EAU | MAR 12

PROJECT ID: 1020-07-74
WITH: N/A

COUNTY: ST. CROIX

ORDER OF SHEETS

Section No. 1 Title
Section No. 2 Typical Sections and Details (Includes Erosion Control Plans)
Section No. 3 Estimate of Quantities

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

HUDSON - MENOMONIE

STH 65 INTERCHANGE
IH 94
ST. CROIX

STATE PROJECT NUMBER
1020-07-74

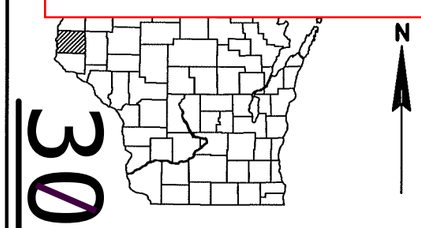
STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1020-07-74	WISC 2011764	1

AS-BUILT PLAN

PROJECT: 7200-05-72 - pgs 61-70 & pgs 357 & 358
PROJECT LEADER: Mohamed Mounir
PRIME CONTRACTOR: Chippewa Concrete Service
BEGIN CONSTRUCTION: 4/18/2012
END CONSTRUCTION: 10/18/2013
FINAL CONSTRUCTION CSTS: $84,285.98
CONTRACT MOD #'S: 1 - $82,338.21
CONTRACT ID: 20120313030

AS-BUILT PLAN

PROJECT: 1020-07-74
PROJECT LEADER: Mohamed Mounir
PRIME CONTRACTOR: Chippewa Concrete Service
BEGIN CONSTRUCTION: 4/18/2012
END CONSTRUCTION: 10/18/2013
FINAL CONSTRUCTION CSTS: $24,762,161.35
CONTRACT MOD #'S: 1-35: $188,103.13
CONTRACT ID: 20120313030

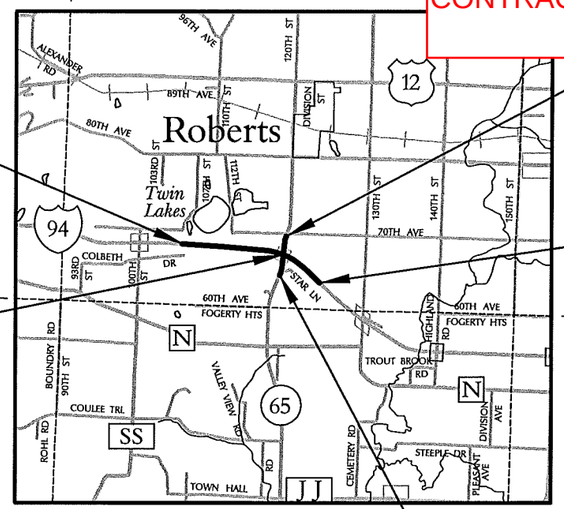


30

N

R-19-W R-18-W

T-29-N



BEGIN PROJECT
STA. 413+00 EB
Y = 337,176.104
X = 553,602.942

STRUCTURE
B-55-0249
R-55-0015
R-55-0016

END PROJECT
STA. 545+00 EB

BEGIN CONSTRUCTION
STA. 33+10

STA. 63+63

T-28-N

R-19-W R-18-W R-17-W

DESIGN DESIGNATION

		IH 94	STH 65
A.A.D.T. (2012)	=	48,600	12,800
A.A.D.T. (2032)	=	69,000	25,000
D.H.V. (2032)	=	6,970	2,780
D.D.	=	60/40	62/38
T.	=	25.6%	8.5%
DESIGN SPEED	=	70 MPH	50 MPH
ESALS	=	51,771,600	9,482,700

CONVENTIONAL SYMBOLS

PLAN
- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE
- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES
- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

LAYOUT
SCALE 0 1 MI.

TOTAL NET LENGTH OF CENTERLINE = 2.500 mi

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), ST. CROIX COUNTY.

KL Engineering
Transportation Municipal Environmental Survey/GIS

WISCONSIN
JON P. BLOMQUIST
34305-006
MENOMONIE, WI
PROFESSIONAL ENGINEER
4-27-11

ORIGINAL PLANS PREPARED BY:

STRAND ASSOCIATES, INC.
ENGINEERS
910 WEST WINGRA DRIVE
MADISON, WISCONSIN 53715
(608) 251-4843

WISCONSIN
NED R. GRADY
E-36610
MADISON
WI
PROFESSIONAL ENGINEER
4/26/11

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	WISDOT
Designer	STRAND ASSOCIATES, INC.
Project Manager	DAVID SOLBERG, PE
Regional Examiner	DANIEL OJIBWAY
Regional Supervisor	PAUL CONLIN, PE
C.O. Examiner	JANE ENGLEBRETSEN

APPROVED FOR THE DEPARTMENT
DATE: 4-28-11 (Signature)

E

2

GENERAL NOTES

MISCELLANEOUS

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) BEARINGS ON THIS PLAN ARE SHOWN TO THE NEAREST SECOND.

DETAILS OF CONSTRUCTION NOT SHOWN SHALL BE IN ACCORDANCE WITH THE PERTINENT REQUIREMENTS OF THE WISDOT STANDARD SPECIFICATIONS.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT THAT ARE NOT SHOWN.

RADIUS DIMENSIONS ON CURB AND GUTTER ARE TO THE FLANGE OF CURB AND GUTTER UNLESS OTHERWISE NOTED.

THE WISCONSIN DEPARTMENT OF TRANSPORTATION SHALL FURNISH THE CONTRACTOR A MONUMENT FOR THE STRUCTURE WHICH SHALL BE SET IN THE STRUCTURE AS DESIGNATED BY THE ENGINEER.

REMOVING ASPHALTIC SURFACE SHALL BE PAID AS ITEMIZED IN THE MISCELLANEOUS QUANTITIES. ALL OTHER ASPHALT REMOVAL WITHIN EXCAVATION LIMITS WILL BE CONSIDERED INCIDENTAL TO EXCAVATION COMMON.

STATIONING, DISTANCES, AND OFFSETS FOR PROPOSED SIGNS SHOWN ON THE PLANS ARE APPROXIMATE AND THE LOCATIONS OF SIGNS ARE TO BE COORDINATED IN THE FIELD WITH THE ENGINEER.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY SHALL BE RESTORED AS DIRECTED BY THE ENGINEER.

SEE SUBSURFACE EXPLORATION REPORTS FOR SOIL BORING INFORMATION. REPORTS ARE AVAILABLE FROM THE WISDOT NW REGION PROJECTS SECTION, DAVE SOLBERG, PROJECT MANAGER, (715) 833-5366.

SEE TRAFFIC CONTROL PLAN FOR TYPICAL SECTIONS OF TEMPORARY ROADWAYS.

REMOVALS

NO TREES OR SHRUBS ARE TO BE REMOVED UNLESS INDICATED FOR REMOVAL BY THE ENGINEER.

MISCELLANEOUS REMOVAL ITEMS REQUIRING RESTORATION OF CONCRETE OR ASPHALTIC CONCRETE DRIVEWAYS, SIDEWALKS OR SIDE STREETS SHALL BE REMOVED TO AN EXISTING JOINT OR SAWED AS DETERMINED BY THE ENGINEER.

GRADING/EROSION CONTROL

SALVAGED TOPSOIL, SEEDING, MULCHING, AND FERTILIZER HAVE BEEN COMPUTED BY A DIRECT MEASUREMENT ON THE CROSS SECTIONS PLUS FIVE (5) FEET BEYOND THE SLOPE INTERCEPT.

FILL AS SHOWN ON THE PLANS PERTAINS TO EMBANKMENT CONSTRUCTED FROM BORROW. THE FACTOR USED FOR EXPANDING THE FILLS TO COMPUTE THE VOLUME OF MATERIAL REQUIRED IS 1.25. ACTUAL EXPANSION FACTOR MAY VARY.

SILT FENCE SHALL BE PLACED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER AND IN PLACE PRIOR TO CONSTRUCTION.

THE EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE AT SUGGESTED LOCATIONS. THE ENGINEER MAY MODIFY LOCATIONS AS NEEDED. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NOT LONGER NEEDED.

EXCAVATION BELOW SUBGRADE (EBS) IS NOT USED TO BALANCE YARDAGE, BUT IS MEASURED AND PAID FOR AS EXCAVATION COMMON. THE LOCATION FOR EBS WILL BE DETERMINED BY THE ENGINEER.

DISTURBED AREAS WITHIN THE RIGHT OF WAY SHALL BE RESTORED AS DIRECTED BY THE ENGINEER.

EROSION CONTROL DETAILS ARE SHOWN ON SEPARATE DETAIL SHEET (FOR DNR REVIEW).

EROSION CONTROL DEVICES SHALL BE PLACED IN SEQUENCE WITH CONSTRUCTION OPERATIONS OR AS DETERMINED BY THE ENGINEER.

STORM DRAINAGE

ALL CONCRETE CULVERT PIPES SHALL HAVE JOINT TIES INSTALLED ON THE LAST TWO PIPE JOINTS AND THE ENDWALL JOINT AT BOTH THE INLET AND DISCHARGE ENDS.

EXISTING PIPE CULVERT SIZES AND CONCRETE BOX CULVERT SIZES SHOWN ARE APPROXIMATE AND THE CONTRACTOR WILL BASE ITS BID ON THE ACTUAL FIELD CONDITIONS.

CROSS DRAIN PIPE INVERT ELEVATIONS AS SHOWN ON THE CROSS SECTIONS MAY BE ADJUSTED BY THE ENGINEER TO FIT EXISTING FIELD CONDITIONS.

PAVING

A SAWED JOINT WILL BE REQUIRED WHERE NEW PAVEMENT IS TO MEET AN EXISTING PAVED SURFACE.

PAVING (CONT'D)

4-INCH HMA PAVEMENT TYPE E-0.3 FOR THE SHOULDER SHALL BE CONSTRUCTED WITH A 2-INCH UPPER LAYER AND 2-INCH LOWER LAYER. USE ASPHALTIC MATERIAL PG58-34 FOR BOTH LAYERS.

6-INCH HMA PAVEMENT TYPE E-10 FOR THE SHOULDER SHALL BE CONSTRUCTED WITH A 2-INCH UPPER LAYER AND 4-INCH LOWER LAYER. USE ASPHALTIC MATERIAL PG58-34 FOR THE LOWER LAYER AND PG64-22 FOR THE TOP LAYER

5-INCH HMA PAVEMENT TYPE E-3 WILL BE REQUIRED FOR STAR LANE. THE PAVEMENT WILL BE CONSTRUCTED WITH A 2-INCH UPPER LAYER AND A 3-INCH LOWER LAYER. USE ASPHALTIC MATERIAL 58-34 FOR BOTH LAYERS.

4.5-INCH ASPHALTIC SURFACE SPECIAL WILL BE REQUIRED FOR THE OVERLAY OF IH 94. THE PAVEMENT WILL BE CONSTRUCTED WITH A 2-INCH UPPER LAYER AND A 2.5-INCH LOWER LAYER.

ABBREVIATIONS

ABUT.	ABUTMENT
A.A.D.T.	ANNUAL AVERAGE DAILY TRAFFIC
AEWCP	APRON ENDWALL CULVERT PIPE
AEWPRC	APRON ENDWALL CULVERT PIPE REINFORCED CONCRETE
AEWCPRCHE	APRON ENDWALL CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
AEWCPS	APRON ENDWALL CULVERT PIPE SALVAGED
AH	AHEAD
BAD	BASE AGGREGATE DENSE
B.F.	BACK FACE
BK	BACK
B.M.	BENCH MARK
B.O.C.	BACK OF CURB
CMCP	CORRUGATED METAL CULVERT PIPE
CPCS	CULVERT PIPE CORRUGATED STEEL
C.P.R.C.	CULVERT PIPE REINFORCED CONCRETE
CPRCHE	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
CPT	CULVERT PIPE TEMPORARY
CTR.	CENTER
C.L.	CENTERLINE
D	DEGREE OF CURVE
D.D.	DIRECTIONAL DISTRIBUTION
D.H.V.	DESIGN HOURLY VOLUME
DIA.	DIAMETER
DIM.	DIMENSION
EL. OR ELEV.	ELEVATION
EXC.	EXCAVATION
EXIST.	EXISTING
F.F.	FRONT FACE
FS	GUARD RAIL
G.R.	FULL SUPERELEVATION
HP	HIGH POINT
IE	INVERT ELEVATION
L	LENGTH OF CURVE
L.H.F	LEFT HAND FORWARD
LP	LOW POINT
LT.	LEFT
MAX.	MAXIMUM
MIN.	MINIMUM
NORM.	NORMAL
O.H.	OVERHEAD POWER LINE
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVE
PI	POINT OF INTERSECTION
P.L.	PROPERTY LINE
P.O.L.	POINT ON LINE
POT	POINT ON TANGENT
PRC	POINT OF REVERSE CURVATURE
P.D.	PAVED DITCH
PT	POINT OF TANGENCY
RAD	RADIUS
RCCP	REINFORCED CONCRETE CULVERT PIPE
REQ'D.	REQUIRED
RDWY.	ROADWAY
R.O.	RUN OUT
R.H.F.	RIGHT HAND FORWARD
RT.	RIGHT
R/W	RIGHT OF WAY
SDD	STANDARD DETAIL DRAWING
S.E.	SUPERELEVATION
SPA.	SPACE
STA.	STATION
SYM.	SYMMETRICAL
T.	PERCENT TRUCKS
TLE	TEMPORARY LIMITED EASEMENT
TRANS	TRANSITION
TYP.	TYPICAL
V.	DESIGN SPEED
VPC	VERTICAL POINT OF CURVE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY

DIGGERS HOTLINE

Call 811 3 Work Days Before You Dig or Toll Free (800) 242-8511
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com

UTILITIES

UTILITY OR MUNICIPALITY	ADDRESS	CONTACT	UTILITY TYPE
*AT&T LEGACY	P.O. BOX 244 LAKE MILLS, WI 53551 PH: (608) 628-0575 EMAIL: jmc140@frontier.com	WILLIAM KOENIG	FIBER OPTIC
*AT&T WI	304 SOUTH DEWEY STREET EAU CLAIRE, WI 54701 PH: (715) 839-5565 EMAIL: rp4514@att.com	RICK PODOLAK	FIBER OPTIC
*VILLAGE OF ROBERTS	107 E. MAPLE STREET ROBERTS, WI 54023 PH: (715) 749-3126	JOHN BOND	WATER
*BALDWIN TELECOM, INC.	930 MAPLE STREET BALDWIN, WI 54002 PH: (715) 684-3346 EMAIL: ken.carlsrud@baldwin-telecom.net	KEN CARLSRUD	COMMUNICATION LINE
*MIDWEST NATURAL GAS INCORPORATED	611 SHAY STREET SOMERSET, WI 54025 PH: (715) 247-5279 EMAIL: mngjustinjacobs@gmail.com	JUSTIN JACOBS	HIGH PRESSURE GAS
*ST. CROIX ELECTRIC COOPERATIVE	1925 RIDGEWAY STREET HAMMOND, WI 54016 PH: (715) 796-7000 EMAIL: robdoo@scecnet.net	ROB DOOLEY	ELECTRICITY
LEVEL 3	715 NORTH 2ND STREET MINNEAPOLIS, MN 55401 PH (OFFICE): (612) 605-5547 PH (MOBILE): (612) 805-9479 EMAIL: brad.morseth@level3.com	BRAD MORSETH	FIBER OPTIC
*QWEST COMMUNICATIONS	13057 SOUTH MONITOR AVENUE PALOS HEIGHTS, IL 60463 PH: (708) 837-7927 EMAIL: kevin.huff@qwest.com	KEVIN HUFF	FIBER OPTIC
WISDOT	NORTHWEST REGION-EAU CLAIRE EAU CLAIRE, WI 54701 ELECTRICAL UNIT 5009 USH 53 SOUTH (715) 839-3787	EAU CLAIRE ELECTRICIANS	TRAFFIC SIGNALS AND LIGHTING
WISDOT	433 WEST ST. PAUL AVENUE SUITE 300 MILWAUKEE, WI 53203 PH: (414) 227-2148 EMAIL: donald.schell@dot.wi.gov	DONALD SCHELL	FIBER OPTIC/ITS

* MEMBER OF DIGGERS HOTLINE

REGION CONTACT

DAVID SOLBERG, PE
718 WEST CLAIREMONT AVENUE
EAU CLAIRE, WI 54701
PH: (715) 833-5366
EMAIL: david.solberg@dot.wi.gov

DESIGN CONTACT

NED GRADY
STRAND ASSOCIATES
910 WEST WINGRA DRIVE
MADISON, WI 53715
PH: (608) 251-4843
EMAIL: ned.grady@strand.com

ENVIRONMENTAL COORDINATOR

NICK SCHAFF
WISCONSIN DEPARTMENT OF NATURAL RESOURCES
1300 WEST CLAIREMONT AVENUE
EAU CLAIRE, WI 54702
PH: (715) 839-1609
EMAIL: nicholas.schaff@wisconsin.gov

DESIGNER NOTES

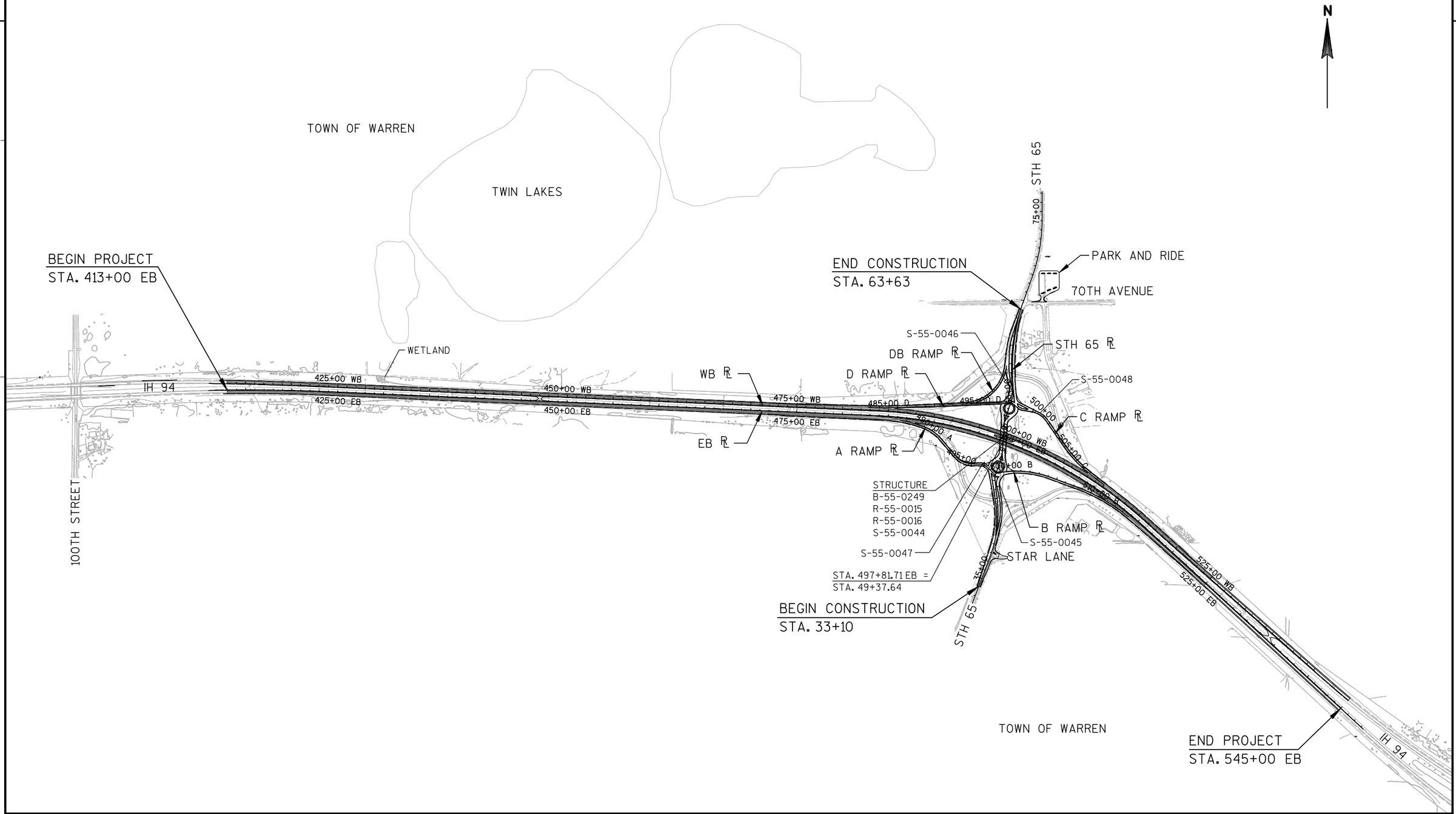
DESIGN, PLANS, AND SPECIFICATIONS FOR CONSTRUCTION STAGING, LIGHTING, PARK AND RIDE, AND FOR STH 65 (NOT INCLUDING ROUNDABOUTS) PROVIDED BY KL ENGINEERING.

DESIGN, PLANS, AND SPECIFICATIONS FOR ITS PROVIDED BY WISDOT, STATE TRAFFIC OPERATIONS CENTER (STOC).

ORDER OF SECTION 2 SHEETS

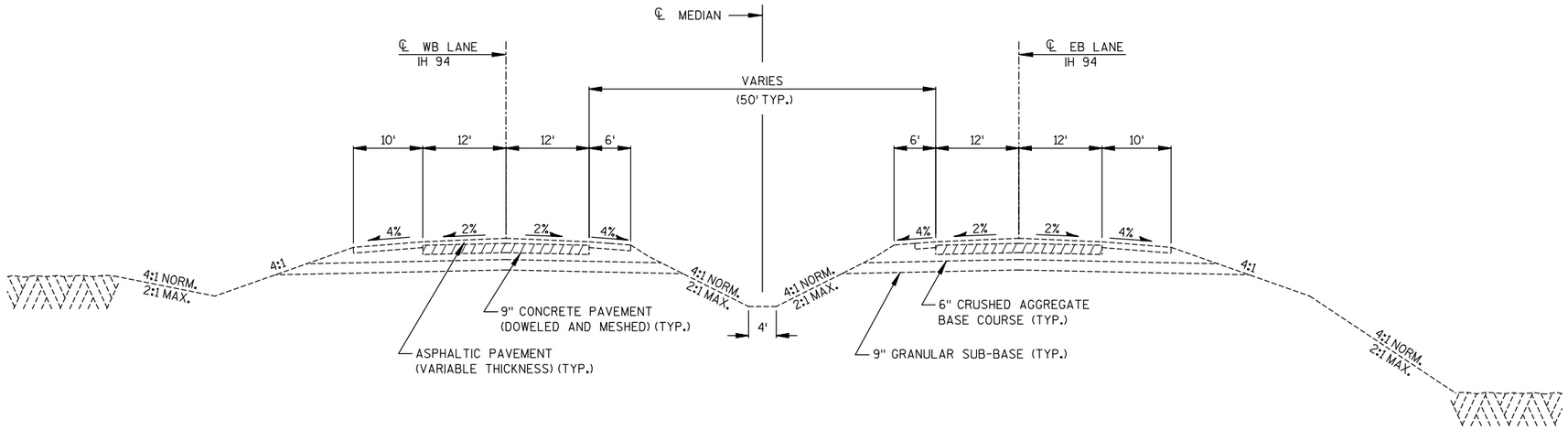
GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
INTERSECTION DETAILS
FREEWAY MANAGEMENT SYSTEM
EROSION CONTROL
STORM SEWER
SIGN REMOVALS
PERMANENT SIGNING
LIGHTING
TEMPORARY SIGNALS
PAVEMENT MARKING
TRAFFIC CONTROL
ALIGNMENT DETAILS

2

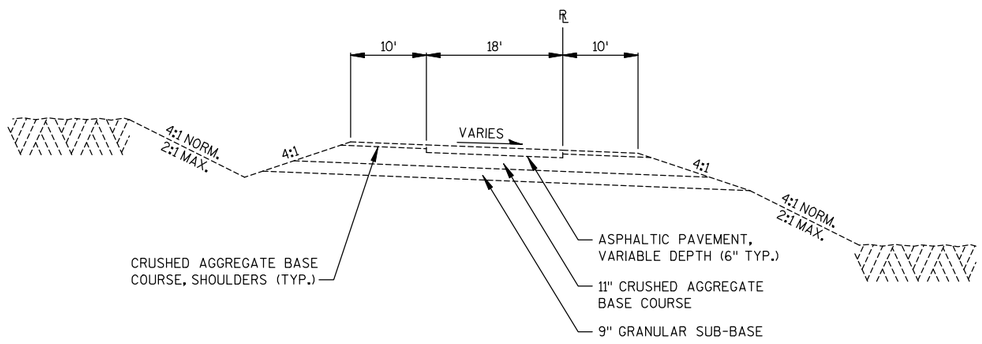


PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PROJECT OVERVIEW	SHEET 3	E

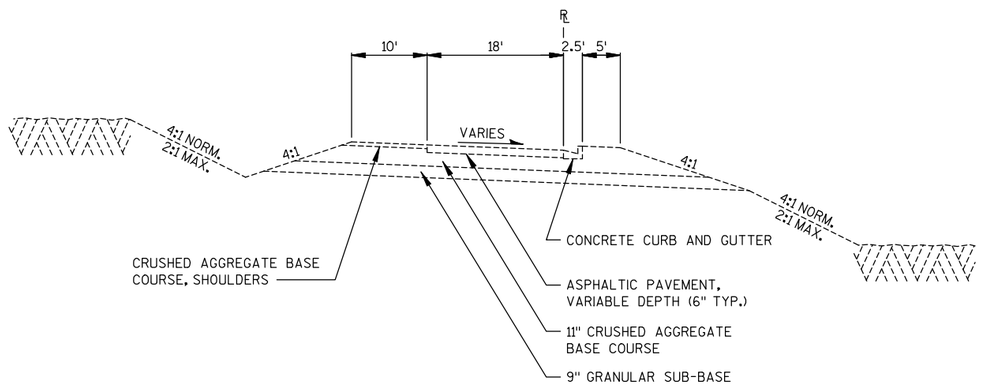
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EXISTING IH 94 TYPICAL SECTION

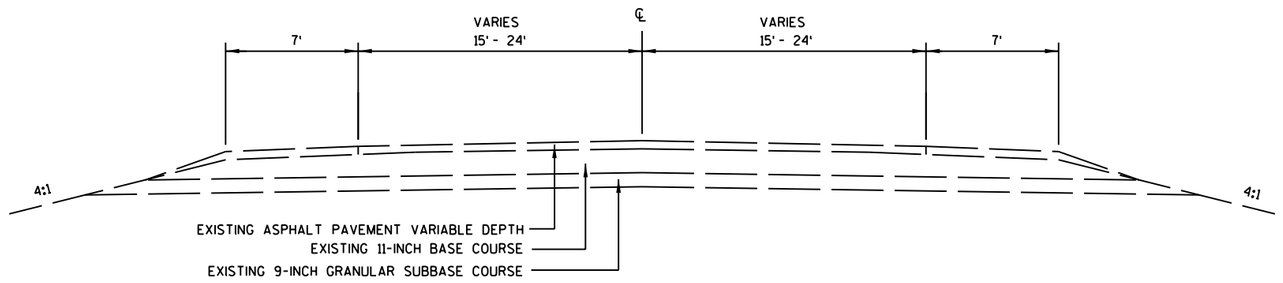


EXISTING RAMP TYPICAL SECTION



EXISTING RAMP TYPICAL SECTION - WITH CURB AND GUTTER

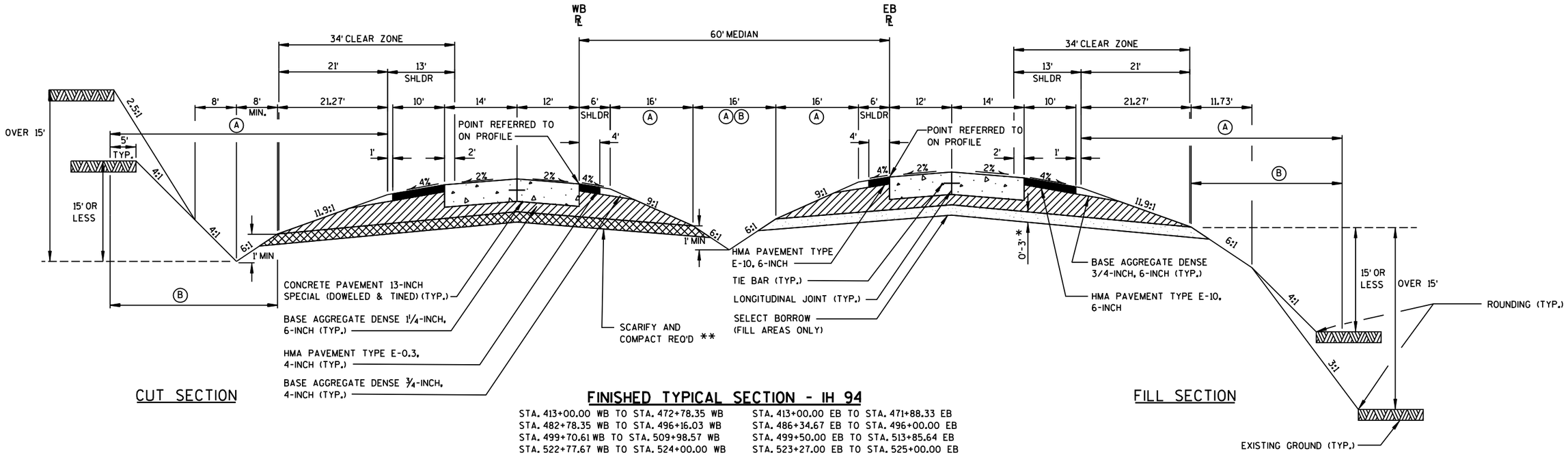
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EXISTING TYPICAL SECTION STH 65

STA 33+10 - STA 64+00

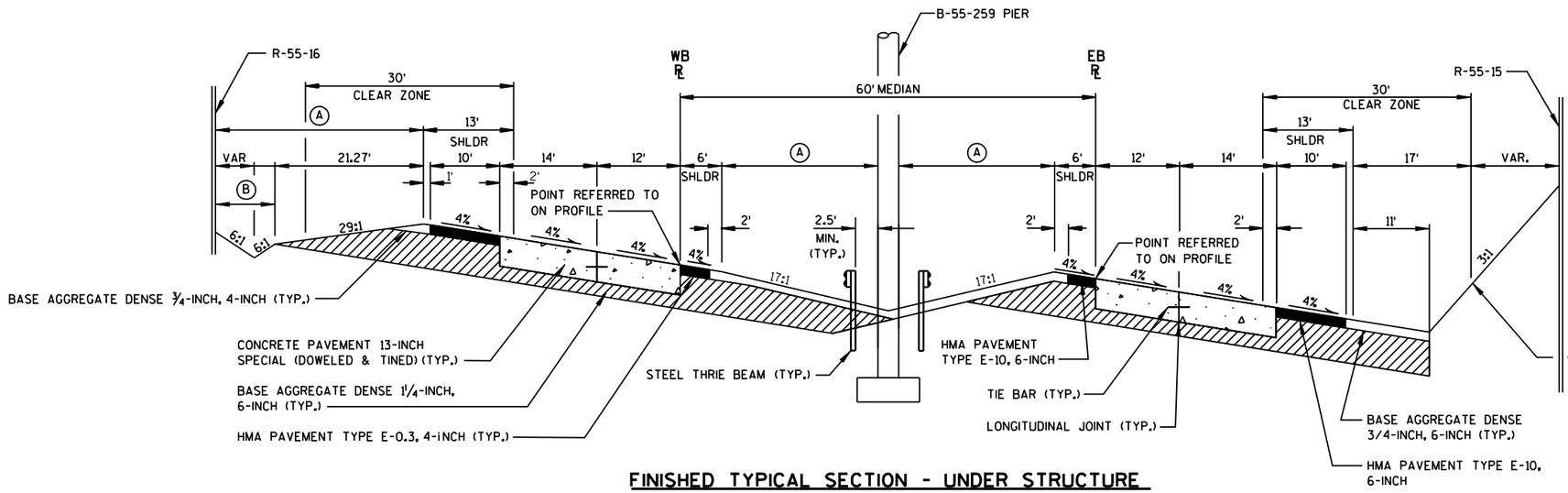
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TYPICAL SECTIONS	SHEET 5	E



FINISHED TYPICAL SECTION - IH 94

STA. 413+00.00 WB TO STA. 472+78.35 WB
STA. 482+78.35 WB TO STA. 496+16.03 WB
STA. 499+70.61 WB TO STA. 509+98.57 WB
STA. 522+77.67 WB TO STA. 524+00.00 WB

STA. 413+00.00 EB TO STA. 471+88.33 EB
STA. 486+34.67 EB TO STA. 496+00.00 EB
STA. 499+50.00 EB TO STA. 513+85.64 EB
STA. 523+27.00 EB TO STA. 525+00.00 EB



FINISHED TYPICAL SECTION - UNDER STRUCTURE

STA. 496+16.03 WB TO STA. 499+70.61 WB

STA. 496+00.00 EB TO STA. 499+50.00 EB

LEGEND

(A) SEEDING TEMPORARY, SEEDING MIXTURE NO. 30, AND FERTILIZER TYPE B REQ'D

(B) SALVAGED TOPSOIL AND MULCHING REQ'D

* PLACE SELECT BORROW IN THE UPPER THREE FEET OF ALL SUBGRADE FILLS.

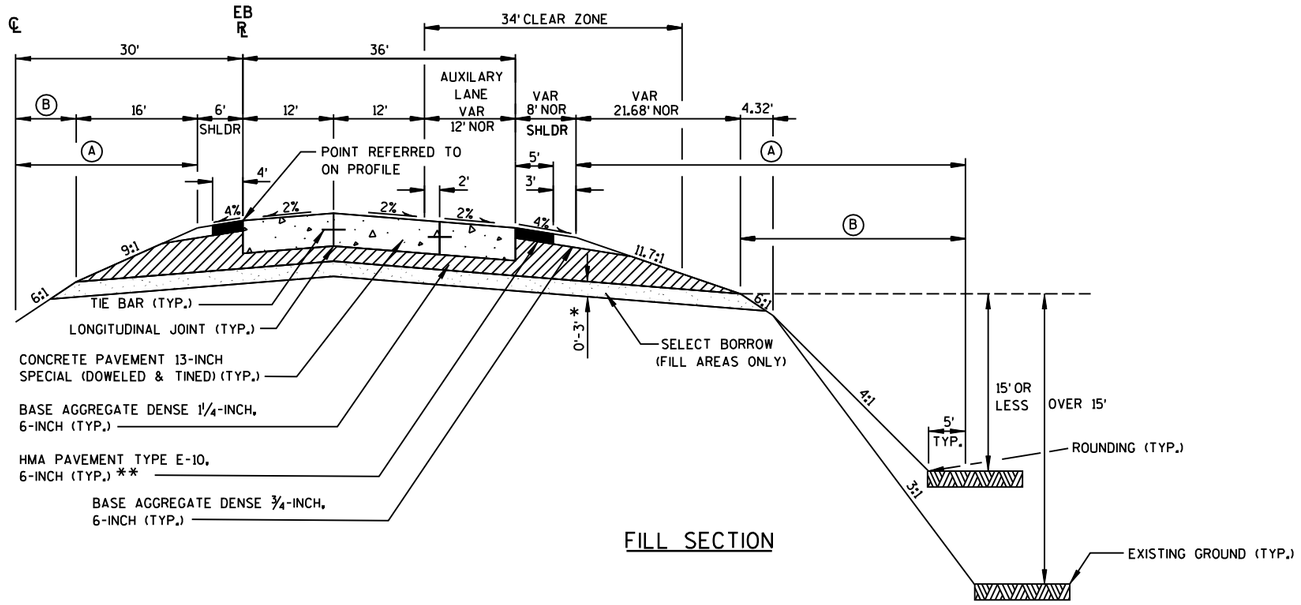
** IN AREAS OF EXCAVATION ROCK, SCARIFY AND COMPACT THE SUBGRADE IN THE ROCK CUT AREA TO A DEPTH OF APPROXIMATELY TWO FEET BELOW THE EARTH SUBGRADE LINE BETWEEN THE LIMITS OF THE SHOULDER SLOPES.

PAVEMENT DEPTH "D"	CLEAR COVER "C"	MAX. TIE BAR SPA. "S"	
		PAVEMENT WIDTH	
		24' OR 26'	>= 30'
13"	6.25" +/- 1"	21"	21"

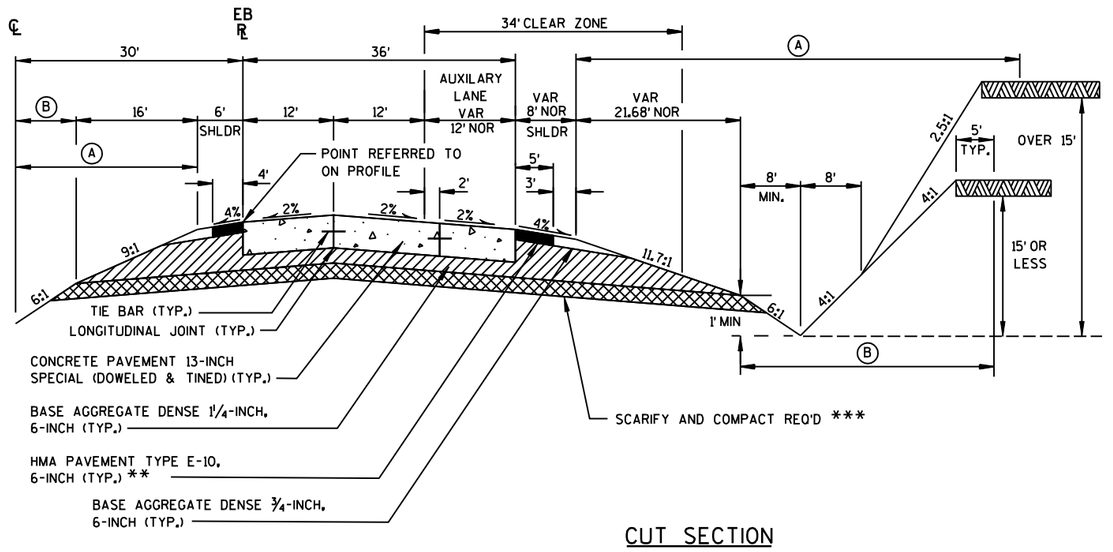
SEE SDD "CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES" FOR ADDITIONAL INFORMATION.

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	IH 94 TYPICAL SECTION	SHEET 6	E

2



FILL SECTION



CUT SECTION

LEGEND

(A) SEEDING TEMPORARY, SEEDING MIXTURE NO. 30, AND FERTILIZER TYPE B REQ'D

(B) SALVAGED TOPSOIL AND MULCHING REQ'D

* PLACE SELECT BORROW IN THE UPPER THREE FEET OF ALL SUBGRADE FILLS.

** HMA PAVEMENT TYPE E-0.3, 4-INCH REQUIRED FOR LEFT AND RIGHT SHOULDER OF WESTBOUND IH 94.

*** IN AREAS OF EXCAVATION ROCK, SCARIFY AND COMPACT THE SUBGRADE IN THE ROCK CUT AREA TO A DEPTH OF APPROXIMATELY TWO FEET BELOW THE EARTH SUBGRADE LINE BETWEEN THE LIMITS OF THE SHOULDER SLOPES.

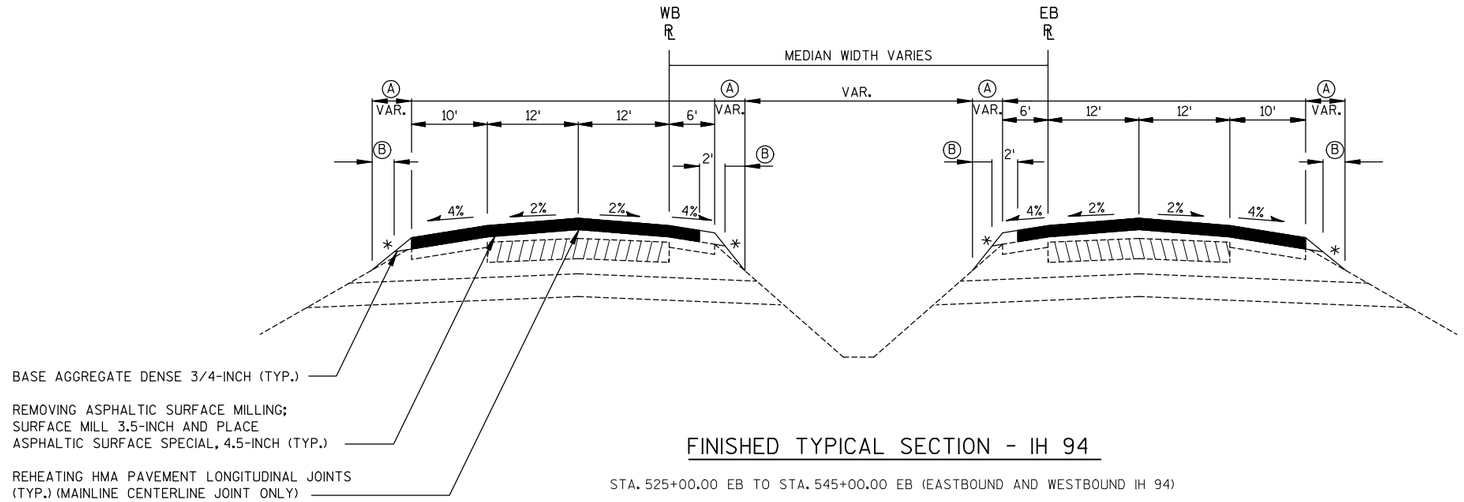
PAVEMENT DEPTH "D"	CLEAR COVER "C"	MAX. TIE BAR SPA. "S"	
		PAVEMENT WIDTH	
		24' OR 26'	>= 30'
13"	6.25" +/- 1"	21"	21"

SEE SDD "CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES" FOR ADDITIONAL INFORMATION.

FINISHED TYPICAL SECTION WITH AUXILIARY LANE- IH 94

STA. 471+88.33 EB TO STA. 486+34.67 EB
STA. 513+85.64 EB TO STA. 523+27.00 EB
STA. 472+78.35 WB TO STA. 482+78.35 WB (MIRROR IMAGE)
STA. 509+98.57 WB TO STA. 522+77.67 WB (MIRROR IMAGE)

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	IH 94 TYPICAL SECTION	SHEET 7	E



FINISHED TYPICAL SECTION - IH 94

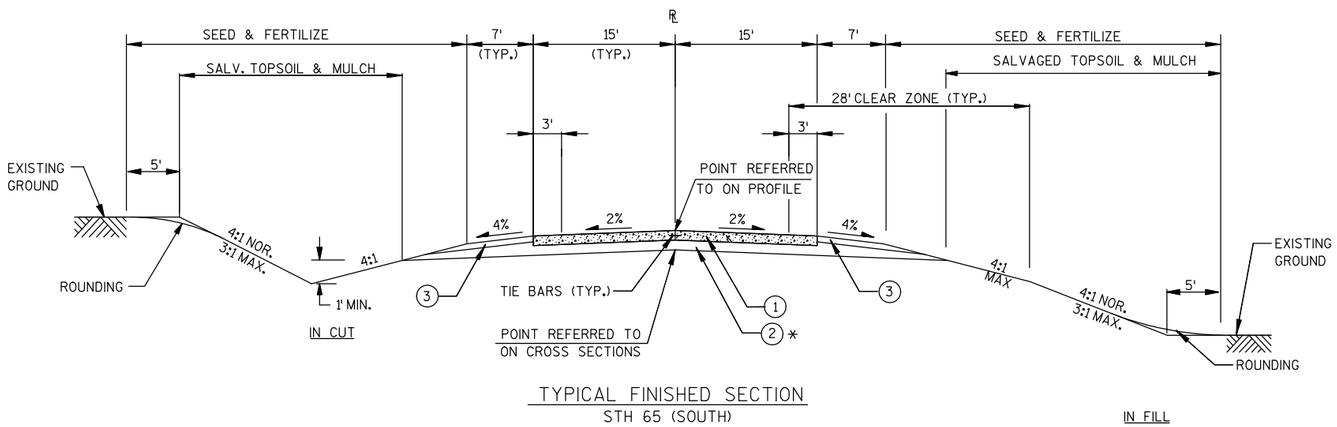
STA. 525+00.00 EB TO STA. 545+00.00 EB (EASTBOUND AND WESTBOUND IH 94)

LEGEND

(A) SEEDING TEMPORARY, SEEDING MIXTURE NO. 30, AND FERTILIZER TYPE B REQ'D

(B) SALVAGED TOPSOIL AND MULCHING REQ'D

* 4:1 OR FLATTER SIDESLOPE.



TYPICAL FINISHED SECTION

STH 65 (SOUTH)
STA 33+10 - STA 36+00

LEGEND

(1)	CONCRETE PAVEMENT 8-INCH SPECIAL (DOWELED AND TINED)
(2)	6" BASE AGGREGATE DENSE 1¼-INCH
(3)	4" BASE AGGREGATE DENSE 3/4-INCH
(4)	CONCRETE CURB & GUTTER 30-INCH TYPE A
(5)	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A

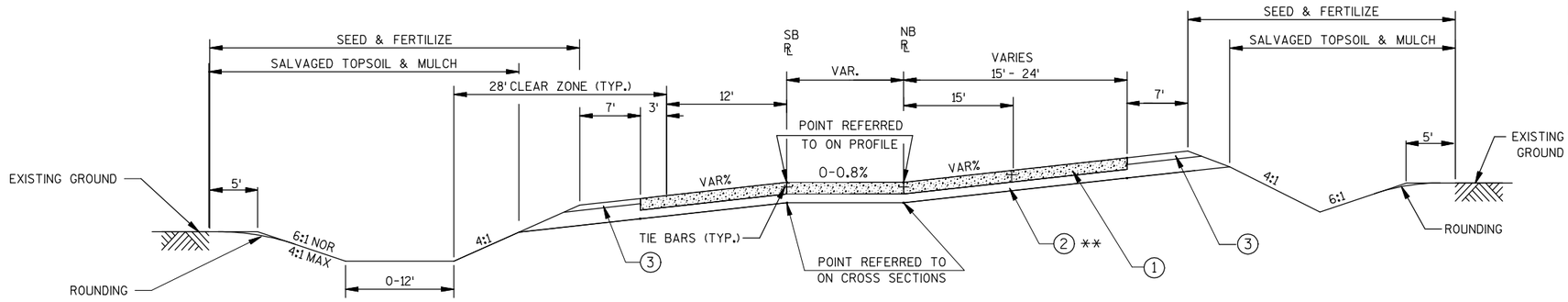
* PLACE SELECT BORROW IN THE UPPER THREE FEET OF ALL SUBGRADE FILELS

2

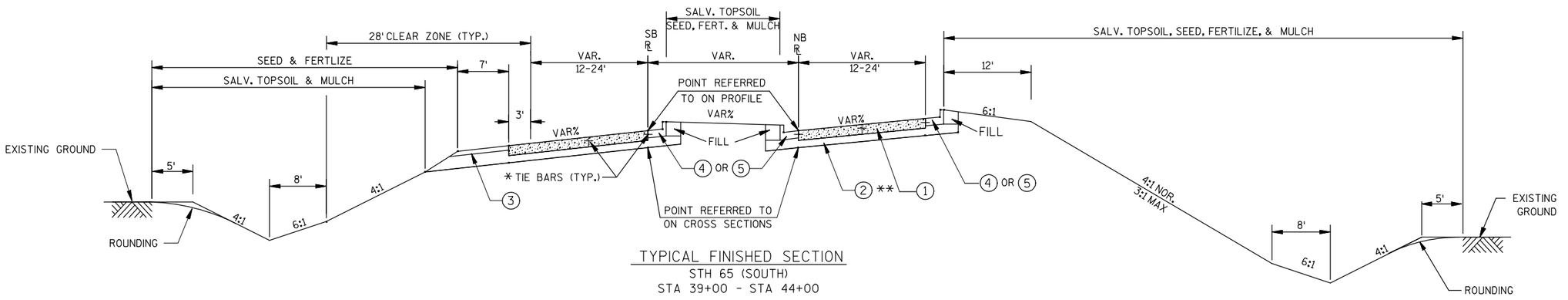
LEGEND

(1)	CONCRETE PAVEMENT 8-INCH SPECIAL (DOWELED AND TINED)
(2)	6" BASE AGGREGATE DENSE 1¼-INCH
(3)	4" BASE AGGREGATE DENSE 3/4-INCH
(4)	CONCRETE CURB & GUTTER 30-INCH TYPE A
(5)	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A

** PLACE SELECT BORROW IN THE UPPER THREE FEET OF ALL SUBGRADE FILLS



TYPICAL FINISHED SECTION
STH 65 (SOUTH)
STA 36+00 - STA 39+00



TYPICAL FINISHED SECTION
STH 65 (SOUTH)
STA 39+00 - STA 44+00

*TIE BARS REQ'D WHERE LANE WIDTH EXCEEDS 15'

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TYPICAL SECTIONS: STH 65	SHEET 9	E

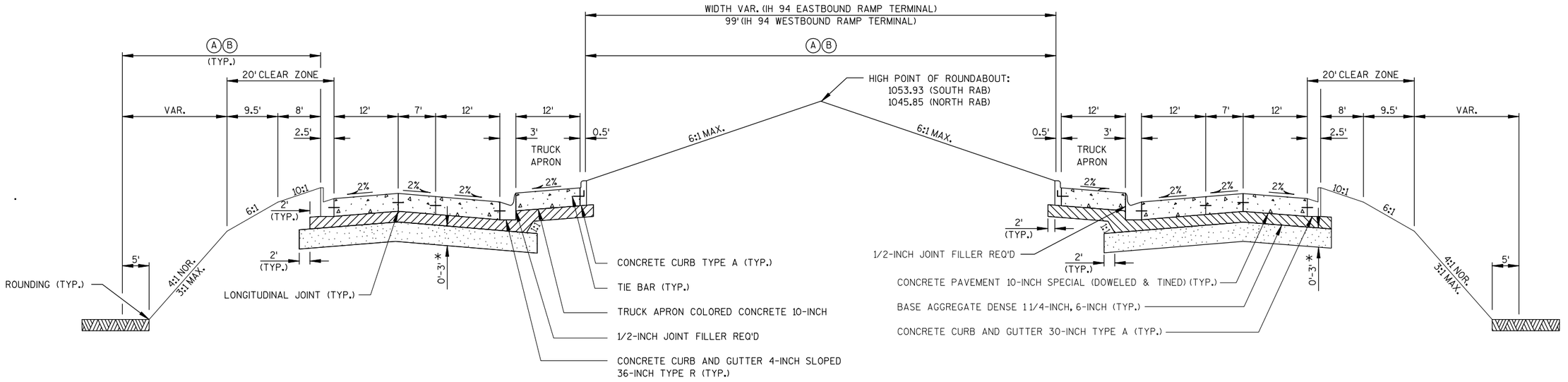
2

LEGEND

(A) SEEDING TEMPORARY , SEEDING MIXTURE NO. 30, AND FERTILIZER TYPE B REQ'D

(B) SALVAGED TOPSOIL AND MULCH REQ'D

* PLACE SELECT BORROW IN THE UPPER THREE FEET OF ALL SUBGRADE FILLS.



FINISHED TYPICAL SECTION - STH 65 (ROUNDABOUT SECTION)

STA. 44+00 TO STA. 55+11.46

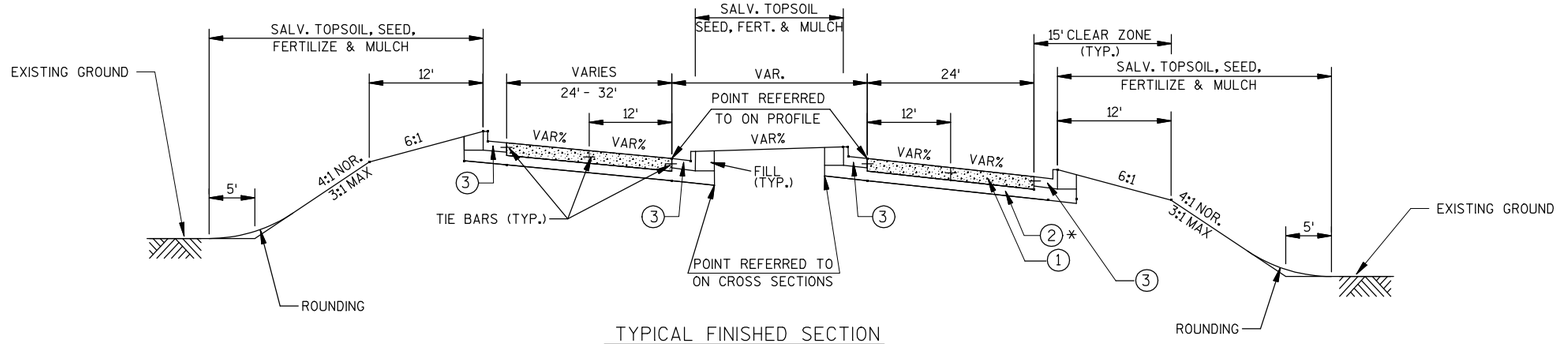
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	IH 94 TYPICAL SECTION - STH 65	SHEET 10	E

2

LEGEND

(1)	CONCRETE PAVEMENT 10-INCH SPECIAL (DOWELED AND TINED)
(2)	6" BASE AGGREGATE DENSE 1¼-INCH
(3)	CONCRETE CURB & GUTTER 30-INCH TYPE A

* PLACE SELECT BORROW IN THE UPPER THREE FEET OF ALL SUBGRADE FILLS

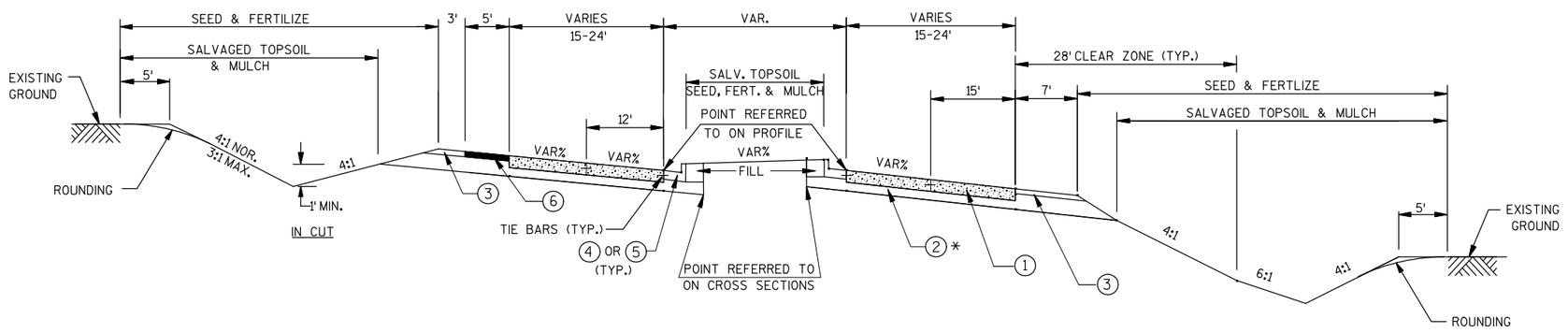


TYPICAL FINISHED SECTION
STH 65 (NORTH)
STA 55+11.46 - STA 56+86

LEGEND

(1)	CONCRETE PAVEMENT 10-INCH SPECIAL (DOWELED AND TINED)
(2)	6" BASE AGGREGATE DENSE 1¼-INCH
(3)	4" BASE AGGREGATE DENSE 3/4-INCH
(4)	CONCRETE CURB & GUTTER 30-INCH TYPE A
(5)	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
(6)	4" HMA PAVEMENT TYPE E-0.3

* PLACE SELECT BORROW IN THE UPPER THREE FEET OF ALL SUBGRADE FILLS

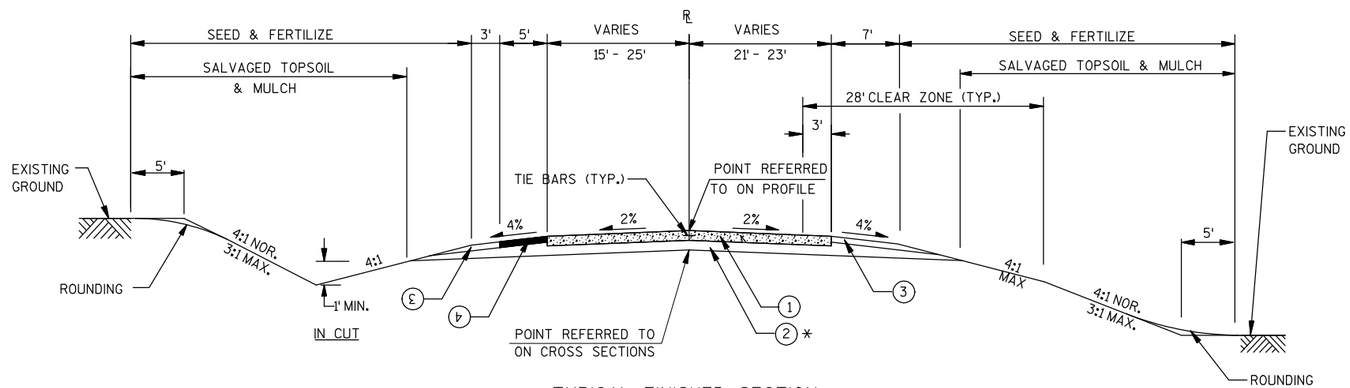


TYPICAL FINISHED SECTION
STH 65 (NORTH)
STA 56+86 - STA 62+47

LEGEND

(1)	CONCRETE PAVEMENT 10-INCH SPECIAL (DOWELED AND TINED)
(2)	6" BASE AGGREGATE DENSE 1¼-INCH
(3)	4" BASE AGGREGATE DENSE 3/4-INCH
(4)	4" HMA PAVEMENT TYPE E-0.3

* PLACE SELECT BORROW IN THE UPPER THREE FEET OF ALL SUBGRADE FILLS



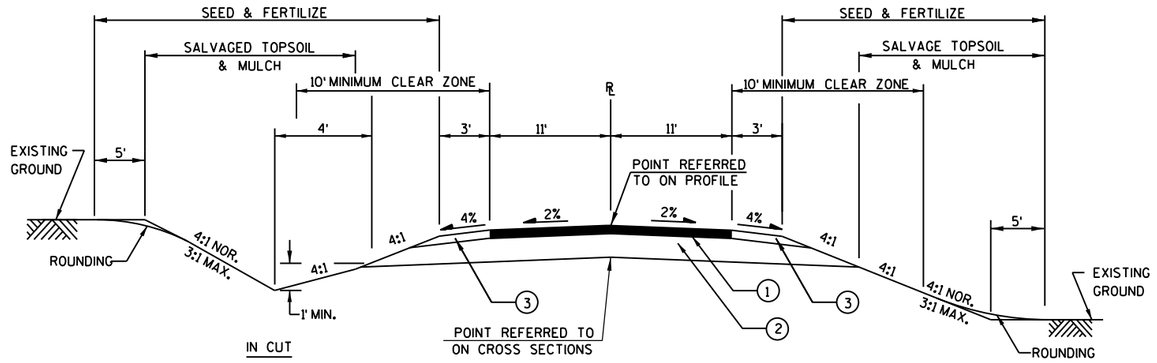
TYPICAL FINISHED SECTION
STH 65 (NORTH)
STA 62+47 - STA 64+00

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TYPICAL SECTIONS: STH 65	SHEET 11	E

2

LEGEND

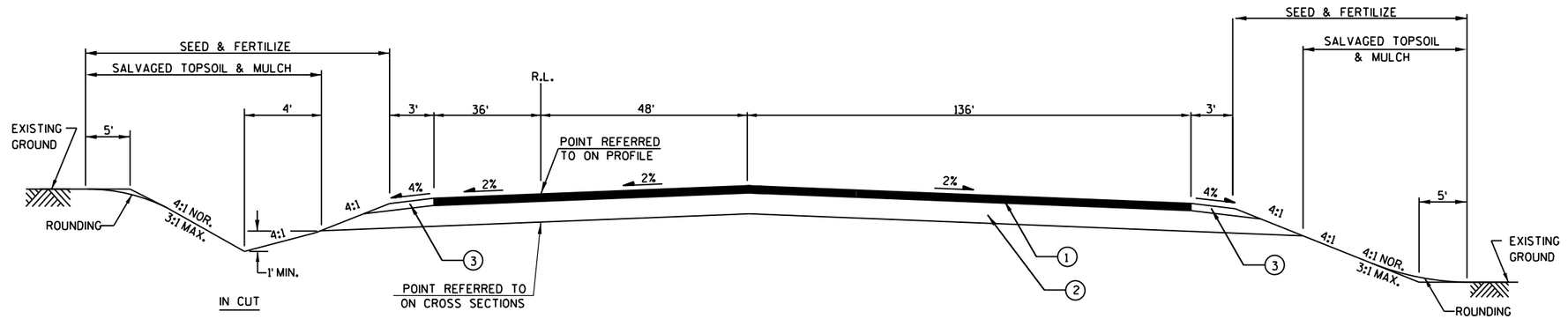
(1)	5" HMA PAVEMENT TYPE E-3
(2)	8" BASE AGGREGATE DENSE 1¼-INCH
(3)	5" BASE AGGREGATE DENSE 3/4-INCH, SHOULDERS



TYPICAL FINISHED SECTION
STAR LANE

LEGEND

(1)	5" ASPHALTIC SURFACE
(2)	12" BASE AGGREGATE DENSE 1¼-INCH
(3)	5" BASE AGGREGATE DENSE 3/4-INCH, SHOULDERS



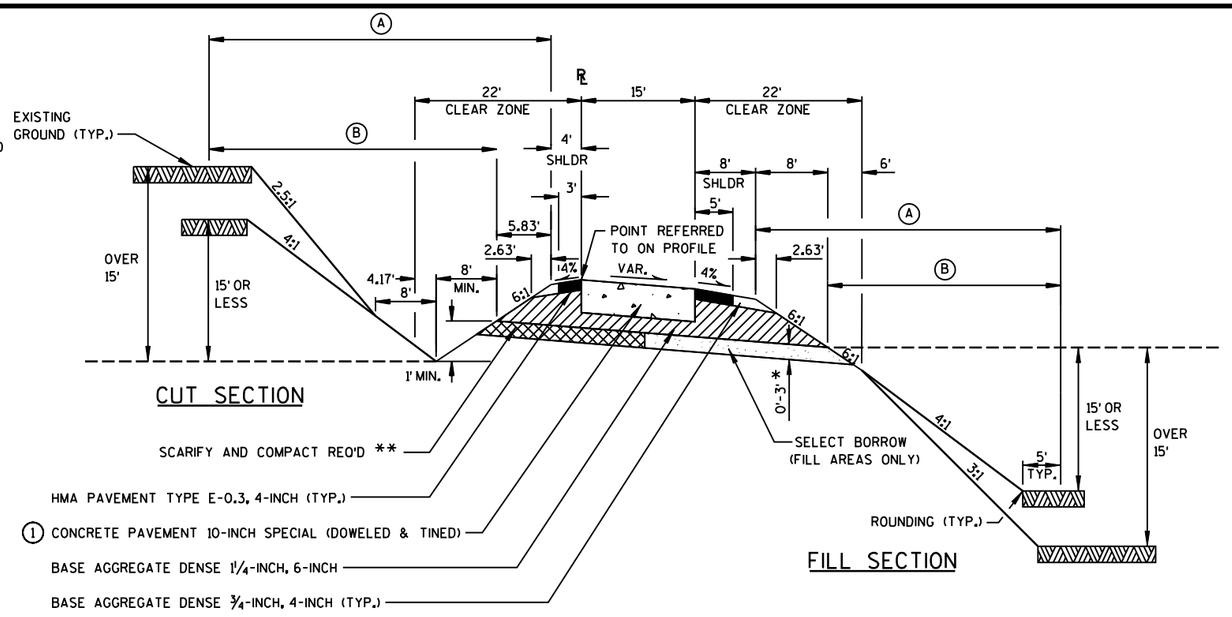
TYPICAL FINISHED SECTION
PARK AND RIDE LOT

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TYPICAL SECTIONS: PARK AND RIDE, STAR LANE	SHEET 12	E

2

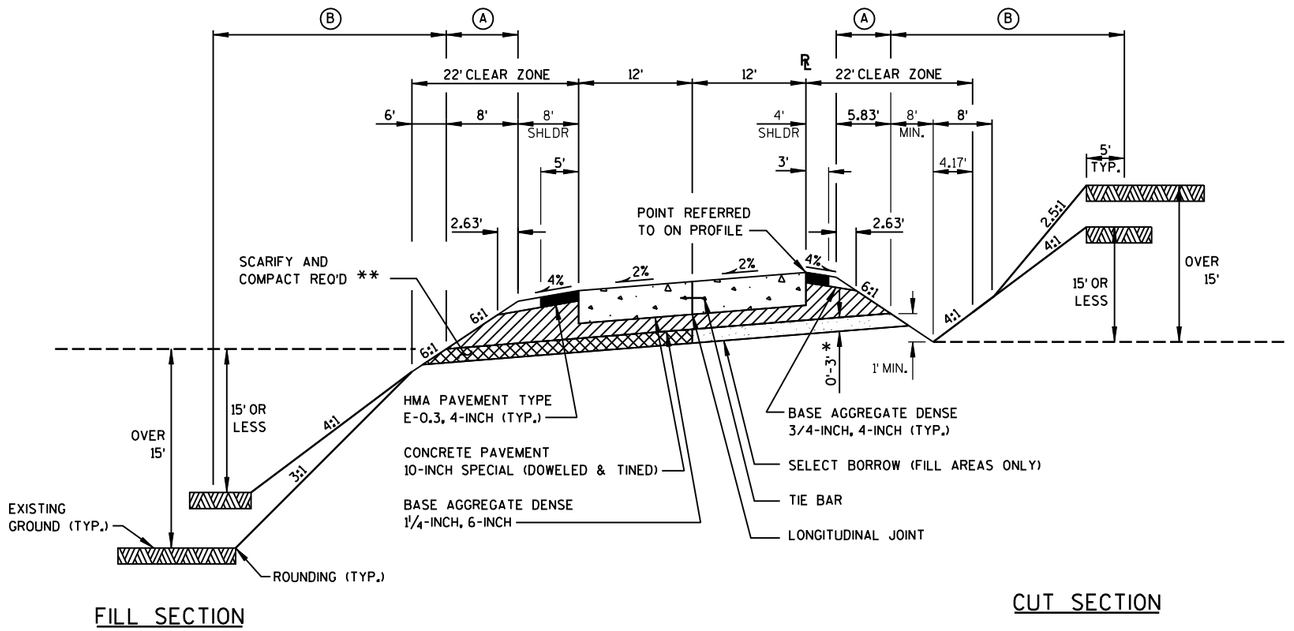
2

① CONCRETE PAVEMENT 13-INCH SPECIAL (DOWELED AND TINED) REQ'D
STA. 486+34.67 A TO STA. 488+00.00 A
STA. 510+70.26 B TO STA. 513+85.64 B
STA. 507+81.60 C TO STA. 509+98.57 C
STA. 482+78.35 D TO STA. 485+65.14 D



FINISHED TYPICAL SECTION - SINGLE LANE RAMP

STA. 486+34.67 A TO STA. 493+81.33 A
STA. 500+54.26 B TO STA. 513+85.64 B
STA. 498+80.00 C TO STA. 509+98.57 C (MIRROR IMAGE)
STA. 482+78.35 D TO STA. 485+99.75 D (MIRROR IMAGE)
STA. 493+74.84 D TO STA. 496+31.49 D (MIRROR IMAGE)
STA. 493+74.84 DB TO STA. 499+99.16 DB (MIRROR IMAGE)



FINISHED TYPICAL SECTION - DUAL LANE RAMP

STA. 486+99.60 D TO STA. 493+74.84 D

LEGEND

(A) SEEDING TEMPORARY, SEEDING MIXTURE NO. 30, AND FERTILIZER TYPE B REQ'D

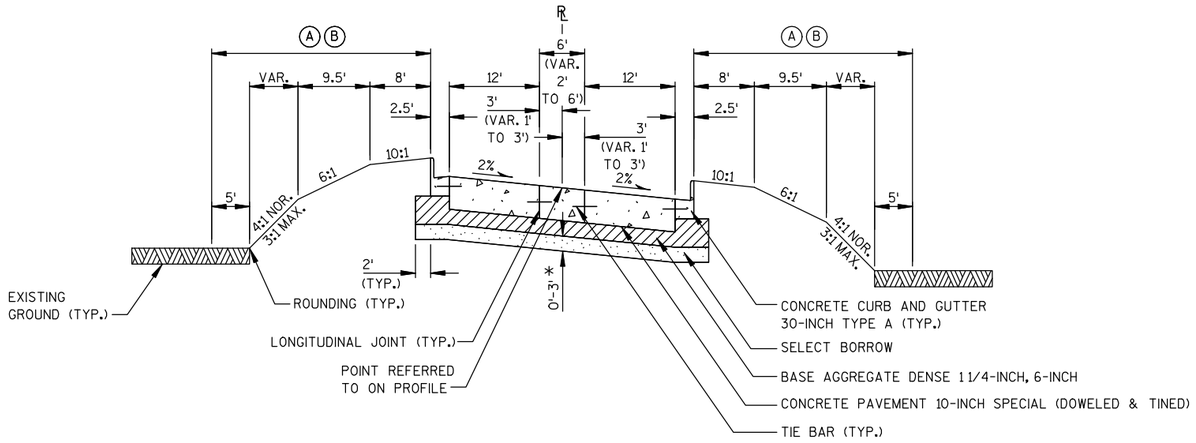
(B) SALVAGED TOPSOIL AND MULCHING REQ'D

* PLACE SELECT BORROW IN THE UPPER THREE FEET OF ALL SUBGRADE FILLS.

** IN AREAS OF EXCAVATION ROCK, SCARIFY AND COMPACT THE SUBGRADE IN THE ROCK CUT AREA TO A DEPTH OF APPROXIMATELY TWO FEET BELOW THE EARTH SUBGRADE LINE BETWEEN THE LIMITS OF THE SHOULDER SLOPES.

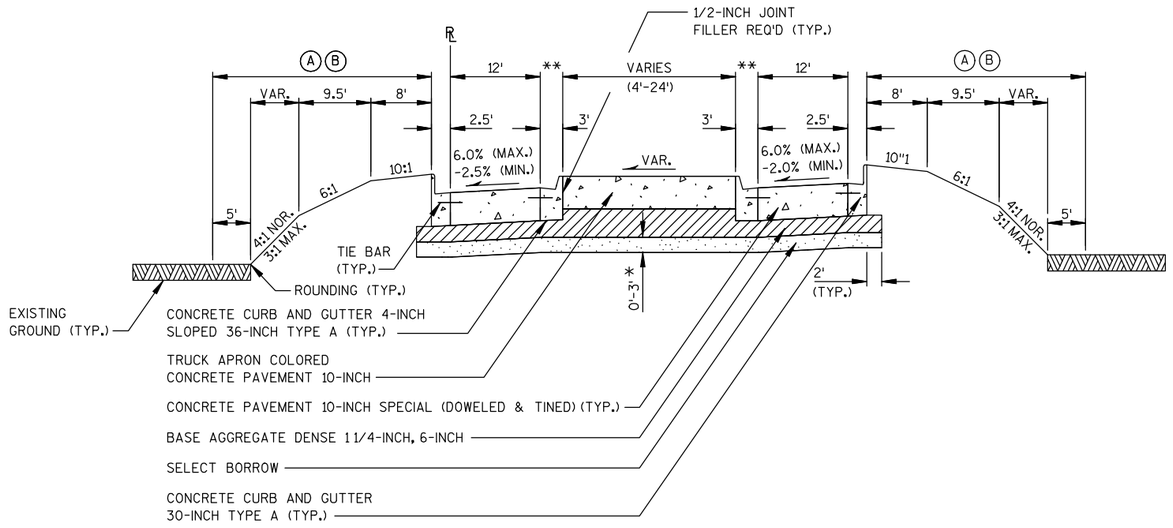
PAVEMENT DEPTH "D"	CLEAR COVER "C"	MAX. TIE BAR SPA. "S"	
		PAVEMENT WIDTH	
		24' OR 26'	>= 30'
13"	6.25" +/- 1"	21"	21"

SEE SDD "CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES" FOR ADDITIONAL INFORMATION.



FINISHED TYPICAL SECTION - DUAL LANE RAMP WITH CURB AND GUTTER

STA. 493+81.33 A TO STA. 497+69.49 A



FINISHED TYPICAL SECTION - C RAMP

STA. 497+09.22 C TO STA. 499+80.00 C

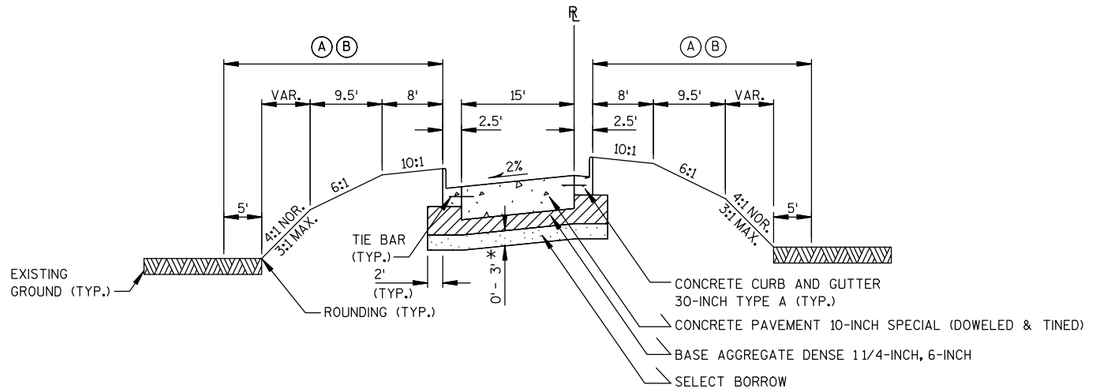
LEGEND

Ⓐ SEEDING TEMPORARY, SEEDING MIXTURE NO. 30, AND FERTILIZER TYPE B REQ'D

Ⓑ SALVAGED TOPSOIL AND MULCHING REQ'D

* PLACE SELECT BORROW IN THE UPPER THREE FEET OF ALL SUBGRADE FILLS.

** THICKNESS OF GUTTER TO MATCH THICKNESS OF CONCRETE PAVEMENT



FINISHED TYPICAL SECTION - SINGLE LANE RAMP WITH CURB AND GUTTER

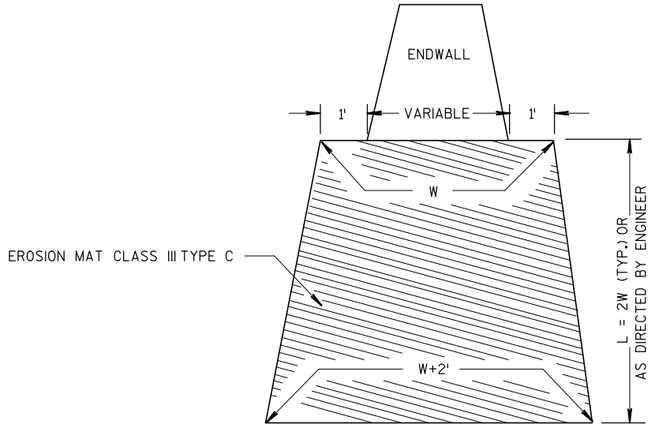
STA. 499+36.43 B TO STA. 500+54.26 B
STA. 498+19.80 C TO STA. 499+80.00 C
STA. 496+31.49 D TO STA. 497+29.06 D

LEGEND

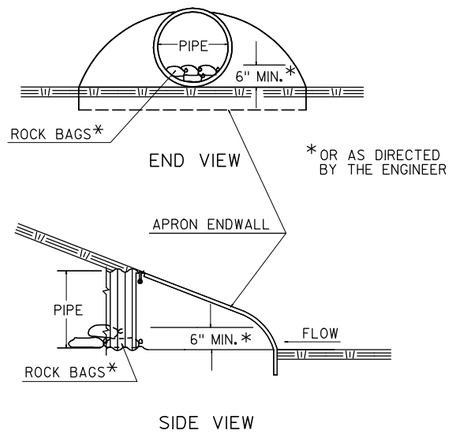
(A) SEEDING TEMPORARY, SEEDING MIXTURE NO. 30, AND FERTILIZER TYPE B REQ'D

(B) SALVAGED TOPSOIL AND MULCHING REQ'D

* PLACE SELECT BORROW IN THE UPPER THREE FEET OF ALL SUBGRADE FILLS.



EROSION MAT TREATMENT AT CULVERTS



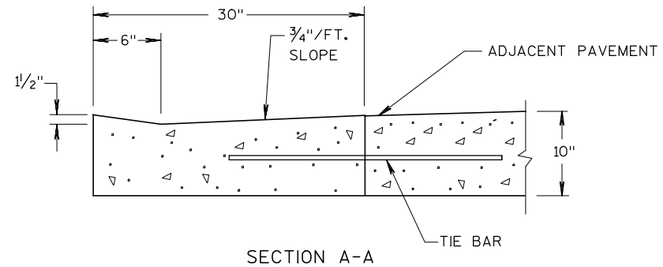
* CULVERT PIPE CHECKS WILL BE MEASURED AS EACH INDIVIDUAL ROCK BAG.

CULVERT PIPE CHECKS

RUNOFF COEFFICIENT TABLE

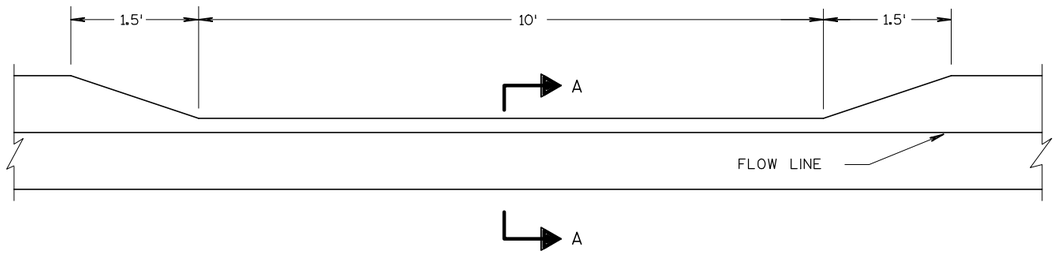
	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

TOTAL PROJECT AREA = 72.3 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 57.1 ACRES

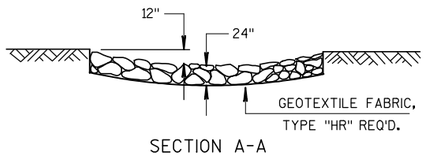


SECTION A-A

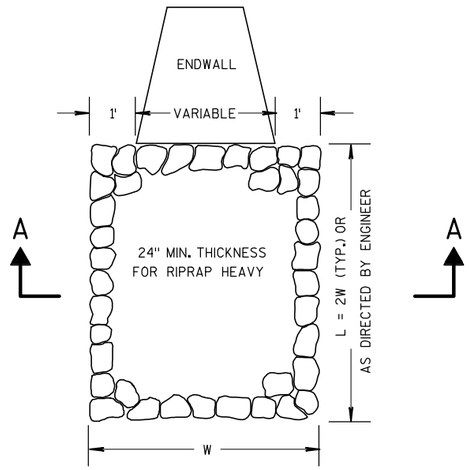
NOTE: SEE S.D.D. "CONCRETE CURB, CONCRETE CURB & GUTTER AND PAVEMENT TIES" FOR ADDITIONAL INFORMATION AND TYPICAL TIE BAR LOCATION.



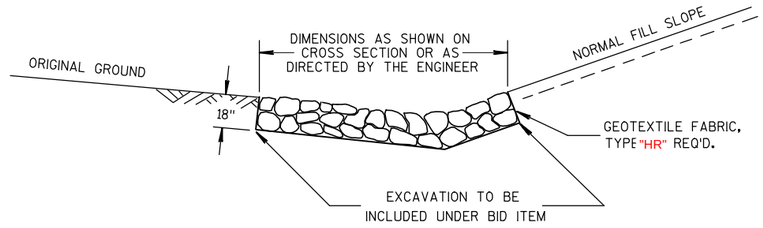
DETAIL OF CURB HEAD TRANSITION AT MAINTENANCE OPENING- MAINLINE MEDIAN



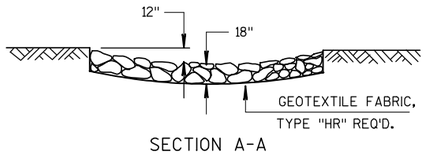
SECTION A-A



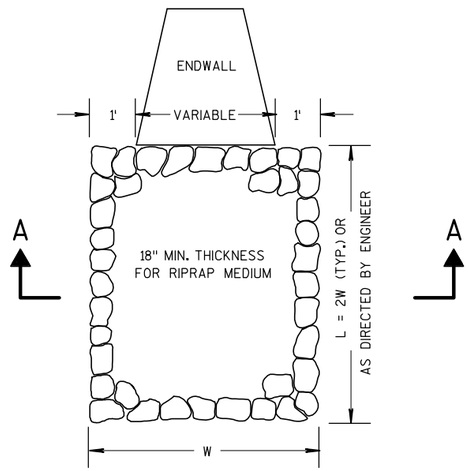
RIPRAP HEAVY TREATMENT AT CULVERTS



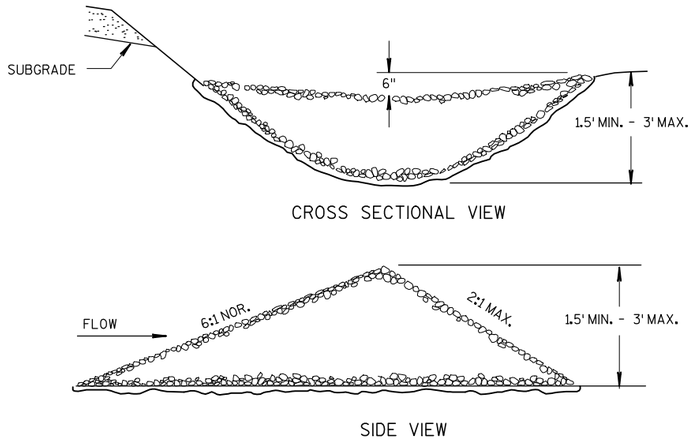
DETAIL FOR RIPRAP MEDIUM IN DITCHES



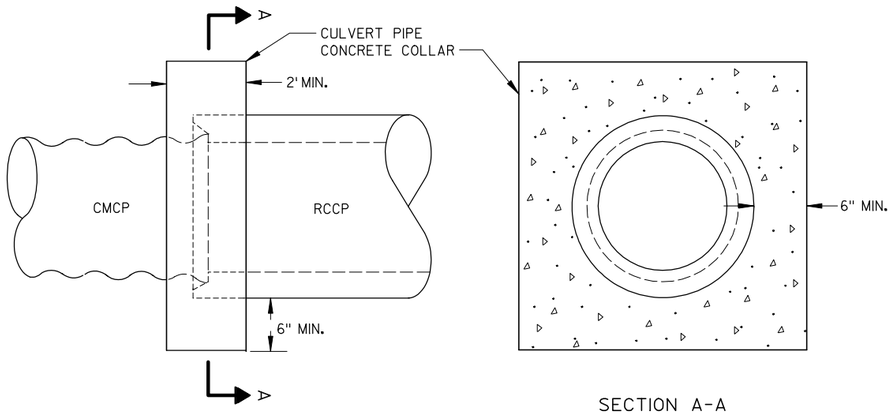
SECTION A-A



RIPRAP MEDIUM TREATMENT AT CULVERTS

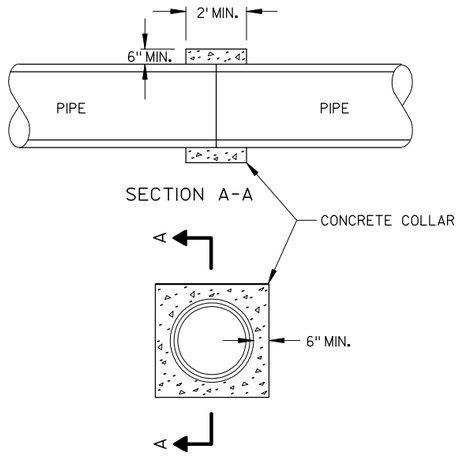


ROCK OR STONE DITCH CHECKS

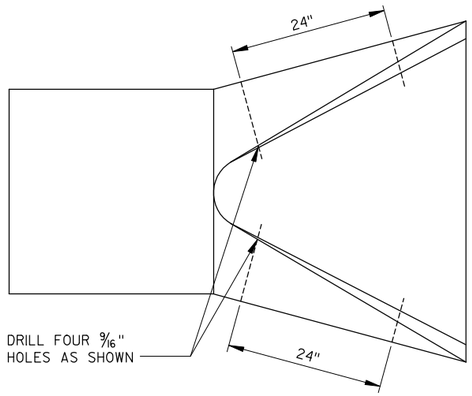


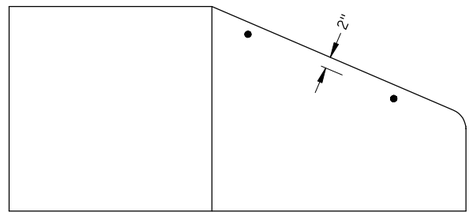
SECTION A-A

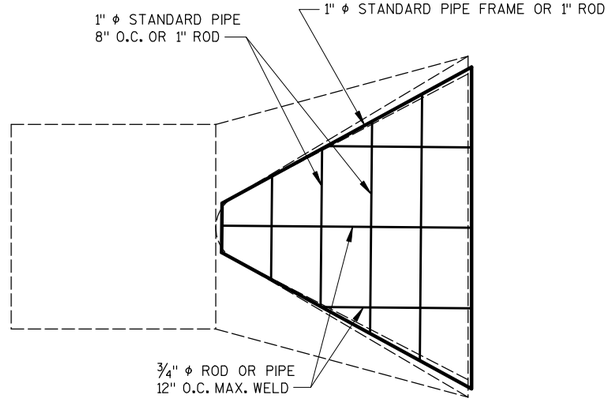
CONNECTION DETAIL RCCP TO CMCP

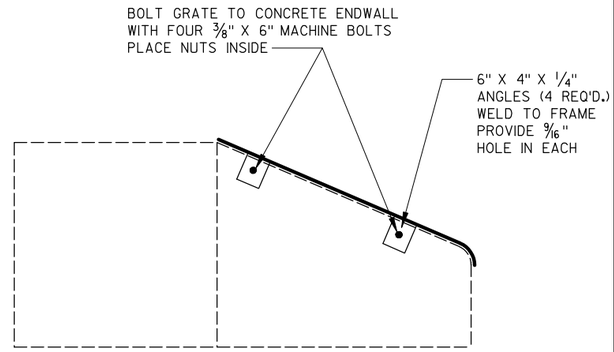


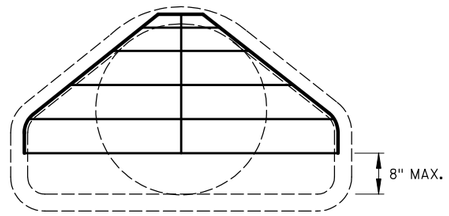
CULVERT PIPE CONCRETE COLLAR DETAIL



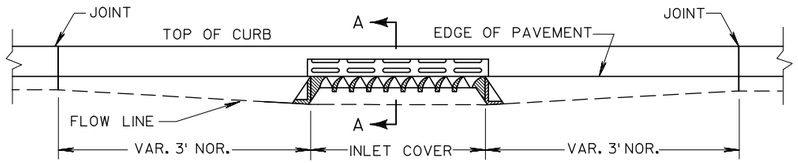




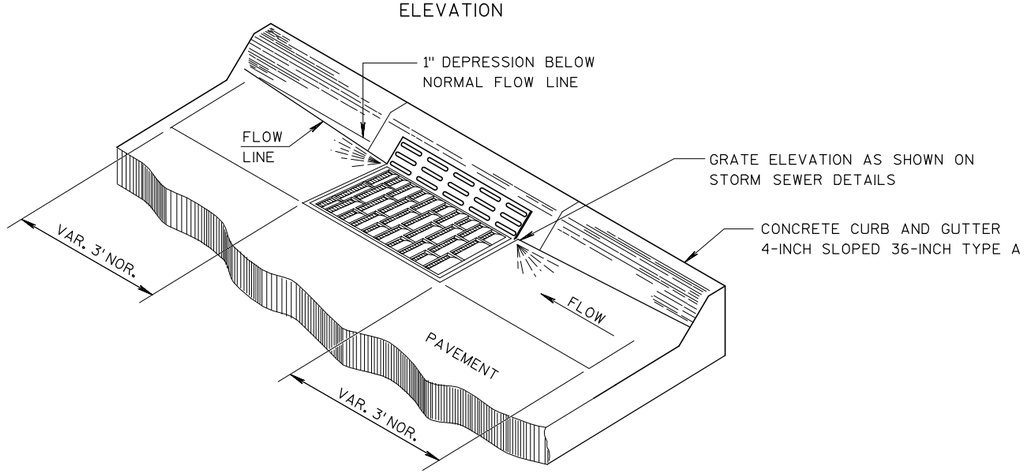




PIPE GRATE DETAIL



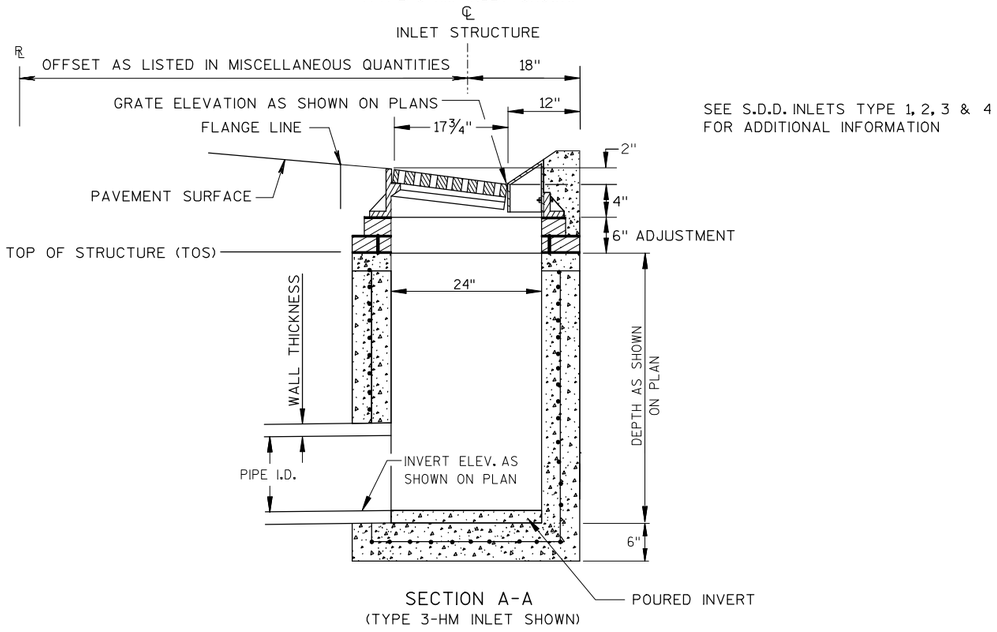
ELEVATION



DETAIL OF CURB AND GUTTER AT INLETS

(TYPE 3-HM INLET SHOWN)

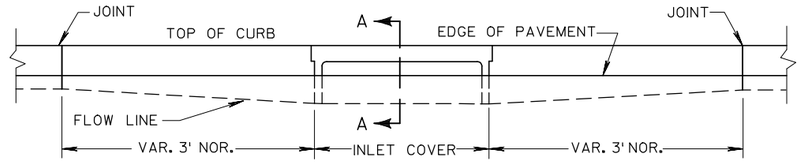
℄
INLET STRUCTURE



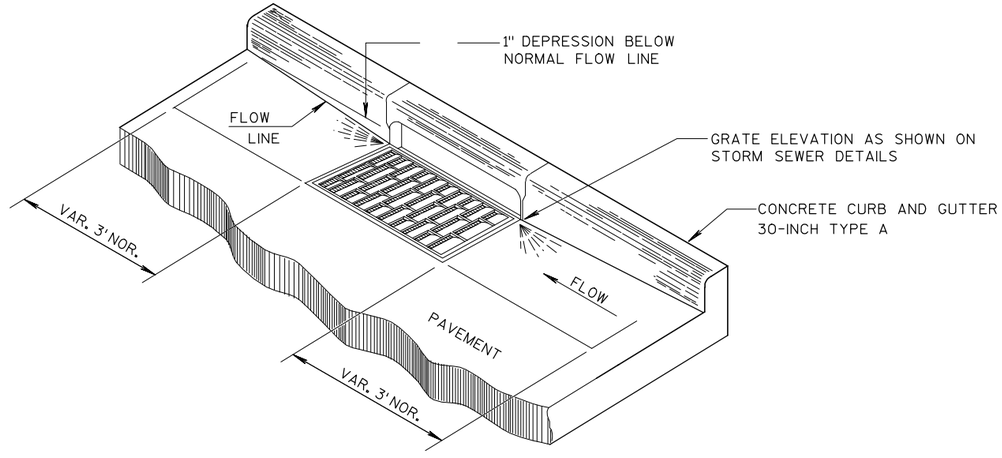
SEE S.D.D. INLETS TYPE 1, 2, 3 & 4
FOR ADDITIONAL INFORMATION

SECTION A-A
(TYPE 3-HM INLET SHOWN)

CONCRETE CURB AND GUTTER 36-INCH TYPE A AT INLETS



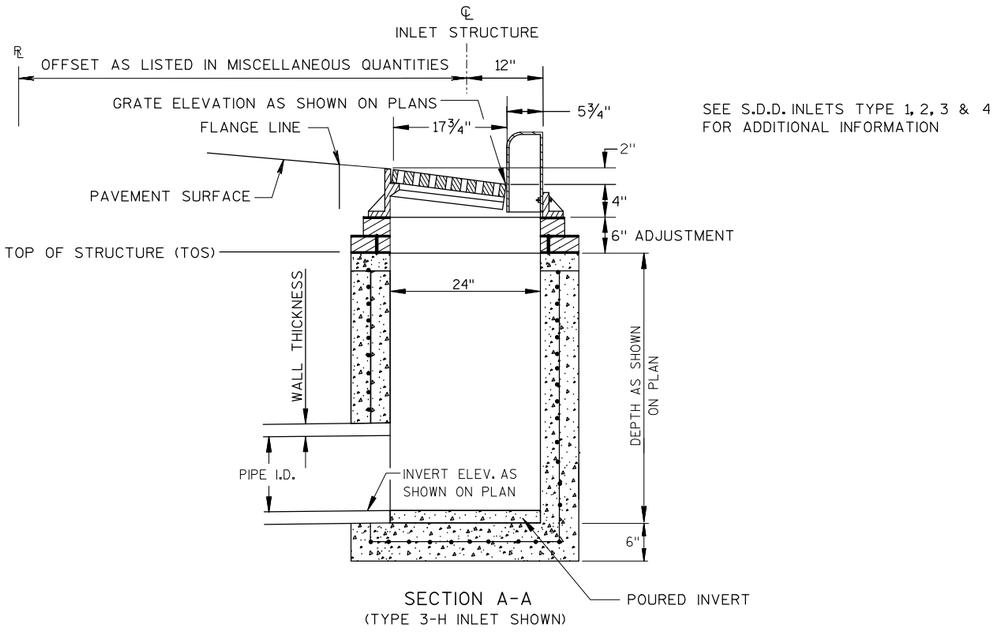
ELEVATION



DETAIL OF CURB AND GUTTER AT INLETS

(TYPE 3-H INLET SHOWN)

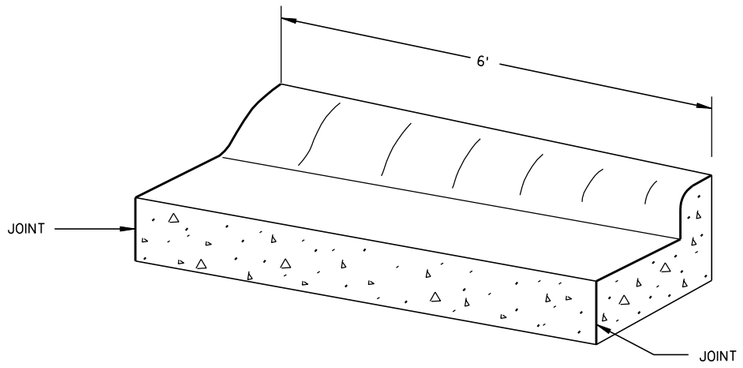
℄
INLET STRUCTURE



SEE S.D.D. INLETS TYPE 1, 2, 3 & 4
FOR ADDITIONAL INFORMATION

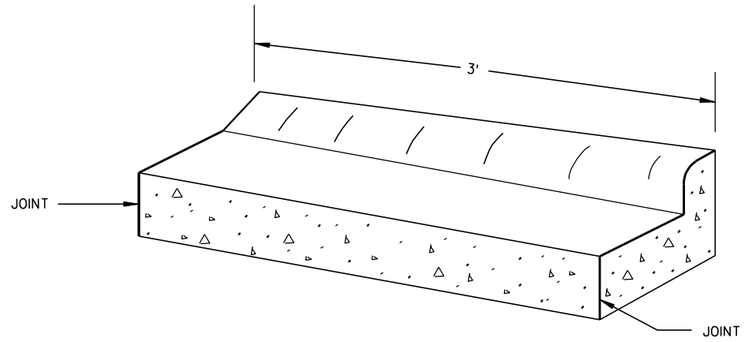
SECTION A-A
(TYPE 3-H INLET SHOWN)

CONCRETE CURB AND GUTTER 30-INCH TYPE A AT INLETS



TRANSITION DETAIL

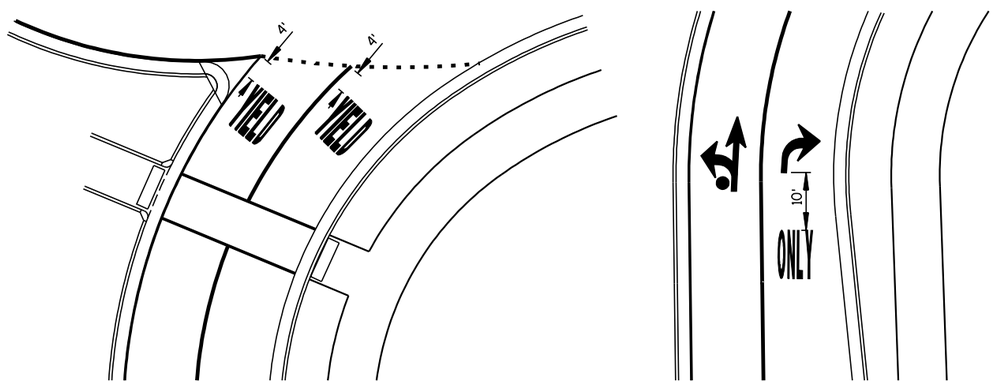
CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A TO
CONCRETE CURB & GUTTER 30-INCH (TO BE MEASURED AND PAID
FOR AS 4-INCH SLOPED 36-INCH TYPE A)



TRANSITION DETAIL

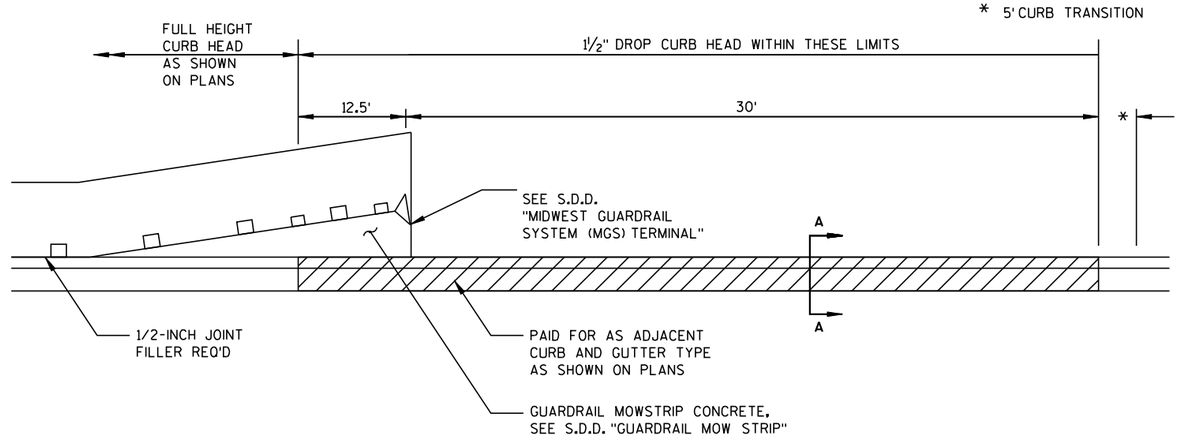
CONCRETE CURB & GUTTER 32-INCH SPECIAL TO
CONCRETE CURB & GUTTER 30-INCH (TO BE MEASURED AND PAID
FOR AS 32-INCH SPECIAL)

2



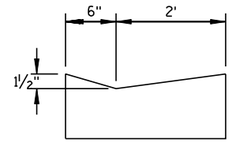
PAVEMENT MARKING DETAILS

* 5' CURB TRANSITION



DEPRESSED CURB HEAD AT MGS GUARDRAIL TERMINALS

STA. 47+12 TO STA. 47+48	RT
STA. 52+04 TO STA. 52+41	LT
STA. 56+62 TO STA. 57+04	LT
STA. 499+36 C TO STA. 499+80 C	RT
STA. 499+39 C TO STA. 499+80 C	LT

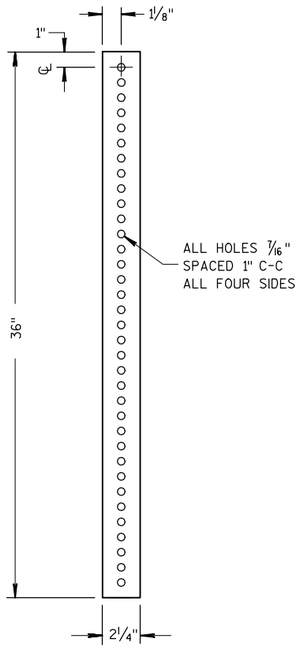


SECTION A-A

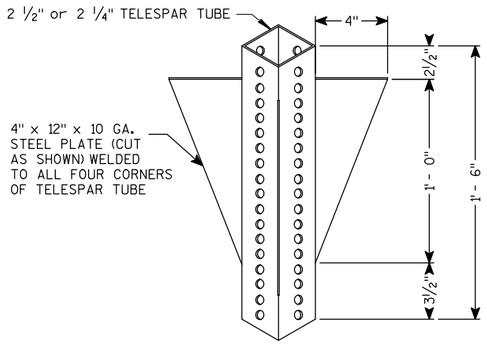
2

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

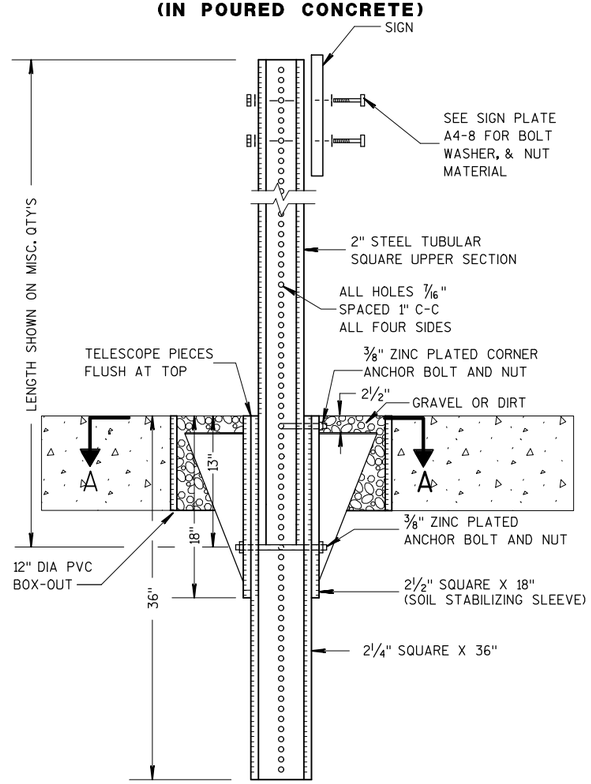
2 ¼" SQUARE 12 GAUGE PERFORATED GALVANIZED FINISH

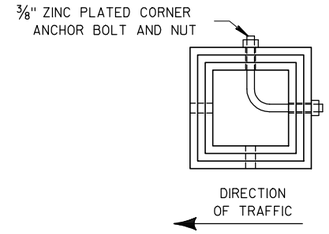


2 ½" SQUARE 12 GAUGE OMNI-DIRECTIONAL PERFORATED SOIL STABILIZING SLEEVE GALVANIZED FINISH



DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE)





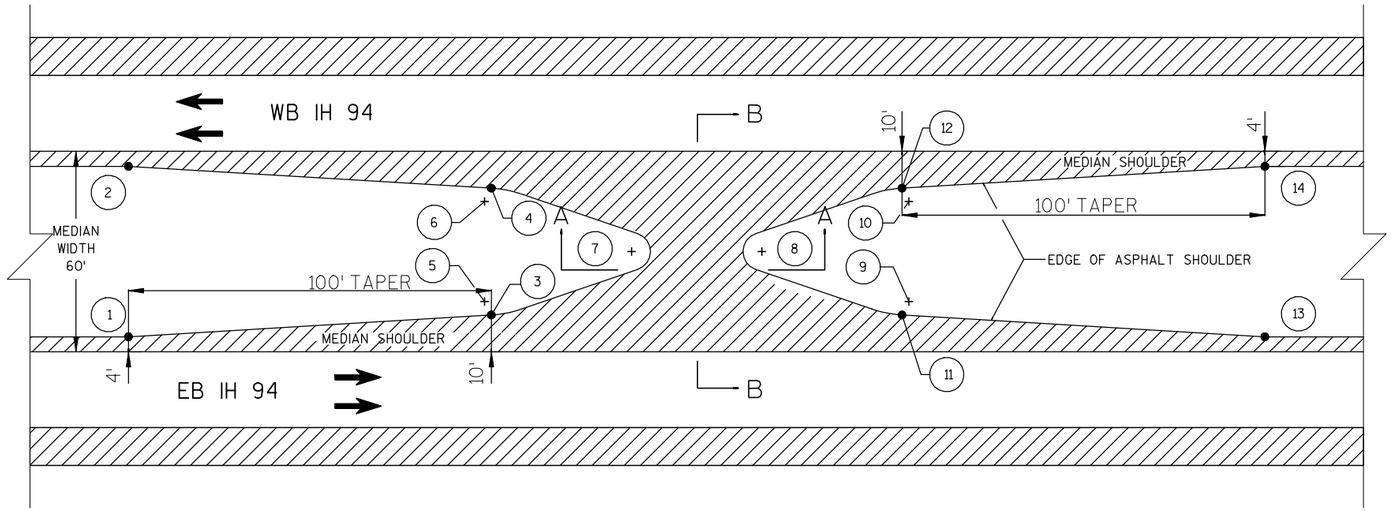
SECTION A-A

NOTE:
PLACE THE TOP OF THE 2¼" X 2¼" ANCHOR LEVEL WITH THE 12" DIA PVC BOX-OUT (WHICH IS GROUND LEVEL)

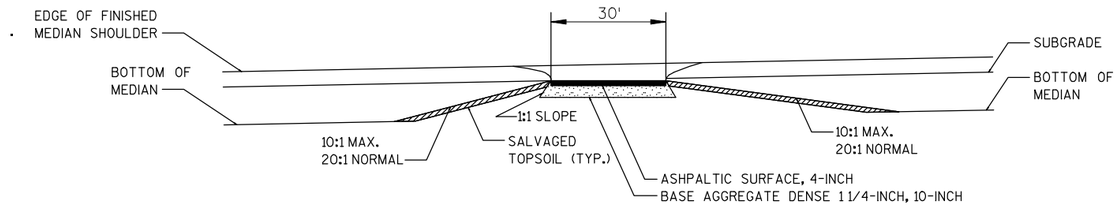
Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

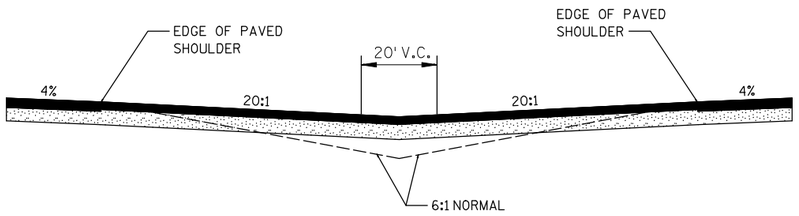
REMOVABLE SIGN POST



PLAN VIEW



SECTION A-A



SECTION B-B

DATA POINTS (WEST CROSSOVER)

POINT NO.	STATION	OFFSET	RADIUS
1	445+43.6 EB	4.0' LT	---
2	445+43.6 EB	56.0' LT	---
3	446+43.6 EB	10.0' LT	---
4	446+43.6 EB	50.0' LT	---
5	446+43.6 EB	70.0' LT	60'
6	446+43.6 EB	10.0' LT	60'
7	446+75.0 EB	30.0' LT	10'
8	447+25.0 EB	30.0' LT	10'
9	447+56.4 EB	70.0' LT	60'
10	447+56.4 EB	10.0' LT	60'
11	447+56.4 EB	10.0' LT	---
12	447+56.4 EB	50.0' LT	---
13	448+56.4 EB	4.0' LT	---
14	448+56.4 EB	56.0' LT	---

DATA POINTS (EAST CROSSOVER)

POINT NO.	STATION	OFFSET	RADIUS
1	532+12.0 EB	4.0' LT	---
2	532+18.2 EB	83.7' LT	---
3	532+12.0 EB	10.0' LT	---
4	533+18.6 EB	79.9' LT	---
5	533+16.8 EB	70.0' LT	60'
6	533+19.9 EB	19.9' LT	60'
7	533+75.0 EB	45.8' LT	10'
8	534+25.0 EB	45.8' LT	10'
9	534+83.4 EB	70.0' LT	60'
10	534+86.3 EB	23.5' LT	60'
11	534+83.3 EB	10.0' LT	---
12	534+85.0 EB	83.5' LT	---
13	535+83.0 EB	4.0' LT	---
14	535+86.0 EB	91.7' LT	---

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SIGNING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.

SEE SDD "MAINTENANCE CROSSOVER FOR FREEWAYS" FOR ADDITIONAL DETAILS.

MAINTENANCE CROSSOVER

STA. 447+00 EB
STA. 534+00 EB

2

IH 94 EB

SUPERELEVATION TABLE				
LT LANE RATE %	IH 94 EB STATION	RT LANE RATE %	AUX LANE RATE %	
2.00	413+00.00 'EB'	-2.00	---	
2.00	471+88.33 'EB'	-2.00	-2.00	BEGIN IH 94 EB EXIT LANE
2.00	480+93.59 'EB'	-2.00	-2.00	
-2.00	483+33.59 'EB'	-2.00	-2.00	
-4.00	484+53.59 'EB'	-4.00	-4.00	
-4.00	485+57.30 'EB'	-4.00	-4.00	
-4.00	485+88.46 'EB'	-4.00	-5.30	
-4.00	486+34.67 'EB'	-4.00	-5.30	END IH 94 EB EXIT LANE
-4.00	513+85.64 'EB'	-4.00	-4.00	BEGIN IH 94 EB ENTRANCE LANE
-4.00	514+73.12 'EB'	-4.00	-4.00	
-2.00	515+93.12 'EB'	-2.00	-2.00	
-2.00	518+33.12 'EB'	2.00	-2.00	
-2.00	523+27.00 'EB'	-2.00	-2.00	END IH 94 EB ENTRANCE LANE
2.00	525+00 'EB'	-2.00	---	

IH 94 WB

SUPERELEVATION TABLE				
AUX LANE RATE %	LT LANE RATE %	IH 94 EB STATION	RT LANE RATE %	
---	-2.00	413+00.00 'WB'	2.00	
-2.00	-2.00	472+78.35 'WB'	2.00	BEGIN IH 94 WB ENTRANCE LANE
-2.00	-2.00	480+93.59 'WB'	2.00	
-2.00	0.78	482+60.35 'WB'	2.00	
-2.67	1.09	482+78.35 'WB'	2.00	END IH 94 WB ENTRANCE LANE
2.00	2.00	483+33.59 'WB'	2.00	
4.00	4.00	484+53.59 'WB'	4.00	
-1.00	4.00	509+98.57 'WB'	4.00	END IH 94 WB EXIT LANE
4.00	4.00	511+56.07 'WB'	4.00	
4.00	4.00	515+14.68 'WB'	4.00	
2.00	2.00	515+93.11 'WB'	2.00	
-2.00	-2.00	518+33.12 'WB'	2.00	
-2.00	-2.00	522+77.67 'WB'	2.00	END IH WB EXIT LANE
---	-2.00	525+00.00 'WB'	2.00	

RAMP A

SUPERELEVATION TABLE			
LT LANE RATE %	RAMP A STATION	RT LANE RATE %	
---	486+34.67 'A'	-5.3	
---	489+05.56 'A'	-5.3	
---	489+22.39 'A'	-6.0	
---	491+01.00 'A'	-6.0	
---	491+83.52 'A'	-2.0	
---	492+72.66 'A'	-2.0	
-3.4	493+70.87 'A'	3.4	BEGIN LEFT LANE
-6.0	494+17.66 'A'	6.0	
-6.0	495+07.59 'A'	6.0	
2.0	496+89.41 'A'	-2.0	
2.5	497+57.38 'A'	-2.5	

RAMP B

SUPERELEVATION TABLE	
RAMP B STATION	LANE RATE %
499+33.97 'B'	-2.0
499+85.00 'B'	-4.1
503+81.75 'B'	-4.1
504+22.36 'B'	-2.0
507+06.82 'B'	-2.0
507+85.84 'B'	-5.1
513+57.60 'B'	-5.1
513+85.64 'B'	-4.0

RAMP C

SUPERELEVATION TABLE	
RAMP C STATION	LANE RATE %
498+68.49 'C'	3.1
499+00.00 'C'	4.0
501+77.44 'C'	4.0
499+50.00 'C'	6.0
502+07.79 'C'	6.0
501+60.24 'C'	-2.0
503+49.22 'C'	-2.0
504+28.32 'C'	-5.3
507+55.41 'C'	-5.3
508+58.48 'C'	-1.0
509+98.57 'C'	-1.0

SEE INTERSECTION DETAIL FOR PAVEMENT SLOPES BETWEEN STA. 497+06.55 'C' AND STA. 498+68.49 'C'

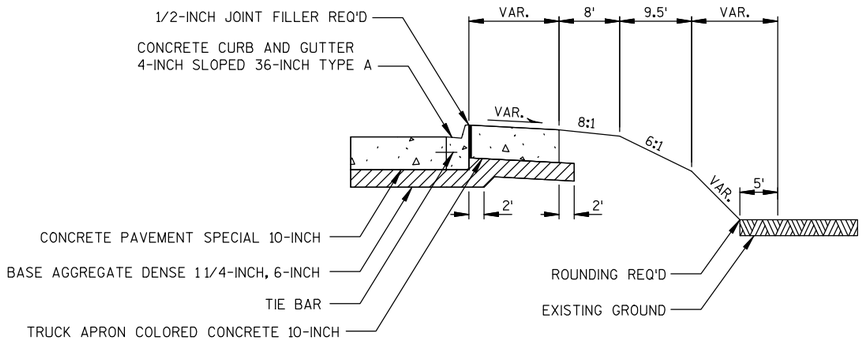
RAMP D

SUPERELEVATION TABLE			
LT LANE RATE %	RAMP D STATION	RT LANE RATE %	
---	482+78.35 'D'	-2.7	
---	483+14.02 'D'	-4.0	
---	485+38.83 'D'	-4.0	
---	485+92.50 'D'	-2.0	
-2.0	486+99.60 'D'	-2.0	BEGIN LEFT LANE
-2.0	493+39.97 'D'	-2.0	
-3.8	493+74.84 'D'	-2.0	
---	496+50.00 'D'	-2.0	
---	497+00.00 'D'	-2.5	
---	497+31.49 'D'	-2.5	

RAMP DB

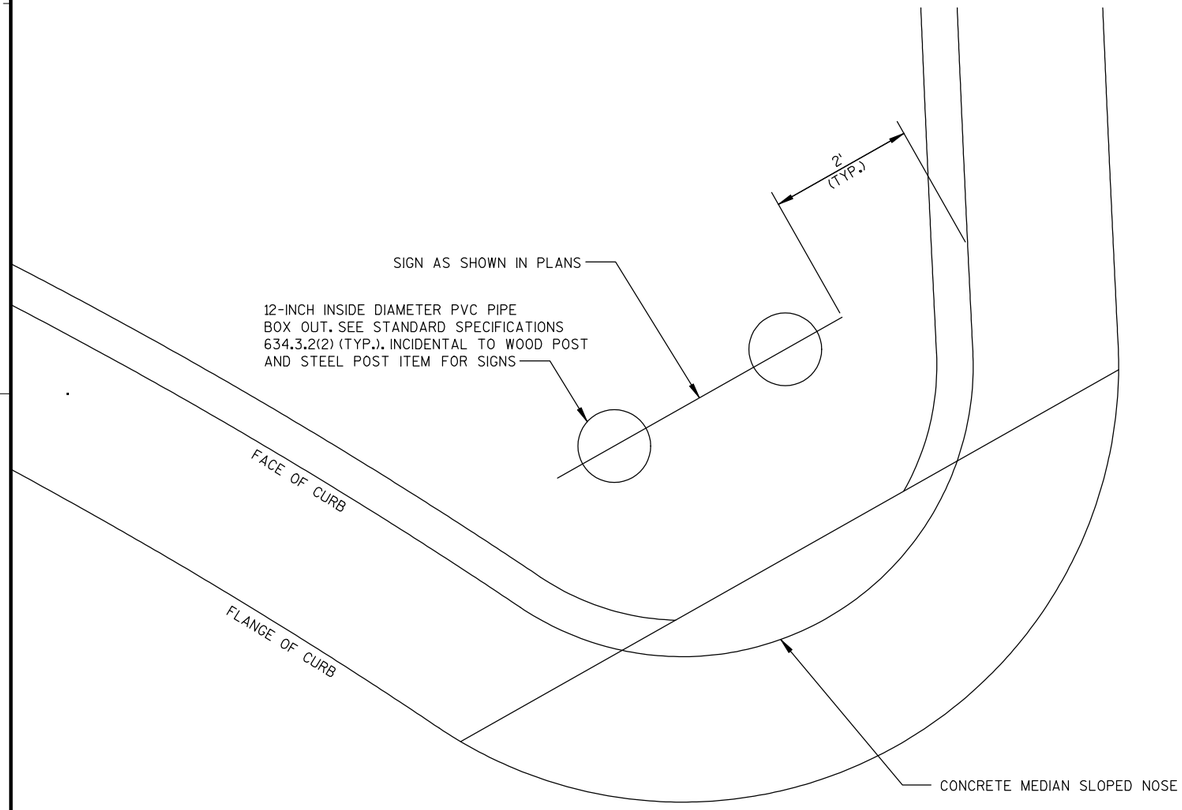
SUPERELEVATION TABLE	
LANE RATE %	RAMP DB STATION
-3.8	493+74.84 'DB'
-5.7	494+11.56 'DB'
-5.7	499+08.22 'DB'
-1.0	499+99.16 'DB'

SUPERELEVATION TABLES

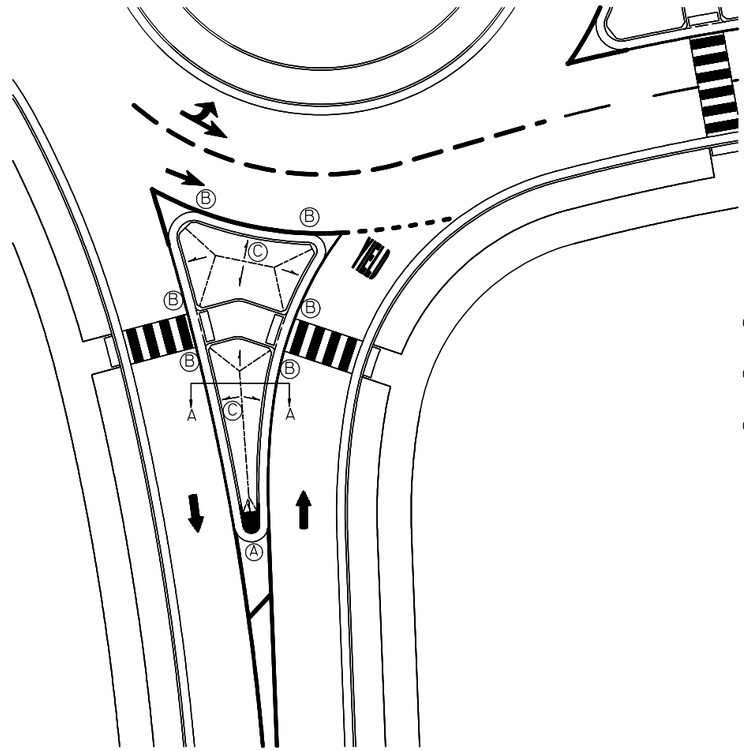


OVERSIZE OVERWEIGHT OFF TRACKING PAVING DETAIL

NOTE:
BOX OUT LOCATIONS SHALL BE COORDINATED WITH THE ENGINEER.



TYPICAL AT ROUNDABOUT SPLITTER ISLANDS



Ⓐ CONCRETE MEDIAN
SLOPED NOSE TYPE 1

Ⓑ CONCRETE MEDIAN
SLOPED NOSE TYPE 2

Ⓒ SLOPE OF CONCRETE:
4% MIN. TO 6:1 MAX.

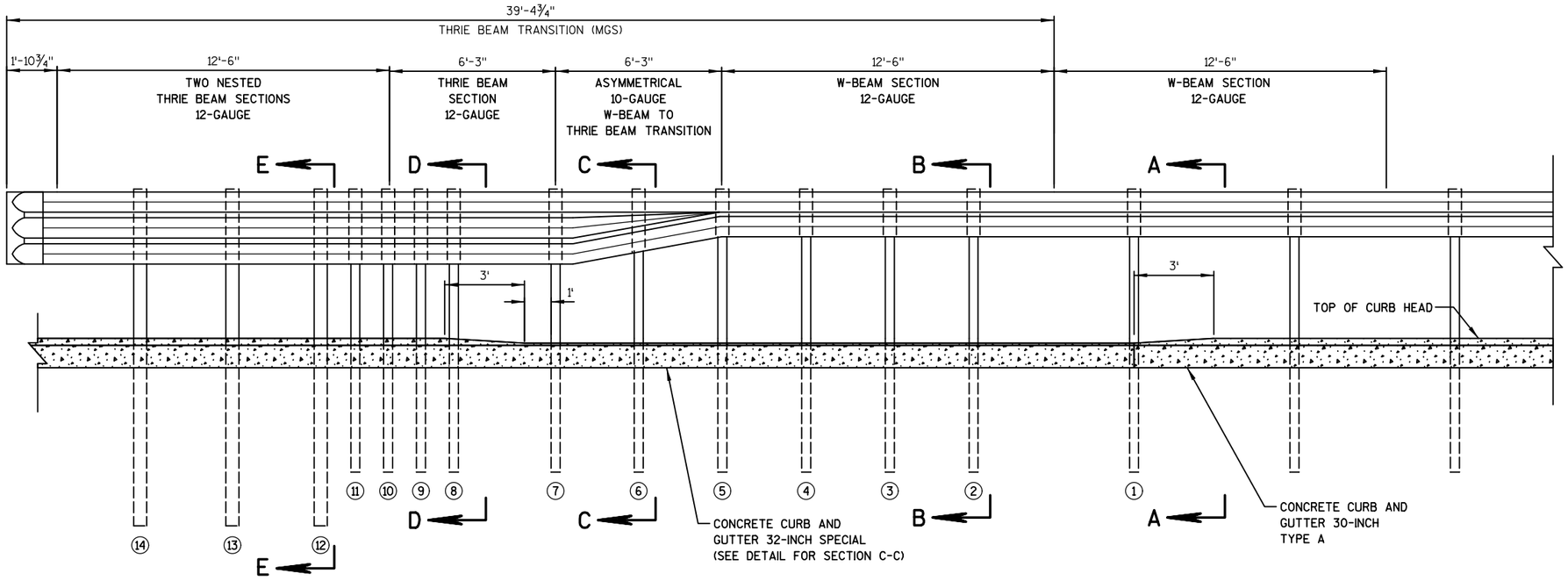
HEIGHT: (ABOVE TOP OF CURB)
0.5 FEET MIN. TO 1.5 FEET MAX.

*



SECTION A-A

TYPICAL SPLITTER ISLAND
SLOPED NOSE & CONCRETE SLOPING
STA. 51+60 - STA. 52+22
STA. 53+85 - STA. 55+50



MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION WITH CONCRETE CURB AND GUTTER

Ⓑ WOOD OR STEEL POSTS (W6X9 OR W6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

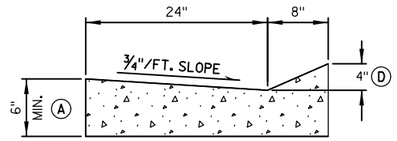
Ⓒ FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1".

Ⓓ DEPRESS 4-INCH CURB HEAD TO 1-INCH AT ASYMMETRICAL AND W-BEAM SECTIONS OF THRIE BEAM TRANSITION.

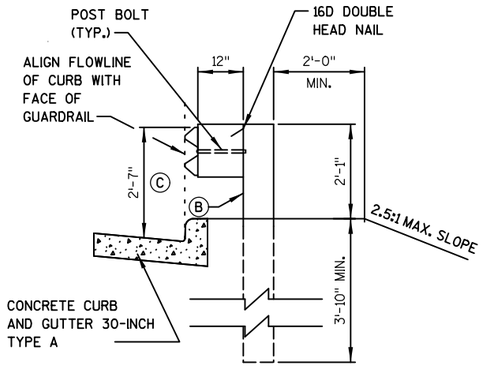
UTILIZE INLET COVER TYPE V, PLACED ON INLETS TYPE 1 WHEN A DRAINAGE STRUCTURE IS REQUIRED. THE TYPICAL LOCATION FOR THE DRAINAGE STRUCTURE IS WHERE THE POST SPACING IS 3'-1½".

SEE MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL AND MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) DETAILS WHEN NECESSARY

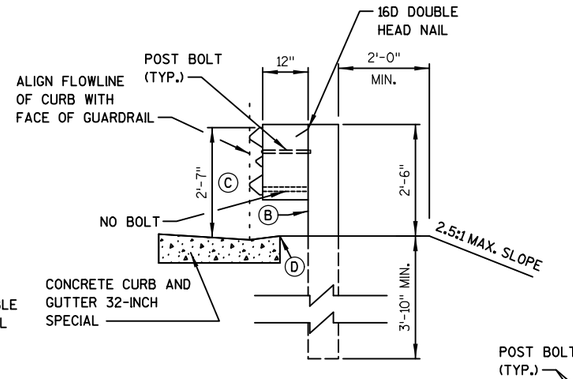
Ⓐ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.



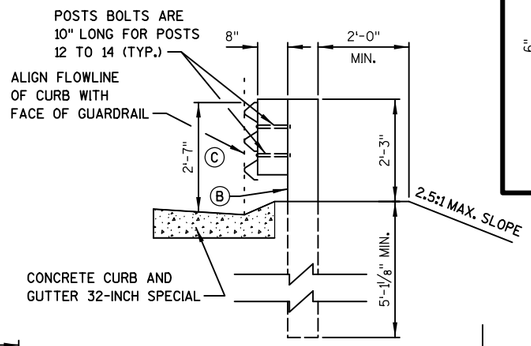
CONCRETE CURB AND GUTTER 32-INCH SPECIAL



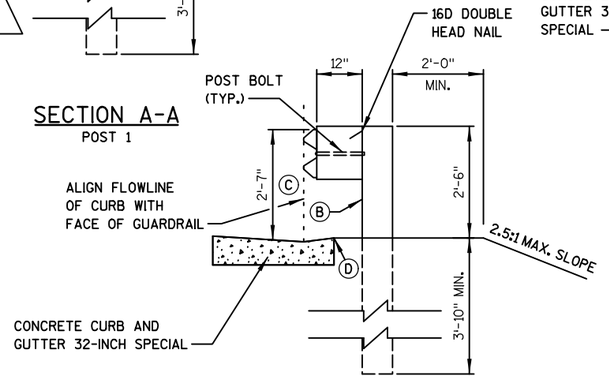
SECTION A-A
POST 1



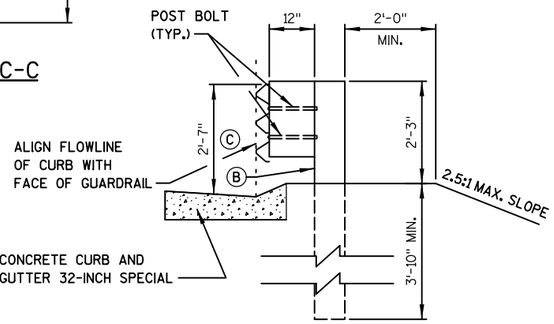
SECTION C-C
POST 6



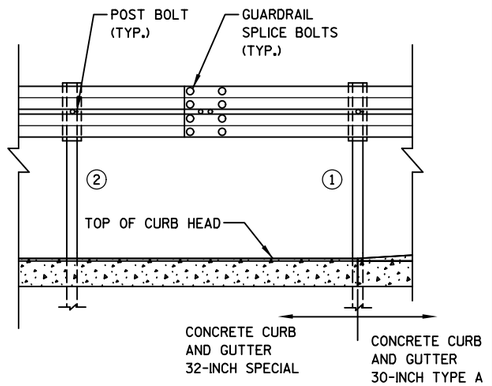
SECTION E-E
POSTS 12-14



SECTION B-B
POSTS 2-5



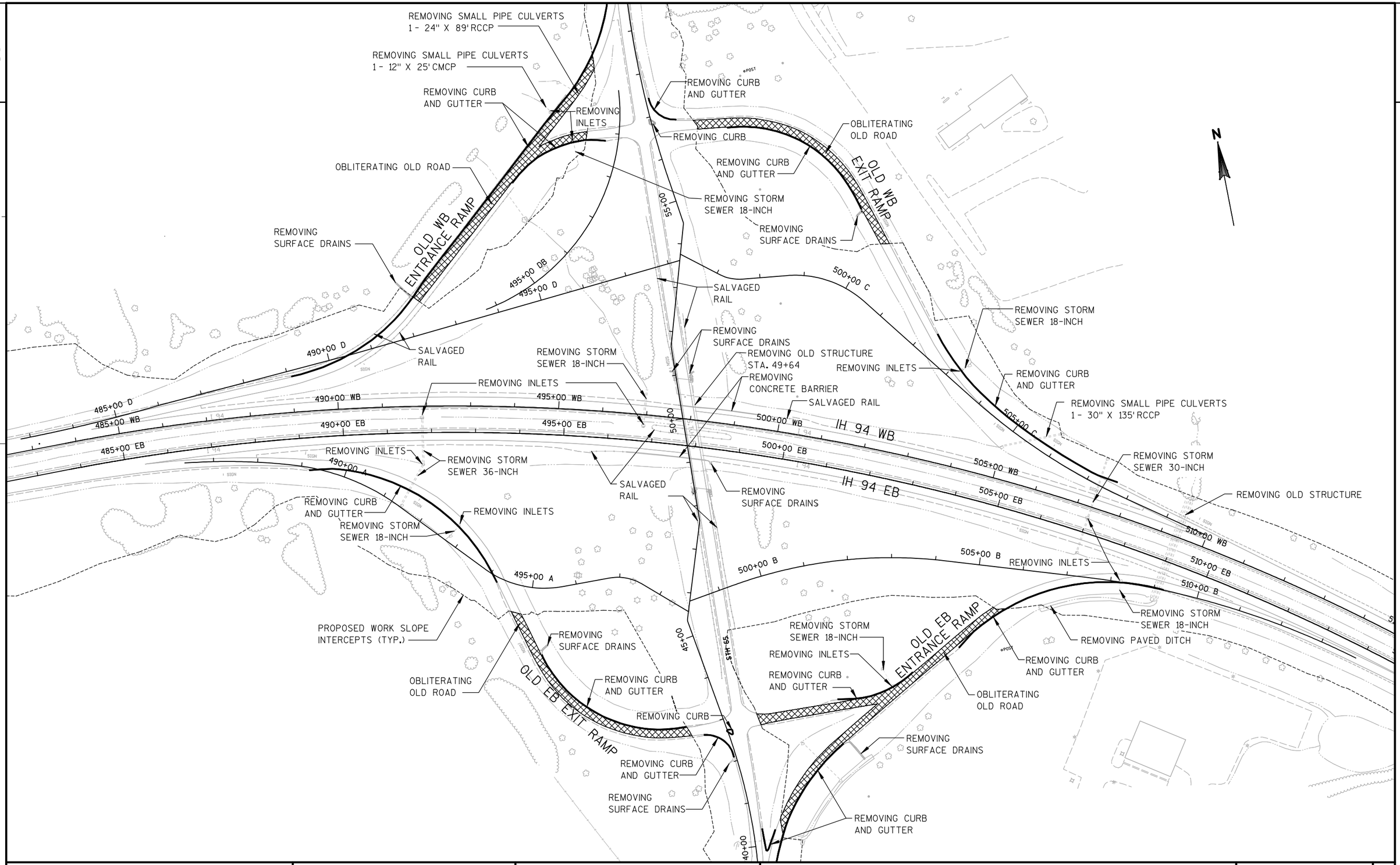
SECTION D-D
POSTS 7-11



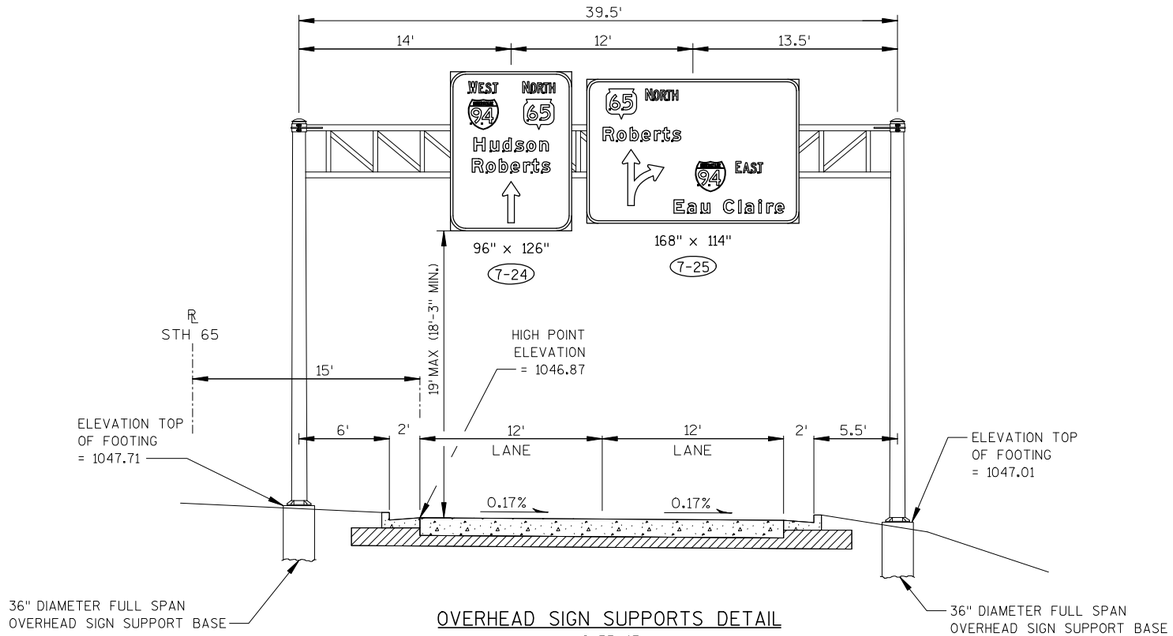
SPLICE DETAIL

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CONSTRUCTION DETAIL	SHEET 25	E

2



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	INTERCHANGE REMOVALS	SHEET 26	E



OVERHEAD SIGN SUPPORTS DETAIL

S-55-45

STA 44+27

GENERAL NOTES

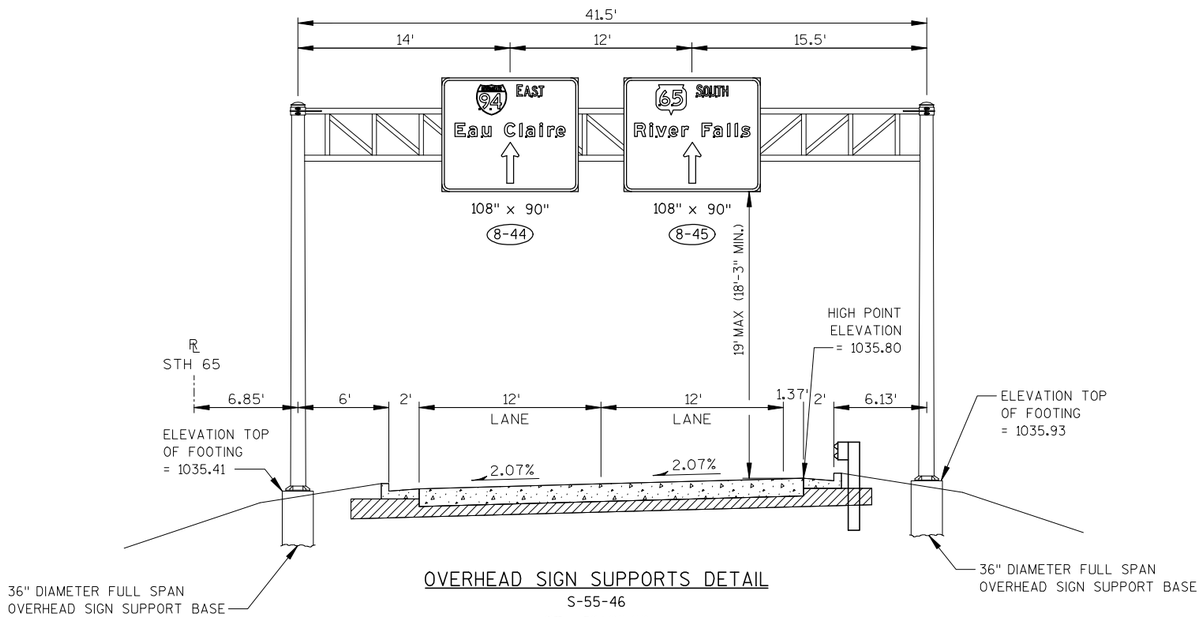
DRAWINGS NOT TO SCALE.

SEE S.D.D. "36" DIAMETER FULL SPAN OVERHEAD SIGN SUPPORT BASE" FOR ADDITIONAL INFORMATION.

DESIGN NEW OVERHEAD SIGN SUPPORTS ACCORDING TO THE LATEST EDITION OF, AND SUPPLEMENTAL TO THE STATE OF WISCONSIN "STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION" AND AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS".

THE SIGN STRUCTURES SHALL BE DESIGNED TO SUPPORT THE SIGNS SHOWN.

PROVIDE AN IDENTIFICATION PLAQUE FOR ALL OVERHEAD SIGN SUPPORTS, TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "OVERHEAD SIGN SUPPORTS".

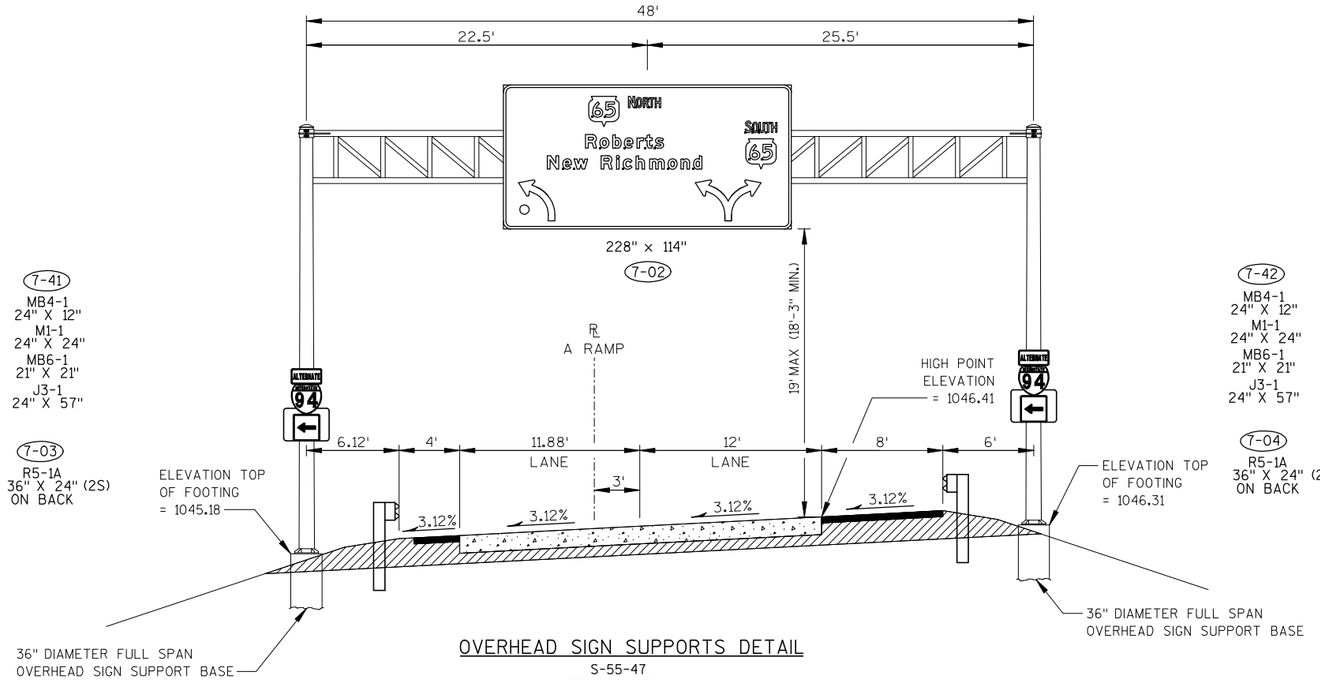


OVERHEAD SIGN SUPPORTS DETAIL

S-55-46

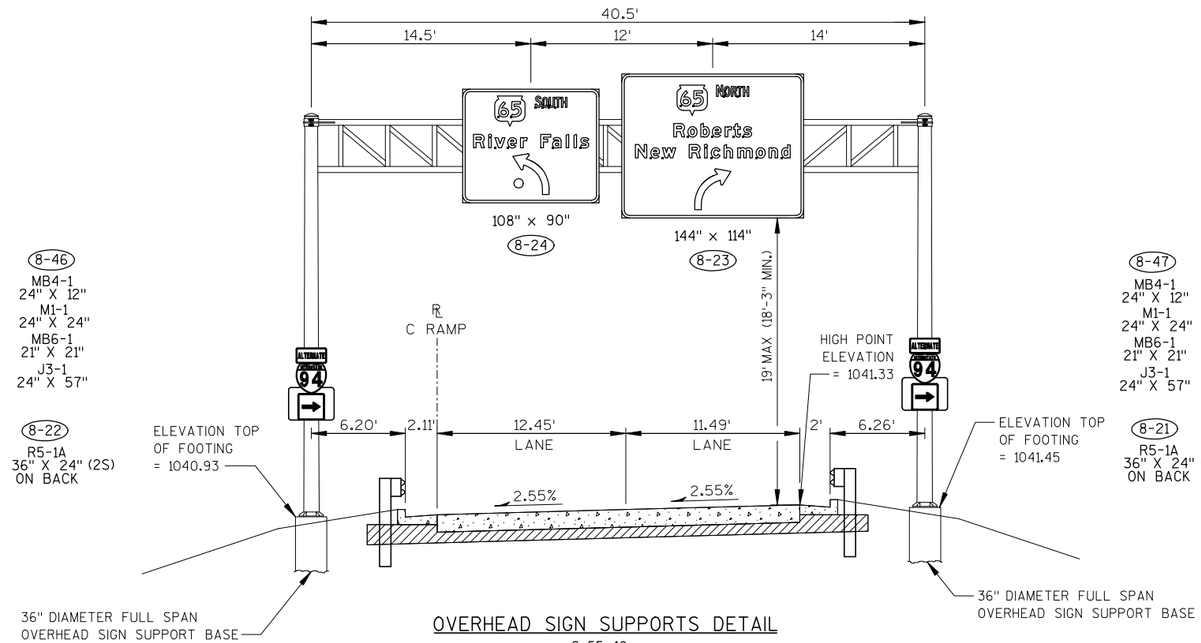
STA 56+00.89

SKEW = 9°55'33" RHF



OVERHEAD SIGN SUPPORTS DETAIL

S-55-47
STA 495+73 A
A RAMP



OVERHEAD SIGN SUPPORTS DETAIL

S-55-48
STA 498+70 C
SKEW 15°51'07" LHF

GENERAL NOTES

DRAWINGS NOT TO SCALE.

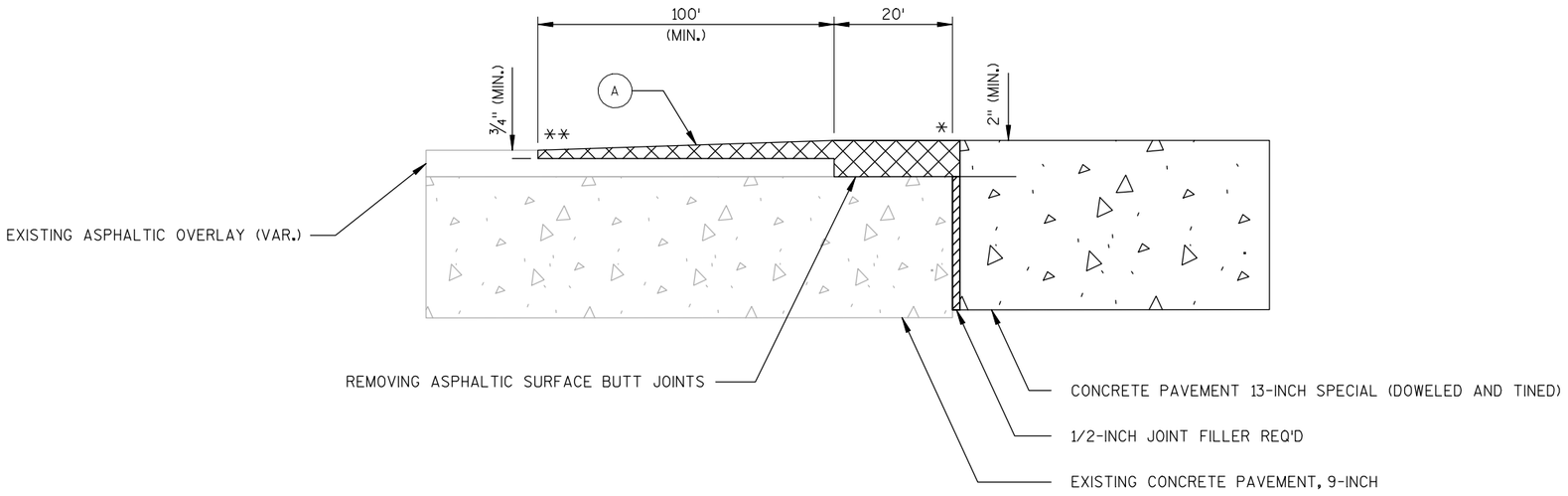
SEE S.D.D. "36" DIAMETER FULL SPAN OVERHEAD SIGN SUPPORT BASE" FOR ADDITIONAL INFORMATION.

DESIGN NEW OVERHEAD SIGN SUPPORTS ACCORDING TO THE LATEST EDITION OF, AND SUPPLEMENTAL TO THE STATE OF WISCONSIN "STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION" AND AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS".

THE SIGN STRUCTURES SHALL BE DESIGNED TO SUPPORT THE SIGNS SHOWN.

PROVIDE AN IDENTIFICATION PLAQUE FOR ALL OVERHEAD SIGN SUPPORTS, TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "OVERHEAD SIGN SUPPORTS".

2



A HMA PAVEMENT TYPE E-10

* SAWING CONCRETE

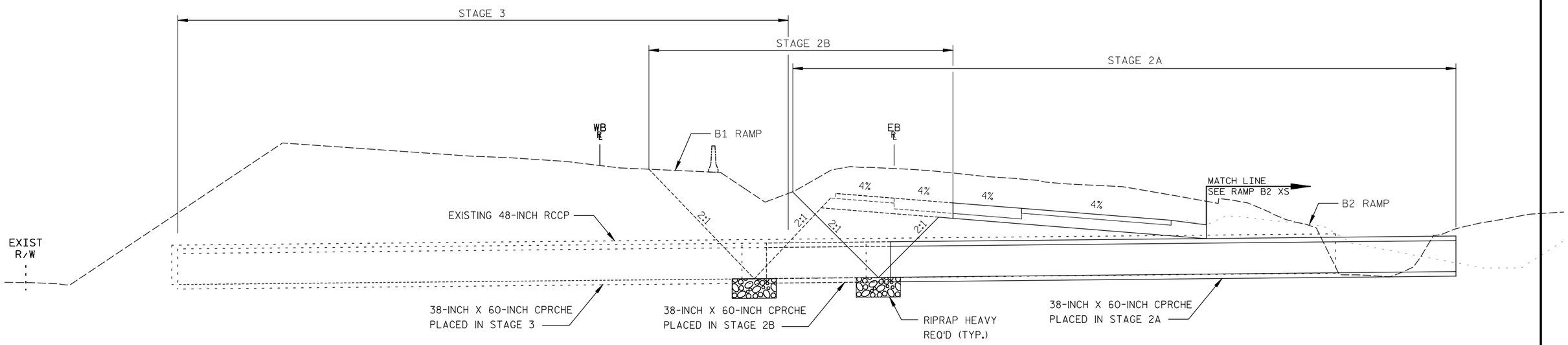
** SAWING ASPHALT

DETAIL OF BUTT JOINT AT EXISTING AND PROPOSED CONCRETE PAVEMENT

EXACT DIMENSIONS TO BE DETERMINED BY ENGINEER IN THE FIELD.

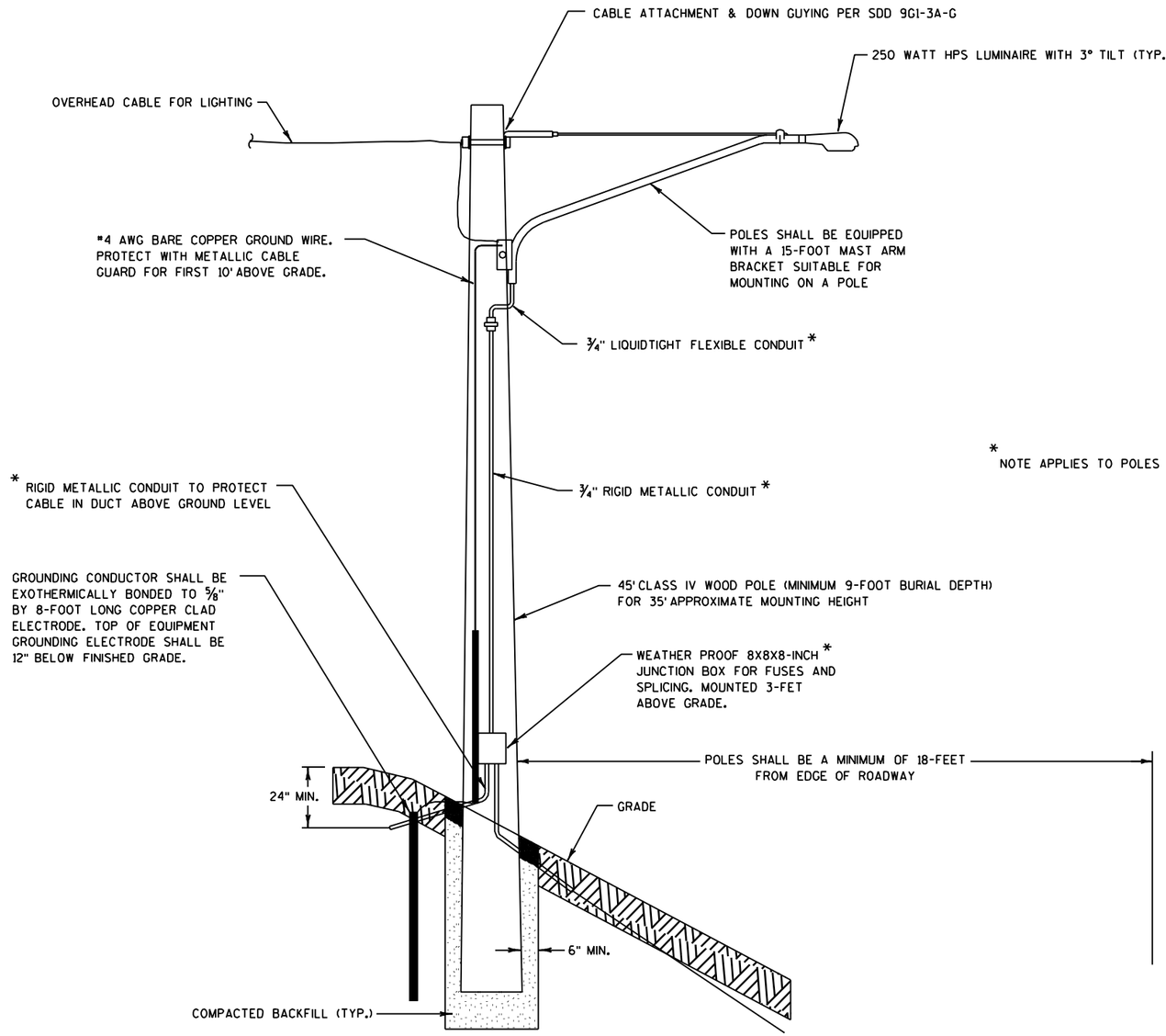
NOTE:

DRILLED DOWELS SHALL NOT BE INSTALLED BETWEEN EXISTING CONCRETE PAVEMENT, 9-INCH AND CONCRETE PAVEMENT 13-INCH SPECIAL.



CONSTRUCTION SEQUENCE OF 38-INCH X 60-INCH CULVERT

STA. 509+00 EB



TEMPORARY LIGHTING UNIT INSTALLATION DETAIL

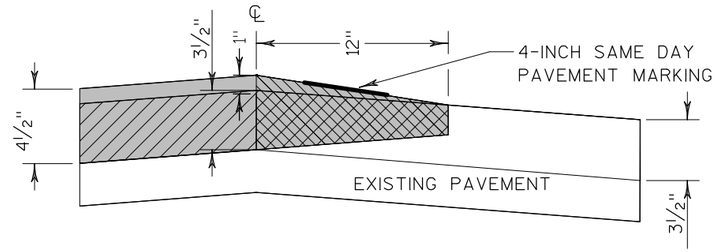
NOT TO SCALE

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CONSTRUCTION DETAILS	SHEET 30	E

FILE NAME : G:\STRAND\S100917\DGN\LIGHTING SHEETS\021001_cd.dgn PLOT DATE : 8/24/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 42

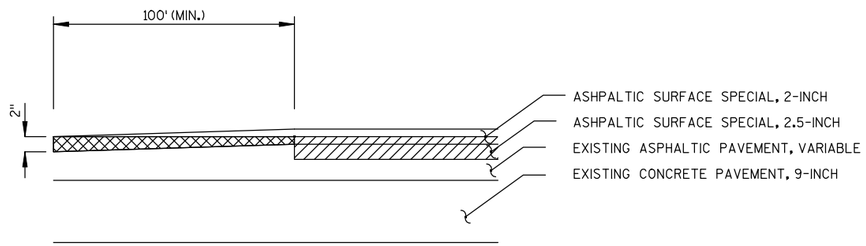
2



LEGEND

- MILLING FIRST PASS
- MILLING SECOND PASS
- ASPHALTIC SURFACE SPECIAL

RESURFACE CROWN JOINT



REMOVING ASPHALTIC SURFACE BUTT JOINTS

REMOVING ASPHALTIC SURFACE MILLING, 3.5-INCH

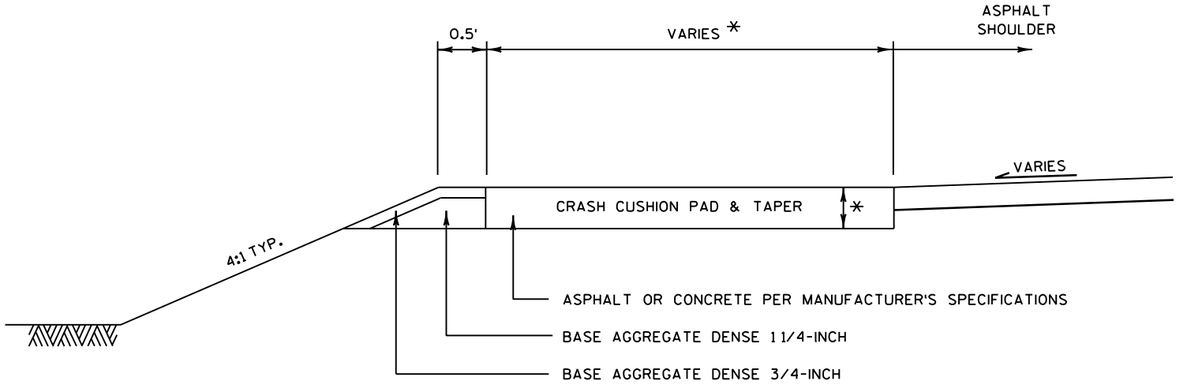
DETAIL OF BUTTED JOINT

FILE NAME : s:\mad\1000--1099\1089\199\Micros\Plan\021014_cd.dgn PLOT DATE : 8/25/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

NOTE:

TEMPORARY CRASH CUSHION PAD INCIDENTAL
TO THE ITEM CRASH CUSHION TEMPORARY.

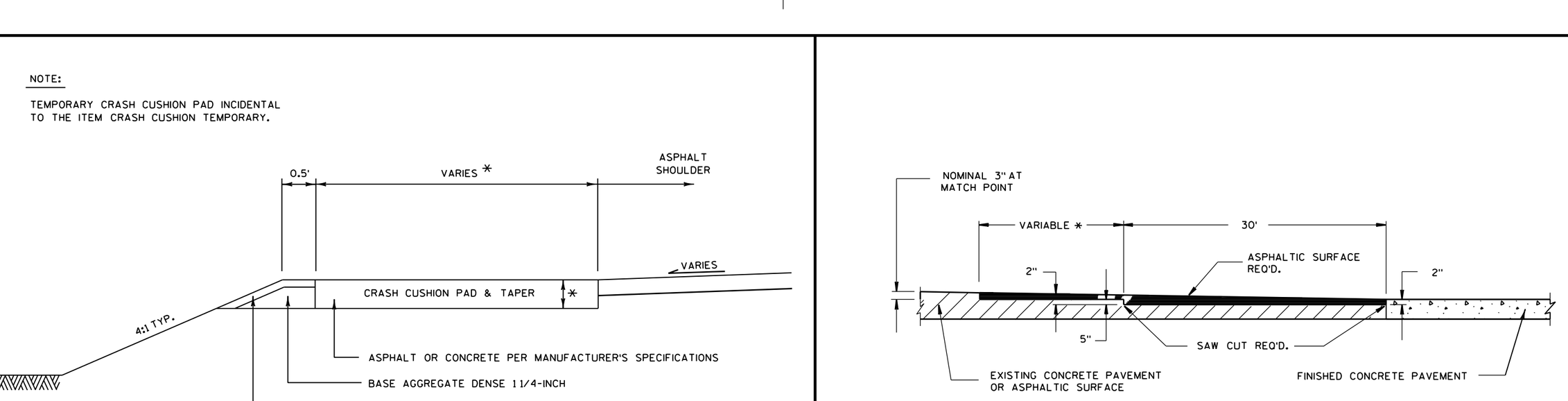


* CRASH CUSHION PAD DIMENSIONS
AS SPECIFIED BY THE MANUFACTURER

TEMPORARY CRASH CUSHION PAD DETAIL

DETAIL OF STH 65 MATCH BUTTED JOINT

* EXACT DIMENSIONS TO BE DETERMINED
BY ENGINEER IN THE FIELD.



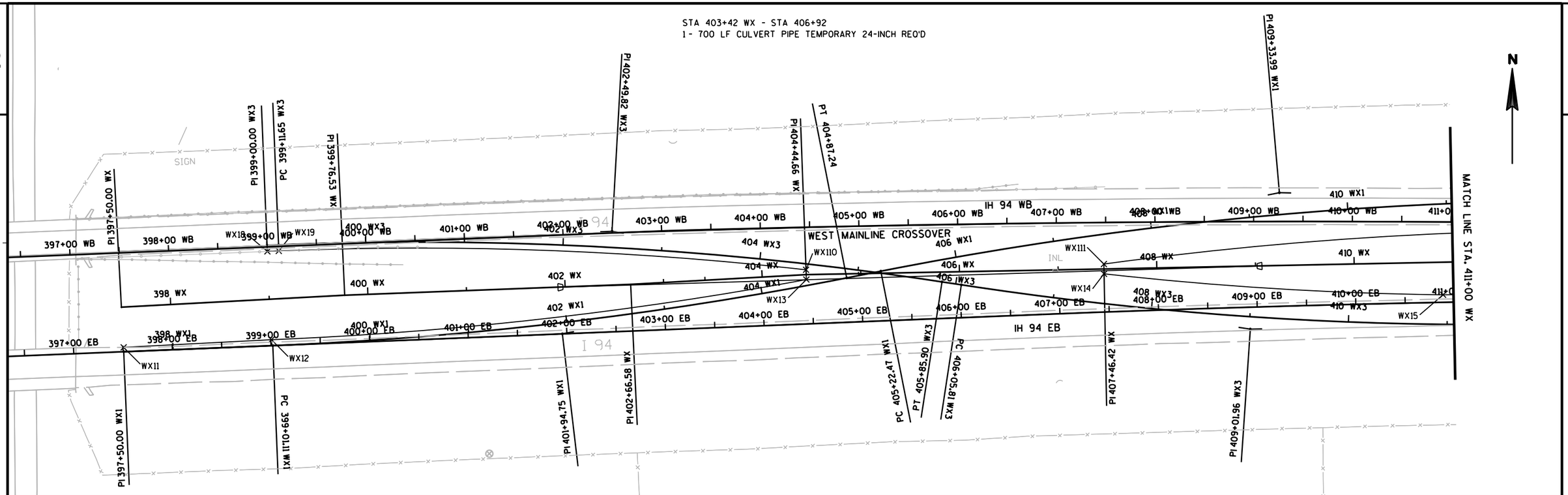
* CRASH CUSHION PAD DIMENSIONS
AS SPECIFIED BY THE MANUFACTURER

TEMPORARY CRASH CUSHION LAYOUT

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CONSTRUCTION DETAILS	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\Plan Sheets\021001_cd.dgn PLOT DATE : 4/27/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :
WISDOT/CADDS SHEET 42

STA 403+42 WX - STA 406+92
1 - 700 LF CULVERT PIPE TEMPORARY 24-INCH REQ'D



WX1 ALIGNMENT

STG1WX1 PI #1
STA: 397+50.00 WX1
X: 552054.604
Y: 337122.81

STG1WX1PI # 2
PI STA: 401+94.75 WX1
X: 552498.988
Y: 337140.929
DELTA: -8°47'28.93"
DEG: 1°29'59.60"
L: 586.13'
T: 293.64'
R: 3820.00'
PC STA: 399+01.11 WX1
PT STA: 404+87.24 WX1

STG1WX1PI # 3
PI STA: 409+33.99 WX1
X: 553225.466
Y: 337283.791
DELTA: 12°17'50.53"
DEG: 1°29'59.60"
L: 819.89'
T: 411.52'
R: 3820.00'
PC STA: 405+22.47 WX1
PT STA: 413+42.35 WX1

STG1WX1 PI #4
STA: 414+79.76 WX1
X: 553774.285
Y: 337272.562

WX3 ALIGNMENT

STG3WX3 PI #1
STA: 399+00.00 WX3
X: 552199.795
Y: 337230.399

STG3WX3PI # 2
PI STA: 402+49.82 WX3
X: 552549.325
Y: 337244.668
DELTA: 11°02'15.45"
DEG: 1°38'13.28"
L: 674.25'
T: 338.17'
R: 3500.00'
PC STA: 399+11.65 WX3
PT STA: 405+85.90 WX3

STG3WX3PI # 3
PI STA: 409+01.96 WX3
X: 553196.031
Y: 337145.710
DELTA: -9°40'23.25"
DEG: 1°38'13.28"
L: 590.90'
T: 296.15'
R: 3500.00'
PC STA: 406+05.81 WX3
PT STA: 411+96.71 WX3

STG3WX3 PI #4
STA: 413+60.62 WX3
X: 553656.030
Y: 337153.525

WX ALIGNMENT

WX PI #1
STA: 397+50.00 WX
X: 552052.194
Y: 337167.870

WX PI #2
STA: 399+76.53 WX
X: 552278.395
Y: 337180.008

WX PI #3
STA: 402+66.58 WX
X: 552568.235
Y: 337191.041

WX PI #4
STA: 404+44.66 WX
X: 552746.046
Y: 337200.823

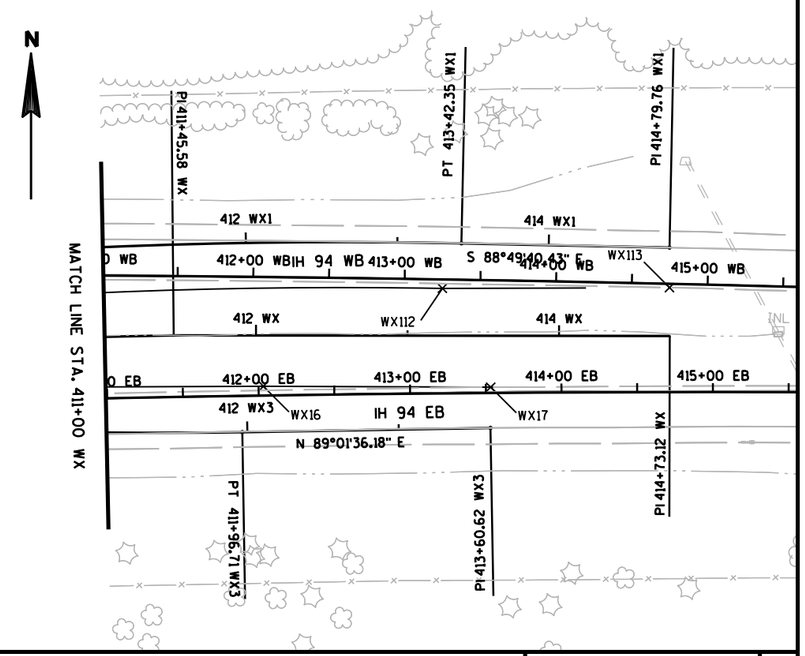
WX PI #5
STA: 407+46.42 WX
X: 553047.758
Y: 337206.600

WX PI #6
STA: 411+45.58 WX
X: 553446.834
Y: 337214.621

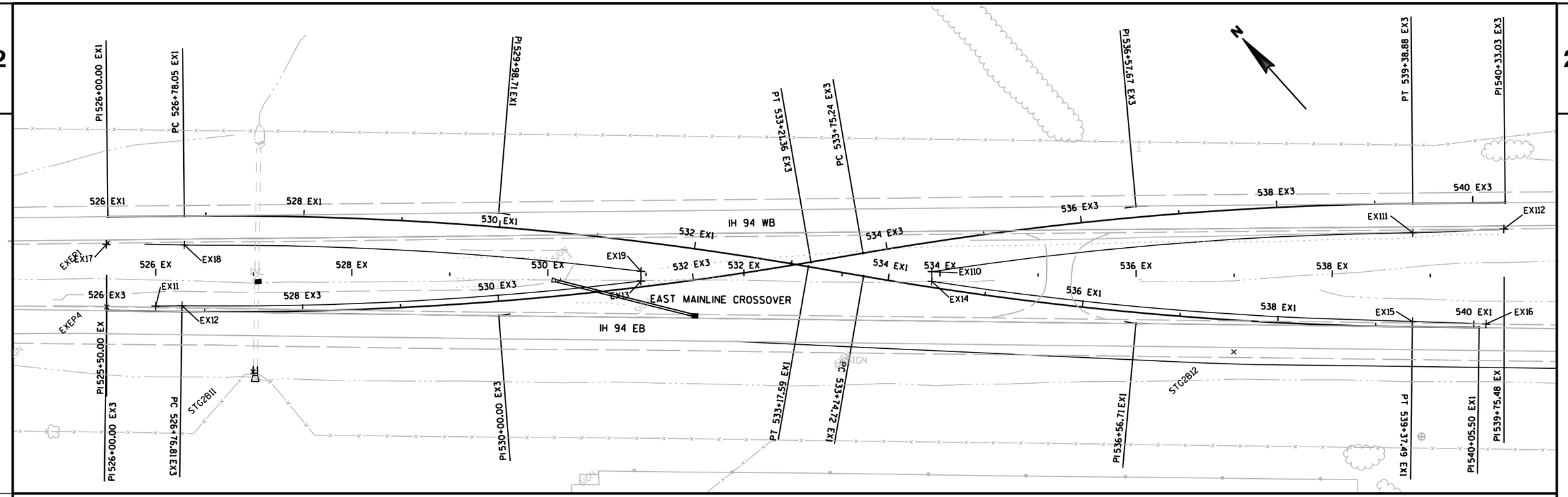
WX PI #7
STA: 414+73.12 WX
X: 553774.374
Y: 337214.152

ALL POINTS IN THIS TABLE ARE REFERENCED FROM THE WEST MAINLINE CROSSOVER ALIGNMENT

NAME	STATION	O/S	DESCRIPTION	LOCATION
WX11	397+50.00 WX	40.72' RT	MATCH PT	PAVEMENT EDGE
WX12	399+00.00 WX	41.05' RT	BEGIN CURVE	PAVEMENT EDGE
WX13	404+44.56 WX	4.94' RT	END CURVE	PAVEMENT EDGE
WX14	407+46.39 WX	4.96' RT	BEGIN CURVE	PAVEMENT EDGE
WX15	410+89.42 WX	33.04' RT	END CURVE	PAVEMENT EDGE
WX16	412+04.90 WX	33.56' RT	TAPER PT	PAVEMENT EDGE
WX17	413+54.95 WX	33.94' RT	MATCH PT	PAVEMENT EDGE
WX18	399+00.00 WX	48.53' LT	MATCH PT	PAVEMENT EDGE
WX19	399+12.31 WX	48.38' LT	BEGIN CURVE	PAVEMENT EDGE
WX110	404+44.56 WX	4.94' LT	END CURVE	PAVEMENT EDGE
WX111	407+46.46 WX	4.96' LT	BEGIN CURVE	PAVEMENT EDGE
WX112	413+22.98 WX	31.26' LT	END CURVE	PAVEMENT EDGE
WX113	414+72.95 WX	31.96' LT	MATCH PT	PAVEMENT EDGE



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	WEST MAINLINE CROSSOVER DETAIL	SHEET 33	E



EX ALIGNMENT

EX PI #1
STA: 525+50.00 EX
X: 564312.849
Y: 335065.952

EX PI #2
STA: 539+75.48 EX
X: 565370.380
Y: 334110.121

EX1 ALIGNMENT

STG1EX1 PI #1
STA: 526+00.00 EX1
X: 564353.853
Y: 335109.688

STG1EX1PI # 2
PI STA: 529+98.71 EX1
X: 564652.746
Y: 334845.807
DELTA: 10°28'09.50"
DEG: 1°38'13.28"
L: 639.53'
T: 320.66'
R: 3500.00'
PC STA: 526+78.05 EX1
PT STA: 533+17.59 EX1

STG1EX1PI # 3
PI STA: 536+56.71 EX1
X: 565059.773
Y: 334326.533
DELTA: -9°12'45.68"
DEG: 1°38'13.28"
L: 562.77'
T: 281.99'
R: 3500.00'
PC STA: 533+74.72 EX1
PT STA: 539+37.49 EX1

STG1EX1 PI #4
STA: 540+05.50 EX1
X: 565317.007
Y: 334089.192

EX3 ALIGNMENT

STG3EX3 PI #1
STA: 526+00.00 EX3
X: 564288.895
Y: 335039.448

STG3EX3PI # 2
PI STA: 530+00.00 EX3
X: 564582.328
Y: 334767.613
DELTA: -10°33'05.27"
DEG: 1°38'13.28"
L: 644.55'
T: 323.19'
R: 3500.00'
PC STA: 526+76.81 EX3
PT STA: 533+21.36 EX3

STG3EX3PI # 3
PI STA: 536+57.67 EX3
X: 565140.023
Y: 334415.593
DELTA: 9°13'37.10"
DEG: 1°38'13.28"
L: 563.64'
T: 282.43'
R: 3500.00'
PC STA: 533+75.24 EX3
PT STA: 539+38.88 EX3

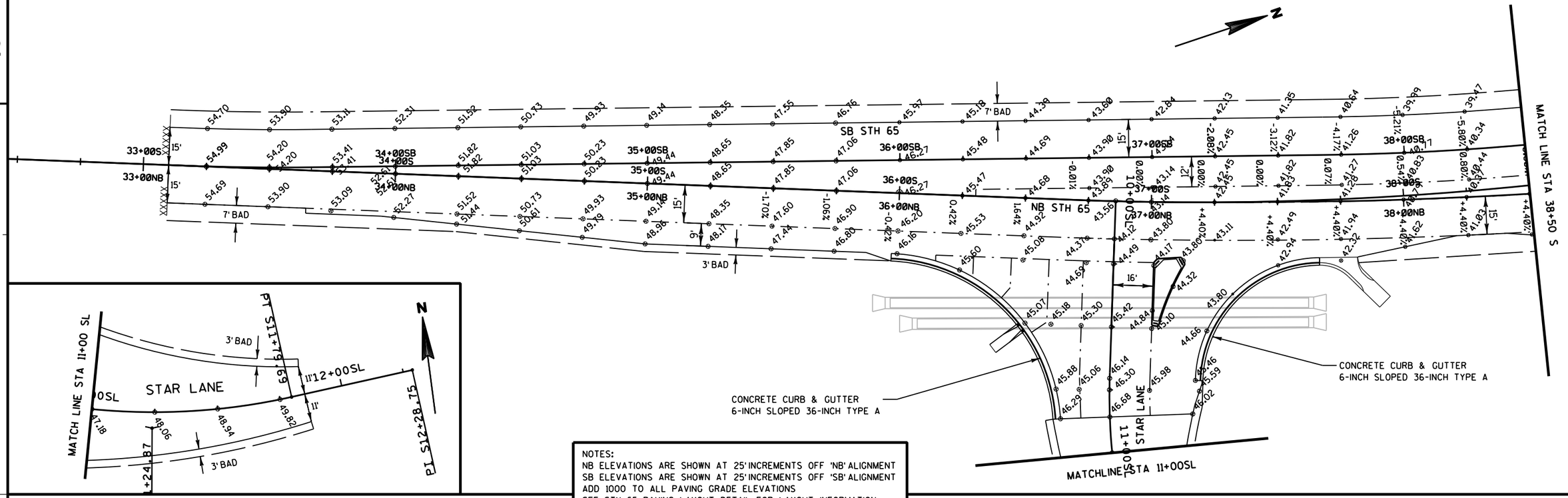
STG3EX3 PI #4
STA: 540+33.03 EX3
X: 565422.122
Y: 334166.124

ALL POINTS IN THIS TABLE ARE REFERENCED FROM THE EAST MAINLINE CROSSOVER ALIGNMENT

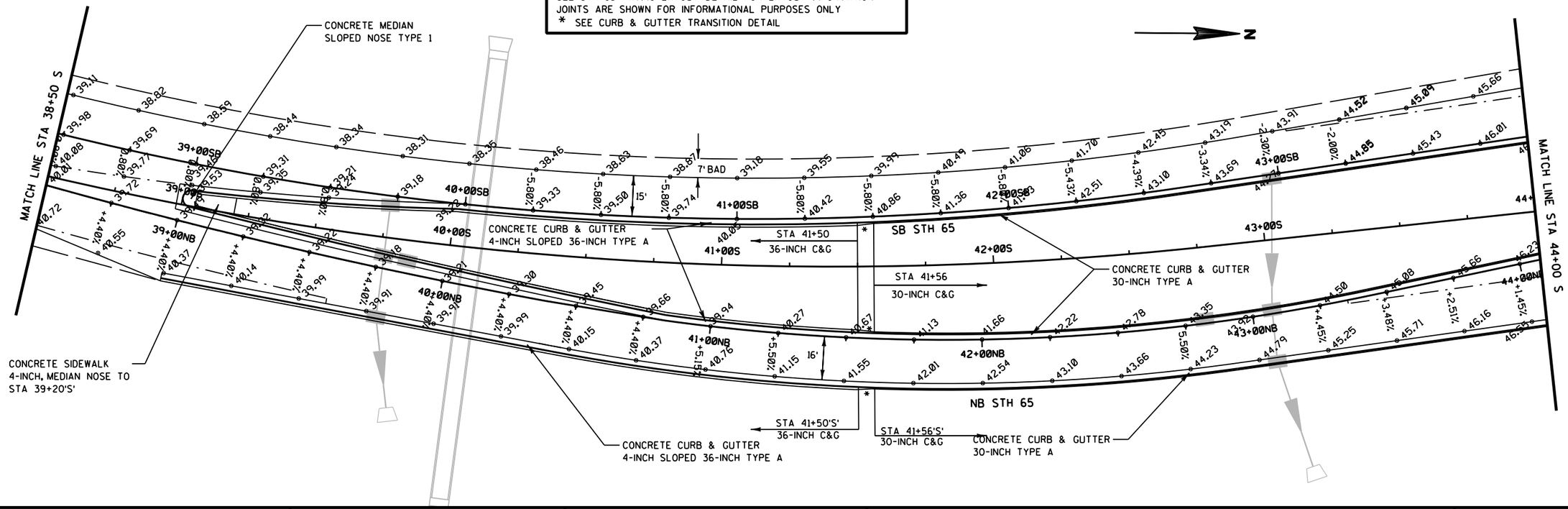
NAME	STATION	O/S	DESCRIPTION	LOCATION
EX11	526+00.00 EX	31.16' RT	MATCH PT	PAVEMENT EDGE
EX12	526+26.88 EX	30.67' RT	BEGIN CURVE	PAVEMENT EDGE
EX13	530+94.98 EX	4.96' RT	END CURVE	PAVEMENT EDGE
EX14	533+91.59 EX	4.94' RT	BEGIN CURVE	PAVEMENT EDGE
EX15	538+81.91 EX	45.19' RT	END CURVE	PAVEMENT EDGE
EX16	539+56.94 EX	47.71' RT	MATCH PT	PAVEMENT EDGE
EX17	525+00.00 EX	31.71' LT	MATCH PT	PAVEMENT EDGE
EX18	526+29.14 EX	31.32' LT	BEGIN CURVE	PAVEMENT EDGE
EX19	530+94.98 EX	4.96' LT	END CURVE	PAVEMENT EDGE
EX110	533+91.58 EX	4.94' LT	BEGIN CURVE	PAVEMENT EDGE
EX111	538+82.17 EX	45.34' LT	END CURVE	PAVEMENT EDGE
EX112	539+75.48 EX	49.35' LT	MATCH PT	PAVEMENT EDGE

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	EAST MAINLINE CROSSOVER DETAIL	SHEET 34	E

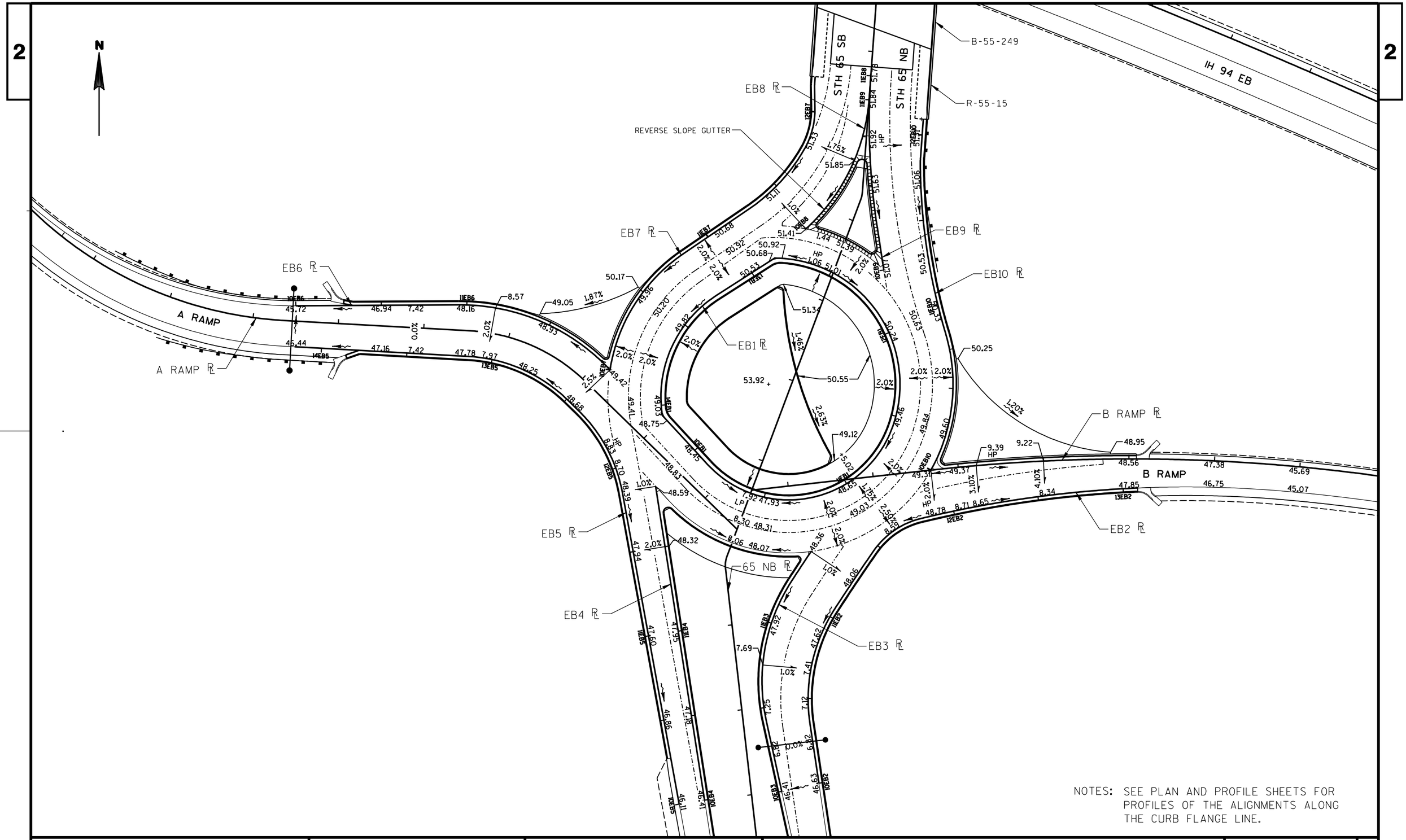
2



NOTES:
NB ELEVATIONS ARE SHOWN AT 25'INCREMENTS OFF 'NB' ALIGNMENT
SB ELEVATIONS ARE SHOWN AT 25'INCREMENTS OFF 'SB' ALIGNMENT
ADD 1000 TO ALL PAVING GRADE ELEVATIONS
SEE STH 65 PAVING LAYOUT DETAIL FOR LAYOUT INFORMATION
JOINTS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY
* SEE CURB & GUTTER TRANSITION DETAIL



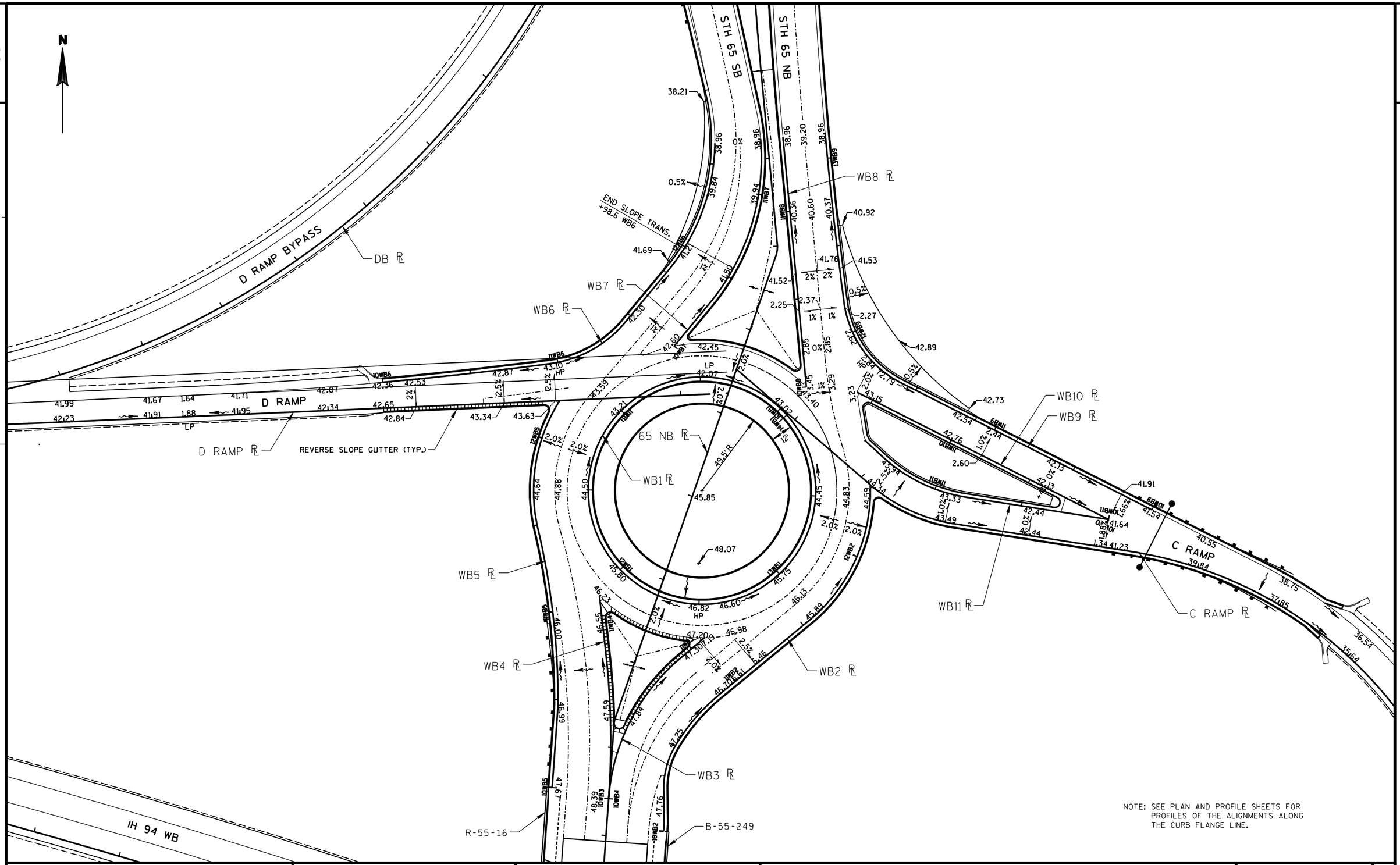
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	STH 65 PAVING GRADES DETAIL	SHEET 35	E



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	INTERSECTION DETAIL - STH 65	SHEET	E

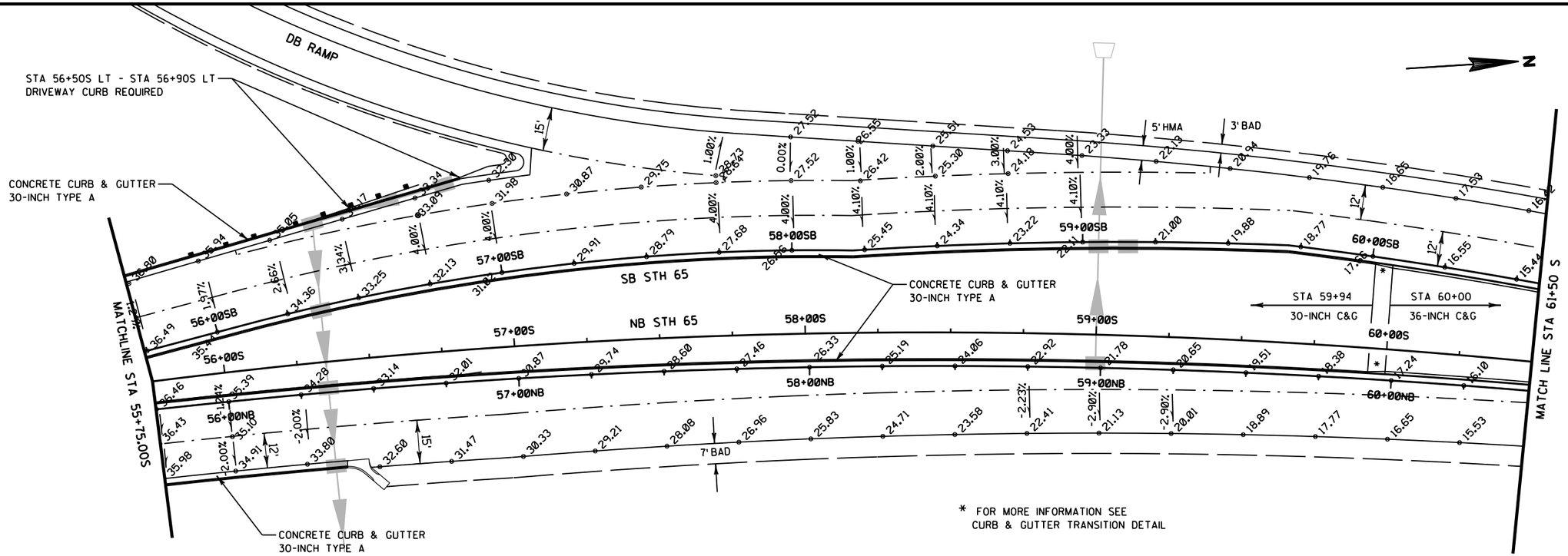
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2

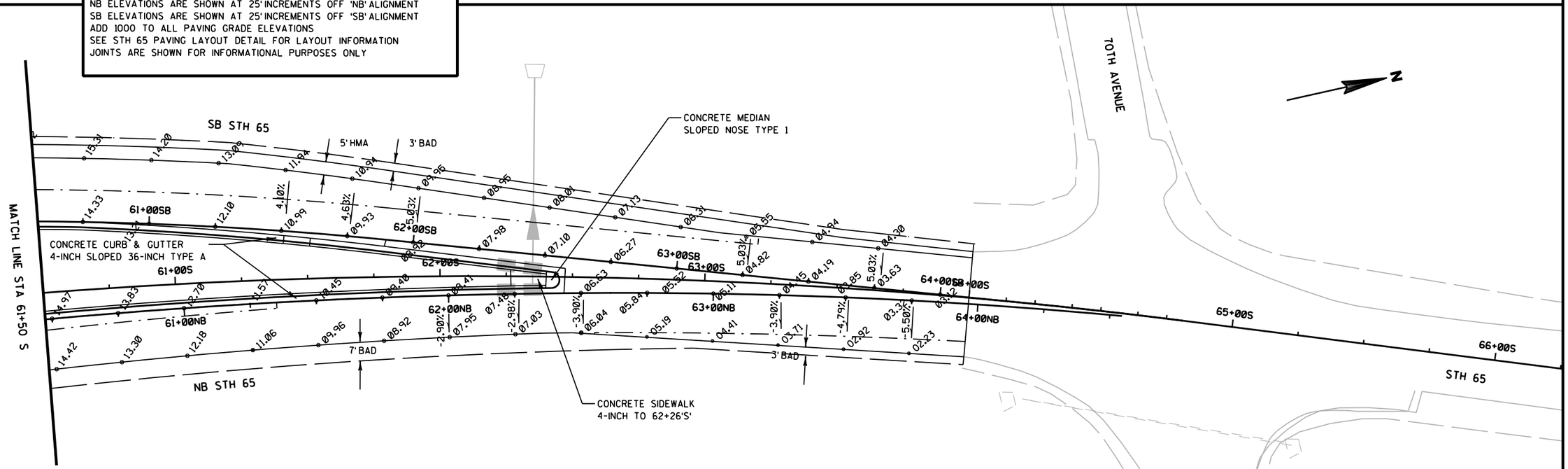


NOTE: SEE PLAN AND PROFILE SHEETS FOR PROFILES OF THE ALIGNMENTS ALONG THE CURB FLANGE LINE.

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	INTERSECTION DETAIL - STH 65	SHEET 37	E



NOTES:
NB ELEVATIONS ARE SHOWN AT 25'INCREMENTS OFF 'NB' ALIGNMENT
SB ELEVATIONS ARE SHOWN AT 25'INCREMENTS OFF 'SB' ALIGNMENT
ADD 1000 TO ALL PAVING GRADE ELEVATIONS
SEE STH 65 PAVING LAYOUT DETAIL FOR LAYOUT INFORMATION
JOINTS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	STH 65 PAVING GRADES DETAIL	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\DETAILS\020602_pg.dgn PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

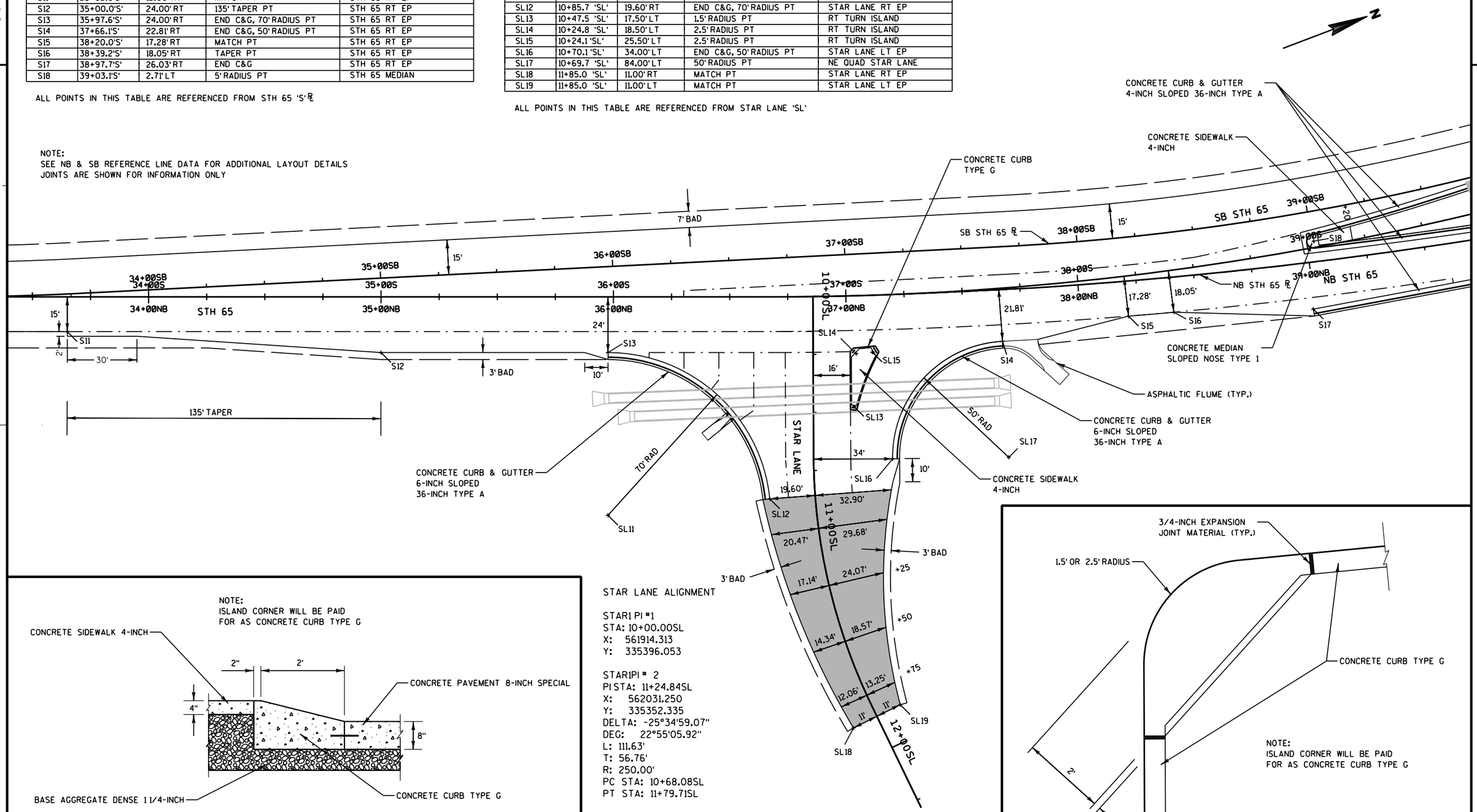
NAME	STA	O/S	DESCRIPTION	LOCATION
S11	33+65.0'S'	15.00'RT	MATCH PT	STH 65 RT EP
S12	35+00.0'S'	24.00'RT	135'TAPER PT	STH 65 RT EP
S13	35+97.6'S'	24.00'RT	END C&G, 70'RADIUS PT	STH 65 RT EP
S14	37+66.1'S'	22.81'RT	END C&G, 50'RADIUS PT	STH 65 RT EP
S15	38+20.0'S'	17.28'RT	MATCH PT	STH 65 RT EP
S16	38+39.2'S'	18.05'RT	TAPER PT	STH 65 RT EP
S17	38+97.7'S'	26.03'RT	END C&G	STH 65 RT EP
S18	39+03.1'S'	2.71'LT	5'RADIUS PT	STH 65 MEDIAN

ALL POINTS IN THIS TABLE ARE REFERENCED FROM STH 65 'S'

NAME	STA	O/S	DESCRIPTION	LOCATION
SL11	10+87.1 'SL'	89.60'RT	70'RADIUS PT	SE QUAD STAR LANE
SL12	10+85.7 'SL'	19.60'RT	END C&G, 70'RADIUS PT	STAR LANE RT EP
SL13	10+47.5 'SL'	17.50'LT	1.5'RADIUS PT	RT TURN ISLAND
SL14	10+24.8 'SL'	18.50'LT	2.5'RADIUS PT	RT TURN ISLAND
SL15	10+24.1 'SL'	25.50'LT	2.5'RADIUS PT	RT TURN ISLAND
SL16	10+70.1 'SL'	34.00'LT	END C&G, 50'RADIUS PT	STAR LANE LT EP
SL17	10+69.7 'SL'	84.00'LT	50'RADIUS PT	NE QUAD STAR LANE
SL18	11+85.0 'SL'	11.00'RT	MATCH PT	STAR LANE RT EP
SL19	11+85.0 'SL'	11.00'LT	MATCH PT	STAR LANE LT EP

ALL POINTS IN THIS TABLE ARE REFERENCED FROM STAR LANE 'SL'

NOTE:
SEE NB & SB REFERENCE LINE DATA FOR ADDITIONAL LAYOUT DETAILS
JOINTS ARE SHOWN FOR INFORMATION ONLY



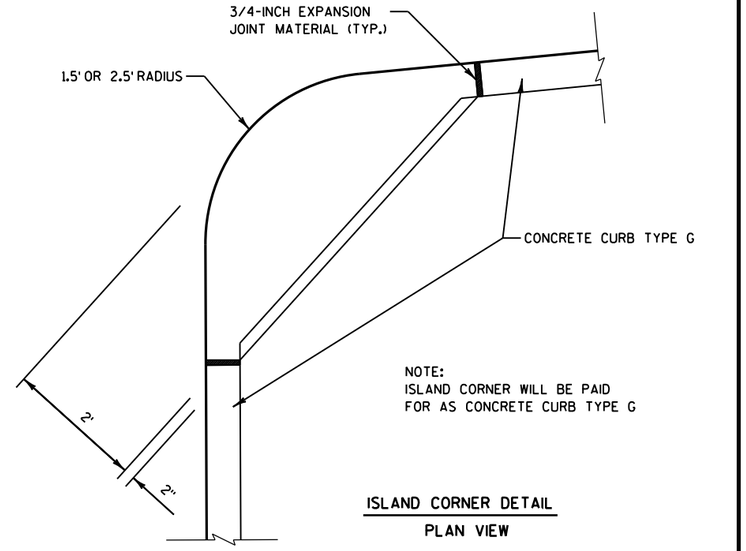
STAR LANE ALIGNMENT

STAR1 PI #1
STA: 10+00.00SL
X: 561914.313
Y: 335396.053

STAR1PI # 2
PI STA: 11+24.84SL
X: 562031.250
Y: 335352.335
DELTA: -25°34'59.07"
DEG: 22°55'05.92"
L: 111.63'
T: 56.76'
R: 250.00'
PC STA: 10+68.08SL
PT STA: 11+79.71SL

STAR1 PI #3
STA: 12+28.74SL
X: 562136.625
Y: 335361.710

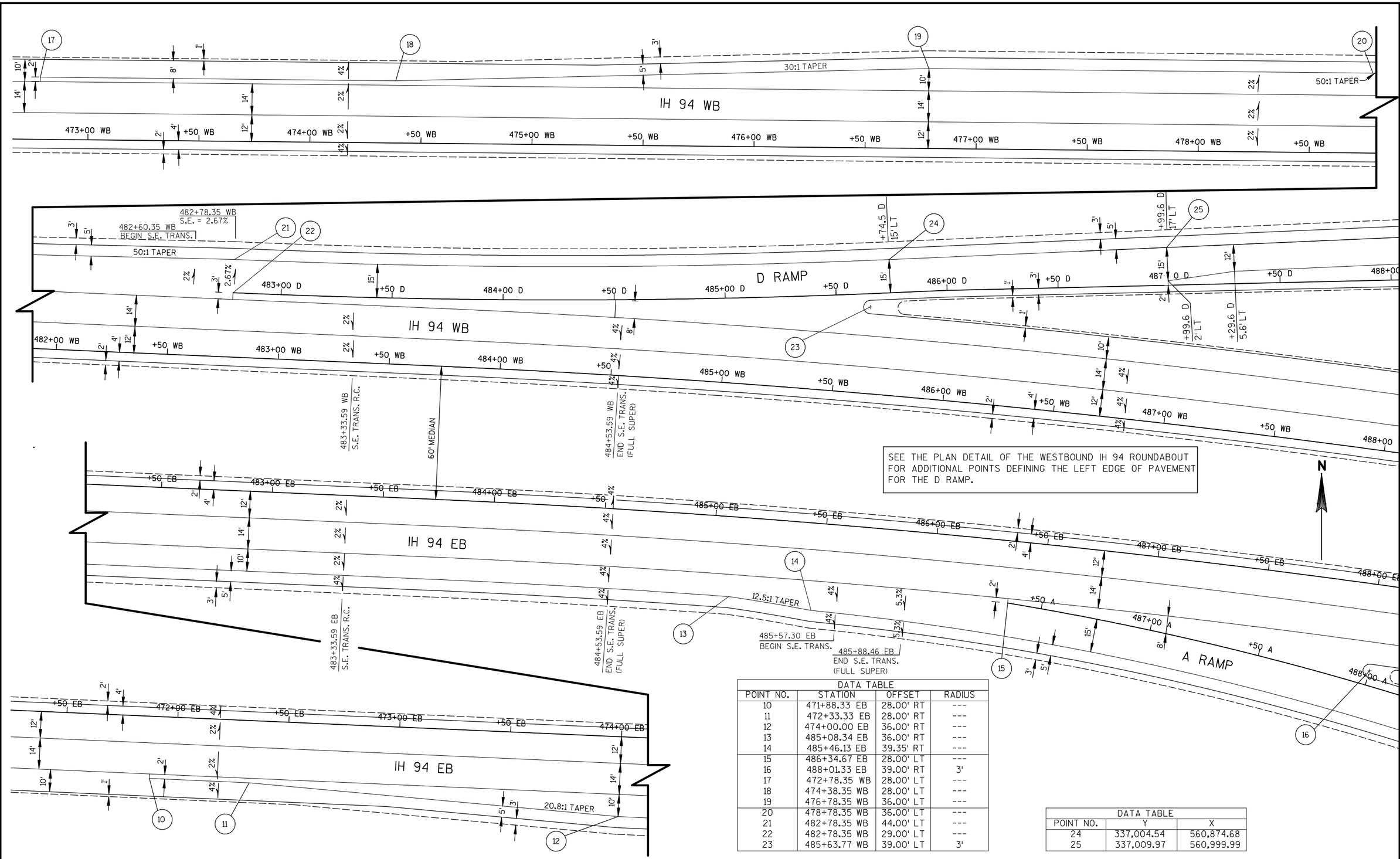
ISLAND CORNER DETAIL
PROFILE VIEW



ISLAND CORNER DETAIL
PLAN VIEW

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	STAR AVENUE INTERSECTION DETAIL	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\DETAILS\021103_id.dgn PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :
WISDOT/CADDS SHEET 42



SEE THE PLAN DETAIL OF THE WESTBOUND IH 94 ROUNDABOUT FOR ADDITIONAL POINTS DEFINING THE LEFT EDGE OF PAVEMENT FOR THE D RAMP.

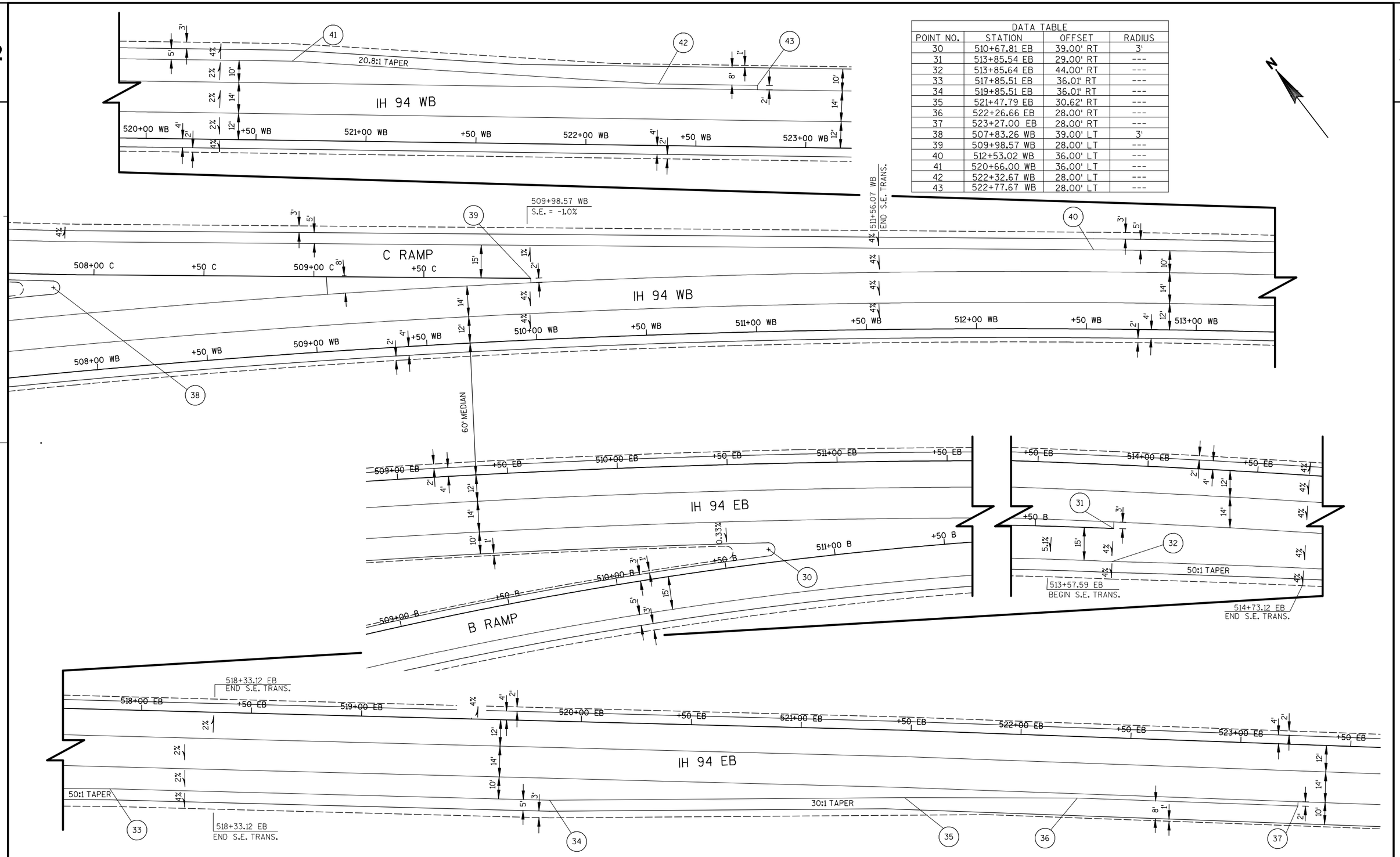
DATA TABLE			
POINT NO.	STATION	OFFSET	RADIUS
10	471+88.33 EB	28.00' RT	---
11	472+33.33 EB	28.00' RT	---
12	474+00.00 EB	36.00' RT	---
13	485+08.34 EB	36.00' RT	---
14	485+46.13 EB	39.35' RT	---
15	486+34.67 EB	28.00' LT	---
16	488+01.33 EB	39.00' RT	3'
17	472+78.35 WB	28.00' LT	---
18	474+38.35 WB	28.00' LT	---
19	476+78.35 WB	36.00' LT	---
20	478+78.35 WB	36.00' LT	---
21	482+78.35 WB	44.00' LT	---
22	482+78.35 WB	29.00' LT	---
23	485+63.77 WB	39.00' LT	3'

DATA TABLE		
POINT NO.	Y	X
24	337,004.54	560,874.68
25	337,009.97	560,999.99

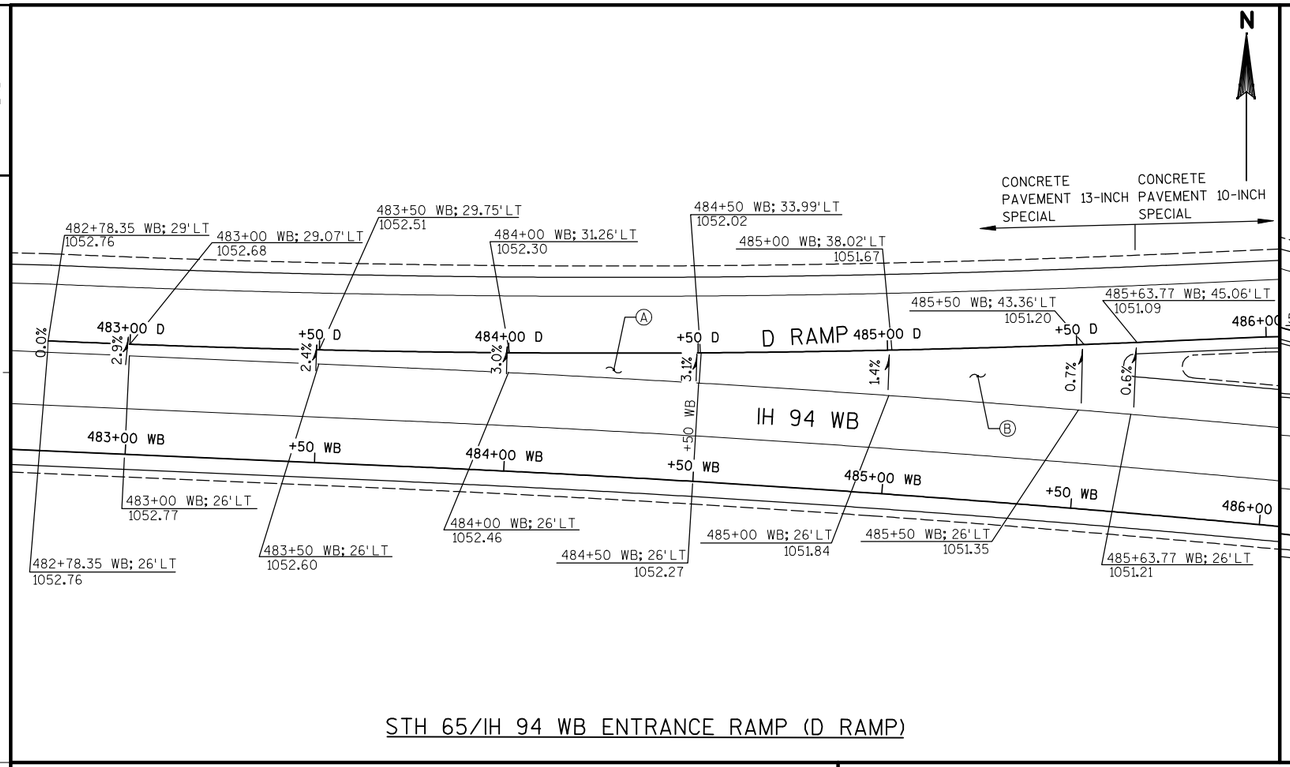
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PAVING DETAILS	SHEET 40	E

2

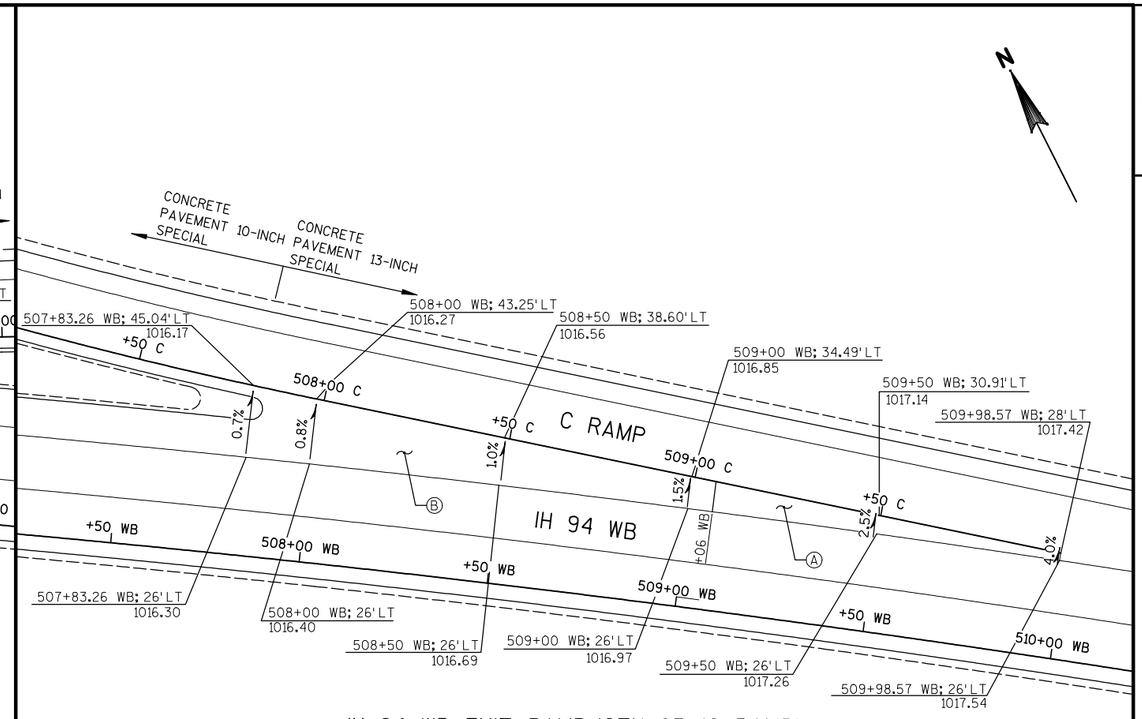
DATA TABLE			
POINT NO.	STATION	OFFSET	RADIUS
30	510+67.81 EB	39.00' RT	3'
31	513+85.54 EB	29.00' RT	---
32	513+85.64 EB	44.00' RT	---
33	517+85.51 EB	36.01' RT	---
34	519+85.51 EB	36.01' RT	---
35	521+47.79 EB	30.62' RT	---
36	522+26.66 EB	28.00' RT	---
37	523+27.00 EB	28.00' RT	---
38	507+83.26 WB	39.00' LT	3'
39	509+98.57 WB	28.00' LT	---
40	512+53.02 WB	36.00' LT	---
41	520+66.00 WB	36.00' LT	---
42	522+32.67 WB	28.00' LT	---
43	522+77.67 WB	28.00' LT	---



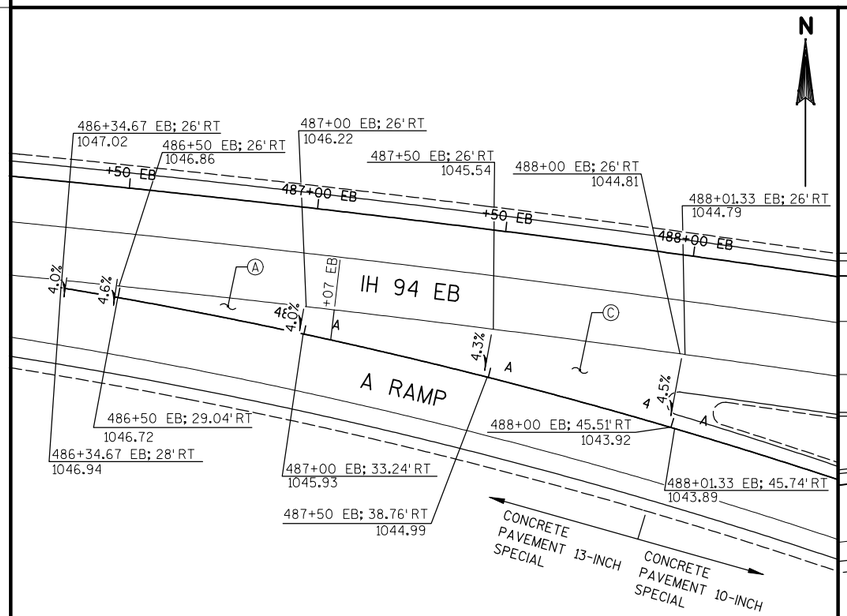
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PAVING DETAILS	SHEET 41	E



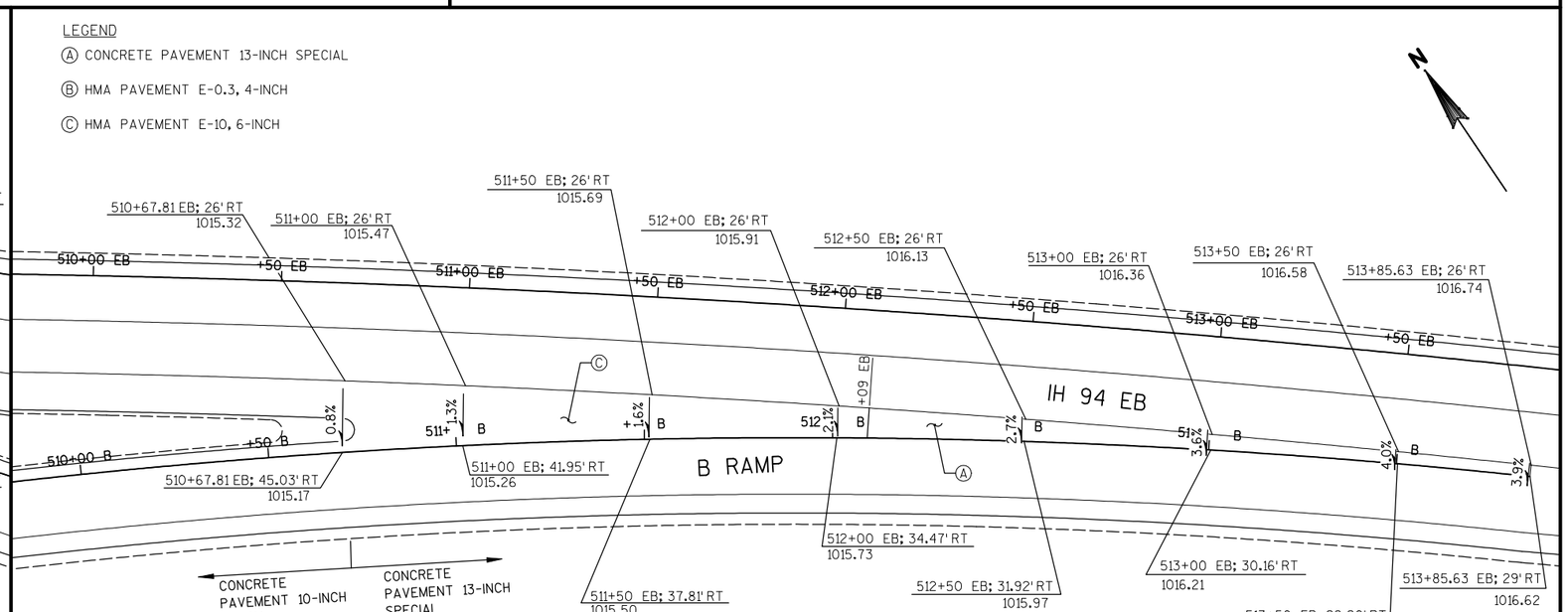
STH 65/IH 94 WB ENTRANCE RAMP (D RAMP)



IH 94 WB EXIT RAMP/STH 65 (C RAMP)



IH 94 EB EXIT RAMP/STH 65 (A RAMP)

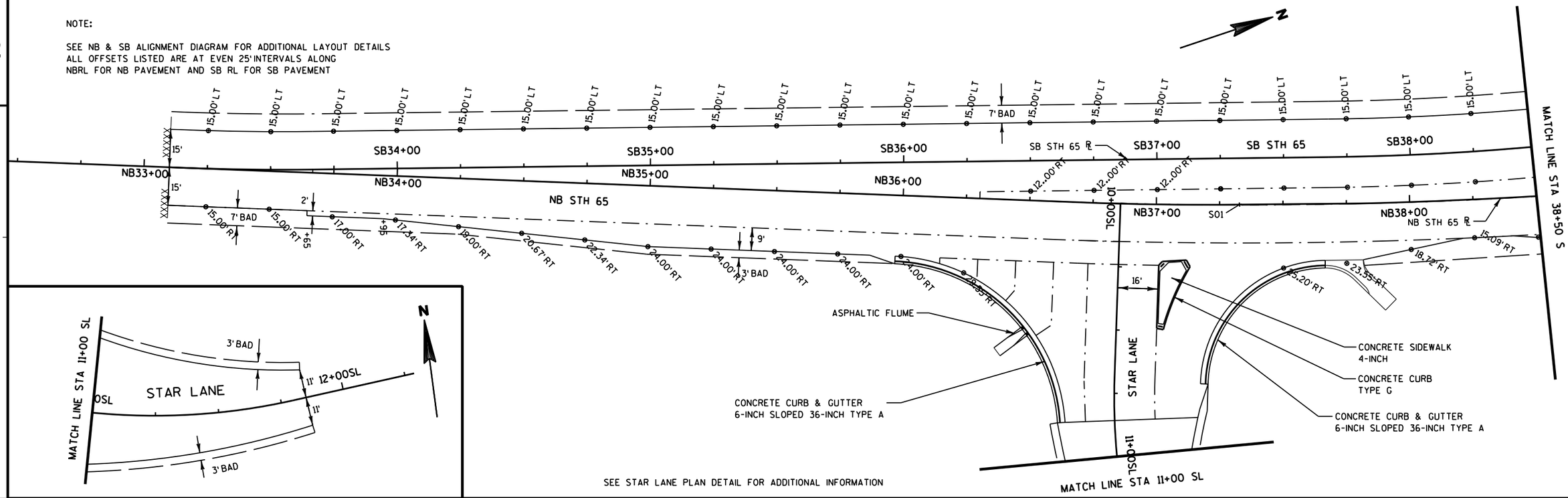


STH 65/IH 94 EB ENTRANCE RAMP (B RAMP)

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PAVING DETAILS - RAMP GORES	SHEET 42	E

NOTE:

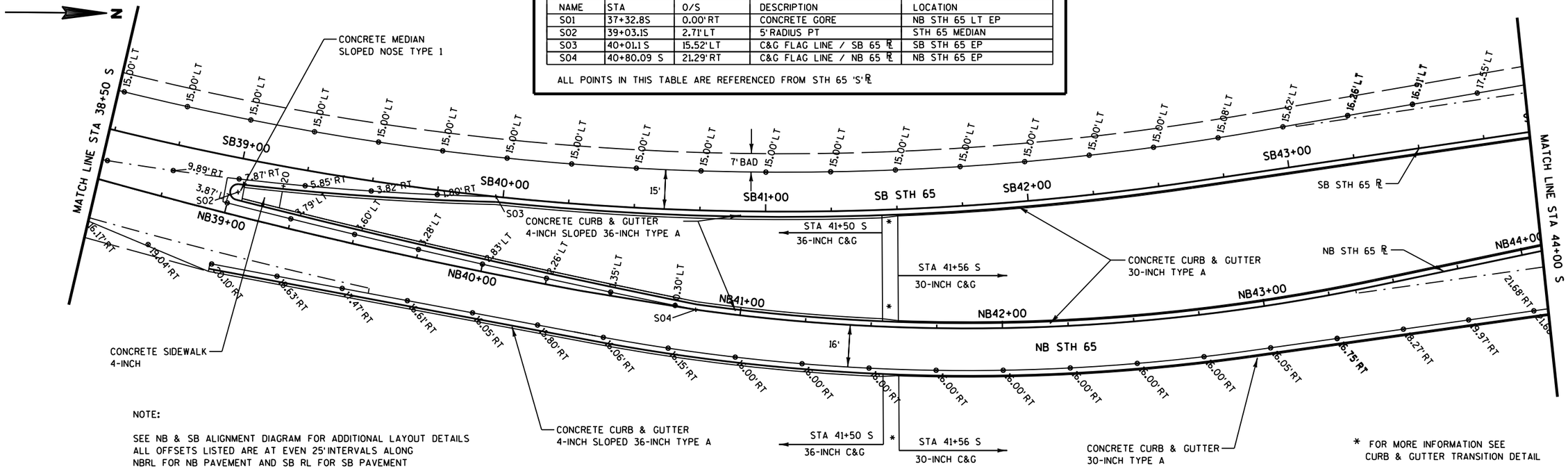
SEE NB & SB ALIGNMENT DIAGRAM FOR ADDITIONAL LAYOUT DETAILS
ALL OFFSETS LISTED ARE AT EVEN 25'INTERVALS ALONG
NBRL FOR NB PAVEMENT AND SB RL FOR SB PAVEMENT



SEE STAR LANE PLAN DETAIL FOR ADDITIONAL INFORMATION

NAME	STA	O/S	DESCRIPTION	LOCATION
S01	37+32.8S	0.00'RT	CONCRETE GORE	NB STH 65 LT EP
S02	39+03.1S	2.71'LT	5'RADIUS PT	STH 65 MEDIAN
S03	40+01.1 S	15.52'LT	C&G FLAG LINE / SB 65 ℄	SB STH 65 EP
S04	40+80.09 S	21.29'RT	C&G FLAG LINE / NB 65 ℄	NB STH 65 EP

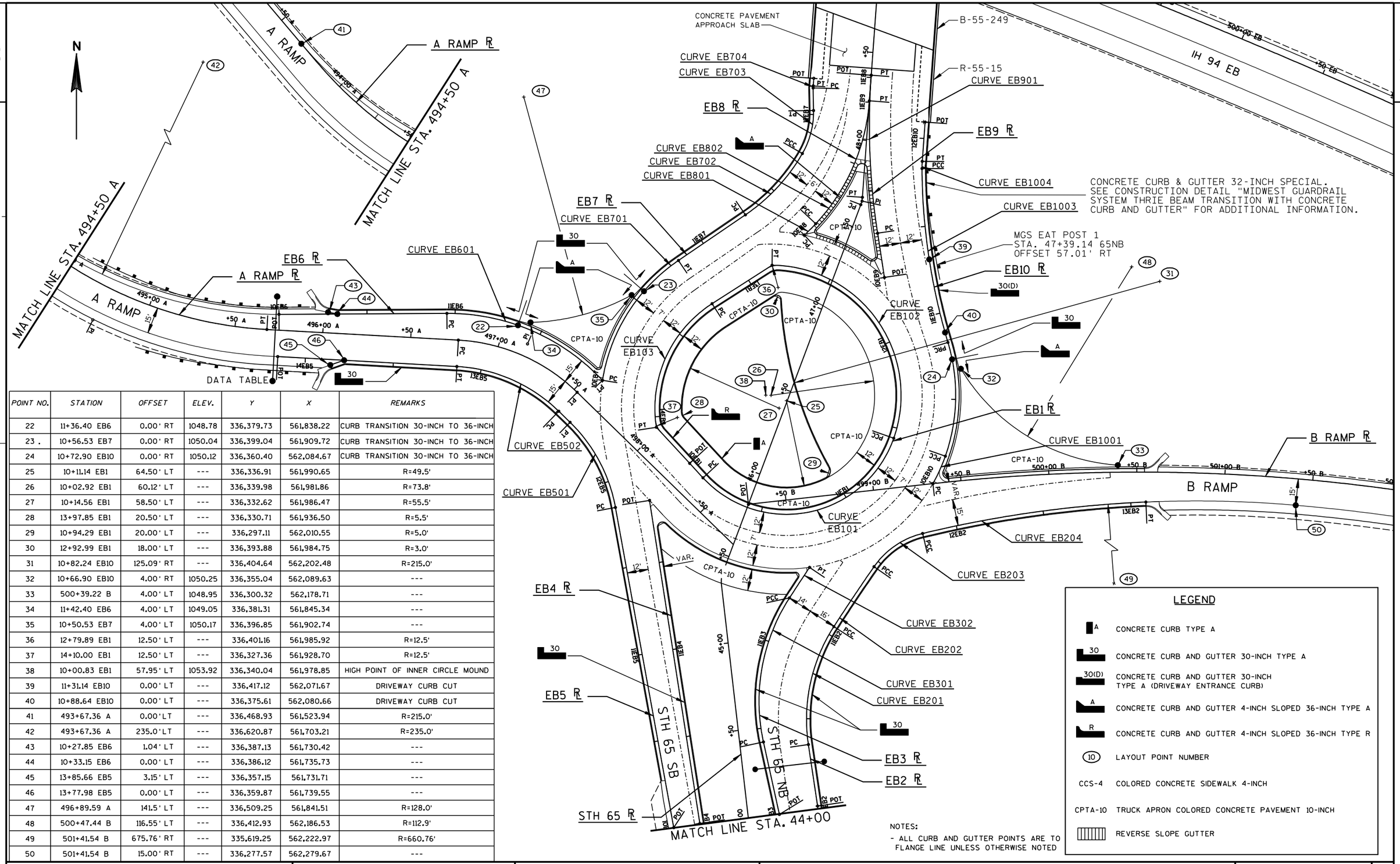
ALL POINTS IN THIS TABLE ARE REFERENCED FROM STH 65 'S'℄



NOTE:

SEE NB & SB ALIGNMENT DIAGRAM FOR ADDITIONAL LAYOUT DETAILS
ALL OFFSETS LISTED ARE AT EVEN 25'INTERVALS ALONG
NBRL FOR NB PAVEMENT AND SB RL FOR SB PAVEMENT

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	STH 65 PAVING LAYOUT DETAIL	SHEET 43	E



POINT NO.	STATION	OFFSET	ELEV.	Y	X	REMARKS
22	11+36.40 EB6	0.00' RT	1048.78	336,379.73	561,838.22	CURB TRANSITION 30-INCH TO 36-INCH
23 .	10+56.53 EB7	0.00' RT	1050.04	336,399.04	561,909.72	CURB TRANSITION 30-INCH TO 36-INCH
24	10+72.90 EB10	0.00' RT	1050.12	336,360.40	562,084.67	CURB TRANSITION 30-INCH TO 36-INCH
25	10+11.14 EB1	64.50' LT	---	336,336.91	561,990.65	R=49.5'
26	10+02.92 EB1	60.12' LT	---	336,339.98	561,981.86	R=73.8'
27	10+14.56 EB1	58.50' LT	---	336,332.62	561,986.47	R=55.5'
28	13+97.85 EB1	20.50' LT	---	336,330.71	561,936.50	R=5.5'
29	10+94.29 EB1	20.00' LT	---	336,297.11	562,010.55	R=5.0'
30	12+92.99 EB1	18.00' LT	---	336,393.88	561,984.75	R=3.0'
31	10+82.24 EB10	125.09' RT	---	336,404.64	562,202.48	R=215.0'
32	10+66.90 EB10	4.00' RT	1050.25	336,355.04	562,089.63	---
33	500+39.22 B	4.00' LT	1048.95	336,300.32	562,178.71	---
34	11+42.40 EB6	4.00' LT	1049.05	336,381.31	561,845.34	---
35	10+50.53 EB7	4.00' LT	1050.17	336,396.85	561,902.74	---
36	12+79.89 EB1	12.50' LT	---	336,401.16	561,985.92	R=12.5'
37	14+10.00 EB1	12.50' LT	---	336,327.36	561,928.70	R=12.5'
38	10+00.83 EB1	57.95' LT	1053.92	336,340.04	561,978.85	HIGH POINT OF INNER CIRCLE MOUND
39	11+31.14 EB10	0.00' LT	---	336,417.12	562,071.67	DRIVEWAY CURB CUT
40	10+88.64 EB10	0.00' LT	---	336,375.61	562,080.66	DRIVEWAY CURB CUT
41	493+67.36 A	0.00'LT	---	336,468.93	561,523.94	R=215.0'
42	493+67.36 A	235.0'LT	---	336,620.87	561,703.21	R=235.0'
43	10+27.85 EB6	1.04' LT	---	336,387.13	561,730.42	---
44	10+33.15 EB6	0.00' LT	---	336,386.12	561,735.73	---
45	13+85.66 EB5	3.15' LT	---	336,357.15	561,731.71	---
46	13+77.98 EB5	0.00' LT	---	336,359.87	561,739.55	---
47	496+89.59 A	141.5' LT	---	336,509.25	561,841.51	R=128.0'
48	500+47.44 B	116.55' LT	---	336,412.93	562,186.53	R=112.9'
49	501+41.54 B	675.76' RT	---	335,619.25	562,222.97	R=660.76'
50	501+41.54 B	15.00' RT	---	336,277.57	562,279.67	---

LEGEND

- A — CONCRETE CURB TYPE A
- 30 — CONCRETE CURB AND GUTTER 30-INCH TYPE A
- 30(D) — CONCRETE CURB AND GUTTER 30-INCH TYPE A (DRIVEWAY ENTRANCE CURB)
- A — CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
- R — CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE R
- (10) — LAYOUT POINT NUMBER
- CCS-4 — COLORED CONCRETE SIDEWALK 4-INCH
- CPTA-10 — TRUCK APRON COLORED CONCRETE PAVEMENT 10-INCH
- REVERSE SLOPE GUTTER

NOTES:
- ALL CURB AND GUTTER POINTS ARE TO FLANGE LINE UNLESS OTHERWISE NOTED

PROJECT NO: 1020-07-74 | HWY: IH 94 | COUNTY: ST. CROIX | PLAN DETAIL - STH 65 | SHEET 44 | E

EB1 LINE

POT = 10+00.00 EB1
Y = 336,301.35
X = 561,935.70

CURVE EB101
P.I. = 11+18.56 EB1
Y = 336,214.23
X = 562,016.11
DELTA = 118° 02' 02" (LT)
D = 88° 49' 50"
T = 107.42
L = 132.88
R = 64.50
P.C. = 10+11.14 EB1
Y = 336,293.17
X = 561,943.26
P.C.C. = 11+44.01 EB1
Y = 336,315.64
X = 562,051.54

CURVE EB102
P.I. = 12+47.11 EB1
Y = 336,412.96
X = 562,085.55
DELTA = 108° 47' 55" (LT)
D = 77° 37' 29"
T = 103.10
L = 140.16
R = 73.81
P.C.C. = 11+44.01 EB1
Y = 336,315.64
X = 562,051.54
P.T. = 12+84.17 EB1
Y = 336,413.79
X = 561,982.46

CURVE EB103
P.I. = 13+70.51 EB1
Y = 336,367.19
X = 561,909.78
DELTA = 66° 07' 36" (LT)
D = 81° 16' 14"
T = 45.89
L = 81.37
R = 70.50
P.C. = 13+24.62 EB1
Y = 336,391.96
X = 561,948.41
P.T. = 14+05.98 EB1
Y = 336,321.84
X = 561,916.80

P.I. = 14+33.86 EB1
Y = 336,301.35
X = 561,935.70

EB2 LINE

POT = 10+00.00 EB2
Y = 336,106.84
X = 562,008.28

CURVE EB201
P.I. = 10+71.92 EB2
Y = 336,177.98
X = 561,997.68
DELTA = 41° 20' 13.12" (RT)
D = 59° 04' 04.13"
T = 36.59
L = 69.98
R = 97.00
P.C. = 10+35.32 EB2
Y = 336,141.78
X = 562,003.07
P.C.C. = 11+05.31 EB2
Y = 336,208.71
X = 562,017.54

CURVE EB202
P.I. = 11+25.77 EB2
Y = 336,225.90
X = 562,028.65
DELTA = 1° 57' 02.41" (RT)
D = 4° 46' 00.13"
T = 20.46
L = 40.92
R = 1,202.00
P.C.C. = 11+05.31 EB2
Y = 336,208.71
X = 562,017.54
P.C.C. = 11+46.23 EB2
Y = 336,242.70
X = 562,040.33

CURVE EB203
P.I. = 11+64.09 EB2
Y = 336,257.36
X = 562,050.53
DELTA = 41° 36' 32.77" (RT)
D = 121° 54' 21.29"
T = 17.86
L = 34.13
R = 47.00
P.C.C. = 11+46.23 EB2
Y = 336,242.70
X = 562,040.33
P.C.C. = 11+80.36 EB2
Y = 336,261.55
X = 562,067.88

CURVE EB204
P.I. = 12+44.65 EB2
Y = 336,276.64
X = 562,130.38
DELTA = 11° 06' 53.09" (RT)
D = 8° 40' 16.10"
T = 64.29
L = 128.18
R = 660.76
P.C.C. = 11+80.36 EB2
Y = 336,261.55
X = 562,067.88
P.T. = 13+08.54 EB2
Y = 336,279.40
X = 562,194.61

EB3 LINE

POT = 10+00.00 EB3
Y = 336,102.09
X = 561,986.59

CURVE EB301
P.I. = 10+87.13 EB3
Y = 336,187.20
X = 561,967.92
DELTA = 45° 14' 17.91" (RT)
D = 53° 03' 05.93"
T = 45.00
L = 85.27
R = 108.00
P.C. = 10+42.13 EB3
Y = 336,143.24
X = 561,977.57
P.C.C. = 11+27.41 EB3
Y = 336,224.99
X = 561,992.34

CURVE EB302
P.I. = 11+37.77 EB3
Y = 336,233.70
X = 561,997.97
DELTA = 0° 57' 51.92" (RT)
D = 4° 39' 02.27"
T = 10.37
L = 20.74
R = 1,232.00
P.C.C. = 11+27.41 EB3
Y = 336,224.99
X = 561,992.34
P.T. = 11+48.14 EB3
Y = 336,242.32
X = 562,003.74

EB4 LINE

POT = 10+00.00 EB4
Y = 336,096.90
X = 561,941.48

POT = 11+85.64 EB4
Y = 336,280.33
X = 561,912.92

EB5 LINE

POT = 10+00.00 EB5
Y = 336,094.59
X = 561,926.66

CURVE EB501
P.I. = 12+13.46 EB5
Y = 336,304.60
X = 561,888.40
DELTA = 35° 25' 24.14" (LT)
D = 63° 39' 43.12"
T = 28.74
L = 55.64
R = 90.00
P.C. = 11+84.72 EB5
Y = 336,276.32
X = 561,893.55
P.T. = 12+40.36 EB5
Y = 336,324.65
X = 561,867.81

CURVE EB502
P.I. = 12+83.08 EB5
Y = 336,354.47
X = 561,837.21
DELTA = 41° 05' 02.06" (LT)
D = 63° 39' 43.12"
T = 33.72
L = 64.53
R = 90.00
P.C. = 12+49.36 EB5
Y = 336,330.93
X = 561,861.37
P.T. = 13+13.89 EB5
Y = 336,356.33
X = 561,803.54

POT = 14+15.73 EB5
Y = 336,361.96
X = 561,701.86

EB6 LINE

POT = 10+00.00 EB6
Y = 336,385.93
X = 561,702.57

CURVE EB601
P.I. = 11+47.79 EB5
Y = 336,386.76
X = 561,850.37
DELTA = 47° 14' 03.99" (RT)
D = 47° 44' 47.34"
T = 52.47
L = 98.93
R = 120.00
P.C. = 10+95.32 EB5
Y = 336,386.47
X = 561,797.90
P.T. = 11+94.25 EB5
Y = 336,348.44
X = 561,886.21

EB7 LINE

CURVE EB701
P.I. = 10+43.89 EB7
Y = 336,391.79
X = 561,893.05
DELTA = 46° 46' 01.20" (RT)
D = 56° 26' 56.56"
T = 43.89
L = 82.85
R = 101.50
P.C. = 10+00.00 EB7
Y = 336,348.44
X = 561,886.21
P.T. = 10+82.85 EB7
Y = 336,416.50
X = 561,929.32

CURVE EB702
P.I. = 11+53.20 EB7
Y = 336,456.11
X = 561,987.47
DELTA = 25° 40' 15.42" (LT)
D = 53° 32' 50.85"
T = 24.38
L = 47.94
R = 107.00
P.C. = 11+28.83 EB7
Y = 336,442.39
X = 561,967.32
P.C.C. = 11+76.77 EB7
Y = 336,477.21
X = 561,999.68

CURVE EB703
P.I. = 11+89.84 EB7
Y = 336,488.53
X = 562,006.23
DELTA = 31° 05' 24.69" (LT)
D = 121° 54' 21.29"
T = 13.07
L = 25.50
R = 47.00
P.C.C. = 11+76.77 EB7
Y = 336,477.21
X = 561,999.68
P.T. = 12+02.27 EB7
Y = 336,501.60
X = 562,005.99

CURVE EB704
P.I. = 12+15.67 EB7
Y = 336,514.99
X = 562,005.75
DELTA = 5° 10' 17.50" (RT)
D = 440° 44' 12.36"
T = 0.59
L = 1.17
R = 13.00
P.C. = 12+15.08 EB7
Y = 336,514.41
X = 562,005.76
P.T. = 12+16.25 EB7
Y = 336,515.58
X = 562,005.80

POT = 12+20.58 EB7
Y = 336,519.89
X = 562,006.11

EB8 LINE

CURVE EB801
P.I. = 10+04.58 EB8
Y = 336,433.99
X = 562,004.10
DELTA = 3° 49' 53.99" (LT)
D = 41° 49' 18.25"
T = 4.58
L = 9.16
R = 137.00
P.C. = 10+00.00 EB8
Y = 336,430.85
X = 562,000.76
P.C.C. = 10+09.16 EB8
Y = 336,437.34
X = 562,007.23

CURVE EB802
P.I. = 10+49.52
Y = 336,466.84
X = 562,034.77
DELTA = 38° 52' 48.78" (LT)
D = 50° 06' 16.31"
T = 40.36
L = 77.60
R = 114.35
P.C.C. = 10+09.16 EB8
Y = 336,437.34
X = 562,007.23
P.T. = 10+86.76 EB8
Y = 336,507.10
X = 562,037.68

POT = 11+01.33 EB8
Y = 336,521.63
X = 562,038.74

EB9 LINE

POT = 10+00.00 EB9
Y = 336,406.85
X = 562,046.23

CURVE EB901
P.I. = 10+70.56 EB9
Y = 336,476.58
X = 562,035.47
DELTA = 12° 54' 59.13" (RT)
D = 14° 21' 35.44"
T = 45.17
L = 89.95
R = 399.00
P.C. = 10+25.39 EB9
Y = 336,431.95
X = 562,042.36
P.T. = 11+15.34 EB9
Y = 336,521.63
X = 562,038.74

EB10 LINE

CURVE EB1001
P.I. = 10+08.59 EB10
Y = 336,297.31
X = 562,077.98
DELTA = 10° 16' 26.48" (LT)
D = 59° 59' 44.09"
T = 8.59
L = 17.12
R = 95.50
P.C. = 10+00.00 EB10
Y = 336,289.84
X = 562,073.75
P.C.C. = 10+17.12 EB10
Y = 336,305.41
X = 562,080.81

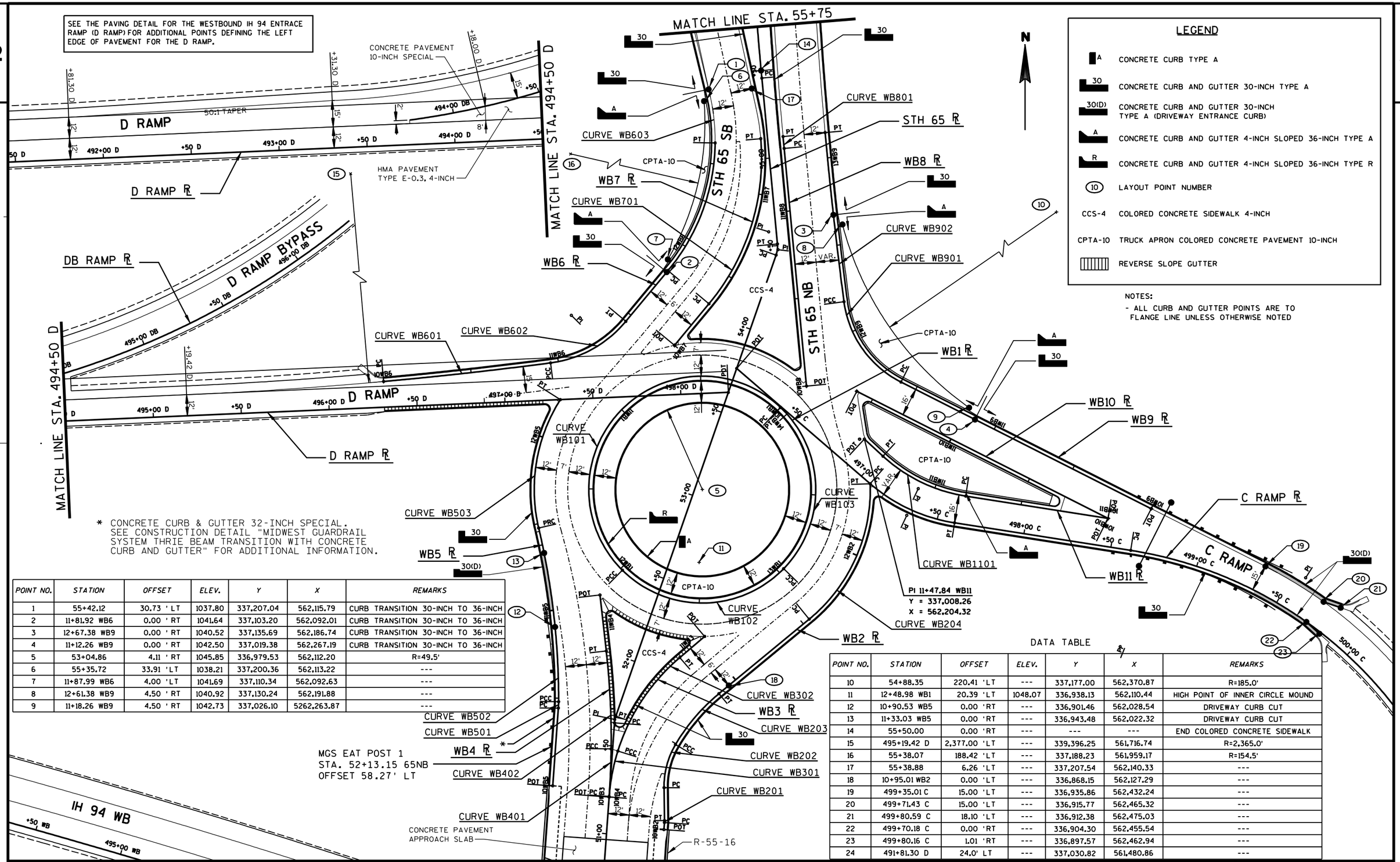
CURVE EB1002
P.I. = 10+51.07 EB10
Y = 336,337.46
X = 562,092.01
DELTA = 35° 53' 39.78" (LT)
D = 54° 39' 54.83"
T = 33.95
L = 65.66
R = 104.81
P.C.C. = 10+17.12 EB10
Y = 336,305.41
X = 562,080.81
P.R.C. = 10+82.79 EB10
Y = 336,369.99
X = 562,082.29

CURVE EB1003
P.I. = 11+33.19 EB10
Y = 336,418.28
X = 562,067.86
DELTA = 16° 17' 47.79" (RT)
D = 16° 16' 38.26"
T = 50.40
L = 100.12
R = 352.00
P.R.C. = 10+82.79 EB10
Y = 336,369.99
X = 562,082.29
P.C.C. = 11+82.91 EB10
Y = 336,468.68
X = 562,067.56

CURVE EB1004
P.I. = 11+84.94 EB10
Y = 336,470.72
X = 562,067.55
DELTA = 4° 29' 03.86" (RT)
D = 110° 10' 12.15"
T = 2.04
L = 4.07
R = 52.00
P.C.C. = 11+82.91 EB10
Y = 336,468.68
X = 562,067.56
P.T. = 11+86.98 EB10
Y = 336,472.75
X = 562,067.70

POT = 12+09.33 EB10
Y = 336,495.04
X = 562,069.31

SEE THE PAVING DETAIL FOR THE WESTBOUND IH 94 ENTRACE RAMP (D RAMP) FOR ADDITIONAL POINTS DEFINING THE LEFT EDGE OF PAVEMENT FOR THE D RAMP.



* CONCRETE CURB & GUTTER 32-INCH SPECIAL. SEE CONSTRUCTION DETAIL "MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION WITH CONCRETE CURB AND GUTTER" FOR ADDITIONAL INFORMATION.

LEGEND

- A — CONCRETE CURB TYPE A
- 30 — CONCRETE CURB AND GUTTER 30-INCH TYPE A
- 30(D) — CONCRETE CURB AND GUTTER 30-INCH TYPE A (DRIVEWAY ENTRANCE CURB)
- A — CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
- R — CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE R
- (10) — LAYOUT POINT NUMBER
- CCS-4 — COLORED CONCRETE SIDEWALK 4-INCH
- CPTA-10 — TRUCK APRON COLORED CONCRETE PAVEMENT 10-INCH
- REVERSE SLOPE GUTTER

NOTES:
- ALL CURB AND GUTTER POINTS ARE TO FLANGE LINE UNLESS OTHERWISE NOTED

POINT NO.	STATION	OFFSET	ELEV.	Y	X	REMARKS
1	55+42.12	30.73 ' LT	1037.80	337,207.04	562,115.79	CURB TRANSITION 30-INCH TO 36-INCH
2	11+81.92 WB6	0.00 ' RT	1041.64	337,103.20	562,092.01	CURB TRANSITION 30-INCH TO 36-INCH
3	12+67.38 WB9	0.00 ' RT	1040.52	337,135.69	562,186.74	CURB TRANSITION 30-INCH TO 36-INCH
4	11+12.26 WB9	0.00 ' RT	1042.50	337,019.38	562,267.19	CURB TRANSITION 30-INCH TO 36-INCH
5	53+04.86	4.11 ' RT	1045.85	336,979.53	562,112.20	R=49.5'
6	55+35.72	33.91 'LT	1038.21	337,200.36	562,113.22	---
7	11+87.99 WB6	4.00 'LT	1041.69	337,110.34	562,092.63	---
8	12+61.38 WB9	4.50 ' RT	1040.92	337,130.24	562,191.88	---
9	11+18.26 WB9	4.50 ' RT	1042.73	337,026.10	5262,263.87	---

DATA TABLE

POINT NO.	STATION	OFFSET	ELEV.	Y	X	REMARKS
10	54+88.35	220.41 'LT	---	337,177.00	562,370.87	R=185.0'
11	12+48.98 WB1	20.39 'LT	1048.07	336,938.13	562,110.44	HIGH POINT OF INNER CIRCLE MOUND
12	10+90.53 WB5	0.00 'RT	---	336,901.46	562,028.54	DRIVEWAY CURB CUT
13	11+33.03 WB5	0.00 'RT	---	336,943.48	562,022.32	DRIVEWAY CURB CUT
14	55+50.00	0.00 'RT	---	---	---	END COLORED CONCRETE SIDEWALK
15	495+19.42 D	2,377.00 'LT	---	339,396.25	561,716.74	R=2,365.0'
16	55+38.07	188.42 'LT	---	337,188.23	561,959.17	R=154.5'
17	55+38.88	6.26 'LT	---	337,207.54	562,140.33	---
18	10+95.01 WB2	0.00 'LT	---	336,868.15	562,127.29	---
19	499+35.01 C	15.00 'LT	---	336,935.86	562,432.24	---
20	499+71.43 C	15.00 'LT	---	336,915.77	562,465.32	---
21	499+80.59 C	18.10 'LT	---	336,912.38	562,475.03	---
22	499+70.18 C	0.00 'RT	---	336,904.30	562,455.54	---
23	499+80.16 C	1.01 'RT	---	336,897.57	562,462.94	---
24	491+81.30 D	24.0' LT	---	337,030.82	561,480.86	---

PROJECT NO:1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PLAN DETAIL - STH 65	SHEET 46 E

WB1 LINE

CURVE WB101
P.I. = 11+00.67 WB1
Y = 341,486.24
X = 557,473.08
DELTA = 178° 51' 25.96" (LT)
D = 88° 49' 50.40"
T = 6,467.43
L = 201.35
R = 64.50
P.C. = 10+00.00 WB1
Y = 337,026.24
X = 562,156.68
P.C.C. = 12+01.35 WB1
Y = 336,933.72
X = 562,066.80

CURVE WB102
P.I. = 12+66.49 WB1
Y = 336,887.86
X = 562,113.07
DELTA = 90° 34' 17.02" (LT)
D = 88° 49' 50.40"
T = 65.15
L = 101.96
R = 64.50
P.C.C. = 12+01.35 WB1
Y = 336,933.72
X = 562,066.80
P.C.C. = 13+03.31 WB1
Y = 336,934.59
X = 562,158.46

CURVE WB103
P.I. = 13+68.45 WB1
Y = 336,981.32
X = 562,203.86
DELTA = 90° 34' 17.02" (LT)
D = 88° 49' 50.40"
T = 65.15
L = 101.96
R = 64.50
P.C.C. = 13+03.31 WB1
Y = 336,934.59
X = 562,158.46
P.T. = 14+05.27 WB1
Y = 337,026.24
X = 562,156.68

WB2 LINE

POT = 10+00.00 WB2
Y = 336,786.27
X = 562,090.42

CURVE WB201
P.I. = 10+04.58 WB2
Y = 336,790.83
X = 562,090.75
DELTA = 4° 56' 33.38" (LT)
D = 440° 44' 12.36"
T = 0.56
L = 1.12
R = 13.00
P.C. = 10+04.01 WB2
Y = 336,790.27
X = 562,090.71
P.T. = 10+05.14 WB2
Y = 336,791.39
X = 562,090.74

CURVE WB202
P.I. = 10+37.03 WB2
Y = 336,823.28
X = 562,090.30
DELTA = 31° 22' 05.07" (RT)
D = 121° 54' 21.29"
T = 13.20
L = 25.73
R = 47.00
P.C. = 10+23.83 WB2
Y = 336,810.09
X = 562,090.48
P.C.C. = 10+49.56 WB2
Y = 336,834.64
X = 562,097.01

CURVE WB203
P.I. = 10+68.85 WB2
Y = 336,851.25
X = 562,106.82
DELTA = 19° 53' 05.41" (RT)
D = 52° 05' 13.46"
T = 19.28
L = 38.18
R = 110.00
P.C.C. = 10+49.56 WB2
Y = 336,834.64
X = 562,097.01
P.T. = 10+87.74 WB2
Y = 336,863.52
X = 562,121.68

CURVE WB204
P.I. = 12+01.33 WB2
Y = 336,935.84
X = 562,209.28
DELTA = 52° 26' 42.94" (LT)
D = 59° 59' 44.09"
T = 47.04
L = 87.42
R = 95.50
P.C. = 11+54.29 WB2
Y = 336,905.89
X = 562,173.00
P.T. = 12+41.70 WB2
Y = 336,982.85
X = 562,207.64

WB3 LINE

CURVE WB301
P.I. = 10+13.39 WB3
Y = 336,818.14
X = 562,060.23
DELTA = 13° 17' 10.71" (RT)
D = 49° 51' 04.54"
T = 13.39
L = 26.65
R = 114.93
P.C. = 10+00.00 WB3
Y = 336,804.79
X = 562,059.26
P.C.C. = 10+26.65 WB3
Y = 336,830.91
X = 562,064.24

CURVE WB302
P.I. = 10+59.83 WB3
Y = 336,862.57
X = 562,074.18
DELTA = 32° 12' 24.93" (RT)
D = 49° 51' 04.54"
T = 33.18
L = 64.61
R = 114.93
P.C.C. = 10+26.65 WB3
Y = 336,830.91
X = 562,064.24
P.T. = 10+91.26 WB3
Y = 336,884.06
X = 562,099.46

POT = 11+09.77 WB3
Y = 336,896.05
X = 562,113.56

WB4 LINE

POT = 10+00.00 WB4
Y = 336,804.79
X = 562,059.26

CURVE WB401
P.I. = 10+13.81 WB4
Y = 336,818.56
X = 562,060.26
DELTA = 3° 27' 23.75" (LT)
D = 12° 45' 38.71"
T = 13.55
L = 27.09
R = 449.00
P.C. = 10+00.26 WB4
Y = 336,805.05
X = 562,059.28
P.C.C. = 10+27.35 WB4
Y = 336,832.11
X = 562,060.42

CURVE WB402
P.I. = 10+55.27 WB4
Y = 336,860.03
X = 562,060.76
DELTA = 7° 06' 59.11" (LT)
D = 12° 45' 38.71"
T = 27.92
L = 55.77
R = 449.00
P.C.C. = 10+27.35 WB4
Y = 336,832.11
X = 562,060.42
P.T. = 10+83.12 WB4
Y = 336,887.77
X = 562,057.63

POT = 11+15.17 WB4
Y = 336,919.62
X = 562,054.04

WB5 LINE

POT = 10+00.00 WB5
Y = 336,811.11
X = 562,027.22

CURVE WB501
P.I. = 10+46.15 WB5
Y = 336,857.15
X = 562,030.55
DELTA = 4° 00' 25.10" (LT)
D = 110° 11' 03.09"
T = 1.82
L = 3.64
R = 52.00
P.C. = 10+44.34 WB5
Y = 336,855.33
X = 562,030.42
P.C.C. = 10+47.97 WB5
Y = 336,858.97
X = 562,030.56

CURVE WB502
P.I. = 10+98.00 WB5
Y = 336,908.99
X = 562,030.68
DELTA = 13° 21' 48.40" (LT)
D = 13° 25' 05.58"
T = 50.02
L = 99.59
R = 427.00
P.C.C. = 10+47.97 WB5
Y = 336,858.97
X = 562,030.56
P.R.C. = 11+47.56 WB5
Y = 336,957.69
X = 562,019.23

CURVE WB503
P.I. = 11+87.70 WB5
Y = 336,996.76
X = 562,010.05
DELTA = 45° 35' 34.15" (RT)
D = 59° 59' 44.09"
T = 40.14
L = 75.99
R = 95.50
P.R.C. = 11+47.56 WB5
Y = 336,957.69
X = 562,019.23
P.T. = 12+23.56 WB5
Y = 337,030.66
X = 562,031.54

WB6 LINE

CURVE WB601
P.I. = 10+47.74 WB6
Y = 337,045.31
X = 561,978.64
DELTA = 2° 18' 47.04" (LT)
D = 2° 25' 21.56"
T = 47.74
L = 95.48
R = 2,365.00
P.C. = 10+00.00 WB6
Y = 337,040.98
X = 561,931.09
P.C.C. = 10+95.48 WB6
Y = 337,051.55
X = 562,025.98

CURVE WB602
P.I. = 11+21.74 WB6
Y = 337,054.99
X = 562,052.01
DELTA = 42° 48' 19.42" (LT)
D = 85° 30' 57.92"
T = 26.26
L = 50.06
R = 67.00
P.C.C. = 10+95.48 WB6
Y = 337,051.55
X = 562,025.98
P.T. = 11+45.53 WB6
Y = 337,075.20
X = 562,068.78

CURVE WB603
P.I. = 12+24.09 WB6
Y = 337,135.53
X = 562,119.07
DELTA = 39° 18' 13.32" (LT)
D = 49° 49' 20.70"
T = 41.07
L = 78.89
R = 115.00
P.C. = 11+83.03 WB6
Y = 337,104.04
X = 562,092.71
P.T. = 12+61.91 WB6
Y = 337,176.59
X = 562,119.52

WB7 LINE

POT = 10+00.00 WB7
Y = 337,061.53
X = 562,096.42

CURVE WB701
P.I. = 10+83.84 WB7
Y = 337,126.05
X = 562,149.95
DELTA = 44° 33' 25.50" (LT)
D = 44° 09' 00.65"
T = 53.17
L = 100.92
R = 129.77
P.C. = 10+30.67 WB7
Y = 337,085.14
X = 562,116.01
P.T. = 11+31.59 WB7
Y = 337,179.03
X = 562,145.43

WB8 LINE

POT = 10+00.00 WB8
Y = 337,038.37
X = 562,171.45

CURVE WB801
P.I. = 11+39.09 WB8
Y = 337,176.84
X = 562,158.43
DELTA = 0° 09' 36.54" (RT)
D = 2° 21' 37.64"
T = 3.39
L = 6.78
R = 2,427.32
P.C. = 11+35.69 WB8
Y = 337,173.47
X = 562,158.75
P.T. = 11+42.48 WB8
Y = 337,180.22
X = 562,158.12

WB9 LINE

POT = 10+00.00 WB9
Y = 336,968.69
X = 562,367.36

CURVE WB901
P.I. = 11+91.06 WB9
Y = 337,054.95
X = 562,196.88
DELTA = 55° 38' 41.31" (RT)
D = 95° 29' 34.68"
T = 31.66
L = 58.27
R = 60.00
P.C. = 11+59.39 WB9
Y = 337,040.65
X = 562,225.13
P.C.C. = 12+17.66 WB9
Y = 337,086.34
X = 562,192.74

CURVE WB902
P.I. = 12+66.03 WB9
Y = 337,134.30
X = 562,186.41
DELTA = 2° 18' 22.14" (RT)
D = 2° 23' 03.09"
T = 48.37
L = 96.73
R = 2,403.15
P.C.C. = 12+17.66 WB9
Y = 337,086.34
X = 562,192.74
P.T. = 13+14.39 WB9
Y = 337,182.47
X = 562,182.02

WB10 LINE

POT = 10+00.00 WB10
Y = 336,963.18
X = 562,342.82

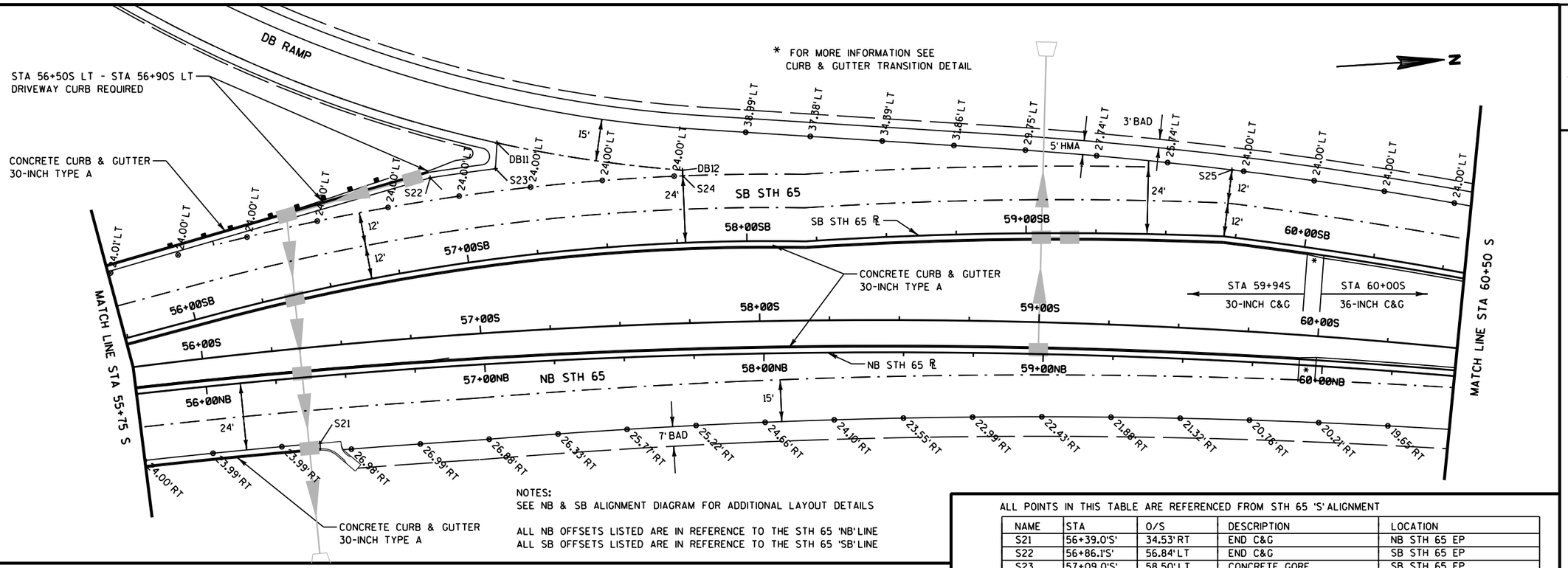
POT = 11+60.05 WB10
Y = 337,035.44
X = 562,200.01

WB11 LINE

POT = 10+00.00 WB11
Y = 336,963.18
X = 562,342.82

CURVE WB1101
P.I. = 11+09.16 WB11
Y = 336,980.06
X = 562,234.97
DELTA = 33° 42' 50.18" (RT)
D = 63° 39' 43.12"
T = 27.27
L = 52.96
R = 90.00
P.C. = 10+81.89 WB11
Y = 336,975.84
X = 562,261.91
P.T. = 11+34.85 WB11
Y = 336,998.52
X = 562,214.90

POT = 11+49.23 WB11
Y = 337,008.26
X = 562,204.32



NOTES:
SEE NB & SB ALIGNMENT DIAGRAM FOR ADDITIONAL LAYOUT DETAILS

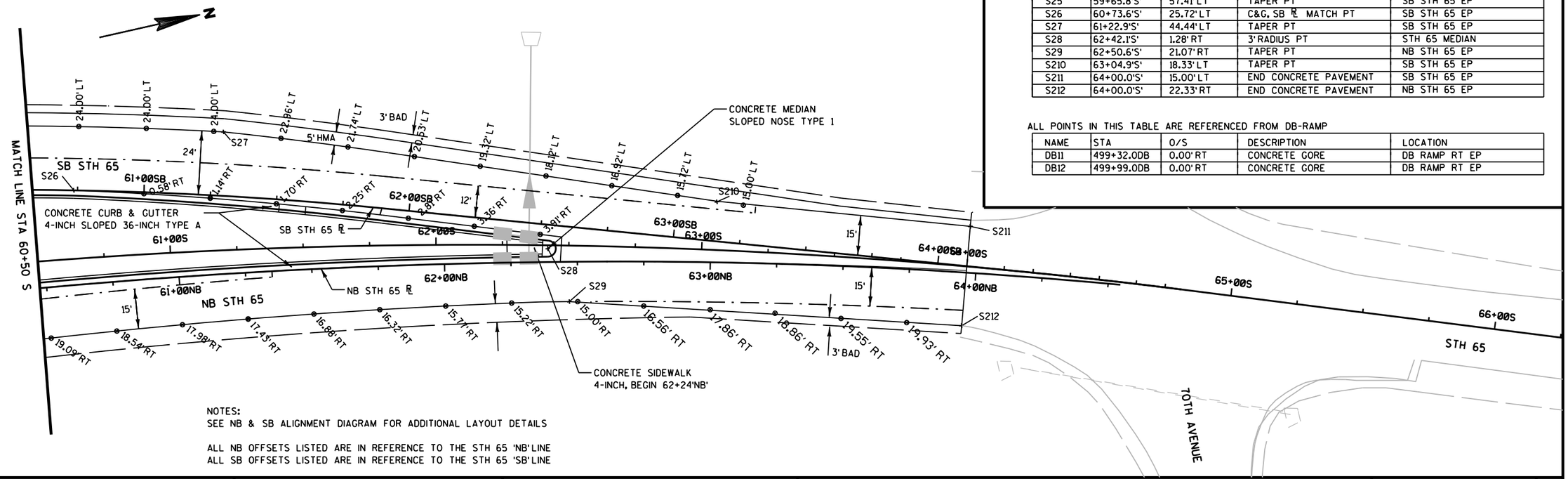
ALL NB OFFSETS LISTED ARE IN REFERENCE TO THE STH 65 'NB' LINE
ALL SB OFFSETS LISTED ARE IN REFERENCE TO THE STH 65 'SB' LINE

ALL POINTS IN THIS TABLE ARE REFERENCED FROM STH 65 'S' ALIGNMENT

NAME	STA	O/S	DESCRIPTION	LOCATION
S21	56+39.0'S'	34.53'RT	END C&G	NB STH 65 EP
S22	56+86.1'S'	56.84'LT	END C&G	SB STH 65 EP
S23	57+09.0'S'	58.50'LT	CONCRETE GORE	SB STH 65 EP
S24	57+74.2'S'	52.77'LT	CONCRETE GORE	SB STH 65 EP
S25	59+65.8'S'	57.41'LT	TAPER PT	SB STH 65 EP
S26	60+73.6'S'	25.72'LT	C&G, SB ℄ MATCH PT	SB STH 65 EP
S27	61+22.9'S'	44.44'LT	TAPER PT	SB STH 65 EP
S28	62+42.1'S'	1.28'RT	3'RADIUS PT	STH 65 MEDIAN
S29	62+50.6'S'	21.07'RT	TAPER PT	NB STH 65 EP
S210	63+04.9'S'	18.33'LT	TAPER PT	SB STH 65 EP
S211	64+00.0'S'	15.00'LT	END CONCRETE PAVEMENT	SB STH 65 EP
S212	64+00.0'S'	22.33'RT	END CONCRETE PAVEMENT	NB STH 65 EP

ALL POINTS IN THIS TABLE ARE REFERENCED FROM DB-RAMP

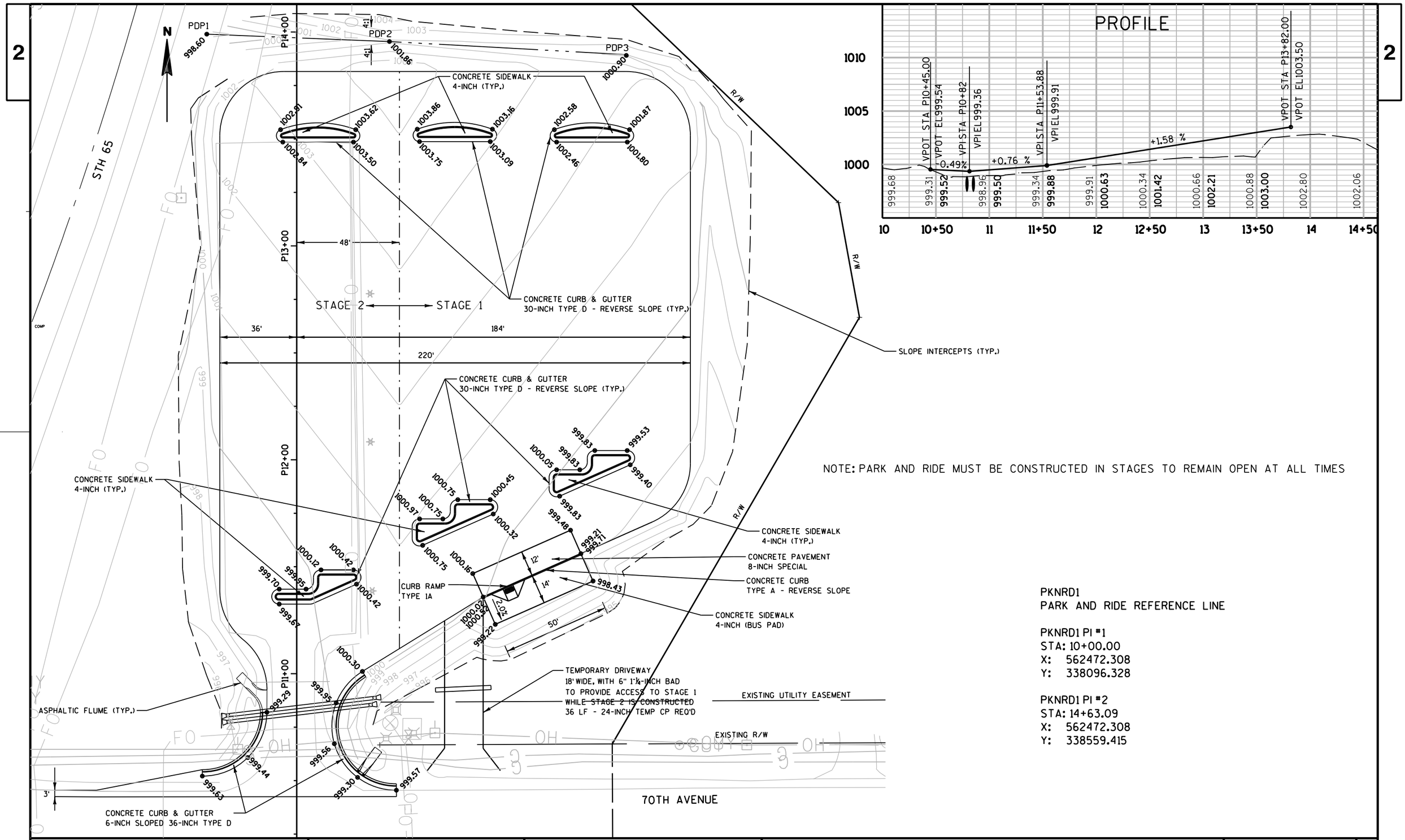
NAME	STA	O/S	DESCRIPTION	LOCATION
DB11	499+32.0DB	0.00'RT	CONCRETE GORE	DB RAMP RT EP
DB12	499+99.0DB	0.00'RT	CONCRETE GORE	DB RAMP RT EP



NOTES:
SEE NB & SB ALIGNMENT DIAGRAM FOR ADDITIONAL LAYOUT DETAILS

ALL NB OFFSETS LISTED ARE IN REFERENCE TO THE STH 65 'NB' LINE
ALL SB OFFSETS LISTED ARE IN REFERENCE TO THE STH 65 'SB' LINE

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	STH 65 PAVING LAYOUT DETAIL	SHEET 48	E



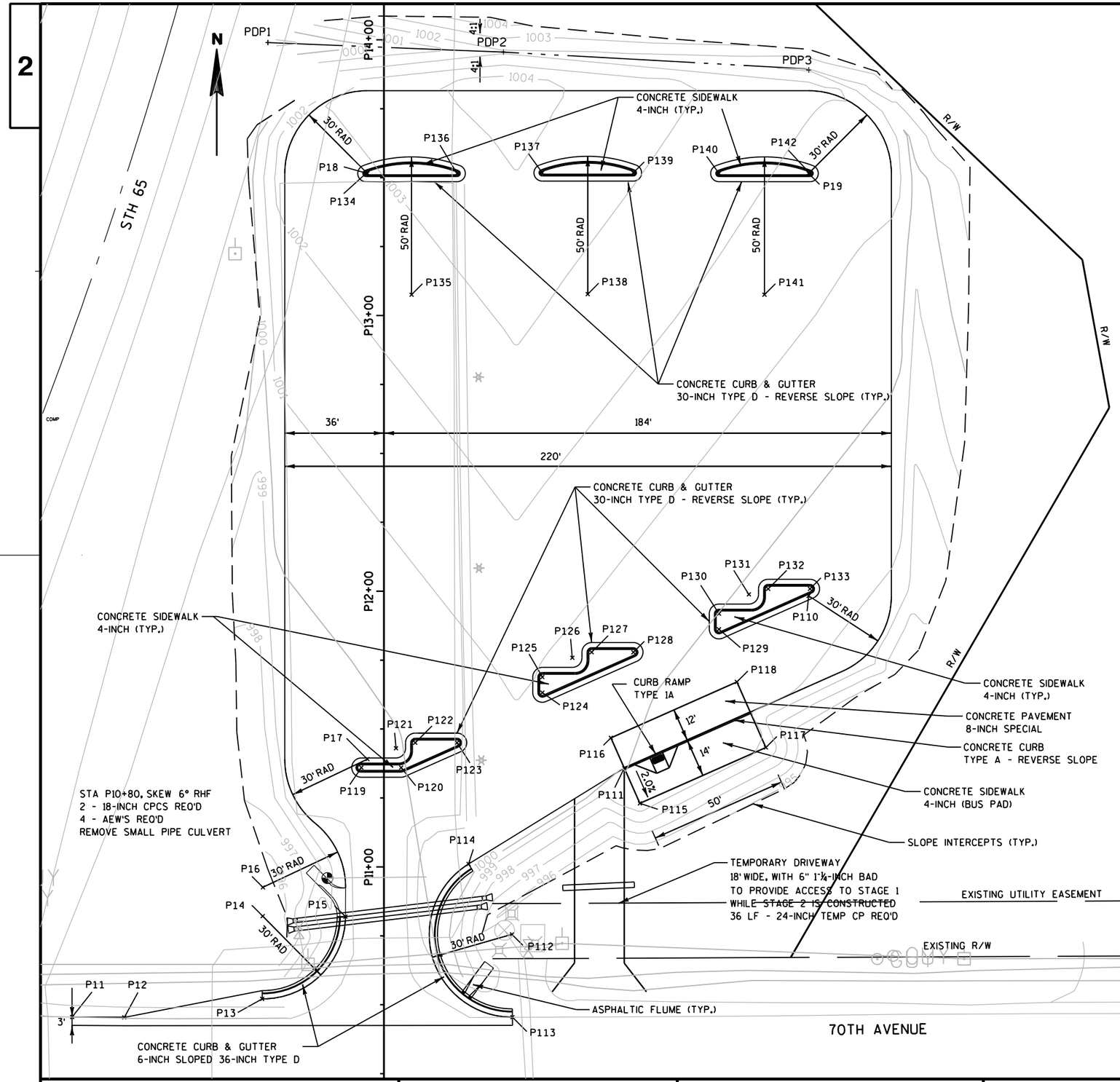
NOTE: PARK AND RIDE MUST BE CONSTRUCTED IN STAGES TO REMAIN OPEN AT ALL TIMES

PKNRD1
PARK AND RIDE REFERENCE LINE

PKNRD1 PI *1
STA: 10+00.00
X: 562472.308
Y: 338096.328

PKNRD1 PI *2
STA: 14+63.09
X: 562472.308
Y: 338559.415

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PARK & RIDE PAVING DETAIL	SHEET 49	E



ALL POINTS IN THIS TABLE ARE REFERENCED FROM PARK AND RIDE REFERENCE LINE

NAME	STATION	O/S	DESCRIPTION	LOCATION
P11	P10+45.54	113.13' LT	MATCH PT	EXISTING 70TH AVENUE
P12	P10+45.43	94.20' LT	MATCH PT	EXISTING 70TH AVENUE
P13	P10+52.14	44.16' LT	END C&G, 30' RADIUS PT	LEFT EDGE OF PARK & RIDE
P14	P10+82.14	44.00' LT	30' RADIUS PT	LEFT EDGE OF PARK & RIDE
P15	P10+81.96	14.00' LT	END C&G, 30' RADIUS PT	LEFT EDGE OF PARK & RIDE
P16	P10+92.59	43.92' LT	30' RADIUS PT	LEFT EDGE OF PARK & RIDE
P17	P11+39.09	6.00' LT	30' RADIUS PT	LEFT EDGE OF PARK & RIDE
P18	P13+51.54	6.00' LT	30' RADIUS PT	LEFT EDGE OF PARK & RIDE
P19	P13+51.54	154.00' RT	30' RADIUS PT	RIGHT EDGE OF PARK & RIDE
P110	P11+98.33	154.00' RT	30' RADIUS PT	RIGHT EDGE OF PARK & RIDE
P111	P11+35.84	87.16' RT	TAPER PT	RIGHT EDGE OF PARK & RIDE
P112	P10+75.51	46.42' RT	30' RADIUS PT	RIGHT EDGE OF PARK & RIDE
P113	P10+45.51	46.58' RT	END C&G, 30' RADIUS PT	EXISTING 70TH AVENUE
P114	P11+01.06	30.69' RT	END C&G, 30' RADIUS PT	RIGHT EDGE OF PARK & RIDE
P115	P11+23.04	92.83' RT	BUS PAD CORNER	BUS PAD CORNER
P116	P11+46.81	82.29' RT	BUS PAD CORNER	BUS PAD CORNER
P117	P11+43.32	138.54' RT	BUS PAD CORNER	BUS PAD CORNER
P118	P11+67.09	127.99' RT	BUS PAD CORNER	BUS PAD CORNER
P119	P11+36.04	8.20' LT	3.5' RADIUS PT	CURB ISLAND
P120	P11+36.04	6.22' RT	3.5' RADIUS PT	CURB ISLAND
P121	P11+43.04	4.35' RT	3.5' RADIUS PT	CURB ISLAND
P122	P11+45.04	11.35' RT	3.5' RADIUS PT	CURB ISLAND
P123	P11+45.04	26.50' RT	3.5' RADIUS PT	CURB ISLAND
P124	P11+63.21	57.46' RT	3.5' RADIUS PT	CURB ISLAND
P125	P11+68.85	57.46' RT	3.5' RADIUS PT	CURB ISLAND
P126	P11+75.85	68.31' RT	3.5' RADIUS PT	CURB ISLAND
P127	P11+77.85	75.31' RT	3.5' RADIUS PT	CURB ISLAND
P128	P11+77.85	90.46' RT	3.5' RADIUS PT	CURB ISLAND
P129	P11+86.21	121.50' RT	3.5' RADIUS PT	CURB ISLAND
P130	P11+91.85	121.50' RT	3.5' RADIUS PT	CURB ISLAND
P131	P11+98.85	132.35' RT	3.5' RADIUS PT	CURB ISLAND
P132	P12+00.85	139.35' RT	3.5' RADIUS PT	CURB ISLAND
P133	P12+00.85	154.50' RT	3.5' RADIUS PT	CURB ISLAND
P134	P13+51.54	6.52' LT	3' RADIUS PT	CURB ISLAND
P135	P13+07.54	10.00' RT	50' RADIUS PT	CURB ISLAND
P136	P13+51.54	26.52' RT	3' RADIUS PT	CURB ISLAND
P137	P13+51.54	57.39' RT	3' RADIUS PT	CURB ISLAND
P138	P13+07.54	73.91' RT	50' RADIUS PT	CURB ISLAND
P139	P13+51.54	90.44' RT	3' RADIUS PT	CURB ISLAND
P140	P13+51.54	121.49' RT	3' RADIUS PT	CURB ISLAND
P141	P13+07.54	138.02' RT	50' RADIUS PT	CURB ISLAND
P142	P13+51.54	154.54' RT	3' RADIUS PT	CURB ISLAND
PDP1	P13+99.00	42.07' LT	DITCH POINT	NORTH DITCH
PDP2	P13+95.56	43.34' RT	DICH POINT	NORTH DITCH
PDP3	P13+89.05	154.07' RT	DITCH POINT	NORTH DITCH

PKNRD1
PARK AND RIDE REFERENCE LINE

PKNRD1 PI #1
STA: 10+00.00'P'
X: 562472.308
Y: 338096.328

PKNRD1 PI #2
STA: 14+63.09'P'
X: 562472.308
Y: 338559.415

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
73	10+96'P'	BLUE KEEL/30-INCH CMCP AT PARK AND RIDE, NORTHEAST CORNER OF STH 65/70TH	998.05

SEE ALSO PARK AND RIDE PAVING DETAIL, LIGHTING PLAN AND CROSS SECTIONS

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PARK & RIDE PLAN DETAIL	SHEET 50	E

FILE NAME : G:\STRAND\S100917\DGN\DETAILS\021002_CD.DGN PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

FTMS STANDARD ABBREVIATIONS

CCTV	CLOSED CIRCUIT TELEVISION SITE
CB	CONTROLLER CABINET
PB	PULL BOX
V	COMMUNICATIONS VAULT
F.O.C.	FIBER OPTIC CABLE
S-F	STATE-FURNISHED
MB	METER BREAKER
EX	EXISTING
MD	MICROWAVE DETECTOR

LEGEND

	EXISTING	PROPOSED
CCTV CAMERA AND POLE		
METER BREAKER PEDESTAL		
24"X36" STEEL PULL BOX		
ITS CONDUIT		
COMMUNICATIONS VAULT		
POLE-MOUNTED CABINET		
MICROWAVE DETECTOR AND POLE		

FTMS GENERAL NOTES

THESE PLANS AND THE ASSOCIATED SPECIAL PROVISIONS REFLECT CONDITIONS KNOWN DURING THE DEVELOPMENT OF THE PLANS AND TECHNICAL SPECIAL PROVISIONS. ALL SCALES, DIMENSIONS AND LOCATIONS SHOWN IN THESE PLANS ARE APPROXIMATE. ACTUAL PHYSICAL FIELD CONDITIONS SHALL PROVIDE THE BASIS FOR THE APPLICATION OF WORK SHOWN IN THE PLANS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR THE APPLICATION OF ALL WORK SHOWN IN THE PLANS TO THE ACTUAL PHYSICAL FIELD CONDITIONS TO PROVIDE A COMPLETE AND ACCEPTED PROJECT. IN THE EVENT THAT ACTUAL PHYSICAL FIELD CONDITIONS AFFECT OR PREVENT THE APPLICATION OR PROGRESSION OF ANY WORK SHOWN IN THE PLANS OR TECHNICAL SPECIAL PROVISIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY, AND PRIOR TO ANY FURTHER WORK ACTIVITY. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY LOCATION CHANGES OTHER THAN MINOR ADJUSTMENTS.

BE AWARE THAT ALL EXISTING UNDERGROUND AND ABOVE GROUND STRUCTURES AND FACILITIES WITHIN THE SCOPE OF THIS PROJECT MAY NOT BE LOCATED IN THE PLANS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR LOCATING AND AVOIDING ALL UNDERGROUND AND ABOVE GROUND STRUCTURES AND FACILITIES.

BE AWARE THAT NO TEST BORINGS WERE MADE WHERE CONDUITS, PULLBOXES, POLES, CABINET FOUNDATIONS, OR OTHER EQUIPMENT IS TO BE INSTALLED. THE CONTRACTOR IS FULLY RESPONSIBLE FOR EXAMINING THE JOB SITE CONDITIONS BEFORE SUBMITTING BID PROPOSALS.

NO TREES (AND/OR SHRUBS) ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

AREAS WITHIN THE RIGHT-OF-WAY DISTURBED SPECIFICALLY FOR FTMS CONSTRUCTION ARE TO BE RESTORED TO THE ORIGINAL CONDITION WITH TOPSOIL, FERTILIZER AND SEED, AND MULCH. RESTORATION FOR AREAS DISTURBED FOR OTHER CONSTRUCTION OPERATIONS BUT ALSO CONTAINING FTMS CONSTRUCTION WILL BE DONE ACCORDING TO REQUIREMENTS AND PAYMENT PROVISIONS FOR THE OTHER CONSTRUCTION OPERATIONS. NO PAYMENT WILL BE MADE FOR RESTORING AREAS DISTURBED FOR FTMS CONSTRUCTION OPERATIONS.

THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

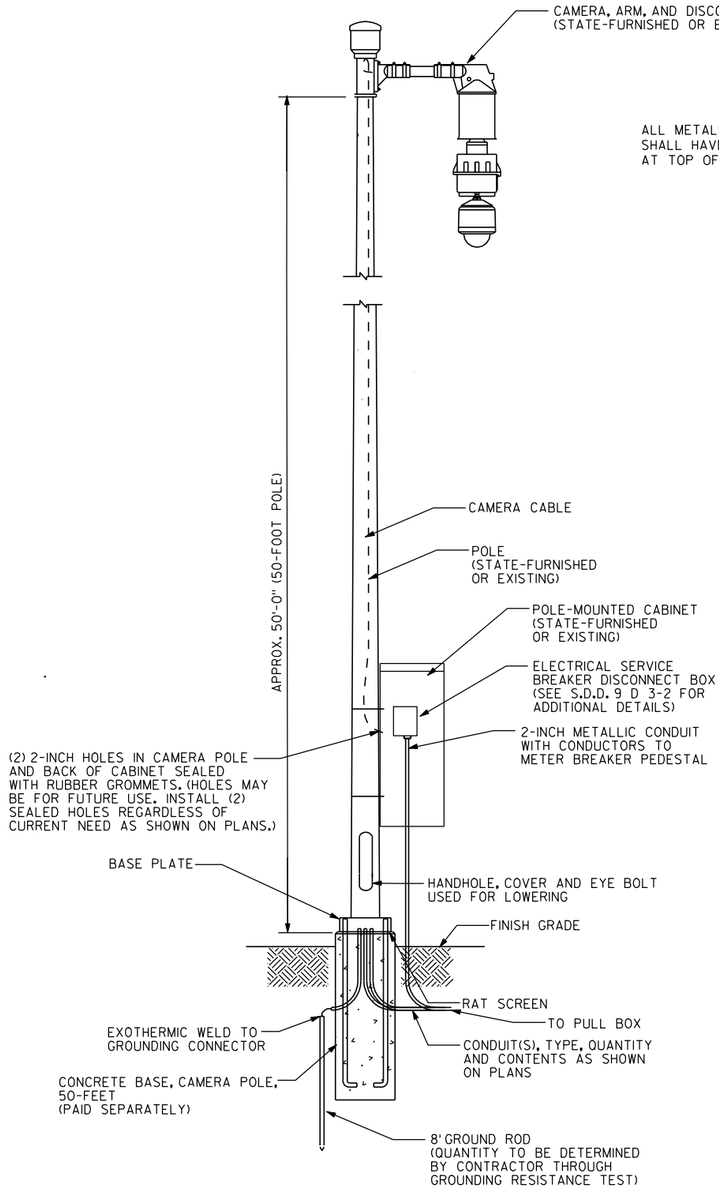
BE ADVISED THAT DUE TO RAMP, LANE, AND SHOULDER CLOSURE RESTRICTIONS, AND WORK UNDER OTHER CONTRACTS, SOME WORK MAY BE REQUIRED TO BE PERFORMED AT NIGHT.

THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING RAMP, LANE, SHOULDER, AND ROADWAY CLOSURES WITH OTHER CONTRACTS IN THE AREA.

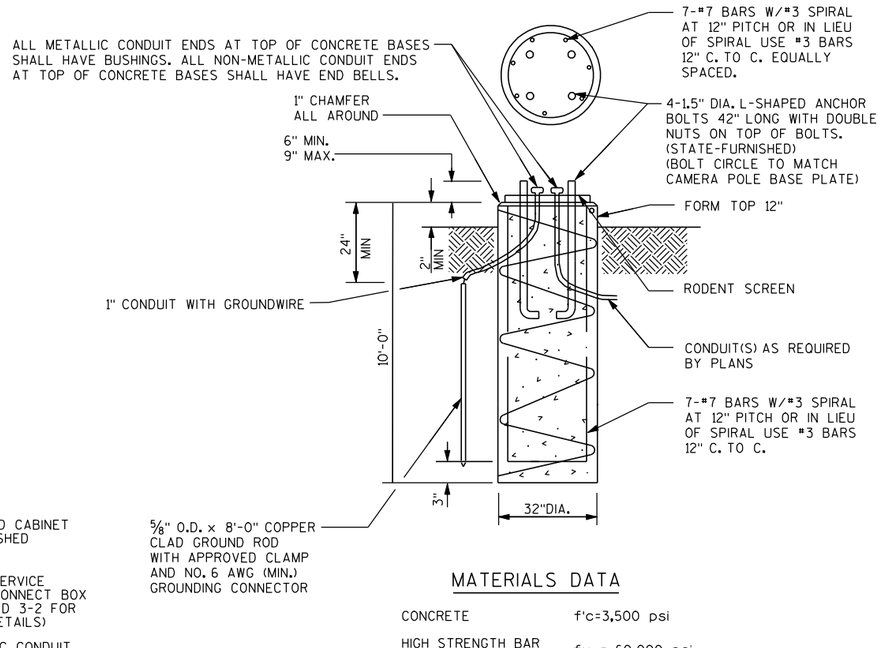
CONTACT THE WISDOT STATEWIDE TRAFFIC OPERATIONS CENTER AT (414) 227-2166 FIVE (5) WORKING DAYS PRIOR TO ENTERING ANY EXISTING WISDOT FTMS OR ITS CABINET.

HAND DIG TRENCHES CROSSING EXISTING CONDUIT CONTAINING FIBER OPTIC CABLE.

VISUALLY VERIFY DEPTHS OF EXISTING CONDUITS CONTAINING FIBER OPTIC CABLE PRIOR TO CROSSING BY DIRECTIONAL BORE OR SPECIAL METHOD.



CAMERA POLE WITH CAMERA LOWERING HARDWARE

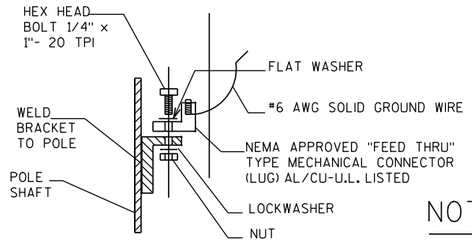


MATERIALS DATA

CONCRETE	f'c=3,500 psi
HIGH STRENGTH BAR STEEL REINFORCEMENT	fy = 60,000 psi

CONCRETE BASE, 50' CAMERA POLE

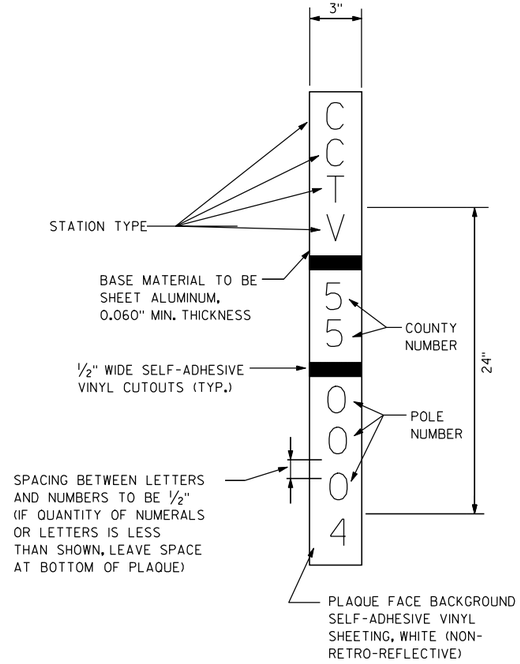
NOT TO SCALE



FIELD INSTALLED GROUNDING LUG

NOTES

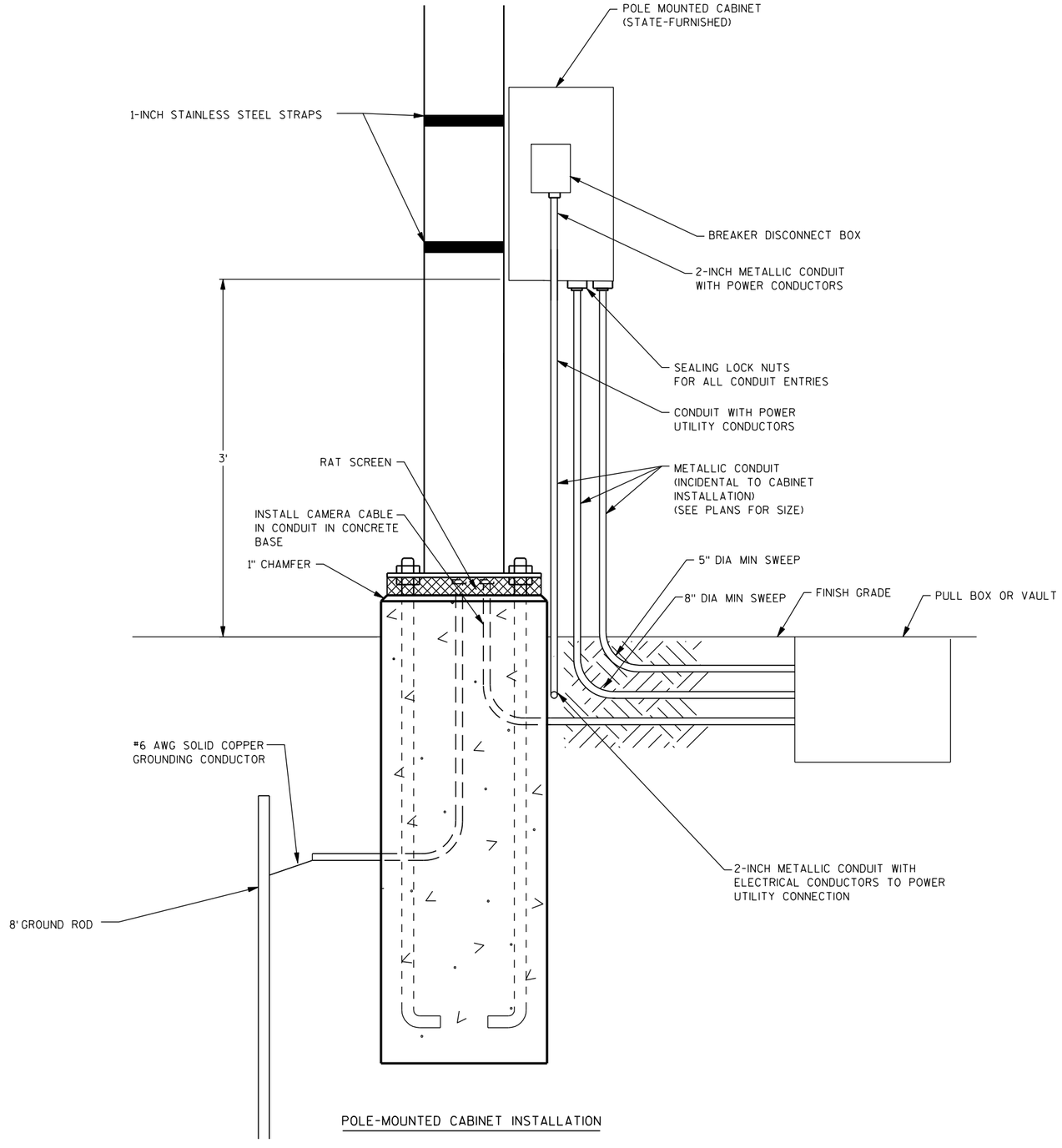
1) ALL HARDWARE AND FASTENERS SHALL BE STAINLESS STEEL
2) POLE DRAWINGS SHOWN FOR BIDDING INFORMATION PURPOSES ONLY. POLES WILL BE STATE FURNISHED. BASE TO BE CONTRACTOR DESIGNED.
3) CONTRACTOR SHALL CONFIRM BOLT PATTERN OF CAMERA POLE PRIOR TO CONSTRUCTION OF CONCRETE BASE.
4) CONTRACTOR SHALL INSTALL GROUNDING LUG AS SHOWN



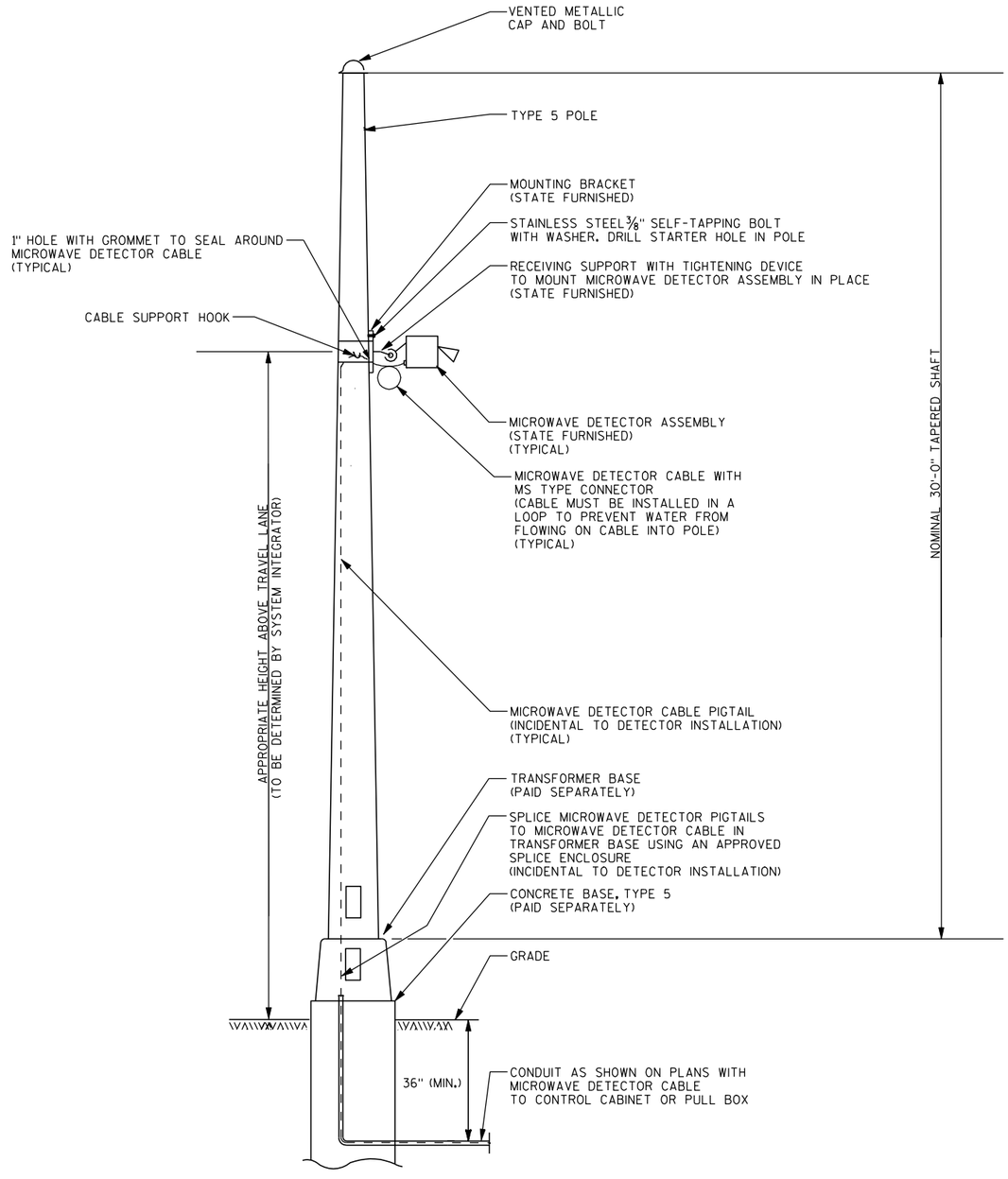
POLE IDENTIFICATION PLAQUE DETAIL

CAMERA POLES & FOUNDATIONS

2



POLE-MOUNTED CABINET INSTALLATION

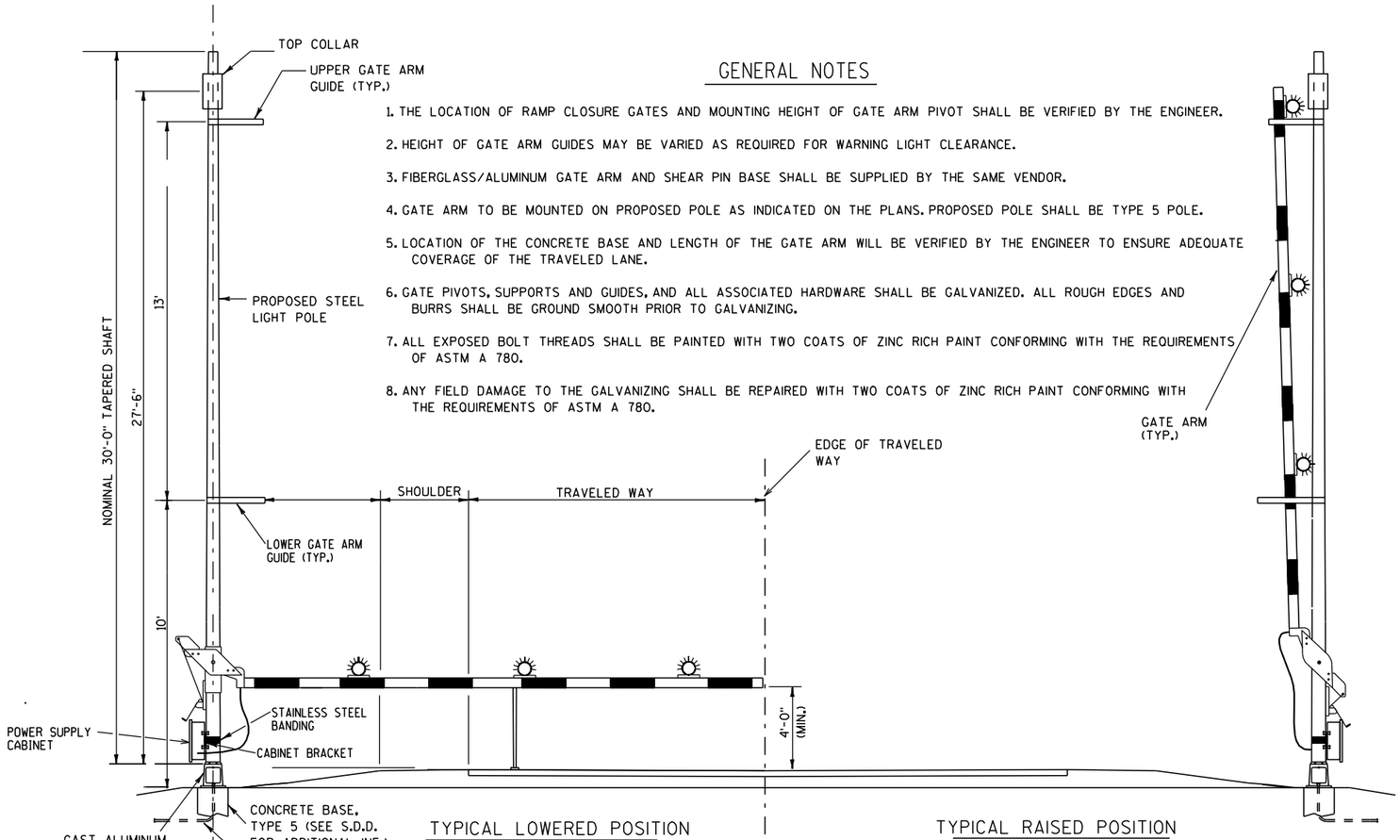


MICROWAVE DETECTOR INSTALLATION

ON TYPE 5 POLE

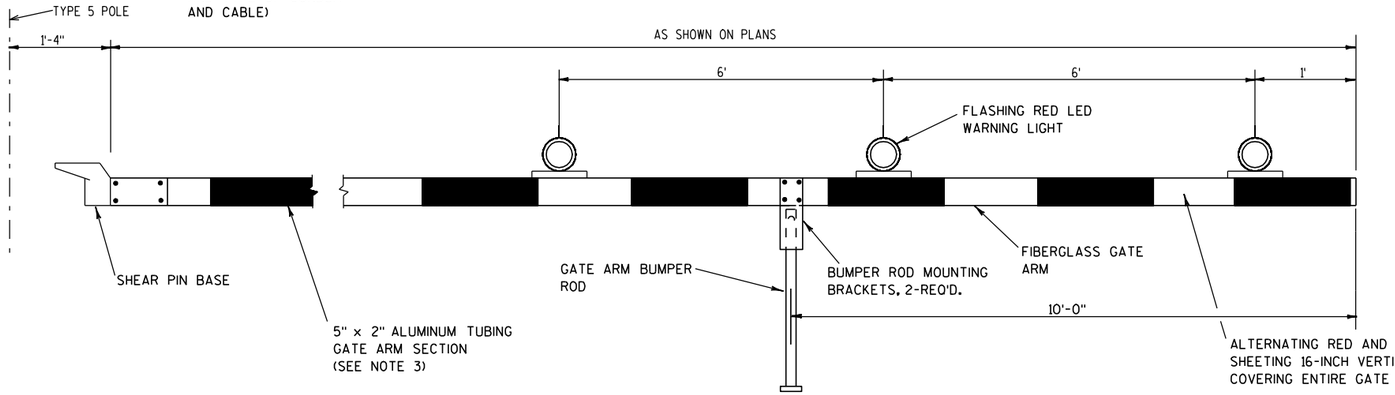
GENERAL NOTES

1. THE LOCATION OF RAMP CLOSURE GATES AND MOUNTING HEIGHT OF GATE ARM PIVOT SHALL BE VERIFIED BY THE ENGINEER.
2. HEIGHT OF GATE ARM GUIDES MAY BE VARIED AS REQUIRED FOR WARNING LIGHT CLEARANCE.
3. FIBERGLASS/ALUMINUM GATE ARM AND SHEAR PIN BASE SHALL BE SUPPLIED BY THE SAME VENDOR.
4. GATE ARM TO BE MOUNTED ON PROPOSED POLE AS INDICATED ON THE PLANS. PROPOSED POLE SHALL BE TYPE 5 POLE.
5. LOCATION OF THE CONCRETE BASE AND LENGTH OF THE GATE ARM WILL BE VERIFIED BY THE ENGINEER TO ENSURE ADEQUATE COVERAGE OF THE TRAVELED LANE.
6. GATE PIVOTS, SUPPORTS AND GUIDES, AND ALL ASSOCIATED HARDWARE SHALL BE GALVANIZED. ALL ROUGH EDGES AND BURRS SHALL BE GROUND SMOOTH PRIOR TO GALVANIZING.
7. ALL EXPOSED BOLT THREADS SHALL BE PAINTED WITH TWO COATS OF ZINC RICH PAINT CONFORMING WITH THE REQUIREMENTS OF ASTM A 780.
8. ANY FIELD DAMAGE TO THE GALVANIZING SHALL BE REPAIRED WITH TWO COATS OF ZINC RICH PAINT CONFORMING WITH THE REQUIREMENTS OF ASTM A 780.

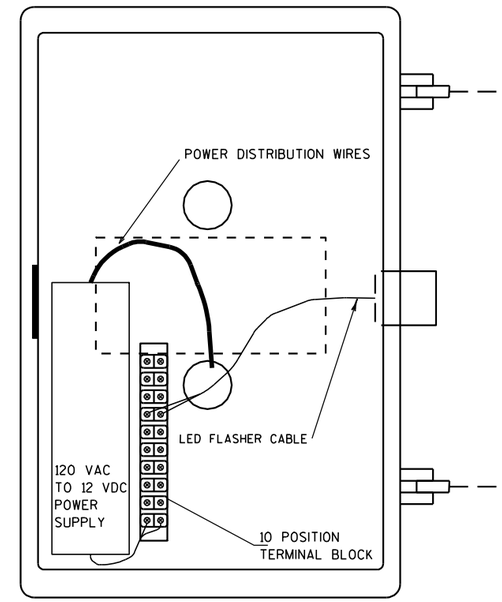


TYPICAL LOWERED POSITION
NOT TO SCALE

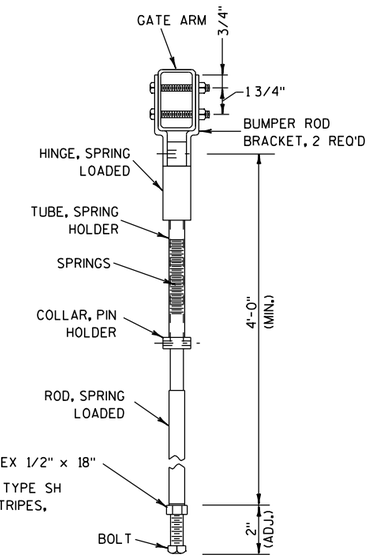
TYPICAL RAISED POSITION
NOT TO SCALE



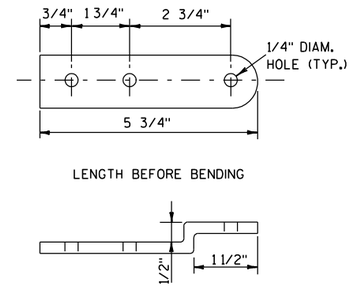
GATE DETAIL
(HARDWIRE POWER OPTION)



POWER SUPPLY CABINET

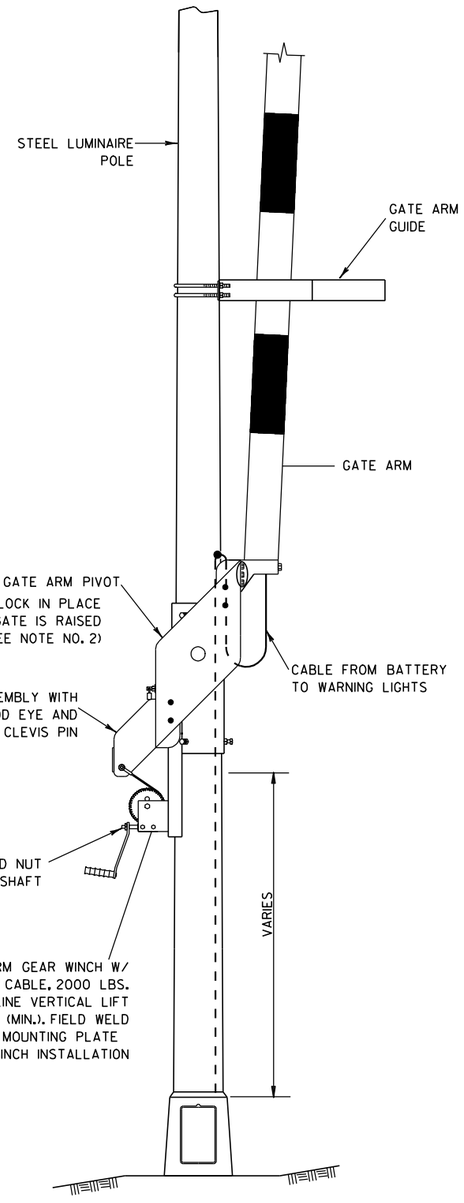


GATE ARM BUMPER ROD DETAIL



BUMPER ROD MOUNTING BRACKET DETAIL

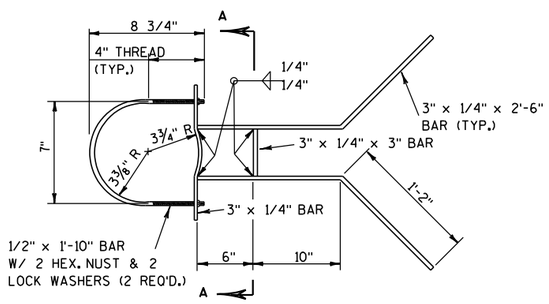
PROJECT NO: 1020-07-74	HWY: IH 94 & STH 65	COUNTY: ST. CROIX	RAMP GATE DETAILS	SHEET 55	E



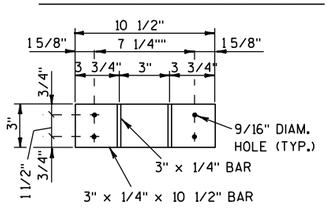
GATE PIVOT ASSEMBLY

GENERAL NOTES

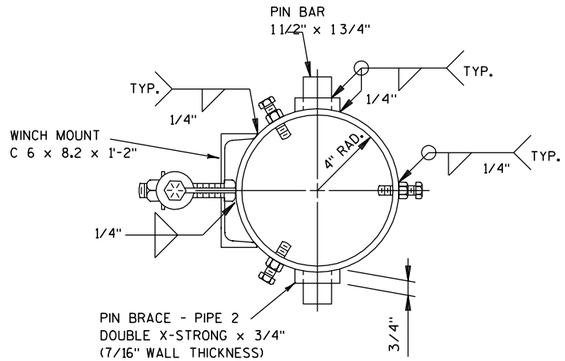
1. WHEN THE GATE IS FULLY RAISED, THE NUT AND WASHER SHALL BE PLACED SNUGLY AGAINST THE OUTSIDE OF THE REAR CHANNEL AND PADLOCKED IN PLACE.
2. WHEN THE GATE IS FULLY LOWERED, THE NUT AND WASHER SHALL BE PLACED SNUGLY AGAINST THE INSIDE OF THE REAR CHANNEL AND PADLOCKED INTO PLACE.
3. ANTI-SEIZE LUBRICATING MATERIAL SHALL BE USED ON ALL BOLT THREADS BEFORE INSTALLATION.
4. ALL BOLTS SHALL CONFORM TO ASTM A 307, GRADE A, UNLESS DESIGNATED AS HS (HIGH STRENGTH), WHICH SHALL CONFORM TO ASTM A 325.



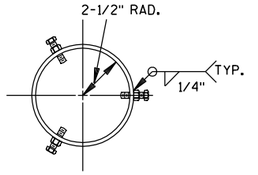
GATE ARM GUIDE DETAIL



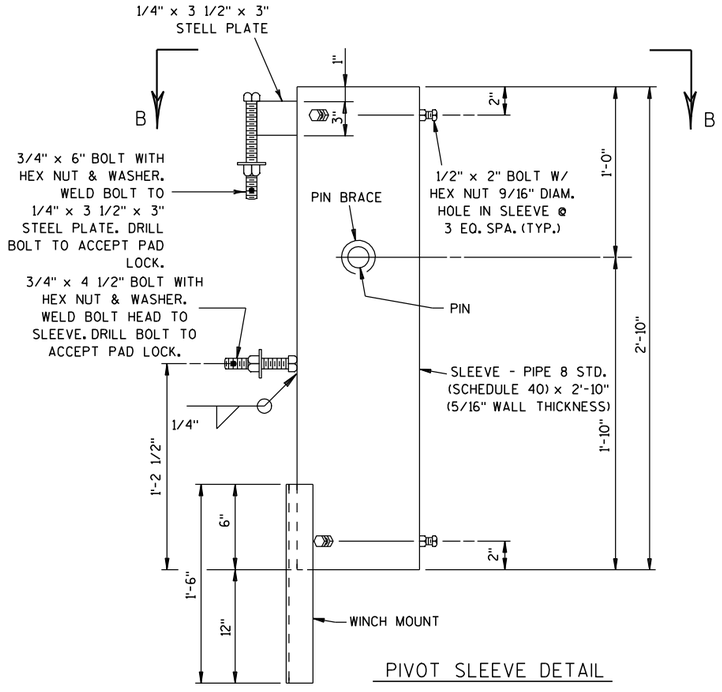
SECTION A-A
U-BOLTS NOT SHOWN



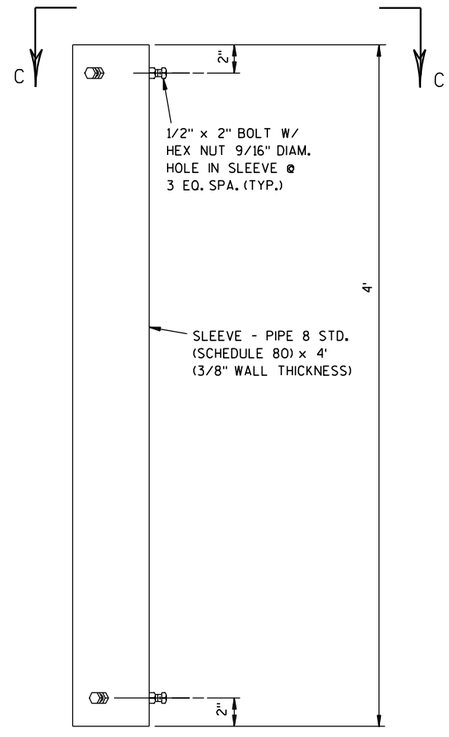
SECTION B-B



SECTION C-C



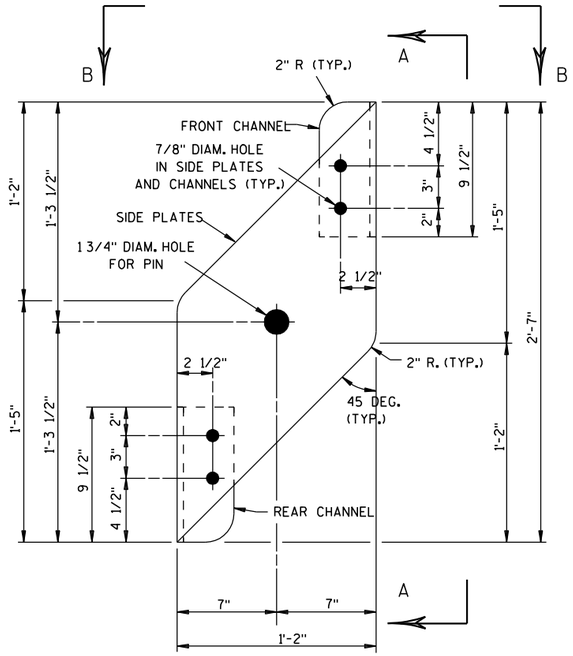
PIVOT SLEEVE DETAIL



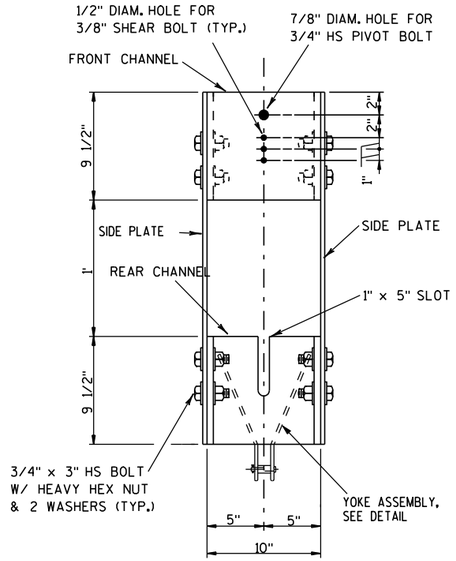
TOP COLLAR

CLOGATE20.DGN

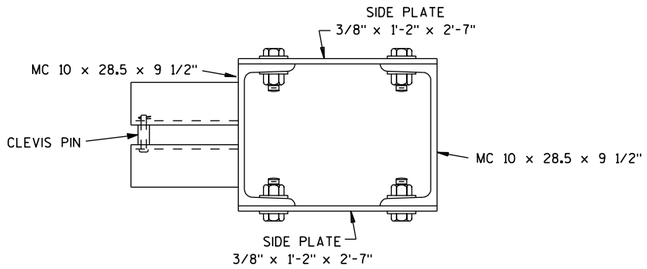
PROJECT NO: 1020-07-74	HWY: IH 94 & STH 65	COUNTY: ST. CROIX	RAMP GATE DETAILS	SHEET 56	E



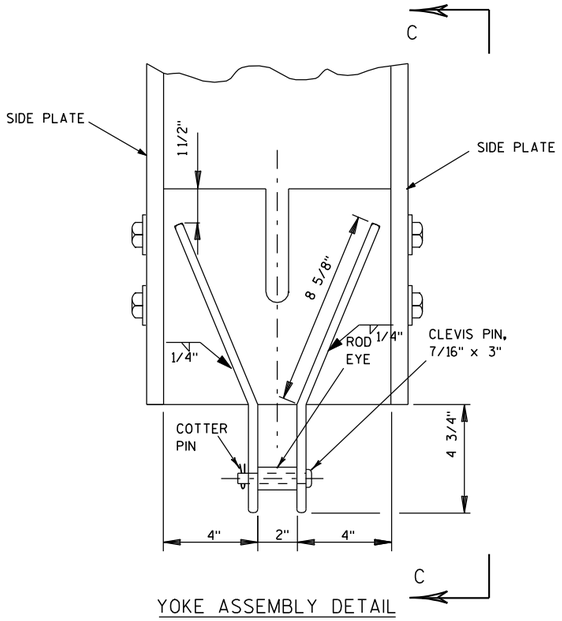
SIDE PLATE DETAIL



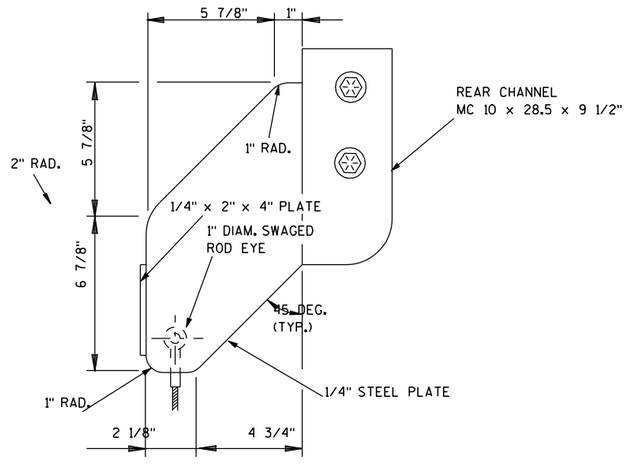
SECTION A-A



SECTION B-B



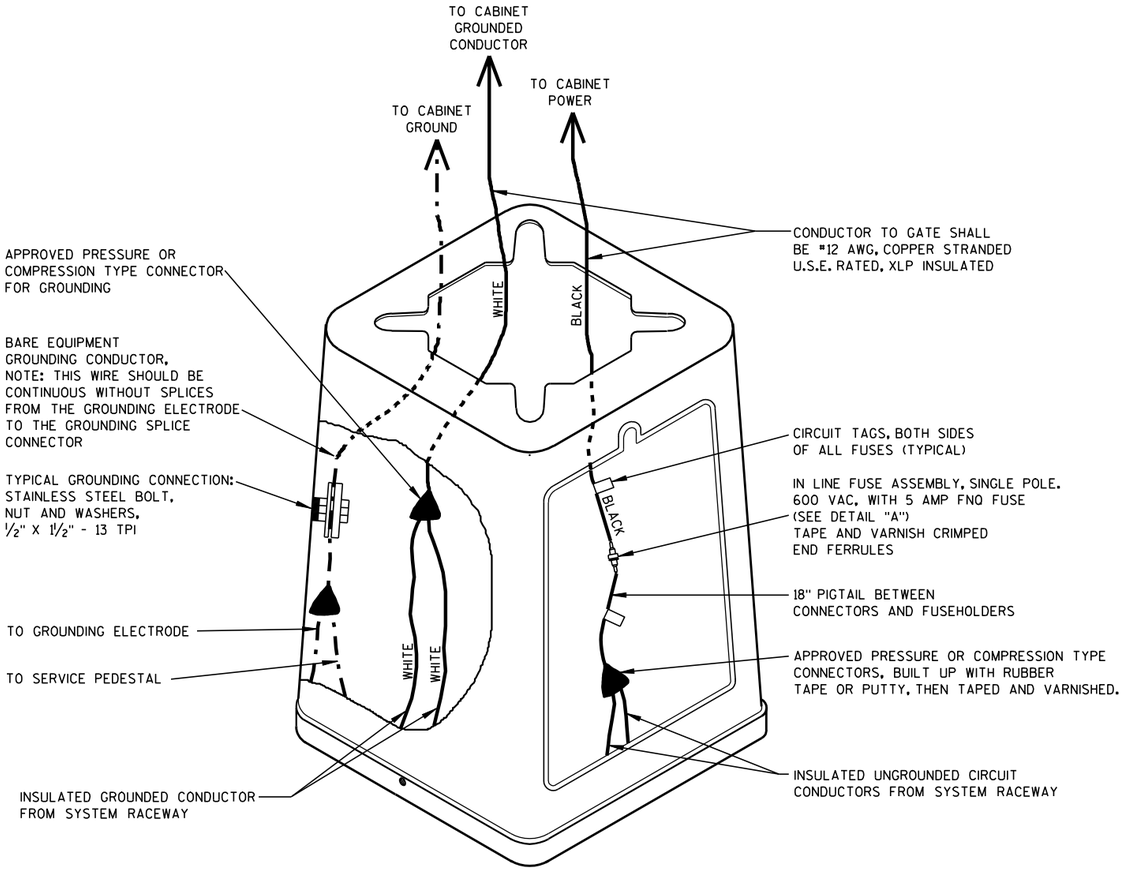
YOKE ASSEMBLY DETAIL

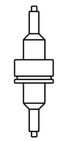


SECTION C-C

PROJECT NO: 1020-07-74	HWY: IH 94 & STH 65	COUNTY: ST. CROIX	RAMP GATE DETAILS	SHEET 57	E

2





DETAIL "A"
SINGLE POLE

2

2

N

REMOVE EXISTING CABLE
AND ABANDON CONDUIT

EXV01

EXPB10

REMOVE PULL BOX

EXCB01

EXPB11

REMOVE AND SALVAGE FOR REINSTALLATION
(1) ETHERNET SWITCH
(1) 12-COUNT F.O. TERMINATION PANEL.

REMOVE AND STORE FOR PICK UP BY
THE DEPARTMENT
(1) 5.8 GHZ ETHERNET BRIDGE

EX-CCTV-55-0004

REMOVE TEMPORARY WOOD CAMERA POLE.

SALVAGE FOR REINSTALLATION
(1) POLE-MOUNT CABINET
(1) VIDEO ENCODER
(1) DOME CAMERA

REMOVE AND STORE FOR PICK UP BY
THE DEPARTMENT
(1) 5.8 GHZ ETHERNET BRIDGE
(1) METER BREAKER SOCKET

20 Scale

PROJECT NO: 1020-07-74	HWY: IH 94 & STH 65	COUNTY: ST. CROIX	FTMS REMOVALS PLAN	SHEET 59	E

2

SPLICE NEW 6-COUNT FOC TO EXISTING WISDOT 36-COUNT FOC IN EXISTING ENCLOSURE IN EXISTING WISDOT/AT&T VAULT

INTERCEPT EXISTING CONDUIT WITH NEW PULL BOX

EXV01

PB01

PB02

PB03

PB04

PB05

PB06

PB07

PB08

PB09

PB10

PB11

RG-EB01

RG-WB01

RG-WB02

CB100

CCTV-55-0004

MD65

(2) 2-INCH NONMETALLIC CONDUITS
(1) WITH (1) 2/C NO. 12 AWG
GROUNDED UF CABLE
(1) FOR FUTURE USE

(1) TYPE 5 CONCRETE BASE
(1) TRANSFORMER BASE
(1) RAMP GATE ASSEMBLY
(1) GROUND ROD

(2) 2-INCH NONMETALLIC CONDUITS
(1) WITH (1) 6-COUNT FOC (S-F)
(1) FOR FUTURE USE

(2) 2-INCH NONMETALLIC CONDUITS
(1) WITH (1) 6-COUNT FOC (S-F)
AND (1) 2/C NO. 12 AWG GROUNDED
UF CABLE
(1) FOR FUTURE USE

(1) 50-FOOT CAMERA POLE BASE
(1) 50-FOOT CAMERA POLE (S-F)
(1) DOME CAMERA (SALVAGED)
(1) POLE-MOUNT CABINET (SALVAGED)
(1) 12-COUNT F.O. TERMINATION PANEL (SALVAGED)
(1) ETHERNET SWITCH (SALVAGED)
(1) ETHERNET VIDEO ENCODER (SALVAGED)
(1) BREAKER DISCONNECT BOX (SALVAGED)
(1) GROUND ROD

IN CONDUIT INSTALLED IN BRIDGE PARAPETINSTALL // (1) 6-COUNT FOC (S-F) AND (1) 2/C NO. 12 AWG GROUNDED UF CABLE

(2) 2-INCH NONMETALLIC CONDUITS
(1) WITH (2) 2/C NO. 12 AWG
GROUNDED UF CABLES
(1) FOR FUTURE USE

(2) 2-INCH NONMETALLIC CONDUITS
(1) WITH (1) 2/C NO. 12 AWG
GROUNDED UF CABLE
(1) FOR FUTURE USE

(1) TYPE 5 CONCRETE BASE
(1) TRANSFORMER BASE
(1) RAMP GATE ASSEMBLY
(1) GROUND ROD

(2) 2-INCH NONMETALLIC CONDUITS
(1) WITH (2) 2/C NO. 12 AWG
GROUNDED UF CABLES
(1) FOR FUTURE USE

(3) 2-INCH METALLIC CONDUITS
(1) WITH (1) 6-COUNT FOC (S-F)
AND (1) MD CABLE
(1) WITH (3) 2/C NO. 12 AWG
GROUNDED UF CABLES
(1) FOR FUTURE USE

COMBINATION LIGHTING / FTMS ELECTRICAL SERVICE PEDESTAL(CONNECTED TO LIGHTING CABINET CB100)

(1) 2-INCH METALLIC CONDUITS
(1) WITH (3) NO. 6 AWG LIGHTING WIRES AND (1) NO. 10 AWG LIGHTING WIRE

(2) 2-INCH NONMETALLIC CONDUITS
(1) WITH (1) MD CABLE
(1) FOR FUTURE USE

(1) TYPE 5 CONCRETE BASE
(1) TRANSFORMER BASE
(1) TYPE 5 POLE-STEEL
(1) MICROWAVE DETECTOR ASSEMBLY (S-F)
(1) GROUND ROD

SEE DETAIL "A"

DETAIL "A"

N

20 Scale

PROJECT NO: 1020-07-74	HWY: IH 94 & STH 65	COUNTY: ST. CROIX	FTMS PLAN	SHEET 60	E

LEGEND

FTMS CONVENTIONAL SYMBOLS

	EXISTING	PROPOSED
GROUND MOUNTED ITS CABINET		
CCTV CAMERA AND POLE		
POLE MOUNTED CABINET		
METER BREAKER PEDESTAL		
24"X36" STEEL PULL BOX		
FTMS (ITS) CONDUIT		
BREAKER DISCONNECT BOX		
COMMUNICATIONS VAULT, TYPE 1		
5.8 GHZ ETHERNET BRIDGE		

Add to the project

FTMS STANDARD ABBREVIATIONS

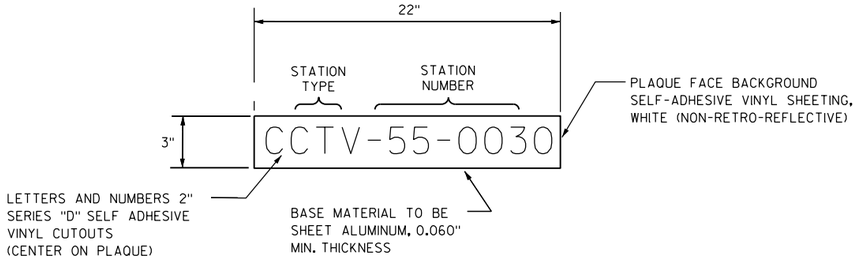
CB	CONTROLLER CABINET
CCTV	CLOSED CIRCUIT TELEVISION SITE
CV	COMMUNICATIONS VAULT
PB	PULL BOX
S-F	STATE-FURNISHED
FOC	FIBER OPTIC CABLE
MB	METER BREAKER
EX	EXISTING

FTMS GENERAL NOTES

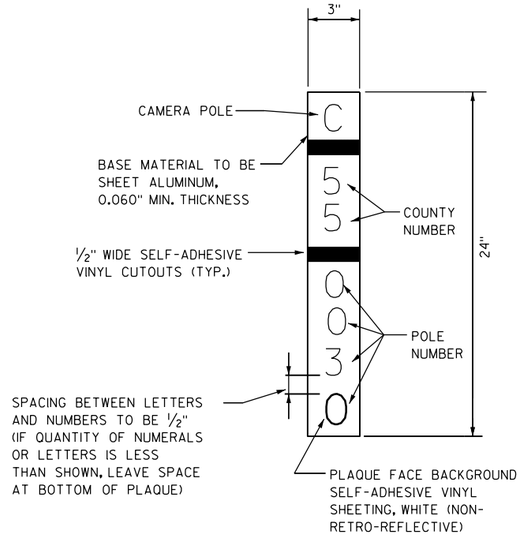
1. THESE PLANS AND THE ASSOCIATED SPECIAL PROVISIONS REFLECT CONDITIONS KNOWN DURING THE DEVELOPMENT OF THE PLANS AND TECHNICAL SPECIAL PROVISIONS. ALL SCALES, DIMENSIONS AND LOCATIONS SHOWN IN THESE PLANS ARE APPROXIMATE. ACTUAL PHYSICAL FIELD CONDITIONS SHALL PROVIDE THE BASIS FOR THE APPLICATION OF WORK SHOWN IN THE PLANS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR THE APPLICATION OF ALL WORK SHOWN IN THE PLANS TO THE ACTUAL PHYSICAL FIELD CONDITIONS TO PROVIDE A COMPLETE AND ACCEPTED PROJECT. IN THE EVENT THAT ACTUAL PHYSICAL FIELD CONDITIONS AFFECT OR PREVENT THE APPLICATION OR PROGRESSION OF ANY WORK SHOWN IN THE PLANS OR TECHNICAL SPECIAL PROVISIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY, AND PRIOR TO ANY FURTHER WORK ACTIVITY. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY LOCATION CHANGES OTHER THAN MINOR ADJUSTMENTS.
2. BE AWARE THAT ALL EXISTING UNDERGROUND AND ABOVE GROUND STRUCTURES AND FACILITIES WITHIN THE SCOPE OF THIS PROJECT MAY NOT BE LOCATED IN THE PLANS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR LOCATING AND AVOIDING ALL UNDERGROUND AND ABOVE GROUND STRUCTURES AND FACILITIES.
3. BE AWARE THAT NO TEST BORINGS WERE MADE WHERE CONDUITS, PULLBOXES, POLES, CABINET FOUNDATIONS, OR OTHER EQUIPMENT IS TO BE INSTALLED. THE CONTRACTOR IS FULLY RESPONSIBLE FOR EXAMINING THE JOB SITE CONDITIONS BEFORE SUBMITTING BID PROPOSALS.
4. NO TREES (AND/OR SHRUBS) SHALL BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.
5. AREAS WITHIN THE RIGHT-OF-WAY DISTURBED SPECIFICALLY FOR FTMS CONSTRUCTION SHALL BE RESTORED TO THE ORIGINAL CONDITION WITH TOPSOIL, FERTILIZER, SEED, AND EROSION MAT, AND SHALL BE INCLUDED IN THE COST OF INSTALLING FTMS ITEMS. RESTORATION FOR AREAS DISTURBED FOR OTHER CONSTRUCTION OPERATIONS BUT ALSO CONTAINING FTMS CONSTRUCTION SHALL BE DONE ACCORDING TO REQUIREMENTS AND PAYMENT PROVISIONS FOR THE OTHER CONSTRUCTION OPERATIONS.
6. THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
7. DUE TO RAMP, LANE, SHOULDER CLOSURE RESTRICTIONS, AND WORK UNDER OTHER CONTRACTS, SOME WORK MAY BE REQUIRED TO BE PERFORMED AT NIGHT.
8. THE CONTRACTOR IS FULLY RESPONSIBLE FOR COORDINATING RAMP, LANE, SHOULDER, AND ROADWAY CLOSURES WITH OTHER CONTRACTS IN THE AREA.
9. THE CONTRACTOR SHALL CONTACT THE WISDOT STATEWIDE TRAFFIC OPERATIONS CENTER AT (414) 227-2166 FIVE (5) WORKING DAYS PRIOR TO ENTERING ANY EXISTING WISDOT FTMS OR ITS CABINET.
10. ALL LOOP DETECTORS ARE STATIONED TO CENTER OF LEADING EDGE AS APPROACHED BY NORMAL VEHICLE PATH.
11. HAND DIG TRENCHES CROSSING EXISTING CONDUIT CONTAINING FIBER OPTIC CABLE.
12. VISUALLY VERIFY DEPTHS OF EXISTING CONDUITS CONTAINING FIBER OPTIC CABLE PRIOR TO CROSSING BY DIRECTIONAL BORE OR SPECIAL METHOD.

2

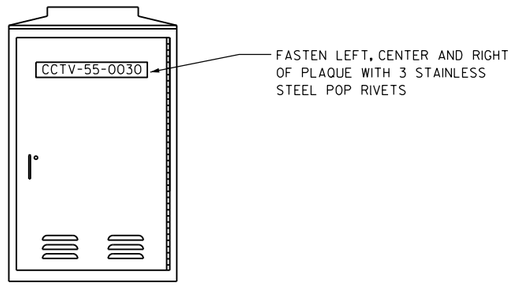
add to the project



ITS FIELD CABINET IDENTIFICATION PLAQUE DETAIL



POLE IDENTIFICATION PLAQUE DETAIL



ITS FIELD CABINET IDENTIFICATION PLAQUE REQUIREMENTS AND PLACEMENTS

(TYPICAL ALL CONTROL CABINETS)

LEGEND STATION TYPE

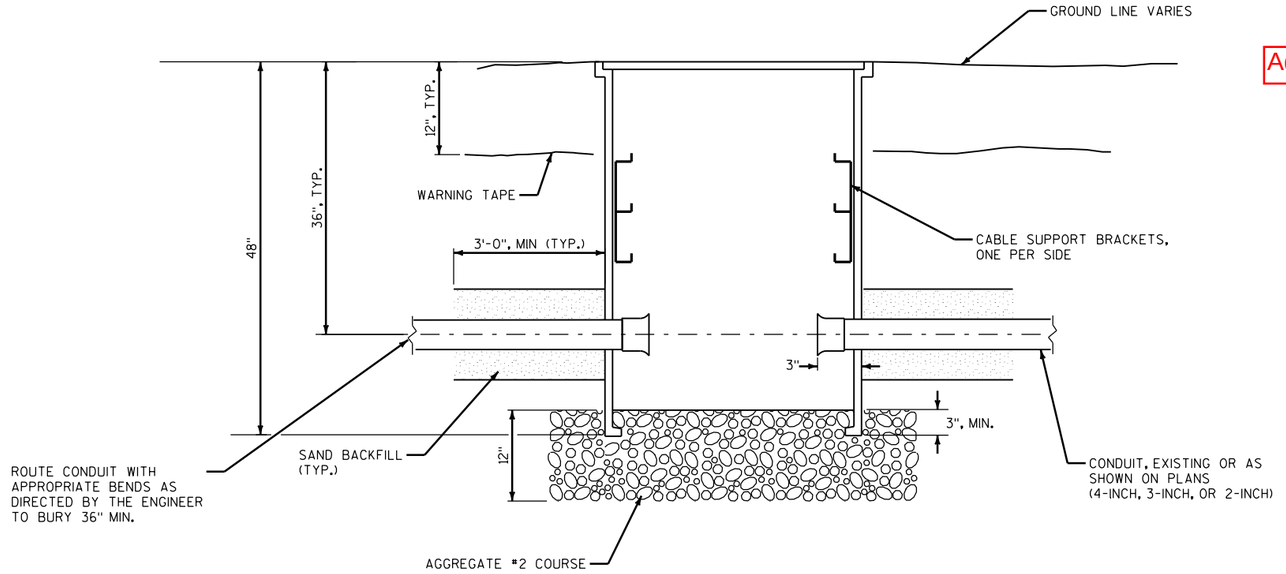
RM - RAMP METER
CCTV - CLOSED CIRCUIT TELEVISION
ATR - AUTOMATIC TRAFFIC RECORDER
SDS - SYSTEM DETECTOR STATION
MD - MICROWAVE DETECTOR

NOTES

1) TWO PLAQUES PER CABINET REQUIRED ON CONTROL CABINET.
2) FASTEN ONE PLAQUE ON FRONT DOOR, UPPER HALF.
3) FASTEN ONE PLAQUE ON SIDE FACING LOCAL STREET. IF NO LOCAL STREET NEARBY, OR IF SUCH LOCATION COINCIDES WITH LOCATION OF PLAQUE IN NOTE 2, FASTEN PLAQUE ON REAR OF CABINET, UPPER HALF.
4) COUNTY NUMBER NOT REQUIRED ON RAMP METER CABINETS.

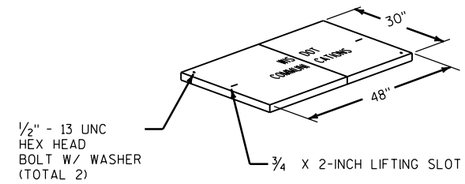
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	FTMS CONSTRUCTION DETAILS	SHEET	E

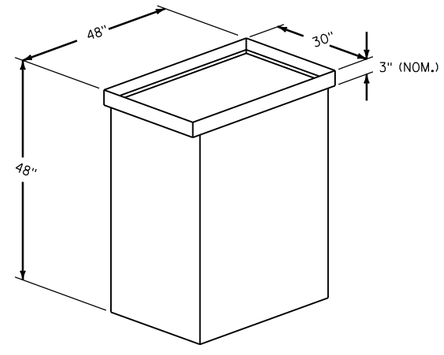
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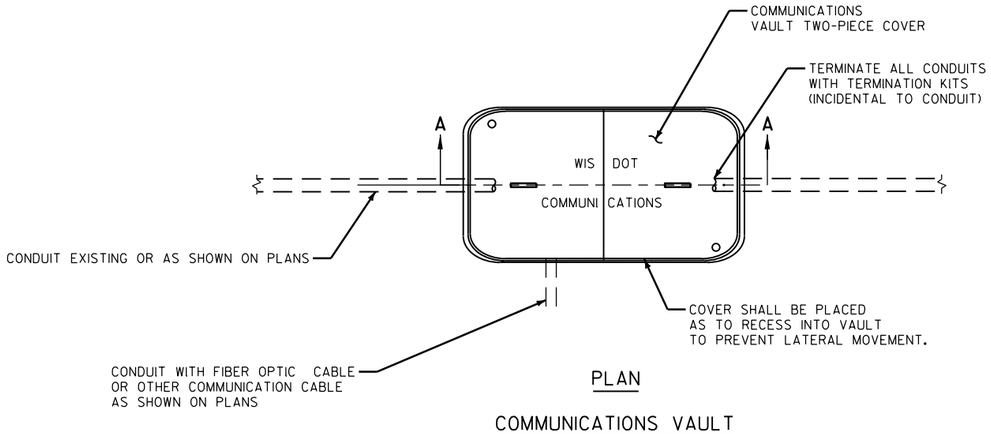
SECTION A-A

Add to the project





ISOMETRIC



PLAN

COMMUNICATIONS VAULT

NOTES

1) BOX SHALL HAVE AN OPEN BASE.

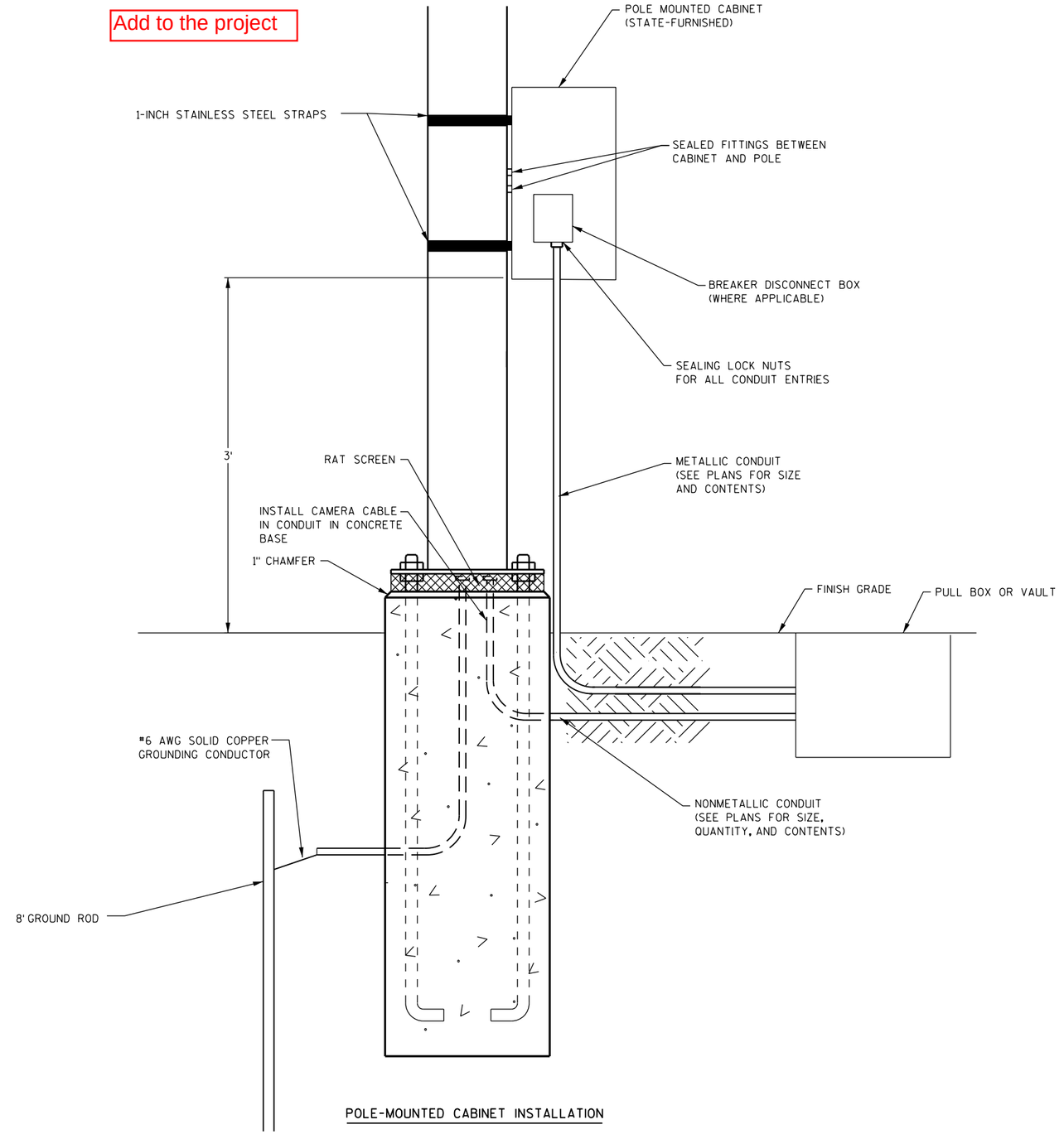
2) COVER SHALL HAVE A MINIMUM DESIGN LOAD OF 15,000 LBS AND SHALL LOCK.

3) ALL OPENINGS IN STRUCTURE MUST BE MACHINED AT TIME OF FABRICATION, OR PUNCH DRIVEN AT TIME OF PLACEMENT.

4) VAULTS SHALL BE OF ONE-PIECE CONSTRUCTION. TWO-PIECE/STACKABLE VAULTS WILL NOT BE PERMITTED.

5) FIELD PLACEMENT OF COMMUNICATIONS VAULTS SHALL BE AS DIRECTED BY THE ENGINEER.

Add to the project



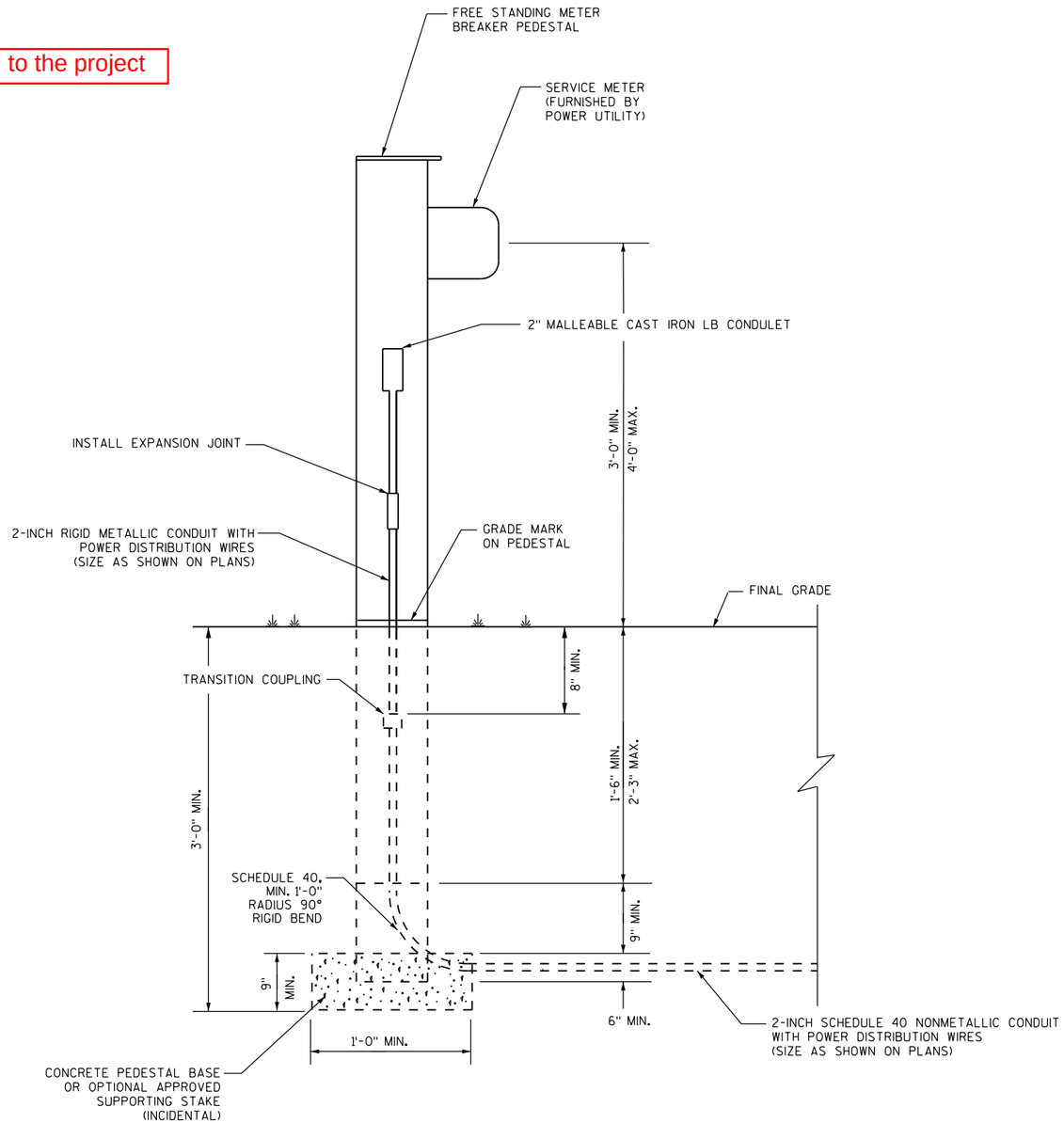
POLE-MOUNTED CABINET INSTALLATION

CLOGATE20.DGN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	FTMS CONSTRUCTION DETAILS	SHEET	E

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Add to the project



ELECTRICAL SERVICE METER BREAKER PEDESTAL

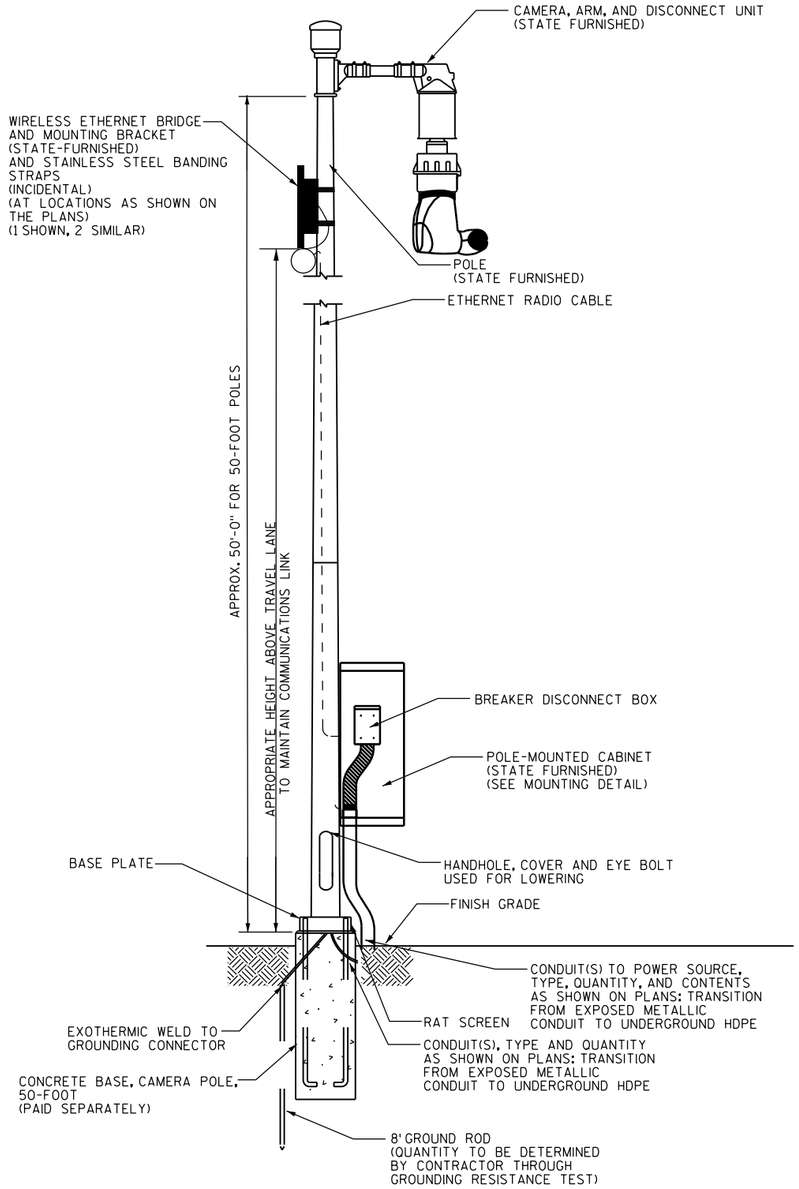
NOTES

1) MINIMUM REQUIREMENT SHOWN. ADDITIONAL BREAKERS MAY BE REQUIRED.

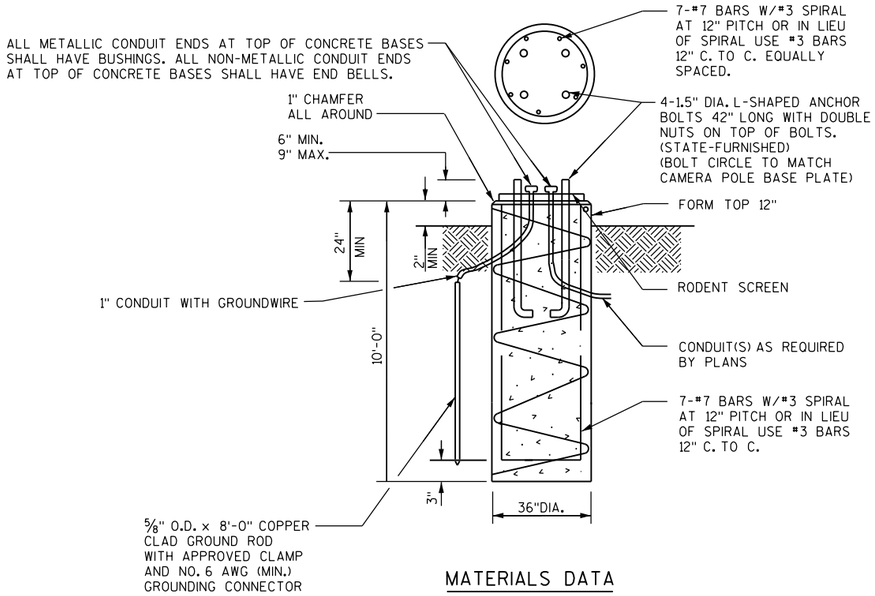
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	FTMS CONSTRUCTION DETAILS	SHEET	E

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Add to the project



CAMERA POLE WITH CAMERA LOWERING HARDWARE

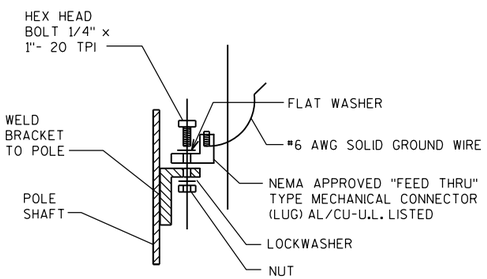


MATERIALS DATA

CONCRETE	f'c=3,500 psi
HIGH STRENGTH BAR STEEL REINFORCEMENT	fy = 60,000 psi

CONCRETE BASE, 50' CAMERA POLE

NOT TO SCALE



FIELD INSTALLED GROUNDING LUG

NOTES

1) ALL HARDWARE AND FASTENERS SHALL BE STAINLESS STEEL
2) POLE DRAWINGS SHOWN FOR BIDDING INFORMATION PURPOSES ONLY. POLES WILL BE STATE FURNISHED. BASE TO BE CONTRACTOR DESIGNED.
3) CONTRACTOR SHALL CONFIRM BOLT PATTERN OF CAMERA POLE PRIOR TO CONSTRUCTION OF CONCRETE BASE.
4) CONTRACTOR SHALL INSTALL GROUNDING LUG AS SHOWN

CAMERA POLES & FOUNDATIONS

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	FTMS CONSTRUCTION DETAILS	SHEET	E

2

2

Add to the project

N

HWY 35 / 2ND ST.

MB3501

(1) 2-INCH NONMETALLIC CONDUIT WITH
(3) NO. 6 AWG LIGHTING WIRES

(1) 2-INCH METALLIC CONDUIT WITH
(3) NO. 6 AWG LIGHTING WIRES

PB3501

CAMERA ORIENTATION

194/U.S.H. 12/S.T.H. 35

194/U.S.H. 12/S.T.H. 35

(2) 2-INCH NONMETALLIC CONDUITS
(FOR FUTURE USE)

CCTV-55-0030
(1) 50-FOOT CAMERA POLE CONCRETE BASE
(1) 50-FOOT CAMERA POLE (S-F)
(1) CCTV CAMERA (S-F)
(1) POLE-MOUNT CABINET (S-F)
(1) 5.8GHZ ETHERNET RADIO (S-F)
(1) ETHERNET VIDEO CODEC (S-F)
(1) BREAKER DISCONNECT BOX

MH

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	FTMS PLAN SHEETS	SHEET	E

FILE NAME : \\mlww400\ingrproj\60816\eau_claire\10200774\10200774_FM_02.dgn PLOT DATE : 3/27/2014 PLOT BY : pkutz PLOT NAME : PLOT SCALE : 100:1

Add to the project

2

2

N

COULEE RD.

14TH ST.

11TH ST.

194/U.S.H. 12/S.T.H. 35

194/U.S.H. 12/S.T.H. 35

CREST VIEW DR.

EXCB1401
(1) 12-COUNT TERMINATION PANEL (S-F)
(6) F.O. TERMINATIONS
(1) ETHERNET SWITCH (S-F)
(1) ETHERNET VIDEO CODEC (S-F)

INSTALL IN EXISTING CONDUIT
(1) CAMERA CABLE
(1) 5.8 GHZ ETHERNET RADIO CABLE

MB1401

CCTV-55-0031
INSTALL ON EXISTING SIGN BRIDGE
(1) CCTV CAMERA (S-F)
(1) 5.8 GHZ ETHERNET RADIO (S-F)

EXPB1401

(1) INSTALL PROPOSED CONDUIT
INTO EXISTING VAULT

CAMERA ORIENTATION

(2) 2-INCH NONMETALLIC CONDUITS, SPECIAL
(1) WITH (1) 6-COUNT FOC (S-F) AND
(1) NO. 12 AWG LIGHTING WIRE

PB1402

PB1403

PB1404

(2) 2-INCH NONMETALLIC CONDUITS
(1) WITH (1) 6-COUNT FOC (S-F) AND
(1) NO. 12 AWG LIGHTING WIRE

(2) 2-INCH NONMETALLIC CONDUITS
(1) WITH (1) 6-COUNT FOC (S-F) AND
(1) NO. 12 AWG LIGHTING WIRE

EXCVEC525MNBL
(1) INSTALL PROPOSED CONDUIT INTO EXISTING VAULT
(1) NEW TYPE 1 COMMUNICATIONS VAULT
(15) F.O. SPLICES IN NEW F.O. SPLICE ENCLOSURE (S-F)
(NOTES: VERIFY VAULT IS WISDOT'S VAULT IN THIS SYSTEM AND PLACE NEW VAULT ON TOP TO MATCH EXISTING GRADE WHEN WORK IS COMPLETED)

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	FTMS PLAN SHEETS	SHEET	E

Add to the project

CCTV-55-0032
(1) 50-FOOT CAMERA POLE CONCRETE BASE
(1) 50-FOOT CAMERA POLE (S-F)
(1) CCTV CAMERA (S-F)
(1) POLE-MOUNT CABINET (S-F)
(1) 12-COUNT F.O. TERMINATION PANEL (S-F)
(6) F.O. TERMINATIONS
(1) ETHERNET SWITCH (S-F)
(1) ETHERNET VIDEO CODEC (S-F)
(1) BREAKER DISCONNECT BOX

(1) 2-INCH METALLIC CONDUIT WITH
(3) NO. 6 AWG LIGHTING WIRES

MBT01

(2) 2-INCH NONMETALLIC CONDUITS
(1) WITH (1) 6-COUNT FOC (S-F) AND
(1) NO. 12 AWG LIGHTING WIRE

PBT01

CAMERA ORIENTATION

PBT02

(2) 2-INCH NONMETALLIC CONDUITS, SPECIAL
(1) WITH (1) 6-COUNT FOC (S-F) AND
(1) NO. 12 AWG LIGHTING WIRE

PBT03

(2) 2-INCH NONMETALLIC CONDUITS
(1) WITH (1) 6-COUNT FOC (S-F) AND
(1) NO. 12 AWG LIGHTING WIRE

PBT04

PBT05

(2) 2-INCH NONMETALLIC CONDUITS, SPECIAL
(1) WITH (1) 6-COUNT FOC (S-F) AND
(1) NO. 12 AWG LIGHTING WIRE

EXCVEC411MNBL
(1) INSTALL PROPOSED CONDUIT INTO EXISTING VAULT
(1) NEW TYPE 1 COMMUNICATIONS VAULT
(15) F.O. SPLICES IN NEW F.O. SPLICE ENCLOSURE (S-F)
(NOTES: VERIFY VAULT IS WISDOT'S VAULT IN THIS SYSTEM AND PLACE NEW VAULT ON TOP TO MATCH EXISTING GRADE WHEN WORK IS COMPLETED)

834'WB'+00 836'WB'+00 838'WB'+00 840'WB'+00 842'WB'+00 844'WB'+00 846'WB'+00 848'WB'+00
834'EB'+00 836'EB'+00 838'EB'+00 840'EB'+00 842'EB'+00 844'EB'+00 846'EB'+00 848'EB'+00

C.T.H. "T"
I 94

A171 1175.95
171 1160.23
172 1162.46
173 1152.56
178 1179.12
179 1171.60
180 1165.18
A180 1166.55
T116 1189.210

N

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	FTMS PLAN SHEETS	SHEET	E

FILE NAME : \\mlww400\ingrproj\60816\eau_claire\10200774\10200774_FM_10.dgn
PLOT DATE : 3/27/2014
PLOT BY : pkutz
PLOT NAME :
PLOT SCALE : 100:1

2

994'WB'+00
996'WB'+00
998'WB'+00
1000'WB'+00
1002'WB'+00
1004'WB'+00
1006'WB'+00
1008'WB'+00
994'EB'+00
996'EB'+00
998'EB'+00
1000'EB'+00
1002'EB'+00
1004'EB'+00
1006'EB'+00
1008'EB'+00

CCTV-55-0033
(1) 50-FOOT CAMERA POLE BASE
(1) 50-FOOT CAMERA POLE (S-F)
(1) BARREL CAMERA (S-F)
(1) POLE-MOUNTED CABINET (S-F)
(1) BREAKER DISCONNECT BOX
(1) ETHERNET SWITCH (S-F)
(1) ETHERNET VIDEO ENCODER (S-F)
(1) 12-COUNT F.O. TERMINATION PANEL (S-F)
(6) F.O. TERMINATIONS

(2) 2-INCH CONDUITS
(1) WITH (1) 6-COUNT FOC (S-F) AND
(1) NO. 12 AWG LIGHTING WIRE

CAMERA ORIENTATION

PB6306

(2) 2-INCH CONDUITS
(1) WITH (1) 6-COUNT FOC (S-F) AND
(1) NO. 12 AWG LIGHTING WIRE
(1) WITH (3) NO. 6 AWG LIGHTING WIRES

(1) 2-INCH METALLIC CONDUIT
WITH (3) NO. 6 AWG LIGHTING WIRES

(2) 2-INCH CONDUITS, SPECIAL
(1) WITH (1) 6-COUNT FOC (S-F) AND
(1) NO. 12 AWG LIGHTING WIRE
(1) WITH (3) NO. 6 AWG LIGHTING WIRES

PB6305

(1) 2-INCH CONDUIT WITH
(3) NO. 6 AWG LIGHTING WIRES

PB6304

EXCB6301

CONNECT TO EXISTING BREAKER DISCONNECT
BOX FOR LIGHTING CABINET. CONTACT
NORTHWEST REGION ELECTRICAL UNIT TO
CONNECT POWER CONDUCTORS.

(1) 2-INCH CONDUIT WITH
(1) 6-COUNT FOC (S-F) AND
(1) NO. 12 AWG LIGHTING WIRE

PB6303

(1) 2-INCH CONDUIT, SPECIAL WITH
(1) 6-COUNT FOC (S-F) AND
(1) NO. 12 AWG LIGHTING WIRE

(1) 2-INCH CONDUIT WITH
(1) 6-COUNT FOC (S-F) AND
(1) NO. 12 AWG LIGHTING WIRE

PB6301

PB6302

EXCVEC383MNBL
(1) INSTALL PROPOSED CONDUIT INTO EXISTING VAULT
(1) NEW TYPE 1 COMMUNICATIONS VAULT
(15) F.O. SPLICES IN NEW F.O. SPLICE ENCLOSURE (S-F)
(NOTES: VERIFY VAULT IS WISDOT'S VAULT IN THIS
SYSTEM AND PLACE NEW VAULT ON TOP TO MATCH
EXISTING GRADE WHEN WORK IS COMPLETED)

Add to the project

BH 1107.07
23 1112.19
BH 1119.07
196 1129.86
5.56
244
I 94
STH 63
OH
FO
SS
E
G
A/C
SIGN
GUY

N

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	FTMS PLAN SHEETS	SHEET	E

FILE NAME : \\mlww400\ingrproj\60816\eau_claire\10200774\10200774_FM_15.dgn
PLOT DATE : 3/27/2014
PLOT BY : pkutz
PLOT NAME :
PLOT SCALE : 100:1

2

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STAGE 1
STA. 414+84 EB, 150'LT
1 - CONCRETE COLLAR
1 - 17' x 24-INCH CPT
1 - 24-INCH AEWCPS REQ'D
SOUTH I.E. = 979.43
NORTH I.E. = 979.37

STAGE 1A WORK (TYP.)

IH 94 WB

402+00 WB 403+00 WB 404+00 WB 405+00 WB 406+00 WB 407+00 WB 408+00 WB 409+00 WB 410+00 WB 411+00 WB 412+00 WB 413+00 WB 414+00 WB 415+00 WB 416+00 WB

STA. 406+97 EB, 44'LT
1 - COVER PLATE TEMPORARY

402+00 EB 403+00 EB 404+00 EB 405+00 EB 406+00 EB 407+00 EB 408+00 EB 409+00 EB 410+00 EB 411+00 EB 412+00 EB 413+00 EB 414+00 EB 415+00 EB 416+00 EB

IH 94 EB

MATCH LINE STA. 416+50EB

STA. 402+00 EB, 49'LT
1 - 700' X 24-INCH CPT
2 - 24-INCH AEWCP REQ'D
I.E = 998.34

STA. 409+00 EB, 40'LT
I.E = 992.94

LEGEND

- EROSION MAT CLASS I TYPE B
- RIPRAP MEDIUM (UNLESS OTHERWISE NOTED)
- EROSION MAT CLASS III TYPE C
- SILT FENCE
- CULVERT PIPE CHECKS
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- STONE OR ROCK DITCH CHECKS
- EROSION MAT CLASS III TYPE C (CULVERT TREATMENT)
- FLOW DIRECTION
- TEMPORARY COVER PLATES

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 1	SHEET 61	E

2

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STAGE 1A WORK (TYP.)

STA. 425+23 EB, 166'LT
1 - 36-INCH AEWCPRC
NORTH I.E. = 968.09

RIPRAP HEAVY REQ'D

STAGE 1
STA. 427+98 EB, 136'LT
1 - CONCRETE COLLAR
1 - 37'x 18-INCH CPT
1 - 18-INCH AEWCP REQ'D
SOUTH I.E. = 970.18
NORTH I.E. = 969.93

MATCH LINE STA. 416+50EB

IH 94 WB

417+00 WB 418+00 WB 419+00 WB 420+00 WB 421+00 WB 422+00 WB 423+00 WB 424+00 WB 425+00 WB 426+00 WB 427+00 WB 428+00 WB 429+00 WB 430+00 WB 431+00 WB

IH 94 EB

417+00 EB 418+00 EB 419+00 EB 420+00 EB 421+00 EB 422+00 EB 423+00 EB 424+00 EB 425+00 EB 426+00 EB 427+00 EB 428+00 EB 429+00 EB 430+00 EB 431+00 EB

STAGE 1
STA. 425+78 EB, 68'RT
SKEW 13°20'19" RHF
1 - 200'x BORE & JACK 36-INCH
1 - 40'x 36-INCH CPRC
1 - 36-INCH AEWCPRC
SOUTH I.E. = 968.81

MATCH LINE STA. 431+50EB

LEGEND

- EROSION MAT CLASS I TYPE B
- RIPRAP MEDIUM (UNLESS OTHERWISE NOTED)
- EROSION MAT CLASS III TYPE C
- SILT FENCE
- CULVERT PIPE CHECKS
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- STONE OR ROCK DITCH CHECKS
- EROSION MAT CLASS III TYPE C (CULVERT TREATMENT)
- FLOW DIRECTION
- TEMPORARY COVER PLATES

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 1	SHEET 62	E

2

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MATCH LINE STA. 431+50EB

MATCH LINE STA. 446+00EB

IH 94 WB

IH 94 EB

432+00 WB 433+00 WB 434+00 WB 435+00 WB 436+00 WB 437+00 WB 438+00 WB 439+00 WB 440+00 WB 441+00 WB 442+00 WB 443+00 WB 444+00 WB 445+00 WB

432+00 EB 433+00 EB 434+00 EB 435+00 EB 436+00 EB 437+00 EB 438+00 EB 439+00 EB 440+00 EB 441+00 EB 442+00 EB 443+00 EB 444+00 EB 445+00 EB

SIGN

STAGE 1A WORK (TYP.)

STAGE 1
STA. 444+56 EB, 53' RT
SKEW 53°48'08" LHF
1 - 296'± BORE & JACK 30-INCH
1 - 56'± 30-INCH CPRC
1 - 30-INCH AEWCPRC REQ'D
SOUTH I.E. = 991.59

LEGEND

- ##### EROSION MAT CLASS I TYPE B
- RIPRAP MEDIUM (UNLESS OTHERWISE NOTED)
- EROSION MAT CLASS III TYPE C
- SILT FENCE
- CULVERT PIPE CHECKS
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- STONE OR ROCK DITCH CHECKS
- EROSION MAT CLASS III TYPE C (CULVERT TREATMENT)
- FLOW DIRECTION
- TEMPORARY COVER PLATES

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 1	SHEET 63	E

2

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RIPRAP HEAVY REQ'D

STA. 447+40 EB, 154' LT
1 - 30-INCH AEWCPRC REQ'D
NORTH I.E. = 991.38

STAGE 1
STA. 447+97 EB, 109' LT
1 - CONCRETE COLLAR
1 - 31' x 18-INCH CPT
1 - 18-INCH AEWCPS REQ'D
SOUTH I.E. = 995.53
NORTH I.E. = 994.64

STAGE 1
STA. 458+96 EB, 120' LT
1 - CONCRETE COLLAR
1 - 8' x 18-INCH CPT
1 - 18-INCH AEWCPS REQ'D
SOUTH I.E. = 1005.32
NORTH I.E. = 1005.25

STAGE 1A WORK (TYP.)

MATCH LINE STA. 446+00EB

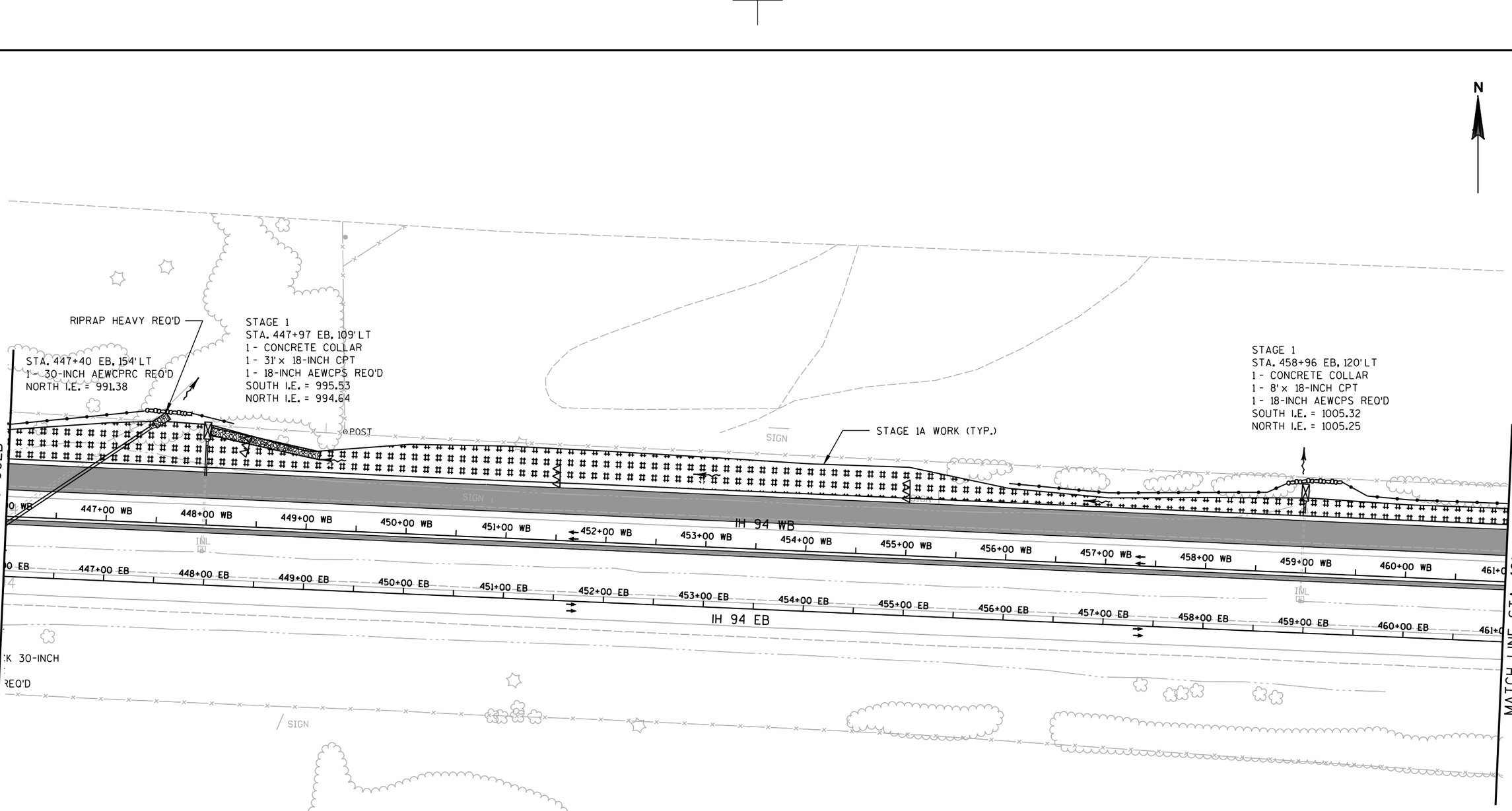
MATCH LINE STA. 461+00EB

IH 94 WB

IH 94 EB

:K 30-INCH

REQ'D



LEGEND

- EROSION MAT CLASS I TYPE B
- RIPRAP MEDIUM (UNLESS OTHERWISE NOTED)
- EROSION MAT CLASS III TYPE C
- SILT FENCE
- CULVERT PIPE CHECKS
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- STONE OR ROCK DITCH CHECKS
- EROSION MAT CLASS III TYPE C (CULVERT TREATMENT)
- FLOW DIRECTION
- TEMPORARY COVER PLATES

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 1	SHEET 64	E

2

N

STAGE 1
STA. 467+01 EB, 128' LT
1 - CONCRETE COLLAR
1 - 38' x 18-INCH CPT
1 - 18-INCH AEWCPS REQ'D
SOUTH I.E. = 1013.72
NORTH I.E. = 1013.35

STAGE 1A WORK (TYP.)

STAGE 1
STA. 475+01 EB, 124' LT
1 - CONCRETE COLLAR
1 - 26' x 30-INCH CPT
SOUTH I.E. = 1040.08
NORTH I.E. = 1039.94

MATCH LINE STA. 461+00 EB

MATCH LINE STA. 476+00 EB

IH 94 WB

462+00 WB 463+00 WB 464+00 WB 465+00 WB 466+00 WB 467+00 WB 468+00 WB 469+00 WB 470+00 WB 471+00 WB 472+00 WB 473+00 WB 474+00 WB 475+00 WB

IH 94 EB

462+00 EB 463+00 EB 464+00 EB 465+00 EB 466+00 EB 467+00 EB 468+00 EB 469+00 EB 470+00 EB 471+00 EB 472+00 EB 473+00 EB 474+00 EB 475+00 EB

SIGN

INL

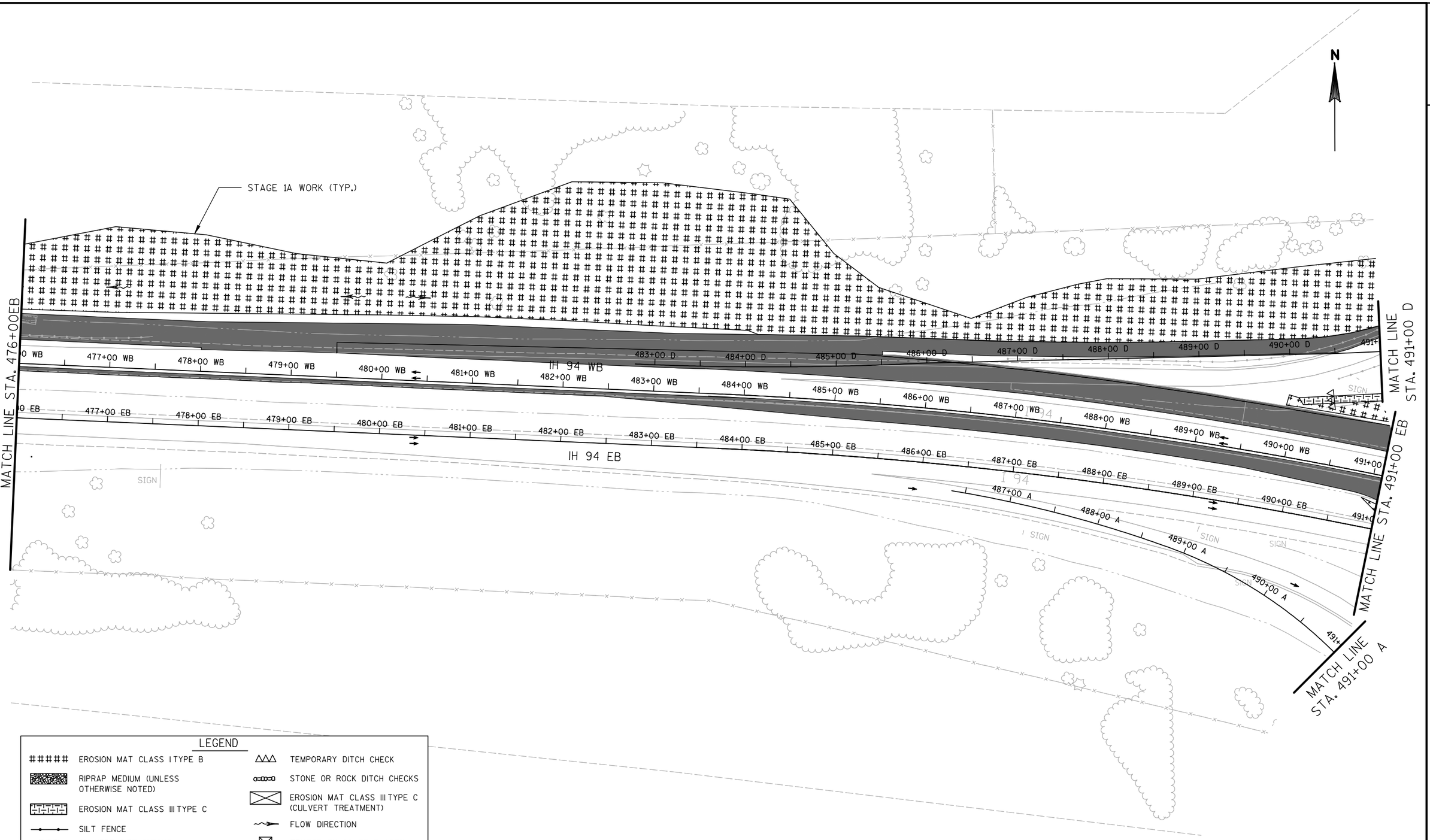
WIRES

LEGEND

- EROSION MAT CLASS I TYPE B
- RIPRAP MEDIUM (UNLESS OTHERWISE NOTED)
- EROSION MAT CLASS III TYPE C
- SILT FENCE
- CULVERT PIPE CHECKS
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- STONE OR ROCK DITCH CHECKS
- EROSION MAT CLASS III TYPE C (CULVERT TREATMENT)
- FLOW DIRECTION
- TEMPORARY COVER PLATES

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 1	SHEET 65	E

2



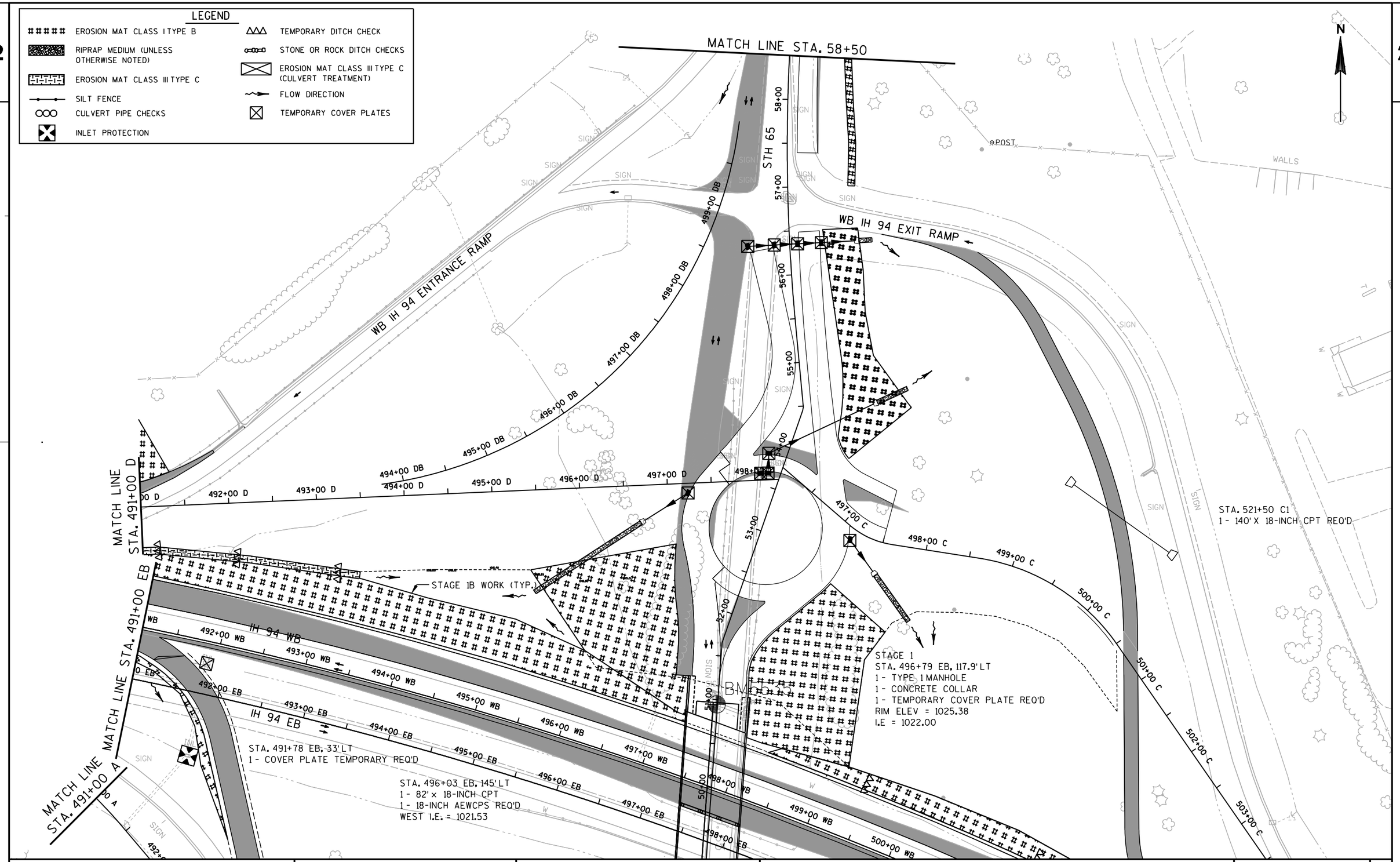
LEGEND

##### EROSION MAT CLASS I TYPE B	TEMPORARY DITCH CHECK
RIPRAP MEDIUM (UNLESS OTHERWISE NOTED)	STONE OR ROCK DITCH CHECKS
EROSION MAT CLASS III TYPE C	EROSION MAT CLASS III TYPE C (CULVERT TREATMENT)
SILT FENCE	FLOW DIRECTION
CULVERT PIPE CHECKS	TEMPORARY COVER PLATES
INLET PROTECTION	

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 1	SHEET 66	E

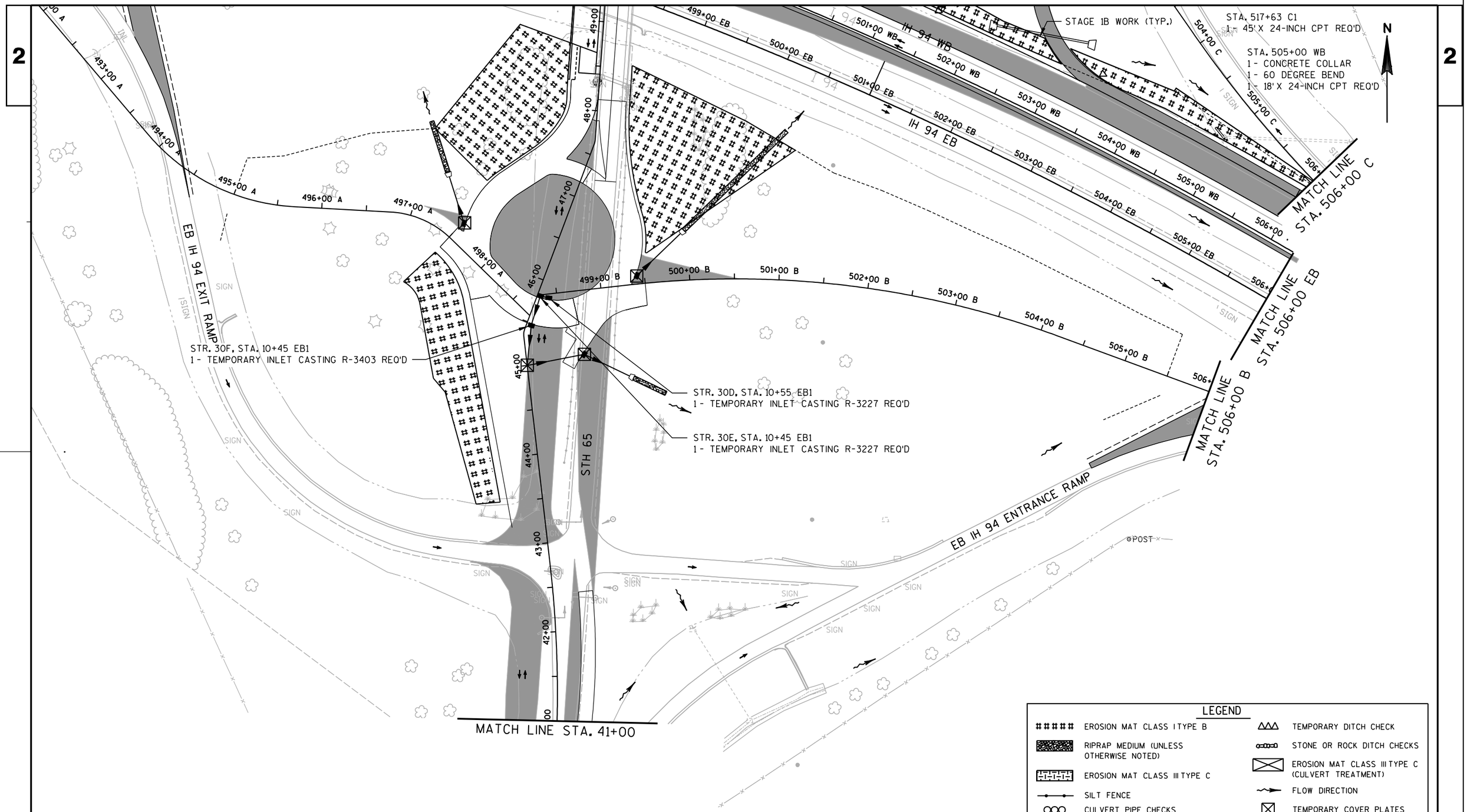
LEGEND

- EROSION MAT CLASS I TYPE B
- RIPRAP MEDIUM (UNLESS OTHERWISE NOTED)
- EROSION MAT CLASS III TYPE C
- SILT FENCE
- CULVERT PIPE CHECKS
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- STONE OR ROCK DITCH CHECKS
- EROSION MAT CLASS III TYPE C (CULVERT TREATMENT)
- FLOW DIRECTION
- TEMPORARY COVER PLATES



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 1	SHEET 67	E

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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 1	SHEET 68	E

2

STAGE 1
STA. 509+03 EB, 147' LT
3 - CONCRETE COLLAR
3 - 10' x 48-INCH CPT
SOUTH I.E. = 1006.82
NORTH I.E. = 1006.77

STAGE 1A WORK (TYP.)

STAGE 1C-1 WORK (TYP.)

STAGE 1
STA. 516+04 EB, 120' LT
1 - CONCRETE COLLAR
1 - 29' x 18-INCH CPT
SOUTH I.E. = 1012.75
NORTH I.E. = 1012.69

MATCH LINE STA. 506+00 C

MATCH LINE STA. 506+00 EB

MATCH LINE STA. 506+00 B

MATCH LINE STA. 520+00 EB

IH 94 WB

IH 94 EB

EB IH 94 ENTRANCE RAMP

STAGE 1
STA. 507+00 EB, 44' RT
1 - CONCRETE COLLAR
1 - 30 DEGREE BEND
1 - 16' X 30-INCH CPT

STAGE 1
STA. 507+13 'B1', 16' LT
1 - 52' X 24-INCH CPT REQ'D

SIGN

POST

LEGEND

- EROSION MAT CLASS I TYPE B
- RIPRAP MEDIUM (UNLESS OTHERWISE NOTED)
- EROSION MAT CLASS III TYPE C
- SILT FENCE
- CULVERT PIPE CHECKS
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- STONE OR ROCK DITCH CHECKS
- EROSION MAT CLASS III TYPE C (CULVERT TREATMENT)
- FLOW DIRECTION
- TEMPORARY COVER PLATES

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 1	SHEET 69	E

2

2

STAGE 1A WORK (TYP.)

IH 94 WB

IH 94 EB

MATCH LINE, STA. 520+00 EB

0 WB 521+00 WB 522+00 WB 523+00 WB 524+00 WB 525+00 WB 526+00 WB 527+00 WB 528+00 WB 529+00 WB 530+00 WB 531+00 WB 532+00 WB 533+00 WB 534+00 WB 535+00 WB

0 EB 521+00 EB 522+00 EB 523+00 EB 524+00 EB 525+00 EB 526+00 EB 527+00 EB 528+00 EB 529+00 EB 530+00 EB 531+00 EB 532+00 EB 533+00 EB 534+00 EB 535+00 EB

I 94

SIGN

STAGE 1
STA. 527+04 EB, 32' LT
1 - RECONSTRUCTING INLETS REQ'D
RIM ELEV= 1019.00

STAGE 1
STA. 531+50 EB, 2.3' LT
1 - 8-MS INLET
1 - 144' x 24-INCH CPRC
1 - 24-INCH AEWCPRC REQ'D
RIM ELEV = 1024.57 (FIELD VERIFY)
EAST I.E. = 1020.82
WEST I.E. = 1020.43

LEGEND

- ##### EROSION MAT CLASS I TYPE B
- RIPRAP MEDIUM (UNLESS OTHERWISE NOTED)
- EROSION MAT CLASS III TYPE C
- SILT FENCE
- CULVERT PIPE CHECKS
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- STONE OR ROCK DITCH CHECKS
- EROSION MAT CLASS III TYPE C (CULVERT TREATMENT)
- FLOW DIRECTION
- TEMPORARY COVER PLATES

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 1	SHEET 70	E

2

N

STAGE 1
STA. 40+11
1 - 163' x 60-INCH CPRC CLASS III
2 - 60-INCH AEWCPRC
1 - CONCRETE COLLAR
WEST I.E. = 1028.46
EAST I.E. = 1025.48

STAGE 1B
STA. 35+91, 44' RT
1 - 166' x 29-INCH X 45-INCH CPRCHE
2 - 29-INCH X 45-INCH AEWCPRCHE
SOUTH I.E. = 1041.12
NORTH I.E. = 1038.60

STAGE 1B
STA. 36+02, 48' RT
1 - 155' x 29-INCH X 45-INCH CPRCHE
2 - 29-INCH X 45-INCH AEWCPRCHE
SOUTH I.E. = 1041.12
NORTH I.E. = 1038.60

RIPRAP HEAVY REQ'D

MATCH LINE STA. 41+00

STH 65

32+00 33+00 34+00 35+00 36+00 37+00 38+00 39+00 40+00 41+

SIGN

LEGEND

- ##### EROSION MAT CLASS I TYPE B
- RIPRAP MEDIUM (UNLESS OTHERWISE NOTED)
- EROSION MAT CLASS III TYPE C
- SILT FENCE
- CULVERT PIPE CHECKS
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- STONE OR ROCK DITCH CHECKS
- EROSION MAT CLASS III TYPE C (CULVERT TREATMENT)
- FLOW DIRECTION
- TEMPORARY COVER PLATES

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 1	SHEET 71	E

2

LEGEND

- EROSION MAT CLASS I TYPE B
- RIPRAP MEDIUM (UNLESS OTHERWISE NOTED)
- EROSION MAT CLASS III TYPE C
- SILT FENCE
- CULVERT PIPE CHECKS
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- STONE OR ROCK DITCH CHECKS
- EROSION MAT CLASS III TYPE C (CULVERT TREATMENT)
- FLOW DIRECTION
- TEMPORARY COVER PLATES

N

MATCH LINE STA. 58+50

70TH AVENUE

STH 65

59+00 60+00 61+00 62+00 63+00 64+00 65+00 66+00 67+00 68+00 69+00 70+00 71+00 72+00 73+00 74+00

SIGN

STAGE 1
STA. 10+87 PK
1 - 71' x 18-INCH CP CLASS III
2 - 18-INCH AEWCPRC REQ'D
WEST I.E. = 995.90
EAST I.E. = 995.70

STAGE 1
STA. 10+90 PK
1 - 68' x 18-INCH CP CLASS III
2 - 18-INCH AEWCPRC REQ'D
WEST I.E. = 995.90
EAST I.E. = 995.70

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 1	SHEET 72	E

2

N

STA. 414+61 EB, 164' LT
1 - 136' x BORE & JACK 30-INCH
1 - 6' x 30-INCH CPRC
1 - 30-INCH AEWCPRC
NORTH I.E. = 979.66

RIPRAP HEAVY REQ'D

IH 94 WB

402+00 WB 403+00 WB 404+00 WB 405+00 WB 406+00 WB 407+00 WB 408+00 WB 409+00 WB 410+00 WB 411+00 WB 412+00 WB 413+00 WB 414+00 WB 415+00 WB 416+00 WB

402+00 EB 403+00 EB 404+00 EB 405+00 EB 406+00 EB 407+00 EB 408+00 EB 409+00 EB 410+00 EB 411+00 EB 412+00 EB 413+00 EB 414+00 EB 415+00 EB 416+00 EB

IH 94 EB

I 94

MATCH LINE STA. 416+50EB

STAGE 2
STA. 406+97 EB, 66' RT
1 - CONCRETE COLLAR
1 - 18' x 18-INCH CPRC
1 - 18-INCH AEWCPRC
SOUTH I.E. = 984.96
NORTH I.E. = 985.08

STAGE 2A WORK (TYP.)

STAGE 2
STA. 415+25 EB, 36' LT
1 - 8-MS INLET
SKEW 26°54'13" RHF
RIM ELEV = 987.62
I.E. = 982.44

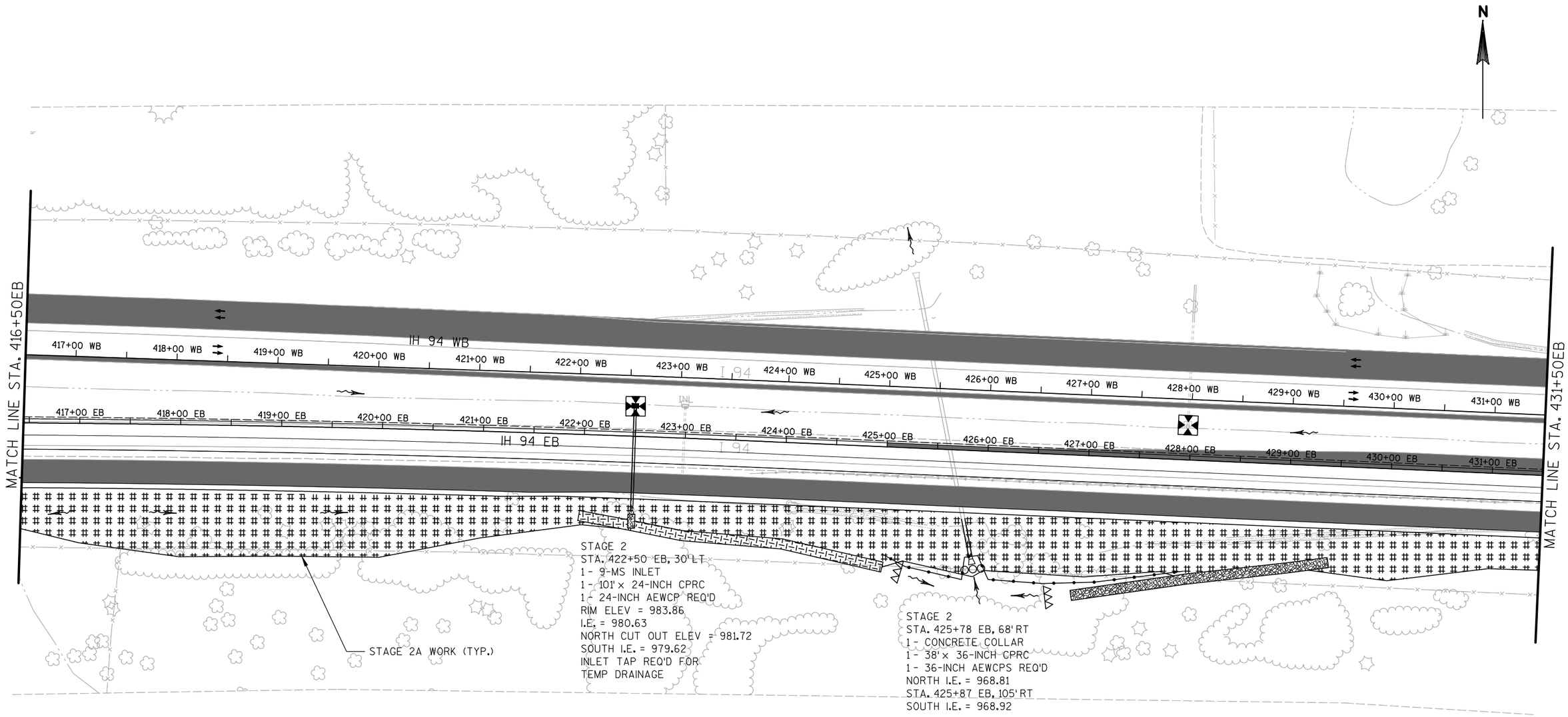
STA. 415+77 EB, 67' RT
1 - 122' x 30-INCH CPRC
1 - 30-INCH AEWCPRC
SOUTH I.E. = 984.68

LEGEND

- ##### EROSION MAT CLASS I TYPE B
- RIPRAP MEDIUM (UNLESS OTHERWISE NOTED)
- EROSION MAT CLASS III TYPE C
- SILT FENCE
- CULVERT PIPE CHECKS
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- STONE OR ROCK DITCH CHECKS
- EROSION MAT CLASS III TYPE C (CULVERT TREATMENT)
- FLOW DIRECTION
- TEMPORARY COVER PLATES

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 2	SHEET 73	E

2



LEGEND

##### EROSION MAT CLASS I TYPE B	TEMPORARY DITCH CHECK
RIPRAP MEDIUM (UNLESS OTHERWISE NOTED)	STONE OR ROCK DITCH CHECKS
EROSION MAT CLASS III TYPE C	EROSION MAT CLASS III TYPE C (CULVERT TREATMENT)
SILT FENCE	FLOW DIRECTION
CULVERT PIPE CHECKS	TEMPORARY COVER PLATES
INLET PROTECTION	

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 2	SHEET 74	E

2

2

N

MATCH LINE STA. 431+50EB

MATCH LINE STA. 446+00EB

IH 94 WB

IH 94 EB

432+00 WB 433+00 WB 434+00 WB 435+00 WB 436+00 WB 437+00 WB 438+00 WB 439+00 WB 440+00 WB 441+00 WB 442+00 WB 443+00 WB 444+00 WB 445+00 WB

432+00 EB 433+00 EB 434+00 EB 435+00 EB 436+00 EB 437+00 EB 438+00 EB 439+00 EB 440+00 EB 441+00 EB 442+00 EB 443+00 EB 444+00 EB 445+00 EB

SIGN

STAGE 2A WORK (TYP.)

STAGE 2
STA. 440+00 EB, 31' LT
1 - 9-MS INLET
1 - COVER PLATE TEMPORARY
1 - 100' x 19-INCH X 30-INCH CPRCHE
1 - 19-INCH X 30-INCH AEWCPRCHE REQ'D
RIM ELEV = 995.55
I.E = 992.71
SOUTH I.E. = 992.21

STAGE 2
STA. 444+56 EB, 53' RT
1 - 56' x 30-INCH CPRC
1 - 30-INCH AEWCPS REQ'D
NORTH I.E. = 991.59
STA. 444+11 EB, 86' RT
SOUTH I.E. = 991.61

LEGEND

- ##### EROSION MAT CLASS I TYPE B
- RIPRAP MEDIUM (UNLESS OTHERWISE NOTED)
- EROSION MAT CLASS III TYPE C
- SILT FENCE
- CULVERT PIPE CHECKS
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- STONE OR ROCK DITCH CHECKS
- EROSION MAT CLASS III TYPE C (CULVERT TREATMENT)
- FLOW DIRECTION
- TEMPORARY COVER PLATES

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 2	SHEET 75	E

2

N

MATCH LINE STA. 446+00EB

MATCH LINE STA. 461+00EB

IH 94 WB

IH 94 EB

447+00 WB
448+00 WB
449+00 WB
450+00 WB
451+00 WB
452+00 WB
453+00 WB
454+00 WB
455+00 WB
456+00 WB
457+00 WB
458+00 WB
459+00 WB
460+00 WB

447+00 EB
448+00 EB
449+00 EB
450+00 EB
451+00 EB
452+00 EB
453+00 EB
454+00 EB
455+00 EB
456+00 EB
457+00 EB
458+00 EB
459+00 EB
460+00 EB

POST

SIGN

SIGN

SIGN

STAGE 2A WORK (TYP.)

STAGE 2
STA. 458+96 EB, 32' LT
1- RECONSTRUCTING INLETS REQ'D
RIM ELEV= 1010.65

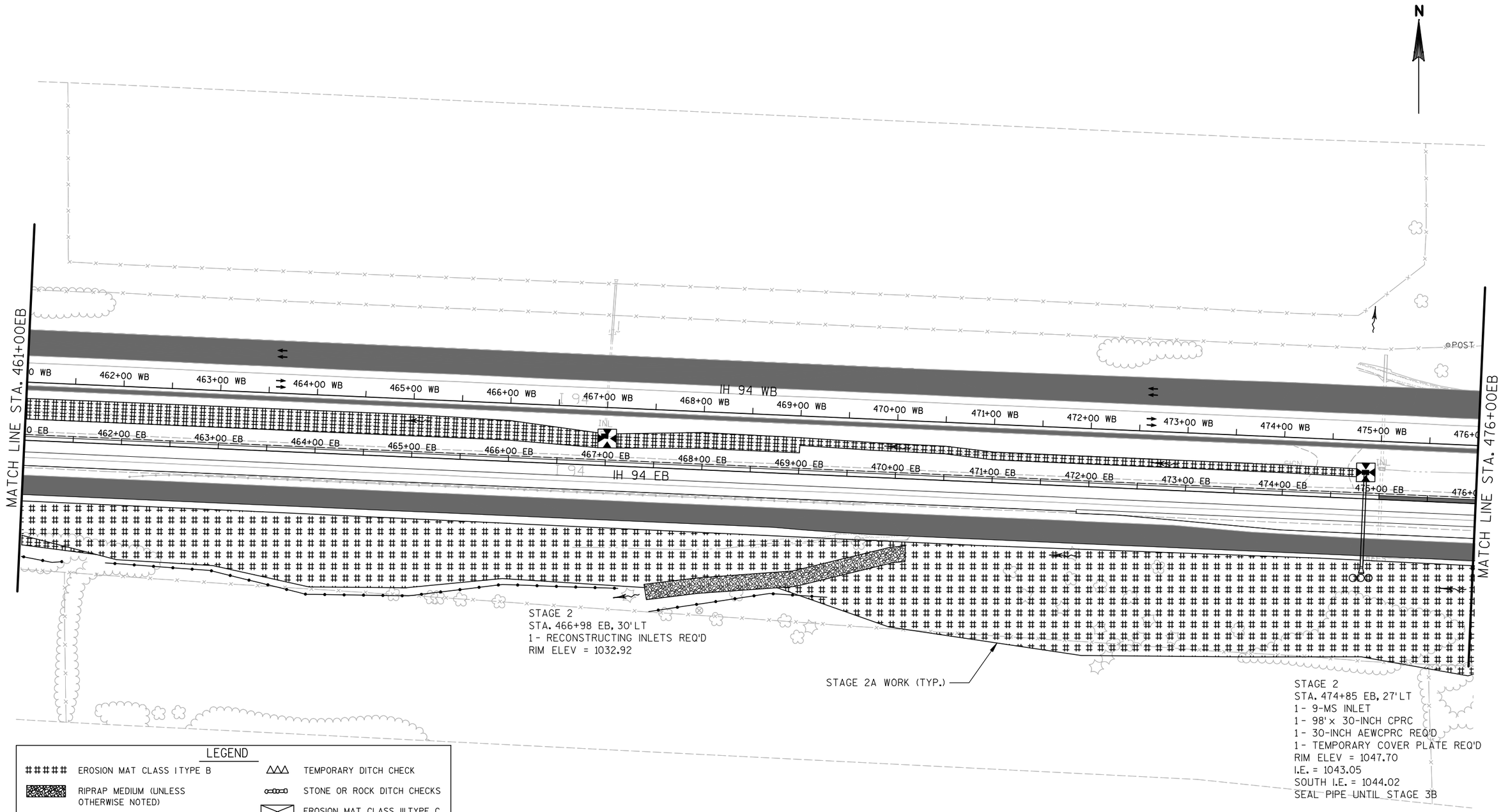
LEGEND

- ##### EROSION MAT CLASS I TYPE B
- RIPRAP MEDIUM (UNLESS OTHERWISE NOTED)
- EROSION MAT CLASS III TYPE C
- SILT FENCE
- CULVERT PIPE CHECKS
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- STONE OR ROCK DITCH CHECKS
- EROSION MAT CLASS III TYPE C (CULVERT TREATMENT)
- FLOW DIRECTION
- TEMPORARY COVER PLATES

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 2	SHEET 76	E

2

2



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 2	SHEET 77	E

2

2

N

MATCH LINE STA. 476+00 EB

MATCH LINE STA. 491+00 D

MATCH LINE STA. 491+00 EB

MATCH LINE STA. 491+00 A

IH 94 WB

IH 94 EB

STAGE 2A WORK (TYP.)

LEGEND

- EROSION MAT CLASS I TYPE B
- RIPRAP MEDIUM (UNLESS OTHERWISE NOTED)
- EROSION MAT CLASS III TYPE C
- SILT FENCE
- CULVERT PIPE CHECKS
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- STONE OR ROCK DITCH CHECKS
- EROSION MAT CLASS III TYPE C (CULVERT TREATMENT)
- FLOW DIRECTION
- TEMPORARY COVER PLATES

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 2	SHEET 78	E

2

LEGEND

- EROSION MAT CLASS I TYPE B
- RIPRAP MEDIUM (UNLESS OTHERWISE NOTED)
- EROSION MAT CLASS III TYPE C
- SILT FENCE
- CULVERT PIPE CHECKS
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- STONE OR ROCK DITCH CHECKS
- EROSION MAT CLASS III TYPE C (CULVERT TREATMENT)
- FLOW DIRECTION
- TEMPORARY COVER PLATES

MATCH LINE STA. 58+50

N

WB IH 94 ENTRANCE RAMP

WB IH 94 EXIT RAMP

STH 65

MATCH LINE STA. 491+00 D

MATCH LINE STA. 491+00 EB

MATCH LINE STA. 491+00 A

IH 94 WB

IH 94 EB

A1 RAMP TEMP.
STAGE 1D-2A

STAGE 2
STA. 495+00 EB
1 - 125' x BORE & JACK 36-INCH
1 - 36-INCH AEWCPRC REQ'D
NORTH I.E = 1020.14

STAGE 2A WORK (TYP.)

HEAVY RIPRAP REQ'D

STAGE 2
STA. 495+00 EB, 32' LT
1 - 9-MS INLET
1 - 103' x 36-INCH CPRC
1 - 36-INCH AEWCPRC REQ'D
RIM ELEV = 1029.57
I.E. = 1020.51
SOUTH I.E. = 1020.82

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 2	SHEET 79	E

STAGE 2
STA. 492+50 A, 37' RT
1 - 62' x 36-INCH CPRC
2 - 36-INCH AEWCPRC REQ'D
NORTH I.E. = 1035.09
SOUTH I.E. = 1035.40

HEAVY RIPRAP REQ'D

A1 RAMP TEMP.
STAGE 1D-2A

A2 RAMP TEMP.
STAGE 2A-3D

STAGE 2A WORK (TYP.)

STAGE 2
STA. 505+75 C, 48' LT
1 - 168' x BORE & JACK 30-INCH
1 - 30-INCH AEWCPRC REQ'D
NORTH I.E. = 1007.45

HEAVY RIPRAP REQ'D

STAGE 2
STA. 505+17 EB, 35' LT
1 - 9-MS INLET
1 - 90' x 24-INCH X 38-INCH CPRCHE
1 - 24-INCH AEWCPRCHE REQ'D
RIM ELEV = 1011.71
I.E. = 1007.96
SOUTH I.E. = 1008.24

IH 94 WB

IH 94 EB

STH 65

EB IH 94 EXIT RAMP

EB IH 94 ENTRANCE RAMP

MATCH LINE STA. 506+00 C

MATCH LINE STA. 506+00 B

MATCH LINE STA. 506+00 EB

MATCH LINE STA. 41+00

N

SIGN

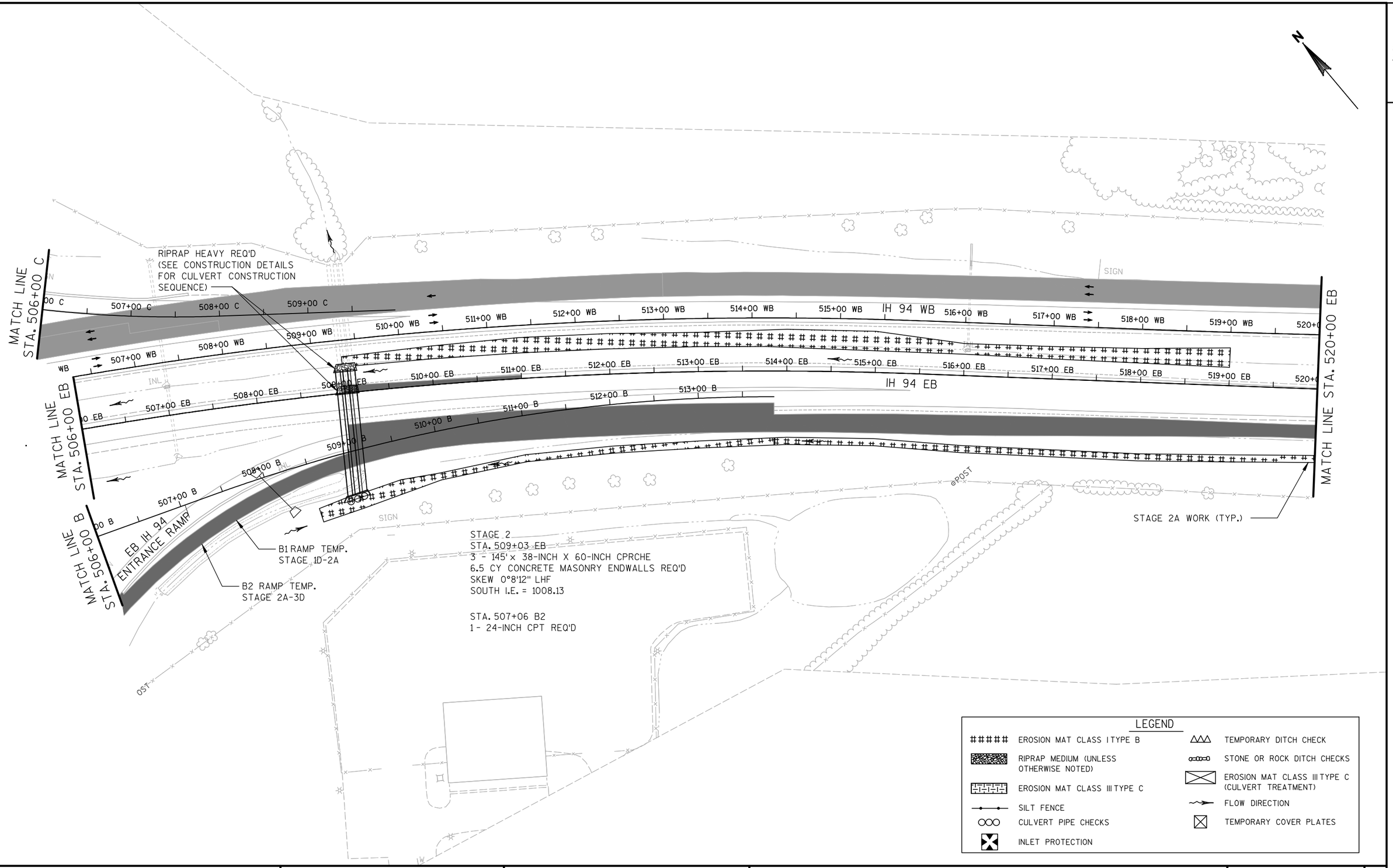
POS

LEGEND

- EROSION MAT CLASS I TYPE B
- RIPRAP MEDIUM (UNLESS OTHERWISE NOTED)
- EROSION MAT CLASS III TYPE C
- SILT FENCE
- CULVERT PIPE CHECKS
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- STONE OR ROCK DITCH CHECKS
- EROSION MAT CLASS III TYPE C (CULVERT TREATMENT)
- FLOW DIRECTION
- TEMPORARY COVER PLATES

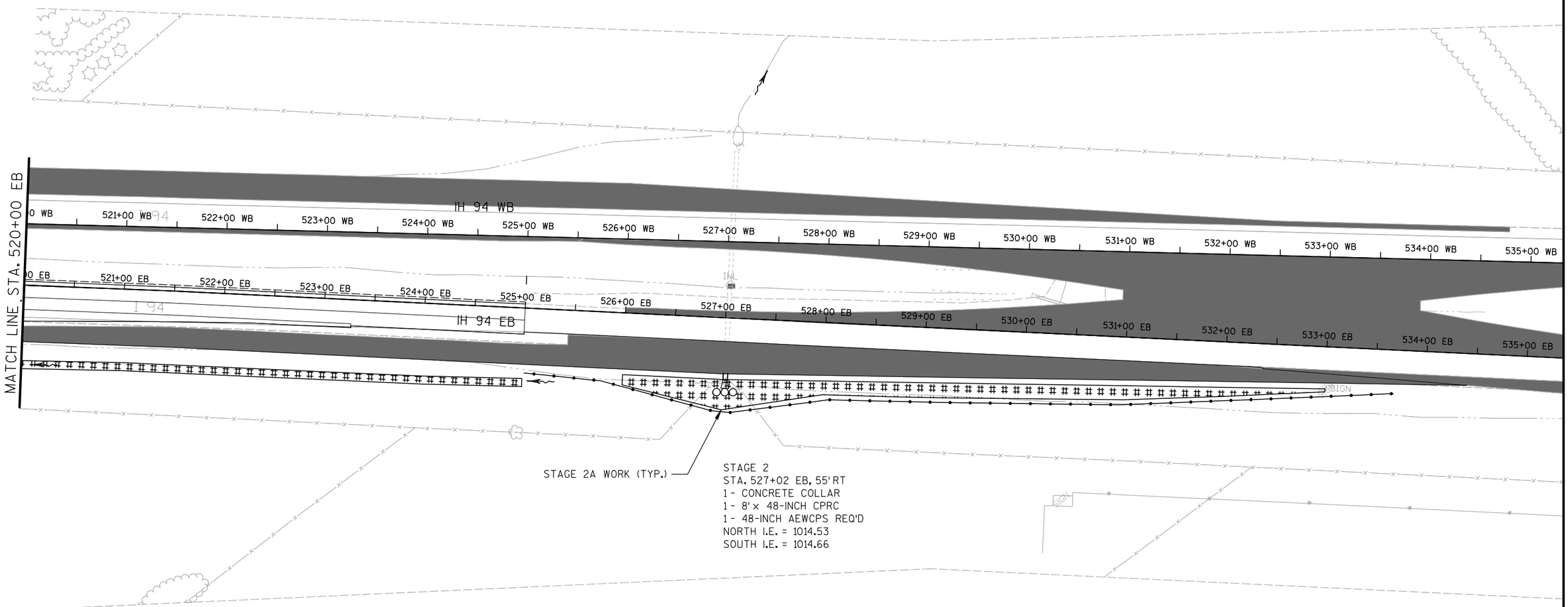
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 2	SHEET 80	E

2



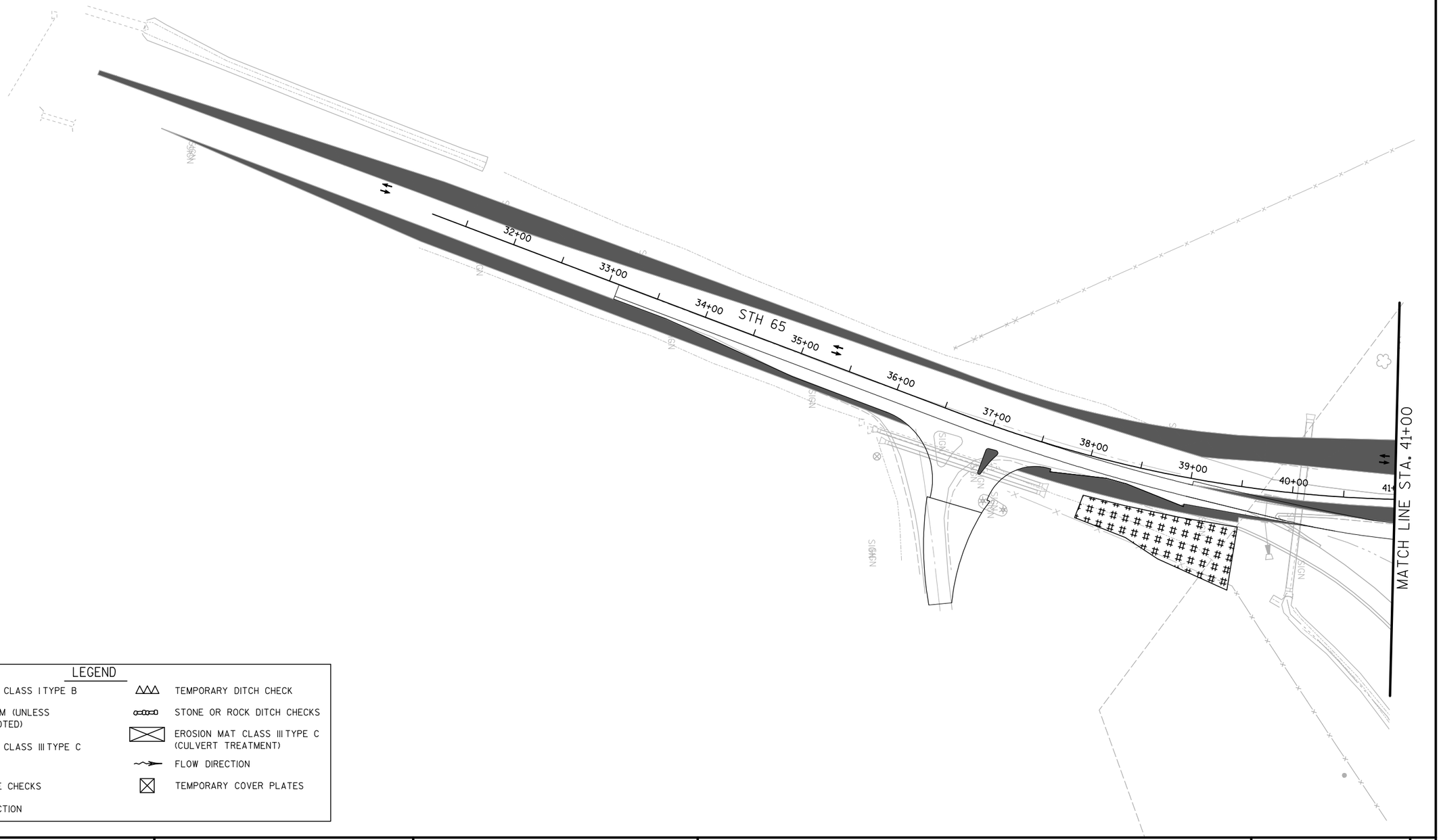
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 2	SHEET 81	E

2



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 2	SHEET 82	E

2



LEGEND

- ##### EROSION MAT CLASS I TYPE B
- RIPRAP MEDIUM (UNLESS OTHERWISE NOTED)
- EROSION MAT CLASS III TYPE C
- SILT FENCE
- CULVERT PIPE CHECKS
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- STONE OR ROCK DITCH CHECKS
- EROSION MAT CLASS III TYPE C (CULVERT TREATMENT)
- FLOW DIRECTION
- TEMPORARY COVER PLATES

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 2	SHEET 83	E

2

LEGEND

- EROSION MAT CLASS I TYPE B
- RIPRAP MEDIUM (UNLESS OTHERWISE NOTED)
- EROSION MAT CLASS III TYPE C
- SILT FENCE
- CULVERT PIPE CHECKS
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- STONE OR ROCK DITCH CHECKS
- EROSION MAT CLASS III TYPE C (CULVERT TREATMENT)
- FLOW DIRECTION
- TEMPORARY COVER PLATES

N

MATCH LINE STA. 58+50

59+00 60+00 61+00 62+00 63+00 64+00 65+00 66+00 67+00 68+00 69+00 70+00 71+00 72+00 73+00 74+00

STH 65

POST

SIGN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 2	SHEET 84	E

2

2

N

IH 94 WB

402+00 WB 403+00 WB 404+00 WB 405+00 WB 406+00 WB 407+00 WB 408+00 WB 409+00 WB 410+00 WB 411+00 WB 412+00 WB 413+00 WB 414+00 WB 415+00 WB 416+00 WB

I 94

TNL

402+00 EB 403+00 EB 404+00 EB 405+00 EB 406+00 EB 407+00 EB 408+00 EB 409+00 EB 410+00 EB 411+00 EB 412+00 EB 413+00 EB 414+00 EB 415+00 EB 416+00 EB

IH 94 EB

MATCH LINE STA. 416+50EB

LEGEND

- ##### EROSION MAT CLASS I TYPE B
- RIPRAP MEDIUM (UNLESS OTHERWISE NOTED)
- EROSION MAT CLASS III TYPE C
- SILT FENCE
- CULVERT PIPE CHECKS
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- STONE OR ROCK DITCH CHECKS
- EROSION MAT CLASS III TYPE C (CULVERT TREATMENT)
- FLOW DIRECTION
- TEMPORARY COVER PLATES

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 3	SHEET 85	E

2

N

STAGE 3
STA. 427+75 EB, 30'LT
1 - 9-MS INLET
1 - 101' x 30-INCH CPRC
1 - 30-INCH AEWCPRC REQ'D
RIM ELEV = 987.08
I.E. = 983.31
NORTH I.E. = 982.30

MATCH LINE STA. 416+50EB

MATCH LINE STA. 431+50EB

SIGN

IH 94 WB

417+00 WB 418+00 WB 419+00 WB 420+00 WB 421+00 WB 422+00 WB 423+00 WB 424+00 WB 425+00 WB 426+00 WB 427+00 WB 428+00 WB 429+00 WB 430+00 WB 431+00 WB

IH 94 EB

417+00 EB 418+00 EB 419+00 EB 420+00 EB 421+00 EB 422+00 EB 423+00 EB 424+00 EB 425+00 EB 426+00 EB 427+00 EB 428+00 EB 429+00 EB 430+00 EB 431+00 EB

I 94

INL

LEGEND

##### EROSION MAT CLASS I TYPE B	TEMPORARY DITCH CHECK
RIPRAP MEDIUM (UNLESS OTHERWISE NOTED)	STONE OR ROCK DITCH CHECKS
EROSION MAT CLASS III TYPE C	EROSION MAT CLASS III TYPE C (CULVERT TREATMENT)
SILT FENCE	FLOW DIRECTION
CULVERT PIPE CHECKS	TEMPORARY COVER PLATES
INLET PROTECTION	

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 3	SHEET 86	E

2

2

N

MATCH LINE STA. 431+50EB

MATCH LINE STA. 446+00EB

IH 94 WB

IH 94 EB

432+00 WB
433+00 WB
434+00 WB
435+00 WB
436+00 WB
437+00 WB
438+00 WB
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432+00 EB
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440+00 EB
441+00 EB
442+00 EB
443+00 EB
444+00 EB
445+00 EB

SIGN

LEGEND

- ##### EROSION MAT CLASS I TYPE B
- RIPRAP MEDIUM (UNLESS OTHERWISE NOTED)
- EROSION MAT CLASS III TYPE C
- SILT FENCE
- CULVERT PIPE CHECKS
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- STONE OR ROCK DITCH CHECKS
- EROSION MAT CLASS III TYPE C (CULVERT TREATMENT)
- FLOW DIRECTION
- TEMPORARY COVER PLATES

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 3	SHEET 87	E

2

2

N

STAGE 3
STA. 448+00 EB, 31' LT
1 - 8-MS INLET
1 - 99' x 24-INCH CPRC
1 - 24-INCH AEWCPRC REQ'D
RIM ELEV = 1001.08
I.E. = 997.85
NORTH I.E. = 996.86

STAGE 3
STA. 459+00 EB, 30' LT
1 - 9-MS INLET
1 - 101' x 30-INCH CPRC
1 - 30-INCH AEWCPRC REQ'D
RIM ELEV = 1013.71
I.E. = 1009.93
NORTH I.E. = 1008.92

MATCH LINE STA. 446+00EB

MATCH LINE STA. 461+00EB

IH 94 WB

IH 94 EB

POST

SIGN

SIGN

SIGN

SIGN

0 WB 447+00 WB 448+00 WB 449+00 WB 450+00 WB 451+00 WB 452+00 WB 453+00 WB 454+00 WB 455+00 WB 456+00 WB 457+00 WB 458+00 WB 459+00 WB 460+00 WB 461+0

0 EB 447+00 EB 448+00 EB 449+00 EB 450+00 EB 451+00 EB 452+00 EB 453+00 EB 454+00 EB 455+00 EB 456+00 EB 457+00 EB 458+00 EB 459+00 EB 460+00 EB 461+0

LEGEND

- ##### EROSION MAT CLASS I TYPE B
- RIPRAP MEDIUM (UNLESS OTHERWISE NOTED)
- EROSION MAT CLASS III TYPE C
- SILT FENCE
- CULVERT PIPE CHECKS
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- STONE OR ROCK DITCH CHECKS
- EROSION MAT CLASS III TYPE C (CULVERT TREATMENT)
- FLOW DIRECTION
- TEMPORARY COVER PLATES

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 3	SHEET 88	E

2

N

STAGE 3
STA. 467+00 EB, 28' LT
1 - 8-MS INLET
1 - 103' x 24-INCH CPRC
1 - 24-INCH AEWCPRC REQ'D
RIM ELEV = 1035.68
I.E. = 1032.48
NORTH I.E. = 1031.45

STAGE 3
STA. 474+85 EB, 27' LT
1 - 115' x 30-INCH CPRC
1 - 30-INCH AEWCPRC REQ'D
NORTH I.E. = 1040.74

HEAVY RIPRAP REQ'D

MATCH LINE STA. 461+00EB

MATCH LINE STA. 476+00EB

IH 94 WB

IH 94 EB

SIGN

POST

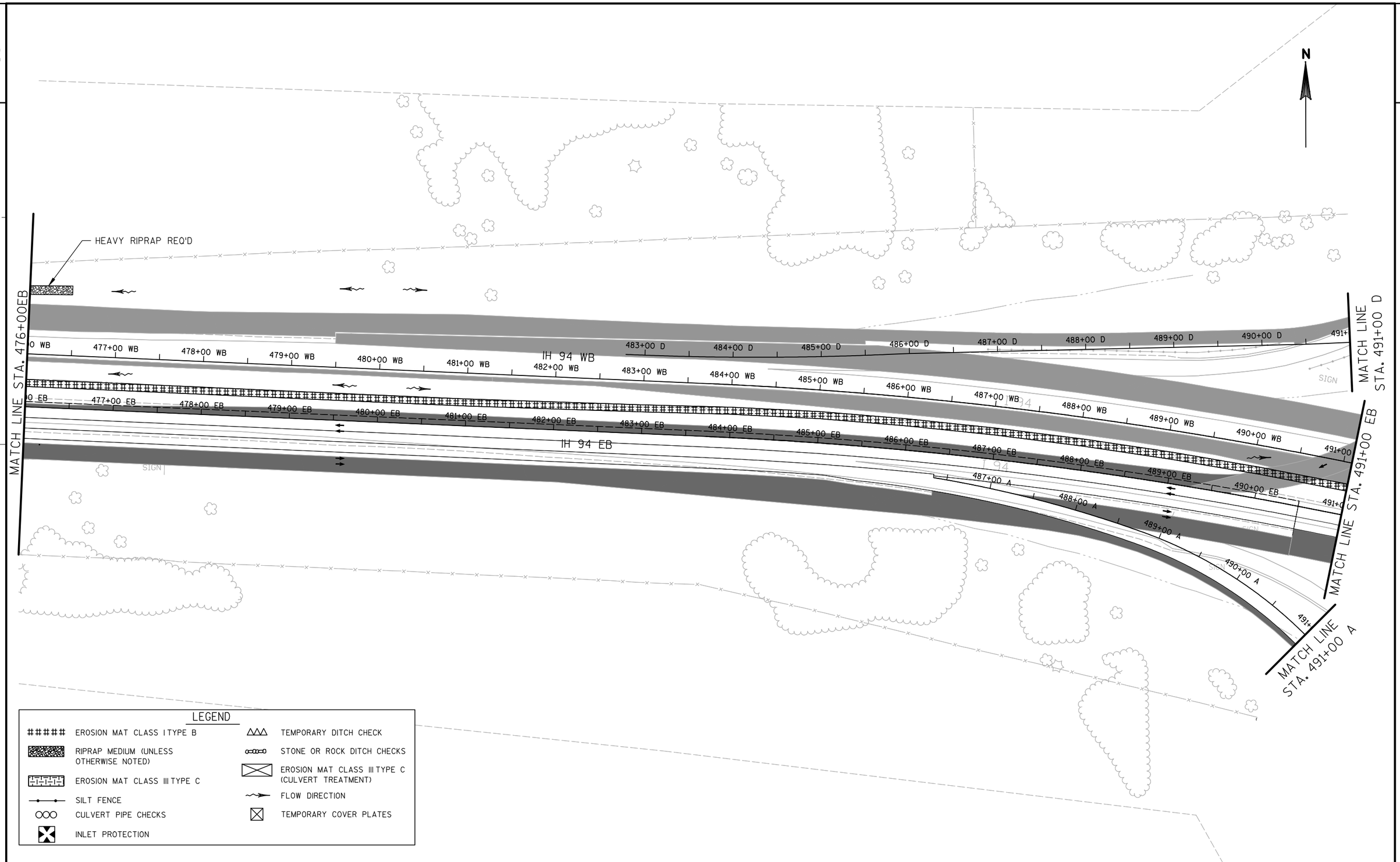
TREES

LEGEND

##### EROSION MAT CLASS I TYPE B	TEMPORARY DITCH CHECK
RIPRAP MEDIUM (UNLESS OTHERWISE NOTED)	STONE OR ROCK DITCH CHECKS
EROSION MAT CLASS III TYPE C	EROSION MAT CLASS III TYPE C (CULVERT TREATMENT)
SILT FENCE	FLOW DIRECTION
CULVERT PIPE CHECKS	TEMPORARY COVER PLATES
INLET PROTECTION	

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 3	SHEET 89	E

2



LEGEND

- ##### EROSION MAT CLASS I TYPE B
- RIPRAP MEDIUM (UNLESS OTHERWISE NOTED)
- EROSION MAT CLASS III TYPE C
- SILT FENCE
- CULVERT PIPE CHECKS
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- STONE OR ROCK DITCH CHECKS
- EROSION MAT CLASS III TYPE C (CULVERT TREATMENT)
- FLOW DIRECTION
- TEMPORARY COVER PLATES

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 3	SHEET 90	E

2

LEGEND

- EROSION MAT CLASS I TYPE B
- RIPRAP MEDIUM (UNLESS OTHERWISE NOTED)
- EROSION MAT CLASS III TYPE C
- SILT FENCE
- CULVERT PIPE CHECKS
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- STONE OR ROCK DITCH CHECKS
- EROSION MAT CLASS III TYPE C (CULVERT TREATMENT)
- FLOW DIRECTION
- TEMPORARY COVER PLATES

STAGE 3
STA. 497+00 DB, 92' LT
1 - 148' x 24-INCH CPRC
2 - 24-INCH AEWCPRC REQ'D
NORTH I.E. = 1013.97
SOUTH I.E. = 1025.19

STAGE 3
STA. 494+23 D, 74' RT
1 - 232' x 36-INCH CPRC
1 - 36-INCH AEWCPRC REQ'D
SOUTH I.E. = 1017.72

STA. 495+38 DB, 101' LT
1 - 36-INCH AEWCPRC REQ'D
NORTH I.E. = 1012.48

RIPRAP HEAVY REQ'D

STA. 492+50 D2
1 - 84' X 24-INCH CPT

MATCH LINE STA. 58+50

MATCH LINE STA. 491+00 D

MATCH LINE STA. 491+00 EB

MATCH LINE STA. 491+00 A

WB IH 94 ENTRANCE RAMP

WB IH 94 EXIT RAMP

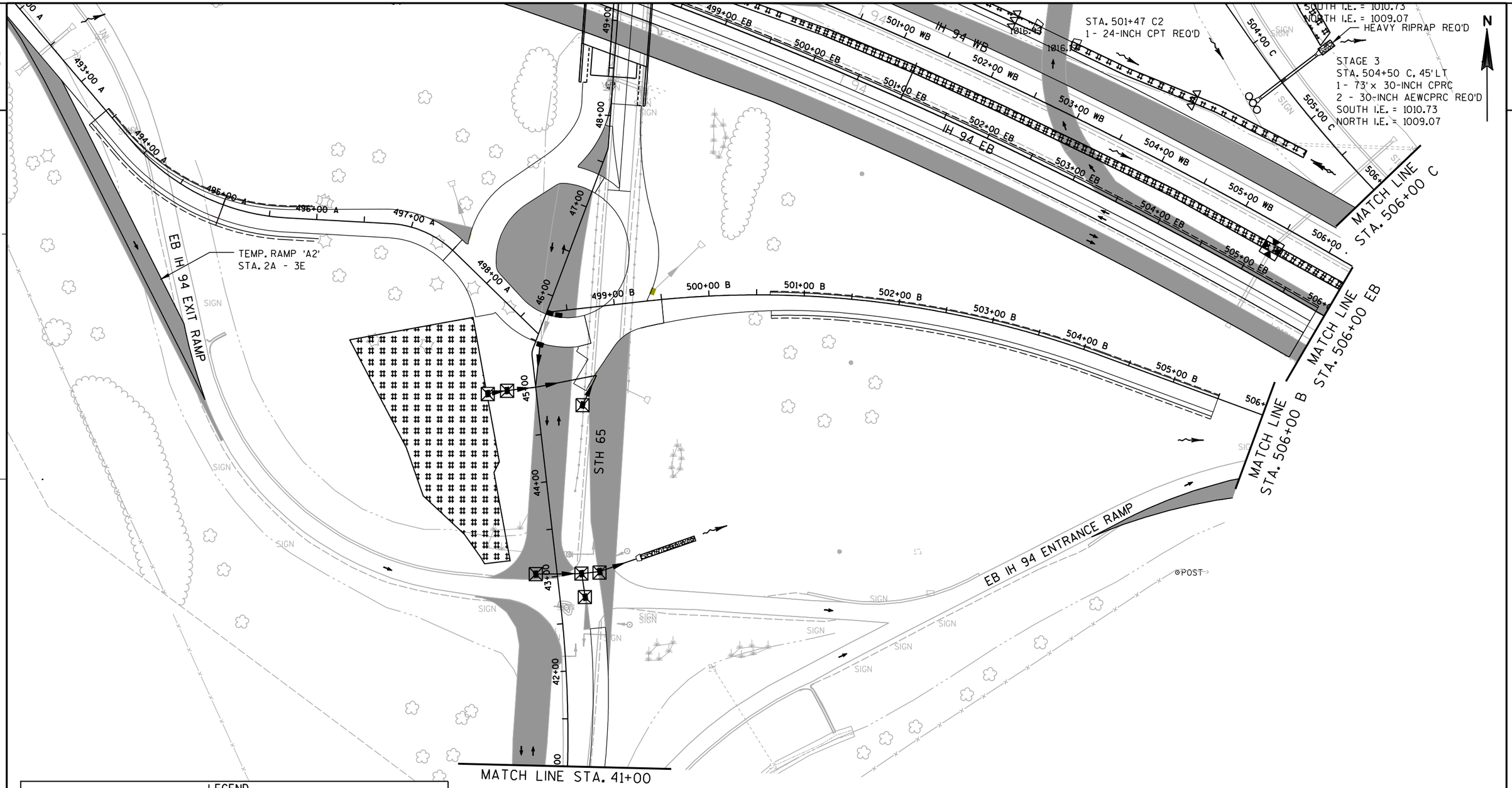
STH 65

IH 94 WB

IH 94 EB

N

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 3	SHEET 91	E



LEGEND

- EROSION MAT CLASS I TYPE B
- RIPRAP MEDIUM (UNLESS OTHERWISE NOTED)
- EROSION MAT CLASS III TYPE C
- SILT FENCE
- CULVERT PIPE CHECKS
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- STONE OR ROCK DITCH CHECKS
- EROSION MAT CLASS III TYPE C (CULVERT TREATMENT)
- FLOW DIRECTION
- TEMPORARY COVER PLATES

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 3	SHEET 92	E

2

STAGE 3
STA. 509+32 C, 55' LT
3 - 118' x 38-INCH X 60-INCH CPRCHE
6.0 CY CONCRETE MASONRY ENDWALLS REQ'D
NORTH I.E. = 1006.82

HEAVY RIPRAP REQ'D

STAGE 3
STA. 515+00 EB, 31' LT
1 - 8-MS INLET
1 - 118' x 24-INCH CPRC
1 - 24-INCH AEWCPRC REQ'D
RIM ELEV = 1016.35
I.E. = 1013.11
NORTH I.E. = 1012.17

MATCH LINE STA. 506+00 C

MATCH LINE EB STA. 506+00

MATCH LINE B STA. 506+00

EB IH 94 ENTRANCE RAMP

IH 94 WB

IH 94 EB

MATCH LINE STA. 520+00 EB

SIGN

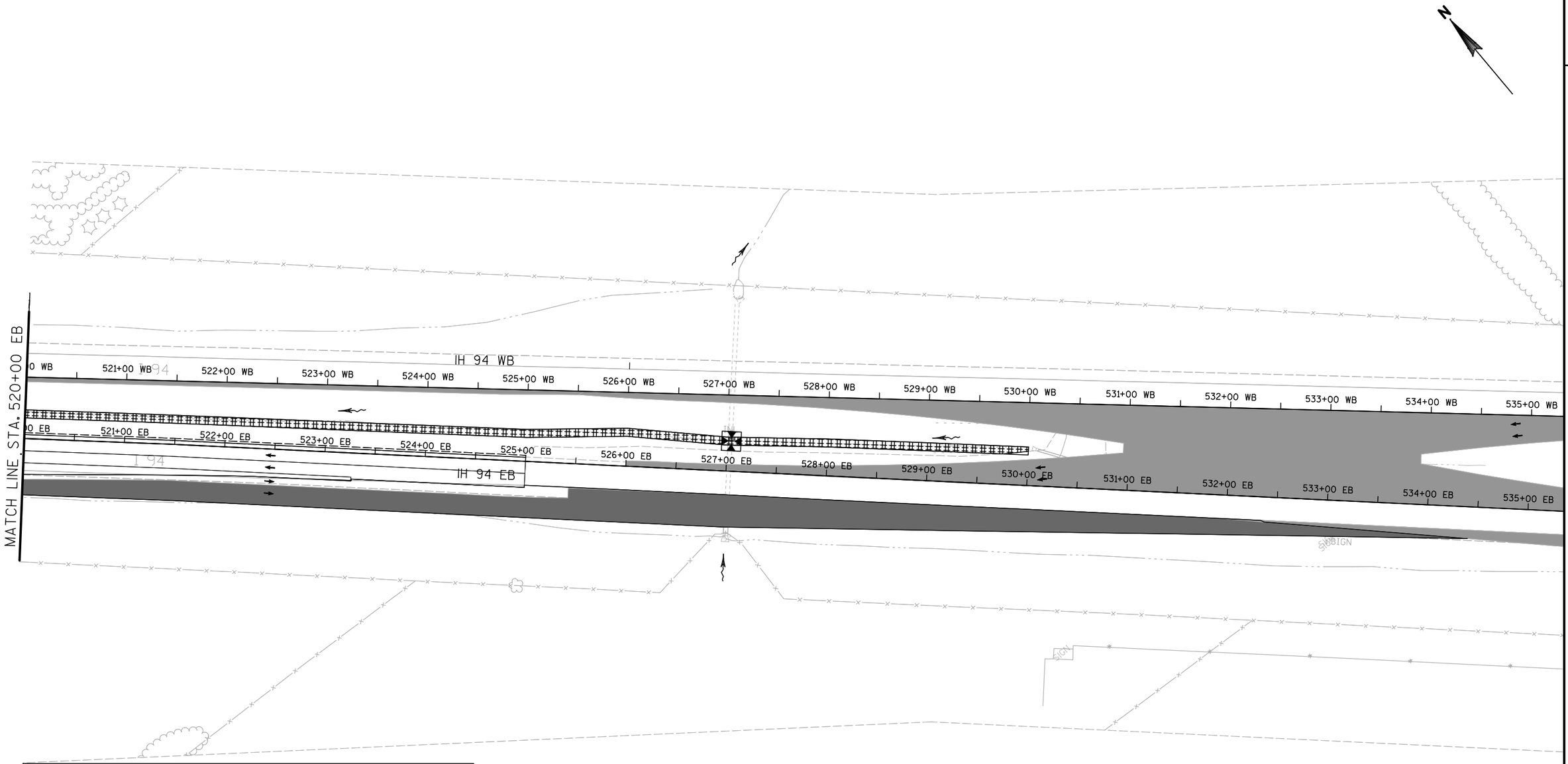
POST

LEGEND

- EROSION MAT CLASS I TYPE B
- RIPRAP MEDIUM (UNLESS OTHERWISE NOTED)
- EROSION MAT CLASS III TYPE C
- SILT FENCE
- CULVERT PIPE CHECKS
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- STONE OR ROCK DITCH CHECKS
- EROSION MAT CLASS III TYPE C (CULVERT TREATMENT)
- FLOW DIRECTION
- TEMPORARY COVER PLATES

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 3	SHEET 93	E

2



LEGEND

- ##### EROSION MAT CLASS I TYPE B
- RIPRAP MEDIUM (UNLESS OTHERWISE NOTED)
- EROSION MAT CLASS III TYPE C
- SILT FENCE
- CULVERT PIPE CHECKS
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- STONE OR ROCK DITCH CHECKS
- EROSION MAT CLASS III TYPE C (CULVERT TREATMENT)
- FLOW DIRECTION
- TEMPORARY COVER PLATES

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 3	SHEET 94	E

2

N

STH 65

32+00
33+00
34+00
35+00
36+00
37+00
38+00
39+00
40+00
41+00

MATCH LINE STA. 41+00

SIGN
POST

LEGEND

- ##### EROSION MAT CLASS I TYPE B
- RIPRAP MEDIUM (UNLESS OTHERWISE NOTED)
- EROSION MAT CLASS III TYPE C
- SILT FENCE
- CULVERT PIPE CHECKS
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- STONE OR ROCK DITCH CHECKS
- EROSION MAT CLASS III TYPE C (CULVERT TREATMENT)
- FLOW DIRECTION
- TEMPORARY COVER PLATES

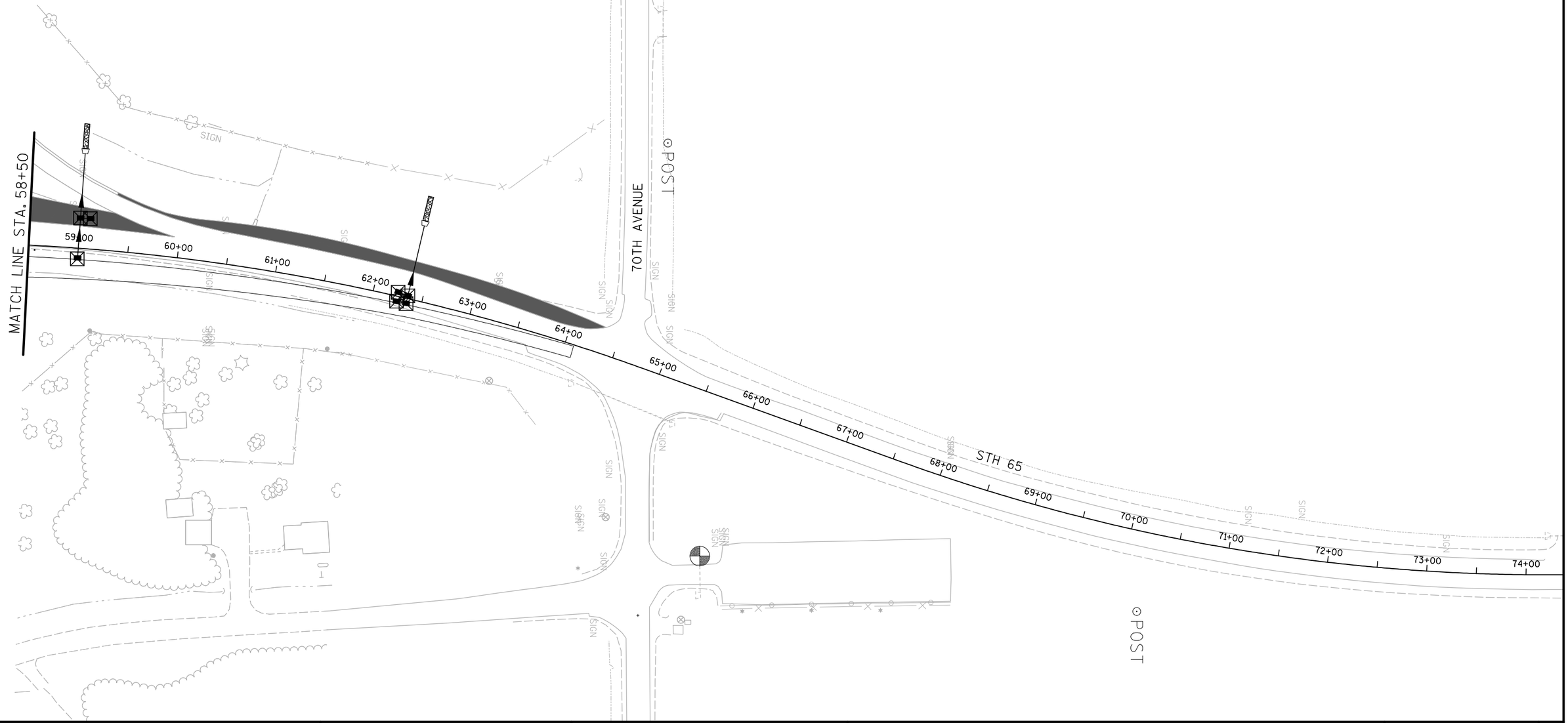
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 3	SHEET 95	E

2

LEGEND

- ##### EROSION MAT CLASS I TYPE B
- RIPRAP MEDIUM (UNLESS OTHERWISE NOTED)
- EROSION MAT CLASS III TYPE C
- SILT FENCE
- CULVERT PIPE CHECKS
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- STONE OR ROCK DITCH CHECKS
- EROSION MAT CLASS III TYPE C (CULVERT TREATMENT)
- FLOW DIRECTION
- TEMPORARY COVER PLATES

N

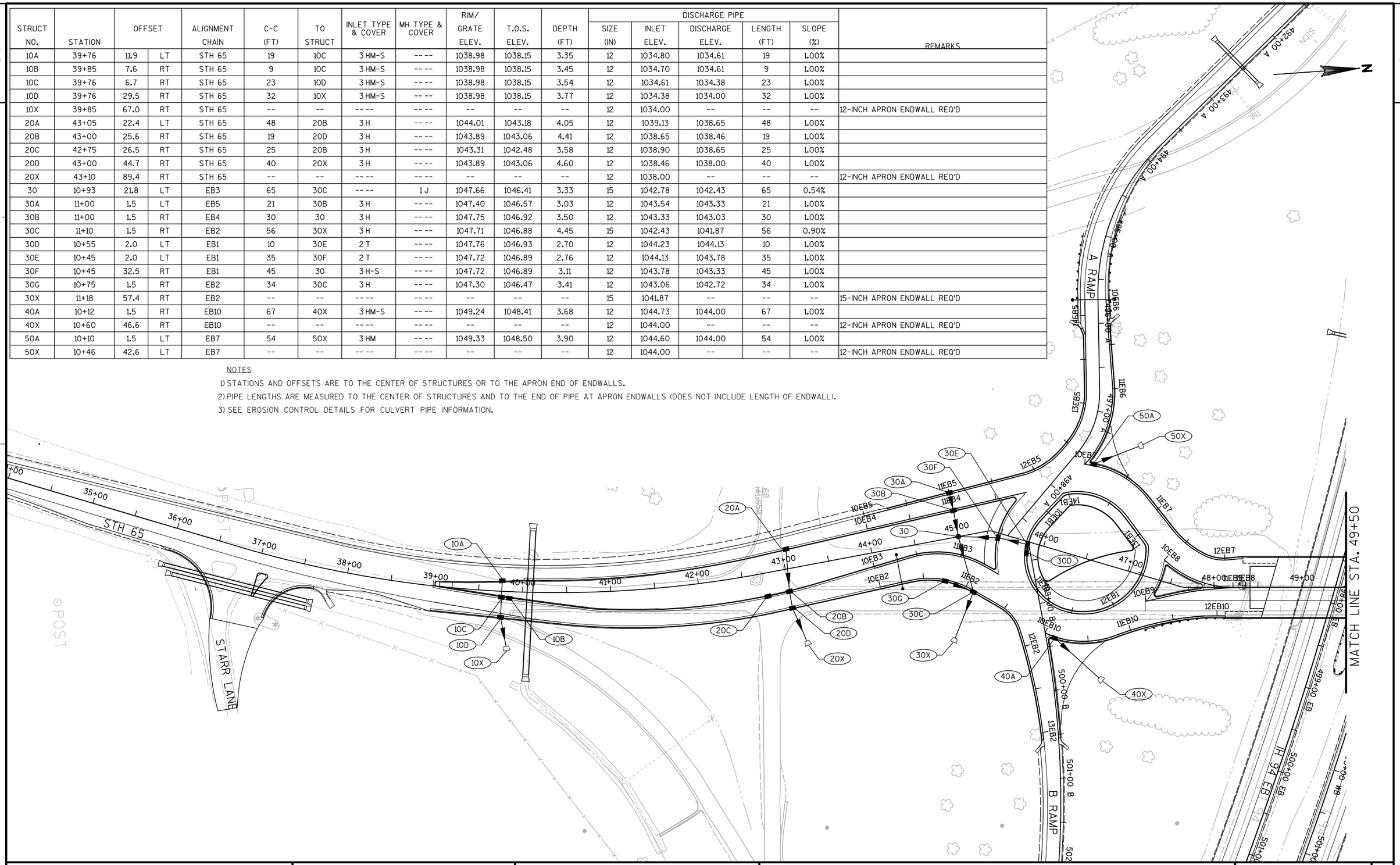


PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 3	SHEET 96	E

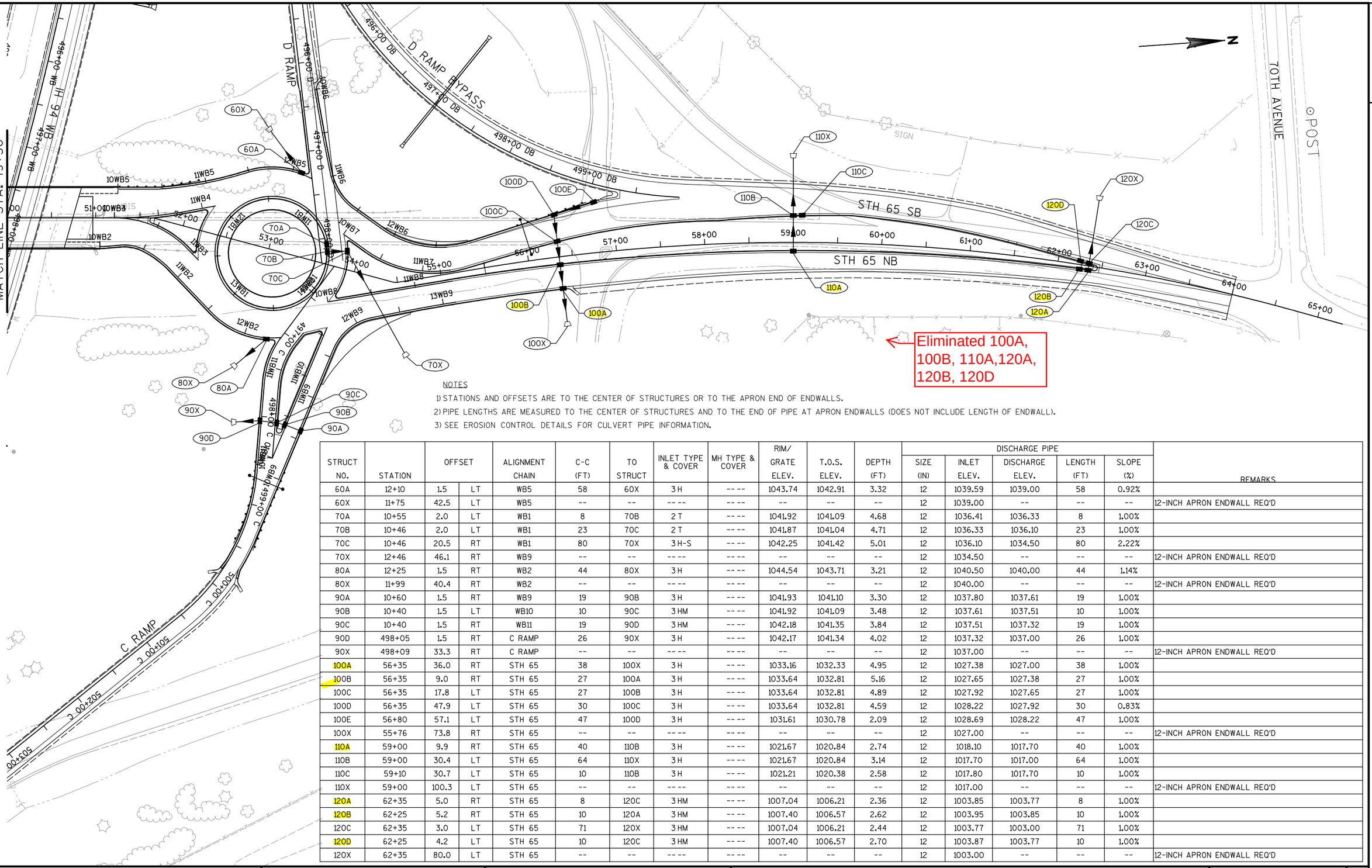
STRUCT NO.	STATION	OFFSET		ALIGNMENT CHAIN	C-C (FT)	TO STRUCT	INLET TYPE & COVER	MH TYPE & COVER	RIM/ GRATE ELEV.	T.O.S. ELEV.	DEPTH (FT)	DISCHARGE PIPE SIZE (IN)	DISCHARGE PIPE INLET ELEV.	DISCHARGE PIPE DISCHARGE ELEV.	DISCHARGE PIPE LENGTH (FT)	DISCHARGE PIPE SLOPE (%)	REMARKS
10A	39+76	11.9	LT	STH 65	19	10C	3 HM-S	---	1038.98	1038.15	3.35	12	1034.80	1034.61	19	1.00%	
10B	39+85	7.6	RT	STH 65	9	10C	3 HM-S	---	1038.98	1038.15	3.45	12	1034.70	1034.61	9	1.00%	
10C	39+76	6.7	RT	STH 65	23	10D	3 HM-S	---	1038.98	1038.15	3.54	12	1034.61	1034.38	23	1.00%	
10D	39+76	29.5	RT	STH 65	32	10X	3 HM-S	---	1038.98	1038.15	3.77	12	1034.38	1034.00	32	1.00%	
10X	39+85	67.0	RT	STH 65	--	--	---	---	--	--	--	12	1034.00	--	--	--	12-INCH APRON ENDWALL REQ'D
20A	43+05	22.4	LT	STH 65	48	20B	3 H	---	1044.01	1043.18	4.05	12	1039.13	1038.65	48	1.00%	
20B	43+00	25.6	RT	STH 65	19	20D	3 H	---	1043.89	1043.06	4.41	12	1038.65	1038.46	19	1.00%	
20C	42+75	26.5	RT	STH 65	25	20B	3 H	---	1043.31	1042.48	3.58	12	1038.90	1038.65	25	1.00%	
20D	43+00	44.7	RT	STH 65	40	20X	3 H	---	1043.89	1043.06	4.60	12	1038.46	1038.00	40	1.00%	
20X	43+10	89.4	RT	STH 65	--	--	---	---	--	--	--	12	1038.00	--	--	--	12-INCH APRON ENDWALL REQ'D
30	10+93	21.8	LT	EB3	65	30C	---	1 J	1047.66	1046.41	3.33	15	1042.78	1042.43	65	0.54%	
30A	11+00	1.5	LT	EB5	21	30B	3 H	---	1047.40	1046.57	3.03	12	1043.54	1043.33	21	1.00%	
30B	11+00	1.5	RT	EB4	30	30	3 H	---	1047.75	1046.92	3.50	12	1043.33	1043.03	30	1.00%	
30C	11+10	1.5	RT	EB2	56	30X	3 H	---	1047.71	1046.88	4.45	15	1042.43	1041.87	56	0.90%	
30D	10+55	2.0	LT	EB1	10	30E	2 T	---	1047.76	1046.93	2.70	12	1044.23	1044.13	10	1.00%	
30E	10+45	2.0	LT	EB1	35	30F	2 T	---	1047.72	1046.89	2.76	12	1044.13	1043.78	35	1.00%	
30F	10+45	32.5	RT	EB1	45	30	3 H-S	---	1047.72	1046.89	3.11	12	1043.78	1043.33	45	1.00%	
30G	10+75	1.5	RT	EB2	34	30C	3 H	---	1047.30	1046.47	3.41	12	1043.06	1042.72	34	1.00%	
30X	11+18	57.4	RT	EB2	--	--	---	---	--	--	--	15	1041.87	--	--	--	15-INCH APRON ENDWALL REQ'D
40A	10+12	1.5	RT	EB10	67	40X	3 HM-S	---	1049.24	1048.41	3.68	12	1044.73	1044.00	67	1.00%	
40X	10+60	46.6	RT	EB10	--	--	---	---	--	--	--	12	1044.00	--	--	--	12-INCH APRON ENDWALL REQ'D
50A	10+10	1.5	LT	EB7	54	50X	3 HM	---	1049.33	1048.50	3.90	12	1044.60	1044.00	54	1.00%	
50X	10+46	42.6	LT	EB7	--	--	---	---	--	--	--	12	1044.00	--	--	--	12-INCH APRON ENDWALL REQ'D

NOTES

1) STATIONS AND OFFSETS ARE TO THE CENTER OF STRUCTURES OR TO THE APRON END OF ENDWALLS.
2) PIPE LENGTHS ARE MEASURED TO THE CENTER OF STRUCTURES AND TO THE END OF PIPE AT APRON ENDWALLS (DOES NOT INCLUDE LENGTH OF ENDWALL).
3) SEE EROSION CONTROL DETAILS FOR CULVERT PIPE INFORMATION.



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	STORM SEWER - STH 65	SHEET 97	E



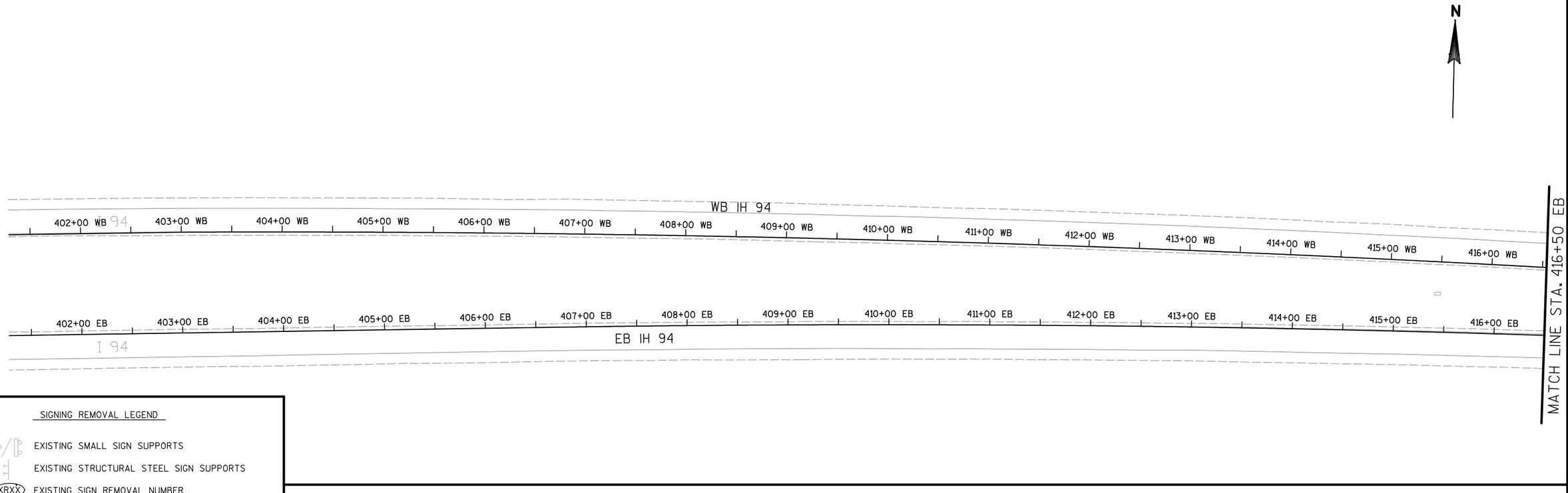
NOTES

1) STATIONS AND OFFSETS ARE TO THE CENTER OF STRUCTURES OR TO THE APRON END OF ENDWALLS.
2) PIPE LENGTHS ARE MEASURED TO THE CENTER OF STRUCTURES AND TO THE END OF PIPE AT APRON ENDWALLS (DOES NOT INCLUDE LENGTH OF ENDWALL).
3) SEE EROSION CONTROL DETAILS FOR CULVERT PIPE INFORMATION.

STRUCT NO.	STATION	OFFSET		ALIGNMENT CHAIN	C-C (FT)	TO STRUCT	INLET TYPE & COVER	MH TYPE & COVER	RIM/ GRATE ELEV.	T.O.S. ELEV.	DEPTH (FT)	DISCHARGE PIPE SIZE (IN)	DISCHARGE PIPE INLET ELEV.	DISCHARGE PIPE DISCHARGE ELEV.	DISCHARGE PIPE LENGTH (FT)	DISCHARGE PIPE SLOPE (%)	REMARKS
60A	12+10	1.5	LT	WB5	58	60X	3 H	----	1043.74	1042.91	3.32	12	1039.59	1039.00	58	0.92%	
60X	11+75	42.5	LT	WB5	--	--	----	----	--	--	--	12	1039.00	--	--	--	12-INCH APRON ENDWALL REQ'D
70A	10+55	2.0	LT	WB1	8	70B	2 T	----	1041.92	1041.09	4.68	12	1036.41	1036.33	8	1.00%	
70B	10+46	2.0	LT	WB1	23	70C	2 T	----	1041.87	1041.04	4.71	12	1036.33	1036.10	23	1.00%	
70C	10+46	20.5	RT	WB1	80	70X	3 H-S	----	1042.25	1041.42	5.01	12	1036.10	1034.50	80	2.22%	
70X	12+46	46.1	RT	WB9	--	--	----	----	--	--	--	12	1034.50	--	--	--	12-INCH APRON ENDWALL REQ'D
80A	12+25	1.5	RT	WB2	44	80X	3 H	----	1044.54	1043.71	3.21	12	1040.50	1040.00	44	1.14%	
80X	11+99	40.4	RT	WB2	--	--	----	----	--	--	--	12	1040.00	--	--	--	12-INCH APRON ENDWALL REQ'D
90A	10+60	1.5	RT	WB9	19	90B	3 H	----	1041.93	1041.10	3.30	12	1037.80	1037.61	19	1.00%	
90B	10+40	1.5	LT	WB10	10	90C	3 HM	----	1041.92	1041.09	3.48	12	1037.61	1037.51	10	1.00%	
90C	10+40	1.5	RT	WB11	19	90D	3 HM	----	1042.18	1041.35	3.84	12	1037.51	1037.32	19	1.00%	
90D	498+05	1.5	RT	C RAMP	26	90X	3 H	----	1042.17	1041.34	4.02	12	1037.32	1037.00	26	1.00%	
90X	498+09	33.3	RT	C RAMP	--	--	----	----	--	--	--	12	1037.00	--	--	--	12-INCH APRON ENDWALL REQ'D
100A	56+35	36.0	RT	STH 65	38	100X	3 H	----	1033.16	1032.33	4.95	12	1027.38	1027.00	38	1.00%	
100B	56+35	9.0	RT	STH 65	27	100A	3 H	----	1033.64	1032.81	5.16	12	1027.65	1027.38	27	1.00%	
100C	56+35	17.8	LT	STH 65	27	100B	3 H	----	1033.64	1032.81	4.89	12	1027.92	1027.65	27	1.00%	
100D	56+35	47.9	LT	STH 65	30	100C	3 H	----	1033.64	1032.81	4.59	12	1028.22	1027.92	30	0.83%	
100E	56+80	57.1	LT	STH 65	47	100D	3 H	----	1031.61	1030.78	2.09	12	1028.69	1028.22	47	1.00%	
100X	55+76	73.8	RT	STH 65	--	--	----	----	--	--	--	12	1027.00	--	--	--	12-INCH APRON ENDWALL REQ'D
110A	59+00	9.9	RT	STH 65	40	110B	3 H	----	1021.67	1020.84	2.74	12	1018.10	1017.70	40	1.00%	
110B	59+00	30.4	LT	STH 65	64	110X	3 H	----	1021.67	1020.84	3.14	12	1017.70	1017.00	64	1.00%	
110C	59+10	30.7	LT	STH 65	10	110B	3 H	----	1021.21	1020.38	2.58	12	1017.80	1017.70	10	1.00%	
110X	59+00	100.3	LT	STH 65	--	--	----	----	--	--	--	12	1017.00	--	--	--	12-INCH APRON ENDWALL REQ'D
120A	62+35	5.0	RT	STH 65	8	120C	3 HM	----	1007.04	1006.21	2.36	12	1003.85	1003.77	8	1.00%	
120B	62+25	5.2	RT	STH 65	10	120A	3 HM	----	1007.40	1006.57	2.62	12	1003.95	1003.85	10	1.00%	
120C	62+35	3.0	LT	STH 65	71	120X	3 HM	----	1007.04	1006.21	2.44	12	1003.77	1003.00	71	1.00%	
120D	62+25	4.2	LT	STH 65	10	120C	3 HM	----	1007.40	1006.57	2.70	12	1003.87	1003.77	10	1.00%	
120X	62+35	80.0	LT	STH 65	--	--	----	----	--	--	--	12	1003.00	--	--	--	12-INCH APRON ENDWALL REQ'D

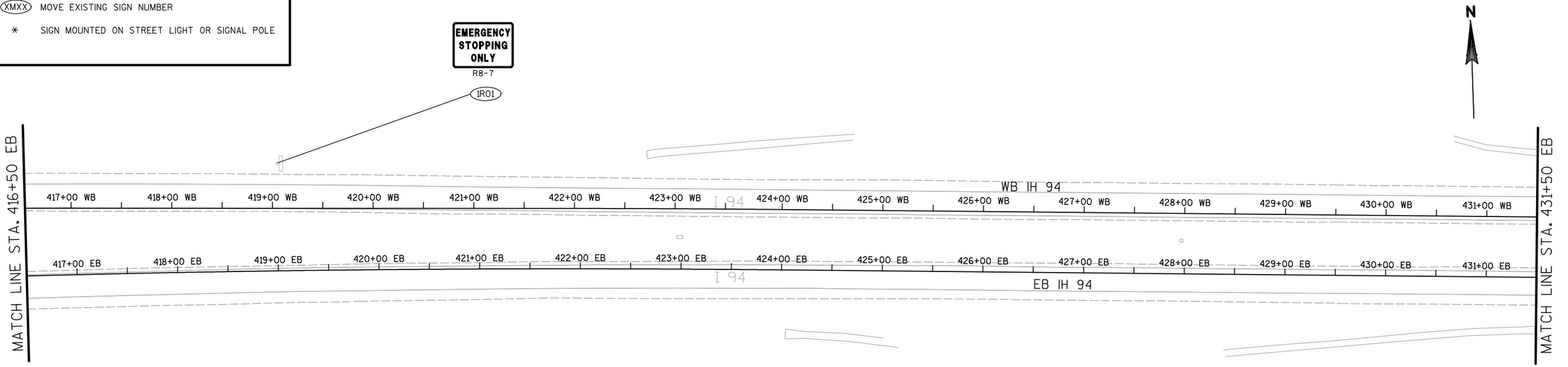
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	STORM SEWER - STH 65	SHEET 98	E

2



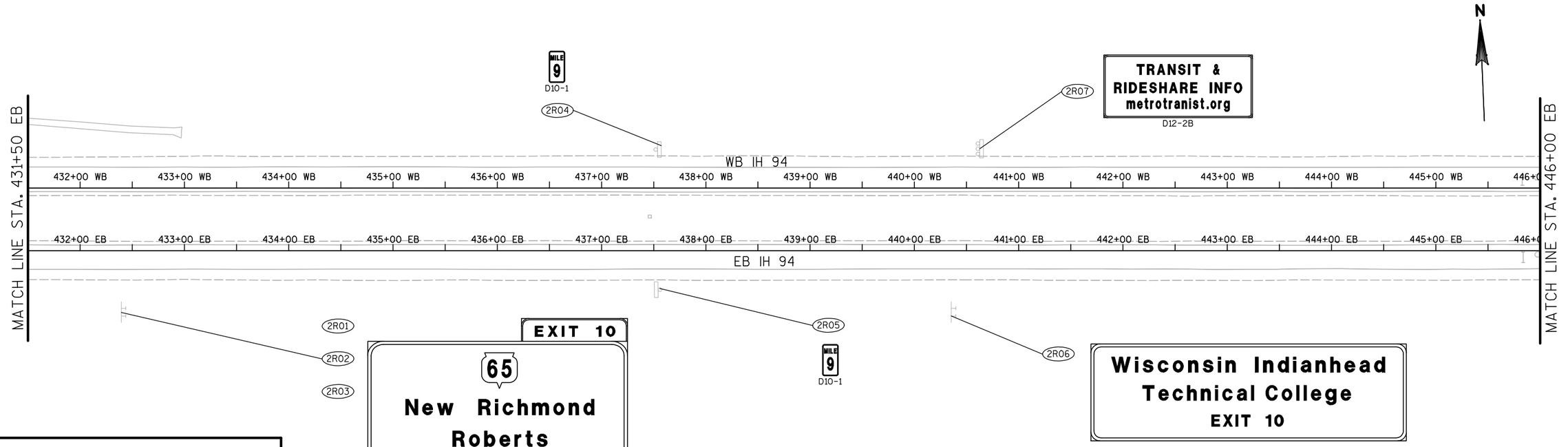
SIGNING REMOVAL LEGEND

- EXISTING SMALL SIGN SUPPORTS
- EXISTING STRUCTURAL STEEL SIGN SUPPORTS
- (XRXX) EXISTING SIGN REMOVAL NUMBER
- (XMXX) MOVE EXISTING SIGN NUMBER
- * SIGN MOUNTED ON STREET LIGHT OR SIGNAL POLE



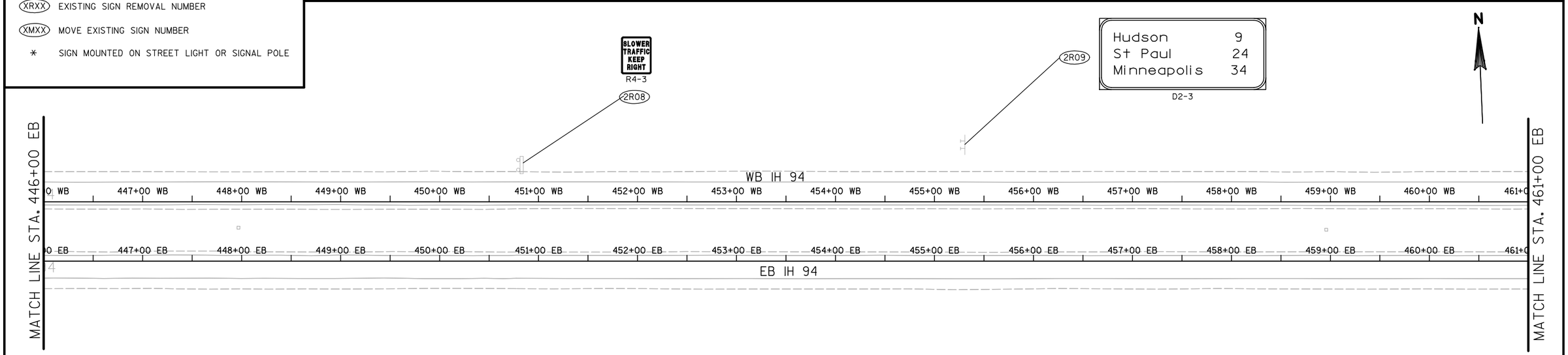
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	SIGN REMOVALS	SHEET 99	E

2



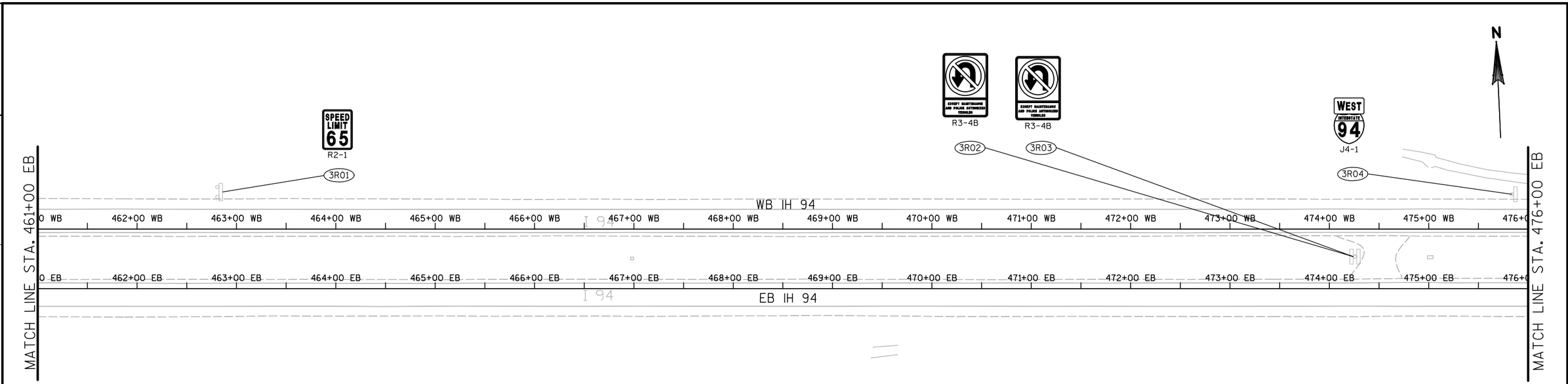
SIGNING REMOVAL LEGEND

- EXISTING SMALL SIGN SUPPORTS
- EXISTING STRUCTURAL STEEL SIGN SUPPORTS
- (XRXX) EXISTING SIGN REMOVAL NUMBER
- (XMXX) MOVE EXISTING SIGN NUMBER
- * SIGN MOUNTED ON STREET LIGHT OR SIGNAL POLE



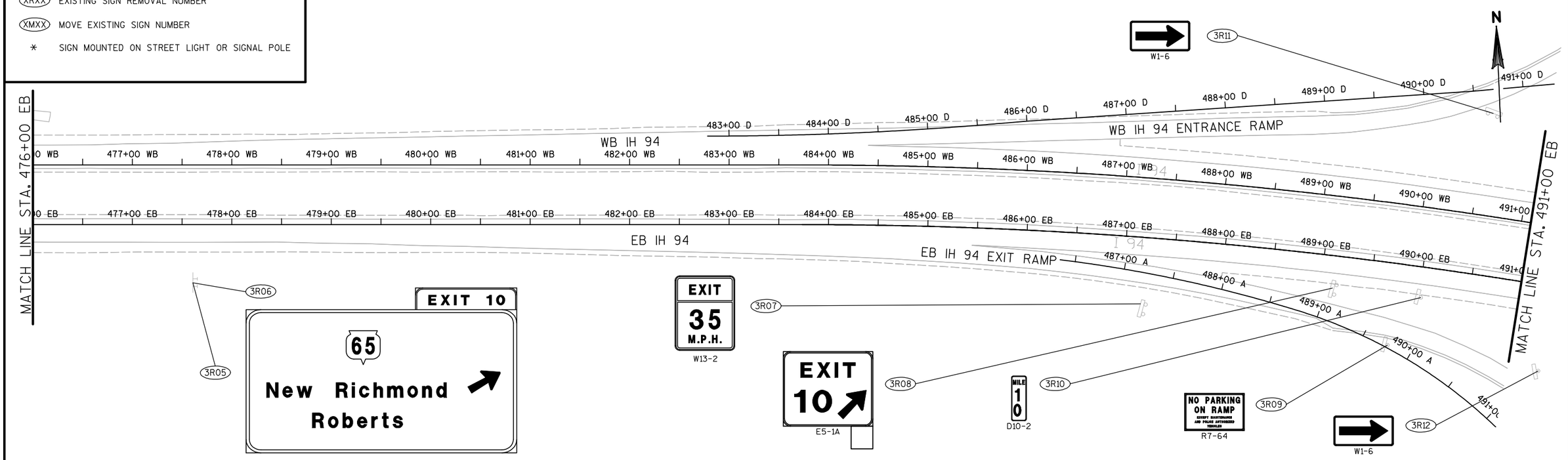
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	SIGN REMOVALS	SHEET 100	E

2



SIGNING REMOVAL LEGEND

- EXISTING SMALL SIGN SUPPORTS
- EXISTING STRUCTURAL STEEL SIGN SUPPORTS
- (XRXX) EXISTING SIGN REMOVAL NUMBER
- (XMXX) MOVE EXISTING SIGN NUMBER
- * SIGN MOUNTED ON STREET LIGHT OR SIGNAL POLE

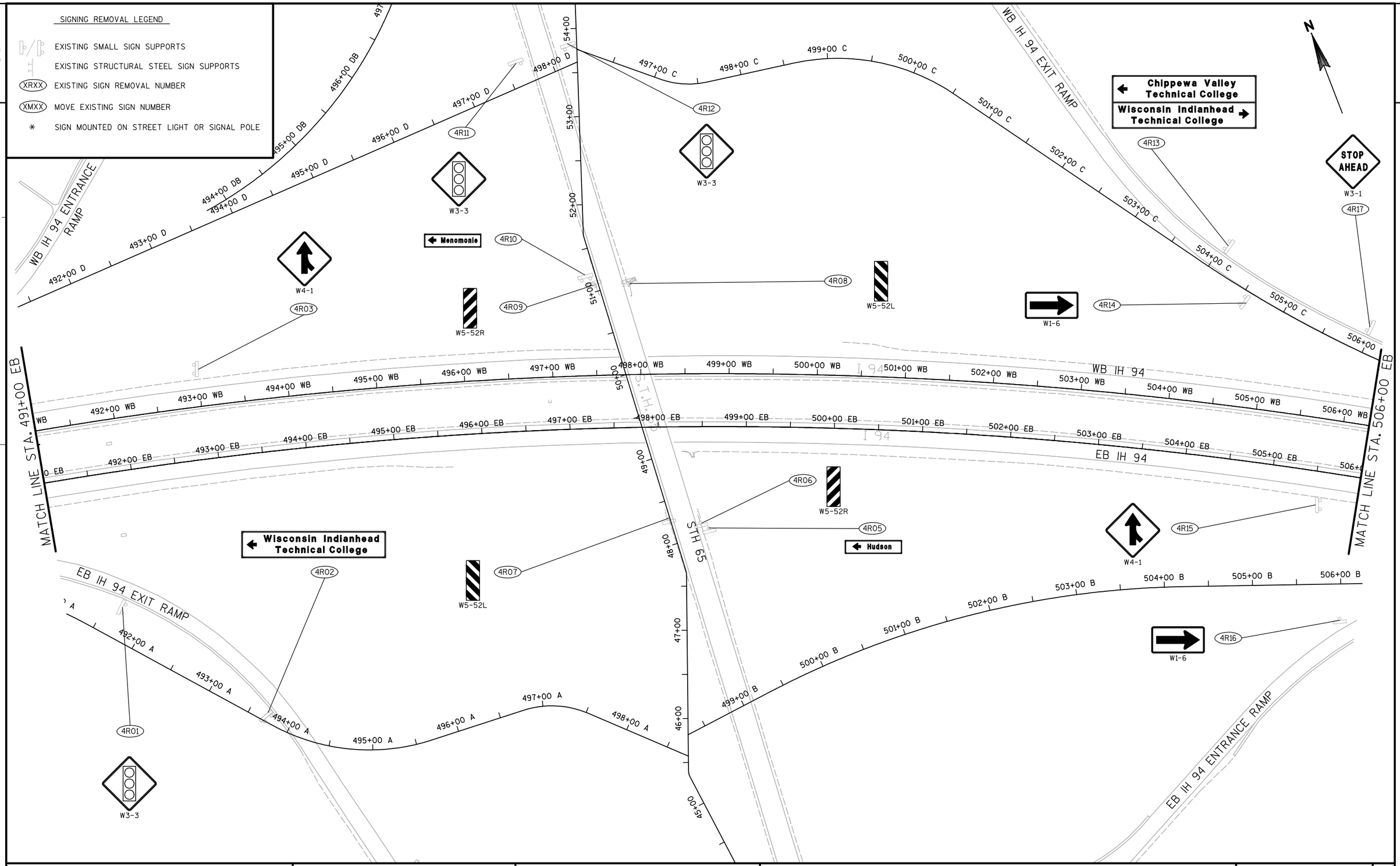


PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	SIGN REMOVALS	SHEET 101	E

2

SIGNING REMOVAL LEGEND

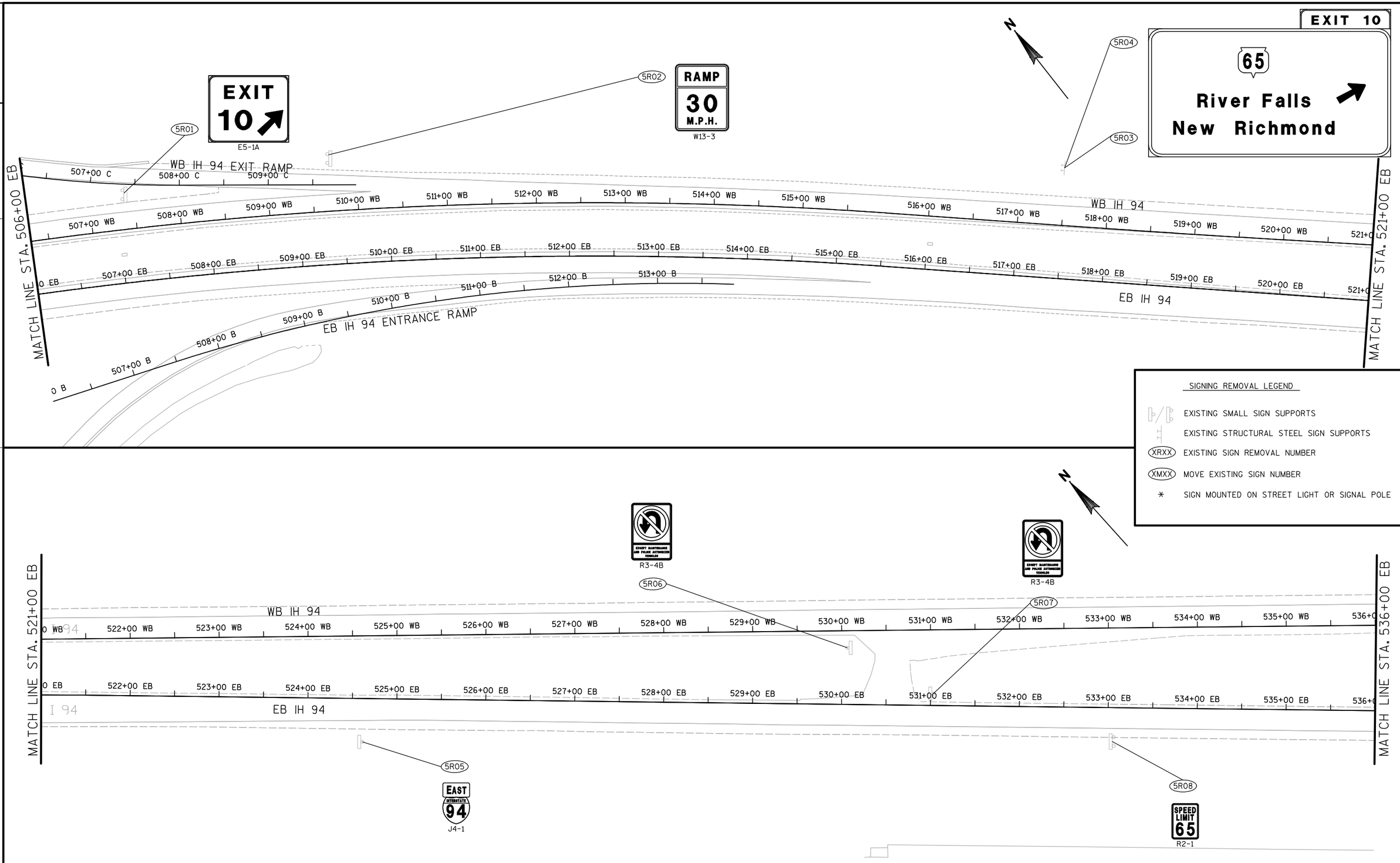
- EXISTING SMALL SIGN SUPPORTS
- EXISTING STRUCTURAL STEEL SIGN SUPPORTS
- (XRXX) EXISTING SIGN REMOVAL NUMBER
- (XMXX) MOVE EXISTING SIGN NUMBER
- * SIGN MOUNTED ON STREET LIGHT OR SIGNAL POLE



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	SIGN REMOVALS	SHEET 102 E

2

EXIT 10



SIGNING REMOVAL LEGEND

- EXISTING SMALL SIGN SUPPORTS
- EXISTING STRUCTURAL STEEL SIGN SUPPORTS
- (XRXX) EXISTING SIGN REMOVAL NUMBER
- (XMXX) MOVE EXISTING SIGN NUMBER
- * SIGN MOUNTED ON STREET LIGHT OR SIGNAL POLE

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	SIGN REMOVALS	SHEET 103	E

2

2

UW River Falls
EXIT 10
192" X 60"

6-01

WB IH 94

544+00 EB | 545+00 EB | 546+00 EB | 547+00 EB | 548+00 EB

EB IH 94

N

SIGNING REMOVAL LEGEND

- EXISTING SMALL SIGN SUPPORTS
- EXISTING STRUCTURAL STEEL SIGN SUPPORTS
- (XRXX) EXISTING SIGN REMOVAL NUMBER
- (XMXX) MOVE EXISTING SIGN NUMBER
- * SIGN MOUNTED ON STREET LIGHT OR SIGNAL POLE

N

WB IH 94

I 94

6-02

6-03

6-04

108" X 30"
EXIT 10

216" X 162"
65
Roberts
River Falls
1 MILE

NEXT EXIT 6 MILES
156" X 24"

130th ST.

130TH STREET

EB IH 94

I 94

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	SIGN REMOVALS	SHEET 104	E

SIGNING REMOVAL LEGEND

- EXISTING SMALL SIGN SUPPORTS
- EXISTING STRUCTURAL STEEL SIGN SUPPORTS
- (XRXX) EXISTING SIGN REMOVAL NUMBER
- (XMXX) MOVE EXISTING SIGN NUMBER
- * SIGN MOUNTED ON STREET LIGHT OR SIGNAL POLE

N

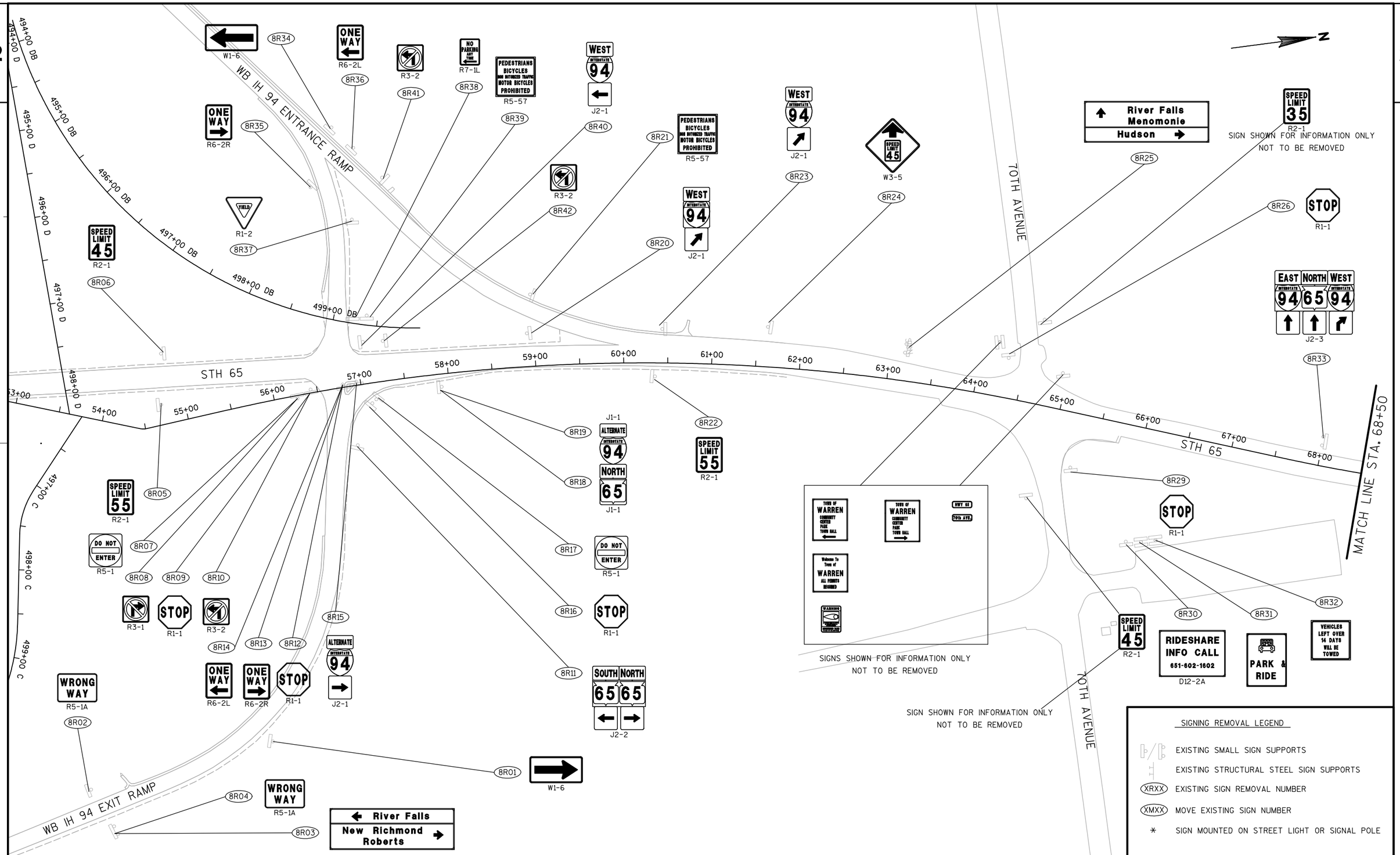
SPEED LIMIT 55 R2-1 — 7R02
NO PASSING ZONE W14-3 — 7R03
SOUTH 65 J1-1 — ALTERNATE INTERSTATE 94 J1-1 — 7R08
7R09
River Falls 8 — 7R10
J1-1 ALTERNATE INTERSTATE 94 — 7R24
SOUTH 65 NORTH 65 J2-2 — 7R23
7R25
New Richmond Roberts / River Falls — WRONG WAY R5-1A — 7R32
7R31
EB IH 94 EXIT RAMP
7R33
W1-6
7R30
NO PARKING ON RAMP EXCEPT EMERGENCY AND PUBLIC AUTHORIZED VEHICLES R7-64 — 7R34
WRONG WAY R5-1A
DO NOT ENTER R5-1
STOP R1-1F — 7R20 *
ONE WAY R6-2L — 7R21 *
ONE WAY R6-2R — 7R22 *
R3-2 — 7R26
R3-1 — 7R27
STOP R1-1 — 7R17
DO NOT ENTER R5-1 — 7R16
STH 65
7R28
7R29 *
STOP R1-1F
EAST INTERSTATE 94 J2-1
7R14 *
STOP R1-1F
PEDESTRIANS BICYCLES NON MOTORIZED TRAFFIC MOTOR BICYCLES PROHIBITED R5-57 — 7R19
7R18
NO PARKING ANY TIME R7-1L
R3-2 — 7R15
7R35
YIELD R1-2
7R36
R3-2
7R37
ONE WAY R6-2R
7R38
ONE WAY R6-2L
7R39
W1-6
EB IH 94 ENTRANCE RAMP

32+00 33+00 34+00 35+00 36+00 37+00 38+00 39+00 40+00 41+00 42+00 43+00 44+00 45+00 46+00 47+
STH 65
495+00 A 496+00 A 497+00 A 498+00 A 499+00 B 500+00 B 501+00 B 502+00 B 503+00 B 504+

7R40
SPEED LIMIT 45 W3-5
7R01
SPEED LIMIT 45 R2-1
7R41
WEST 94 NORTH 65 EAST 94 J2-3
7R04
W3-3
7R05
Hudson New Richmond / Menomonie
7R06
STOP R1-1
STAR LANE
6M01 6TH ST STAR LN
7R07
STOP R1-1
7R11
EAST INTERSTATE 94 J2-1
7R12
EAST INTERSTATE 94 J2-1
7R13
PEDESTRIANS BICYCLES NON MOTORIZED TRAFFIC MOTOR BICYCLES PROHIBITED R5-57

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	SIGN REMOVALS	SHEET 105	E

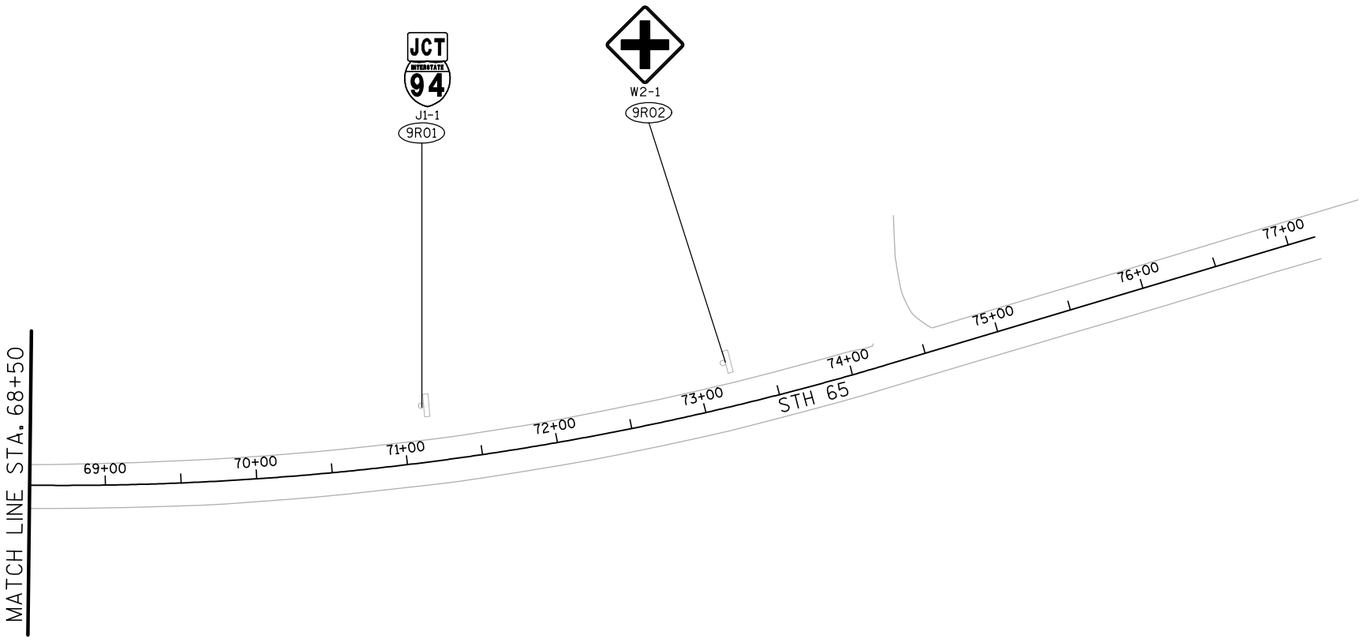
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	SIGN REMOVALS	SHEET	E

FILE NAME : s:\mad\1000--1099\1089\199\micros\plan\023208_ps.dgn PLOT DATE : 4/28/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

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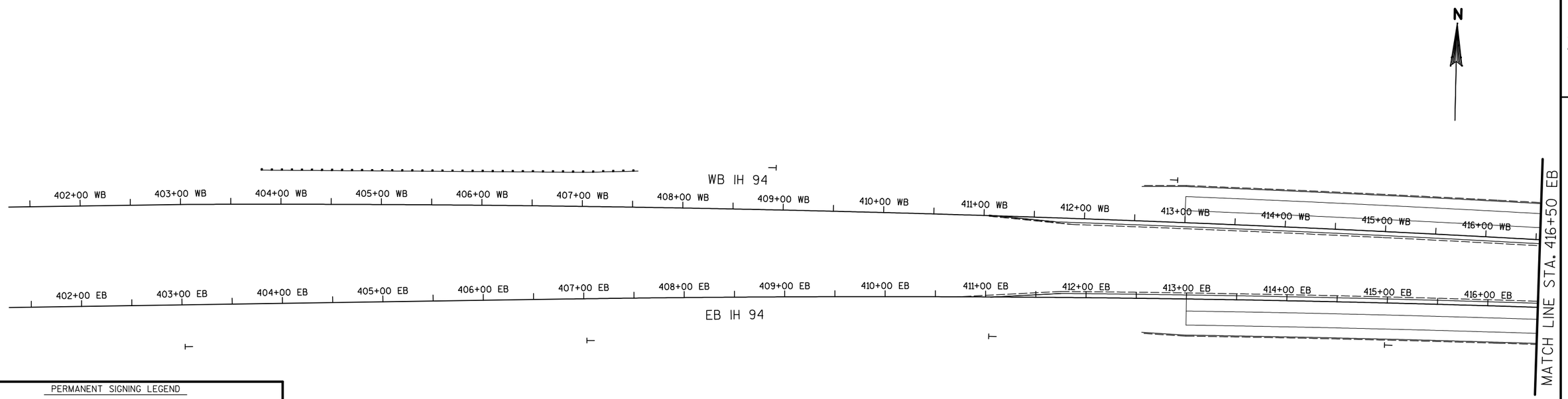


SIGNING REMOVAL LEGEND

- EXISTING SMALL SIGN SUPPORTS
- EXISTING STRUCTURAL STEEL SIGN SUPPORTS
- (XRXX) EXISTING SIGN REMOVAL NUMBER
- (XMXX) MOVE EXISTING SIGN NUMBER
- * SIGN MOUNTED ON STREET LIGHT OR SIGNAL POLE

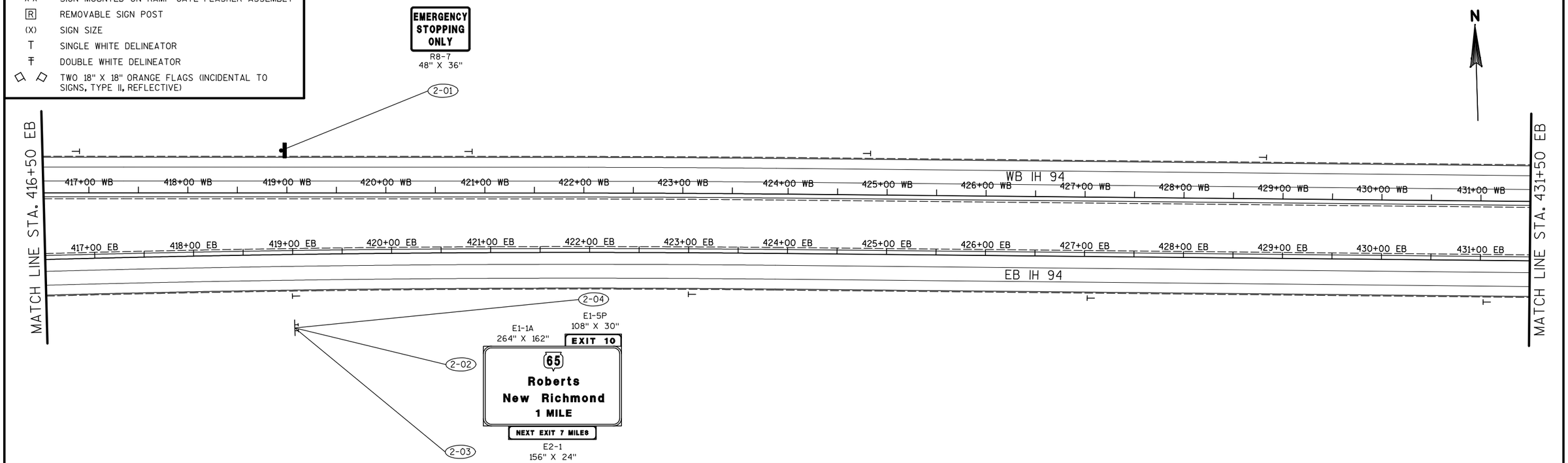
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2

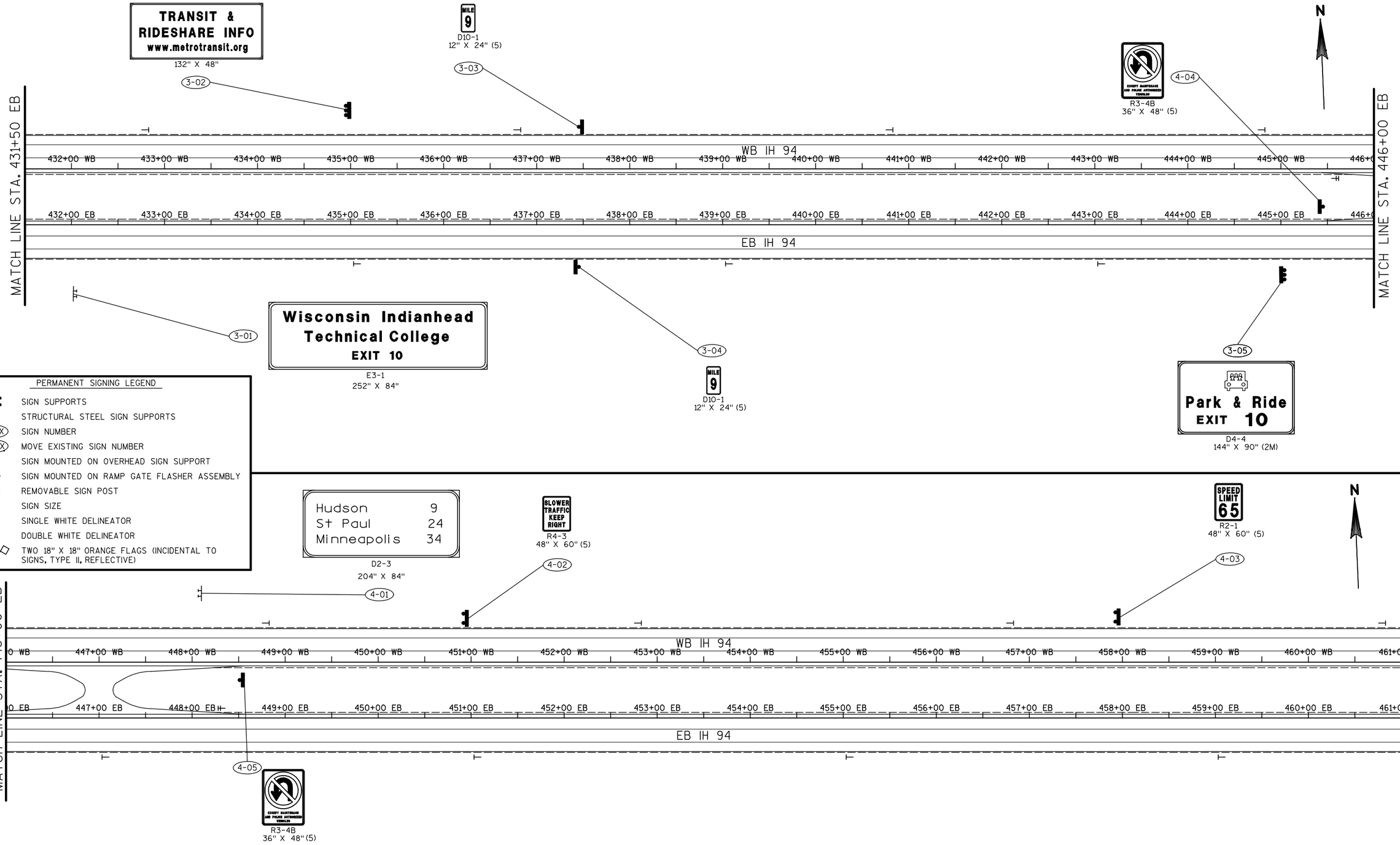


PERMANENT SIGNING LEGEND

- SIGN SUPPORTS
- STRUCTURAL STEEL SIGN SUPPORTS
- (X-XX) SIGN NUMBER
- (XMXX) MOVE EXISTING SIGN NUMBER
- * SIGN MOUNTED ON OVERHEAD SIGN SUPPORT
- ** SIGN MOUNTED ON RAMP GATE FLASHER ASSEMBLY
- [R] REMOVABLE SIGN POST
- (X) SIGN SIZE
- T SINGLE WHITE DELINEATOR
- ⫪ DOUBLE WHITE DELINEATOR
- ◇ ◇ TWO 18" X 18" ORANGE FLAGS (INCIDENTAL TO SIGNS, TYPE II, REFLECTIVE)



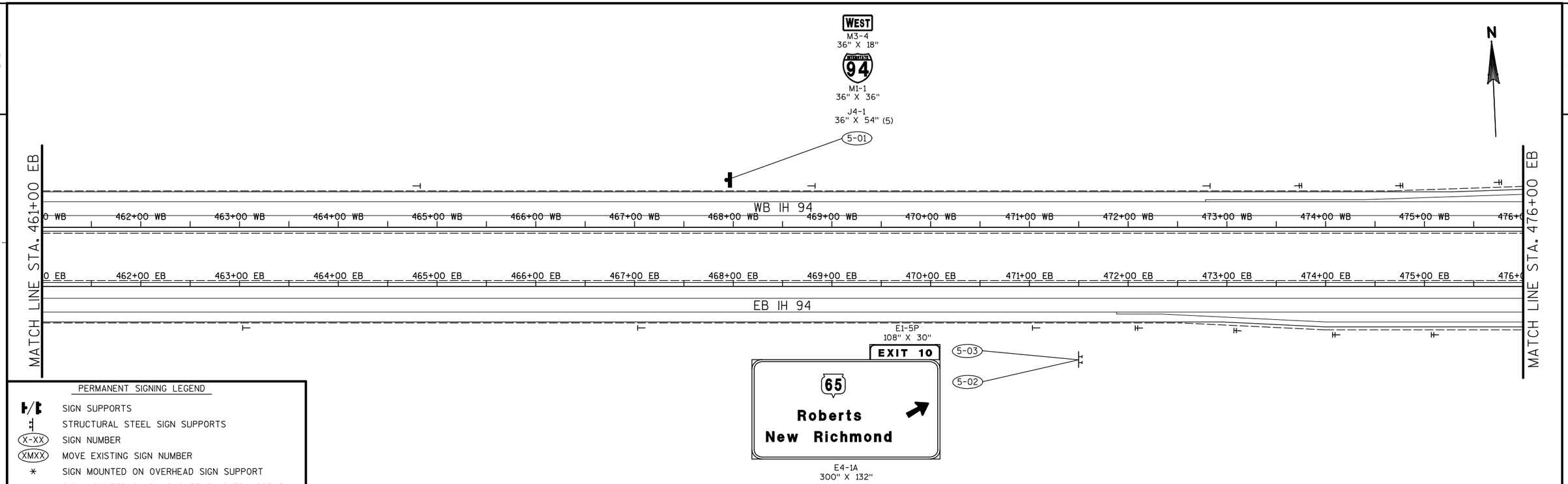
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PERMANENT SIGNING	SHEET 108	E



PERMANENT SIGNING LEGEND

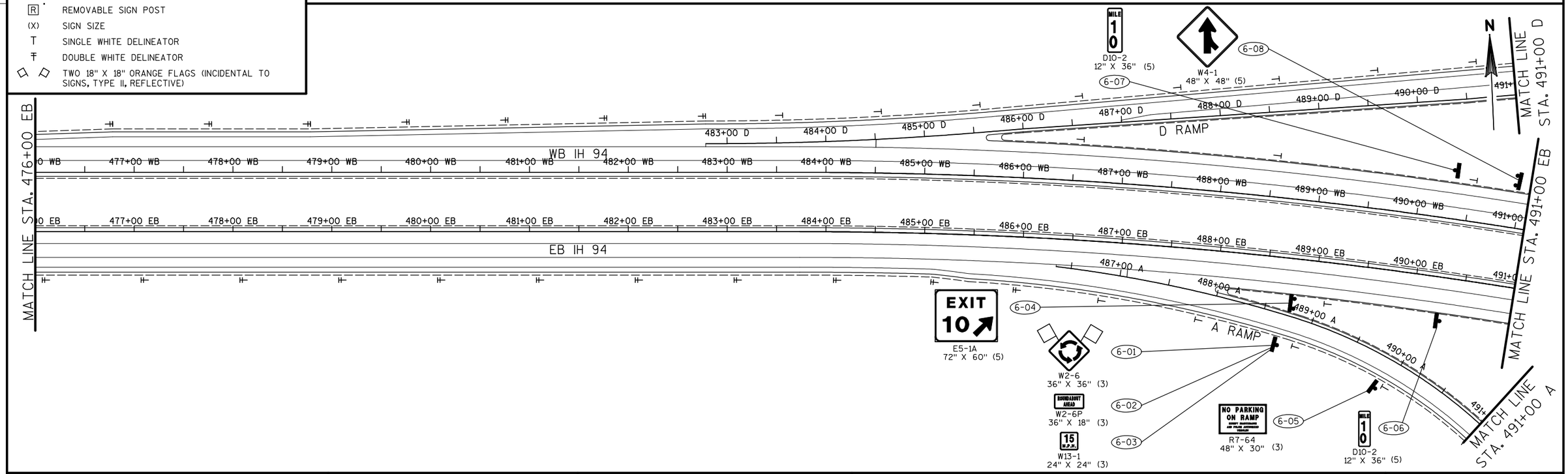
⊢/⊣	SIGN SUPPORTS
⊥	STRUCTURAL STEEL SIGN SUPPORTS
(X-XX)	SIGN NUMBER
(XMXX)	MOVE EXISTING SIGN NUMBER
*	SIGN MOUNTED ON OVERHEAD SIGN SUPPORT
**	SIGN MOUNTED ON RAMP GATE FLASHER ASSEMBLY
[R]	REMOVABLE SIGN POST
(X)	SIGN SIZE
T	SINGLE WHITE DELINEATOR
⫟	DOUBLE WHITE DELINEATOR
◇ ◇	TWO 18" X 18" ORANGE FLAGS (INCIDENTAL TO SIGNS, TYPE II, REFLECTIVE)

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PERMANENT SIGNING	SHEET 109	E

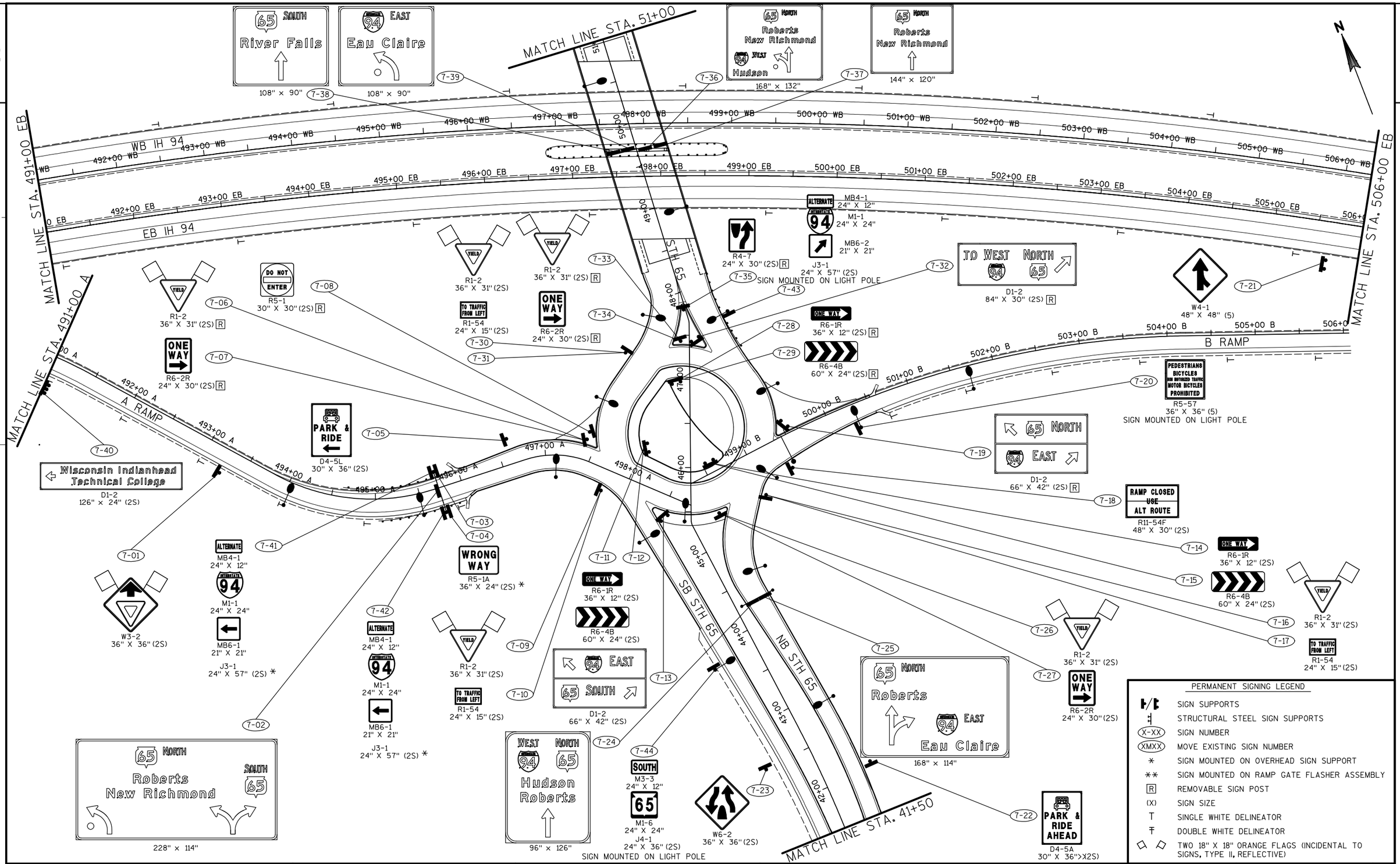


PERMANENT SIGNING LEGEND

- SIGN SUPPORTS
- STRUCTURAL STEEL SIGN SUPPORTS
- (X-XX) SIGN NUMBER
- (XMXX) MOVE EXISTING SIGN NUMBER
- * SIGN MOUNTED ON OVERHEAD SIGN SUPPORT
- ** SIGN MOUNTED ON RAMP GATE FLASHER ASSEMBLY
- [R] REMOVABLE SIGN POST
- (X) SIGN SIZE
- T SINGLE WHITE DELINEATOR
- ∓ DOUBLE WHITE DELINEATOR
- TWO 18" X 18" ORANGE FLAGS (INCIDENTAL TO SIGNS, TYPE II, REFLECTIVE)



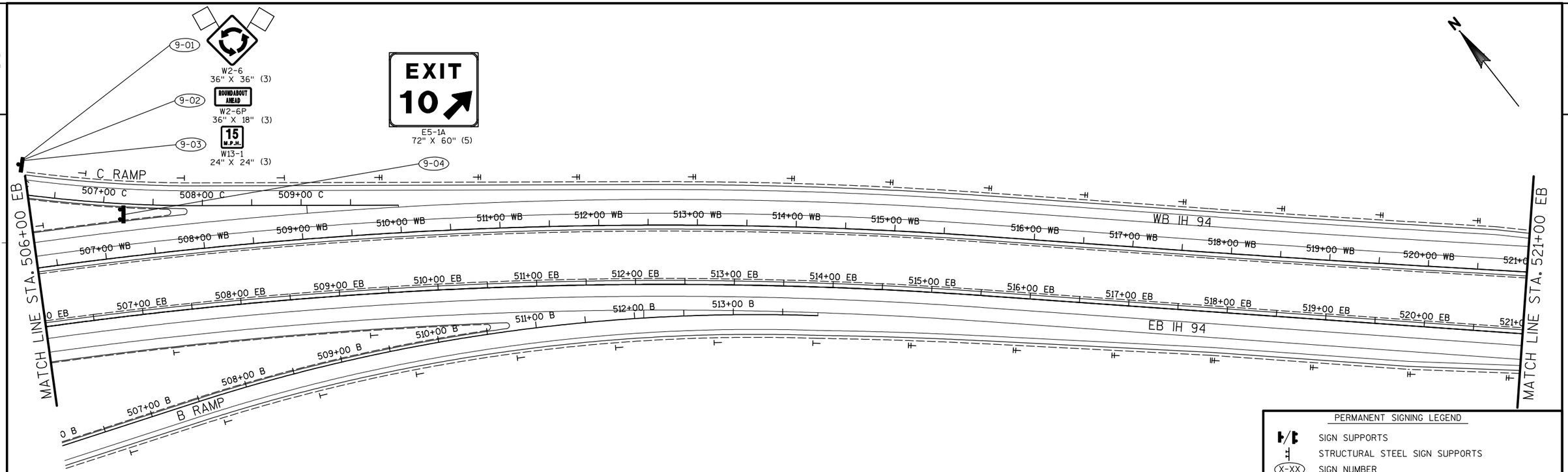
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PERMANENT SIGNING	SHEET 110	E



PERMANENT SIGNING LEGEND

⊦/⊧	SIGN SUPPORTS
⊦	STRUCTURAL STEEL SIGN SUPPORTS
(X-XX)	SIGN NUMBER
(XMXX)	MOVE EXISTING SIGN NUMBER
*	SIGN MOUNTED ON OVERHEAD SIGN SUPPORT
**	SIGN MOUNTED ON RAMP GATE FLASHER ASSEMBLY
[R]	REMOVABLE SIGN POST
(X)	SIGN SIZE
T	SINGLE WHITE DELINEATOR
⫟	DOUBLE WHITE DELINEATOR
◇ ◇	TWO 18" X 18" ORANGE FLAGS (INCIDENTAL TO SIGNS, TYPE II, REFLECTIVE)

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PERMANENT SIGNING	SHEET 111	E



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PERMANENT SIGNING	SHEET 112	E

2

Chippewa Valley
Wisconsin Indianhead
Technical Colleges
EXIT 10

E3-1
252" X 108"

11-01

UW River Falls
EXIT 10

E3-1
192" X 60"

11-02

1000'

WB IH 94

544+00 EB | 545+00 EB | 546+00 EB | 547+00 EB | 548+00 EB

EB IH 94

PERMANENT SIGNING LEGEND

⊢/⊣	SIGN SUPPORTS
⫲	STRUCTURAL STEEL SIGN SUPPORTS
(X-XX)	SIGN NUMBER
(XMXX)	MOVE EXISTING SIGN NUMBER
*	SIGN MOUNTED ON OVERHEAD SIGN SUPPORT
**	SIGN MOUNTED ON RAMP GATE FLASHER ASSEMBLY
[R]	REMOVABLE SIGN POST
(X)	SIGN SIZE
T	SINGLE WHITE DELINEATOR
⫪	DOUBLE WHITE DELINEATOR
◇ ◇	TWO 18" X 18" ORANGE FLAGS (INCIDENTAL TO SIGNS, TYPE II, REFLECTIVE)

1000'

300'

WB IH 94

I 94

11-03

New Richmond
EXIT 10

E3-1
180" X 60"

130th ST.

130TH STREET

600'

E1-1A
216" X 162"

E1-5A
108" X 30"

EXIT 10

65

Roberts
River Falls
1 MILE

NEXT EXIT 6 MILES

E2-1
156" X 24"

11-06

11-04

11-05

EB IH 94

I 94

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PERMANENT SIGNING	SHEET 113	E

2

N

River Falls 8
D2-1
78" X 15" (2S)
12-08

NO PASSING ZONE
W14-3
48" X 36" (2S)
12-04

SPEED LIMIT 55
R2-1
36" X 48" (3)
12-02

W6-3
36" X 36" (2S)
12-09

DO NOT ENTER
R5-1
30" X 30" (2S)
12-14

32+00 STH 65 33+00 34+00 35+00 36+00 37+00 38+00 39+00 40+00 41+00 SB STH 65 NB STH 65 41+50 MATCH LINE STA. 41+50

12-17

WEST NORTH EAST
INTERSTATE 94 65 INTERSTATE 94
J2-3
72" X 57" (2S)

MB3-4 24" X 12" | M3-1 24" X 12" | MB3-2 24" X 12"
M1-1 24" X 24" | M1-6 24" X 24" | M1-1 24" X 24"
MB6-1 21" X 21" | M6-1 21" X 21" | MB5-1R 21" X 21"

12-03
W6-1
36" X 36" (2S)

6M01
STH 65
STAR LN.

12-15
R4-7
24" X 30" (2S)

12-10
STOP
R1-1
30" X 30" (2S)

STAR LANE

12-11
STOP
R1-1
30" X 30" (2S)

12-12
W3-2
36" X 36" (2S)

12-05
W2-6
36" X 36" (3)

12-06
ROUNDABOUT AHEAD
W2-6P
36" X 18" (3)

12-07
15 M.P.H.
W13-1
24" X 24" (3)

PERMANENT SIGNING LEGEND

F/T	SIGN SUPPORTS
‡	STRUCTURAL STEEL SIGN SUPPORTS
X-XX	SIGN NUMBER
XMXX	MOVE EXISTING SIGN NUMBER
*	SIGN MOUNTED ON OVERHEAD SIGN SUPPORT
**	SIGN MOUNTED ON RAMP GATE FLASHER ASSEMBLY
R	REMOVABLE SIGN POST
(X)	SIGN SIZE
T	SINGLE WHITE DELINEATOR
‡	DOUBLE WHITE DELINEATOR
◇ ◇	TWO 18" X 18" ORANGE FLAGS (INCIDENTAL TO SIGNS, TYPE II, REFLECTIVE)

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PERMANENT SIGNING	SHEET 114	E

2

PERMANENT SIGNING LEGEND

- SIGN SUPPORTS
- STRUCTURAL STEEL SIGN SUPPORTS
- (X-XX) SIGN NUMBER
- (XMXX) MOVE EXISTING SIGN NUMBER
- * SIGN MOUNTED ON OVERHEAD SIGN SUPPORT
- ** SIGN MOUNTED ON RAMP GATE FLASHER ASSEMBLY
- [R] REMOVABLE SIGN POST
- (X) SIGN SIZE
- T SINGLE WHITE DELINEATOR
- ∓ DOUBLE WHITE DELINEATOR
- TWO 18" X 18" ORANGE FLAGS (INCIDENTAL TO SIGNS, TYPE II, REFLECTIVE)

N

MATCH LINE STA. 58+50

94 EAST Eau Claire — 108" × 90"

65 SOUTH River Falls — 108" × 90"

8-51 SPEED LIMIT 55 — R2-1, 36" X 48" (3)

8-44

8-45 MB4-1 24" X 12" / M3-1 24" X 12" / ALTERNATE INTERSTATE 94 NORTH 65 / M1-1 24" X 24" / M1-6 24" X 24" / J4-2 48" X 36" (2S) SIGN MOUNTED ON LIGHT POLE

8-48

8-49

8-50

W4-2L 36" X 36" (2S)

8-09 RAMP CLOSED USE ALT ROUTE — R11-54F 48" X 30" (2S)

8-10 65 SOUTH / 94 WEST — D1-2 66" X 42" (2S)

8-43 94 WEST / 65 NORTH — D1-2 66" X 42" (2S)

8-04 PEDESTRIANS BICYCLES NON MOTORIZED TRAFFIC MOTOR BICYCLES PROHIBITED — R5-57 36" X 36" (5)

8-41 YIELD — R1-2 36" X 31" (2S)

8-42 ONE WAY — R6-2R 24" X 30" (2S)

8-07 YIELD — R1-2 36" X 31" (2S)

8-08 TO TRAFFIC FROM LEFT — R1-54 24" X 15" (2S) SIGNS MOUNTED ON LIGHT POLE

8-05 RAMP CLOSED USE ALT ROUTE — R11-54F 48" X 30" (2S)

8-01

8-02 W4-2L 36" X 36" (2S)

8-03 PEDESTRIANS BICYCLES NON MOTORIZED TRAFFIC MOTOR BICYCLES PROHIBITED — R5-57 36" X 36" (5) SIGN MOUNTED ON LIGHT POLE

8-06 65 SOUTH / 94 WEST — D1-2 66" X 42" (2S)

ONE WAY — R6-1R 36" X 12" (2S)

R6-4B 60" X 24" (2S)

8-39

8-40

8-37

8-38

8-35

8-36

8-32 TO EAST 94 SOUTH 65 — D1-2 84" X 30" (2S)

8-29 R4-7 24" X 30" (2S)

MATCH LINE STA. 51+00

8-13 YIELD — R1-2 36" X 31" (2S)

8-14 ONE WAY — R6-2R 24" X 30" (2S)

8-11 [R] YIELD — R1-2 36" X 31" (2S)

8-15

8-12 [R] TO TRAFFIC FROM LEFT — R1-54 24" X 15" (2S)

8-16

ALTERNATE INTERSTATE 94 — MB4-1 24" X 12" / M1-1 24" X 24"

MB6-1 21" X 21" / J3-1 24" X 57" (2S) *

8-47

WRONG WAY — R5-1A 36" X 24" (2S) *

8-21

W12-1D 24" X 24" (2S)

8-20

8-22 WRONG WAY — R5-1A 36" X 24" (2S) *

8-46 ALTERNATE INTERSTATE 94 — MB4-1 24" X 12" / M1-1 24" X 24"

MB6-1 21" X 21" / J3-1 24" X 57" (2S) *

8-19 DO NOT ENTER — R5-1 30" X 30" (2S)

8-17

8-18

8-33

8-34

YIELD — R1-2 36" X 31" (2S)

TO TRAFFIC FROM LEFT — R1-54 24" X 15" (2S)

8-30

8-31

YIELD — R1-2 36" X 31" (2S)

ONE WAY — R6-2R 24" X 30" (2S)

65 NORTH Roberts New Richmond — 144" × 114"

8-23

65 SOUTH River Falls — 108" × 90"

8-24

PARK & RIDE — D4-5R 30" X 36" (2S)

8-25

NO PARKING ON RAMP EXCEPT MAINTENANCE AND POLICE AUTHORIZED VEHICLES — R7-64 48" X 30" (3)

8-26

W3-2 36" X 36" (2S)

8-27

IJW River Falls Chippewa Valley Tech College / Wis Indianhead Tech College — D1-3 168" X 36" (2S)

8-28

YIELD — R1-2 36" X 31" (2S)

ONE WAY — R6-2R 24" X 30" (2S)

R4-7 24" X 30" (2S)

8-52

8-53

8-54

8-55

8-56

8-57

8-58

8-59

8-60

8-61

8-62

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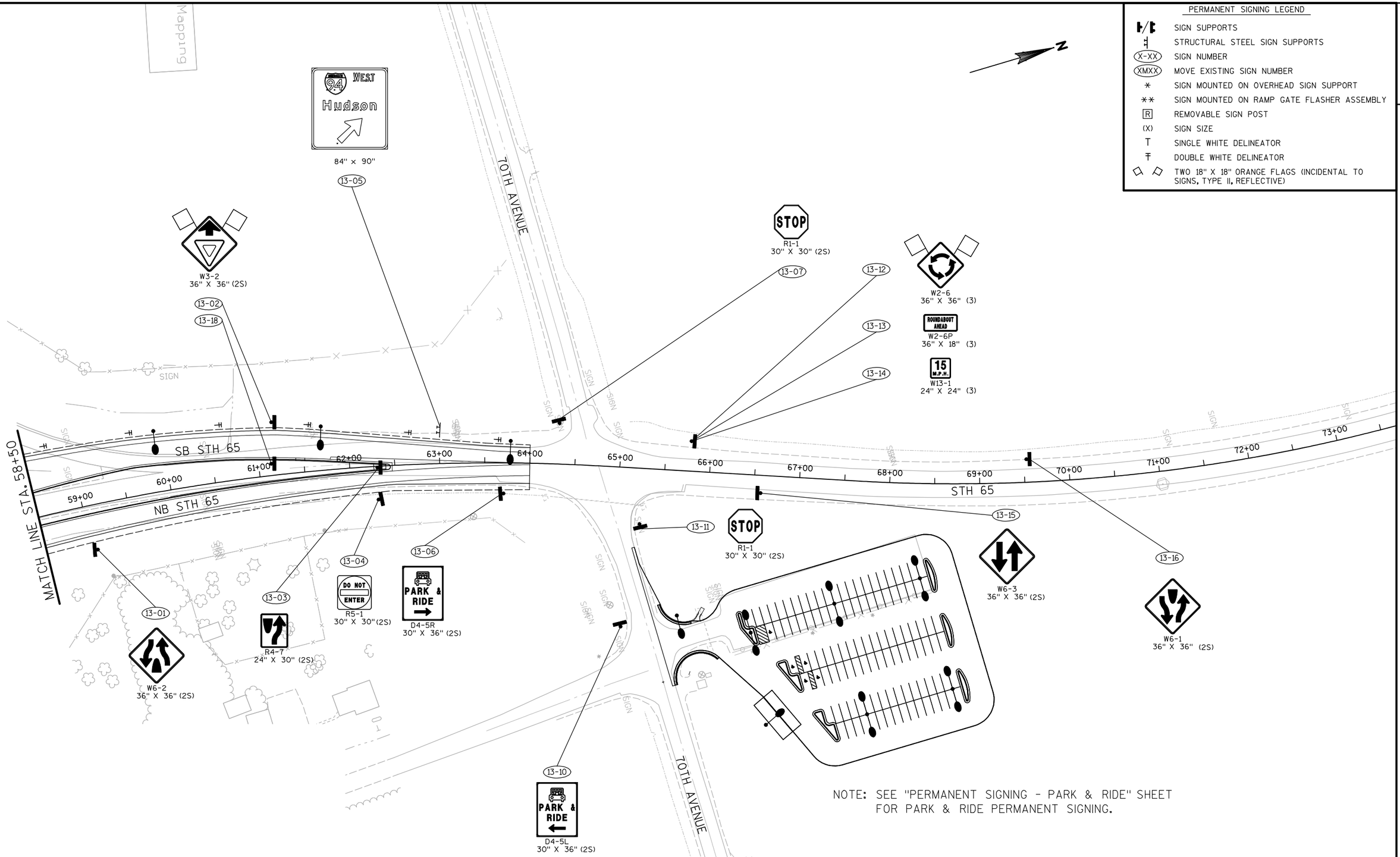
8-89

8-90

8-91

PERMANENT SIGNING LEGEND

⊦/⊏	SIGN SUPPORTS
⊦	STRUCTURAL STEEL SIGN SUPPORTS
(X-XX)	SIGN NUMBER
(XMXX)	MOVE EXISTING SIGN NUMBER
*	SIGN MOUNTED ON OVERHEAD SIGN SUPPORT
**	SIGN MOUNTED ON RAMP GATE FLASHER ASSEMBLY
[R]	REMOVABLE SIGN POST
(X)	SIGN SIZE
T	SINGLE WHITE DELINEATOR
⫪	DOUBLE WHITE DELINEATOR
◇ ◇	TWO 18" X 18" ORANGE FLAGS (INCIDENTAL TO SIGNS, TYPE II, REFLECTIVE)



NOTE: SEE "PERMANENT SIGNING - PARK & RIDE" SHEET FOR PARK & RIDE PERMANENT SIGNING.

2

2

94 EAST
EAU CLAIRE
108x90

65 SOUTH
RIVER FALLS
108x90

ON (LEFT SIDE ONLY)
YIELD
W3-2
36x36

PED. etc prohibited
R5-57
36x36

65 SOUTH
94 WEST
D1-2
66x42

FOLDING
1 RAMP CLOSED
USE ALT ROUTE
R11-54F
48x30

94 WEST
HUDSON
24"x10"

W2-6
36x36
W2-6-P
36x18"
ROUNDABOUT AHEAD
W13-1
24x24
15 MPH

8 (by others)

(by others)

J1-1
JCT
94

Future Signalized Intersection

(by others)

N

STH 65

60+00S

65+00S

55+00S

YIELD
R1-2
36x31
TO TRAFFIC FROM LEFT
R1-54
24x15

W4-2L
36x36

ALTERNATE 94 NORTH 65
J4-2
48x36

SPEED LIMIT 45
R2-1
36x48

W3-3
36x36

R3-8-W
54x30

R4-7
24x30

DO NOT ENTER
R5-1
30x30

PARK AND RIDE
D4-5R
30x36

70TH AVE.

8 (by others)

YIELD
R1-2
36x31
ONE WAY
R6-2R
24x30

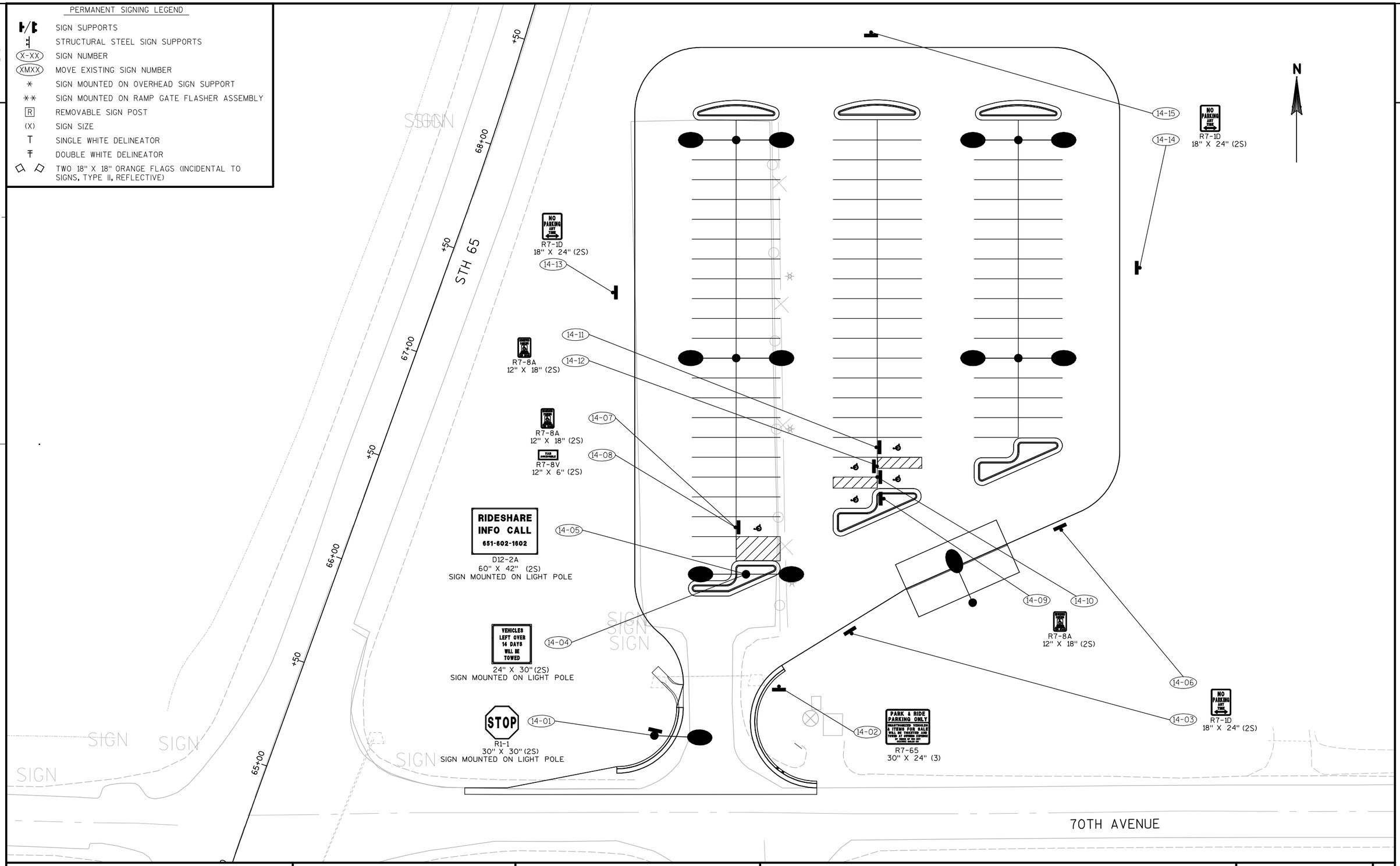
Sign plan revision to accomodate the signalized intersection at 70th Ave
MR

STATE PROJECT NO: 1020-07-74	HWY: IH-94	COUNTY: ST. CROIX	PERMANENT SIGNING	SHEET NO:	E

FILE NAME: C:\Users\PROJECTS\STH65J\pll_ps.dgn PLOT DATE: 31-MAY-2012 11:09 PLOT BY: dottxy PLOT NAME: PLOT SCALE: 2:1

PERMANENT SIGNING LEGEND

- SIGN SUPPORTS
- STRUCTURAL STEEL SIGN SUPPORTS
- (X-XX) SIGN NUMBER
- (XMXX) MOVE EXISTING SIGN NUMBER
- * SIGN MOUNTED ON OVERHEAD SIGN SUPPORT
- ** SIGN MOUNTED ON RAMP GATE FLASHER ASSEMBLY
- [R] REMOVABLE SIGN POST
- (X) SIGN SIZE
- T SINGLE WHITE DELINEATOR
- ∓ DOUBLE WHITE DELINEATOR
- TWO 18" X 18" ORANGE FLAGS (INCIDENTAL TO SIGNS, TYPE II, REFLECTIVE)

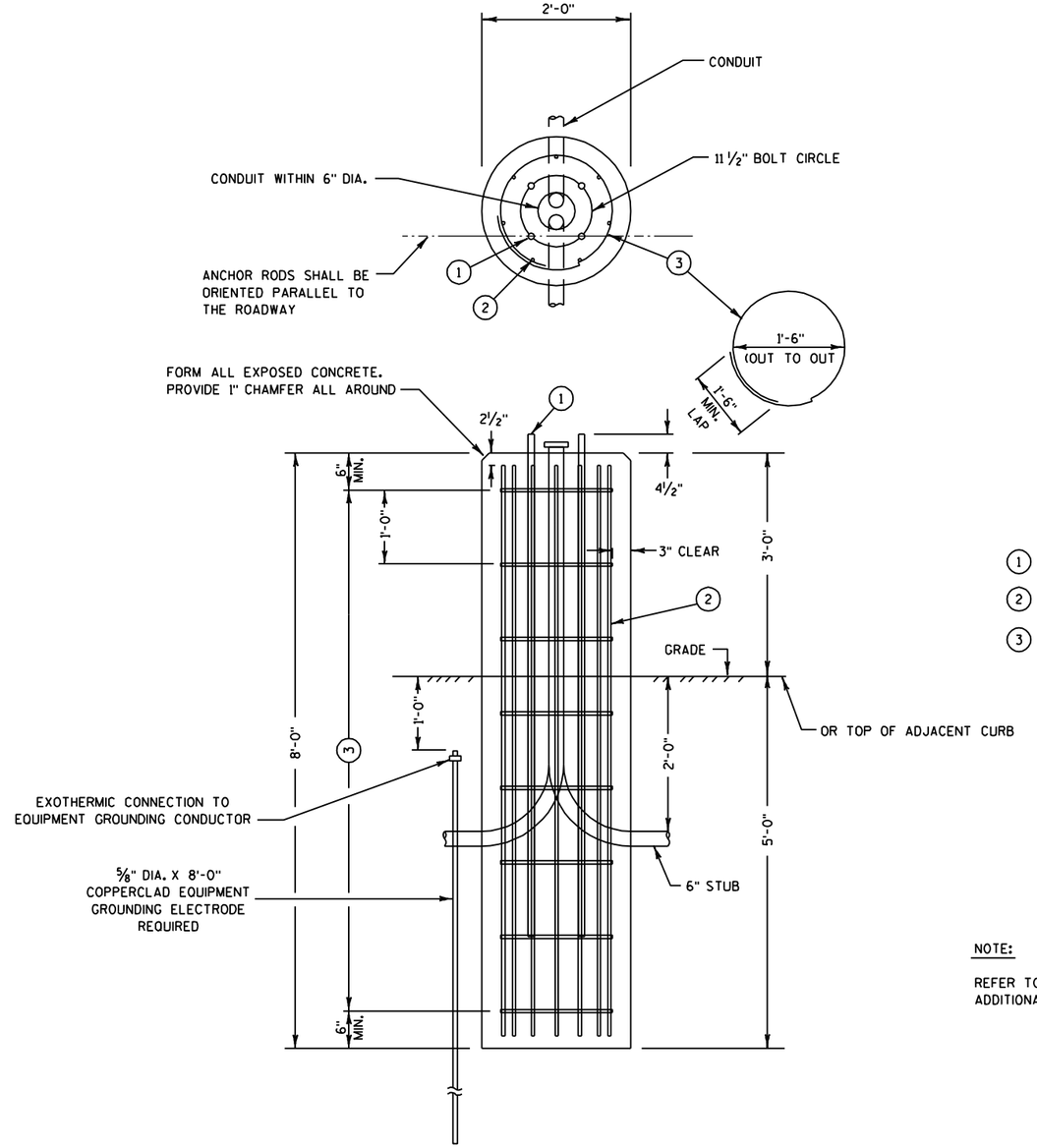


PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PERMANENT SIGNING - PARK & RIDE	SHEET 117	E

2

ESTIMATED QUANITIES PER BASE (APPROX.)

APPROX. CUBIC YARDS OF CONCRETE	0.93
LBS. OF HOOP BAR STEEL	36
LBS. OF VERTICAL BAR STEEL	36



(1) (4) 1" DIA. X 6'-6" ANCHOR RODS

(2) (7) NO. 4 X 7'-8" BAR STEEL REINFORCEMENT

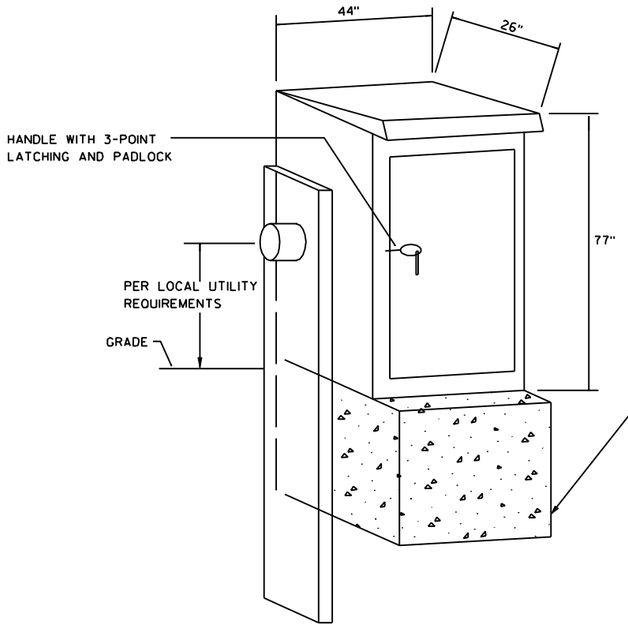
(3) (8) NO. 4 X 1'-6" DIA. BAR STEEL REINFORCEMENT @ 1'-0" C-C WITH 1'-6" MINIMUM OVERLAP.

NOTE:

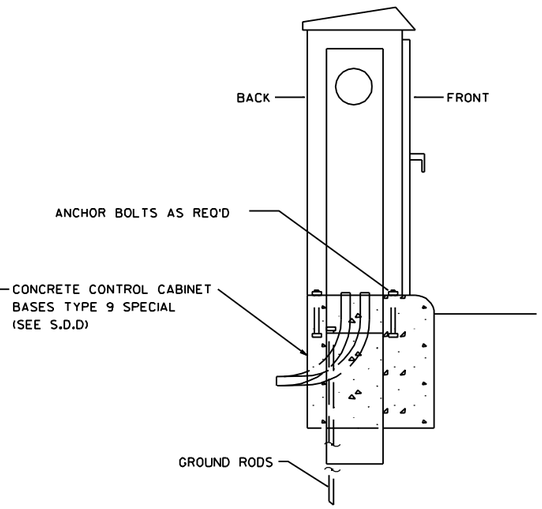
REFER TO S.D.D. "CONCRETE BASES TYPES 1, 2, & 5" FOR ADDITIONAL INFORMATION NOT SHOWN ON THIS SHEET.

CONCRETE BASES TYPE 5 BUMPER TYPE

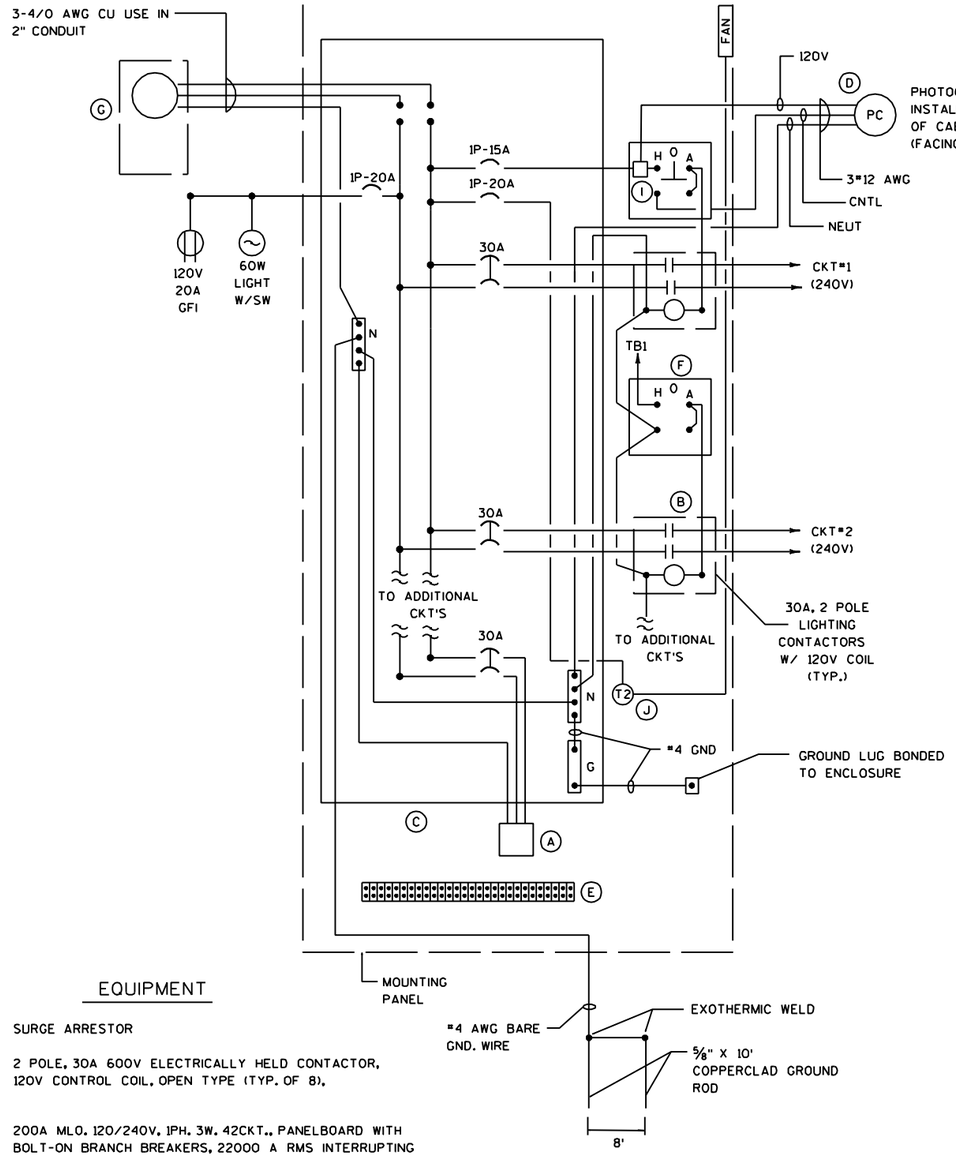
NO SCALE



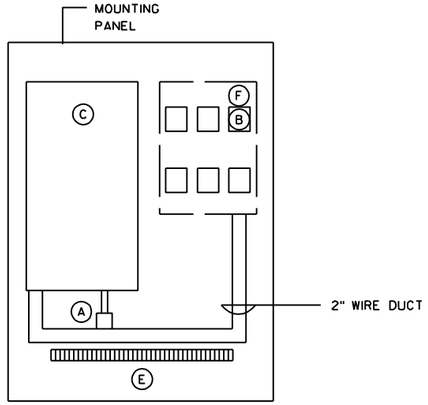
CABINET VIEW



SIDE VIEW



CONTROL DIAGRAM



EQUIPMENT LAYOUT

NOTES:

ALL CONTROL WIRING SHALL BE COLOR CODED #12 AWG, XLP UNLESS OTHERWISE NOTED.

ALL POWER AND CONTROL WIRING SHALL BE NEATLY ROUTED, LABELED AND SUPPORTED.

THE LIGHTING CONTROL CABINET SHALL BE COMPLETELY WIRED UP TO THE FIELD WIRING TERMINATION STRIP IN THE CONTRACTORS SHOP AND TESTED PRIOR TO THE INSTALLATION AT SITE.

A COPY OF THIS SHEET WITH AS-BUILT (RECORD) CONDITIONS SHALL BE PUT IN A PLASTIC PROTECTOR IN THE CABINET.

THE CONTRACTOR SHALL COMPLY WITH LOCAL UTILITY INSTALLATION REQUIREMENTS.

USE #10 AWG XLP CONDUCTORS FROM THE 30A CB'S TO THE FIELD WIRING TERMINATION STRIP. PROVIDE A GROUND WIRE AND NEUTRAL WIRE TO FIELD WIRING TERMINATION STRIP FROM PANELBOARD FOR EACH UNDERGROUND CABLE RUN TO LIGHTING UNITS AS REQUIRED.

CABINET DOOR TO OPEN AWAY FROM ROADWAY.

CABINET SHALL NOT OVERLAP THE CONCRETE CONTROL BASE.

CONFIRM METER PLACEMENT WITH WISDOT AND UTILITY. PLACE METER AS REQUIRED FOR MAINTAINING BENDING RADIUS OF CONDUCTORS.

ATTACH ALL EQUIPMENT TO CABINET MOUNTING CHANNEL.

EQUIPMENT

- (A) SURGE ARRESTOR
- (B) 2 POLE, 30A 600V ELECTRICALLY HELD CONTACTOR, 120V CONTROL COIL, OPEN TYPE (TYP. OF 8).
- (C) 200A MLO, 120/240V, 1PH, 3W, 42CKT., PANELBOARD WITH BOLT-ON BRANCH BREAKERS, 22000 A RMS INTERRUPTING CAPACITY.
- (D) BUTTON TYPE PHOTOCELL, 120V.
- (E) FIELD WIRING TERMINATION STRIP (MIN. 30 BLOCKS)
- (F) H-O-A SWITCH (TYP. OF 6)
- (G) 200A, 120/240V, 1 PH, 3W METER PEDESTAL
- (I) CONTROL TERMINAL BLOCK, TB1
- (J) THERMOSTAT FOR FAN CONTROL

LIGHTING CONTROL CABINET TYPE A

NO SCALE

STREET LIGHTING PLANS PREPARED BY

WISCONSIN
MIKE D. SCARMON
E-37613
EVANSVILLE, WI
PROFESSIONAL ENGINEER

4-22-2011 (DATE) (SIGNATURE)

LIGHTING PLAN LEGEND

STATION — OFFSET — LIGHT UNIT NUMBER — CONSTRUCTION STAGE UNIT REQUIRED BY

180+25 - 33'LT - SL6

6 - 6 - 15 - 250 - B - 3G

BASE TYPE — POLE TYPE — MAST ARM LENGTH — LAMP WATTAGE (IES TYPE III) — CIRCUIT LETTER (LEFT/RIGHT)

LIGHTING UNIT (TYPE)

LIGHTING CONTROL CABINET (TYPE)

PULL BOX (24" X 42" STEEL)

CONDUIT RIGID NONMETALLIC (2-INCH SCHEDULE 40 UNLESS NOTED OTHERWISE)

MISC. ABBREVIATIONS

PWO = PULL WIRE ONLY

STR = LIGHT MOUNTED TO STRUCTURE ANCHORAGE (NO TRANSFORMER BASE)

5B = CONCRETE BASES TYPE 5 BUMPER TYPE

36+05 - 34.0'RT - PB100

37+05.5 - 33.0'RT - PB101

37+57 - 32.5'RT - SL100
6 - 6 - 15 - 150 - A

37+69 - 31.0'RT - PB102

41+04 - 47.3'RT - SL102
6 - 6 - 15 - 150 - A

43+77 - 53.2'LT - SL141
6 - 6 - 15 - 150 - D

494+04A - 27.0'RT - SL136
6 - 6 - 15 - 150 - D

SEE STRUCTURE B-55-0249 & R-55-15 & R-55-16 PLANS FOR ADDITIONAL ELECTRICAL INFORMATION

495+50A - 25.0'RT - SL137
6 - 6 - 15 - 250 - C

496+95A - 25.0'RT - PB123
3G

497+12A - 25.0'RT - SL138
6 - 6 - 15 - 250 - D - 3G

496+95A - 25.0'LT - PB122
3G

498+39A - 62.0'RT - SL139
6 - 6 - 15 - 250 - C - 3G

46+81 - 105.9'LT - SL135
6 - 6 - 15 - 250 - C - 3G

45+20 - 60.5'LT - PB124
3G

45+10 - 11.6'LT - PB125
3G

50+55 - 35.4'LT - SL133
STR - 6 - 15 - 250 - C - 3G

47+88 - 47.9'LT - SL134
6 - 6 - 15 - 250 - D - 3G

47+98 - 39.1'LT - PB121
3G

STH 65

STARR LANE

39+28 - 34.2'RT - SL101
6 - 6 - 15 - 150 - B

42+89 - 51.6'RT - SL103
6 - 6 - 15 - 250 - B

44+55 - 51.9'RT - SL104
6 - 6 - 15 - 250 - A

44+94 - 66.0'RT - PB103

45+39 - 07.6'RT - SL140
6 - 6 - 15 - 250 - D - 3G

45+88 - 97.7'RT - SL105
6 - 6 - 15 - 250 - B

499+97B - 30.6'RT - PB104

500+32B - 28.2'RT - SL106
6 - 6 - 15 - 250 - A

501+21B - 27.0'RT - SL107
6 - 6 - 15 - 150 - B

RAMP A

RAMP B

EB IH 94

WB IH 94

MATCH LINE STA. 51+00

46+95 - 99.7'RT - SL108
6 - 6 - 15 - 250 - A - 3G

499+92B - 32.6'LT - PB105

48+91 - 35.4'RT - SL110
STR - 6 - 15 - 250 - A - 3G

48+00 - 37.8'RT - PB106
3G

47+67 - 45.2'RT - SL109
6 - 6 - 15 - 250 - B - 3G

NOTES:

1) WISCONSIN DOT NORTHWEST REGION ELECTRICAL UNIT SHALL APPROVE THE FINAL LOCATION FOR ALL CONCRETE BASES IN THE FIELD PRIOR TO CONSTRUCTION. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

2) PITCH ALL CONDUITS TOWARD PULLBOXES. INSTALL A 2" DRAIN DUCT TO DITCH OR STORM SEWER AS REQUIRED FOR DRAINAGE. THIS 2" DRAIN DUCT IS INCIDENTAL TO THE PULL BOX BID ITEM. DRAIN DUCT IS NOT SHOWN.

3) THE LOCATION OF EXISTING AND PROPOSED UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. IN ADDITION, THERE MAY BE OTHER UTILITIES WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.

4) SEE FTMS PLANS FOR ADDITIONAL ELECTRICAL WORK AND AREAS WHERE COORDINATION WILL BE REQUIRED.

5) ENERGIZE STREET LIGHTING SYSTEM BY THE STAGE AS INDICATED IN THE SPECIAL PROVISIONS.

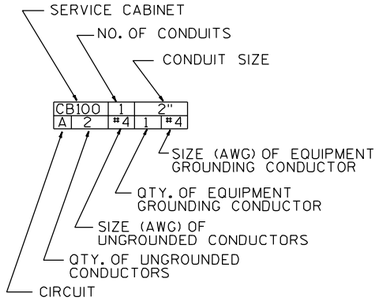
6) LIGHT BASES SHALL BE A MINIMUM OF 5-FEET FROM THE BACK OF CURB, 4-FEET FROM THE FACE OF GUARDRAIL, 2-FEET FROM EDGE OF SHOULDER OR 12-FEET FROM THE EDGE OF LANE AT A MINIMUM.

7) CONDUIT RIGID METALLIC IS REQUIRED ACROSS ALL STRUCTURE EXPANSION JOINTS. FIVE FEET (MINIMUM) ON EITHER SIDE OF THE EXPANSION JOINT REQ'D. APPLY ASPHALTIC SEALANT TO ANY EXPOSED METALLIC CONDUIT. EXPANSION FITTING, BONDING JUMPER AND ASPHALTIC SEALANT TO BE CONSIDERED INCIDENTAL TO THE CONDUIT. CONTINUE RIGID METALLIC CONDUIT FROM THE STRUCTURE WINGWALL TO THE FIRST LIGHT BASE OR PULL BOX.

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	LIGHTING PLANS	SHEET 120	E

CONDUIT/CONDUCTOR LEGEND

CONDUCTOR COLOR LEGEND
A/E - BLACK
B/F - RED
C/G - BLUE
D/H - BROWN
240V PHASE TO PHASE



N

STH 65
STARR LANE
RAMP A
RAMP B
EB IH 94
WB IH 94
PWO
MATCH LINE STA. 51+00

36+05 - 34.0'RT - PB100
37+05.5 - 31.0'RT - PB101
37+57 - 32.5'RT - SL100
6 - 6 - 15 - 150 - A
37+69 - 33.0'RT - PB102
39+28 - 34.2'RT - SL101
6 - 6 - 15 - 150 - B
41+04 - 47.3'RT - SL102
6 - 6 - 15 - 150 - A
42+89 - 51.6'RT - SL103
6 - 6 - 15 - 250 - B
43+77 - 53.2'LT - SL141
6 - 6 - 15 - 150 - D
44+55 - 51.9'RT - SL104
6 - 6 - 15 - 250 - A
44+94 - 66.0'RT - PB103
45+20 - 60.5'LT - PB124
45+10 - 11.6'LT - PB125
45+39 - 07.6'RT - SL140
6 - 6 - 15 - 250 - D
45+88 - 97.7'RT - SL105
6 - 6 - 15 - 250 - B
494+04A - 27.0'RT - SL136
6 - 6 - 15 - 150 - D
495+50A - 25.0'RT - SL137
6 - 6 - 15 - 250 - C
496+95A - 25.0'RT - PB123
497+12A - 25.0'RT - SL138
6 - 6 - 15 - 250 - D
498+39A - 62.0'RT - SL139
6 - 6 - 15 - 250 - C
499+97B - 30.6'RT - PB104
499+92B - 32.6'LT - PB105
500+32B - 28.2'RT - SL106
6 - 6 - 15 - 250 - A
501+21B - 27.0'RT - SL107
6 - 6 - 15 - 150 - B
496+95A - 25.0'LT - PB122
46+81 - 105.9'LT - SL135
6 - 6 - 15 - 250 - C
50+55 - 35.4'LT - SL133
STR - 6 - 15 - 250 - C
47+88 - 47.9'LT - SL134
6 - 6 - 15 - 250 - D
47+98 - 39.1'LT - PB121
46+95 - 99.7'RT - SL108
6 - 6 - 15 - 250 - A
48+91 - 35.4'RT - SL110
STR - 6 - 15 - 250 - A
48+00 - 37.8'RT - PB106
47+67 - 45.2'RT - SL109
6 - 6 - 15 - 250 - B

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	LIGHTING PLANS	SHEET 121	E

MATCH LINE STA. 493+00'D'

493+91D - 12.0'RT - SL129
6 - 6 - 15 - 150 - G

495+05D - 14.0'RT - PB117

495+04DB - 14.0'RT- PB116

495+86D - 12.0'RT - SL130
6 - 6 - 15 - 150 - H

495+61DB - 12.0'RT - SL127
6 - 6 - 15 - 150 - H

497+03D - 10.0'RT - PB119 - 3E

497+00D - 29.0'LT - PB118 - 3E

53+79 - 80.1'LT - SL118
6 - 6 - 15 - 250 - G - 3E

497+09DB - 12.0'RT - SL126
6 - 6 - 15 - 150 - G

51+30 - 36.7'RT - PB107 - 3E

51+37 - 58.2'RT - CB100 - 3E

51+50 - 37.6'LT - PB120 - 3E

51+51 - 44.9'RT - PB108 - 3E

51+86 - 52.6'LT - SL132
6 - 6 - 15 - 250 - G - 3E

52+80 - 98.5'LT - SL131
6 - 6 - 15 - 250
H - 3E

54+17 - 64.5'LT - PB114 - 3E

498+62DB - 12.0'RT - SL125
6 - 6 - 15 - 150 - H

58+16 - 78.1'LT - SL121
6 - 6 - 15 - 150 - G

59+92 - 67.7'LT - SL122
6 - 6 - 15 - 150 - H

54+86 - 47.3'LT - SL119
6 - 6 - 15 - 250 - F - 3E

498+96DB - 14.0'RT - PB115

61+72 - 48.7'LT - SL123
6 - 6 - 15 - 150 - G

63+79 - 24.5'LT - SL124
6 - 6 - 15 - 150 - H

51+71 - 49.8'RT - SL111
6 - 6 - 15 - 250 - E - 3E

56+24 - 53.2'LT - SL120
6 - 6 - 15 - 250 - E

52+58 - 98.6'RT - SL112
6 - 6 - 15 - 250 - F - 3E

54+37 - 03.7'LT - PB113
3E

55+73 - 43.7'RT - SL116
6 - 6 - 15 - 150 - F

54+46 - 56.7'RT - PB112
3E

497+39C - 10.0'RT - PB109
3E

54+23 - 10.1'RT - SL117
6 - 6 - 15 - 250 - E - 3E

497+19C - 31.3'LT - SL113
6 - 6 - (2)15 - (2)250 - E/F - 3E

497+63C - 70.3'LT - PB111
3E

497+45C - 30.6'LT - PB110
3E

498+96C - 28.6'LT - SL114
6 - 6 - 15 - 250 - E - 3E

500+34C - 27.0'LT - SL115
6 - 6 - 15 - 150 - F

RAMP D

RAMP C

STH 65

70TH AVE.

MATCH LINE STA. 51+00

MATCH LINE STA. 493+00'D'

492+26D - 12.0'RT - SL128
6 - 6 - 15 - 150 - H

65+73 - 160.7'RT - SL203
5B - 5 - 12 - 150 - B

66+56 - 174.9'RT - SL204
5B - 5 - (2)12 - (2)150 - B/B

67+46 - 137.4'RT - SL205
5B - 5 - (2)12 - (2)150 - B/B

68+35 - 105.3'RT - SL206
5B - 5 - (2)12 - (2)150 - B/B

66+61 - 240.5'RT - PB200

NOTE: PLACE LIGHTS ON CORNERS OF PARKING SPOTS

68+70 - 227.7'RT - SL202
5B - 5 - (2)12 - (2)150 - A/A

67+86 - 258.0'RT - SL201
5B - 5 - (2)12 - (2)150 - A/A

66+54 - 247.9'RT - CB200

66+78 - 276.0'RT - SL200
5B - 5 - 12 - 150 - A

INSERT "A"
(PARK & RIDE)

NOTE: WISDOT FORCES TO REMOVE EXISTING PARK AND RIDE LIGHTING

SEE INSERT "A"
(PARK & RIDE)

LIGHTING CABINET INFORMATION:

CB100
-CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL
-LIGHTING CONTROL CABINET TYPE A
-ELECTRICAL SERVICE METER BREAKER PEDESTAL (120/240V SINGLE PHASE 200 AMP)
-SHARED SERVICE WITH FTMS CABINET

CB200
-CONCRETE CONTROL CABINET BASES TYPE 10
-LIGHTING CONTROL CABINET TYPE B
-PEDESTAL BASE AND ALUMINUM STANDARD REQUIRED (SEE SDD)
-ELECTRICAL SERVICE METER BREAKER PEDESTAL (120/240V SINGLE PHASE 100 AMP)

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	LIGHTING PLANS	SHEET 122	E

MATCH LINE STA. 493+00'D'

RAMP D

493+00 WB

494+00 WB

495+00 WB

493+00 EB

493+91D - 12.0'RT - SL129
6 - 6 - 15 - 150 - G

CB100 | 1 | 2"
H | 2 | #4 | 1 | #4

CB100 | 1 | 2"
C | 2 | #4 | 1 | #4
H | 2 | #4 | -- | --

CB100 | 1 | 2"
G | 2 | #4 | 1 | #4
H | 2 | #4 | -- | --

495+04DB - 14.0'RT - PB116

CB100 | 1 | 2"
G | 2 | #4 | 1 | #4
H | 2 | #4 | -- | --

495+05D - 14.0'RT - PB117

CB100 | 1 | 3"
G | 4 | #4 | 2 | #4
H | 4 | #4 | -- | --

495+61DB - 12.0'RT - SL127
6 - 6 - 15 - 150 - H

CB100 | 1 | 2"
C | 2 | #4 | 1 | #4
H | 2 | #4 | -- | --

51+86 - 52.6'LT - SL132
6 - 6 - 15 - 250 - G

495+86D - 12.0'RT - SL130
6 - 6 - 15 - 150 - H

497+03D - 10.0'RT - PB119

51+51 - 44.9'RT - PB108

497+00D - 29.0'LT - PB118

51+50 - 37.6'LT - PB120

52+80 - 98.5'LT - SL131
6 - 6 - 15 - 250 - H

53+79 - 80.1'LT - SL118
6 - 6 - 15 - 250 - G

CB100 | 2 | 2"
C | 2 | #4 | 1 | #4
D | 2 | #4 | -- | --
G | 2 | #4 | 1 | #4
H | 2 | #4 | -- | --

CB100 | 1 | 2"
C | 2 | #4 | 1 | #4
D | 2 | #4 | -- | --

CB100 | 1 | 2"
G | 2 | #4 | 1 | #4
H | 2 | #4 | -- | --

CB100 | 1 | 3"
G | 4 | #4 | 2 | #4
H | 2 | #4 | -- | --

497+09DB - 12.0'RT - SL126
6 - 6 - 15 - 150 - G

CB100 | 1 | 2"
G | 2 | #4 | 1 | #4

51+30 - 36.7'RT - PB107

CB100 | 1 | 2"
C | 2 | #4 | 1 | #4
H | 2 | #4 | -- | --

498+62DB - 12.0'RT - SL125
6 - 6 - 15 - 150 - H

CB100 | 1 | 2"
G | 2 | #4 | 1 | #4
H | 2 | #4 | -- | --

54+17 - 64.5'LT - PB114

CB100 | 1 | 2"
E | 2 | #4 | 1 | #4
F | 2 | #4 | -- | --

CB100 | 1 | 2"
G | 2 | #4 | 1 | #4
H | 2 | #4 | -- | --

58+16 - 78.1'LT - SL121
6 - 6 - 15 - 150 - G

CB100 | 1 | 2"
A | 2 | #4 | 1 | #4
B | 2 | #4 | -- | --

MATCH LINE STA. 51+00

52+00

53+00

54+00

55+00

57+00

58+00

59+00

60+00

61+00

62+00

63+00

64+00

65+00

STH 65

498+00 D

499+00 D

500+00 D

PWO

54+86 - 47.3'LT - SL119
6 - 6 - 15 - 250 - F

CB100 | 1 | 2"
E | 2 | #4 | 1 | #4
F | 2 | #4 | -- | --

CB100 | 1 | 3"
E | 4 | #4 | 3 | #4
F | 6 | #4 | -- | --

498+96DB - 14.0'RT - PB115

CB100 | 1 | 2"
E | 2 | #4 | 1 | #4

CB100 | 1 | 2"
G | 2 | #4 | 1 | #4
H | 2 | #4 | -- | --

59+92 - 67.7'LT - SL122
6 - 6 - 15 - 150 - H

CB100 | 1 | 2"
G | 2 | #4 | 1 | #4
H | 2 | #4 | -- | --

61+72 - 48.7'LT - SL123
6 - 6 - 15 - 150 - G

CB100 | 1 | 2"
H | 2 | #4 | 1 | #4

63+79 - 24.5'LT - SL124
6 - 6 - 15 - 150 - H

51+71 - 49.8'RT - SL111
6 - 6 - 15 - 250 - E

56+24 - 53.2'LT - SL120
6 - 6 - 15 - 250 - E

CB100 | 1 | 3"
A | 2 | #4 | 1 | #4
B | 2 | #4 | -- | --

51+37 - 58.2'RT - CB100

CB100 | 1 | 3"
E | 6 | #4 | 3 | #4
F | 6 | #4 | -- | --

55+73 - 43.7'RT - SL116
6 - 6 - 15 - 150 - F

CB100 | 1 | 2"
F | 2 | #4 | 1 | #4

CB100 | 2 | 3"
C | 2 | #4 | 1 | #4
D | 2 | #4 | -- | --
E | 2 | #4 | 1 | #4
F | 2 | #4 | -- | --
G | 2 | #4 | 1 | #4
H | 2 | #4 | -- | --

CB100 | 1 | 2"
E | 2 | #4 | 1 | #4
F | 2 | #4 | -- | --

54+37 - 03.7'LT - PB113

CB100 | 1 | 3"
E | 2 | #4 | 2 | #4
F | 4 | #4 | -- | --

54+47 - 56.7'RT - PB112

52+58 - 98.6'RT - SL112
6 - 6 - 15 - 250 - F

CB100 | 1 | 2"
E | 2 | #4 | 1 | #4
F | 2 | #4 | -- | --

54+23 - 10.1'RT - SL117
6 - 6 - 15 - 250 - E

CB100 | 1 | 2"
E | 2 | #4 | 1 | #4
F | 2 | #4 | -- | --

497+39C - 10.0'RT - PB109

CB100 | 1 | 2"
E | 2 | #4 | 1 | #4
F | 2 | #4 | -- | --

CB100 | 1 | 3"
E | 4 | #4 | 2 | #4
F | 4 | #4 | -- | --

497+19C - 31.3'LT - SL113
6 - 6 - (2)15 - (2)250 - E/F

497+45C - 30.6'LT - PB110

497+63C - 70.3'LT - PB111

CB100 | 1 | 2"
E | 2 | #4 | 1 | #4
F | 2 | #4 | -- | --

498+96C - 28.6'LT - SL114
6 - 6 - 15 - 250 - E

RAMP C

498+00 C

499+00 C

500+00 C

CB100 | 1 | 2"
F | 2 | #4 | 1 | #4

500+34C - 27.0'LT - SL115
6 - 6 - 15 - 150 - F

492+00 D

492+26D - 12.0'RT - SL128
6 - 6 - 15 - 150 - H

CB100 | 1 | 2"
H | 2 | #4 | 1 | #4

MATCH LINE STA. 493+00'D'

N

65+73 - 160.7'RT - SL203
5B - 5 - 12 - 150 - B

66+56 - 174.9'RT - SL204
5B - 5 - (2)12 - (2)150 - B

67+46 - 137.4'RT - SL205
5B - 5 - (2)12 - (2)150 - B

68+35 - 105.3'RT - SL206
5B - 5 - (2)12 - (2)150 - B

68+00

69+00

70+00

STH 65

70TH AVE.

CB200 | 1 | 2"
B | 2 | #8 | 1 | #8

CB200 | 1 | 2"
B | 2 | #8 | 1 | #8

CB200 | 1 | 2"
B | 2 | #8 | 1 | #8

66+61 - 240.5'RT - PB200

CB200 | 2 | 2"
A | 2 | #8 | 1 | #8
B | 2 | #8 | -- | --

66+54 - 247.9'RT - CB200

CB200 | 1 | 2"
A | 2 | #8 | 1 | #8

68+70 - 227.7'RT - SL202
5B - 5 - (2)12 - (2)150 - A

66+78 - 276.0'RT - SL200
5B - 5 - 12 - 150 - A

CB200 | 1 | 2"
A | 2 | #8 | 1 | #8

CB200 | 1 | 2"
A | 2 | #8 | 1 | #8

67+86 - 258.0'RT - SL201
5B - 5 - (2)12 - (2)150 - A

INSERT "A"
(PARK & RIDE)

70TH AVE.

SEE INSERT "A"
(PARK & RIDE)

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	LIGHTING PLANS	SHEET	E

FILE NAME : g:\strand\s100917\dgn\lighting sheets\023502A_LP.dgn PLOT DATE : 4/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

LEGEND

- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- CABLE - OVERHEAD
- OH — OVERHEAD DROP CABLE
- SIGNAL HEAD, OVERHEAD MOUNT
- CLASS 4 WOOD POLE
- TEMPORARY BASE
- PEDESTRIAN HEAD
- (11) APPROXIMATE VIDEO DETECTION ZONE
- CONTROL CABINET
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKER POSTS & BASE
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- TRAFFIC FLOW ARROW
- TEMPORARY LUMINAIRES
- 2 SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW

STAGES 1 AND 2 SUMMARY (FOR INFORMATION ONLY)	
WOOD POLES, CLASS 4	9 EA.
GUY WIRES	10 EA.
OH WIRE	1120 LF
CONTROLLER/CABINET	1 EA.
LUMINAIRES	4 EA.

N

EB IH 94 EXIT

MATCH LINE
SEE TRAFFIC CONTROL
SIGNAL DETAIL,
SHEET 2 OF 9

EB IH 94 ENTRANCE

STH 65

INSTALL APPROXIMATELY 150' TO STOP BAR (61)

INSTALL APPROXIMATELY 150' TO STOP BAR (21)

USED DURING STAGE 3E AND STAGE 3F

CONSTRUCTION NOTES:

1. FINAL LOCATION OF SIGNAL POLES, SPAN WIRE, CONTROLLER AND HEADS SHALL BE APPROVED BY THE ENGINEER.
2. UNUSED SIGNAL HEADS SHALL BE COVERED IF NOT IN USE. FURNISH A COVER THAT IS BLACK, OPAQUE, AND IS SUFFICIENTLY DURABLE TO WITHSTAND THE EFFECTS OF WEATHER.
3. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.
4. THE LOCATION OF EXISTING AND PROPOSED UTILITIES ARE APPROXIMATE. THERE MAY BE OTHER EXISTING UTILITIES AND PROPOSED UTILITY INSTALLATIONS WITHIN THE PROJECT THAT ARE NOT SHOWN.
5. ALL TEMPORARY TRAFFIC SIGNAL INSTALLATIONS, MATERIALS, AND OPERATIONS SHALL BE IN ACCORDANCE WITH STANDARD DESIGN DETAILS FOR "SPAN WIRE TEMPOARARY TRAFFIC SIGNAL".
6. CONTRACTOR TO PROVIDE TEMPORARY VIDEO DETECTION SYSTEM WHICH WILL DETECT TRAFFIC AT THE TEMPORARY STOP BAR AND OTHER LOCATIONS AS INDICATED ON THE PLANS AND AS DIRECTED BY THE ENGINEER. THE LOCATION OF THE POLE(S) AND OVERHEAD WIRE ROUTING FOR THE VIDEO DETECTION SYSTEM AS DEPICTED ON THE PLANS CAN BE MODIFIED AND SHALL BE APPROVED BY THE ENGINEER. THE VIDEO DETECTION SYSTEM SHALL BE MOUNTED NO LESS THAN 30 FEET HIGH ON A POLE. CONTRACTOR TO PROVIDE ADDITIONAL POLES AS NEEDED TO ALLOW FOR PROPER LOCATION OF VIDEO DETECTION. INDIVIDUAL VIDEO DETECTION ZONE LOCATIONS SHALL BE ADJUSTED TO REFLECT ACTUAL FIELD CONDITIONS.

TRAFFIC CONTROL SIGNAL
IH 94 & STH 65
TOWN OF WARREN
ST. CROIX COUNTY

SIGNAL NO. TEMPORARY

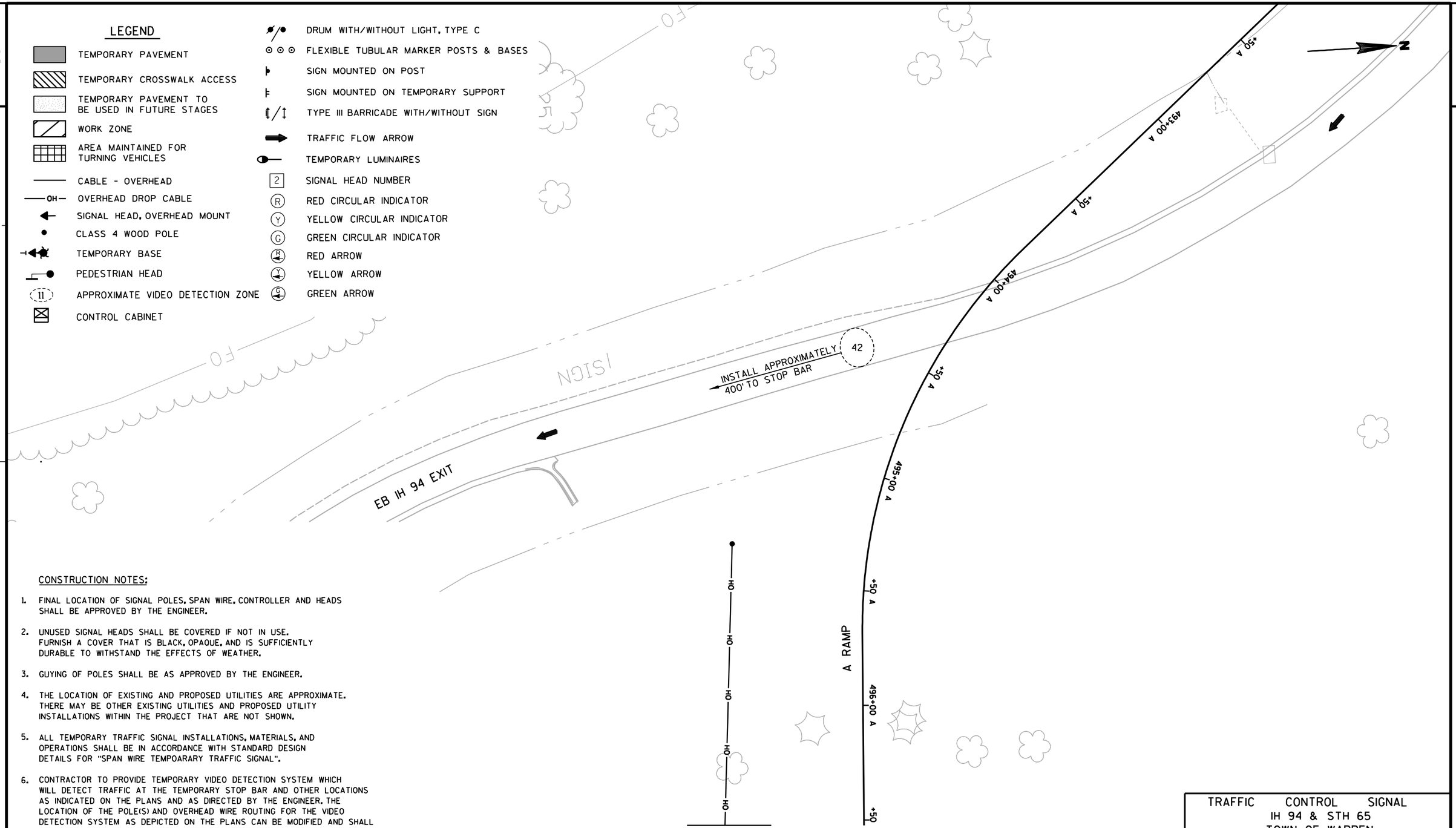
REGION CONTACT: GREG HELGESON
DESIGNED BY: STRAND ASSOC., INC.
REVISED BY:

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1A THRU 2A	SHEET 124 E

FILE NAME : s:\mad\1000--1099\1089\199\micros\plan\024001_sp.dgn PLOT DATE : 1/6/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

LEGEND

- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- CABLE - OVERHEAD
- OH — OVERHEAD DROP CABLE
- SIGNAL HEAD, OVERHEAD MOUNT
- CLASS 4 WOOD POLE
- TEMPORARY BASE
- PEDESTRIAN HEAD
- 11 APPROXIMATE VIDEO DETECTION ZONE
- CONTROL CABINET
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKER POSTS & BASES
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- TRAFFIC FLOW ARROW
- TEMPORARY LUMINAIRES
- 2 SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- Y YELLOW ARROW
- G GREEN ARROW



CONSTRUCTION NOTES:

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TRAFFIC CONTROL SIGNAL
IH 94 & STH 65
TOWN OF WARREN
ST. CROIX COUNTY

SIGNAL NO. TEMPORARY

REGION CONTACT: GREG HELGESON
DESIGNED BY: STRAND ASSOC., INC.
REVISED BY:

PAGE 2 OF 9

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1A THRU 2A	SHEET E

FILE NAME : s:\mad\1000--1099\1089\199\micros\plan\024002_sp.dgn PLOT DATE : 1/6/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

LEGEND

- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- CABLE - OVERHEAD
- OH — OVERHEAD DROP CABLE
- SIGNAL HEAD, OVERHEAD MOUNT
- CLASS 4 WOOD POLE
- TEMPORARY BASE
- PEDESTRIAN HEAD
- 11 APPROXIMATE VIDEO DETECTION ZONE
- CONTROL CABINET
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKER POSTS & BAS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- TRAFFIC FLOW ARROW
- TEMPORARY LUMINAIRES
- 2 SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- RA RED ARROW
- YA YELLOW ARROW
- GA GREEN ARROW

EB IH 94 EXIT

MATCH LINE
SEE TRAFFIC CONTROL
SIGNAL DETAIL,
SHEET 4 OF 9

41 G Y R 41

22 R Y G LA

23 R Y G LA

21 R Y G

61 INSTALL APPROXIMATELY 150' TO STOP BAR

19 G Y R

13 G Y R

52 G Y R

INSTALL APPROXIMATELY 150' TO STOP BAR

21

45+00

+50

43+00

41+00

42+00

+50

+50

+50

+50

46+00

498+00 A

499+00 B

STH 65

42 G Y R 42

43 G Y R 43

OH

FO

EB IH 94 ENTRANCE

USED DURING STAGE 3E AND STAGE 3F

CONSTRUCTION NOTES:

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TRAFFIC CONTROL SIGNAL
IH 94 & STH 65
TOWN OF WARREN
ST. CROIX COUNTY

SIGNAL NO. TEMPORARY

REGION CONTACT: GREG HELGESON
DESIGNED BY: STRAND ASSOC., INC.
REVISED BY:

PAGE 3 OF 9

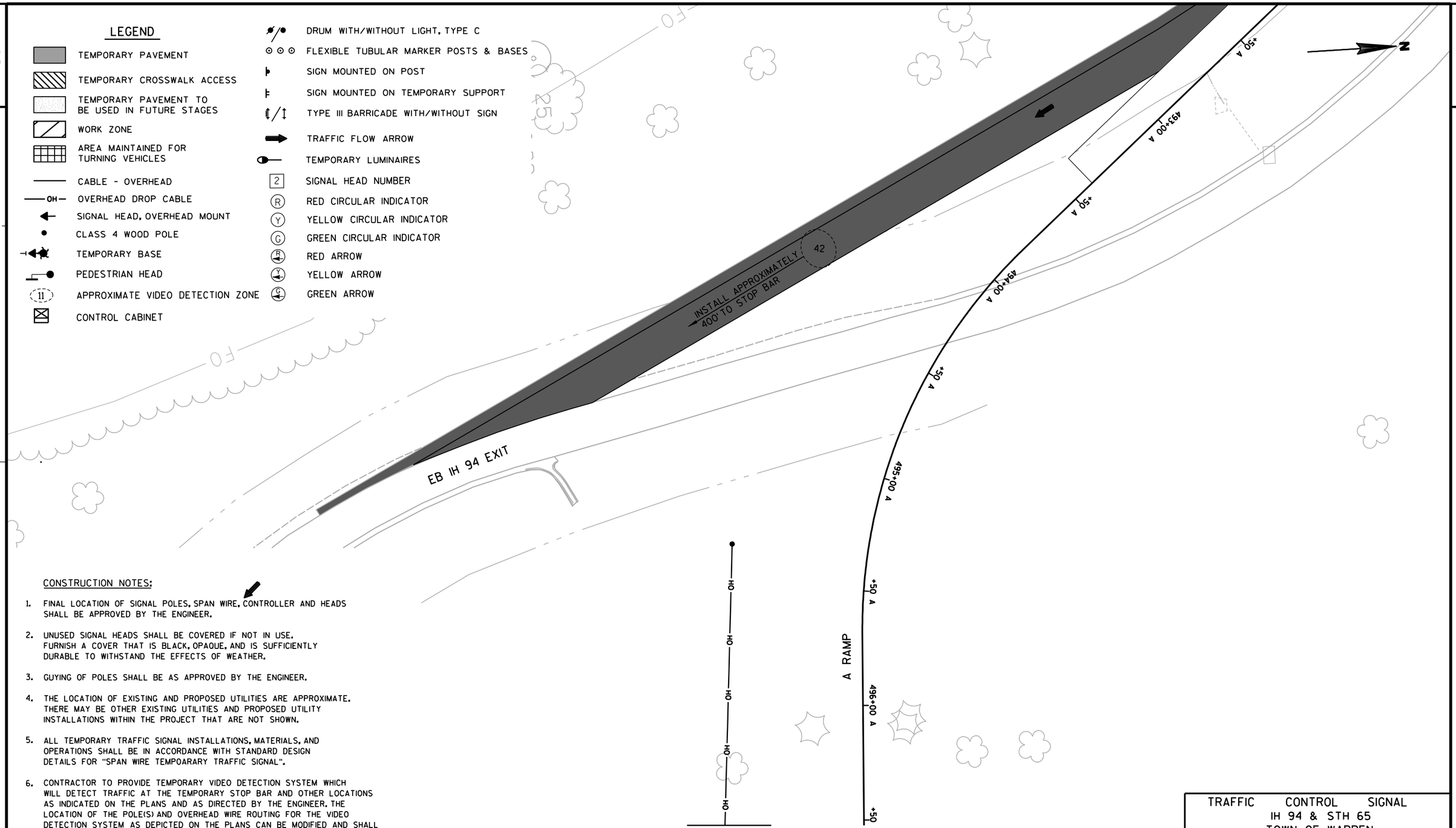
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2B THRU 3D	SHEET	E

FILE NAME : s:\mad\1000--1099\1089\199\micros\plan\024003_sp.dgn PLOT DATE : 1/6/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

LEGEND

- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- CABLE - OVERHEAD
- OH — OVERHEAD DROP CABLE
- SIGNAL HEAD, OVERHEAD MOUNT
- CLASS 4 WOOD POLE
- TEMPORARY BASE
- PEDESTRIAN HEAD
- 11 APPROXIMATE VIDEO DETECTION ZONE
- CONTROL CABINET
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKER POSTS & BASES
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- TRAFFIC FLOW ARROW
- TEMPORARY LUMINAIRES
- 2 SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- Y YELLOW ARROW
- G GREEN ARROW



CONSTRUCTION NOTES:

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MATCH LINE
SEE TRAFFIC CONTROL SIGNAL DETAIL, SHEET 3 OF 9

TRAFFIC CONTROL SIGNAL
IH 94 & STH 65
TOWN OF WARREN
ST. CROIX COUNTY

SIGNAL NO. TEMPORARY

REGION CONTACT: GREG HELGESON
DESIGNED BY: STRAND ASSOC., INC.
REVISED BY:

PAGE 4 OF 9

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2B THRU 3D	SHEET	E

FILE NAME : s:\mad\1000--1099\1089\199\micros\plan\024005_sp.dgn PLOT DATE : 1/6/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

2

N

LEGEND

- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- CABLE - OVERHEAD
- OH — OVERHEAD DROP CABLE
- SIGNAL HEAD, OVERHEAD MOUNT
- CLASS 4 WOOD POLE
- TEMPORARY BASE
- PEDESTRIAN HEAD
- 11 — APPROXIMATE VIDEO DETECTION ZONE
- CONTROL CABINET
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKER POSTS & BASES
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- TRAFFIC FLOW ARROW
- TEMPORARY LUMINAIRES
- 2 — SIGNAL HEAD NUMBER
- R — RED CIRCULAR INDICATOR
- Y — YELLOW CIRCULAR INDICATOR
- G — GREEN CIRCULAR INDICATOR
- R — RED ARROW
- Y — YELLOW ARROW
- G — GREEN ARROW

MATCH LINE
SEE TRAFFIC CONTROL SIGNAL DETAIL, SHEET 6 OF 9

CONSTRUCTION NOTES:

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A RAMP
B RAMP
STH 65
INSTALL APPROXIMATELY 150' TO STOP BAR
INSTALL APPROXIMATELY 150' TO STOP BAR
USED DURING STAGE 1A THRU STAGE 3D
41
61
21
22
23
62
63
42
43
44+00
45+00
46+00
47+00
48+00
49+00
498+00 A
499+00 B
500+00 B
+50 A
+50 B
OH
FO

STAGES 3 AND 4 SUMMARY (FOR INFORMATION ONLY)	
WOOD POLES, CLASS 4	2 EA.
GUY WIRES	4 EA.
OH WIRE	245 LF
CONTROLLER/CABINET	1 EA.
LUMINAIRES	4 EA.

TRAFFIC CONTROL SIGNAL
IH 94 & STH 65
TOWN OF WARREN
ST. CROIX COUNTY

SIGNAL NO. TEMPORARY

REGION CONTACT: GREG HELGESON
DESIGNED BY: STRAND ASSOC., INC.
REVISED BY:

PAGE 5 OF 9

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3E	SHEET	E

FILE NAME : s:\mad\1000--1099\1089\199\micros\plan\024006_sp.dgn PLOT DATE : 1/6/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

TEMPORARY PAVEMENT

TEMPORARY CROSSWALK ACCESS

TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES

WORK ZONE

AREA MAINTAINED FOR TURNING VEHICLES

CABLE - OVERHEAD

OH — OVERHEAD DROP CABLE

SIGNAL HEAD, OVERHEAD MOUNT

CLASS 4 WOOD POLE

TEMPORARY BASE

PEDESTRIAN HEAD

APPROXIMATE VIDEO DETECTION ZONE

CONTROL CABINET

FLEXIBLE TUBULAR MARKER POSTS & BASES

SIGN MOUNTED ON POST

SIGN MOUNTED ON TEMPORARY SUPPORT

TYPE III BARRICADE WITH/WITHOUT SIGN

TRAFFIC FLOW ARROW

TEMPORARY LUMINAIRES

2 SIGNAL HEAD NUMBER

R RED CIRCULAR INDICATOR

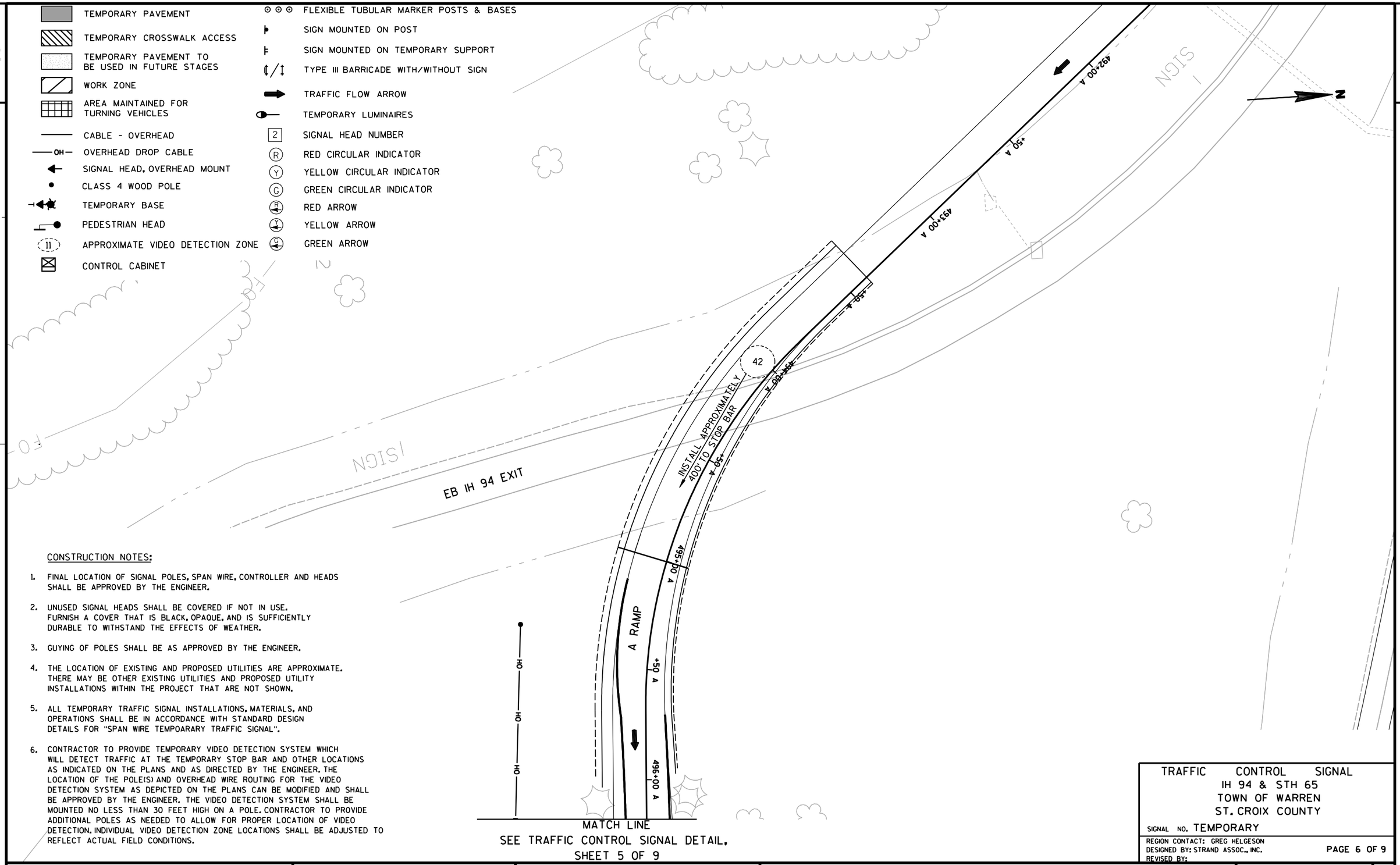
Y YELLOW CIRCULAR INDICATOR

G GREEN CIRCULAR INDICATOR

RED ARROW

YELLOW ARROW

GREEN ARROW



MATCH LINE
SEE TRAFFIC CONTROL SIGNAL DETAIL, SHEET 5 OF 9

CONSTRUCTION NOTES:

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TRAFFIC CONTROL SIGNAL
IH 94 & STH 65
TOWN OF WARREN
ST. CROIX COUNTY

SIGNAL NO. TEMPORARY

REGION CONTACT: GREG HELGESON
DESIGNED BY: STRAND ASSOC., INC.
REVISED BY:

PAGE 6 OF 9

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3E	SHEET 129	E

LEGEND

- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- CABLE - OVERHEAD
- OH — OVERHEAD DROP CABLE
- SIGNAL HEAD, OVERHEAD MOUNT
- CLASS 4 WOOD POLE
- TEMPORARY BASE
- PEDESTRIAN HEAD
- (11) APPROXIMATE VIDEO DETECTION ZONE
- CONTROL CABINET
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKER POSTS & BASES
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- TRAFFIC FLOW ARROW
- TEMPORARY LUMINAIRES
- 2 SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW

MATCH LINE
SEE TRAFFIC CONTROL SIGNAL DETAIL, SHEET 8 OF 9

A RAMP

B RAMP

STH 65

INSTALL APPROXIMATELY 150' TO STOP BAR

INSTALL APPROXIMATELY 150' TO STOP BAR

USED DURING STAGE 1A THRU STAGE 3D

CONSTRUCTION NOTES:

1. FINAL LOCATION OF SIGNAL POLES, SPAN WIRE, CONTROLLER AND HEADS SHALL BE APPROVED BY THE ENGINEER.
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3. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.
4. THE LOCATION OF EXISTING AND PROPOSED UTILITIES ARE APPROXIMATE. THERE MAY BE OTHER EXISTING UTILITIES AND PROPOSED UTILITY INSTALLATIONS WITHIN THE PROJECT THAT ARE NOT SHOWN.
5. ALL TEMPORARY TRAFFIC SIGNAL INSTALLATIONS, MATERIALS, AND OPERATIONS SHALL BE IN ACCORDANCE WITH STANDARD DESIGN DETAILS FOR "SPAN WIRE TEMPOARARY TRAFFIC SIGNAL".
6. CONTRACTOR TO PROVIDE TEMPORARY VIDEO DETECTION SYSTEM WHICH WILL DETECT TRAFFIC AT THE TEMPORARY STOP BAR AND OTHER LOCATIONS AS INDICATED ON THE PLANS AND AS DIRECTED BY THE ENGINEER. THE LOCATION OF THE POLE(S) AND OVERHEAD WIRE ROUTING FOR THE VIDEO DETECTION SYSTEM AS DEPICTED ON THE PLANS CAN BE MODIFIED AND SHALL BE APPROVED BY THE ENGINEER. THE VIDEO DETECTION SYSTEM SHALL BE MOUNTED NO LESS THAN 30 FEET HIGH ON A POLE. CONTRACTOR TO PROVIDE ADDITIONAL POLES AS NEEDED TO ALLOW FOR PROPER LOCATION OF VIDEO DETECTION. INDIVIDUAL VIDEO DETECTION ZONE LOCATIONS SHALL BE ADJUSTED TO REFLECT ACTUAL FIELD CONDITIONS.

TRAFFIC CONTROL SIGNAL
IH 94 & STH 65
TOWN OF WARREN
ST. CROIX COUNTY

SIGNAL NO. TEMPORARY

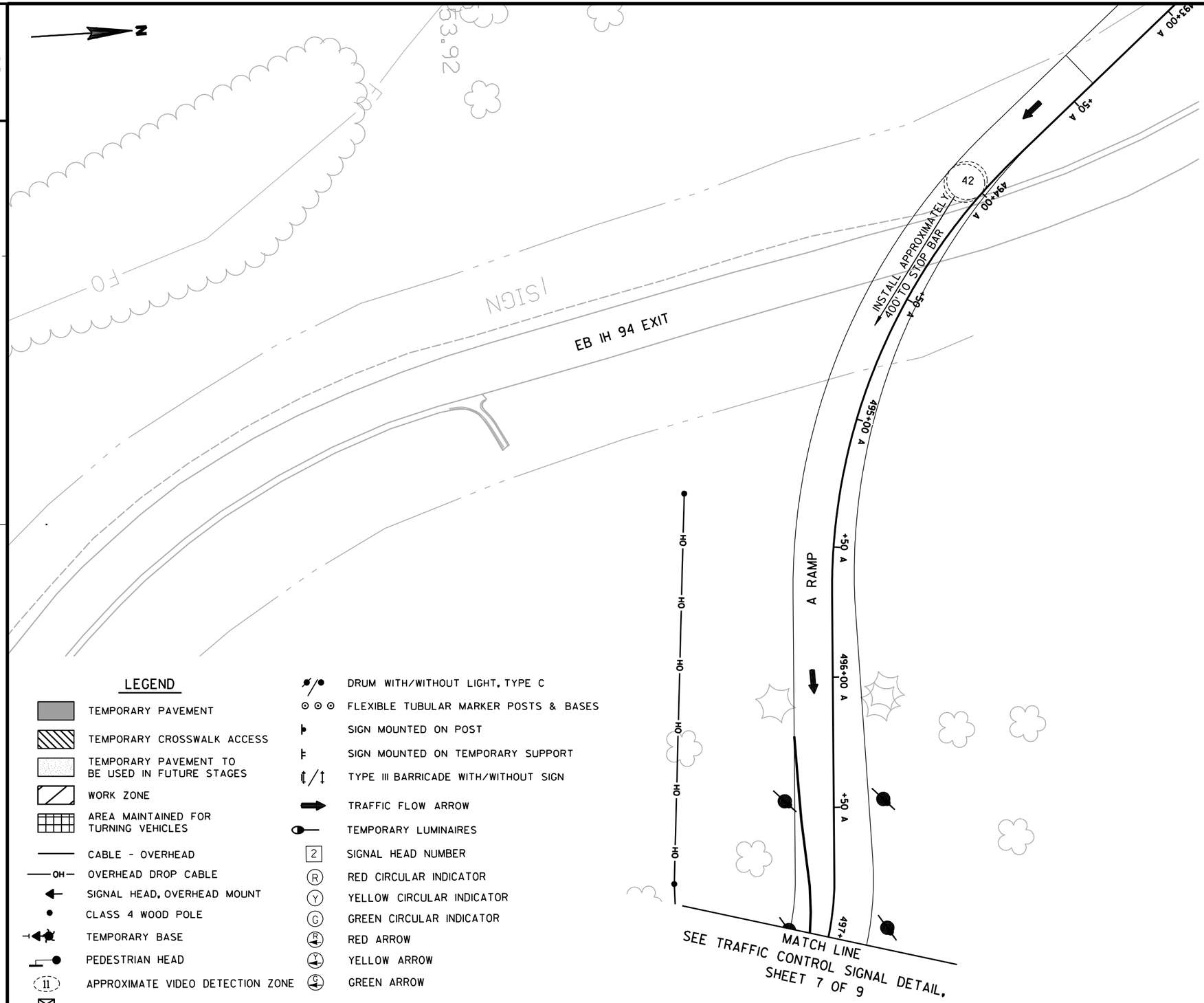
REGION CONTACT: GREG HELGESON
DESIGNED BY: STRAND ASSOC., INC.
REVISED BY:

PAGE 7 OF 9

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3F	SHEET E

FILE NAME : s:\mad\1000--1099\1089\199\micros\plan\024008_sp.dgn PLOT DATE : 1/6/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2



CONSTRUCTION NOTES:

1. FINAL LOCATION OF SIGNAL POLES, SPAN WIRE, CONTROLLER AND HEADS SHALL BE APPROVED BY THE ENGINEER.
2. UNUSED SIGNAL HEADS SHALL BE COVERED IF NOT IN USE. FURNISH A COVER THAT IS BLACK, OPAQUE, AND IS SUFFICIENTLY DURABLE TO WITHSTAND THE EFFECTS OF WEATHER.
3. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.
4. THE LOCATION OF EXISTING AND PROPOSED UTILITIES ARE APPROXIMATE. THERE MAY BE OTHER EXISTING UTILITIES AND PROPOSED UTILITY INSTALLATIONS WITHIN THE PROJECT THAT ARE NOT SHOWN.
5. ALL TEMPORARY TRAFFIC SIGNAL INSTALLATIONS, MATERIALS, AND OPERATIONS SHALL BE IN ACCORDANCE WITH STANDARD DESIGN DETAILS FOR "SPAN WIRE TEMPOARARY TRAFFIC SIGNAL".
6. CONTRACTOR TO PROVIDE TEMPORARY VIDEO DETECTION SYSTEM WHICH WILL DETECT TRAFFIC AT THE TEMPORARY STOP BAR AND OTHER LOCATIONS AS INDICATED ON THE PLANS AND AS DIRECTED BY THE ENGINEER. THE LOCATION OF THE POLE(S) AND OVERHEAD WIRE ROUTING FOR THE VIDEO DETECTION SYSTEM AS DEPICTED ON THE PLANS CAN BE MODIFIED AND SHALL BE APPROVED BY THE ENGINEER. THE VIDEO DETECTION SYSTEM SHALL BE MOUNTED NO LESS THAN 30 FEET HIGH ON A POLE. CONTRACTOR TO PROVIDE ADDITIONAL POLES AS NEEDED TO ALLOW FOR PROPER LOCATION OF VIDEO DETECTION. INDIVIDUAL VIDEO DETECTION ZONE LOCATIONS SHALL BE ADJUSTED TO REFLECT ACTUAL FIELD CONDITIONS.

LEGEND

- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- CABLE - OVERHEAD
- OH — OVERHEAD DROP CABLE
- SIGNAL HEAD, OVERHEAD MOUNT
- CLASS 4 WOOD POLE
- TEMPORARY BASE
- PEDESTRIAN HEAD
- 11 APPROXIMATE VIDEO DETECTION ZONE
- CONTROL CABINET
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKER POSTS & BASES
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- TRAFFIC FLOW ARROW
- TEMPORARY LUMINAIRES
- 2 SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- Y YELLOW ARROW
- G GREEN ARROW

TRAFFIC CONTROL SIGNAL
IH 94 & STH 65
TOWN OF WARREN
ST. CROIX COUNTY

SIGNAL NO. TEMPORARY

REGION CONTACT: GREG HELGESON
DESIGNED BY: STRAND ASSOC., INC.
REVISED BY:

PAGE 8 OF 9

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3F	SHEET 131	E

SEQUENCE OF OPERATION

RING 1

	HEAD NUMBERS	Ø1 R/W	Ø1 **	Ø1 CLEAR TO	Ø2 R/W	Ø2 **	Ø2 CLEAR TO	Ø3 R/W	Ø3 **	Ø3 CLEAR TO	Ø4 R/W	Ø4 **	Ø4 CLEAR TO	FLASH
		NOT USED	⇦		NOT USED	⇩								
Ø1														
Ø2	21,22,23				G	Y	R				R	R	R	R
Ø3														
Ø4	41,42,43				R	R	R				G	Y	R	R
Ø5	22,23				-	-	-				-	-	-	-
Ø6	61,62,63				R	R	R				R	R	R	R
Ø7														
Ø8														
Ø2P														
Ø4P														
Ø6P														
Ø8P														

RING 2

	HEAD NUMBERS	Ø5 R/W	Ø5 **	Ø5 CLEAR TO	Ø6 R/W	Ø6 **	Ø6 CLEAR TO	Ø7 R/W	Ø7 **	Ø7 CLEAR TO	Ø8 R/W	Ø8 **	Ø8 CLEAR TO
		⇩	⇨		NOT USED	NOT USED							
Ø1													
Ø2	21,22,23	R	R	R	R	R	R						
Ø3													
Ø4	41,42,43	R	R	R	R	R	R						
Ø5	22,23	G	Y	-	-	-	-						
Ø6	61,62,63	R	R	R	G	Y	R						
Ø7													
Ø8													
Ø2P													
Ø4P													
Ø6P													
Ø8P													

BARRIER

** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1)

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
Ø1		
Ø2	5 OR 6	4
Ø3		
Ø4		2,5,6
Ø5	2	4,6
Ø6	2	4,5
Ø7		
Ø8		

DETECTOR LOGIC

DETECTOR ZONE NUMBER	AMPLIFIER CHANNEL NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	CALLING DELAY
21	1	X			2	2	
41	2	X			4	4	
*42	2	X	X		4		X
61	3	X			6	6	

*QUEUE DETECTION PRE-EMPTION ONLY.

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1				
2	X	5	MIN.	X
3				
4	X		MIN.	X
5	X	2	MIN.	X
6	X	2	MIN.	X
7				
8				

OVERLAPS

O.L. "A" =
O.L. "B" =
O.L. "C" =
O.L. "D" =

NONE

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF INTERCONNECT COMMUNICATION	
NONE	X
TBC	
CLOSED LOOP TWISTED PAIR	
CLOSED LOOP FIBER OPTIC	
RADIO	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE BRAND:	
QUEUE DETECTION	X

QUEUE DETECTION PRE-EMPTION		
VEHICLE ACTUATION	PRE-EMPTED PHASES ON	PRE-EMPTION CHANNEL
*RAMP DETECTION ZONE	4	1

*WIRE AS SEPARATE PRE-EMTION CHANNEL.
NOTE: FULL CLEARANCE AND MINIMUM GREEN INTERVALS SHALL ALWAYS BE PROVIDED.

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 AT LEFT.)
3. IF ANY OPPOSING THRU PHASES ARE TIMING CONCURRENTLY, THEY SHALL TERMINATE TOGETHER DUE TO PERMISSIVE LEFT TURN CONFLICT.

IH 94 & STH 65
TOWN OF WARREN
ST. CROIX COUNT

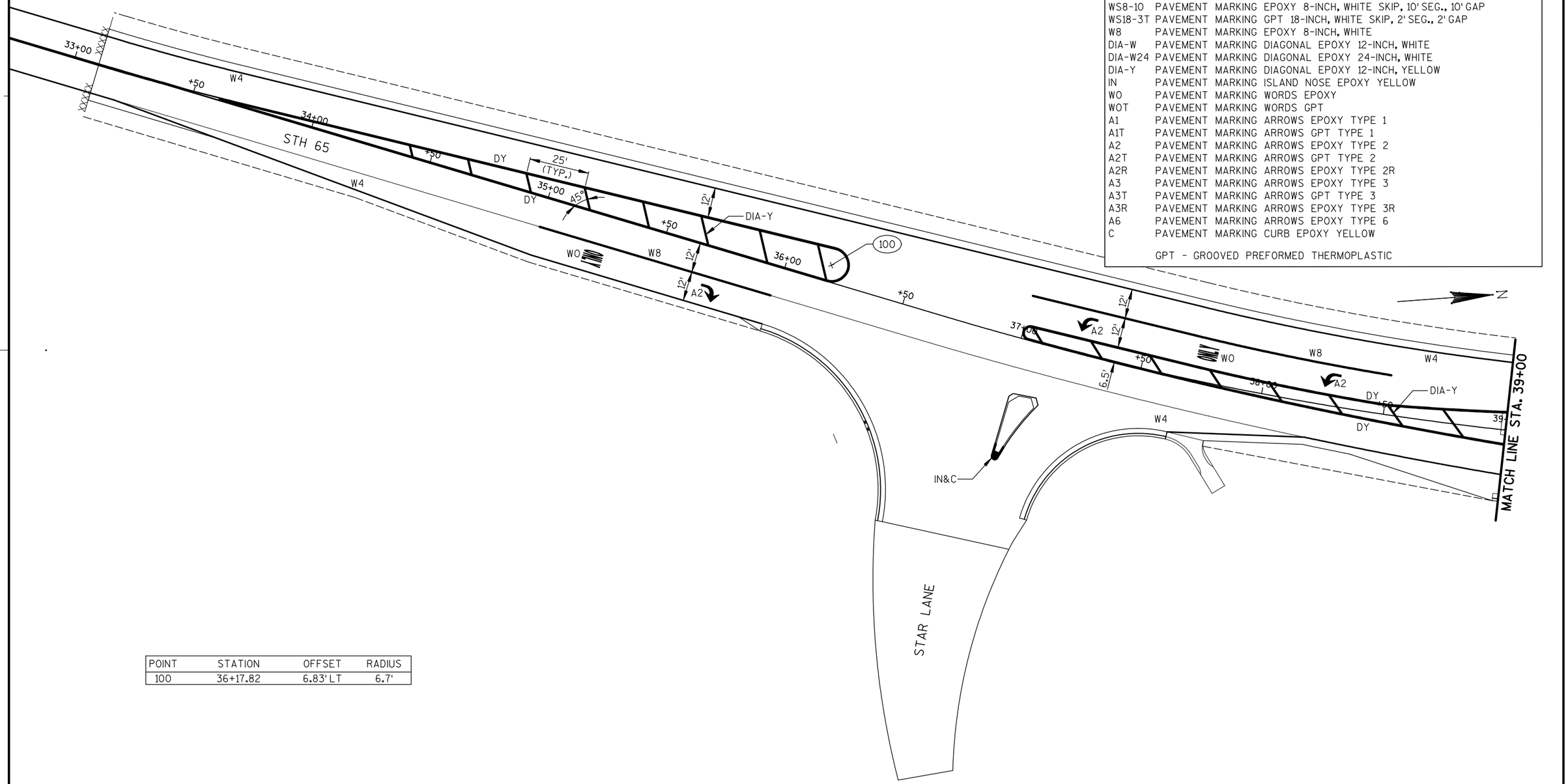
SIGNAL NO. TEMPORARY
CONTROLLER TYPE: EPAC
DATE MAY 2011
PAGE NO. 9 OF 9

FILE NAME : s:\mad\1000--1099\1089\199\micros\plan\024010_ph.dgn PLOT DATE : 1/6/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

LEGEND

W4	PAVEMENT MARKING EPOXY 4-INCH, WHITE
Y4	PAVEMENT MARKING EPOXY 4-INCH, YELLOW
DY	PAVEMENT MARKING EPOXY 4-INCH, DOUBLE YELLOW
WS	PAVEMENT MARKING EPOXY 4-INCH, WHITE LANE LINE, 12½' SEG., 37½' GAP
WS8-3T	PAVEMENT MARKING GPT 8-INCH, WHITE SKIP, 6' SEG., 3' GAP
WS-4T	PAVEMENT MARKING GPT 4-INCH, WHITE SKIP, 1' SEG., 4' GAP
WS-9	PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 3' SEG., 9' GAP
WS8-10	PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 10' SEG., 10' GAP
WS18-3T	PAVEMENT MARKING GPT 18-INCH, WHITE SKIP, 2' SEG., 2' GAP
W8	PAVEMENT MARKING EPOXY 8-INCH, WHITE
DIA-W	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, WHITE
DIA-W24	PAVEMENT MARKING DIAGONAL EPOXY 24-INCH, WHITE
DIA-Y	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, YELLOW
IN	PAVEMENT MARKING ISLAND NOSE EPOXY YELLOW
WO	PAVEMENT MARKING WORDS EPOXY
WOT	PAVEMENT MARKING WORDS GPT
A1	PAVEMENT MARKING ARROWS EPOXY TYPE 1
A1T	PAVEMENT MARKING ARROWS GPT TYPE 1
A2	PAVEMENT MARKING ARROWS EPOXY TYPE 2
A2T	PAVEMENT MARKING ARROWS GPT TYPE 2
A2R	PAVEMENT MARKING ARROWS EPOXY TYPE 2R
A3	PAVEMENT MARKING ARROWS EPOXY TYPE 3
A3T	PAVEMENT MARKING ARROWS GPT TYPE 3
A3R	PAVEMENT MARKING ARROWS EPOXY TYPE 3R
A6	PAVEMENT MARKING ARROWS EPOXY TYPE 6
C	PAVEMENT MARKING CURB EPOXY YELLOW
	GPT - GROOVED PREFORMED THERMOPLASTIC



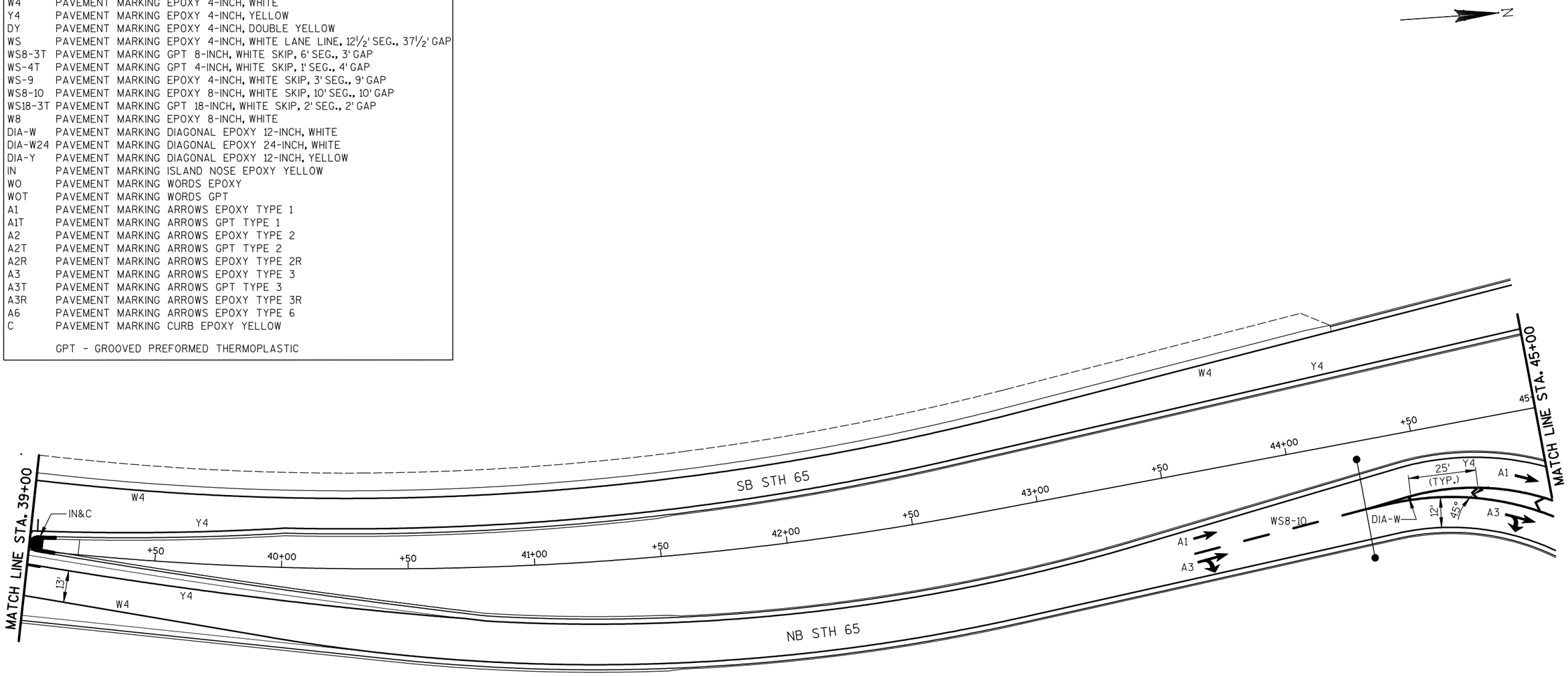
POINT	STATION	OFFSET	RADIUS
100	36+17.82	6.83' LT	6.7'

2

LEGEND

W4	PAVEMENT MARKING EPOXY 4-INCH, WHITE
Y4	PAVEMENT MARKING EPOXY 4-INCH, YELLOW
DY	PAVEMENT MARKING EPOXY 4-INCH, DOUBLE YELLOW
WS	PAVEMENT MARKING EPOXY 4-INCH, WHITE LANE LINE, 12½' SEG., 37½' GAP
WS8-3T	PAVEMENT MARKING GPT 8-INCH, WHITE SKIP, 6' SEG., 3' GAP
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WS18-3T	PAVEMENT MARKING GPT 18-INCH, WHITE SKIP, 2' SEG., 2' GAP
W8	PAVEMENT MARKING EPOXY 8-INCH, WHITE
DIA-W	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, WHITE
DIA-W24	PAVEMENT MARKING DIAGONAL EPOXY 24-INCH, WHITE
DIA-Y	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, YELLOW
IN	PAVEMENT MARKING ISLAND NOSE EPOXY YELLOW
WO	PAVEMENT MARKING WORDS EPOXY
WOT	PAVEMENT MARKING WORDS GPT
A1	PAVEMENT MARKING ARROWS EPOXY TYPE 1
A1T	PAVEMENT MARKING ARROWS GPT TYPE 1
A2	PAVEMENT MARKING ARROWS EPOXY TYPE 2
A2T	PAVEMENT MARKING ARROWS GPT TYPE 2
A2R	PAVEMENT MARKING ARROWS EPOXY TYPE 2R
A3	PAVEMENT MARKING ARROWS EPOXY TYPE 3
A3T	PAVEMENT MARKING ARROWS GPT TYPE 3
A3R	PAVEMENT MARKING ARROWS EPOXY TYPE 3R
A6	PAVEMENT MARKING ARROWS EPOXY TYPE 6
C	PAVEMENT MARKING CURB EPOXY YELLOW

GPT - GROOVED PREFORMED THERMOPLASTIC



LEGEND

W4	PAVEMENT MARKING EPOXY 4-INCH, WHITE
Y4	PAVEMENT MARKING EPOXY 4-INCH, YELLOW
DY	PAVEMENT MARKING EPOXY 4-INCH, DOUBLE YELLOW
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DIA-W	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, WHITE
DIA-W24	PAVEMENT MARKING DIAGONAL EPOXY 24-INCH, WHITE
DIA-Y	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, YELLOW
IN	PAVEMENT MARKING ISLAND NOSE EPOXY YELLOW
WO	PAVEMENT MARKING WORDS EPOXY
WOT	PAVEMENT MARKING WORDS GPT
A1	PAVEMENT MARKING ARROWS EPOXY TYPE 1
A1T	PAVEMENT MARKING ARROWS GPT TYPE 1
A2	PAVEMENT MARKING ARROWS EPOXY TYPE 2
A2T	PAVEMENT MARKING ARROWS GPT TYPE 2
A2R	PAVEMENT MARKING ARROWS EPOXY TYPE 2R
A3	PAVEMENT MARKING ARROWS EPOXY TYPE 3
A3T	PAVEMENT MARKING ARROWS GPT TYPE 3
A3R	PAVEMENT MARKING ARROWS EPOXY TYPE 3R
A6	PAVEMENT MARKING ARROWS EPOXY TYPE 6
C	PAVEMENT MARKING CURB EPOXY YELLOW

GPT - GROOVED PREFORMED THERMOPLASTIC

MATCH LINE STA. 497+00 A

MATCH LINE STA. 45+00

MATCH LINE STA. 51+00

EB IH 94

WB IH 94

SB STH 65

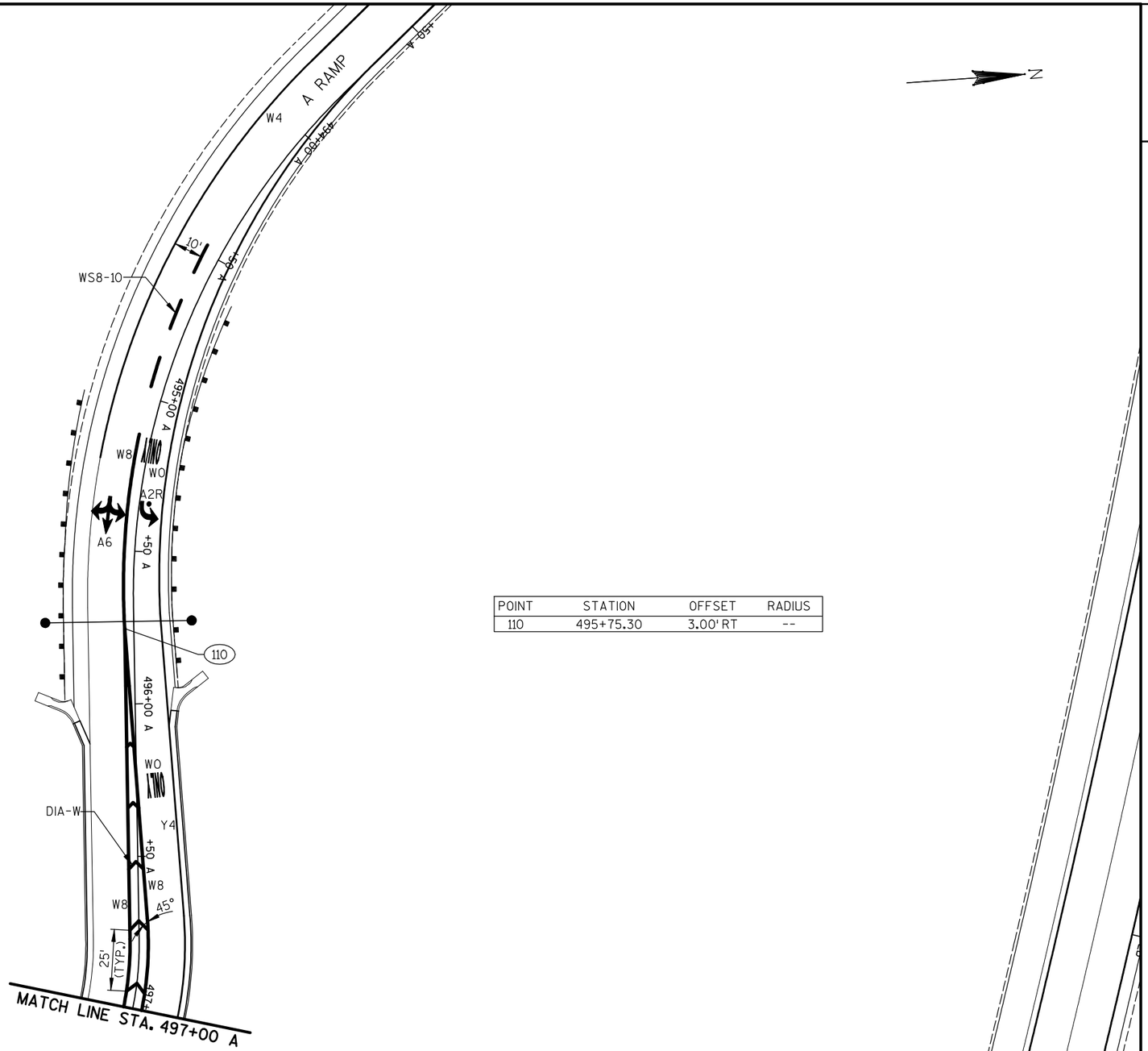
NB STH 65

B RAMP

N

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PAVEMENT MARKING	SHEET 135	E

2



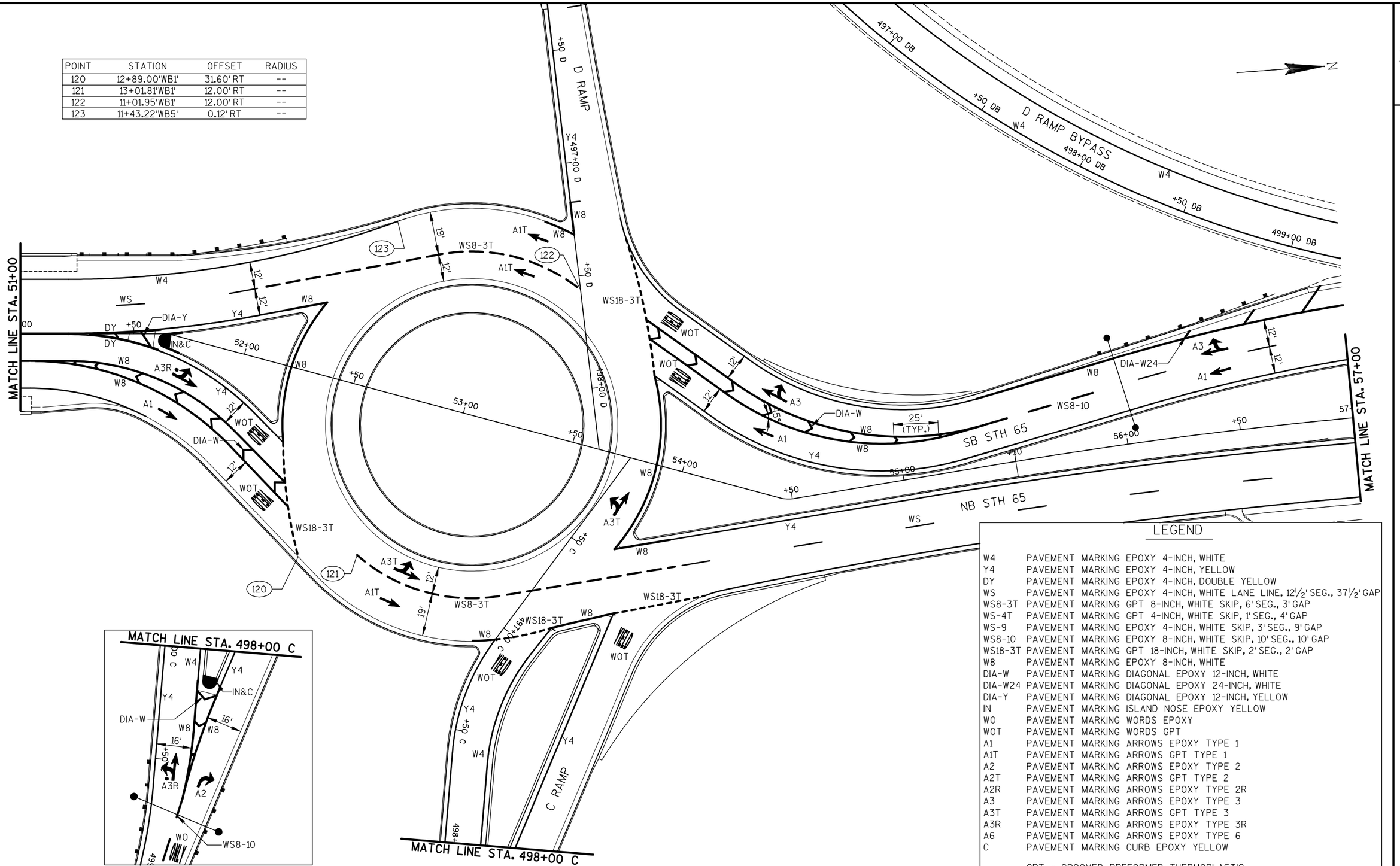
POINT	STATION	OFFSET	RADIUS
110	495+75.30	3.00' RT	--

LEGEND

W4	PAVEMENT MARKING EPOXY 4-INCH, WHITE
Y4	PAVEMENT MARKING EPOXY 4-INCH, YELLOW
DY	PAVEMENT MARKING EPOXY 4-INCH, DOUBLE YELLOW
WS	PAVEMENT MARKING EPOXY 4-INCH, WHITE LANE LINE, 12½' SEG., 37½' GAP
WS8-3T	PAVEMENT MARKING GPT 8-INCH, WHITE SKIP, 6' SEG., 3' GAP
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WS-9	PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 3' SEG., 9' GAP
WS8-10	PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 10' SEG., 10' GAP
WS18-3T	PAVEMENT MARKING GPT 18-INCH, WHITE SKIP, 2' SEG., 2' GAP
W8	PAVEMENT MARKING EPOXY 8-INCH, WHITE
DIA-W	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, WHITE
DIA-W24	PAVEMENT MARKING DIAGONAL EPOXY 24-INCH, WHITE
DIA-Y	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, YELLOW
IN	PAVEMENT MARKING ISLAND NOSE EPOXY YELLOW
WO	PAVEMENT MARKING WORDS EPOXY
WOT	PAVEMENT MARKING WORDS GPT
A1	PAVEMENT MARKING ARROWS EPOXY TYPE 1
A1T	PAVEMENT MARKING ARROWS GPT TYPE 1
A2	PAVEMENT MARKING ARROWS EPOXY TYPE 2
A2T	PAVEMENT MARKING ARROWS GPT TYPE 2
A2R	PAVEMENT MARKING ARROWS EPOXY TYPE 2R
A3	PAVEMENT MARKING ARROWS EPOXY TYPE 3
A3T	PAVEMENT MARKING ARROWS GPT TYPE 3
A3R	PAVEMENT MARKING ARROWS EPOXY TYPE 3R
A6	PAVEMENT MARKING ARROWS EPOXY TYPE 6
C	PAVEMENT MARKING CURB EPOXY YELLOW

GPT - GROOVED PREFORMED THERMOPLASTIC

POINT	STATION	OFFSET	RADIUS
120	12+89.00'WB1'	31.60' RT	--
121	13+01.81'WB1'	12.00' RT	--
122	11+01.95'WB1'	12.00' RT	--
123	11+43.22'WB5'	0.12' RT	--



LEGEND

W4	PAVEMENT MARKING EPOXY 4-INCH, WHITE
Y4	PAVEMENT MARKING EPOXY 4-INCH, YELLOW
DY	PAVEMENT MARKING EPOXY 4-INCH, DOUBLE YELLOW
WS	PAVEMENT MARKING EPOXY 4-INCH, WHITE LANE LINE, 12½' SEG., 37½' GAP
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DIA-W24	PAVEMENT MARKING DIAGONAL EPOXY 24-INCH, WHITE
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WOT	PAVEMENT MARKING WORDS GPT
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A1T	PAVEMENT MARKING ARROWS GPT TYPE 1
A2	PAVEMENT MARKING ARROWS EPOXY TYPE 2
A2T	PAVEMENT MARKING ARROWS GPT TYPE 2
A2R	PAVEMENT MARKING ARROWS EPOXY TYPE 2R
A3	PAVEMENT MARKING ARROWS EPOXY TYPE 3
A3T	PAVEMENT MARKING ARROWS GPT TYPE 3
A3R	PAVEMENT MARKING ARROWS EPOXY TYPE 3R
A6	PAVEMENT MARKING ARROWS EPOXY TYPE 6
C	PAVEMENT MARKING CURB EPOXY YELLOW

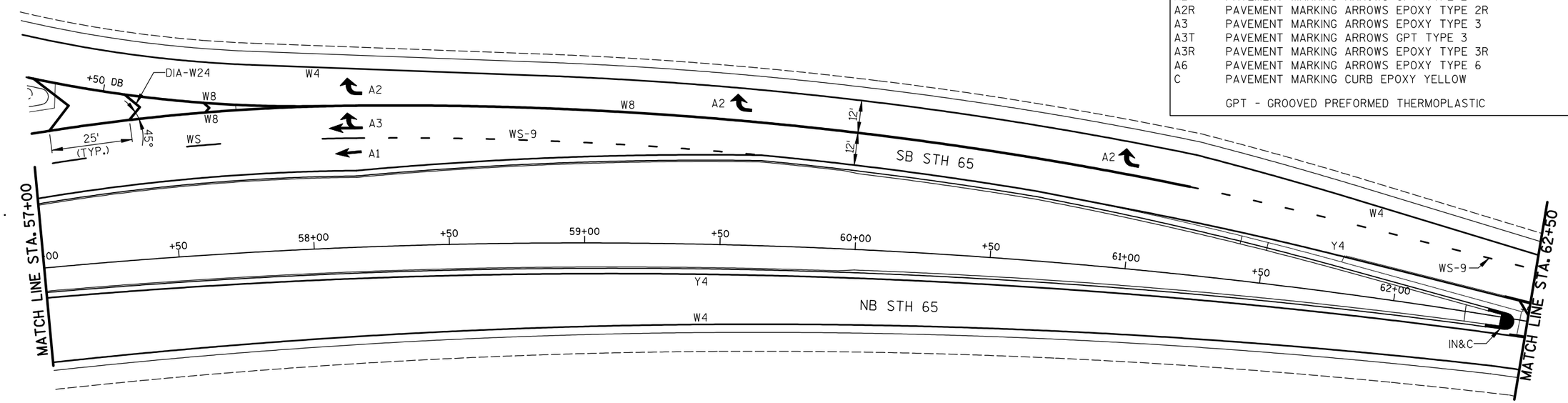
GPT - GROOVED PREFORMED THERMOPLASTIC

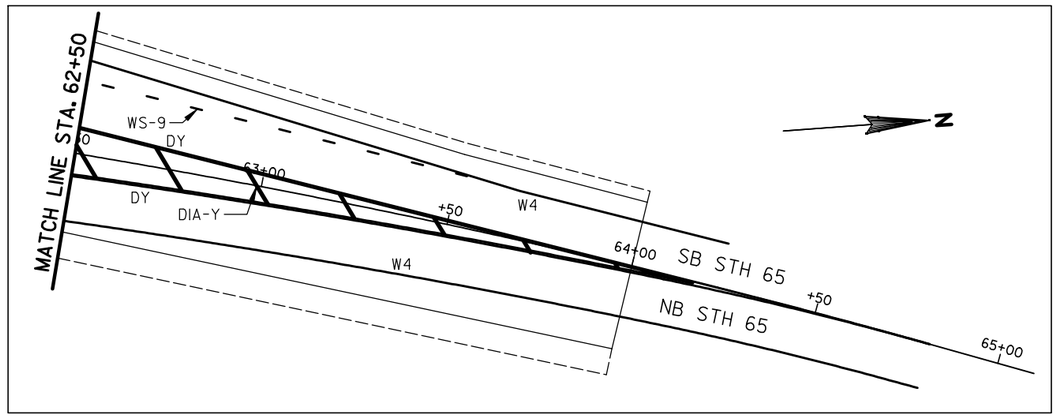
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PAVEMENT MARKING	SHEET 137	E

LEGEND

W4	PAVEMENT MARKING EPOXY 4-INCH, WHITE
Y4	PAVEMENT MARKING EPOXY 4-INCH, YELLOW
DY	PAVEMENT MARKING EPOXY 4-INCH, DOUBLE YELLOW
WS	PAVEMENT MARKING EPOXY 4-INCH, WHITE LANE LINE, 12½' SEG., 37½' GAP
WS8-3T	PAVEMENT MARKING GPT 8-INCH, WHITE SKIP, 6' SEG., 3' GAP
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WS18-3T	PAVEMENT MARKING GPT 18-INCH, WHITE SKIP, 2' SEG., 2' GAP
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DIA-W	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, WHITE
DIA-W24	PAVEMENT MARKING DIAGONAL EPOXY 24-INCH, WHITE
DIA-Y	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, YELLOW
IN	PAVEMENT MARKING ISLAND NOSE EPOXY YELLOW
WO	PAVEMENT MARKING WORDS EPOXY
WOT	PAVEMENT MARKING WORDS GPT
A1	PAVEMENT MARKING ARROWS EPOXY TYPE 1
A1T	PAVEMENT MARKING ARROWS GPT TYPE 1
A2	PAVEMENT MARKING ARROWS EPOXY TYPE 2
A2T	PAVEMENT MARKING ARROWS GPT TYPE 2
A2R	PAVEMENT MARKING ARROWS EPOXY TYPE 2R
A3	PAVEMENT MARKING ARROWS EPOXY TYPE 3
A3T	PAVEMENT MARKING ARROWS GPT TYPE 3
A3R	PAVEMENT MARKING ARROWS EPOXY TYPE 3R
A6	PAVEMENT MARKING ARROWS EPOXY TYPE 6
C	PAVEMENT MARKING CURB EPOXY YELLOW

GPT - GROOVED PREFORMED THERMOPLASTIC



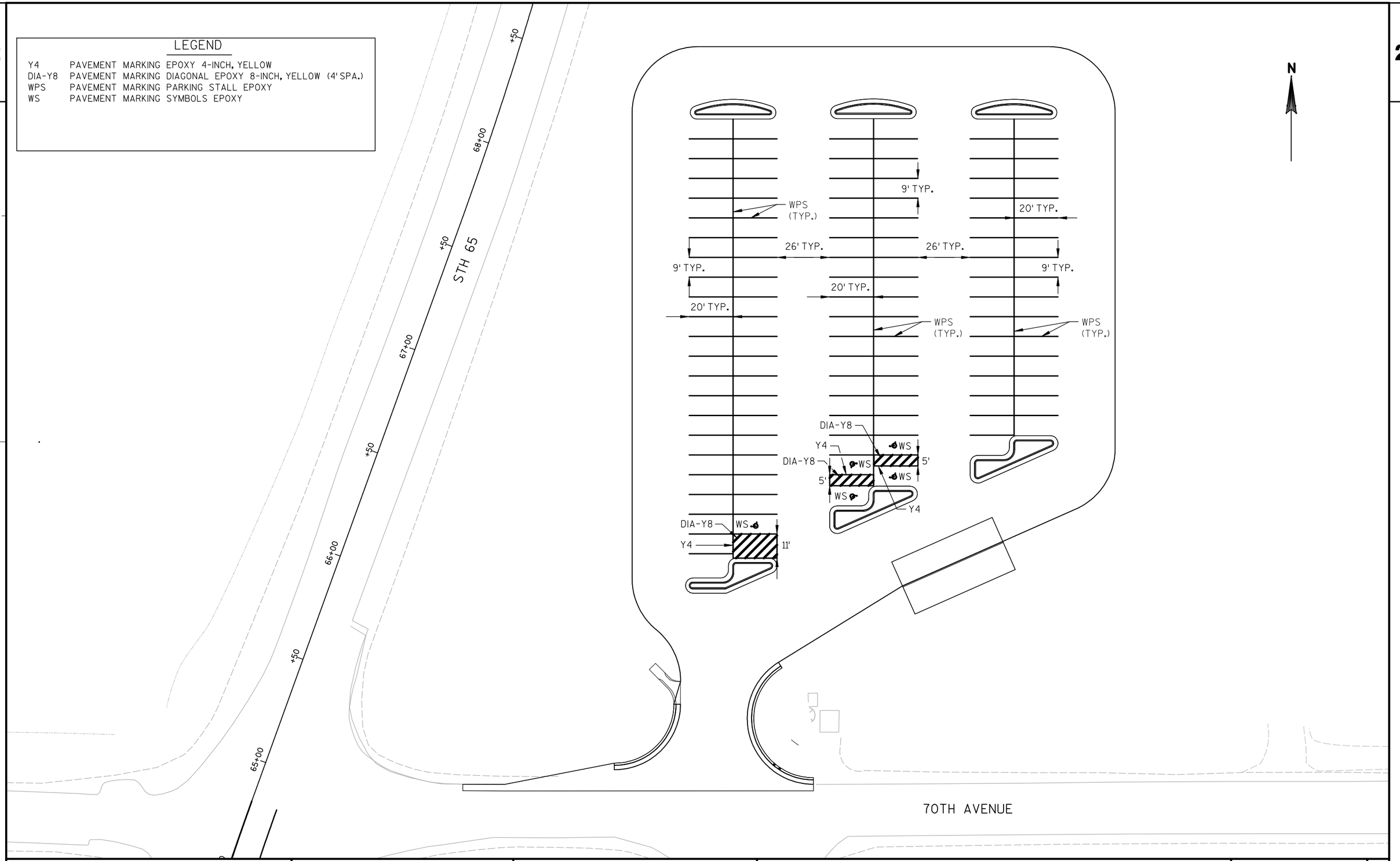


PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PAVEMENT MARKING	SHEET 138	E

2

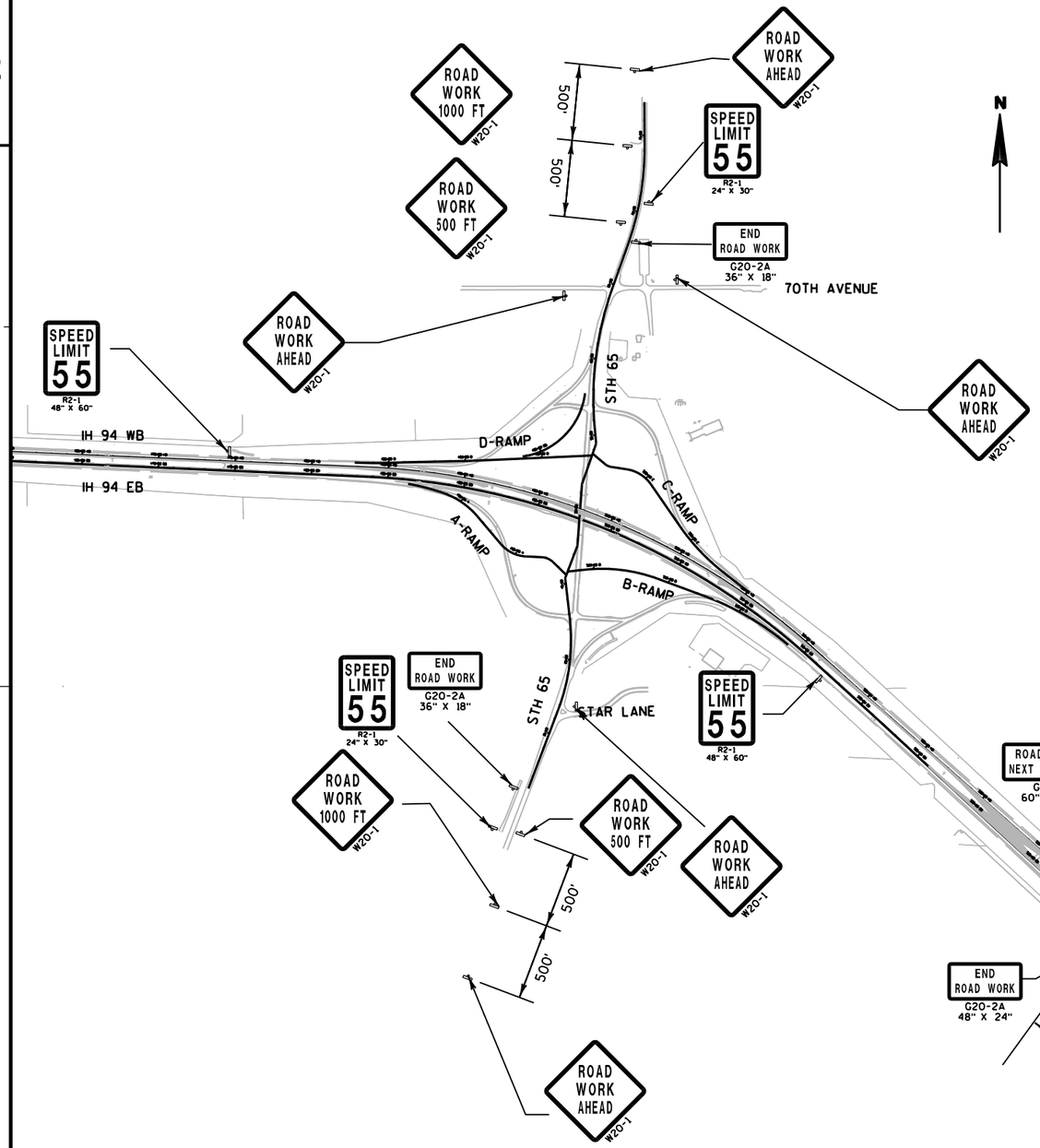
LEGEND

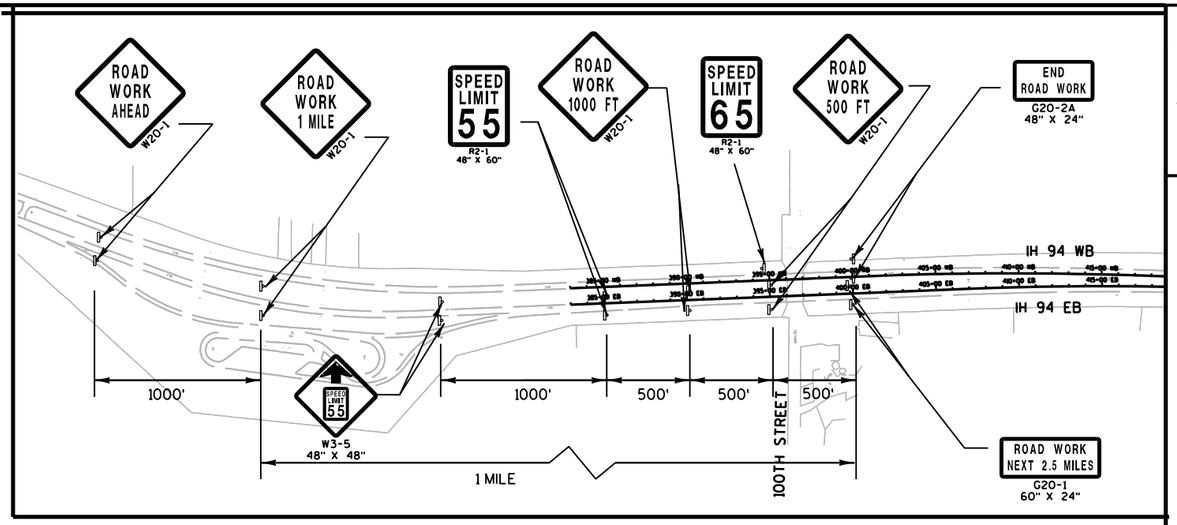
Y4	PAVEMENT MARKING EPOXY 4-INCH, YELLOW
DIA-Y8	PAVEMENT MARKING DIAGONAL EPOXY 8-INCH, YELLOW (4' SPA.)
WPS	PAVEMENT MARKING PARKING STALL EPOXY
WS	PAVEMENT MARKING SYMBOLS EPOXY



2

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PAVEMENT MARKING	SHEET 139	E





NOTE:
SEE SDD "TRAFFIC CONTROL, ADVANCED WARNING SIGNS, 45 MPH OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

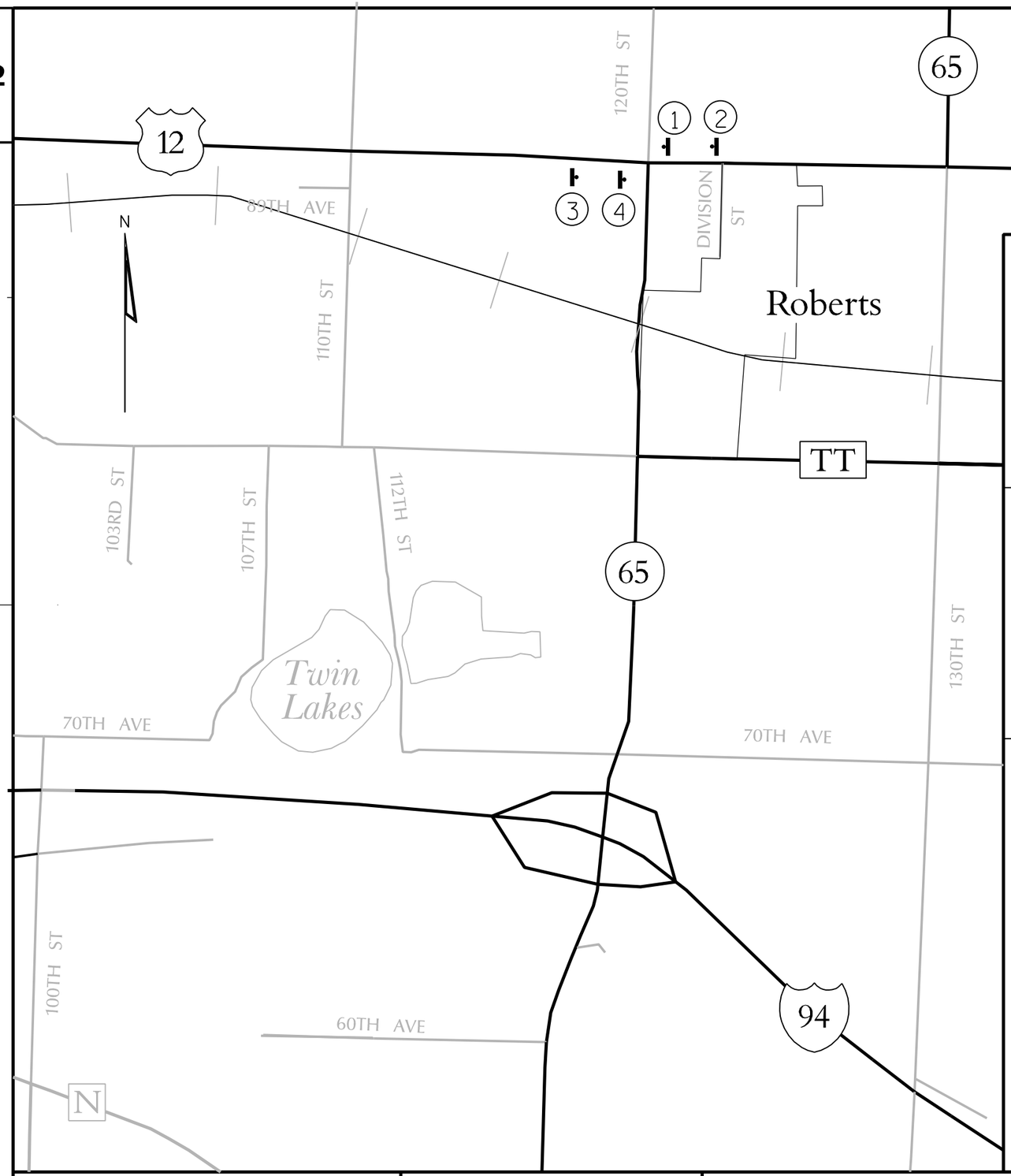
SEE SDD "TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H." FOR LANE CLOSURE ADVANCED SIGNING.

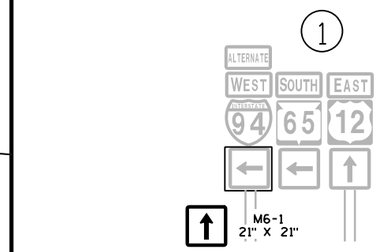
COVER EXISTING SPEED LIMIT SIGNS IN CONFLICT WITH PROPOSED TRAFFIC CONTROL SIGNS

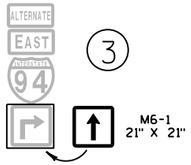
MESSAGE BOARDS TO BE LOCATED PRIOR TO ALTERNATE ROUTE EXIT AND AT LOCATION TO BE DETERMINED BY ENGINEER AT EACH PROJECT END

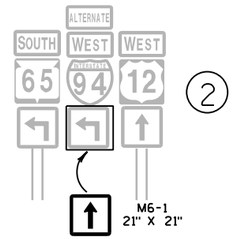
MESSAGE BOARD TO BE PLACED ON C-RAMP TO NOTIFY OF CLOSURE 10 CALENDAR DAYS IN ADVANCE

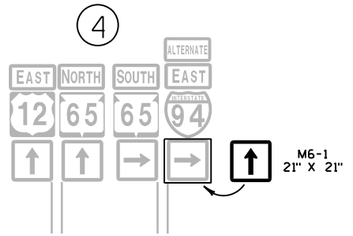
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - OVERVIEW	SHEET 140	E











NOTE:

SIGNS (1)(2)(3)(4) REQUIRE COVERING OF THE SHOWN ARROWS FOR INTERSTATE ALTERNATE ROUTE WITH STRAIGHT ARROWS AND ARE PAID AS TRAFFIC CONTROL, SIGNS.

SIGNS ARE TO REMAIN COVERED FOR THE DURATION OF THE PROJECT

ALTERNATE ROUTE TRAFFIC IS TO REMAIN ON USH 12 FOR THE DURATION OF THE PROJECT

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL- ALTERNATE ROUTE SIGNING	SHEET 141	E

2

TRAFFIC CONTROL - GENERAL NOTES;

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

FOR NIGHTTIME OPERATIONS, ALL DRUMS IN TAPERS SHALL HAVE A TYPE C WARNING LIGHT.
A FLAGGER MAY BE REQUIRED WHERE CONSTRUCTION VEHICLES ENTER OR LEAVE THE WORK AREAS IF WARRANTED BY CONDITIONS OR AS DIRECTED BY THE ENGINEER. HOWEVER, CONTRACTORS SHALL NOT USE FLAG PERSONS TO DIRECT, STOP, OR CONTROL TRAFFIC ON IH 94 AT ANY TIME.

FLAGGING ON RAMPS SHALL OCCUR WITHIN 200' OF STH 65 UNLESS OTHERWISE ALLOWED BY THE ENGINEER IN THE FIELD.

ALL TYPE III BARRICADES SHALL BE 8-FOOT WIDE, UNLESS OTHERWISE NOTED, AND EQUIPPED WITH TWO TYPE A LIGHTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. REMOVING/REPLACING OR COVERING/UNCOVERING SIGNS WILL BE INCIDENTAL TO OTHER TRAFFIC CONTROL ITEMS UNLESS OTHERWISE ACCOUNTED FOR IN PLAN.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS, ARROW BOARDS AND SIGN MESSAGE BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS, SIGN MESSAGE BOARDS, AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF THE DRUMS.

THE LANE CLOSURE SERIES SHALL BE INSTALLED AS A COMPLETE UNIT WHICH INCLUDES ALL ADVANCE WARNING SIGNING, DRUMS, BARRICADES AND ARROW BOARDS.

LANE CLOSURE DURATIONS, LENGTHS, AND LOCATIONS WILL BE BASED ON THE CONTRACTORS SCHEDULE OF OPERATIONS, AS APPROVED BY THE ENGINEER. ANY ADDITIONAL CLOSURES REQUIRED, DUE TO CONTRACTOR'S OPERATIONS WILL BE PAID UNDER CONTRACT TRAFFIC CONTROL BID ITEMS.

PORTABLE MESSAGE BOARDS ARE TO BE MAINTAINED, AND SHOULD BE CHANGED AS DIRECTED BY THE ENGINEER. LOCATIONS OF PORTABLE MESSAGE BOARDS ARE AS DIRECTED IN THE PLANS AND AS REQUIRED DUE TO THE CONTRACTOR'S OPERATIONS.

PAVEMENT MARKING NOT APPROPRIATE TO THE TRAVEL PATH SHALL BE REMOVED.

ALL TRAFFIC CONTROL SIGNING SHALL CONFORM TO: PART VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THE WISCONSIN SUPPLEMENT TO THE MUTCD, AND OTHER CONTRACT DOCUMENTS.

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"SHALL BE ANCHORED IF:
THE DISTANCE TO A 2 FOOT OR GREATER DROPOFF THAT IS STEEPER THEN 3H:1V, FOR EXAMPLE THE EDGE OF A BRIDGE DECK OR A DROPOFF AT THE EDGE OF PAVEMENT, IS LESS THAN 4 FEET FROM THE SIDE OF THE BARRIER CLOSEST TO THE DROPOFF AND THE POSTED SPEED IS 45 MPH OR GREATER.

ONLY ONE LANE OF IH 94 IS TO BE CLOSED AT A TIME IN EACH DIRECTION.

CONTRACTORS EQUIPMENT AND MATERIAL STOCKPILES MAY NOT BE STORED WITHIN THE 34 FEET OF IH 94 OR 20 FEET OF IH 94 RAMPS AT ANY TIME, UNLESS THEY ARE PROTECTED BY CONCRETE BARRIER TEMPORARY PRECAST, OR AN APPROVED LANE CLOSURE.

THE TURNING OF TRAFFIC CONTROL DEVICES WHEN NOT IN USE TO OBSCURE THE MESSAGE WILL NOT BE ALLOWED.

TRAFFIC CONTROL - GENERAL NOTES (CONTINUED);

RESTRICT WORK ON IH 94 AND IH 94 RAMPS WITHIN CLOSED SHOULDERS OR CLOSED LANES AS ALLOWED BY THE PLANS OR ENGINEER.

SINGLE LANE CLOSURES WILL BE ALLOWED ON IH 94 AS PERMITTED IN THE CONTRACT DOCUMENTS. REFER TO THE CONTRACT SPECIAL PROVISIONS FOR ADDITIONAL LANE AND RAMP CLOSURE REQUIREMENTS.

PROVIDE AND UTILIZE TEMPORARY ACCESS ROADS AND RAMPS TO ACCESS THE WORK ZONES. CONSTRUCTION OF TEMPORARY ACCESS ROADS SHALL BE INCIDENTAL TO OTHER ITEMS OF WORK.

ACCESS INTO THE WORK ZONES FROM IH 94 WILL ONLY BE ALLOWED DURING THE HOURS WHEN IH 94 CAN BE REDUCED TO ONE LANE, SUBJECT TO THE APPROVAL OF THE ENGINEER.

EXITING FROM THE WORK ZONE ONTO IH 94 WILL ONLY BE ALLOWED USING A LANE CLOSURE AND CONSTRUCTION TRAFFIC MUST RUN OUT OF THE CLOSED LANE.

CONSTRUCTION TRAFFIC CANNOT TRAVEL COUNTER-DIRECTIONAL ADJACENT TO IH 94 TRAFFIC, EXCEPT BEHIND TEMPORARY CONCRETE BARRIER PRECAST.

OBTAIN PRIOR APPROVAL FROM THE ENGINEER FOR THE LOCATION OF EGRESS AND INGRESS FOR CONSTRUCTION VEHICLES TO PROSECUTE THE WORK.

COORDINATE WITH ADJACENT PROJECTS PRIOR TO INSTALLING OR MOVING TRAFFIC CONTROL DEVICES.

SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS" FOR TRAFFIC CONTROL WHERE FLAGGING IS REQUIRED ON STH 65.

SEE SDD "TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 MPH" FOR LANE CLOSURES REQUIRED ON IH 94.

SEE SDD "TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH" FOR REQUIRED SHOULDER CLOSURE SIGN PLACEMENTS DRUM SPACING AND TAPER REQUIREMENTS.

SEE SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC" AND TRAFFIC CONTROL OVERVIEW SHEETS FOR PLACEMENT OF ADVANCED WARNING SIGNS.

2

2

TRAFFIC

IH 94

IH 94 EB TRAFFIC TO REMAIN ON EXISTING EB MAINLINE.

IH 94 WB TRAFFIC TO REMAIN ON EXISTING WB MAINLINE.

IH 94/STH 65 EB RAMP TRAFFIC TO REMAIN ON THE EXISTING RAMPS.

IH 94/STH 65 WB RAMP TRAFFIC TO REMAIN ON THE EXISTING RAMPS.

STH 65

STH 65 TRAFFIC TO REMAIN ON EXISTING MAINLINE.

IH 94/STH 65 EB RAMP TRAFFIC TO REMAIN AT THE EXISTING RAMP INTERSECTION.

IH 94/STH 65 WB RAMP TRAFFIC TO REMAIN AT THE EXISTING RAMP INTERSECTION.

CONSTRUCTION

IH 94

PLACE CONCRETE BARRIER TEMPORARY PRECAST ON IH 94

COMPLETE STAGE 1A MAINLINE WIDENING
IH 94 WB LT STA 402+00WB - STA 484+68WB AND

COMPLETE STAGE 1A TEMPORARY WB ENTRANCE
D1-RAMP LT STA 484+68D1 - STA 492+50D1

COMPLETE GRADING FOR STAGE 1A MAINLINE WIDENING IH 94 WB LT
STA 486+00WB - STA 508+50WB AND STA 509+00WB - 513+00WB

COMPLETE GRADING FOR C1 RAMP STA 513+90C1 - STA 526+50C1

STH 65

COMPLETE STAGE 1A (WEST HALF) OF STRUCTURE B-55-0249

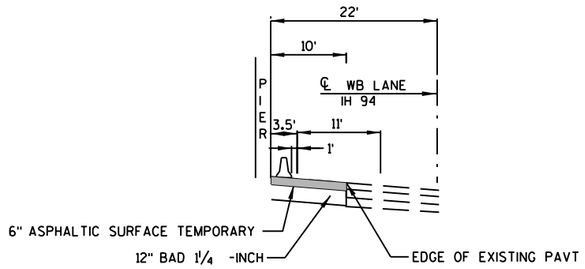
COMPLETE THE STAGE 1A STH 65 ROUNDABOUTS STA 45+35S RT - STA 48+60S LT
AND STA 50+75S LT - STA 53+65S LT

COMPLETE THE STAGE 1A TEMPORARY PAVEMENT
STH 65 LT STA 27+60S - STA 48+60S AND STA 50+75S - STA 64+35S

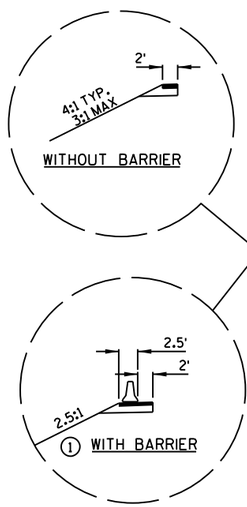
COMPLETE A-RAMP STA 497+00A - STA 498+75A

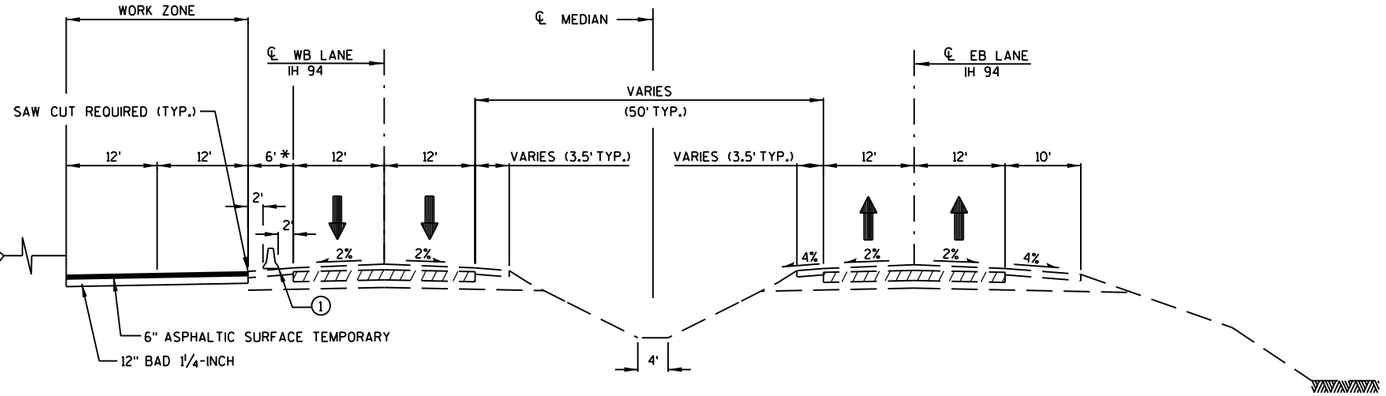
COMPLETE D-RAMP STA 496+50D - STA 497+70D

2



1A TYPICAL SECTION UNDER STH 65





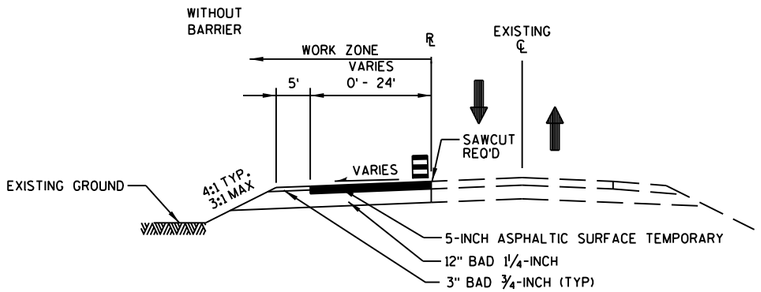
CONSTRUCTION STAGE 1A TYPICAL SECTION

411+50 - 525+00

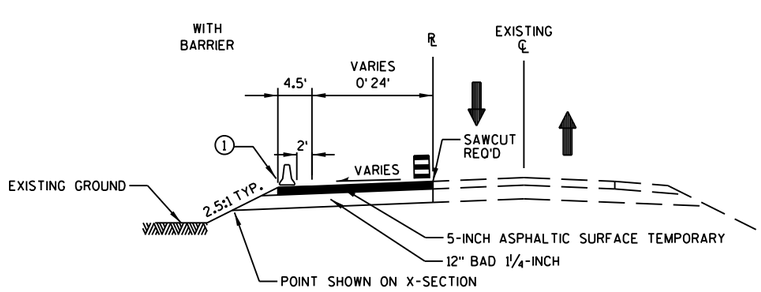
NOTES:

① ALL CONCRETE BARRIER TEMPORARY PRECAST TO BE PLACED AT LOCATIONS SHOWN IN TRAFFIC CONTROL STAGING PLAN

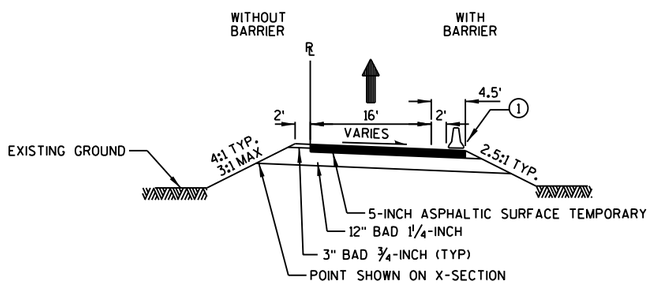
* REPLACE ENTIRE OUTSIDE WB SHOULDER WITH TEMP. PAVEMENT FROM 491+20 TO 506+05 WB



STH 65 TEMPORARY TYPICAL SECTION



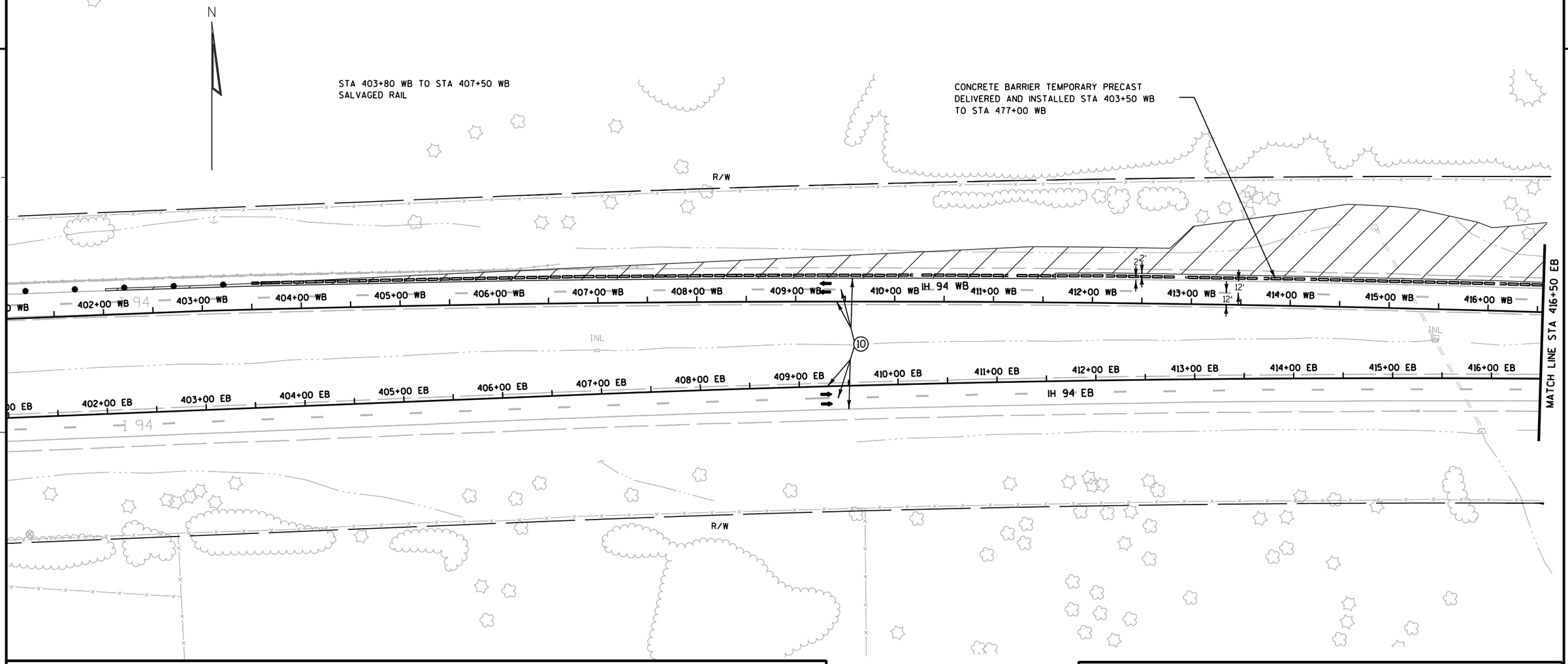
STH 65 TEMPORARY TYPICAL SECTION



TEMPORARY RAMP TYPICAL SECTION

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 1A TYPICAL SECTIONS	SHEET 143	E

2



TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	∿∿	TEMPORARY SHORING
⇕	TYPE III BARRICADE WTH ATTACHED SIGN	▭▭▭	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▭▭▭	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
◉	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⇉	FLASHING ARROW BOARD	▩	ASPHALTIC SURFACE TEMPORARY
⊦	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▽	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

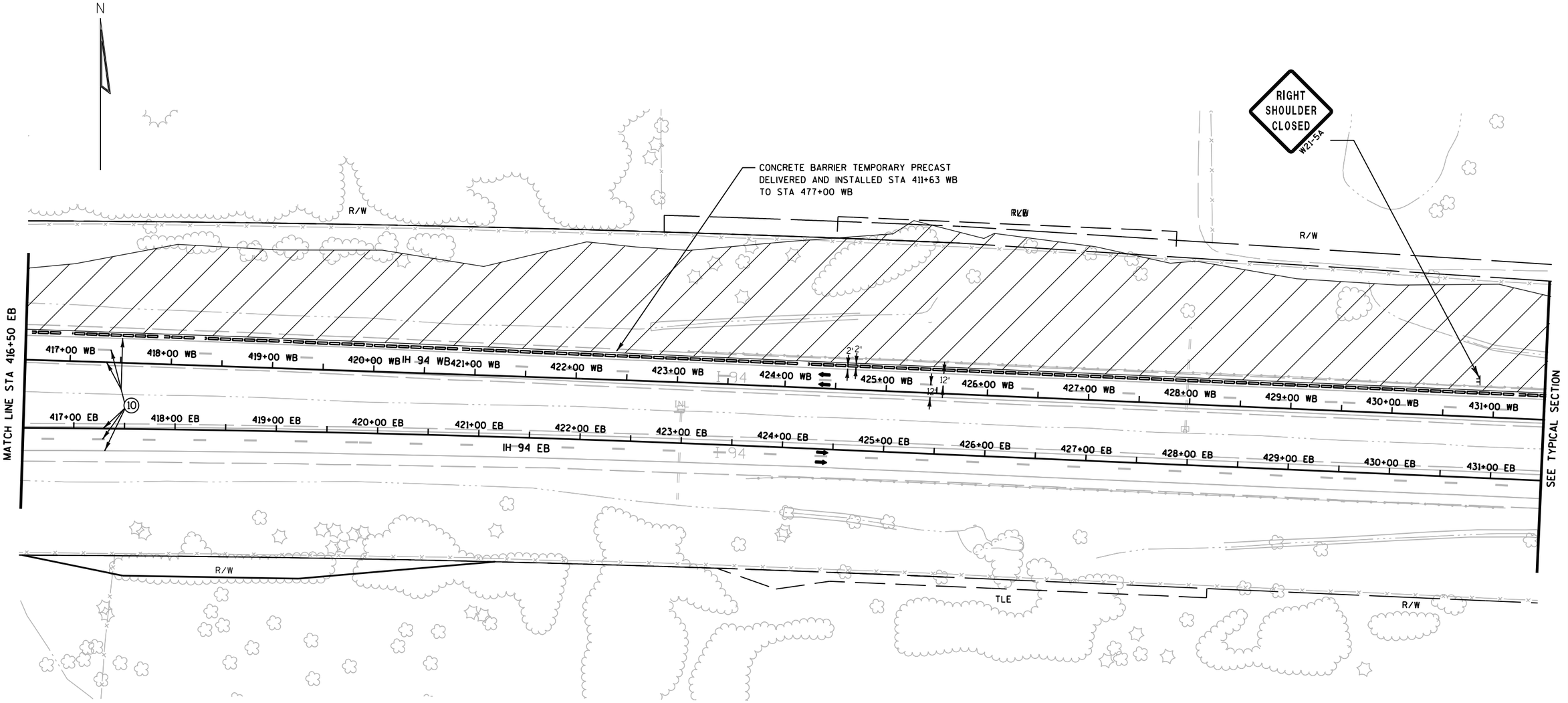
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN
11. TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 1A (SHEET 1 OF 6)	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025001_tc_stage1A.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :



TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	∿∿∿	TEMPORARY SHORING
↕	TYPE III BARRICADE WTH ATTACHED SIGN	▰▰▰	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▱▱▱	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
◢	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⇶	FLASHING ARROW BOARD	▩	ASPHALTIC SURFACE TEMPORARY
⊦	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
⍫	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⍑	DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

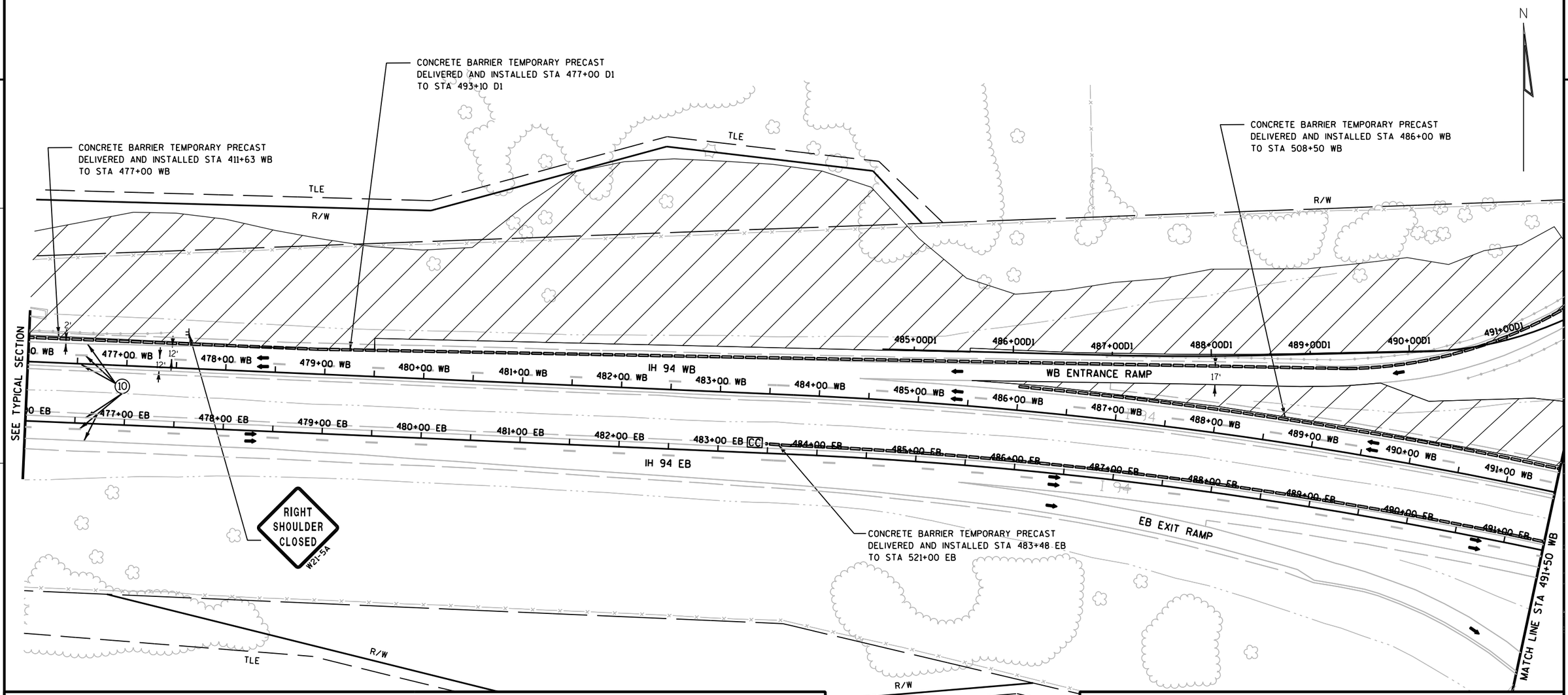
PAVEMENT MARKING LEGEND

(1)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
(2)	TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
(3)	TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
(4)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(5)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
(6)	TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
(7)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
(8)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
(9)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(10)	EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 1A (SHEET 2 OF 6)	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025002_tc_stage1A.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

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TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	∿∿∿	TEMPORARY SHORING
⇕	TYPE III BARRICADE WTH ATTACHED SIGN	▭▭▭	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▭▭▭	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
◢	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⇶	FLASHING ARROW BOARD	▨	ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▯	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 1A (SHEET 3 OF 6)	SHEET 146	E

TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

SEE STH 65 TRAFFIC CONTROL PLAN FOR STH 65 TRAFFIC CONTROL ITEMS

RIGHT SHOULDER CLOSED W21-5A

WB ENTRANCE RAMP

EB EXIT RAMP

EB ENTRANCE RAMP

IH 94 WB

IH 94 EB

STH 65

MATCH LINE STA 491+50 WB

MATCH LINE STA 506+50 WB

CONCRETE BARRIER TEMPORARY PRECAST DELIVERED AND INSTALLED STA 483+48 EB TO STA 521+00 EB

STAGE 1A TEMPORARY SHORING STA. 497+24 WB - 497+94 WB, 61' RT

CONCRETE BARRIER TEMPORARY PRECAST DELIVERED AND INSTALLED STA 495+75 WB TO STA 500+47 WB

CONCRETE BARRIER TEMPORARY PRECAST DELIVERED AND INSTALLED STA 486+00 WB TO STA 508+50 WB

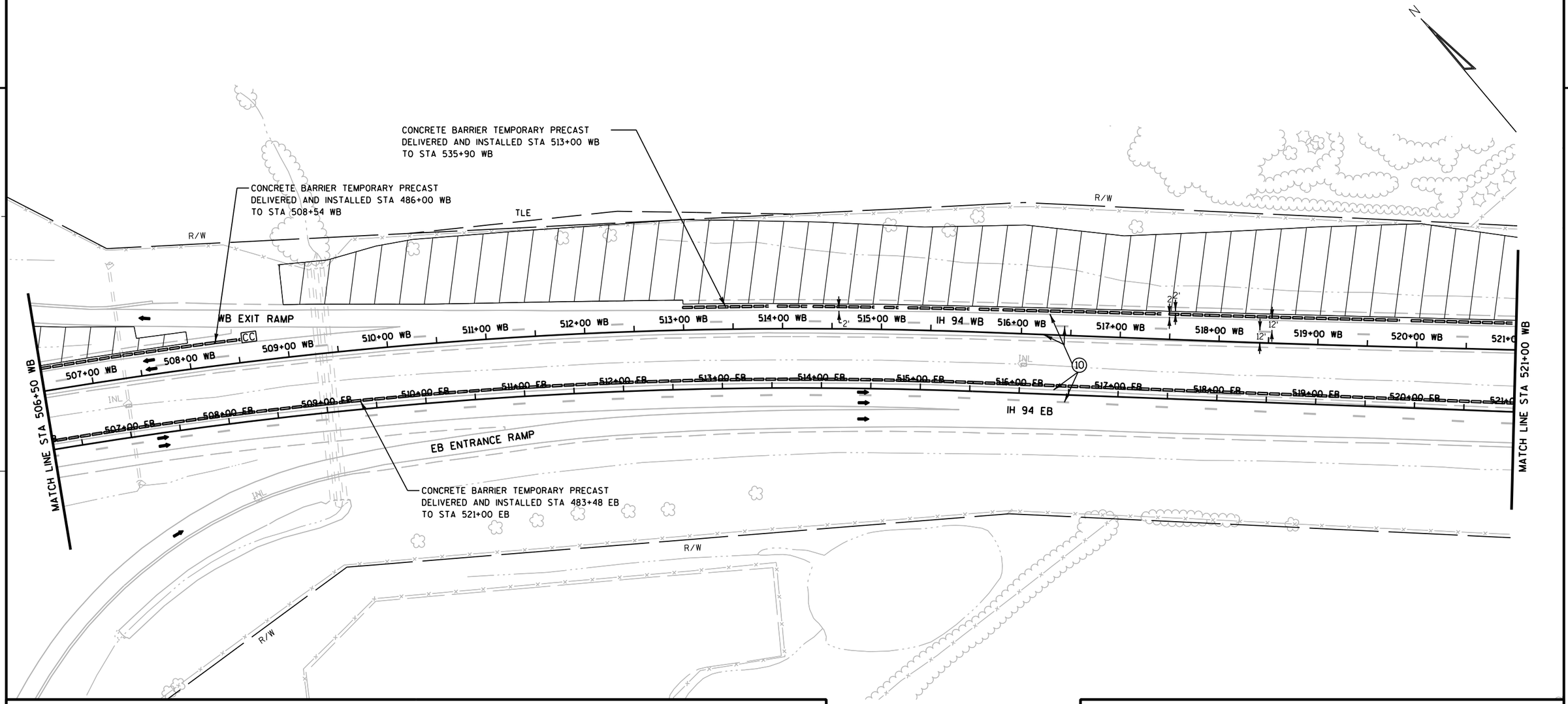
R/W

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 1A (SHEET 4 OF 6)	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025006-2_tc_stage1A.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 42

2



TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	∿∿	TEMPORARY SHORING
⊥	TYPE III BARRICADE WTH ATTACHED SIGN	▭▭▭	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▭▭▭	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
◢	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⇶	FLASHING ARROW BOARD	▩	ASPHALTIC SURFACE TEMPORARY
⊦	SIGN ON SUPPORT	▯	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▯	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

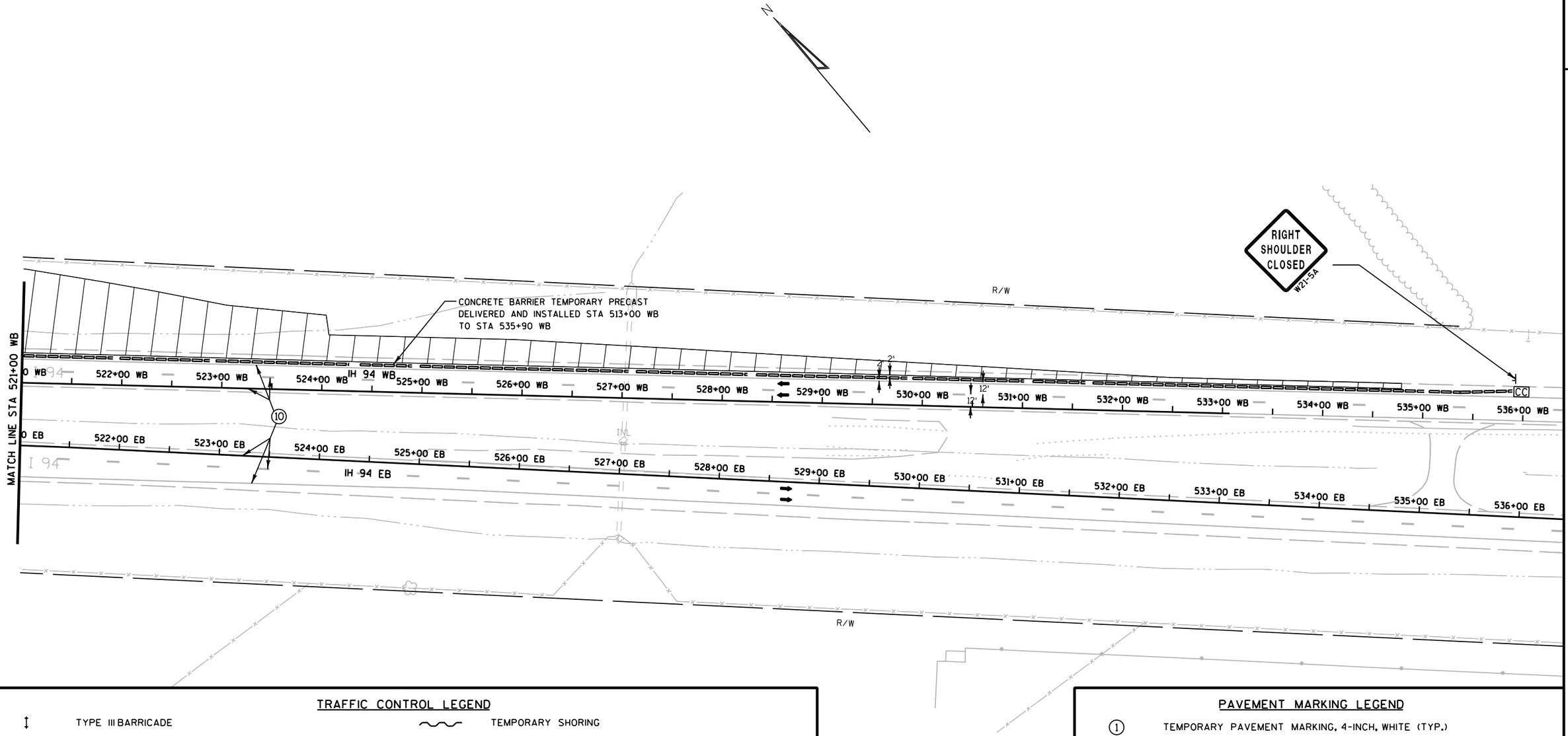
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 1A (SHEET 5 OF 6)	SHEET 148	E

2



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

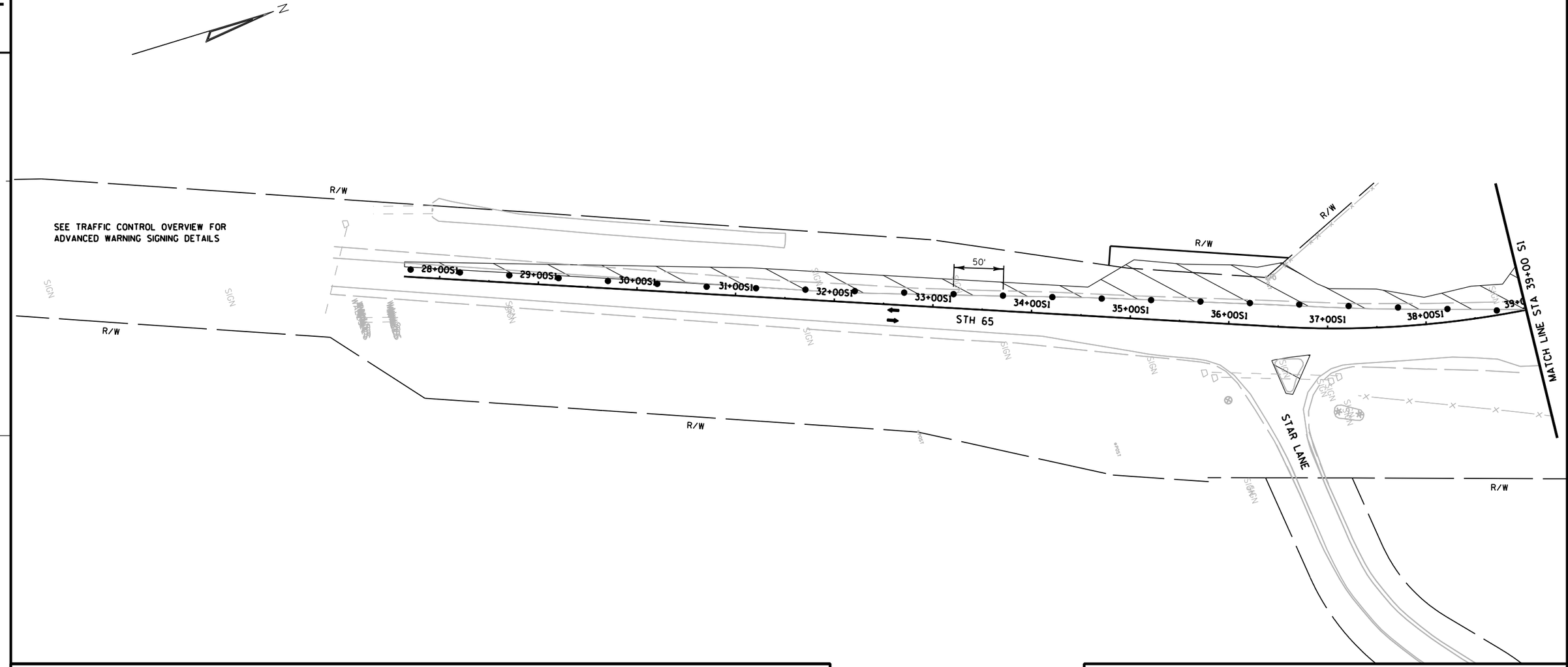
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 1A (SHEET 6 OF 6)	SHEET 149	E

2



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CC CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

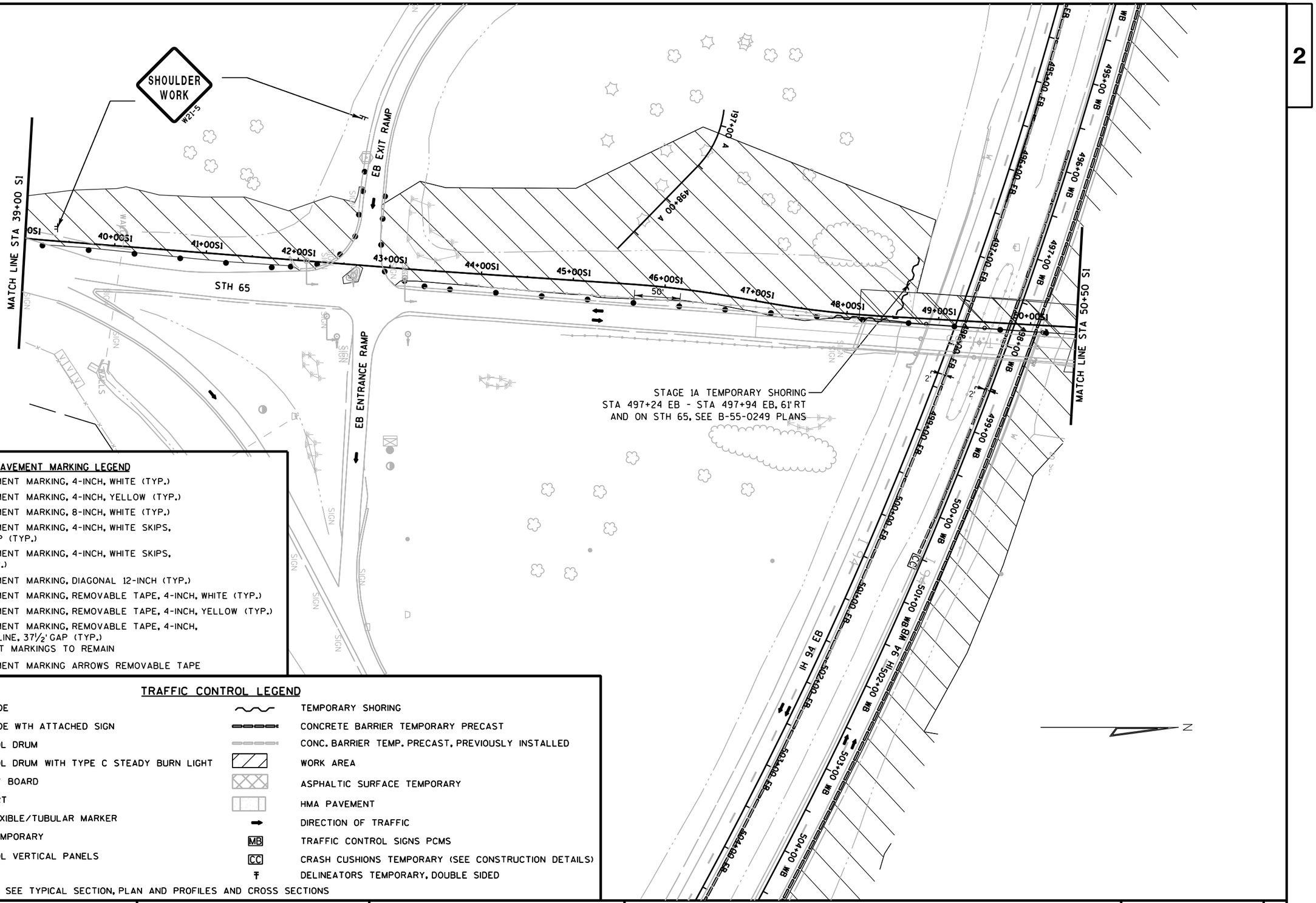
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN
11. TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	STH 65 TRAFFIC CONTROL - STAGE 1A THRU 2B (SHEET 1 OF 3)	SHEET 150	E

2



PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN
11. TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE

TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	STH 65 TRAFFIC CONTROL - STAGE 1A THRU 2B (SHEET 2 OF 3)	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\65099_tc_stage1A.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :
WISDOT/CADDS SHEET 42

TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	∿∿	TEMPORARY SHORING
↕	TYPE III BARRICADE WTH ATTACHED SIGN	▭▭▭	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▭▭▭	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⇉	FLASHING ARROW BOARD	▨	ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▽	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN
11. TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE

CONCRETE BARRIER TEMPORARY PRECAST DELIVERED AND INSTALLED STA 477+00 D1 TO STA 493+10 D1

SHOULDER WORK W21-5

SHOULDER WORK W21-5

SEE TRAFFIC CONTROL OVERVIEW FOR ADVANCED WARNING SIGNING DETAILS

SHOULDER WORK W21-5

MATCH LINE STA 50+50 S1

TEMPORARY SHORING SEE B-55-0249 PLANS

WB ENTRANCE RAMP

WB EXIT RAMP

70TH AVE

R/W

TLE

SIGN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	STH 65 TRAFFIC CONTROL - STAGE 1A THRU 2B (SHEET 3 OF 3)	SHEET E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\65100_tc_stage1A.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 42

2

TRAFFIC

IH 94

IH 94 EB TRAFFIC TO REMAIN ON EXISTING EB MAINLINE.

IH 94 WB TRAFFIC TO REMAIN ON EXISTING WB MAINLINE.

IH 94/STH 65 EB RAMP TRAFFIC TO REMAIN ON THE EXISTING RAMPS.

IH 94/STH 65 WB EXIT RAMP TRAFFIC TO REMAIN ON THE EXISTING WB EXIT RAMP.

IH 94/STH 65 WB EXIT RAMP WILL BE CLOSED AND DETOURED AT EXIT 19 AS PROVIDED IN THE SPECIAL PROVISIONS TO CONSTRUCT STAGE 1B WIDENING THROUGH THE EXISTING RAMP.

IH 94/STH 65 WB ENTRANCE RAMP TRAFFIC TO MOVE TO THE STAGE 1A TEMPORARY WB ENTRANCE D1-RAMP.

STH 65

STH 65 TRAFFIC TO REMAIN ON EXISTING MAINLINE.

IH 94/STH 65 EB RAMP TRAFFIC TO REMAIN AT THE EXISTING RAMP INTERSECTION.

IH 94/STH 65 WB RAMP TRAFFIC TO REMAIN AT THE EXISTING RAMP INTERSECTION.

CONSTRUCTION

IH 94

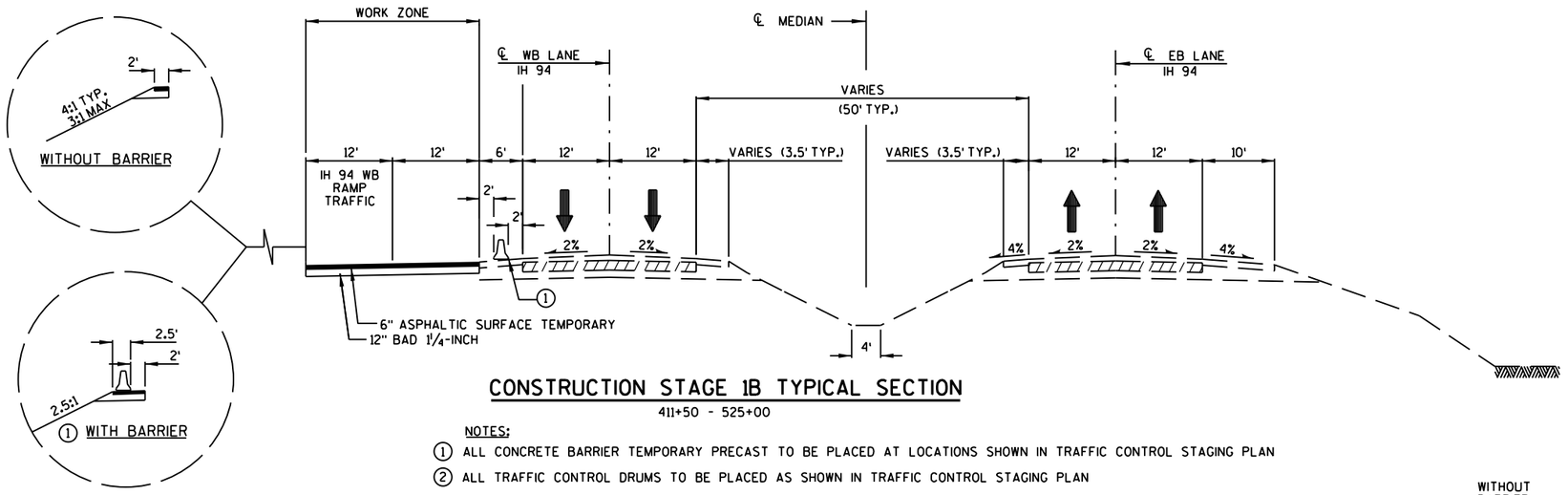
PLACE CONCRETE BARRIER TEMPORARY PRECAST ON THE STAGE 1A MAINLINE WIDENING IH 94 WB LT STA 403+50WB - STA 421+48WB, STA 466+15WB - STA 476+48WB, STA 478+25WB - STA 486+00WB, AND STA 479+50WB - STA 484+68WB

PLACE CONCRETE BARRIER TEMPORARY PRECAST ON TEMPORARY WB ENTRANCE D1-RAMP LT STA 486+00D1 - STA 488+58D1, AND RT STA 484+68D1 - STA 493+17D1

SWITCH WB ENTRANCE RAMP TRAFFIC TO THE STAGE 1A IH 94/STH 65 WB TEMPORARY ENTRANCE RAMP.

COMPLETE STAGE 1B MAINLINE WIDENING IH 94 WB LT STA 479+50WB - STA 513+00WB

COMPLETE STAGE 1B TEMPORARY WB EXIT C1-RAMP



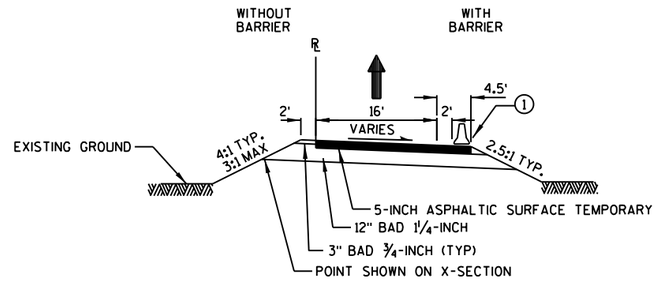
CONSTRUCTION STAGE 1B TYPICAL SECTION

411+50 - 525+00

NOTES;

① ALL CONCRETE BARRIER TEMPORARY PRECAST TO BE PLACED AT LOCATIONS SHOWN IN TRAFFIC CONTROL STAGING PLAN

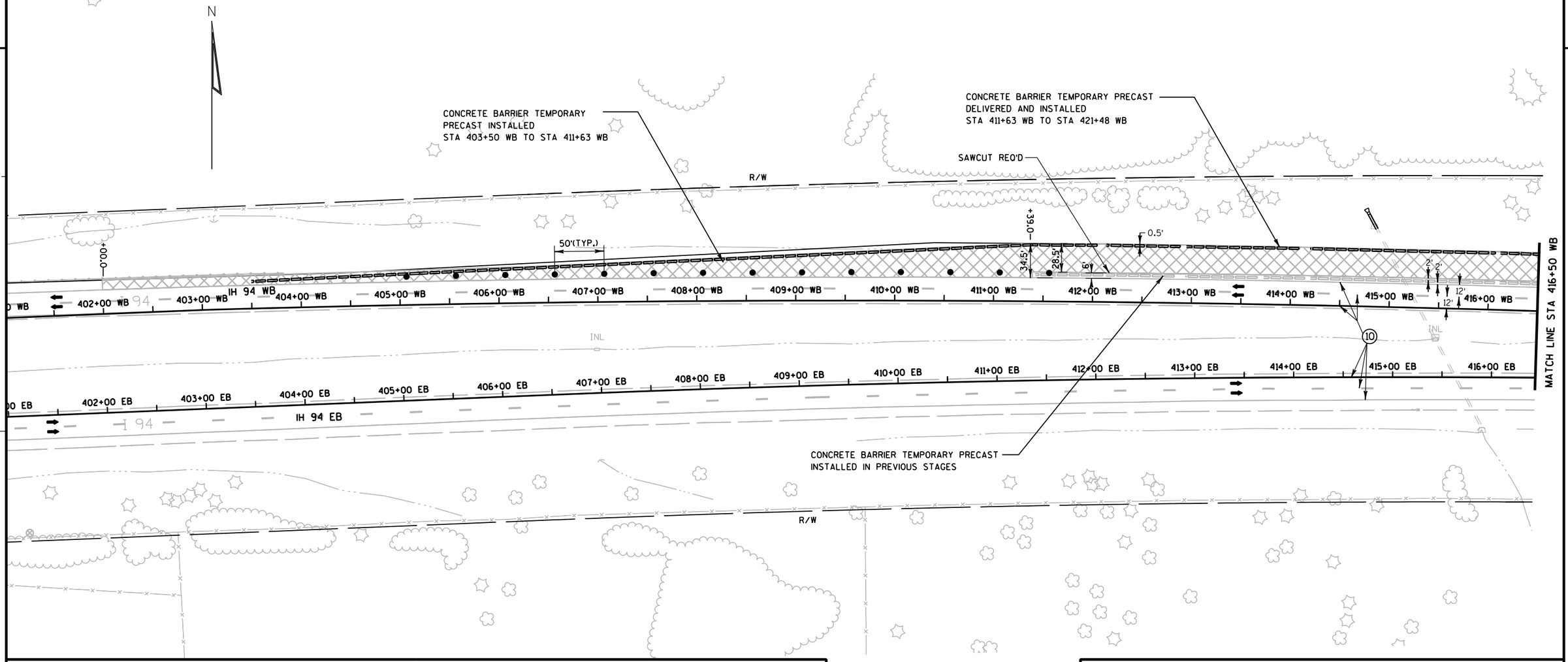
② ALL TRAFFIC CONTROL DRUMS TO BE PLACED AS SHOWN IN TRAFFIC CONTROL STAGING PLAN



TEMPORARY RAMP TYPICAL SECTION

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 1B TYPICAL SECTIONS	SHEET 153	E

2



TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	~~~	TEMPORARY SHORING
↕	TYPE III BARRICADE WTH ATTACHED SIGN		CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM		CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		WORK AREA
	FLASHING ARROW BOARD		ASPHALTIC SURFACE TEMPORARY
⊦	SIGN ON SUPPORT		HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▯	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

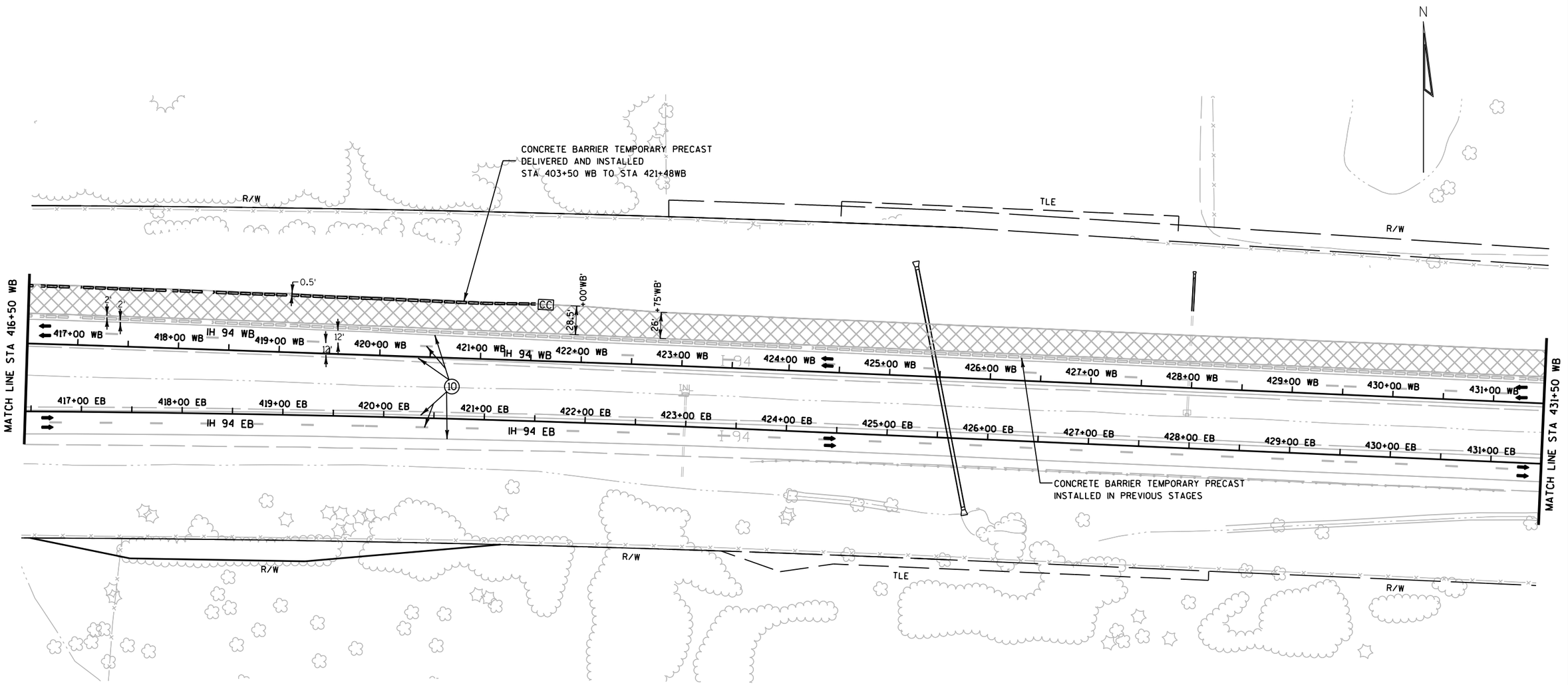
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

(1)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
(2)	TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
(3)	TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
(4)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(5)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
(6)	TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
(7)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
(8)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
(9)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(10)	EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 1B (SHEET 1 OF 9)	SHEET 154	E

2



TRAFFIC CONTROL LEGEND

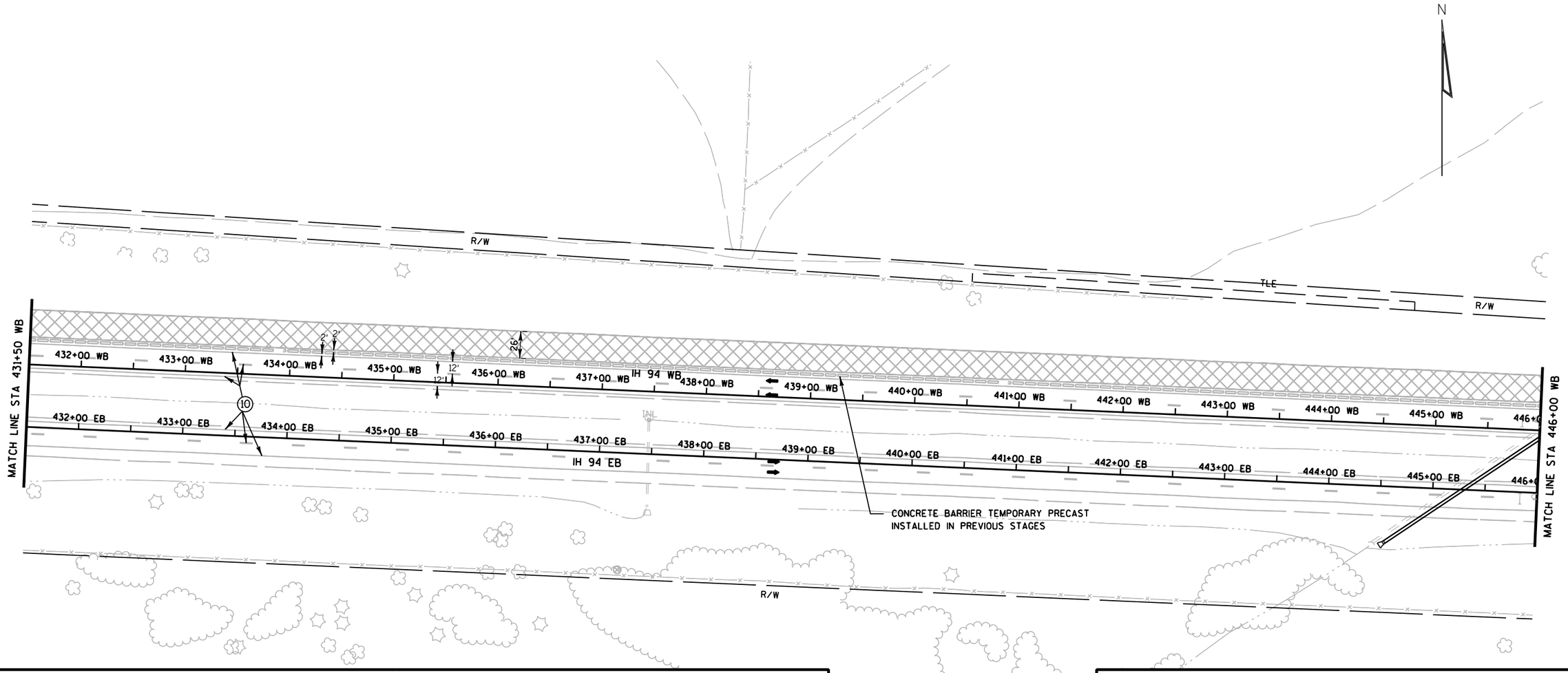
↕	TYPE III BARRICADE	∿∿	TEMPORARY SHORING
↕	TYPE III BARRICADE WTH ATTACHED SIGN	▭▭	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▭▭	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
⚡	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⇶	FLASHING ARROW BOARD	▨	ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▯	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

(1)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
(2)	TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
(3)	TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
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(5)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
(6)	TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
(7)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
(8)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
(9)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(10)	EXISTING PAVEMENT MARKINGS TO REMAIN

2



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

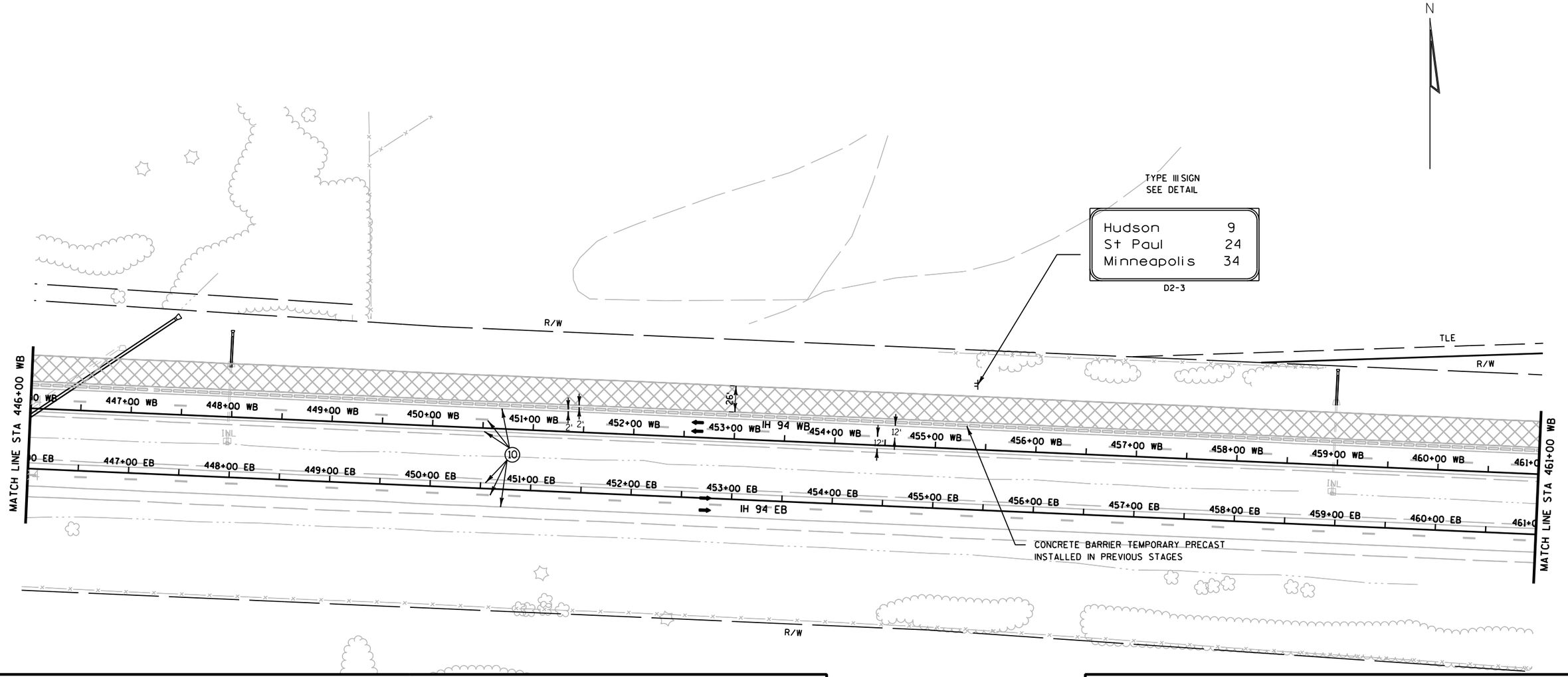
1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 1B (SHEET 3 OF 9)	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025014_tc_stage1B.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 42

2



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

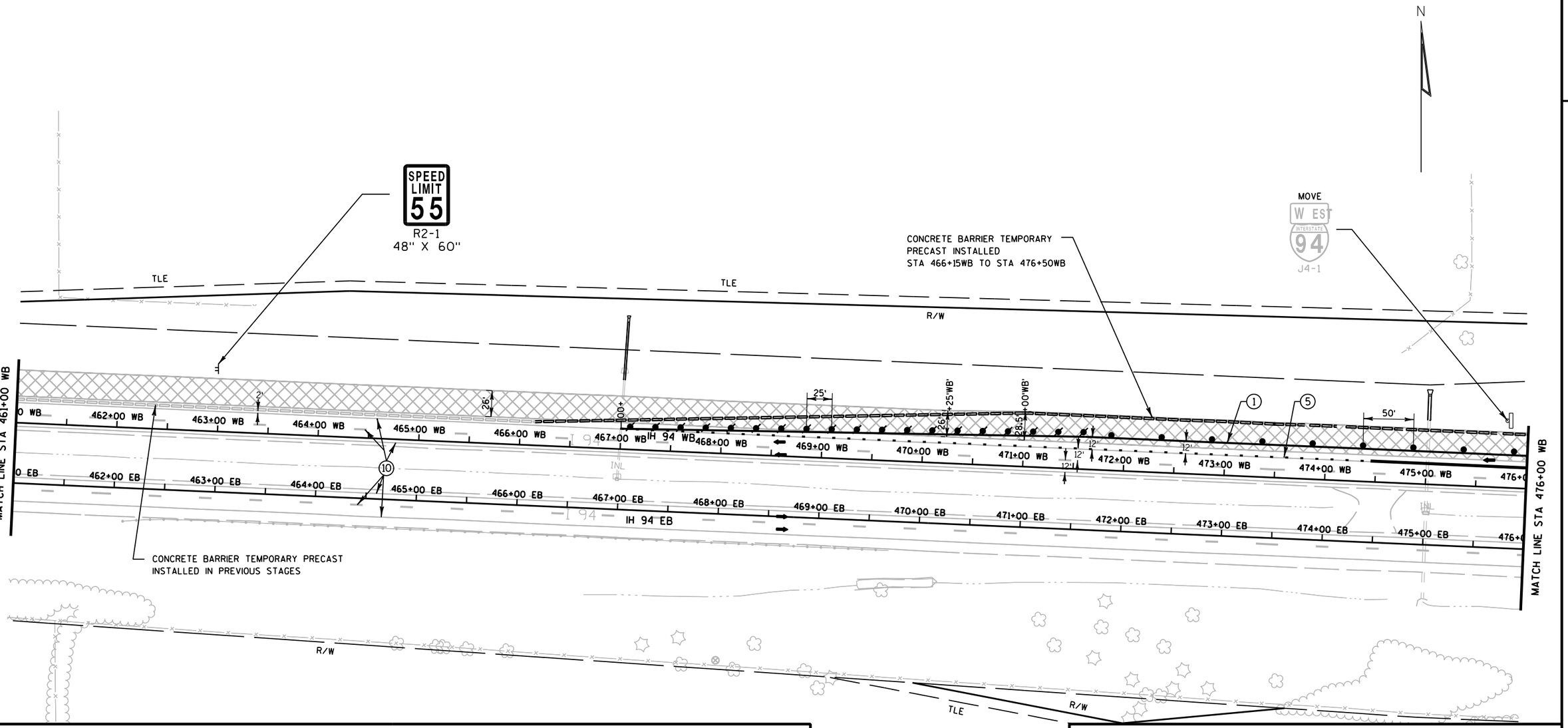
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 1B (SHEET 4 OF 9)	SHEET 157	E

2



TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	∿∿	TEMPORARY SHORING
↕	TYPE III BARRICADE WTH ATTACHED SIGN	▭▭▭	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▭▭▭	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
✱	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⇶	FLASHING ARROW BOARD	▨	ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▯	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

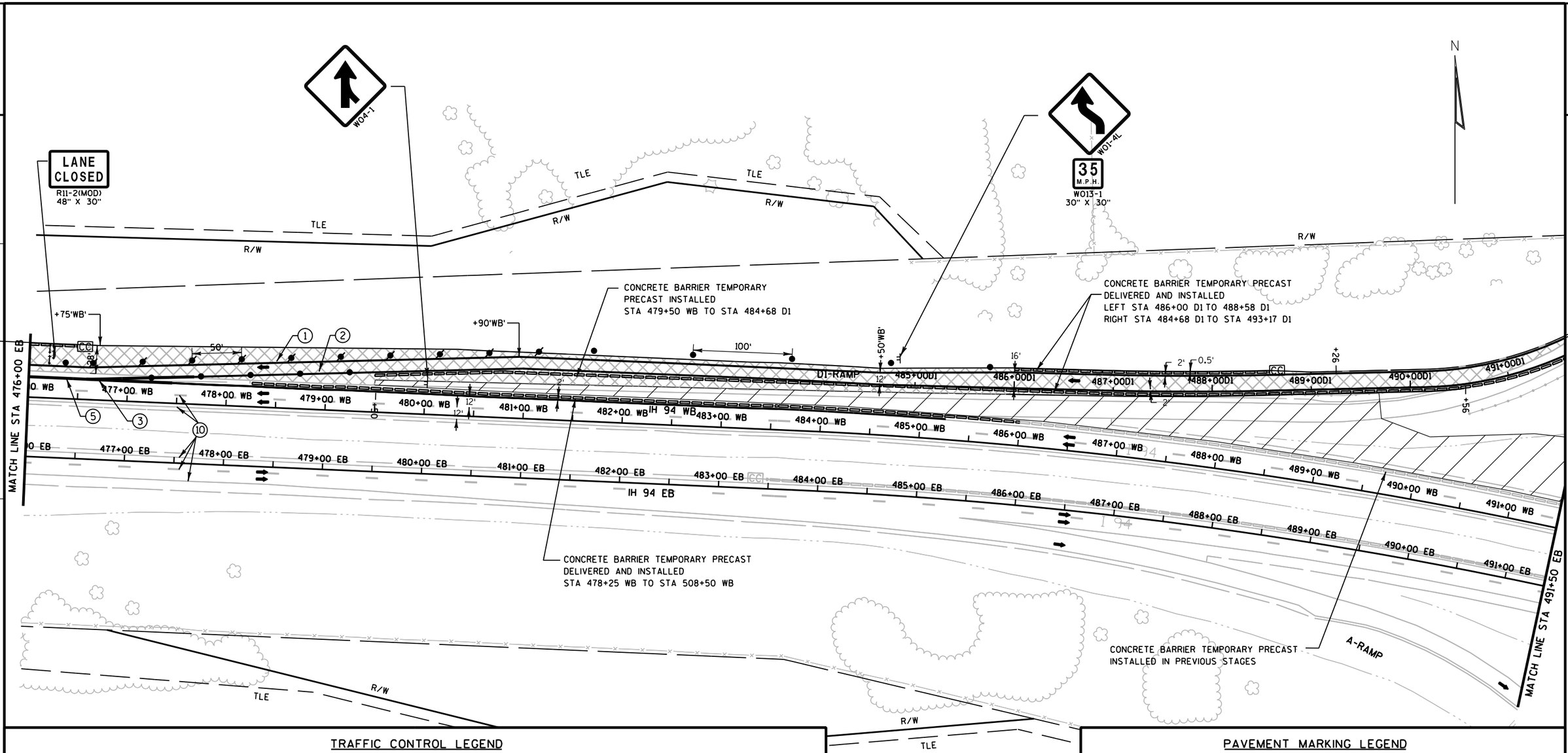
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

(1)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
(2)	TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
(3)	TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
(4)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(5)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
(6)	TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
(7)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
(8)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
(9)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(10)	EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 1B (SHEET 5 OF 9)	SHEET 158	E

2



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 1B (SHEET 6 OF 9)	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025017_tc_stage1B.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :
WISDOT/CADDS SHEET 42

2

2

WB ENTRANCE RAMP

WO1-2R

35 M.P.H.

WO13-1
30" X 30"

SEE STH 65 TRAFFIC CONTROL PLAN FOR STH 65 TRAFFIC CONTROL ITEMS

STH 65

D D-RAMP

498+00 D

497+00 D

WB EXIT RAMP

S1-RAMP

1300+22S

1300+12S

1300+02S

1300+51S

1300+56S

1500+55

1500+54

1500+53

1500+52

1500+51

1500+50

1500+49

1500+48

1500+47

1500+46

1500+45

493+00D

CC

MATCH LINE STA 491+50 EB

492+00 WB

493+00 WB

494+00 WB

495+00 WB

496+00 WB

497+00 WB

492+00 EB

493+00 EB

494+00 EB

495+00 EB

496+00 EB

497+00 EB

12'

12'

10

CONCRETE BARRIER TEMPORARY PRECAST
INSTALLED IN PREVIOUS STAGES

497+00 A

498+00 WB

499+00 WB

500+00 WB

501+00 WB

502+00 WB

503+00 WB

504+00 WB

505+00 WB

506+00 WB

IH 94 WB

498+00 EB

499+00 EB

500+00 EB

501+00 EB

502+00 EB

503+00 EB

504+00 EB

505+00 EB

506+00 EB

IH 94 EB

MATCH LINE STA 506+50 EB

TEMPORARY SHORING REQ'D

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN
11. TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE

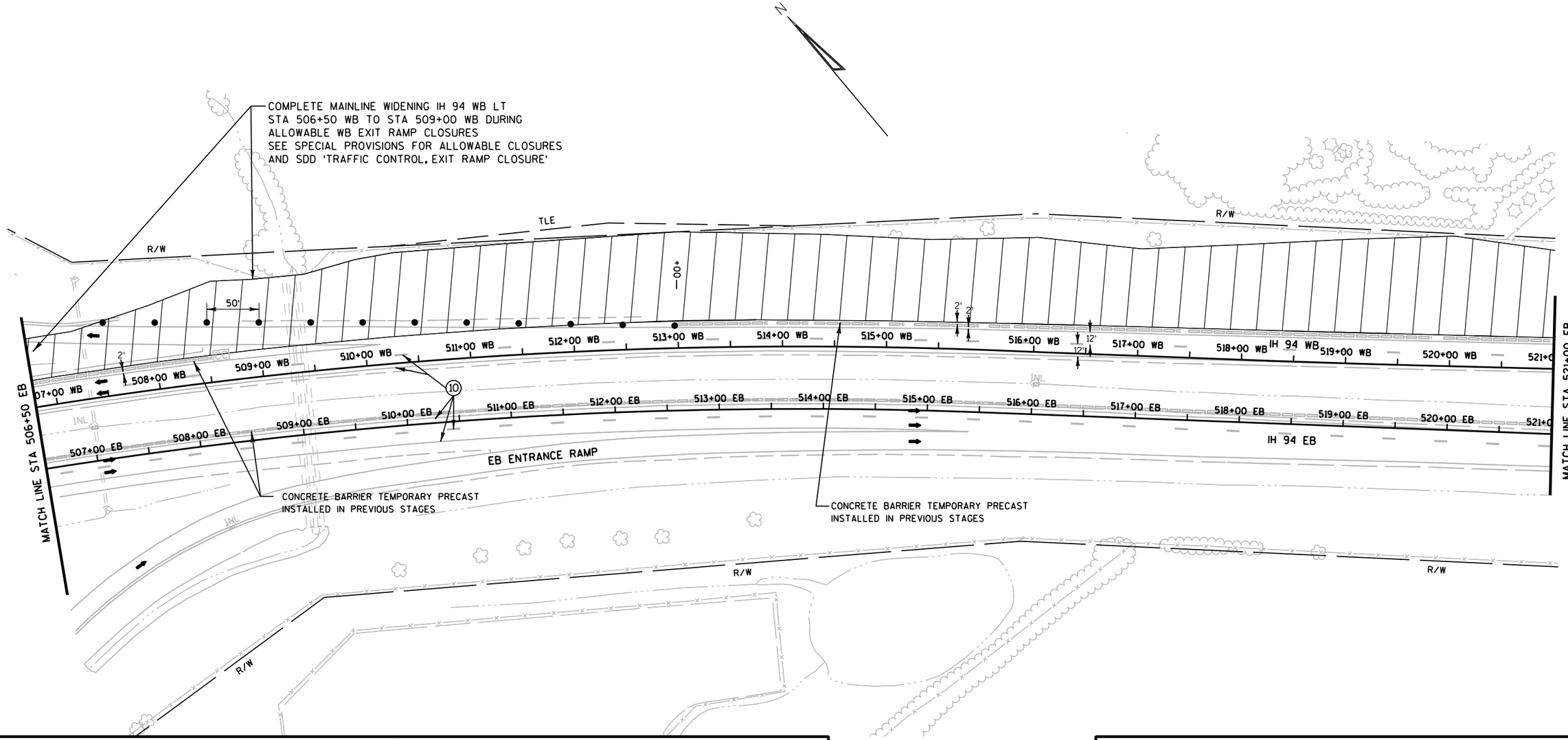
TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CC CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 1B (SHEET 7 OF 9)	SHEET 160	E

2



TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	~~~	TEMPORARY SHORING
↕	TYPE III BARRICADE WTH ATTACHED SIGN	▭▭▭	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▭▭▭	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⚡	FLASHING ARROW BOARD	▨	ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▽	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

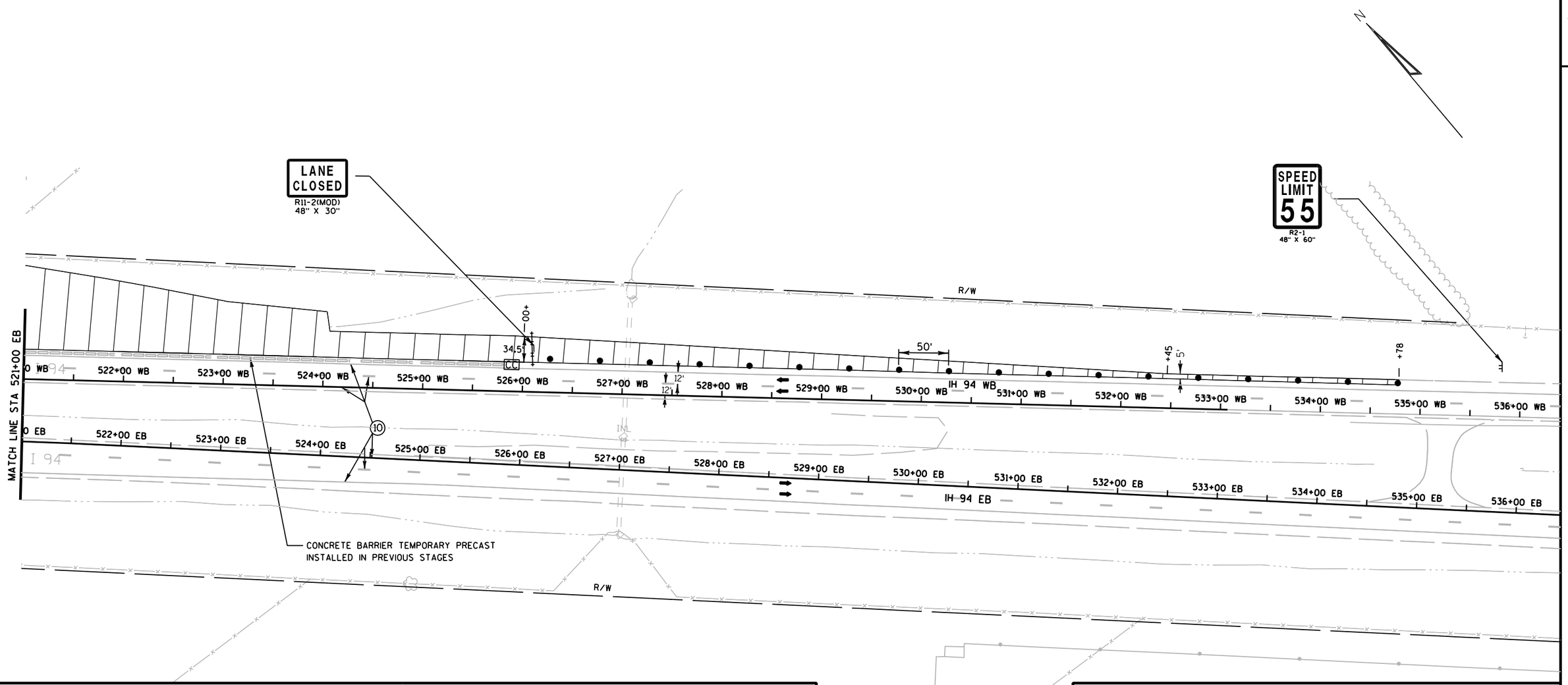
PAVEMENT MARKING LEGEND

1	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2	TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3	TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6	TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10	EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 1B (SHEET 8 OF 9)	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025020_tc_stage1B.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :
WISDOT/CADDS SHEET 42

2



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
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- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 1B (SHEET 9 OF 9)	SHEET 162	E

2

TRAFFIC

IH 94

IH 94 EB TRAFFIC TO REMAIN ON EXISTING EB MAINLINE.

IH 94 WB TRAFFIC TO MOVE TO THE
STAGE 1A/1B TEMPORARY WB MAINLINE WIDENING.

IH 94/STH 65 EB RAMP TRAFFIC TO REMAIN ON THE EXISTING RAMPS.

IH 94/STH 65 WB EXIT RAMP TRAFFIC TO MOVE TO THE
STAGE 1B TEMPORARY WB EXIT C1-RAMP.

IH 94/STH 65 WB ENTRANCE RAMP TRAFFIC TO REMAIN ON THE
STAGE 1A TEMPORARY WB ENTRANCE D1-RAMP.

STH 65

STH 65 TRAFFIC TO REMAIN ON EXISTING MAINLINE.

IH 94/STH 65 EB RAMP TRAFFIC TO REMAIN AT THE EXISTING RAMP INTERSECTION.

IH 94/STH 65 WB RAMP TRAFFIC TO REMAIN AT THE EXISTING RAMP INTERSECTION.

CONSTRUCTION

IH 94

PLACE CONCRETE BARRIER TEMPORARY PRECAST ON THE
STAGE 1B MAINLINE WIDENING IH 94 WB LT STA 505+25WB - STA 510+84WB

SWITCH WB EXIT RAMP TRAFFIC TO THE
STAGE 1B IH 94/STH 65 WB TEMPORARY EXIT C1-RAMP.

PLACE CONCRETE BARRIER TEMPORARY PRECAST ON THE STAGE 1B MAINLINE
IH 94 WB LT STA 466+15WB - STA 478+25WB, STA 491+25 WB - STA 502+80 WB,
AND STA 491+25WB - STA 513+00WB

SWITCH WB TRAFFIC TO THE STAGE 1A/1B IH 94 WB MAINLINE WIDENING

COMPLETE STAGE 1C TEMPORARY MAINLINE WIDENING IH 94 WB RT
STA 411+15WB - STA 525+50WB

COMPLETE STAGE 1C TEMPORARY MAINLINE WIDENING IH 94 EB RT
STA 531+90EB - STA 547+25EB

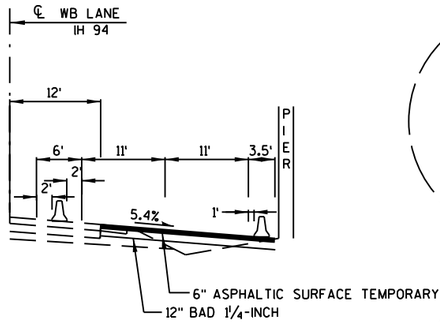
COMPLETE STAGE 1C MAINLINE CROSSOVERS IH 94,
WB STA 397+50WB - STA 413+50WB
AND STA 525+50WB - STA 539+75WB

COMPLETE STAGE 1C TEMPORARY EB EXIT A1-RAMP
STA 490+79A1 - STA 491+60A1

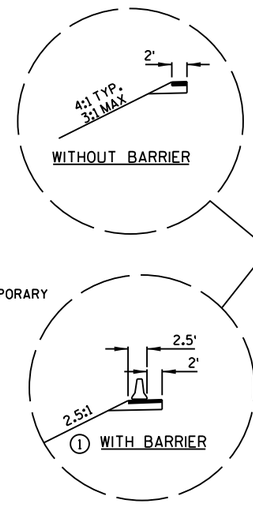
COMPLETE STAGE 1C TEMPORARY EB ENTRANCE B1-RAMP
STA 508+80B1 - STA 509+95B1

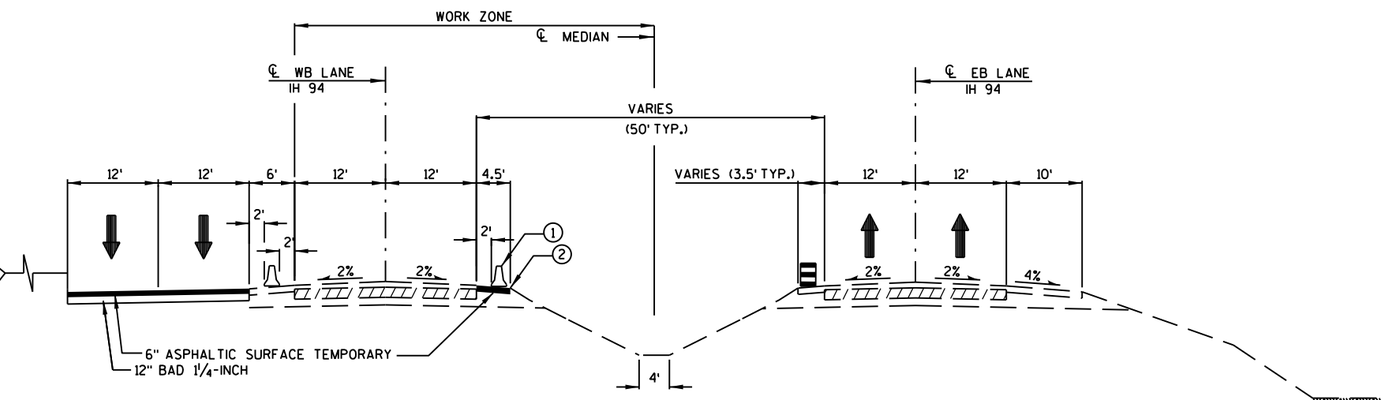
PLACE CONCRETE BARRIER TEMPORARY PRECAST ON STAGE 1B WB
EXIT C1 RAMP STA 520+00C1 - STA 524+00C1

2



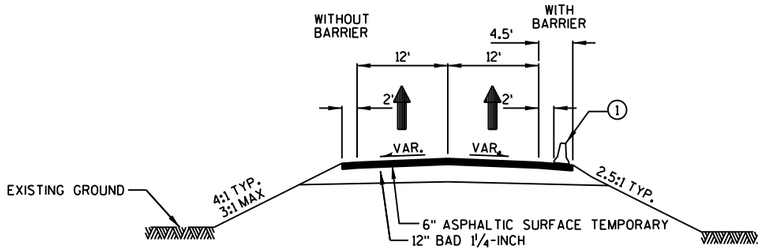
1C TYPICAL SECTION UNDER STH 65



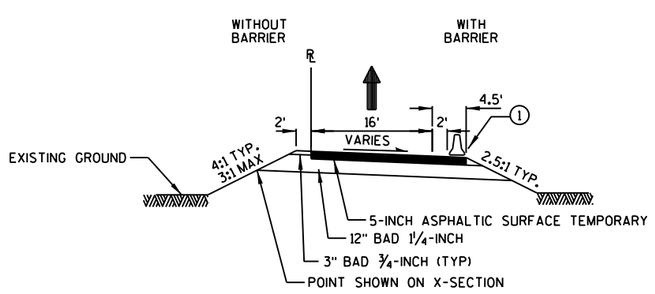


CONSTRUCTION STAGE 1C TYPICAL SECTION
411+50 - 525+00

NOTES:
① ALL CONCRETE BARRIER TEMPORARY PRECAST TO BE PLACED AT LOCATIONS SHOWN IN TRAFFIC CONTROL STAGING PLAN
② EXISTING 3.5' SHOULDER TO BE REMOVED AND NEW 4.5' SHOULDER TO BE CONSTRUCTED



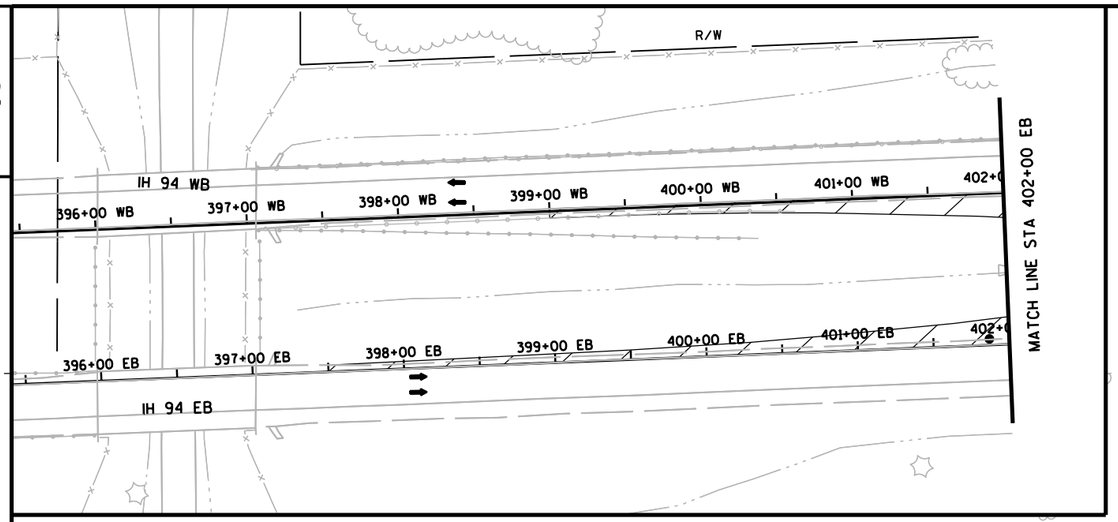
MAINLINE CROSSOVER TYPICAL SECTION

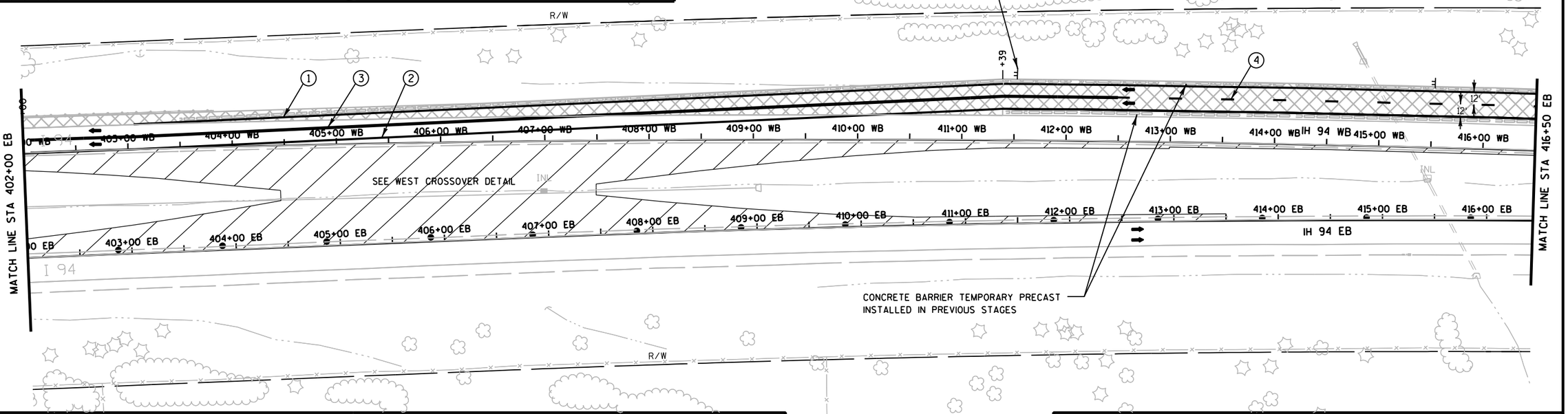


TEMPORARY RAMP TYPICAL SECTION

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 1C TYPICAL SECTIONS	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\tc_All_Stages.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :
WISDOT/CADDS SHEET 42





TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	~~~	TEMPORARY SHORING
↕	TYPE III BARRICADE WTH ATTACHED SIGN	▬▬	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▬▬	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
✐	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⇶	FLASHING ARROW BOARD	▩	ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
⛉	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

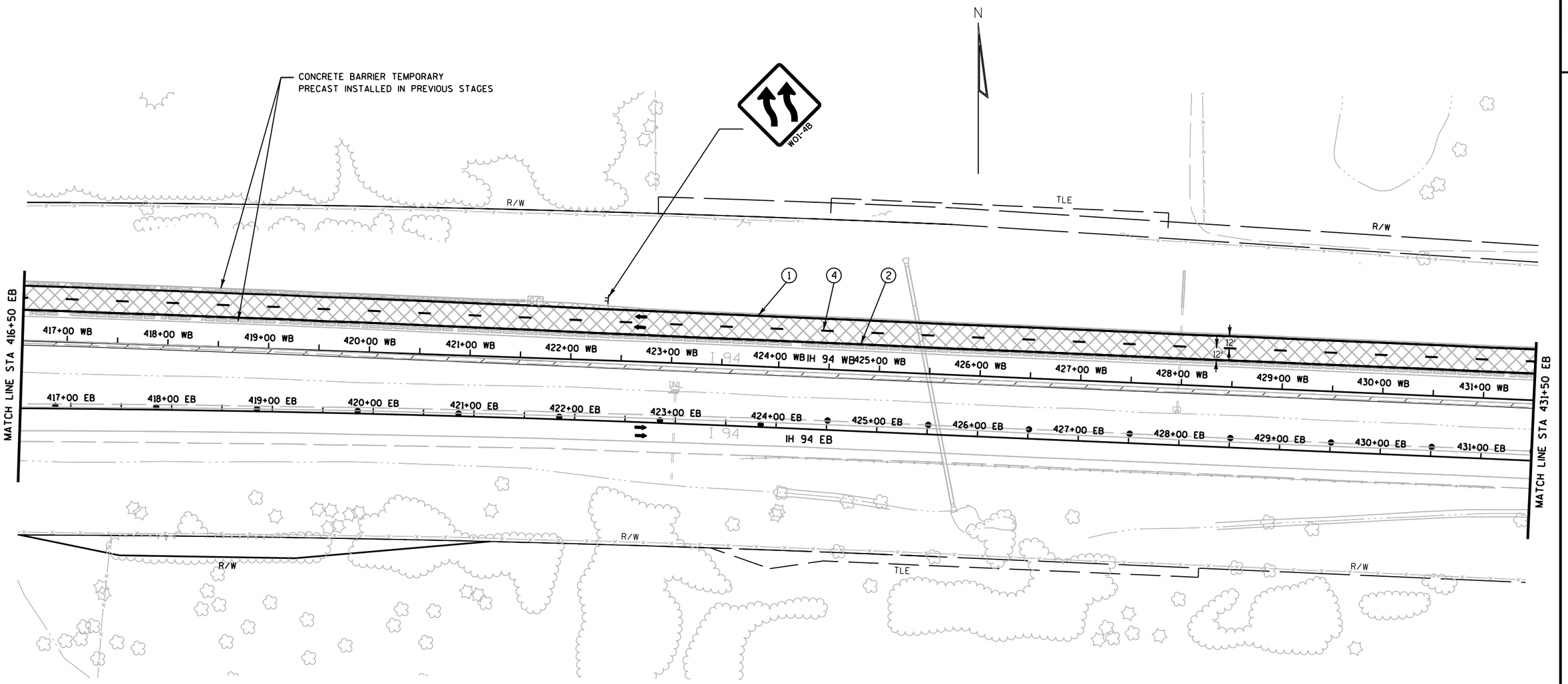
PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 1C (SHEET 1 OF 9)	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025034_tc_stage1C-2.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :
WISDOT/CADDS SHEET 42

2



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

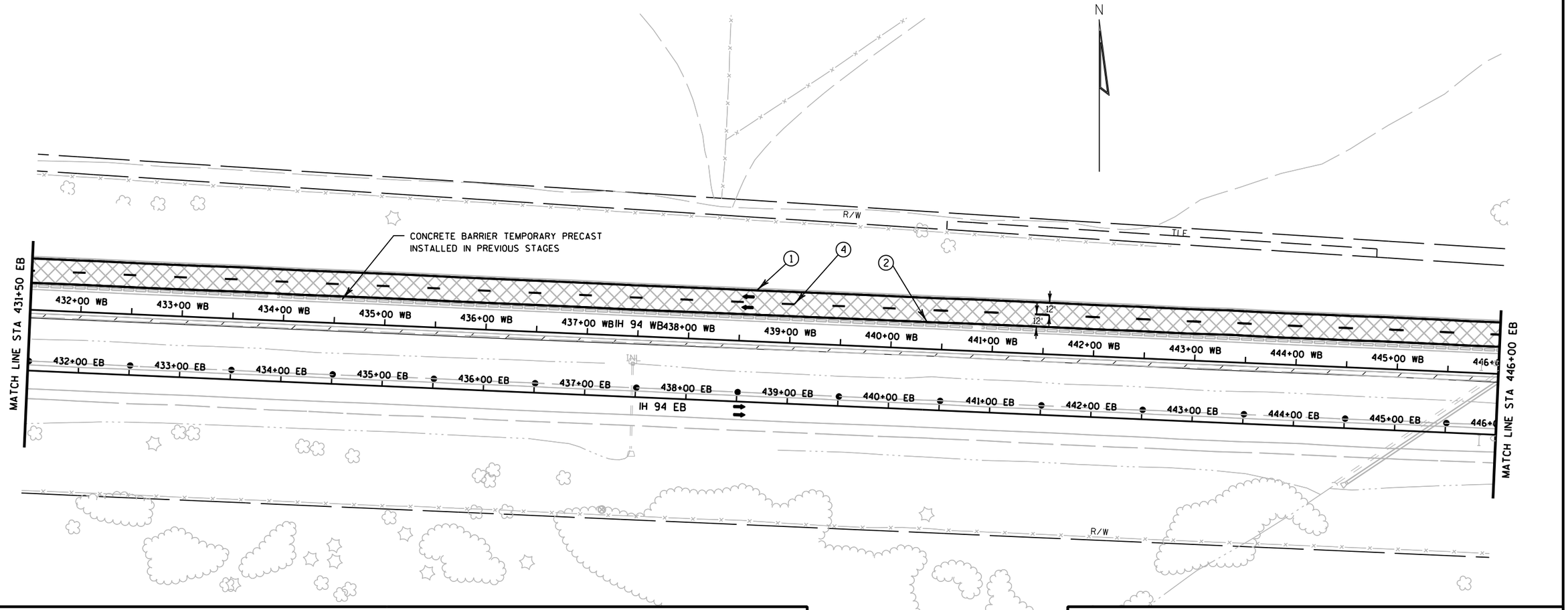
PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 1C (SHEET 2 OF 9)	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025035_tc_stage1C-2.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

2



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

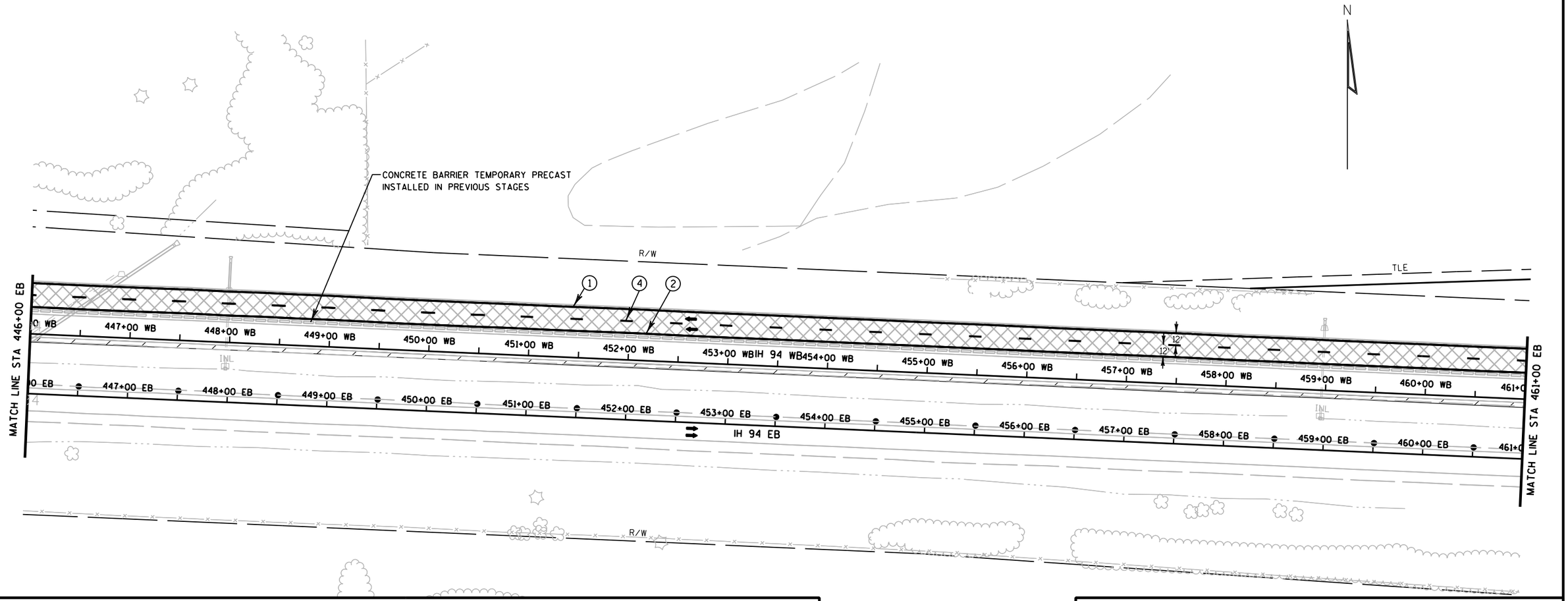
1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 1C (SHEET 3 OF 9)	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025036_tc_stage1C-2.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 42

2



TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	~~~	TEMPORARY SHORING
↕	TYPE III BARRICADE WTH ATTACHED SIGN		CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM		CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		WORK AREA
	FLASHING ARROW BOARD		ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT		HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

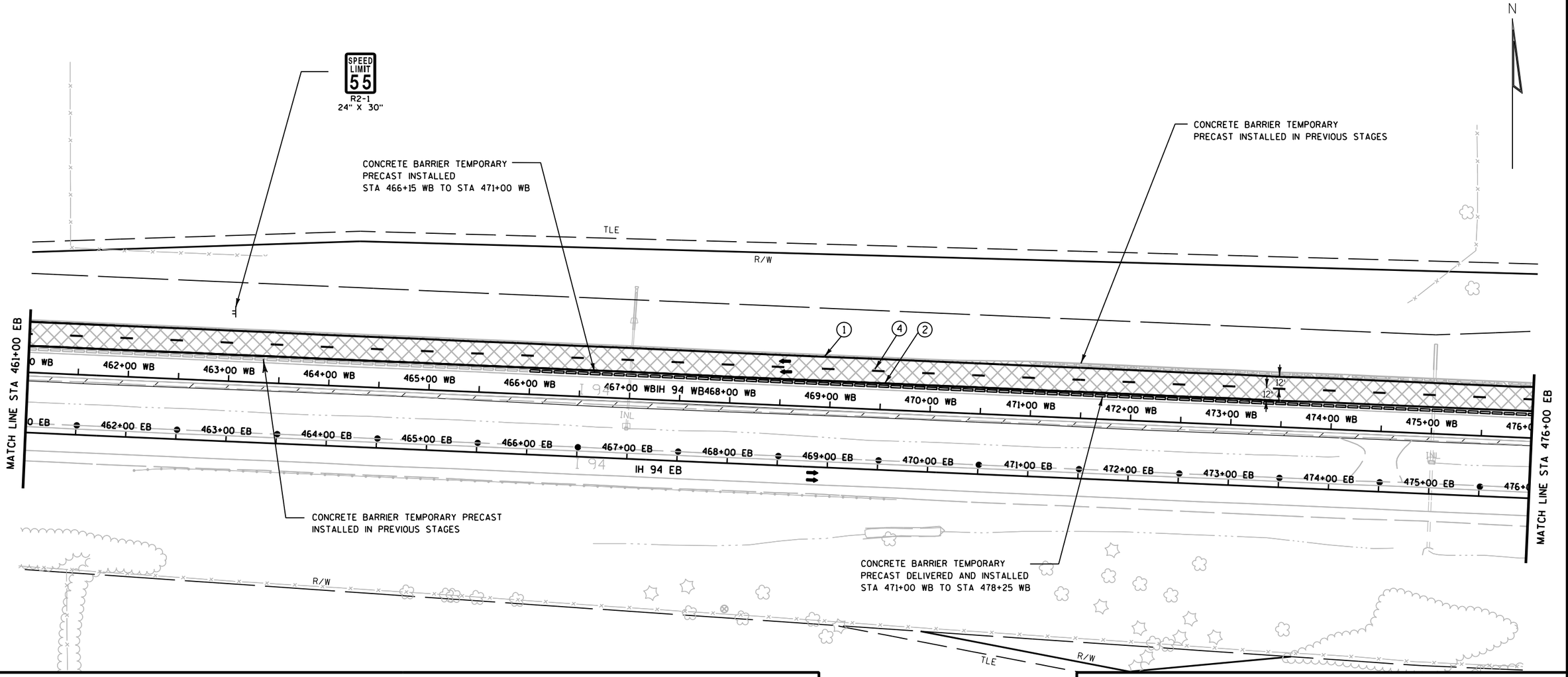
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

(1)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
(2)	TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
(3)	TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
(4)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(5)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
(6)	TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
(7)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
(8)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
(9)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(10)	EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 1C (SHEET 4 OF 9)	SHEET 167	E

2



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

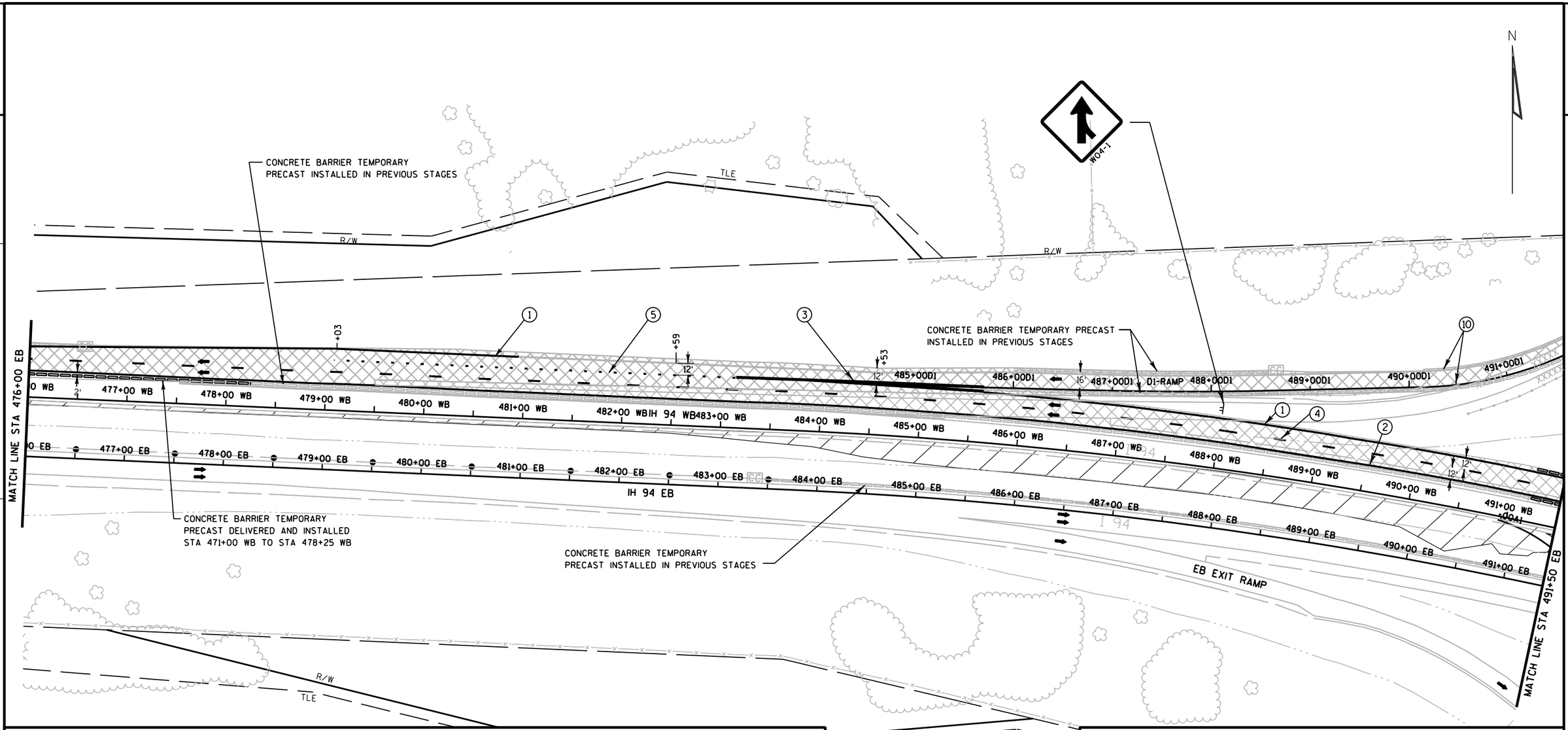
PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
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7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 1C (SHEET 5 OF 9)	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025038_tc_stage1C-2.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :
WISDOT/CADDS SHEET 42

2



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 1C (SHEET 6 OF 9)	SHEET 169	E

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
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7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN
11. TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE

TYPE III SIGN REQUIRED (SEE DETAIL)

EXIT 10

65

River Falls

New Richmond

EXIT

E5-1
60" X 48"

CONCRETE BARRIER TEMPORARY PRECAST DELIVERED AND INSTALLED STA 520+00 C1 TO STA 524+00 C1

CONCRETE BARRIER TEMPORARY PRECAST DELIVERED AND INSTALLED STA 505+25 WB TO STA 510+84 WB

W01-2R

35 M.P.H.

W013-1
30" X 30"

W1-8
18" X 24"

SEE STH 65 TRAFFIC CONTROL PLAN FOR STH 65 TRAFFIC CONTROL ITEMS

CONCRETE BARRIER TEMPORARY PRECAST DELIVERED AND INSTALLED STA 491+25 WB TO STA 495+75 WB

CONCRETE BARRIER TEMPORARY PRECAST INSTALLED IN PREVIOUS STAGES

CONCRETE BARRIER TEMPORARY PRECAST INSTALLED STA 491+25 WB TO STA 502+80 WB

CONCRETE BARRIER TEMPORARY PRECAST INSTALLED STA 495+75 WB TO STA 500+47

CONCRETE BARRIER TEMPORARY PRECAST DELIVERED AND INSTALLED STA 500+47 TO 505+50

CONCRETE BARRIER TEMPORARY PRECAST INSTALLED IN PREVIOUS STAGES

MATCH LINE STA 491+50 EB

MATCH LINE STA 506+50 EB

TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

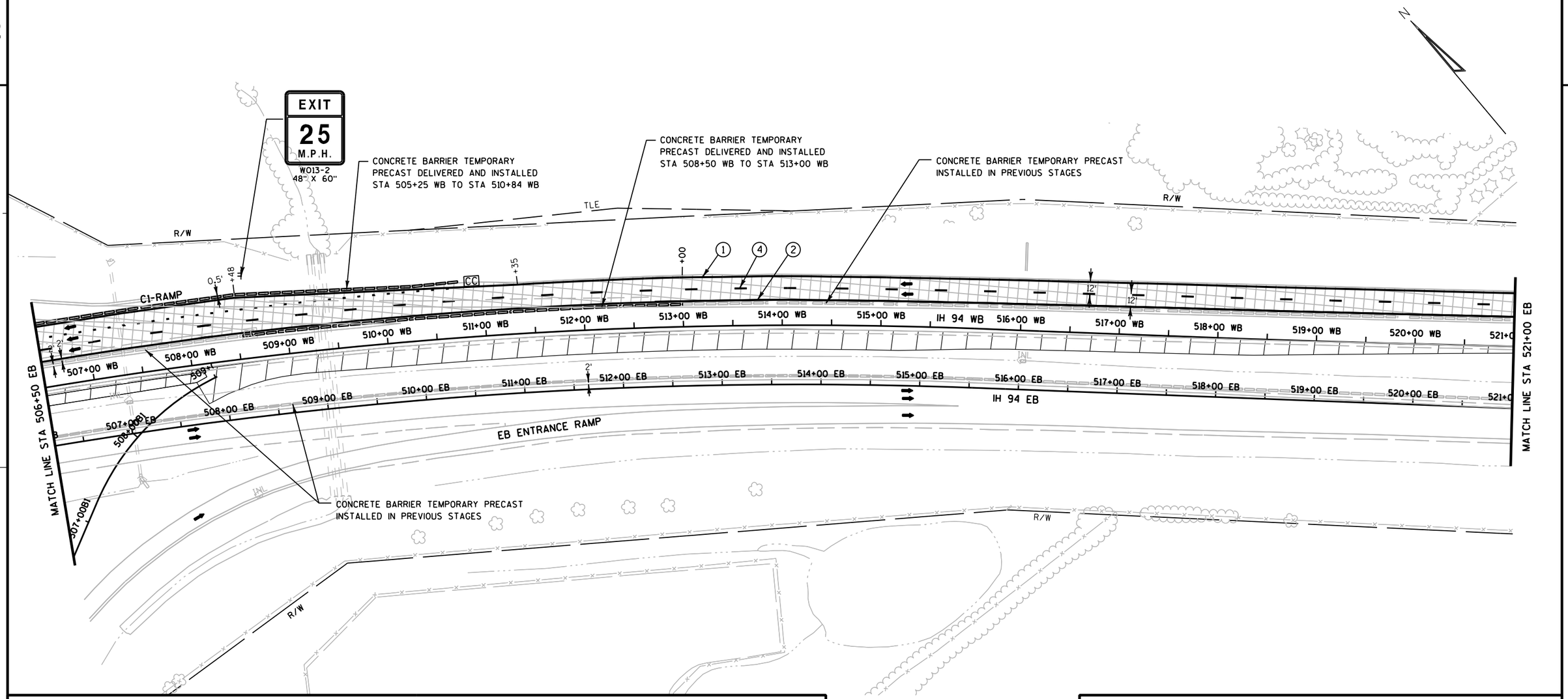
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 1C (SHEET 7 OF 9)	SHEET 170 E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025040_tc_stage1C-2.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 42

2



TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	∿∿	TEMPORARY SHORING
↕	TYPE III BARRICADE WTH ATTACHED SIGN	⊂⊃⊂⊃	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	⊂⊃⊂⊃	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
◪	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⇶	FLASHING ARROW BOARD	▩	ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
⊽	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

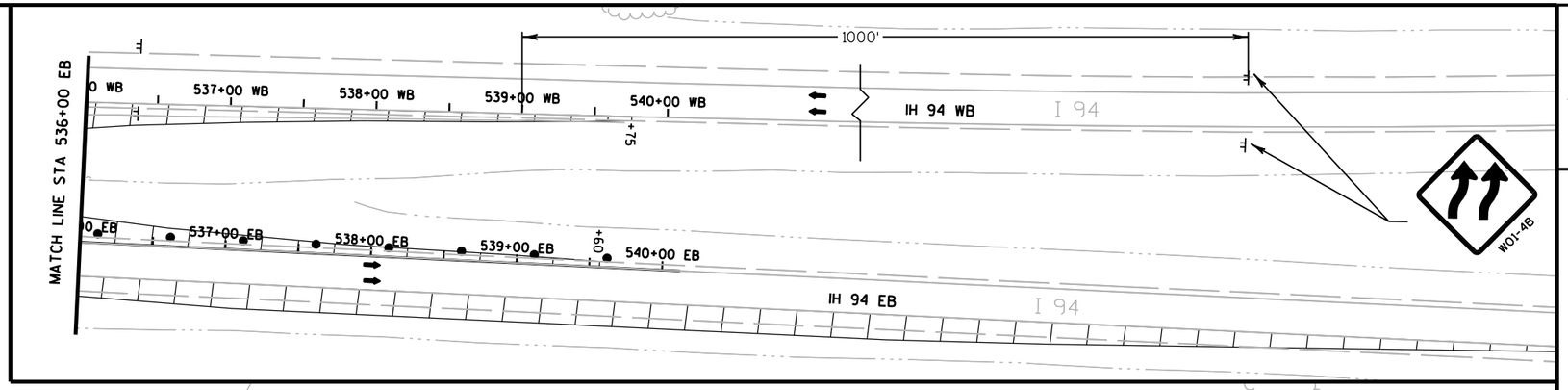
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

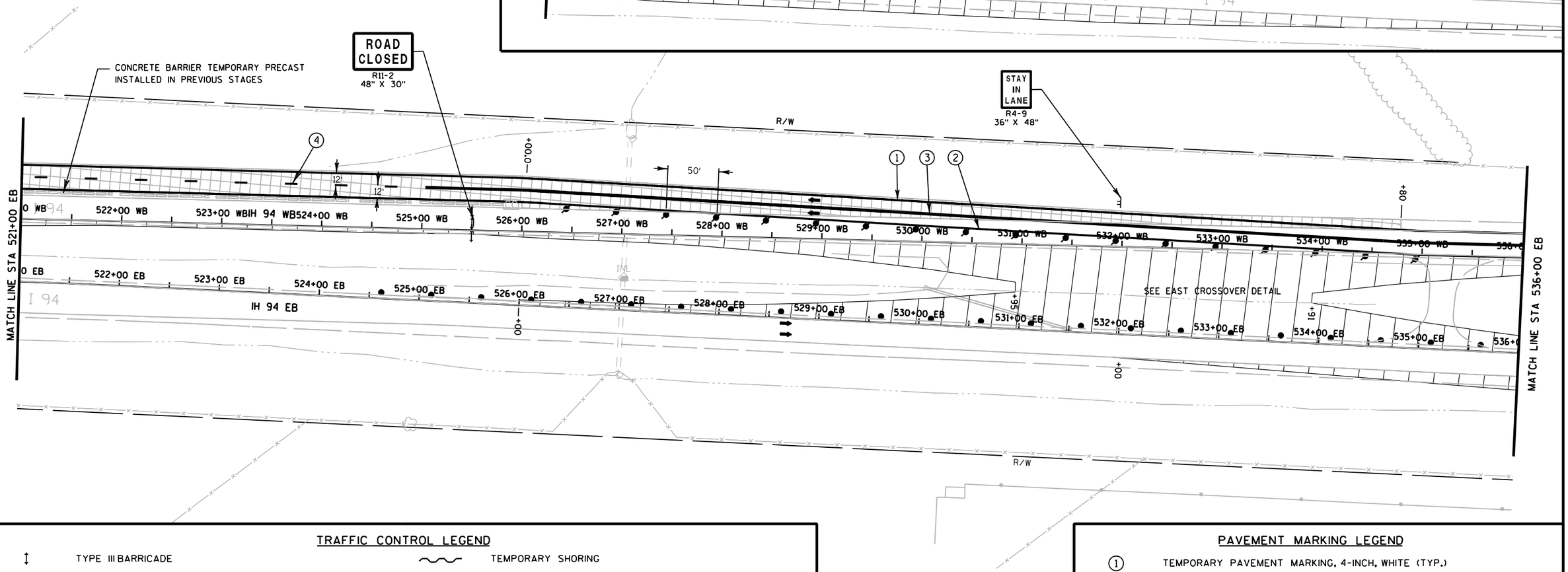
PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
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4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
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9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 1C (SHEET 8 OF 9)	SHEET 171	E

2





TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
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9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 1C (SHEET 9 OF 9)	SHEET 172	E

2

TRAFFIC

IH 94

IH 94 EB TRAFFIC TO MOVE TO THE EXISTING WB MAINLINE.

IH 94 WB TRAFFIC TO REMAIN ON THE STAGE 1A/1B TEMPORARY WB MAINLINE WIDENING.

IH 94/STH 65 EB RAMP TRAFFIC TO MOVE TO THE EXISTING EB MAINLINE DRIVING LANES AND THE EXISTING RAMPS.

IH 94/STH 65 WB EXIT RAMP TRAFFIC TO REMAIN ON THE STAGE 1B TEMPORARY WB EXIT C1-RAMP.

IH 94/STH 65 WB ENTRANCE RAMP TRAFFIC TO REMAIN ON THE STAGE 1A TEMPORARY WB ENTRANCE D1-RAMP.

STH 65

STH 65 TRAFFIC TO REMAIN ON EXISTING MAINLINE.

IH 94/STH 65 EB RAMP TRAFFIC TO REMAIN AT THE EXISTING RAMP INTERSECTION.

IH 94/STH 65 WB RAMP TRAFFIC TO REMAIN AT THE EXISTING RAMP INTERSECTION.

CONSTRUCTION

IH 94

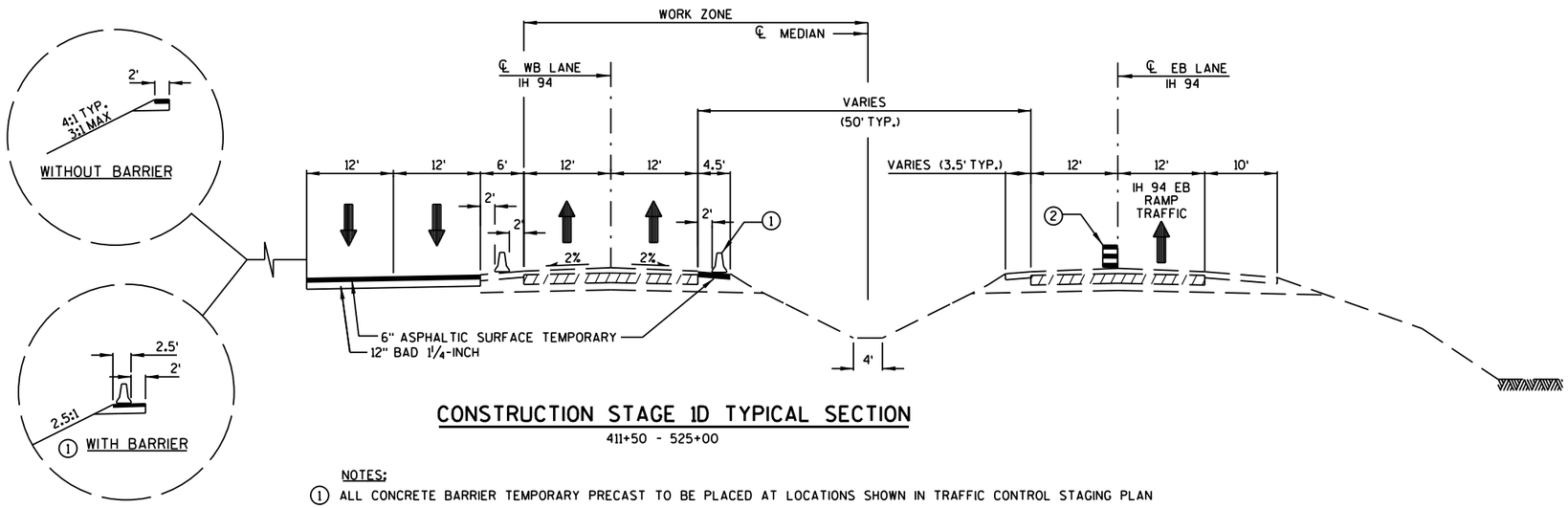
PLACE CONCRETE BARRIER TEMPORARY PRECAST ON THE
STAGE 1C MAINLINE WIDENING IH 94 WB RT STA 409+00WB - STA 491+35WB,
STA 491+75WB - STA 508+20WB, AND STA 508+15WB - STA 525+50WB

PLACE CONCRETE BARRIER TEMPORARY PRECAST ON THE
STAGE 1C MAINLINE WIDENING IH 94 WB LT STA 406+10WB - STA 413+40WB
AND STA 525+80WB - STA 532+50WB
SWITCH EB TRAFFIC TO THE EXISTING IH 94 WB MAINLINE.

COMPLETE THE STAGE 1D TEMPORARY EB EXIT A1-RAMP STA 491+60A1 - STA 495+50A1

COMPLETE THE STAGE 1D TEMPORARY EB ENTRANCE B1-RAMP STA 504+00B1 - STA 508+80B1

2



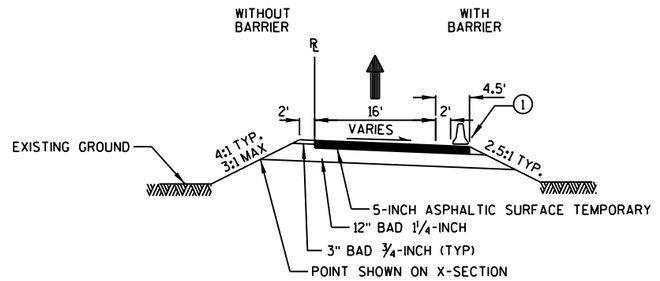
CONSTRUCTION STAGE 1D TYPICAL SECTION

411+50 - 525+00

NOTES;

① ALL CONCRETE BARRIER TEMPORARY PRECAST TO BE PLACED AT LOCATIONS SHOWN IN TRAFFIC CONTROL STAGING PLAN

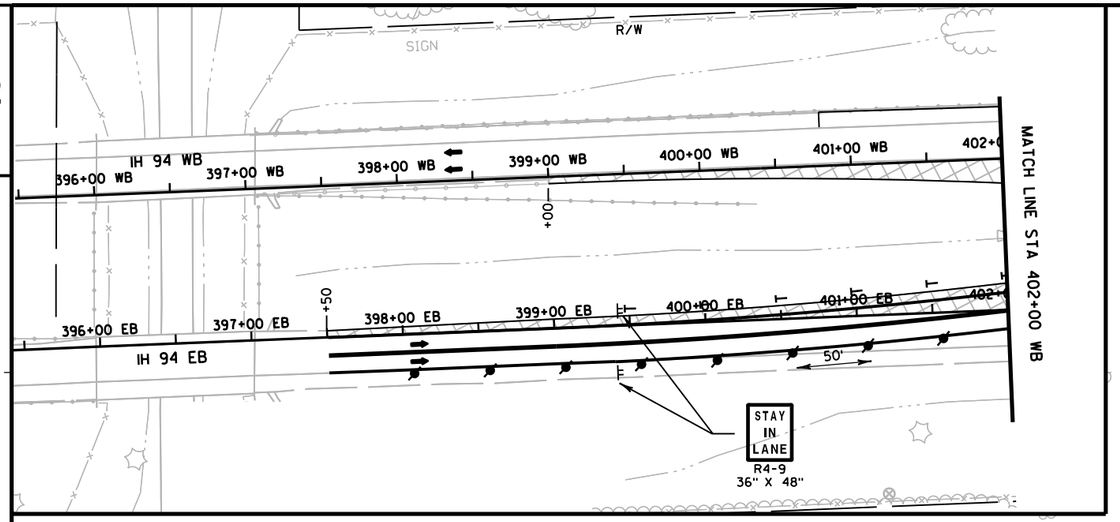
② ALL TRAFFIC CONTROL DRUMS TO BE PLACED AS SHOWN IN TRAFFIC CONTROL STAGING PLAN



TEMPORARY RAMP TYPICAL SECTION

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 1D TYPICAL SECTIONS	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\tc_All_Stages.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :
WISDOT/CADDS SHEET 42

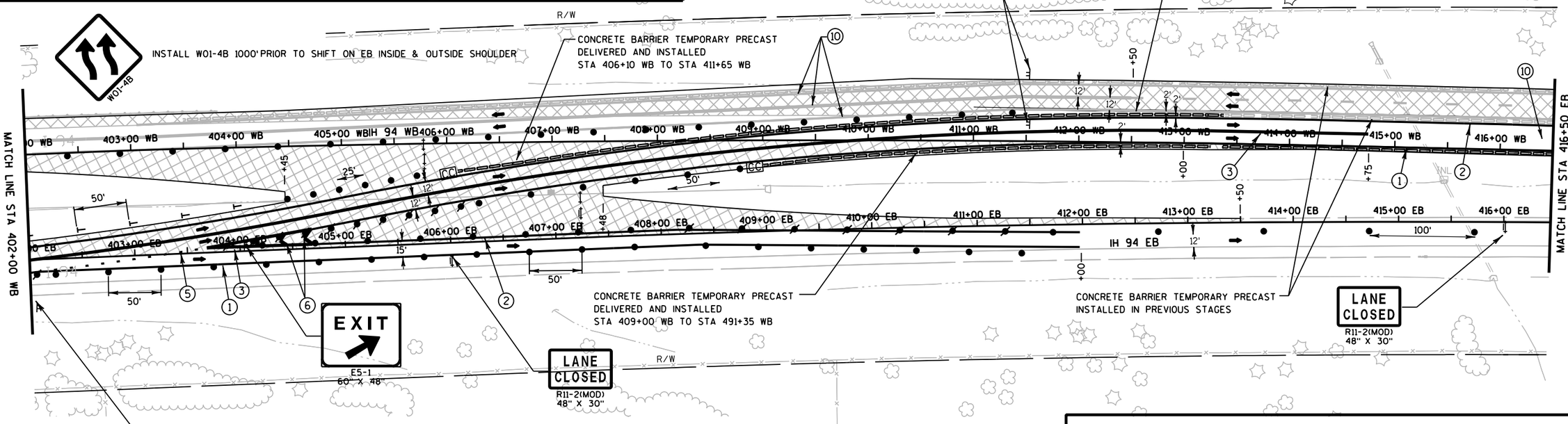


TRAFFIC CONTROL LEGEND

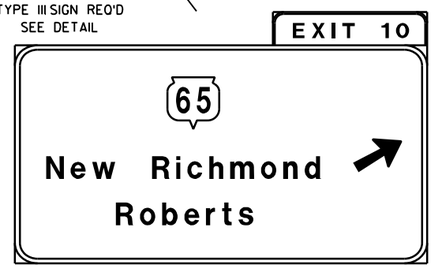
	TYPE III BARRICADE		TEMPORARY SHORING
	TYPE III BARRICADE WTH ATTACHED SIGN		CONCRETE BARRIER TEMPORARY PRECAST
	TRAFFIC CONTROL DRUM		CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		WORK AREA
	FLASHING ARROW BOARD		ASPHALTIC SURFACE TEMPORARY
	SIGN ON SUPPORT		HMA PAVEMENT
	DELINEATOR FLEXIBLE/TUBULAR MARKER		DIRECTION OF TRAFFIC
	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
			DELINEATORS TEMPORARY, DOUBLE SIDED

NOTE: SEE CROSS SECTIONS & LAYOUT DETAIL FOR ADDITIONAL INFORMATION
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

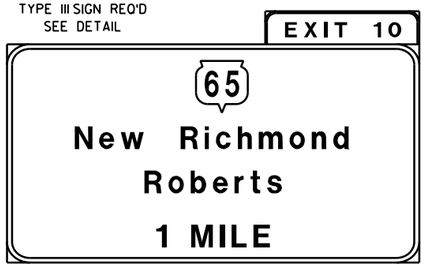
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TYPE III SIGN REQ'D
SEE DETAIL



TYPE III SIGN REQ'D
SEE DETAIL



INSTALL 1 MILE PRIOR TO EXIT
COVER EXISTING ADVANCED EXIT SIGN

TYPE III SIGN
SEE DETAIL

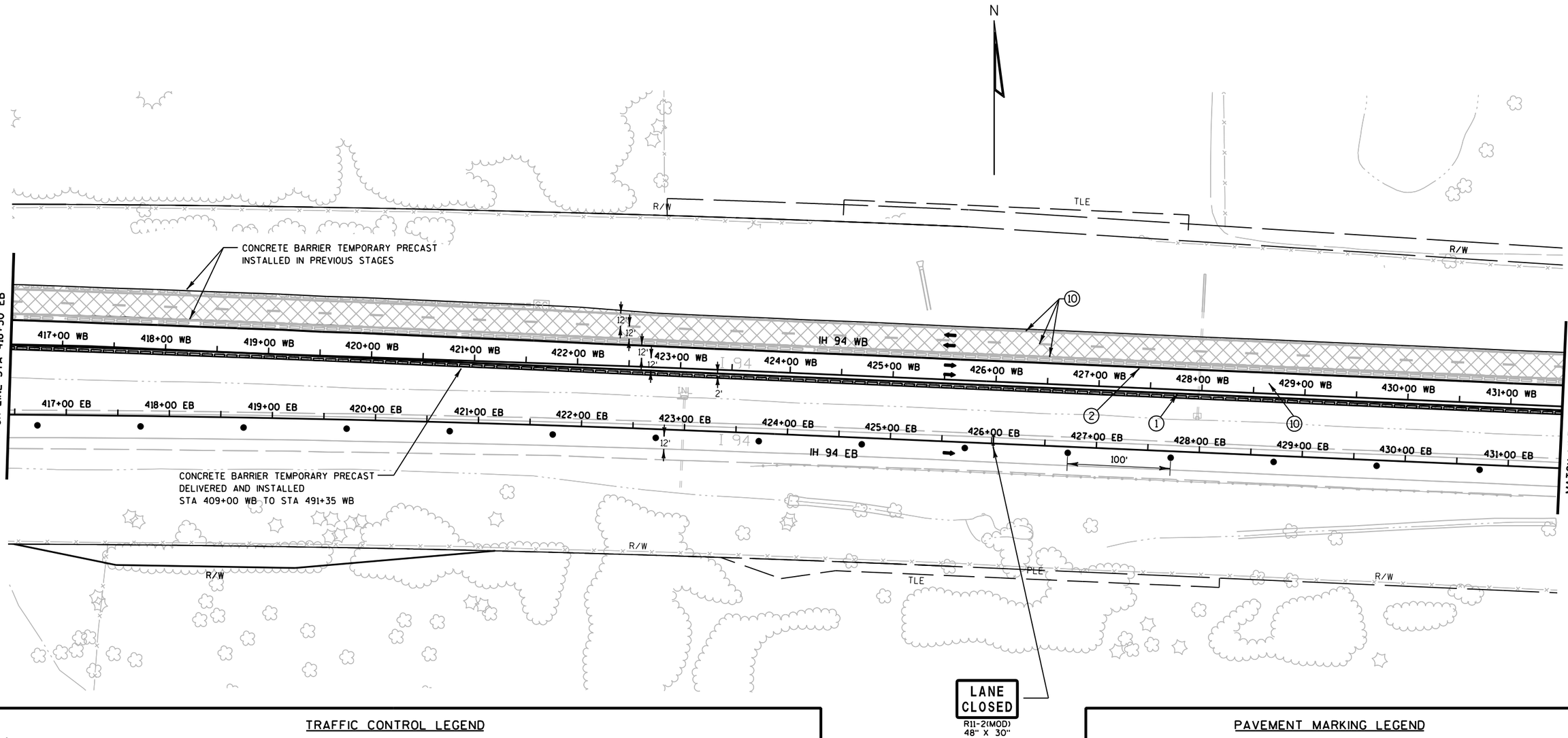


INSTALL 0.5 MILE PRIOR TO EXIT

PAVEMENT MARKING LEGEND

(1)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
(2)	TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
(3)	TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
(4)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(5)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
(6)	TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
(7)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
(8)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
(9)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(10)	EXISTING PAVEMENT MARKINGS TO REMAIN

2



TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	∿∿∿	TEMPORARY SHORING
↕	TYPE III BARRICADE WTH ATTACHED SIGN	▭▭▭	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▭▭▭	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
✐	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⇶	FLASHING ARROW BOARD	▨	ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▯	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

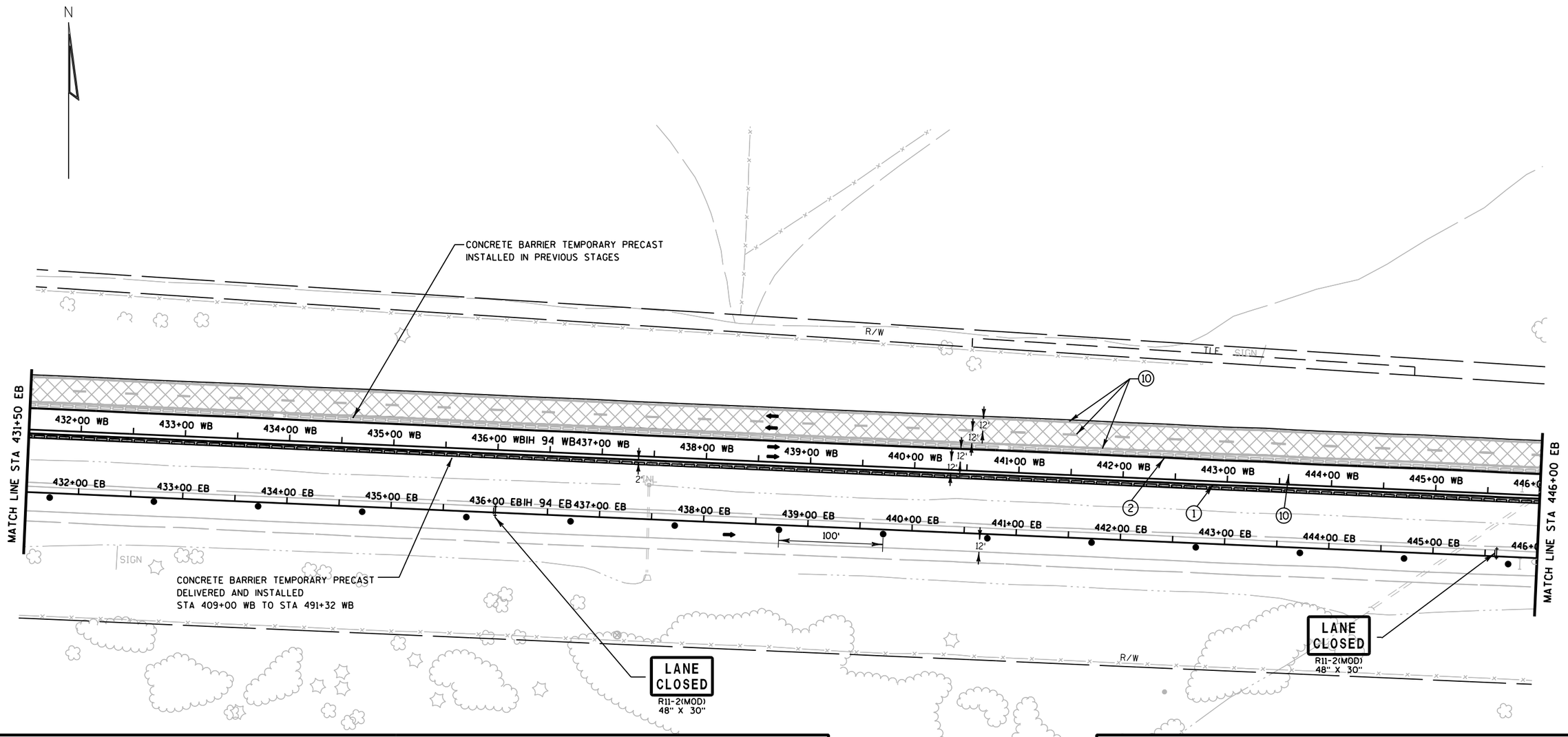
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

(1)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
(2)	TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
(3)	TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
(4)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(5)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
(6)	TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
(7)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
(8)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
(9)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(10)	EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 1D (SHEET 2 OF 9)	SHEET 175	E

2



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

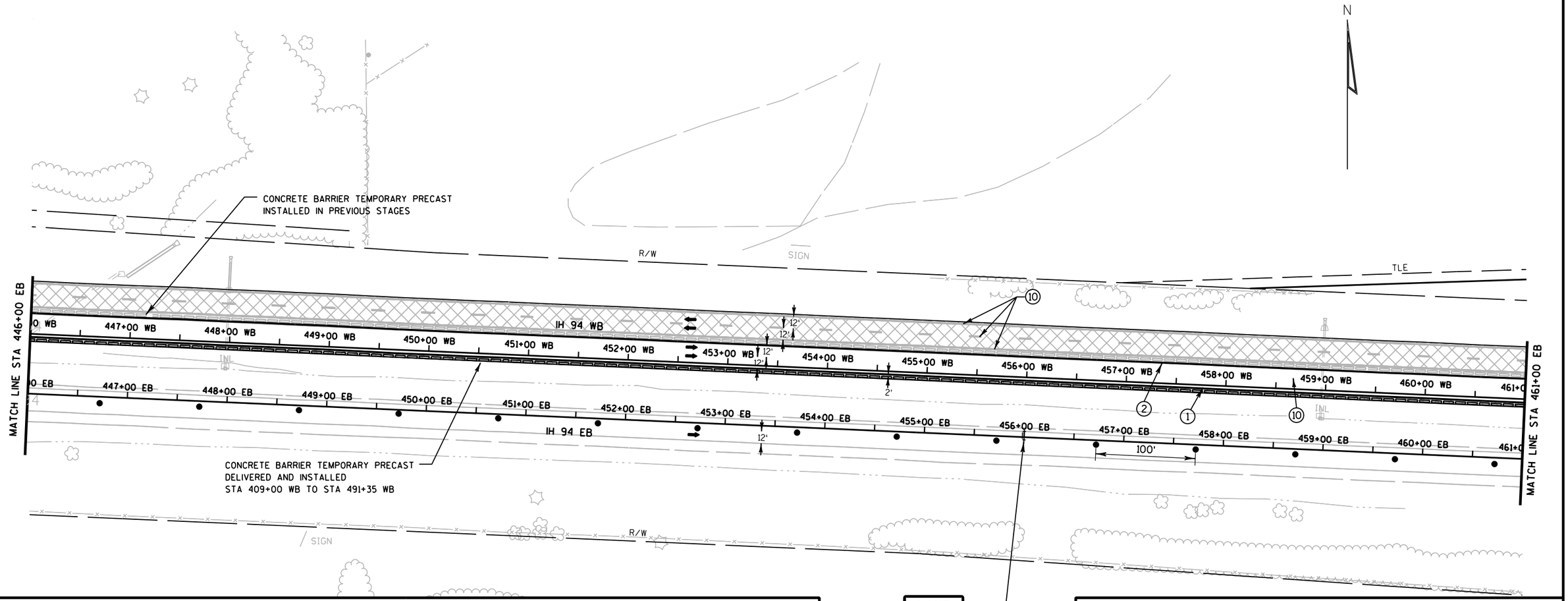
PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 1D (SHEET 3 OF 9)	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025047_tc_stage1D.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :
WISDOT/CADDS SHEET 42

2



TRAFFIC CONTROL LEGEND

TYPE III BARRICADE	TEMPORARY SHORING
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	WORK AREA
FLASHING ARROW BOARD	ASPHALTIC SURFACE TEMPORARY
SIGN ON SUPPORT	HMA PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	DIRECTION OF TRAFFIC
DELINEATORS TEMPORARY	MB TRAFFIC CONTROL SIGNS PCMS
TRAFFIC CONTROL VERTICAL PANELS	CC CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
	DELINEATORS TEMPORARY, DOUBLE SIDED

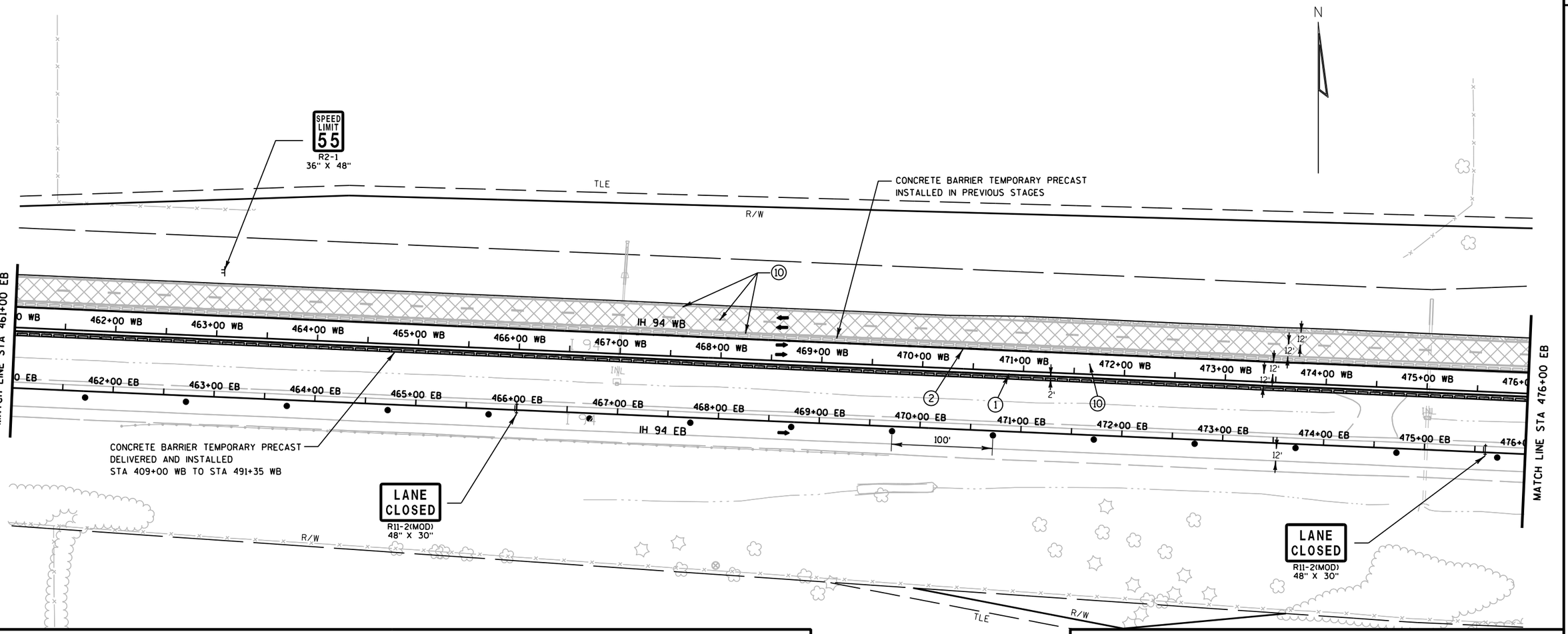
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 1D (SHEET 4 OF 9)	SHEET 177	E

2



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

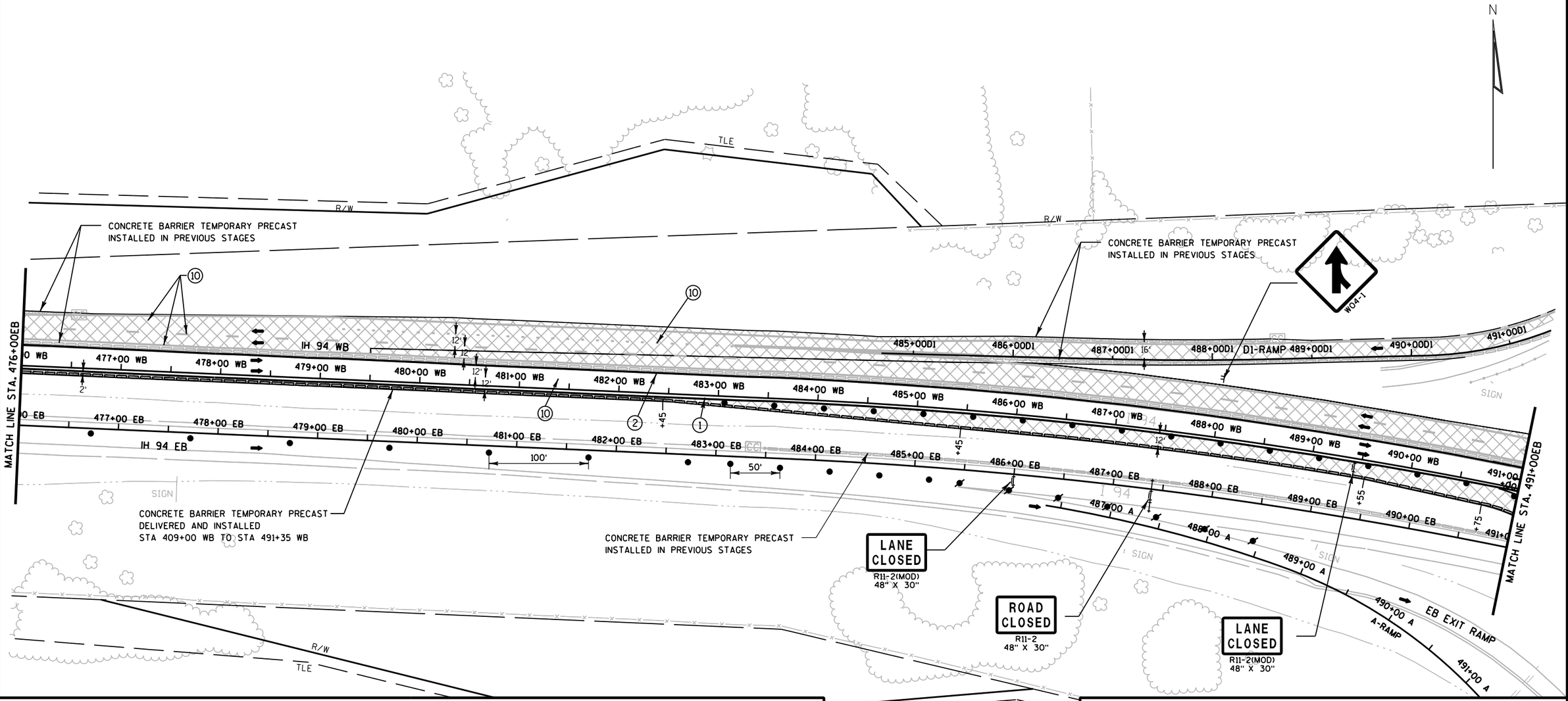
PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 1D (SHEET 5 OF 9)	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025049_tc_stage1D.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

2



TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	~~~	TEMPORARY SHORING
↕	TYPE III BARRICADE WTH ATTACHED SIGN	▭▭▭	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▭▭▭	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
✐	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
✳	FLASHING ARROW BOARD	▨	ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▯	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 1D (SHEET 6 OF 9)	SHEET 179	E

2

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN
11. TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE

N

492+00D1 D1-RAMP 493+00D1

492+00 D | 493+00 D | 494+00 D | 495+00 D | 496+00 D | 497+00 D | 498+00 D

CONCRETE BARRIER TEMPORARY PRECAST INSTALLED IN PREVIOUS STAGES

W01-2R
35 M.P.H.
W013-1
30" X 30"

SEE STH 65 TRAFFIC CONTROL PLAN FOR STH 65 TRAFFIC CONTROL ITEMS

MATCH LINE STA 491+00 EB

492+00 WB | 493+00 WB | 494+00 WB | 495+00 WB | 496+00 WB | 497+00 WB

492+00 EB | 493+00 EB | 494+00 EB | 495+00 EB | 496+00 EB | 497+00 EB

492+00A1 | 493+00A1 | 494+00A1 | 495+00A1

A1-RAMP

RAMP 'A'

492+00 A | 493+00 A | 494+00

A-RAMP

CONCRETE BARRIER TEMPORARY PRECAST DELIVERED AND INSTALLED
STA 409+00 WB TO 491+32 WB

STH 65

54+00S1 | 53+00S1 | 52+00S1 | 51+00S1 | 50+00S1 | 49+00S1 | 48+00S1

11' LANES UNDER BRIDGE
SEE TYPICAL SECTION

CONCRETE BARRIER TEMPORARY PRECAST INSTALLED IN PREVIOUS STAGES

CONCRETE BARRIER TEMPORARY PRECAST INSTALLED IN PREVIOUS STAGES

499+00 WB | 500+00 WB | 501+00 WB | 502+00 WB | 503+00 WB | 504+00 WB | 505+00 WB | 506+00 WB

499+00 EB | 500+00 EB | 501+00 EB | 502+00 EB | 503+00 EB | 504+00 EB | 505+00 EB | 506+00 EB

IH 94 WB

IH 94 EB

I 94

521+00C1 | 520+00C1 | 519+00C1 | 518+00C1 | 517+00C1

C1-RAMP

W1-8
18" X 24"

EXIT 10

65

River Falls
New Richmond

R/W

EXIT
E5-1
60" X 48"

CONCRETE BARRIER TEMPORARY PRECAST DELIVERED AND INSTALLED
STA 491+75 WB TO STA 508+20 WB

MATCH LINE STA 506+50 EB

SIGN

TRAFFIC CONTROL LEGEND

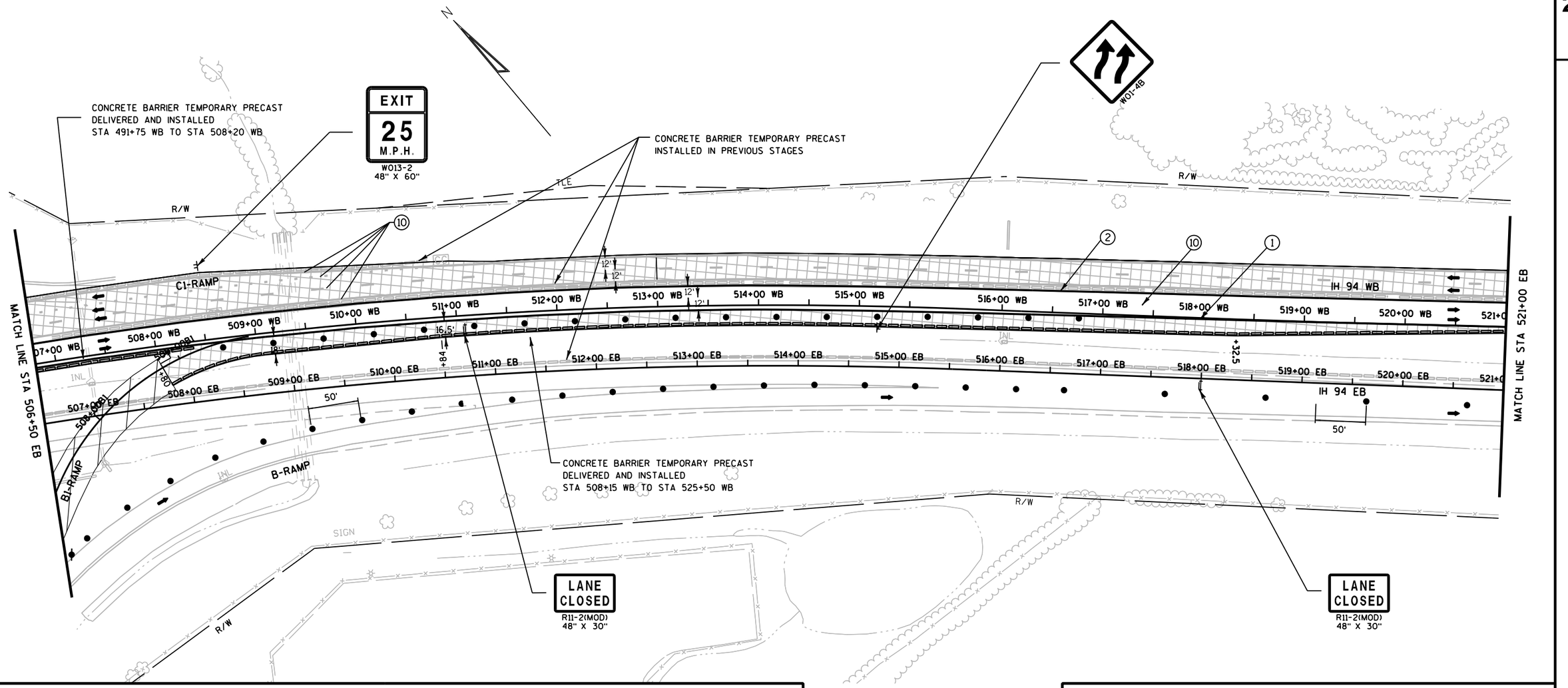
↕	TYPE III BARRICADE	~~~	TEMPORARY SHORING
↕	TYPE III BARRICADE WTH ATTACHED SIGN	▬▬	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▬▬	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⇶	FLASHING ARROW BOARD	▨	ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▯	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

SEE STAGE 1B FOR STH 65 TRAFFIC CONTROL.
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 1D (SHEET 7 OF 9)	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025051_tc_stage1D.dgn
PLOT DATE : 1/6/2012
PLOT BY : KL Engineering
PLOT NAME :
PLOT SCALE :
WISDOT/CADDS SHEET 42

2



TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	~~~	TEMPORARY SHORING
↕	TYPE III BARRICADE WTH ATTACHED SIGN	▭▭▭	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▭▭▭	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⇶	FLASHING ARROW BOARD	▨	ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▽	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

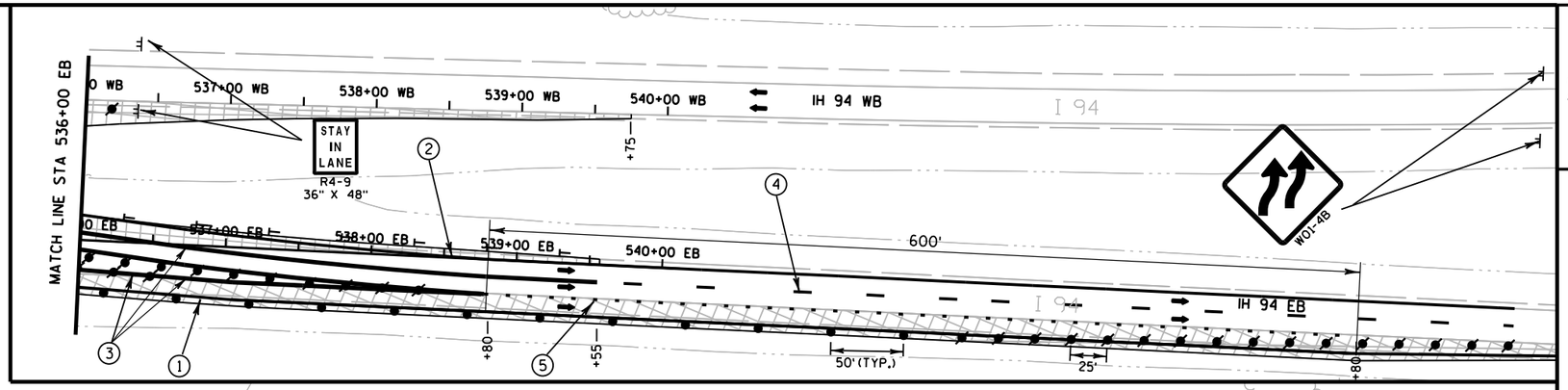
PAVEMENT MARKING LEGEND

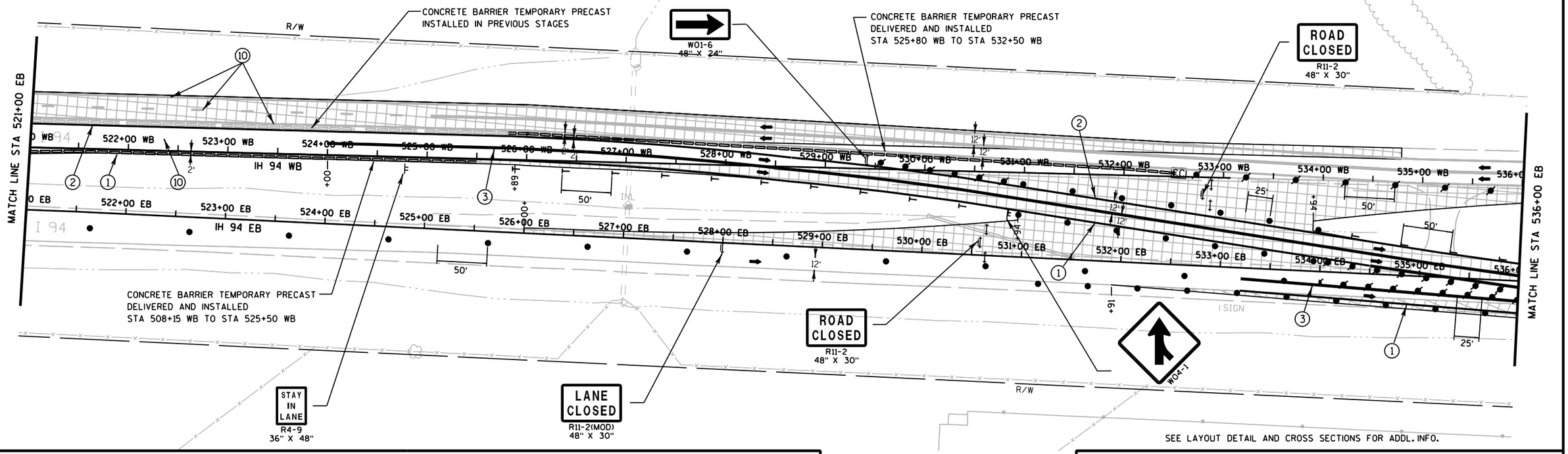
(1)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
(2)	TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
(3)	TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
(4)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(5)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
(6)	TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
(7)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
(8)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
(9)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(10)	EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 1D (SHEET 8 OF 9)	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025053_tc_stage1D.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :
WISDOT/CADDS SHEET 42

NOTE: SEE CROSS SECTIONS
FOR ADDITONAL CROSS OVER INFORMATION





SEE LAYOUT DETAIL AND CROSS SECTIONS FOR ADDL. INFO.

TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 1D (SHEET 9 OF 9)	SHEET 182	E

2

TRAFFIC

IH 94

IH 94 EB TRAFFIC TO REMAIN ON THE EXISTING WB MAINLINE.

IH 94 WB TRAFFIC TO REMAIN ON THE
STAGE 1A/1B TEMPORARY WB MAINLINE WIDENING.

IH 94/STH 65 EB EXIT RAMP TRAFFIC TO REMAIN ON THE
STAGE 1D TEMPORARY EB EXIT A1-RAMP.

IH 94/STH 65 EB ENTRANCE RAMP TRAFFIC TO REMAIN ON THE
STAGE 1D TEMPORARY EB ENTRANCE B1-RAMP.

IH 94/STH 65 WB EXIT RAMP TRAFFIC TO REMAIN ON THE
STAGE 1B TEMPORARY WB EXIT C1-RAMP.

IH 94/STH 65 WB ENTRANCE RAMP TRAFFIC TO REMAIN ON THE
STAGE 1A TEMPORARY WB ENTRANCE D1-RAMP.

STH 65

STH 65 TRAFFIC TO REMAIN ON EXISTING MAINLINE.

IH 94/STH 65 EB RAMP TRAFFIC TO REMAIN AT THE EXISTING RAMP INTERSECTION.

IH 94/STH 65 WB RAMP TRAFFIC TO REMAIN AT THE EXISTING RAMP INTERSECTION.

CONSTRUCTION

IH 94

PLACE CONCRETE BARRIER TEMPORARY PRECAST ON THE
STAGE 1D IH 94 EB TEMPORARY EXIT A1-RAMP
STA 491+55A1 RT - STA 497+40A1 RT
AND STA 491+75A1 LT - STA 493+55A1 LT

PLACE CONCRETE BARRIER TEMPORARY PRECAST ON THE
STAGE 1D IH 94 EB TEMPORARY ENTRANCE B1-RAMP
STA 505+05B1 LT - STA 508+95B1 LT
AND STA 506+90B1 RT - STA 508+75B1 RT

SWITCH EB EXIT RAMP TRAFFIC TO THE
STAGE 1D IH 94/STH 65 EB TEMPORARY EXIT A1-RAMP

SWITCH EB ENTRANCE RAMP TRAFFIC TO THE
STAGE 1D IH 94/STH 65 EB TEMPORARY ENTRANCE B1-RAMP

COMPLETE STAGE 2A MAINLINE IH 94 EB STA 413+00EB - STA 490+50EB AND STA 509+00EB - STA 525+00EB

COMPLETE STAGE 2A MAINLINE WIDENING IH 94 EB RT STA 400+00EB - STA 490+50EB
AND STA 509+00EB - STA 534+40EB
COMPLETE STAGE 2A WB TEMPORARY CROSSOVER XD ACCELERATION LANE IH 94 EB LT STA 425+00EB - STA 438+50XD
COMPLETE STAGE 2A EB TEMPORARY EXIT A2-RAMP STA 487+92A2 - STA 496+50A2

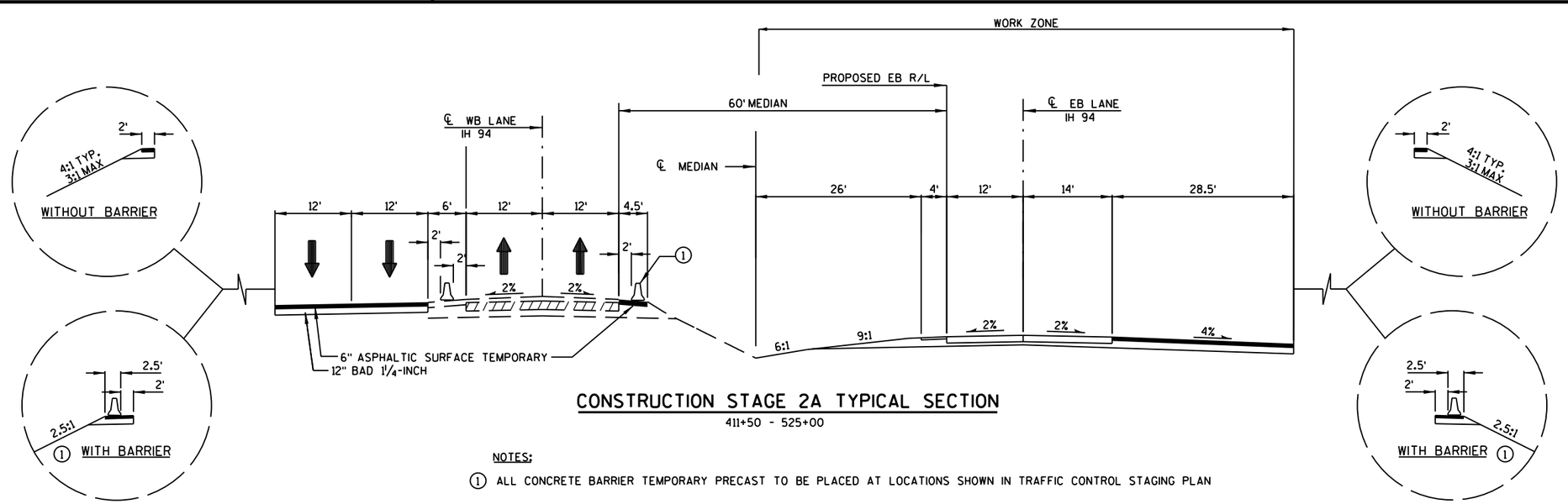
COMPLETE STAGE 2A EB TEMPORARY ENTRANCE B2-RAMP STA 504+52B2 - STA 510+45B2

COMPLETE STAGE 2A WB TEMPORARY EXIT C2-RAMP AND DECELERATION LANE STA 502+50C2 - STA 503+72C2,
STA 503+72EB - STA 506+00EB, AND STA 509+00EB - STA 511+00EB.

COMPLETE STAGE 2A WB TEMPORARY ENTRANCE D2-RAMP AND ACCELERATION LANE STA 475+00EB - STA 489+09EB,
AND STA 489+09D2 - STA 490+00D2

COMPLETE A-RAMP STA 486+35A - STA 493+50A

COMPLETE B-RAMP STA 511+00B - STA 513+85B

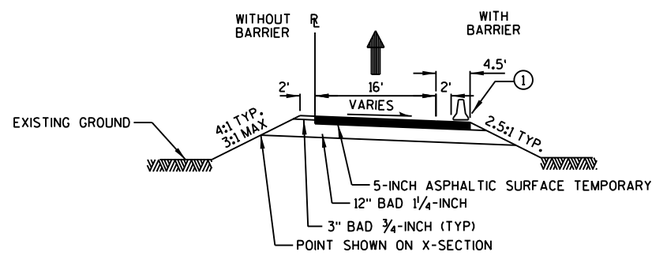


CONSTRUCTION STAGE 2A TYPICAL SECTION

411+50 - 525+00

NOTES:

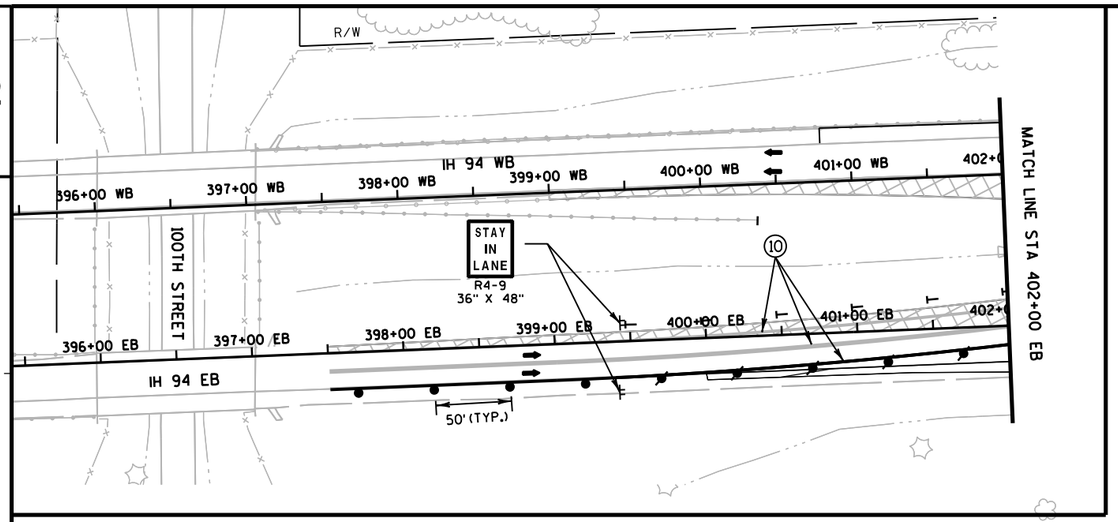
① ALL CONCRETE BARRIER TEMPORARY PRECAST TO BE PLACED AT LOCATIONS SHOWN IN TRAFFIC CONTROL STAGING PLAN

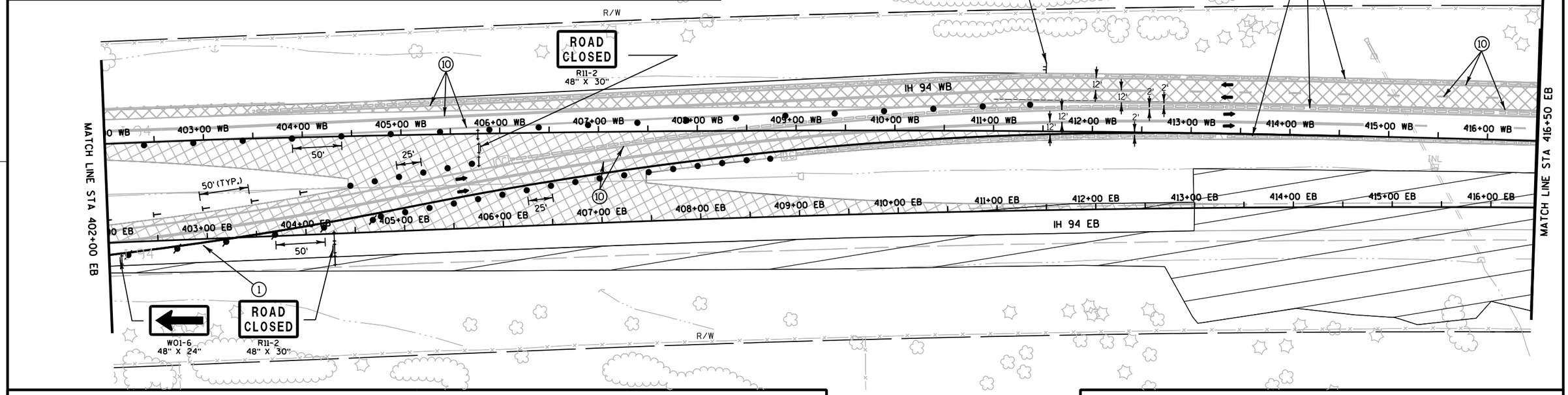


TEMPORARY RAMP TYPICAL SECTION

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 2A TYPICAL SECTIONS	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\tc_All_Stages.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :
WISDOT/CADDS SHEET 42







INSTALL W01-4B 100' PRIOR TO SHIFT ON EB INSIDE & OUTSIDE SHOULDER

N

STAY IN LANE
R4-9
36" X 48"

CONCRETE BARRIER TEMPORARY PRECAST
INSTALLED IN PREVIOUS STAGES

TRAFFIC CONTROL LEGEND

TYPE III BARRICADE	TEMPORARY SHORING
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	WORK AREA
FLASHING ARROW BOARD	ASPHALTIC SURFACE TEMPORARY
SIGN ON SUPPORT	HMA PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	DIRECTION OF TRAFFIC
DELINEATORS TEMPORARY	MB TRAFFIC CONTROL SIGNS PCMS
TRAFFIC CONTROL VERTICAL PANELS	CC CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
	DELINEATORS TEMPORARY, DOUBLE SIDED

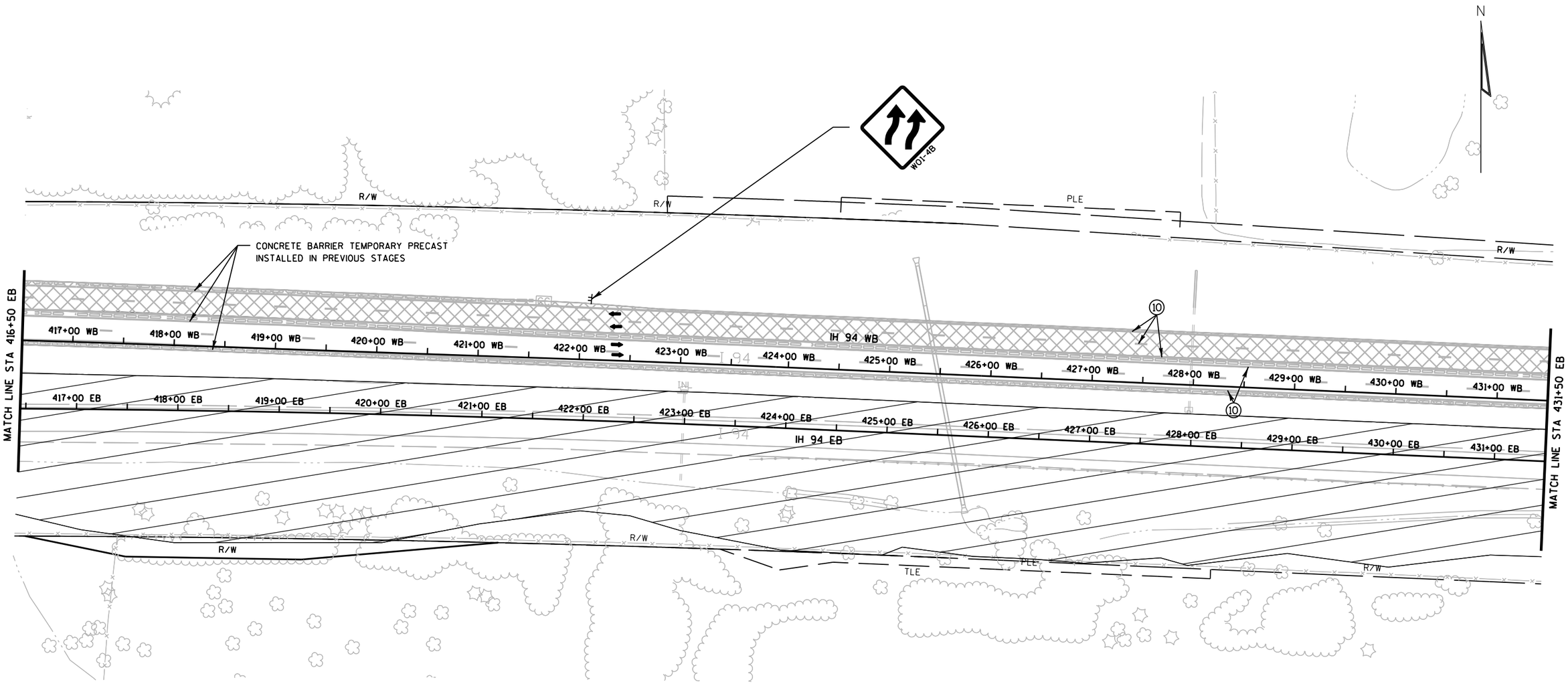
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 2A (SHEET 1 OF 10)	SHEET 184	E

2



TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	∿∿∿	TEMPORARY SHORING
↕	TYPE III BARRICADE WTH ATTACHED SIGN	▭▭▭	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▭▭▭	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
⚷	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⇶	FLASHING ARROW BOARD	▨	ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▯	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

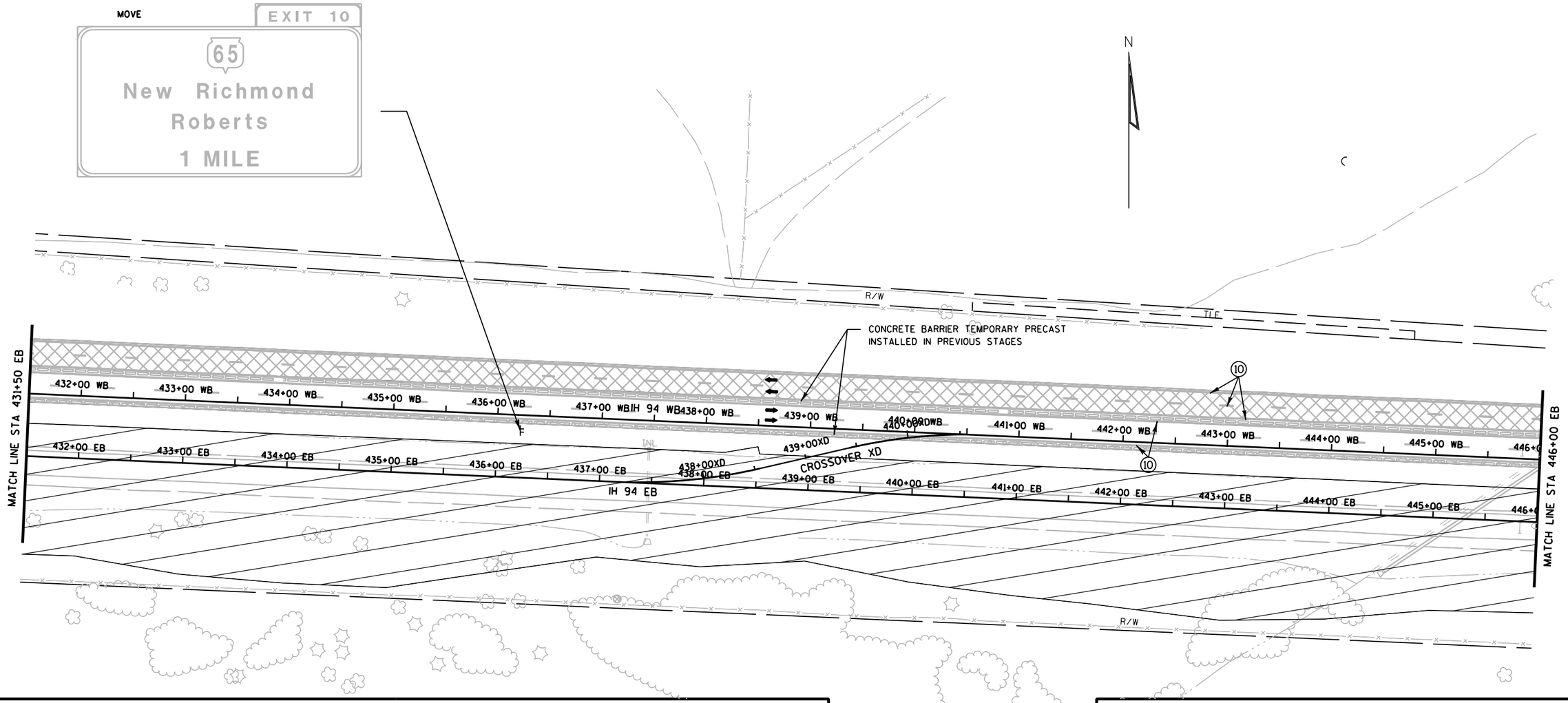
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

(1)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
(2)	TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
(3)	TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
(4)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(5)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
(6)	TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
(7)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
(8)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
(9)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(10)	EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 2A (SHEET 2 OF 10)	SHEET 185	E

2



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

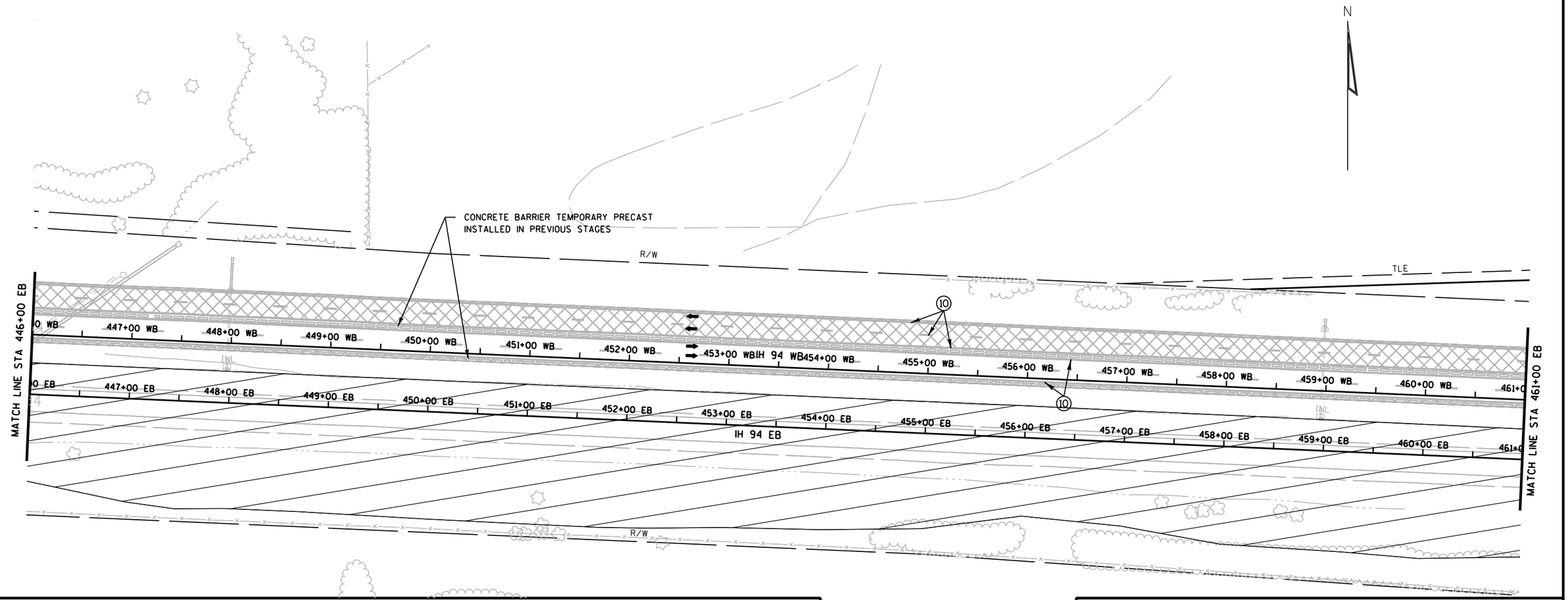
PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 2A (SHEET 3 OF 10)	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025069_tc_stage2A.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :
WISDOT/CADDS SHEET 42

2



TRAFFIC CONTROL LEGEND

TYPE III BARRICADE	TEMPORARY SHORING
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	WORK AREA
FLASHING ARROW BOARD	ASPHALTIC SURFACE TEMPORARY
SIGN ON SUPPORT	HMA PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	DIRECTION OF TRAFFIC
DELINEATORS TEMPORARY	TRAFFIC CONTROL SIGNS PCMS
TRAFFIC CONTROL VERTICAL PANELS	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
	DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 2A (SHEET 4 OF 10)	SHEET 187	E

2

MOVE

Wisconsin Indianhead
Technical College
EXIT 10

N

TLE

R/W

CONCRETE BARRIER TEMPORARY PRECAST
INSTALLED IN PREVIOUS STAGES

MATCH LINE STA 461+00 EB

0 WB 462+00 WB 463+00 WB 464+00 WB 465+00 WB 466+00 WB 467+00 WB 468+00 WB 469+00 WB 470+00 WB 471+00 WB 472+00 WB 473+00 WB 474+00 WB 475+00 WB 476+

0 EB 462+00 EB 463+00 EB 464+00 EB 465+00 EB 466+00 EB 467+00 EB 468+00 EB 469+00 EB 470+00 EB 471+00 EB 472+00 EB 473+00 EB 474+00 EB 475+00 EB 476+

IH 94 WB

IH 94 EB

MATCH LINE STA 476+00 EB

R/W

TLE

R/W

TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	~~~	TEMPORARY SHORING
↕	TYPE III BARRICADE WTH ATTACHED SIGN	▭▭▭	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▭▭▭	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⇶	FLASHING ARROW BOARD	▨	ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
⊽	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

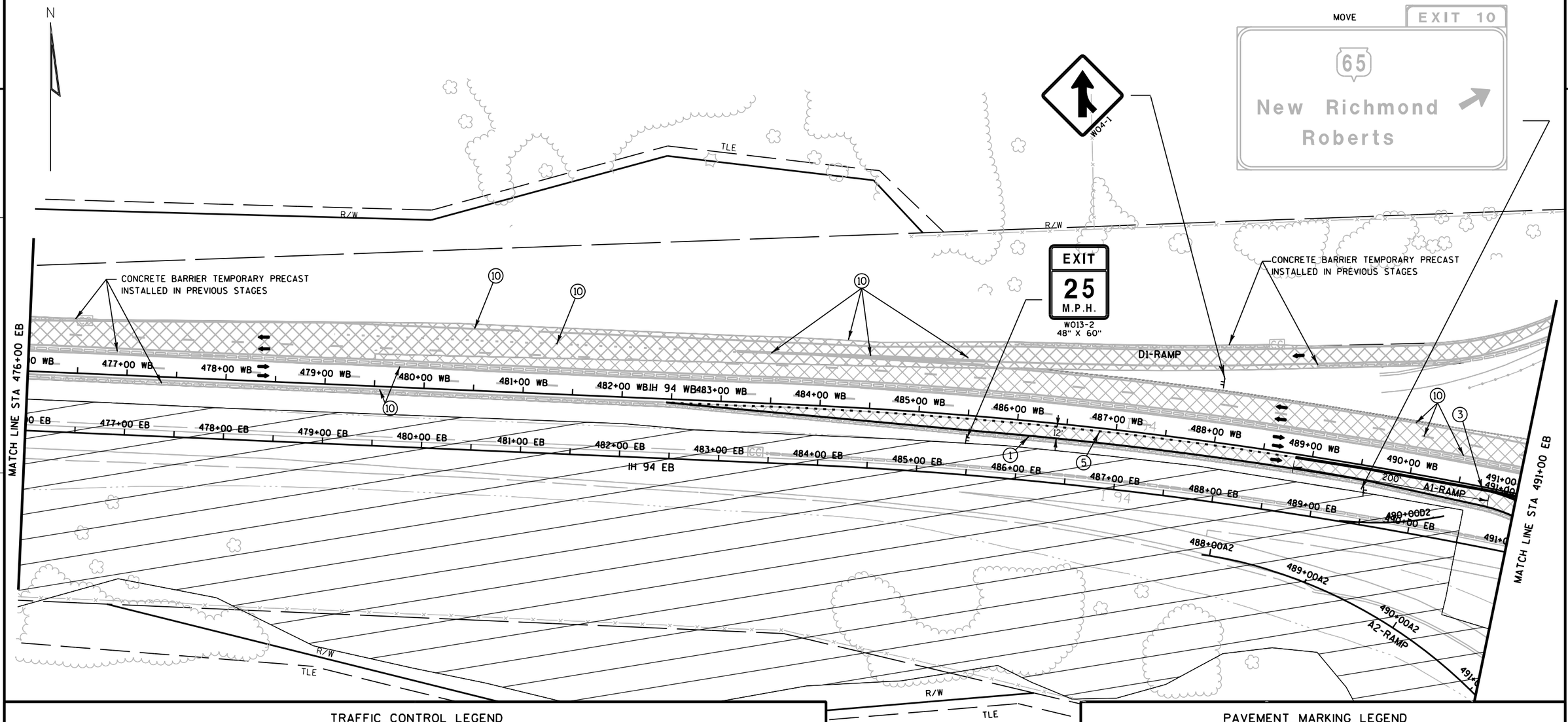
PAVEMENT MARKING LEGEND

(1)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
(2)	TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
(3)	TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
(4)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(5)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
(6)	TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
(7)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
(8)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
(9)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(10)	EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 2A (SHEET 5 OF 10)	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025071_tc_stage2A.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 42



TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	∿∿	TEMPORARY SHORING
↕	TYPE III BARRICADE WTH ATTACHED SIGN	▭▭▭	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▭▭▭	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⇶	FLASHING ARROW BOARD	▨	ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
⊽	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

(1)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
(2)	TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
(3)	TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
(4)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(5)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
(6)	TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
(7)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
(8)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
(9)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(10)	EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 2A (SHEET 6 OF 10)	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025072_tc_stage2A.dgn
PLOT DATE : 1/6/2012
PLOT BY : KL Engineering
PLOT NAME :
PLOT SCALE :
WISDOT/CADDS SHEET 42

TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

N

MATCH LINE STA 491+00 EB

D1-RAMP

196+00 D

497+00 D

D-RAMP

EXIT
E5-1
60" X 48"

STH 65

492+00 WB IH 94 WB 493+00 WB 494+00 WB 495+00 WB 496+00 WB 497+00 WB

492+00 EB 493+00 EB IH 94 EB 494+00 EB 495+00 EB 496+00 EB 497+00 EB

W1-8
18" X 24"

CONCRETE BARRIER TEMPORARY PRECAST
DELIVERED AND INSTALLED
STA 491+75 A1 TO STA 493+55 A1

W03-3

A1-RAMP

A2-RAMP

CONCRETE BARRIER TEMPORARY PRECAST
DELIVERED AND INSTALLED
STA 491+55 A1 TO STA 497+40 A1

SEE STH 65 TRAFFIC CONTROL PLAN FOR STH 65 TRAFFIC CONTROL ITEMS

A-RAMP

CONCRETE BARRIER TEMPORARY PRECAST
INSTALLED IN PREVIOUS STAGES

499+00 WB 500+00 WB 501+00 WB 502+00 WB 503+00 WB 504+00 WB 505+00 WB 506+00 WB 507+00 WB

499+00 EB 500+00 EB 501+00 EB 502+00 EB 503+00 EB 504+00 EB 505+00 EB 506+00 EB

C1-RAMP

TYPE III SIGN
(SEE DETAIL)

EXIT 10
65
River Falls
New Richmond

EXIT
E5-1
60" X 48"

W04-1

B1-RAMP

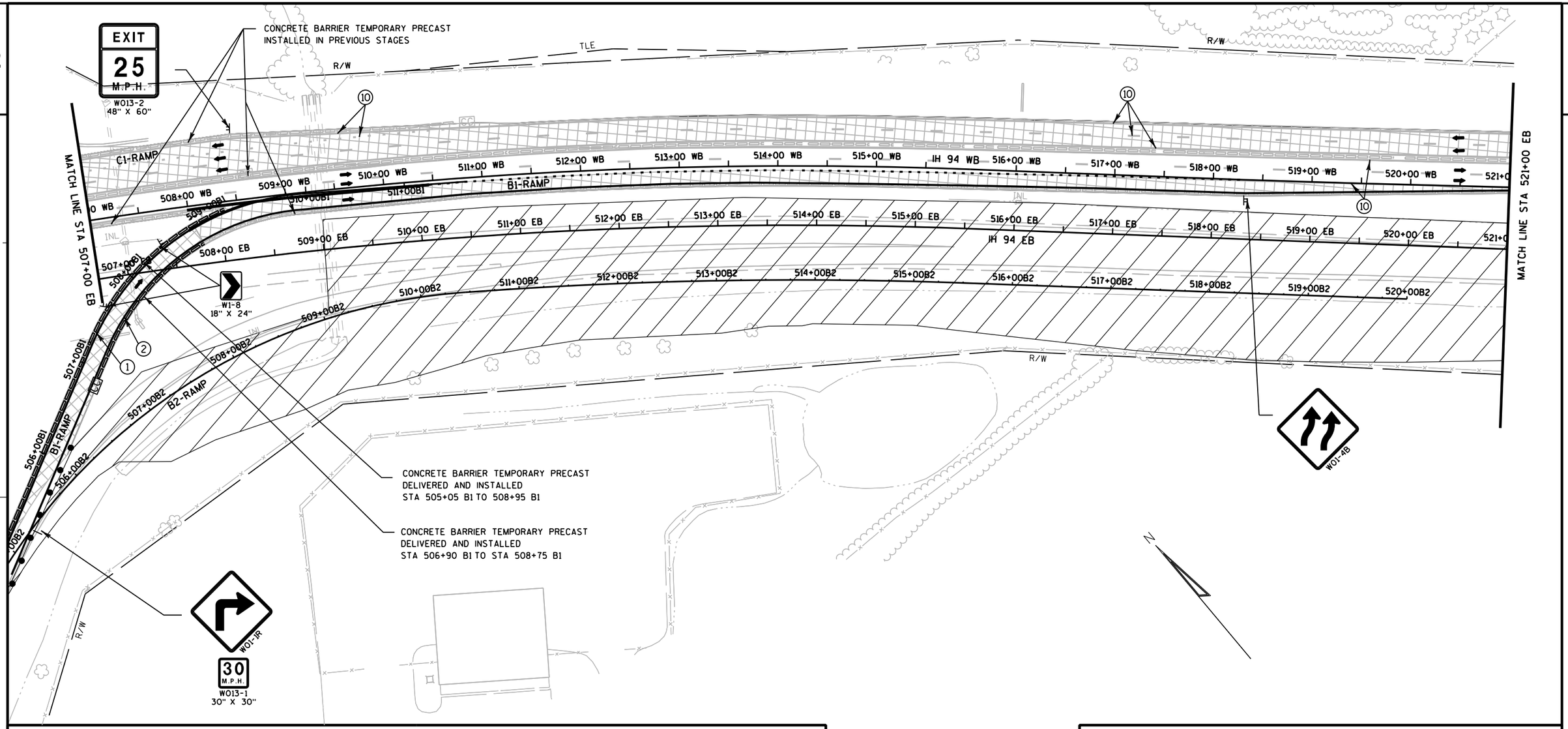
MATCH LINE STA 507+00 EB

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN
11. TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 2A (SHEET 7 OF 10)	SHEET E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025073_tc_stage2A.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :



TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	∿∿	TEMPORARY SHORING
⇕	TYPE III BARRICADE WTH ATTACHED SIGN	▭▭▭	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▭▭▭	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
✎	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⇶	FLASHING ARROW BOARD	▨	ASPHALTIC SURFACE TEMPORARY
⊦	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▯	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

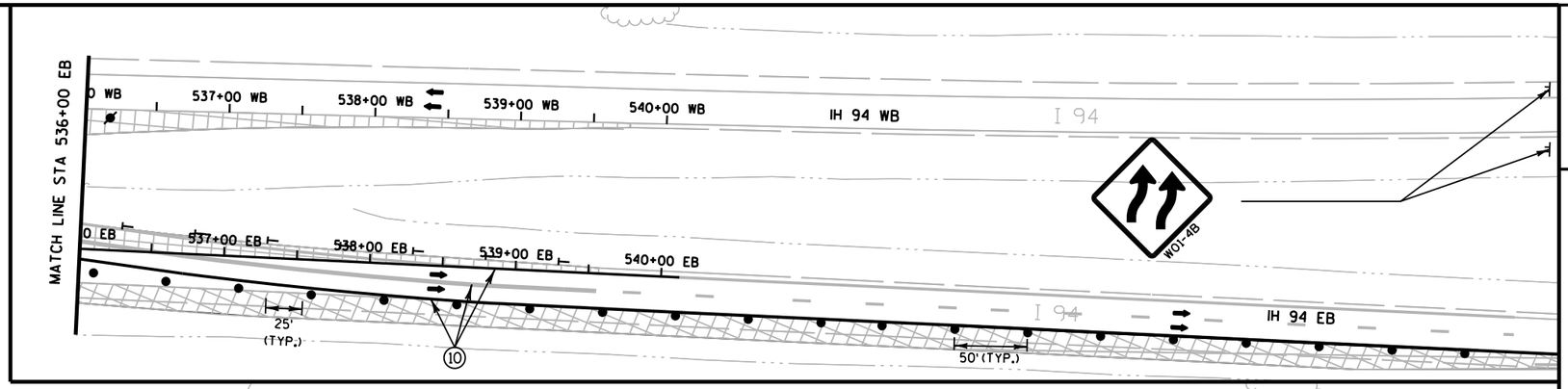
PAVEMENT MARKING LEGEND

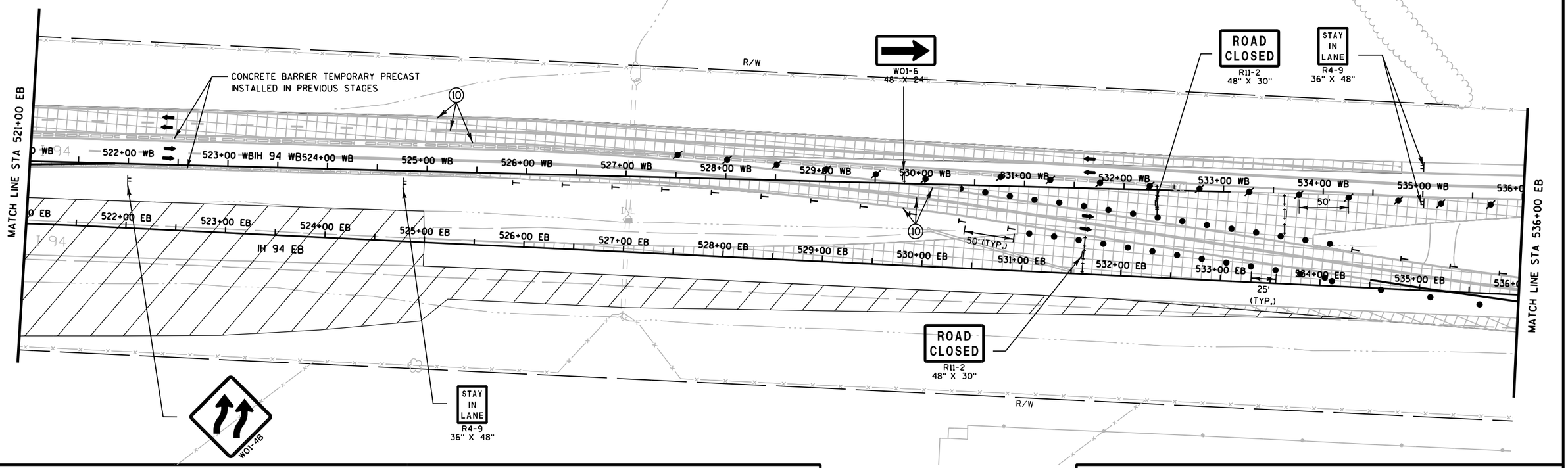
(1)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
(2)	TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
(3)	TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
(4)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(5)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
(6)	TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
(7)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
(8)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
(9)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(10)	EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 2A (SHEET 9 OF 10)	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025075_tc_stage2A.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :
WISDOT/CADDS SHEET 42

INSTALL W01-4B 100' PRIOR TO SHIFT ON EB OUTSIDE SHOULDER
AND WB INSIDE & OUTSIDE SHOULDER





TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 2A (SHEET 10 OF 10)	SHEET 192 E

2

TRAFFIC

IH 94

IH 94 EB TRAFFIC TO REMAIN ON THE EXISTING WB MAINLINE.

IH 94 WB TRAFFIC TO REMAIN ON THE STAGE 1A/1B TEMPORARY WB MAINLINE WIDENING.

IH 94/STH 65 EB EXIT RAMP TRAFFIC TO MOVE TO THE NEW EB MAINLINE DRIVING LANE AND THE STAGE 2A TEMPORARY EXIT A2-RAMP.

IH 94/STH 65 EB ENTRANCE RAMP TRAFFIC TO MOVE TO THE STAGE 2A TEMPORARY ENTRANCE B2-RAMP AND THE NEW EB MAINLINE DRIVING LANE.

IH 94/STH 65 WB EXIT RAMP TRAFFIC TO REMAIN ON THE STAGE 1B TEMPORARY WB EXIT C1-RAMP.

IH 94/STH 65 WB ENTRANCE RAMP TRAFFIC TO REMAIN ON THE STAGE 1A TEMPORARY WB ENTRANCE D1-RAMP.

STH 65

STH 65 TRAFFIC TO MOVE TO THE STAGE 1A-2A TEMPORARY WIDENING.

IH 94/STH 65 EB RAMP TRAFFIC TO MOVE TO STAGE 1A-2A TEMPORARY WIDENING RAMP INTERSECTION WITH TEMPORARY SIGNALS.

IH 94/STH 65 WB RAMP TRAFFIC TO MOVE TO STAGE 1A-2A TEMPORARY WIDENING RAMP INTERSECTION.

CONSTRUCTION

IH 94

PLACE CONCRETE BARRIER TEMPORARY PRECAST ON NEW
IH 94 EB LT STA 411+75EB - STA 438+50EB, STA 438+60EB - STA 490+10EB,
STA 502+95EB - STA 506+00EB, AND STA 509+00EB - STA 526+00EB.

PLACE CONCRETE BARRIER TEMPORARY PRECAST ON THE
STAGE 2A MAINLINE WIDENING IH 94 EB RT STA 412+45EB - STA 421+00EB,
STA 432+45EB - STA 435+95EB, STA 445+45EB - STA 455+00EB,
STA 470+45EB - STA 492+95EB, AND STA 496+00EB - 499+00EB.

COMPLETE STAGE 2B MAINLINE IH 94 EB STA 490+50EB - STA 509+00EB.

COMPLETE STAGE 2B MAINLINE WIDENING IH 94 EB RT STA 490+50EB - STA 509+00EB.

COMPLETE STAGE 2B WB EXIT C2-RAMP DECELERATION LANE STA 506+00EB - STA 509+00EB.

COMPLETE STAGE 2B WB TEMPORARY CROSSOVER STA 438+50XD - STA 440+10XD.

COMPLETE A-RAMP STA 495+00A - STA 497+00A.

COMPLETE B-RAMP STA 498+60B - STA 505+00B.

COMPLETE C-RAMP STA 496+50C - STA 497+00C.

STH 65

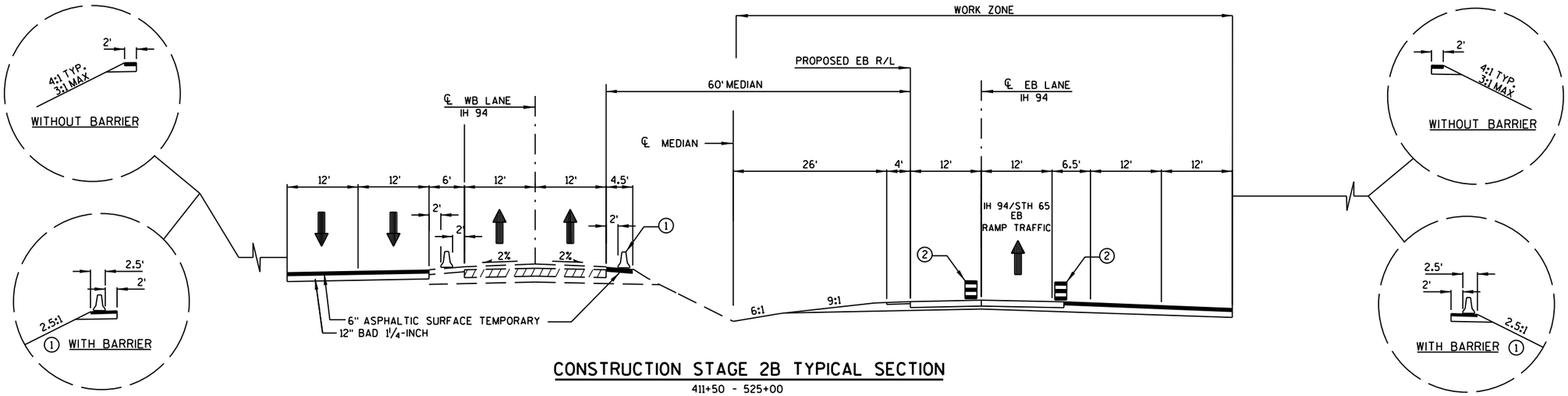
SWITCH TRAFFIC TO THE STH 65 STAGE 1A MAINLINE AND WIDENING.

REMOVE THE EXISTING STRUCTURE OVER IH 94.
COMPLETE STAGE 2B (EAST HALF) OF STRUCTURE B-55-0249.

COMPLETE MAINLINE STH 65 RT STA 33+10S - STA 42+40S,
STA 43+85S - STA 48+65S, STA 50+75S - STA 56+50S,
AND STA 57+40S - STA 64+00S

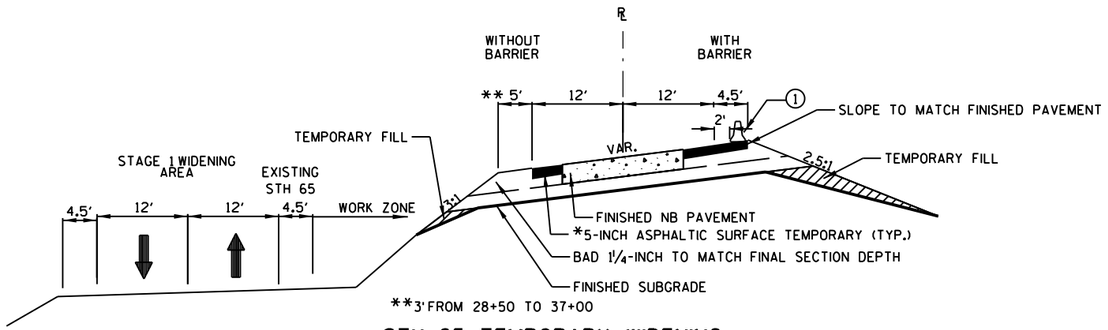
COMPLETE THE STAGE 1B TEMPORARY PAVEMENT STH 65 RT
STA 28+40S - STA 48+60S AND STA 50+75S - STA 68+00S

COMPLETE STAR LANE STA 10+25SL - STA 11+85SL



CONSTRUCTION STAGE 2B TYPICAL SECTION

411+50 - 525+00

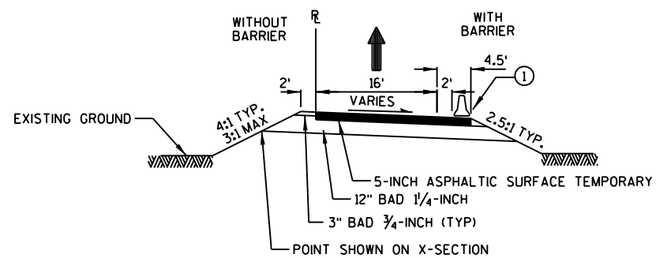


STH 65 TEMPORARY WIDENING

NOTES:

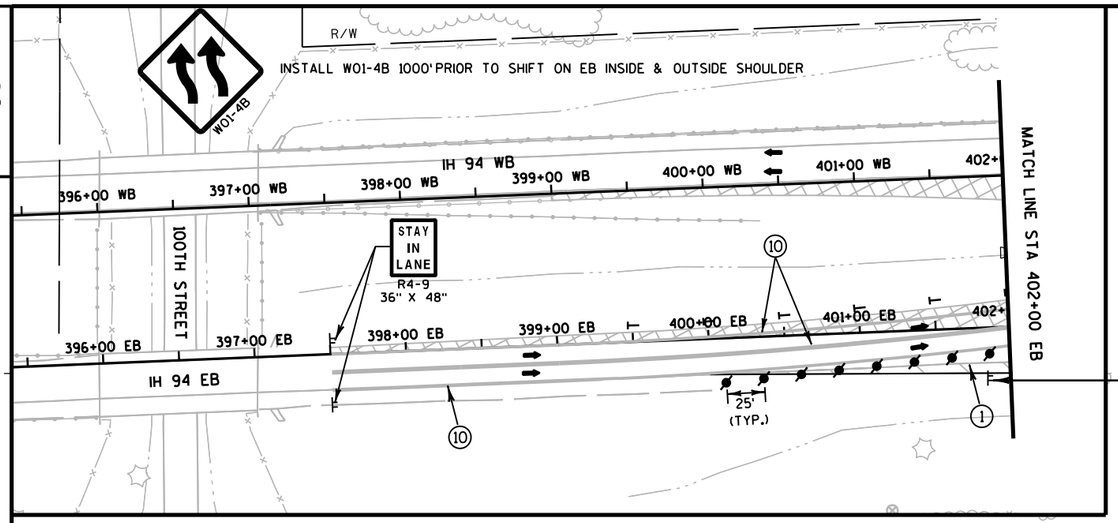
① ALL CONCRETE BARRIER TEMPORARY PRECAST TO BE PLACED AT LOCATIONS SHOWN IN TRAFFIC CONTROL STAGING PLAN

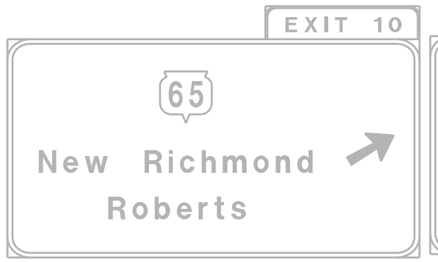
② ALL TRAFFIC CONTROL DRUMS TO BE PLACED AS SHOWN IN TRAFFIC CONTROL STAGING PLAN



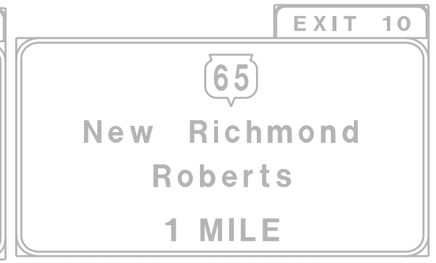
TEMPORARY RAMP TYPICAL SECTION

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 2B TYPICAL SECTIONS	SHEET 193	E





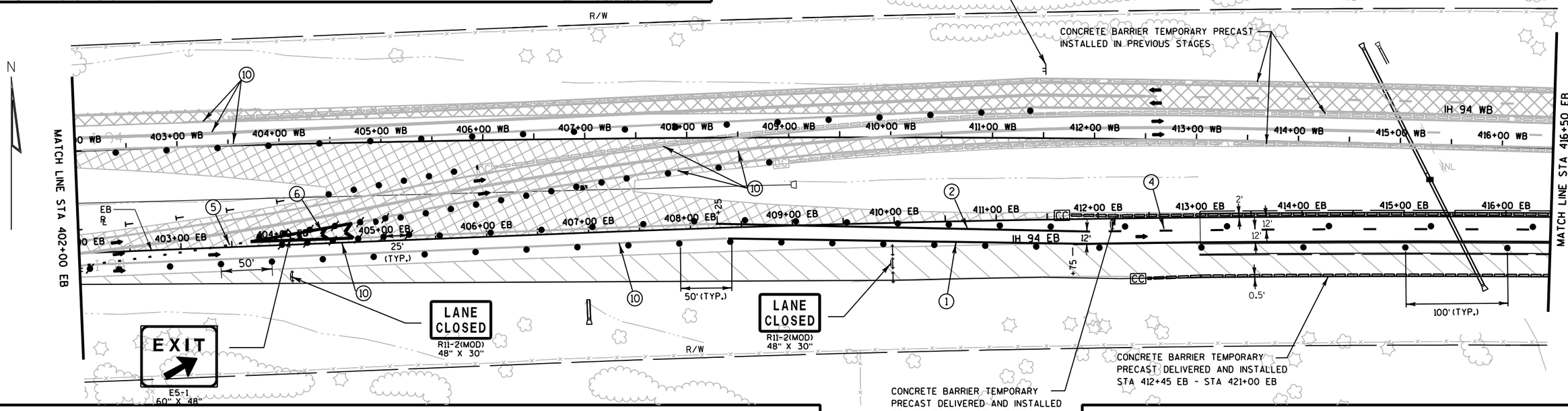
MOVE TYPE III SIGN



MOVE TYPE III SIGN 1 MILE PRIOR TO EXIT
COVER EXISTING ADVANCED EXIT SIGN

MOVE TYPE III SIGN 0.5 MILE PRIOR TO EXIT





TRAFFIC CONTROL LEGEND

TYPE III BARRICADE	TEMPORARY SHORING
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	WORK AREA
FLASHING ARROW BOARD	ASPHALTIC SURFACE TEMPORARY
SIGN ON SUPPORT	HMA PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	DIRECTION OF TRAFFIC
DELINEATORS TEMPORARY	MB TRAFFIC CONTROL SIGNS PCMS
TRAFFIC CONTROL VERTICAL PANELS	CC CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
	DELINEATORS TEMPORARY, DOUBLE SIDED

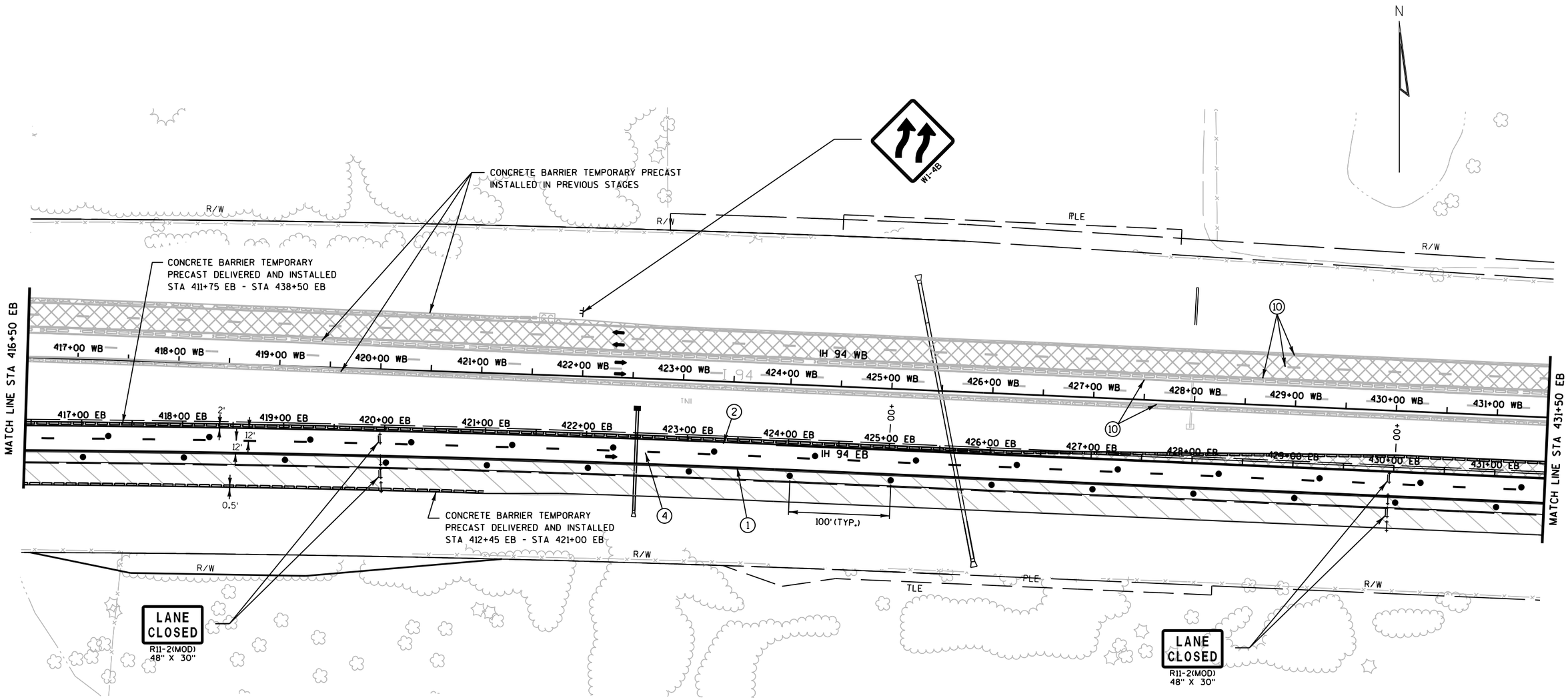
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2	TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3	TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6	TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10	EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 2B (SHEET 1 OF 9)	SHEET 194	E

2



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

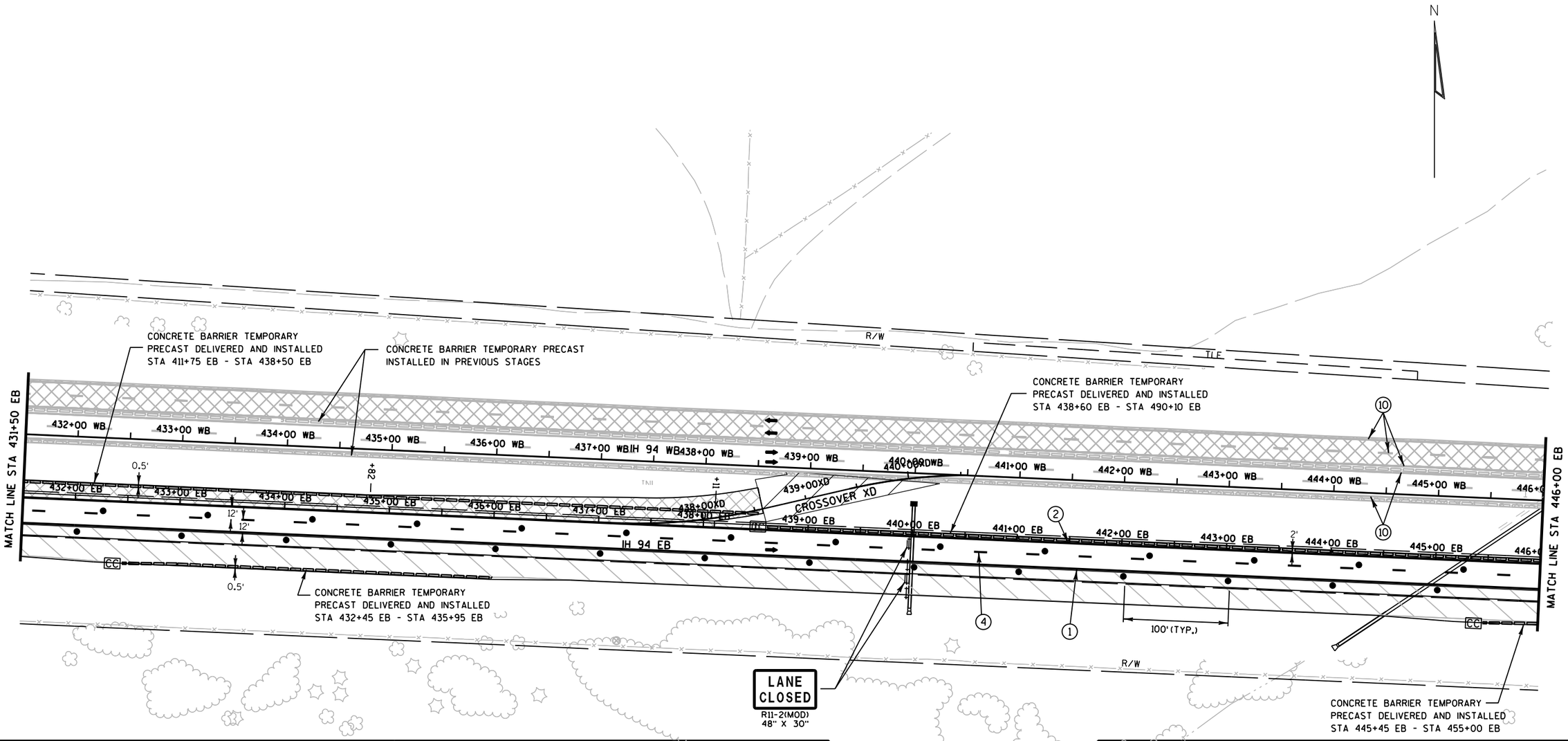
PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
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6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 2B (SHEET 2 OF 9)	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025080_tc_stage2B.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

2



TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	~~~	TEMPORARY SHORING
↕	TYPE III BARRICADE WTH ATTACHED SIGN	▭▭▭	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▭▭▭	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
✐	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⇶	FLASHING ARROW BOARD	▨	ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▽	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

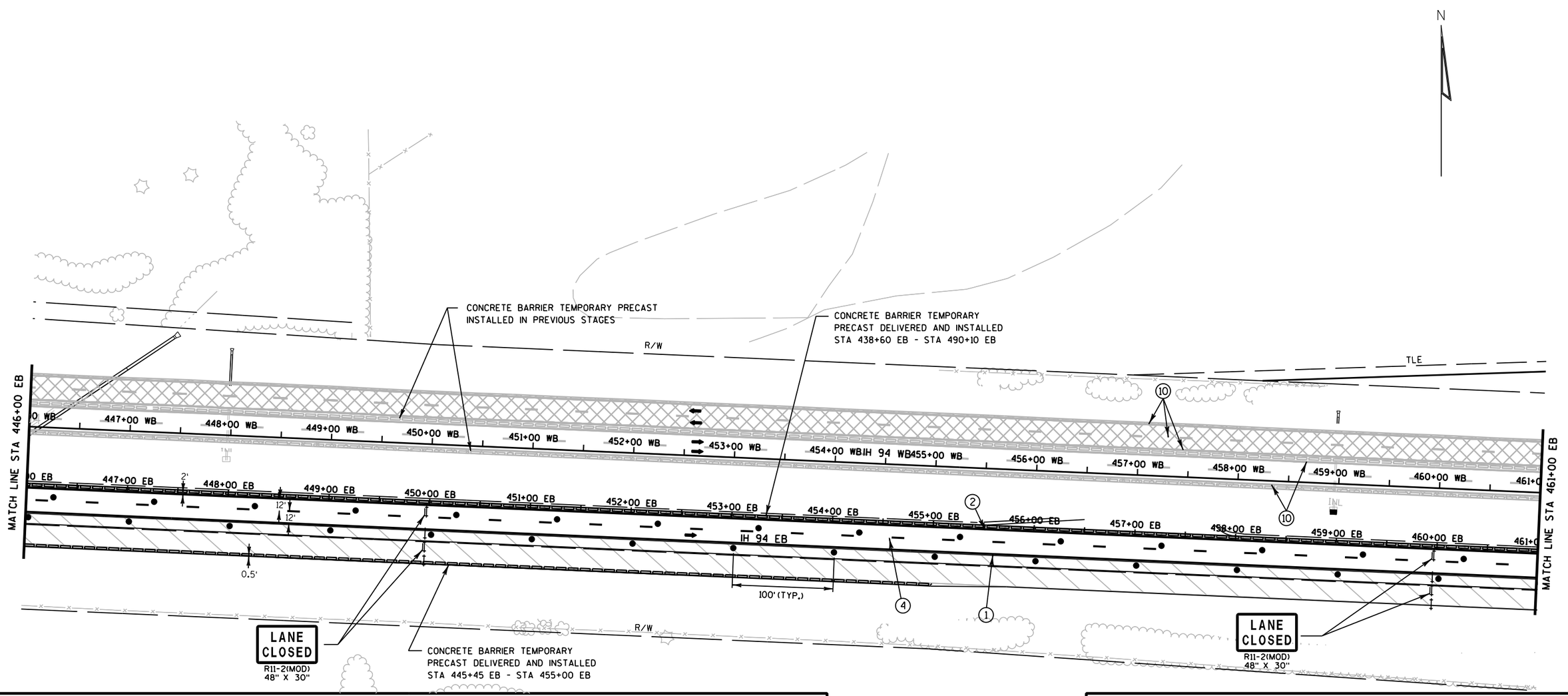
PAVEMENT MARKING LEGEND

(1)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
(2)	TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
(3)	TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
(4)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(5)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
(6)	TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
(7)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
(8)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
(9)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(10)	EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 2B (SHEET 3 OF 9)	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025081_tc_stage2B.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :
WISDOT/CADDS SHEET 42

2



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

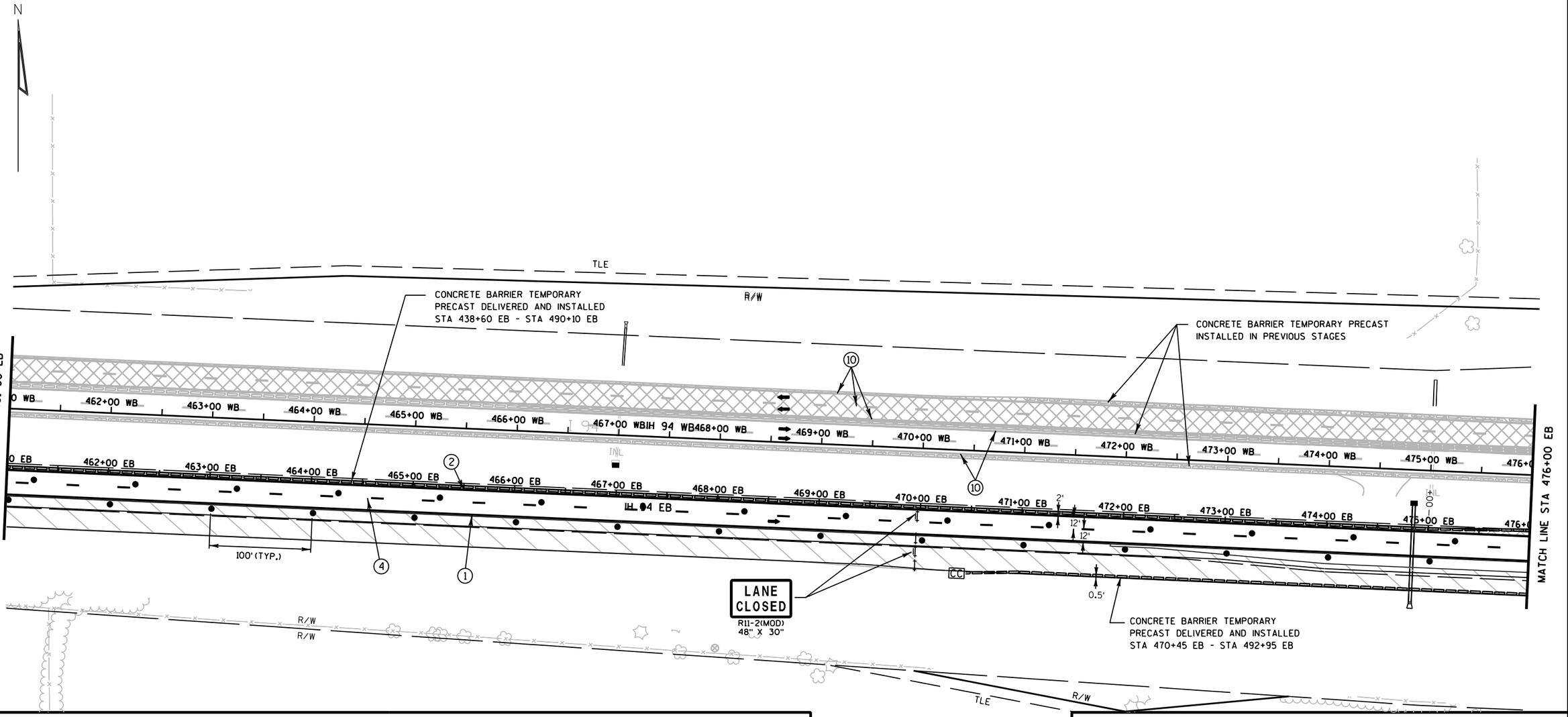
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
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7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
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9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 2B (SHEET 4 OF 9)	SHEET 197	E

2



TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	~~~	TEMPORARY SHORING
↕	TYPE III BARRICADE WTH ATTACHED SIGN	▬▬▬	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▬▬▬	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
✐	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⇶	FLASHING ARROW BOARD	▨	ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
⊽	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

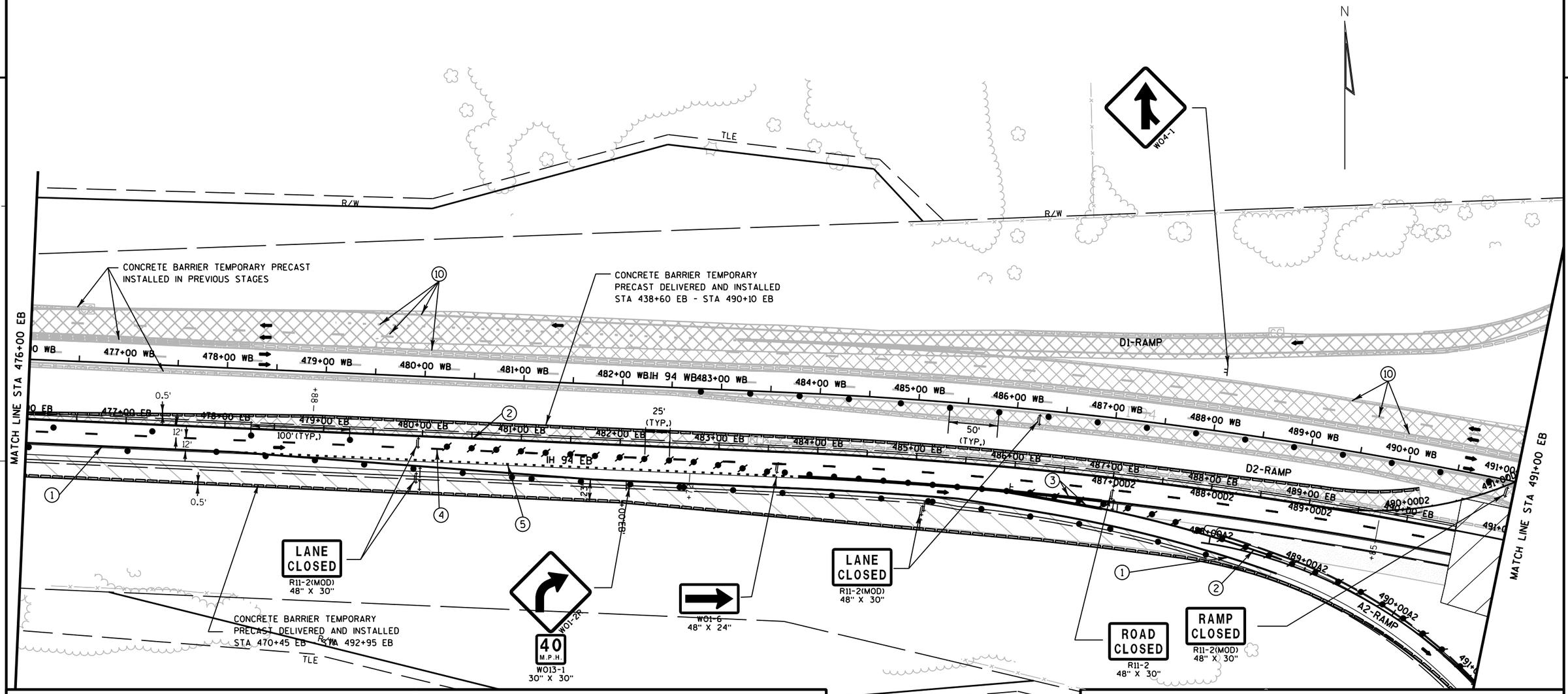
PAVEMENT MARKING LEGEND

(1)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
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(9)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(10)	EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 947	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 2B (SHEET 5 OF 9)	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025083_tc_stage2B.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :
WISDOT/CADDS SHEET 42

2



TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	∿∿	TEMPORARY SHORING
↕	TYPE III BARRICADE WTH ATTACHED SIGN	▭▭▭	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▭▭▭	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⇶	FLASHING ARROW BOARD	▨	ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▽	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

(1)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
(2)	TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
(3)	TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
(4)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(5)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
(6)	TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
(7)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
(8)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
(9)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(10)	EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 2B (SHEET 6 OF 9)	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025084_tc_stage2B.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

TRAFFIC CONTROL LEGEND

‡	TYPE III BARRICADE	~~~	TEMPORARY SHORING
‡	TYPE III BARRICADE WTH ATTACHED SIGN	▭▭▭	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▭▭▭	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
✳	FLASHING ARROW BOARD	▨	ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▽	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊢	DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

CONCRETE BARRIER TEMPORARY PRECAST INSTALLED IN PREVIOUS STAGES

CONCRETE BARRIER TEMPORARY PRECAST DELIVERED AND INSTALLED STA 470+45 EB - STA 492+95 EB

CONCRETE BARRIER TEMPORARY PRECAST INSTALLED IN PREVIOUS STAGES

SEE STH 65 TRAFFIC CONTROL PLAN FOR STH 65 TRAFFIC CONTROL ITEMS

RAMP CLOSED
R11-2(MOD)
48" X 30"

W1-8
30" X 36"

EXIT
E5-1
60" X 48"

W03-3

MATCH LINE STA 491+00 EB

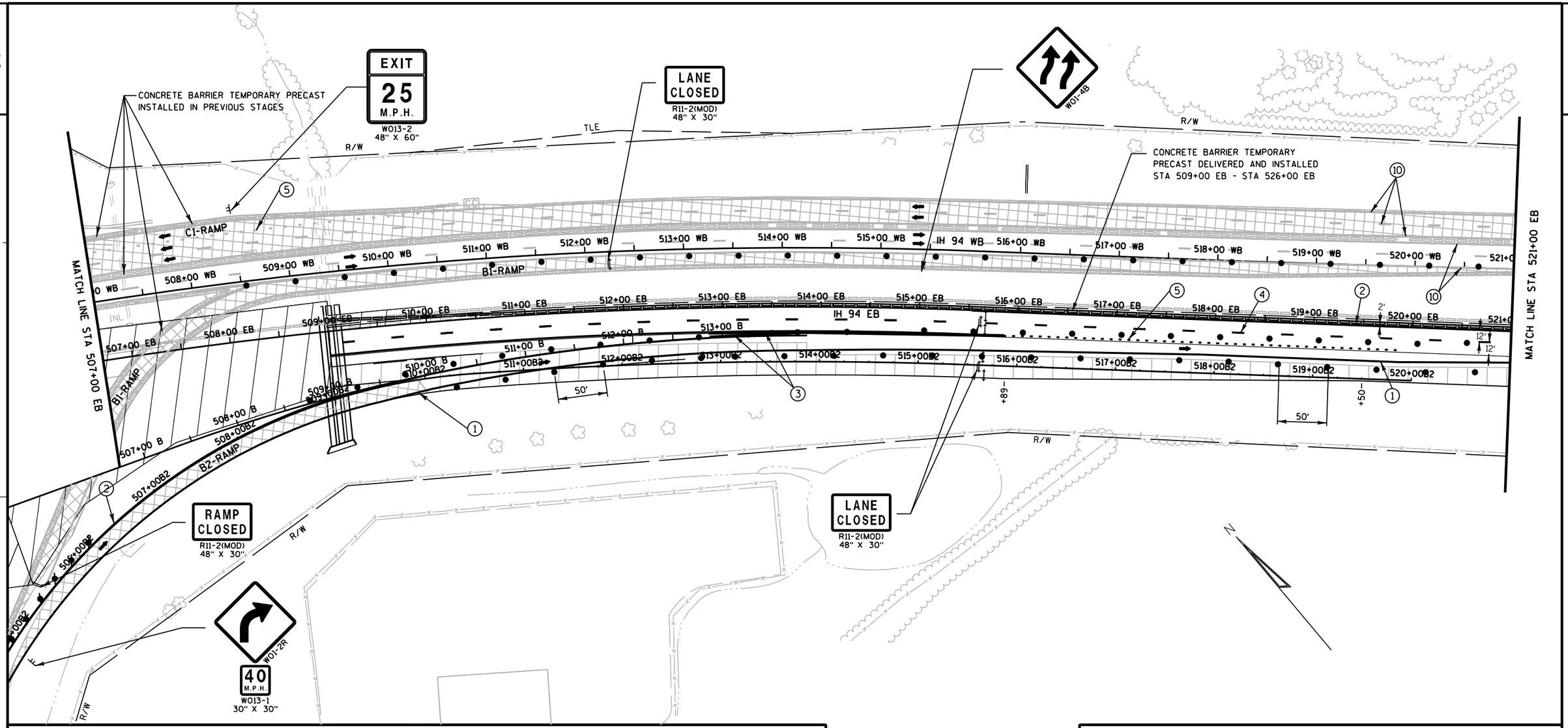
MATCH LINE STA 507+00 EB

PAVEMENT MARKING LEGEND

(1)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
(2)	TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
(3)	TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
(4)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(5)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
(6)	TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
(7)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
(8)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
(9)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(10)	EXISTING PAVEMENT MARKINGS TO REMAIN
(11)	TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 2B (SHEET 7 OF 9)	SHEET 200 E

2



TRAFFIC CONTROL LEGEND

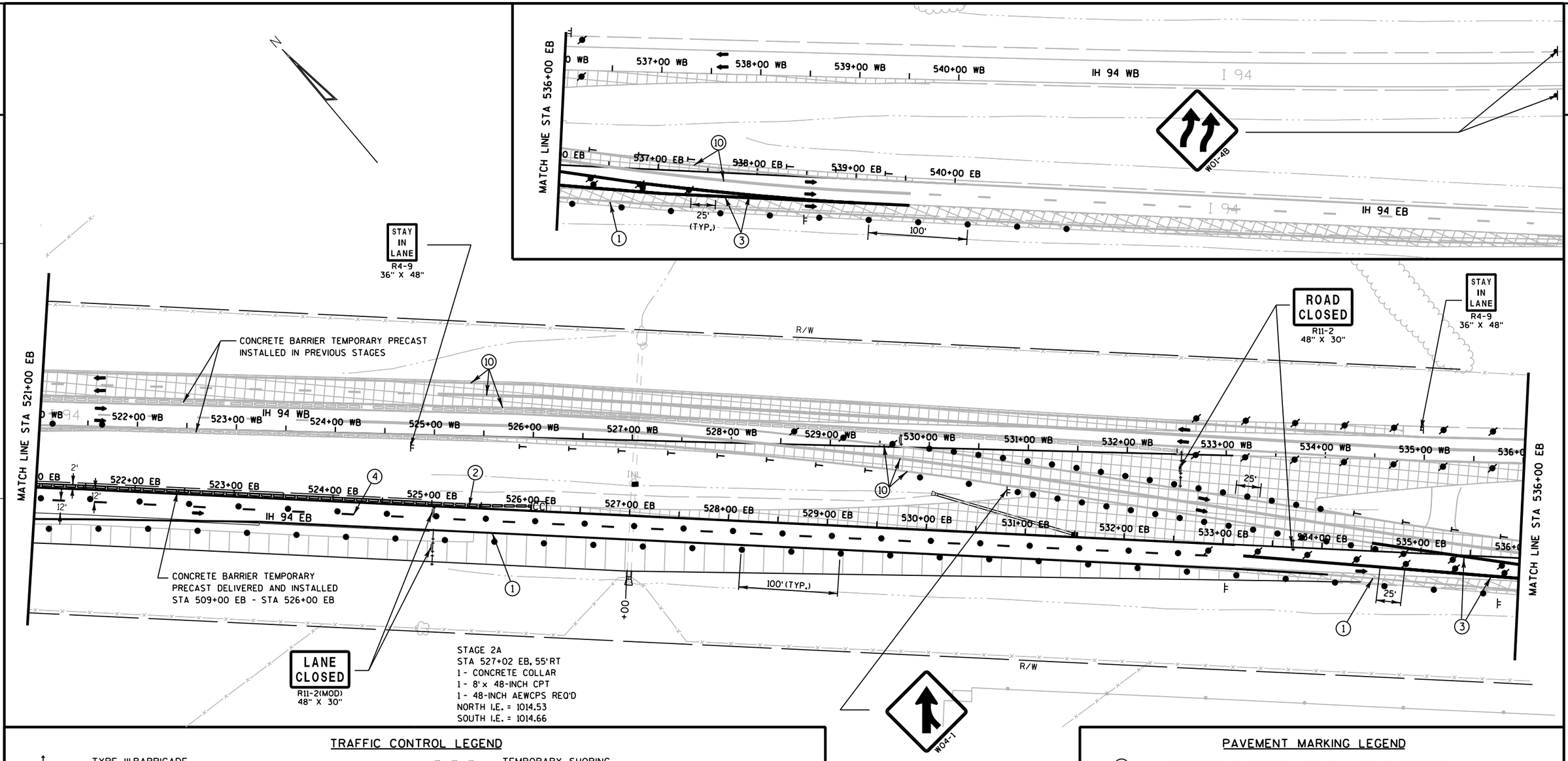
↕	TYPE III BARRICADE	∿∿	TEMPORARY SHORING
↕	TYPE III BARRICADE WTH ATTACHED SIGN		CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM		CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		WORK AREA
	FLASHING ARROW BOARD		ASPHALTIC SURFACE TEMPORARY
⊦	SIGN ON SUPPORT		HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
⊽	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

(1)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
(2)	TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
(3)	TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
(4)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(5)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
(6)	TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
(7)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
(8)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
(9)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(10)	EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 2B (SHEET 8 OF 9)	SHEET 201	E



TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	~~~	TEMPORARY SHORING
↕	TYPE III BARRICADE WTH ATTACHED SIGN	▭▭▭	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▭▭▭	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
⚷	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⚷	FLASHING ARROW BOARD	▨	ASPHALTIC SURFACE TEMPORARY
⊦	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▽	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊦	DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

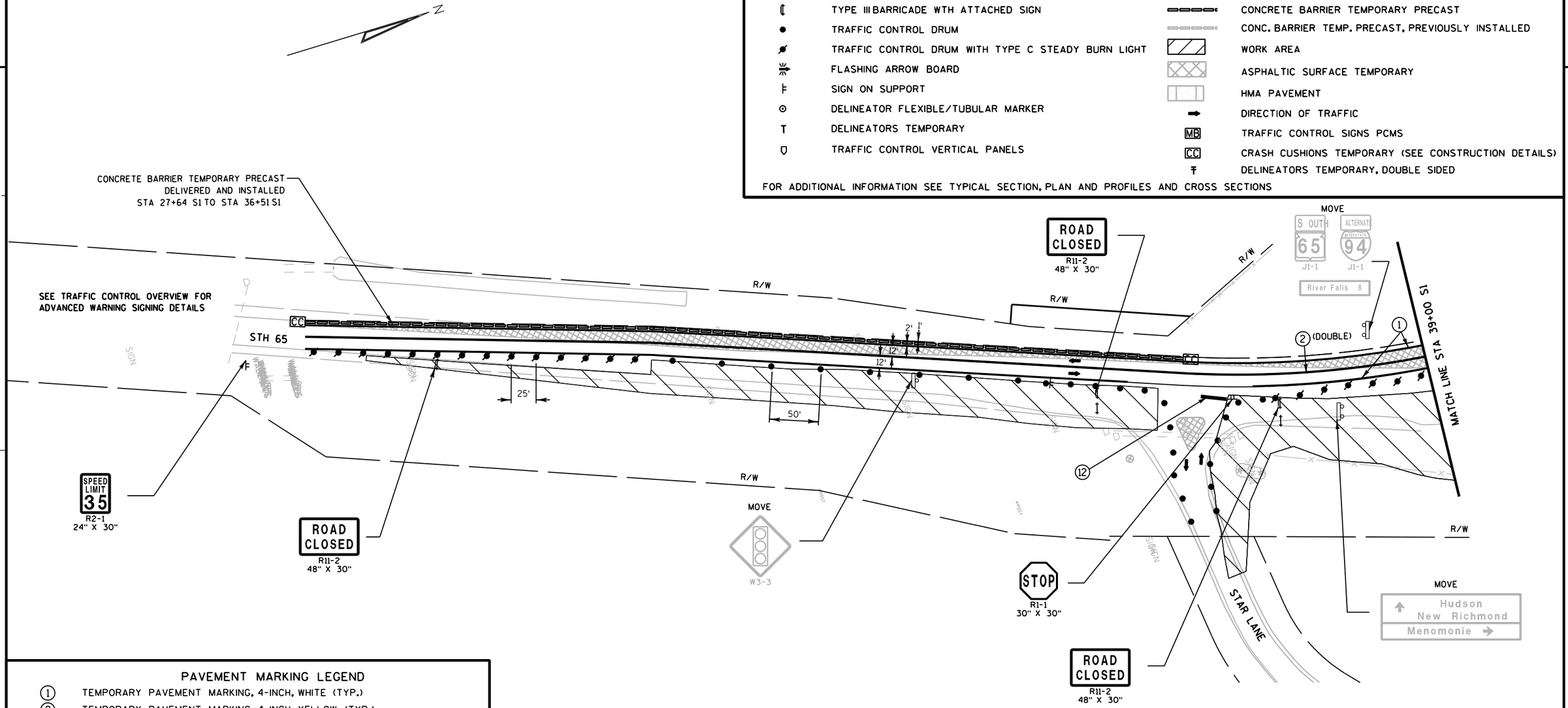
1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 2B (SHEET 9 OF 9)	SHEET 202	E

TRAFFIC CONTROL LEGEND

‡	TYPE III BARRICADE	~~~	TEMPORARY SHORING
‡	TYPE III BARRICADE WTH ATTACHED SIGN	▭▭▭	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▭▭▭	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⇶	FLASHING ARROW BOARD	▨	ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT	▨	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▽	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS



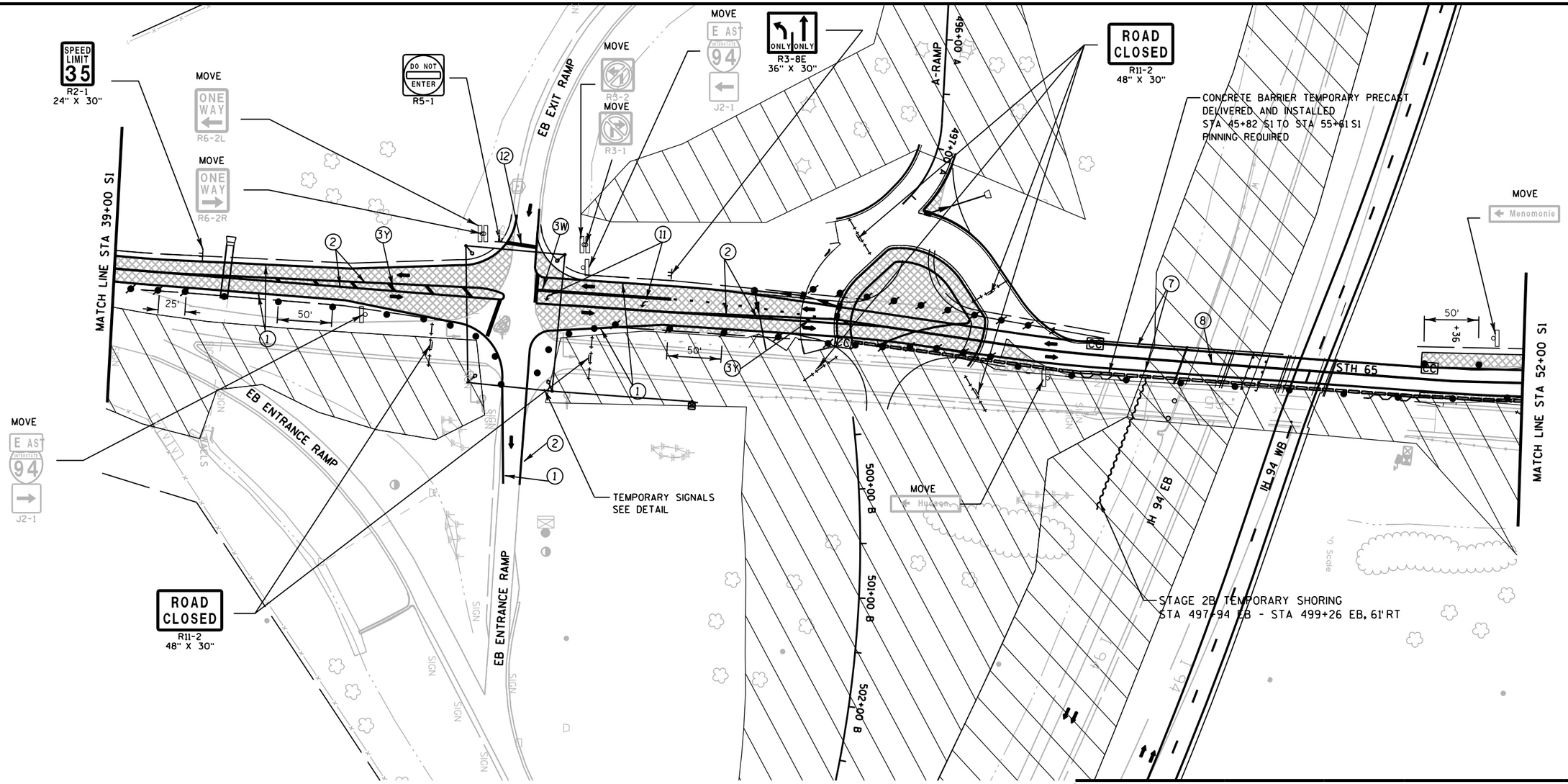
CONSTRUCT STAR LANE HALF AT A TIME
MAINTAIN ACCESS AT ALL TIMES

PAVEMENT MARKING LEGEND

(1)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
(2)	TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
(3)	TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
(4)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(5)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
(6)	TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
(7)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
(8)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
(9)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(10)	EXISTING PAVEMENT MARKINGS TO REMAIN
(11)	TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE
(12)	TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	STH 65 TRAFFIC CONTROL - STAGE 2B THRU 3B (SHEET 1 OF 3)	SHEET E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\65101_tc_stage2B.dgn
PLOT DATE : 1/6/2012
PLOT BY : KL Engineering
PLOT NAME :
PLOT SCALE :
WISDOT/CADDS SHEET 42



TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	~~~	TEMPORARY SHORING
↕	TYPE III BARRICADE WTH ATTACHED SIGN	▬▬	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▬▬	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⇶	FLASHING ARROW BOARD	▨	ASPHALTIC SURFACE TEMPORARY
⊦	SIGN ON SUPPORT	▨	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▽	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN
11. TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE
12. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	STH 65 TRAFFIC CONTROL - STAGE 2B THRU 3B (SHEET 2 OF 3)	SHEET 204	E

TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CC CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN
11. TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE
12. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH

CONCRETE BARRIER TEMPORARY PRECAST DELIVERED AND INSTALLED STA 479+50 D1 TO STA 488+58 D1

CONCRETE BARRIER TEMPORARY PRECAST DELIVERED AND INSTALLED STA 45+82 S1 TO STA 55+61 S1

MATCH LINE STA 52+00 S1

WB ENTRANCE RAMP

C1-RAMP

STH 65

70TH AVENUE

RAMP CLOSED R11-2(MOD) 48" X 30"

ROAD CLOSED R11-2 48" X 30"

ROAD CLOSED R11-2 48" X 30"

DO NOT ENTER R5-1 36" X 36"

STOP R1-1 36" X 30"

STOP R1-1 30" X 30"

ONE WAY R6-2L

ONE WAY R6-2R

ONLY ONLY R3-8E 36" X 30"

W3-3

R3-1

R3-2

W01-2R

35 M.P.H. W013-1 30" X 30"

J2-1

J1-1

SPEED LIMIT 35 R2-1 24" X 30"

SPEED LIMIT 35 R2-1 24" X 30"

SPEED LIMIT 55 R2-1 24" X 30"

River Falls Menomonie Hudson

SEE TRAFFIC CONTROL OVERVIEW FOR ADVANCED WARNING SIGNING DETAILS

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	STH 65 TRAFFIC CONTROL - STAGE 2B THRU 3B (SHEET 3 OF 3)	SHEET E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\65103_tc_stage2B.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :
WISDOT/CADDS SHEET 42

2

TRAFFIC

IH 94

IH 94 EB TRAFFIC TO MOVE TO THE NEW EB MAINLINE.

IH 94 WB TRAFFIC TO MOVE TO THE EXISTING WB MAINLINE.

IH 94/STH 65 EB EXIT RAMP TRAFFIC TO REMAIN ON THE STAGE 2A TEMPORARY EB EXIT A2-RAMP.

IH 94/STH 65 EB ENTRANCE RAMP TRAFFIC TO REMAIN ON THE STAGE 2A TEMPORARY ENTRANCE B2-RAMP.

IH 94/STH 65 WB EXIT RAMP TRAFFIC TO REMAIN ON THE STAGE 1B TEMPORARY WB EXIT C1-RAMP.

IH 94/STH 65 WB ENTRANCE RAMP TRAFFIC TO REMAIN ON THE STAGE 1A TEMPORARY WB ENTRANCE D1-RAMP.

STH 65

STH 65 TRAFFIC TO REMAIN ON THE STAGE 1A-2A TEMPORARY WIDENING.

IH 94/STH 65 EB RAMP TRAFFIC TO REMAIN ON STAGE 1A-2A TEMPORARY WIDENING RAMP INTERSECTION WITH TEMPORARY SIGNALS.

IH 94/STH 65 WB RAMP TRAFFIC TO REMAIN ON STAGE 1A-2A TEMPORARY WIDENING RAMP INTERSECTION.

CONSTRUCTION

IH 94

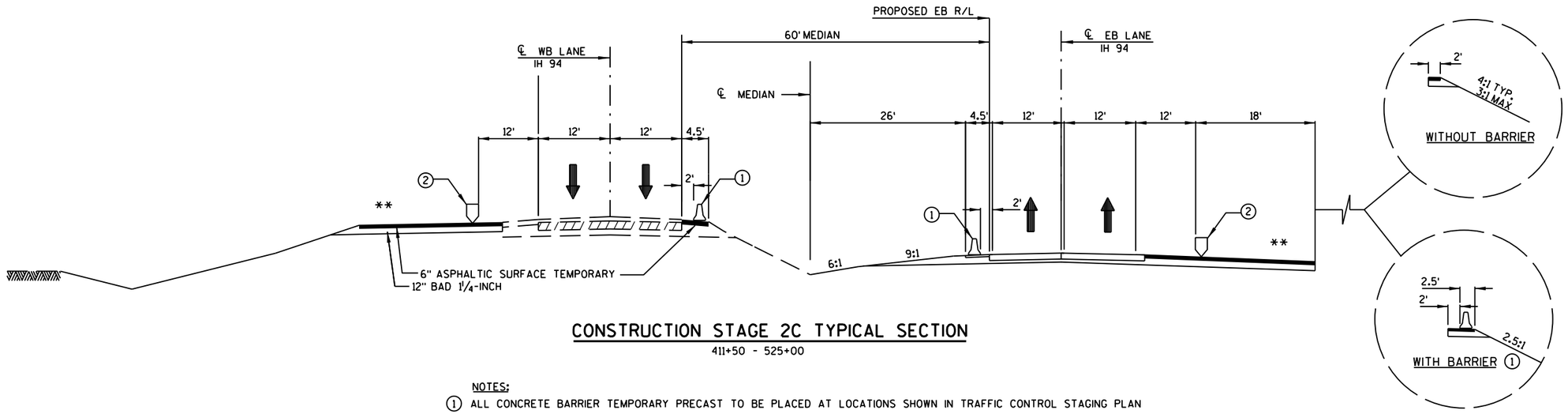
PLACE CONCRETE BARRIER TEMPORARY PRECAST ON THE NEW IH 94 EB LT STA 488+55EB - STA 502+95EB AND STA 506+00EB - STA 509+00EB

SWITCH EB TRAFFIC TO THE NEW EB MAINLINE.

SWITCH WB TRAFFIC TO THE EXISTING IH 94 WB MAINLINE.

WINTER SHUTDOWN.

2



CONSTRUCTION STAGE 2C TYPICAL SECTION

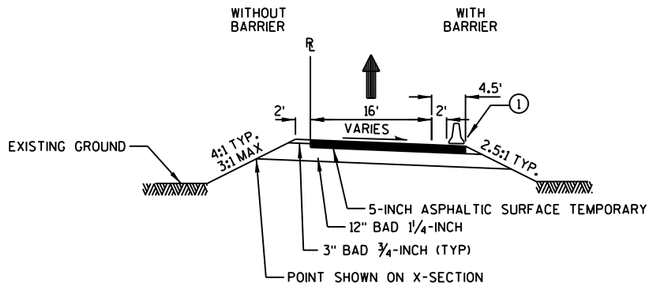
411+50 - 525+00

NOTES:

① ALL CONCRETE BARRIER TEMPORARY PRECAST TO BE PLACED AT LOCATIONS SHOWN IN TRAFFIC CONTROL STAGING PLAN

② ALL TRAFFIC CONTROL VERTICAL PANELS TO BE PLACED AS SHOWN IN TRAFFIC CONTROL STAGING PLAN

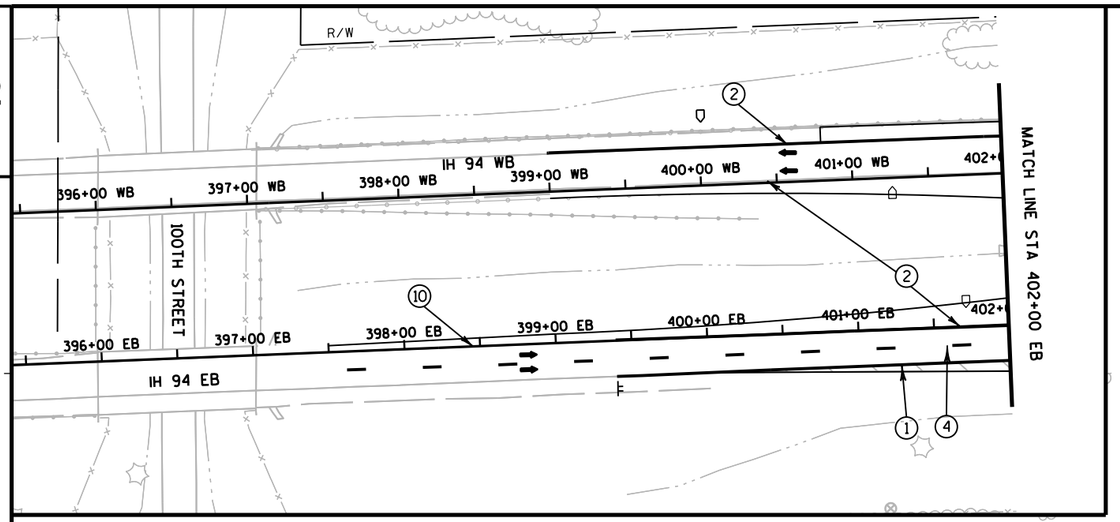
** CONCRETE BARRIER TEMPORARY PRECAST STORAGE ALLOWED IN THESE AREAS PROVIDED BARRIER IS CONNECTED WITH PINS AND BLUNT ENDS ARE PROTECTED

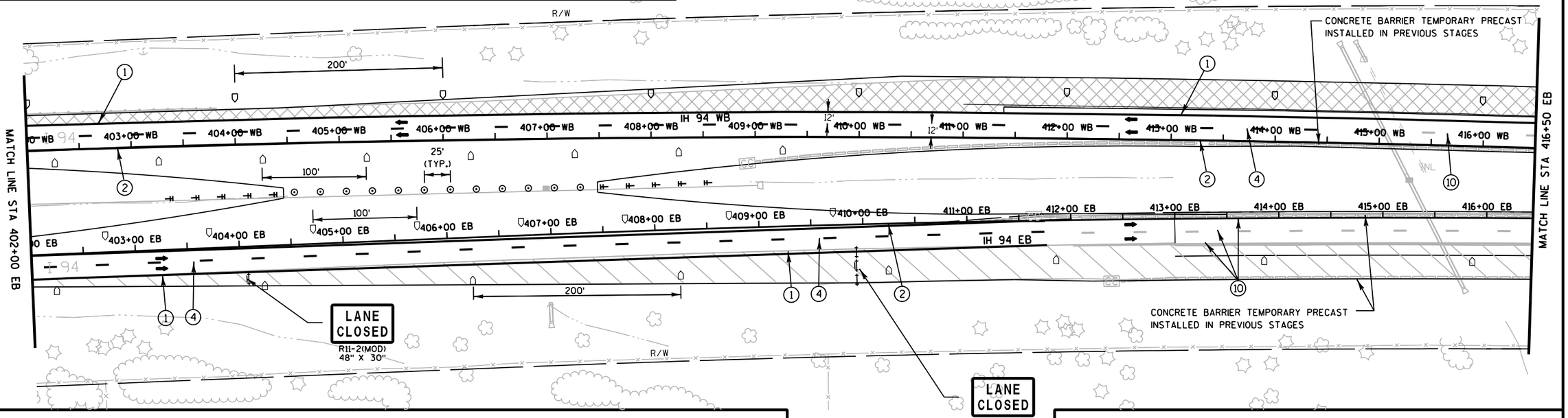


TEMPORARY RAMP TYPICAL SECTION

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 2C TYPICAL SECTIONS	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\tc_All_Stages.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :
WISDOT/CADDS SHEET 42





TRAFFIC CONTROL LEGEND

TYPE III BARRICADE	TEMPORARY SHORING
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	WORK AREA
FLASHING ARROW BOARD	ASPHALTIC SURFACE TEMPORARY
SIGN ON SUPPORT	HMA PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	DIRECTION OF TRAFFIC
DELINEATORS TEMPORARY	MB TRAFFIC CONTROL SIGNS PCMS
TRAFFIC CONTROL VERTICAL PANELS	CC CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
	DELINEATORS TEMPORARY, DOUBLE SIDED

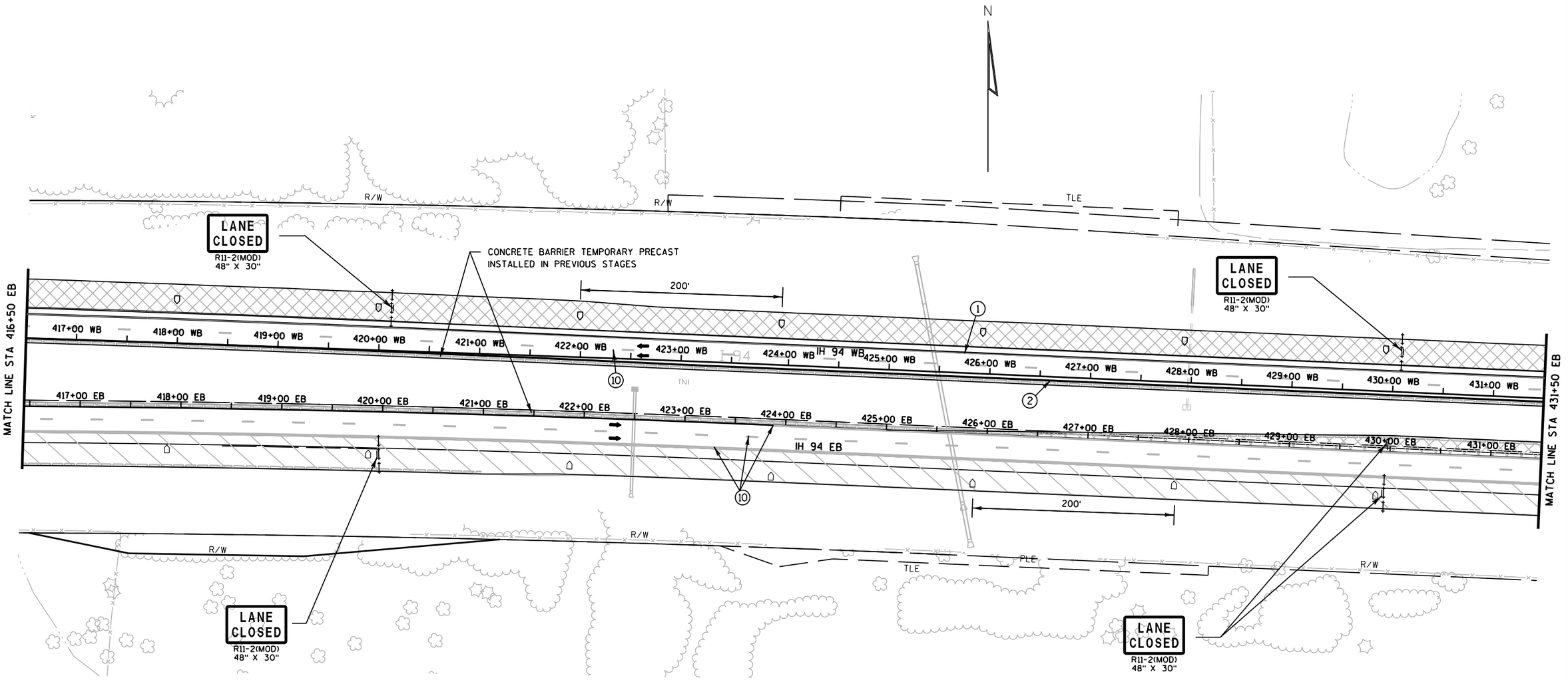
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 2C - WINTER SHUTDOWN (1 OF 9)	SHEET 207 E

2



TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	∿∿	TEMPORARY SHORING
	TYPE III BARRICADE WTH ATTACHED SIGN		CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM		CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		WORK AREA
	FLASHING ARROW BOARD		ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT		HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

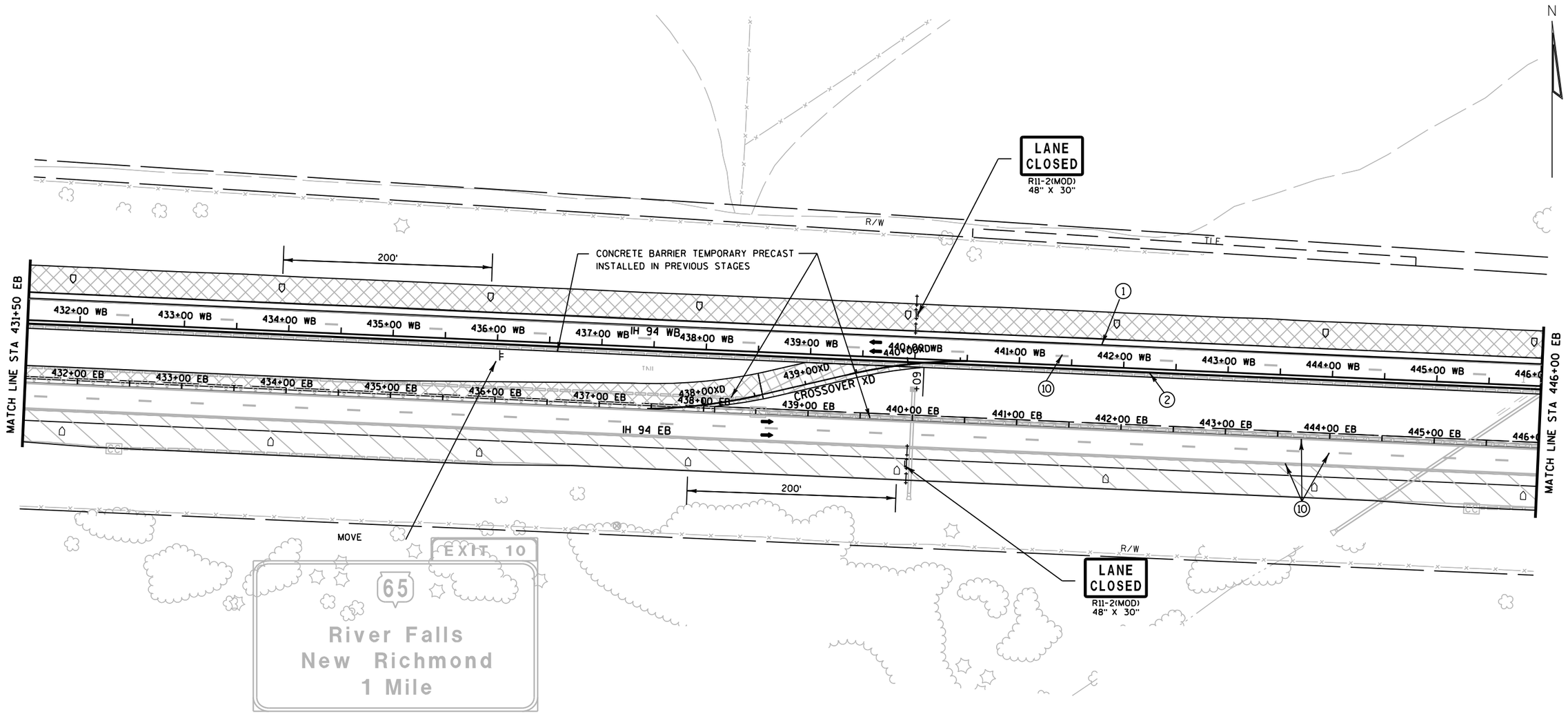
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

(1)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
(2)	TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
(3)	TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
(4)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(5)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
(6)	TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
(7)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
(8)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
(9)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(10)	EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 2C - WINTER SHUTDOWN (2 OF 9)	SHEET 208	E

2



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

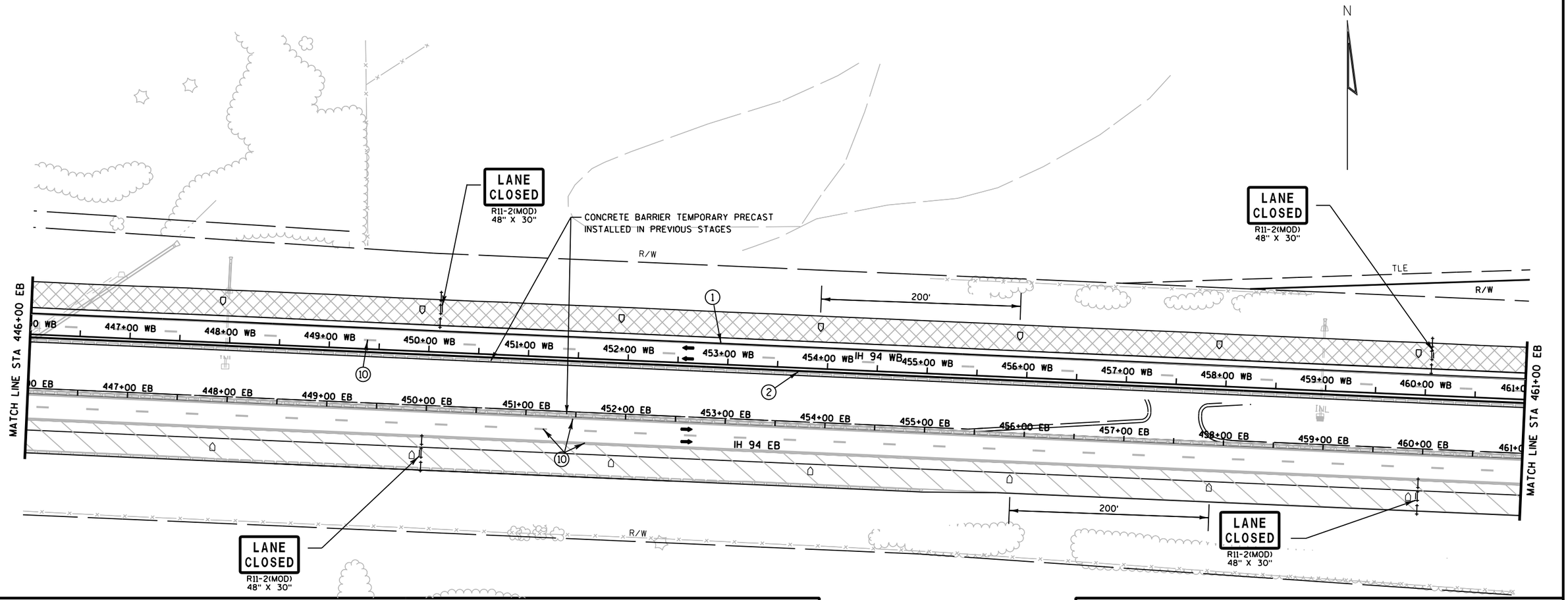
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 2C - WINTER SHUTDOWN (3 OF 9)	SHEET 209	E

2



TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	~~~	TEMPORARY SHORING
↕	TYPE III BARRICADE WTH ATTACHED SIGN	▰▰▰	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▱▱▱	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⇉	FLASHING ARROW BOARD	▩	ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▽	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

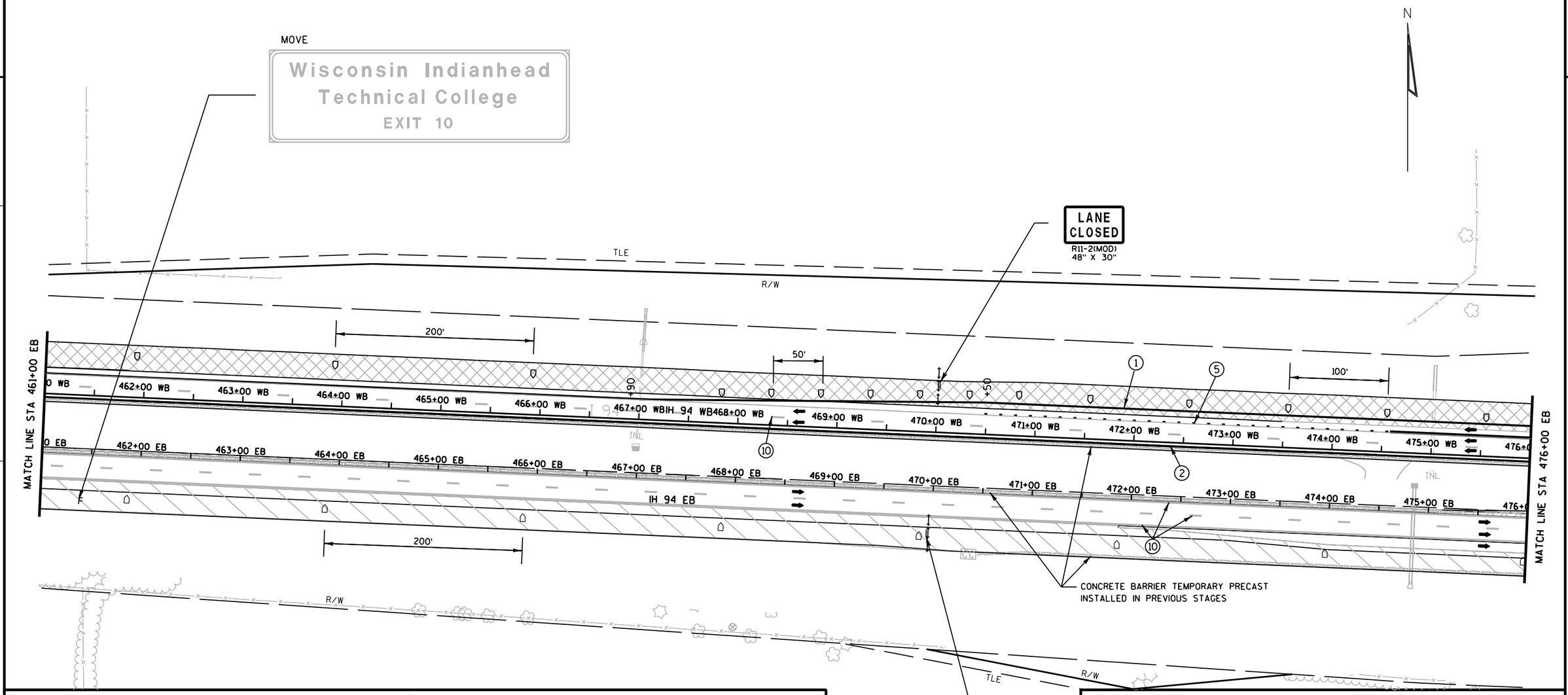
PAVEMENT MARKING LEGEND

(1)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
(2)	TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
(3)	TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
(4)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(5)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
(6)	TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
(7)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
(8)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
(9)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(10)	EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 2C - WINTER SHUTDOWN (4 OF 9)	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025095_tc_stage2C.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

2



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

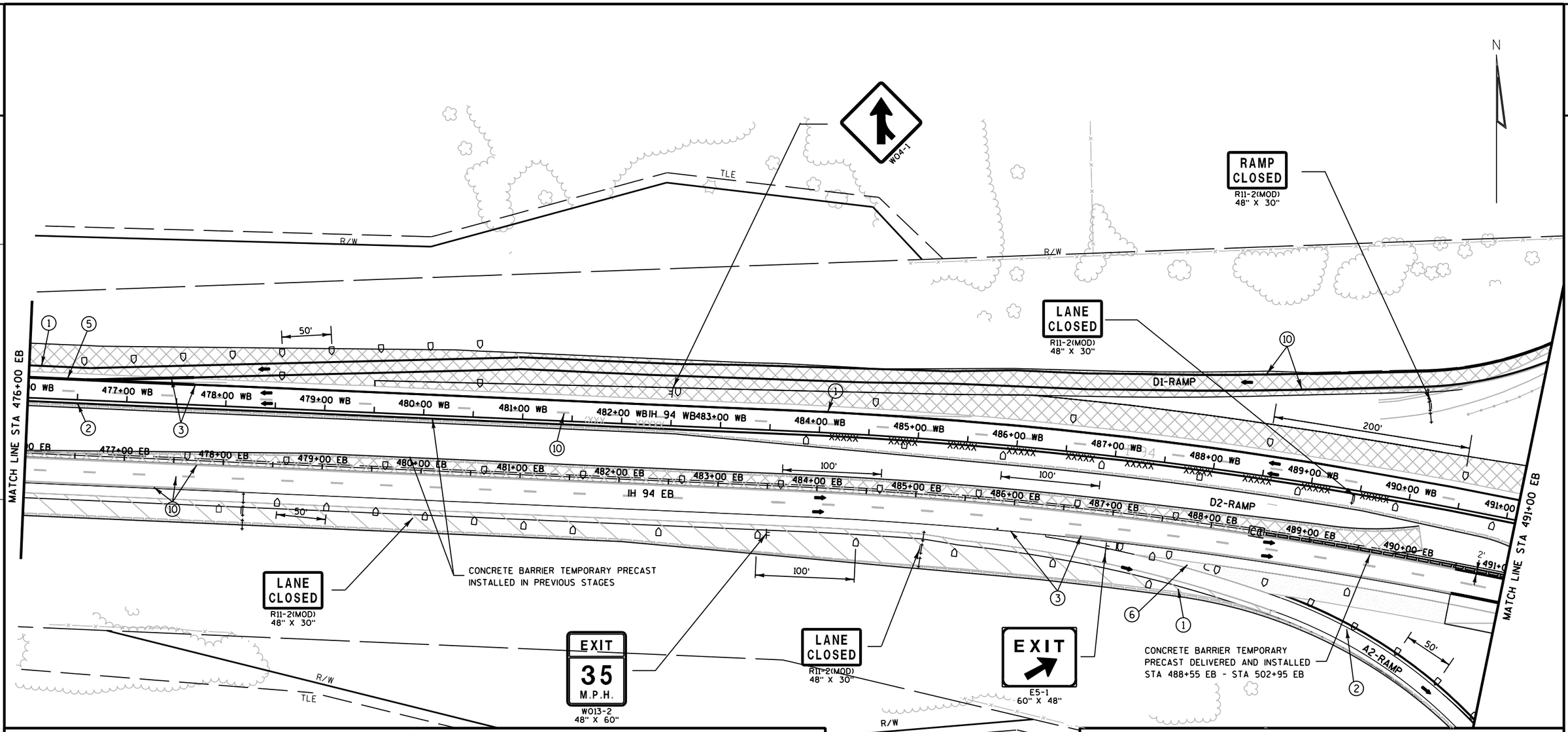
1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 2C - WINTER SHUTDOWN (5 OF 9)	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025096_tc_stage2C.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 42

2



TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	~~~	TEMPORARY SHORING
⇕	TYPE III BARRICADE WTH ATTACHED SIGN	▭▭▭	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▭▭▭	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
◢	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
✳	FLASHING ARROW BOARD	▨	ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▯	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 2C - WINTER SHUTDOWN (6 OF 9)	SHEET 212	E

TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CC CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

N

DI-RAMP
DB-RAMP
D2-RAMP
A2-RAMP
A-RAMP
B-RAMP
C1-RAMP
C2-RAMP
C-RAMP
STH 65
MATCH LINE STA 491+00 EB
MATCH LINE STA. 507+00 EB
IH 94 WB
IH 94 EB
496+00 D
491+00 D
498+00
498+00A
492+00 WB
493+00 WB
494+00 WB
495+00 WB
496+00 WB
497+00 WB
492+00 EB
493+00 EB
494+00 EB
495+00 EB
496+00 EB
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507+00 WB
499+00 EB
500+00 EB
501+00 EB
502+00 EB
503+00 EB
504+00 EB
505+00 EB
506+00 EB

W01-2R
35 M.P.H.
W013-1
30" X 30"

LANE CLOSED
R11-2(MOD)
48" X 30"

RAMP CLOSED
R11-2(MOD)
48" X 30"

W1-8
30" X 36"

EXIT
E5-1
60" X 48"

200'
50'
25'
100'
2'

CONCRETE BARRIER TEMPORARY
PRECAST DELIVERED AND INSTALLED
STA 488+55 EB - STA 502+95 EB

STAGE 2B TEMPORARY SHORING
STA 497+94 EB - STA 499+26 EB, 61' RT

CONCRETE BARRIER TEMPORARY PRECAST
INSTALLED IN PREVIOUS STAGES

CONCRETE BARRIER TEMPORARY
PRECAST DELIVERED AND INSTALLED
STA 502+93 EB - STA 506+28 EB

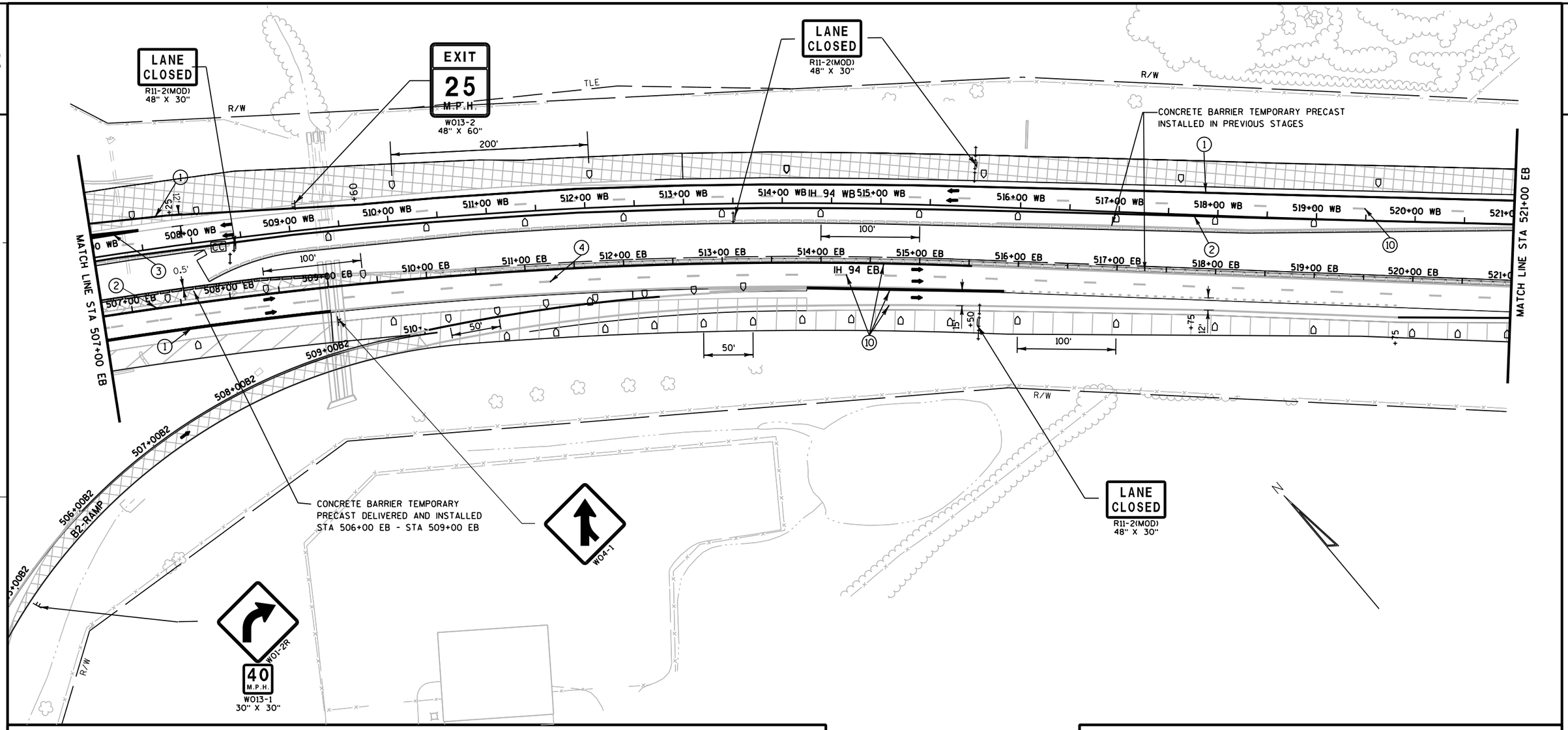
SEE STH 65 TRAFFIC CONTROL PLAN FOR STH 65 TRAFFIC CONTROL ITEMS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN
11. TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 2C - WINTER SHUTDOWN (7 OF 9)	SHEET E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025098_tc_stage2C.dgn
PLOT DATE : 1/6/2012
PLOT BY : KL Engineering
PLOT NAME :
PLOT SCALE :
WISDOT/CADDS SHEET 42



TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	~~~	TEMPORARY SHORING
↕	TYPE III BARRICADE WTH ATTACHED SIGN		CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM		CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		WORK AREA
	FLASHING ARROW BOARD		ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT		HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

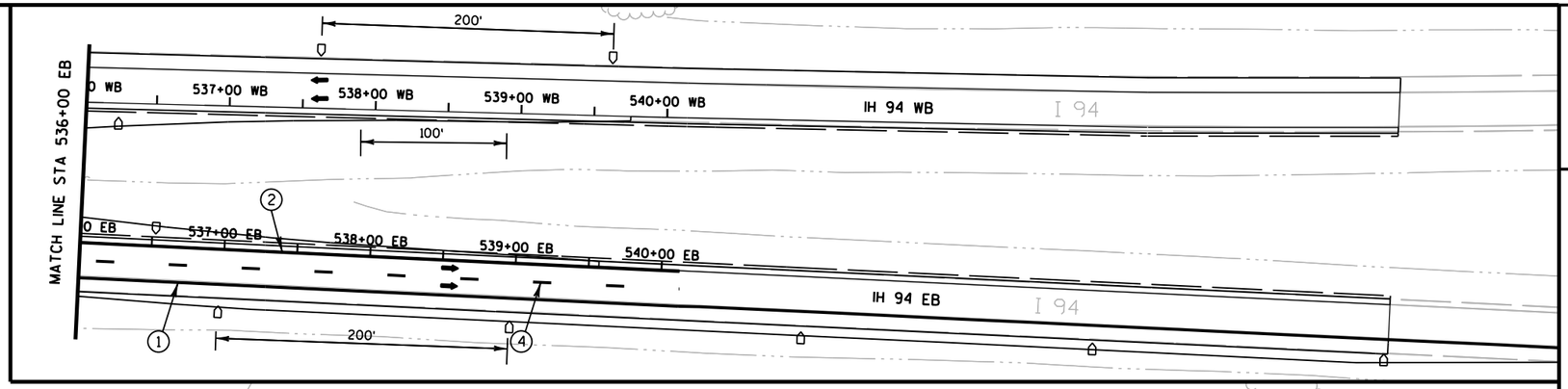
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

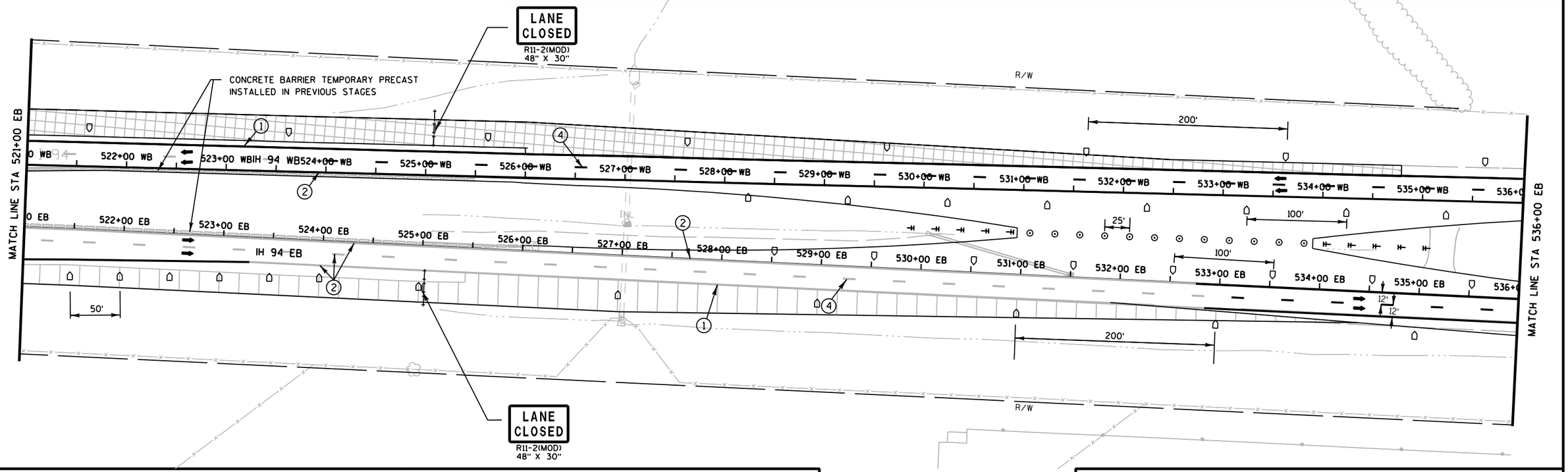
PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 2C - WINTER SHUTDOWN (8 OF 9)	SHEET 214	E

2





TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	∿∿	TEMPORARY SHORING
↕	TYPE III BARRICADE WTH ATTACHED SIGN	▬▬	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▬▬	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
✐	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
✳	FLASHING ARROW BOARD	▨	ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
⊽	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

(1)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
(2)	TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
(3)	TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
(4)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(5)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
(6)	TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
(7)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
(8)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
(9)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(10)	EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 2C - WINTER SHUTDOWN (9 OF 9)	SHEET E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025101_tc_stage2C.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :
WISDOT/CADDS SHEET 42

2

TRAFFIC

IH 94

IH 94 EB TRAFFIC TO MOVE TO THE STAGE 2A/2B TEMPORARY EB MAINLINE WIDENING.

IH 94 WB TRAFFIC TO MOVE TO THE NEW EB MAINLINE.

IH 94/STH 65 EB EXIT RAMP TRAFFIC TO REMAIN ON THE STAGE 2A TEMPORARY EB EXIT A2-RAMP.

IH 94/STH 65 EB ENTRANCE RAMP TRAFFIC TO REMAIN ON THE STAGE 2A TEMPORARY ENTRANCE B2-RAMP.

IH 94/STH 65 WB EXIT RAMP TRAFFIC TO REMAIN ON THE EXISTING WB MAINLINE AND THE STAGE 1B TEMPORARY WB EXIT C1-RAMP.

IH 94/STH 65 WB ENTRANCE RAMP TRAFFIC TO REMAIN ON THE STAGE 1A TEMPORARY WB ENTRANCE D1-RAMP AND THE EXISTING WB MAINLINE AND MOVE TO THE STAGE 2B TEMPORARY WB ENTRANCE RAMP

STH 65

STH 65 TRAFFIC TO REMAIN ON THE STAGE 1A-2A TEMPORARY WIDENING.

IH 94/STH 65 EB RAMP TRAFFIC TO REMAIN ON STAGE 1A-2A TEMPORARY WIDENING RAMP INTERSECTION WITH TEMPORARY SIGNALS.

IH 94/STH 65 WB RAMP TRAFFIC TO REMAIN ON STAGE 1A-2A TEMPORARY WIDENING RAMP INTERSECTION.

CONSTRUCTION

IH 94

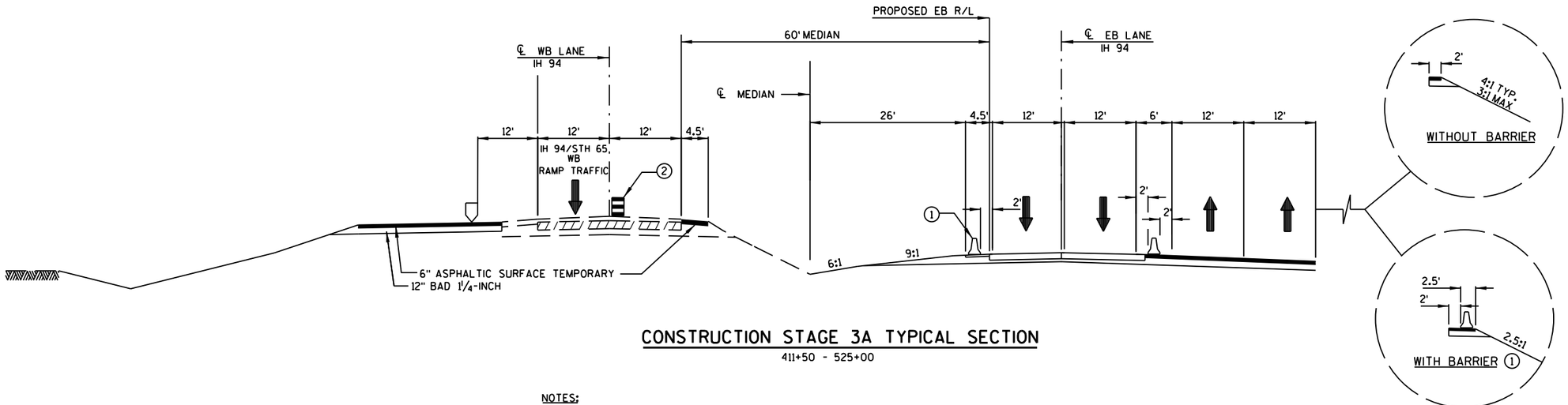
PLACE CONCRETE BARRIER TEMPORARY PRECAST ON THE NEW IH 94 EB RT STA 405+00EB - STA 532+00EB

PLACE CONCRETE BARRIER TEMPORARY PRECAST ON THE NEW IH 94 EB LT STA 434+80EB - STA 439+00EB AND STA 438+45EB - STA 440+10EB

COMPLETE STAGE 3A IH 94 WB TEMPORARY EXIT C2-RAMP STA 501+25C2 - STA 502+75C2

COMPLETE STAGE 3A IH 94 WB TEMPORARY ENTRANCE D2-RAMP STA 490+00D2 - STA 497+00D2

2



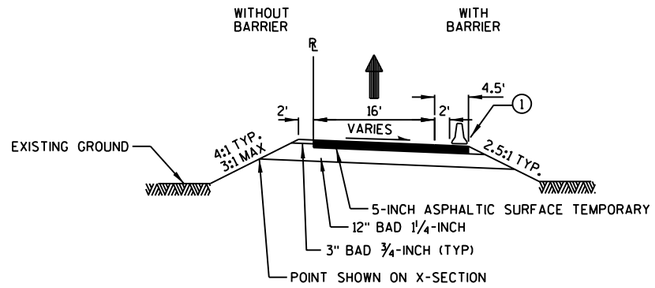
CONSTRUCTION STAGE 3A TYPICAL SECTION

411+50 - 525+00

NOTES;

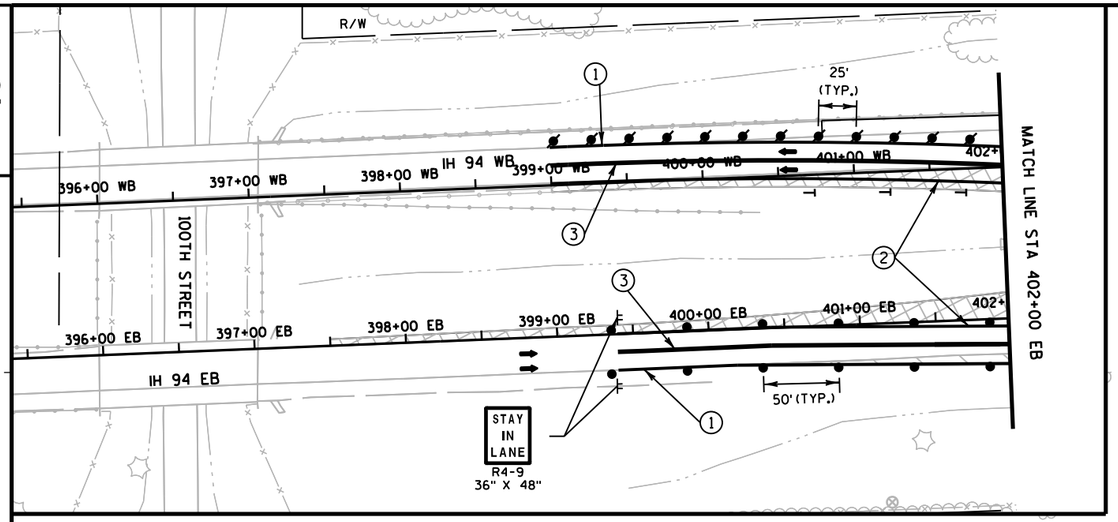
① ALL CONCRETE BARRIER TEMPORARY PRECAST TO BE PLACED AT LOCATIONS SHOWN IN TRAFFIC CONTROL STAGING PLAN

② ALL TRAFFIC CONTROL DRUMS TO BE PLACED AS SHOWN IN TRAFFIC CONTROL STAGING PLAN



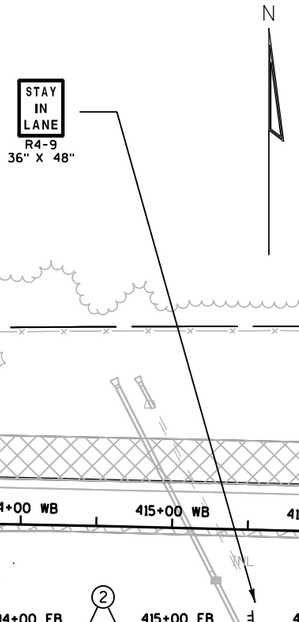
TEMPORARY RAMP TYPICAL SECTION

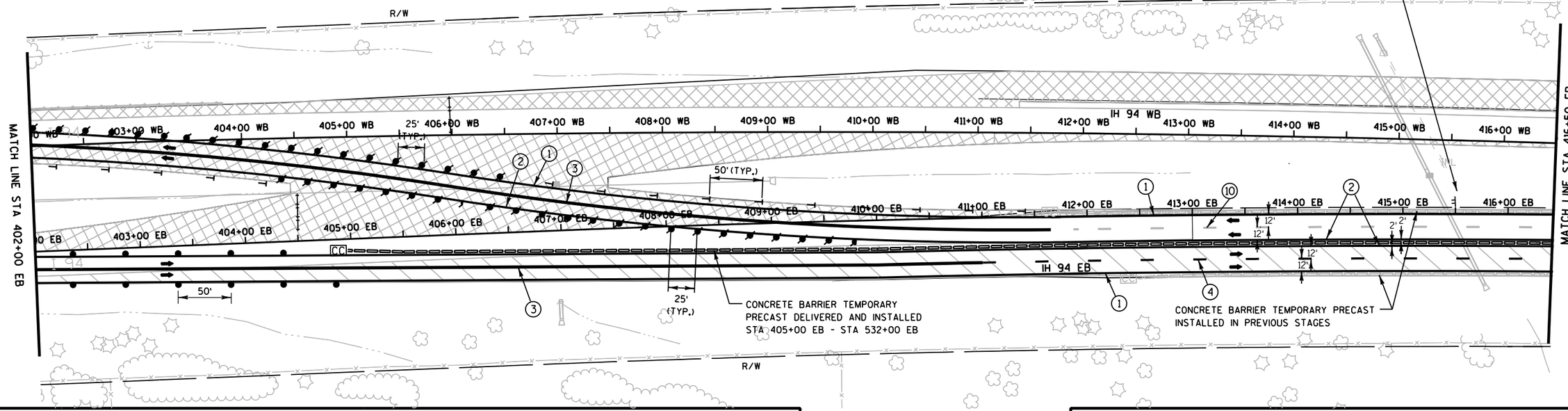
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3A TYPICAL SECTIONS	SHEET 216	E





INSTALL W01-4B 100' PRIOR TO SHIFT ON EB INSIDE & OUTSIDE SHOULDER





TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

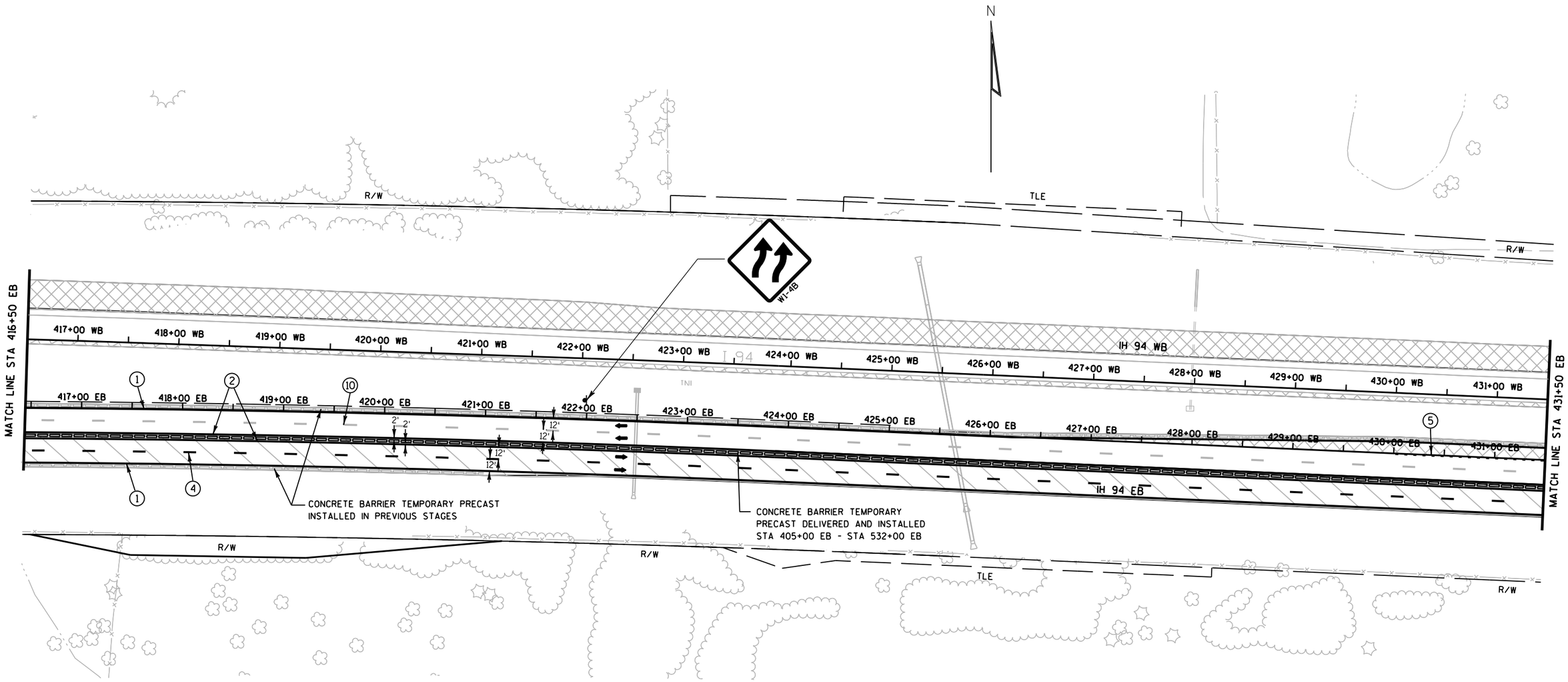
* SEE S.D.D. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3A (SHEET 1 OF 9)	SHEET E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025102_tc_stage3A.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :
WISDOT/CADDS SHEET 42



TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	∿∿∿	TEMPORARY SHORING
↕	TYPE III BARRICADE WTH ATTACHED SIGN	▭▭▭	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▭▭▭	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
◢	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⇶	FLASHING ARROW BOARD	▨	ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▯	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

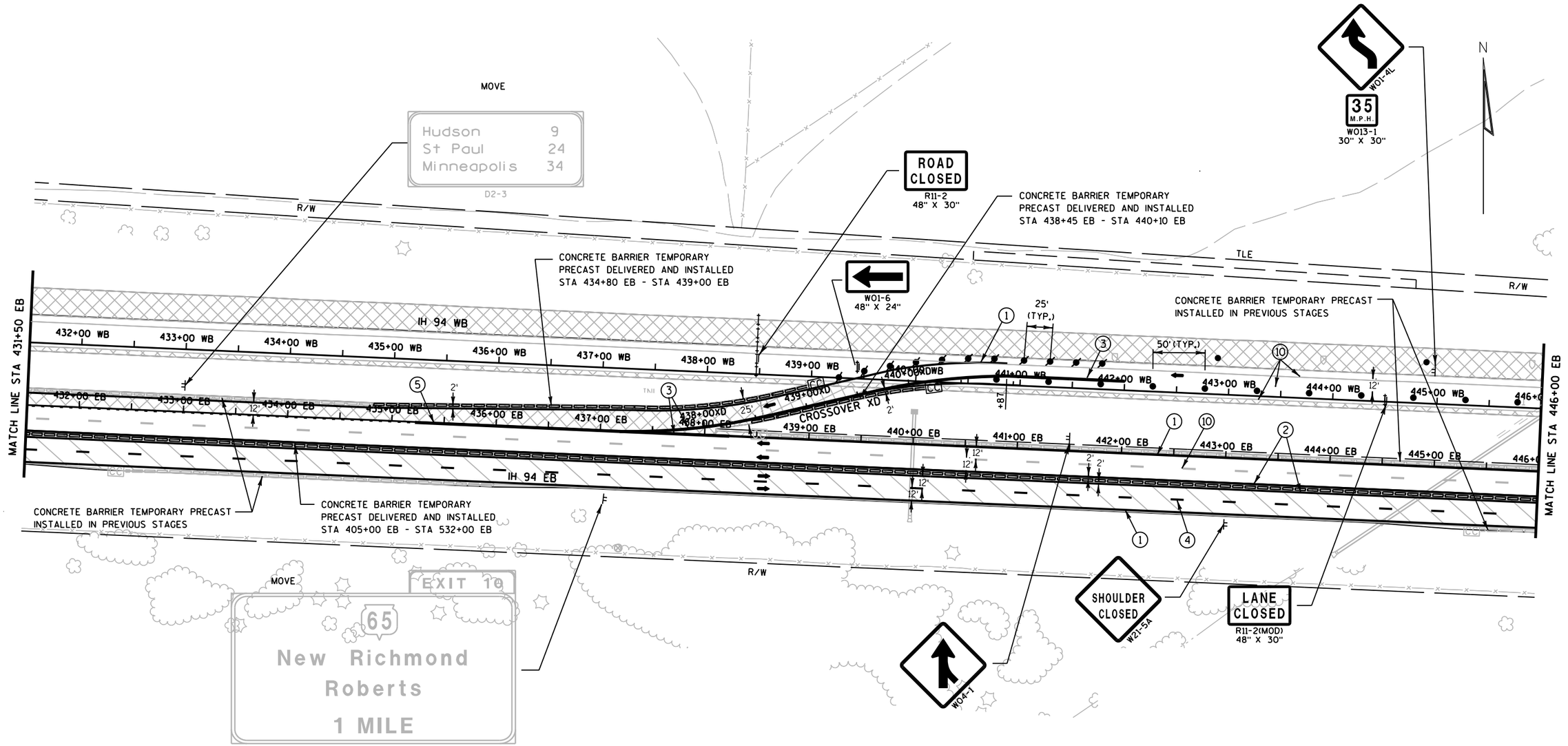
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

(1)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
(2)	TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
(3)	TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
(4)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(5)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
(6)	TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
(7)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
(8)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
(9)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(10)	EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3A (SHEET 2 OF 9)	SHEET 218	E

2



TRAFFIC CONTROL LEGEND

‡	TYPE III BARRICADE	~~~	TEMPORARY SHORING
‡	TYPE III BARRICADE WTH ATTACHED SIGN		CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM		CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		WORK AREA
	FLASHING ARROW BOARD		ASPHALTIC SURFACE TEMPORARY
⊦	SIGN ON SUPPORT		HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

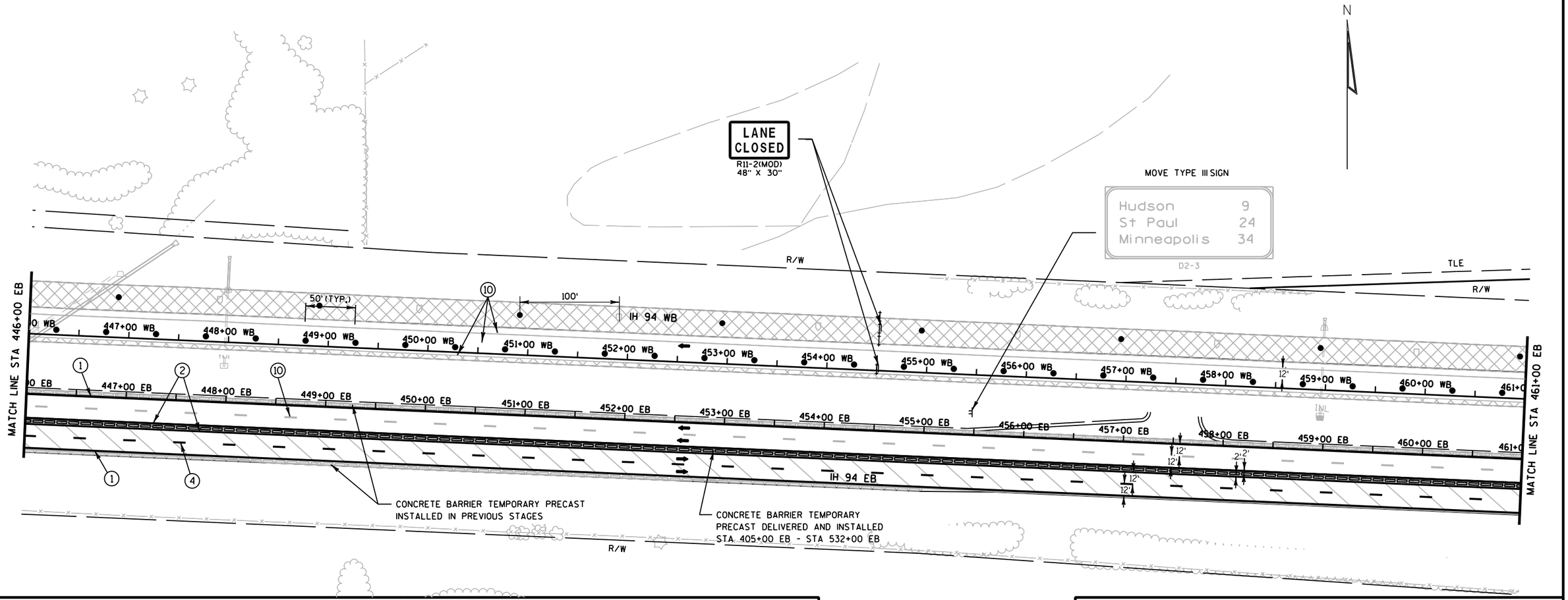
PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3A (SHEET 3 OF 9)	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025104_tc_stage3A.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

2



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

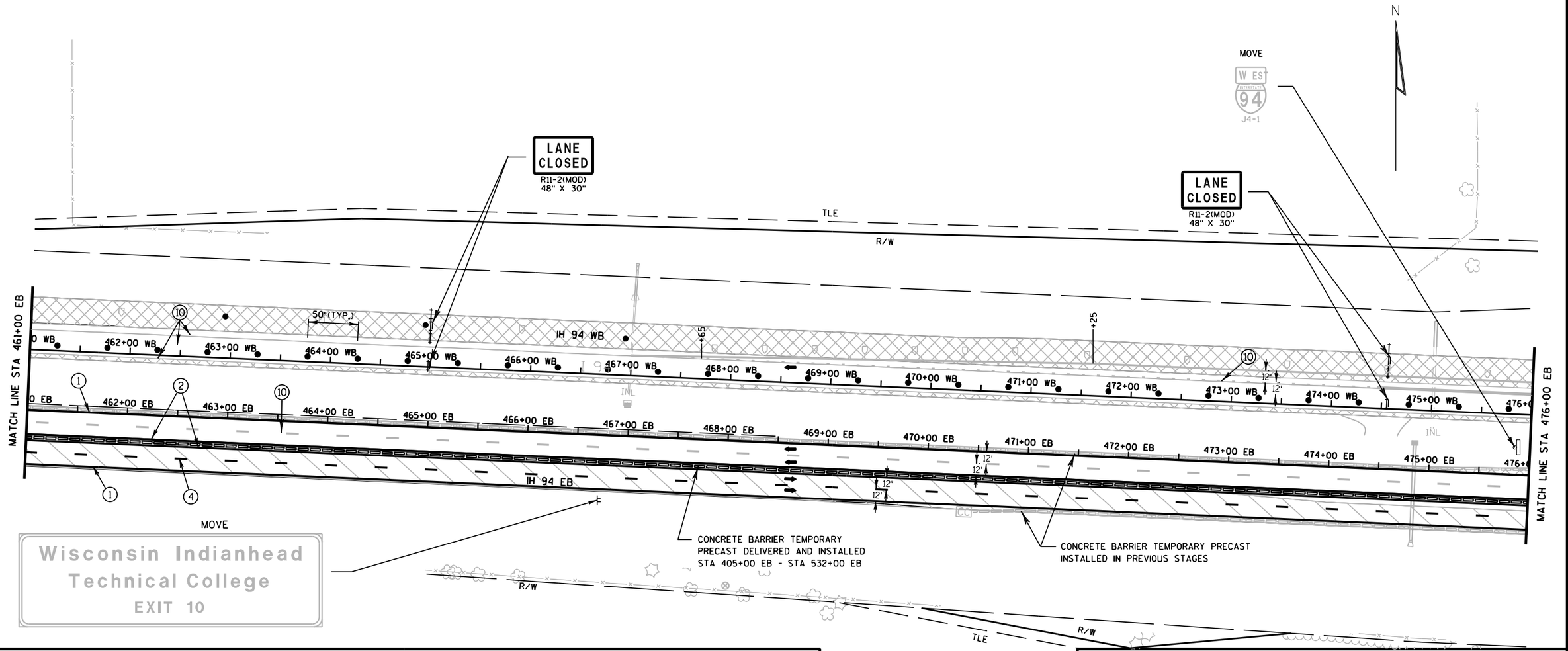
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3A (SHEET 4 OF 9)	SHEET 220	E

2



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

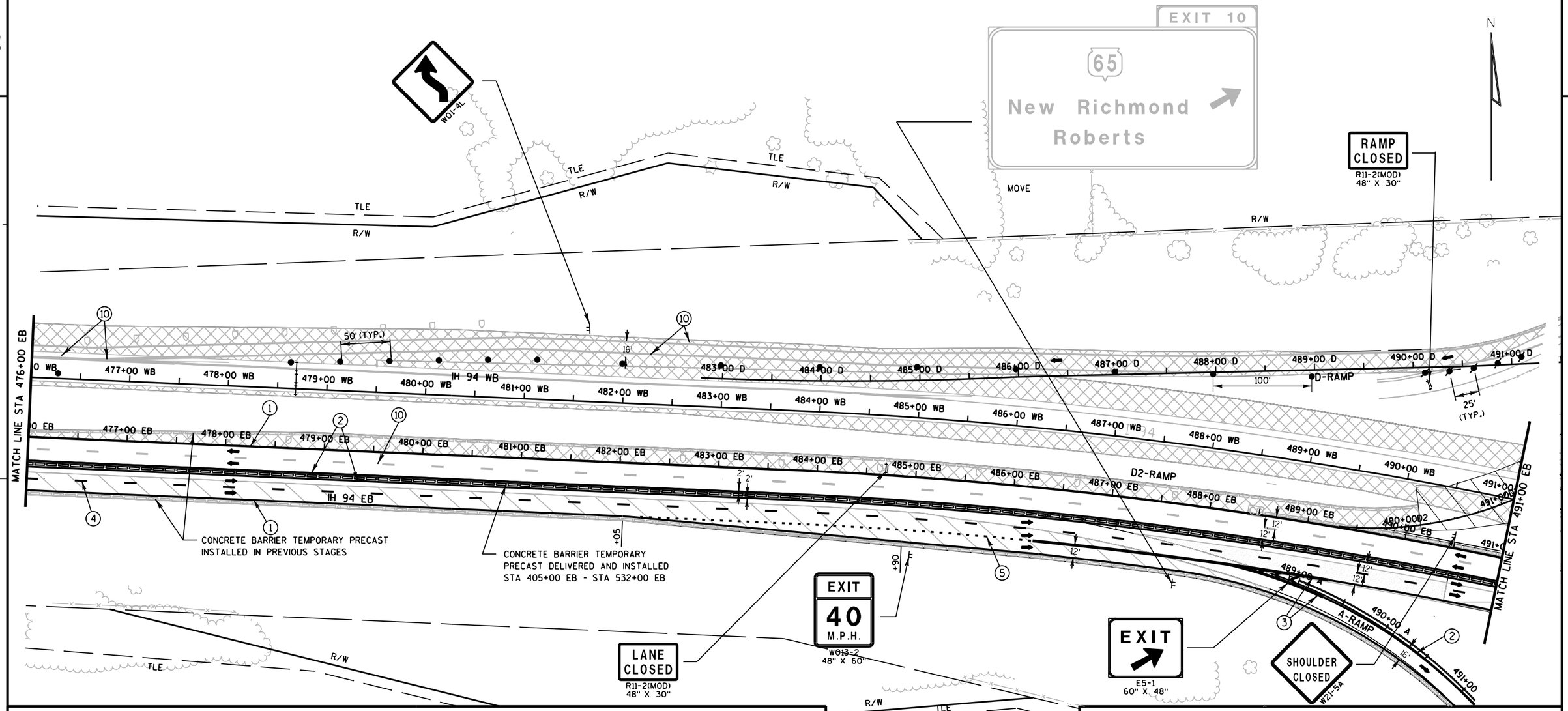
PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3A (SHEET 5 OF 9)	SHEET E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025106_tc_stage3A.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :
WISDOT/CADDS SHEET 42

2



TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	~~~	TEMPORARY SHORING
↕	TYPE III BARRICADE WTH ATTACHED SIGN	▭▭▭	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▭▭▭	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⇉	FLASHING ARROW BOARD	▨	ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▽	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

(1)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
(2)	TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
(3)	TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
(4)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(5)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
(6)	TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
(7)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
(8)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
(9)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(10)	EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3A (SHEET 6 OF 9)	SHEET E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025107_tc_stage3A.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :
WISDOT/CADDS SHEET 42

TRAFFIC CONTROL LEGEND

‡	TYPE III BARRICADE	~~~	TEMPORARY SHORING
‡	TYPE III BARRICADE WTH ATTACHED SIGN	▭▭▭	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▭▭▭	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⁂	FLASHING ARROW BOARD	▨	ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▽	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

SEE STH 65 TRAFFIC CONTROL PLAN FOR STH 65 TRAFFIC CONTROL ITEMS

CONCRETE BARRIER TEMPORARY PRECAST DELIVERED AND INSTALLED STA 405+00 EB - STA 532+00 EB

CONCRETE BARRIER TEMPORARY PRECAST INSTALLED IN PREVIOUS STAGES

RAMP CLOSED R11-2(MOD) 48" X 30"

ROAD CLOSED R11-2 48" X 30"

35 M.P.H. W013-1 30" X 30"

25 M.P.H. W013-1 30" X 30"

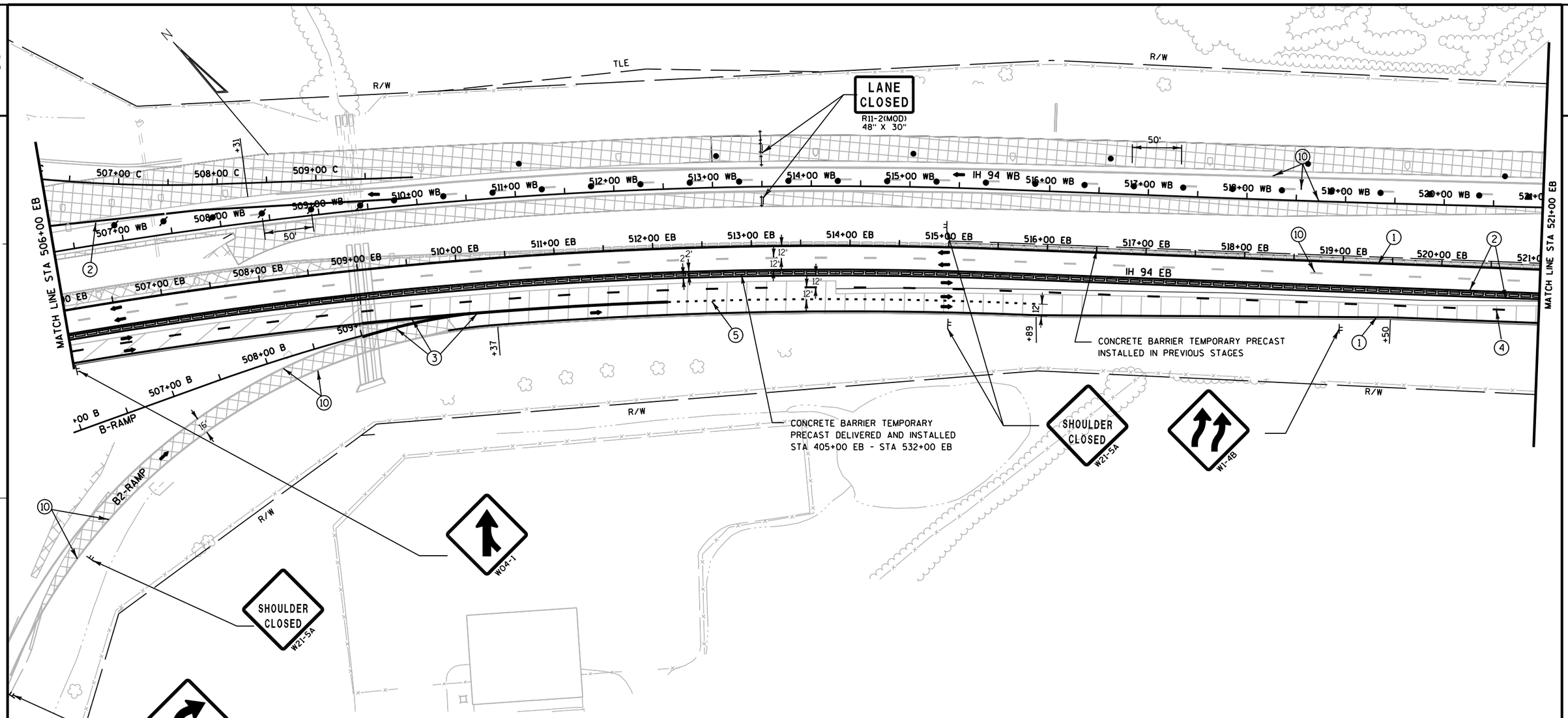
W01-2R

W04-1

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN
11. TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3A (SHEET 7 OF 9)	SHEET 223	E



TRAFFIC CONTROL LEGEND

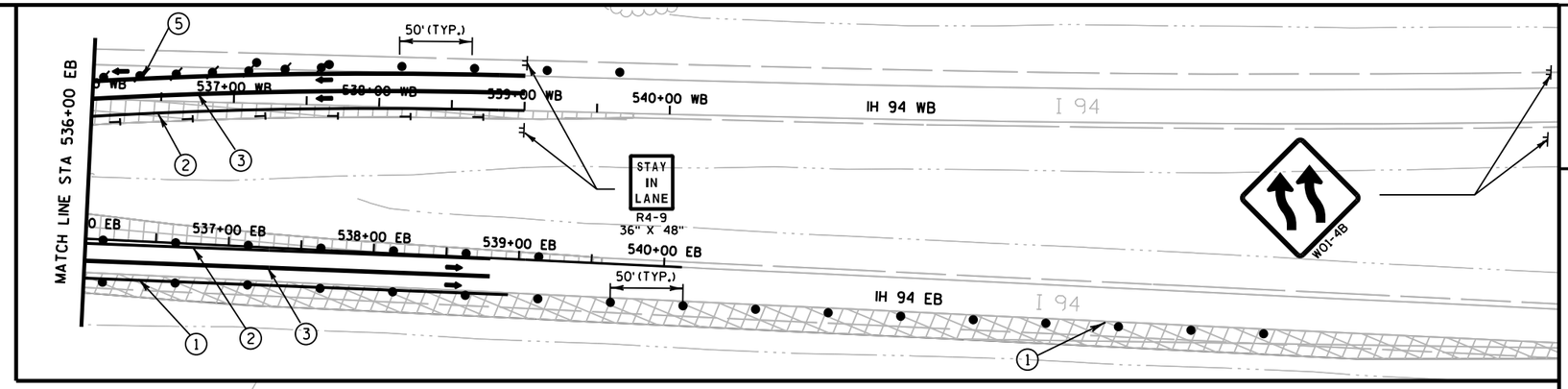
↕	TYPE III BARRICADE	∿∿	TEMPORARY SHORING
↕	TYPE III BARRICADE WTH ATTACHED SIGN		CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM		CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		WORK AREA
	FLASHING ARROW BOARD		ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT		HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
⛉	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

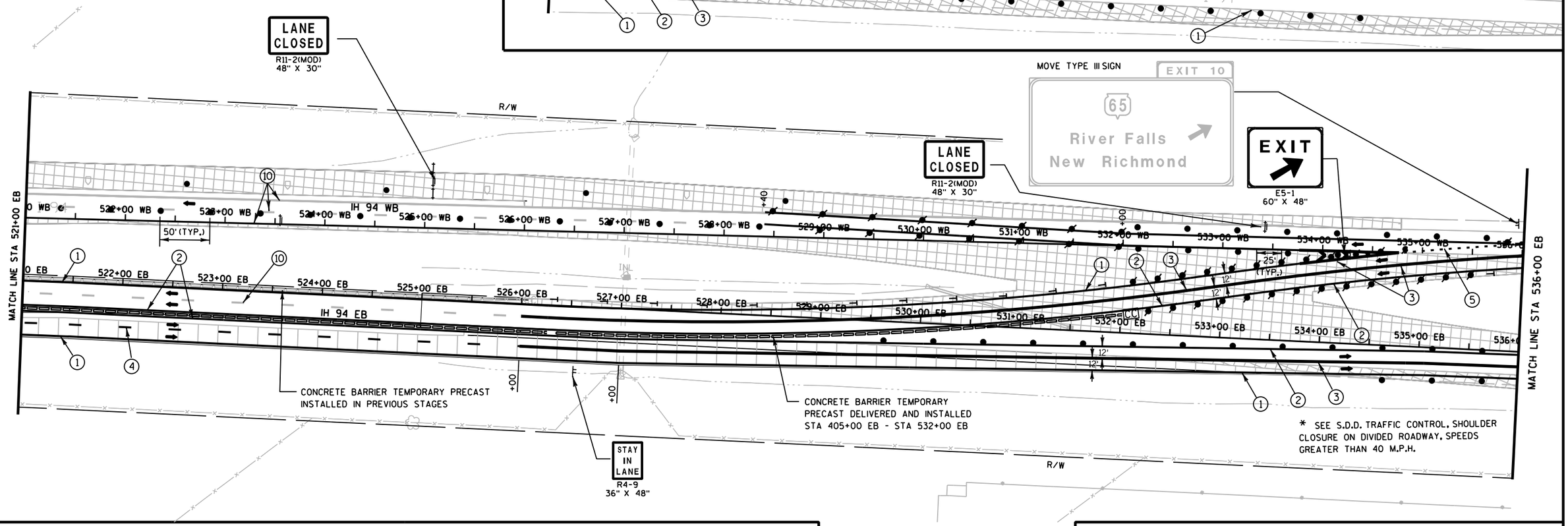
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

(1)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
(2)	TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
(3)	TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
(4)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(5)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
(6)	TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
(7)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
(8)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
(9)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(10)	EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3A (SHEET 8 OF 9)	SHEET 224	E





TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3A (SHEET 9 OF 9)	SHEET 225	E

2

TRAFFIC

IH 94

IH 94 EB TRAFFIC TO REMAIN ON THE
STAGE 2A/2B TEMPORARY EB MAINLINE WIDENING.

IH 94 WB TRAFFIC TO REMAIN ON THE NEW EB MAINLINE.

IH 94/STH 65 EB EXIT RAMP TRAFFIC TO REMAIN ON THE
STAGE 2A TEMPORARY EB EXIT A2-RAMP.

IH 94/STH 65 EB ENTRANCE RAMP TRAFFIC TO REMAIN ON THE
STAGE 2A TEMPORARY ENTRANCE B2-RAMP.

IH 94/STH 65 WB EXIT RAMP TRAFFIC TO MOVE TO THE
STAGE 3A TEMPORARY WB EXIT C2-RAMP.

IH 94/STH 65 WB ENTRANCE RAMP TRAFFIC TO MOVE TO THE
STAGE 3A TEMPORARY WB ENTRANCE D2-RAMP.

STH 65

STH 65 TRAFFIC TO REMAIN ON THE STAGE 1A-2A TEMPORARY WIDENING.

IH 94/STH 65 EB RAMP TRAFFIC TO REMAIN ON STAGE 1A-2A TEMPORARY WIDENING
RAMP INTERSECTION WITH TEMPORARY SIGNALS.

IH 94/STH 65 WB RAMP TRAFFIC TO REMAIN ON STAGE 1A-2A TEMPORARY WIDENING
RAMP INTERSECTION.

CONSTRUCTION

IH 94

PLACE CONCRETE BARRIER TEMPORARY PRECAST ON THE
STAGE 3A TEMPORARY WB EXIT C2-RAMP
STA 501+50C2 - STA 502+05C2 AND STA 501+60C2 - STA 502+75C2

PLACE CONCRETE BARRIER TEMPORARY PRECAST ON THE
STAGE 3A TEMPORARY WB ENTRANCE D2-RAMP
STA 490+15D2 - STA 493+00D2 AND STA 489+10D2 - STA 492+15D2

SWITCH WB EXIT RAMP TRAFFIC TO THE STAGE 3A IH 94/STH 65
WB TEMPORARY EXIT C2-RAMP.

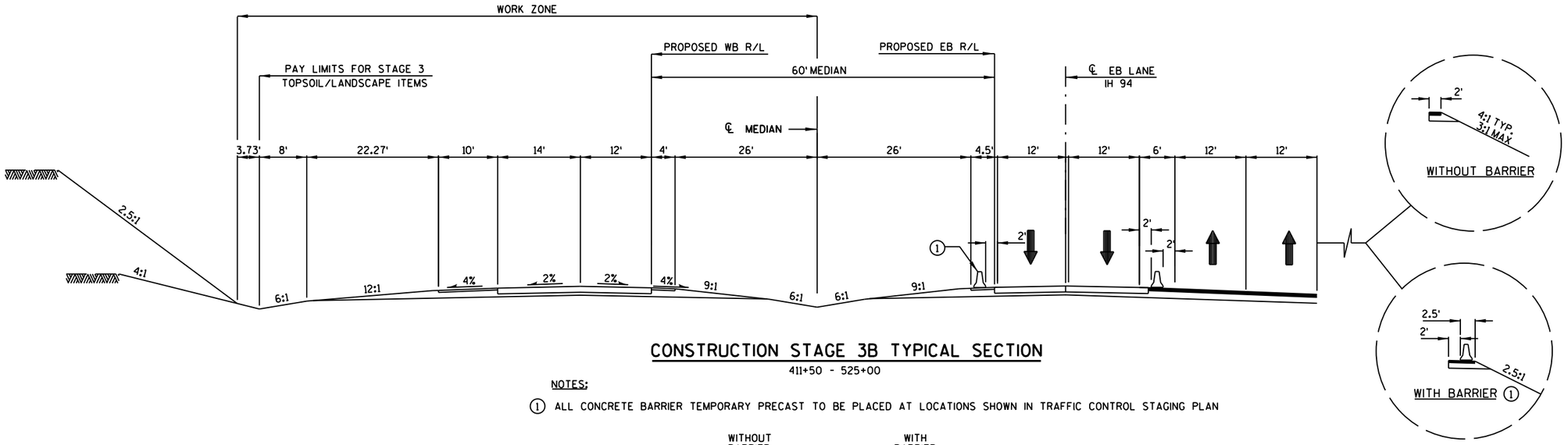
SWITCH WB ENTRANCE RAMP TRAFFIC TO THE
STAGE 3A IH 94/STH 65 WB TEMPORARY ENTRANCE D2-RAMP.

COMPLETE STAGE 3B MAINLINE IH 94 WB STA 413+00WB - STA 489+50WB
AND STA 504+00WB - STA 525+00WB

COMPLETE STAGE 3B TEMPORARY CROSSOVER XD STA 438+50XD - STA 440+10XD

COMPLETE THE NEW EB EXIT C-RAMP STA 497+00C - STA 499+60C & STA 502+00C - STA 510+00C

COMPLETE THE NEW EB ENTRANCE D-RAMP STA 482+80D - STA 492+00D
& STA 493+50D - STA 496+50D

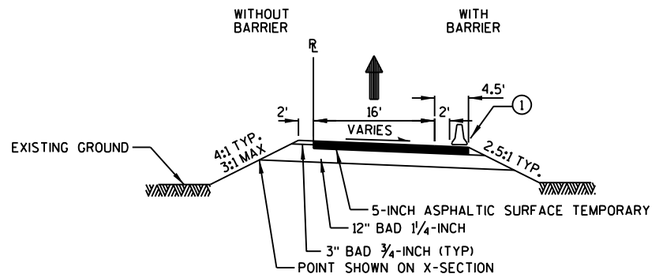


CONSTRUCTION STAGE 3B TYPICAL SECTION

411+50 - 525+00

NOTES:

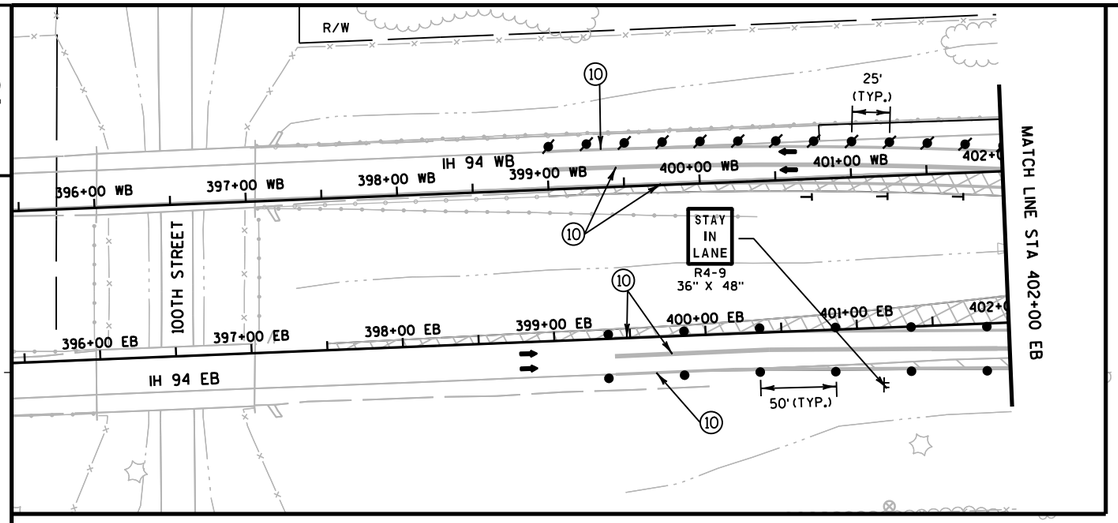
1. ALL CONCRETE BARRIER TEMPORARY PRECAST TO BE PLACED AT LOCATIONS SHOWN IN TRAFFIC CONTROL STAGING PLAN



TEMPORARY RAMP TYPICAL SECTION

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3B TYPICAL SECTIONS	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\tc_All_Stages.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :
WISDOT/CADDS SHEET 42

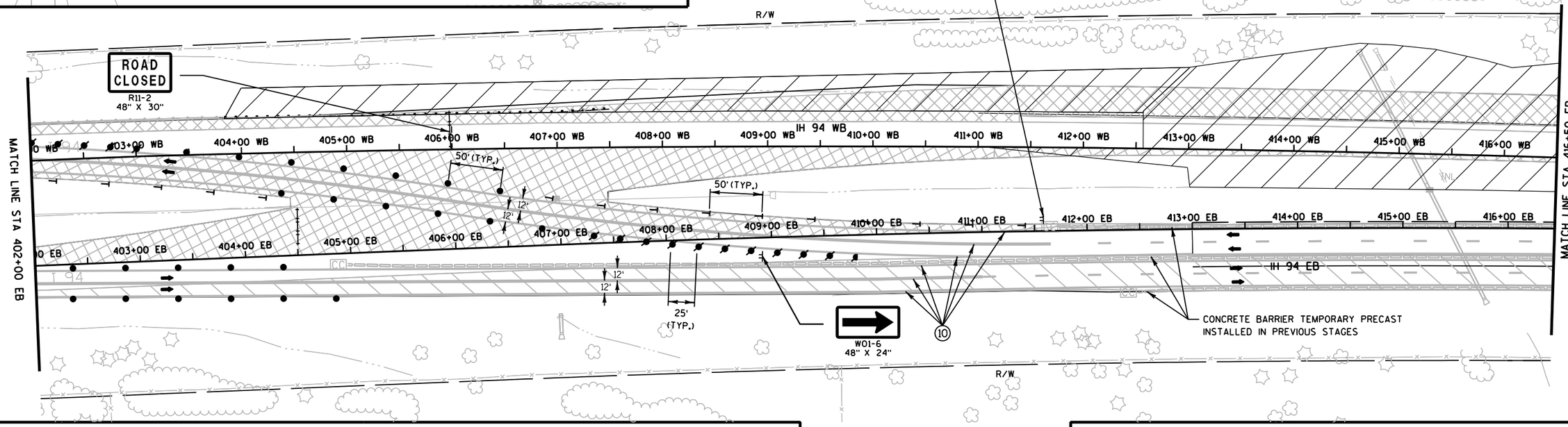


STA 403+80 WB TO STA 407+00 WB
INSTALL STEEL PLATE BEAM GUARD CLASS A

STA 407+00 WB TO STA 407+50 WB
INSTALL STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL



INSTALL W01-4B 100' PRIOR TO SHIFT ON EB INSIDE & OUTSIDE SHOULDER



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

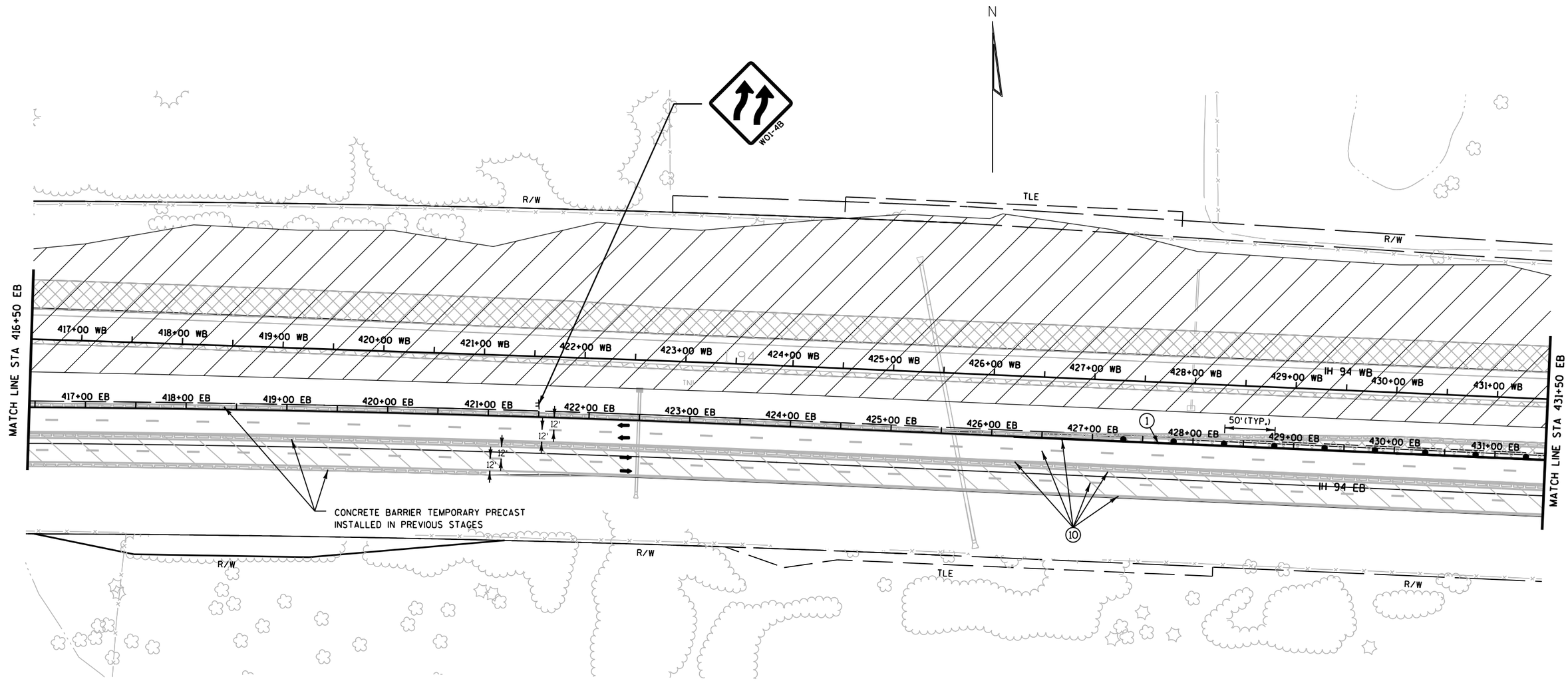
* SEE S.D.D. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3B (SHEET 1 OF 9)	SHEET 227	E

2



TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	~~~	TEMPORARY SHORING
↕	TYPE III BARRICADE WTH ATTACHED SIGN	▭▭▭	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▭▭▭	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⇉	FLASHING ARROW BOARD	▨	ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▽	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

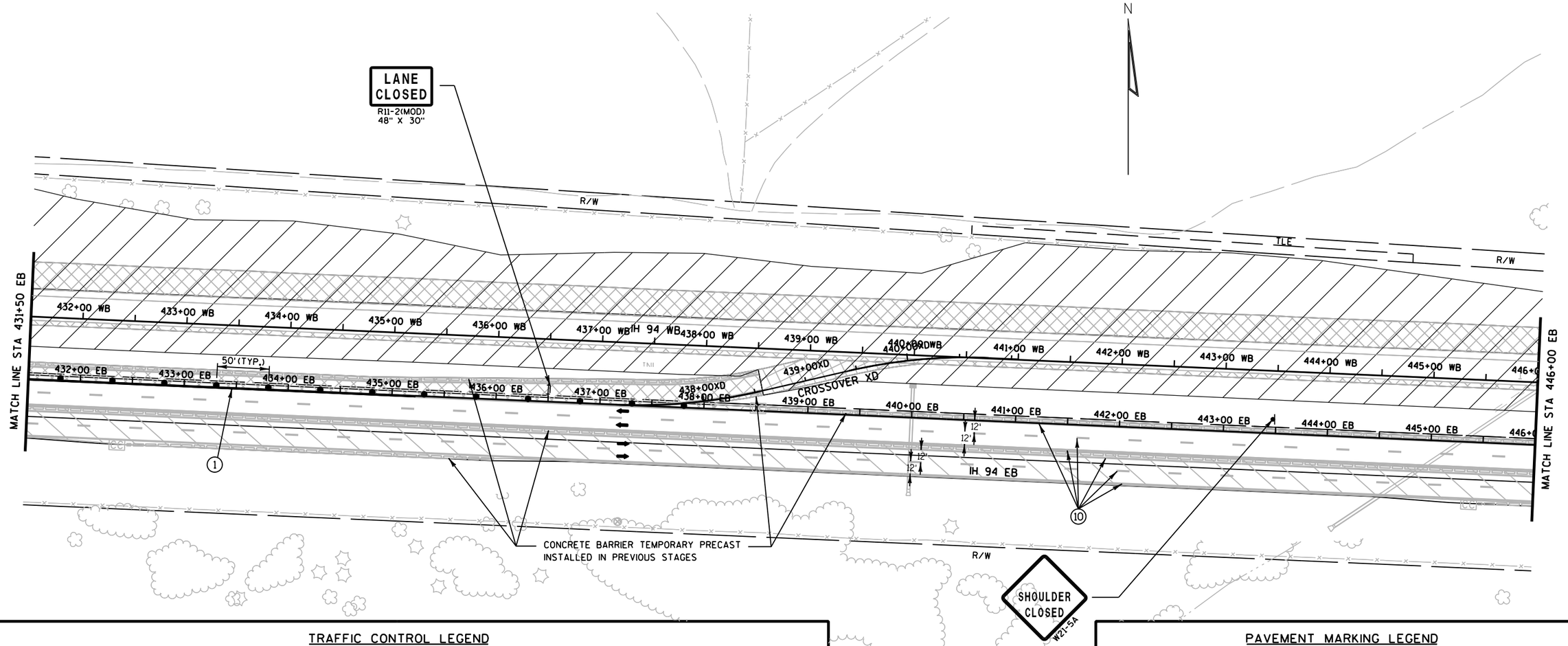
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

(1)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
(2)	TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
(3)	TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
(4)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(5)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
(6)	TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
(7)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
(8)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
(9)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(10)	EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3B (SHEET 2 OF 9)	SHEET 228	E

2



TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	~~~	TEMPORARY SHORING
↕	TYPE III BARRICADE WTH ATTACHED SIGN	▭▭▭	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▭▭▭	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⇶	FLASHING ARROW BOARD	▨	ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▽	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

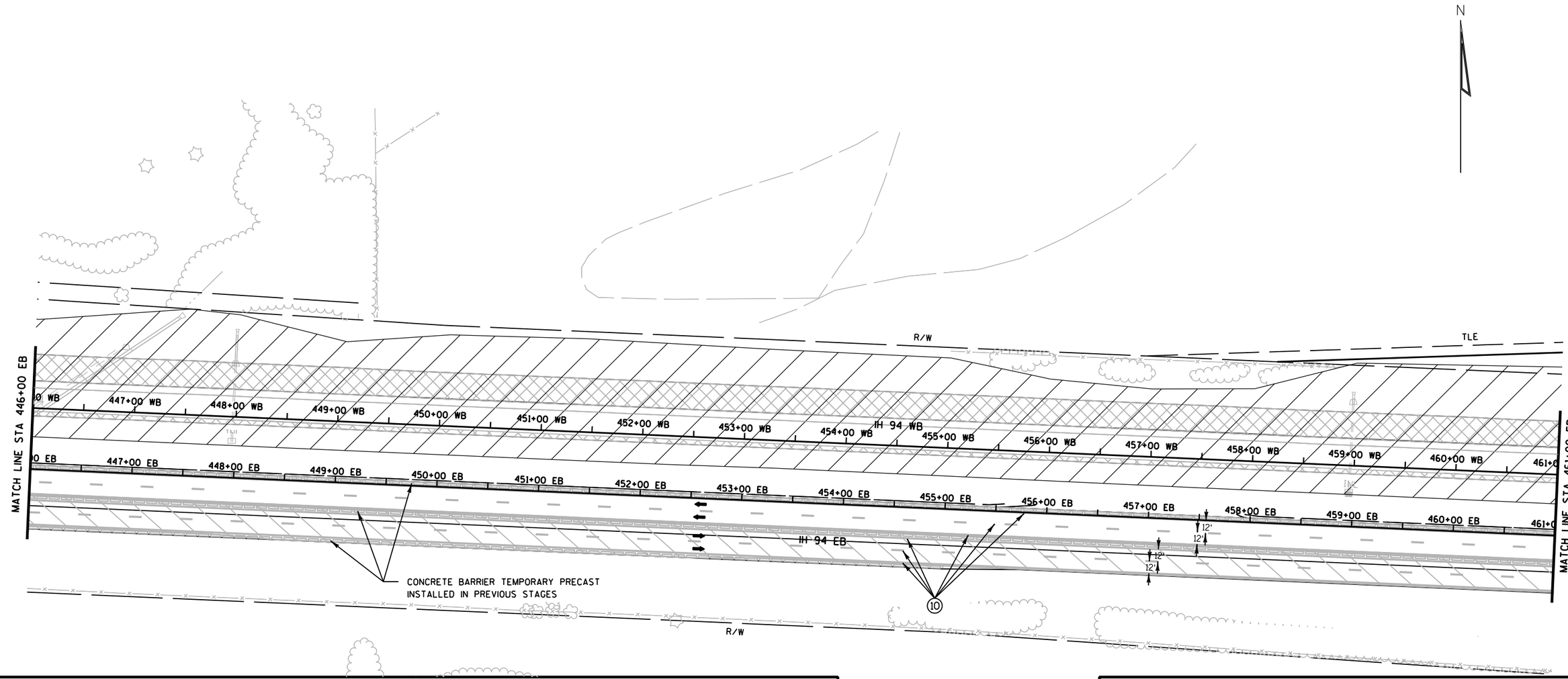
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3B (SHEET 3 OF 9)	SHEET 229	E

2



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

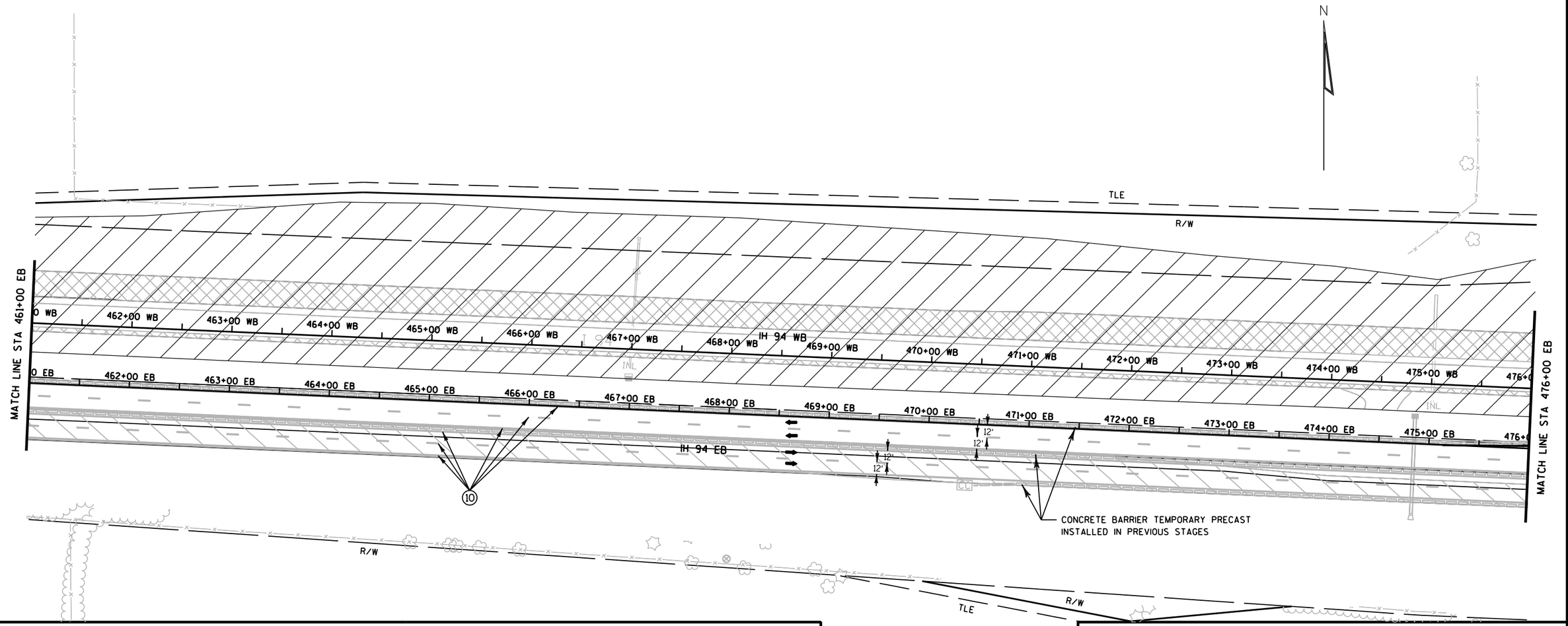
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3B (SHEET 4 OF 9)	SHEET 230	E

2



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

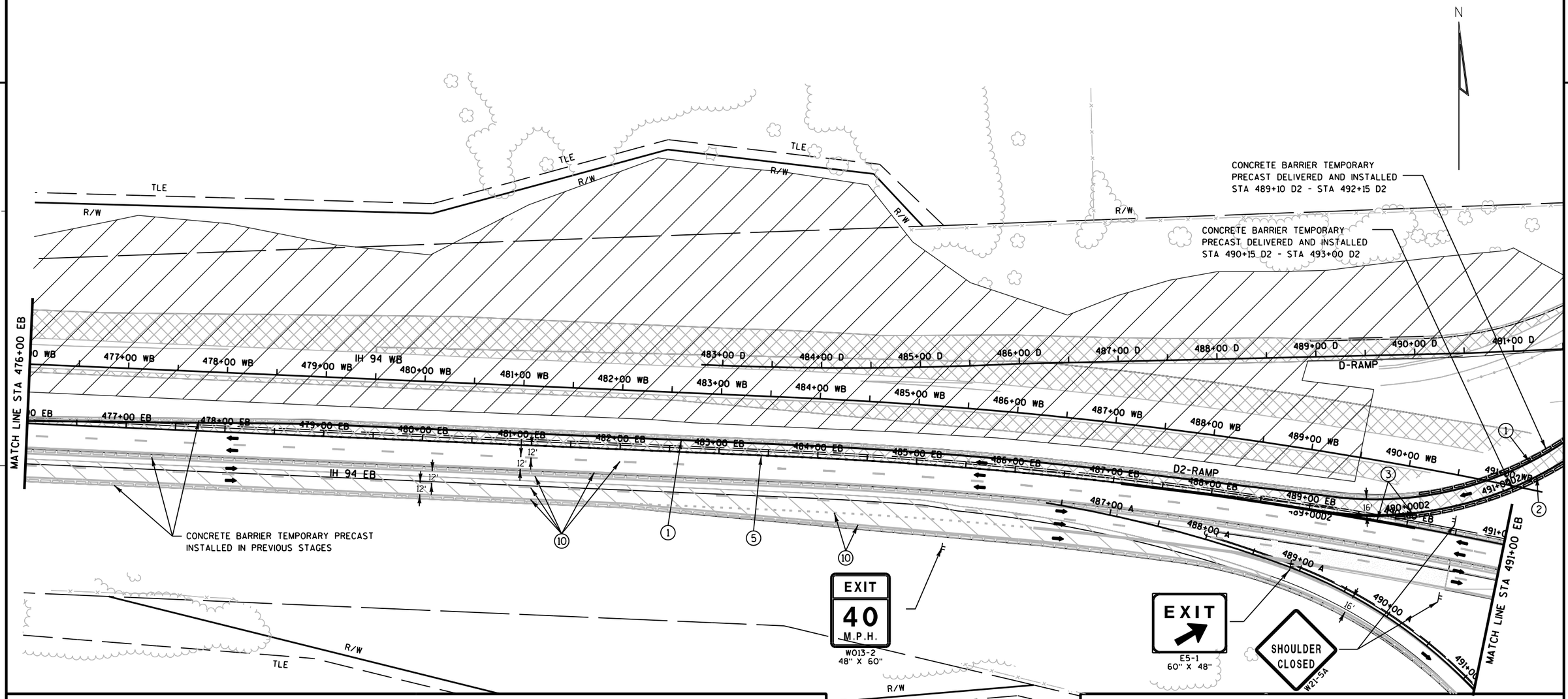
PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3B (SHEET 5 OF 9)	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025119_tc_stage3B.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :
WISDOT/CADDS SHEET 42

2



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3B (SHEET 6 OF 9)	SHEET 232	E

TRAFFIC CONTROL LEGEND

‡	TYPE III BARRICADE	~~~	TEMPORARY SHORING
‡	TYPE III BARRICADE WTH ATTACHED SIGN	▬▬	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▬▬	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⇶	FLASHING ARROW BOARD	▨	ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▽	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		‡	DELINEATORS TEMPORARY, DOUBLE SIDED

SEE STH 65 TRAFFIC CONTROL PLAN FOR ADDITIONAL DETAILS
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

SEE STH 65 TRAFFIC CONTROL PLAN FOR STH 65 TRAFFIC CONTROL ITEMS

W01-2R
35 M.P.H.
W013-1
30" X 30"

CONCRETE BARRIER TEMPORARY PRECAST DELIVERED AND INSTALLED
STA 489+87 D2 - STA 493+00 D2

CONCRETE BARRIER TEMPORARY PRECAST DELIVERED AND INSTALLED
STA 490+14 D2 - STA 491+88 D2

CONCRETE BARRIER TEMPORARY PRECAST INSTALLED IN PREVIOUS STAGES

CONCRETE BARRIER TEMPORARY PRECAST DELIVERED AND INSTALLED
STA 501+51 C2 - STA 502+04 C2

CONCRETE BARRIER TEMPORARY PRECAST DELIVERED AND INSTALLED
STA 501+60 C2 - STA 502+73 C2

W04-1

RAMP CLOSED
R11-2(MOD)
48" X 30"

EXIT
E5-1
60" X 48"

MOVE

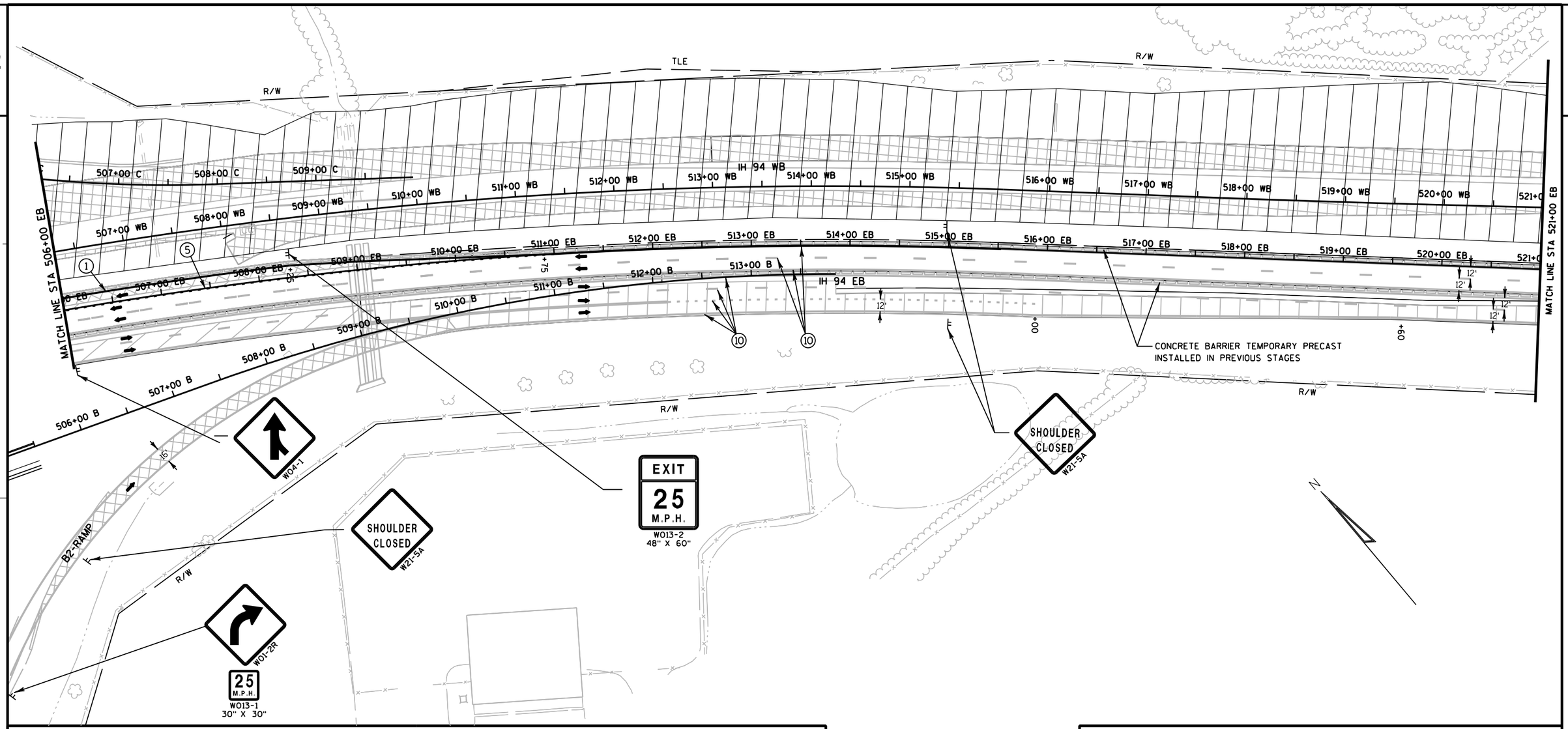
EXIT 10
65
River Falls
New Richmond

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN
11. TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3B (SHEET 7 OF 9)	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025121_tc_stage3B.dgn
PLOT DATE : 1/6/2012
PLOT BY : KL Engineering
PLOT NAME :
PLOT SCALE :
WISDOT/CADDS SHEET 42



TRAFFIC CONTROL LEGEND

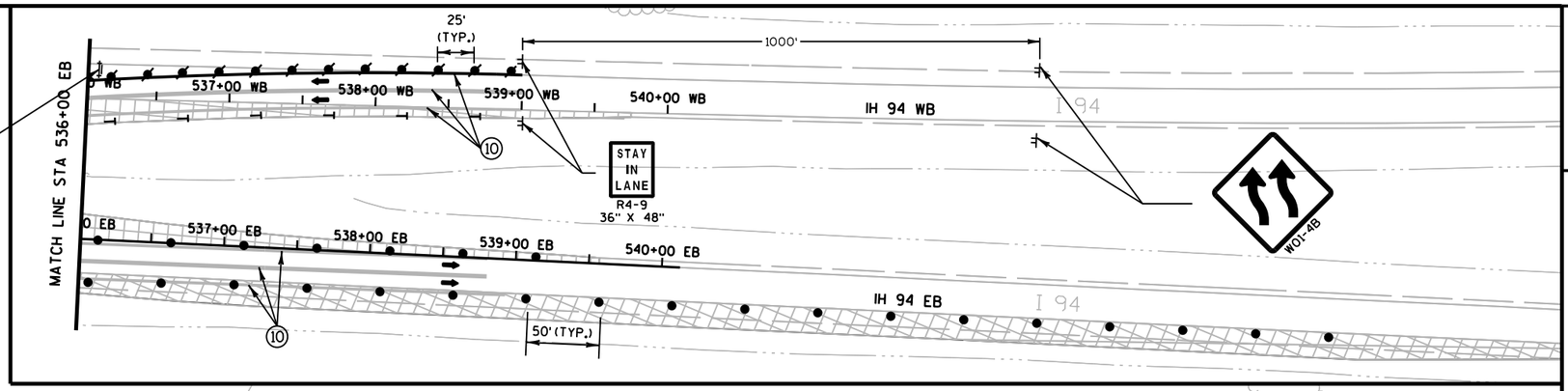
↕	TYPE III BARRICADE	~~~	TEMPORARY SHORING
	TYPE III BARRICADE WTH ATTACHED SIGN		CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM		CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		WORK AREA
	FLASHING ARROW BOARD		ASPHALTIC SURFACE TEMPORARY
⊦	SIGN ON SUPPORT		HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

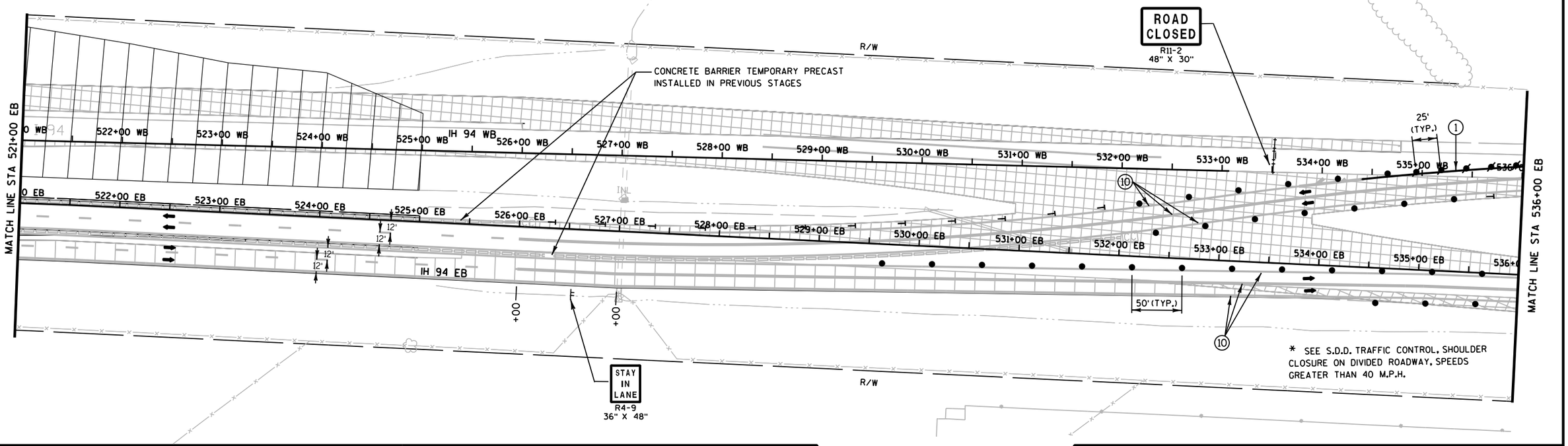
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3B (SHEET 8 OF 9)	SHEET 234	E





TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3B (SHEET 9 OF 9)	SHEET 235	E

2

TRAFFIC

IH 94

IH 94 EB TRAFFIC TO REMAIN ON THE STAGE 2A/2B TEMPORARY EB MAINLINE WIDENING.

IH 94 WB TRAFFIC TO REMAIN ON THE NEW EB MAINLINE.

IH 94/STH 65 EB EXIT RAMP TRAFFIC TO REMAIN ON THE STAGE 2A TEMPORARY EB EXIT A2-RAMP.

IH 94/STH 65 EB ENTRANCE RAMP TRAFFIC TO REMAIN ON THE STAGE 2A TEMPORARY ENTRANCE B2-RAMP.

IH 94/STH 65 WB EXIT RAMP TRAFFIC TO MOVE TO THE NEW WB MAINLINE AND THE NEW WB EXIT C-RAMP.

IH 94/STH 65 WB ENTRANCE RAMP TRAFFIC TO MOVE TO THE NEW WB ENTRANCE D-RAMP AND THE NEW WB MAINLINE TO THE STAGE 3B TEMPORARY CROSSOVER.

STH 65

STH 65 TRAFFIC TO REMAIN ON THE STAGE 1A-2A TEMPORARY WIDENING.

IH 94/STH 65 EB RAMP TRAFFIC TO REMAIN ON STAGE 1A-2A TEMPORARY WIDENING RAMP INTERSECTION WITH TEMPORARY SIGNALS.

IH 94/STH 65 WB RAMP TRAFFIC TO MOVE TO THE STAGE 2B-3B TEMPORARY RAMP INTERSECTION.

CONSTRUCTION

IH 94

SWITCH WB ENTRANCE RAMP TRAFFIC TO THE NEW WB ENTRANCE D-RAMP AND THE NEW IH 94 WB MAINLINE AND THE STAGE 3B TEMPORARY WB ENTRANCE CROSSOVER.

PLACE CONCRETE BARRIER TEMPORARY PRECAST ON THE STAGE 3C TEMPORARY CROSSOVER XD STA 438+50XD - STA 439+00XD AND STA 438+45XD TO STA 440+10XD

SWITCH WB EXIT RAMP TRAFFIC TO THE NEW IH 94 WB MAINLINE AND THE NEW EB EXIT C-RAMP.

COMPLETE STAGE 3C MAINLINE IH 94 EB STA 489+50EB - STA 504+00EB

COMPLETE THE NEW WB EXIT C-RAMP STA 499+60C - STA 502+00C

COMPLETE THE NEW WB ENTRANCE D-RAMP STA 492+00D - STA 493+50D

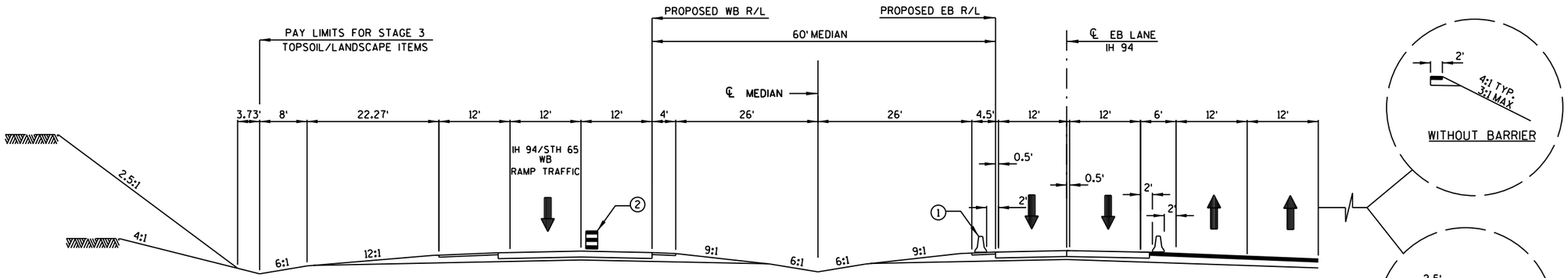
STH 65

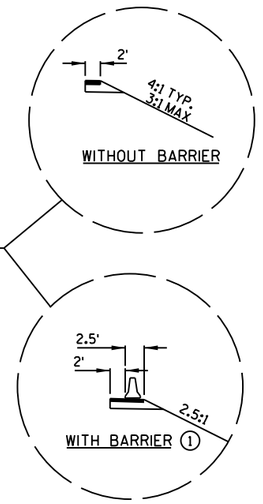
SWITCH WB RAMP TRAFFIC TO THE TEMPORARY INTERSECTION AT THE NEW RAMPS.

COMPLETE STAGE 3C MAINLINE STH 65 RT STA 56+50S - STA 57+40S

BUILD STH 65 MEDIAN CROSSOVER FROM 55+25S TO 57+40S

2





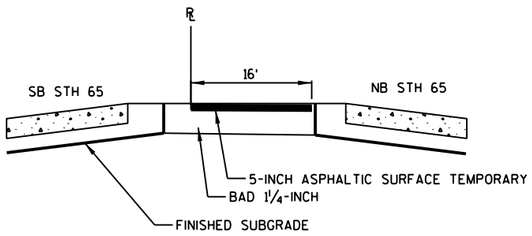
CONSTRUCTION STAGE 3C TYPICAL SECTION

411+50 - 525+00

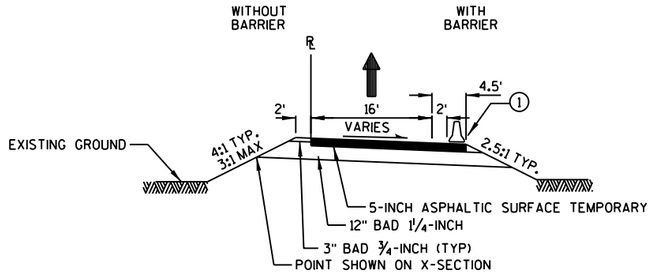
NOTES:

① ALL CONCRETE BARRIER TEMPORARY PRECAST TO BE PLACED AT LOCATIONS SHOWN IN TRAFFIC CONTROL STAGING PLAN

② ALL TRAFFIC CONTROL DRUMS TO BE PLACED AS SHOWN IN TRAFFIC CONTROL STAGING PLAN



STH 65 X-OVER SECTION

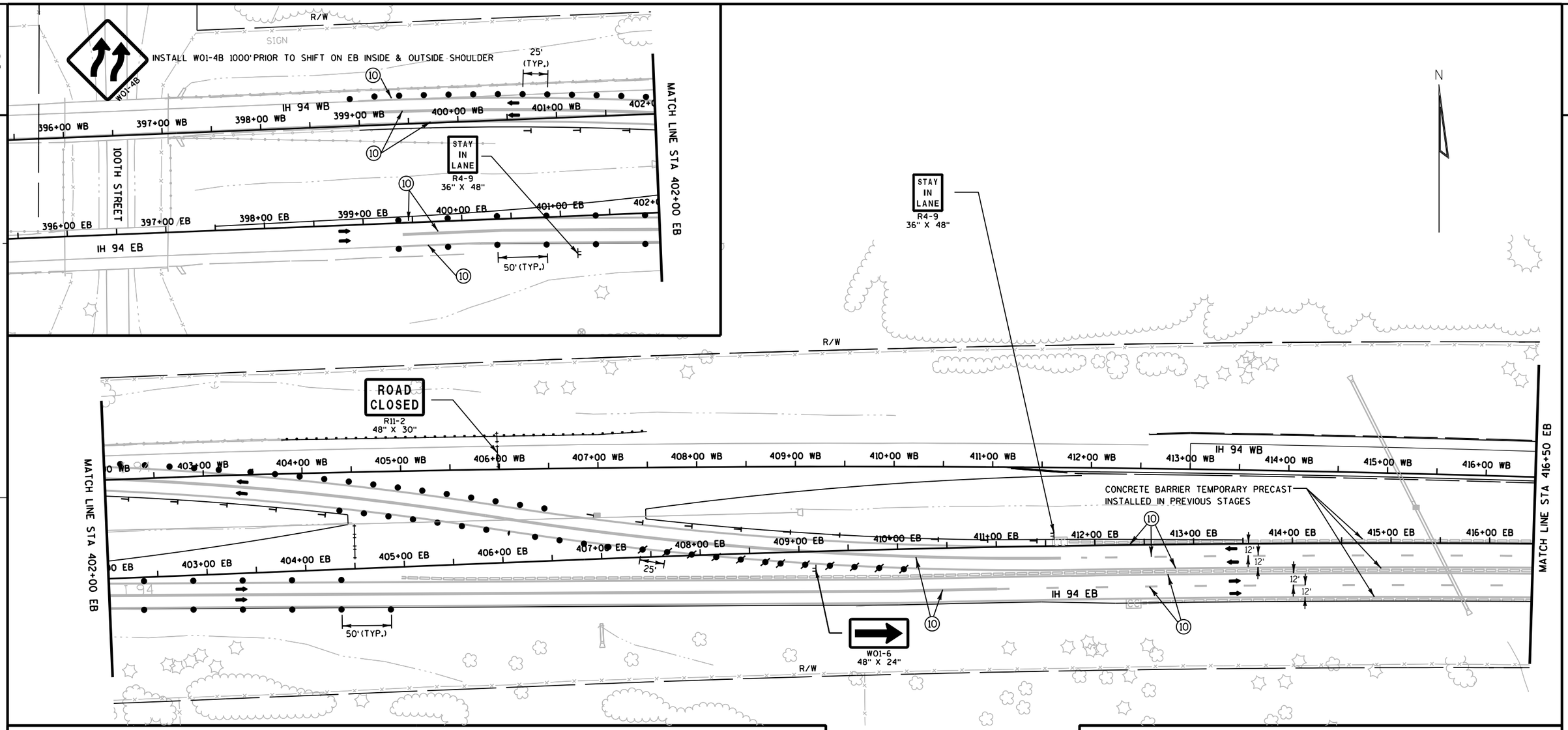


TEMPORARY RAMP TYPICAL SECTION

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3C TYPICAL SECTIONS	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\tc_All_Stages.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 42



TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	∿∿	TEMPORARY SHORING
↕	TYPE III BARRICADE WTH ATTACHED SIGN	▰▰▰	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▱▱▱	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
✎	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
✳	FLASHING ARROW BOARD	▨	ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▽	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

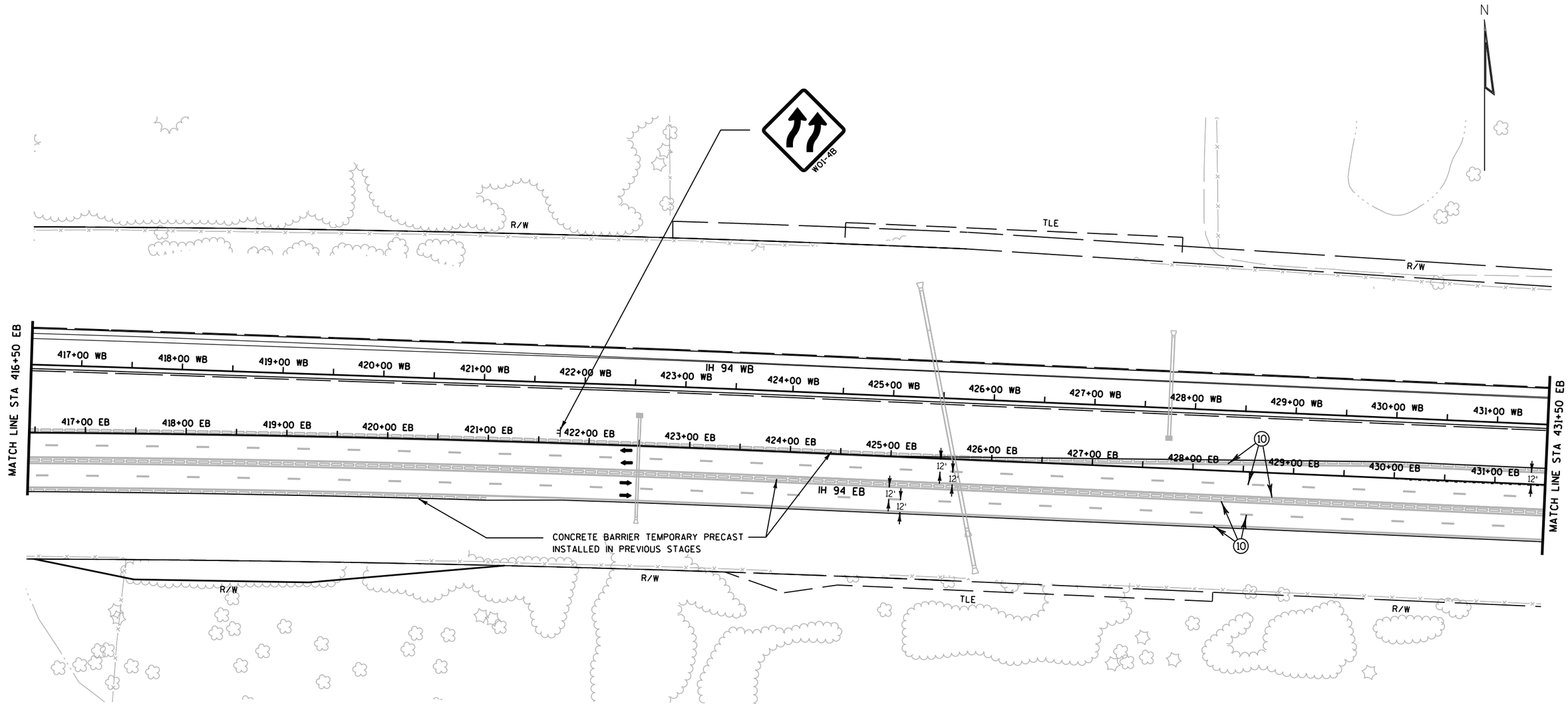
* SEE S.D.D. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.

PAVEMENT MARKING LEGEND

(1)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
(2)	TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
(3)	TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
(4)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(5)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
(6)	TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
(7)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
(8)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
(9)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(10)	EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3C (SHEET 1 OF 9)	SHEET 237	E

2



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

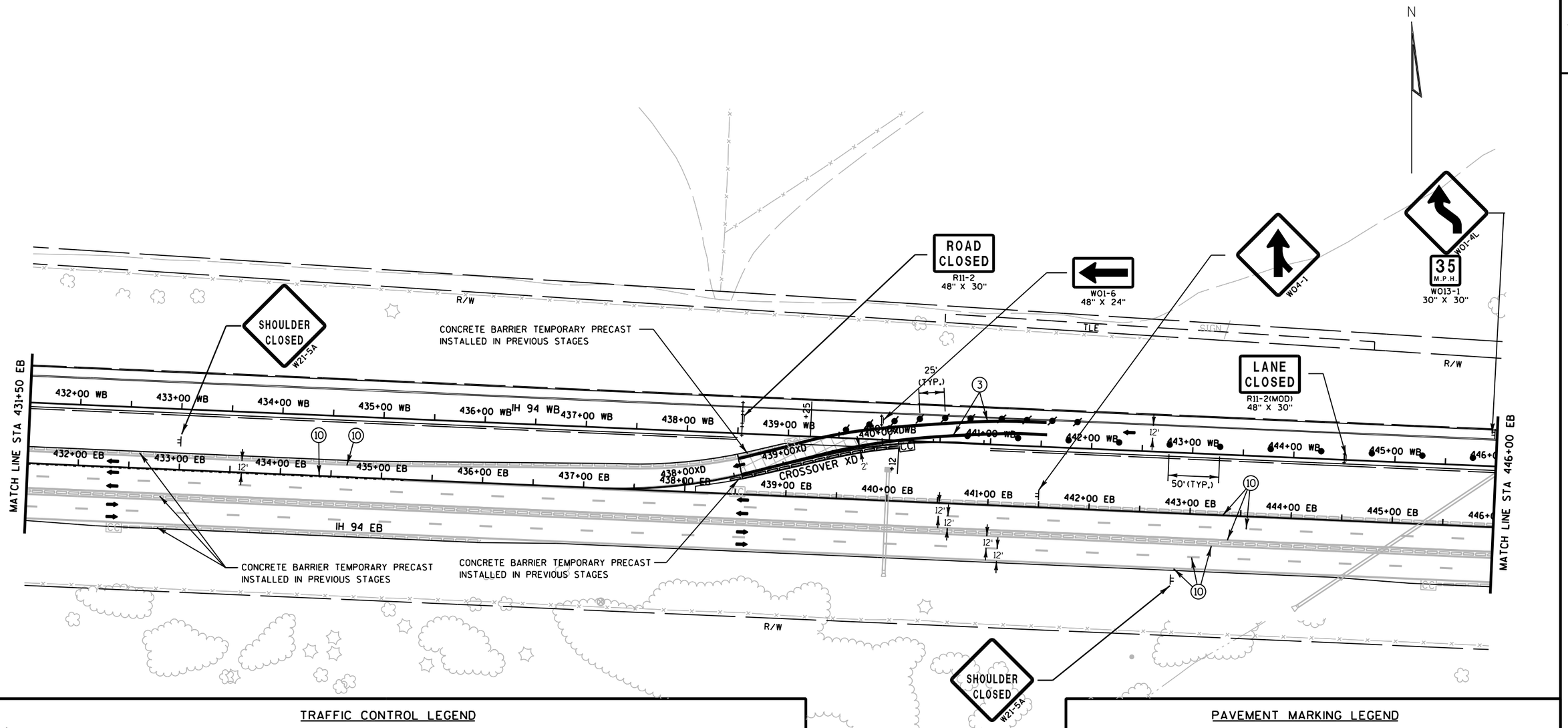
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3C (SHEET 2 OF 9)	SHEET 238	E

2



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

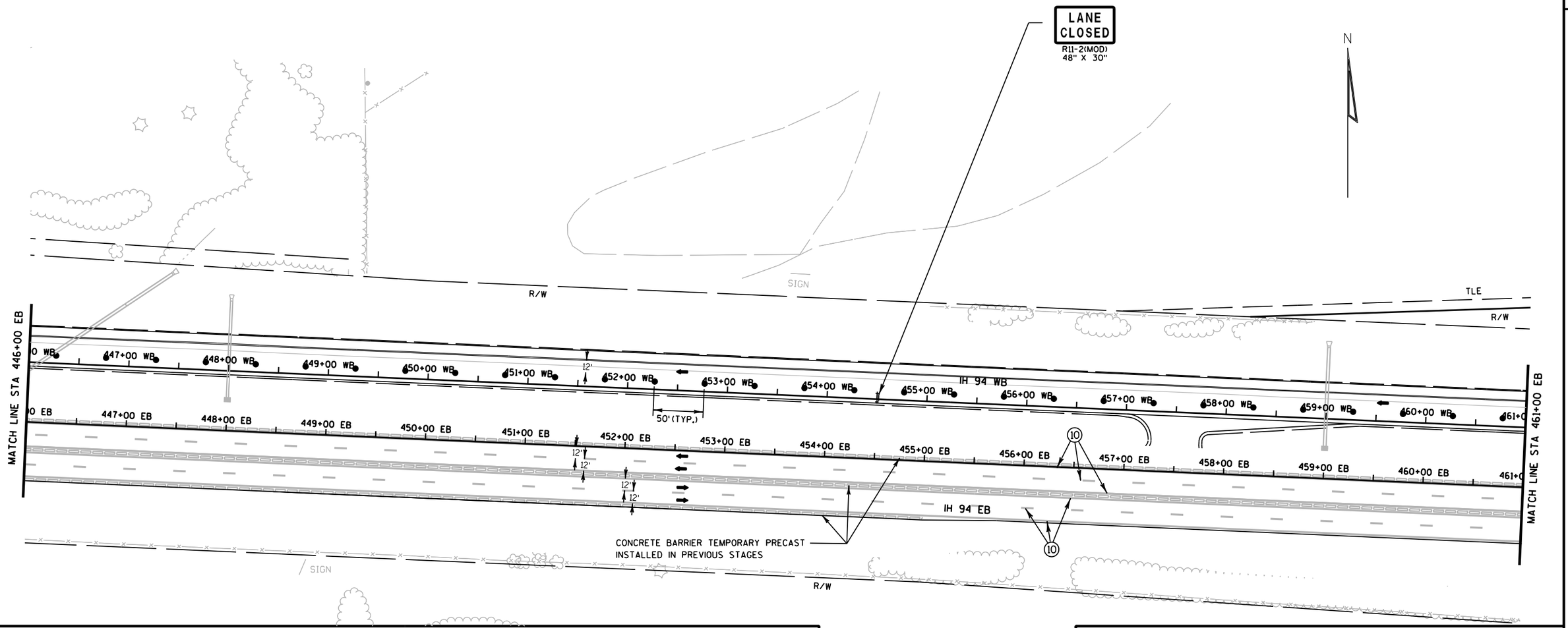
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3C (SHEET 3 OF 9)	SHEET 239	E

2



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

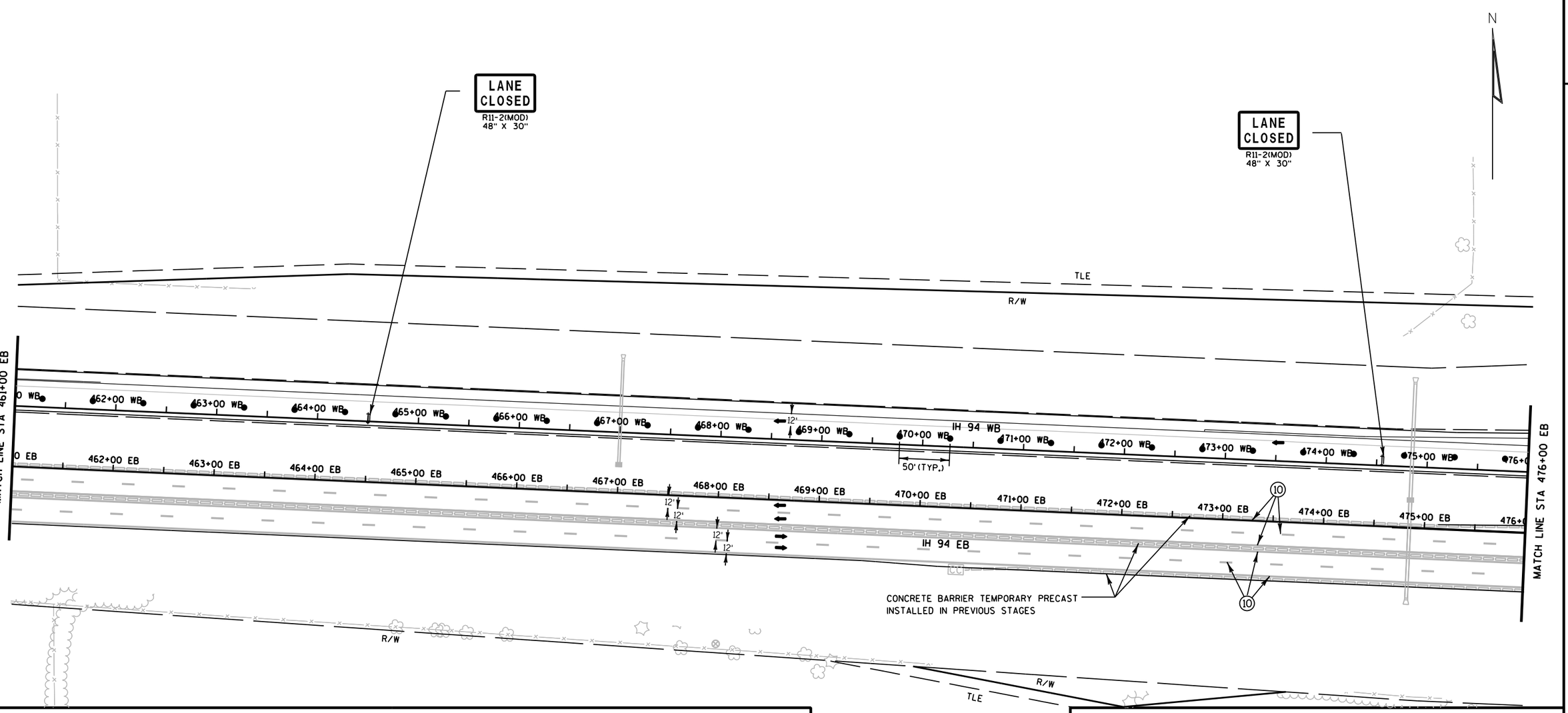
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3C (SHEET 4 OF 9)	SHEET 240	E

2



TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	~~~	TEMPORARY SHORING
↕	TYPE III BARRICADE WTH ATTACHED SIGN	▭▭▭	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▭▭▭	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
✱	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⇶	FLASHING ARROW BOARD	▨	ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
⊽	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

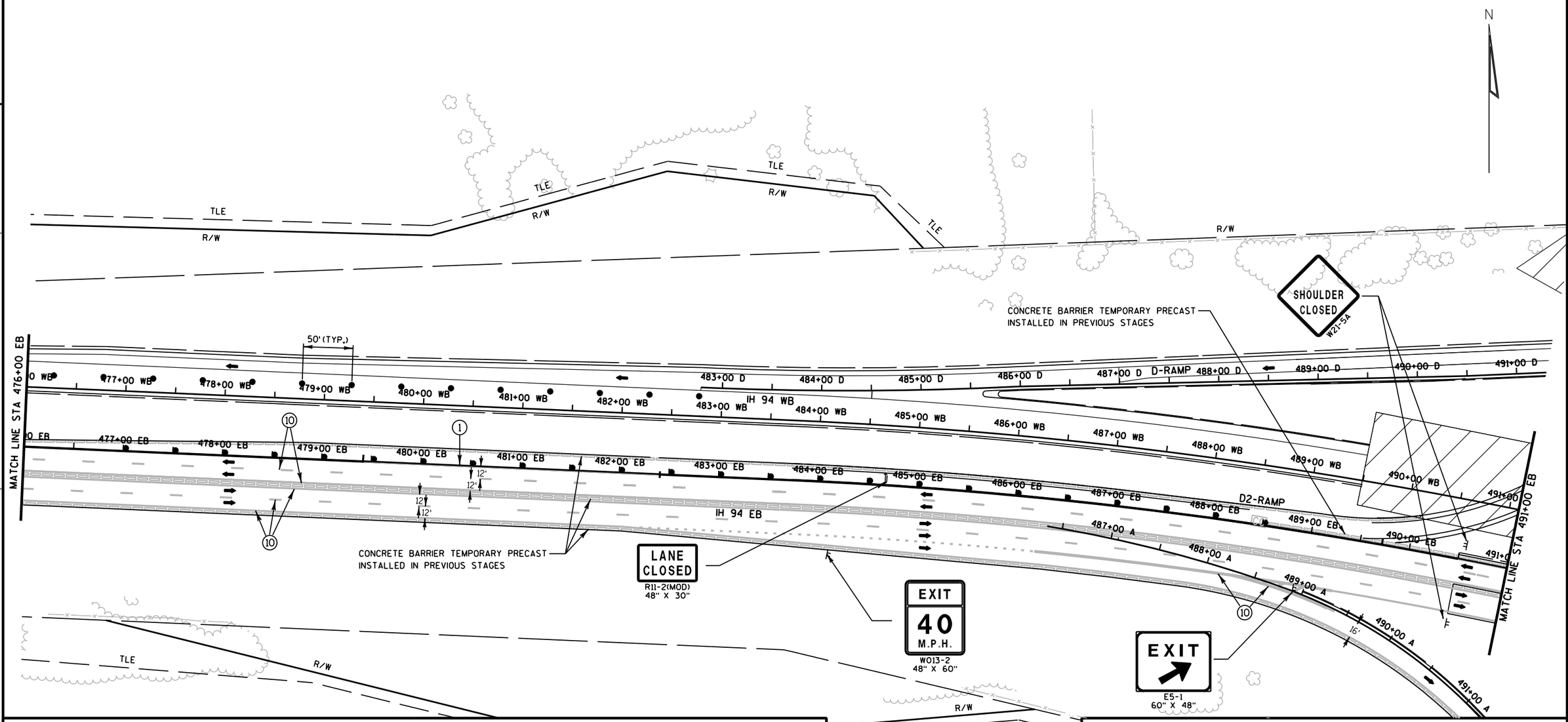
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

(1)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
(2)	TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
(3)	TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
(4)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(5)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
(6)	TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
(7)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
(8)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
(9)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(10)	EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3C (SHEET 5 OF 9)	SHEET 241	E

2



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3C (SHEET 6 OF 9)	SHEET 242	E

TRAFFIC CONTROL LEGEND

‡	TYPE III BARRICADE	~~~	TEMPORARY SHORING
‡	TYPE III BARRICADE WTH ATTACHED SIGN	▭▭▭	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▭▭▭	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⁂	FLASHING ARROW BOARD	▨	ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▽	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

N

CONSTRUCT UNDER TRAFFIC, SEE SDD 'TRAFFIC CONTROL, RAMP CONSTRUCTION STAGING'

SEE STH 65 TRAFFIC CONTROL PLAN FOR STH 65 TRAFFIC CONTROL ITEMS

CONSTRUCT UNDER TRAFFIC, SEE SDD 'TRAFFIC CONTROL, RAMP CONSTRUCTION STAGING'

RAMP CLOSED
R11-2(MOD)
48" X 30"

CONCRETE BARRIER TEMPORARY PRECAST INSTALLED IN PREVIOUS STAGES

MATCH LINE STA 491+00 EB

MATCH LINE STA 506+00 EB

PAVEMENT MARKING LEGEND

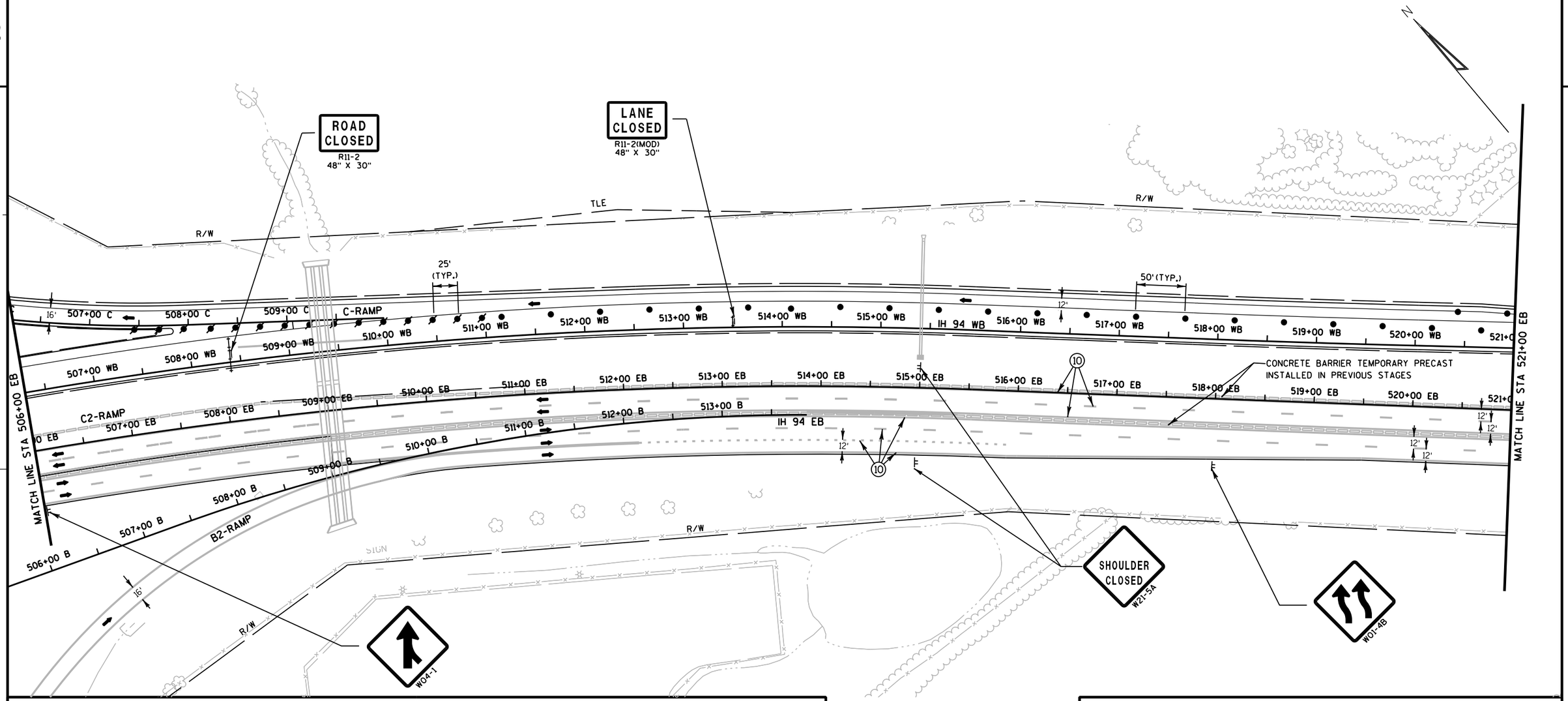
1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN
11. TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3C (SHEET 7 OF 9)	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025134_tc_stage3C.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 42

2



TRAFFIC CONTROL LEGEND

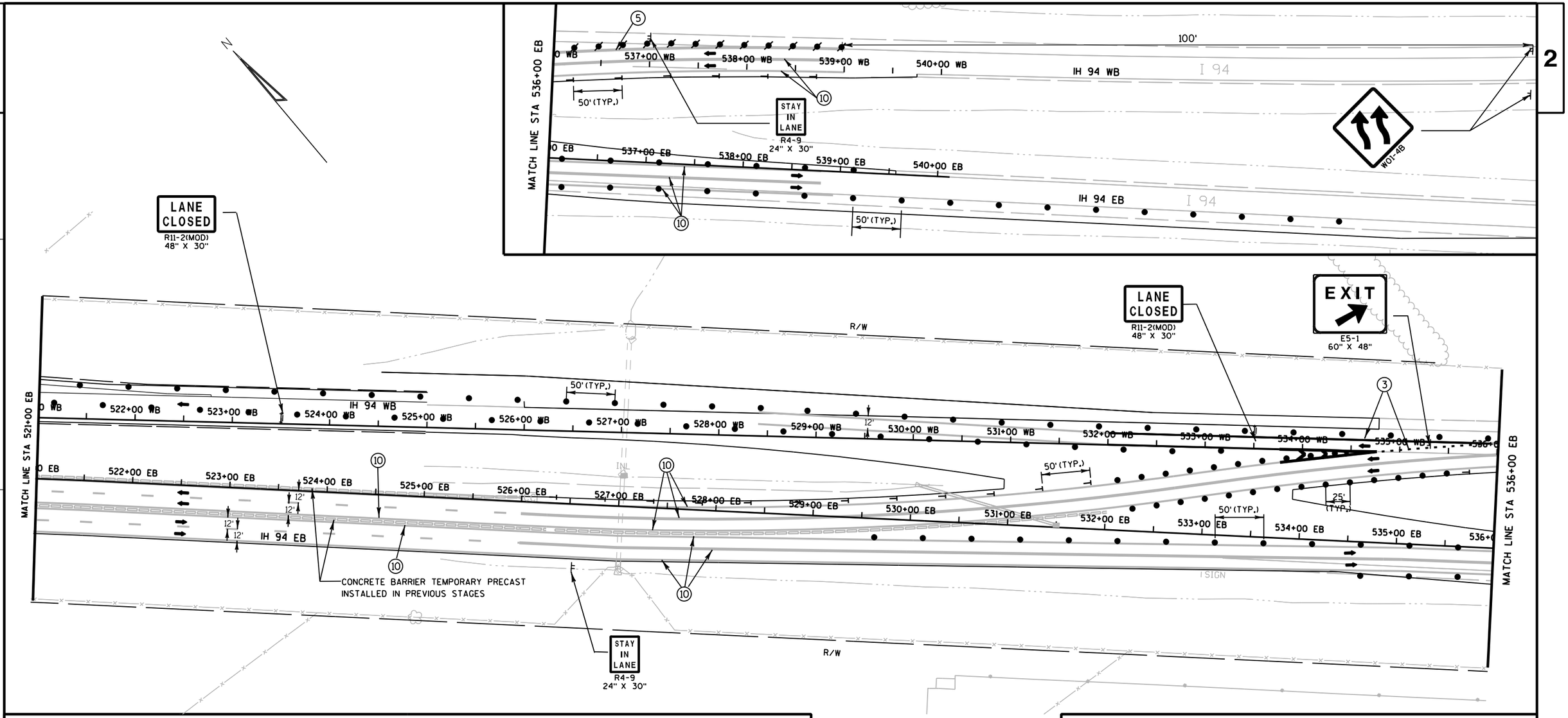
↕	TYPE III BARRICADE	∿∿∿	TEMPORARY SHORING
↕	TYPE III BARRICADE WTH ATTACHED SIGN	▭▭▭	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▭▭▭	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
✐	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⇶	FLASHING ARROW BOARD	▨	ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▽	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

(1)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
(2)	TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
(3)	TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
(4)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(5)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
(6)	TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
(7)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
(8)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
(9)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(10)	EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3C (SHEET 8 OF 9)	SHEET 244	E



TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	~~~	TEMPORARY SHORING
↕	TYPE III BARRICADE WTH ATTACHED SIGN	▭▭▭	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▭▭▭	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
✐	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⇶	FLASHING ARROW BOARD	▨	ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▽	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

* SEE S.D.D. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.

PAVEMENT MARKING LEGEND

(1)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
(2)	TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
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(9)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(10)	EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3C (SHEET 9 OF 9)	SHEET E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025137_tc_stage3c.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :
WISDOT/CADDS SHEET 42

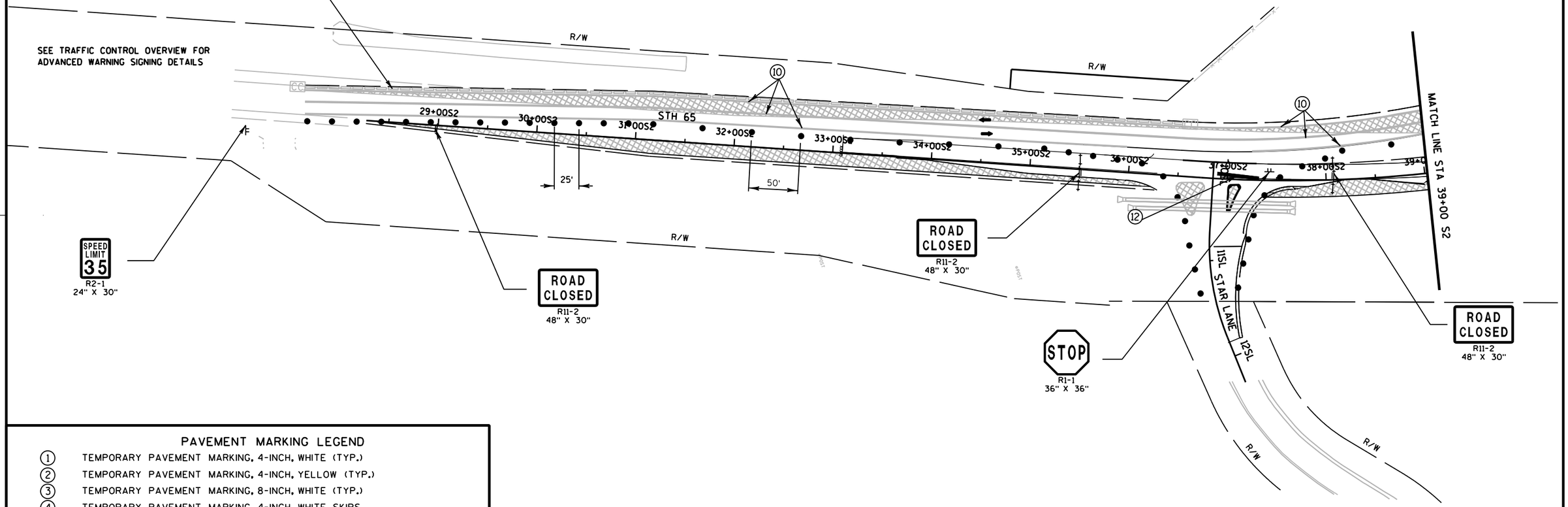
2

TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	∿∿	TEMPORARY SHORING
↕	TYPE III BARRICADE WTH ATTACHED SIGN	▭▭▭	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▭▭▭	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⇶	FLASHING ARROW BOARD	▩	ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT	▥	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▽	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

SEE SDD TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC



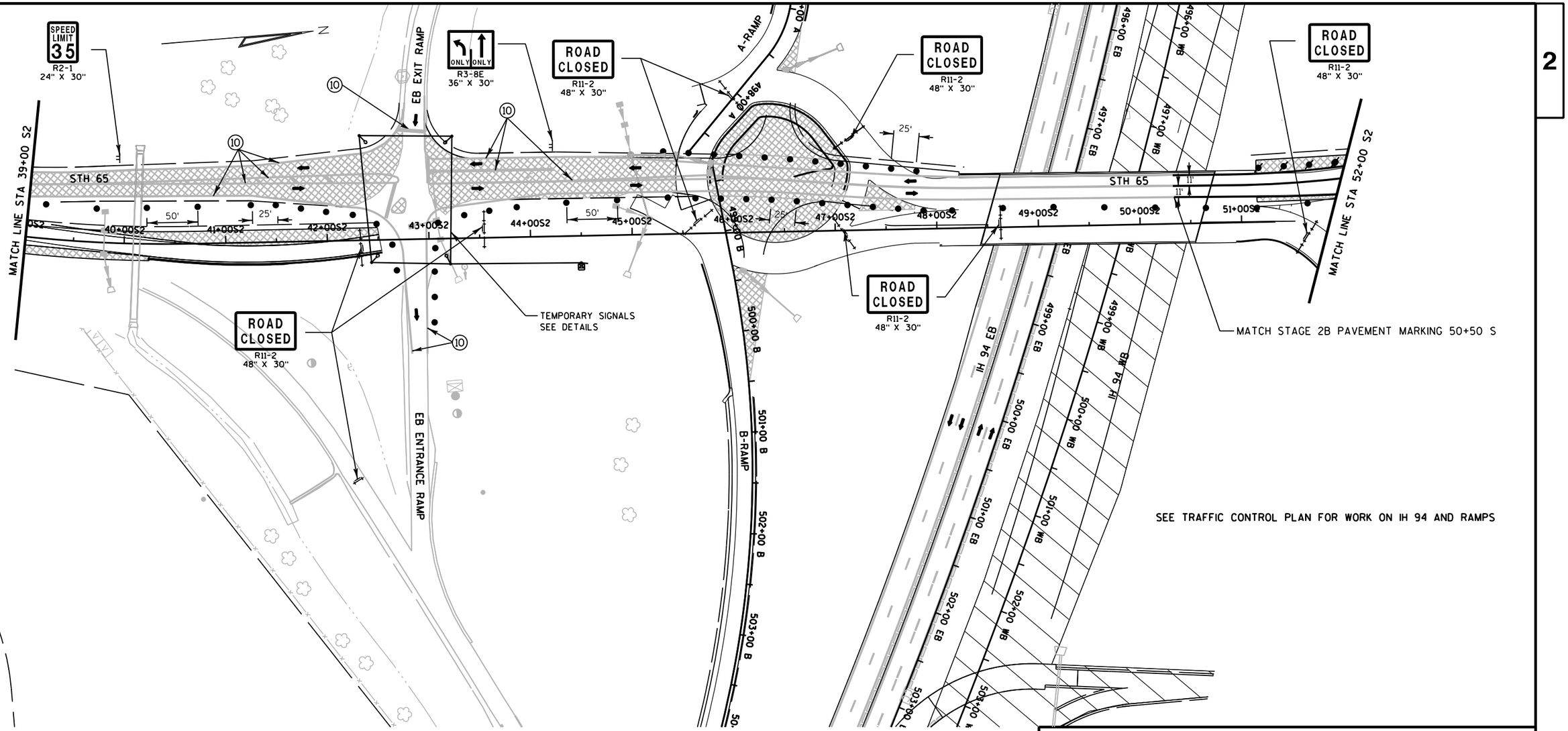
PAVEMENT MARKING LEGEND

(1)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
(2)	TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
(3)	TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
(4)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(5)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
(6)	TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
(7)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
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(9)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(10)	EXISTING PAVEMENT MARKINGS TO REMAIN
(11)	TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE
(12)	TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	STH 65 TRAFFIC CONTROL - STAGE 3C THRU 3D (SHEET 1 OF 3)	SHEET E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\65301_stage3C.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 42



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CC CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
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7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN
11. TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE
12. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	STH 65 TRAFFIC CONTROL - STAGE 3C THRU 3D (SHEET 2 OF 3)	SHEET 247	E

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
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10. EXISTING PAVEMENT MARKINGS TO REMAIN
11. TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE
12. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH

MATCH LINE STA 52+00 S2

ONLY ONLY R3-8E 36" X 30"

MOVE R3-2

MOVE R3-1

MOVE ONE WAY R6-2L

MOVE ONE WAY R6-2R

MOVE W ES 94 J2-1

MOVE W ES 94 J2-1

STOP R1-1 36" X 36"

ROAD CLOSED R11-2 48" X 30"

RAMP CLOSED R11-2(MOD) 48" X 30"

DO NOT ENTER R5-1 36" X 36"

D-RAMP

C-RAMP

DB-RAMP

WB ENTRANCE RAMP

WB EXIT RAMP

STH 65

70TH AVENUE

R/W

SIGN

MATCH STAGE 2B PAVEMENT MARKING 59+90

CONSTRUCT XOVER
16' WIDE 5-INCHES TEMPORARY ASPHALT OVER
11-INCH 1¼-INCH BASE AGGREGATE DENSE

SEE TRAFFIC CONTROL OVERVIEW FOR ADVANCED WARNING SIGNING DETAILS

SPEED LIMIT 35 R2-1 24" X 30"

W03-1

TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CC CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	STH 65 TRAFFIC CONTROL - STAGE 3C THRU 3D (SHEET 3 OF 3)	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\65303_stage3C.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

2

TRAFFIC

IH 94

IH 94 EB TRAFFIC TO MOVE TO THE NEW EB MAINLINE.

IH 94 WB TRAFFIC TO MOVE TO THE NEW WB MAINLINE.

IH 94/STH 65 EB EXIT RAMP TRAFFIC TO REMAIN ON THE STAGE 2A TEMPORARY EB EXIT A2-RAMP.

IH 94/STH 65 EB ENTRANCE RAMP TRAFFIC TO REMAIN ON THE STAGE 2A TEMPORARY ENTRANCE B2-RAMP.

IH 94/STH 65 WB EXIT RAMP TRAFFIC TO REMAIN ON THE NEW WB EXIT C-RAMP.

IH 94/STH 65 WB ENTRANCE RAMP TRAFFIC TO REMAIN ON THE NEW WB ENTRANCE D-RAMP.

STH 65

STH 65 TRAFFIC TO REMAIN ON THE STAGE 1A-2A TEMPORARY WIDENING.

IH 94/STH 65 EB RAMP TRAFFIC TO REMAIN ON STAGE 1A-2A TEMPORARY WIDENING RAMP INTERSECTION WITH TEMPORARY SIGNALS.

IH 94/STH 65 WB RAMP TRAFFIC TO REMAIN ON THE STAGE 2B-3B TEMPORARY RAMP INTERSECTION.

CONSTRUCTION

IH 94

SWITCH WB TRAFFIC TO THE NEW WB MAINLINE.

SWITCH EB TRAFFIC TO THE NEW EB MAINLINE.

COMPLETE THE NEW MAINLINE SHOULDERS
IH 94 WB LT STA 402+00WB - STA 413+00WB AND STA 525+00WB - STA 534+75WB

COMPLETE THE NEW MAINLINE SHOULDERS
IH 94 WB RT STA 438+50WB - STA 441+00WB

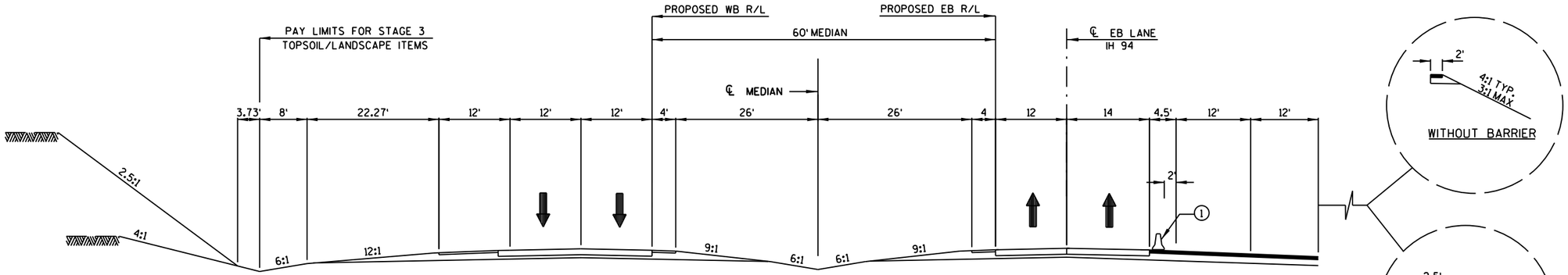
COMPLETE THE NEW MAINLINE SHOULDERS
IH 94 EB LT STA 425+00EB - STA 438+25EB, STA 475+00EB - STA 489+75EB,
AND STA 503+25EB - STA 511+00EB

REMOVE THE STAGE 1 MAINLINE CROSSOVERS STA 397+50 -STA 411+75
AND STA 525+00 - STA 539+75

COMPLETE STAGE 3D TEMPORARY EB ENTRANCE
B3-RAMP STA 501+65B3 - STA 509+00B3

COMPLETE PAVEMENT RESURFACING STA 525+00WB - STA 545+00WB

2



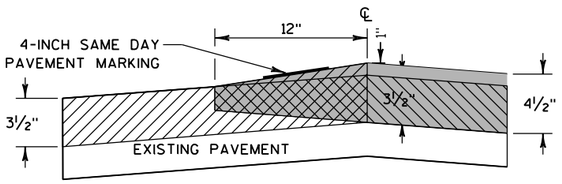
CONSTRUCTION STAGE 3D TYPICAL SECTION

411+50 - 525+00

NOTES;

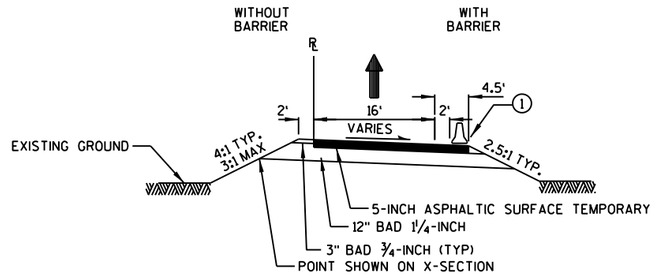
1. ALL CONCRETE BARRIER TEMPORARY PRECAST TO BE PLACED AT LOCATIONS SHOWN IN TRAFFIC CONTROL STAGING PLAN

RESURFACE CROWN JOINT



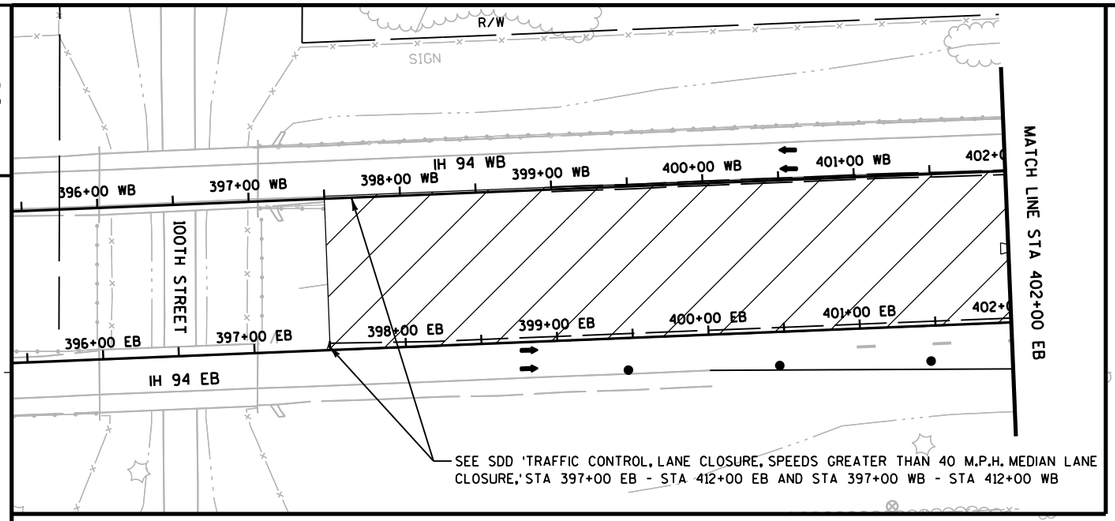
LEGEND

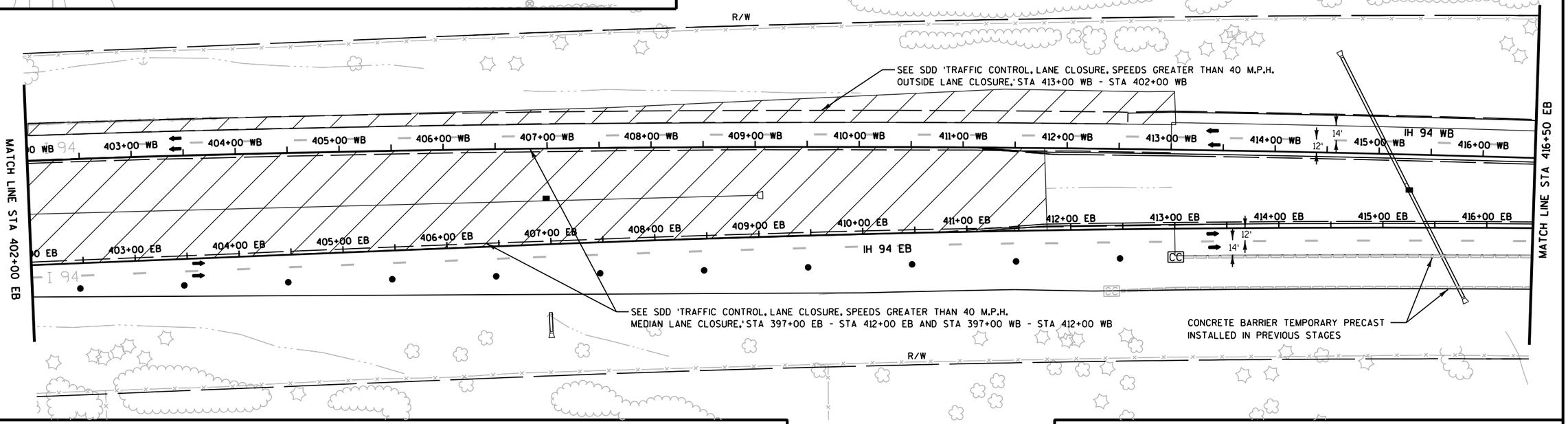
- MILLING FIRST PASS
- MILLING SECOND PASS
- HMA PAVEMENT TYPE E-30



TEMPORARY RAMP TYPICAL SECTION

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3D TYPICAL SECTIONS	SHEET 249	E





N

TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

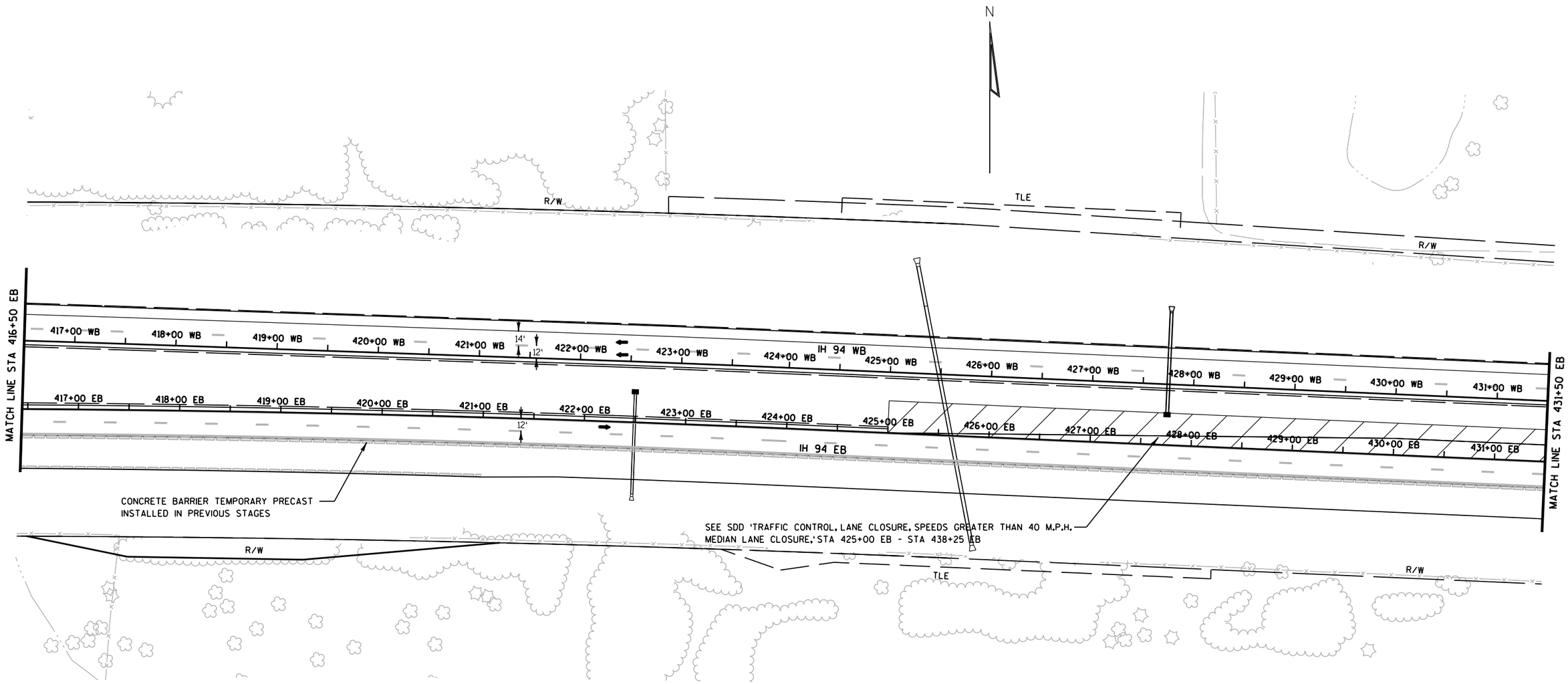
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
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10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3D (SHEET 1 OF 9)	SHEET 250	E

2



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
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FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

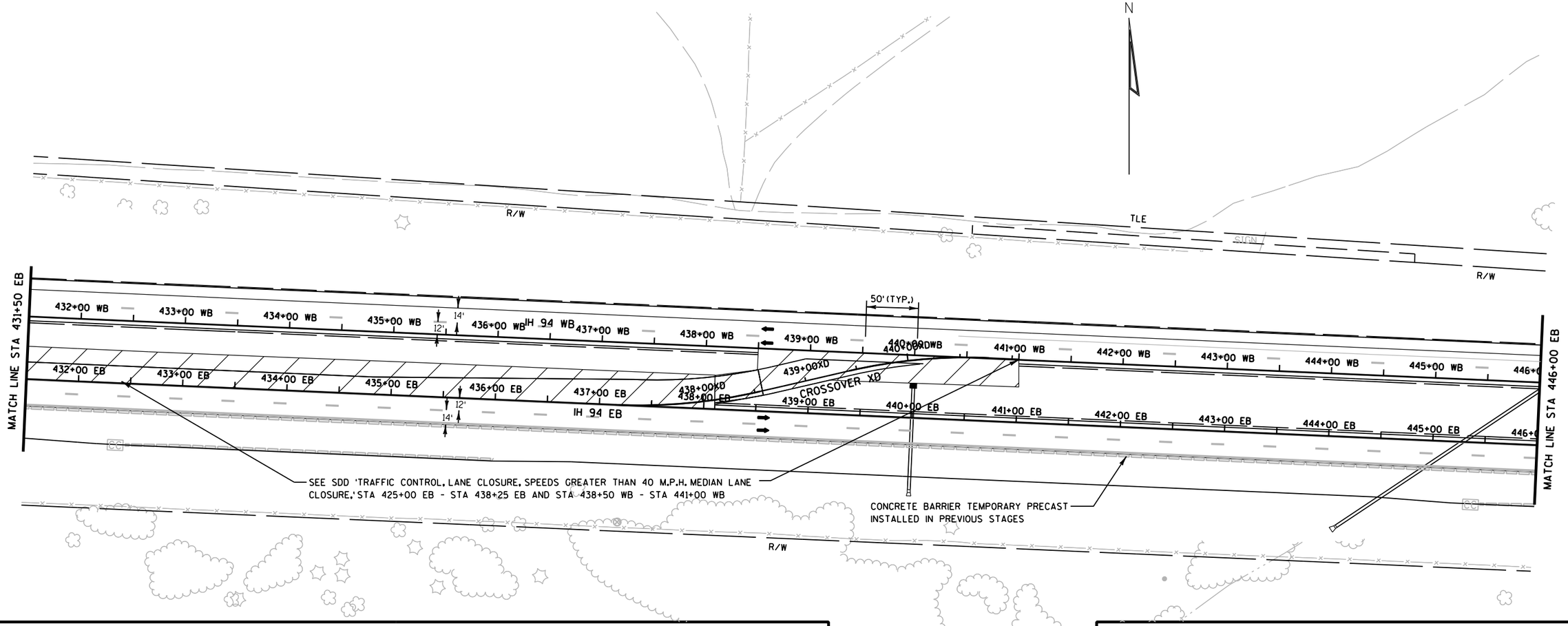
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3D (SHEET 2 OF 9)	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025142_tc_stage3D.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :
WISDOT/CADDS SHEET 42

2



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
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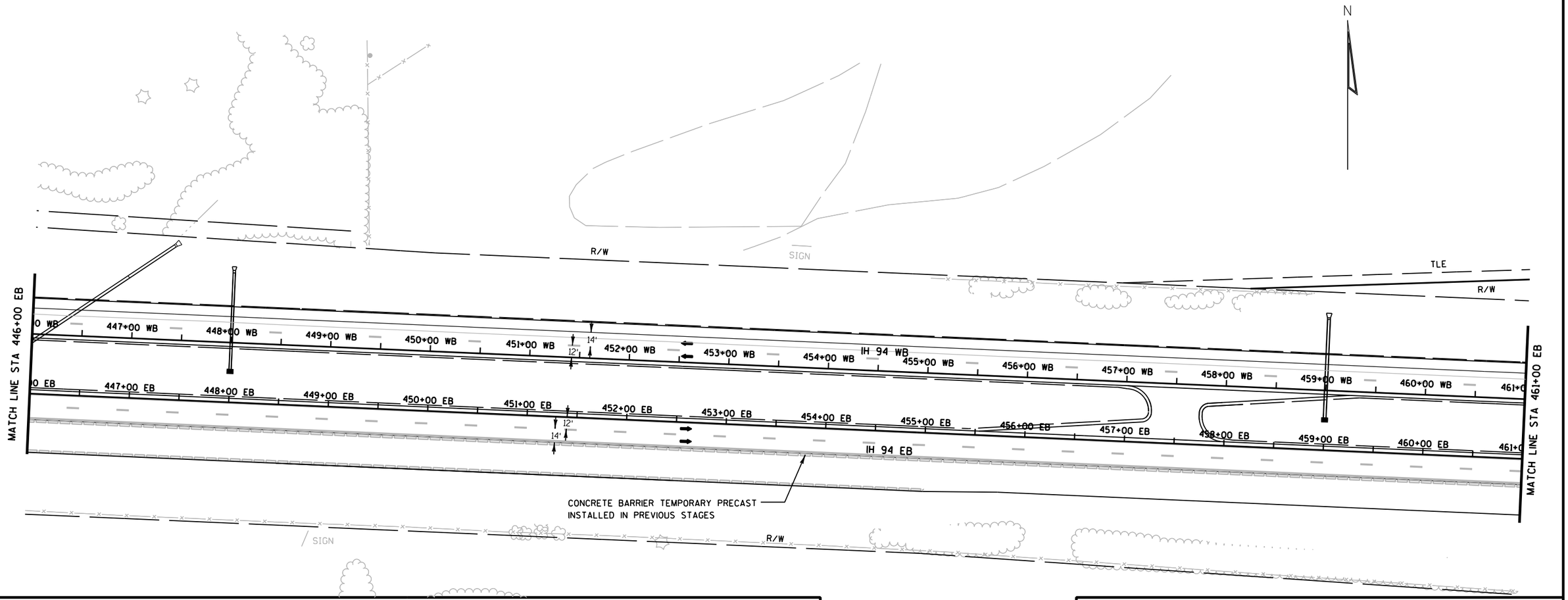
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
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4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3D (SHEET 3 OF 9)	SHEET 252	E

2



TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	~~~	TEMPORARY SHORING
↕	TYPE III BARRICADE WTH ATTACHED SIGN	▭▭▭	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▭▭▭	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
◪	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⇶	FLASHING ARROW BOARD	▨	ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▽	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

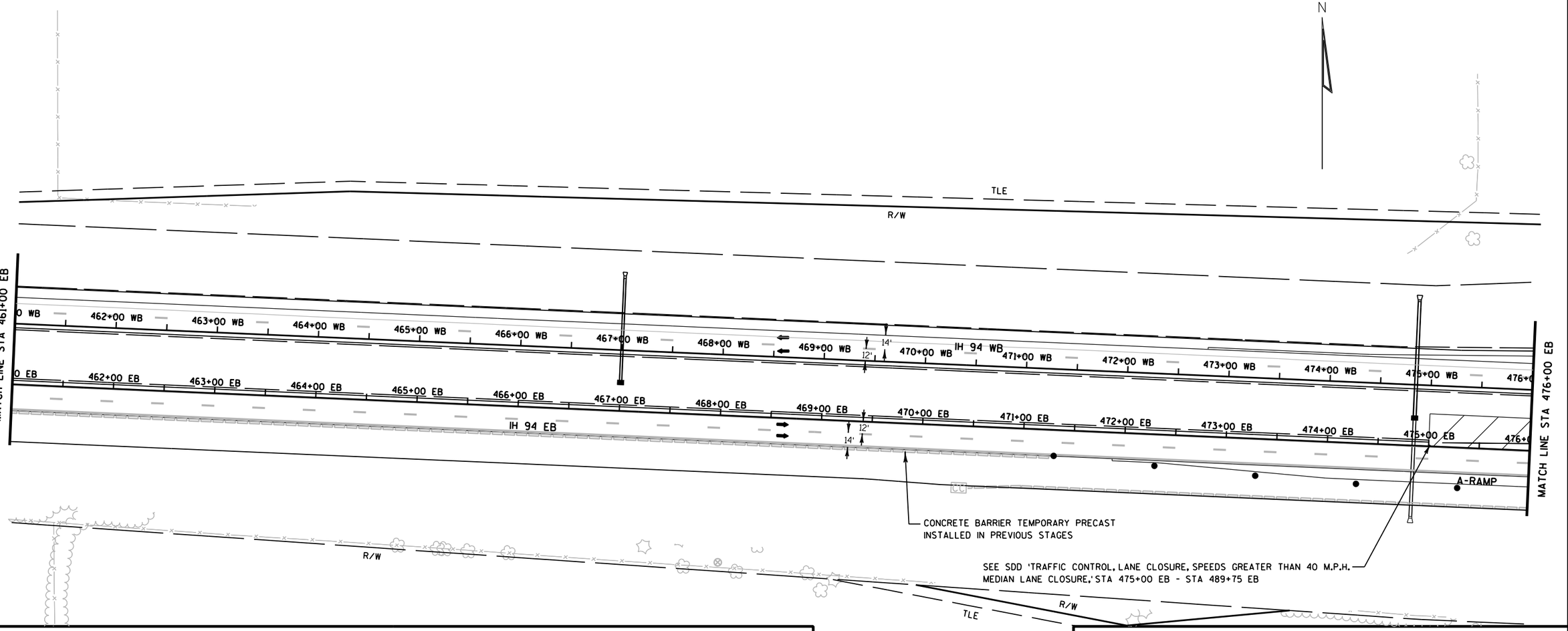
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3D (SHEET 4 OF 9)	SHEET 253	E

2



TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	~~~	TEMPORARY SHORING
	TYPE III BARRICADE WTH ATTACHED SIGN		CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM		CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		WORK AREA
	FLASHING ARROW BOARD		ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT		HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

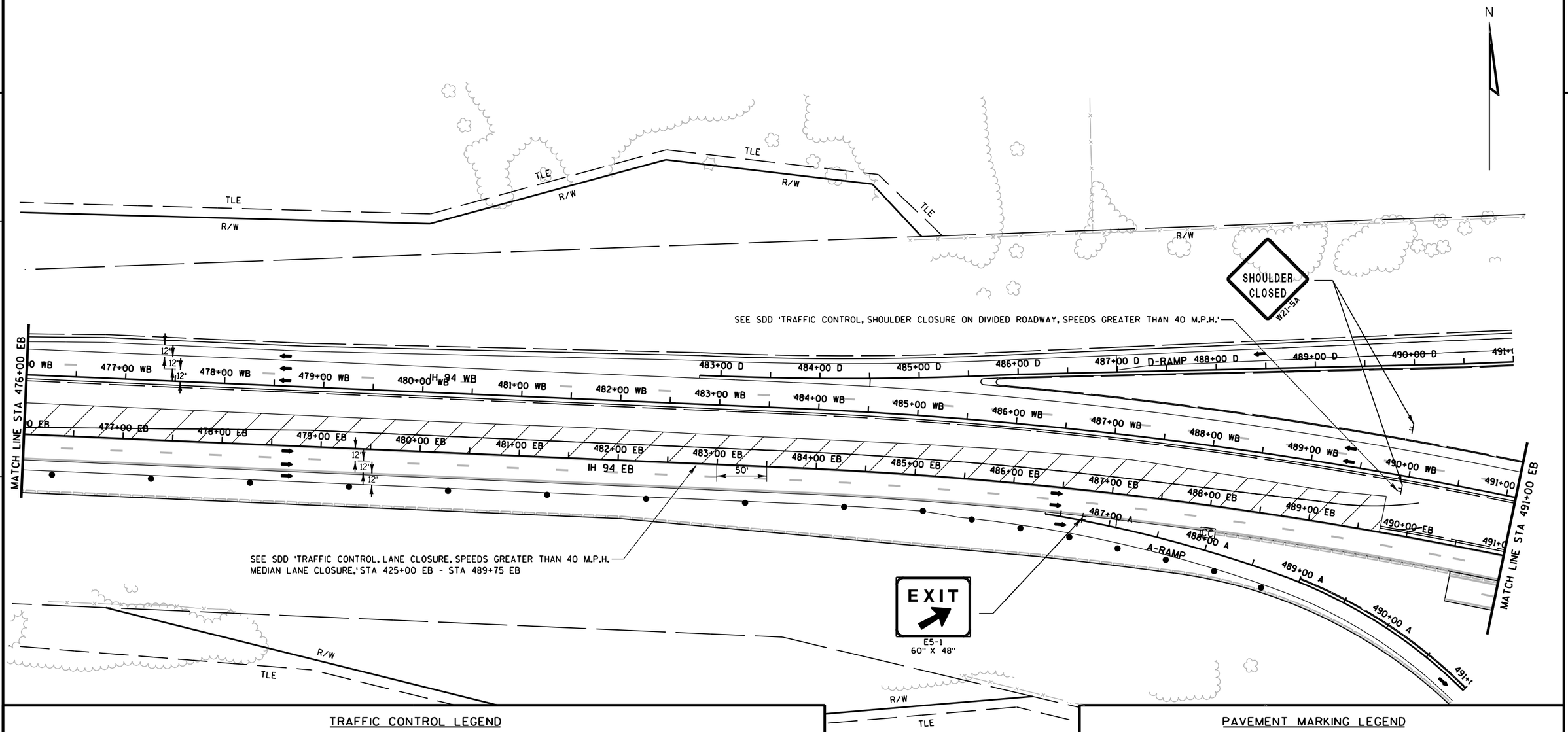
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 947	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3D (SHEET 5 OF 9)	SHEET 254	E

2



TRAFFIC CONTROL LEGEND

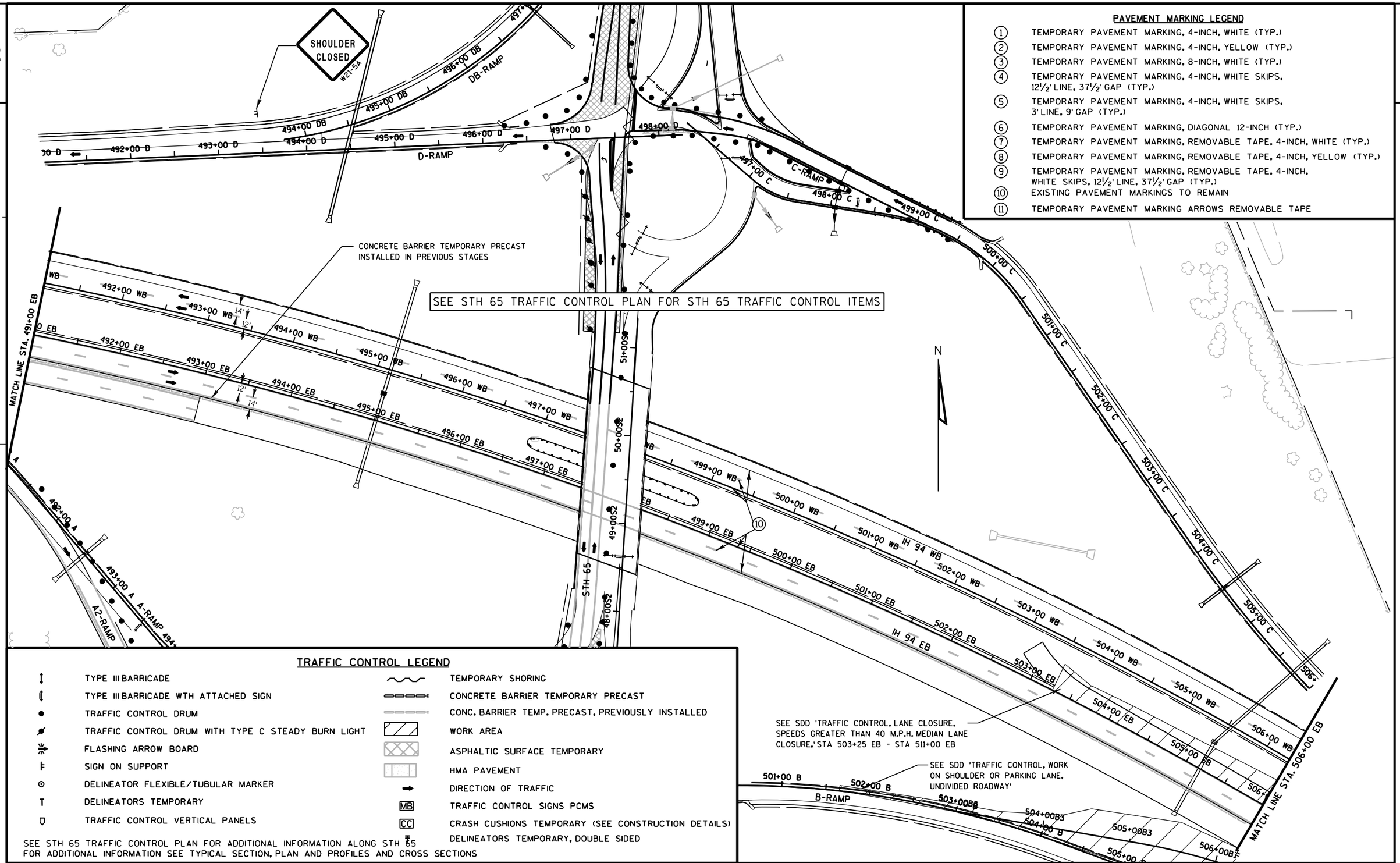
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3D (SHEET 6 OF 9)	SHEET 255	E



PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN
11. TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE

TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CC CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

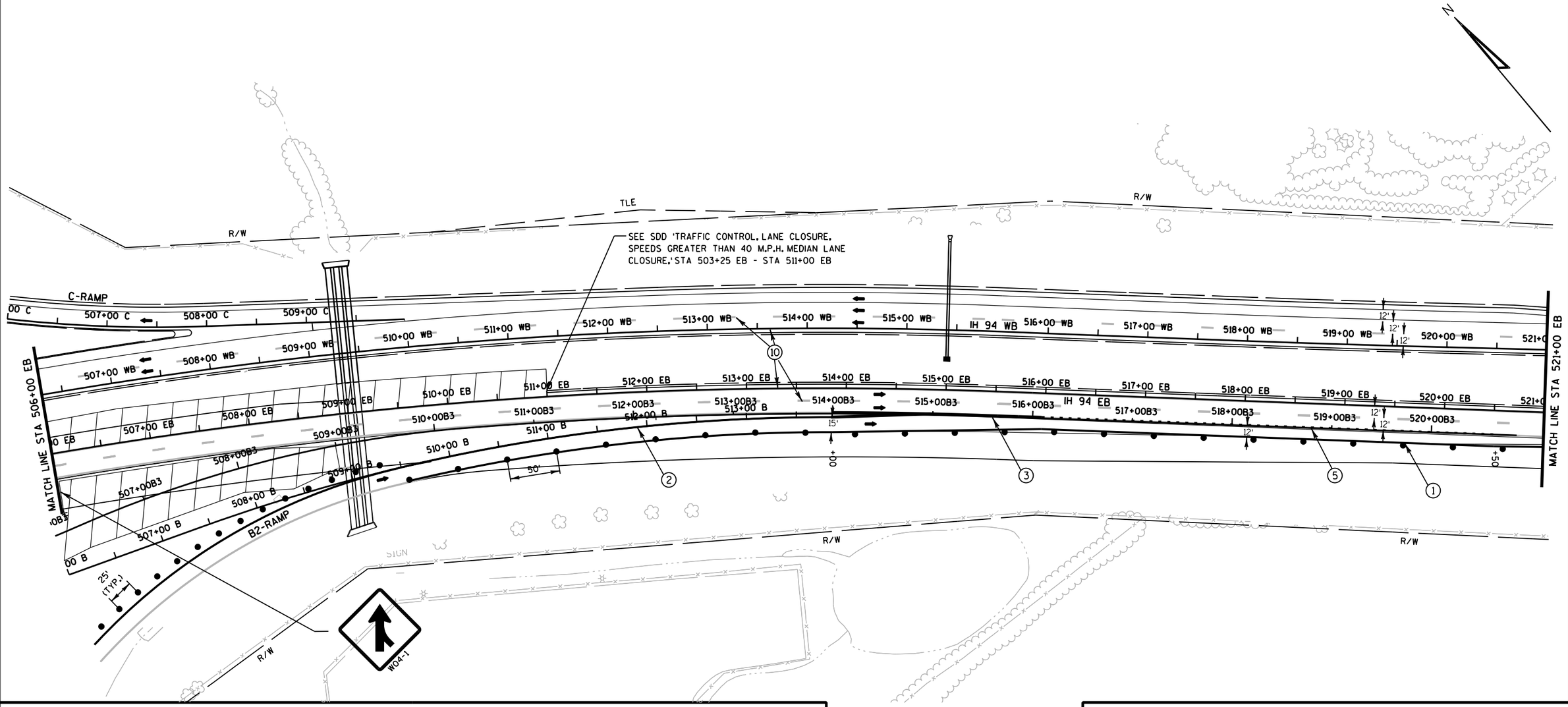
SEE STH 65 TRAFFIC CONTROL PLAN FOR ADDITIONAL INFORMATION ALONG STH 65
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3D (SHEET 7 OF 9)	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025147_tc_stage3D.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 42

2



TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	∿∿	TEMPORARY SHORING
↕	TYPE III BARRICADE WTH ATTACHED SIGN		CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM		CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		WORK AREA
	FLASHING ARROW BOARD		ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT		HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▽	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

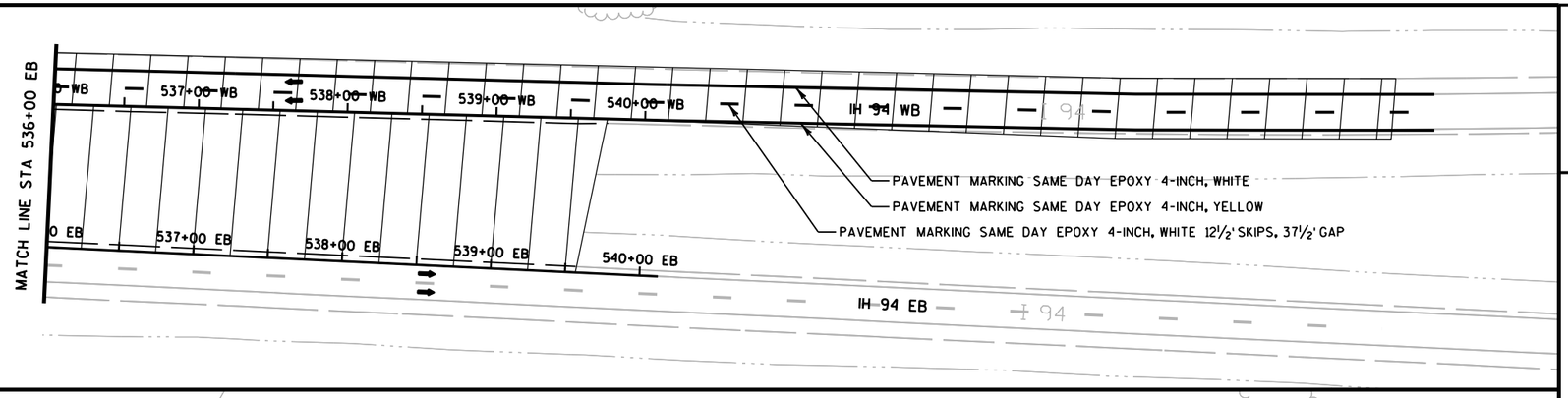
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

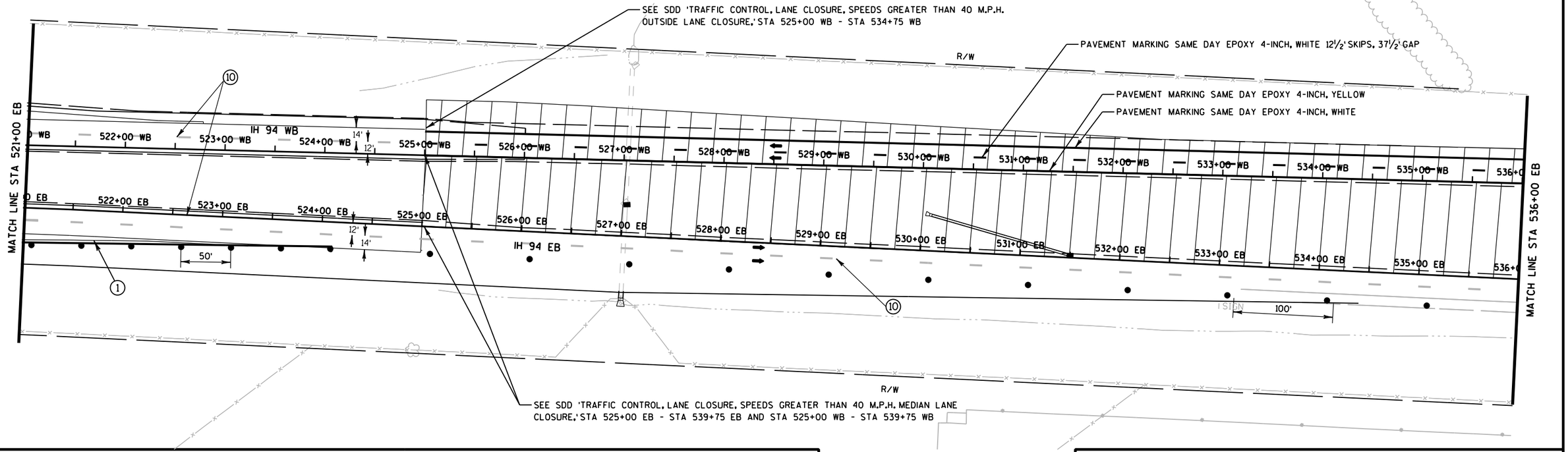
(1)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
(2)	TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
(3)	TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
(4)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(5)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
(6)	TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
(7)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
(8)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
(9)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(10)	EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3D (SHEET 8 OF 9)	SHEET 257	E

2



COMPLETE MEDIAN WORK WITH CONCURRENT EB & WB LANE CLOSURES



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CC CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3D (SHEET 9 OF 9)	SHEET 258	E

2

TRAFFIC

IH 94

IH 94 EB TRAFFIC TO REMAIN ON THE NEW EB MAINLINE.

IH 94 WB TRAFFIC TO REMAIN ON THE NEW WB MAINLINE.

IH 94/STH 65 EB EXIT RAMP TRAFFIC TO MOVE TO THE NEW EB EXIT A-RAMP.

IH 94/STH 65 EB ENTRANCE RAMP TRAFFIC TO MOVE TO THE STAGE 3D TEMPORARY ENTRANCE B3-RAMP.

IH 94/STH 65 WB EXIT RAMP TRAFFIC TO REMAIN ON THE NEW WB EXIT C-RAMP.

IH 94/STH 65 WB ENTRANCE RAMP TRAFFIC TO REMAIN ON THE NEW WB ENTRANCE D-RAMP.

STH 65

STH 65 TRAFFIC TO MOVE TO THE STAGE 2B-3C TEMPORARY WIDENING NORTH OF B-55-0249.
STH 65 TRAFFIC TO REMAIN ON THE STAGE 1A-2A TEMPORARY WIDENING SOUTH OF B-55-0249.

IH 94/STH 65 EB RAMP TRAFFIC TO MOVE TO THE STAGE 3D TEMPORARY RAMP INTERSECTION.

IH 94/STH 65 WB RAMP TRAFFIC TO MOVE TO THE STAGE 3D TEMPORARY RAMP INTERSECTION.

CONSTRUCTION

IH 94

SWITCH EB ENTRANCE RAMP TRAFFIC TO THE STAGE 3D EB TEMPORARY ENTRANCE B3-RAMP.

COMPLETE B-RAMP STA 505+00B - STA 511+00B

STH 65

SWITCH MAINLINE TRAFFIC TO THE STAGE 2B-3C MAINLINE AND WIDENING NORTH OF STRUCTURE B-55-0249.

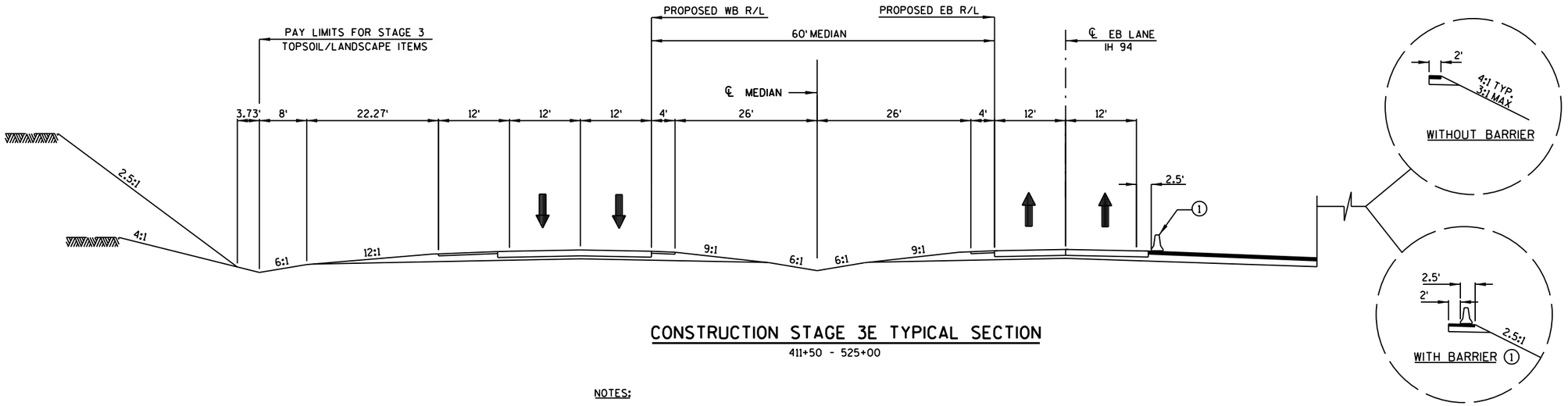
SWITCH EB RAMP TRAFFIC TO THE TEMPORARY INTERSECTION AT THE NEW RAMPS.

COMPLETE STAGE 3E MAINLINE STH 65 LT STA 56+30S - STA 64+00S

COMPLETE STAGE 3E MAINLINE STH 65 RT STA 42+40S - STA 43+85S

COMPLETE STAGE 3E D-RAMP BYPASS STA 498+50DB - STA 499+99DB

2



CONSTRUCTION STAGE 3E TYPICAL SECTION

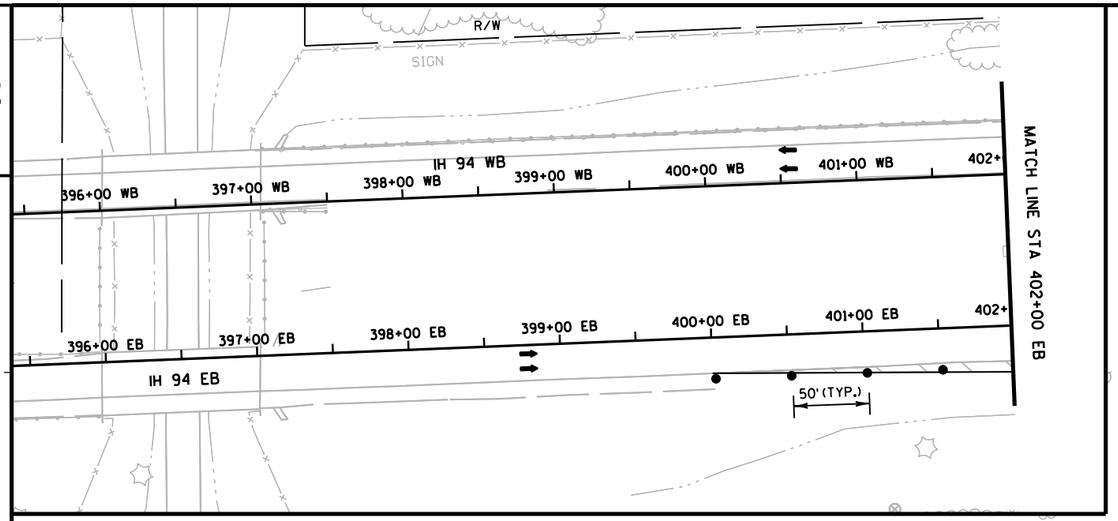
411+50 - 525+00

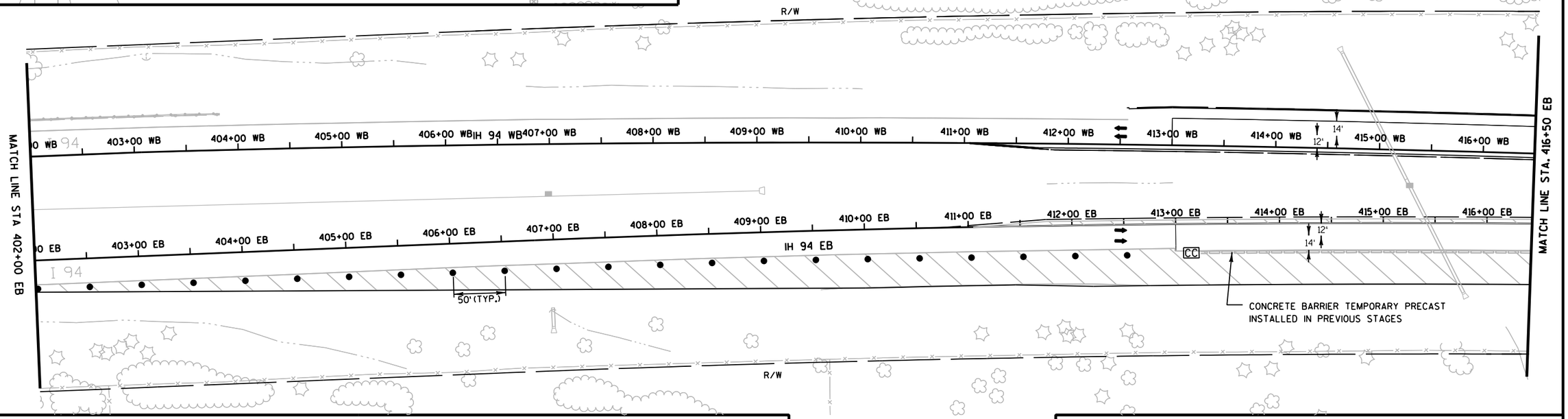
NOTES:

① ALL CONCRETE BARRIER TEMPORARY PRECAST TO BE PLACED AT LOCATIONS SHOWN IN TRAFFIC CONTROL STAGING PLAN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3E TYPICAL SECTIONS	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\tc_All_Stages.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :
WISDOT/CADDS SHEET 42





TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	∿∿∿	TEMPORARY SHORING
↕	TYPE III BARRICADE WTH ATTACHED SIGN	▭▭▭	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▭▭▭	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
✐	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⚡	FLASHING ARROW BOARD	▨	ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▯	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

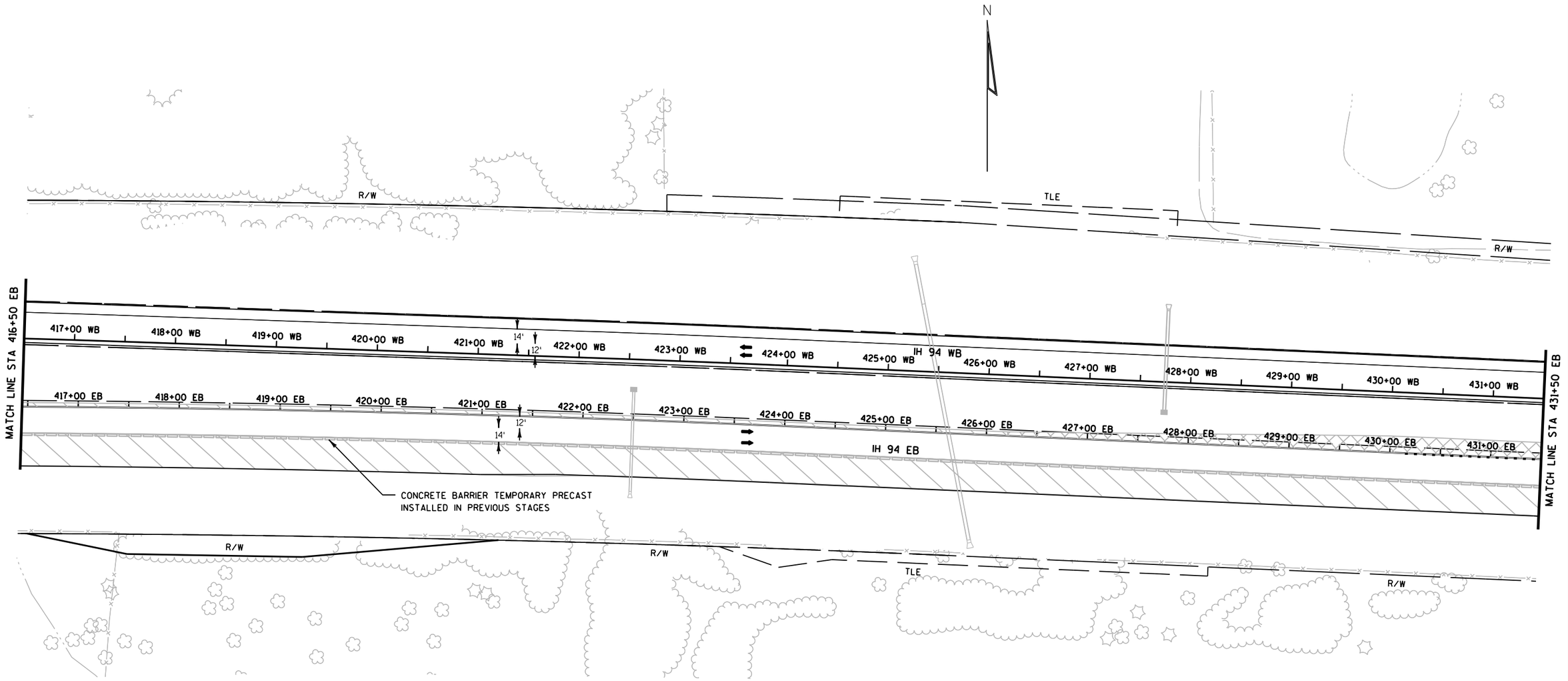
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3E (SHEET 1 OF 9)	SHEET 260	E

2



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

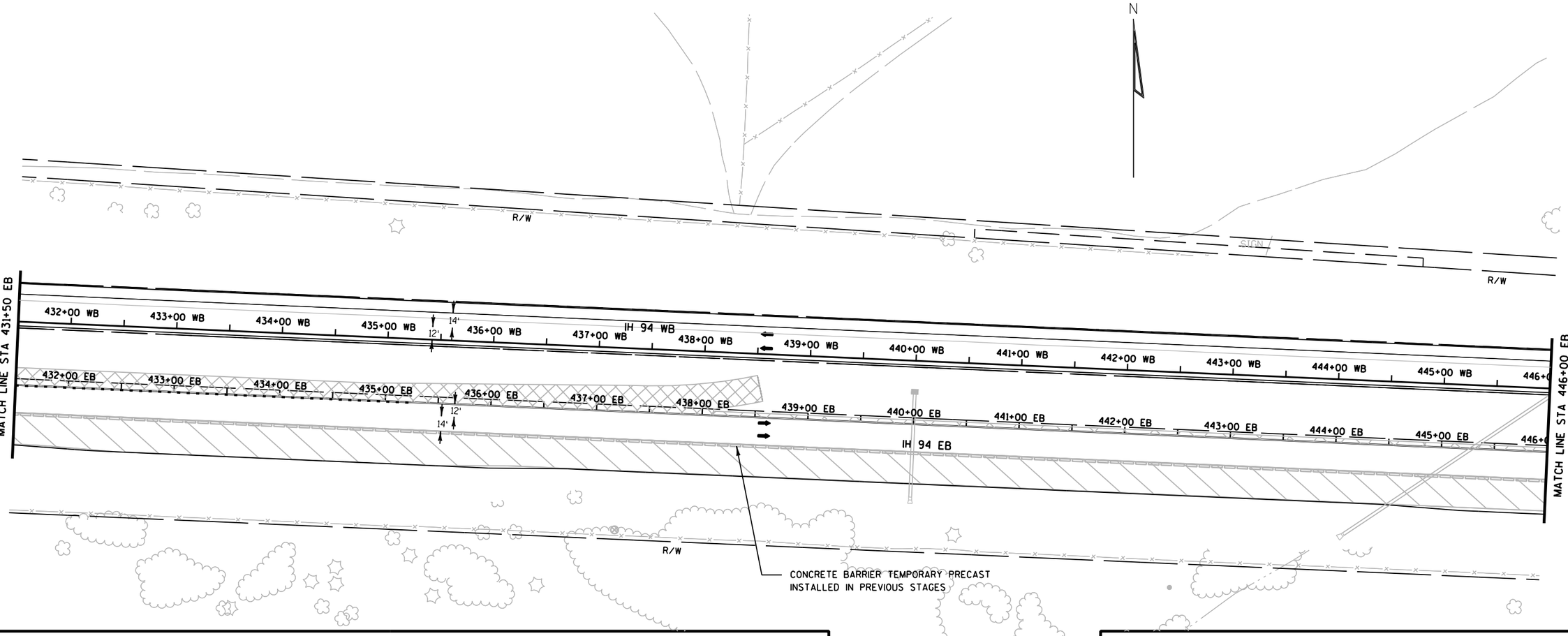
1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3E (SHEET 2 OF 9)	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025155_tc_stage3E.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 42

2



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

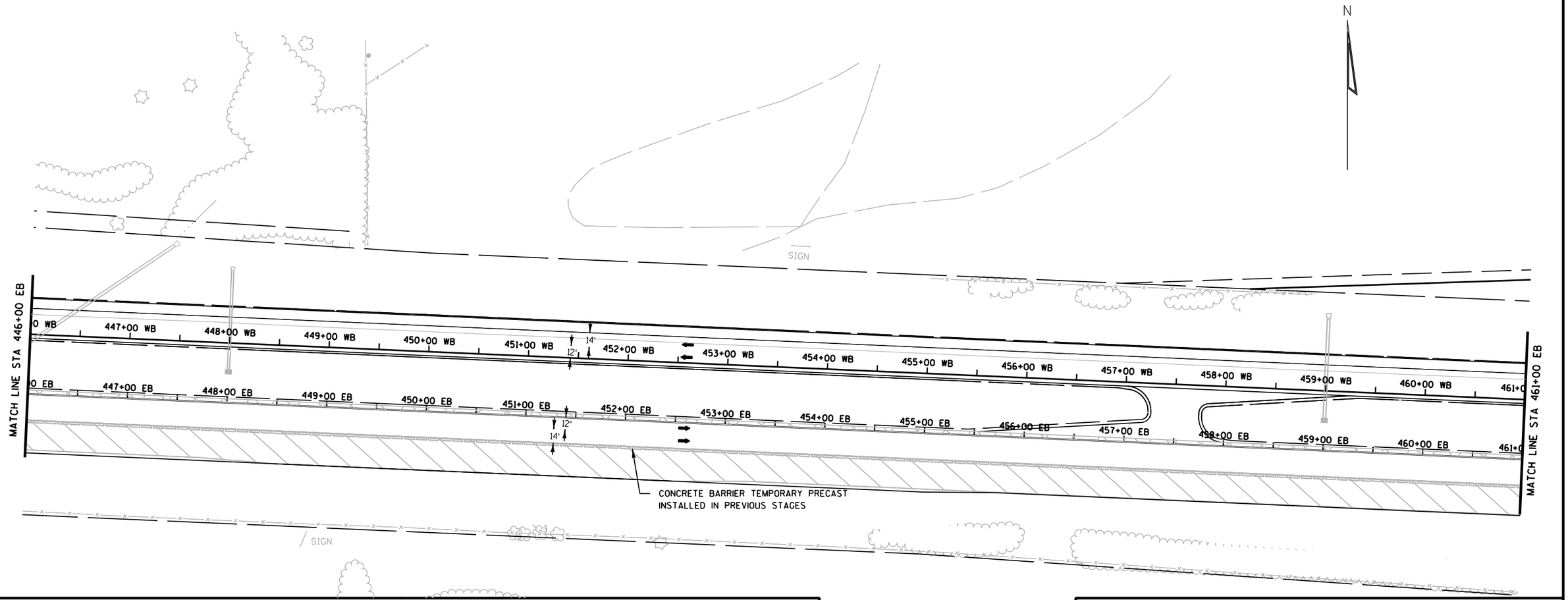
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3E (SHEET 3 OF 9)	SHEET 262	E

2



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CC CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

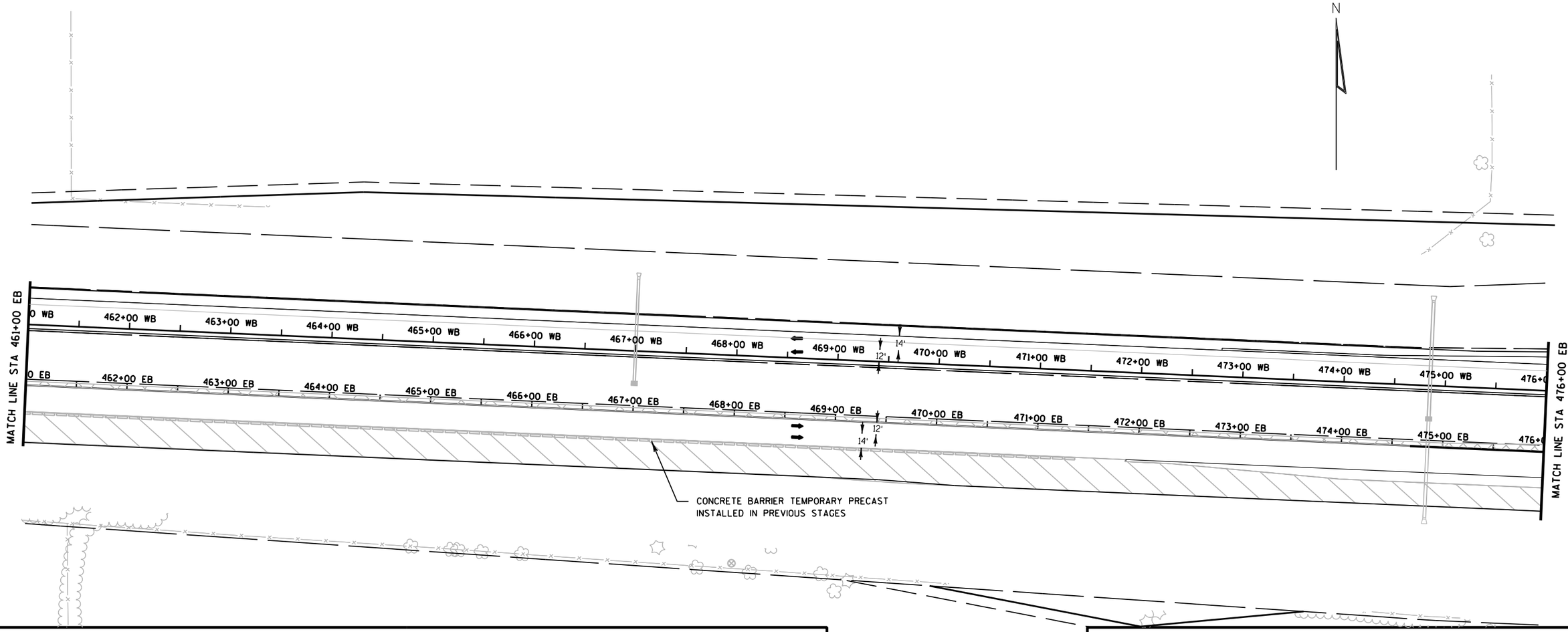
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3E (SHEET 4 OF 9)	SHEET 263	E

2



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

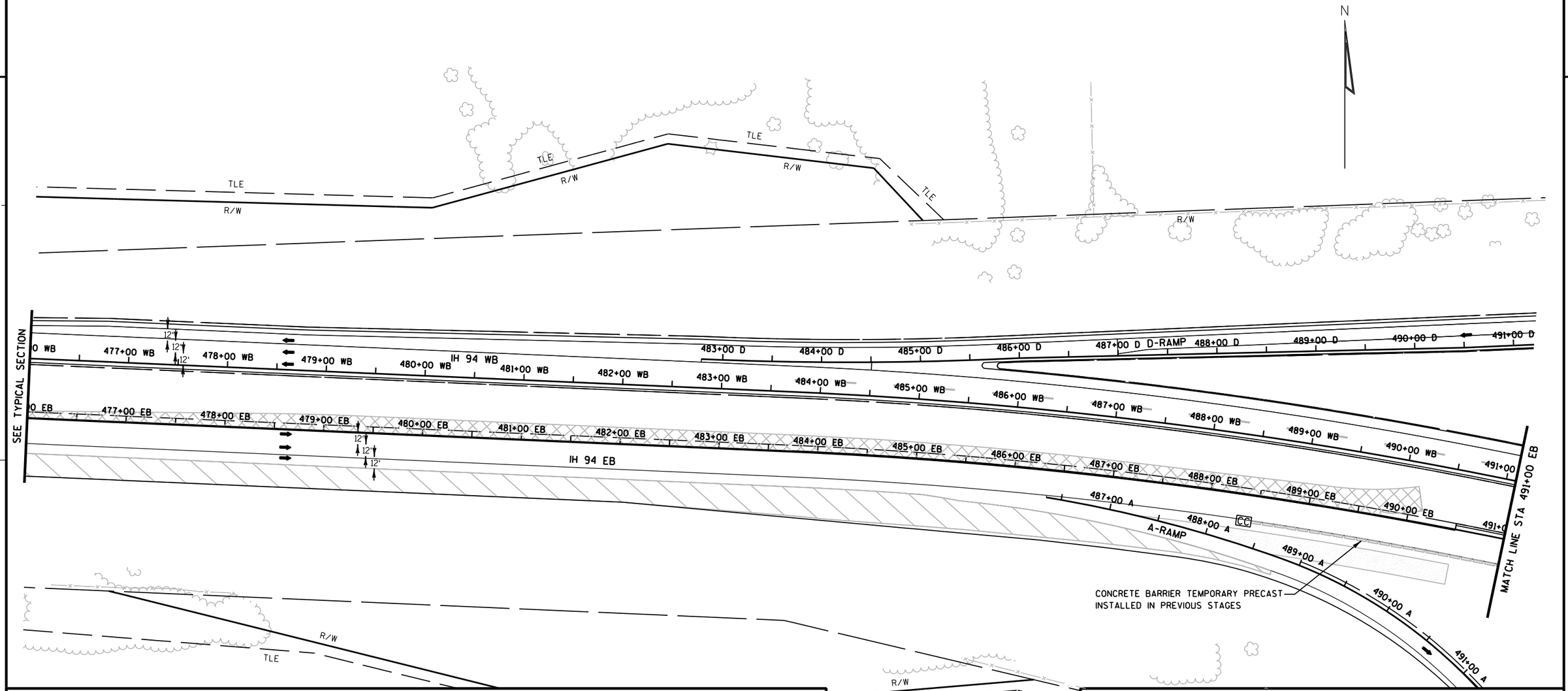
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 947	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3E	SHEET 264	E

2



TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	~~~	TEMPORARY SHORING
⇕	TYPE III BARRICADE WTH ATTACHED SIGN	▭▭▭	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▭▭▭	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
✐	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⇶	FLASHING ARROW BOARD	▨	ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▽	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3E (SHEET 1 OF 3)	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025159_tc_stage3E.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

TRAFFIC CONTROL LEGEND

‡	TYPE III BARRICADE	~~~	TEMPORARY SHORING
‡	TYPE III BARRICADE WTH ATTACHED SIGN	▭▭▭	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▭▭▭	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⇶	FLASHING ARROW BOARD	▨	ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▽	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

RAMP CLOSED
R11-2(MOD)
48" X 30"

CONCRETE BARRIER TEMPORARY PRECAST
INSTALLED IN PREVIOUS STAGES

SEE STH 65 TRAFFIC CONTROL PLAN FOR STH 65 TRAFFIC CONTROL ITEMS

MATCH LINE STA 491+00 EB

RAMP CLOSED
R11-2(MOD)
48" X 30"

W4-1
48" X 48"

CONCRETE BARRIER TEMPORARY PRECAST
INSTALLED IN PREVIOUS STAGES

MATCH LINE STA 506+00 EB

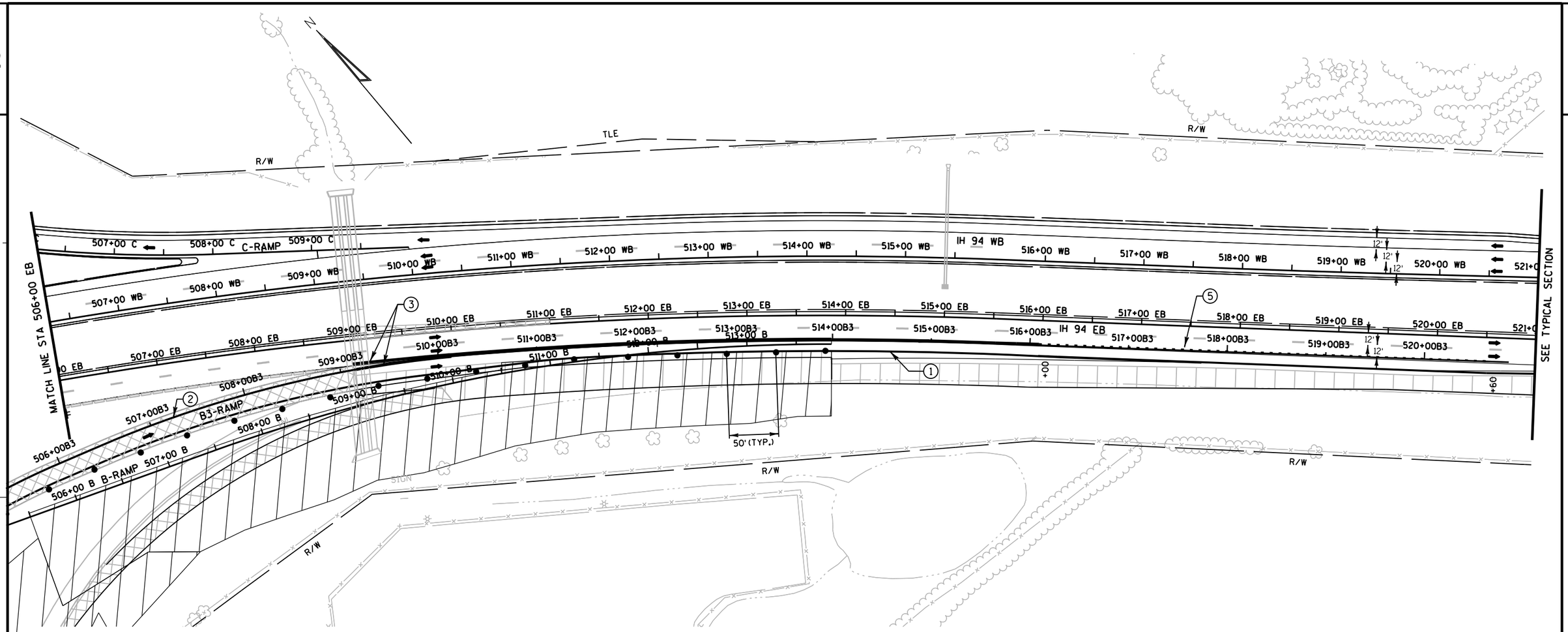
PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN
11. TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3E (SHEET 2 OF 3)	SHEET E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025160_tc_stage3E.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :
WISDOT/CADDS SHEET 42

2



TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	∿∿	TEMPORARY SHORING
↕	TYPE III BARRICADE WTH ATTACHED SIGN		CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM		CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		WORK AREA
	FLASHING ARROW BOARD		ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT		HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▽	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

(1)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
(2)	TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
(3)	TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
(4)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(5)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
(6)	TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
(7)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
(8)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
(9)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(10)	EXISTING PAVEMENT MARKINGS TO REMAIN

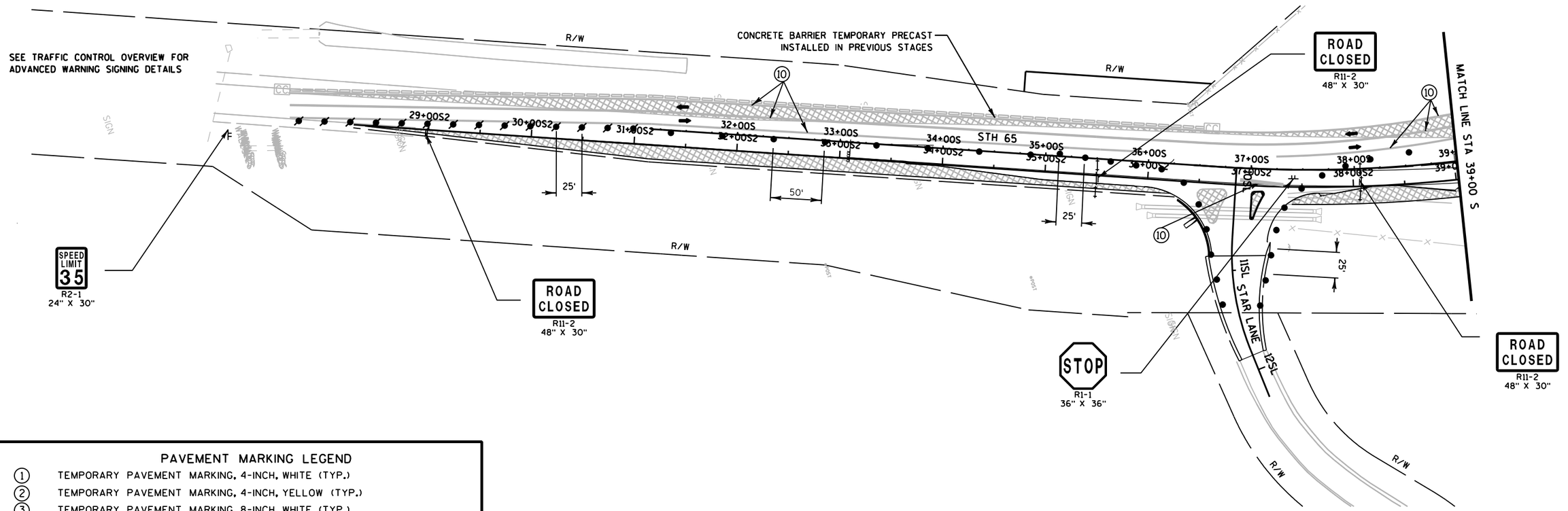
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3E (SHEET 3 OF 3)	SHEET 267	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025162_tc_stage3E.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

TRAFFIC CONTROL LEGEND

‡	TYPE III BARRICADE	∿∿	TEMPORARY SHORING
‡	TYPE III BARRICADE WTH ATTACHED SIGN	▭▭▭	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▭▭▭	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⇶	FLASHING ARROW BOARD	▨	ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT	▨	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▽	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

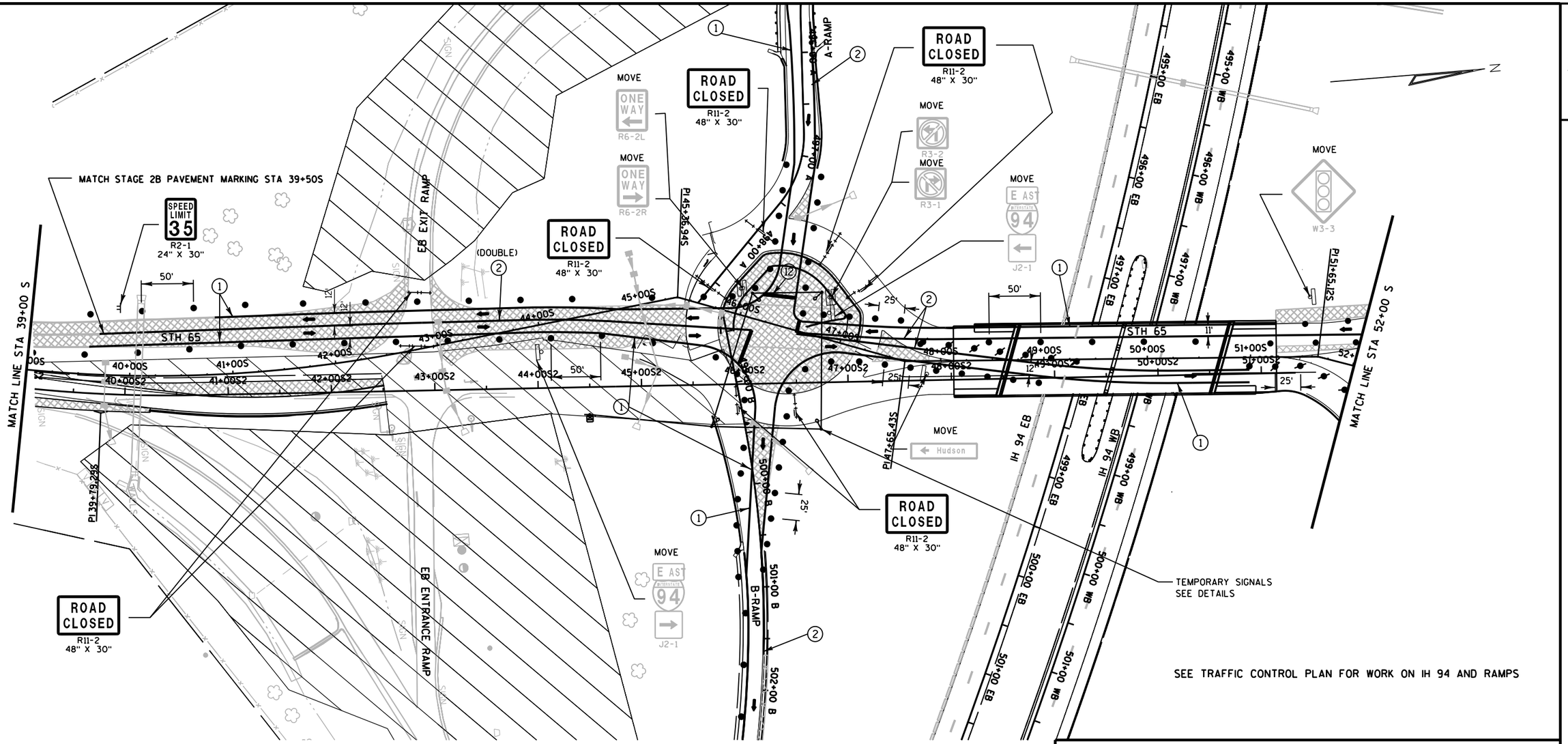


PAVEMENT MARKING LEGEND

①	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
②	TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
③	TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
④	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
⑤	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
⑥	TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
⑦	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
⑧	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
⑨	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
⑩	EXISTING PAVEMENT MARKINGS TO REMAIN
⑪	TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE
⑫	TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	STH 65 TRAFFIC CONTROL - STAGE 3E (SHEET 1 OF 3)	SHEET E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\65401_stage3E.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :
WISDOT/CADDS SHEET 42



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN
11. TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE
12. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH

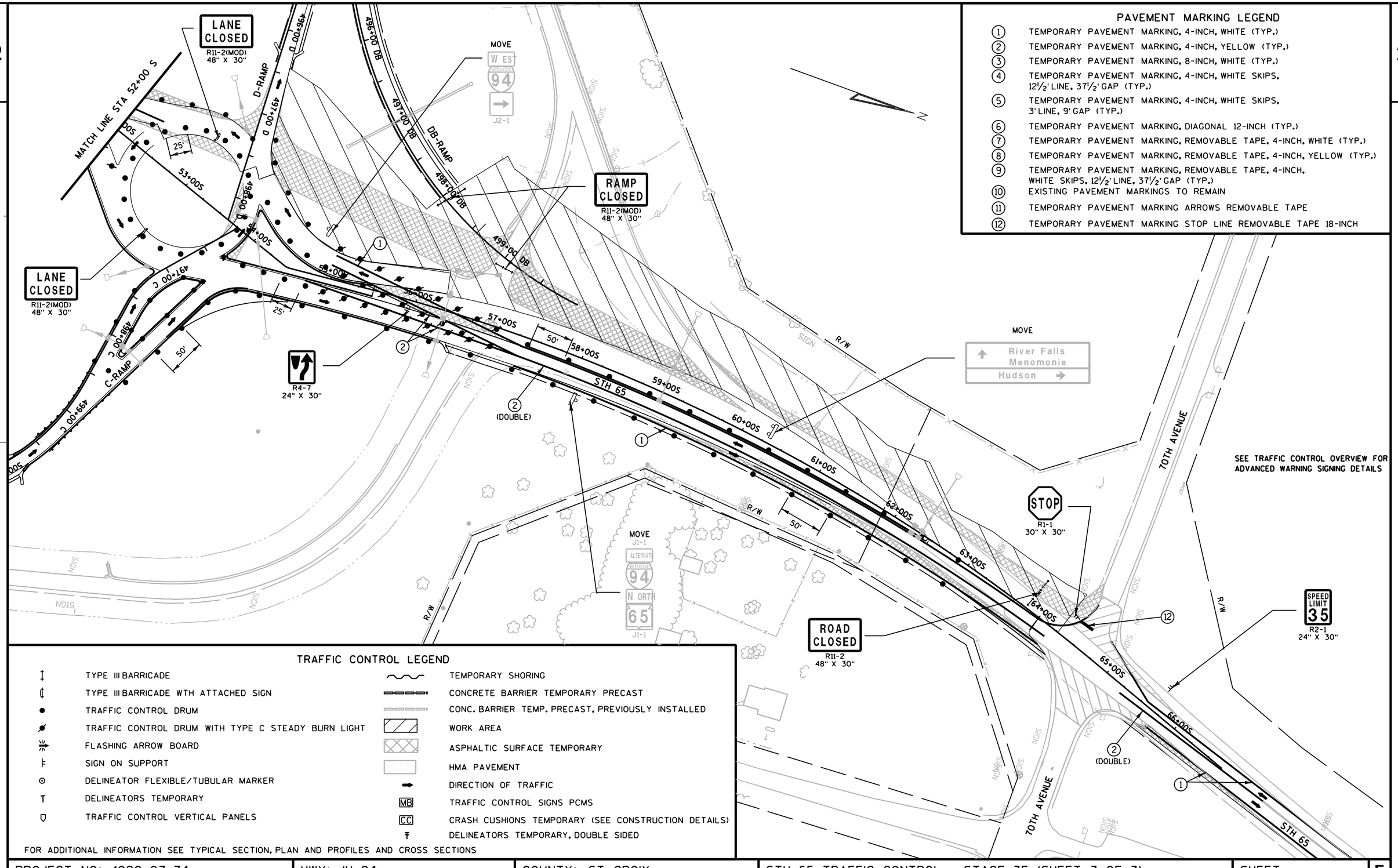
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	STH 65 TRAFFIC CONTROL - STAGE 3E (SHEET 2 OF 3)	SHEET E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\65402_stage3E.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :
WISDOT/CADDS SHEET 42

2

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN
11. TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE
12. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	STH 65 TRAFFIC CONTROL - STAGE 3E (SHEET 3 OF 3)	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\65403_stage3E.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 42

2

TRAFFIC

IH 94

IH 94 EB TRAFFIC TO REMAIN ON THE NEW EB MAINLINE.

IH 94 WB TRAFFIC TO REMAIN ON THE NEW WB MAINLINE.

IH 94/STH 65 EB EXIT RAMP TRAFFIC TO REMAIN ON THE NEW EB EXIT A-RAMP

IH 94/STH 65 EB ENTRANCE RAMP TRAFFIC TO MOVE TO THE NEW EB ENTRANCE B-RAMP

IH 94/STH 65 WB EXIT RAMP TRAFFIC TO REMAIN ON THE NEW EXIT C-RAMP.

IH 94/STH 65 WB ENTRANCE RAMP TRAFFIC TO REMAIN ON THE NEW WB ENTRANCE D-RAMP.

STH 65

STH 65 TRAFFIC TO REMAIN ON THE STAGE 2B-3C TEMPORARY WIDENING NORTH OF B-55-0249.

STH 65 TRAFFIC TO MOVE TO THE STAGE 2B-3E TEMPORARY WIDENING SOUTH OF B-55-0249.

IH 94/STH 65 EB RAMP TRAFFIC TO MOVE TO THE STAGE 3E TEMPORARY RAMP INTERSECTION.

IH 94/STH 65 WB RAMP TRAFFIC TO REMAIN ON THE STAGE 3D TEMPORARY RAMP INTERSECTION.

CONSTRUCTION

IH 94

SWITCH EB ENTRANCE RAMP TRAFFIC TO THE NEW EB ENTRANCE B-RAMP.

REMOVE STAGE 2A/2B MAINLINE WIDENING
IH 94 EB RT STA 400+00EB - STA 487+00EB, STA 488+00EB - STA 509+00EB, AND STA 513+85EB - STA 534+50EB

REMOVE STAGE 2A TEMPORARY EB EXIT RAMP STA 487+00A - STA 495+35A

REMOVE STAGE 3D TEMPORARY EB ENTRANCE RAMP STA 501+65B - STA 509+00B

COMPLETE MAINLINE SHOULDERS IH 94 EB RT STA 400+00EB - STA 487+00EB, STA 488+00EB - STA 509+00EB, AND STA 513+85EB - STA 534+50EB
COMPLETE A-RAMP SHOULDERS STA 487+00A - STA 495+35A
COMPLETE B-RAMP SHOULDERS STA 501+65B - STA 509+00B

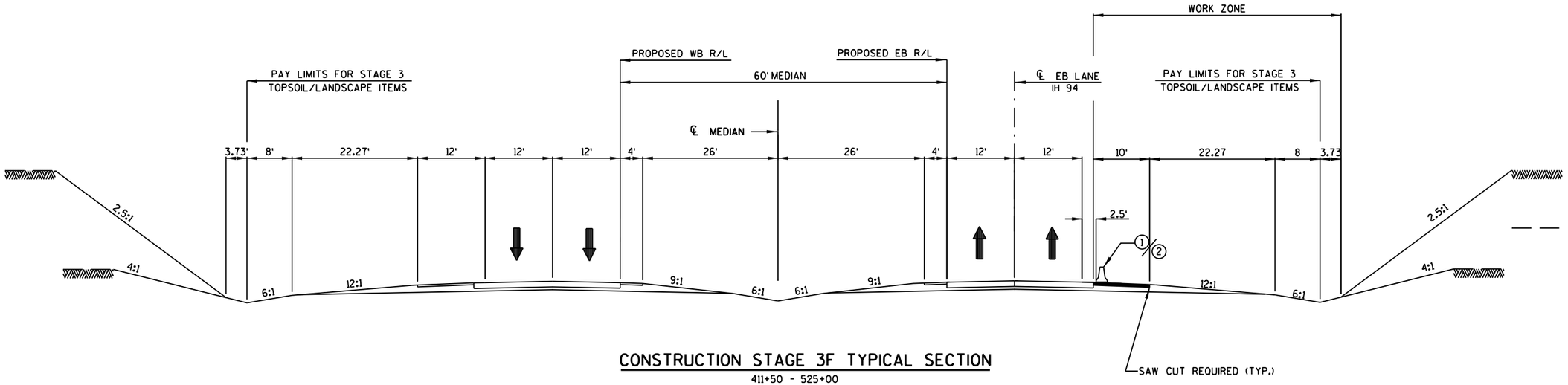
COMPLETE PAVEMENT RESURFACING STA 525+00EB - STA 545+00EB

STH 65

SWITCH MAINLINE TRAFFIC TO THE STAGE 2B-3E MAINLINE AND WIDENING SOUTH OF STRUCTURE B-55-0249.

COMPLETE STAGE 3F MAINLINE STH 65 LT STA 33+10S - STA 45+50S

2



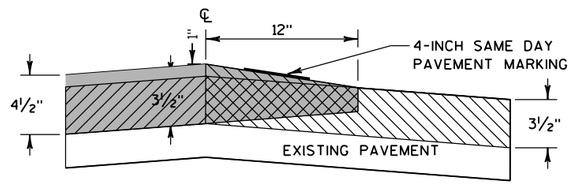
CONSTRUCTION STAGE 3F TYPICAL SECTION

411+50 - 525+00

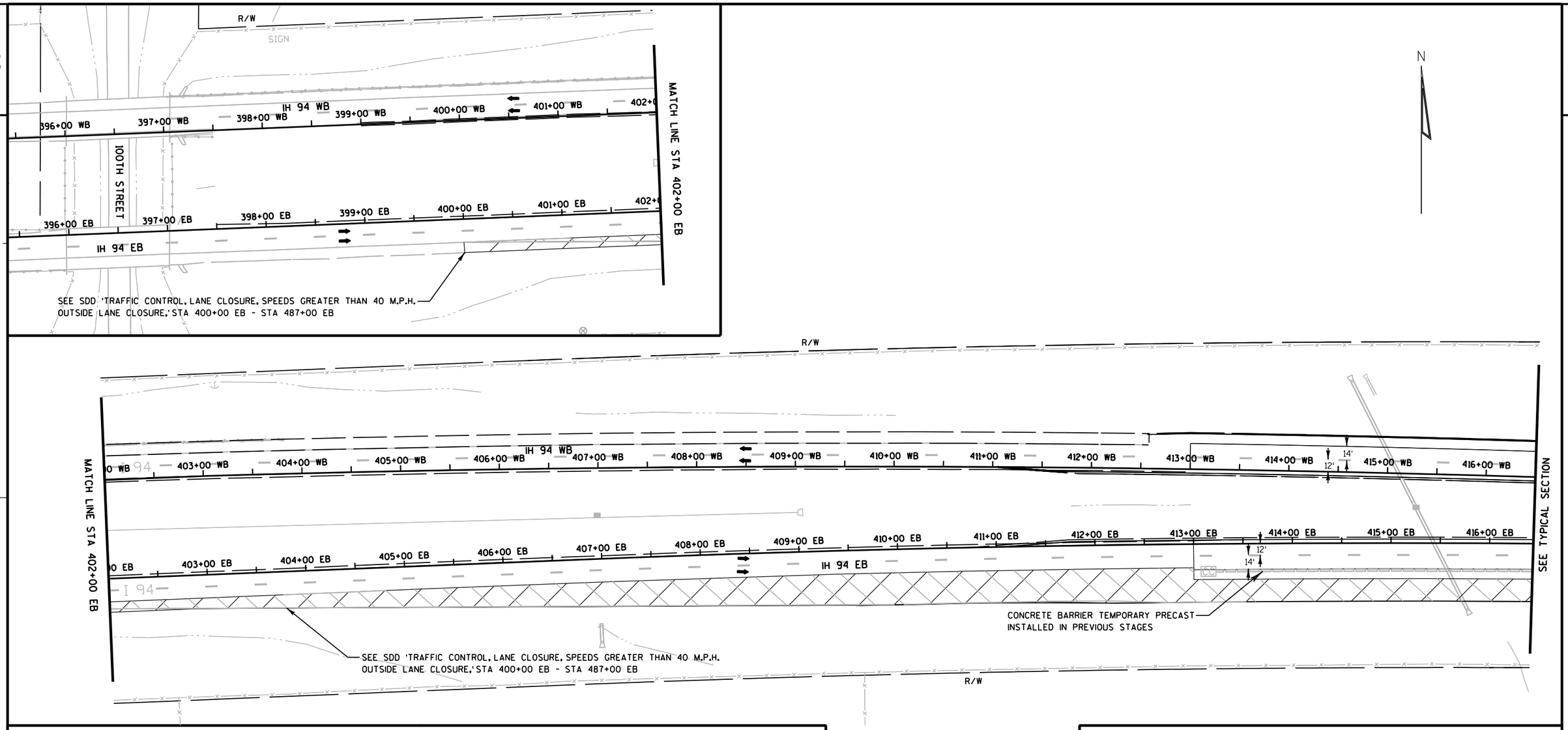
NOTES:

1. ALL CONCRETE BARRIER TEMPORARY PRECAST TO BE PLACED AT LOCATIONS SHOWN IN TRAFFIC CONTROL STAGING PLAN
2. ALL TRAFFIC CONTROL DRUMS TO BE PLACED AS SHOWN IN TRAFFIC CONTROL STAGING PLAN

RESURFACE CROWN JOINT



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3F TYPICAL SECTIONS	SHEET 271	E



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

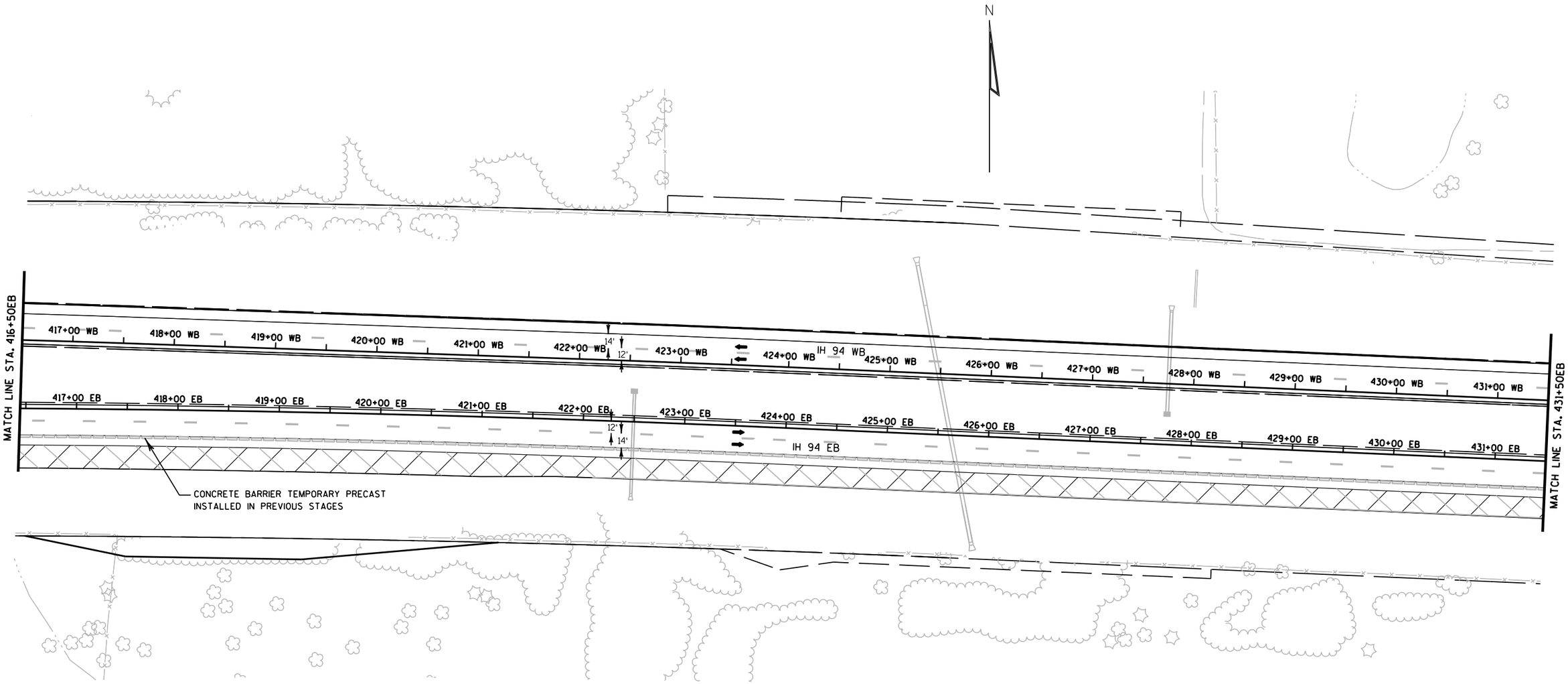
PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3F (SHEET 1 OF 6)	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025167_tc_stage3F.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :
WISDOT/CADDS SHEET 42

2



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CC CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

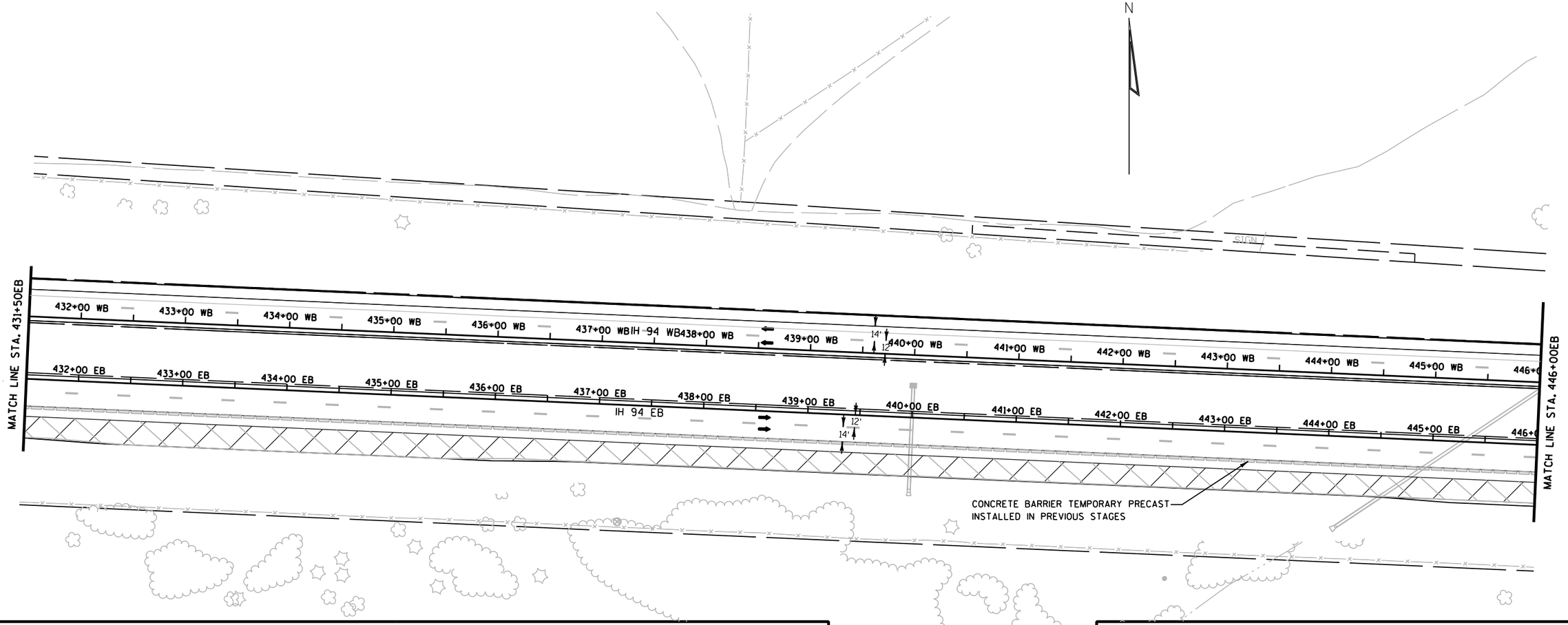
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3F	SHEET 273	E

2



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

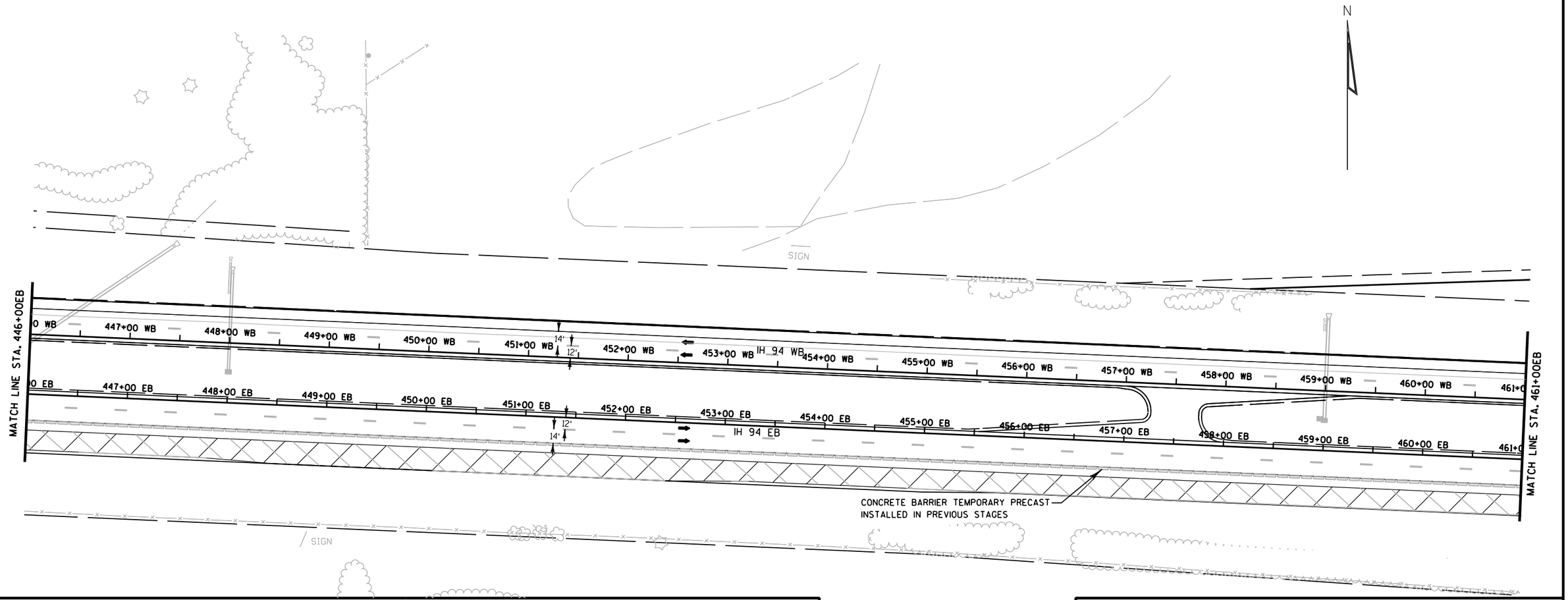
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3F	SHEET 274	E

2



TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	~~~	TEMPORARY SHORING
↕	TYPE III BARRICADE WTH ATTACHED SIGN		CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM		CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		WORK AREA
	FLASHING ARROW BOARD		ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT		HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
⊽	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

(1)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
(2)	TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
(3)	TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
(4)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(5)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
(6)	TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
(7)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
(8)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
(9)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(10)	EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3F	SHEET 275	E

2

2

N

TLE

R/W

SEE TYPICAL SECTION

462+00 WB 463+00 WB 464+00 WB 465+00 WB 466+00 WB 467+00 WB IH 94 WB 468+00 WB 469+00 WB 470+00 WB 471+00 WB 472+00 WB 473+00 WB 474+00 WB 475+00 WB 476+00 WB

462+00 EB 463+00 EB 464+00 EB 465+00 EB 466+00 EB 467+00 EB IH 94 EB 468+00 EB 469+00 EB 470+00 EB 471+00 EB 472+00 EB 473+00 EB 474+00 EB 475+00 EB 476+00 EB

14'
12'
12'

MATCH LINE STA 476+00 EB

SEE SDD 'TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.'
SEE SDD 'TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE'
OUTSIDE LANE CLOSURE STA 471+00 EB - STA 550+00 EB

CONCRETE BARRIER TEMPORARY PRECAST
INSTALLED IN PREVIOUS STAGES

EB LANE CLOSURE REQUIRED
USE END OF LANE CLOSURE TAPER AT STA 471+00 EB
SEE SDD 'TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE'
SEE SDD 'TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.'

R/W

TLE

R/W

R/W

TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

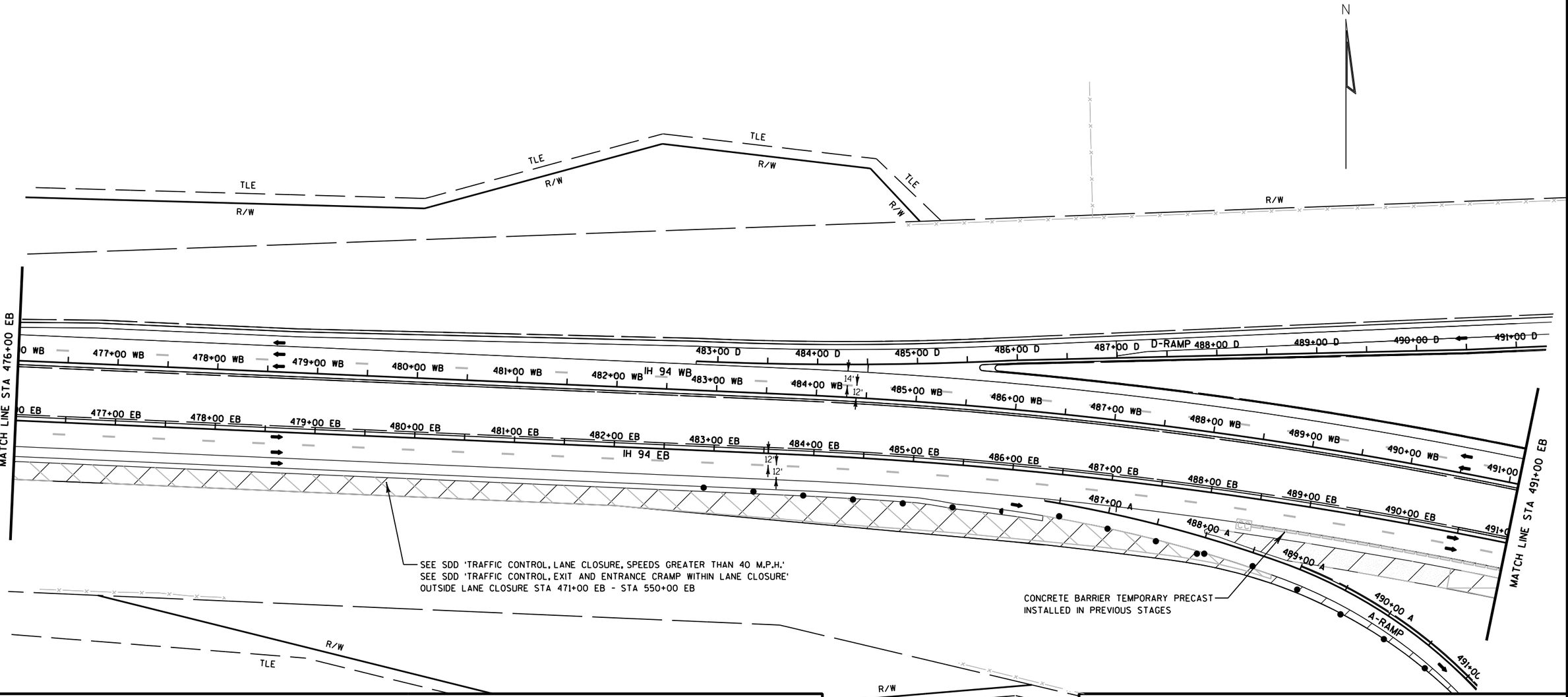
1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3F (SHEET 2 OF 6)	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025171_tc_stage3F.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 42

2



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3F (SHEET 3 OF 6)	SHEET 277	E

TRAFFIC CONTROL LEGEND

‡	TYPE III BARRICADE	~~~	TEMPORARY SHORING
‡	TYPE III BARRICADE WTH ATTACHED SIGN	▭▭▭	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▭▭▭	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⇶	FLASHING ARROW BOARD	▨	ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▽	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

SEE STH 65 TRAFFIC CONTROL PLAN FOR STH 65 TRAFFIC CONTROL ITEMS

MATCH LINE STA 491+00 EB

CONCRETE BARRIER TEMPORARY PRECAST
INSTALLED IN PREVIOUS STAGES

SEE SDD 'TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.'
SEE SDD 'TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE OUTSIDE LANE CLOSURE,' STA 471+00 EB - STA 550+00 EB

MATCH LINE STA 506+00 EB

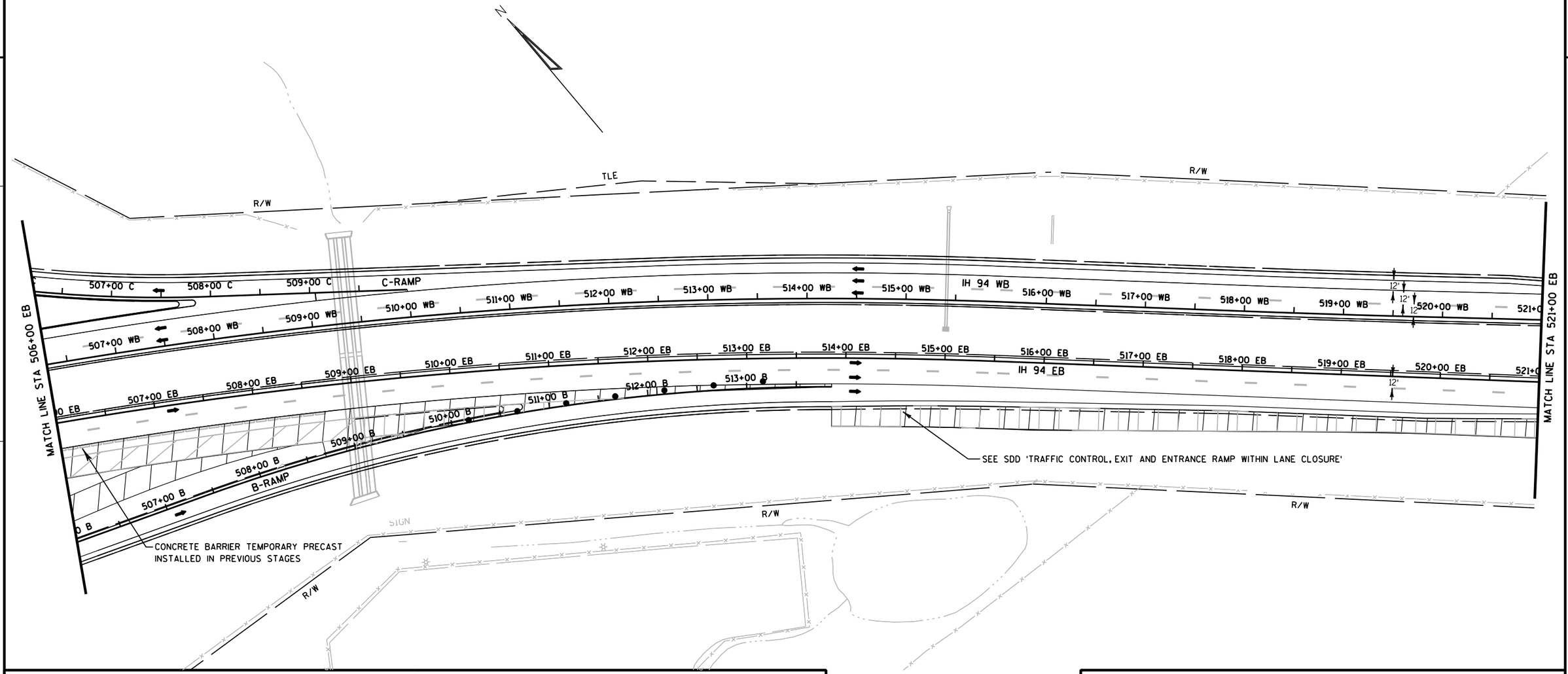
PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN
11. TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3F (SHEET 4 OF 6)	SHEET E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025173_tc_stage3F.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :
WISDOT/CADDS SHEET 42

2



TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	∿∿∿	TEMPORARY SHORING
↕	TYPE III BARRICADE WTH ATTACHED SIGN	▭▭▭	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▭▭▭	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
✐	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⇶	FLASHING ARROW BOARD	▨	ASPHALTIC SURFACE TEMPORARY
⊦	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▽	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

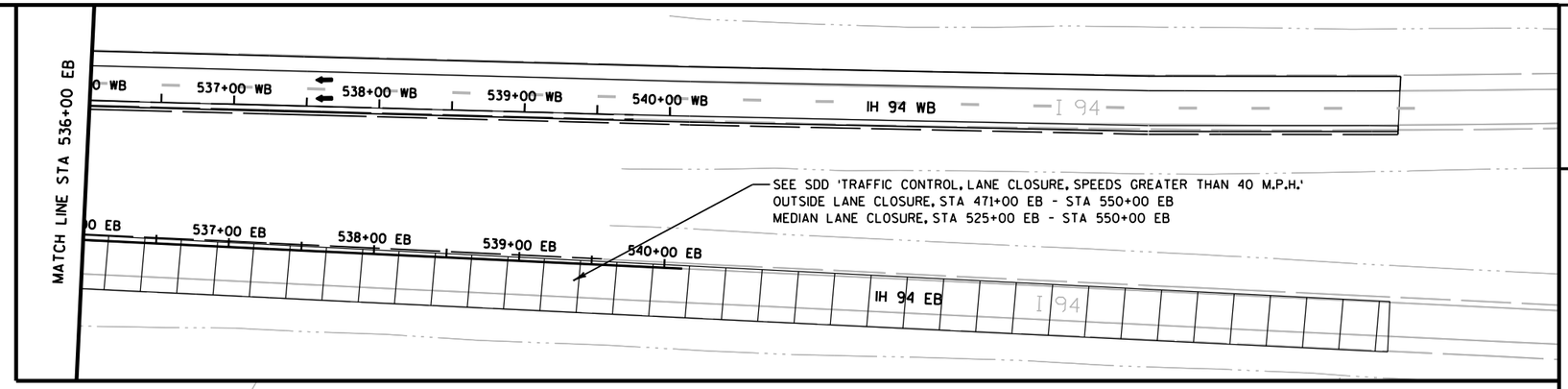
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

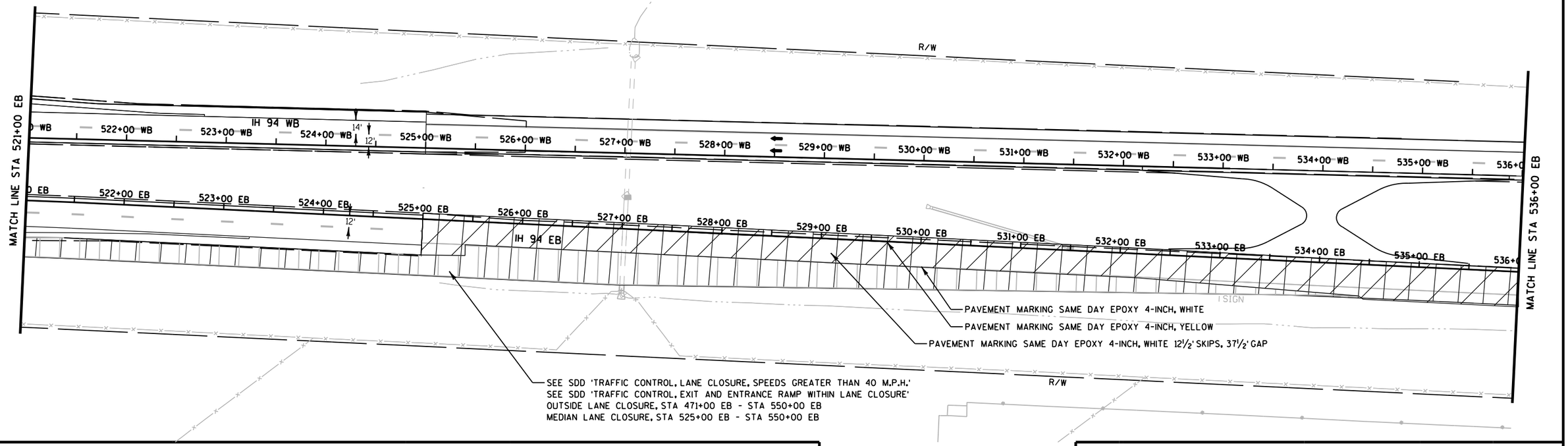
PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3F (SHEET 5 OF 6)	SHEET 279	E

2





TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING SAME DAY EPOXY 4-INCH, WHITE
2. PAVEMENT MARKING SAME DAY EPOXY 4-INCH, YELLOW
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3F (SHEET 6 OF 6)	SHEET 280	E

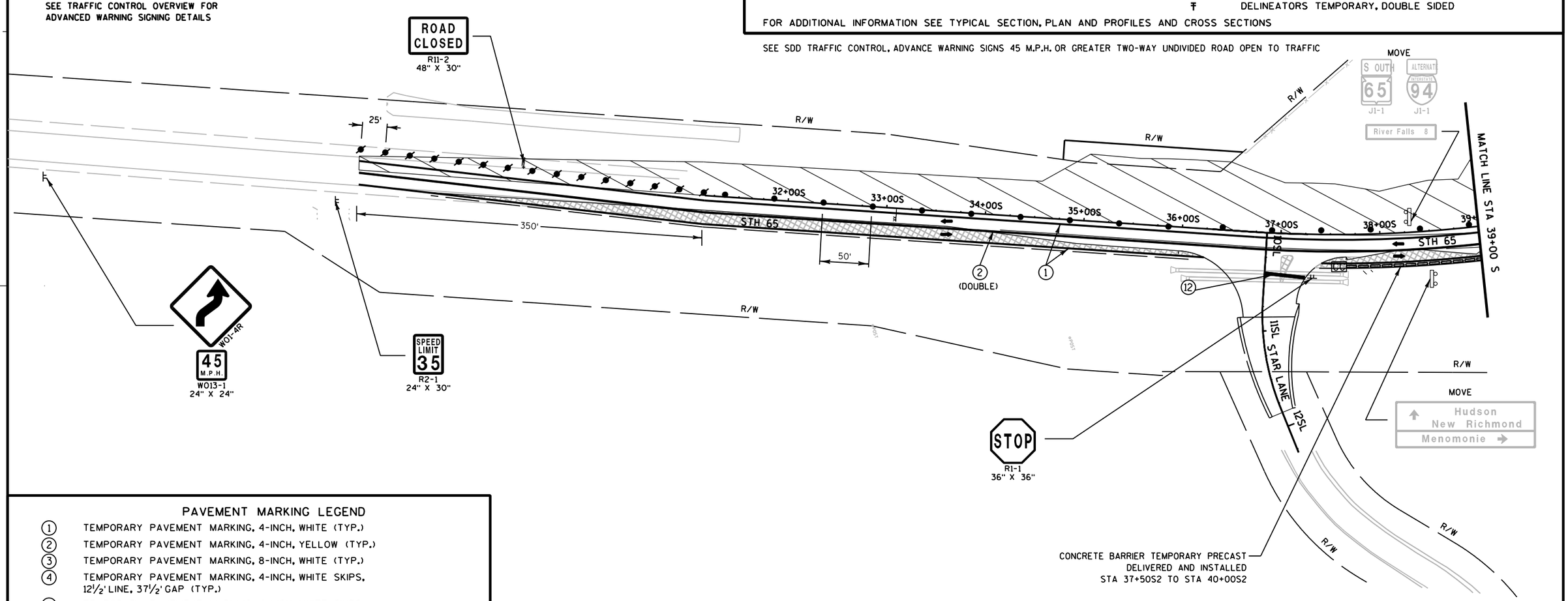
TRAFFIC CONTROL LEGEND

‡	TYPE III BARRICADE	~~~	TEMPORARY SHORING
‡	TYPE III BARRICADE WTH ATTACHED SIGN	▭▭▭	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▭▭▭	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⇉	FLASHING ARROW BOARD	▨	ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT	▨	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▽	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

SEE TRAFFIC CONTROL OVERVIEW FOR ADVANCED WARNING SIGNING DETAILS

SEE SDD TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

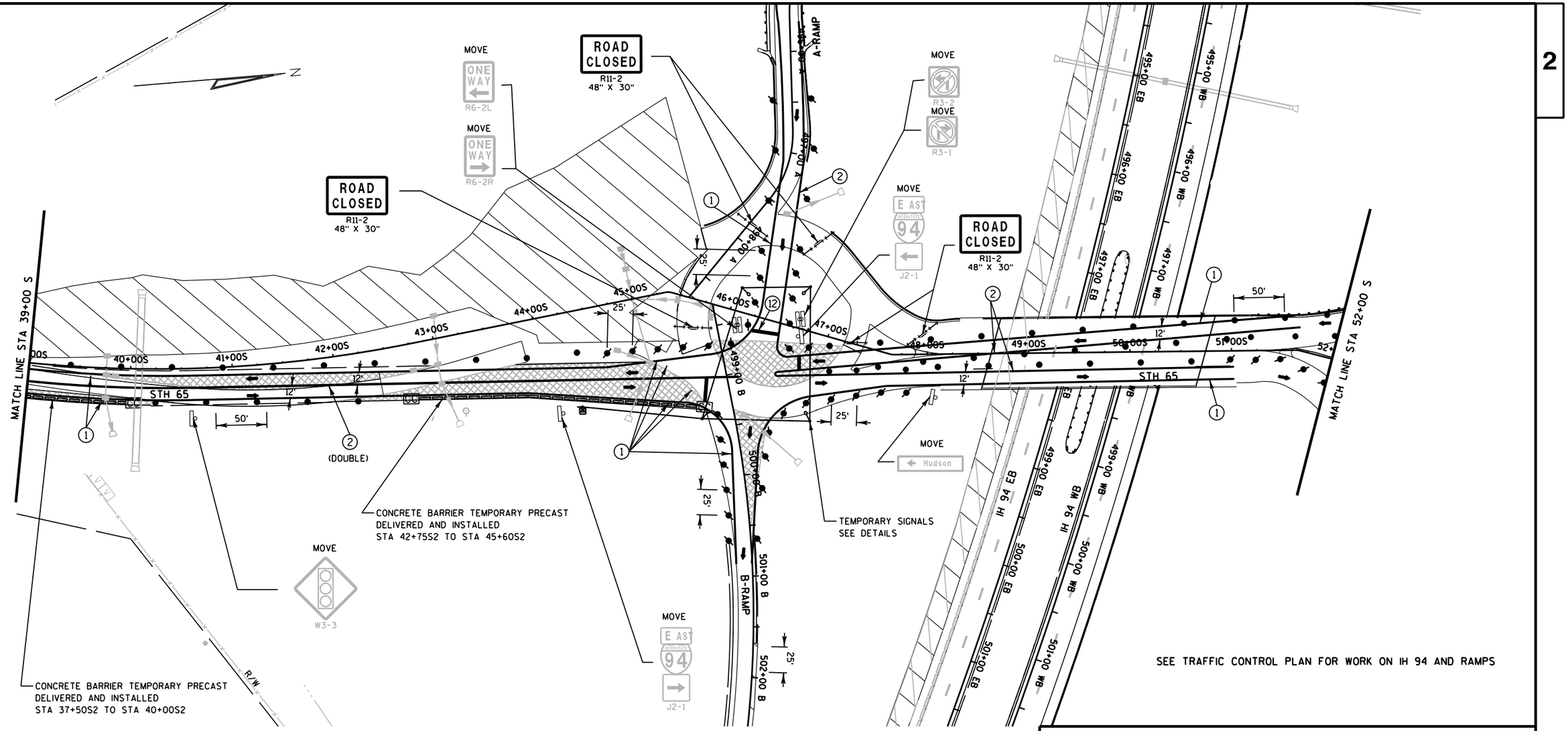


PAVEMENT MARKING LEGEND

(1)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
(2)	TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
(3)	TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
(4)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(5)	TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
(6)	TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
(7)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
(8)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
(9)	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
(10)	EXISTING PAVEMENT MARKINGS TO REMAIN
(11)	TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE
(12)	TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	STH 65 TRAFFIC CONTROL - STAGE 3F (SHEET 1 OF 3)	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\65501_stage3F.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :



SEE TRAFFIC CONTROL PLAN FOR WORK ON IH 94 AND RAMPS

TRAFFIC CONTROL LEGEND

TYPE III BARRICADE	TEMPORARY SHORING
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	WORK AREA
FLASHING ARROW BOARD	ASPHALTIC SURFACE TEMPORARY
SIGN ON SUPPORT	HMA PAVEMENT
DELINEATOR FLEXIBLE/TUBULAR MARKER	DIRECTION OF TRAFFIC
DELINEATORS TEMPORARY	TRAFFIC CONTROL SIGNS PCMS
TRAFFIC CONTROL VERTICAL PANELS	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
	DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN
11. TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE
12. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	STH 65 TRAFFIC CONTROL - STAGE 3F (SHEET 2 OF 3)	SHEET 282 E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\65502_stage3F.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 42

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN
11. TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE
12. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH

W01-6 48" X 24"

MATCH LINE STA 52+00 S

D-RAMP

DB-RAMP

RAMP CLOSED
R11-2(MOD)
48" X 30"

C-RAMP

R4-7
24" X 30"

STH 65

70TH AVENUE

SEE TRAFFIC CONTROL OVERVIEW FOR ADVANCED WARNING SIGNING DETAILS

STOP
R1-1
30" X 30"

SPEED LIMIT 40
R2-1
24" X 30"

ROAD CLOSED
R11-2
48" X 30"

INSTALL PERMANENT RAB SIGNING PRIOR TO OPENING

TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CC CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	STH 65 TRAFFIC CONTROL - STAGE 3F (SHEET 3 OF 3)	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\65503_stage3F.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE : WISDOT/CADDS SHEET

2

TRAFFIC

IH 94

IH 94 EB TRAFFIC TO REMAIN ON THE NEW EB MAINLINE.

IH 94 WB TRAFFIC TO REMAIN ON THE NEW WB MAINLINE.

IH 94/STH 65 EB EXIT RAMP TRAFFIC TO REMAIN ON THE NEW EB EXIT A-RAMP.

IH 94/STH 65 EB ENTRANCE RAMP TRAFFIC TO REMAIN ON THE NEW EB ENTRANCE B-RAMP

IH 94/STH 65 WB EXIT RAMP TRAFFIC TO REMAIN ON THE NEW WB EXIT C-RAMP.

IH 94/STH 65 WB ENTRANCE RAMP TRAFFIC TO REMAIN ON THE NEW WB ENTRANCE D-RAMP.

STH 65

STH 65 TRAFFIC TO MOVE TO THE NEW MAINLINE.

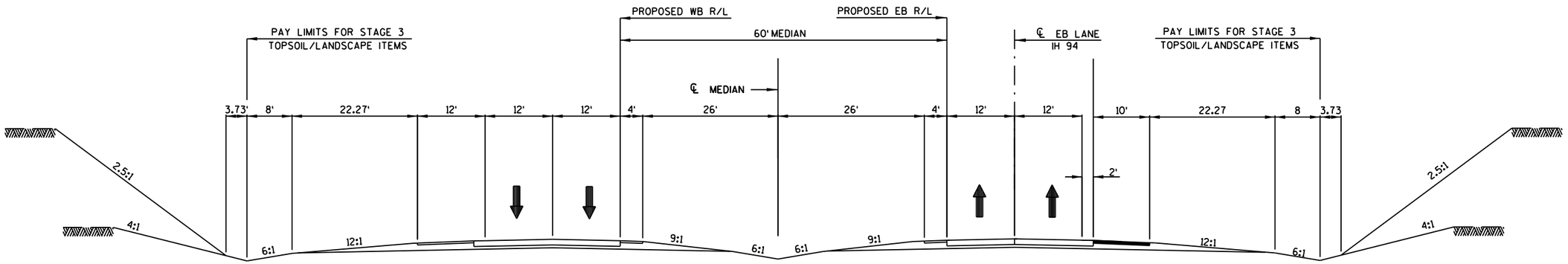
IH 94/STH 65 RAMP TRAFFIC TO MOVE TO THE NEW ROUNDABOUTS AND RAMPS.

CONSTRUCTION

STH 65

SWITCH MAINLINE TRAFFIC TO THE NEW STH 65 LANES.

COMPLETE MEDIAN, SHOULDER, AND CURB & GUTTER WORK ON STH 65.



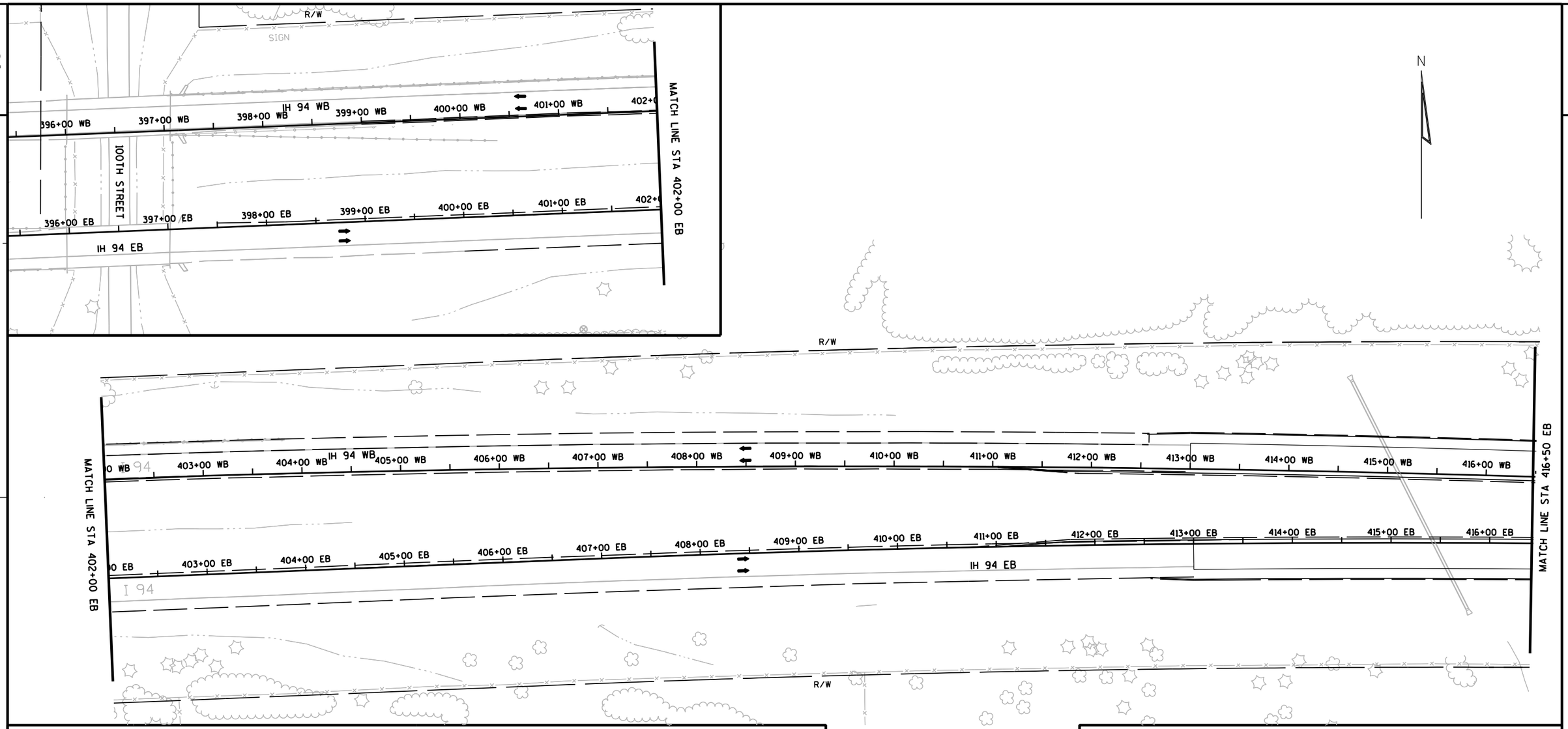
CONSTRUCTION STAGE 3G TYPICAL SECTION

411+50 - 525+00

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3G TYPICAL SECTIONS	SHEET 284	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\tc_All_Stages.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 42



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

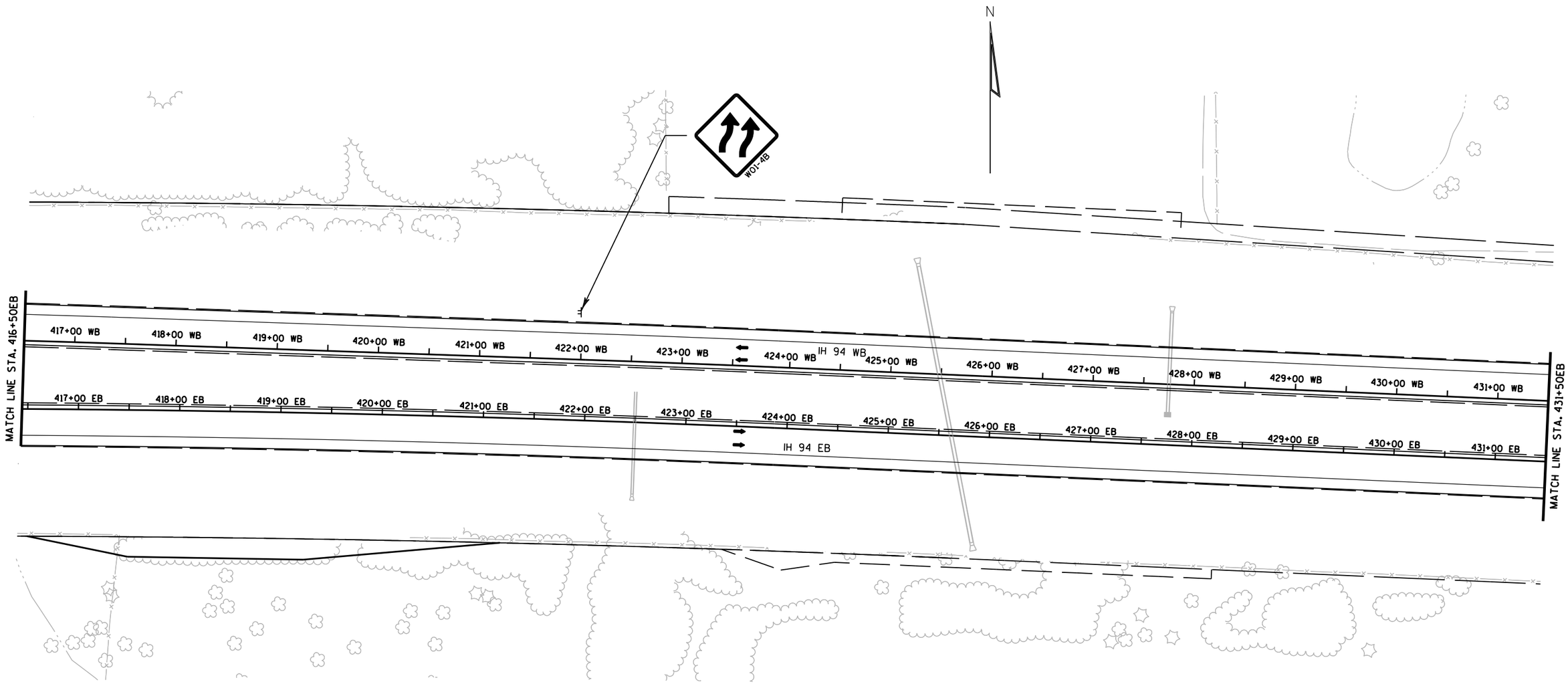
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3G	SHEET 285 E

2



TRAFFIC CONTROL LEGEND

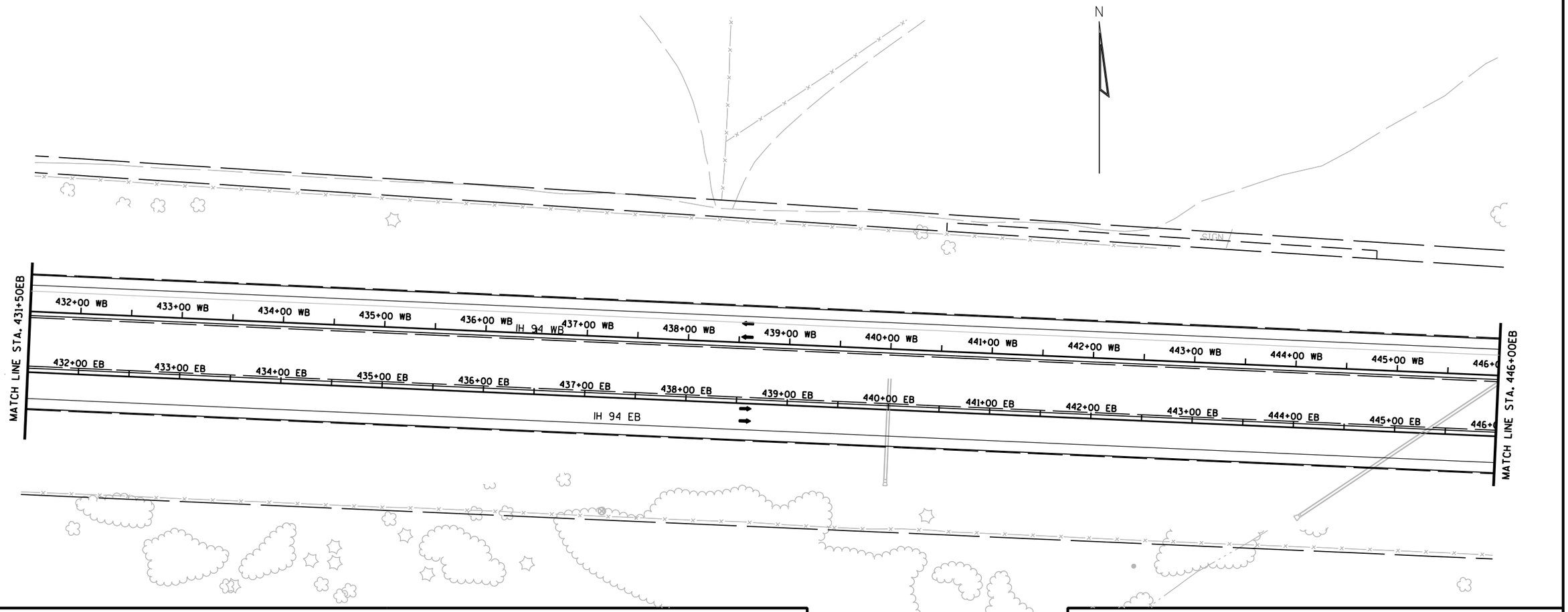
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

2



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

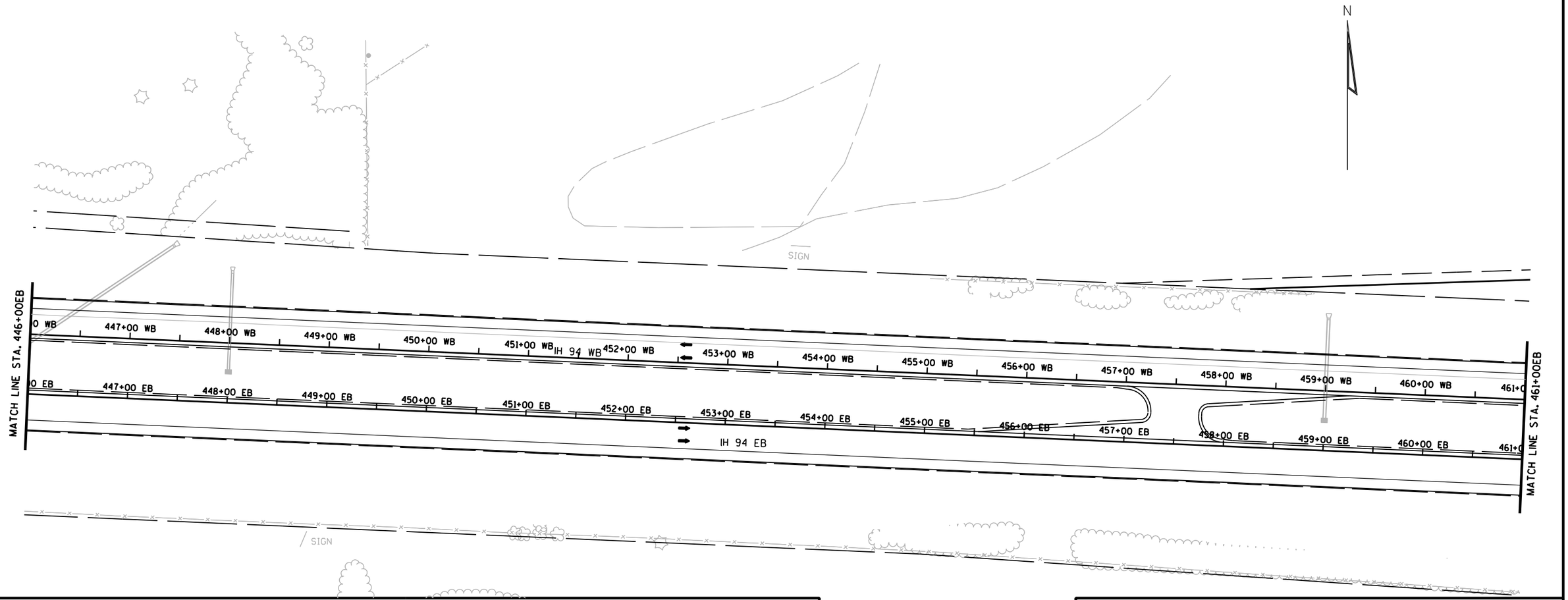
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3G	SHEET 287	E

2



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CC CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

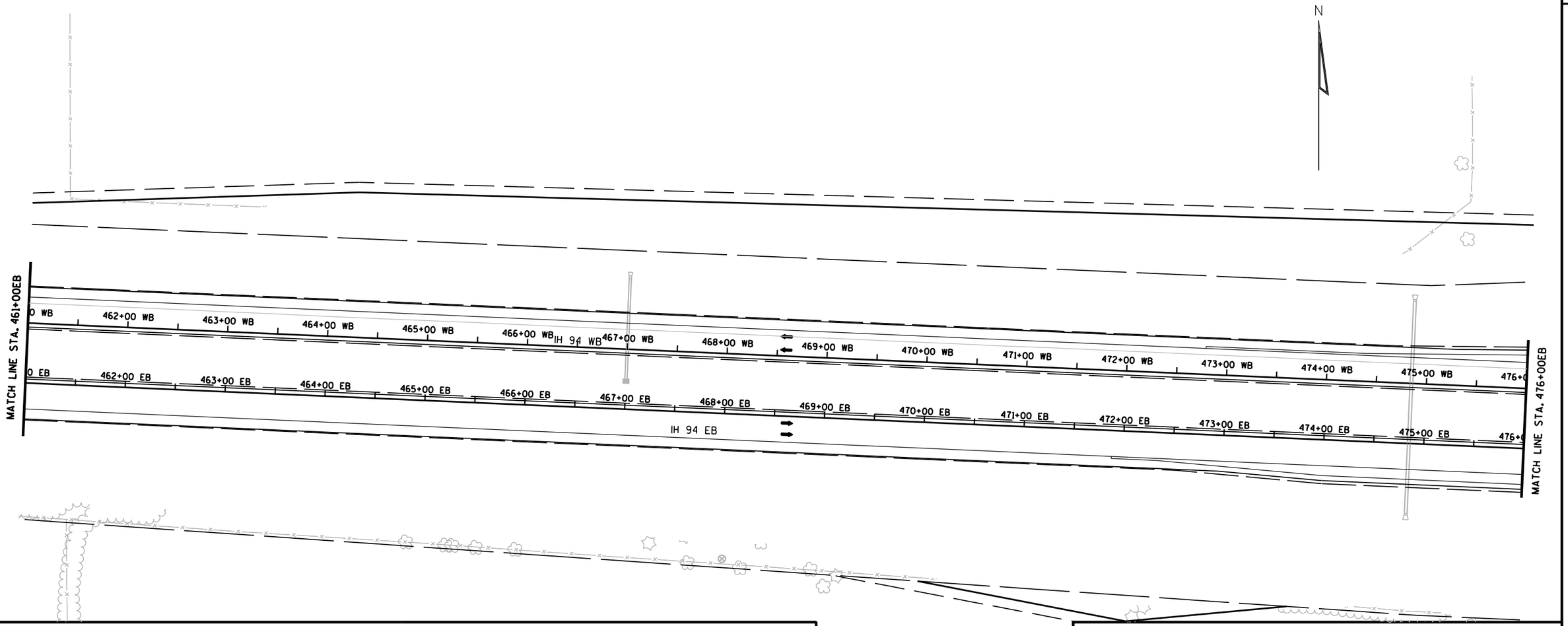
PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3G	SHEET 288	E

2

2



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

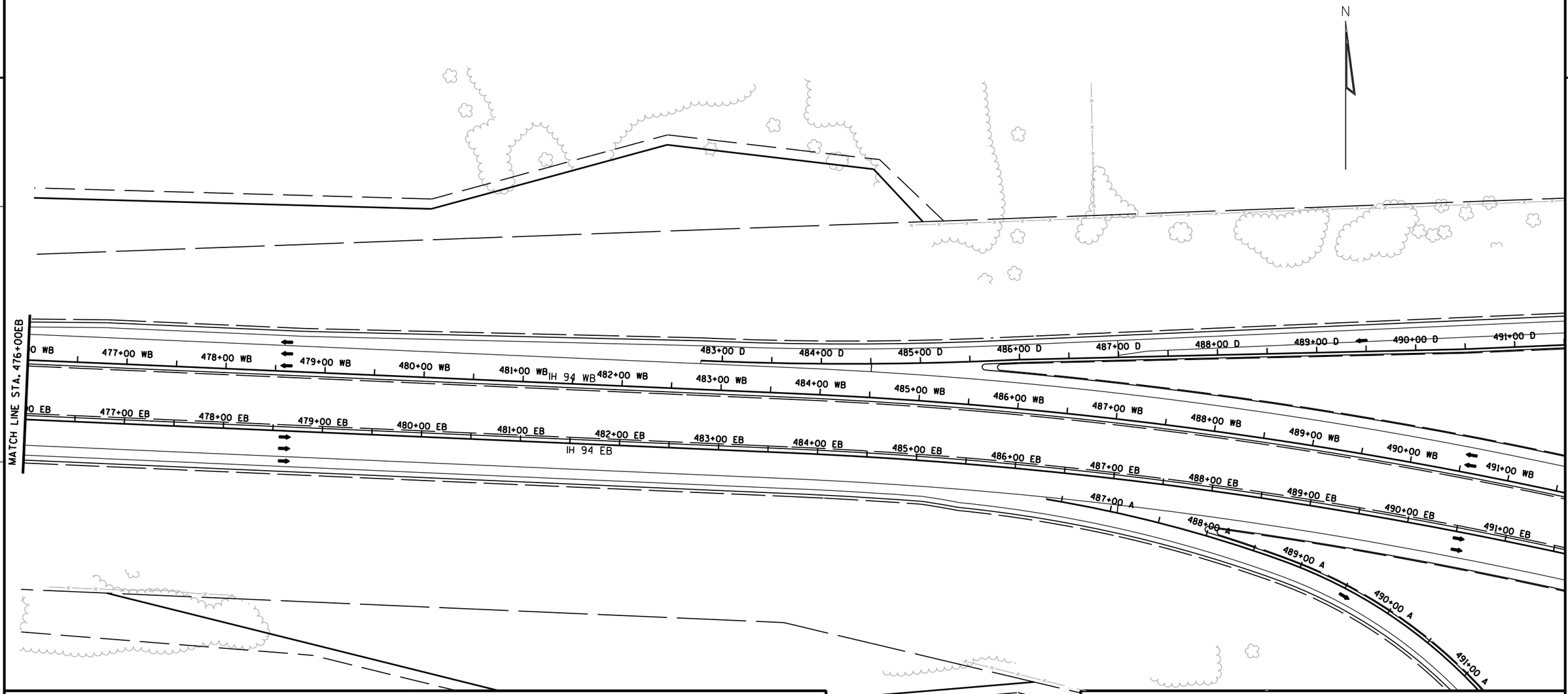
PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 947	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3G	SHEET 289	E

2

2



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3G	SHEET 290	E

TRAFFIC CONTROL LEGEND

‡	TYPE III BARRICADE	~~~	TEMPORARY SHORING
‡	TYPE III BARRICADE WTH ATTACHED SIGN	▭▭▭	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▭▭▭	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⇶	FLASHING ARROW BOARD	▩	ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▽	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

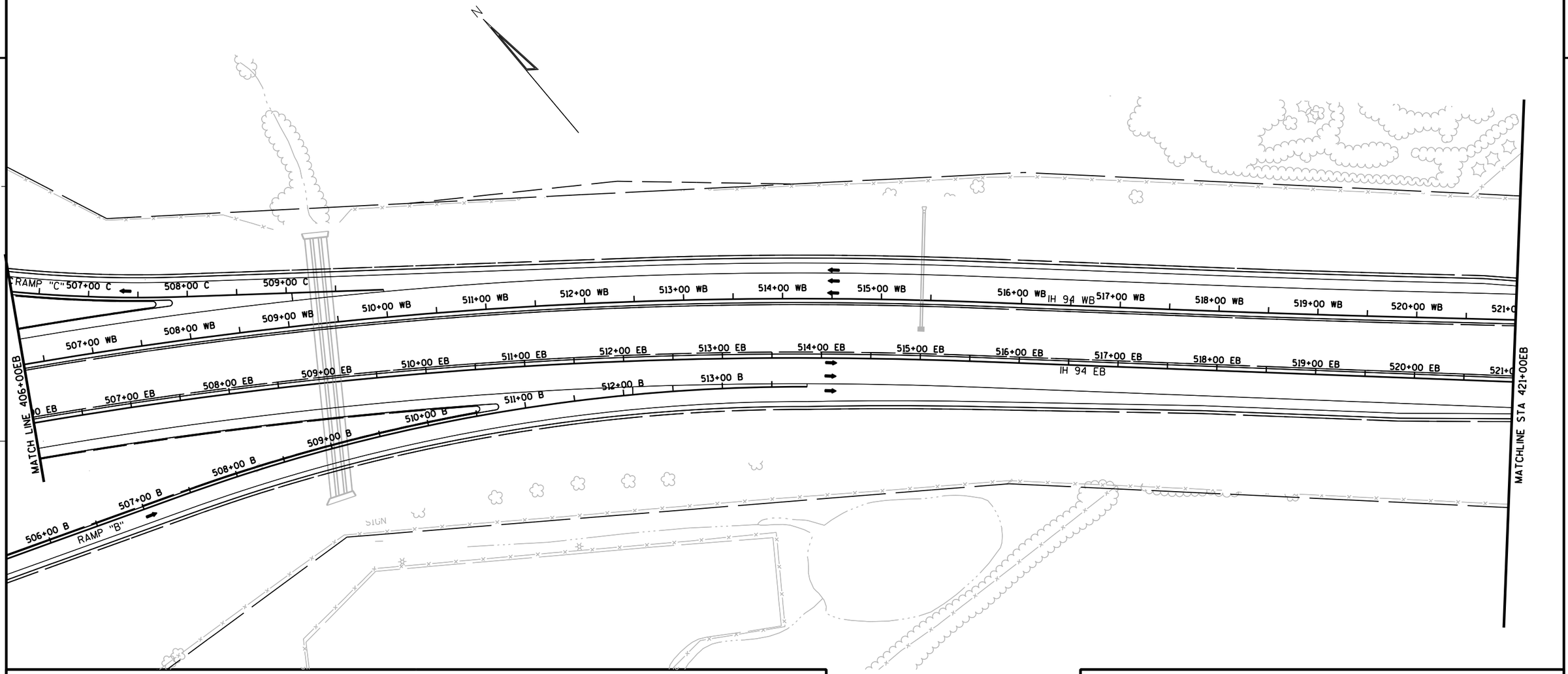
1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN
11. TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3G	SHEET 291 E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\025186_tc_stage3G.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 42

2



TRAFFIC CONTROL LEGEND

↕	TYPE III BARRICADE	~~~	TEMPORARY SHORING
	TYPE III BARRICADE WTH ATTACHED SIGN		CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM		CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		WORK AREA
	FLASHING ARROW BOARD		ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT		HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

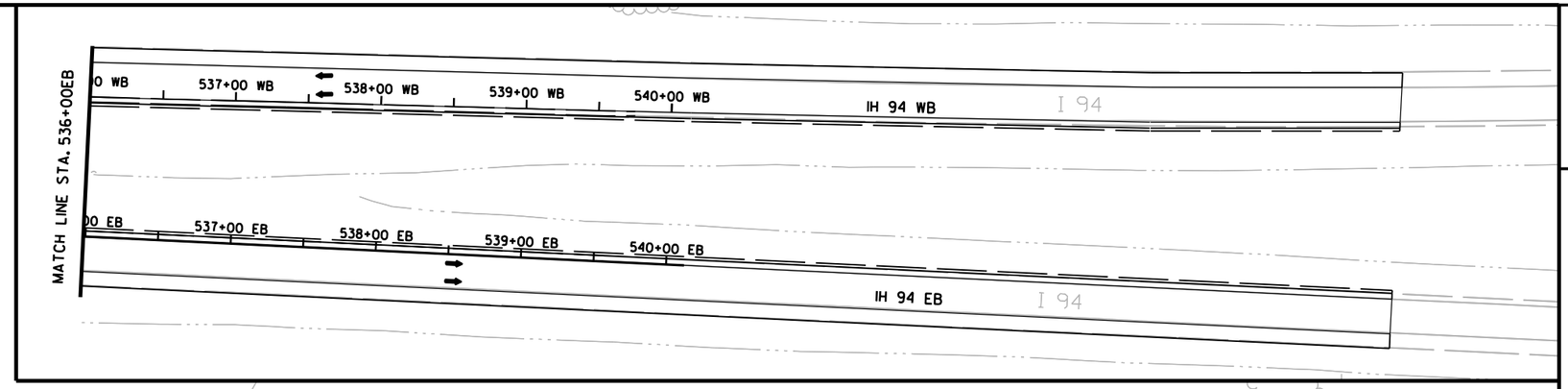
FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

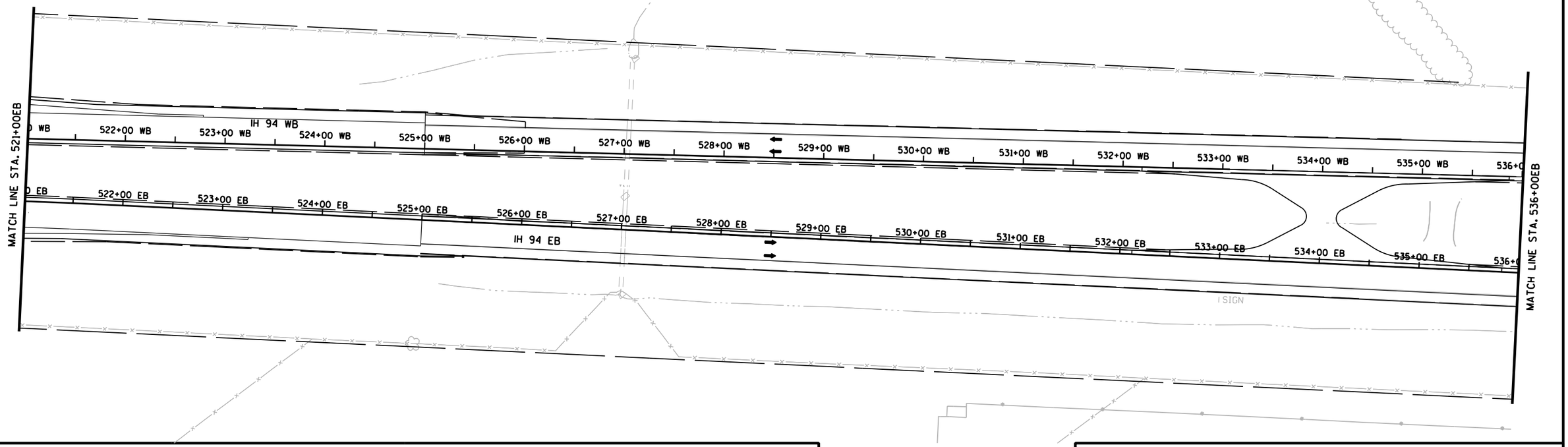
PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3G	SHEET 292	E

2





TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3G	SHEET 293 E

2

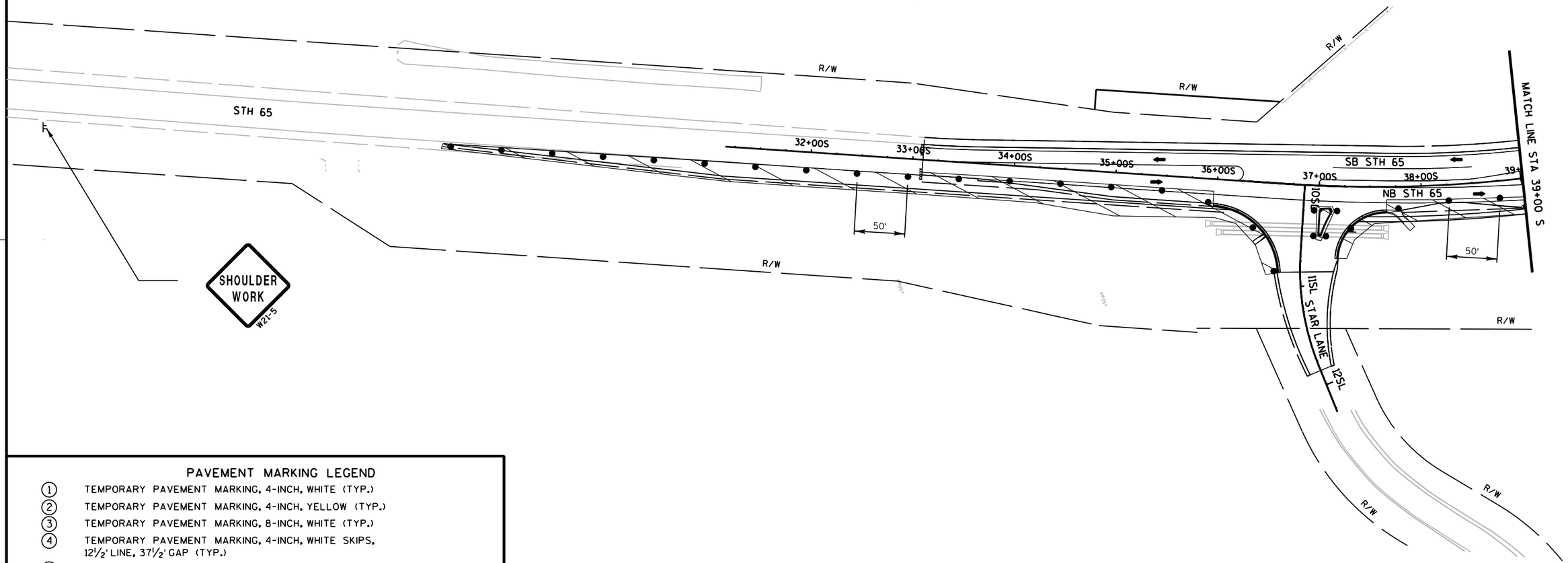
TRAFFIC CONTROL LEGEND

‡	TYPE III BARRICADE	∿∿	TEMPORARY SHORING
‡	TYPE III BARRICADE WTH ATTACHED SIGN	▭▭▭	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▭▭▭	CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK AREA
⇉	FLASHING ARROW BOARD	▨	ASPHALTIC SURFACE TEMPORARY
⊢	SIGN ON SUPPORT	▭	HMA PAVEMENT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER	➡	DIRECTION OF TRAFFIC
T	DELINEATORS TEMPORARY	MB	TRAFFIC CONTROL SIGNS PCMS
▽	TRAFFIC CONTROL VERTICAL PANELS	CC	CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
		⊤	DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

SEE TRAFFIC CONTROL OVERVIEW FOR ADVANCED WARNING SIGNING DETAILS

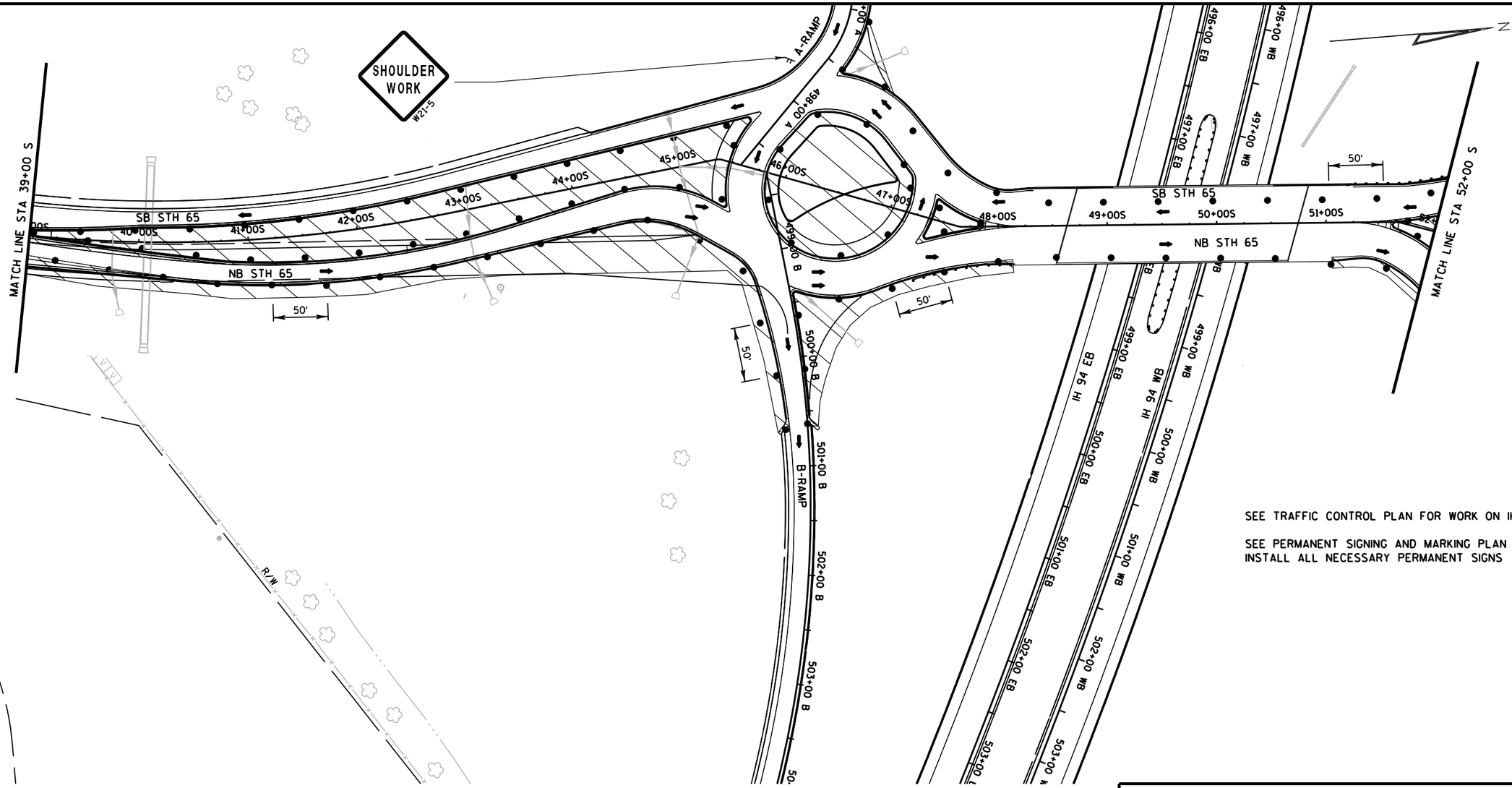
SEE SDD 'TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC.'



PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN
11. TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE
12. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	STH 65 TRAFFIC CONTROL - STAGE 3G (SHEET 1 OF 3)	SHEET 294	E



SEE TRAFFIC CONTROL PLAN FOR WORK ON IH 94 AND RAMPS

SEE PERMANENT SIGNING AND MARKING PLAN DETAILS AND INSTALL ALL NECESSARY PERMANENT SIGNS

TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN
11. TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE
12. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	STH 65 TRAFFIC CONTROL - STAGE 3G (SHEET 2 OF 3)	SHEET E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\65602_stage3G.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :
WISDOT/CADDS SHEET 42

2

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE (TYP.)
2. TEMPORARY PAVEMENT MARKING, 4-INCH, YELLOW (TYP.)
3. TEMPORARY PAVEMENT MARKING, 8-INCH, WHITE (TYP.)
4. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
5. TEMPORARY PAVEMENT MARKING, 4-INCH, WHITE SKIPS, 3' LINE, 9' GAP (TYP.)
6. TEMPORARY PAVEMENT MARKING, DIAGONAL 12-INCH (TYP.)
7. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE (TYP.)
8. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW (TYP.)
9. TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE SKIPS, 12½' LINE, 37½' GAP (TYP.)
10. EXISTING PAVEMENT MARKINGS TO REMAIN
11. TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE
12. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH

MATCH LINE STA 52+00 S

D-RAMP

DB-RAMP

C-RAMP

SB STH 65

NB STH 65

50'

SHOULDER WORK W21-5

SHOULDER WORK W21-5

70TH AVENUE

SEE TRAFFIC CONTROL OVERVIEW FOR ADVANCED WARNING SIGNING DETAILS

R/W

SIGN

STH 65

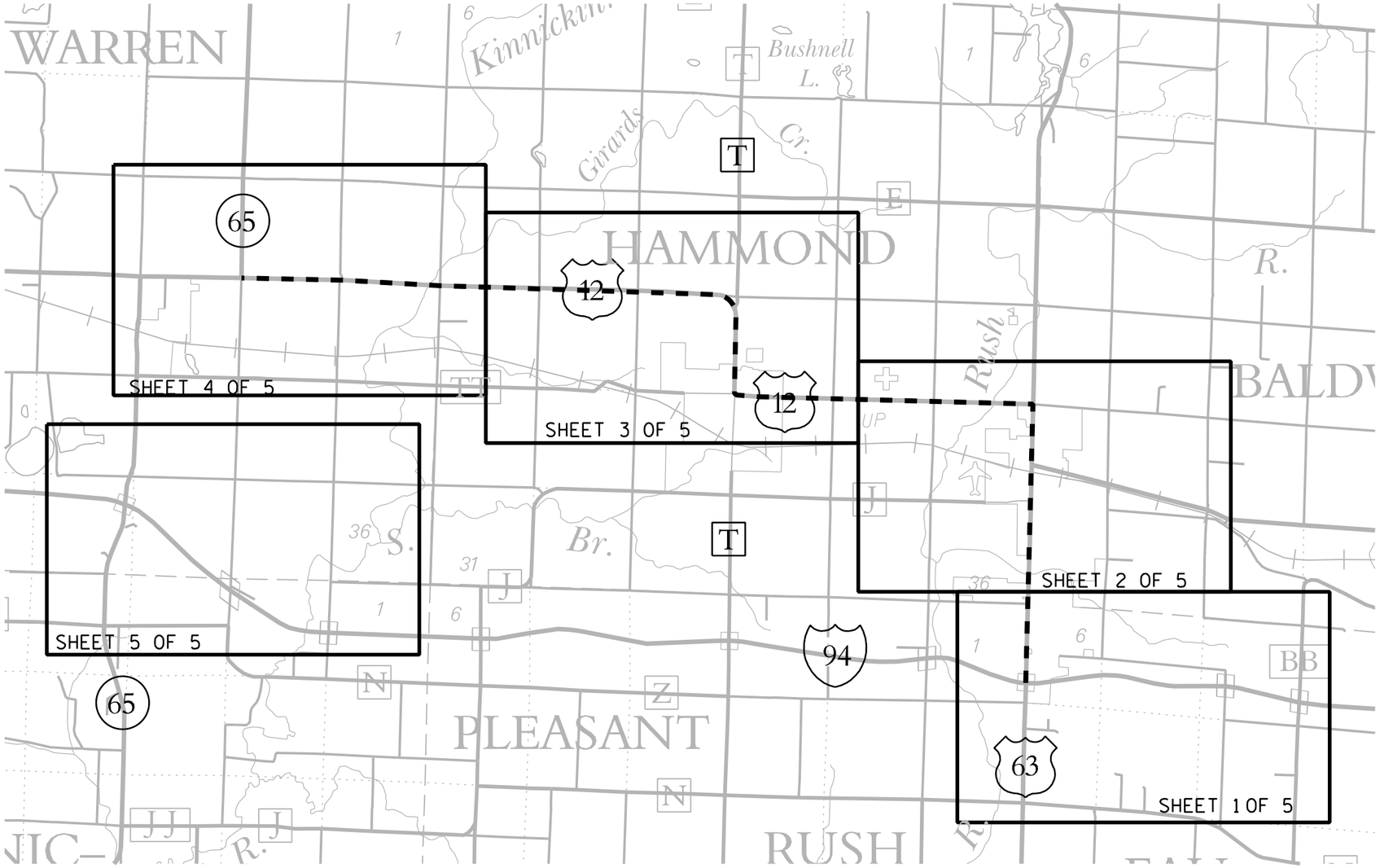
TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DELINEATORS TEMPORARY
- TRAFFIC CONTROL VERTICAL PANELS
- TEMPORARY SHORING
- CONCRETE BARRIER TEMPORARY PRECAST
- CONC. BARRIER TEMP. PRECAST, PREVIOUSLY INSTALLED
- WORK AREA
- ASPHALTIC SURFACE TEMPORARY
- HMA PAVEMENT
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CC CRASH CUSHIONS TEMPORARY (SEE CONSTRUCTION DETAILS)
- DELINEATORS TEMPORARY, DOUBLE SIDED

FOR ADDITIONAL INFORMATION SEE TYPICAL SECTION, PLAN AND PROFILES AND CROSS SECTIONS

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	STH 65 TRAFFIC CONTROL - STAGE 3G (SHEET 3 OF 3)	SHEET E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\65603_stage3G.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :



N

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OFF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" x 48" UNLESS OTHERWISE NOTED.

ALL M05 AND M06 ARROW SIGNS AND "WO" SHALL BE THE SAME AS "M" AND "W" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

ANY "STOP" SIGNS THAT ARE REMOVED FOR A CONSTRUCTION OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED.

ANY SIGN TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

ALL M3 SERIES SIGNS (NORTH, EAST, SOUTH, WEST) WHICH ARE PART OF ANY DETOUR ROUTE MARKER SIGNING ASSEMBLY OR ATTACHED TO ANY WARNING SIGN SHALL BE BLACK LETTERING ON A WHITE BACKGROUND.

NOTE:
FOR DETAILS NOT SHOWN SEE S.D.D. "DETOUR SIGNING FOR MAINLINE CLOSURES" AND S.D.D. "BARRICADES AND SIGNS FOR MAINLINE CLOSURES"

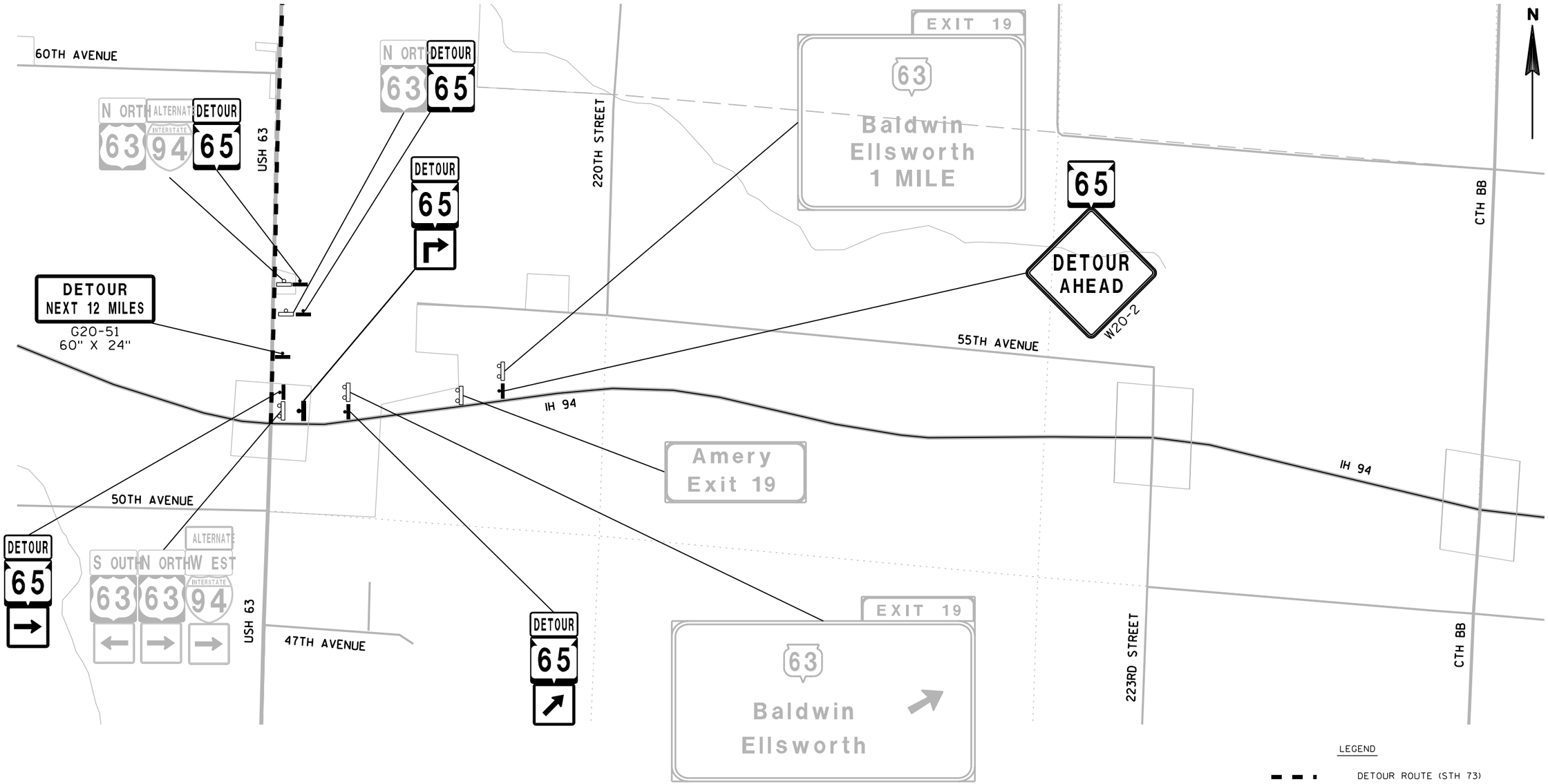
LEGEND

- DETOUR ROUTE (STH 65)
- EXISTING POST MOUNTED SIGN
- POST MOUNTED SIGN
- SIGNS COVERED
- (A) TYPE A LIGHT
- TYPE III BARRICADE

END DETOUR	65	12	COUNTY T	JCT	DETOUR	END	N ORTH	E AST	S OUTH	W EST				
M4-8A 24" X 18"	M1-6(2) 24" X 24"	M1-4(2) 24" X 24"	M1-5A(2) 24" X 24"	M2-1(2) 21" X 15"	M4-8(2) 24" X 12"	M4-6(2) 24" X 18"	M3-1(2) 24" X 12"	M3-2(2) 24" X 12"	M3-3(2) 24" X 12"	M3-4(2) 24" X 12"	M06-1(2) 21" X 21"	M05-1L(2) 21" X 21"	M05-1R(2) 21" X 21"	M06-4(2) 21" X 21"

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL DETOUR PLAN OVERVIEW	SHEET 297 E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\DETOUR OVERVIEW.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :



65 M1-6(2) 24" X 24"

12 M1-4(2) 24" X 24"

COUNTY T M1-5A(2) 24" X 24"

JCT M2-1(2) 21" X 15"

DETOUR M4-8(2) 24" X 12"

END M4-6(2) 24" X 18"

N ORTH M3-1(2) 24" X 12"

E AST M3-2(2) 24" X 12"

S OUTH M3-3(2) 24" X 12"

W EST M3-4(2) 24" X 12"

M06-1(2) 21" X 21"

M05-1L(2) 21" X 21"

M05-1R(2) 21" X 21"

M06-4(2) 21" X 21"

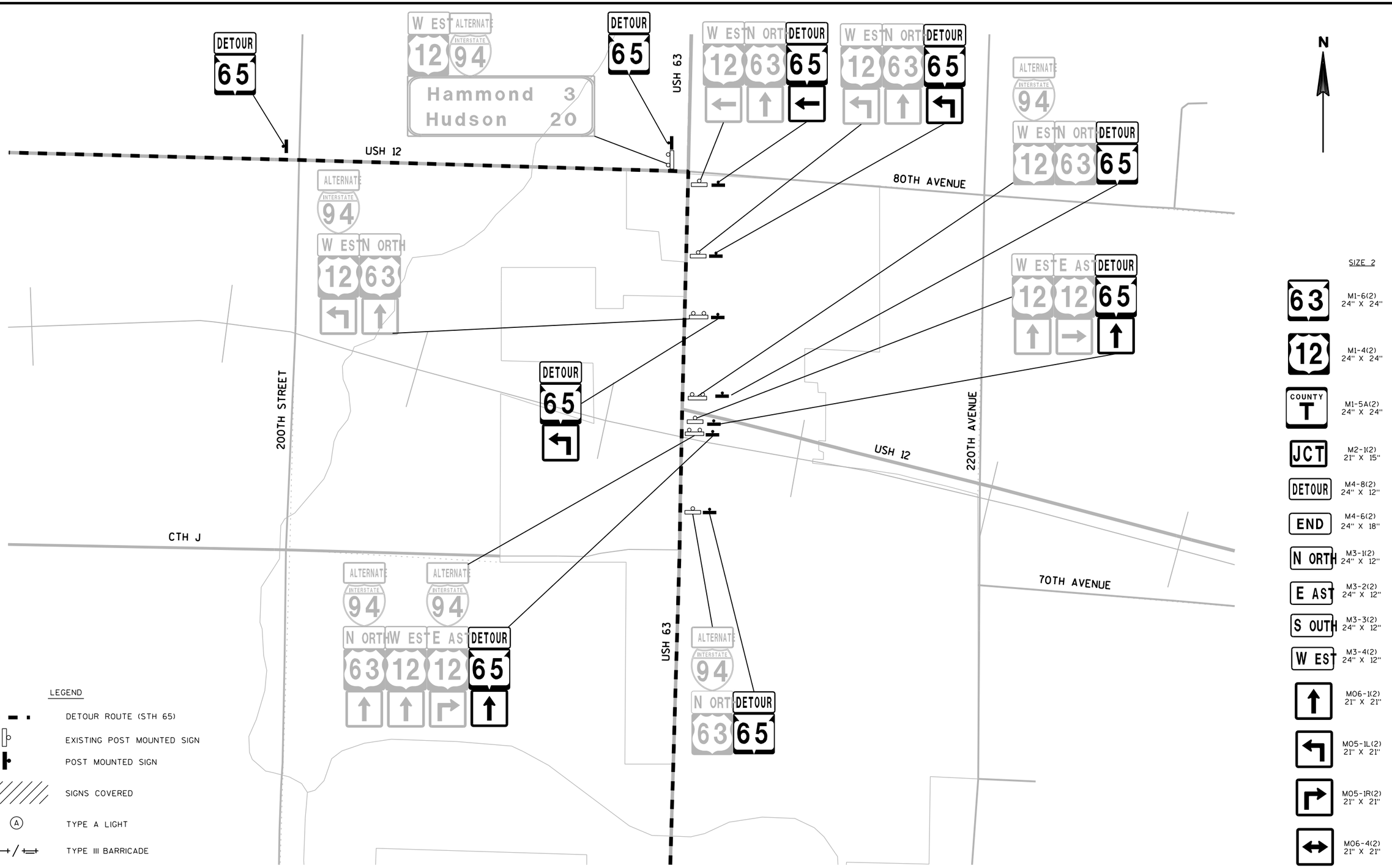
LEGEND

- DETOUR ROUTE (STH 73)
- EXISTING POST MOUNTED SIGN
- POST MOUNTED SIGN
- SIGNS COVERED
- (A) TYPE A LIGHT
- TYPE III BARRICADE

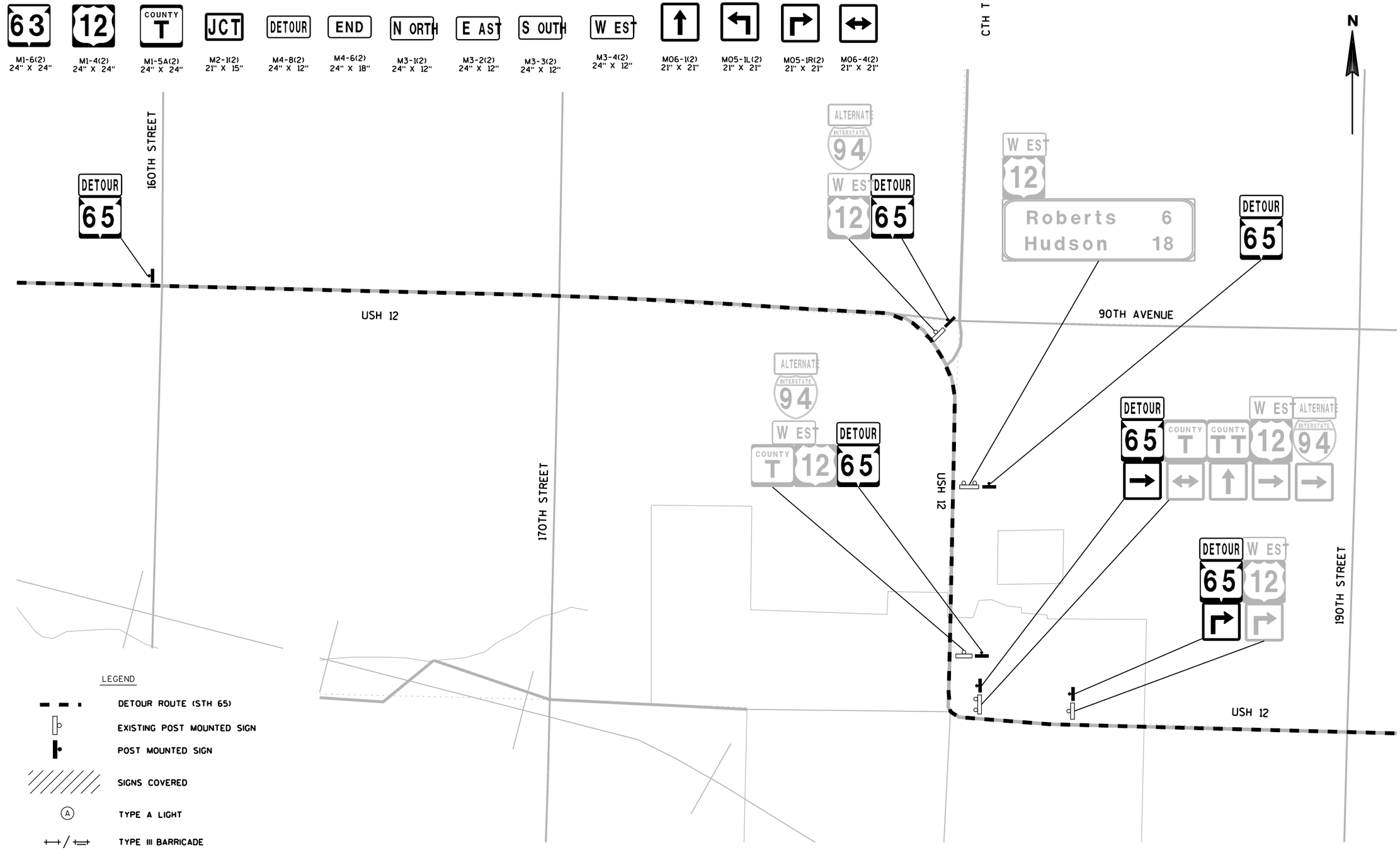
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL DETOUR PLAN DETAIL	SHEET 1 OF 5	SHEET E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\Detour1.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 42

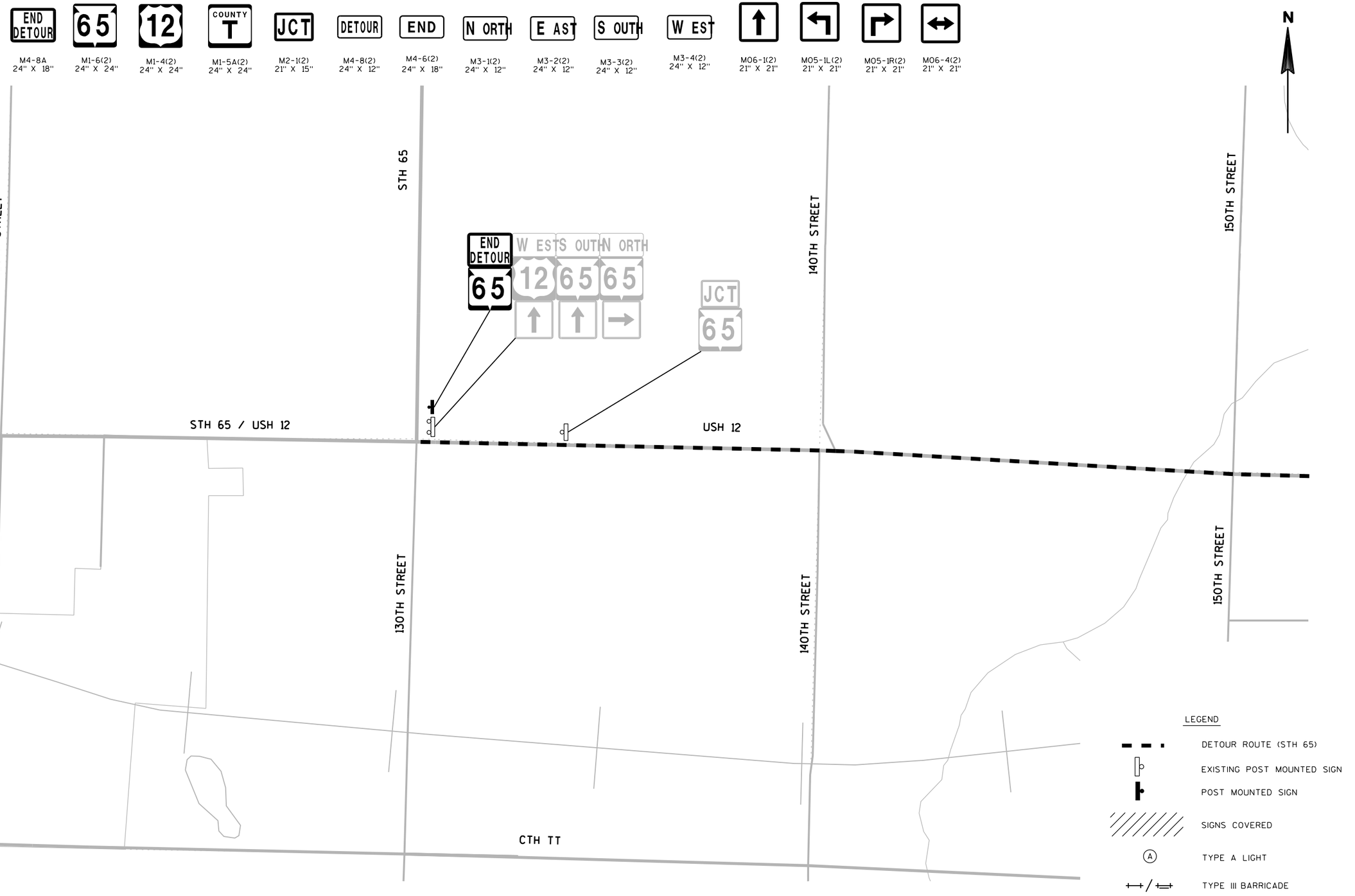


PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL DETOUR PLAN DETAIL SHEET 2 OF 5	SHEET 299 E



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL DETOUR PLAN DETAIL	SHEET 3 OF 5	SHEET 300	E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\Detour3.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

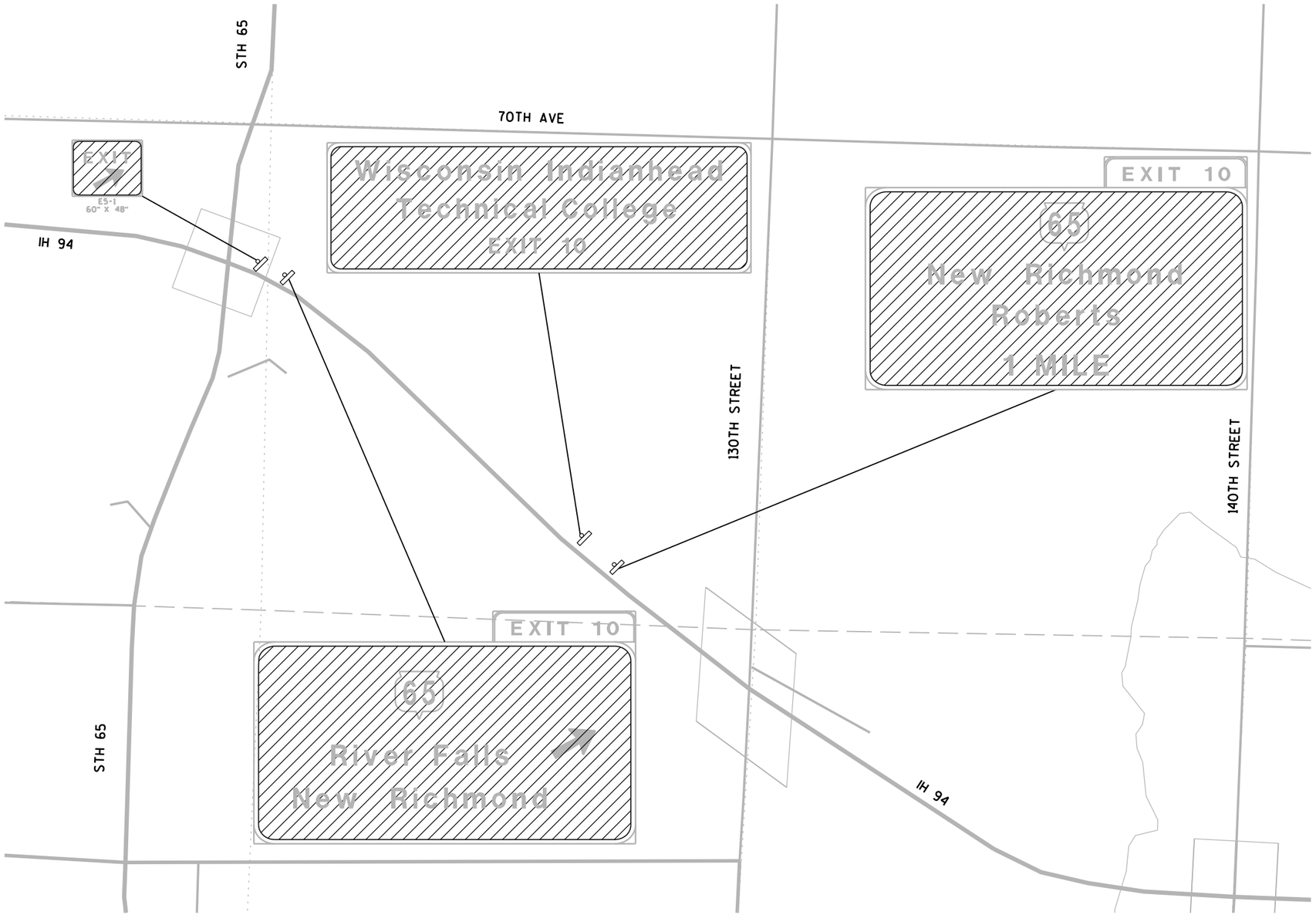


PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL DETOUR PLAN DETAIL SHEET 4 OF 5	SHEET 301 E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\Detour4.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 42







NOTE:
FOR DETAILS NOT SHOWN SEE S.D.D. "DETOUR SIGNING FOR MAINLINE CLOSURES" AND S.D.D. "TRAFFIC CONTROL, EXIT RAMP CLOSURE"

LEGEND

- DETOUR ROUTE (STH 65)
- EXISTING POST MOUNTED SIGN
- POST MOUNTED SIGN
- SIGNS COVERED
- (A) TYPE A LIGHT
- TYPE III BARRICADE

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL DETOUR PLAN DETAIL SHEET 5 OF 5	SHEET E

FILE NAME : G:\STRAND\S100917\DGN\TRAFFIC CONTROL\POST PS&E\Plan Sheets\Detour5.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

2

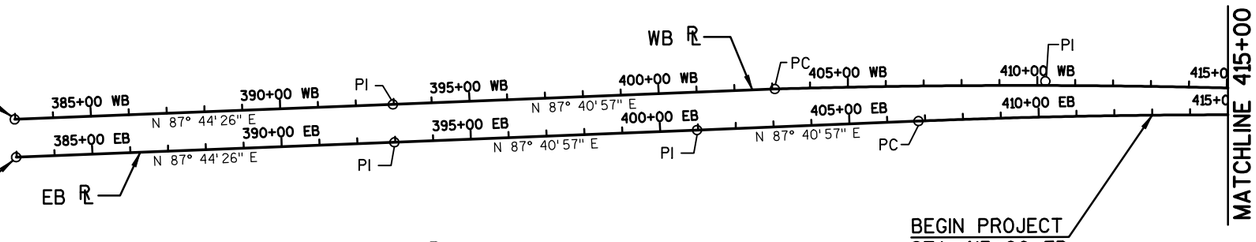
WB ℄

P.I. = 392+97.63 WB
Y = 337,204.46
X = 551,597.99

P.I. = 410+21.26 WB
Y = 337,265.78
X = 553,320.49
DELTA = 3° 36' 47" (RT)
D = 0° 15' 11"
T = 714.39'
L = 1,428.31'
R = 22,650.00'
P.C. = 403+06.86 WB
P.T. = 417+35.17 WB
SE = NC

N

STA. 382+98.36 WB =
STA. 382+98.36 EB, 100'LT
Y = 337,165.06
X = 550,599.49



STA. 382+98.36 EB
Y = 337,065.14
X = 550,603.43

BEGIN PROJECT
STA. 413+00 EB

EB ℄

P.I. = 392+97.63 EB
Y = 337,104.54
X = 551,601.93

P.I. = 400+97.51 EB
Y = 337,136.88
X = 552,401.15

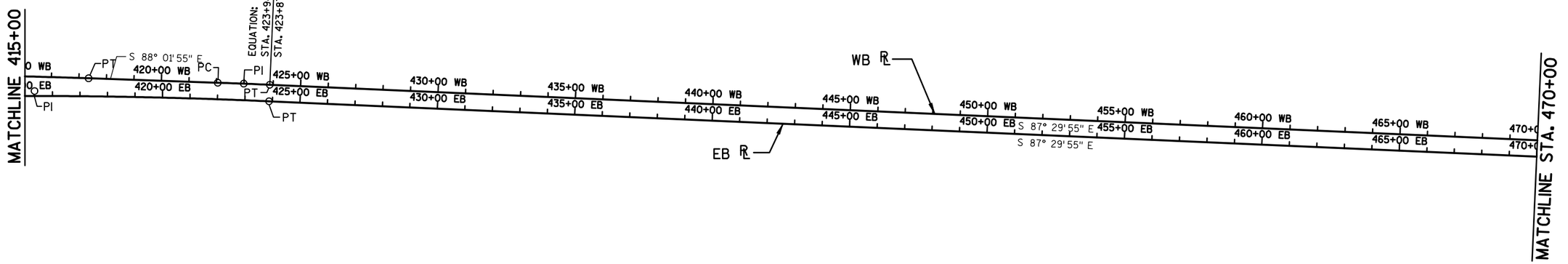
P.I. = 415+35.48 EB
Y = 337,195.03
X = 553,837.94
DELTA = 4° 49' 08" (RT)
D = 0° 16' 57"
T = 853.26'
L = 1,705.52'
R = 20,277.92'
P.C. = 406+82.22 EB
P.T. = 423+87.73 EB
SE = NC

N

WB ℄

P.I. = 422+99.53 WB
Y = 337,221.86
X = 554,598.48
DELTA = 0° 32' 00" (RT)
D = 0° 16' 54"
T = 94.66'
L = 189.32'
R = 20,337.92'
P.C. = 422+04.87 WB
P.T. = 423+94.19 WB
SE = NC

EQUATION:
STA. 423+94.19 WB BK =
STA. 423+87.78 WB AH
EQUATION



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	ALIGNMENT DETAIL	SHEET 303	E

EB ℞

P.I. = 500+30.11 EB
Y = 336,824.24
X = 562,325.48
DELTA = 39° 41' 01" (RT)
D = 1° 14' 53"
T = 1,656.52'
L = 3,179.53'
R = 4,590.66'
P.C. = 483+73.59 EB
P.T. = 515+53.12 EB
S.E. = 4.00%
RO = 240.00'
SE TRANS = 360.00'

P.I. = 521+47.98 EB
Y = 335,312.37
X = 563,993.71

P.I. = 533+12.42 EB
Y = 334,521.76
X = 564,848.62

P.I. = 548+30.00 EB
Y = 333,491.91
X = 565,963.27

WB ℞

P.I. = 500+51.76 WB
Y = 336,883.23
X = 562,349.73
DELTA = 39° 41' 01" (RT)
D = 1° 13' 55"
T = 1,678.17'
L = 3,221.09'
R = 4,650.66'
P.C. = 483+73.59 WB
P.T. = 515+94.68 WB
S.E = 4.00%
RO = 240.00'
SE TRANS = 360.00'

P.I. = 518+88.78 WB
Y = 335,530.89
X = 563,841.94
DELTA = 0° 43' 35" (LT)
D = 0° 19' 06"
T = 114.09'
L = 228.18'
R = 18,000.00'
P.C. = 517+74.69 WB
P.T. = 520+02.87 WB
S.E. = NC

P.I. = 533+07.04 WB
Y = 334,591.88
X = 564,904.84

P.I. = 540+13.50 WB
Y = 334,123.77
X = 565,433.94

D RAMP ℞

P.I. = 482+78.35 D
Y = 336,989.61
X = 560,579.28

P.I. = 484+26.52 D
Y = 336,983.14
X = 560,727.30
DELTA = 4° 59' 00" (LT)
D = 1° 40' 58"
T = 148.17'
L = 296.15'
R = 3,405.00'
P.C. = 482+78.35 D
P.T. = 485+74.50 D
SE = 4.00%
RO = 107.00'
SE TRANS = 161.00'

P.I. = 485+99.75 D
Y = 336,990.65
X = 560,900.56

P.I. = 490+49.84 D
Y = 337,001.14
X = 561,350.53

POT = 498+27.08 D
Y = 337,034.80
X = 562,127.04

DB RAMP ℞

P.I. = 493+74.84 DB
Y = 337,029.20
X = 561,674.62

P.I. = 497+41.35 DB
Y = 337,078.57
X = 562,037.79
DELTA = 75° 18' 26" (LT)
D = 12° 03' 44"
T = 366.51'
L = 624.32'
R = 475.00'
P.C. = 493+74.84 DB
P.T. = 499+99.16 DB
SE = 5.7%
RO = 110.00'
SE TRANS = 149.00'

P.I. = 499+99.16 DB
Y = 337,442.39
X = 562,082.15

C RAMP ℞

POT = 496+06.27 C
Y = 337,048.42
X = 562,131.77

P.I. = 497+34.02 C
Y = 336,964.89
X = 562,228.43
DELTA = 31° 56' 22" (LT)
D = 59° 40' 59"
T = 27.47'
L = 53.52'
R = 96.00'
P.C. = 497+06.55 C
P.T. = 497+60.06 C

P.I. = 499+62.06 C
Y = 336,929.40
X = 562,455.14
DELTA = 46° 21' 49" (RT)
D = 24° 22' 52"
T = 100.63'
L = 190.16'
R = 235.00'
P.C. = 498+61.42 C
P.T. = 500+51.58 C
SE = 6.00%
RO = 109.00'
SE TRANS = 145.00'

P.I. = 505+93.44 C
Y = 336,401.44
X = 562,821.27
DELTA = 17° 17' 00" (LT)
D = 4° 11' 51"
T = 207.45'
L = 411.75'
R = 1,365.00'
P.C. = 503+85.99 C
P.T. = 507+97.74 C
SE = 5.30%
RO = 127.00'
SE TRANS = 175.00'

P.I. = 509+98.57 C
Y = 336,150.22
X = 563,143.11

A RAMP ℞

P.I. = 486+34.67 A
Y = 336,849.87
X = 560,928.10

P.I. = 487+58.18 A
Y = 336,829.63
X = 561,049.94
DELTA = 10° 20' 25" (RT)
D = 4° 11' 51"
T = 123.51'
L = 246.34'
R = 1,365.00'
P.C. = 486+34.67 A
P.C.C. = 488+81.01 A
SE = 5.30%
RO = 127.00'
SE TRANS = 175.00'

P.I. = 490+14.73 A
Y = 336,742.61
X = 561,291.99
DELTA = 29° 56' 42" (RT)
D = 11° 27' 33"
T = 133.72'
L = 261.32'
R = 500.00'
P.C.C. = 488+81.01 A
P.T. = 491+42.33 A
SE = 6.00%
RO = 124.00'
SE TRANS = 165.00'

P.I. = 494+80.27 A
Y = 336,382.79
X = 561,596.94
DELTA = 46° 33' 04" (LT)
D = 24° 54' 40"
T = 98.94'
L = 186.87'
R = 230.00'
P.C. = 493+81.33 A
P.T. = 495+68.20 A
SE = 6.0%
RO = 109.00'
SE TRANS = 145.00'

P.I. = 497+16.36 A
Y = 336,369.13
X = 561,843.66
DELTA = 41° 05' 02" (RT)
D = 54° 34' 03"
T = 39.35'
L = 75.29'
R = 105.00'
P.C. = 496+77.02 A
P.T. = 497+52.31 A

POT = 498+76.10 A
Y = 336,255.29
X = 561,960.51

STH 65 ℞

P.I. = 31+15.35
Y = 334,862.41
X = 561,712.64

P.I. = 39+79.29
Y = 335,670.44
X = 562,018.38
DELTA = 27° 17' 14" (LT)
D = 4° 29' 38"
T = 309.48'
L = 607.22'
R = 1,275.00'
P.C. = 36+69.81
P.T. = 42+77.02

P.I. = 45+36.94
Y = 336,236.11
X = 561,953.31
DELTA = 27° 06' 34" (RT)
D = 381° 58' 19"
T = 3.62'
L = 7.10'
R = 15.00'
P.C. = 45+33.33
P.T. = 45+40.42

P.I. = 47+65.43
Y = 336,450.18
X = 562,033.56
DELTA = 16° 24' 09" (LT)
D = 381° 58' 19"
T = 2.16'
L = 4.29'
R = 15.00'
P.C. = 47+63.27
P.T. = 47+67.56

P.I. = 51+65.12
Y = 336,848.86
X = 562,062.45
DELTA = 15° 00' 38" (RT)
D = 381° 58' 19"
T = 1.98'
L = 3.93'
R = 15.00'
P.C. = 51+63.15
P.T. = 51+67.08

P.I. = 54+47.82
Y = 337,115.93
X = 562,155.23
DELTA = 24° 31' 43" (LT)
D = 381° 58' 19"
T = 3.26'
L = 6.42'
R = 15.00'
P.C. = 54+44.56
P.T. = 54+50.98

P.I. = 60+21.21
Y = 337,686.89
X = 562,101.53
DELTA = 25° 13' 39" (RT)
D = 2° 41' 47"
T = 475.53'
L = 935.64'
R = 2,125.00'
P.C. = 55+45.68
P.T. = 64+81.32

P.I. = 70+95.48
Y = 338,711.80
X = 562,471.63
DELTA = 19° 58' 47" (LT)
D = 3° 00' 56"
T = 334.68'
L = 662.56'
R = 1,900.00'
P.C. = 67+60.80
P.T. = 74+23.36

P.I. = 77+18.24
Y = 339,341.36
X = 562,470.25

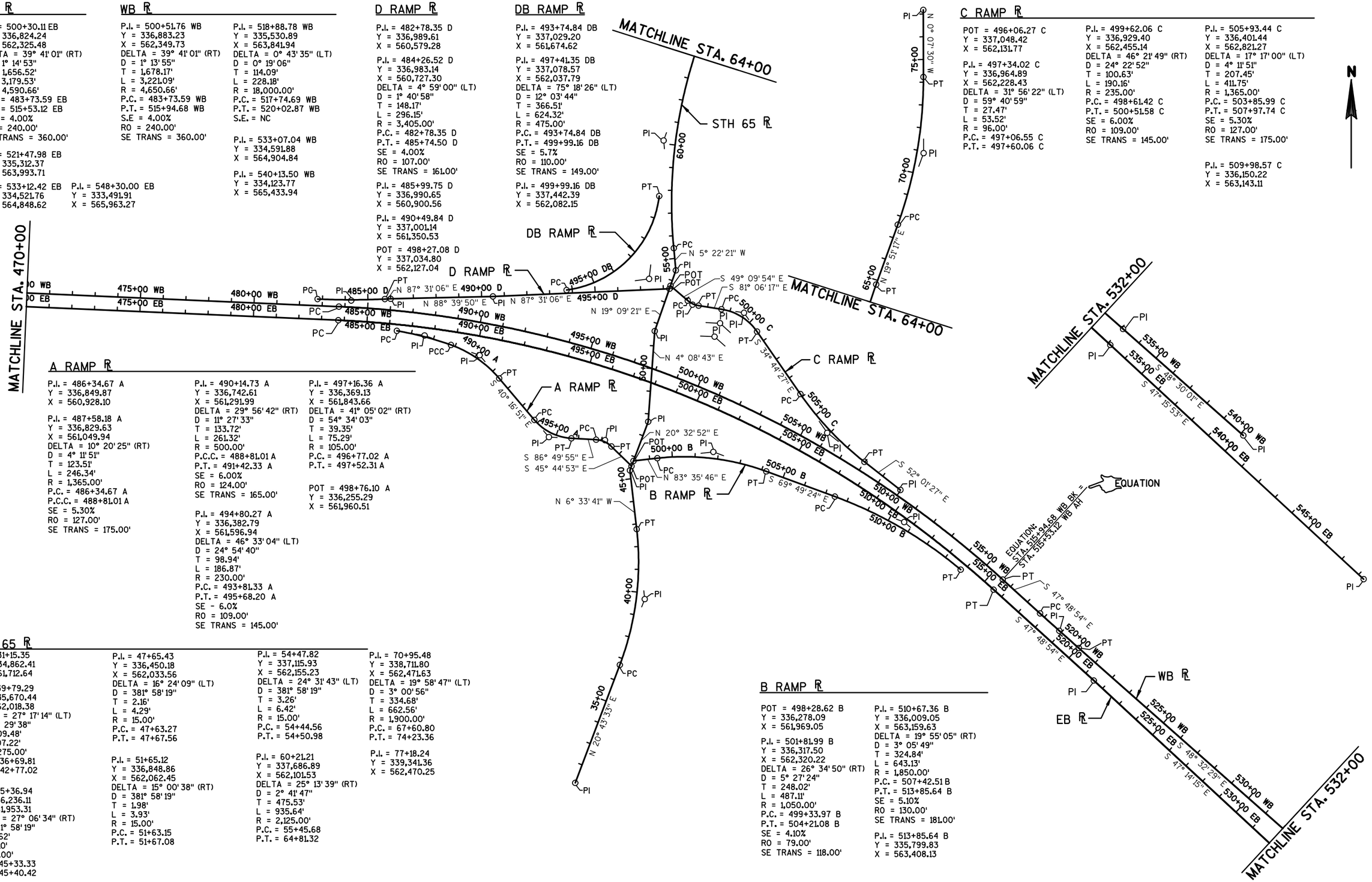
B RAMP ℞

POT = 498+28.62 B
Y = 336,278.09
X = 561,969.05

P.I. = 501+81.99 B
Y = 336,317.50
X = 562,320.22
DELTA = 26° 34' 50" (RT)
D = 5° 27' 24"
T = 248.02'
L = 487.11'
R = 1,050.00'
P.C. = 499+33.97 B
P.T. = 504+21.08 B
SE = 4.10%
RO = 79.00'
SE TRANS = 118.00'

P.I. = 510+67.36 B
Y = 336,009.05
X = 563,159.63
DELTA = 19° 55' 05" (RT)
D = 3° 05' 49"
T = 324.84'
L = 643.13'
R = 1,850.00'
P.C. = 507+42.51 B
P.T. = 513+85.64 B
SE = 5.10%
RO = 130.00'
SE TRANS = 181.00'

P.I. = 513+85.64 B
Y = 335,799.83
X = 563,408.13



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	ALIGNMENT DETAIL	SHEET 304	E

2

STH 65 'SB' ℄
SOUTHBOUND INSIDE EDGE OF PAVEMENT
FOR PAVEMENT GRADES & SUPERELEVATION, SEE PAVING GRADES DETAIL

'SB' PI #1
STA: 33+10.00
X: 561781.500
Y: 335044.470

'SB'PI # 2
PI STA: 33+41.40
X: 561792.616
Y: 335073.835
DELTA: -2°54'11.53"
DEG: 5°39'41.90"
L: 51.28'
T: 25.64'
R: 1012.00'
PC STA: 33+15.75
PT STA: 33+67.03

'SB'PI # 3
PI STA: 40+19.69
X: 562000.225
Y: 335719.588
DELTA: -26°40'20.06"
DEG: 5°23'31.03"
L: 494.67'
T: 251.90'
R: 1062.62'
PC STA: 37+67.79
PT STA: 42+62.46
STA BACK: 45+75.17
STA AHEAD: 55+11.46(2)

EQUATION

'SB' PI #4
STA: 55+11.46(2)
X: 561913.364
Y: 336277.477

'SB' PI #5
STA: 55+11.46(2)
X: 561913.364
Y: 336277.477

'SB'PI # 6
PI STA: 55+19.91(2)
X: 562144.716
Y: 337187.453
DELTA: -7°27'13.16"
DEG: 44°09'00.65"
L: 16.88'
T: 8.45'
R: 129.77'
PC STA: 55+11.46(2)
PT STA: 55+28.34(2)

'SB'PI # 7
PI STA: 57+15.40(2)
X: 562102.969
Y: 337378.450
DELTA: 15°53'42.40"
DEG: 7°28'47.52"
L: 212.51'
T: 106.94'
R: 766.00'
PC STA: 56+08.46(2)
PT STA: 58+20.96(2)

'SB'PI # 8
PI STA: 58+95.97(2)
X: 562108.253
Y: 337560.170
DELTA: 6°01'17.65"
DEG: 4°01'04.57"
L: 149.87'
T: 75.00'
R: 1426.00'
PC STA: 58+20.96(2)
PT STA: 59+70.83(2)

'SB'PI # 9
PI STA: 60+80.70(2)
X: 562132.985
Y: 337743.235
DELTA: 8°44'39.11"
DEG: 3°59'13.85"
L: 219.31'
T: 109.87'
R: 1437.00'
PC STA: 59+70.83(2)
PT STA: 61+90.14(2)

'SB'PI # 10
PI STA: 64+56.95(2)
X: 562251.199
Y: 338100.884
DELTA: 1°16'04.28"
DEG: 2°41'46.58"
L: 47.02'
T: 23.51'
R: 2125.00'
PC STA: 64+33.44(2)
PT STA: 64+80.46(2)

'SB' PI #11
STA: 64+92.27(2)
X: 562263.030
Y: 338134.160

STH 65 'NB' ℄
NORTHBOUND INSIDE EDGE OF PAVEMENT
FOR PAVEMENT GRADES & SUPERELEVATION, SEE PAVING GRADES DETAIL

'NB' PI #1
STA: 31+15.00
X: 561712.637
Y: 334862.408

'NB'PI # 2
PI STA: 37+00.98
X: 561920.011
Y: 335410.464
DELTA: -2°49'56.90"
DEG: 4°29'37.63"
L: 63.03'
T: 31.52'
R: 1275.00'
PC STA: 36+69.46
PT STA: 37+32.49

'NB'PI # 3
PI STA: 39+09.33
X: 561982.425
Y: 335609.255
DELTA: -7°07'04.86"
DEG: 2°45'44.78"
L: 257.67'
T: 129.00'
R: 2074.10'
PC STA: 37+80.33
PT STA: 40+38.00

'NB'PI # 4
PI STA: 42+13.93
X: 562028.598
Y: 335910.606
DELTA: -19°48'14.51"
DEG: 7°37'08.83"
L: 259.93'
T: 131.27'
R: 752.00'
PC STA: 40+82.66
PT STA: 43+42.58

'NB'PI # 5
PI STA: 44+94.48
X: 561967.924
Y: 336187.196
DELTA: 45°14'17.91"
DEG: 53°03'05.93"
L: 85.27'
T: 45.00'
R: 108.00'
PC STA: 44+49.48
PT STA: 55+04.68(2)

'NB' PI #6
STA: 31+15.00
X: 561712.637
Y: 334862.408

'NB' PI #7
STA: 31+15.00
X: 561712.637
Y: 334862.408

STA BACK: 45+34.75
STA AHEAD: 55+04.68(2)

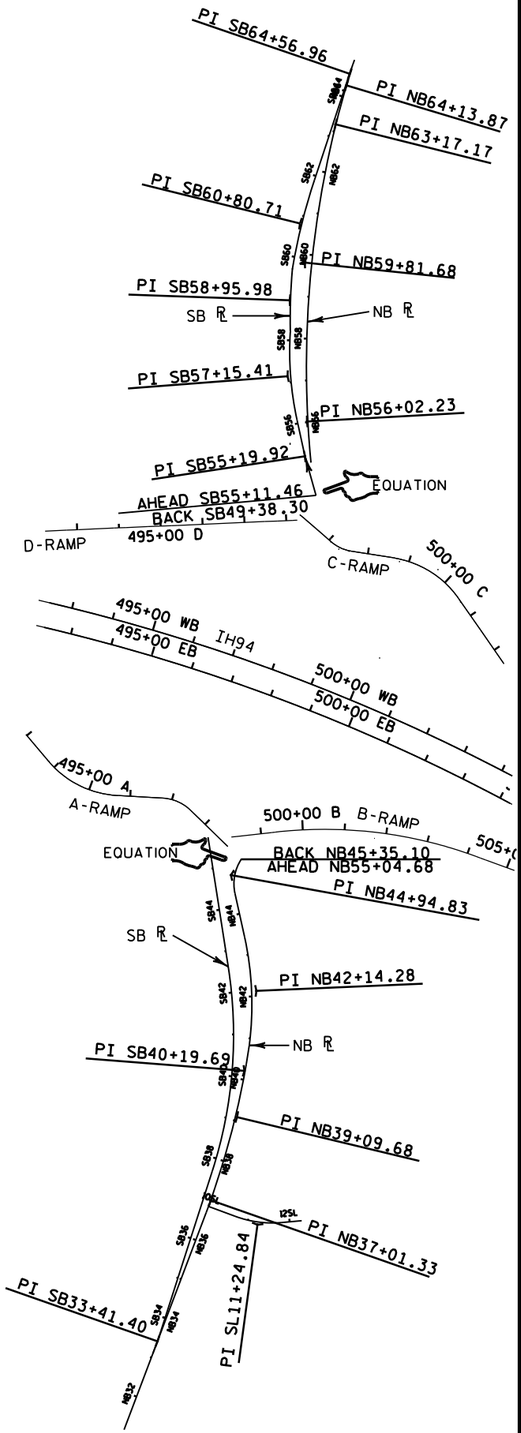
EQUATION

'NB'PI # 8
PI STA: 56+02.23(2)
X: 562149.612
Y: 337270.590
DELTA: 4°36'10.17"
DEG: 2°21'37.64"
L: 195.00'
T: 97.55'
R: 2427.32'
PC STA: 55+04.68(2)
PT STA: 56+99.68(2)

'NB'PI # 9
PI STA: 59+81.68(2)
X: 562144.513
Y: 337650.112
DELTA: 13°15'13.67"
DEG: 2°21'37.64"
L: 561.49'
T: 282.01'
R: 2427.32'
PC STA: 56+99.68(2)
PT STA: 62+61.17(2)

'NB'PI # 10
PI STA: 63+17.17(2)
X: 562217.578
Y: 337980.124
DELTA: 3°09'58.30"
DEG: 2°49'39.84"
L: 111.97'
T: 56.00'
R: 2026.21'
PC STA: 62+61.17(2)
PT STA: 63+73.14(2)

'NB'PI # 11
PI STA: 64+13.87(2)
X: 562243.672
Y: 338073.268
DELTA: 2°18'11.48"
DEG: 2°49'39.84"
L: 81.45'
T: 40.73'
R: 2026.21'
PC STA: 63+73.14(2)
PT STA: 64+54.59(2)



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	STH 65 NORTHBOUND & SOUTHBOUND ℄ DATA	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\DETAILS\027201_AD.dgn
PLOT DATE : 12/29/2011
PLOT BY : KL Engineering
PLOT NAME :
PLOT SCALE :
WISDOT/CADDS SHEET 42

FILE NAME : G:\STRAND\S10917\DGN\DETAILS\027201_AD.dgn
PLOT DATE : 12/29/2011
PLOT BY : KL Engineering
PLOT NAME :
PLOT SCALE :
WISDOT/CADDS SHEET 42

'S' ℄ TO 'NB' ℄

'NB' ℄		STH 65 'S' ℄	
STATION	ELEV.	STATION	OFFSET
34+25.00	1051.82	34+25.00	0.00
34+50.00	1051.03	34+50.00	0.00
34+75.00	1050.23	34+75.00	0.00
35+00.00	1049.44	35+00.00	0.00
35+25.00	1048.65	35+25.00	0.00
35+50.00	1047.85	35+50.00	0.00
35+75.00	1047.06	35+75.00	0.00
36+00.00	1046.26	36+00.00	0.00
36+25.00	1045.67	36+25.00	0.00
36+50.00	1045.27	36+50.00	0.00
36+75.00	1044.88	36+75.00	0.00
37+00.00	1044.48	37+00.00	0.00
37+25.00	1044.08	37+25.00	0.00
37+50.00	1043.69	37+50.00	0.15
37+75.00	1043.29	37+74.98	0.78
38+00.00	1042.90	37+99.95	1.51
38+25.00	1042.50	38+24.90	2.34
38+50.00	1042.10	38+49.82	3.36
38+75.00	1041.71	38+74.71	4.57
39+00.00	1041.31	38+99.57	5.96
39+25.00	1040.92	39+24.39	7.54
39+50.00	1040.52	39+49.17	9.30
39+75.00	1040.12	39+73.89	11.24
40+00.00	1039.73	39+98.56	13.37
40+25.00	1039.33	40+23.18	15.68
40+50.00	1039.56	40+47.75	17.96
40+75.00	1039.85	40+72.26	20.40
41+00.00	1040.13	40+96.73	22.73
41+25.00	1040.41	41+21.21	24.56
41+50.00	1040.69	41+45.68	26.03
41+75.00	1041.19	41+70.14	27.16
42+00.00	1041.73	41+94.60	27.94
42+25.00	1042.27	42+19.06	28.36
42+50.00	1042.81	42+43.51	28.43
42+75.00	1043.36	42+67.97	28.16
43+00.00	1043.92	42+92.76	27.43
43+25.00	1044.50	43+17.71	25.91
43+50.00	1045.08	43+42.60	23.59
43+75.00	1045.66	43+67.47	21.06
44+00.00	1046.23	43+92.34	18.53
55+25.00 (2)	1038.45	55+25.00	8.98
55+50.00 (2)	1037.48	55+50.02	9.31
55+75.00 (2)	1036.46	55+75.13	9.71
56+00.00 (2)	1035.38	56+00.24	10.07
56+25.00 (2)	1034.28	56+25.36	10.39
56+50.00 (2)	1033.14	56+50.48	10.67
56+75.00 (2)	1032.01	56+75.61	10.92
57+00.00 (2)	1030.87	57+00.74	11.12
57+25.00 (2)	1029.74	57+25.87	11.29
57+50.00 (2)	1028.60	57+51.00	11.42
57+75.00 (2)	1027.46	57+76.14	11.51
58+00.00 (2)	1026.33	58+01.28	11.57
58+25.00 (2)	1025.19	58+26.41	11.58
58+50.00 (2)	1024.06	58+51.55	11.56
58+75.00 (2)	1022.92	58+76.69	11.55
59+00.00 (2)	1021.78	59+01.82	11.40
59+25.00 (2)	1020.65	59+26.95	11.26
59+50.00 (2)	1019.51	59+52.09	11.09
59+75.00 (2)	1018.38	59+77.22	10.87
60+00.00 (2)	1017.24	60+02.34	10.62
60+25.00 (2)	1016.10	60+27.46	10.33
60+50.00 (2)	1014.97	60+52.58	10.00
60+75.00 (2)	1013.83	60+77.69	9.64
61+00.00 (2)	1012.70	61+02.80	9.23
61+25.00 (2)	1011.57	61+27.91	8.79
61+50.00 (2)	1010.45	61+53.00	8.31
61+75.00 (2)	1009.40	61+78.09	7.79
62+00.00 (2)	1008.41	62+03.17	7.24
62+25.00 (2)	1007.48	62+28.25	6.65
62+50.00 (2)	1006.63	62+53.32	6.02
62+75.00 (2)	1005.84	62+78.37	5.36
63+00.00 (2)	1005.11	63+03.43	4.71
63+25.00 (2)	1004.45	63+28.47	4.07
63+50.00 (2)	1003.85	63+53.51	3.45
63+75.00 (2)	1003.32	63+78.53	2.84
64+00.00 (2)	1002.86	64+03.56	2.24
64+25.00 (2)	1002.46	64+28.57	1.66

STH 65 NBRL SUPERELEVATION

STATION	LEFT SLOPE	RIGHT SLOPE	DESCRIPTION
35+38.89	-2.00%	-2.00%	END NC
36+16.00	-2.00%	0.00%	ZERO SUPER
36+57.00	-2.00%	2.00%	REV. CROWN
36+92.00	-4.40%	4.40%	BEGIN FS
40+79.00	-4.40%	4.40%	END 4.4%
41+10.00	-5.50%	5.50%	BEGIN 5.5%
42+98.00	-5.50%	5.50%	END 5.5%
43+88.00	-2.00%	2.00%	REV. CROWN
44+09.50	-1.00%	1.00%	ZERO SUPER
SEE INTERSECTION DETAIL FOR RAB CROSS SLOPES			
55+11.46 (2)	-2.00	-2.00%	END NC
55+66.00 (2)	0.00%	-2.00%	ZERO SUPER
56+21.00 (2)	2.00%	-2.00%	BEGIN FS
58+50.00 (2)	2.00%	-2.00%	END FS
58+98.00 (2)	2.90%	-2.90%	BEGIN FS
62+25.00 (2)	2.90%	-2.90%	END -2.9%
62+50.00 (2)	3.90%	-3.90%	BEGIN -3.9%
63+26.00 (2)	3.90%	-3.90%	END -3.9%
63+69.00 (2)	5.50%	-5.50%	BEGIN -5.5%

'S' ℄ TO 'SB' ℄

'SB' ℄		STH 65 'S' ℄	
STATION	ELEV.	STATION	OFFSET
34+25.00	1051.82	34+24.90	-4.25
34+50.00	1051.03	34+49.87	-5.52
34+75.00	1050.24	34+74.84	-6.79
35+00.00	1049.45	34+99.81	-8.05
35+25.00	1048.65	35+24.78	-9.32
35+50.00	1047.86	35+49.74	-10.59
35+75.00	1047.07	35+74.71	-11.85
36+00.00	1046.27	35+99.68	-13.12
36+25.00	1045.48	36+24.65	-14.38
36+50.00	1044.69	36+49.62	-15.65
36+75.00	1043.90	36+74.65	-16.91
37+00.00	1043.14	36+99.98	-17.83
37+25.00	1042.45	37+25.33	-18.26
37+50.00	1041.82	37+50.69	-18.19
37+75.00	1041.26	37+76.04	-17.64
38+00.00	1040.77	38+01.38	-17.04
38+25.00	1040.34	38+26.71	-16.53
38+50.00	1039.98	38+52.03	-16.11
38+75.00	1039.69	38+77.34	-15.79
39+00.00	1039.46	39+02.65	-15.55
39+25.00	1039.31	39+27.96	-15.41
39+50.00	1039.21	39+53.27	-15.36
39+75.00	1039.18	39+78.57	-15.4
40+00.00	1039.22	40+03.88	-15.54
40+25.00	1039.33	40+29.19	-15.76
40+50.00	1039.50	40+54.50	-16.08
40+75.00	1039.74	40+79.82	-16.49
41+00.00	1040.05	41+05.15	-16.99
41+25.00	1040.42	41+30.48	-17.58
41+50.00	1040.86	41+55.83	-18.26
41+75.00	1041.36	41+81.19	-19.04
42+00.00	1041.93	42+06.56	-19.9
42+25.00	1042.51	42+31.95	-20.86
42+50.00	1043.10	42+57.35	-21.9
42+75.00	1043.69	42+82.68	-22.98
43+00.00	1044.27	43+07.66	-23.98
43+25.00	1044.85	43+32.64	-24.97
43+50.00	1045.43	43+57.62	-25.97
43+75.00	1046.01	43+82.60	-26.97
44+00.00	1046.59	44+07.58	-27.97
55+25.00 (2)	1038.46	55+24.97	-4.43
55+50.00 (2)	1037.49	55+49.78	-7.42
55+75.00 (2)	1036.49	55+74.47	-10.64
56+00.00 (2)	1035.44	55+99.08	-14.14
56+25.00 (2)	1034.36	56+23.63	-17.76
56+50.00 (2)	1033.25	56+48.21	-20.90
56+75.00 (2)	1032.13	56+72.81	-23.52
57+00.00 (2)	1031.02	56+97.44	-25.61
57+25.00 (2)	1029.91	57+22.08	-27.18
57+50.00 (2)	1028.79	57+46.74	-28.23
57+75.00 (2)	1027.68	57+71.40	-28.75
58+00.00 (2)	1026.56	57+96.07	-28.74
58+25.00 (2)	1025.45	58+20.72	-28.53
58+50.00 (2)	1023.22	58+69.98	-30.79
59+00.00 (2)	1022.11	58+94.60	-31.70
59+25.00 (2)	1021.00	59+19.22	-32.45
59+50.00 (2)	1019.88	59+43.83	-33.06
59+75.00 (2)	1018.77	59+68.43	-33.19
60+00.00 (2)	1017.66	59+93.00	-31.51
60+25.00 (2)	1016.55	60+17.58	-29.68
60+50.00 (2)	1015.44	60+42.17	-27.71
60+75.00 (2)	1014.33	60+66.77	-25.59
61+00.00 (2)	1013.21	60+91.39	-23.33
61+25.00 (2)	1012.10	61+16.01	-20.92
61+50.00 (2)	1010.99	61+40.66	-18.37
61+75.00 (2)	1009.93	61+65.31	-15.68
62+00.00 (2)	1008.92	61+89.99	-12.87
62+25.00 (2)	1007.98	62+14.72	-10.28
62+50.00 (2)	1007.10	62+39.51	-7.97
62+75.00 (2)	1006.27	62+64.34	-5.96
63+00.00 (2)	1005.52	62+89.23	-4.24
63+25.00 (2)	1004.82	63+14.14	-2.81
63+50.00 (2)	1004.19	63+39.09	-1.67
63+75.00 (2)	1003.63	63+64.06	-0.83

STH 65 SB ℄ SUPERELEVATION

STATION	LEFT SLOPE	DESCRIPTION
37+23.07	-2.00%	END NC
38+14.14	-5.80%	BEGIN
42+16.12	-5.80%	END
43+07.19	-2.00%	BEGIN NC
44+03.05	-2.00%	END NC
45+92.05	0.00%	ZERO SUPER
47+37.71	1.70%	MANUAL
55+11.46 (2)	0.00%	ZERO SUPER
56+00.00 (2)	2.00%	REVERSE CROWN
56+63.00 (2)	4.00%	BEGIN FS
58+15.00 (2)	4.00%	END 4% FS
58+21.00 (2)	4.10%	BEGIN 4.1%
61+55.00 (2)	4.10%	END 4.1%
61+90.00 (2)	5.03%	BEGIN 5.03%
63+77.00 (2)	5.03%	END 5.03%

DATE 12JAN12 E S T I M A T E O F Q U A N T I T I E S

LINE 1020-07-74

NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0010	108.4300	RBC PROGRESS SCHEDULE	EACH	1.000	1.000
0020	201.0105	CLEARING	STA	94.000	94.000
0030	201.0205	GRUBBING	STA	94.000	94.000
0040	203.0100	REMOVING SMALL PIPE CULVERTS	EACH	7.000	7.000
0050	203.0200	REMOVING OLD STRUCTURE (STATION) 01. 509+00 'EB'	LS	1.000	1.000
0060	203.0200	REMOVING OLD STRUCTURE (STATION) 02. 49+64	LS	1.000	1.000
0070	204.0100	REMOVING PAVEMENT	SY	59,740.000	59,740.000
0080	204.0110	REMOVING ASPHALTIC SURFACE	SY	15,275.000	15,275.000
0090	204.0115	REMOVING ASPHALTIC SURFACE BUTT JOINTS	SY	3,180.000	3,180.000
0100	204.0120	REMOVING ASPHALTIC SURFACE MILLING	SY	18,700.000	18,700.000
0110	204.0130	REMOVING CURB	LF	194.000	194.000
0120	204.0150	REMOVING CURB & GUTTER	LF	4,677.000	4,677.000
0130	204.0155	REMOVING CONCRETE SIDEWALK	SY	67.000	67.000
0140	204.0157	REMOVING CONCRETE BARRIER	LF	360.000	360.000
0150	204.0170	REMOVING FENCE	LF	26,357.000	26,357.000
0160	204.0180	REMOVING DELINEATORS AND MARKERS	EACH	120.000	120.000
0170	204.0190	REMOVING SURFACE DRAINS	EACH	9.000	9.000
0180	204.0195	REMOVING CONCRETE BASES	EACH	6.000	6.000
0190	204.0220	REMOVING INLETS	EACH	20.000	20.000
0200	204.0245	REMOVING STORM SEWER (SIZE) 01. 18-INCH	LF	885.000	885.000
0210	204.0245	REMOVING STORM SEWER (SIZE) 02. 24-INCH	LF	144.000	144.000
0220	204.0245	REMOVING STORM SEWER (SIZE) 03. 30-INCH	LF	400.000	400.000
0230	204.0245	REMOVING STORM SEWER (SIZE) 04. 36-INCH	LF	200.000	200.000
0240	204.9060.S	REMOVING (ITEM DESCRIPTION) 01. REMOVING SIGN COVERS	EACH	7.000	7.000
0250	205.0100	EXCAVATION COMMON	CY	466,313.000	466,313.000
0260	205.0200	EXCAVATION ROCK	CY	179,751.000	179,751.000
0270	206.1000	EXCAVATION FOR STRUCTURES BRIDGES (STRUCTURE) 02. B-55-249	LS	1.000	1.000
0280	206.6000.S	TEMPORARY SHORING	SF	3,020.000	3,020.000
0290	208.0100	BORROW	CY	142,812.000	142,812.000
0300	208.1100	SELECT BORROW	CY	146,041.000	146,041.000
0310	210.0100	BACKFILL STRUCTURE	CY	440.000	440.000
0320	211.0400	PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS	STA	74.000	74.000
0330	213.0100	FINISHING ROADWAY (PROJECT) 01. 1020-07-74	EACH	1.000	1.000
0340	214.0100	OBLITERATING OLD ROAD	STA	31.000	31.000
0350	305.0110	BASE AGGREGATE DENSE 3/4-INCH	TON	10,973.000	10,973.000
0360	305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	210,640.000	210,640.000
0370	415.0410	CONCRETE PAVEMENT APPROACH SLAB	SY	280.000	280.000
0380	440.4410.S	INCENTIVE IRI RIDE	DOL	19,126.000	19,126.000
0390	455.0110	ASPHALTIC MATERIAL PG58-34	TON	819.100	819.100
0400	455.0115	ASPHALTIC MATERIAL PG64-22	TON	275.000	275.000
0410	455.0605	TACK COAT	GAL	5,345.000	5,345.000
0420	460.1100	HMA PAVEMENT TYPE E-0.3	TON	4,499.000	4,499.000
0430	460.1103	HMA PAVEMENT TYPE E-3	TON	115.000	115.000
0440	460.1110	HMA PAVEMENT TYPE E-10	TON	15,412.000	15,412.000
0450	460.2000	INCENTIVE DENSITY HMA PAVEMENT	DOL	12,810.000	12,810.000
0460	460.4100.S	REHEATING HMA LONGITUDINAL JOINTS	STA	40.000	40.000
0470	465.0105	ASPHALTIC SURFACE	TON	2,120.000	2,120.000
0480	465.0125	ASPHALTIC SURFACE TEMPORARY	TON	34,000.000	34,000.000
0490	465.0315	ASPHALTIC FLUMES	SY	81.000	81.000

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DATE 12JAN12 E S T I M A T E O F Q U A N T I T I E S

LINE 1020-07-74

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0500	465.0400	ASPHALTIC SHOULDER RUMBLE STRIP	LF	56,870.000	56,870.000
0510	502.0100	CONCRETE MASONRY BRIDGES	CY	814.000	814.000
0520	502.3200	PROTECTIVE SURFACE TREATMENT	SY	1,839.000	1,839.000
0530	503.0137	PRESTRESSED GIRDER TYPE I 36W-INCH	LF	2,505.000	2,505.000
0540	504.0500	CONCRETE MASONRY RETAINING WALLS	CY	75.000	75.000
0550	504.0900	CONCRETE MASONRY ENDWALLS	CY	12.500	12.500
0560	505.0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB	17,580.000	17,580.000
0570	505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	142,510.000	142,510.000
0580	505.0615	BAR STEEL REINFORCEMENT HS COATED RETAINING WALLS	LB	8,600.000	8,600.000
0590	505.0904	BAR COUPLERS NO. 4	EACH	18.000	18.000
0600	505.0905	BAR COUPLERS NO. 5	EACH	8.000	8.000
0610	505.0906	BAR COUPLERS NO. 6	EACH	50.000	50.000
0620	505.0909	BAR COUPLERS NO. 9	EACH	9.000	9.000
0630	505.0910	BAR COUPLERS NO. 10	EACH	11.000	11.000
0640	506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	48.000	48.000
0650	506.4000	STEEL DIAPHRAGMS (STRUCTURE) 01. B-55-249	EACH	44.000	44.000
0660	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	34.000	34.000
0670	517.1010.S	CONCRETE STAINING (STRUCTURE) 01. B-55-249	SF	7,870.000	7,870.000
0680	517.1010.S	CONCRETE STAINING (STRUCTURE) 02. R-55-15	SF	2,960.000	2,960.000
0690	517.1010.S	CONCRETE STAINING (STRUCTURE) 03. R-55-16	SF	2,550.000	2,550.000
0700	520.0118	CULVERT PIPE CLASS III 18-INCH	LF	139.000	139.000
0710	520.1018	APRON ENDWALLS FOR CULVERT PIPE 18-INCH	EACH	5.000	5.000
0720	520.1024	APRON ENDWALLS FOR CULVERT PIPE 24-INCH	EACH	2.000	2.000
0730	520.4018	CULVERT PIPE TEMPORARY 18-INCH	LF	315.000	315.000
0740	520.4024	CULVERT PIPE TEMPORARY 24-INCH	LF	1,006.000	1,006.000
0750	520.4030	CULVERT PIPE TEMPORARY 30-INCH	LF	42.000	42.000
0760	520.4048	CULVERT PIPE TEMPORARY 48-INCH	LF	30.000	30.000
0770	520.8000.S	CULVERT PIPE CONCRETE COLLAR	EACH	16.000	16.000
0780	522.0118	CULVERT PIPE REINFORCED CONCRETE CLASS III 18-INCH	LF	18.000	18.000
0790	522.0124	CULVERT PIPE REINFORCED CONCRETE CLASS III 24-INCH	LF	861.000	861.000
0800	522.0130	CULVERT PIPE REINFORCED CONCRETE CLASS III 30-INCH	LF	896.000	896.000
0810	522.0136	CULVERT PIPE REINFORCED CONCRETE CLASS III 36-INCH	LF	600.000	600.000
0820	522.0148	CULVERT PIPE REINFORCED CONCRETE CLASS III 48-INCH	LF	8.000	8.000
0830	522.0160	CULVERT PIPE REINFORCED CONCRETE CLASS III 60-INCH	LF	163.000	163.000
0840	522.1012	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 12-INCH	EACH	11.000	11.000
0850	522.1015	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 15-INCH	EACH	1.000	1.000
0860	522.1018	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH	EACH	1.000	1.000
0870	522.1024	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH	EACH	9.000	9.000
0880	522.1030	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH	EACH	11.000	11.000

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DATE 12JAN12 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1020-07-74 QUANTITY
0890	522.1036	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 36-INCH	EACH	8.000	8.000
0900	522.1048	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 48-INCH	EACH	1.000	1.000
0910	522.1060	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 60-INCH	EACH	2.000	2.000
0920	523.0119	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 19X30-INCH	LF	100.000	100.000
0930	523.0124	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 24X38-INCH	LF	90.000	90.000
0940	523.0138	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 38X60-INCH	LF	789.000	789.000
0950	523.0429	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 29X45-INCH	LF	321.000	321.000
0960	523.0519	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 19X30-INCH	EACH	1.000	1.000
0970	523.0524	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 24X38-INCH	EACH	1.000	1.000
0980	523.0529	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 29X45-INCH	EACH	4.000	4.000
0990	524.0618	APRON ENDWALLS FOR CULVERT PIPE SALVAGED 18-INCH	EACH	4.000	4.000
1000	524.0624	APRON ENDWALLS FOR CULVERT PIPE SALVAGED 24-INCH	EACH	2.000	2.000
1010	532.0500.S	WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH	SF	4,930.000	4,930.000
1020	532.0750.S	TEMPORARY WALL WIRE FACED MECHANICALLY STABILIZED EARTH	SF	2,000.000	2,000.000
1030	550.1100.S	PILING STEEL HP 10-INCH X 42 LB	LF	2,190.000	2,190.000
1040	601.0105	CONCRETE CURB TYPE A	LF	664.000	664.000
1050	601.0115	CONCRETE CURB TYPE G	LF	60.000	60.000
1060	601.0409	CONCRETE CURB & GUTTER 30-INCH TYPE A	LF	5,356.000	5,356.000
1070	601.0411	CONCRETE CURB & GUTTER 30-INCH TYPE D	LF	489.000	489.000
1080	601.0551	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A	LF	1,912.000	1,912.000
1090	601.0555	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE A	LF	173.000	173.000
1100	601.0557	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	LF	117.000	117.000
1110	601.0580	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R	LF	808.000	808.000
1120	602.0405	CONCRETE SIDEWALK 4-INCH	SF	1,775.000	1,775.000
1130	602.0505	CURB RAMP DETECTABLE WARNING FIELD YELLOW	SF	8.000	8.000
1140	603.8000	CONCRETE BARRIER TEMPORARY PRECAST DELIVERED	LF	71,616.000	71,616.000
1150	603.8125	CONCRETE BARRIER TEMPORARY PRECAST INSTALLED	LF	77,616.000	77,616.000
1160	604.0400	SLOPE PAVING CONCRETE	SY	30.000	30.000
1170	604.0500	SLOPE PAVING CRUSHED AGGREGATE	SY	286.000	286.000
1180	606.0200	RIPRAP MEDIUM	CY	1,046.000	1,046.000

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DATE 12JAN12 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1020-07-74 QUANTITY
1190	606.0300	RIPRAP HEAVY	CY	390.000	390.000
1200	608.0312	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH	LF	1,180.000	1,180.000
1210	608.0315	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 15-INCH	LF	121.000	121.000
1220	611.0201	MANHOLES TYPE 1	EACH	1.000	1.000
1230	611.0302	INLETS TYPE 2	EACH	4.000	4.000
1240	611.0303	INLETS TYPE 3	EACH	34.000	34.000
1250	611.0305	INLETS TYPE 8	EACH	5.000	5.000
1260	611.0307	INLETS TYPE 9	EACH	7.000	7.000
1270	611.0430	RECONSTRUCTING INLETS	EACH	3.000	3.000
1280	611.0530	MANHOLE COVERS TYPE J	EACH	1.000	1.000
1290	611.0624	INLET COVERS TYPE H	EACH	20.000	20.000
1300	611.0627	INLET COVERS TYPE HM	EACH	8.000	8.000
1310	611.0636	INLET COVERS TYPE HM-S	EACH	4.000	4.000
1320	611.0639	INLET COVERS TYPE H-S	EACH	2.000	2.000
1330	611.0642	INLET COVERS TYPE MS	EACH	19.000	19.000
1340	611.0652	INLET COVERS TYPE T	EACH	4.000	4.000
1350	611.8120.S	COVER PLATES TEMPORARY	EACH	53.000	53.000
1360	611.9800.S	PIPE GRATES	EACH	8.000	8.000
1370	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	450.000	450.000
1380	614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	4.000	4.000
1390	614.0220	STEEL THRIE BEAM BULLNOSE TERMINAL	EACH	2.000	2.000
1400	614.0230	STEEL THRIE BEAM	LF	150.000	150.000
1410	614.0305	STEEL PLATE BEAM GUARD CLASS A	LF	450.000	450.000
1420	614.0370	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL	EACH	2.000	2.000
1430	614.0395	GUARDRAIL MOW STRIP CONCRETE	SY	600.000	600.000
1440	614.0905	CRASH CUSHIONS TEMPORARY	EACH	53.000	53.000
1450	614.0920	SALVAGED RAIL	LF	8,610.000	8,610.000
1460	614.2300	MGS GUARDRAIL 3	LF	288.000	288.000
1470	614.2500	MGS THRIE BEAM TRANSITION	LF	80.000	80.000
1480	614.2610	MGS GUARDRAIL TERMINAL EAT	EACH	7.000	7.000
1490	614.2620	MGS GUARDRAIL TERMINAL TYPE 2	EACH	5.000	5.000
1500	616.0100	FENCE WOVEN WIRE (HEIGHT) 01. 4.5-FEET	LF	24,780.000	24,780.000
1510	619.1000	MOBILIZATION	EACH	1.000	1.000
1520	620.0300	CONCRETE MEDIAN SLOPED NOSE	SF	787.000	787.000
1530	624.0100	WATER	MGAL	2,175.300	2,175.300
1540	625.0500	SALVAGED TOPSOIL	SY	265,000.000	265,000.000
1550	627.0200	MULCHING	SY	211,420.000	211,420.000
1560	628.1504	SILT FENCE	LF	8,353.000	8,353.000
1570	628.1520	SILT FENCE MAINTENANCE	LF	8,353.000	8,353.000
1580	628.1905	MOBILIZATIONS EROSION CONTROL	EACH	16.000	16.000
1590	628.1910	MOBILIZATIONS EMERGENCY EROSION CONTROL	EACH	21.000	21.000
1600	628.2004	EROSION MAT CLASS I TYPE B	SY	260,660.000	260,660.000
1610	628.2037	EROSION MAT CLASS III TYPE C	SY	2,297.000	2,297.000
1620	628.6510	SOIL STABILIZER TYPE B	ACRE	5.000	5.000
1630	628.7005	INLET PROTECTION TYPE A	EACH	75.000	75.000
1640	628.7010	INLET PROTECTION TYPE B	EACH	3.000	3.000
1650	628.7015	INLET PROTECTION TYPE C	EACH	44.000	44.000
1660	628.7504	TEMPORARY DITCH CHECKS	LF	424.000	424.000
1670	628.7555	CULVERT PIPE CHECKS	EACH	225.000	225.000
1680	628.7560.S	STONE OR ROCK DITCH CHECKS	CY	70.000	70.000

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LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1020-07-74 QUANTITY
1690	629.0210	FERTILIZER TYPE B	CWT	210.000	210.000
1700	630.0130	SEEDING MIXTURE NO. 30	LB	8,910.000	8,910.000
1710	630.0200	SEEDING TEMPORARY	LB	12,760.000	12,760.000
1720	630.0300	SEEDING BORROW PIT	LB	1,000.000	1,000.000
1730	633.0100	DELINEATOR POSTS STEEL	EACH	183.000	183.000
1740	633.0500	DELINEATOR REFLECTORS	EACH	252.000	252.000
1750	633.1100	DELINEATORS TEMPORARY	EACH	245.000	245.000
1760	633.5200	MARKERS CULVERT END	EACH	34.000	34.000
1770	634.0612	POSTS WOOD 4X6-INCH X 12-FT	EACH	20.000	20.000
1780	634.0614	POSTS WOOD 4X6-INCH X 14-FT	EACH	17.000	17.000
1790	634.0616	POSTS WOOD 4X6-INCH X 16-FT	EACH	46.000	46.000
1800	634.0618	POSTS WOOD 4X6-INCH X 18-FT	EACH	23.000	23.000
1810	634.0620	POSTS WOOD 4X6-INCH X 20-FT	EACH	26.000	26.000
1820	634.0622	POSTS WOOD 4X6-INCH X 22-FT	EACH	15.000	15.000
1830	634.0810	POSTS TUBULAR STEEL 2X2-INCH X 10-FT	EACH	4.000	4.000
1840	634.0811	POSTS TUBULAR STEEL 2X2-INCH X 11-FT	EACH	3.000	3.000
1850	634.0812	POSTS TUBULAR STEEL 2X2-INCH X 12-FT	EACH	2.000	2.000
1860	634.0885	POSTS TUBULAR STEEL 2X2-INCH X 8.5-FT	EACH	2.000	2.000
1870	635.0200	SIGN SUPPORTS STRUCTURAL STEEL HS	LB	9,149.800	9,149.800
1880	636.0100	SIGN SUPPORTS CONCRETE MASONRY	CY	15.600	15.600
1890	636.0500	SIGN SUPPORTS STEEL REINFORCEMENT	LB	922.000	922.000
1900	637.0101	SIGNS TYPE I	SF	2,973.500	2,973.500
1910	637.0103	SIGNS TYPE III	SF	480.250	480.250
1920	637.0202	SIGNS REFLECTIVE TYPE II	SF	1,452.090	1,452.090
1930	638.2102	MOVING SIGNS TYPE II	EACH	100.000	100.000
1940	638.2103	MOVING SIGNS TYPE III	EACH	14.000	14.000
1950	638.2601	REMOVING SIGNS TYPE I	EACH	13.000	13.000
1960	638.2602	REMOVING SIGNS TYPE II	EACH	154.000	154.000
1970	638.3000	REMOVING SMALL SIGN SUPPORTS	EACH	125.000	125.000
1980	638.3100	REMOVING STRUCTURAL STEEL SIGN SUPPORTS	EACH	14.000	14.000
1990	638.4000	MOVING SMALL SIGN SUPPORTS	EACH	113.000	113.000
2000	641.8100	OVERHEAD SIGN SUPPORT (STRUCTURE) 01. S-55-0044	LS	1.000	1.000
2010	641.8100	OVERHEAD SIGN SUPPORT (STRUCTURE) 02. S-55-0045	LS	1.000	1.000
2020	641.8100	OVERHEAD SIGN SUPPORT (STRUCTURE) 03. S-55-0046	LS	1.000	1.000
2030	641.8100	OVERHEAD SIGN SUPPORT (STRUCTURE) 04. S-55-0047	LS	1.000	1.000
2040	641.8100	OVERHEAD SIGN SUPPORT (STRUCTURE) 05. S-55-0048	LS	1.000	1.000
2050	642.5201	FIELD OFFICE TYPE C	EACH	1.000	1.000
2060	643.0200	TRAFFIC CONTROL SURVEILLANCE AND MAINTENANCE (PROJECT) 01. 1020-07-74	DAY	455.000	455.000
2070	643.0300	TRAFFIC CONTROL DRUMS	DAY	295,170.000	295,170.000
2080	643.0420	TRAFFIC CONTROL BARRICADES TYPE III	DAY	51,690.000	51,690.000
2090	643.0500	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS	EACH	120.000	120.000
2100	643.0600	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES	EACH	120.000	120.000
2110	643.0705	TRAFFIC CONTROL WARNING LIGHTS TYPE A	DAY	103,380.000	103,380.000
2120	643.0715	TRAFFIC CONTROL WARNING LIGHTS TYPE C	DAY	60,139.000	60,139.000
2130	643.0800	TRAFFIC CONTROL ARROW BOARDS	DAY	890.000	890.000
2140	643.0900	TRAFFIC CONTROL SIGNS	DAY	56,740.000	56,740.000
2150	643.1050	TRAFFIC CONTROL SIGNS PCMS	DAY	1,834.000	1,834.000

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LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1020-07-74 QUANTITY
2160	643.2000	TRAFFIC CONTROL DETOUR (PROJECT) 01. 1020-07-74	EACH	1.000	1.000
2170	643.3000	TRAFFIC CONTROL DETOUR SIGNS	DAY	840.000	840.000
2180	645.0120	GEOTEXTILE FABRIC TYPE HR	SY	3,775.000	3,775.000
2190	646.0106	PAVEMENT MARKING EPOXY 4-INCH	LF	76,028.000	76,028.000
2200	646.0126	PAVEMENT MARKING EPOXY 8-INCH	LF	2,570.000	2,570.000
2210	646.0406	PAVEMENT MARKING SAME DAY EPOXY 4-INCH	LF	18,900.000	18,900.000
2220	646.0600	REMOVING PAVEMENT MARKINGS	LF	275,530.000	275,530.000
2230	646.0841.S	PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 4-INCH	LF	505.000	505.000
2240	646.0843.S	PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH	LF	4,085.000	4,085.000
2250	647.0146	PAVEMENT MARKING ARROWS EPOXY TYPE 6	EACH	2.000	2.000
2260	647.0156	PAVEMENT MARKING ARROWS EPOXY TYPE 1	EACH	9.000	9.000
2270	647.0160	PAVEMENT MARKING ARROWS EPOXY TYPE 2R	EACH	4.000	4.000
2280	647.0166	PAVEMENT MARKING ARROWS EPOXY TYPE 2	EACH	7.000	7.000
2290	647.0170	PAVEMENT MARKING ARROWS EPOXY TYPE 3R	EACH	3.000	3.000
2300	647.0176	PAVEMENT MARKING ARROWS EPOXY TYPE 3	EACH	5.000	5.000
2310	647.0256	PAVEMENT MARKING SYMBOLS EPOXY	EACH	5.000	5.000
2320	647.0356	PAVEMENT MARKING WORDS EPOXY	EACH	7.000	7.000
2330	647.0456	PAVEMENT MARKING CURB EPOXY	LF	40.000	40.000
2340	647.0606	PAVEMENT MARKING ISLAND NOSE EPOXY	EACH	5.000	5.000
2350	647.0656	PAVEMENT MARKING PARKING STALL EPOXY	LF	2,629.000	2,629.000
2360	647.0716	PAVEMENT MARKING DIAGONAL EPOXY 8-INCH	LF	140.000	140.000
2370	647.0726	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH	LF	478.000	478.000
2380	647.0746	PAVEMENT MARKING DIAGONAL EPOXY 24-INCH	LF	73.000	73.000
2390	649.0100	TEMPORARY PAVEMENT MARKING 4-INCH	LF	259,248.000	259,248.000
2400	649.0400	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH	LF	2,400.000	2,400.000
2410	649.0701	TEMPORARY PAVEMENT MARKING 8-INCH	LF	21,900.000	21,900.000
2420	649.1200	TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH	LF	625.000	625.000
2430	649.1500	TEMPORARY PAVEMENT MARKING DIAGONAL 12-INCH	LF	400.000	400.000
2440	649.1800	TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE	EACH	10.000	10.000
2450	650.4000	CONSTRUCTION STAKING STORM SEWER	EACH	52.000	52.000
2460	650.4500	CONSTRUCTION STAKING SUBGRADE	LF	45,053.000	45,053.000
2470	650.5000	CONSTRUCTION STAKING BASE	LF	13,878.000	13,878.000
2480	650.5500	CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER	LF	539.000	539.000
2490	650.6000	CONSTRUCTION STAKING PIPE CULVERTS	EACH	56.000	56.000
2500	650.6500	CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) 01. B-55-249	LS	1.000	1.000
2510	650.6500	CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) 02. R-55-15	LS	1.000	1.000
2520	650.6500	CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) 03. R-55-16	LS	1.000	1.000
2530	650.7000	CONSTRUCTION STAKING CONCRETE PAVEMENT	LF	35,799.000	35,799.000
2540	650.8500	CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (PROJECT) 01. 1020-07-74	LS	1.000	1.000
2550	650.9910	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 01. 1020-07-74	LS	1.000	1.000
2560	650.9920	CONSTRUCTION STAKING SLOPE STAKES	LF	34,483.000	34,483.000
2570	652.0125	CONDUIT RIGID METALLIC 2-INCH	LF	662.000	662.000

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LINE 1020-07-74

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
2580	652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	LF	10,545.000	10,545.000
2590	652.0235	CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH	LF	385.000	385.000
2600	653.0135	PULL BOXES STEEL 24X36-INCH	EACH	11.000	11.000
2610	653.0140	PULL BOXES STEEL 24X42-INCH	EACH	27.000	27.000
2620	653.0222	JUNCTION BOXES 18X12X6-INCH	EACH	2.000	2.000
2630	653.0905	REMOVING PULL BOXES	EACH	2.000	2.000
2640	654.0105	CONCRETE BASES TYPE 5	EACH	4.000	4.000
2650	654.0106	CONCRETE BASES TYPE 6	EACH	40.000	40.000
2660	654.0217	CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL	EACH	1.000	1.000
2670	654.0220	CONCRETE CONTROL CABINET BASES TYPE 10	EACH	1.000	1.000
2680	655.0305	CABLE TYPE UF 2-12 AWG GROUNDED	LF	1,805.000	1,805.000
2690	655.0610	ELECTRICAL WIRE LIGHTING 12 AWG	LF	8,638.000	8,638.000
2700	655.0615	ELECTRICAL WIRE LIGHTING 10 AWG	LF	65.000	65.000
2710	655.0620	ELECTRICAL WIRE LIGHTING 8 AWG	LF	3,794.000	3,794.000
2720	655.0625	ELECTRICAL WIRE LIGHTING 6 AWG	LF	195.000	195.000
2730	655.0630	ELECTRICAL WIRE LIGHTING 4 AWG	LF	35,320.000	35,320.000
2740	656.0200	ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) 01. CB 100	LS	1.000	1.000
2750	656.0200	ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) 02. CB 200	LS	1.000	1.000
2760	657.0100	PEDESTAL BASES	EACH	1.000	1.000
2770	657.0255	TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE	EACH	44.000	44.000
2780	657.0321	POLES TYPE 5-STEEL	EACH	1.000	1.000
2790	657.0322	POLES TYPE 5-ALUMINUM	EACH	7.000	7.000
2800	657.0327	POLES TYPE 6-ALUMINUM	EACH	42.000	42.000
2810	657.0405	TRAFFIC SIGNAL STANDARDS ALUMINUM 3.5-FT	EACH	1.000	1.000
2820	657.0710	LUMINAIRE ARMS TRUSS TYPE 4 1/2-INCH CLAMP 12-FT	EACH	12.000	12.000
2830	657.0715	LUMINAIRE ARMS TRUSS TYPE 4 1/2-INCH CLAMP 15-FT	EACH	43.000	43.000
2840	657.6005.S	ANCHOR ASSEMBLIES LIGHT POLES ON STRUCTURES	EACH	2.000	2.000
2850	659.0115	LUMINAIRES UTILITY HPS 150 WATTS	EACH	30.000	30.000
2860	659.0125	LUMINAIRES UTILITY HPS 250 WATTS	EACH	25.000	25.000
2870	659.0802	PLAQUES SEQUENCE IDENTIFICATION	EACH	1.000	1.000
2880	661.0200	TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS (LOCATION) 01. EXISTING 'A'/'B' RAMP	LS	1.000	1.000
2890	670.0100	FIELD SYSTEM INTEGRATOR	LS	1.000	1.000
2900	670.0200	ITS DOCUMENTATION	LS	1.000	1.000
2910	671.0300	FIBER OPTIC CABLE MARKER	EACH	7.000	7.000
2920	672.0250	BASE CAMERA POLE 50-FT	EACH	1.000	1.000
2930	673.0225.S	INSTALL POLE MOUNTED CABINET	EACH	1.000	1.000
2940	674.0200	CABLE MICROWAVE DETECTOR	LF	190.000	190.000
2950	674.0300	REMOVE CABLE	LF	380.000	380.000
2960	675.0300	INSTALL MOUNTED CONTROLLER MICROWAVE DETECTOR ASSEMBLY	EACH	1.000	1.000
2970	675.0400.S	INSTALL ETHERNET SWITCH	EACH	1.000	1.000
2980	677.0100	INSTALL CAMERA POLE	EACH	1.000	1.000
2990	677.0200	INSTALL CAMERA ASSEMBLY	EACH	1.000	1.000
3000	677.0300.S	INSTALL VIDEO ENCODER	EACH	1.000	1.000

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LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1020-07-74 QUANTITY
3010	677.9200.S	REMOVING CCTV CAMERA	EACH	1.000	1.000
3020	678.0006	INSTALL FIBER OPTIC CABLE OUTDOOR PLANT 6-CT	LF	1,255.000	1,255.000
3030	678.0300	FIBER OPTIC SPLICE	EACH	6.000	6.000
3040	678.0400	FIBER OPTIC TERMINATION	EACH	6.000	6.000
3050	678.0500	COMMUNICATION SYSTEM TESTING	LS	1.000	1.000
3060	690.0150	SAWING ASPHALT	LF	59,165.000	59,165.000
3070	690.0250	SAWING CONCRETE	LF	700.000	700.000
3080	715.0415	INCENTIVE STRENGTH CONCRETE PAVEMENT	DOL	29,669.000	29,669.000
3090	715.0502	INCENTIVE STRENGTH CONCRETE STRUCTURES	DOL	4,900.000	4,900.000
3100	ASP.1T0A	ON-THE-JOB TRAINING APPRENTICE AT $5.00/HR	HRS	2,100.000	2,100.000
3110	ASP.1T0G	ON-THE-JOB TRAINING GRADUATE AT $5.00/HR	HRS	2,400.000	2,400.000
3120	SPV.0035	SPECIAL 01. ABANDONING CULVERT PIPE SPECIAL	CY	160.000	160.000
3130	SPV.0060	SPECIAL 01. SEALING INLETS	EACH	1.000	1.000
3140	SPV.0060	SPECIAL 02. LIGHTING CONTROL CABINET TYPE A	EACH	1.000	1.000
3150	SPV.0060	SPECIAL 03. LIGHTING CONTROL CABINET TYPE B	EACH	1.000	1.000
3160	SPV.0060	SPECIAL 04. CONCRETE BASES TYPE 5 BUMPER TYPE	EACH	7.000	7.000
3170	SPV.0060	SPECIAL 05. PAVEMENT MARKING GROOVED THERMOPLASTIC ARROWS, TYPE 1	EACH	6.000	6.000
3180	SPV.0060	SPECIAL 06. PAVEMENT MARKING GROOVED THERMOPLASTIC ARROWS, TYPE 2	EACH	2.000	2.000
3190	SPV.0060	SPECIAL 07. PAVEMENT MARKING GROOVED THERMOPLASTIC ARROWS, TYPE 3	EACH	3.000	3.000
3200	SPV.0060	SPECIAL 08. PAVEMENT MARKING GROOVED THERMOPLASTIC GROOVED WORDS	EACH	12.000	12.000
3210	SPV.0060	SPECIAL 09. TEMPORARY INLET CASTING R-3227	EACH	2.000	2.000
3220	SPV.0060	SPECIAL 10. TEMPORARY INLET CASTING R-3403	EACH	1.000	1.000
3230	SPV.0060	SPECIAL 11. ANCHOR BOLT ASSEMBLY	EACH	2.000	2.000
3240	SPV.0060	SPECIAL 12. TRAFFIC CONTROL VERTICAL PANELS	EACH	793.000	793.000
3250	SPV.0060	SPECIAL 50. REMOVING POLE-MOUNT CABINET	EACH	1.000	1.000
3260	SPV.0060	SPECIAL 51. REMOVING ETHERNET SWITCH	EACH	1.000	1.000
3270	SPV.0060	SPECIAL 52. REMOVING VIDEO ENCODER	EACH	1.000	1.000
3280	SPV.0060	SPECIAL 53. REMOVING WIRELESS ETHERNET BRIDGE	EACH	2.000	2.000
3290	SPV.0060	SPECIAL 54. REMOVING TEMPORARY CAMERA POLE	EACH	1.000	1.000
3300	SPV.0060	SPECIAL 55. GROUND ROD	EACH	5.000	5.000
3310	SPV.0060	SPECIAL 56. RAMP CLOSURE GATE FLASHERS STOCKPILE	EACH	1.000	1.000
3320	SPV.0060	SPECIAL 57. RAMP CLOSURE GATES HARDWIRED 32-FEET	EACH	3.000	3.000
3330	SPV.0060	SPECIAL 58. RAMP CLOSURE GATE ARMS STOCKPILE 32-FEET	EACH	1.000	1.000
3340	SPV.0090	SPECIAL 01. CURE AND SEAL TREATMENT CONCRETE CURB AND GUTTER	LF	8,943.000	8,943.000
3350	SPV.0090	SPECIAL 02. BORE AND JACK STORM SEWER PIPE REINFORCED CONCRETE CLASS V 30-INCH	LF	600.000	600.000
3360	SPV.0090	SPECIAL 03. BORE AND JACK STORM SEWER PIPE REINFORCED CONCRETE CLASS V 36-INCH	LF	325.000	325.000

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LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1020-07-74 QUANTITY
3370	SPV.0090	SPECIAL 04. REMOVING PAVED DITCH	LF	1,331.000	1,331.000
3380	SPV.0090	SPECIAL 05. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC 4-INCH	LF	20.000	20.000
3390	SPV.0090	SPECIAL 06. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC 8-INCH	LF	475.000	475.000
3400	SPV.0090	SPECIAL 07. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC 18-INCH	LF	175.000	175.000
3410	SPV.0090	SPECIAL 08. CURE AND SEAL TREATMENT CONCRETE CURB	LF	724.000	724.000
3420	SPV.0090	SPECIAL 13. CONCRETE CURB AND GUTTER 32-INCH SPECIAL	LF	88.000	88.000
3430	SPV.0105	SPECIAL 01. CONCRETE PAVEMENT JOINT LAYOUT	LS	1.000	1.000
3440	SPV.0105	SPECIAL 02. PROJECT CONCRETE CRACK MITIGATION AND REPAIR	LS	1.000	1.000
3450	SPV.0105	SPECIAL 03. TEMPORARY STREET LIGHTING	LS	1.000	1.000
3460	SPV.0105	SPECIAL 04. CONSTRUCTION STAKING CONCRETE ROUNDABOUT	LS	1.000	1.000
3470	SPV.0165	SPECIAL 01. COLORED CONCRETE SIDEWALK 4-INCH	SF	5,000.000	5,000.000
3480	SPV.0165	SPECIAL 03. CURE AND SEAL TREATMENT CONCRETE SIDEWALK	SF	1,775.000	1,775.000
3490	SPV.0165	SPECIAL 03. CURE AND SEAL TREATMENT CONCRETE SIDEWALK	SF	300.000	300.000
3500	SPV.0165	SPECIAL 04. CURE AND SEAL TREATMENT CONCRETE MEDIAN SLOPED NOSE	SF	787.000	787.000
3510	SPV.0170	SPECIAL 01. SCARIFY AND COMPACT	STA	51.000	51.000
3520	SPV.0180	SPECIAL 01. TRUCK APRON COLORED CONCRETE PAVEMENT 10-INCH	SY	2,255.000	2,255.000
3530	SPV.0180	SPECIAL 02. CONCRETE PAVEMENT 8-INCH SPECIAL	SY	4,665.000	4,665.000
3540	SPV.0180	SPECIAL 03. CONCRETE PAVEMENT 10-INCH SPECIAL	SY	20,245.000	20,245.000
3550	SPV.0180	SPECIAL 04. CONCRETE PAVEMENT 13-INCH SPECIAL	SY	71,160.000	71,160.000
3560	SPV.0180	SPECIAL 05. CONCRETE PAVEMENT HES 8-INCH SPECIAL	SY	950.000	950.000
3570	SPV.0180	SPECIAL 06. CONCRETE PAVEMENT HES 10-INCH SPECIAL	SY	980.000	980.000
3580	SPV.0180	SPECIAL 07. CONCRETE PAVEMENT HES 13-INCH SPECIAL	SY	615.000	615.000
3590	SPV.0195	SPECIAL 01. ASPHALTIC SURFACE SPECIAL	TON	4,400.000	4,400.000
3600	SPV.0195	SPECIAL 02. ASPHALTIC SURFACE PATCHING SPECIAL	TON	200.000	200.000

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RBC PROGRESS SCHEDULE

CATEGORY	108.4300 EACH
0010	1

REMOVING OLD STRUCTURE

CATEGORY	STATION	203.0200 LS	REMARKS
0010	509+00 'EB'	1	3-48-INCH X 235' RCCP

CLEARING AND GRUBBING

CATEGORY	STAGE	STATION	-	STATION	LOCATION	201.0105 CLEARING STA	201.0205 GRUBBING STA
0010	STAGE 1A	416+00 'WB'	-	421+00 'WB'	LT	5	5
		423+00 'WB'	-	428+00 'WB'	LT	5	5
		429+00 'WB'	-	430+00 'WB'	LT	1	1
		440+00 'WB'	-	441+00 'WB'	LT	1	1
		447+00 'WB'	-	450+00 'WB'	LT	3	3
		458+00 'WB'	-	462+00 'WB'	LT	4	4
		472+00 'WB'	-	473+00 'WB'	LT	1	1
		479+50 'D'	-	486+50'D'	LT	7	7
		489+00 'D'	-	491+00 'D'	LT	2	2
		51+00	-	56+00	LT	5	5
		45+00	-	49+00	LT	4	4
		515+00 'WB'	-	516+00 'WB'	LT	1	1
		SUBTOTALS (STAGE 1A)				39	39
	STAGE 1B	51+00	-	57+00	RT	6	6
		44+00	-	48+00	RT	4	4
		502+00 'WB'	-	503+00 'WB'	LT	1	1
		SUBTOTALS (STAGE 1B)				11	11
	STAGE 2A	415+00 'EB'	-	416+00 'EB'	RT	1	1
		418+00 'EB'	-	430+00 'EB'	RT	12	12
		431+00 'EB'	-	437+00 'EB'	RT	6	6
		442+00 'EB'	-	445+00 'EB'	RT	3	3
		446+00 'EB'	-	447+00 'EB'	RT	1	1
		451+00 'EB'	-	452+00 'EB'	RT	1	1
		455+00 'EB'	-	456+00 'EB'	RT	1	1
		457+00 'EB'	-	459+00 'EB'	RT	2	2
		461+00 'EB'	-	462+00 'EB'	RT	1	1
		467+00 'EB'	-	468+00 'EB'	RT	1	1
		471+00 'EB'	-	479+00 'EB'	RT	8	8
		484+00 'EB'	-	489+00 'A'	RT	5	5
		491+00 'A'	-	493+00 'A'	RT	2	2
		SUBTOTALS (STAGE 2A)				44	44
					TOTALS	94	94

REMOVING PAVEMENT

CATEGORY	STAGE	STATION	-	STATION	204.0100 REMOVING PAVEMENT SY
0010	STAGE 2A	413+00 'EB'	-	490+50 'EB'	20,700
		493+00 'EB'	-	506+00 'EB'	3,450
		509+00 'EB'	-	525+00 'EB'	4,250
		SUBTOTAL (STAGE 2A)			28,400
	STAGE 2B	490+50 'EB'	-	493+00 'EB'	670
		506+00 'EB'	-	509+00 'EB'	800
		SUBTOTAL (STAGE 2B)			1,470
	STAGE 3A	489+50 'WB'	-	504+00 'WB'	3,870
		SUBTOTAL (STAGE 3A)			3,870
	STAGE 3B	413+00 'WB'	-	489+50 'WB'	20,400
		504+00 'WB'	-	525+00 'WB'	5,600
		SUBTOTAL (STAGE 3B)			26,000
		TOTAL			59,740

REMOVING SMALL PIPE CULVERTS

CATEGORY	STAGE	STATION	LOCATION	203.0100 EACH	REMARKS
0010	STAGE 1B	40+12	RT	1	60" X 135' RCCP
		36+50	RT	2	2 X 36" X 130' CMCP
		SUBTOTAL(STAGE 1B)		3	
	STAGE 3B	505+40 'C'	LT/RT	1	30" X 135' RCCP
		SUBTOTAL(STAGE 3B)		1	
	STAGE 3C	499+50 'DB'	LT	1	12" X 25' CMCP
		499+75 'DB'	LT	1	24" X 89' RCCP
		SUBTOTAL(STAGE 3C)		2	
		SUBTOTALS (0100)		6	
0100		10+80 'PK'	---	1	30" x 36' CMCP
		SUBTOTAL (0100)		1	
		PROJECT TOTAL		7	

REMOVING CURB AND GUTTER SUMMARY

CATEGORY	STAGE	STATION	-	STATION	LOCATION	204.0130 CURB LF	204.0150 CURB & GUTTER LF
0010	STAGE 1A	489+08 'D'	-	60+59	LT/RT	---	1,226
		498+79 'DB'	-	498+85 'DB'	LT	---	45
		42+09	-	42+74	LT	---	92
		42+58	-	42+73	LT/RT	47	---
		SUBTOTALS (STAGE 1A)				47	1,363
	STAGE 1B						
		36+49	-	36+78	RT	100	---
		39+86	-	40+37	RT	---	100
		56+77	-	57+43	RT	---	86
		SUBTOTAL (STAGE 1B)				100	186
	STAGE 1C-1	54+47	-	56+25	RT	---	380
		502+25 'C'	-	507+65 'C'	LT	---	540
		SUBTOTALS (STAGE 1C-1)				0	920
	STAGE 2A	489+19 'A'	-	494+21 'A'	RT	---	540
		504+76 'B'	-	509+21 'B'	LT / RT	---	510
		SUBTOTALS (STAGE 2A)				0	1,050
	STAGE 3B	495+18 'A'	-	498+76 'A'	RT	---	405
		SUBTOTALS (STAGE 3B)				0	405
	STAGE 3C	56+80	-	56+96	LT/RT	47	---
		SUBTOTALS (STAGE 3C)				47	0
	STAGE 3G	39+49	-	41+73	RT	---	326
		501+26 'B'	-	503+63 'B'	RT	---	185
		496+64 'DB'	-	498+80 'DB'	LT	---	242
		SUBTOTALS (STAGE 3G)				0	753
		TOTALS				194	4,677

REMOVING CONCRETE BARRIER

CATEGORY	STAGE	STATION	-	STATION	LOCATION	204.0157 LF
0010	STAGE 1B	497+70 'WB'	-	499+50 'WB'	LT	180
	STAGE 2	496+45 'EB'	-	498+25 'EB'	RT	180
		TOTAL				360

REMOVING CONCRETE SIDEWALK

CATEGORY	STAGE	STATION	-	STATION	LOCATION	204.0155 SY
0010	STAGE 1B	36+49	-	36+78	RT	67

REMOVING ASPHALTIC SURFACE

CATEGORY	STAGE	STATION	-	STATION	LOCATION	204.0110 SY	204.0115 BUTT JOINTS SY	204.0120 MILLING SY
0010	1B	403+50 'WB'	-	405+00 'WB'	LT	167	---	---
		530+00	-	534+75	LT	306	---	---
		SUBTOTALS (STAGE 1B)				473	0	0
	1C	413+00 'WB'	-	480+00 'WB'	RT	2,700	---	---
		521+00 'WB'	-	526+00 'WB'	RT	195	---	---
		SUBTOTALS (STAGE 1C)				2,895	0	0
	2A	413+00 'EB'	-	---	RT	---	30	---
		525+00 'WB'	-	---	RT	---	30	---
		SUBTOTALS (STAGE 2A)				0	60	0
	2B	64+00 'S1'	-	65+75 'S1'	RT	---	360	---
		64+00	-	70TH AVE	RT	400	30	---
		SUBTOTALS (STAGE 2B)				400	390	0
	3A	413+00 'WB'	-	413+00 EB	RT	---	30	---
		525+00 'EB'	-	525+00 EB	RT	---	30	---
		SUBTOTALS (STAGE 3A)				0	60	0
	3C	500+40 'C'	-	500+79 'C'	LT	20	---	---
		500+65 'C'	-	501+05 'C'	RT	12	---	---
		492+48 'D'	-	492+74 'D'	RT	8	---	---
		492+72 'D'	-	492+98 'D'	LT	12	---	---
		SUBTOTALS (STAGE 3C)				52	0	0
	3D	425+00 'EB'	-	438+11 'EB'	LT	582	---	---
		439+05 'WB'	-	440+41 'WB'	RT	60	---	---
		475+00 'EB'	-	489+72 'EB'	LT	657	---	---
		503+28 'EB'	-	511+00 'EB'	LT	360	---	---
		397+50 'EB'	-	413+00 'EB'	LT	690	---	---
		399+00 'WB'	-	413+00 'WB'	RT	625	---	---
		525+00 'EB'	-	539+57 'EB'	LT	650	---	---
		525+00 'WB'	-	539+75 'WB'	RT	635	---	---
		525+00 'EB'	-	545+00 'EB'	LT/RT	---	510	8,900
		545+00 'EB'	-	---	LT	---	420	---
		SUBTOTALS (STAGE 3D)				4,259	930	8,900
	3E	497+12 'A'	-	497+57 'A'	LT	41	---	---
		499+35 'B'	-	500+55 'B'	LT	199	---	---
		501+66 'B'	-	504+70 'B'	LT	103	---	---
		531+93 'EB'	-	547+27 'EB'	RT	1,942	---	---
		SUBTOTALS (STAGE 3E)				2,285	0	0
	3F	525+00 'EB'	-	545+00 'EB'	LT/RT	---	510	8,900
		545+00 'EB'	-	---	LT	---	420	---
		SUBTOTALS (STAGE 3F)				0	930	8,900
	3G	496+68 'C'	-	497+68 'C'	LT/RT	78	---	---
		496+42 'D'	-	497+31 'D'	RT	70	---	---
		32+50	-	33+10	LT/RT	---	330	---
		37+02	-	37+13	RT	21	---	---
		39+62	-	42+79	RT	344	---	---
		45+80	-	47+18	LT/RT	1,627	---	---
		47+37	-	47+89	LT/RT	89	---	---
		51+57	-	52+22	RT	121	---	---
		52+40	-	43+70	LT/RT	1,455	---	---
		52+57	-	53+69	RT	94	---	---
		53+78	-	54+01	LT/RT	115	---	---
		55+28	-	56+68	LT/RT	166	---	---
		65+50	-	68+00	RT	110	---	---
		64+00	-	64+50	LT/RT	---	330	---
		SUBTOTALS (STAGE 3G)				4,290	660	0
		UNDISTRIBUTED				621	150	900
					TOTALS	15,275	3,180	18,700

SALVAGED RAIL

CATEGORY	STAGE	STATION		STATION	LOCATION	614.0920 LF
0010	STAGE 1A	403+80 'WB'	-	407+50 'WB'	LT	370
		423+09 'WB'	-	432+95 'WB'	LT	990
		463+00 'WB'	-	477+45 'WB'	LT	1,450
		499+48 'WB'	-	500+32 'WB'	LT	85
		486+90'D'	-	491+81'D'	LT	510
		51+11	-	54+90	LT	360
		497+00 'WB'	-	498+98 'WB'	RT	380
		SUBTOTAL (STAGE 1A)				4,145
	STAGE 1B	43+86	-	48+35	RT	449
		44+83	-	48+24	RT	310
		50+94	-	52+43	RT	150
		50+96	-	54+90	RT	394
		SUBTOTAL (STAGE 1B)				1,303
	STAGE 1C	399+00 'WB'	-	400+62 'WB'	LT	162
		SUBTOTAL (STAGE 1C)				162
	STAGE 2A	423+66 'EB'	-	431+16 'EB'	RT	750
		462+08 'EB'	-	469+70 'EB'	RT	760
		495+61 'EB'	-	496+47 'EB'	RT	85
		SUBTOTAL (STAGE 2A)				1,595
	STAGE 3A	490+52 'D'	-	495+11 'D'	LT & RT	550
		SUBTOTAL (STAGE 3A)				550
	STAGE 3G	490+52 'D'	-	495+11 'D'	LT & RT	620
		SUBTOTAL (STAGE 3G)				620
		SUBTOTAL (0010)				8,375
0100		11+15 'PK'	-	13+15 'PK'	RT	235
		SUBTOTAL (0100)				235
		PROJECT TOTAL				8,610

REMOVING DELINEATORS AND MARKERS

CATEGORY	STATION	LOCATION	204.0180 EACH
0010	EB MAINLINE	RT	36
	WB MAINLINE	RT	36
	A' RAMP	RT	12
	B' RAMP	RT	10
	C' RAMP	RT	13
	D' RAMP	RT	13
	TOTAL		120

REMOVING SURFACE DRAINS

CATEGORY	STATION	LOCATION	204.0190 EACH
0010	499+28 'EB'	RT	1
	41+70	RT	1
	42+00	LT	1
	50+98	RT	1
	51+06	LT	1
	60+69	LT	1
	495+22 'A'	RT	1
	492+18 'C'	RT	1
	492+18 'D'	LT	1
	TOTAL		9

REMOVING INLETS

CATEGORY	STAGE	STATION	LOCATION	204.0220 EACH
0010	STAGE 1B	496+79 'EB'	33' LT	1
		SUBTOTAL (STAGE 1B)		1
	STAGE 2A	415+43 'EB'	38' LT	1
		423+00 'EB'	32' LT	1
		437+46 'EB'	35' LT	1
		475+00 'EB'	34' LT	1
		492+75 'A'	45' LT	1
		SUBTOTAL (STAGE 2A)		5
	STAGE 2B	491+79 'EB'	34' LT	1
		491+79 'EB'	72' RT	1
		SUBTOTAL (STAGE 2B)		2
	STAGE 3A	427+97 'EB'	35' LT	1
		447+97 'EB'	36' LT	1
		458+96 'EB'	35' LT	1
		466+98 'EB'	33' LT	1
		SUBTOTAL (STAGE 3A)		4
	STAGE 3B	507+33 'WB'	26' RT	1
		516+03 'WB'	29' LT	1
		503+21 'C'	30' LT	1
		SUBTOTAL (STAGE 3B)		3
	STAGE 3C	498+68 'DB'	102' LT	1
		SUBTOTAL (STAGE 3C)		1
	STAGE 3E	531+50 'EB'	2.3' LT	1
		502+73 'B'	290' RT	1
		508+22 'B'	2' LT	1
		499+50 'DB'	156' LT	1
		SUBTOTAL (STAGE 3E)		4
		TOTAL		20

REMOVING CONCRETE BASES

CATEGORY	STATION	LOCATION	204.0195 EACH
0010	42+17	15' LT	1
	42+34	47' RT	1
	42+43	70' RT	1
	43+18	76' RT	1
	43+22	15' RT	1
	42+66	5' RT	1
		TOTAL	6

PREPARE FOUNDATION FOR APHALTIC SHOULDERS

CATEGORY	STATION		STATION	LOCATION	211.0400 STA
0010	413+55 'WB'	-	482+54 'WB'	RT	69
	521+80 'WB'	-	525+88 'WB'	RT	5
	TOTALS				74

OBLITERATING OLD ROAD

CATEGORY	STAGE	STATION / OFFSET		STATION / OFFSET	214.0100 STA	NOTES
0010	STAGE 3C	492+30 'D' / 80' LT	-	58+50 'STH 65' / 100'LT	7	OLD WB ENTRANCE RAMP
		497+97 'DB' / 182' LT	-	498+88 'DB / 73' LT	1	OLD WB ENTRANCE RAMP
		54+68 'STH 65' / 49' RT	-	500+18 'C' / 133' LT	6	OLD WB EXIT RAMP
		SUBTOTAL (STAGE 3C)			14	
	STAGE 3E	40+34 'STH 65' / 65' RT	-	505+51 'B' / 96' RT	8	OLD EB ENTRANCE RAMP
		42+67 'STH 65' / 76' RT	-	42+31 'STH 65' / 357' RT	3	OLD EB ENTRANCE RAMP
		494+76 'A' / 63' RT	-	42+97 'STH 65' / 81' LT	6	OLD EB EXIT RAMP
		SUBTOTAL (STAGE 3E)			17	
		TOTAL			31	

REMOVING FENCE

CATEGORY	STATION		STATION	LOCATION	204.0170 LF
0010	413+00 'WB'	-	491+03 'WB'	LT	7,870
	461+00 'WB'	-	475+50 'WB'	LT	1,390
	499+72 'WB'	-	525+00 'WB'	LT	2,928
	413+00 'EB'	-	490+54 'EB'	RT	7,720
	506+00 'EB'	-	525+00 'EB'	RT	1,904
	36+38	-	46+26	LT	1,320
	37+33	-	42+47	RT	900
	52+54	-	63+72	LT	1,220
	57+32	-	63+96	RT	870
	SUBTOTAL (0010)				26,122
0100	11+15 'PK'	-	13+15 'PK'	RT	235
	SUBTOTAL (0100)				235
	PROJECT TOTAL				26,357

REMOVING STORM SEWER

CATEGORY	STATION	LOCATION	204.0245.01 18-INCH LF	204.0245.02 24-INCH LF	204.0245.03 30-INCH LF	204.0245.04 36-INCH LF
0010	422+98 'EB'	LT/RT	85	---	---	---
	427+98 'EB'	LT	100	---	---	---
	437+47 'EB'	LT/RT	80	---	---	---
	447+98 'EB'	LT	80	---	---	---
	458+97 'EB'	LT	90	---	---	---
	466+99 'EB'	LT	110	---	---	---
	475+03 'EB'	LT/RT	---	---	180	---
	491+32 'EB'	LT/RT	---	---	---	200
	496+79 'EB'	LT	80	---	---	---
	507+03 'EB'	LT/RT	---	---	220	---
	516+02 'EB'	LT	90	---	---	---
	531+50 'EB'	LT	---	144	---	---
	492+74 'A'	LT	25	---	---	---
	502+73 'B'	RT	45	---	---	---
	508+22 'B'	RT	30	---	---	---
	503+21 'C'	LT	20	---	---	---
	498+11 'DB'	LT	50	---	---	---
	TOTALS		885	144	400	200

REMOVING SIGN COVERS

CATEGORY	LOCATION	204.9060.S.01 EACH
0010	USH 12 & STH 65	7

EARTHWORK SUMMARY

DIVISION	CATEGORY	STAGE	STATION - STATION	LOCATION	(1) EXCAVATION COMMON CY	(2) SALVAGED/ UNUSABLE MATERIAL CY	(3) AVAILABLE MATERIAL CY	(4) EBS EXCAVATION 5% OF AVAILABLE MATERIAL CY	(5) 205.0100 TOTAL EXCAVATION COMMON CY	205.0200 EXCAVATION ROCK CY	(6) EXPANDED EXCAVATION ROCK FACTOR 1.1 CY	(7) EBS EXCAVATION REDUCED FACTOR 0.8 CY	FILL CY	(8) EXPANDED FILL FACTOR 1.25 CY	(9) MASS ORDINATE+/- CY	WASTE CY	(10) 208.0100 BORROW CY	SELECT BORROW CY	(11) 208.1100 EXPANDED SELECT BORROW FACTOR 1.3 CY	(12) 624.0100 WATER MGAL*
1	0010	1A	402+00 EB - 485+00 EB	LT	62,889	---	62,889	3,144	66,033	31,179	34,297	2,515	47,042	12,788	53,245			12,226	15,894	189
			513+00 EB - 534+00 EB	LT	7,363	---	7,363	368	7,731	---	---	294	3,255	3,701	4,030			3,361	4,369	32
			484+00 D1 - 492+50 D1	LT/RT	3,198	---	3,198	160	3,358	---	---	128	8,308	10,225	-6,867			---	---	27
			32+00 - 49+00	LT/RT	1,101	---	1,101	55	1,156	---	---	44	35,454	44,263	-43,107			5,032	6,542	104
			50+60 - 64+00	LT/RT	841	---	841	42	883	---	---	34	21,093	26,324	-25,441			2,381	3,095	61
			DIVISION 1 SUBTOTALS						79,161	31,179					-18,140	0	18,140		29,900	413
2		1B	485+00 EB - 508+00 EB	LT	4,201	---	4,201	210	4,411	---	---	168	1,647	1,849	2,562			3,065	3,985	20
			516+40 C1 - 526+00 C1	LT/RT	100	---	100	5	105	---	---	4	19,541	24,421	-24,316			---	---	49
			32+00 - 49+00	LT/RT	1,933	---	1,933	97	1,933	---	---	78	8,142	10,080	-8,147			3,664	4,763	34
			50+60 - 64+00	LT/RT	841	---	841	42	841	---	---	34	25,859	32,281	-31,440			9,849	12,804	92
			DIVISION 2 SUBTOTALS						7,290	0					-61,341	0	61,341		21,552	195
3		1C	508+00 EB - 513+00 EB	LT	420	---	420	21	441	---	---	17	2,526	3,136	-2,695			1,179	1,533	10
			483+00 EB - 490+00 EB	RT	527	---	527	26	553	4	4	21	72	59	494			0	0	1
			509+00 EB - 521+00 EB	RT	752	---	752	38	790	---	---	30	141	139	651			197	256	2
			MEDIAN CROSSOVER (WEST)	LT/RT	1,499	---	1,499	75	1,574	---	---	60	6,276	7,770	-6,196			---	---	0 19
			MEDIAN CROSSOVER (EAST)	LT/RT	3,861	---	3,861	193	4,054	---	---	154	1,745	1,989	2,065			---	---	12
			DIVISION 3 SUBTOTALS						7,412	4					-5,681	0	5,681		1,789	44
4		1D	492+00 A1 - 495+50 A1	LT/RT	78	---	78	4	82	---	---	3	983	1,225	-1143			---	---	3
			504+00 B1 - 508+00 B1	LT/RT	451	---	451	23	474	---	---	18	429	514	-40			---	---	2
			DIVISION 4 SUBTOTALS						556	0					-1183	0	1,183		0	5
5		2A	400+00 EB - 491+00 EB	RT	145,802	---	145,802	7,290	153,092	99,366	109,303	5,832	38,419	-95,895	248,987			21,038	27,349	169
			493+00 EB - 506+00 EB	RT	27,848	---	27,848	1,392	29,240	---	---	1,114	253	-1,076	30,316			0	0	56
			509+00 EB - 537+00 EB	RT	20,592	---	20,592	1,030	21,622	---	---	824	1,056	290	21,332			939	1,221	46
			486+35 A - 493+50 A	LT/RT	17,618	---	17,618	881	18,499	5,506	6,057	705	773	-7,486	25,985			1,161	1,509	25
			493+00 A2 - 496+50 A2	LT/RT	72	---	72	4	76	---	---	3	372	461	-385			---	---	1
			504+52 B2 - 510+00 B2	LT/RT	2,336	---	2,336	117	2,453	---	---	94	602	635	1,818			---	---	6
			499+61 C2 - 503+72 C2	LT/RT	1,194	---	1,194	60	1,254	---	---	48	202	193	1,061			---	---	3
			489+09 D2 - 497+00 D2	LT/RT	801	---	801	40	841	---	---	32	4,989	6,196	-5,355			---	---	14
			DIVISION 5 SUBTOTALS						227,077	104,872					323,759	323,759	0		30,079	320
6		2B	491+00 EB - 493+00 EB	RT	8,336	---	8,336	417	8,753	---	---	334	---	-418	9,171			82	107	17
			506+00 EB - 509+00 EB	RT	4,442	---	4,442	222	4,664	---	---	178	---	-223	4,887			---	---	9
			493+50 A - 497+50 A	LT/RT	284	---	284	14	298	---	---	11	7,894	9,854	-9,556			2,612	3,396	27
			499+50 B - 505+50 B	LT/RT	53	---	53	3	56	---	---	2	46,665	58,329	-58,273			4,087	5,313	127
			438+55 XD - 440+50 XD	LT/RT	71	---	71	4	75	---	---	3	26	29	46			---	---	---
			DIVISION 6 SUBTOTALS						13,846	0					-53,725	0	53,725		8,816	180
7		3B	400+00 EB - 490+00 EB	LT	27,477	---	27,477	1,374	28,851	35,869	39,456	1,099	17,281	-29,093	57,944			23,717	30,832	61
			504+00 EB - 525+00 EB	LT	20,396	---	20,396	1,020	21,416	---	---	816	---	-1,020	22,436			447	581	42
			482+78 D - 497+00 D	LT/RT	9,137	---	9,137	457	9,594	7,793	8,572	366	35,969	33,789	-24,195			2,828	3,676	94
			493+75 DB - 499+99 DB	LT/RT	1,205	---	1,205	60	1,265	---	---	48	38,125	47,596	-46,331			3,555	4,622	107
			497+50 C - 509+98 C	LT/RT	7,394	---	7,394	370	7,764	---	---	296	16,584	20,360	-12,596			3,640	4,732	66
			DIVISION 7 SUBTOTALS						68,890	43,662					-2,742	0	2,742		44,443	370

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

CONT'D ON NEXT PAGE

EARTHWORK SUMMARY (CONT'D.)

DIVISION	CATEGORY	STAGE	STATION - STATION	LOCATION	(1) EXCAVATION COMMON CY	(2) SALVAGED/ UNUSABLE MATERIAL CY	(3) AVAILABLE MATERIAL CY	(4) EBS EXCAVATION 5% OF AVAILABLE MATERIAL CY	(5) 205.0100 TOTAL EXCAVATION COMMON CY	205.0200 EXCAVATION ROCK CY	(6) EXPANDED EXCAVATION ROCK FACTOR 1.1 CY	(7) EBS EXCAVATION REDUCED FACTOR 0.8 CY	FILL CY	(8) EXPANDED FILL FACTOR 1.25 CY	(9) MASS ORDINATE+/- CY	WASTE CY	(10) 208.0100 BORROW CY	SELECT BORROW CY	(11) 208.1100 EXPANDED SELECT BORROW FACTOR 1.3 CY	(12) 624.0100 WATER MGAL*
8	0010	3C	491+00 EB		2,301	---	2,301	115	2,416	---	---	92	---	-115	2,531			115	150	5
			503+00 EB		1,529	---	1,529	76	1,605	---	---	61	---	-76	1,681			92	120	3
			490+00 EB - 504+00 EB	LT	18,748	---	18,748	937	19,685	---	---	750	3,862	3,890	15,795			---	---	47
			32+00 - 49+00	LT/RT	855	---	855	43	898	---	---	34	4,213	5,224	-4,326			---	---	12
			50+60 - 64+00	LT/RT	3,880	---	3,880	194	4,074	---	---	155	5,616	6,826	-2,752			---	---	22
			DIVISION 8 TOTALS						28,678	0					12,929	12,929	0		270	89
9		3D	398+00 EB - 413+00 EB	LT	7,440	---	7,440	---	7,440	---	---	---	125	156	7,284			---	---	15
			425+00 EB - 438+00 EB	LT	448	---	448	---	448	---	---	---	---	---	448			---	---	1
			446+00 EB - 449+00 EB	LT	114	---	114	---	114	---	---	---	---	---	114			---	---	0
			476+00 EB - 490+00 EB	LT	507	---	507	---	507	---	---	---	---	---	507			---	---	1
			504+00 EB - 511+00 EB	LT	250	---	250	---	250	---	---	---	---	---	250			---	---	1
			525+00 EB - 540+00 EB	LT	4,342	---	4,342	---	4,342	---	---	---	---	---	4,342			---	---	9
			503+00 B3 - 510+00 B3	LT/RT	468	---	468	23	491	---	---	18	833	1,019	-528			---	---	3
			DIVISION 9 TOTALS						13,592	0					12,417	12,417	0		0	30
10		3E	50+60 - 64+00	LT	3,880	---	3,880	194	4,074	---	---	155	2,839	3,355	719			2,534	3,294	21
			486+35 A - 495+00 A	RT	1,080	---	1,080	0	1,080	34	37	---	---	-46	1,126			0	0	2
			503+50 B - 513+85 B	LT/RT	2,052	---	2,052	103	2,155	---	---	82	711	711	1,444			1,653	2,149	10
			DIVISION 10 TOTALS						7,309	34					3,289	3,289	0		5,443	33
11		3F	400+00 EB - 548+00 EB	RT	8,086	---	---	---	8,086	---	---	---	1,455	1,819	6,267			---	---	20
			32+00 - 49+00	RT	855	---	---	---	855	---	---	---	1,386	1,733	-878			2,884	3,749	13
			DIVISION 11 TOTALS						8,941	0					5,389	5,389	0		3,749	33
12		3G	32+00 - 49+30	LT/RT	1,816	---	---	---	1,816	---	---	---	398	498	1,318			---	---	5
			50+60 - 64+00	LT/RT	426	---	---	---	426	---	---	---	0	0	426			---	---	1
			DIVISION 12 TOTALS						2,242	0					1,744	1,744	0		0	6
			SUBTOTALS (0010)						464,994	179,751							142,812		146,041	1,718
	0100		PARK AND RIDE		1,274	378	896	45	1,319	---	---	36	1,163	1,409	-90			---	0	5
			SUBTOTALS (0100)		1,274				1,319	0					-90	0	0		0	5
			PROJECT TOTALS						466,313	179,751							142,812		146,041	1,723

1) EXCAVATION COMMON DOES NOT INCLUDE EBS EXCAVATION.
2) UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN EXCAVATION COMMON.
3) AVAILABLE MATERIAL = EXCAVATION COMMON - UNUSABLE MATERIAL.
4) EBS EXCAVATION TO BE BACKFILLED WITH SELECT BORROW.
5) TOTAL EXCAVATION COMMON = EXCAVATION COMMON + EBS EXCAVATION
6) EXPANDED EXCAVATION ROCK FACTOR = 1.1
7) REDUCED EBS FILL - EXCAVATED EBS MATERIAL IS USABLE IN FILLS OUTSIDE THE 1:1 SLOPE; EBS IN FILL REDUCTION FACTOR = 0.8
8) EXPANDED FILL = (UNEXPANDED FILL - EXPANDED EXCAVATION ROCK - EBS EXCAVATION REDUCED)*FILL FACTOR; EXPANDED FILL FACTOR = 1.25
9) THE MASS ORDINATE (+) OR (-) QUANTITY CALCULATED FOR THE DIVISION. A (+) QUANTITIY INDICATES AN EXCESS OF MATERIAL WITHING THE DIVISION. A (-) QUANTITY INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.
10) BORROW = ABSOLUTE VALUE OF (-) MASS ORDINATE.
11) EXPANDED SELECT BORROW FACTOR = 1.3

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

BASE AGGREGATE SUMMARY

CATEGORY	STAGE	STATION		STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	624.0100 WATER MGAL *
0010	STAGE 1A	402+03 'WB'	-	485+49 'WB'	LT	1,350	19,100	41
		478+13 'D1'	-	492+06 'D1'	LT	480	2,800	7
		513+00 'WB'	-	534+77 'WB'	LT	455	4,850	11
		33+10	-	42+83	LT	235	2,550	6
		42+98	-	45+44	LT/RT	105	1,050	2
		45+80	-	47+18	LT/RT	15	70	0.2
		47+37	-	47+87	LT	---	770	2
		497+12 'A'	-	497+62 'A'	LT	10	60	0.1
		51+25	-	53+23	LT	60	335	1
		52+59	-	53+21	LT	7	45	0.1
		53+23	-	56+91	LT	105	1,210	3
		57+00	-	59+95	LT	55	755	2
		59+35	-	64+34	LT	105	740	2
		SUBTOTAL (STAGE 1A)				2,982	34,335	77.4
	STAGE 1B	479+49 'WB'	-	508+00 'WB'	LT	265	5,970	13
		514+39 'C1'	-	520+46 'C1'	RT	175	1,260	3
		520+43 'C1'	-	526+42 'C1'	RT	190	1,300	3
		499+32 'B'	-	500+55 'B'	LT	25	210	1
		SUBTOTAL (STAGE 1B)				655	8,740	20
	STAGE 1C	411+16 'WB'	-	525+50 'WB'	RT	1,110	3,700	10
		482+45 'WB'	-	491+61 'WB'	RT	105	1,000	2
		507+02 'WB'	-	518+55 'WB'	RT	125	1,300	3
		531+91 'EB'	-	548+25 'EB'	RT	315	2,300	5
		399+00	-	414+00	CROSSOVER	---	6,810	14
		526+00	-	540+00	CROSSOVER	---	5,400	11
		SUBTOTAL (STAGE 1C)				1,655	20,510	45
	STAGE 1D	491+30 'A1'	-	496+38 'A1'	LT/RT	90	840	2
		504+86 'B1'	-	508+81 'B1'	LT/RT	78	790	2
		SUBTOTAL (STAGE 1D)				168	1,630	4
	STAGE 2A	400+00 'EB'	-	491+00 'EB'	LT/RT	640	43,600	89
		509+00 'EB'	-	537+00 'EB'	LT/RT	130	11,400	23
		486+35 'A'	-	493+40 'A'	LT/RT	160	2,000	4
		SUBTOTAL (STAGE 2A)				930	57,000	116
	STAGE 2B	438+51 'WB'	-	440+08 'WB'	LT	40	310	1
		491+00 'EB'	-	509+00 'EB'	LT/RT	30	11,540	23
		493+40 'A'	-	495+00 'A'	LT/RT	30	410	1
		495+00 'A'	-	497+50 'A'	LT/RT	20	550	1
		499+32 'B'	-	505+50 'B'	LT/RT	70	1,220	3
		28+39	-	36+24	RT	160	1,050	2
		37+05	-	37+05	RT	---	15	0.0
		37+36	-	40+17	RT	60	380	1
		39+00	-	42+43	RT	70	470	1
		45+69	-	47+16	RT	---	355	1
		51+59	-	52+26	RT	---	80	0.2
		53+60	-	53+60	LT	25	110	0.3
		53+82	-	54+01	LT/RT	10	120	0.3
		53+69	-	54+25	LT	6	75	0.2
		57+37	-	64+31	RT	140	850	2
		65+47	-	68+00	RT	52	240	1
		SUBTOTAL (STAGE 2B)				713	17,775	38.0

CONT'D. ABOVE

CATEGORY	STAGE	STATION		STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	624.0100 WATER MGAL *
0010	STAGE 3A	490+14 'D2'	-	493+38 'D2'	LT	90	770	2
		493+58 'D2'	-	497+00 'D2'	LT	120	730	2
		499+57 'C2'	-	502+77 'C2'	LT	90	650	2
		SUBTOTAL (STAGE 3A)				300	2,150	6
	STAGE 3B	412+00 'WB'	-	490+00 'WB'	LT/RT	1,700	32,500	68
		504+00 'WB'	-	532+00 'WB'	LT/RT	500	9,500	20
		496+68 'C'	-	497+47 'C'	LT	15	100	0.2
		497+50 'C'	-	502+00 'C'	LT/RT	30	800	2
		502+00 'C'	-	509+98 'C'	LT/RT	110	1,600	3
		482+78 'D'	-	492+00 'D'	LT/RT	150	2,100	5
		492+00 'D'	-	497+29 'D'	LT/RT	210	3,060	7
		493+75 'DB'	-	499+99 'DB'	LT/RT	80	1,190	3
		SUBTOTAL (STAGE 3B)				2,795	50,850	108.2
	STAGE 3C	490+00 'WB'	-	504+00 'WB'	LT/RT	295	6,900	14
		55+28	-	56+68	LT/RT	30	205	1
		SUBTOTAL (STAGE 3C)				325	7,105	15
	STAGE 3D	405+00 'WB'	-	413+00 'WB'	LT/RT	---	60	0.1
		525+00 'WB'	-	545+00 'WB'	LT/RT	20	---	0.0
		447+00 'EB'	-	---	LT/RT	---	290	1
		534+00 'EB'	-	---	LT/RT	---	720	1
		503+00 'B3'	-	509+00 'B3'	LT	115	1,930	4
		SUBTOTAL (STAGE 3D)				135	3,000	6.1
	STAGE 3E	505+50 'B'	-	513+86 'B'	LT/RT	110	1,750	4
		498+50 'DB'	-	499+99 'DB'	LT/RT	20	260	1
		42+33	-	45+44	RT	40	700	2
		42+43	-	42+80	RT	---	10	0.0
		SUBTOTAL (STAGE 3E)				170	2,720	7
	STAGE 3F	525+00 'EB'	-	545+00 'EB'	LT/RT	20	0	0
		SUBTOTAL (STAGE 3F)				20	---	---
		SUBTOTALS (0010)				10,848	205,815	442.1
0100		10+42 'PK'	-	13+82 'PK'	LT/RT	125	4,725	10
		10+60 'PK'	-	11+20 'PK'	TEMP DRIVE	---	100	0.2
		SUBTOTAL (0100)				125	4,825	10.2
					PROJECT TOTALS	10,973	210,640	452.3

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

CONCRETE PAVEMENT

CATEGORY	STAGE	STATION		STATION	LOCATION	415.0410 CONCRETE PAVEMENT APPROACH SLAB SY	SPV.0180.02 CONCRETE PAVEMENT 8-INCH SPECIAL SY	SPV.0180.03 CONCRETE PAVEMENT 10-INCH SPECIAL SY	SPV.0180.04 CONCRETE PAVEMENT 13-INCH SPECIAL SY	SPV.0180.05 CONCRETE PAVEMENT HES 8-INCH SPECIAL SY	SPV.0180.06 CONCRETE PAVEMENT HES 10-INCH SPECIAL SY	SPV.0180.07 CONCRETE PAVEMENT HES 13-INCH SPECIAL SY	SPV.0180.01 TRUCK APRON COLORED CONCRETE PAVEMENT 10-INCH SY	440.4410.S INCENTIVE IRI RIDE DOL	715.0415 INCENTIVE STRENGTH CONCRETE PAVEMENT DOL	650.7000 CONSTRUCTION STAKING CONCRETE PAVEMENT LF
0010	STAGE 1A	45+48	-	48+70	RT/LT	80	---	1,550	---	---	---	---	---	---	---	---
		50+82	-	53+95	LT	60	---	1,000	---	---	---	---	---	---	---	---
		SUBTOTALS (STAGE 1A)				140	0	2,550	0	0	0	0	0	0	0	0
	STAGE 2A	413+00'EB'	-	490+50'EB'	RT	---	---	---	22,050	---	---	---	---	5,872	---	7,750
		471+88'EB'	-	488+01'EB'	RT	---	---	---	2,180	---	---	---	---	611	---	1,613
		509+05'EB'	-	525+00'EB'	RT	---	---	---	4,390	---	---	---	---	1,208	---	1,595
		513+86'EB'	-	523+27'EB'	RT	---	---	---	1,240	---	---	---	---	356	---	941
		488+01'A'	-	493+40'A'	RT	---	---	890	---	---	---	---	---	---	---	539
		SUBTOTALS (STAGE 2A)				0	0	890	29,860	0	0	0	0	8,047	0	12,438
	STAGE 2B	490+50'EB'	-	509+05'EB'	RT	---	---	---	5,340	---	---	---	---	1,405	---	1,855
		33+10	-	35+97	RT	---	650	---	---	---	---	---	---	---	---	287
		35+97	-	37+65	RT	---	---	---	---	950	---	---	---	---	---	168
		37+65	-	42+42	RT	---	980	---	---	---	---	---	---	---	---	477
		44+96	-	48+55	RT	60	---	1,260	---	---	---	---	---	---	---	---
		50+70	-	56+48	RT/LT	80	---	3,100	---	---	---	---	---	---	---	148
		57+39	-	64+00	RT	---	---	1,530	---	---	---	---	---	---	---	670
		493+40'A'	-	497+55'A'	RT/LT	---	---	1,080	---	---	---	---	---	---	---	260
		499+36'B'	-	505+50'B'	RT	---	---	1,100	---	---	---	---	---	---	---	118
		SUBTOTALS (STAGE 2B)				140	1,630	8,070	5,340	950	0	0	0	1,405	0	3,983
	STAGE 3B	413+00'WB'	-	489+50'WB'	LT	---	---	---	21,900	---	---	---	---	5,796	---	7,650
		472+78'WB'	-	485+64'WB'	LT	---	---	---	1,830	---	---	---	---	487	---	1,286
		504+00'WB'	-	525+00'WB'	LT	---	---	---	5,900	---	---	---	---	1,590	---	2,100
		507+83'WB'	-	522+78'WB'	LT	---	---	---	2,130	---	---	---	---	1,132	---	1,495
		497+00'C'	-	507+81'C'	LT	---	---	2,120	---	---	---	---	---	---	---	861
		485+66'D'	-	497+29'D'	LT	---	---	2,230	---	---	---	---	---	---	---	1,065
		493+74'DB'	-	498+57'DB'	LT	---	---	1,070	---	---	---	---	---	---	---	483
		SUBTOTALS (STAGE 3B)				0	0	5,420	31,760	0	0	0	0	9,005	0	14,940
	STAGE 3C	489+50'WB'	-	504+00'WB'	LT	---	---	---	4,200	---	---	---	---	549	---	1,450
		56+48	-	57+39	RT	---	---	---	---	---	270	---	---	---	---	91
		SUBTOTALS (STAGE 3C)				0	0	0	4,200	0	270	0	0	549	0	1,541
	STAGE 3E	42+42	-	44+00	RT	---	320	---	---	---	---	---	---	---	---	158
		56+34	-	64+00	LT	---	---	2,450	---	---	---	---	---	---	---	732
		510+68'EB'	-	513+86'EB'	RT	---	---	---	---	---	---	615	---	120	---	318
		505+50'B'	-	510+70'B'	RT	---	---	865	---	---	---	---	---	---	---	520
		SUBTOTALS (STAGE 3E)				0	320	3,315	0	0	0	615	0	120	0	1,728
	STAGE 3F	33+10	-	44+00	LT	---	2,645	---	---	---	---	---	---	---	---	1,090
		44+00	-	44+96	RT	---	---	---	---	---	350	---	---	---	---	---
		44+00	-	45+60	LT	---	---	---	---	---	360	---	---	---	---	---
		SUBTOTALS (STAGE 3F)				0	2,645	0	0	0	710	0	0	0	0	1,090
	STAGE 3G	45+34	-	45+36	LT/RT	---	---	---	---	---	---	---	110	---	---	---
		45+82	-	47+15	LT/RT	---	---	---	---	---	---	---	880	---	---	---
		47+39	-	47+82	LT/RT	---	---	---	---	---	---	---	90	---	---	---
		52+43	-	53+67	LT/RT	---	---	---	---	---	---	---	465	---	---	---
		53+98	-	54+58	RT	---	---	---	---	---	---	---	140	---	---	---
		54+22	-	55+35	LT	---	---	---	---	---	---	---	35	---	---	35
		497+12 'A'	-	497+52 'A'	LT	---	---	---	---	---	---	---	95	---	---	---
		499+42 'B'	-	500+39 'B'	LT	---	---	---	---	---	---	---	215	---	---	---
		496+75 'C'	-	498+12 'C'	LT	---	---	---	---	---	---	---	225	---	---	---
		SUBTOTALS (STAGE 3G)				0	0	0	0	0	0	0	2,255	0	0	35
		SUBTOTALS (0010)				280	4,595	20,245	71,160	950	980	615	2,255	19,126	0	35,755
0100	PARK N RIDE	11+23 'PK'	-	11+67 'PK'	RT	---	70	---	---	---	---	---	---	---	---	44
		SUBTOTALS (0100)				0	70	0	0	0	0	0	0	0	0	44
		TOTALS				280	4,665	20,245	71,160	950	980	615	2,255	19,126	29,669	35,799

ASPHALTIC ITEMS

CATEGORY	STAGE	STATION - STATION	LOCATION	455.0110 ASPHALTIC MATERIAL PG58-34 TON	455.0115 ASPHALTIC MATERIAL PG64-22 TON	455.0605 TACK COAT GAL*	460.1100 HMA PAVEMENT TYPE E-0.3 TON	460.1103 HMA PAVEMENT TYPE E-3 TON	460.1110 HMA PAVEMENT TYPE E-10 TON	460.2000 INCENTIVE DENSITY HMA PAVEMENT DOL	465.0105 ASPHALTIC SURFACE TON	SPV.0195.01 ASPHALTIC SURFACE SPECIAL TON
0010	STAGE 2A	488+71.3 'A' - 493+40.0 'A'	LT	1.9	---	4	34	---	---	20	---	---
		488+76.8 'A' - 493+40.0 'A'	RT	3.1	---	6	56	---	---	40	---	---
		413+00 'EB' - 477+15.9 'EB'	LT	33.0	19.0	70	---	---	935	600	---	---
		400+00 'EB' - 488+71.8 'EB'	RT	335.0	165.0	700	---	---	9,150	5,860	---	---
		487+07.6 'EB' - 490+50 'EB'	RT	11.2	5.2	20	---	---	305	200	---	---
		488+55.9 'EB' - 490+50 'EB'	LT	1.1	0.5	2	---	---	28	20	---	---
		509+05 'EB' - 510+00 'EB'	LT	0.5	0.3	1	---	---	14	10	---	---
		509+05 'EB' - 534+39 'EB'	RT	97.0	41.0	200	---	---	2,520	1,610	---	---
		514+11.2 'EB' - 525+00 'EB'	LT	4.2	2.5	10	---	---	155	100	---	---
		SUBTOTALS (STAGE 2A)		487.0	233.5	1013	90	0	13,107	8,460	0	0
	STAGE 2B	493+40.0 'A' - 496+07.7 'A'	LT	1.0	---	2	19	---	---	10	---	---
		493+40.0 'A' - 496+12.9 'A'	RT	2.0	---	6	35	---	---	20	---	---
		500+62.5 'B' - 505+50.2 'B'	LT	2.0	---	4	36	---	---	20	---	---
		500+66.0 'B' - 505+50.2 'B'	RT	3.2	---	7	59	---	---	40	---	---
		490+50 'EB' - 506+95 'EB'	LT	9.0	4.2	30	---	---	240	150	---	---
		490+50 'EB' - 509+05 'EB'	RT	77.1	37.3	185	---	---	2,065	1,320	---	---
		36+65 - 37+16	STAR LANE	5.0	---	10	---	115	---	70	---	---
		SUBTOTALS (STAGE 2B)		99.3	41.5	244	149	115	2305	1,630	0	0
	STAGE 3B	411+11.7 'WB' - 489+50.0 'WB'	RT	42.0	---	90	765	---	---	490	---	---
		412+56.1 'WB' - 489+50.0 'WB'	LT	89.1	---	170	1,620	---	---	1,040	---	---
		484+50.3 'WB' - 489+50.0 'WB'	LT	7.2	---	10	130	---	---	80	---	---
		504+00.0 'WB' - 509+06 'WB'	LT	7.4	---	20	135	---	---	90	---	---
		504+00.0 'WB' - 525+00 'WB'	RT	12.0	---	20	210	---	---	130	---	---
		507+85.5 'WB' - 525+00.0 'WB'	LT	14.0	---	30	250	---	---	160	---	---
		489+70.2'D' - 496+21.5 'D'	LT	4.2	---	8	76	---	---	50	---	---
		485+65.9'D' - 492+0.8 'D'	RT	2.6	---	5	78	---	---	50	---	---
		493+74.8 'DB' - 498+57.7 'DB'	LT	3.1	---	6	57	---	---	40	---	---
		493+74.8 'DB' - 498+57.7 'DB'	RT	1.7	---	3	30	---	---	20	---	---
		499+85.2 'C' - 505+35.5 'C'	LT	3.7	---	7	68	---	---	40	---	---
		501+99.4 'C' - 507+80.9 'C'	RT	2.3	---	6	59	---	---	40	---	---
		506+78.5 'C' - 507+80.9 'C'	LT	2.8	---	6	52	---	---	30	---	---
		SUBTOTALS (STAGE 3B)		192.1	0.0	381	3,530	0	0	2,260	0	0
	STAGE 3C	489+50.0 'WB' - 504.00.0 'WB'	LT	20.0	---	40	355	---	---	230	---	---
		489+50.0 'WB' - 504+00.0 'WB'	RT	7.8	---	20	140	---	---	90	---	---
		SUBTOTALS (STAGE 3C)		27.8	0.0	60	495	0	0	320	0	0
	STAGE 3D	447+00 'EB'	LT	---	---	13	---	---	---	---	115	---
		525+00 'WB' - 545+00 'WB'	LT/RT	---	---	450	---	---	---	---	---	2,200
		534+00 'EB'	LT	---	---	32	---	---	---	---	285	---
		SUBTOTALS (STAGE 3D)		0.0	0.0	495	0	0	0	0	400	2,200
	STAGE 3E	505+50.0 'B' - 510+69.7 'B'	LT	2.1	---	4	38	---	---	20	---	---
		505+50.0 'B' - 513+85 'B'	RT	5.4	---	12	99	---	---	60	---	---
		498+57.7 'DB' - 499+99.2 'DB	LT	0.9	---	2	17	---	---	10	---	---
		498+57.7 'DB' - 499+32.0 'DB'	RT	0.4	---	1	7	---	---	0	---	---
		63+66.7 - 57+76.2	LT	4.1	---	8	74	---	---	50	---	---
		SUBTOTALS (STAGE 3E)		12.9	0.0	27	235	0	0	140	0	0
	STAGE 3F	525+00 'EB' - 545+00 'EB'	LT/RT	---	---	450	---	---	---	---	---	2,200
		SUBTOTALS (STAGE 3F)		0.0	0.0	450	0	0	0	0	0	2,200
		SUBTOTALS (0010)		819.1	275.0	2670	4499	115	15412	12810	400	4400
0100	PARK N RIDE	10+42 'PK' - 13+82 'PK'	LT/RT	---	---	150	---	---	---	---	1,720	---
		SUBTOTALS (0100)		0.0	0.0	150	0	0	0	0	1,720	0
		PROJECT TOTALS		819.1	275.0	2820	4499	115	15412	12,810	2,120	4,400

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

REHEATING HMA PAVEMENT LONGITUDINAL JOINTS

CATEGORY	STAGE	STATION - STATION	LOCATION	460.4100.S STA
0010	STAGE 3D	525+00 'WB' - 545+00 'WB'	LT/RT	20
		SUBTOTAL (STAGE 3D)		20
	STAGE 3F	525+00 'EB' - 545+00 'EB'	LT/RT	20
		SUBTOTAL (STAGE 3F)		20
		TOTAL		40

ASPHALTIC SURFACE PATCHING SPECIAL

CATEGORY	LOCATION	SPV.0195.02 TON
0010	UNDISTRIBUTED	200

ASPHALTIC SURFACE TEMPORARY

CATEGORY	STAGE	STATION	-	STATION	LOCATION	455.0605 TACK COAT GAL*	465.0125 ASPHALTIC SURFACE TEMPORARY TON
0010	STAGE 1A	402+03 'WB'	-	485+49 'WB'	LT	500	7,180
		478+13 'D'	-	492+06 'D'	LT	150	1,750
		513+00 'WB'	-	534+77 'WB'	LT	170	2,425
		33+10	-	42+83	LT	70	855
		42+98	-	45+44	LT/RT	25	320
		45+80	-	47+18	LT/RT	30	330
		47+37	-	47+87	LT	2	30
		497+12 'A'	-	497+62 'A'	LT	1	15
		51+25	-	53+23	LT	5	70
		52+59	-	53+21	LT	1	15
		53+23	-	56+91	LT	34	405
		57+00	-	59+95	LT	22	260
		59+35	-	64+34	LT	15	220
		SUBTOTALS (STAGE 1A)				1,025	13,875
	STAGE 1B	479+49 'WB'	-	508+00 'WB'	LT	215	3,100
		514+39 'C'	-	520+46 'C'	RT	27	320
		520+43 'C'	-	526+42 'C'	RT	28	333
		499+32 'B'	-	500+55 'B'	LT	5	59
		SUBTOTALS (STAGE 1B)				275	3,812
	STAGE 1C	506+01 'WB'		513+00 'WB'	LT	57	820
		397+50 'WB'	-	413+55 'WB'	RT	184	2,655
		411+16 'WB'	-	525+50 'WB'	RT	117	1,690
		482+45 'WB'	-	491+61 'WB'	RT	30	350
		507+02 'WB'	-	518+55 'WB'	RT	70	1,000
		526+00 'WB'	-	539+75 'WB'	RT	168	2,420
		531+91 'EB'	-	548+25 'EB'	RT	68	840
		SUBTOTALS (STAGE 1C)				694	9,775
	STAGE 1D	491+30 'A1'	-	496+38 'A'	LT/RT	25	290
		504+86 'B'	-	508+81 'B'	LT/RT	25	280
		SUBTOTALS (STAGE 1D)				50	570
	STAGE 2A	425+00 'EB'	-	438+56 'EB'	LT	58	695
		475+00 'EB'	-	490+13 'EB'	LT	65	780
		502+83 'EB'	-	506+00 'EB'	LT	17	205
		509+00 'EB'	-	511+00 'EB'	LT	5	55
		SUBTOTALS (STAGE 2A)				145	1,735
	STAGE 2B	438+51 'WB'	-	440+08 'WB'	LT	7	80
		506+00 'EB'	-	509+00 'EB'	LT	13	165
		28+39	-	36+24	RT	20	242
		37+05	-	37+05	RT	1	6
		37+36	-	40+17	RT	7	84
		39+00	-	42+43	RT	10	112
		45+69	-	47+16	RT	15	158
		51+59	-	52+26	RT	3	36
		53+60	-	53+60	LT	1	13
		496+68 'C'	-	497+47 'C'	LT	2	23
		53+82	-	54+01	LT/RT	3	34
		53+69	-	54+25	LT	2	25
		57+37	-	64+31	RT	15	252
		65+47	-	68+00	RT	3	31
		SUBTOTALS (STAGE 2B)				102	1,261
	STAGE 2C	438+50 'WB'	-	440+39 'WB'	RT	10	115
		SUBTOTALS (STAGE 2C)				10	115
	STAGE 3A	490+14 'D'	-	493+38 'D'	LT	20	245
		493+58 'D'	-	497+00 'D'	LT	15	155
		499+57 'C'	-	502+77 'C'	LT	15	170
		SUBTOTALS (STAGE 3A)				50	570
	STAGE 3C	55+28	-	56+68	LT/RT	4	50
		SUBTOTALS (STAGE 3C)				4	50
	STAGE 3D	503+00 'B3'	-	509+00'B3'	LT	40	470
		SUBTOTALS (STAGE 3D)				40	470
	STAGE 3F	42+33	-	45+44	RT	25	301
		42+43	-	42+80	RT	1	4
		SUBTOTALS (STAGE 3F)				26	305
		UNDISTRIBUTED				104	1,462
		TOTALS				2,525	34,000

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

ASPHALTIC FLUMES

CATEGORY	STATION	LOCATION	465.0315 SY
0010	36+50	RT	10
	37+73	RT	20
	56+39	RT	6
	495+95 'A'	LT	6
	495+98 'A'	RT	6
	500+54 'B'	LT	6
	500+55 'B'	RT	6
	499+81 'C'	LT	6
	499+80 'C'	RT	6
	496+24 'D'	LT	6
	SUBTOTAL (0010)		78
0100	10+42'PK'	RT	3
	SUBTOTAL (0100)		3
	PROJECT TOTAL		81

ASPHALTIC SHOULDER RUMBLE STRIP

CATEGORY	STATION	-	STATION	LOCATION	465.0400 LF
0010	397+50 'EB'	-	413+00 'EB'	LT	1,550
	398+00 'WB'	-	413+00 'WB'	RT	1,500
	397+50 'EB'	-	413+00 'EB'	RT	1,550
	398+00 'WB'	-	413+00 'WB'	LT	1,500
	413+00 'EB'	-	525+00 'EB'	LT	11,200
	413+00 'EB'	-	485+08 'EB'	RT	7,210
	487+98 'EB'	-	510+71 'EB'	RT	2,260
	517+27 'EB'	-	525+00 'EB'	RT	770
	413+00 'WB'	-	525+00 'WB'	RT	11,250
	413+00 'WB'	-	478+78 'WB'	LT	6,590
	485+61 'WB'	-	507+86 'WB'	LT	2,240
	512+53 'WB'	-	525+00 'WB'	LT	1,250
	525+00 'EB'	-	545+00 'EB'	LT	2,000
	525+00 'WB'	-	545+00 'WB'	RT	2,000
	525+00 'EB'	-	545+00 'EB'	RT	2,000
	525+00 'WB'	-	545+00 'WB'	LT	2,000
				TOTAL	56,870

CONCRETE MASONRY ENDWALLS

CATEGORY	STAGE	STATION	LOCATION	504.0900 CY	REMARKS
0010	STAGE 2A	508+97 'B'	48' RT	6.5	FOR THREE PIPES AT 509+03 'EB'
	STAGE 3B	509+31 'C'	65' LT	6.0	FOR THREE PIPES AT 509+36 'WB'
			TOTAL	12.5	

APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE

CATEGORY	STRUCT. ID#	STATION	OFFSET	ALIGNMENT CHAIN	522.1012 12-INCH EACH	522.1015 15-INCH EACH
0010	10X	39+85	67.9'RT	STH 65	1	---
	20X	43+10	89.4'RT	STH 65	1	---
	30X	11+18	57.4'RT	EB2	---	1
	40X	10+60	46.6'RT	EB10	1	---
	50X	10+46	42.6'LT	EB7	1	---
	60X	11+75	42.5'LT	WB5	1	---
	70X	12+46	46.1'RT	WB9	1	---
	80X	11+99	40.4'RT	WB2	1	---
	90X	498+09	33.3'RT	C RAMP	1	---
	100X	55+76	73.8'RT	STH 65	1	---
	110X	59+00	100.3'LT	STH 65	1	---
	120X	62+35	80.'LT	STH 65	1	---
				TOTALS	11	1

CULVERT PIPE SUMMARY

CATEGORY	STAGE	STATION	LOCATION	520.0118 CULVERT PIPE CLASS III 18-INCH LF	520.1018 APRON ENDWALLS FOR CULVERT PIPE 18-INCH EACH*	522.0118 CULVERT PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	522.0124 24-INCH LF	522.0130 30-INCH LF	522.0136 36-INCH LF	522.0148 48-INCH LF	522.0160 60-INCH LF	522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH EACH	522.1024 24-INCH EACH	522.1030 30-INCH EACH	522.1036 36-INCH EACH	522.1048 48-INCH EACH	522.1060 60-INCH EACH	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH*	THICKNESS STEEL	THICKNESS ALUMINUM
0010	STAGE 1A	425+23 'EB'	166' LT	---	---	---	---	---	---	---	---	---	---	---	1	---	---	1	---	---
		425+78 'EB'	68' RT	---	---	---	---	---	40	---	---	---	---	---	---	---	---	1	---	---
		444+56 'EB'	53' RT	---	---	---	---	56	---	---	---	---	---	---	---	---	---	1	---	---
		447+40 'EB'	154' LT	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1	---	---
		40+11	LT/RT	---	---	---	148	---	---	---	163	---	2	---	---	---	2	1	---	---
		SUBTOTALS (STAGE 1A)		0	0	0	148	56	40	0	163	0	2	1	1	0	2	5		
	STAGE 1C-2	531+50 'EB'	2.3' LT	---	---	---	144	---	---	---	---	---	1	---	---	---	---	1	---	---
		SUBTOTALS (STAGE 1C-2)		0	0	0	144	0	0	0	0	0	1	0	0	0	0	1		
	STAGE 2A	406+97 'EB'	66' RT	---	---	18	---	---	---	---	---	1	---	---	---	---	---	1	---	---
		414+61 'EB'	164' LT	---	---	---	---	6	---	---	---	---	---	1	---	---	---	1	---	---
		415+77 'EB'	67' RT	---	---	---	---	122	---	---	---	---	---	1	---	---	---	1	---	---
		422+50 'EB'	30' LT	---	---	---	101	---	---	---	---	---	1	---	---	---	---	1	---	---
		425+87 'EB'	105' RT	---	---	---	---	---	38	---	---	---	---	---	1	---	---	1	---	---
		444+56 'EB'	53' RT	---	---	---	---	56	---	---	---	---	---	1	---	---	---	1	---	---
		474+85 'EB'	27' LT	---	---	---	---	98	---	---	---	---	---	1	---	---	---	1	---	---
		492+50 'A'	LT/RT	---	---	---	---	---	62	---	---	---	---	---	2	---	---	1	---	---
		495+00 'EB'	32' LT	---	---	---	---	---	103	---	---	---	---	---	1	---	---	1	---	---
		495+00 'EB'	32'LT	---	---	---	---	---	125	---	---	---	---	---	1	---	---	1	---	---
		505+17 'EB'	35' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
		505+75 'C'	35' LT	---	---	---	---	168	---	---	---	---	---	1	---	---	---	1	---	---
		527+02 'EB'	---	---	---	---	---	---	---	8	---	---	---	---	---	1	---	1	---	---
		SUBTOTALS (STAGE 2A)		0	0	18	101	450	328	8	0	1	1	5	5	1	0	13		
	STAGE 3B	427+75 'EB'	30' LT	---	---	---	---	101	---	---	---	---	---	1	---	---	---	1	---	---
		448+00 'EB'	31' LT	---	---	---	99	---	---	---	---	---	1	---	---	---	---	1	---	---
		459+00 'EB'	30' LT	---	---	---	---	101	---	---	---	---	---	1	---	---	---	1	---	---
		467+00 'EB'	28' LT	---	---	---	103	---	---	---	---	---	1	---	---	---	---	1	---	---
		474+85 'EB'	27' LT	---	---	---	---	115	---	---	---	---	---	---	---	---	---	1	---	---
		504+50 'C'	LT/RT	---	---	---	---	73	---	---	---	---	---	2	---	---	---	1	---	---
		515+00 'EB'	31' LT	---	---	---	118	---	---	---	---	---	1	---	---	---	---	1	---	---
		494+49 'D'	LT/RT	---	---	---	---	---	232	---	---	---	---	---	2	---	---	1	---	---
		497+00 'DB'	LT/RT	---	---	---	148	---	---	---	---	---	2	---	---	---	---	1	---	---
		SUTOTALS (STAGE 3B)		0	0	0	468	390	232	0	0	0	5	5	2	0	0	9		
		SUBTOTALS (0010)		0	0	18	861	896	600	8	163	1	9	11	8	1	2	28		
0100	PARK N RIDE	10+87 'PK'	LT/RT	71	2	---	---	---	---	---	---	---	---	---	---	---	---	1	0.064	0.060
		10+90 'PK'	LT/RT	68	2	---	---	---	---	---	---	---	---	---	---	---	---	1	0.064	0.060
		SUBTOTALS (0100)		139	4	0	0	0	0	0	0	0	0	0	0	0	0	2		
		PROJECT TOTALS		139	4	18	861	896	600	8	163	1	9	11	8	1	2	30		

TEMPORARY CULVERT PIPE SUMMARY

CATEGORY	STAGE	STATION	LOCATION	520.4018 CULVERT PIPE TEMPORARY 18-INCH LF	520.4024 24-INCH LF	520.4030 30-INCH LF	520.4048 48-INCH LF	520.1018 APRON ENDWALLS FOR CULVERT PIPE 18-INCH EACH*	520.1024 24-INCH EACH	524.0618 APRON ENDWALLS FOR CULVERT PIPE SALVAGED 18-INCH EACH	524.0624 24-INCH EACH	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH*	THICKNESS STEEL	THICKNESS ALUMINUM
0010	STAGE 1	402+00 'EB'	CROSSOVER	---	700	---	---	---	2	---	---	1	0.064	0.075
		507+00 'EB'	RT	---	---	16	---	---	---	---	---	---	0.079	0.075
		517+63 'C1'	LT/RT	---	45	---	---	---	---	---	---	1	0.064	0.075
		SUBTOTAL (STAGE 1)		0	745	16	0	0	2	0	0	2		
	STAGE 1A	414+84 'EB'	150' LT	---	17	---	---	---	---	---	1	1	0.064	0.075
		427+98 'EB'	136' LT	37	---	---	---	1	---	---	---	1	0.064	0.060
		447+97 'EB'	109' LT	31	---	---	---	---	---	1	---	1	0.064	0.060
		458+96 'EB'	120' LT	8	---	---	---	---	---	1	---	1	0.064	0.060
		467+01 'EB'	128' LT	38	---	---	---	---	---	1	---	1	0.064	0.060
		475+01 'EB'	124' LT	---	---	26	---	---	---	---	---	1	0.079	0.075
		505+00 'WB'	74' LT	---	18	---	---	---	---	---	---	---	0.064	0.075
		509+03 'EB'	147' LT	---	---	---	30	---	---	1	---	1	0.109	0.105
		516+04 'EB'	120' LT	29	---	---	---	---	---	---	---	1	0.064	0.060
		SUBTOTAL (STAGE 1A)		143	35	26	30	1	0	4	1	8		
	STAGE 1B	523+00 'C1'	LT/RT	136	---	---	---	---	---	---	1	1	0.064	0.060
		SUBTOTAL (STAGE 1B)		136	0	0	0	0	0	0	1	1		
	STAGE 1E	507+13 'B1'	16' LT	---	52	---	---	---	---	---	---	1	0.064	0.075
		SUBTOTAL (STAGE 1E)		0	52	0	0	0	0	0	0	1		
	STAGE 2	501+47 'C2'	LT/RT	---	36	---	---	---	---	---	---	1	0.064	0.075
		507+06 'B2'	LT/RT	---	54	---	---	---	---	---	---	1	0.064	0.075
		462+50 'D2'	LT/RT	---	84	---	---	---	---	---	---	1	0.064	0.075
		SUBTOTAL (STAGE 2)		0	174	0	0	0	0	0	0	3		
		SUBTOTALS (0010)		279	1,006	42	30	1	2	4	2	15		
0100		PARK AND RIDE		36	0	0	0	0	0	0	0	1	0.064	0.060
		SUBTOTALS (0100)		36	0	0	0	0	0	0	0	1		
		PROJECT TOTALS		315	1,006	42	30	1	2	4	2	16		

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL SUMMARY

CATEGORY	STAGE	STATION	LOCATION	523.0119 CLASS HE-III 19x30-INCH LF	523.0124 CLASS HE-III 24x38-INCH LF	523.0138 CLASS HE-III 38x60-INCH LF	523.0429 CLASS HE-IV 29X45-INCH LF	523.0519 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 19x30-INCH EACH	523.0524 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 24x38-INCH EACH	523.0529 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 29X45-INCH EACH	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH*
0010	STAGE 1A	35+91	44' RT	---	---	---	166	---	---	2	1
		36+02	52' RT	---	---	---	155	---	---	2	1
		SUBTOTALS (STAGE 1A)		0	0	0	321	0	0	4	2
	STAGE 2A	440+00 'EB'	31' LT	100	---	---	---	1	---	---	1
		505+17 'EB'	35' LT	---	90	---	---	---	1	---	1
		508+94 'EB'	---	---	---	145	---	---	---	---	1
		509+03 'EB'	---	---	---	145	---	---	---	---	1
		509+11 'EB'	---	---	---	145	---	---	---	---	1
		SUBTOTALS (STAGE 2A)		100	90	435	0	1	1	0	5
	STAGE 3B	508+94 'EB'	30' LT	---	---	118	---	---	---	---	1
		509+03 'EB'	30' LT	---	---	118	---	---	---	---	1
		509+11 'EB'	30' LT	---	---	118	---	---	---	---	1
		SUTOTALS (STAGE 3B)		0	0	354	0	0	0	0	3
			TOTALS	100	90	789	321	1	1	4	10

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

CULVERT PIPE CONCRETE COLLAR

CATEGORY	STAGE	STATION	LOCATION	520.8000.S EACH
0010	STAGE 1A	414+84 'EB'	150' LT	1
		427+98 'EB'	136' LT	1
		447+97 'EB'	109' LT	1
		458+96 'EB'	120' LT	1
		467+01 'EB'	128' LT	1
		475+01 'EB'	124' LT	1
		505+00 'WB'	74' LT	1
		507+00 'EB'	44' RT	1
		509+03 'EB'	147' LT	3
		516+04 'EB'	120' LT	1
		40+10	---	1
		SUBTOTALS (STAGE 1A)		13
	STAGE 2A	406+97 'EB'	66' RT	1
		425+78 'EB'	68' RT	1
		527+02 'EB'	55' RT	1
		SUBTOTALS (STAGE 2A)		3
		TOTAL		16

CONCRETE SIDEWALK SUMMARY

CATEGORY	STATION	-	STATION	LOCATION	602.0405 CONCRETE SIDEWALK 4-INCH SF	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF	SPV.0165.01 COLORED CONCRETE SIDEWALK 4-INCH SF	SPV.0165.03 CURE AND SEAL TREATMENT CONCRETE SIDEWALK SF	REMARKS
0010	37+02	-	37+12	RT	150	---	---	150	---
	39+05	-	39+20	LT/RT	80	---	---	80	---
	51+66	-	52+18	LT/RT	---	---	1,350	---	---
	53+91	-	55+50	LT/RT	---	---	3,650	---	---
	62+26	-	62+40	LT/RT	70	---	---	70	---
	SUBTOTALS (0010)				300	0	5,000	300	
0100	11+23 'PK'	-	11+67 'PK'	RT	700	8	---	700	BUS PAD
	11+36 'PK'	-	11+45 'PK'	RT	135	---	---	135	CURB ISLAND
	11+63 'PK'	-	11+78 'PK'	RT	170	---	---	170	CURB ISLAND
	11+86 'PK'	-	12+01 'PK'	RT	170	---	---	170	CURB ISLAND
	13+49 'PK'	-	13+57 'PK'	RT	300	---	---	300	CURB ISLAND
	SUBTOTALS (0100)				1,475	8	0	1,475	
	PROJECT TOTALS				1,775	8	5,000	1,775	

CONCRETE CURB AND GUTTER ITEMS

CATEGORY	STATION	-	STATION	LOCATION	601.0105 CONCRETE CURB TYPE A LF	601.0115 CONCRETE CURB TYPE G LF	601.0409 CONCRETE CURB & GUTTER 30-INCH TYPE A LF	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	601.0551 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A LF	601.0555 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A LF	601.0557 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D LF	601.0580 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R LF	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF	SPV.0090.13 CONCRETE CURB & GUTTER 32-INCH SPECIAL LF	SPV.0090.01 CURE AND SEAL TREATMENT CONCRETE CURB AND GUTTER LF	SPV.0090.08 CURE AND SEAL TREATMENT CONCRETE CURB LF
0010	35+97	-	36+65	RT	---	---	---	---	---	100	---	---	---	---	100	---
	37+19	-	37+66	RT	---	---	---	---	---	73	---	---	---	---	73	---
	37+01	-	37+13	RT	---	60	---	---	---	---	---	---	---	---	---	60
	38+97	-	45+73	RT	---	---	661	---	---	---	---	---	---	---	661	---
	39+05	-	41+56	RT	---	---	---	---	257	---	---	---	---	---	257	---
	39+05	-	41+56	LT	---	---	---	---	251	---	---	---	---	---	251	---
	41+56	-	45+53	RT	---	---	388	---	---	---	---	---	---	---	388	---
	41+56	-	45+51	LT	---	---	412	---	---	---	---	---	---	---	412	---
	44+26	-	498+13	LT	---	---	157	---	---	---	---	---	---	---	157	---
	45+55	-	---	LT/RT	---	---	81	---	---	---	---	---	---	---	81	---
	45+79	-	47+17	LT/RT	---	---	---	---	---	---	---	418	---	---	418	---
	45+95	-	46+97	LT/RT	303	---	---	---	---	---	---	---	---	---	---	303
	46+38	-	47+00	RT	---	---	---	---	65	---	---	---	---	---	65	---
	46+25	-	46+75	LT	---	---	---	---	50	---	---	---	---	---	50	---
	46+75	-	48+33	LT	---	---	163	---	---	---	---	---	---	---	163	---
	47+00	-	48+13	RT	---	---	92	---	---	---	---	---	---	---	92	---
	47+35	-	47+38	LT/RT	---	---	---	---	33	---	---	---	---	---	33	---
	47+40	-	47+81	MEDIAN	---	---	---	---	47	---	---	---	---	---	47	---
	47+41	-	47+81	LT	---	---	---	---	40	---	---	---	---	---	40	---
	47+69	-	48+13	RT	---	---	---	---	---	---	---	---	---	44	44	---
	51+04	-	53+50	RT	---	---	232	---	---	---	---	---	---	---	232	---
	51+25	-	51+65	LT	---	---	---	---	---	---	---	---	---	44	44	---
	51+65	-	53+18	LT	---	---	172	---	---	---	---	---	---	---	172	---
	51+67	-	52+18	RT	---	---	56	---	---	---	---	---	---	---	56	---
	51+67	-	52+19	LT	---	---	57	---	---	---	---	---	---	---	57	---
	52+21	-	52+22	LT/RT	---	---	45	---	---	---	---	---	---	---	45	---
	52+40	-	53+69	LT/RT	---	---	---	---	---	---	---	390	---	---	390	---
	52+55	-	53+53	LT/RT	311	---	---	---	---	---	---	---	---	---	---	311
	53+83	-	53+86	LT/RT	---	---	61	---	---	---	---	---	---	---	61	---
	53+82	-	54+16	LT	---	---	36	---	---	---	---	---	---	---	36	---
	53+86	-	59+94	LT	---	---	612	---	---	---	---	---	---	---	612	---
	53+90	-	59+94	RT	---	---	611	---	---	---	---	---	---	---	611	---
	54+33	-	54+64	RT	---	---	---	---	50	---	---	---	---	---	50	---
	54+16	-	55+42	LT	---	---	---	---	108	---	---	---	---	---	108	---
	54+64	-	56+39	RT	---	---	173	---	---	---	---	---	---	---	173	---
	55+42	-	56+85	LT	---	---	149	---	---	---	---	---	---	---	149	---
	59+94	-	62+42	RT	---	---	---	---	245	---	---	---	---	---	245	---
	59+94	-	62+42	LT	---	---	---	---	250	---	---	---	---	---	250	---
	496+02 'A'	-	497+07 'A'	LT	---	---	109	---	---	---	---	---	---	---	109	---
	497+07 'A'	-	497+50 'A'	LT	---	---	---	---	51	---	---	---	---	---	51	---
	496+06 'A'	-	498+12 'A'	RT	---	---	198	---	---	---	---	---	---	---	198	---
	498+95 'B'	-	500+55 'B'	RT	---	---	160	---	---	---	---	---	---	---	160	---
	499+43 'B'	-	500+55 'B'	LT	---	---	---	---	111	---	---	---	---	---	111	---
	496+29 'C'	-	497+63 'C'	LT	---	---	---	---	103	---	---	---	---	---	103	---
	496+77 'C'	-	498+12 'C'	LT/RT	---	---	---	---	251	---	---	---	---	---	251	---
	497+16 'C'	-	499+80 'C'	RT	---	---	263	---	---	---	---	---	---	---	263	---
	497+63 'C'	-	499+80 'C'	LT	---	---	233	---	---	---	---	---	---	---	233	---
	496+31 'D'	-	497+22 'D'	RT	---	---	91	---	---	---	---	---	---	---	91	---
	496+31 'D'	-	497+69 'D'	LT	---	---	144	---	---	---	---	---	---	---	144	---
SUBTOTALS (0010)					614	60	5,356	0	1,912	173	0	808	0	88	8,337	674
0100	10+52 'PK'	-	10+82 'PK'	LT	---	---	---	---	---	---	44	---	---	---	44	---
	10+45 'PK'	-	11+01 'PK'	RT	---	---	---	---	---	---	73	---	---	---	73	---
	11+23 'PK'	-	11+67 'PK'	RT	50	---	---	---	---	---	---	---	50	---	---	50
	11+36 'PK'	-	11+45 'PK'	RT	---	---	---	88	---	---	---	---	88	---	88	---
	11+63 'PK'	-	11+78 'PK'	RT	---	---	---	91	---	---	---	---	91	---	91	---
	11+86 'PK'	-	12+01 'PK'	RT	---	---	---	91	---	---	---	---	91	---	91	---
	13+49 'PK'	-	13+57 'PK'	RT	---	---	---	219	---	---	---	---	219	---	219	---
SUBTOTALS (0100)					50	0	0	489	0	0	117	0	539	0	606	50
PROJECT TOTALS					664	60	5,356	489	1,912	173	117	808	539	88	8,943	724

CONCRETE BARRIER TEMPORARY PRECAST

CATEGORY	STAGE	STATION		STATION	LOCATION	603.8000 DELIVERED LF	603.8125 INSTALLED LF	614.0905 CRASH CUSHIONS TEMPORARY EACH
0010	1A	403+50 'WB'	-	477+00 'WB'	LT	7,359	7,359	---
		477+00 'D1'	-	493+10 'D1'	LT	1,604	1,604	1
		495+75 'WB'	-	500+47 'WB'	RT	470	470	1
		483+48 'EB'	-	521+00 'EB'	LT	3,759	3,759	1
		486+00 'WB'	-	508+54 'WB'	LT	2,265	2,265	1
		513+00 'WB'	-	535+90 'WB'	LT	2,335	2,335	1
				SUBTOTALS (STAGE 1A)		17,792	17,792	5
	1B	403+50 'WB'	-	421+48 'WB'	LT	1,010	1,807	1
		466+15 'WB'	-	476+50 'WB'	LT	---	1,050	1
		478+25 'WB'	-	508+50 'WB'	LT	3,050	3,050	1
		479+50 'WB'	-	484+68 'WB'	LT	---	516	---
		486+00 'D1'	-	488+58 'D1'	LT	263	263	1
		484+61 'D1'	-	493+17 'D1'	RT	---	850	1
		526+00 'WB'	-	---	LT	---	---	1
				SUBTOTALS (STAGE 1B)		4,323	7,536	6
	1C	497+25 'WB'	-	502+80 'WB'	LT	---	1,180	1
		491+25 'WB'	-	495+75 'WB'	LT	475	475	---
		495+75 'WB'	-	500+47 'WB'	LT	---	470	---
		500+47 'WB'	-	505+50 'WB'	LT	506	506	---
		505+25 'WB'	-	510+84 'WB'	LT	575	575	1
		508+55 'WB'	-	513+00 'WB'	LT	447	447	---
		520+00 'C1'	-	524+00 'C1'	LT	410	410	1
				SUBTOTALS (STAGE 1C)		2,413	4,063	3
	1D	406+10 'WB'	-	411+42 'WB'	LT	555	555	1
		409+00 'WB'	-	491+32 'WB'	RT	8,238	8,238	1
		411+42 'WB'	-	413+39 'WB'	LT	---	200	---
		491+75 'WB'	-	508+38 'WB'	RT	1,662	1,662	1
		508+12 'WB'	-	525+50 'WB'	RT	1,780	1,780	---
		525+80 'WB'	-	532+50 'WB'	LT	670	670	1
				SUBTOTALS (STAGE 1D)		12,905	13,105	4
	2A	491+55 'A1'	-	497+38 'A1'	RT	580	580	---
		491+77 'A1'	-	493+55 'A1'	LT	180	180	1
		505+03 'B1'	-	509+18 'B1'	LT	416	416	1
		506+92 'B1'	-	508+75 'B1'	RT	180	180	1
				SUBTOTALS (STAGE 2A)		1,356	1,356	3
	2B	411+75 'EB'	-	438+52 'EB'	LT	2,680	2,680	1
		412+47 'EB'	-	421+00 'EB'	RT	850	850	1
		432+47 'EB'	-	435+97 'EB'	RT	355	355	1
		438+61 'EB'	-	490+07 'EB'	LT	5,150	5,150	1
		445+47 'EB'	-	455+00 'EB'	RT	955	955	1
		470+47 'EB'	-	492+96 'EB'	RT	2,340	2,340	1
		509+00 'EB'	-	526+00 'EB'	LT	1,700	1,700	1
		27+64	-	36+50	LT	888	888	2
		45+82	-	55+61	RT	979	979	2
				SUBTOTALS (STAGE 2B)		15,897	15,897	11
	2C	488+56 'EB'	-	502+93 'EB'	LT	1,425	1,425	2
		495+99 'EB'	-	499+00 'EB'	RT	295	295	1
		502+90 'EB'	-	509+00 'EB'	LT	615	615	---
		509+26 'WB'	-	---	RT	---	---	1
				SUBTOTALS (STAGE 2C)		2,335	2,335	4
	3A	405+00 'EB'	-	532+00 'EB'	RT	12,685	12,685	2
		434+82 'EB'	-	439+00 'EB'	LT	60	420	1
		438+45 'EB'	-	440+09 'EB'	LT	170	170	1
				SUBTOTALS (STAGE 3A)		12,915	13,275	4
	3B	490+14 'D2'	-	491+88 'D2'	LT	165	165	1
		489+87 'D2'	-	493+00 'D2'	RT	316	316	1
		501+51 'C2'	-	502+04 'C2'	RT	130	130	1
		501+60 'C2'	-	502+73 'C2'	LT	105	105	---
				SUBTOTALS (STAGE 3B)		716	716	3
	3C	438+45 'WB'	-	440+09 'WB'	RT	170	170	1
		438+50 'WB'	-	439+00 'WB'	RT	50	50	1
				SUBTOTALS (STAGE 3C)		220	220	2
	3D	413+15 'WB'	-	---	RT	---	---	1
		488+00 'WB'	-	488+00 'EB'	RT	---	---	1
				SUBTOTALS (STAGE 3D)		---	---	2
	3E	518+00 'EB'	-	---	RT	---	---	1
	3F	37+68	-	40+00	RT	236	236	2
		42+89	-	45+61	RT	274	274	2
				SUBTOTALS (STAGE 3F)		510	510	4
				UNDISTRIBUTED		234	811	1
					TOTALS	71,616	77,616	53

RIPRAP SUMMARY

CATEGORY	STAGE	STATION	LOCATION	606.0200 RIPRAP MEDIUM CY	606.0300 RIPRAP HEAVY CY	645.0120 GEOTEXTILE FABRIC TYPE HR SY
0010	STAGE 1	425+20'WB'	LT	---	12	30
		447+45'WB'	LT	---	10	25
		448+50 'WB'	LT	50	---	140
		495+45'DB'	LT	---	12	30
		497+00'DB'	LT	6	---	20
		39+85'65NB'	RT	17	---	50
		40+08'65NB'	RT	---	18	45
		44+72'65NB'	RT	12	---	40
		497+17'A'	LT	17	---	55
		499+96'B'	LT	40	---	145
		497+51'C'	RT	18	---	60
		498+09'C'	RT	12	---	40
		496+68'D'	RT	40	---	130
		54+50'65NB'	RT	10	---	35
		56+35'65NB'	RT	5	---	15
		SUBTOTALS (STAGE 1)		227	52	860
	STAGE 2	414+60'WB'	LT	---	10	25
		422+50'EB'	RT	6	---	20
		428+00'EB'	RT	145	---	380
		440+00'EB'	RT	7	---	25
		469+00'EB'	RT	250	---	580
		509+00'EB'	LT	---	35	80
		495+15'WB'	LT	---	15	30
		505+75'WB'	LT	---	10	25
		492+50 'A'	LT	---	15	30
		SUBTOTALS (STAGE 2)		408	85	1,195
	STAGE 3	427+75'WB'	LT	20	---	60
		432+00'WB'	LT	90	---	250
		449+75'WB'	LT	23	---	65
		459+00'WB'	LT	15	---	45
		467+00'WB'	LT	25	---	75
		475+00'WB'	LT	---	130	280
		43+10'65NB'	RT	20	---	55
		59+00'65NB'	LT	6	---	25
		62+35'65NB'	LT	6	---	25
		504+50'C'	LT	---	10	25
		509+50'WB'	LT	---	33	70
		515+40'WB'	LT	6	---	20
		SUBTOTALS (STAGE 3)		211	173	995
		UNDISTRIBUTED		200	80	725
		TOTALS		1,046	390	3,775

STORM SEWER

CATEGORY	FROM STRUCTURE	TO STRUCTURE	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0315 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 15-INCH LF
0010	10A	10C	19	---
	10B	10C	9	---
	10C	10D	23	---
	10D	10E	32	---
	20A	20B	48	---
	20B	20D	19	---
	20C	20B	25	---
	20D	20X	40	---
	30	30C	---	65
	30A	30B	21	---
	30B	30	30	---
	30C	30X	---	56
	30D	30E	10	---
	30E	30F	35	---
	30F	30	45	---
	30G	30C	34	---
	40A	40X	67	---
	50A	50X	54	---
	60A	60X	58	---
	70A	70B	8	---
	70B	70C	23	---
	70C	70X	80	---
	80A	80X	44	---
	90A	90B	19	---
	90B	90C	10	---
	90C	90D	19	---
	90D	90X	26	---
	100A	100X	38	---
	100B	100A	27	---
	100C	100B	27	---
	100D	100C	30	---
	100E	100D	47	---
	110A	110B	40	---
	110B	110X	64	---
	110C	110B	10	---
	120A	120C	8	---
	120B	120A	10	---
	120C	120X	71	---
	120D	120C	10	---
		TOTALS	1,180	121

BEAM GUARD SUMMARY

CATEGORY	STATION		STATION	LOCATION	614.0220 STEEL THRIE BEAM BULLNOSE TERMINAL EACH	614.0230 STEEL THRIE BEAM LF	614.0305 STEEL PLATE BEAM GUARD CLASS A LF	614.0370 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL EACH	614.0395 GUARDRAIL MOW STRIP CONCRETE SY	614.2300 MGS GUARDRAIL 3 LF	614.2500 MGS THRIE BEAM TRANSITION LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH	614.2620 MGS GUARDRAIL TERMINAL TYPE 2 EACH
0010	399+00 'WB'	-	400+25 'WB'	RT	---	---	125	---	50	---	---	---	---
	400+25 'WB'	-	400+75 'WB'	RT	---	---	---	1	35	---	---	---	---
	403+80 'WB'	-	407+05 'WB'	LT	---	---	325	---	125	---	---	---	---
	407+05 'WB'	-	407+55 'WB'	LT	---	---	---	1	35	---	---	---	---
	494+62 'A'	-	495+92 'A'	LT	---	---	---	---	60	75	---	1	1
	495+03 'A'	-	495+97 'A'	RT	---	---	---	---	50	50	---	1	1
	498+56 'C'	-	499+46 'C'	LT	---	---	---	---	50	50	---	1	1
	498+47 'C'	-	499+49 'C'	RT	---	---	---	---	50	50	---	1	1
	55+75 '65'	-	56+75 '65'	LT	---	---	---	---	50	50	---	1	1
	51+22 '65'	-	52+13 '65'	LT	---	---	---	---	50	13	40	1	---
	47+39 '65'	-	48+15 '65'	RT	---	---	---	---	45	---	40	1	---
	496+71	-	498+76	MEDIAN	2	150	---	---	---	---	---	---	---
				TOTALS	2	150	450	2	600	288	80	7	5

INLETS, MANHOLES, MANHOLE COVERS, AND INLET COVERS

CATEGORY	STRUCT. ID#	STATION	OFFSET	ALIGNMENT CHAIN	611.0201 MANHOLES TYPE 1 EACH	611.0302 INLETS TYPE 2 EACH	611.0303 INLETS TYPE 3 EACH	611.0305 INLETS TYPE 8 EACH	611.0307 INLETS TYPE 9 EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0624 INLET COVERS TYPE H EACH	611.0627 INLET COVERS TYPE HM EACH	611.0636 INLET COVERS TYPE HM-S EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0642 INLET COVERS TYPE MS EACH	611.0652 INLET COVERS TYPE T EACH	650.4000 CONSTRUCTION STAKING STORM SEWER EACH
0010	10A	39+76	11.4'LT	STH 65	---	---	1	---	---	---	---	---	1	---	---	---	1
	10B	39+85	7.1'RT	STH 65	---	---	1	---	---	---	---	---	1	---	---	---	1
	10C	39+76	6.2'RT	STH 65	---	---	1	---	---	---	---	---	1	---	---	---	1
	10D	39+76	29.5'RT	STH 65	---	---	1	---	---	---	---	1	---	---	---	---	1
	20A	43+05	22.4'LT	STH 65	---	---	1	---	---	---	1	---	---	---	---	---	1
	20B	43+00	25.6'RT	STH 65	---	---	1	---	---	---	1	---	---	---	---	---	1
	20C	42+75	26.5'RT	STH 65	---	---	1	---	---	---	1	---	---	---	---	---	1
	20D	43+00	44.7'RT	STH 65	---	---	1	---	---	---	1	---	---	---	---	---	1
	30	10+93	21.8'LT	EB3	1	---	---	---	---	1	---	---	---	---	---	---	1
	30A	11+00	1.5'LT	EB5	---	---	1	---	---	---	1	---	---	---	---	---	1
	30B	11+00	1.5'RT	EB4	---	---	1	---	---	---	1	---	---	---	---	---	1
	30C	11+10	1.5'RT	EB2	---	---	1	---	---	---	1	---	---	---	---	---	1
	30D	10+55	2.0'LT	EB1	---	1	---	---	---	---	---	---	---	---	---	1	1
	30E	10+45	2.0'LT	EB1	---	1	---	---	---	---	---	---	---	---	---	1	1
	30F	10+45	32.5'RT	EB1	---	---	1	---	---	---	---	---	---	1	---	---	1
	30G	10+75	1.5'RT	EB2	---	---	1	---	---	---	1	---	---	---	---	---	1
	40A	10+12	2.0'RT	EB10	---	---	1	---	---	---	---	---	1	---	---	---	1
	50A	10+10	2.0'LT	EB7	---	---	1	---	---	---	---	1	---	---	---	---	1
	60A	12+10	1.5'LT	WB5	---	---	1	---	---	---	1	---	---	---	---	---	1
	70A	10+55	2.0'LT	WB1	---	1	---	---	---	---	---	---	---	---	---	1	1
	70B	10+46	2.0'LT	WB1	---	1	---	---	---	---	---	---	---	---	---	1	1
	70C	10+46	20.5'RT	WB1	---	---	1	---	---	---	---	---	---	1	---	---	1
	80A	12+25	1.5'RT	WB2	---	---	1	---	---	---	1	---	---	---	---	---	1
	90A	10+60	1.5'RT	WB9	---	---	1	---	---	---	1	---	---	---	---	---	1
	90B	10+40	2.0'LT	WB10	---	---	1	---	---	---	---	1	---	---	---	---	1
	90C	10+40	2.0'RT	WB11	---	---	1	---	---	---	---	1	---	---	---	---	1
	90D	498+05	1.5'RT	C RAMP	---	---	1	---	---	---	1	---	---	---	---	---	1
	100A	56+35	36.'RT	STH 65	---	---	1	---	---	---	1	---	---	---	---	---	1
	100B	56+35	9.0'RT	STH 65	---	---	1	---	---	---	1	---	---	---	---	---	1
	100C	56+35	17.8'LT	STH 65	---	---	1	---	---	---	1	---	---	---	---	---	1
	100D	56+35	47.9'LT	STH 65	---	---	1	---	---	---	1	---	---	---	---	---	1
	100E	56+80	57.1'LT	STH 65	---	---	1	---	---	---	1	---	---	---	---	---	1
	110A	59+00	9.9'RT	STH 65	---	---	1	---	---	---	1	--	---	---	---	---	1
	110B	59+00	30.4'LT	STH 65	---	---	1	---	---	---	1	---	---	---	---	---	1
	110C	59+10	30.7'LT	STH 65	---	---	1	---	---	---	1	---	---	---	---	---	1
	120A	62+35	4.5'RT	STH 65	---	---	1	---	---	---	---	1	---	---	---	---	1
	120B	62+25	4.7'RT	STH 65	---	---	1	---	---	---	---	1	---	---	---	---	1
	120C	62+35	2.5'LT	STH 65	---	---	1	---	---	---	---	1	---	---	---	---	1
	120D	62+25	3.7'LT	STH 65	---	---	1	---	---	---	---	1	---	---	---	---	1
---	415+25 'EB'	36.0'LT		ML_EB	---	---	---	---	1	---	---	---	---	---	1	---	1
---	422+50 'EB'	30.0'LT		ML_EB	---	---	---	1	---	---	---	---	---	---	2	---	1
---	427+75 'EB'	30.0'LT		ML_EB	---	---	---	---	1	---	---	---	---	---	2	---	1
---	440+00 'EB'	31.0'LT		ML_EB	---	---	---	---	1	---	---	---	---	---	2	---	1
---	448+00 'EB'	31.0'LT		ML_EB	---	---	---	1	---	---	---	---	---	---	1	---	1
---	459+00 'EB'	30.0'LT		ML_EB	---	---	---	---	1	---	---	---	---	---	2	---	1
---	467+00 'EB'	28.0'LT		ML_EB	---	---	---	1	---	---	---	---	---	---	1	---	1
---	474+85 'EB'	27.0'LT		ML_EB	---	---	---	---	1	---	---	---	---	---	2	---	1
---	495+00 'EB'	32.0'LT		ML_EB	---	---	---	---	1	---	---	---	---	---	2	---	1
---	505+17 'EB'	35.0'LT		ML_EB	---	---	---	---	1	---	---	---	---	---	2	---	1
---	515+00 'EB'	31.0'LT		ML_EB	---	---	---	1	---	---	---	---	---	---	1	---	1
---	531+50 'EB'	2.0'LT		ML_EB	---	---	---	1	---	---	---	---	---	---	1	---	1
					---	---	---	---	---	---	---	---	---	---	---	---	1
				TOTALS	1	4	34	5	7	1	20	8	4	2	19	4	52

ELIMINATED COVER TYPE HM
10A, 120B, 120D

ELIMINATED INLET COVER TYPE H
100A, 100B, 120A

Eliminated INLET TYPE 3 100A, 100B,110A,120A,120B,120D

COVER PLATES TEMPORARY

CATEGORY	STAGE	STATION	LOCATION	611.8120.S EACH
0010	STAGE 1	406+97 'EB'	43.5' LT	1
		491+78 'EB'	33.0' LT	1
		39+76 '65NB'	6.7' RT	1
		39+76 '65NB'	29.5' RT	1
		39+85 '65NB'	7.6' RT	1
		45+00 '65NB'	50.7' LT	1
		45+00 '65NB'	0.0' RT	1
		45+05 '65NB'	64.8' RT	1
		53+62 '65NB'	21.7' LT	1
		53+65 '65NB'	13.9' LT	1
		53+86 '65NB'	20.4' LT	1
		56+35 '65NB'	47.8' LT	1
		56+35 '65NB'	17.8' LT	1
		56+35 '65NB'	9.0' RT	1
		56+35 '65NB'	36.0' RT	1
		497+51 'A'	22.6' LT	1
		499+42 'B'	9.4' LT	1
		497+17 'C'	12.9' RT	1
		497+23 'D'	11.0' RT	1
	SUBTOTAL (STAGE 1)			19
	STAGE 3	39+76 '65NB'	11.9' LT	1
		42+75 '65NB'	26.5' RT	1
		43+00 '65NB'	25.6' RT	1
		43+00 '65NB'	44.7' RT	1
		43+05 '65NB'	22.4' LT	1
		44+75 '65NB'	46.8' RT	1
		45+00 '65NB'	30.2' LT	1
		56+80 '65NB'	57.0' LT	1
		59+00 '65NB'	30.4' LT	1
		59+00 '65NB'	9.9' RT	1
		59+10 '65NB'	30.7' LT	1
		62+25 '65NB'	4.2' LT	1
		62+25 '65NB'	5.2' RT	1
		62+35 '65NB'	3.0' LT	1
		62+35 '65NB'	5.0' RT	1
		498+05 'C'	1.5' RT	1
		498+06 'C'	17.5' LT	1
		498+07 'C'	26.9' LT	1
		498+13 'C'	45.2' LT	1
	SUBTOTAL (STAGE 3)			19
	UNDISTRIBUTED			15
	TOTAL			53

MOBILIZATION

CATEGORY	619.1000 EACH
0010	1

RECONSTRUCTING INLETS SUMMARY

CATEGORY	STAGE	STATION	LOCATION	611.0430 EACH
0010	STAGE 1	527+04 'EB'	32' LT	1
		SUBTOTAL (STAGE 1)		1
	STAGE 2	458+96 'EB'	32' LT	1
		466+98 'EB'	30' LT	1
		SUBTOTAL (STAGE 2)		2
		TOTAL		3

PIPE GRATES

CATEGORY	STATION	LOCATION	611.9800.S EACH	REMARKS
0010	474+85	RT	1	30"
	505+00	RT	1	24" x 38"
	35+96	RT	1	29" x 45"
	36+07	RT	1	29" x 45"
	37+62	RT	1	29" x 45"
	37+63	RT	1	29" x 45"
	40+06	RT	1	60"
	40+11	LT	1	60"
		TOTAL	8	

MOBILIZATIONS EROSION CONTROL

CATEGORY	STAGE	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
0010	STAGE 1	6	6
	STAGE 2	3	3
	STAGE 3	7	7
	UNDISTRIBUTED	---	5
	TOTALS	16	21

FENCE WOVEN WIRE

CATEGORY	STATION	-	STATION	LOCATION	616.0100.01 4.5-FT LF
0010	413+00 'EB'	-	491+03 'EB'	LT	7,904
	461+37 'EB'	-	475+07 'EB'	LT	16
	413+00 'EB'	-	491+13 'EB'	RT	7,819
	499+51 'EB'	-	525+00 'EB'	LT	2,938
	506+00 'EB'	-	525+00 'EB'	RT	1,904
	36+38	-	45+58.6	LT	1,228
	37+29	-	42+46.7	RT	883
	52+54.2	-	63+72	LT	1,222
	57+32.6	-	63+96	RT	866
				TOTAL	24,780

CONCRETE MEDIAN SLOPED NOSE

CATEGORY	STATION	OFFSET	620.0300 (TYPE 1) SF	620.0300 (TYPE 2) SF	SPV.0165.04 CURE AND SEAL TREATMENT CONCRETE MEDIAN SLOPED NOSE SF
0010	38+98	2.7' LT	69	---	69
	45+54	39.9' RT	---	31	31
	45+54	42.6' LT	---	65	65
	47+37	17.8' RT	---	51	51
	47+40	18.1' LT	---	27	27
	47+82	1.7' LT	67	---	67
	51+59	2.3' RT	67	---	67
	52+20	25.0' RT	---	36	36
	52+21	22.8' LT	---	48	48
	53+87	32.5' RT	---	48	48
	53+84	31.1' LT	---	36	36
	62+40	1.2' RT	69	---	69
	497+56 'A'	15.5' LT	---	28	28
	499+36 'B'	0.6' LT	---	37	37
	496+68 'C'	33.2' LT	---	40	40
	498+12 'C'	21.3' LT	68	---	68
		SUBTOTALS	340	447	787
		TOTALS	787		787

FINISHING ITEMS

CATEGORY	STAGE	STATION	-	STATION	LOCATION	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	628.6510 SOIL STABILIZER TYPE B ACRE	629.0210 FERTILIZER TYPE B CWT	630.0200 SEEDING TEMPORARY LB	630.0130 SEEDING MIXTURE NO. 30 LB	630.0300 SEEDING BORROW PIT LB
0010	STAGE 1	399+00 'EB'	-	531+00 'EB'	LT/MED	---	---	---	---	2,150	---	---
		32+50'S1'	-	64+50'S1'	LT	---	9,200	---	---	330	---	---
		32+50'S2'	-	64+00'S2'	RT	---	850	---	---	70	---	---
		491+00'A1'	-	495+50'A1'	LT/RT	---	1,400	---	---	40	---	---
		504+00'B1'	-	510+00'B1'	LT/RT	---	1,200	---	---	35	---	---
		516+68'C1'	-	526+00'C1'	LT/RT	---	5,100	---	---	140	---	---
		484+67'D1'	-	492+50'D1'	LT	---	6,000	---	---	160	---	---
		SUBTOTALS (STAGE 1)				0	23,750	0	0	2,925	0	0
	STAGE 2	413+00 'EB'	-	525+00 'EB'	MED	---	---	---	---	1,000	---	---
		400+00 'EB'	-	537+00 'EB'	RT	88,500	33,600	---	60	2,600	2,600	---
		486+35'A'	-	497+50'A'	LT/RT	12,000	3,450	---	8	355	355	---
		499+50'B'	-	505+50'B'	LT/RT	10,200	---	---	7	290	295	---
		492+00'A2'	-	496+50'A2'	LT/RT	---	820	---	---	25	---	---
		504+52'B2'	-	510+42'B2'	LT/RT	---	3,400	---	---	95	---	---
		499+61'C2'	-	504+00'C2'	LT/RT	---	1,900	---	---	55	---	---
		489+09'D2'	-	497+00'D2'	LT/RT	---	3,200	---	---	90	---	---
		SUBTOTALS (STAGE 2)				110,700	46,370	0	75	4,510	3,250	0
	STAGE 3	405+00 'EB'	-	531+00 'EB'	LT/MED	93,000	89,500	---	72	3,100	3,100	---
		497+50'C'	-	509+50'C'	LT/RT	11,950	8,600	---	9	360	355	---
		482+78'D'	-	497+00'D'	LT/RT	15,350	14,800	---	11	460	455	---
		493+75'DB'	-	500+00'DB'	LT/RT	6,800	3,100	---	5	200	200	---
		33+10.35	-	64+00	LT/MED/RT	27,200	23,600	---	18	---	740	---
		503+00'B3'	-	509+00'B3'	LT/RT	---	1,700	---	---	45	---	---
		SUBTOTALS (STAGE 3)				154,300	141,300	0	115	4,165	4,850	0
		UNDISTRIBUTED				---	---	5	20	1,160	810	1,000
		TOTALS				265,000	211,420	5	210	12,760	8,910	1,000

SILT FENCE

CATEGORY	STAGE	STATION	-	STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF
0010	STAGE 1	404+32 'WB'	-	406+99 'WB'	LT	285	285
		412+59 'WB'	-	414+35 'WB'	LT	181	181
		414+91 'WB'	-	415+83 'WB'	LT	98	98
		416+25 'WB'	-	417+01 'WB'	LT	82	82
		428+66 'WB'	-	429+48 'WB'	LT	82	82
		430+21 'WB'	-	431+00 'WB'	LT	78	78
		445+47 'WB'	-	447+35 'WB'	LT	189	189
		447+81 'WB'	-	448+24 'WB'	LT	43	43
		456+00 'WB'	-	458+77 'WB'	LT	280	280
		459+33 'WB'	-	464+25 'WB'	LT	497	497
		464+68 'WB'	-	466+77 'WB'	LT	214	214
		467+20 'WB'	-	474+90 'WB'	LT	772	772
		507+20 'WB'	-	508+80 'WB'	LT	190	190
		509+25 'WB'	-	514+54 'WB'	LT	550	550
		525+27 'WB'	-	531+16 'WB'	LT	593	593
		SUBTOTALS (STAGE 1)				4,134	4,134
	STAGE 2	405+69 'EB'	-	410+34 'EB'	RT	471	471
		425+00 'EB'	-	427+99 'EB'	RT	340	340
		436+80 'EB'	-	439+05 'EB'	RT	233	233
		442+06 'EB'	-	445+96 'EB'	RT	395	395
		459+35 'EB'	-	461+45 'EB'	RT	211	211
		461+88 'EB'	-	467+19 'EB'	RT	531	531
		467+33 'EB'	-	469+34 'EB'	RT	202	202
		525+02 'EB'	-	533+68 'EB'	RT	872	872
		SUBTOTALS (STAGE 2)				3,255	3,255
	STAGE 3	500+09 'C'	-	509+00 'C'	LT	964	964
		SUBTOTALS (STAGE 3)				964	964
		TOTALS				8,353	8,353

CULVERT PIPE CHECKS

CATEGORY	STAGE	STATION	LOCATION	628.7555 EACH
0010	STAGE 1	415+92 'EB'	55' RT	5
		425+90 'EB'	113' RT	5
		444+08 'EB'	89' RT	5
		475+03 'EB'	55' RT	5
		507+00 'EB'	44' RT	5
		35+91 '65NB'	41' RT	5
		36+02 '65NB'	44' RT	5
		40+11 '65NB'	80' LT	10
		65+20 '65NB'	36' RT	5
		SUBTOTAL (STAGE 1)		50
	STAGE 2	415+83 'EB'	76' RT	5
		425+90 'EB'	117' RT	5
		444+01 'EB'	93' RT	5
		475+00 'EB'	78' RT	5
		495+00 'EB'	80' RT	5
		505+16 'EB'	60' RT	5
		527+02'EB'	55 RT	10
		492+50 'A'	45' RT	5
		508+97 'B'	48' RT	30
		SUBTOTAL (STAGE 2)		75
	STAGE 3	504+55 'WB'	99' RT	5
		527+00 'EB'	75' RT	5
		536+00 'WB'	25' RT	5
		494+22 'D'	80' RT	5
		495+90 'DB'	121' LT	5
		497+00 'DB'	60' RT	5
		499+72 'DB'	55' LT	5
		SUBTOTAL (STAGE 3)		35
		UNDISTRIBUTED		55
		SUBTOTAL (0010)		215
0100		10+87 'PK'	LT	5
		10+90 'PK'	LT	5
		SUBTOTAL (0100)		10
		TOTAL		225

EROSION MAT

CATEGORY	STAGE	STATION - STATION	628.2004 CLASS I TYPE B SY	628.2037 CLASS III TYPE C SY
0010	STAGE 1	404+41'WB' LT - 491+34'D' LT	52,800	---
		414+60'WB'LT	---	8
		422+06'WB' LT - 425+14'WB' LT	---	300
		428+00'WB' LT	---	6
		430+14'WB' LT - 433+63'WB' LT	---	260
		448+00'WB' LT	---	6
		459+00'WB' LT	---	6
		467+00'WB' LT	---	6
		475+00'WB' LT	---	10
		475+09'WB' LT - 476+00'WB' LT	---	85
		489+92'WB' LT - 497+27'WB' LT	2,950	---
		490+10'WB' LT - 493+35'WB' LT	---	310
		497+87'WB' LT - 506+10'WB' LT	1,750	---
		510+00'WB' LT - 531+00'WB' LT	10,050	---
		510+00'EB' MED - 517+00'EB' MED	900	---
		516+00'WB' LT	---	6
		530+04 'EB' RT	---	8
		491+00 'A1' - 494+00 'A1' RT	180	---
		493+75'DB' LT - 498+60'DB' LT	3,850	---
		31+50 LT - 37+00 LT	1,050	---
		34+50 RT - 36+00 RT	140	---
		37+75 RT - 40+25 RT	240	---
		43+50 - 45+86 LT	1,260	---
		46+80 LT - 48+75 LT	1,650	---
		46+65 RT - 48+50 RT	2,200	---
		50+80 LT - 52+50 LT	2,100	---
		50+60 RT - 52+70 RT	2,300	---
		54+10 RT - 56+50 RT	1,250	---
		57+00 RT - 62+00 RT	450	---
		SUBTOTALS (STAGE 1)	85,120	1,011
	STAGE 2	406+00'EB' RT - 486+35'A' RT	48,700	---
		406+97'EB' RT	---	6
		421+00'EB' RT - 425+00'EB' RT	---	350
		458+00'EB' LT - 474+77'EB' LT	2,850	---
		483+00'EB' LT - 487+00'EB' LT	360	---
		493+00'EB' RT - 496+52'EB' RT	310	---
		493+05'EB' LT - 506+00'EB' LT	1,650	---
		500+00'EB' RT - 505+30'EB' RT	1,550	---
		509+00'EB' LT - 519+00'EB' LT	1,850	---
		526+00'EB' RT - 533+00'EB' RT	1,150	---
		513+85'EB' RT - 525+00'EB' RT	990	---
		486+35'A' RT - 493+83'A' RT	5,650	---
		495+00'A' LT - 497+45'A' LT	1,800	---
		495+00'A' RT - 497+50'A' RT	1,000	---
		499+17'B' RT - 505+00'B' RT	4,200	---
		499+54'B' LT - 505+50'B' LT	5,420	---
		508+50'B' RT - 513+85'B' RT	580	---
		38+02 RT - 39+51 RT	710	---
		42+81 RT - 44+96 RT	900	---
		SUBTOTALS (STAGE 2)	79,670	356
		PRE-STAGE 3 (AFTER WINTER SHUTDOWN)	17,500	250
		SUBTOTALS (PRE-STAGE 3)	17,500	250
	STAGE 3	408+00'WB' RT - 437+50'WB' RT	2,600	---
		439+50'WB' RT - 489+50'WB' RT	4,450	---
		491+00'WB' RT - 502+50'WB' RT	1,130	---
		503+50'WB' RT - 530+00'WB' RT	2,360	---
		417+00'WB' LT - 422+00'WB' LT	440	---
		422+00'WB' LT - 425+00'WB' LT	---	280
		433+00'WB' LT - 434+00'WB' LT	90	---
		462+00'WB' LT - 469+00'WB' LT	790	---
		473+00'WB' LT - 474+00'WB' LT	120	---
		498+00'WB' LT - 505+50'WB' LT	640	---
		516+00'WB' LT - 520+00'WB' LT	360	---
		497+50'A' RT - 43+22 RT	1,750	---
		497+50'C' LT - 500+50'C' LT	2,300	---
		498+00'C' RT - 500+50'C' RT	2,200	---
		500+00'C' LT - 504+50'C' LT	2,450	---
		492+00'D' RT - 497+36'D' RT	4,300	---
		493+00'D' LT - 493+75'D' LT	390	---
		SUBTOTALS (STAGE 3)	26,370	280
		UNDISTRIBUTED	52,000	400
		TOTALS	260,660	2,297

INLET PROTECTION

CATEGORY	STAGE	STATION	LOCATION	628.7005 TYPE A EACH	628.7010 TYPE B EACH	628.7015 TYPE C EACH
0010	STAGE 1	415+42 'EB'	40' LT	1	---	---
		491+81 'EB'	71' RT	1	---	---
		507+01 'EB'	34' LT	1	---	---
		516+03 'EB'	29' LT	1	---	---
		527+03 'EB'	30'LT	1	---	---
		39+76 '65NB'	6.7' RT	1	---	---
		39+76 '65NB'	29.5' RT	1	---	---
		39+85 '65NB'	7.6' RT	1	---	---
		45+00 '65NB'	50.7' LT	1	---	---
		45+00 '65NB'	0.0' RT	1	---	---
		45+05 '65NB'	64.8' RT	1	---	---
		45+57 '65NB'	5.4' RT	---	1	---
		45+82 '65NB'	3.3' RT	---	1	---
		45+83 '65NB'	12.9' RT	---	1	---
		53+62 '65NB'	21.7' LT	1	---	---
		53+65 '65NB'	13.9' LT	1	---	---
		53+86 '65NB'	20.4' LT	1	---	---
		56+35 '65NB'	47.8' LT	1	---	---
		56+35 '65NB'	17.8' LT	1	---	---
		56+35 '65NB'	9.0' RT	1	---	---
		56+35 '65NB'	36.0' RT	1	---	---
		56+80 '65NB'	57.0' LT	1	---	---
		497+51 'A'	22.6' LT	1	---	---
		499+42 'B'	9.4' LT	1	---	---
		497+17 'C'	12.9' RT	1	---	---
		497+23 'D'	11.0' RT	1	---	---
		SUBTOTALS (STAGE 1)		23	3	0
	STAGE 2	415+21 'EB'	36' LT	1	---	---
		422+50 'EB'	30' LT	1	---	---
		427+99 'EB;	34' LT	1	---	---
		438+00 'EB'	31' LT	1	---	---
		448+00 'EB'	35' LT	1	---	---
		459+00 'EB'	31' LT	1	---	---
		467+00 'EB'	31' LT	1	---	---
		474+83 'EB'	31' LT	1	---	---
		495+00 'EB'	31' LT	1	---	---
		505+16 'EB'	34' LT	1	---	---
		516+00 'EB'	31' LT	1	---	---
		SUBTOTALS (STAGE 2)		11	0	0

PRE-STAGE 3 (AFTER WINTER SHUTDOWN)

		UNDISTRIBUTED		14	---	---
		SUBTOTALS (PRE-STAGE 3)		14	0	0
	STAGE 3	427+75 'EB'	30'LT	1	---	1
		448+00 'EB'	31' LT	1	---	1
		459+00 'EB'	30' LT	1	---	1
		467+00 'EB'	28' LT	1	---	1
		474+85 'EB'	27' LT	1	---	1
		515+00 'EB'	30' LT	1	---	1
		39+76 '65NB'	11.9' LT	1	---	1
		39+76 '65NB'	6.7' RT	---	---	1
		39+76 '65NB'	29.5' RT	---	---	1
		39+85 '65NB'	7.6' RT	---	---	1
		42+75 '65NB'	26.5' RT	1	---	1
		43+00 '65NB'	25.6' RT	1	---	1
		43+00 '65NB'	44.7' RT	1	---	1
		43+05 '65NB'	22.4' LT	1	---	1
		44+75 '65NB'	46.8' RT	1	---	1
		45+00 '65NB'	50.7' LT	---	---	1
		45+00 '65NB'	30.2' LT	1	---	1
		45+05 '65NB'	64.8' RT	---	---	1
		45+57 '65NB'	5.4' RT	1	---	1
		45+82 '65NB'	3.3' RT	1	---	1
		45+83 '65NB'	12.9' RT	1	---	1
		53+62 '65NB'	21.7' LT	---	---	1
		53+65 '65NB'	13.9' LT	---	---	1
		53+86 '65NB'	20.4' LT	---	---	1
		56+35 '65NB'	47.8' LT	---	---	1

CONT'D ABOVE

INLET PROTECTION (CONT'D)

CATEGORY	STAGE	STATION	LOCATION	628.7005 TYPE A EACH	628.7010 TYPE B EACH	628.7015 TYPE C EACH
0010		56+35 '65NB'	17.8' LT	---	---	1
		56+35 '65NB'	9.0' RT	---	---	1
		56+35 '65NB'	36.0' RT	---	---	1
		56+80 '65NB'	57.0' LT	---	---	1
		59+00 '65NB'	30.4' LT	1	---	1
		59+00 '65NB'	9.9' RT	1	---	1
		59+10 '65NB'	30.7' LT	1	---	1
		62+25 '65NB'	4.2' LT	1	---	1
		62+25 '65NB'	5.2' RT	1	---	1
		62+35 '65NB'	3.0' LT	1	---	1
		62+35 '65NB'	5.0' RT	1	---	1
		497+51 'A'	22.6' LT	---	---	1
		499+42 'B'	9.4' LT	---	---	1
		497+17 'C'	12.9' RT	---	---	1
		497+23 'D'	11.0' RT	---	---	1
		498+05 'C'	1.5' RT	1	---	1
		498+06 'C'	17.5' LT	1	---	1
		498+07 'C'	26.9' LT	1	---	1
		498+13 'C'	45.2' LT	1	---	1
		SUBTOTALS (STAGE 3)		27	---	44
			TOTALS	75	3	44

TEMPORARY DITCH CHECKS

CATEGORY	STAGE	STATION	LOCATION	628.7504 LF
0010	STAGE 1	418+99 'WB'	67' LT	8
		422+38 'WB'	86' LT	8
		423+27 'WB'	100' LT	8
		424+07 'WB'	115' LT	8
		424+90 'WB'	119' LT	8
		425+87 'WB'	119' LT	8
		427+31 'WB'	117' LT	8
		435+02 'WB'	74' LT	8
		438+00 'WB'	72' LT	8
		441+03 'WB'	73' LT	8
		448+39 'WB'	81' LT	8
		451+52 'WB'	64' LT	8
		455+00 'WB'	67' LT	8
		490+42 'WB'	72' LT	8
		491+12 'WB'	90' LT	8
		492+00 'WB'	100' LT	8
		493+13 'WB'	111' LT	8
		499+44 'WB'	69' LT	8
		501+50 'WB'	68' LT	8
		514+53 'WB'	90' LT	8
		515+75 'WB'	93' LT	8
		517+03 'WB'	86' LT	8
		519+04 'WB'	73' LT	8
		520+94 'WB'	70' LT	8
		523+75 'WB'	77' LT	8
		498+47 'C'	273' LT	8
		498+95 'C'	275' LT	8
		499+06 'C'	151' LT	8
		499+45 'C'	199' LT	8
		499+54 'C'	45' LT	8
		500+82 'C'	70' LT	8
		SUBTOTAL (STAGE 1)		248
	STAGE 2	425+18 'EB'	124'RT	8
		426+63 'EB'	144' RT	8
		439+20 'EB'	67' RT	8
		443+23 'EB'	86' RT	8
		444+86 'EB'	82' RT	8
		493+70 'EB'	77' RT	8
		494+57 'EB'	84' RT	8
		500+16 'EB'	101' RT	8
		SUBTOTAL (STAGE 2)		64

CONT'D ABOVE

TEMPORARY DITCH CHECKS (CONT'D)

CATEGORY	STAGE	STATION	LOCATION	628.7504 LF
0010	STAGE 3	417+03 'WB'	67' LT	8
		419+03 'WB'	67' LT	8
		421+02 'WB'	67' LT	8
		423+02 'WB'	97' LT	8
		425+00 'WB'	118' LT	8
		431+00 'WB'	110' LT	8
		433+02 'WB'	98' LT	8
		498+18 'WB'	63' LT	8
		500+00 'WB'	66' LT	8
		502+00 'WB'	66' LT	8
		504+04 'WB'	73' LT	8
		516+00 'WB'	96' LT	8
		518+00 'WB'	80' LT	8
		520+00 'WB'	73' LT	8
		SUBTOTAL (STAGE 3)		112
		TOTAL		424

STONE OR ROCK DITCH CHECKS

CATEGORY	STAGE	STATION	LOCATION	628.7560.S CY
0010	STAGE 1	414+63 'WB'	116' LT	7
		416+04 'WB'	93' LT	7
		429+80 'WB'	132' LT	10
		447+55 'WB'	112' LT	5
		458+96 'WB'	113' LT	7
		464+40 'WB'	140' LT	7
		467+03 'WB'	146' LT	7
		509+35 'WB'	108' LT	10
		SUBTOTALS (STAGE 1)		60
	STAGE 3	496+69 'DB'	275' LT	5
		500+00 'DB'	140' LT	5
		SUBTOTALS (STAGE 3)		10
			TOTAL	70

DELINEATORS

CATEGORY	STATION - STATION	LOCATION	633.0100 DELINEATOR POSTS STEEL EACH	633.0500 DELINEATOR REFLECTORS (WHITE) EACH	633.1100 DELINEATORS TEMPORARY EACH
0010	399+00 'EB' - 471+00 'EB'	RT	33	48	---
	409+00 'WB' - 483+00 'WB'	LT	27	37	---
	486+00 'WB' - 507+00 'WB'	LT	11	11	---
	489+00 'EB' - 510+00 'EB'	RT	11	11	---
	513+00 'EB' - 547+00 'EB'	RT	16	25	---
	510+00 'WB' - 547+00 'WB'	LT	20	34	---
	58+00 - 63+75	LT	6	12	---
	486+50 'A' - 496+00 'A'	RT	10	10	---
	501+00 'B' - 513+00 'B'	RT	13	13	---
	500+00 'C' - 509+50 'C'	LT	9	9	---
	483+00 'D' - 496+00 'D'	LT	20	20	---
	494+00 'DB' - 499+99 'DB'	LT	7	14	---
	399+00 'EB' - 404+00 'EB'	LT/RT	---	---	10
	526+00 'WB' - 529+50 'WB'	LT/RT	---	---	11
	534+25 'EB' - 539+25 'EB'	LT/RT	---	---	11
	403+00 'EB' - 409+00 'EB'	LT/RT	---	---	88
	530+00 'EB' - 535+00 'EB'	LT/RT	---	---	88
	400+50 'WB' - 411+50 'WB'	LT/RT	---	---	18
	526+00 'EB' - 539+00 'EB'	LT/RT	---	---	19
		TOTALS	183	252	245

MARKERS CULVERT END

CATEGORY	STAGE	STATION	LOCATION	633.5200 EACH
0010	STAGE 1A	425+23 'EB'	166' LT	1
		425+78 'EB'	68' RT	1
		444+56 'EB'	53' RT	1
		447+40 'EB'	154' LT	1
		SUBTOTAL (STAGE 1A)		4
	STAGE 2A	414+61 'EB'	164' LT	1
		415+77 'EB'	67' RT	1
		422+50 'EB'	70' RT	1
		425+78 'EB'	68' RT	1
		438+00 'EB'	31' RT	1
		444+56 'EB'	53' RT	1
		474+85 'EB'	27' LT	1
		492+50 'A'	LT/RT	2
		495+00 'EB'	LT/RT	2
		505+17 'EB'	35' LT	1
		505+75 'C'	48' LT	1
		509+03 'B'	54' RT	1
		527+02 'EB'	55' RT	1
		SUBTOTAL (STAGE 2A)		15
	STAGE 3B	427+75 'EB'	30'LT	1
		448+00 'EB'	31' LT	1
		459+00 'EB'	30' LT	1
		467+00 'EB'	28' LT	1
		474+85 'EB'	27' LT	1
		504+50 'C'	LT/RT	2
		509+31 'C'	65' LT	1
		494+20'D'	74' RT	1
		494+41 'DB'	90' LT	1
		497+56 'DB'	LT / RT	2
		515+00 'EB'	31' LT	1
		SUBTOTAL (STAGE 3B)		13
	STAGE 3D	536+00 'WB	LT/RT	2
		SUBTOTAL (STAGE 3D)		2
		TOTAL		34

PERMANENT SIGNING, TYPE I
STRUCTURAL STEEL SIGN SUPPORTS

CATEGORY	SIGN NO.	APPROX. STA.	LOCATION		**OFFSET	SIGN CODE	637.0101 SIGNS, TYPE I W X H	637.0101 SIGNS, TYPE I S.F.	POST SIZE	POST LENGTH LEFT	POST LENGTH RIGHT	635.0200 SIGN SUPPORT STRUCT. STEEL HIGH-STRENGTH LB	636.0100 SIGN SUPPORTS CONCRETE MASONRY CY	636.0500 SIGN SUPPORTS STEEL REINFORCEMENT LB	TYPE/SIZE OF STEEL	SIGN MOUNTED ON SAME POST AS	REMARKS
0010	2-02	419+00 'EB'	RT	IH-94	66.0	E1-1A	264" X 162"	297.00	W12"X22.0	23.8'	19.1'	1364.8	1.8	112	2 - TYPE D	---	ADVANCE EXIT GUIDE SIGN, 1 MILE
	2-03	419+00 'EB'	RT	IH-94	---	E2-1	156" x 24"	26.00	---	---	---	---	---	---	---	2-02	NEXT EXIT 7 MILES (MESSAGE IN ONE LINE)
	2-04	419+00 'EB'	RT	IH-94	---	E1-5P	108" x 30"	22.50	---	---	---	---	---	---	---	2-02	EXIT NUMBER FOR E1-1 & E4-1
	3-01	432+00 'EB'	RT	IH-94	66.0	E3-1	252" X 84"	147.00	W12"X16.0	16.0'	12.1'	742.6	1.6	98	2 - TYPE B	---	DESTINATION-NEXT RIGHT-EXIT NUMBER
	4-01	448+00 'WB'	LT	IH-94	-127.0	D2-3	204" X 84"	119.00	W12"X16.0	20.4'	17.9'	905.8	1.6	98	2 - TYPE B	---	DESTINATION/DISTANCE (THREE DESTINATION)
	5-02	471+50 'EB'	RT	IH-94	66.0	E4-1A	300" X 132"	275.00	W12"X19.0	21.5'	16.0'	1076.7	1.8	100	2 - TYPE C	---	EXIT DIRECTION SIGN WITH ARROW
	5-03	471+50 'EB'	RT	IH-94	---	E1-5P	108" X 30"	22.50	---	---	---	---	---	---	---	5-02	EXIT NUMBER FOR E1-1 & E4-1
	7-02	495+70 'A'	LT/RT	A RAMP	---	---	228" X 114"	180.50	---	---	---	---	---	---	---	---	OVERHEAD SUPPORTNORTH 65 ROBERTS NEW RICHMOND SOUTH 65
	7-24	44+25	RT	STH 65	---	---	96" X 126"	84.00	---	---	---	---	---	---	---	---	OVERHEAD SUPPORTWEST 94 NORTH 65 HUDSON ROBERTS ARROW
	7-25	44+25	RT	STH 65	---	---	168" X 114"	133.00	---	---	---	---	---	---	---	---	OVERHEAD SUPPORTNORTH 65 ROBERTS EAST 94 EAU CLAIRE
	7-36	49+70	RT	STH 65	---	---	168" x 132"	154.00	---	---	---	---	---	---	---	---	OVERHEAD SUPPORTNORTH 65 ROBERTS NEW RICHMOND WEST 94 HUDSON
	7-37	49+70	RT	STH 65	---	---	144" X 120"	120.00	---	---	---	---	---	---	---	---	OVERHEAD SUPPORTNORTH 65 ROBERTS NEW RICHMOND ARROW
	7-38	49+70	LT	STH 65	---	---	108" X 90"	67.50	---	---	---	---	---	---	---	---	OVERHEAD SUPPORTSOUTH 65 RIVER FALLS ARROW
	7-39	49+70	LT	STH 65	---	---	108" X 90"	67.50	---	---	---	---	---	---	---	---	OVERHEAD SUPPORTEAST 94 EAU CLAIRE ROUNDABOUT ARROW
	8-23	498+75 'C'	RT	C RAMP	---	---	144" X 114"	114.00	---	---	---	---	---	---	---	---	OVERHEAD SUPPORTNORTH 65 ROBERTS NEW RICHMOND ARROW
	8-24	498+75 'C'	RT	C RAMP	---	---	108" X 90"	67.50	---	---	---	---	---	---	---	---	OVERHEAD SUPPORTSOUTH 65 RIVER FALLS ROUNDABOUT ARROW
	8-44	56+00	LT	STH 65	---	---	108" X 90"	67.50	---	---	---	---	---	---	---	---	OVERHEAD SUPPORTEAST 94 EAU CLAIRE ARROW
	8-45	56+00	LT	STH 65	---	---	108" X 90"	67.50	---	---	---	---	---	---	---	---	OVERHEAD SUPPORTSOUTH 65 RIVER FALLS ARROW
	10-01	523+00 'WB'	LT	IH-94	-132.8	E4-1A	252" X 132"	231.00	W12"X19.0	17.3'	20.4'	1080.5	1.8	100	2-TYPE C	---	EXIT DIRECTION SIGN WITH ARROW
	10-02	523+00 'WB'	LT	IH-94	---	E1-5P	108" X 30"	22.50	---	---	---	---	---	---	---	10-01	EXIT NUMBER FOR E1-1 & E4-1
	11-01	545+10 'WB'	LT	IH-94	-42.0 WB CL	E3-1	252" X 108"	189.00	W12"X16.0	21.3'	21.3'	974.6	1.6	98	2 - TYPE B	---	DESTINATION-NEXT RIGHT-EXIT NUMBER
	11-02	555+15 'WB'	LT	IH-94	-44.0 WB CL	E3-1	192" X 60"	80.00	W10"X12.0	11.6'	15.2'	473.6	1.2	68	2 - TYPE A	---	DESTINATION-NEXT RIGHT-EXIT NUMBER
	11-03	565+15 'WB'	LT	IH-94	-42.0 WB CL	E3-1	180" X 60"	75.00	W10"X12.0	20.6'	18.1'	616.4	1.2	68	2 - TYPE A	---	DESTINATION-NEXT RIGHT-EXIT NUMBER
	11-04	575+15 'WB'	LT	IH-94	-42.0 WB CL	E1-1A	216" X 162"	243.00	W12"X22.0	20.1'	23.0'	1369.2	1.8	112	2 - TYPE D	---	ADVANCE EXIT GUIDE SIGN, 1 MILE
	11-05	575+15 'WB'	LT	IH-94	---	E2-1	156" x 24"	26.00	---	---	---	---	---	---	---	11-04	NEXT EXIT 6 MILES (MESSAGE IN ONE LINE)
	11-06	575+15 'WB'	LT	IH-94	---	E1-5A	108" X 30"	22.50	---	---	---	---	---	---	---	11-04	EXIT 10
	13-05	63+00	LT	STH 65	-47.3	---	84" X 90"	52.50	W10"X12.0	16.9'	15.9'	545.6	1.2	68	2 - TYPE A	---	WEST 94 HUDSON RIGHT ARROW
							TOTALS	2973.50				9149.8	15.6	922			

**OFFSET TO EDGE OF SIGN (SEE TYPICAL INSTALLATION OF TYPE I SIGNS PLATE NO A4-1.9)

TEMPORARY SIGNS

CATEGORY	STAGE	STATION	OFFSET	LOCATION	SIZE	637.0103 SIGNS REFLECTIVE TYPE III SF	634.0620 POSTS WOOD 4X6-INCH X 20-FT EACH*	634.0622 POSTS WOOD 4X6-INCH X 22-FT EACH*	MESSAGE
0010	1B	455+50 'WB'	LT	IH 94 WB	13.5' X 5.5'	74.25	3	--	HUDSON 9, ST. PAUL 24, MINNEAPOLIS 34
		517+50 'WB'	LT	IH 94 WB	7.0' X 14.0'	98.00	--	3	65, RIVER FALLS, NEW RICHMOND, RIGHT ARROW
		517+50 'WB'	LT	IH 94 WB	2.0' X 8.0'	16.00	--	--	EXIT 10
		SUBTOTALS (STAGE 1B)				188.25	3	3	
	1D								
		432+50 'WB'	RT	IH 94 WB	8.0' X 12.0'	96.00	--	3	65, NEW RICHMOND, ROBERTS, 1 MILE
		432+50 'WB'	RT	IH 94 WB	2.0' X 8.0'	16.00	--	--	EXIT 10
		440+50 'WB'	RT	IH 94 WB	5.5' X 12.0'	66.00	3	--	WISCONSIN INDIANHEAD TECHNICAL COLLEGE EXIT 10
		491+00 'WB'	RT	IH 94 WB	7.0' X 14.0'	98.00	--	3	65, NEW RICHMOND, ROBERTS
		491+00 'WB'	RT	IH 94 WB	2.0' X 8.0'	16.00	--	--	EXIT 10
		SUBTOTALS (STAGE 1D)				292.00	3	6	
		TOTALS				480.25	6	9	

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

MOVING TYPE III SIGNS

CATEGORY	STAGE	STATION	OFFSET	LOCATION	638.2103 MOVING TYPE III SIGNS EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH*	MESSAGE
0010	2A						
		436+20 'WB'	RT	IH 94 WB	1	3	65, NEW RICHMOND, ROBERTS, 1 MILE
		466+00 'WB'	RT	IH 94 WB	1	3	WISCONSIN INDIANHEAD TECHNICAL COLLEGE EXIT 10
		489+50 'WB'	RT	IH 94 WB	1	3	65, NEW RICHMOND, ROBERTS
		SUBTOTAL (STAGE 2A)			3	9	
	2B	349+00 'WB'	RT	IH 94 WB	1	3	65, NEW RICHMOND, ROBERTS, 1 MILE
		375+00 'WB'	RT	IH 94 WB	1	3	WISCONSIN INDIANHEAD TECHNICAL COLLEGE EXIT 10
		SUBTOTAL (STAGE 2B)			2	6	
	2C	436+20 'WB'	RT	IH 94 WB	1	3	65, NEW RICHMOND, ROBERTS, 1 MILE
		461+50 'EB'	RT	IH 94 WB	1	3	WISCONSIN INDIANHEAD TECHNICAL COLLEGE EXIT 10
		489+50 'WB'	RT	IH 94 WB	1	3	65, NEW RICHMOND, ROBERTS
		SUBTOTAL (STAGE 2C)			3	9	
	3A	433+00 'EB'	LT	IH 94 EB	1	3	HUDSON 9, ST. PAUL 24, MINNEAPOLIS 34
		437+00 'EB'	RT	IH 94 WB	1	3	65, NEW RICHMOND, ROBERTS, 1 MILE
		466+50 'EB'	RT	IH 94 EB	1	3	WISCONSIN INDIANHEAD TECHNICAL COLLEGE EXIT 10
		487+50 'EB'	RT	IH 94 EB	1	3	65, NEW RICHMOND, ROBERTS
		536+00 'WB'	LT	IH 94 WB	1	3	65, RIVER FALLS, NEW RICHMOND, RIGHT ARROW
		SUBTOTAL (STAGE 3A)			5	15	
	3B	504+00 'WB'	RT	IH 94 WB	1	3	65, RIVER FALLS, NEW RICHMOND, RIGHT ARROW
		SUBTOTAL (STAGE (3B)			1	3	
		TOTALS			14	42	

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

MOVING SIGNS

CATEGORY	STAGE	STATION	O/S	LOCATION	638.2102 MOVING SIGNS TYPE II EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	SIGN MESSAGE
0010	1B	476+00WB	LT	IH 94 WB	1	1	WEST 94
	2B	34+00S1	RT	STH 65	1	1	SIGNAL AHEAD
		38+00S1	RT	STH 65	1	2	HUDSON, NEW RICHMOND, ARROW, MENOMONIE, ARROW
		38+50S1	LT	STH 65	3	2	SOUTH 65, ALTERNATE 94, RIVER FALLS 8
		41+25S1	RT	STH 65	3	1	EAST 94, RIGHT ARROW
		42+50S1	LT	STH 65	2	1	ONE WAY LEFT ARROW, ONE WAY RIGHT ARROW
		43+25S1	LT	STH 65	2	1	NO LEFT TURN, NO RIGHT TURN
		43+25S1	LT	STH 65	3	1	EAST 94, LEFT ARROW
		47+50S1	RT	STH 65	1	1	HUDSON, LEFT ARROW
		51+75S1	LT	STH 65	1	1	MENOMONIE, LEFT ARROW
		52+75S1	LT	STH 65	1	1	SIGNAL AHEAD
		55+75S1	RT	STH 65	3	1	WEST 94, LEFT ARROW
		56+00S1	LT	STH 65	2	1	ONE WAY LEFT ARROW, ONE WAY RIGHT ARROW
		56+75S1	LT	STH 65	2	1	NO LEFT TURN, NO RIGHT TURN
		58+00S1	LT	STH 65	3	1	ALTERNATE 94, NORTH 65
		60+00S1	LT	STH 65	3	1	WEST 94 RIGHT ARROW
		63+00S1	LT	STH 65	1	2	RIVER FALLS, MENOMONIE, ARROW, HUDSON, ARROW
		UNDISTRIBUTED			5	5	
		SUBTOTALS (STAGE 2B)			37	25	
	3A	455+50EB	LT	IH 94 EB	1	3	HUDSON 9, ST. PAUL 24, MINNEAPOLIS 34
		476+00EB	LT	IH 94 EB	1	1	WEST '94'
		517+50EB	LT	IH 94 EB	1	3	65, RIVER FALLS, NEW RICHMOND, RIGHT ARROW
		SUBTOTALS (STAGE 3A)			3	7	
	3C - 3D	53+25S2	RT	STH 65	3	1	WEST 94, LEFT ARROW
		53+50S2	LT	STH 65	2	1	NO LEFT TURN, NO RIGHT TURN
		54+25S2	LT	STH 65	2	1	ONE WAY LEFT ARROW, ONE WAY RIGHT ARROW
		55+00S2	LT	STH 65	3	1	WEST 94, RIGHT ARROW
		UNDISTRIBUTED			5	5	
		SUBTOTALS (STAGE 3C-3D)			15	9	
	3E	44+00S2	RT	STH 65	3	1	EAST 94, RIGHT ARROW
		46+00S2	LT	STH 65	2	1	ONE WAY LEFT ARROW, ONE WAY RIGHT ARROW
		46+75S2	LT	STH 65	2	1	NO LEFT TURN, NO RIGHT TURN
		46+75S2	LT	STH 65	3	1	EAST 94, LEFT ARROW
		48+00S2	RT	STH 65	1	1	HUDSON, LEFT ARROW
		51+50S2	LT	STH 65	1	1	SIGNAL AHEAD
		54+50S2	LT	STH 65	3	1	WEST 94, RIGHT ARROW
		58+00S2	RT	STH 65	3	1	ALTERNATE 94, NORTH 65
		60+50S2	LT	STH 65	1	2	RIVER FALLS, MENOMONIE, ARROW, HUDSON, ARROW
		UNDISTRIBUTED			5	5	
		SUBTOTALS (STAGE 3E)			24	15	
	3F	38+25S2	LT	STH 65	3	2	HUDSON, NEW RICHMOND, ARROW, MENOMONIE, ARROW
		38+50S2	RT	STH 65	1	2	SOUTH 65, ALTERNATE 94, RIVER FALLS 8
		40+50S2	RT	STH 65	1	1	SIGNAL AHEAD
		44+25S2	RT	STH 65	3	1	EAST 94, RIGHT ARROW
		46+00S2	LT	STH 65	2	1	ONE WAY LEFT ARROW, ONE WAY RIGHT ARROW
		46+75S2	LT	STH 65	2	1	NO LEFT TURN, NO RIGHT TURN
		46+75S2	LT	STH 65	3	1	EAST 94, LEFT ARROW
		48+00S2	RT	STH 65	1	1	HUDSON, LEFT ARROW
		UNDISTRIBUTED			4	4	
		SUBTOTALS (STAGE 3F)			20	14	
		TOTALS			100	71	

TYPE II SIGNS AND SUPPORTS

CATEGORY	SIGN NO.	APPROX. STA.	LOCATION	SIGN CODE	SIGN SIZE	W X H	637.0202 SIGNS REFLECTIVE TYPE II SF	634.0612 POSTS WOOD 4X6X12-FT EACH	634.0614 POSTS WOOD 4X6X14-FT EACH	634.0616 POSTS WOOD 4X6X16-FT EACH	634.0618 POSTS WOOD 4X6X18-FT EACH	634.0620 POSTS WOOD 4X6X20-FT EACH*	634.0622 POSTS WOOD 4X6X22-FT EACH*	634.0885 POSTS TUBULAR STEEL 8.5-FT EACH	634.0810 POSTS TUBULAR STEEL 10-FT EACH	634.0811 POSTS TUBULAR STEEL 11-FT EACH	634.0812 POSTS TUBULAR STEEL 12-FT EACH	SIGN MOUNTED ON SAME POST AS	REMARKS	
0010	2-01	WB 419+00 'WB'	LT IH-94	R8-7	5	48" X 36"	12.00	--	--	1	--	--	--	--	--	--	--	0	EMERGENCY STOPPING ONLY	
	3-02	WB 435+00 'WB'	LT IH-94		5	132" X 48"	44.00	--	--	--	2	1	--	--	--	--	--	--	TRANSIT & RIDESHARE INFO, www.metrotransit.org	
	3-03	WB 437+50 'WB'	LT IH-94	D10-1	5	12" X 24"	2.00	1	--	--	--	--	--	--	--	--	--	--	MILEPOST MARKER (1 DIGIT)	4' Mounting Height
	3-04	EB 437+50 'EB'	RT IH-94	D10-1	5	12" X 24"	2.00	1	--	--	--	--	--	--	--	--	--	--	MILEPOST MARKER (1 DIGIT)	4' Mounting Height
	3-05	EB 445+00 'EB'	RT IH-94	D4-4	2M	144" X 90"	90.00	--	--	--	--	--	3	--	--	--	--	--	PARK & RIDE EXIT 10	
	4-02	WB 451+00 'WB'	LT IH-94	R4-3	5	48" X 60"	20.00	--	--	--	--	2	--	--	--	--	--	--	SLOWER TRAFFIC KEEP RIGHT	
	4-03	WB 458+00 'WB'	LT IH-94	R2-1	5	48" X 60"	20.00	--	--	--	--	2	--	--	--	--	--	--	SPEED LIMIT $^{2}65^{3}$ MPH	
	4-04	EB 445+13 'EB'	LT IH-94	R3-4B	5	36" X 48"	12.00	--	--	--	1	--	--	--	--	--	--	--	NO U TURN SIGN COMBINED W/MAINT&POLICE	
	4-05	WB 448+56 'WB'	RT IH-94	R3-4B	5	36" X 48"	12.00	--	--	--	1	--	--	--	--	--	--	--	NO U TURN SIGN COMBINED W/MAINT&POLICE	
	5-01	WB 468+00 'WB'	LT IH-94	J4-1	5	36" X 54"	13.50	--	--	--	1	--	--	--	--	--	--	--	REASSURANCE ASSEMBLY	
	6-01	EB 488+75 'A'	RT A RAMP	W2-6	3	36" X 36"	9.00	--	--	--	--	1	--	--	--	--	--	--	CIRCULAR INTERSECTION SIGN	
	6-02	EB 488+75 'A'	RT A RAMP	W2-6P	3	36" X 18"	4.50	--	--	--	--	--	--	--	--	--	--	6-01	ROUNDABOUT AHEAD PLAQUE	
	6-03	EB 488+75 'A'	RT A RAMP	W13-1	3	24" X 24"	4.00	--	--	--	--	--	--	--	--	--	--	6-01	ADVISORY SPEED (YELLOW BACK)	
	6-04	EB 488+80 'A'	LT A RAMP	E5-1A	5	72" X 60"	30.00	--	--	--	--	2	--	--	--	--	--	--	EXIT NUMBER (ARROW) 1-4 DIGITS	
	6-05	EB 489+90 'A'	RT A RAMP	R7-64	3	48" X 30"	10.00	--	--	1	--	--	--	--	--	--	--	--	NO PARKING ON RAMP	
	6-06	EB 490+30 'EB'	RT IH-94	D10-2	5	12" X 36"	3.00	1	--	--	--	--	--	--	--	--	--	--	MILEPOST MARKER (2 DIGITS)	4' Mounting Height
	6-07	WB 490+30 'WB'	LT IH-94	D10-2	5	12" X 36"	3.00	1	--	--	--	--	--	--	--	--	--	--	MILEPOST MARKER (2 DIGITS)	4' Mounting Height
	6-08	WB 491+00 'WB'	LT IH-94	W4-1	5	48" X 48"	16.00	--	--	--	--	2	--	--	--	--	--	--	MERGING TRAFFIC SYMBOL (RIGHT)	
	7-01	EB 493+25 'A'	RT A RAMP	W3-2	2S	36" X 36"	9.00	--	--	--	1	--	--	--	--	--	--	--	YIELD AHEAD	
	7-03	EB 495+70 'A'	LT A RAMP	R5-1A	2S	36" X 24"	6.00	--	--	--	--	--	--	--	--	--	--	OVERHEAD	WRONG WAY	
	7-04	EB 495+70 'A'	RT A RAMP	R5-1A	2S	36" X 24"	6.00	--	--	--	--	--	--	--	--	--	--	OVERHEAD	WRONG WAY	
	7-05	EB 496+65 'A'	LT A RAMP	D4-5L	2S	30" X 36"	7.50	--	--	1	--	--	--	--	--	--	--	--	PARK AND RIDE SYMBOLS LEFT ARROW	
	7-06	EB 497+45 'A'	LT A RAMP	R1-2	2S	36" X 31"	3.88	--	--	--	--	--	--	--	--	--	1	REMOVABLE	YIELD	
	7-07	EB 497+45 'A'	LT A RAMP	R6-2R	2S	24" X 30"	5.00	--	--	--	--	--	--	--	--	--	--	7-06	ONE WAY RIGHT ARROW	
	7-08	EB 497+45 'A'	LT A RAMP	R5-1	2S	30" X 30"	6.25	--	--	--	--	--	--	--	1	--	--	REMOVABLE	DO NOT ENTER	
	7-09	EB 497+75 'A'	RT A RAMP	R1-2	2S	36" X 31"	3.88	--	--	1	--	--	--	--	--	--	--	--	YIELD	
	7-10	EB 497+75 'A'	RT A RAMP	R1-54	2S	24" X 15"	2.50	--	--	--	--	--	--	--	--	--	--	7-09	TO TRAFFIC FROM LEFT	
	7-11	EB 498+00 'A'	LT A RAMP	R6-1R	2S	36" X 12"	3.00	2	--	--	--	--	--	--	--	--	--	--	ONE WAY RIGHT ARROW ROUNDABOUT	
	7-12	EB 498+00 'A'	LT A RAMP	R6-4B	2S	60" X 24"	10.00	--	--	--	--	--	--	--	--	--	--	7-11	ROUNDABOUT CHEVRON	4' Mounting Height
	7-13	EB 498+50 'A'	RT A RAMP	D1-2	2S	66" X 42"	19.25	--	--	2	--	--	--	--	--	--	--	--	DIRECTIONAL ASSEMBLY	
	7-14	EB 498+60 'B'	LT B RAMP	R6-1R	2S	36" X 12"	3.00	2	--	--	--	--	--	--	--	--	--	--	ONE WAY RIGHT ARROW ROUNDABOUT	
	7-15	EB 498+60 'B'	LT B RAMP	R6-4B	2S	60" X 24"	10.00	--	--	--	--	--	--	--	--	--	--	7-14	ROUNDABOUT CHEVRON	4' Mounting Height
	7-16	EB 499+00 'B'	RT B RAMP	R1-2	2S	36" X 31"	3.88	--	--	1	--	--	--	--	--	--	--	--	YIELD	
	7-17	EB 499+00 'B'	RT B RAMP	R1-54	2S	24" X 15"	2.50	--	--	--	--	--	--	--	--	--	--	7-16	TO TRAFFIC FROM LEFT	
	7-18	EB 499+50 'B'	RT B RAMP	R11-54F	2S	48" X 30"	10.00	--	--	2	--	--	--	--	--	--	--	--	RAMP CLOSED USE ALT ROUTE	
	7-19	EB 499+50 'B'	LT B RAMP	D1-2	2S	66" X 42"	19.25	--	--	--	--	--	--	--	--	2	--	REMOVABLE	DIRECTIONAL ASSEMBLY	
	7-20	EB 500+40 'B'	RT B RAMP	R5-57	5	36" X 36"	9.00	--	--	--	--	--	--	--	--	--	--	LIGHT POLE	PEDESTRIANS, ETC., PROHIBITED	
	7-21	EB 505+50 'EB'	RT IH-94	W4-1	5	48" X 48"	16.00	--	--	--	--	2	--	--	--	--	--	--	MERGING TRAFFIC SYMBOL (RIGHT)	
	7-22	NB 42+00	RT STH 65	D4-5A	2S	30" X 36"	7.50	--	1	--	--	--	--	--	--	--	--	--	PARK AND RIDE SYMBOLS AHEAD	
	7-23	SB 42+50	LT STH 65	W6-2	2S	36" X 36"	9.00	--	--	--	1	--	--	--	--	--	--	--	DIVIDED HIGHWAY ENDS SYMBOL	
	7-26	NB 45+30	RT STH 65	R1-2	2S	36" X 31"	3.88	--	--	1	--	--	--	--	--	--	--	--	YIELD	
	7-27	NB 45+30	RT STH 65	R6-2R	2S	24" X 30"	5.00	--	--	--	--	--	--	--	--	--	--	7-26	ONE WAY RIGHT ARROW	
	7-28	SB 47+00	LT STH 65	R6-1R	2S	36" X 12"	3.00	--	--	--	--	--	--	2	--	--	--	REMOVABLE	ONE WAY RIGHT ARROW ROUNDABOUT	
	7-29	SB 47+00	LT STH 65	R6-4B	2S	60" X 24"	10.00	--	--	--	--	--	--	--	--	--	--	7-28	ROUNDABOUT CHEVRON	4' Mounting Height
	7-30	SB 47+30	LT STH 65	R1-2	2S	36" X 31"	3.88	--	--	1	--	--	--	--	--	--	--	--	YIELD	
	7-31	SB 47+30	LT STH 65	R1-54	2S	24" X 15"	2.50	--	--	--	--	--	--	--	--	--	--	7-30	TO TRAFFIC FROM LEFT	
	7-32	SB 47+30	RT STH 65	D1-2	2S	84" X 30"	17.50	--	--	--	--	--	--	--	2	--	--	REMOVABLE	DIRECTIONAL ASSEMBLY	
	7-33	SB 47+45	LT STH 65	R1-2	2S	36" X 31"	3.88	--	--	--	--	--	--	--	--	--	1	REMOVABLE	YIELD	
	7-34	SB 47+45	LT STH 65	R6-2R	2S	24" X 30"	5.00	--	--	--	--	--	--	--	--	--	--	7-34	ONE WAY RIGHT ARROW	
	7-35	SB 47+80	LT STH 65	R4-7	2S	24" X 30"	5.00	--	--	--	--	--	--	--	1	--	--	REMOVABLE	KEEP RIGHT	
	7-40	EB 491+00 'A'	RT A RAMP	D1-2	2S	126" X 24"	21.00	--	--	--	3	--	--	--	--	--	--	--	WISCONSIN INDIANHEAD TECHNICAL COLLEGE (ARROW)	
	7-41	EB 495+70 'A'	LT A RAMP	J3-1	2S	24" X 57"	9.06	--	--	--	--	--	--	--	--	--	--	OVERHEAD	ALTERNATE 94 ARROW	
	7-42	EB 495+70 'A'	RT A RAMP	J3-1	2S	24" X 57"	9.06	--	--	--	--	--	--	--	--	--	--	OVERHEAD	ALTERNATE 94 ARROW	
	7-43	NB 47+40	RT STH 65	J3-1	2S	24" X 57"	9.06	--	--	--	--	--	--	--	--	--	--	LIGHT POLE	DIRECTIONAL ASSEMBLY	
	7-44	SB 44+20	LT STH 65	J4-1	2S	24" X 36"	6.00	--	--	--	--	--	--	--	--	--	--	LIGHT POLE	65 SOUTH	
		SHEET 1 OF 3 SUBTOTALS					593.21	8	1	11	10	12	3	2	4	2	2			

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

CONT'D ON NEXT PAGE

TYPE II SIGNS AND SUPPORTS (CONT'D.)

CATEGORY	SIGN NO.		APPROX. STA.	LOCATION	SIGN CODE	SIGN SIZE	W X H	637.0202 SIGNS REFLECTIVE TYPE II SF	634.0612 POSTS WOOD 4X6X12-FT EACH	634.0614 POSTS WOOD 4X6X14-FT EACH	634.0616 POSTS WOOD 4X6X16-FT EACH	634.0618 POSTS WOOD 4X6X18-FT EACH	634.0620 POSTS WOOD 4X6X20-FT EACH*	634.0622 POSTS WOOD 4X6X22-FT EACH*	634.0885 POSTS TUBULAR STEEL 8.5-FT EACH	634.0810 POSTS TUBULAR STEEL 10-FT EACH	634.0811 POSTS TUBULAR STEEL 11-FT EACH	634.0812 POSTS TUBULAR STEEL 12-FT EACH	SIGN MOUNTED ON SAME POST AS	REMARKS	
0010	8-01	WB	493+20 'D'	LT D RAMP	W4-2L	2S	36" X 36"	9.00	--	--	1	--	--	--	--	--	--	--	--	LEFT LANE ENDS	
	8-02	WB	493+20 'D'	RT D RAMP	W4-2L	2S	36" X 36"	9.00	--	--	1	--	--	--	--	--	--	--	--	LEFT LANE ENDS	
	8-03	WB	494+00 'D'	RT D RAMP	R5-57	5	36" X 36"	9.00	--	--	--	--	--	--	--	--	--	--	LIGHT POLE	PEDESTRIANS, ETC., PROHIBITED	
	8-04	WB	498+00 'DB'	LT DB RAMP	R5-57	5	36" X 36"	9.00	--	--	1	--	--	--	--	--	--	--	--	PEDESTRIANS, ETC., PROHIBITED	
	8-05	WB	497+20 'D'	LT D RAMP	R11-54F	2S	48" X 30"	10.00	--	2	--	--	--	--	--	--	--	--	--	RAMP CLOSED USE ALT ROUTE	
	8-06	WB	497+15 'D'	RT D RAMP	D1-2	2S	66" X 42"	19.25	--	--	2	--	--	--	--	--	--	--	--	DIRECTIONAL ASSEMBLY	
	8-07	WB	497+55 'D'	LT D RAMP	R1-2	2S	36" X 31"	3.88	--	--	--	--	--	--	--	--	--	--	LIGHT POLE	YIELD	
	8-08	WB	497+55 'D'	LT D RAMP	R1-54	2S	24" X 30"	5.00	--	--	--	--	--	--	--	--	--	--	LIGHT POLE	TO TRAFFIC FROM LEFT	
	8-09	WB	499+20 'DB'	LT DB RAMP	R11-54F	2S	48" X 30"	10.00	--	--	2	--	--	--	--	--	--	--	--	RAMP CLOSED USE ALT ROUTE	
	8-10	WB	499+05 'DB'	RT DB RAMP	D1-2	2S	66" X 42"	19.25	--	--	2	--	--	--	--	--	--	--	--	DIRECTIONAL ASSEMBLY	
	8-11	WB	496+70 'C'	LT C RAMP	R1-2	2S	36" X 31"	3.88	--	--	--	--	--	--	--	--	1	--	REMOVABLE	YIELD	
	8-12	WB	496+70 'C'	LT C RAMP	R1-54	2S	24" X 15"	2.50	--	--	--	--	--	--	--	--	--	--	8-11	TO TRAFFIC FROM LEFT	
	8-13	WB	496+80 'C'	LT C RAMP	R1-2	2S	36" X 31"	3.88	--	--	1	--	--	--	--	--	--	--	--	YIELD	
	8-14	WB	496+80 'C'	LT C RAMP	R6-2R	2S	24" X 30"	5.00	--	--	--	--	--	--	--	--	--	--	8-13	ONE WAY RIGHT ARROW	
	8-15	WB	497+00 'C'	LT C RAMP	R1-2	2S	36" X 31"	3.88	--	--	--	--	--	--	--	--	--	--	REMOVABLE	YIELD	
	8-16	WB	497+00 'C'	LT C RAMP	R1-54	2S	24" X 15"	2.50	--	--	--	--	--	--	--	--	--	--	8-15	TO TRAFFIC FROM LEFT	
	8-17	WB	497+20 'C'	RT C RAMP	R1-2	2S	36" X 31"	3.88	--	--	1	--	--	--	--	--	--	--	--	YIELD	
	8-18	WB	497+20 'C'	RT C RAMP	R6-2R	2S	24" X 30"	5.00	--	--	--	--	--	--	--	--	--	--	8-17	ONE WAY RIGHT ARROW	
	8-19	WB	497+20 'C'	RT C RAMP	R5-1	2S	30" X 30"	6.25	--	--	--	--	--	--	--	--	--	--	8-17	DO NOT ENTER	
	8-20	WB	498+05 'C'	LT C RAMP	W12-1D	2S	24" X 24"	4.00	1	--	--	--	--	--	--	--	--	--	--	DOUBLE DOWN ARROW	2' Mounting Height
	8-21	WB	498+75 'C'	LT C RAMP	R5-1A	2S	36" X 24"	6.00	--	--	--	--	--	--	--	--	--	--	OVERHEAD	WRONG WAY	
	8-22	WB	498+75 'C'	LT C RAMP	R5-1A	2S	36" X 24"	6.00	--	--	--	--	--	--	--	--	--	--	OVERHEAD	WRONG WAY	
	8-25	WB	499+50 'C'	LT C RAMP	D4-5R	2S	30" X 36"	7.50	--	--	1	--	--	--	--	--	--	--	--	PARK AND RIDE SYMBOLS RIGHT ARROW	
	8-26	WB	500+70 'C'	LT C RAMP	R7-64	3	48" X 30"	10.00	--	--	2	--	--	--	--	--	--	--	--	NO PARKING ON RAMP	
	8-27	WB	501+70 'C'	LT C RAMP	W3-2	2S	36" X 36"	9.00	--	--	1	--	--	--	--	--	--	--	--	YIELD AHEAD	
	8-28	WB	504+00 'C'	LT C RAMP	D1-3	2S	168" X 36"	42.00	--	--	--	2	2	--	--	--	--	--	--	UW RIVER FALLS CVTC WITC	
	8-29	NB	51+65	RT STH 65	R4-7	2S	24" X 30"	5.00	--	1	--	--	--	--	--	--	--	--	--	KEEP RIGHT	
	8-30	NB	52+15	RT STH 65	R1-2	2S	36" X 31"	3.88	--	--	1	--	--	--	--	--	--	--	--	YIELD	
	8-31	NB	52+15	RT STH 65	R6-2R	2S	24" X 30"	5.00	--	--	--	--	--	--	--	--	--	--	8-30	ONE WAY RIGHT ARROW	
	8-32	SB	52+15	LT STH 65	D1-2	2S	84" X 30"	17.50	--	2	--	--	--	--	--	--	--	--	--	DIRECTIONAL ASSEMBLY	
	8-33	NB	52+30	RT STH 65	R1-2	2S	36" X 31"	3.88	--	--	1	--	--	--	--	--	--	--	--	YIELD	
	8-34	NB	52+30	RT STH 65	R1-54	2S	24" X 15"	2.50	--	--	--	--	--	--	--	--	--	--	8-33	TO TRAFFIC FROM LEFT	
	8-35	NB	52+65	RT STH 65	R6-1R	2S	36" X 12"	3.00	2	--	--	--	--	--	--	--	--	--	--	ONE WAY RIGHT ARROW ROUNDABOUT	
	8-36	NB	52+65	RT STH 65	R6-4B	2S	60" X 24"	10.00	--	--	--	--	--	--	--	--	--	--	8-35	ROUNDABOUT CHEVRON	4' Mounting Height
	8-37	NB	53+30	RT STH 65	R6-1R	2S	36" X 12"	3.00	2	--	--	--	--	--	--	--	--	--	--	ONE WAY RIGHT ARROW ROUNDABOUT	
	8-38	NB	53+30	RT STH 65	R6-4B	2S	60" X 24"	10.00	--	--	--	--	--	--	--	--	--	--	8-37	ROUNDABOUT CHEVRON	4' Mounting Height
	8-39	SB	53+35	LT STH 65	R6-1R	2S	36" X 12"	3.00	2	--	--	--	--	--	--	--	--	--	--	ONE WAY RIGHT ARROW ROUNDABOUT	
	8-40	SB	53+35	LT STH 65	R6-4B	2S	60" X 24"	10.00	--	--	--	--	--	--	--	--	--	--	8-39	ROUNDABOUT CHEVRON	4' Mounting Height
	8-41	SB	53+90	LT STH 65	R1-2	2S	36" X 31"	3.88	--	--	1	--	--	--	--	--	--	--	--	YIELD	
	8-42	SB	53+90	LT STH 65	R6-2R	2S	24" X 30"	5.00	--	--	--	--	--	--	--	--	--	--	8-41	ONE WAY RIGHT ARROW	
	8-43	NB	53+95	RT STH 65	D1-2	2S	66" X 42"	19.25	--	--	2	--	--	--	--	--	--	--	--	DIRECTIONAL ASSEMBLY	
	8-46	WB	498+75 'C'	RT C RAMP	J3-1	2S	24" X 57"	9.06	--	--	--	--	--	--	--	--	--	--	OVERHEAD	ALTERNATE 94 ARROW	
	8-47	WB	498+75 'C'	RT C RAMP	J3-1	2S	24" X 57"	9.06	--	--	--	--	--	--	--	--	--	--	OVERHEAD	ALTERNATE 94 ARROW	
	8-48	NB	55+70	RT STH 65	J4-2	2S	48" X 36"	12.00	--	--	--	--	--	--	--	--	--	--	LIGHT POLE	ALTERNATE 94 / NORTH 65	
	8-49	NB	54+70	RT STH 65	W4-2L	2S	36" X 36"	9.00	--	--	1	--	--	--	--	--	--	--	--	LANE ENDS	
	8-50	NB	54+70	RT STH 65	W4-2L	2S	36" X 36"	9.00	--	--	1	--	--	--	--	--	--	--	--	LANE ENDS	
	8-51	NB	58+00	RT STH 65	R2-1	3	36" X 48"	12.00	--	--	1	--	--	--	--	--	--	--	--	SPEED LIMIT $^{2}55^{3}$ MPH	
	9-01	WB	506+15 'C'	LT C RAMP	W2-6	3	36" X 36"	9.00	--	--	--	--	1	--	--	--	--	--	--	CIRCULAR INTERSECTION SIGN	
	9-02	WB	506+15 'C'	LT C RAMP	W2-6P	3	36" X 18"	4.50	--	--	--	--	--	--	--	--	--	--	9-03	ROUNDABOUT AHEAD PLAQUE	
	9-03	WB	506+15 'C'	LT C RAMP	W13-1	3	24" X 24"	4.00	--	--	--	--	--	--	--	--	--	--	9-03	ADVISORY SPEED (YELLOW BACK)	
	9-04	WB	507+25 'C'	RT C RAMP	E5-1A	5	72" X 60"	30.00	--	--	--	--	2	--	--	--	--	--	--	EXIT NUMBER (ARROW) 1-4 DIGITS	
	10-03	EB	528+00 'EB'	RT IH-94	J4-1	5	36" X 54"	13.50	--	--	--	1	--	--	--	--	--	--	--	REASSURANCE ASSEMBLY	
	10-04	WB	535+87 'WB'	RT IH-94	R3-4B	5	36" X 48"	12.00	--	--	--	1	--	--	--	--	--	--	--	NO U TURN SIGN COMBINED W/MAINT&POLICE	
	10-05	EB	532+12 'EB'	LT IH-94	R3-4B	5	36" X 48"	12.00	--	--	--	1	--	--	--	--	--	--	--	NO U TURN SIGN COMBINED W/MAINT&POLICE	
	10-06	EB	534+00 'EB'	RT IH-94	R2-1	5	48" X 60"	20.00	--	--	--	--	2	--	--	--	--	--	--	SPEED LIMIT $^{2}65^{3}$ MPH	
	10-07	WB	535+00 'WB'	LT IH-94	D4-4	2M	144" X 90"	90.00	--	--	--	--	--	3	--	--	--	--	--	PARK & RIDE EXIT 10	
				SHEET 2 OF 3 SUBTOTALS				584.66	7	5	23	5	7	3	0	0	1	0			

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

CONT'D ON NEXT PAGE

CATEGORY	SIGN NO.		APPROX. STA.	LOCATION	SIGN CODE	SIGN SIZE	W X H	637.0202 SIGNS REFLECTIVE TYPE II SF	634.0612 POSTS WOOD 4X6X12-FT EACH	634.0614 POSTS WOOD 4X6X14-FT EACH	634.0616 POSTS WOOD 4X6X16-FT EACH	634.0618 POSTS WOOD 4X6X18-FT EACH	634.0620 POSTS WOOD 4X6X20-FT EACH*	634.0622 POSTS WOOD 4X6X22-FT EACH*	634.0885 POSTS TUBULAR STEEL 8.5-FT EACH	634.0810 POSTS TUBULAR STEEL 10-FT EACH	634.0811 POSTS TUBULAR STEEL 11-FT EACH	634.0812 POSTS TUBULAR STEEL 12-FT EACH	SIGN MOUNTED ON SAME POST AS	REMARKS
0010	12-02	SB	35+00	LT STH 65	R2-1	3	36" X 48"	12.00	--	--	1	--	--	--	--	--	--	--	--	SPEED LIMIT 2553 MPH
	12-03	NB	33+00	RT STH 65	W6-1	2S	36" X 36"	9.00	--	--	--	1	--	--	--	--	--	--	--	DIVIDED HIGHWAY AHEAD SYMBOL
	12-04	SB	33+00	LT STH 65	W14-3	2S	48" X 36"	6.00	--	--	1	--	--	--	--	--	--	--	--	NO PASSING ZONE
	12-05	NB	34+50	RT STH 65	W2-6	3	36" X 36"	9.00	--	--	--	1	--	--	--	--	--	--	--	CIRCULAR INTERSECTION SIGN
	12-06	NB	34+50	RT STH 65	W2-6P	3	36" X 18"	4.50	--	--	--	--	--	--	--	--	--	--	12-05	ROUNDABOUT AHEAD PLAQUE
	12-07	NB	34+50	RT STH 65	W13-1	3	24" X 24"	4.00	--	--	--	--	--	--	--	--	--	--	12-05	ADVISORY SPEED (YELLOW BACK)
	12-08	SB	31+50	LT STH 65	D2-1	2S	78" X 15"	8.13	--	--	2	--	--	--	--	--	--	--	--	RIVER FALLS 8
	12-09	SB	36+50	LT STH 65	W6-3	2S	36" X 36"	9.00	--	--	--	1	--	--	--	--	--	--	--	TWO WAY TRAFFIC
	12-10	NB	37+05	RT STH 65	R1-1	2S	30" X 30"	5.18	--	1	--	--	--	--	--	--	--	--	--	STOP SIGN
	12-11	NB	37+50	RT STH 65	R1-1	2S	30" X 30"	5.18	--	1	--	--	--	--	--	--	--	--	--	STOP SIGN
	12-12	NB	38+00	RT STH 65	W3-2	2S	36" X 36"	9.00	--	--	--	1	--	--	--	--	--	--	--	YIELD AHEAD
	12-14	NB	39+05	LT STH 65	R5-1	2S	30" X 30"	6.25	--	--	1	--	--	--	--	--	--	--	--	DO NOT ENTER
	12-15	NB	39+05	LT STH 65	R4-7	2S	24" X 30"	5.00	--	1	--	--	--	--	--	--	--	--	--	KEEP RIGHT
	12-17	NB	28+77	RT STH 65	J2-3	2S	72" X 57"	27.19	--	--	--	1	1	--	--	--	--	--		DIRECTIONAL ASSEMBLY
	13-01	NB	59+00	RT STH 65	W6-2	2S	36" X 36"	9.00	--	--	--	1	--	--	--	--	--	--	--	DIVIDED HIGHWAY ENDS SYMBOL
	13-02	SB	61+20	LT STH 65	W3-2	2S	36" X 36"	9.00	--	--	--	1	--	--	--	--	--	--	--	YIELD AHEAD
	13-03	SB	62+30	RT STH 65	R4-7	2S	24" X 30"	5.00	--	1	--	--	--	--	--	--	--	--	--	KEEP RIGHT
	13-04	SB	62+30	RT STH 65	R5-1	2S	30" X 30"	6.25	--	--	1	--	--	--	--	--	--	--	--	DO NOT ENTER
	13-06	NB	63+70	RT STH 65	D4-5R	2S	30" X 36"	7.50	--	--	1	--	--	--	--	--	--	--	--	PARK AND RIDE SYMBOLS RIGHT ARROW
	13-07	SB	64+30	LT STH 65	R1-1	2S	30" X 30"	5.18	--	--	1	--	--	--	--	--	--	--	--	STOP SIGN
	13-10	NB	65+10	RT STH 65	D4-5L	2S	30" X 36"	7.50	--	--	1	--	--	--	--	--	--	--	--	PARK AND RIDE SYMBOLS LEFT ARROW
	13-11	NB	65+25	RT STH 65	R1-1	2S	30" X 30"	5.18	--	--	1	--	--	--	--	--	--	--	--	STOP SIGN
	13-12	SB	65+80	LT STH 65	W2-6	3	36" X 36"	9.00	--	--	--	1	--	--	--	--	--	--	--	CIRCULAR INTERSECTION SIGN
	13-13	SB	65+80	LT STH 65	W2-6P	3	36" X 18"	4.50	--	--	--	--	--	--	--	--	--	--	13-12	ROUNDABOUT AHEAD PLAQUE
	13-14	SB	65+80	LT STH 65	W13-1	3	24" X 24"	4.00	--	--	--	--	--	--	--	--	--	--	13-12	ADVISORY SPEED (YELLOW BACK)
	13-15	NB	66+50	RT STH 65	W6-3	2S	36" X 36"	9.00	--	--	1	--	--	--	--	--	--	--	--	TWO WAY TRAFFIC
	13-16	SB	69+50	LT STH 65	W6-1	2S	36" X 36"	9.00	--	--	1	--	--	--	--	--	--	--	--	DIVIDED HIGHWAY AHEAD SYMBOL
	13-18	SB	61+15	LT STH 65	W3-2	2S	36" X 36"	9.00	--	1	--	--	--	--	--	--	--	--	--	YIELD AHEAD
				SHEET 3 OF 3 SUBTOTALS				218.54	0	5	12	8	1	0	0	0	0	0		
				SUBTOTALS (0010)				1396.41	15	11	46	23	20	6	2	4	3	2		
0100	14-01		PARK & RIDE		R1-1	2S	30" X 30"	5.18	--	--	--	--	--	--	--	--	--	--	LIGHT POLE	STOP SIGN
	14-02		PARK & RIDE		R7-65	3	30" X 24"	5.00	--	1	--	--	--	--	--	--	--	--	--	PARK & RIDE PARKING ONLY
	14-03		PARK & RIDE		R7-1D	2S	18" X 24"	3.00	--	1	--	--	--	--	--	--	--	--	--	NO PARKING ANY TIME
	14-04		PARK & RIDE			2S	24" X 30"	5.00	--	--	--	--	--	--	--	--	--	--	LIGHT POLE	VEHICLES LEFT OVER 14 DAYS WILL BE TOWED
	14-05		PARK & RIDE		D12-2A	2S	60" X 42"	17.50	--	--	--	--	--	--	--	--	--	--	LIGHT POLE	RIDESHARE INFO CALL 651-602-1602
	14-06		PARK & RIDE		R7-1D	2S	18" X 24"	3.00	--	1	--	--	--	--	--	--	--	--	--	NO PARKING ANY TIME
	14-07		PARK & RIDE		R7-8A	2S	12" X 18"	1.50	1	--	--	--	--	--	--	--	--	--	--	RESERVED PARKING THIS SPACE
	14-08		PARK & RIDE		R7-8V	2S	12" X 6"	0.50	--	--	--	--	--	--	--	--	--	--	14-07	VAN ACCESSIBLE
	14-09		PARK & RIDE		R7-8A	2S	12" X 18"	1.50	1	--	--	--	--	--	--	--	--	--	--	RESERVED PARKING THIS SPACE
	14-10		PARK & RIDE		R7-8A	2S	12" X 18"	1.50	1	--	--	--	--	--	--	--	--	--	--	RESERVED PARKING THIS SPACE
	14-11		PARK & RIDE		R7-8A	2S	12" X 18"	1.50	1	--	--	--	--	--	--	--	--	--	--	RESERVED PARKING THIS SPACE
	14-12		PARK & RIDE		R7-8A	2S	12" X 18"	1.50	1	--	--	--	--	--	--	--	--	--	--	RESERVED PARKING THIS SPACE
	14-13		PARK & RIDE		R7-1D	2S	18" X 24"	3.00	--	1	--	--	--	--	--	--	--	--	--	NO PARKING ANY TIME
	14-14		PARK & RIDE		R7-1D	2S	18" X 24"	3.00	--	1	--	--	--	--	--	--	--	--	--	NO PARKING ANY TIME
	14-15		PARK & RIDE		R7-1D	2S	18" X 24"	3.00	--	1	--	--	--	--	--	--	--	--	--	NO PARKING ANY TIME
				SUBTOTALS (0100)				55.68	5	6	0	0	0	0	0	0	0	0		
				PROJECT TOTALS				1,452.09	20	17	46	23	20	6	2	4	3	2		

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

EXISTING SIGNING SUMMARY

CATEGORY	SIGN NO.	STATION	SIGN CODE	SIGN MESSAGE	638.2601 REMOVING SIGNS TYPE I EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.3100 REMOVING STRUCTURAL STEEL SIGN SUPPORTS EACH	REMARKS
0010	1R01	419+00 'WB' LT	R8-7	EMERGENCY STOPPING ONLY	---	1	1	---	
	2R01	432+40 'EB'		EXIT 10	1	---	---	2	
	2R02	432+40 'EB'		65, NEW RICHMOND, ROBERTS, 1 MILE	1	---	---	---	SIGN MOUNTED ON SAME POST AS 2R01
	2R03	432+40 'EB'		NEXT EXIT 7 MILES	1	---	---	---	SIGN MOUNTED ON SAME POST AS 2R01
	2R04	437+50 'WB' LT	D10-1	MILEPOST MARKER	---	1	1	---	
	2R05	437+50 'EB'	D10-1	MILEPOST MARKER	---	1	1	---	
	2R06	440+35 'EB'		WISCONSIN INDIANHEAD TECHNICAL COLLEGE, EXIT 10	1	---	---	2	
	2R07	440+65 'WB' LT		TRANSIT & RIDESHARE INFO, METROTRANSIT.ORG	---	1	3	---	
	2R08	450+85 'WB' LT	R4-3	SLOWER TRAFFIC KEEP RIGHT	---	1	2	---	
	2R09	455+30 'WB' LT		HUDSON 9, ST. PAUL 24, MINNEAPOLIS 34	1	---	---	2	
	3R01	462+85 'WB' LT	R2-1	SPEED LIMIT 65 MPH	---	1	2	---	
	3R02	474+10 'EB'		NO U TURN COMBINED W/MAINT. & POLICE	---	2	1	---	
	3R03	474+10 'WB'		NO U TURN COMBINED W/MAINT. & POLICE	---	2	---	---	SIGN MOUNTED ON SAME POST AS 3R02
	3R04	475+80 'WB' LT	J4-1	REASSURANCE ASSEMBLY	---	2	1	---	
	3R05	477+60 'EB'		65, NEW RICHMOND, ROBERTS	1	---	---	2	
	3R06	477+60 'EB'		EXIT 10	1	---	-	---	SIGN MOUNTED ON SAME POST AS 3R05
	3R07	487+20 'A'	W13-2	SPEED LIMIT 35 MPH	---	1	2	---	
	3R08	489+10 'A'	E5-1A	EXIT NUMBER	---	2	2	---	
	3R09	489+75 'A'	R7-64	NO PARKING ON RAMP	---	1	1	---	
	3R10	490+00 'EB'	D10-2	MILEPOST MARKER	---	1	1	---	
	3R11	490+75 'D'	W1-6	NIGHT ARROW (SINGLE)	---	1	2	---	
	3R12	491+00 'A'	W1-6	NIGHT ARROW (SINGLE)	---	1	1	---	
	4R01	491+70 'A'	W3-3	SIGNAL AHEAD	---	1	2	---	
	4R02	493+70 'A'		WISCONSIN INDIANHEAD TECHNICAL COLLEGE, LEFT	---	1	2	---	
	4R03	493+00 'WB' LT	W4-1	MERGING TRAFFIC SYMBOL (RIGHT)	---	1	2	---	
	4R05	48+05		HUDSON (LEFT ARROW)	---	1	1	---	
	4R06	48+15	W5-52L	CLEARANCE STRIPER DOWN LEFT	---	1	1	---	
	4R07	48+30 'SB'	W5-52L	CLEARANCE STRIPER DOWN RIGHT	---	1	1	---	
	4R08	51+00	W5-52R	CLEARANCE STRIPER DOWN RIGHT	---	1	1	---	
	4R09	51+05 'SB'	W5-52R	CLEARANCE STRIPER DOWN LEFT	---	1	1	---	
	4R10	51+20 'SB'		MENOMONIE (LEFT ARROW)	---	1	2	---	
	4R11	53+65 'SB'	W3-3	SIGNAL AHEAD	---	1	2	---	
	4R12	53+80	W3-3	SIGNAL AHEAD	---	1	2	---	
	4R13	504+10 'C'		CVTC (LEFT) WITC (RIGHT)	---	1	3	---	
	4R14	504+55 'C'	W1-6	NIGHT ARROW (SINGLE)	---	1	2	---	
	4R15	505+55 'EB'	W4-1	MERGING TRAFFIC SYMBOL (RIGHT)	---	1	2	---	
	4R16	505+95 'B'	W1-6	NIGHT ARROW (SINGLE)	---	1	1	---	
	4R17	505+95 'C'	W3-1	STOP AHEAD	---	1	2	---	
	5R01	507+40 'C'	E5-1A	EXIT NUMBER	---	1	2	---	
	5R02	509+70 'C'	W13-3	RAMP SPEED ( ) MPH	---	1	2	---	
	5R03	517+50 'WB' LT		65, RIVER FALLS, NEW RICHMOND	1	---	---	2	
	5R04	517+50 'WB' LT		EXIT 10	1	---	---	---	SIGN MOUNTED ON SAME POST AS 5R03
	5R05	524+55 'EB'	J4-1	REASSURANCE ASSEMBLY	---	1	1	---	
	5R06	530+10 'WB'	R3-4B	NO U TURN COMBINED W/MAINT. & POLICE	---	2	1	---	
	5R07	530+95 'EB'	R3-4B	NO U TURN COMBINED W/MAINT. & POLICE	---	2	1	---	
	5R08	533+00 'EB'	R2-1	SPEED LIMIT 65 MPH	---	1	2	---	
	6R01	550+50 'WB'		UW RIVER FALLS EXIT 10	1	---	---	2	
	6R02	562+15 'WB'		EXIT 10	1	---	---	2	
	6R03	562+15 'WB'		65, NEW RICHMOND, ROBERTS, 1 MILE	1	---	---	---	SIGN MOUNTED ON SAME POST AS 6R02
	6R04	562+15 'WB'		NEXT EXIT 6 MILES	1	---	---	---	SIGN MOUNTED ON SAME POST AS 6R02
	7R01	31+75	R2-1	SPEED LIMIT 55 MPH	---	1	1	---	
	7R02	31+80 'SB'	R2-1	SPEED LIMIT 55 MPH	---	1	1	---	
	7R03	33+20 'SB'	W14-3	NO PASSING ZONE	---	1	1	---	
	7R04	33+80	W3-3	SIGNAL AHEAD	---	1	2	---	
	7R05	35+25		(AHEAD ARROW) HUDSON, NEW RICHMOND, MENOMINEE (RIGHT ARROW)	---	1	2	---	
	7R06	36+60	R1-1	STOP SIGN	---	1	1	---	
	7R07	37+00	R1-1	STOP SIGN	---	1	1	---	
	7R08	38+75 'SB'	J1-1	JUNCTION OR END ASSEMBLY	---	2	2	---	
	7R09	38+75 'SB'	J1-1	JUNCTION OR END ASSEMBLY	---	2	---	---	SIGN MOUNTED ON SAME POST AS 7R08
	7R10	38+75 'SB'		RIVER FALLS 8	---	1	---	---	SIGN MOUNTED ON SAME POST AS 7R08
	7R11	39+20	J2-1	ROUTE TURN ASSEMBLY	---	3	1	---	
	7R13	40+15	R5-57	PEDESTRIANS, ECT., PROHIBITED	---	1	1	---	
	7R14	42+35	R1-1F	STOP SIGN (FOLDING)	---	1	---	---	SIGN MOUNTED ON SIGNAL POLE
	7R15	42+35	R3-2	NO LEFT TURN SYMBOL	---	1	1	---	
	7R16	42+35 'SB'	R5-1	DO NOT ENTER	---	1	1	---	
	7R17	42+45 'SB'	R1-1	STOP SIGN	---	1	1	---	
	7R18	42+50	R7-1L	NO PARKING ANY TIME (LEFT ARROW)	---	1	1	---	
	7R19	42+55	R5-57	PEDESTRIANS, ECT., PROHIBITED	---	1	1	---	
	7R20	42+65 'SB'	R1-1F	STOP SIGN (FOLDING)	---	1	---	---	SIGN MOUNTED ON SIGNAL POLE

CONT'D ON NEXT PAGE

EXISTING SIGNING SUMMARY (CONT'D)

CATEGORY	SIGN NO.	STATION	SIGN CODE	SIGN MESSAGE	638.2601 REMOVING SIGNS TYPE I EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.3100 REMOVING STRUCTURAL STEEL SIGN SUPPORTS EACH	REMARKS
	7R22	42+65 'SB'	R6-2R	ONE WAY RIGHT ARROW	---	1	---	---	SIGN MOUNTED ON SIGNAL POLE
	7R23	42+70 'SB'	J2-2	ROUTE TURN ASSEMBLY	---	5	1	---	
	7R24	42+70 'SB'	J1-1	JUNCTION OR END ASSEMBLY	---	2	---	---	SIGN MOUNTED ON SAME POST AS 7R23
	7R25	42+70 'SB'	R5-1	DO NOT ENTER	---	1	---	---	SIGN MOUNTED ON SAME POST AS 7R23
	7R26	43+10 'SB'	R3-2	NO LEFT TURN SYMBOL	---	1	1	---	
	7R27	43+20 'SB'	R3-1	NO RIGHT TURN SYMBOL	---	1	1	---	
	7R28	43+20 'SB'	J2-1	ROUTE TURN ASSEMBLY	---	3	1	---	
	7R29	43+20 'SB'	R1-1F	STOP SIGN (FOLDING)	---	1	---	---	SIGN MOUNTED ON SIGNAL POLE
	7R30	494+40 'A'	R5-1A	WRONG WAY	---	1	1	---	
	7R31	494+40 'A'		NEW RICHMOND, ROBERTS (LEFT ARROW), RIVER FALLS (RIGHT ARROW)	---	1	2	---	
	7R32	494+40 'A'	R5-1A	WRONG WAY	---	1	---	---	SIGN MOUNTED ON SAME POST AS 7R31
	7R34	495+45 'A'	W1-8	NIGHT ARROW (SINGLE)	---	1	1	---	
	7R35	495+85 'A'	R7-64	NO PARKING ON RAMP	---	1	1	---	
	7R35	501+40 'B'	R1-2	YIELD	---	1	1	---	
	7R36	502+20 'B'	R3-2	NO LEFT TURN SYMBOL	---	1	1	---	
	7R37	502+30 'B'	R6-2R	ONE WAY RIGHT ARROW	---	1	1	---	
	7R38	502+85 'B'	R6-2L	ONE WAY LEFT ARROW	---	1	1	---	
	7R39	503+40 'B'	W1-6	NIGHT ARROW (SINGLE)	---	1	1	---	
	8R01	499+16 'C'	W1-6	NIGHT ARROW (SINGLE)	---	1	1	---	
	8R02	499+80 'C'	R5-1A	WRONG WAY	---	1	1	---	
	8R03	500+00 'C'		RIVER FALLS (LEFT), NEW RICHMOND,ROBERTS (RIGHT)	---	1	2	---	
	8R04	500+00 'C'	R5-1A	WRONG WAY	---	1	---	---	SIGN MOUNTED ON SAME POST AS 8R03
	8R05	54+75	R2-1	SPEED LIMIT ( ) MPH	---	1	1	---	
	8R06	54+85 'SB'	R2-1	SPEED LIMIT 45 MPH	---	1	1	---	
	8R07	56+40	R5-1	DO NOT ENTER	---	1	1	---	
	8R08	56+40	R3-1	NO RIGHT TURN SYMBOL	---	1	---	---	SIGN MOUNTED ON SAME POST AS 8R07
	8R09	56+45	R1-1	STOP SIGN	---	1	1	---	
	8R10	56+45	R3-2	NO LEFT TURN SYMBOL	---	1	---	---	SIGN MOUNTED ON SAME POST AS 8R09
	8R11	56+85	J2-2	ROUTE TURN ASSEMBLY	---	6	1	---	
	8R12	56+85	R1-1	STOP SIGN	---	1	1	---	
	8R13	56+85	R6-2R	ONE WAY RIGHT ARROW	---	1	---	---	SIGN MOUNTED ON SAME POST AS 8R12
	8R14	56+85	R6-2L	ONE WAY LEFT ARROW	---	1	---	---	SIGN MOUNTED ON SAME POST AS 8R12
	8R15	56+90	J2-1	ROUTE TURN ASSEMBLY	---	3	1	---	
	8R16	57+10	R1-1	STOP SIGN	---	1	1	---	
	8R17	57+15	R5-1	DO NOT ENTER	---	1	1	---	
	8R18	57+90	J1-1	JUNCTION OR END ASSEMBLY	---	2	1	---	
	8R19	57+90	J1-1	JUNCTION OR END ASSEMBLY	---	2	---	---	SIGN MOUNTED ON SAME POST AS 8R18
	8R20	58+90 'SB'	J2-1	ROUTE TURN ASSEMBLY	---	1	1	---	
	8R21	59+00	R5-57	PEDESTRIANS, ECT., PROHIBITED	---	1	1	---	
	8R22	60+35	R2-1	SPEED LIMIT 55 MPH	---	1	1	---	
	8R23	60+45 'SB'	J2-1	ROUTE TURN ASSEMBLY	---	3	1	---	
	8R24	61+60 'SB'	W3-5	SPEED LIMIT 45 AHEAD ARROW	---	1	1	---	
	8R25	63+20 'SB'		(AHEAD ARROW) RIVER FALLS, MENOMINEE, HUDSON	---	1	2	---	
	8R26	64+35 'SB'	R1-1	STOP SIGN	---	1	1	---	
	8R29	65+25	R1-1	STOP SIGN	---	1	1	---	
	8R30	66+10	D12-2A	RIDESHARE INFORMATION	---	1	1	---	
	8R31	66+15		PARK & RIDE	---	2	1	---	
	8R32	66+20		VEHICLES LEFT OVER 14 DAYS WILL BE TOWED	---	2	1	---	
	8R34	498+15 'DB' RT	W1-6	NIGHT ARROW (SINGLE)	---	1	1	---	
	8R35	498+20 'DB' RT	R6-2R	ONE WAY RIGHT ARROW	---	1	1	---	
	8R36	498+70 'DB' RT	R6-2L	ONE WAY LEFT ARROW	---	1	1	---	
	8R37	498+95 'DB' RT	R1-2	YIELD	---	1	1	---	
	8R38	499+25 'DB' RT	R7-1L	NO PARKING ANY TIME (LEFT ARROW)	---	1	1	---	
	8R39	499+30 'DB' RT	R5-57	PEDESTRIANS, ETC. PROHIBITED	---	1	1	---	
	8R40	499+35 'DB' RT	J2-1	ROUTE TURN ASSEMBLY	---	3	1	---	
	8R41	499+40 'DB' RT	R3-2	NO LEFT TURN SYMBOL	---	1	1	---	
	8R42	499+60 'DB' RT	R3-2	NO LEFT TURN SYMBOL	---	1	1	---	
	R712	40+00	J2-1	ROUTE TURN ASSEMBLY	---	3	1	---	
	---	---	J4-1	REASSURANCE ASSEMBLY (EB IH 94)	---	3	---	---	ALTERNATE ROUTE MARKER ASSEMBLY (USH 12 & STH 65)
	---	---	J4-1	REASSURANCE ASSEMBLY (WB IH 94)	---	3	---	---	ALTERNATE ROUTE MARKER ASSEMBLY (USH 12 & STH 65)
				TOTALS	13	154	125	14	

OVERHEAD SIGN SUPPORT (STRUCTURE)

CATEGORY	STRUCTURE	641.8000 LS
0050	01. S-55-0044	1
0060	02. S-55-0045	1
0070	03. S-55-0046	1
0080	04. S-55-0047	1
0090	05. S-55-0048	1

FIELD OFFICE TYPE C

CATEGORY	642.5201 EACH
0010	1

TRAFFIC CONTROL SURVEILLANCE AND MAINTENANCE

CATEGORY	CALENDAR DAYS	PROJECT	643.0200 DAYS
0010	455	1020-07-74	455

TRAFFIC CONTROL DETOUR(PROJECT)

CATEGORY	PROJECT	643.2000 EA
0010	1020-07-74	1

TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER

CATEGORY	STAGE	STATION	-	STATION	LOCATION	643.0500 POSTS EACH	643.0600 BASES EACH	REMARKS
0010	STAGE 2C	403+00 'EB'	-	409+00 'EB'	LT	60	60	WINTER SHUTDOWN
		530+00 'EB'	-	535+00 'EB'	LT	60	60	WINTER SHUTDOWN
		TOTALS				120	120	

PAVEMENT MARKING EPOXY SUMMARY

CATEGORY	STATION	-	STATION	646.0106 4-INCH EDGE LINE (WHITE) LF	EDGE LINE (YELLOW) LF	12.5' LINE-37.5' GAP (WHITE) LF	3' LINE-12' GAP (WHITE) LF	3' LINE-9' GAP (WHITE) LF	646.0126 8-INCH LANE LINE (WHITE) LF	10' LINE-10' GAP (WHITE) LF
0010	410+00 'EB'	-	488+50 'EB'	7,850	7,850	2,100	165	---	---	---
	410+00 'WB'	-	486+12 'WB'	7,620	7,620	1,950	---	---	---	---
	488+50 'EB'	-	510+21 'EB'	2,160	2,170	550	---	---	---	---
	486+12 'WB'	-	507+36 'WB'	2,140	2,130	540	---	---	---	---
	510+21 'EB'	-	527+00 'EB'	1,680	1,680	450	---	---	---	---
	507+36 'WB'	-	527+00 'WB'	2,020	2,010	650	145	---	---	---
	486+35 A	-	497+57 A	675	915	---	---	---	455	30
	499+43 B	-	511+88 B	965	1,080	---	---	---	---	---
	597+06 C	-	510+00 C	905	1,160	---	---	---	110	20
	482+07 D	-	498+27 D	2,100	1,110	---	---	---	---	---
	31+15	-	45+49	2,770	3,690	---	---	---	500	40
	SB ROUNDABOUT	-	SB ROUNDABOUT	---	---	---	---	---	245	---
	47+36	-	52+22	955	1,110	145	---	---	485	70
	NB ROUNDABOUT	-	NB ROUNDABOUT	---	---	---	---	---	260	---
	53+88	-	64+79	2,010	2,560	140	---	96	325	30
			SUBTOTALS (0010)	33,850	35,085	6,525	310	96	2,380	190
0100	PARK AND RIDE			---	162	---	---	---	---	---
			SUBTOTALS (0100)	0	162	0	0	0	0	0
			TOTALS	76,028					2,570	

PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC SUMMARY

CATEGORY	STATION	-	STATION	SPV.0060.05 ARROWS TYPE 1 (WHITE) EACH	SPV.0060.06 ARROWS TYPE 2 (WHITE) EACH	SPV.0060.07 ARROWS TYPE 3 (WHITE) EACH	SPV.0060.08 WORDS EACH	SPV.0090.05 4-INCH 1' LINE-4' GAP (WHITE) LF	SPV.0090.06 8-INCH 6' LINE-3' GAP (WHITE) LF	SPV.0090.07 18-INCH 2' LINE-2' GAP (WHITE) LF
0010	486+35 A	-	497+57 A	---	---	---	2	---	---	---
	597+06 C	-	510+00 C	---	---	---	2	---	---	---
	31+15	-	45+49	---	---	---	2	---	---	---
	SB ROUNDABOUT	-	SB ROUNDABOUT	3	2	1	---	20	280	84
	47+36	-	52+22	---	---	---	4	---	---	---
	NB ROUNDABOUT	-	NB ROUNDABOUT	3	---	2	---	---	195	91
	53+88	-	53+88 - 64+79	---	---	---	2	---	---	---
			TOTALS	6	2	3	12	20	475	175

PAVEMENT MARKING SUMMARY

CATEGORY	STATION	-	STATION	647.0656 PARKING STALL EPOXY (WHITE) LF	647.0716 DIAGONAL EPOXY 8-INCH (YELLOW) LF	647.0726 DIAGONAL EPOXY 12-INCH (WHITE) LF	647.0726 DIAGONAL EPOXY 12-INCH (YELLOW) LF	646.0841.S GROOVED WET REFLECTIVE CONTRAST TAPE 4-INCH (WHITE LANE LINE) LF	646.0843.S GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (WHITE LANE LINE) LF	647.0746 DIAGONAL EPOXY 24-INCH (WHITE) LF	647.0156 ARROWS EPOXY TYPE 1 (WHITE) EACH	647.0160 ARROWS EPOXY TYPE 2R (WHITE) EACH	647.0166 ARROWS EPOXY TYPE 2 (WHITE) EACH	647.0170 ARROWS EPOXY TYPE 3R (WHITE) EACH	647.0176 ARROWS EPOXY TYPE 3 (WHITE) EACH	647.0146 ARROWS EPOXY TYPE 6 (WHITE) EACH	647.0256 SYMBOLS EPOXY EACH	647.0356 WORDS EPOXY EACH	647.0456 CURB EPOXY LF	647.0606 ISLAND NOSE EPOXY EACH
0010	410+00 'EB'	-	488+50 'EB'	---	---	---	---	170	---	---	---	---	---	---	---	---	---	---	---	---
	410+00 'WB'	-	486+12 'WB'	---	---	---	---	160	---	---	---	---	---	---	---	---	---	---	---	---
	488+50 'EB'	-	510+21 'EB'	---	---	---	---	44	---	---	---	---	---	---	---	---	---	---	---	---
	486+12 'WB'	-	507+36 'WB'	---	---	---	---	43	---	---	---	---	---	---	---	---	---	---	---	---
	510+21 'EB'	-	527+00 'EB'	---	---	---	---	36	---	---	---	---	---	---	---	---	---	---	---	---
	507+36 'WB'	-	527+00 'WB'	---	---	---	---	52	---	---	---	---	---	---	---	---	---	---	---	---
	486+35 A	-	497+57 A	---	---	59	---	---	680	---	---	2	---	---	---	2	---	2	---	---
	499+43 B	-	511+88 B	---	---	---	---	---	1,530	---	---	---	---	---	---	---	---	---	---	---
	497+06 C	-	510+00 C	---	---	20	---	---	705	---	---	---	1	1	---	---	---	1	---	1.00
	482+07 D	-	498+27 D	---	---	---	---	---	1170	---	---	---	---	---	---	---	---	---	---	---
	31+15	-	45+49	---	---	33	150	---	---	---	2	---	3	---	2	---	---	2	10	1
	47+36	-	52+22	---	---	83	22	---	---	---	4	2	---	2	---	---	---	2	20	2
	53+88	-	64+79	---	---	54	57	---	---	73	3	---	3	---	3	---	---	---	10	1
			SUBTOTALS (0010)	0	0	249	229	505	4,085	73	9	4	7	3	5	2	0	7	40	5
0100	PARK AND RIDE			2629	140	---	---	---	---	---	---	---	---	---	---	---	5	---	---	---
			SUBTOTALS (0100)	2629	140	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0
			TOTALS	2,629	140	478		505	4,085	73	9	4	7	3	5	2	5	7	40	5

TRAFFIC CONTROL SUMMARY

CATEGORY	STAGE	CALENDAR DAYS	LOCATION	SPV.0060.12 TRAFFIC CONTROL VERTICAL PANELS EACH	643.0300 **TRAFFIC CONTROL DRUMS QTY	643.0300 DAYS	643.0420 TRAFFIC CONTROL BARRICADES TYPE III QTY	643.0420 DAYS	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A QTY	643.0705 DAYS	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C QTY	643.0715 DAYS	643.0800 TRAFFIC CONTROL ARROW BOARDS QTY	643.0800 DAYS	643.0900 TRAFFIC CONTROL SIGNS QTY	643.0900 DAYS	643.1050 TRAFFIC CONTROL SIGNS PCMS QTY	643.1050 DAYS	643.3000 TRAFFIC CONTROL DETOUR SIGNS QTY	643.3000 DAYS
0010	PROJECT	455	IH 94 EB	---	---	---	15	6,825	30	13,650	---	---	---	---	16	7,280	2	910	---	---
			IH 94 WB	---	---	---	15	6,825	30	13,650	---	---	---	---	16	7,280	2	910	---	---
			STH 65 NB	---	---	---	---	---	---	---	---	---	---	---	5	2,275	---	---	---	---
			STH 65 SB	---	---	---	---	---	---	---	---	---	---	---	5	2,275	---	---	---	---
			STAR LANE	---	---	---	---	---	---	---	---	---	---	---	2	910	---	---	---	---
			70TH STREET	---	---	---	---	---	---	---	---	---	---	---	2	910	---	---	---	---
			STH 65/USH 12 (EAST) *	---	---	---	---	---	---	---	---	---	---	---	2	910	---	---	---	---
			STH 65/USH 12 (WEST) *	---	---	---	---	---	---	---	---	---	---	---	2	910	---	---	---	---
			FLAGGING	---	5	1,625	---	---	---	---	---	---	---	---	---	---	---	---	---	---
			SUBTOTALS	---		1,625		13,650		27,300		---		---		22,750		1,820		---
	1A	43	IH 94 & RAMPS	---	---	---	---	---	---	---	---	---	---	---	4	172	---	---	---	---
			IH 94 WB LANE CLOSURE	---	200	6,200	11	341	22	682	53	1,643	2	62	17	527	---	---	---	---
			STH 65	---	95	4,085	---	---	---	---	---	---	---	---	3	129	---	---	---	---
			SUBTOTALS (STAGE 1A)	---		12,005		341		682		1,643		62		828		---		---
	1B	22	C RAMP CLOSURE	---	20	80	4	16	8	32	20	80	---	---	3	12	1	14	60	840
			IH 94 & RAMPS	---	90	1,980	6	132	12	264	42	924	---	---	7	154	---	---	---	---
			IH 94 WB LANE CLOSURE	---	200	3,200	11	176	22	352	53	848	2	32	17	272	---	---	---	---
			STH 65	---	95	2,090	---	---	---	---	---	---	---	---	3	66	---	---	---	---
			SUBTOTALS (STAGE 1B)	---		7,350		324		648		1,852		32		504		14		840
	1C	21	IH 94 & RAMPS	---	40	840	6	126	12	252	40	840	---	---	13	273	---	---	---	---
			IH 94 LANE CLOSURES (EB&WB)	---	400	6,000	22	330	44	660	106	1,590	4	60	34	510	---	---	---	---
			STH 65	---	95	1,995	---	---	---	---	---	---	---	---	3	63	---	---	---	---
			SUBTOTALS (STAGE 1C)	---		8,835		456		912		2,430		60		846		---		---
	1D	11	IH 94 & RAMPS	---	377	4,147	18	198	36	396	127	1,397	---	---	38	418	---	---	---	---
			IH 94 LANE CLOSURES (EB&WB)	---	200	3,000	11	165	22	330	53	795	2	30	21	315	---	---	---	---
			STH 65	---	95	1,045	---	---	---	---	---	---	---	---	3	33	---	---	---	---
			SUBTOTALS (STAGE 1D)	---		8,192		363	---	726		2,192		30		766		---		---
	2A	78	IH 94 & RAMPS	---	168	13,104	14	1,092	28	2,184	59	4,602	---	---	32	2,496	---	---	---	---
			IH 94 LANE CLOSURES (EB&WB)	---	400	22,400	22	1,232	44	2,464	106	5,936	4	224	34	1,904	---	---	---	---
			STH 65	---	95	7,410	---	---	---	---	---	---	---	---	3	234	---	---	---	---
			SUBTOTALS (STAGE 2A)	---		42,914		2,324		4,648		10,538		224		4,634		---		---
	2B	24	IH 94 & RAMPS	---	540	12,960	50	1,200	100	2,400	121	2,904	---	---	51	1,224	---	---	---	---
			IH 94 LANE CLOSURES (EB&WB)	---	400	6,800	22	374	44	748	106	1,802	4	68	34	578	---	---	---	---
			STH 65	---	174	4,176	46	1,104	92	2,208	53	1,272	---	---	33	792	---	---	---	---
			SUBTOTALS (STAGE 2B)	---		23,936		2,678		5,356		5,978		68		2,594		---		---
	2C	166	IH 94 & RAMPS	303	---	---	78	12,948	156	25,896	---	---	---	---	41	6,806	---	---	---	---
			STH 65	---	174	28,884	46	7,636	92	15,272	53	8,798	---	---	33	5,478	---	---	---	---
			SUBTOTALS (STAGE 2C)	303		28,884		20,584		41,168		8,798		---		12,284		---		---
	3A	15	IH 94 & RAMPS	---	363	5,445	35	525	70	1,050	145	2,175	---	---	47	705	---	---	---	---
			IH 94 LANE CLOSURES (EB&WB)	---	400	4,400	22	242	44	484	106	1,166	4	44	34	374	---	---	---	---
			STH 65	---	174	2,610	46	690	92	1,380	53	795	---	---	33	495	---	---	---	---
			SUBTOTALS (STAGE 3A)	---		12,455		1,457		2,914		4,136		44		1,574		---		---
	3B	63	IH 94 & RAMPS	---	174	10,962	12	756	24	1,512	64	4,032	---	---	32	2,016	---	---	---	---
			IH 94 LANE CLOSURES (EB&WB)	---	400	18,000	22	990	44	1,980	106	4,770	4	180	34	1,530	---	---	---	---
			STH 65	---	174	10,962	46	2,898	92	5,796	53	3,339	---	---	33	2,079	---	---	---	---
			SUBTOTALS (STAGE 3B)	---		39,924		4,644		9,288		12,141		180		5,625		---		---
	3C	14	IH 94 & RAMPS	---	367	5,138	48	672	96	1,344	56	784	---	---	37	518	---	---	---	---
			IH 94 LANE CLOSURES (EB&WB)	---	400	4,000	22	220	44	440	106	1,060	4	40	34	340	---	---	---	---
			STH 65	---	205	2,870	57	798	114	1,596	15	210	---	---	35	490	---	---	---	---
			SUBTOTALS (STAGE 3C)	---		12,008		1,690	---	3,380		2,054		40		1,348		---		---

** CONES CONFORMING TO MUTCD DIMENSIONS MAY BE USED IN LEAU OF UNLIGHTED DRUMS IN LANE CLOSURES

* COVER EXISTING IH 94 ALTERNATE ROUTE ARROW SIGN AS SHOWN IN THE PLANS. THE COVERING OF THESE SIGNS ARE INCIDENTAL TO THE TRAFFIC CONTROL SIGN ITEM.

CONT'D ON NEXT PAGE

** CONES CONFORMING TO MUTCD DIMENSIONS MAY BE USED IN LEAU OF UNLIGHTED DRUMS IN LANE CLOSURES

TRAFFIC CONTROL SUMMARY (CONT'D)

CATEGORY	STAGE	CALENDAR DAYS	LOCATION	SPV.0060.12 TRAFFIC CONTROL VERTICAL PANELS EACH	643.0300 **TRAFFIC CONTROL DRUMS QTY	643.0300 DAYS	643.0420 TRAFFIC CONTROL BARRICADES TYPE III QTY	643.0420 DAYS	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A QTY	643.0705 DAYS	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C QTY	643.0715 DAYS	643.0800 TRAFFIC CONTROL ARROW BOARDS QTY	643.0800 DAYS	643.0900 TRAFFIC CONTROL SIGNS QTY	643.0900 DAYS	643.1050 TRAFFIC CONTROL SIGNS PCMS QTY	643.1050 DAYS	643.3000 TRAFFIC CONTROL DETOUR SIGNS QTY	643.3000 DAYS
0010	3D	14	IH 94 & RAMPS	---	106	1,484	---	---	---	---	---	---	---	---	13	182	---	---	---	---
			IH 94 LANE CLOSURES (EB&WB)	490	4,900	68,600	22	308	44	616	106	1,484	4	56	34	476	---	---	---	---
			STH 65	---	205	2,870	57	798	114	1,596	15	210	---	---	35	490	---	---	---	---
			SUBTOTALS (STAGE 3D)	490		72,954		1,106		2,212		1,694		56		1,148		---		---
	3E	25	IH 94 & RAMPS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
			IH 94 EB LANE CLOSURE	---	200	5,000	11	275	22	550	53	1,325	2	50	17	425	---	---	---	---
			STH 65	---	242	6,050	42	1,050	84	2,100	92	2,300	---	---	20	500	---	---	---	---
			SUBTOTALS (STAGE 3E)	---		11,050		1,325		2,650		3,625		50		925		---		---
	3F	22	IH 94 & RAMPS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
			IH 94 EB LANE CLOSURE	---	200	4,400	11	242	22	484	53	1,166	2	44	17	374	---	---	---	---
			STH 65	---	229	5,038	23	506	46	1,012	86	1,892	---	---	18	396	---	---	---	---
			SUBTOTALS (STAGE 3F)	---		9,438		748	---	1,496		3,058		44		770		---		---
	3G	18	STH 65	---	200	3,600	---	---	---	---	---	---	---	---	8	144	---	---	---	---
			SUBTOTALS (STAGE 3G)	---		3,600		---		---		---		---		144		---		---
			TOTALS	793		295,170		51,690		103,380		60,139		890		56,740		1,834		840

** CONES CONFORMING TO MUTCD DIMENSIONS MAY BE USED IN LEAU OF UNLIGHTED DRUMS IN LANE CLOSURES

TEMPORARY PAVEMENT MARKINGS REMOVABLE TAPE

CATEGORY	STAGE	STATION	-	STATION	MARKINGS LF	649.0400 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH WHITE LF	649.0400 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH YELLOW LF	649.1200 TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH WHITE LF	649.1800 TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE WHITE EACH
0010	1A-2A	36+00	-	38+00		---	---	30	--
		41+00	-	44+00		---	---	100	2
		48+50	-	51+00		430	430	---	---
		55+00	-	58+00		---	---	35	2
		64+00	-	65+00		---	---	50	--
				SUBTOTALS (STAGE 1A-2A)		430	430	215	4
	2B-3B	36+00	-	38+00		---	---	20	--
		41+00	-	44+00		---	---	30	--
		55+00	-	58+00		---	---	35	--
				SUBTOTALS (STAGE 2B-3B)		0	0	85	0
	3C - 3D	36+00	-	38+00		---	---	30	--
		52+00	-	55+00		---	---	45	3
				SUBTOTALS (STAGE 3C-3D)		0	0	75	3
	3E	45+00	-	48+00		---	---	100	---
		48+50	-	51+00		215	215	---	---
		64+00	-	65+00		---	---	20	---
				SUBTOTALS (STAGE 3E)		215	215	120	0
	3F	36+00	-	38+00		---	---	40	--
		45+00	-	48+00		430	430	70	---
				SUBTOTALS (STAGE 3F)		430	430	110	0
				UNDISTRIBUTED		125	125	20	3
				SUBTOTALS		1,200	1,200		
				TOTALS		2,400		625	10

PAVEMENT MARKING SAME DAY EPOXY, 4-INCH

CATEGORY	STATION - STATION	646.0406 4-INCH WHITE LF	646.0406 4-INCH YELLOW LF	646.0406 4-INCH 12.5' SKIPS WHITE LF	REMARKS
0010	524+50 'WB' - 545+50 'WB'	4,200	4,200	1,050	WB RESURFACING
	524+50 'EB' - 545+50 'EB'	4,200	4,200	1,050	EB RESURFACING
	SUBTOTALS	8,400	8,400	2,100	
	TOTAL		18,900		

REMOVING PAVEMENT MARKINGS

CATEGORY	STAGE	STATION	-	STATION	646.0600 WHITE LF	YELLOW LF	SKIPS LF	DOTS LF	8-INCH LF	12-INCH LF	REMARKS
0010	STAGE 1B	647+00 'WB'	-	493+00 'WB'	2,035	400	---	---	480	---	TEMPORARY RAMP D1
	STAGE 1C	402+00 'WB'	-	415+00 'WB'	935	935	320	---	---	---	'WB' MAINLINE TRANSITION
		411+50 'WB'	-	525+00 'WB'	11,435	11,435	---	---	---	---	'WB' MAINLINE EDGELINES
		467+00 'WB'	-	485+00 'WB'	1,345	350	---	165	800	---	TEMP RAMP D1
		491+00 'WB'	-	502+00'WB'	1,100	1,100	275	---	---	---	'WB' MAINLINE TRANSITION
		502+00 'WB'	-	508+00 'WB'	470	320	---	---	300	---	TEMP RAMP C2
		524+00 'WB'	-	536+00 'WB'	1,105	1,105	300	---	---	---	'WB' MAINLINE TRANSITION
		SUBTOTALS (STAGE 1C)			16,390	15,245	895	165	1,100	---	
	STAGE 1D	397+00 'WB'	-	410+00 'WB'	200	930	290	---	---	---	WEST MAINLINE CROSSOVER
		533+00 'WB'	-	540+00 'WB'	1,265	1,210	160	---	---	---	EAST MAINLINE CROSSOVER
		SUBTOTALS (STAGE 1D)			1,465	2,140	450	---	---	---	
	STAGE 2A	397+00 'EB'	-	405+00 'EB'	460	---	---	40	1,930	240	WEST MAINLINE CROSSOVER
		482+00 'EB'	-	493+00 'EB'	1,310	150	---	---	---	---	TEMPORARY RAMP A1
		505+00 'EB'	-	521+00 'EB'	1,850	300	---	---	---	---	TEMPORARY RAMP B1
		524+00 'EB'	-	550+00 'EB'	1,265	---	---	---	---	---	EAST MAINLINE CROSSOVER
		SUBTOTALS (STAGE 2A)			4,885	450	---	40	1,930	240	
	STAGE 2B	397+00 'EB'	-	490+50 'EB'	710	150	---	210	1,090	135	'EB' MAINLINE, 'EB' TRAFFIC
		504+00 'EB'	-	550+00 'EB'	820	290	---	120	490	---	'EB' MAINLINE, 'EB' TRAFFIC
		27+50	-	65+00	2,070	700	60	---	---	---	STH 65
		SUBTOTALS (STAGE 2B)			3,600	1,140	60	330	1,580	135	
	STAGE 2C	397+00 'EB'	-	550+00 'EB'	14,770	14,780	---	---	10,085	405	'EB' MAINLINE, 'EB' TRAFFIC
		397+00 'WB'	-	550+00 'WB'	12,730	13,605	2,825	255	5,335	---	'WB' MAINLINE, 'WB' TRAFFIC
		SUBTOTALS (STAGE 2C)			27,500	28,385	2,825	255	15,420	405	
	STAGE 3A	397+00 'EB'	-	540+00 'EB'	1,700	3,200	645	---	2,430	465	'EB' WIDENING, 'EB' TRAFFIC
		399+00 'EB'	-	539+00 'EB'	13,940	15,235	585	---	---	---	'EB' MAINLINE, 'WB' TRAFFIC
		SUBTOTALS (STAGE 3A)			15,640	18,435	1,230	---	2,430	465	
	STAGE 3B	426+00 'EB'	-	439+00 'EB'	---	---	---	---	---	---	XD CROSSOVER
		475+00 'EB'	-	490+00 'EB'	1,590	---	---	---	---	---	A2 RAMP
		505+50 'EB'	-	511+00 'EB'	550	---	---	---	---	---	C2 RAMP
		534+00 'EB'	-	539+00 'EB'	400	---	220	80	600	135	'EB' MAINLINE, 'WB' TRAFFIC
		SUBTOTALS (STAGE 3B)			2,540	---	220	80	600	135	
	STAGE 3C	426+00 'EB'	-	435+50 'EB'	920	---	---	---	---	---	A2-RAMP
		475+00 'EB'	-	491+00 'EB'	1,500	---	---	170	800	---	'EB' MAINLINE, 'WB' TRAFFIC
		502+00 'EB'	-	511+00 'EB'	1,140	---	---	180	800	110	'EB' MAINLINE, 'WB' TRAFFIC
		534+00 'EB'	-	539+00 'EB'	310	---	---	---	---	---	'EB' MAINLINE, 'WB' TRAFFIC
		51+00	-	65+00	1,630	2,220	---	50	320	---	STH 65
		SUBTOTALS (STAGE 3C)			5,500	2,220	---	400	1,920	110	
	STAGE 3D	397+00 'EB'	-	539+00 'EB'	14,015	13,995	---	---	7,230	---	'EB' MAINLINE
		397+00 'EB'	-	539+00 'EB'	4,430	14,185	610	155	5,730	110	'EB' WIDENING
		SUBTOTALS (STAGE 3D)			18,445	28,180	610	155	12,960	110	
	STAGE 3E	491+00 'EB'	-	493+00 'EB'	300	220	---	---	---	---	TEMPORARY RAMP A
		511+00 'EB'	-	524+00 'EB'	300	300	---	---	400	---	TEMPORARY RAMP B
		39+50	-	48+50	1,245	1,695	---	40	350	---	STH 65
		51+00	-	71+00	2,050	2,390	---	---	500	---	STH 65
		SUBTOTALS (STAGE 3E)			3,895	4,605	---	40	1,250	---	
	STAGE 3F	503+00 'EB'	-	518+00 'EB'	1,695	770	---	100	700	---	'EB' MAINLINE
		27+50	-	48+50	850	685	---	---	---	---	STH 65
		SUBTOTALS (STAGE 3F)			2,545	1,455	---	100	700	---	
	STAGE 3G	27+50	-	48+50	5,090	4,250	---	---	---	---	STH 65
		51+00	-	71+00	3,030	2,275	---	---	---	---	STH 65
		SUBTOTALS (STAGE 3G)			8,120	6,525	---	---	---	---	
		UNDISTRIBUTED			1,510	1,520	270	135	130	400	
		SUBTOTALS			114,070	110,700	6,560	1,700	40,500	2,000	
		TOTAL					275,530				

TEMPORARY PAVEMENT MARKING

CATEGORY	STAGE	STATION	-	STATION	649.0100 4-INCH WHITE LF	4-INCH YELLOW LF	4-INCH 12.5' SKIPS WHITE LF	3' DOTS WHITE LF	649.0701 8-INCH LF	649.1500 DIAGONAL 12-INCH LF	REMARKS
0010	STAGE 1B	477+40 'WB'	-	485+25 'WB'	785	---	---	---	---	---	'WB' WIDENING, 'WB' TRAFFIC
		461+00 'D1'	-	481+00 'D1'	1,325	350	---	165	400	---	TEMPORARY RAMP D1
		481+00 'D1'	-	493+00 'D1'	1,400	1,365	---	---	---	---	RAMP D1
		SUBTOTALS (STAGE 1B)			3,510	1,715	0	165	400	---	
	STAGE 1C	397+00 'WB'	-	488+00 'WB'	8,015	8,600	1,910	70	1,250	---	'WB' WIDENING, 'WB' TRAFFIC
		475+05 'WB'	-	485+25 'WB'	785	---	---	---	---	---	TEMPORARY RAMP D1
		488+00 'WB'	-	512+00 'WB'	2,365	2,425	613	132	400	---	'WB' WIDENING, 'WB' TRAFFIC
		526+00 'C1'	-	509+00 'WB'	950	880	---	---	---	---	TEMPORARY RAMP C1
		512+00 'WB'	-	536+00 'WB'	2,350	2,447	337	---	1,100	---	'WB' WIDENING, 'WB' TRAFFIC
		SUBTOTALS (STAGE 1C)			14,465	14,352	2,860	202	2,750	---	
	STAGE 1D										
		397+00 'WB'	-	488+00 'WB'	9,790	9,420	---	---	---	---	'WB' MAINLINE, 'EB' TRAFFIC
		488+00 'WB'	-	512+00 'WB'	2,420	2,480	613	---	---	---	'WB' MAINLINE, 'EB' TRAFFIC
		512+00 'WB'	-	566+00 'WB'	4,571	3,435	---	147	2,550	---	'WB' MAINLINE, 'EB' TRAFFIC
		SUBTOTALS (STAGE 1D)			16,781	15,335	613	147	2,550	---	
	STAGE 2A										
		397+00 'EB'	-	410+00 'EB'	540	---	---	39	1,930	60	WEST MAINLINE CROSSOVER
		482+00 'EB'	-	493+00 'EB'	1,605	400	---	69	400	45	TEMPORARY RAMP A1
		505+00 'EB'	-	519+00 'EB'	1,800	460	---	207	400	---	TEMPORARY RAMP B1
		534+00 'EB'	-	550+00 'EB'	1,400	---	---	---	---	---	EAST MAINLINE CROSSOVER
		SUBTOTALS (STAGE 2A)			5,345	860	0	315	2,730	105	
	STAGE 2B										
		27+50	-	43+00	3,000	2,940	---	---	55	---	STH 65
		43+00	-	48+50	1,040	1,104	---	40	140	---	STH 65
		51+00	-	57+00	1,050	1,240	---	50	160	---	STH 65
		57+00	-	69+00	2,290	2,117	---	30	---	---	STH 65
		70TH AVE	-	---	200	240	---	30	---	---	70TH AVE
		397+00 'EB'	-	490+50 'EB'	9,985	9,565	1,975	89	775	60	'EB' MAINLINE, A2 RAMP
		478+00 'EB'	-	488+72 'A2'	1,075	200	---	147	---	---	A2' RAMP
		504+00 'EB'	-	550+00 'EB'	4,185	2,615	440	---	1,840	---	'EB' MAINLINE, 'EB' TRAFFIC
		SUBTOTALS (STAGE 2B)			22,825	20,021	2,415	386	2,970	60	
	STAGE 2C										
		397+00 'EB'	-	407+00 'EB'	---	885	295	---	---	---	'EB' MAINLINE, 'EB' TRAFFIC
		483+00 'EB'	-	516+00 'EB'	2,275	2,600	800	---	---	---	'EB' MAINLINE, 'EB' TRAFFIC
		533+00 'EB'	-	550+00 'EB'	1,380	700	175	---	---	---	'EB' MAINLINE, 'EB' TRAFFIC
		397+00 'WB'	-	550+00 'WB'	14,995	14,835	625	192	600	---	'WB' MAINLINE, 'WB' TRAFFIC
		SUBTOTALS (STAGE 2C)			18,650	19,020	1,895	192	600	---	
	STAGE 3A										
		397+00 'EB'	-	540+00 'EB'	13,715	14,025	2,870	425	3,810	45	'EB' WIDENING, 'EB' TRAFFIC
		399+00 'EB'	-	539+00 'EB'	13,880	14,105	---	180	3,105	45	'EB' MAINLINE, 'WB' TRAFFIC
		SUBTOTALS (STAGE 3A)			27,595	28,130	2,870	605	6,915	90	
	STAGE 3B										
		426+00 'EB'	-	435+00 'EB'	1,425	---	---	---	---	---	'XD' CROSSOVER
		475+00 'EB'	-	495+00 'EB'	2,345	850	---	204	400	---	'EB' MAINLINE, 'WB' TRAFFIC, 'B2' RAMP
		501+00 'EB'	-	511+00 'EB'	1,574	280	---	138	400	40	'EB' MAINLINE, 'WB' TRAFFIC
		534+00 'EB'	-	539+00 'EB'	280	---	---	---	---	---	'EB' MAINLINE, 'WB' TRAFFIC
		SUBTOTALS (STAGE 3B)			5,624	1,130	0	342	800	40	
	STAGE 3C										
		438+00 'EB'	-	442+00 'EB'	---	---	---	132	610	---	EB INSIDE EDGE, A2-RAMP
		475+00 'EB'	-	491+00 'EB'	1,590	---	---	---	---	---	EB INSIDE EDGE, D2-RAMP
		502+00 'EB'	-	511+00 'EB'	900	---	---	---	---	---	EB INSIDE EDGE, C2-RAMP MEDIAN
		534+00 'EB'	-	539+00 'EB'	---	---	---	30	200	50	WEST XOVER, WB OFF-RAMP
		51+00	-	65+00	1,910	1,570	---	---	125	---	STH 65
		SUBTOTALS (STAGE 3C)			4,400	1,570	0	162	935	50	
	STAGE 3D										
		503+00 'EB'	-	523+00 'EB'	1,365	1,020	---	114	300	---	TEMPORARY RAMP B2
		SUBTOTALS (STAGE 3D)			1,365	1,020	0	114	300	---	
	STAGE 3E										
		503+00 'EB'	-	523+00 'EB'	1,880	850	---	156	600	---	TEMPORARY RAMP B3
		39+50	-	48+50	2,140	2,125	---	---	175	---	STH 65
		51+00	-	71+00	3,040	2,740	---	---	---	---	STH 65
		SUBTOTALS (STAGE 3E)			7,060	5,715	0	156	775	---	
	STAGE 3F										
		27+50	-	48+50	4,265	4,315	---	---	---	---	STH 65
		SUBTOTALS (STAGE 3F)			4,265	4,315	0	0	0	---	
		UNDISTRIBUTED			453	147	121	20	175	55	
		SUBTOTALS			132,338	113,330	10,774	2,806		400	
		TOTALS				259,248			21,900	400	

CONSTRUCTION STAKING

CATEGORY	STAGE	STATION		STATION	LOCATION	650.4500 SUBGRADE LF	650.5000 BASE LF	650.9920 SLOPE STAKES LF
0010		400+00 'EB'	-	534+39 'EB'	---	---	---	13,450
		411+00 'WB'	-	525+00 'WB'	---	---	---	11,400
		486+35 'A'	-	498+76 'A'	---	---	---	1,240
		498+29 'B'	-	513+86 'B'	---	---	---	1,560
		496+06 'C'	-	509+99 'C'	---	---	---	1,390
		482+78 'D'	-	498+27 'D'	---	---	---	1,550
		493+75 'DB'	-	499+99 'DB'	---	---	---	625
		33+10	-	48+41	---	---	---	1,530
		50+97	-	64+00	---	---	---	1,300
		SUBTOTALS				0	0	34,045
	STAGE 1A	402+03 'WB'	-	485+49 'WB'	LT	8,346	---	---
		513+00 'WB'	-	534+77 'WB'	LT	2,177	---	---
		SUBTOTALS (STAGE 1A)				10,523	0	0
	STAGE 1B	479+49 'WB'	-	508+00 'WB'	LT	2,851	---	---
		33+10	-	42+42	RT	930	---	---
		55+00	-	56+48	RT/LT	148	---	---
		57+39	-	64+00	RT	660	---	---
		36+65	-	37+16	STAR LANE	98	98	98
		SUBTOTALS (STAGE 1B)				4,687	98	98
	STAGE 2A	400+00 'EB'	-	488+72 'EB'	RT	7,570	8,870	---
		488+72 'EB'	-	490+50 'EB'	RT	180	180	---
		493+05 'EB'	-	505+90 'EB'	RT	1,290	1,290	---
		509+05 'EB'	-	534+39 'EB'	RT	1,600	2,530	---
		488+01 'A'	-	493+40 'A'	RT	540	---	---
		SUBTOTALS (STAGE 2A)				11,180	12,870	0
	STAGE 2B	490+50 'EB'	-	493+05 'EB'	RT	255	255	---
		505+90 'EB'	-	509+05 'EB'	RT	315	315	---
		493+40 'A'	-	496+00 'A'	RT	260	---	---
		500+54'B'	-	505+50 'B'	RT	496	---	---
		SUBTOTALS(STAGE 2B)				1,326	570	0
	STAGE 3B	413+00 'WB'	-	489+50 'WB'	LT	7,650	---	---
		504+00 'WB'	-	525+00 'WB'	LT	2,100	---	---
		502+00 'C'	-	509+99 'C'	LT	1,020	---	---
		482+78 'D'	-	496+31 'D'	LT	1,351	---	---
		493+74 'DB'	-	498+57 'DB'	LT	485	---	---
		SUBTOTALS (STAGE 3B)				12,606	0	0
	STAGE 3C	489+50 'WB'	-	504+00 'WB'	LT	1,450	---	---
		56+48	-	57+39	RT	91	---	---
		SUBTOTALS (STAGE 3C)				1,541	0	0
	STAGE 3E	42+42	-	43+86	RT	145	---	---
		56+34	-	64+00	LT	766	---	---
		505+50 'B'	-	513+86 'B'	RT	835	---	---
		SUBTOTALS (STAGE 3E)				1,746	0	0
	STAGE 3F	33+10	-	44+00	LT	1,090	---	---
		43+86	-	44+00	RT	14	---	---
		SUBTOTALS (STAGE 3F)				1,104	0	0
		SUBTOTAL (0010)				44,713	13,538	34,143
0100	PARK N RIDE	10+42 'PK'	-	1382 'PK'	RT	340	340	340
		SUBTOTALS (0100)				340	340	340
		PROJECT TOTALS				45,053	13,878	34,483

CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE)

CATEGORY	STRUCTURE	650.6500 LS
0010	01. B-55-249	1
	02. R-55-15	1
	03. R-55-16	1

CONSTRUCTION STAKING CONCRETE ROUNDABOUT

CATEGORY	LOCATION	SPV.0105.04 LS
0010	STH 65 INTERCHANGE	1

CONSTRUCTION STAKING SUPPLEMENTAL CONTROL

CATEGORY	PROJECT	650.9910 LS
0010	1020-07-74	1

ITS CONDUIT AND CABLE

CATEGORY	FROM	TO	LINEAR DISTANCE	652.0125 CONDUIT RIGID METALLIC 2-INCH LF*	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF*	655.0305 CABLE TYPE UF 2-12 AWG GROUNDED LF	674.0200 CABLE MICROWAVE DETECTOR LF
0010	PB01	PB02	325	--	650	--	--
	PB02	PB03	230	--	460	--	--
	PB03	RG-EB01	35	--	70	35	--
	PB03	PB04	255	--	510	255	--
	PB05	CCTV-55-0004	40	120	--	120	40
	PB05	PB11	135	--	270	--	135
	PB11	MD65	15	--	30	--	15
	PB05	PB06	85	--	170	170	--
	PB04	PB05	335	--	--	335	--
	CCTV-55-000	CB100	65	65	--	--	--
	PB06	PB07	200	--	400	400	--
	PB07	PB08	50	--	100	100	--
	PB08	RG-WB02	10	--	20	10	--
	PB08	PB09	310	--	620	310	--
	PB09	PB10	60	--	120	60	--
	PB10	RG-WB01	10	--	20	10	--
		TOTALS		185	3,440	1,805	190

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

ITS PULLBOXES

CATEGORY	STATION	LOCATION	ITEM ID	653.0135 PULL BOXES STEEL 24 x 36 EACH	653.0905 REMOVING PULL BOXES EACH
0010	499+05 "B"	605' RT	PB01	1	--
	499+05 "B"	290' RT	PB02	1	--
	499+20 "B"	60' RT	PB03	1	--
	48+00	50' RT	PB04	1	--
	51+25	45' RT	PB05	1	--
	51+40	45' LT	PB06	1	--
	497+15 "D"	10' RT	PB07	1	--
	497+15 "D"	35' LT	PB08	1	--
	498+35 "DB"	20' RT	PB09	1	--
	499+10 "DB"	30' LT	PB10	1	--
	499+00 "WB"	60' LT	PB11	1	--
	499+50 "B"	425' RT	EXPB10	--	1
	500+45 "B"	290' RT	EXPB11	--	1
			TOTALS	11	2

LIGHTING PULLBOXES

CATEGORY	PULLBOX NUMBER	STATION	OFFSET	R/L	653.0140 PULLBOXES STEEL 24X42-INCH EACH
0010	PB100	36+05	34.0	RT	1
	PB101	37+05.5	31.0	RT	1
	PB102	37+69	33.0	RT	1
	PB103	44+94	66.0	RT	1
	PB104	499+97'B'	30.6	RT	1
	PB105	499+92'B'	32.6	LT	1
	PB106	48+00	37.8	RT	1
	PB107	51+30	36.7	RT	1
	PB108	51+51	44.9	RT	1
	PB109	497+39'C'	10.0	RT	1
	PB110	497+45'C'	30.6	LT	1
	PB111	497+63'C'	70.3	LT	1
	PB112	54+46	56.7	RT	1
	PB113	54+37	3.7	LT	1
	PB114	54+17	64.5	LT	1
	PB115	498+96'D'	14.0	LT	1
	PB116	495+04'DB'	14.0	LT	1
	PB117	495+05'D'	14.0	RT	1
	PB118	497+00'D'	29.0	LT	1
	PB119	497+03'D'	10.0	RT	1
	PB120	51+50	37.6	LT	1
	PB121	47+98	39.1	LT	1
	PB122	496+95'A'	25.0	LT	1
	PB123	496+95'A'	25.0	RT	1
	PB124	45+20	60.5	LT	1
	PB125	45+10	11.6	LT	1
				SUBTOTALS (0010)	26
0100	PB200	66+61	240.8	RT	1
				SUBTOTALS (0100)	1
				PROJECT TOTALS	27

LIGHTING CONDUIT AND WIRE

CATEGORY	FROM	TO	652.0125 CONDUIT RIGID METALLIC 2-INCH LF*	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF*	652.0235 3-INCH LF	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG LF	655.0630 4 AWG LF
0010	PB100	PB101	--	100	--	--	--
	PB101	PB102	--	60	--	--	--
	PB102	SL100	--	10	--	--	63
	SL100	SL101	--	175	--	--	925
	SL101	SL102	--	180	--	--	950
	SL102	SL103	--	185	--	--	975
	SL103	SL104	--	165	--	--	875
	SL104	PB103	--	40	--	--	255
	PB103	SL105	--	60	--	--	355
	SL105	PB102	--	75	--	--	430
	PB104	SL106	--	--	35	--	460
	SL106	SL107	--	135	--	--	435
	PB103	PB125	--	80	--	--	--
	PB125	SL140	--	30	--	--	123
	PB104	PB105	--	65	--	--	385
	PB105	SL108	--	35	--	--	230
	SL108	SL109	--	100	--	--	550
	SL109	PB106	--	40	--	--	255
	PB106	PB119	--	75	--	--	435
	PB106	SL110	10	--	--	--	480
	SL110	PB107	20	--	--	--	1,230
	PB107	CB100	--	--	15	--	135
	CB100	PB108	--	--	30	--	630
	PB108	SL111	--	10	--	--	105
	SL111	SL112	--	100	--	--	550
	SL112	PB109	--	70	--	--	405
	PB109	PB110	--	40	--	--	260
	PB110	SL113	--	--	20	--	465
	PB110	PB111	--	--	40	--	520
	PB111	SL114	--	145	--	--	780
	SL114	SL115	--	155	--	--	495
	PB111	PB112	--	100	--	--	560
	PB112	SL116	--	140	--	--	453
	PB112	PB113	--	--	60	--	576
	PB113	SL117	--	--	20	--	403
	PB113	PB114	--	65	--	--	385
	PB114	SL119	--	45	--	--	280
	SL119	SL120	--	140	--	--	450
	SL120	PB115	--	50	--	--	--
	PB115	SL121	--	150	--	--	805
	SL121	SL122	--	180	--	--	950
	SL122	SL123	--	185	--	--	975
	SL123	SL124	--	210	--	--	660
	PB115	SL125	--	35	--	--	230
	SL125	SL126	--	155	--	--	825
	SL126	SL127	--	150	--	--	800
	SL127	PB116	--	60	--	--	355
	PB116	PB117	--	45	--	--	285
	PB117	SL129	--	115	--	--	630

CONT'D. ABOVE

LIGHTING CONDUIT AND WIRE (CONT'D.)

CATEGORY	FROM	TO	652.0125 CONDUIT RIGID METALLIC 2-INCH LF*	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF*	652.0235 3-INCH LF	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG LF	655.0630 4 AWG LF
0010	SL129	SL128	--	165	--	--	525
	PB117	SL130	--	--	80	--	910
	SL130	PB119	--	115	--	--	630
	PB119	PB118	--	40	--	--	156
	PB118	SL118	--	60	--	--	213
	SL118	PB112	--	40	--	--	--
	PB119	SL131	--	--	30	--	328
	SL131	SL132	--	105	--	--	575
	SL132	PB120	--	50	--	--	305
	PB120	PB108	--	165	--	--	1,770
	PB120	SL133	25	--	--	--	530
	SL133	PB121	35	--	--	--	1,355
	PB121	SL134	--	15	--	--	130
	SL134	SL135	--	110	--	--	600
	SL135	PB122	--	80	--	--	455
	PB122	PB123	--	50	--	--	310
	PB123	SL137	--	100	--	--	555
	SL137	SL136	--	150	--	--	480
	PB123	SL138	--	--	30	--	410
	SL138	SL139	--	115	--	--	625
	SL139	PB124	--	--	25	--	216
	PB124	PB125	--	50	--	--	186
	PB124	SL141	--	145	--	--	678
	SUBTOTALS (0010)		90	5510	385	0	35320
0100	CB200	PB200	--	35	--	1,355	--
	PB200	SL200	--	115	--	381	--
	SL200	SL201	--	115	--	375	--
	SL201	SL202	--	100	--	330	--
	CB200	SL203	--	120	--	393	--
	SL203	SL204	--	90	--	300	--
	SL204	SL205	--	100	--	330	--
	SL205	SL206	--	100	--	330	--
	SUBTOTALS (0100)		0	775	0	3794	0
	PROJECT TOTALS		90	6285	385	3794	35320

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

POLE AND RAMP CLOSURE GATE ITEMS

CATEGORY	STATION	LOCATION	ITEM ID	LINEAR DISTANCE	654.0105 CONCRETE BASES TYPE 5 EACH	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH*	657.0321 POLES TYPE 5-STEEL EACH	675.0300 INSTALL MOUNTED CONTROLLER MICROWAVE DETECTOR ASSEMBLY EACH	SPV.0060.56 RAMP CLOSURE GATE FLASHERS STOCKPILE EACH	SPV.0060.57 RAMP CLOSURE GATES HARDWIRED 32-FT EACH	SPV.0060.58 RAMP CLOSURE GATE ARMS STOCKPILE 32-FT EACH
0010	499+44 "B"	32' RT	RG-EB01	--	1	1	--	--	--	1	--
	499+16 "DB"	30' LT	RB-WB01	--	1	1	--	--	--	1	--
	497+22 "D"	27' LT	RB-WB02	--	1	1	--	--	--	1	--
	499+10	60' LT	MD65	--	1	1	1	1	--	--	--
			UNDISTRIBUTED	--	--	--	--	--	1	--	1
			TOTALS		4	4	1	1	1	3	1

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

LIGHTING CONTROL & MISCELLANEOUS ITEMS

CATEGORY	CABINET NUMBER	STATION	OFFSET	R/L	654.0217 CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL EACH	654.0220 BASES TYPE 10 EACH	657.0100 PEDESTAL BASES EACH	657.0405 TRAFFIC SIGNAL STANDARDS ALUMINUM 3.5-FT EACH	SPV.0060.02 LIGHTING CONTROL CABINET TYPE A EACH	SPV.0060.03 LIGHTING CONTROL CABINET TYPE B EACH	656.0200.01 ELECTRICAL SERVICE METER BREAKER PEDESTAL LS	656.0200.02 ELECTRICAL SERVICE METER BREAKER PEDESTAL LS	650.8500.01 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS LS
0010	CB100	51+37	58.2	RT	1	--	--	--	1	--	1	--	0.7
		SUBTOTALS (0010)			1	0	0	0	1	0	1	0	0.7
0100	CB200	66+54	247.9	RT	--	1	1	1	--	1	--	1	0.3
		SUBTOTALS (0100)			0	1	1	1	0	1	0	1	0.3
		PROJECT TOTALS			1	1	1	1	1	1	1	1	1

STREET LIGHTS

CATEGORY	LIGHT NUMBER	STATION	OFFSET	R/L	SPV.0060.04 CONCRETE BASES TYPE 5 BUMPER TYPE EACH	654.0106 CONCRETE BASES TYPE 6 EACH	657.0255 TRANSFORMER BASES STANDARD 11 1/2-INCH BOLT CIRCLE EACH*	657.0322 POLES TYPE 5 ALUMINUM EACH	657.0327 POLES TYPE 6 ALUMINUM EACH	657.0710 LUMINAIRE ARMS TRUSS TYPE 4 1/2-INCH CLAMP 12-FT EACH	657.0715 LUMINAIRE ARMS TRUSS TYPE 4 1/2-INCH CLAMP 15-FT EACH	659.0115 LUMINAIRES UTILITY HPS 150 WATT EACH	659.0125 LUMINAIRES UTILITY HPS 250 WATT EACH	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF
0010	SL100	37+57	32.5	RT	--	1	1	--	1	--	1	1	--	168
	SL101	39+28	34.2	RT	--	1	1	--	1	--	1	1	--	168
	SL102	41+04	47.3	RT	--	1	1	--	1	--	1	1	--	168
	SL103	42+89	51.6	RT	--	1	1	--	1	--	1	--	1	168
	SL104	44+55	51.9	RT	--	1	1	--	1	--	1	--	1	168
	SL105	45+88	97.7	RT	--	1	1	--	1	--	1	--	1	168
	SL106	500+32'B'	28.2	RT	--	1	1	--	1	--	1	--	1	168
	SL107	501+21'B'	27.0	RT	--	1	1	--	1	--	1	1	--	168
	SL108	46+95	99.7	RT	--	1	1	--	1	--	1	--	1	168
	SL109	47+67	45.2	RT	--	1	1	--	1	--	1	--	1	168
	SL110	48+91	35.4	RT	--	--	--	--	1	--	1	--	1	162
	SL111	51+71	49.8	RT	--	1	1	--	1	--	1	--	1	168
	SL112	52+58	98.6	RT	--	1	1	--	1	--	1	--	1	168
	SL113	497+19'C'	31.3	LT	--	1	1	--	1	--	2	--	2	336
	SL114	498+96'C'	28.6	LT	--	1	1	--	1	--	1	--	1	168
	SL115	500+34'C'	27.0	LT	--	1	1	--	1	--	1	1	--	168
	SL116	55+73	43.7	RT	--	1	1	--	1	--	1	1	--	168
	SL117	54+23	10.1	RT	--	1	1	--	1	--	1	--	1	168
	SL118	53+79	80.1	LT	--	1	1	--	1	--	1	--	1	168
	SL119	54+86	47.3	LT	--	1	1	--	1	--	1	--	1	168
	SL120	56+24	53.2	LT	--	1	1	--	1	--	1	--	1	168
	SL121	58+16	78.1	LT	--	1	1	--	1	--	1	1	--	168
	SL122	59+92	67.7	LT	--	1	1	--	1	--	1	1	--	168
	SL123	61+72	48.7	LT	--	1	1	--	1	--	1	1	--	168
	SL124	63+79	24.5	LT	--	1 Eliminated	1	--	1	Eliminated	1	1	--	168
	SL125	498+62'DB'	12.0	LT	--	1	1	--	1	--	1	1	--	168
	SL126	497+09'DB'	12.0	LT	--	1	1	--	1	--	1	1	--	168
	SL127	495+61'DB'	12.0	LT	--	1	1	--	1	--	1	1	--	168
	SL128	492+26'D'	12.0	RT	--	1	1	--	1	--	1	1	--	168
	SL129	493+91'D'	12.0	RT	--	1	1	--	1	--	1	1	--	168
	SL130	495+86'D'	12.0	RT	--	1	1	--	1	--	1	1	--	168
	SL131	52+80	98.5	LT	--	1	1	--	1	--	1	--	1	168
	SL132	51+86	52.6	LT	--	1	1	--	1	--	1	--	1	168
	SL133	50+55	35.4	LT	--	--	--	--	1	--	1	--	1	162
	SL134	47+88	47.9	LT	--	1	1	--	1	--	1	--	1	168
	SL135	46+81	105.9	LT	--	1	1	--	1	--	1	--	1	168
	SL136	494+04'A'	27.0	RT	--	1	1	--	1	--	1	1	--	168
	SL137	495+50'A'	25.0	RT	--	1	1	--	1	--	1	--	1	168
	SL138	497+12'A'	25.0	RT	--	1	1	--	1	--	1	--	1	168
	SL139	498+39'A'	62.0	RT	--	1	1	--	1	--	1	--	1	168
	SL140	45+39	7.6	RT	--	1	1	--	1	--	1	--	1	168
	SL141	43+77	53.2	LT	--	1	1	--	1	--	1	1	--	168
			SUBTOTAL (0010)		0	40	40	0	42	0	43	18	25	7212
0100	SL200	66+78	276.0	RT	1	--	--	1	--	1	--	1	--	138
	SL201	67+86	258.0	RT	1	--	--	1	--	2	--	2	--	230
	SL202	68+70	227.7	RT	1	--	--	1	--	2	--	2	--	230
	SL203	65+73	167.0	RT	1	Eliminated	--	1	--	1	--	1	--	138
	SL204	66+56	174.9	RT	1	--	--	1	--	2	--	2	--	230
	SL205	67+46	137.4	RT	1	--	--	1	--	2	--	2	--	230
	SL206	68+35	105.3	RT	1	--	--	1	--	2	--	2	--	230
			SUBTOTAL (0100)		7	0	0	7	0	12	0	12	0	1426
			PROJECT TOTALS		7	40	40	7	42	12	43	30	25	8638

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

3

ITS POWER

CATEGORY	ITEM I.D.	LOCATION	MB I.D.	NUMBER OF WIRES	WIRE LINEAR DISTANCE FROM CABINET TO METER BREAKER	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG LF	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG LF
0010	CCTV-55-000	CB100 - CCTV-55-0004	MB FOR CB100	3	65	65	195

TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS

CATEGORY	INTERSECTION	661.0200 LS
0010	01. EXISTING 'A'/'B' RAMP	1

ITS CCTV

CATEGORY	ITEM I.D.	STATION	LOCATION	672.0250 BASE CAMERA POLE 50-FT EACH	677.0100 INSTALL CAMERA POLE EACH	677.0200 INSTALL CAMERA ASSEMBLY EACH	677.9200.S REMOVING CCTV CAMERA EACH	SPV.0060.55 GROUND ROD EACH
0010	CCTV-55-0004	50+85	45' RT	1	1	1	--	1
	MD65	499+10	60' LT	--	--	--	--	1
	RG-EB01	499+44 "B"	32' RT	--	--	--	--	1
	RB-WB01	499+16 "DB"	30' LT	--	--	--	--	1
	RB-WB02	497+22 "D"	27' LT	--	--	--	--	1
	EX-CCTV-55-000	51+10	55' RT	--	--	--	1	--
			TOTALS	1	1	1	1	5

ITS FIBER OPTIC ITEMS

CATEGORY	FROM	TO	LINEAR DISTANCE	FIBER SLACK	671.0300 FIBER OPTIC CABLE MARKER EACH	674.0300 REMOVE CABLE LF	678.0006 INSTALL FIBER OPTIC CABLE OUTDOOR PLANT 6-COUNT LF	678.0300 FIBER OPTIC SPLICE EACH	678.0400 FIBER OPTIC TERMINATION EACH
0010	EXV01	EXPB10	205	---	--	205	--	--	--
	EXPB1	EXPB11	155	---	--	155	--	--	--
	EXPB1	EXCB01	20	---	--	20	--	--	--
	EXV01	PB01	20	50	1	--	70	6	--
	PB01	PB02	325	---	2	--	325	--	--
	PB02	PB03	230	---	2	--	230	--	--
	PB03	PB04	255	---	1	--	255	--	--
	PB04	PB05	335	---	---	--	335	--	--
	PB05	CCTV-55-0004	40	---	1	--	40	--	6
				TOTALS	7	380	1,255	6	6

ITS CABINETS

CATEGORY	ITEM I.D.	STATION	LOCATION	659.0802 PLAQUES SEQUENCE IDENTIFICATION EACH	673.0225.S INSTALL POLE MOUNTED CABINET EACH	675.0400.S INSTALL ETHERNET SWITCH EACH	677.0300.S INSTALL VIDEO ENCODER EACH	SPV.0060.50 REMOVING POLE-MOUNT CABINET EACH	SPV.0060.51 REMOVING ETHERNET SWITCH EACH	SPV.0060.52 REMOVING VIDEO ENCODER EACH	SPV.0060.53 REMOVING WIRELESS ETHERNET BRIDGE EACH	SPV.0060.54 REMOVING TEMPORARY CAMERA POLE EACH
0010	CCTV-55-0004	50+85	45' RT	1	1	1	1	--	--	--	--	--
	EX-CCTV-55-000	51+10	55' RT	--	--	--	--	1	--	--	1	1
	EXCB01	500+20 "B"	290' RT	--	--	--	--	--	1	1	1	--
			TOTALS	1	1	1	1	1	1	1	2	1

SAWING PAVEMENT SUMMARY

CATEGORY	STAGE	STATION	-	STATION	LOCATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF
0010	1A	403+83 'WB'	-	479+50 'WB'	LT	7,587	---
		490+42 'D1'	-	492+13 'D1'	LT	72	---
		512+71 'WB'	-	534+78 'WB'	LT	2,259	---
		27+62	-	39+08	LT	1,146	---
		42+10	-	42+84	LT	39	94
		43+02	-	---	LT	97	---
		56+44	-	56+94	LT	127	---
		57+04	-	60+00	LT	445	---
		59+35	-	64+35	LT	404	177
				SUBTOTALS (STAGE 1A)		12,176	271
	1B	479+50 'WB'	-	491+10 'WB'	LT	1,410	---
		525+25 'C1'	-	525+35 'C1'	RT	---	13
		505+75 'WB'	-	507+25 'WB'	LT	153	---
		507+25 'WB'	-	513+00 'WB'	LT	626	---
		513+00 'WB'	-	526+00 'WB'	LT	1,348	---
				SUBTOTALS (STAGE 1B)		3,537	13
	1C	397+50 'EB'	-	413+50 'EB'	LT	1,608	---
		526+00 'EB'	-	539+57 'EB'	LT	1,365	---
		531+91 'EB'	-	547+25 'EB'	RT	1,555	---
		399+00 'WB'	-	539+75 'WB'	RT	14,127	---
				SUBTOTALS (STAGE 1C)		18,655	0
	1D	491+50 'EB'	-	---	LT/RT	14	24
		492+00 'EB'	-	---	LT/RT	14	24
		494+49 'A1'	-	496+38 'A1'	RT	191	---
		506+60 'EB'	-	---	LT/RT	14	24
		507+50 'EB'	-	---	LT/RT	14	24
		504+86 'B1'	-	506+08 'B1'	RT	123	---
				SUBTOTALS (STAGE 1D)		370	96
	2A	400+00 'EB'	-	413+00 'EB'	RT	1,311	---
		413+00 'EB'	-	---	LT/RT	14	24
		495+48 'A2'	-	496+94 'A2'	RT	158	---
		504+21 'B2'	-	506+02 'B2'	RT	54	136
		525+00 'EB'	-	---	LT/RT	14	24
		525+44 'EB'	-	534+41 'EB'	RT	907	---
				SUBTOTALS (STAGE 2A)		2,458	184

CONT'D ABOVE

SAWING PAVEMENT SUMMARY (CONT'D)

CATEGORY	STAGE	STATION	-	STATION	LOCATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF
0010	2B	28+39	-	33+40	RT	471	---
		64+00	-	---	RT	30	---
		65+39	-	68+00	RT	268	---
				SUBTTOTALS (STAGE 2B)		769	0
	3A	491+00 'WB'	-	---	LT/RT	48	24
		496+20 'D2'	-	497+03 'D2'	LT/RT	85	---
		504+00 'WB'	-	---	LT/RT	51	24
				SUBTOTALS (STAGE 3A)		184	48
	3B	412+50 'WB'	-	---	LT/RT	14	24
		438+53 'WB'	-	---	RT	25	---
		525+00 'WB'	-	---	LT/RT	14	24
				SUBTOTALS (STAGE 3B)		53	48
	3D	397+50 'EB'	-	411+77 'EB'	LT	1,427	---
		525+00 'EB'	-	539+57 'EB'	LT	1,457	---
		397+50 'WB'	-	411+74 'WB'	RT	1,432	---
		406+12 'WB'	-	413+00 'WB'	LT	689	---
		525+00 'WB'	-	539+74 'WB'	RT	1,474	---
		525+00 'WB'	-	531+94 'WB'	LT	695	---
		526+00 'EB'	-	---	LT	30	---
				SUBTOTALS (STAGE 3D)		7,204	0
	3F	400+00 'EB'	-	486+33 'EB'	RT	8,633	---
		486+37 'A'	-	494+00 'A'	RT	752	---
		487+97 'EB'	-	510+66 'EB'	RT	2,344	---
		513+85 'EB'	-	525+44 'EB'	RT	1,156	---
				SUBTOTALS (STAGE 3F)		12,885	0
				UNDISTRIBUTED		709	40
				SUBTOTAL (0010)		59,000	700
0100				10+42'PK'	LT/RT	165	0
				SUBTOTAL (0100)		165	0
				PROJECT TOTALS		59,165	700

3

3

3

ABANDONING CULVERT PIPE SPECIAL

CATEGORY	STATION	-	STATION	LOCATION	SPV.0035.01 CY	REMARKS
0010	414+82 'EB'	-	415+87 'EB'	RT/LT	45	24" X 226' RCCP
	425+41 'EB'	-	425+94 'EB'	RT/LT	35	30" X 205' RCCP
	444+45 'EB'	-	446+88 'EB'	RT/LT	55	30" X 301' RCCP
	505+07 'C'	-	505+67 'C'	RT/LT	25	30" X 90' RCCP
			TOTAL		160	

SEALING INLETS

CATEGORY	STATION	LOCATION	SPV.0060.01 EACH	REMARKS
0010	422+50 'EB'	30' LT	1	STAGE 3

TEMPORARY INLET CASTING SUMMARY

CATEGORY	STRUCTURE	STATION	LOCATION	SPV.0060.09 R-3227 EACH	SPV.0060.10 R-3403 EACH
0010	30D	10+55 EB1	2' LT	1	---
	30E	10+45 EB1	2' LT	1	---
	30F	10+45 EB1	32.5' RT	---	1
		TOTALS		2	1

BORE AND JACK

CATEGORY	STAGE	STATION	LOCATION	SPV.0090.02 CLASS V 30-INCH LF	SPV.0090.03 CLASS V 36-INCH LF	REMARKS
0010	STAGE 1	425+78 'EB'	68' RT	---	200	
		444+56 'EB'	53' RT	296	---	
		SUBTOTALS (STAGE 1)		296	200	
	STAGE 2	415+25 'EB'	36' LT	136	---	BORE NORTH
		495+00 'EB'		---	125	BORE NORTH
		505+75 'C'		168	---	BORE NORTH
		SUBTOTALS (STAGE 2)		304	125	
			TOTALS	600	325	

REMOVING PAVED DITCH

CATEGORY	STATION	-	STATION	LOCATION	SPV.0090.04 LF
0010	422+72 'WB'	-	424+71 'WB'	LT	199
	430+66 'WB'	-	432+97 'WB'	LT	231
	474+71 'WB'	-	476+17 'WB'	LT	146
	424+05 'EB'	-	425+16 'EB'	RT	111
	428+40 'EB'	-	431+49 'EB'	RT	309
	469+41 'EB'	-	470+16 'EB'	RT	75
	506+50'B'	-	509+12'B'	RT	260
			TOTAL		1,331

PROJECT CONCRETE CRACK MITIGATION AND REPAIR

CATEGORY	PROJECT	SPV.0105.02 LS
0010	1020-07-74	1

TEMPORARY SHORING

CATEGORY	STAGE	STATION	-	STATION	LOCATION	206.6000.S SF
0010	STAGE 1A	497+24 EB	-	497+94 EB	RT	340
	STAGE 1B	497+94 EB	-	499+26 EB	RT	680
				TOTALS		1,020

SCARIFY AND COMPACT

CATEGORY	STAGE	STATION	-	STATION	LOCATION	SPV.0170.01 STA
0010	STAGE 2	497+00 EB	-	490+00 EB	LT/RT	20
		486+35 A	-	490+00 A	LT/RT	4
	STAGE 3	497+00 WB	-	490+00 WB	LT/RT	20
		482+78 D	-	490+00 D	LT/RT	7
				TOTALS		51

Add to the project

FTMS EACH QUANTITIES

ROAD	ITEM ID	LOCATION	653.0135 PULL BOXES STEEL 24X36-INCH EACH	656.0200.01 ELECTRICAL SERVICE METER BREAKER PEDESTAL (MB3501) LS	656.0200.02 ELECTRICAL SERVICE METER BREAKER PEDESTAL (MBT01) LS	656.0500.01 ELECTRICAL SERVICE BREAKER DISCONNECT BOX (CCTV-55-0030) LS	656.0500.02 ELECTRICAL SERVICE BREAKER DISCONNECT BOX (CCTV-55-0032) LS	656.0500.03 ELECTRICAL SERVICE BREAKER DISCONNECT BOX (CCTV-55-0033) LS	659.0802 PLAQUES SEQUENCE IDENTIFICATION EACH	672.0250 BASE CAMERA POLE 50-FT EACH	673.0225.S INSTALL POLE MOUNTED CABINET EACH	675.0400.S INSTALL ETHERNET SWITCH EACH	677.0100 INSTALL CAMERA POLE EACH	677.0200 INSTALL CAMERA ASSEMBLY EACH	677.0300.S INSTALL VIDEO ENCODER EACH	678.0400 FIBER OPTIC TERMINATION EACH	SPV.0060.XX GROUND ROD EACH	SPV.0060.XX INSTALL 5.8 GHZ ETHERNET BRIDGE EACH
IH 94																			
	MB3501	STH 35	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	PB3501		1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CCTV-55-0030		--	--	--	1	--	--	1	1	1	--	1	1	1	--	1	1	
	CCTV-55-0031	14TH ST.	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	1	
	PB1402		1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	PB1403		1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	PB1404		1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	EXCAB1401		--	--	--	--	--	--	1	--	--	--	1	--	--	1	6	--	--
	EXCVEC525MNBL		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	EXCVEC411MNBL	CTH T	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	PBT05		1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	PBT04		1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	PBT03		1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	PBT02		1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	PBT01		1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	MBT01		--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CCTV-55-0032		--	--	--	--	1	--	1	1	1	1	1	1	1	6	1	--	
	EXCVEC383MNBL	STH 63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	PB6301		1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	PB6302		1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	PB6303		1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	PB6304		1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	PB6305		1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	PB6306		1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CCTV-55-0033		--	--	--	--	--	1	1	1	1	1	1	1	1	6	1	--	
	TOTALS		15	1	1	1	1	1	4	3	3	3	3	4	4	18	3	2	

PROJECT NO: 1020-07-74	**HWY: IH 94**	**COUNTY: ST. CROIX**	**FTMS MISCELLANEOUS QUANTITIES**	**SHEET NO:** **E**

FILE NAME : PLOT DATE: 3/24/2014 3:36:01 PM PLOT BY : PLOT NAME : ORG DATE : ORIGINATOR : PLOT SCALE : N/A

FTMS LINEAR FOOT MISCELLANEOUS QUANTITIES

Add to the project

ROAD	ITEM ID	LOCATION	652.0125 CONDUIT RIGID METALLIC 2-INCH L.F.	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	652.0605 CONDUIT SPECIAL 2-INCH L.F.	652.0700.S INSTALL CONDUIT INTO EXISTING ITEM EACH	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG LF	671.0300 FIBER OPTIC CABLE MARKER EACH	673.0105 COMMUNICATION VAULT TYPE 1 EACH	678.0006 INSTALL FIBER OPTIC CABLE OUTDOOR PLANT 6-CT LF	678.0300 FIBER OPTIC SPLICE EACH
IH 94												
	MB3501 - PB3501	STH 35	--	125	--	--	--	375	--	--	--	--
	PB3501 - CCTV-55-0030		10	10	--	--	--	30	--	--	--	--
	EXCVEC525MNBL - PB1404	14TH ST.	--	720	--	1	360	--	2	1	460	15
	PB1404 - PB1403		--	660	--	--	330	--	2	--	380	--
	PB1403 - PB1402		--	660	--	--	330	--	2	--	380	--
	PB1402 - EXPB1401		--	--	340	1	170	--	2	--	220	--
	EXPB1401 - EXCAB1401		--	--	--	--	25	--	1	--	75	--
	MBT01 - CCTV-55-0032	CTH T	50	--	--	--	--	150	--	--	--	--
	EXCVEC411MNBL - PBT05		--	320	--	1	160	--	2	1	260	15
	PBT05 - PBT04		--	--	440	--	220	--	2	--	270	--
	PBT04 - PBT03		--	450	--	--	225	--	2	--	275	--
	PBT03 - PBT02		--	400	--	--	200	--	2	--	250	--
	PBT02 - PBT01		--	--	230	--	115	--	2	--	165	--
	PBT01 - CCTV-55-0032		--	30	--	--	15	--	1	--	65	--
	EXCVEC383MNBL - PB6301	STH 63	--	150	--	1	--	--	2	1	250	15
	PB6301 - PB6302		--	--	135	--	135	--	2	--	185	--
	PB6302 - PB6303		--	215	--	--	215	--	2	--	265	--
	PB6303 - PB6304		--	230	--	--	280	--	2	--	330	--
	EXCAB6301 - PB6304		--	20	--	--	--	60	--	--	--	--
	PB6304 - PB6305		--	--	150	--	75	--	1	--	125	--
	PB6305 - PB6306		--	200	--	--	100	--	1	--	150	--
	PB6306 - CCTV-55-0033		15	30	--	--	15	--	1	--	65	--
TOTALS			75	4220	1295	4	2970	615	31	3	4170	45

FTMS LUMP SUM MISCELLANEOUS QUANTITIES

ROAD	LOCATION	670.0100 FIELD SYSTEM INTEGRATOR LS	670.0200 ITS DOCUMENTATION LS	678.0500 COMMUNICATION SYSTEM TESTING LS
IH 94				
	PROJECT	1	1	1
TOTAL		1	1	1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

TRANSPORTATION PROJECT PLAT TITLE SHEET

PROJECT NO. - 1020-07-20

HUDSON - MENOMONIE ROAD, STH 65 INTERCHANGE

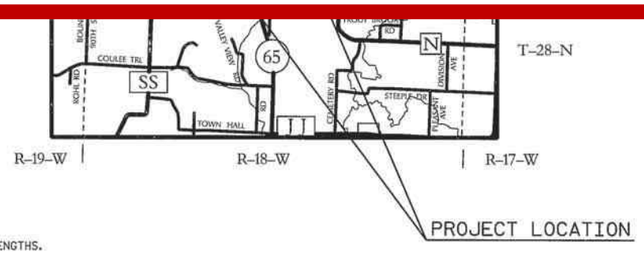
IH 94

ST CROIX COUNTY



CONTACT DOT-REAL ESTATE

FOR THE MOST CURRENT PLAT



NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, ST. CROIX COUNTY ZONE, NAD83 (91) ADJUSTMENT THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT ALL DISTANCES ARE GROUND LENGTHS.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2, TYPICALLY ¾" x 24" REBAR, AND SHALL BE PLACED PRIOR TO COMPLETION OF THE PROJECT

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U S PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD"

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

DIMENSIONING FOR THE NEW R/W IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES

EXISTING HIGHWAY RIGHT-OF-WAY FOR SIDE ROADS ESTABLISHED FROM FOUND SURVEY MONUMENTS, RECORDED PLATS, AND OTHER SURVEYS OF RECORD.

THE NOTES, CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR PROJECT 1020-07-20.

DISTANCES SHOWN FROM BUILDINGS TO R/W LINES ARE APPROXIMATE ONLY

TEMPORARY LIMITED EASEMENT

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE ALL TLEs EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN

N

LAYOUT
SCALE 0 1 MI.

TOTAL NET LENGTH OF CENTERLINE = 2.121 MI

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE		
HIGHWAY EASEMENT	H.E.		
IRON PIPE	I.P.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		
REFERENCE LINE	R/L		
REBAR	RBR		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	I.P. (I" UNLESS NOTED)	PROPOSED R/W LINE	
R/W MONUMENT	⊙ (SET)	EXISTING H.E. LINE	
R/W STANDARD	△ (SET)	PROPERTY LINE	
SIGN	SIGN	LOT & TIE LINES	
SECTION CORNER MONUMENT	⊕	SLOPE INTERCEPTS	
SECTION CORNER SYMBOL		CORPORATE LIMITS	
FEE (HATCH VARIES)		NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)	
TEMPORARY LIMITED EASEMENT		NO ACCESS (BY ACQUISITION)	
PERMANENT LIMITED EASEMENT		NO ACCESS (BY STATUTORY AUTHORITY)	
R/W BOUNDARY POINT	RWB20	SECTION LINE	
PARCEL NUMBER	102	QUARTER LINE	
SIGN NUMBER (OFF PREMISE)	21	SIXTEENTH LINE	
BUILDING		EXISTING CENTERLINE	
		PROPOSED REFERENCE LINE	
		PARALLEL OFFSET	

CONVENTIONAL UTILITY SYMBOLS

WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD TRANSMISSION LINES	OH	
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1020-07-20 - 4.01
SHEET 2 OF 2
AMENDMENT NO:

FILE NAME : $$....designfile....$$
APPRAISAL PLAT DATE :

PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME .

PLOT SCALE : $$.....plotscale.....$$

4.

TRANSPORTATION PROJECT PLAT NO: 1020-07-20 - 4.01

THAT PART OF LOT 1 OF CSM IN V.3, P.824, LOTS 1 & 2 OF CSM IN V.5 P.1399 BEING PART OF THE NE1/4 OF THE NW1/4 OF SECTION 32, TOWN 29 NORTH, RANGE 18 WEST, TOWN OF WARREN, ST. CROIX COUNTY, WISCONSIN.

RELOCATION ORDER IH 94, HUDSON - MENOMONIE ROAD, STH 65 INTERCHANGE, ST. CROIX COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES

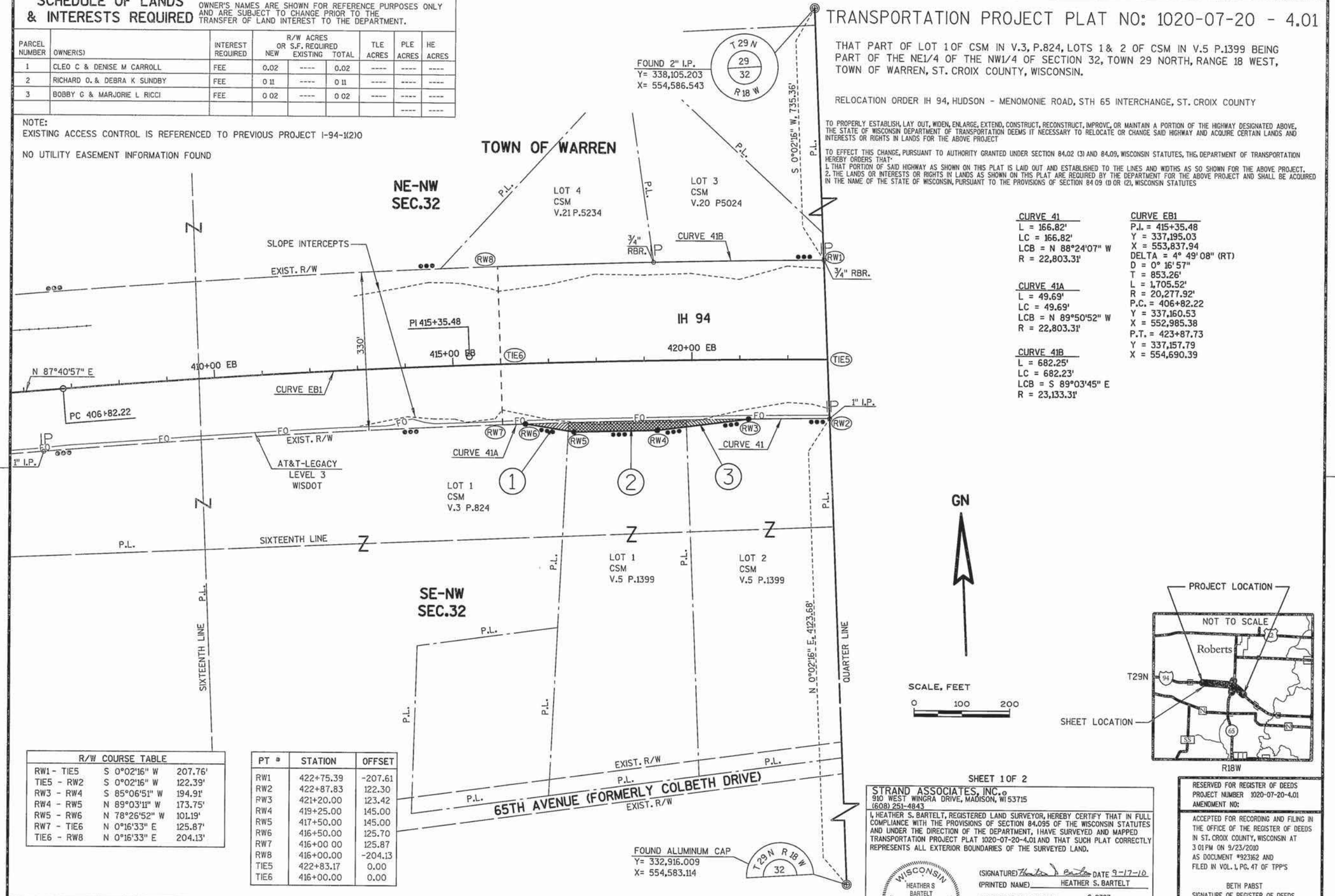
SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES OR S.F. REQUIRED NEW	EXISTING	TOTAL	TLE ACRES	PLE ACRES	HE ACRES
1	CLEO C & DENISE M CARROLL	FEE	0.02	----	0.02	----	----	----
2	RICHARD O. & DEBRA K SUNDBY	FEE	0 11	----	0 11	----	----	----
3	BOBBY G & MARJORIE L RICCI	FEE	0 02	----	0 02	----	----	----
							----	----

NOTE:
EXISTING ACCESS CONTROL IS REFERENCED TO PREVIOUS PROJECT I-94-1(2)0

NO UTILITY EASEMENT INFORMATION FOUND



GN

SCALE, FEET
0 100 200

R/W COURSE TABLE		
RW1 - TIE5	S 0°02'16" W	207.76'
TIE5 - RW2	S 0°02'16" W	122.39'
RW3 - RW4	S 85°06'51" W	194.91'
RW4 - RW5	N 89°03'11" W	173.75'
RW5 - RW6	N 78°26'52" W	101.19'
RW7 - TIE6	N 0°16'33" E	125.87'
TIE6 - RW8	N 0°16'33" E	204.13'

PT #	STATION	OFFSET
RW1	422+75.39	-207.61
RW2	422+87.83	122.30
RW3	421+20.00	123.42
RW4	419+25.00	145.00
RW5	417+50.00	145.00
RW6	416+50.00	125.70
RW7	416+00 00	125.87
RW8	416+00.00	-204.13
TIE5	422+83.17	0.00
TIE6	416+00.00	0.00

ROAD NAME	BASIS OF EXISTING R/W	YEAR	WIDTH
IH 94	PREVIOUS PROJECT I-94-1(2)0, CSM VOL.5, P.1399 CSM VOL.3, P.824	VARIES	330'

CURVE 41	
L =	166.82'
LC =	166.82'
LCB =	N 88°24'07" W
R =	22,803.31'

CURVE 41A	
L =	49.69'
LC =	49.69'
LCB =	N 89°50'52" W
R =	22,803.31'

CURVE 41B	
L =	682.25'
LC =	682.23'
LCB =	S 89°03'45" E
R =	23,133.31'

CURVE EB1	
P.I. =	415+35.48
Y =	337,195.03
X =	553,837.94
DELTA =	4° 49' 08" (RT)
D =	0° 16' 57"
T =	853.26'
L =	1,705.52'
R =	20,277.92'
P.C. =	406+82.22
Y =	337,160.53
X =	552,985.38
P.T. =	423+87.73
Y =	337,157.79
X =	554,690.39

SHEET 1 OF 2

STRAND ASSOCIATES, INC.®
910 WEST WINGRA DRIVE, MADISON, WI 53715
(608) 251-4843

I, HEATHER S. BARTELT, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1020-07-20-4.01 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN HEATHER S BARTELT S-2797 MADISON WI LAND SURVEYOR

(SIGNATURE) Heather S Bartelt DATE 9-17-10
(PRINTED NAME) HEATHER S. BARTELT
(REGISTRATION NUMBER) S-2797

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
(SIGNATURE) _____ DATE _____
(PRINTED NAME) MICHAEL PILLER

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1020-07-20-4.01
AMENDMENT NO:

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN ST. CROIX COUNTY, WISCONSIN AT 3 01 PM ON 9/23/2010 AS DOCUMENT #923162 AND FILED IN VOL. 1, PG. 47 OF TPP'S

BETH PABST
SIGNATURE OF REGISTER OF DEEDS

FILE NAME : $$.. designfile....$$
APPRAISAL PLAT DATE :
PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME :
PLOT SCALE : $$.....plotscale.....$$

TRANSPORTATION PROJECT PLAT NO: 1020-07-20 - 4.02

THAT PART OF LOT 2 CSM V.4, P.1054, LOT 3 CSM V.23, P.5530, BEING PART OF THE NW1/4 OF THE NE1/4, AND PART OF GOV'T LOT 1 ALL IN SECTION 32, TOWN 29 NORTH, RANGE 18 WEST, TOWN OF WARREN, ST. CROIX COUNTY, WISCONSIN.

RELOCATION ORDER IH 94, HUDSON - MENOMONIE ROAD, STH 65 INTERCHANGE, ST. CROIX COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT.
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES OR S.F REQUIRED NEW	EXISTING	TOTAL	TLE ACRES	PLE ACRES	HE ACRES
4	JAMES B. & MAUREEN M SCHREIBER	TLE	----	----	----	0 10	----	----
6	LEONARD L. & DIANE P. TRIEBOLD	TLE	----	----	----	0.25	----	----
40	AT&T-WI	RELEASE OF RIGHTS						
41	ST. CROIX ELECTRIC COOP.	RELEASE OF RIGHTS						

ROAD NAME	BASIS OF EXISTING R/W	YEAR	WIDTH
IH 94	PREVIOUS PROJECT I-94-1(210, CSM V.4, P.1054 CSM V.23, P.5530	VARIES	VARIES

PARCEL	UTILITY EASEMENT INFORMATION
4	WISCONSIN TELEPHONE, DOC.306323, BOOK 475, P.62 ST. CROIX COUNTY ELECTRIC COOPERATIVE, DOC.818907 NO VOL. & PAGE LISTED
6	WISCONSIN TELEPHONE, DOC.306323, BOOK 475, P.62 WISCONSIN BELL, DOC. 431477, V.794 P.584 ST. CROIX COUNTY ELECTRIC COOPERATIVE DOC.818907 NO VOL. & PAGE LISTED

CURVE EB1
P.I. = 415+35.48
Y = 337,195.03
X = 553,837.94
DELTA = 4° 49' 08" (RT)
D = 0° 16' 57"
T = 853.26'
L = 1,705.52'
R = 20,277.92'
P.C. = 406+82.22
Y = 337,160.53
X = 552,985.38
P.T. = 423+87.73
Y = 337,157.79
X = 554,690.39

CURVE 42
L = 292.02'
LC = 292.02'
LCB = S 87°51'22" E
R = 23,133.31'

CURVE 42A
L = 277.81'
LC = 277.81'
LCB = N 87°50'36" W
R = 22,803.31'

GN

TOWN OF WARREN

NW-NE SEC.32

SIXTEENTH LINE

EASEMENT PARCELS 4 & 41

GOV'T LOT 1 SEC.32

NOT RECOVERED
USED COUNTY SURVEYOR COORDINATES
Y=338,116.642
X=557,222.288

T 29 N
29 | 28
32 | 33
R 18 W

FOUND 2" I.P.
Y= 338,105.203
X= 554,586.543

P.L. S 0°02'16" W 735.36'

EASEMENT PARCEL 6 (40)

LOT 3 CSM V.23 P.5530

SLOPE INTERCEPTS

TLE-SLOPES

P.L. N 0° 03' 31" W, 908.74'

SECTION LINE

3/4" RBR.

EXIST. R/W

CURVE 42

CURVE EB1
PT 423+87.73

425+00 EB | 430+00 EB | 435+00 EB | 440+00 EB | 445+00 EB

VARIES

IH 94

S 87°29'55" E

QUARTER LINE

1" I.P.
3/4" RBR.
CURVE 42B

CURVE 42A

AT&T-LEGACY
LEVEL 3
WISDOT

LOT 2 CSM V.4 P.1054

SIXTEENTH LINE

P.L. N 0° 03' 31" W 1402.95'

FOUND ALUMINUM CAP
Y=335,522.936
X=557,224.939

SE-NE SEC.32

SW-NE SEC.32

LOT 1 CSM V.4 P.1054

P.L. N 0°02'16" E, 4123.68'

ACCESS EASEMENT

FORMERLY COLBETH DRIVE

T 29 N R 18 W
32

FOUND ALUMINUM CAP
Y= 332,916.009
X= 554,583.114

R/W COURSE TABLE		
RW9 - RW10	S 86°18'56" E	2350.20'
RW10 - TIE4	S 0°03'31" E	160.77'
TIE4 - RW11	S 0°03'31" E	121.25'
RW11 - RW12	N 87°29'33" W	2362.32'
RW2 - TIE5	N 0°02'16" E	122.39'
TIE5 - RW1	N 0°02'16" E	207.76'

PT #	STATION	OFFSET
RW1	422+75.39	-207.61
RW2	422+87.83	122.30
RW9	425+66.26	-209.12
RW10	449+15.96	-160.61
RW11	449+28.56	121.13
RW12	425+66.24	120.88
RW13	425+00.00	120.97
TIE4	449+23.14	0.00
TIE5	422+83.17	0.00
TLE1	424+52.54	130.00
TLE2	428+25.00	130.00
TLE3	428+25.00	120.90
TLE4	424+45.00	-208.81
TLE5	424+45.00	-230.00
TLE6	427+80.00	-230.00
TLE7	427+80.00	-204.71
TLE8	440+50.00	-178.49
TLE9	440+50.00	-187.00
TLE10	444+75.00	-178.00
TLE11	444+75.00	-169.71
TLE35	424+00.00	140.00
TLE36	423+40.00	121.92

PROJECT LOCATION
NOT TO SCALE
Roberts
T29N
SHEET LOCATION
R18W

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS, IN ST. CROIX COUNTY AS SHEET 2 OF 2 OF DOCUMENT NO. 923162 AND FILED IN VOL. 1, PG. 47, OF TPP'S

NOTE: EXISTING ACCESS CONTROL IS REFERENCED TO PREVIOUS PROJECT I-94-1(210

SCALE, FEET
0 100 200

STRAND ASSOCIATES, INC.®
910 WEST WINGRA DRIVE, MADISON, WI 53715
(608) 251-4843

I, HEATHER S. BARTELT, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1020-07-20-4.02 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN HEATHER S BARTELT S-2797 MADISON WI LAND SURVEYOR

(SIGNATURE) Heather S Bartelt DATE 9-30-10
(PRINTED NAME) HEATHER S. BARTELT
(REGISTRATION NUMBER) S-2797

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
(SIGNATURE) _____ DATE _____
(PRINTED NAME) MICHAEL PILLER

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1020-07-20-4.02
AMENDMENT NO:

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN ST CROIX COUNTY, WISCONSIN AT 3 00 PM ON OCTOBER 4, 2010 AS DOCUMENT #923941 AND FILED IN VOL. 1 OF TPP'S, PG. 49

BETH PABST
SIGNATURE OF REGISTER OF DEEDS

FILE NAME : $$....designfile....$$
APPRAISAL PLAT DATE :
PLOT DATE . $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME :
PLOT SCALE : $$.....plotscale.....$$

4.

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES OR S.F. REQUIRED NEW	EXISTING	TOTAL	TLE ACRES	PLE ACRES	HE ACRES
7	311, LLC	FEE,TLE	1.74	----	1.74	0.41	----	----
8	GLEN M WIESE	FEE,TLE	0.11	----	0.11	0.32	----	----
40	AT&T-WI	RELEASE OF RIGHTS						

PT #	STATION	OFFSET
RW10	449+15.96	-160.61
RW11	449+28.56	121.13
RW16	458+20.00	-158.77
RW17	464+25.00	-205.00
RW18	475+44.82	-222.77
RW19	475+62.68	171.39
RW20	473+70.00	168.16
RW21	472+10.00	190.00
RW22	470+00.00	158.96
RW1029	475+00.50	171.40
RW1030	466+37.69	149.95
RW1095	455+00.50	121.19
RW1096	450+00.53	-158.86
TIE2	475+54.91	0.00
TIE4	449+23.14	0.00
TLE12	456+90.00	-158.79
TLE13	464+25.00	-215.00
TLE18	475+44.37	-232.77
TLE19	469+15.00	156.85
TLE20	472+10.00	200.00
TLE21	475+64.55	212.85

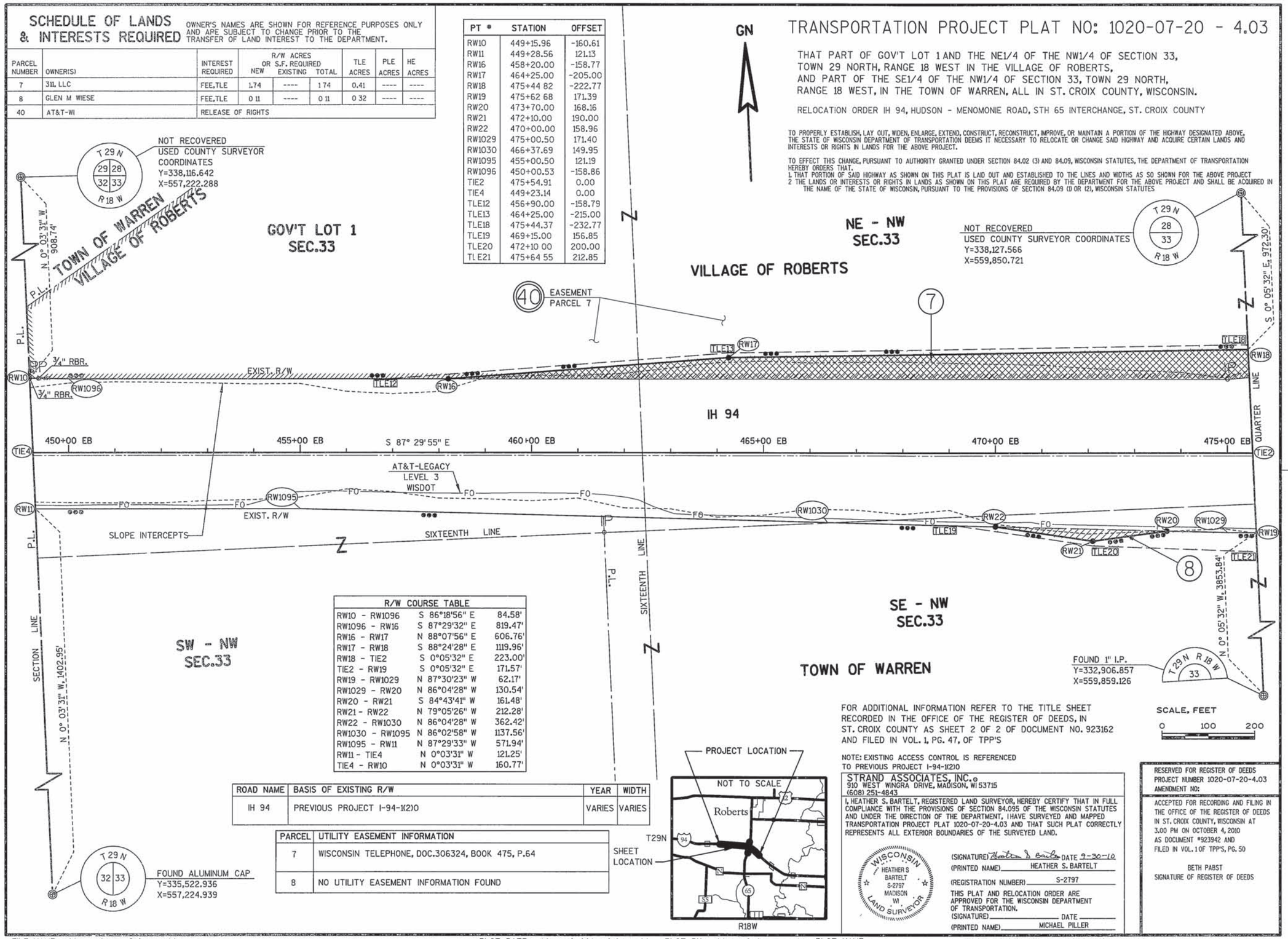
TRANSPORTATION PROJECT PLAT NO: 1020-07-20 - 4.03

THAT PART OF GOV'T LOT 1 AND THE NE1/4 OF THE NW1/4 OF SECTION 33, TOWN 29 NORTH, RANGE 18 WEST IN THE VILLAGE OF ROBERTS, AND PART OF THE SE1/4 OF THE NW1/4 OF SECTION 33, TOWN 29 NORTH, RANGE 18 WEST, IN THE TOWN OF WARREN, ALL IN ST. CROIX COUNTY, WISCONSIN.

RELOCATION ORDER IH 94, HUDSON - MENOMONIE ROAD, STH 65 INTERCHANGE, ST. CROIX COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT,
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES



R/W COURSE TABLE		
RW10 - RW1096	S 86°18'56" E	84.58'
RW1096 - RW16	S 87°29'32" E	819.47'
RW16 - RW17	N 88°07'56" E	606.76'
RW17 - RW18	S 88°24'28" E	1119.96'
RW18 - TIE2	S 0°05'32" E	223.00'
TIE2 - RW19	S 0°05'32" E	171.57'
RW19 - RW1029	N 87°30'23" W	62.17'
RW1029 - RW20	N 86°04'28" W	130.54'
RW20 - RW21	S 84°43'41" W	161.48'
RW21 - RW22	N 79°05'26" W	212.28'
RW22 - RW1030	N 86°04'28" W	362.42'
RW1030 - RW1095	N 86°02'58" W	1137.56'
RW1095 - RW11	N 87°29'33" W	571.94'
RW11 - TIE4	N 0°03'31" W	121.25'
TIE4 - RW10	N 0°03'31" W	160.77'

ROAD NAME	BASIS OF EXISTING R/W	YEAR	WIDTH
IH 94	PREVIOUS PROJECT I-94-1(21)0	VARIES	VARIES

PARCEL	UTILITY EASEMENT INFORMATION
7	WISCONSIN TELEPHONE, DOC.306324, BOOK 475, P.64
8	NO UTILITY EASEMENT INFORMATION FOUND

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS, IN ST. CROIX COUNTY AS SHEET 2 OF 2 OF DOCUMENT NO. 923162 AND FILED IN VOL. 1, PG. 47, OF TPP'S

NOTE: EXISTING ACCESS CONTROL IS REFERENCED TO PREVIOUS PROJECT I-94-1(21)0

SCALE, FEET
0 100 200

STRAND ASSOCIATES, INC.®
910 WEST WINGRA DRIVE, MADISON, WI 53715
(608) 251-4843

I, HEATHER S. BARTELT, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1020-07-20-4.03 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN HEATHER S BARTELT S-2797 MADISON WI LAND SURVEYOR

(SIGNATURE) Heather S Bartelt DATE 9-30-10
(PRINTED NAME) HEATHER S. BARTELT
(REGISTRATION NUMBER) S-2797

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
(SIGNATURE) _____ DATE _____
(PRINTED NAME) MICHAEL PILLER

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1020-07-20-4.03
AMENDMENT NO:

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN ST. CROIX COUNTY, WISCONSIN AT 3.00 PM ON OCTOBER 4, 2010 AS DOCUMENT #923942 AND FILED IN VOL. 1 OF TPP'S, PG. 50

BETH PABST
SIGNATURE OF REGISTER OF DEEDS

FILE NAME : $$... designfile....$$
APPRAISAL PLAT DATE :
PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME :
PLOT SCALE : $$.....plotscale.....$$

TRANSPORTATION PROJECT PLAT NO: 1020-07-20 - 4.04

THAT PART OF THE NW1/4 OF THE NE1/4, OF SECTION 33, TOWN 29 NORTH, RANGE 18 WEST, IN THE VILLAGE OF ROBERTS,
AND PART OF THE SW1/4 OF THE NE1/4 AND PART OF THE SE1/4 OF THE NE1/4 OF SECTION 33, TOWN 29 NORTH, RANGE 18 WEST, IN THE TOWN OF WARREN,
ALL IN ST. CROIX COUNTY, WISCONSIN.

RELOCATION ORDER IH 94, HUDSON - MENOMONIE ROAD, STH 65 INTERCHANGE, ST. CROIX COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84 02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT-
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES OR S.F. REQUIRED NEW	EXISTING	TOTAL	TLE ACRES	PLE ACRES	HE ACRES
7	311, LLC.	FEE,TLE	1.17	----	1.17	0.23	----	----
8	GLEN M WIESE	FEE,TLE	1.25	----	1.25	0.58	----	----
40	AT&T-WI	RELEASE OF RIGHTS						

CURVE EB2
P.I. = 500+22.61
Y = 336,824.56
X = 562,317.99
DELTA = 39° 31' 04" (RT)
D = 1° 14' 53"
T = 1,649.02'
L = 3,166.25'
R = 4,590.66'
P.C. = 483+73.59
P.T. = 515+39.84

T 29 N, 28, 33, R 18 W

NOT RECOVERED
USED COUNTY SURVEYOR COORDINATES
Y=338,127.566
X=559,850.721

S 0° 05' 32" E, 972.30'

VILLAGE OF ROBERTS

NW - NE SEC. 33

NE - NE SEC. 33

SIXTEENTH LINE

EASEMENT PARCEL 7

VILLAGE OF ROBERTS
TOWN OF WARREN

3/4" RBR.

EXIST. R/W

IH 94

VARIES

CURVE EB2

480+00 EB
485+00 EB
490+00 EB
495+00 EB

S 87° 29' 55" E

PC 483+73.59

SIXTEENTH LINE

AT&T-LEGACY
LEVEL 3
WISDOT

1" I.P.

EXIST. R/W

SLOPE INTERCEPTS

SW - NE SEC. 33

TOWN OF WARREN

SE - NE SEC. 33

N 0° 05' 32" W, 3853.84'

QUARTER LINE

T29N R18W, 33

FOUND 1" I.P.
Y=332,906.857
X=559,859.126

R/W COURSE TABLE		
RW18 - RW23	S 88°24'28" E	455.24'
RW23 - RW24	N 74°48'04" E	246.68'
RW24 - RW25	S 83°15'29" E	209.77'
RW25 - RW26	S 43°07'40" E	72.59'
RW26 - RW2625	N 87°53'57" E	660.34'
RW2625 - TIE7	S 3°55'52" E	368.21'
TIE7 - RW27	S 12°48'57" W	434.11'
RW27 - RW28	N 24°19'02" W	136.83'
RW28 - RW29	N 41°24'22" W	131.53'
RW29 - RW30	N 76°40'19" W	342.66'
RW30 - RW31	S 85°11'22" W	431.82'
RW31 - RW32	N 76°00'48" W	520.42'
RW32 - RW19	N 87°30'23" W	127.32'
RW19 - TIE2	N 0°05'32" W	171.57'
TIE2 - RW18	N 0°05'32" W	223.00'

ROAD NAME	BASIS OF EXISTING R/W	YEAR	WIDTH
IH 94	PREVIOUS PROJECT 1-94-1(2)0	VARIES	VARIES

PARCEL	UTILITY EASEMENT INFORMATION
7	WISCONSIN TELEPHONE, DOC.306324, BOOK 475, P.64, WISCONSIN TELEPHONE, DOC.308756 V.480 P.541
8	NO UTILITY EASEMENT INFORMATION FOUND

PROJECT LOCATION
NOT TO SCALE
SHEET LOCATION
T29N
R18W
Roberts

PT #	STATION	OFFSET
RW18	475+44.82	-222.77
RW19	475+62.68	171.39
RW23	480+00.00	-230.00
RW24	482+35.00	-305.00
RW25	484+40.00	-290.00
RW26	484+90.00	-240.28
RW27	492+00.00	434.11
RW28	491+11.12	324.22
RW29	490+00.00	244.00
RW30	486+40.83	212.62
RW31	482+00.00	275.00
RW32	476+90.00	171.38
RW2625	491+01.48	-353.74
TIE2	475+54.91	0.00
TIE7	492+00.00	-0.00
TLE14	480+00.00	-240.00
TLE15	482+35.00	-315.00
TLE16	484+45.00	-300.00
TLE17	485+10.00	-242.56
TLE18	475+44.37	-232.77
TLE21	475+64.55	212.85
TLE22	479+00.00	225.00
TLE23	482+00.00	285.00
TLE24	486+25.00	225.00
TLE25	490+03.29	259.18
TLE26	491+32.79	351.70

GN

SCALE, FEET
0 100 200

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS, IN ST. CROIX COUNTY AS SHEET 2 OF 2 OF DOCUMENT NO. 923162 AND FILED IN VOL. 1, PG. 47, OF TPP'S

NOTE: EXISTING ACCESS CONTROL IS REFERENCED TO PREVIOUS PROJECT 1-94-1(2)0

STRAND ASSOCIATES, INC.®
910 WEST WINGRA DRIVE, MADISON, WI 53715
(608) 251-4843

I, HEATHER S. BARTELT, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1020-07-20-4.04 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND

WISCONSIN HEATHER S BARTELT S-2797 MADISON WI LAND SURVEYOR

(SIGNATURE) _____ DATE 9-30-10
(PRINTED NAME) HEATHER S. BARTELT
(REGISTRATION NUMBER) S-2797

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
(SIGNATURE) _____ DATE _____
(PRINTED NAME) MICHAEL PILLER

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1020-07-20-4.04
AMENDMENT NO:

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN ST. CROIX COUNTY, WISCONSIN AT 3.00 PM ON OCTOBER 4, 2010 AS DOCUMENT #923943 AND FILED IN VOL 1 OF TPP'S, PG. 51

BETH PABST
SIGNATURE OF REGISTER OF DEEDS

FILE NAME : $$....designfile....$$
APPRAISAL PLAT DATE :
PLOT DATE . $$...plottingdate...$$
$$...plotuser...$$ PLOT NAME :
PLOT SCALE : $$.....plotscale.....$$

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES OR S.F REQUIRED NEW	EXISTING	TOTAL	TLE ACRES	PLE ACRES	HE ACRES
9	BLUE JAY PROPERTIES, LLC	TLE	----	----	----	0 06	----	----
11	CRANE 1 HOLDINGS, LLC	FEE	1 52	----	1 52	----	----	----
40	AT&T-WI	RELEASE OF RIGHTS						
41	ST. CROIX ELECTRIC COOPERATIVE	RELEASE OF RIGHTS						

PARCEL	UTILITY EASEMENT INFORMATION
9	WISCONSIN TELEPHONE, DOC.306324, BOOK 475, P.64, WISCONSIN TELEPHONE, DOC.308756 V.480 P.541 WISCONSIN TELEPHONE. DOC.394002, BOOK 690 P.139 ST. CROIX COUNTY ELECTRIC COOPERATIVE, DOC.394325, V.691 P.141
11	WISCONSIN BELL, DOC.652768, V.1692 P.105

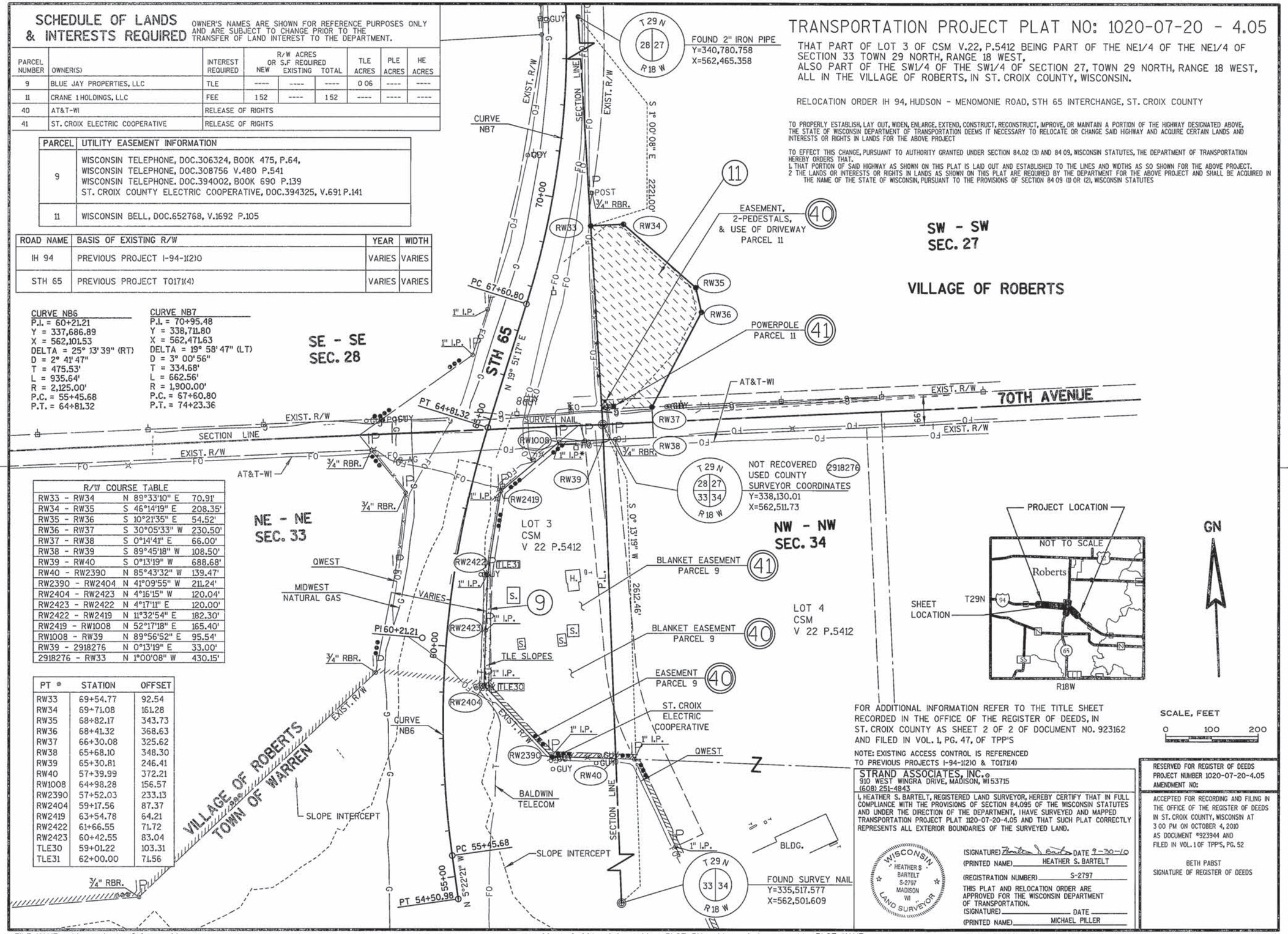
ROAD NAME	BASIS OF EXISTING R/W	YEAR	WIDTH
IH 94	PREVIOUS PROJECT I-94-1(21)0	VARIES	VARIES
STH 65	PREVIOUS PROJECT T0171(4)	VARIES	VARIES

CURVE NB6
P.I. = 60+21.21
Y = 337,686.89
X = 562,101.53
DELTA = 25° 13' 39" (RT)
D = 2° 41' 47"
T = 475.53'
L = 935.64'
R = 2,125.00'
P.C. = 55+45.68
P.T. = 64+81.32

CURVE NB7
P.I. = 70+95.48
Y = 338,711.80
X = 562,471.63
DELTA = 19° 58' 47" (LT)
D = 3° 00' 56"
T = 334.68'
L = 662.56'
R = 1,900.00'
P.C. = 67+60.80
P.T. = 74+23.36

R/W COURSE TABLE		
RW33 - RW34	N 89°33'10" E	70.91'
RW34 - RW35	S 46°14'19" E	208.35'
RW35 - RW36	S 10°21'35" E	54.52'
RW36 - RW37	S 30°05'33" W	230.50'
RW37 - RW38	S 0°14'41" E	66.00'
RW38 - RW39	S 89°45'18" W	108.50'
RW39 - RW40	S 0°13'19" W	688.68'
RW40 - RW2390	N 85°43'32" W	139.47'
RW2390 - RW2404	N 41°09'55" W	211.24'
RW2404 - RW2423	N 4°16'15" W	120.04'
RW2423 - RW2422	N 4°17'11" E	120.00'
RW2422 - RW2419	N 11°32'54" E	182.30'
RW2419 - RW1008	N 52°17'18" E	165.40'
RW1008 - RW39	N 89°56'52" E	95.54'
RW39 - 2918276	N 0°13'19" E	33.00'
2918276 - RW33	N 1°00'08" W	430.15'

PT #	STATION	OFFSET
RW33	69+54.77	92.54
RW34	69+71.08	161.28
RW35	68+82.17	343.73
RW36	68+41.32	368.63
RW37	66+30.08	325.62
RW38	65+68.10	348.30
RW39	65+30.81	246.41
RW40	57+39.99	372.21
RW1008	64+98.28	156.57
RW2390	57+52.03	233.13
RW2404	59+17.56	87.37
RW2419	63+54.78	64.21
RW2422	61+66.55	71.72
RW2423	60+42.55	83.04
TLE30	59+01.22	103.31
TLE31	62+00.00	71.56



TRANSPORTATION PROJECT PLAT NO: 1020-07-20 - 4.05

THAT PART OF LOT 3 OF CSM V.22, P.5412 BEING PART OF THE NE1/4 OF THE NE1/4 OF SECTION 33 TOWN 29 NORTH, RANGE 18 WEST, ALSO PART OF THE SW1/4 OF THE SW1/4 OF SECTION 27, TOWN 29 NORTH, RANGE 18 WEST, ALL IN THE VILLAGE OF ROBERTS, IN ST. CROIX COUNTY, WISCONSIN.

RELOCATION ORDER IH 94, HUDSON - MENOMONIE ROAD, STH 65 INTERCHANGE, ST. CROIX COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84 09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT,
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84 09 (1) OR (2), WISCONSIN STATUTES

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS, IN ST. CROIX COUNTY AS SHEET 2 OF 2 OF DOCUMENT NO. 923162 AND FILED IN VOL. 1, PG. 47, OF TPP'S

NOTE: EXISTING ACCESS CONTROL IS REFERENCED TO PREVIOUS PROJECTS I-94-1(21)0 & T0171(4)

STRAND ASSOCIATES, INC.®
910 WEST WINGRA DRIVE, MADISON, WI 53715
(608) 251-4843

I, HEATHER S. BARTELT, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1120-07-20-4.05 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN HEATHER S BARTELT S-2797 MADISON WI LAND SURVEYOR

(SIGNATURE) _____ DATE 9-30-10
(PRINTED NAME) HEATHER S. BARTELT
(REGISTRATION NUMBER) S-2797

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
(SIGNATURE) _____ DATE _____
(PRINTED NAME) MICHAEL PILLER

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1020-07-20-4.05
AMENDMENT NO:

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN ST. CROIX COUNTY, WISCONSIN AT 3 00 PM ON OCTOBER 4, 2010 AS DOCUMENT #923944 AND FILED IN VOL. 1 OF TPP'S, PG. 52

BETH PABST
SIGNATURE OF REGISTER OF DEEDS

TRANSPORTATION PROJECT PLAT NO: 1020-07-20 - 4.06

THAT PART OF THE SW1/4 OF THE NW1/4 OF SECTION 34, TOWN 29 NORTH, RANGE 18 WEST, VILLAGE OF ROBERTS,
AND THAT PART OF THE NE1/4 OF THE SE1/4 OF SECTION 33, TOWN 29 NORTH, RANGE 18 WEST TOWN OF WARREN, ALL IN ST. CROIX COUNTY, WISCONSIN.

RELOCATION ORDER IH 94, HUDSON - MENOMONIE ROAD, STH 65 INTERCHANGE — ST. CROIX COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES OR S F REQUIRED NEW	EXISTING	TOTAL	TLE ACRES	PLE ACRES	HE ACRES
8	GLEN M. WIESE	FEE	0.08	----	0.08	----	----	----
12	NATIONWIDE LIMITED PARTNERSHIP	TLE	----	----	----	0.05	----	----
40	AT&T-WI	RELEASE OF RIGHTS						

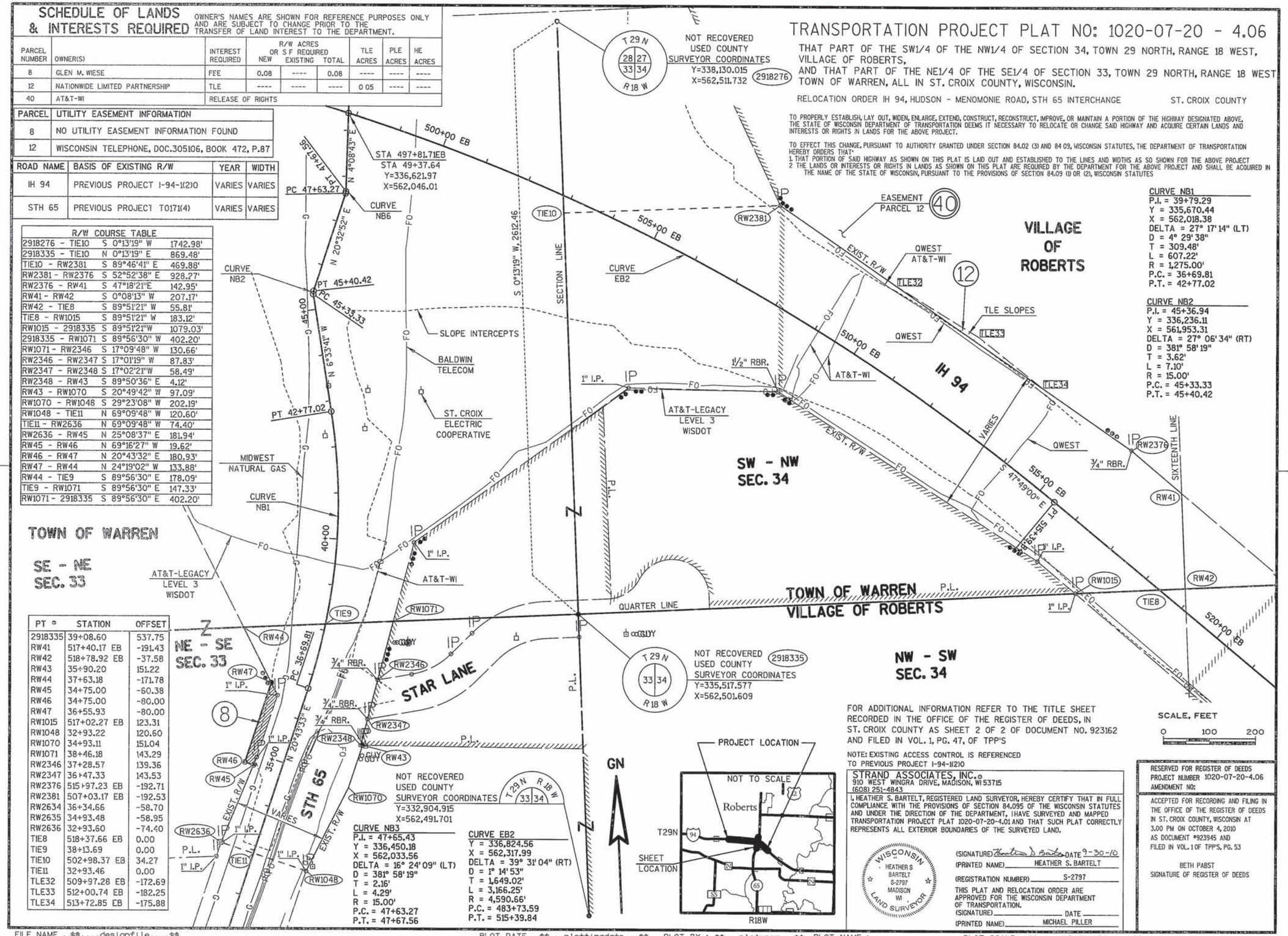
PARCEL	UTILITY EASEMENT INFORMATION
8	NO UTILITY EASEMENT INFORMATION FOUND
12	WISCONSIN TELEPHONE, DOC.305106, BOOK 472, P.87

ROAD NAME	BASIS OF EXISTING R/W	YEAR	WIDTH
IH 94	PREVIOUS PROJECT I-94-1(2)0	VARIES	VARIES
STH 65	PREVIOUS PROJECT T0171(4)	VARIES	VARIES

R/W COURSE TABLE

2918276 - TIE10	S 0°13'19" W	1742.98'
2918335 - TIE10	N 0°13'19" E	869.48'
TIE10 - RW2381	S 89°46'41" E	469.88'
RW2381 - RW2376	S 52°52'38" E	928.27'
RW2376 - RW41	S 47°18'21"E	142.95'
RW41 - RW42	S 0°08'13" W	207.17'
RW42 - TIE8	S 89°51'21" W	55.81'
TIE8 - RW1015	S 89°51'21" W	183.12'
RW1015 - 2918335	S 89°51'21"W	1079.03'
2918335 - RW1071	S 89°56'30" W	402.20'
RW1071 - RW2346	S 17°09'48" W	130.66'
RW2346 - RW2347	S 17°01'19" W	87.83'
RW2347 - RW2348	S 17°02'21"W	58.49'
RW2348 - RW43	S 89°50'36" E	4.12'
RW43 - RW1070	S 20°49'42" W	97.09'
RW1070 - RW1048	S 29°23'08" W	202.19'
RW1048 - TIE11	N 69°09'48" W	120.60'
TIE11 - RW2636	N 69°09'48" W	74.40'
RW2636 - RW45	N 25°08'37" E	181.94'
RW45 - RW46	N 69°16'27" W	19.62'
RW46 - RW47	N 20°43'32" E	180.93'
RW47 - RW44	N 24°19'02" W	133.88'
RW44 - TIE9	S 89°56'30" E	178.09'
TIE9 - RW1071	S 89°56'30" E	147.33'
RW1071 - 2918335	S 89°56'30" E	402.20'

PT #	STATION	OFFSET
2918335	39+08.60	537.75
RW41	517+40.17 EB	-191.43
RW42	518+78.92 EB	-37.58
RW43	35+90.20	151.22
RW44	37+63.18	-171.78
RW45	34+75.00	-60.38
RW46	34+75.00	-80.00
RW47	36+55.93	-80.00
RW1015	517+02.27 EB	123.31
RW1048	32+93.22	120.60
RW1070	34+93.11	151.04
RW1071	38+46.18	143.29
RW2346	37+28.57	139.36
RW2347	36+47.33	143.53
RW2376	515+97.23 EB	-192.71
RW2381	507+03.17 EB	-192.53
RW2634	36+34.66	-58.70
RW2635	34+93.48	-58.95
RW2636	32+93.60	-74.40
TIE8	518+37.66 EB	0.00
TIE9	38+13.69	0.00
TIE10	502+98.37 EB	34.27
TIE11	32+93.46	0.00
TLE32	509+97.28 EB	-172.69
TLE33	512+00.74 EB	-182.25
TLE34	513+72.85 EB	-175.88



FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS, IN ST. CROIX COUNTY AS SHEET 2 OF 2 OF DOCUMENT NO. 923162 AND FILED IN VOL. 1, PG. 47, OF TPP'S

NOTE: EXISTING ACCESS CONTROL IS REFERENCED TO PREVIOUS PROJECT I-94-1(2)0

STRAND ASSOCIATES, INC.®
910 WEST WINGRA DRIVE, MADISON, WI 53715
(608) 251-4843

I, HEATHER S. BARTELT, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1020-07-20-4.01 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN HEATHER S BARTELT S-2797 MADISON WI LAND SURVEYOR

(SIGNATURE) _____ DATE 9-30-10
(PRINTED NAME) HEATHER S. BARTELT
(REGISTRATION NUMBER) S-2797

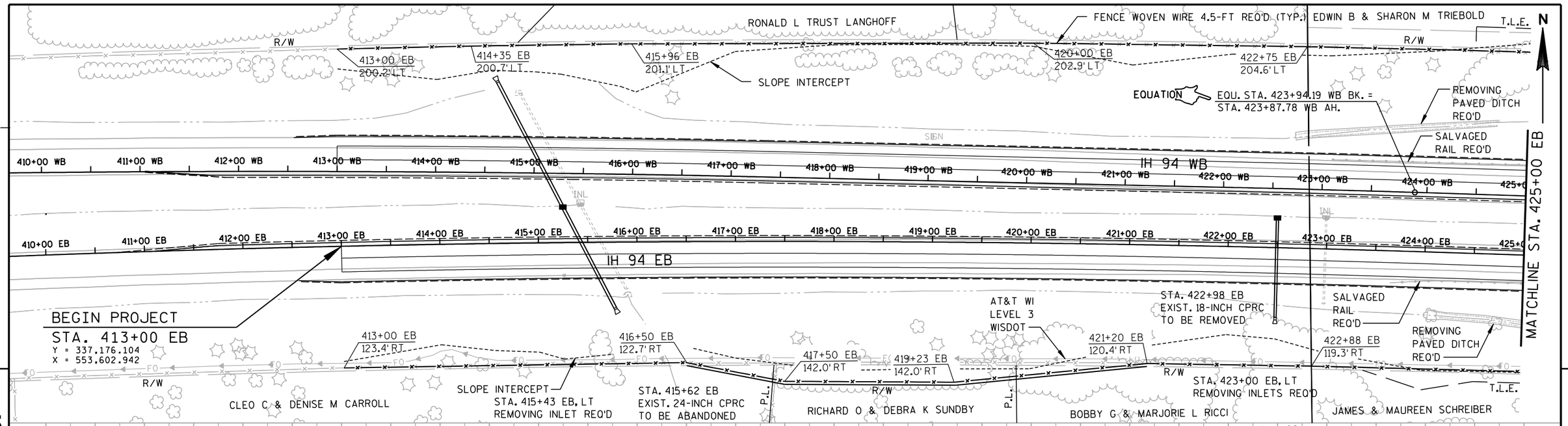
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
(SIGNATURE) _____ DATE _____
(PRINTED NAME) MICHAEL PILLER

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1020-07-20-4.06
AMENDMENT NO:

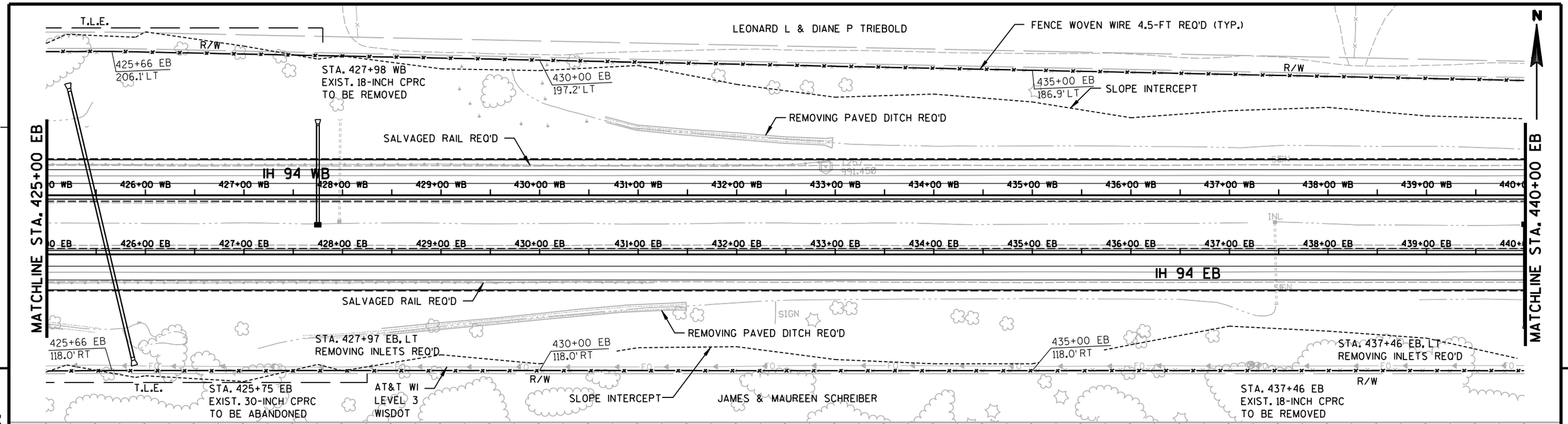
ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN ST. CROIX COUNTY, WISCONSIN AT 3:00 PM ON OCTOBER 4, 2010 AS DOCUMENT #923945 AND FILED IN VOL. 1 OF TPP'S, PG. 53

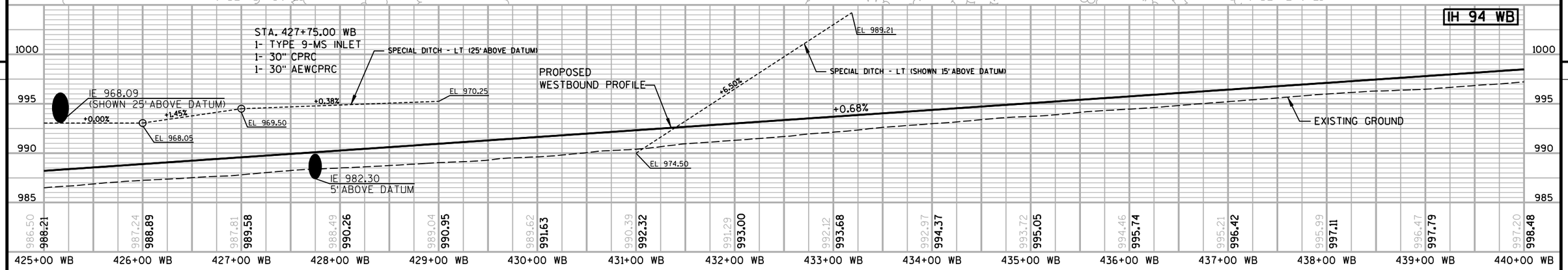
BETH PABST
SIGNATURE OF REGISTER OF DEEDS

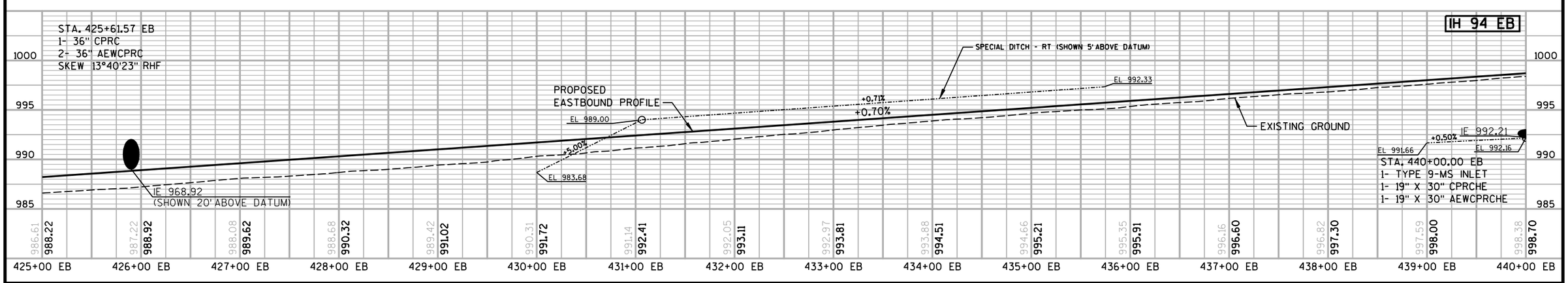
FILE NAME . $$....designfile....$$
APPRAISAL PLAT DATE :
PLOT DATE . $$...plottingdate...$$ PLOT BY : $$...plotuser. $$ PLOT NAME :
PLOT SCALE : $$.... plotscale.....$$



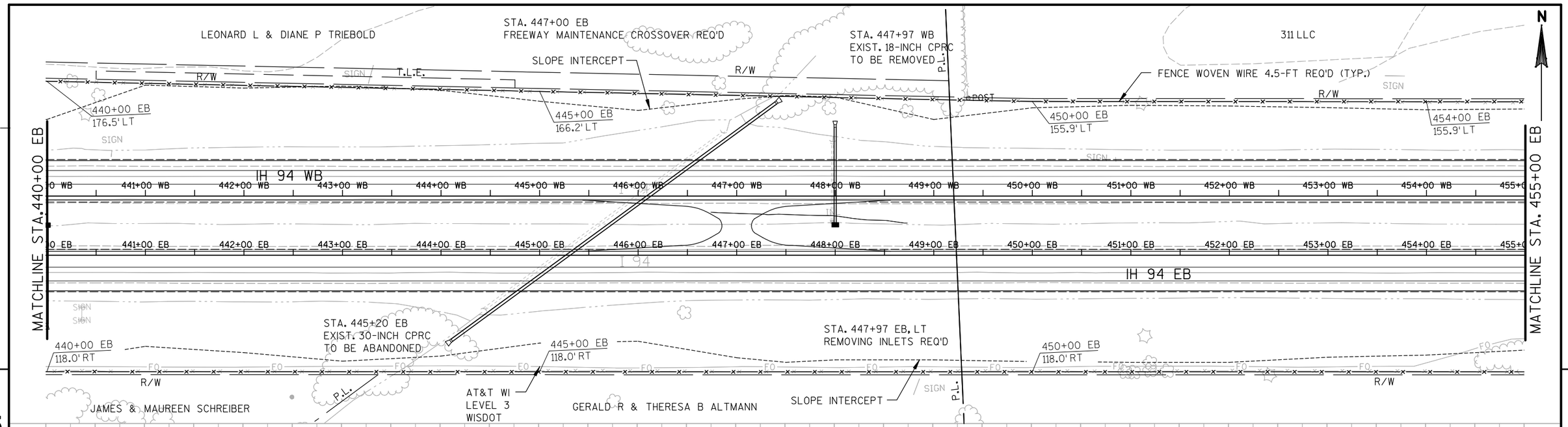
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PLAN AND PROFILE	SHEET 353 E

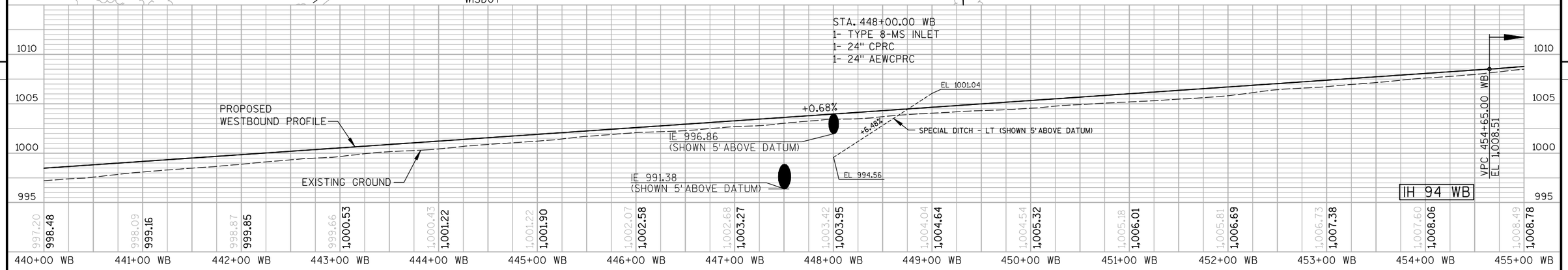


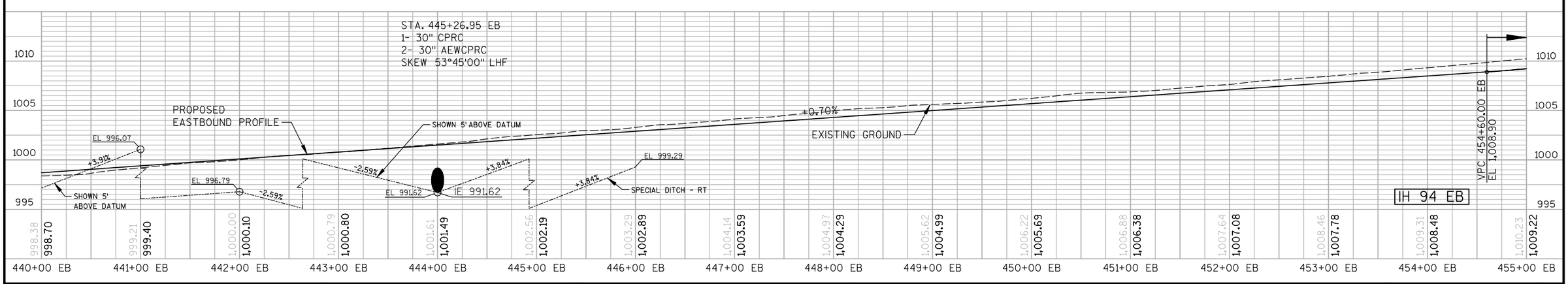




PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PLAN AND PROFILE	SHEET 354 E







PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PLAN AND PROFILE	SHEET 355	E

STA. 458+96 WB
EXIST. 18-INCH CPRC
TO BE REMOVED
REMOVING INLETS REQ'D

311 LLC

STA. 467+00 WB
EXIST. 18-INCH CPRC
TO BE REMOVED
REMOVING INLETS REQ'D

N

FENCE WOVEN WIRE 4.5-FT REQ'D (TYP.)

T.L.E.

R/W

SLOPE INTERCEPT

464+25 EB
202.0' LT

R/W

458+20 EB
155.8' LT

SIGN

SALVAGED RAIL REQ'D

SIGN

IH 94 WB

MATCHLINE STA. 455+00 EB

5

0 WB | 456+00 WB | 457+00 WB | 458+00 WB | 459+00 WB | 460+00 WB | 461+00 WB | 462+00 WB | 463+00 WB | 464+00 WB | 465+00 WB | 466+00 WB | 467+00 WB | 468+00 WB | 469+00 WB | 470+0

IN

IN

0 EB | 456+00 EB | 457+00 EB | 458+00 EB | 459+00 EB | 460+00 EB | 461+00 EB | 462+00 EB | 463+00 EB | 464+00 EB | 465+00 EB | 466+00 EB | 467+00 EB | 468+00 EB | 469+00 EB | 470+0

I 94

IH 94 EB

SALVAGED RAIL REQ'D

MATCHLINE STA. 470+00 EB

5

REMOVING PAVED DITCH REQ'D

455+00 EB
118.2' RT

R/W

FO

460+00 EB
130.8' RT

465+00 EB
143.5' RT

LYNN W & DEANNA F BOURDAGHS

AT&T WI
LEVEL 3
WISDOT

SLOPE INTERCEPT

GLEN M WIESE

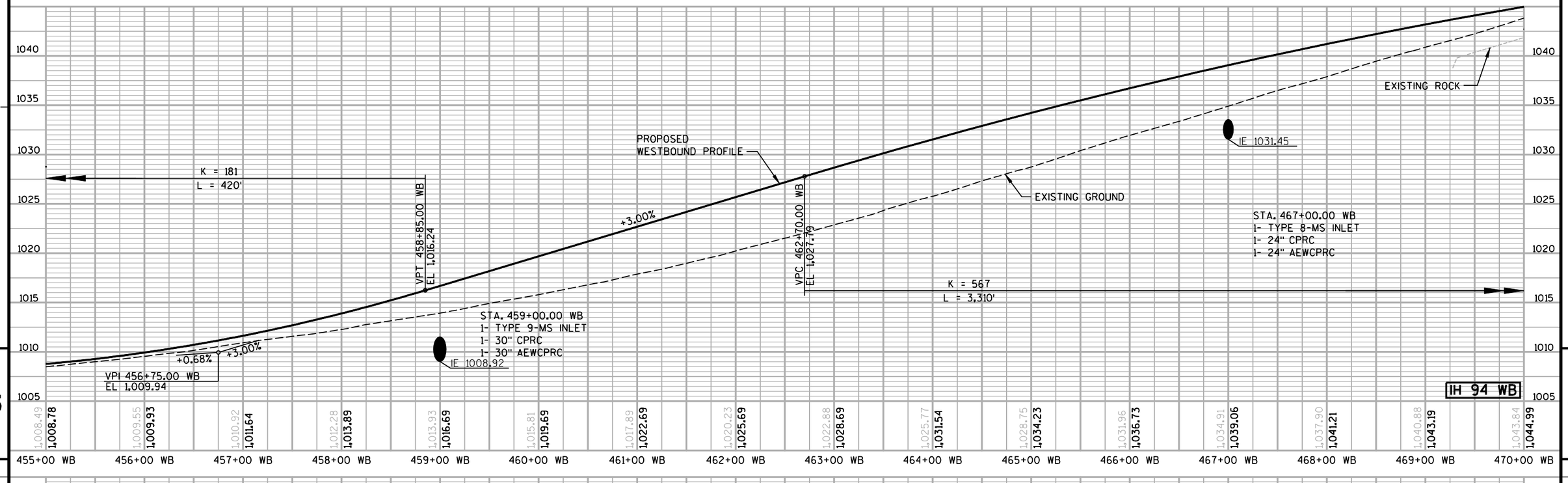
R/W

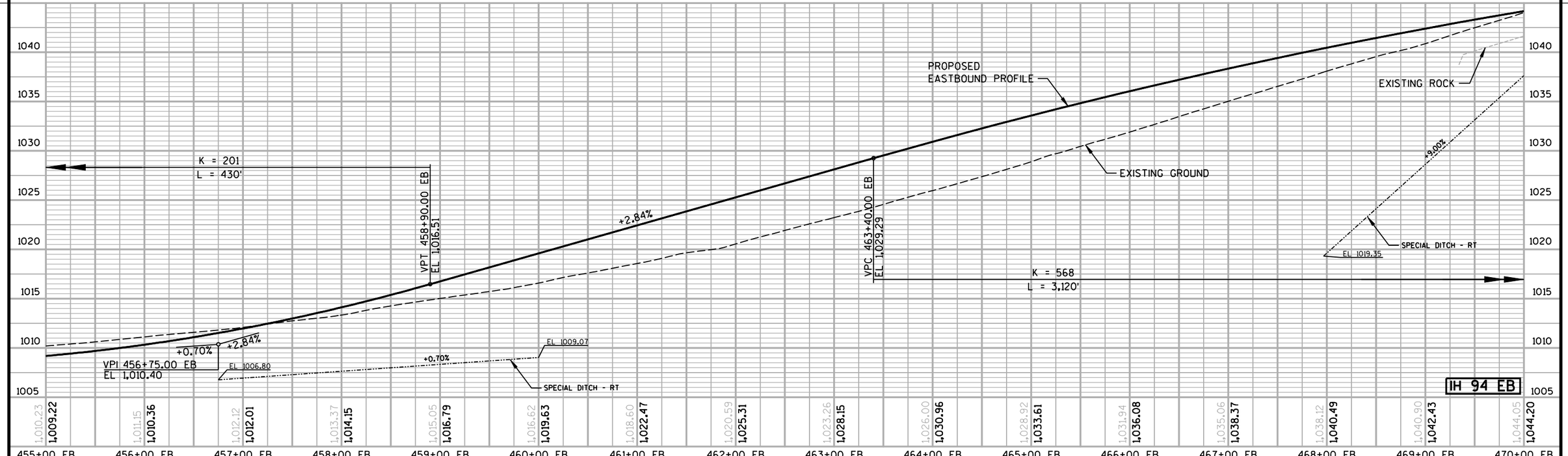
T.L.E.

P.I.

SEE NEXT SHEET FOR PROFILE VIEW

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PLAN	SHEET 356	E





PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PROFILE	SHEET 357	E

311 LLC

FENCE WOVEN WIRE 4.5-FT REQ'D (TYP.)

470+00 EB
211.1' LT

475+00 EB
219.0' LT

480+00 EB
227.0' LT

482+35 EB
302.0' LT

484+40 EB
287.0' LT

484+90 EB
237.2' LT

T.L.E.

R/W

POST

REMOVING PAVED DITCH REQ'D

SALVAGED RAIL REQ'D

IH 94 WB

IH 94 EB

MATCHLINE STA. 470+00 EB

MATCHLINE STA. 485+00 EB

5

5

470+00 EB
156.0' RT

472+10 EB
187.0' RT

473+70 EB
165.1' RT

475+00 EB
168.4' RT

476+90 EB
168.4' RT

482+00 EB
272.0' RT

AT&T WI
LEVEL 3
WISDOT

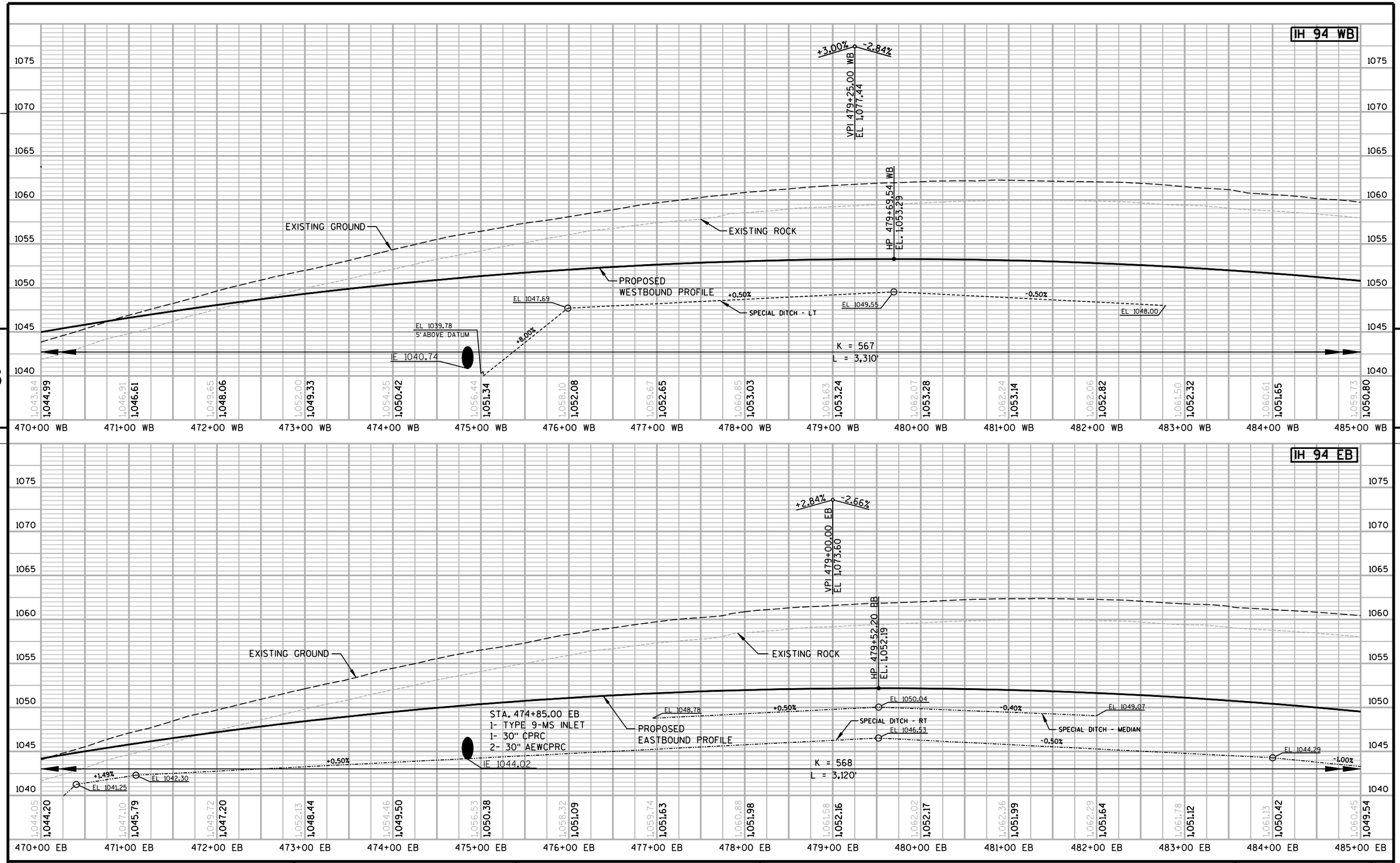
SLOPE INTERCEPT (TYP.)

STA. 475+01 EB
EXIST. 30-INCH CPRC
TO BE REMOVED
REMOVING INLETS REQ'D

GLEN M WIESE

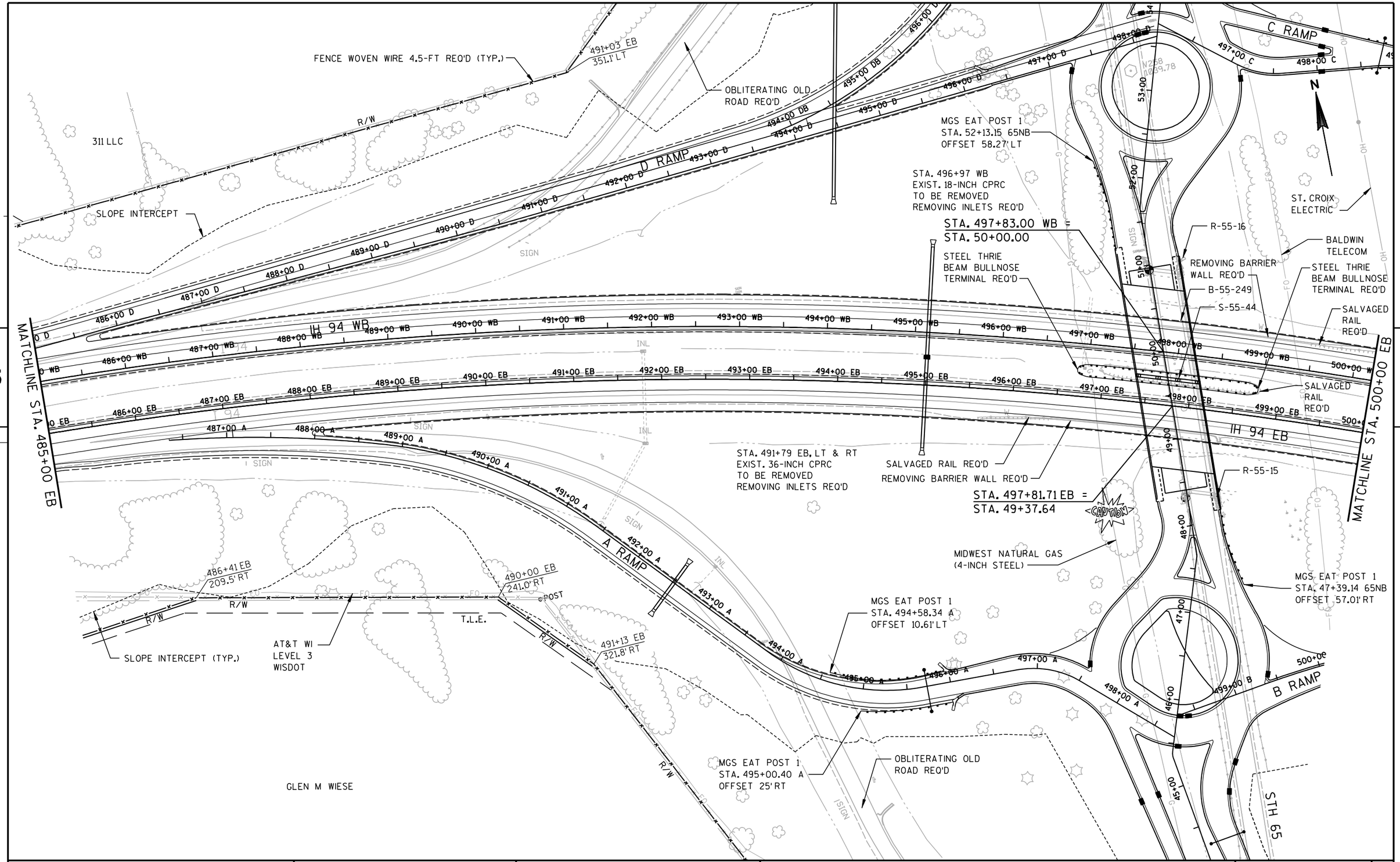
SEE NEXT SHEET FOR PROFILE VIEW

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PLAN	SHEET 358	E



PROJECT NO: 1020-04-74	HWY: IH 94	COUNTY: ST. CROIX	PROFILE	SHEET	E

FILE NAME : s:\mad\1000--1099\1089\199\Micros\Plan\050107_pp.dgn PLOT DATE : 1/4/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 46



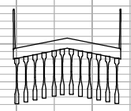
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PLAN	SHEET 360	E

IH 94 WB

EXISTING ROCK

EXISTING GROUND

STA. 497+83.00 WB
STRUCTURE B-55-249 REQ'D
2 SPAN 36" W PRESTRESSED GIRDER



PROPOSED
WESTBOUND PROFILE

-2.84%

VPC 497+32.50 WB
EL 1,026.06

K = 567
L = 3,310'

IE 1020.14

VPT 495+80.00 WB
EL 1,030.40

1050	1045	1040	1035	1030	1025	1020	1015
1,059.73	1,058.32	1,056.61	1,054.76	1,052.34	1,049.83	1,046.98	1,043.89
1,050.80	1,049.78	1,048.58	1,047.20	1,045.65	1,043.92	1,042.01	1,039.92
485+00 WB	486+00 WB	487+00 WB	488+00 WB	489+00 WB	490+00 WB	491+00 WB	492+00 WB

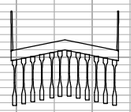
1050	1045	1040	1035	1030	1025	1020	1015
1,040.76	1,037.31	1,033.65	1,030.06	1,027.13	1,024.87	1,023.13	1,021.97
1,037.66	1,035.23	1,032.61	1,029.83	1,026.98	1,024.22	1,021.79	1,019.70
493+00 WB	494+00 WB	495+00 WB	496+00 WB	497+00 WB	498+00 WB	499+00 WB	500+00 WB

IH 94 EB

EXISTING ROCK

EXISTING GROUND

STA. 497+81.71 EB
STRUCTURE B-55-249 REQ'D
2 SPAN 36" W PRESTRESSED GIRDER



STA. 495+00.00 EB
1- TYPE 9-MS INLET
1- 36" CPRC
2- 36" AEWCPRC

-1.00%

EL 1041.79

SPECIAL DITCH - RT

PROPOSED
EASTBOUND PROFILE

EL 1030.94

-5.04%

-2.66%

VPT 494+60.00 EB
EL 1032.16

VPC 497+55.00 EB
EL 1,024.32

SPECIAL DITCH - RT

+0.50%

EL 1020.82

EL 1020.87

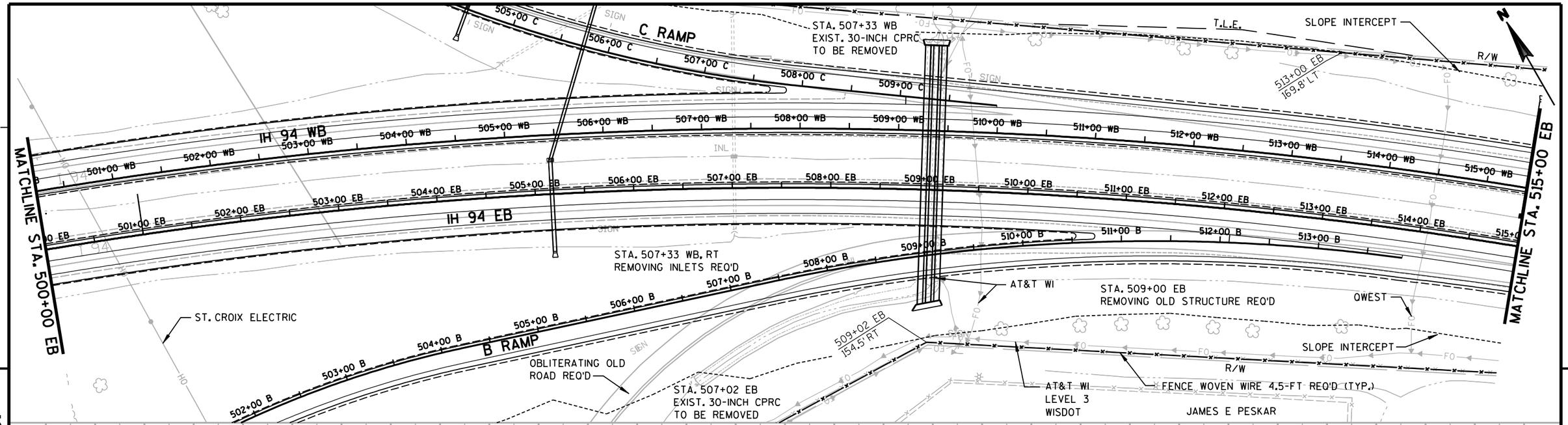
EL 1021.87

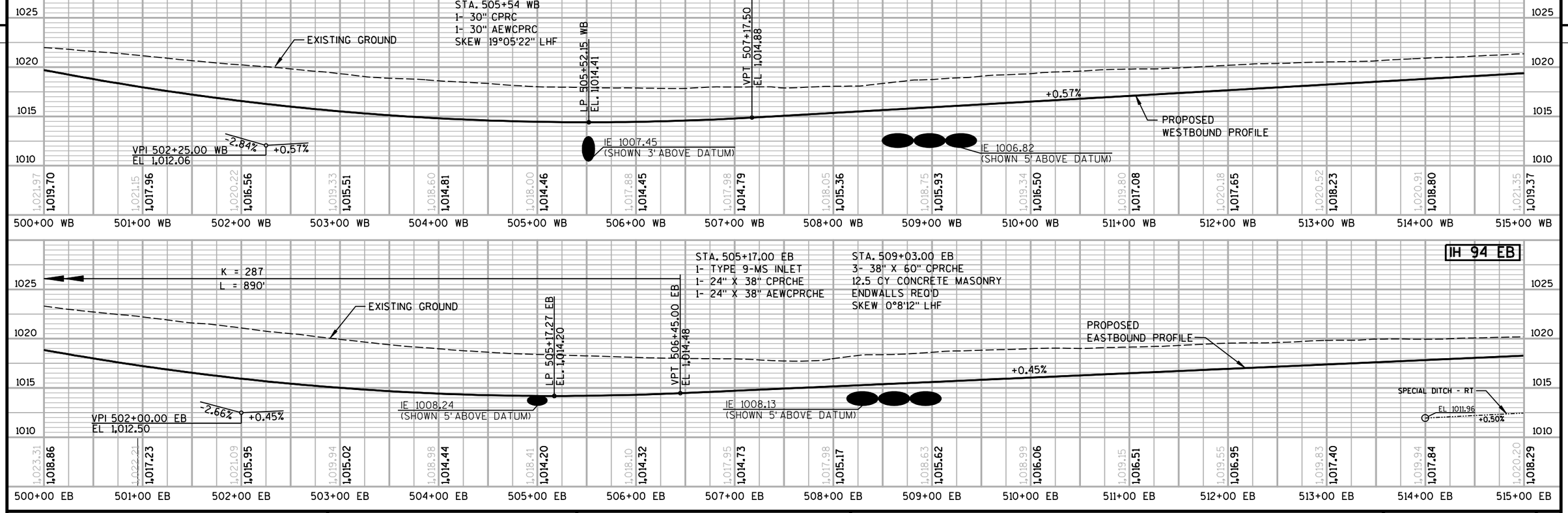
K = 568
L = 3,120'

1050	1045	1040	1035	1030	1025	1020	1015
1,060.45	1,059.09	1,057.46	1,055.51	1,053.34	1,050.52	1,047.75	1,044.72
1,049.54	1,048.49	1,047.26	1,045.85	1,044.27	1,042.51	1,040.58	1,038.47
485+00 EB	486+00 EB	487+00 EB	488+00 EB	489+00 EB	490+00 EB	491+00 EB	492+00 EB

1050	1045	1040	1035	1030	1025	1020	1015
1,041.74	1,038.53	1,035.30	1,031.96	1,029.07	1,026.71	1,024.72	1,023.31
1,036.18	1,033.72	1,031.10	1,028.44	1,025.78	1,023.16	1,020.84	1,018.86
493+00 EB	494+00 EB	495+00 EB	496+00 EB	497+00 EB	498+00 EB	499+00 EB	500+00 EB

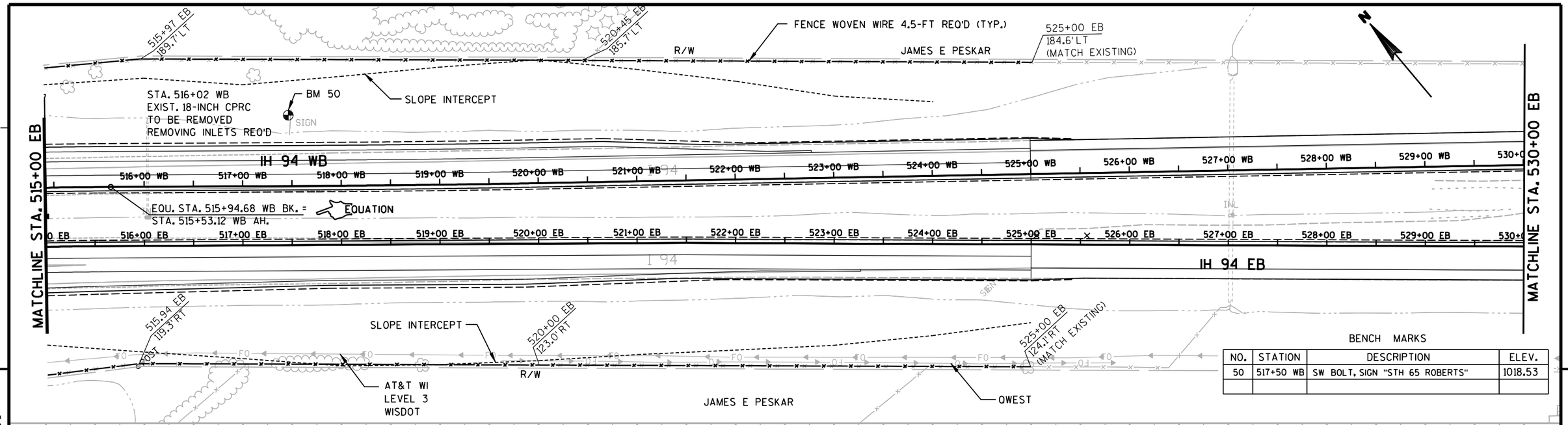
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PROFILE	SHEET 361	E





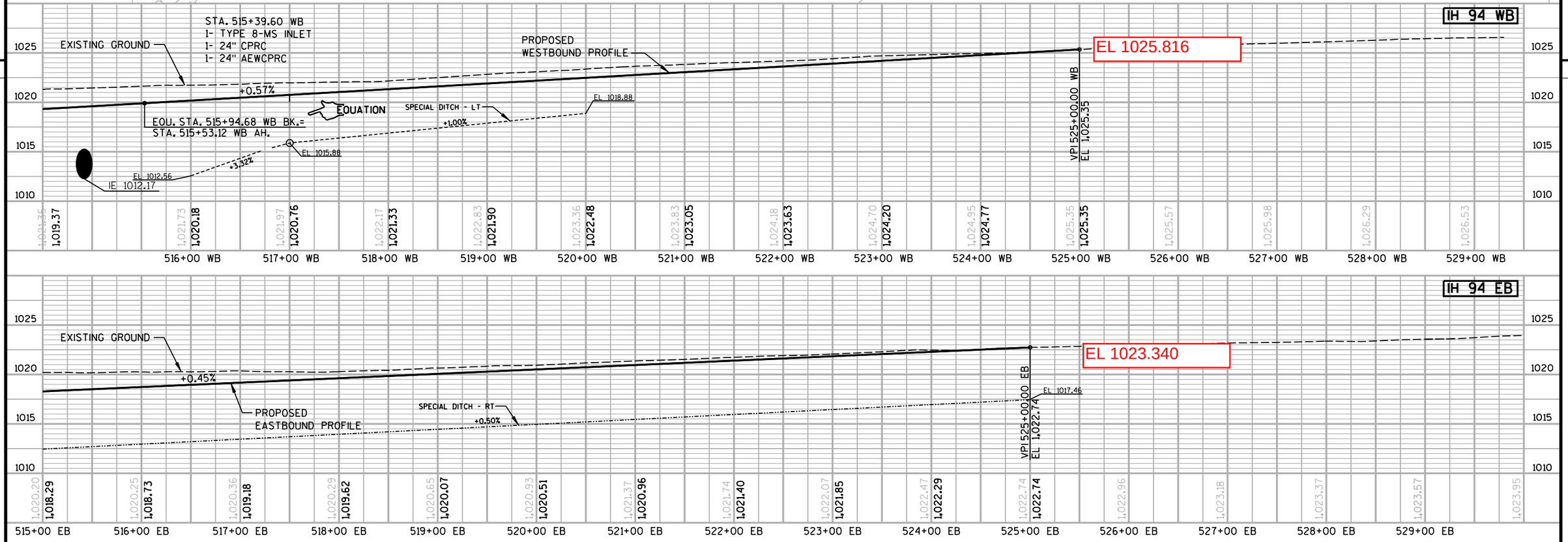
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PLAN AND PROFILE	SHEET E

FILE NAME : s:\mad\1000--1099\1089\199\Micros\Plan\050110_pp.dgn PLOT DATE : 1/4/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 46



BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
50	517+50 WB	SW BOLT, SIGN "STH 65 ROBERTS"	1018.53



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PLAN AND PROFILE	SHEET E

FILE NAME : s:\mad\1000--1099\1089\199\Micros\Plan\050111_pp.dgn PLOT DATE : 1/4/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

STA. 534+00 EB
FREEWAY MAINTENANCE CROSSOVER REQ'D

N

R/W

MATCHLINE STA. 530+00 EB

IH 94 WB

0 WB | 531+00 WB | 532+00 WB | 533+00 WB | 534+00 WB | 535+00 WB | 536+00 WB | 537+00 WB | 538+00 WB | 539+00 WB | 540+00 WB

0 EB | 531+00 EB | 532+00 EB | 533+00 EB | 534+00 EB | 535+00 EB | 536+00 EB | 537+00 EB | 538+00 EB | 539+00 EB | 540+00 EB | 541+00 EB | 542+00 EB | 543+00 EB | 544+00 EB | 545+00 EB

IH 94 EB

SIGN

SIGN

END PROJECT
STA. 545+00 EB

FO

AT&T WI
LEVEL 3
WISDOT

QWEST

R/W

5

5

1035
1030
1025
1020
1015
1010
1005

EXISTING GROUND

1,023.95 | 1,024.28 | 1,024.85 | 1,025.24 | 1,025.64 | 1,026.03 | 1,026.44 | 1,026.83 | 1,027.36 | 1,027.81 | 1,028.42 | 1,028.85 | 1,029.40 | 1,030.09 | 1,030.63 | 1,031.25

530+00 EB | 531+00 EB | 532+00 EB | 533+00 EB | 534+00 EB | 535+00 EB | 536+00 EB | 537+00 EB | 538+00 EB | 539+00 EB | 540+00 EB | 541+00 EB | 542+00 EB | 543+00 EB | 544+00 EB | 545+00 EB

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PLAN AND PROFILE	SHEET 364	E

STAR LANE ALIGNMENT

STAR1 PI #1
STA: 10+00.00SL
X: 561914.313
Y: 335396.053

STAR1 PI #3
STA: 12+28.74SL
X: 562136.625
Y: 335361.710

STAR1PI # 2
PI STA: 11+24.84SL
X: 562031.250
Y: 335352.335
DELTA: -25°34'59.07"
DEG: 22°55'05.92"
L: 111.63'
T: 56.76'
R: 250.00'
PC STA: 10+68.08SL
PT STA: 11+79.71SL

65 RL PI #1
STA: 31+15.35S
X: 561712.637
Y: 334862.408

65RL PI # 2
PI STA: 39+79.29S
X: 562018.379
Y: 335670.436
DELTA: -27°17'13.64"
DEG: 4°29'37.63"
L: 607.22'
T: 309.48'
R: 1275.00'
PC STA: 36+69.81S
PT STA: 42+77.02S

65 RL PI # 3
PI STA: 45+36.94S
X: 561953.315
Y: 336236.106
DELTA: 27°06'33.57"
DEG: 381°58'18.71"
L: 7.10'
T: 3.62'
R: 15.00'
PC STA: 45+33.33S
PT STA: 45+40.42S

STA 33+10S
BEGIN CONSTRUCTION
SAWCUT REQUIRED

NOTE:
SEE ALIGNMENT DATA AND INTERSECTION DETAILS
FOR ADDITIONAL LAYOUT INFORMATION

STA 11+85SL
SAWCUT REQ'D

MIDWEST NATURAL GAS
BALDWIN TELECOM
AT&T WI
OWEST, LEVEL 3, WISDOT
SLOPE INTERCEPTS (TYP)
R/W
CAUTION
EB EXIT RAMP
EB ENTRANCE RAMP
STH 65 SB
STH 65 NB
SB R
NB R
65R
A-RAMP
B-RAMP
STAR LN
32+00S
33+00S
34+00S
35+00S
36+00S
37+00S
38+00S
39+00S
40+00S
41+00S
42+00S
43+00S
44+00S
45+00S
46+00
498+00 A
499+00 B
500+00 B
501+00 B

5

5

STAR LANE

VPOT STA 10+00.00SL
VPOT EL1043.56
+3.60 %
+0.74 %
VPI STA 10+24.86SL
VPI EL1044.49
STA 10+40SL
2X36-INCH CPRC REQ'D
4 ENDWALLS REQ'D
VPOT STA 11+85.00SL
VPOT EL1050.25

VPOT STA 33+10.00S
VPOT EL1055.47
-3.05 %
VCL 530.00
K = 96.49
FINISHED PROFILE
39+76.31S
1039.18
EXISTING PROFILE
VPC STA 36+70.00S
VPC EL 1044.04
VPI STA 39+35.00S
VPI EL1035.63
STA 40+10S
60-INCH CPRC REQ'D
2 ENDWALLS REQ'D
VPT STA 42+00.00S
VPT EL1041.77
+2.32 %
VPC STA 44+70.00S
VPC EL1048.03
K = 144.00
VCL 570.00

	10+00		11+00		12+00
EXISTING	1043.49	1045.39	1047.42	1049.67	1050.44
PROPOSED	1043.56	1045.39	1047.19	1048.99	

	33+00	34+00	35+00	36+00	37+00	38+00	39+00	40 +00	41 +00	42+00	43+00	44+00	45+00	46+00
EXISTING	1055.80	1054.19	1052.73	1051.22	1049.55	1047.95	1046.30	1044.58	1043.11	1041.84	1040.57	1039.41	1038.39	1037.98	1037.60	1037.72	1037.87	1038.22	1038.58	1039.76	1040.37	1034.11	1030.46	1028.78	1028.45	1028.34	1030.99
PROPOSED	1055.80	1054.20	1052.61	1051.03	1049.44	1047.85	1046.26	1044.68	1043.14	1041.83	1040.79	1040.01	1039.48	1039.22	1039.21	1039.46	1039.97	1040.74	1041.77	1042.93	1044.09	1045.25	1046.41	1047.57	1048.70	1049.66	1050.45

PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST. CROIX	PLAN & PROFILE - STH 65	SHEET E

FILE NAME : G:\STRAND\S100917\DGN\PLANPROF\050101_pp.dgn
PLOT DATE : 1/5/2012
PLOT BY : KL Engineering
PLOT NAME :
PLOT SCALE :
WISDOT/CADDS SHEET 40

65RL PI # 4
PI STA: 47+65.43S
X: 562033.558
Y: 336450.181
DELTA: -16°24'09.21"
DEG: 381°58'18.71"
L: 4.29'
T: 2.16'
R: 15.00'
PC STA: 47+63.27S
PT STA: 47+67.56S

NOTE: SEE ALIGNMENT DIAGRAM AND INTERSECTION DETAILS FOR ADDITIONAL LAYOUT INFORMATION

65NBRL1 PI #8
STA: 66+70.27S
X: 562327.211
Y: 338311.876

65RL PI # 5
PI STA: 51+65.12S
X: 562062.453
Y: 336848.861
DELTA: 15°00'38.05"
DEG: 381°58'18.71"
L: 3.93'
T: 1.98'
R: 15.00'
PC STA: 51+63.15S
PT STA: 51+67.08S

65RL PI # 6
PI STA: 54+47.82S
X: 562155.225
Y: 337115.927
DELTA: -24°31'42.79"
DEG: 381°58'18.71"
L: 6.42'
T: 3.26'
R: 15.00'
PC STA: 54+44.56S
PT STA: 54+50.98S

65RL PI # 7
PI STA: 60+21.21S
X: 562101.528
Y: 337686.892
DELTA: 25°13'38.74"
DEG: 2°41'46.58"
L: 935.64'
T: 475.53'
R: 2125.00'
PC STA: 55+45.68S
PT STA: 64+81.32S

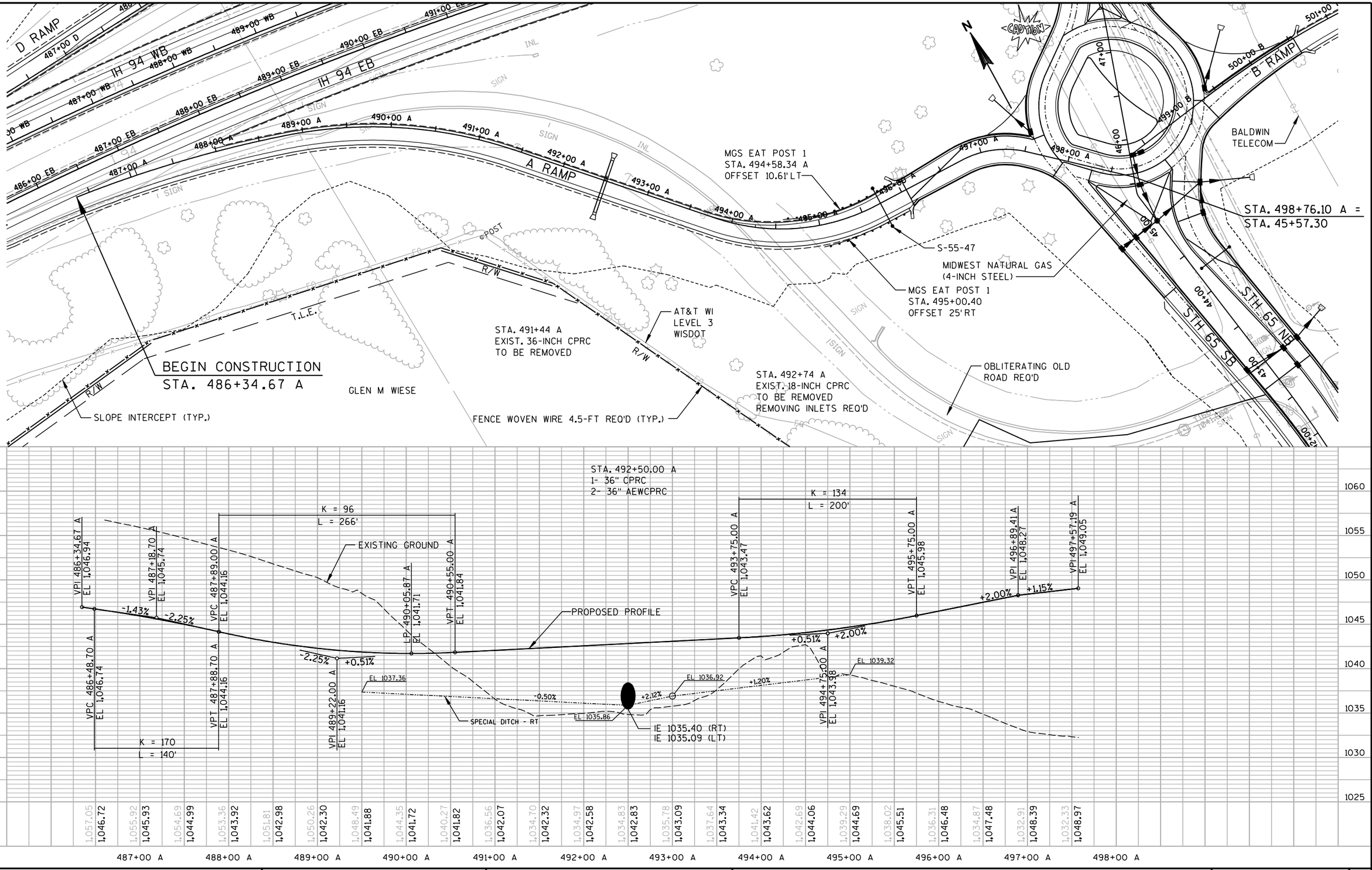
END CONSTRUCTION
STA 64+00S
SAWCUT REQUIRED

VPC STA 52+35.00S
VPC EL1046.44
-1.71 %
FINISHED PROFILE
VPI STA 54+30.00S
VPI EL1043.11
SAME POINT
VPT STA 56+25.00S
VPT EL1034.30
-4.52 %
K = 138.70
VCL 390.00
EXISTING PROFILE
VCL 320.00
K = 96.16
VPC STA 61+35.00S
VPC EL1011.24
VPI STA 62+95.00S
VPI EL1004.01
-1.19 %
VPT STA 64+55.00S
VPT EL1002.10
VPOT STA 64+98.00S
VPOT EL1001.59

52+00	53+00	54+00	55+00	56+00	57+00	58+00	59+00	60+00	61+00	62+00	63+00	64+00	65+00	66+00
1043.28	1042.09	1039.94	1036.19	1032.07	1028.28	1028.12	1027.61	1027.12	1027.53	1025.66	1023.46	1021.09	1018.95	1016.96	1014.95	1013.16	1011.40	1009.72	1008.35	1006.74	1005.82	1004.75	1003.80	1002.92	1002.19	1001.56	1001.08	1000.82	1000.61
EXISTING	1047.04	1046.18	1045.18	1044.00	1042.64	1041.10	1039.38	1037.48	1035.40	1033.17	1030.91	PROPOSED	1028.65	1026.39	1024.13	1021.87	1019.61	1017.35	1015.09	1012.83	1010.58	1008.52	1006.73	1005.20	1003.93	1002.92	1002.16			

PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST. CROIX	PLAN & PROFILE - STH 65	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\PLANPROF\050102_pp.dgn PLOT DATE : 1/5/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :
WISDOT/CADDS SHEET 40



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PLAN AND PROFILE - A RAMP	SHEET 367	E

ST CROIX ELECTRIC

AT&T WI

OWEST

IH 94 EB

IH 94 WB

B RAMP

STH 65 NB

MGS EAT POST 1
STA. 47+39.14 65NB
OFFSET 57.01RT

OBLITERATING OLD
ROAD REQ'D

AT&T WI
LEVEL 3
WISDOT

WILKENS PROPERTIES LLC

SLOPE INTERCEPT (TYP.)

FENCE WOVEN WIRE 4.5-FT REQ'D (TYP.)

STA. 498+28.62 B =
STA. 45+81.64

BALDWIN TELECOM

STA. 502+73 B (ON EXISTING RAMP)
EXIST. 18-INCH CPRC
TO BE REMOVED
REMOVING INLETS REQ'D

STA. 508+22
EXIST. 18-INCH CPRC
TO BE REMOVED
REMOVING INLETS REQ'D

END CONSTRUCTION
STA. 513+85.64 B

HP 499+60.75 B
EL 1,049.39

VPI 500+70.00 B
EL 1,049.96

VPI 499+33.97 B
EL 1,049.31

+0.48%

-4.99%

VPC 499+37.50 B
EL 1,049.33

K = 48
L = 265'

VPT 502+02.50 B
EL 1,043.35

K = 115
L = 630'

VPC 504+80.00 B
EL 1,029.50

PROPOSED PROFILE

EXISTING GROUND

SPECIAL DITCH - RT

EL 1017.17

EL 1010.37

-1.40%

-3.40%

VPI 507+95.00 B
EL 1,013.78

+0.48%

EL 1008.27

EL 1008.13
(SHOWN 5' ABOVE DATUM)

+0.55%

LP 510+54.72 B
EL 1,015.16

VPT 511+10.00 B
EL 1,015.30

SPECIAL DITCH - RT
(SHOWN 5' ABOVE DATUM)

+0.48%

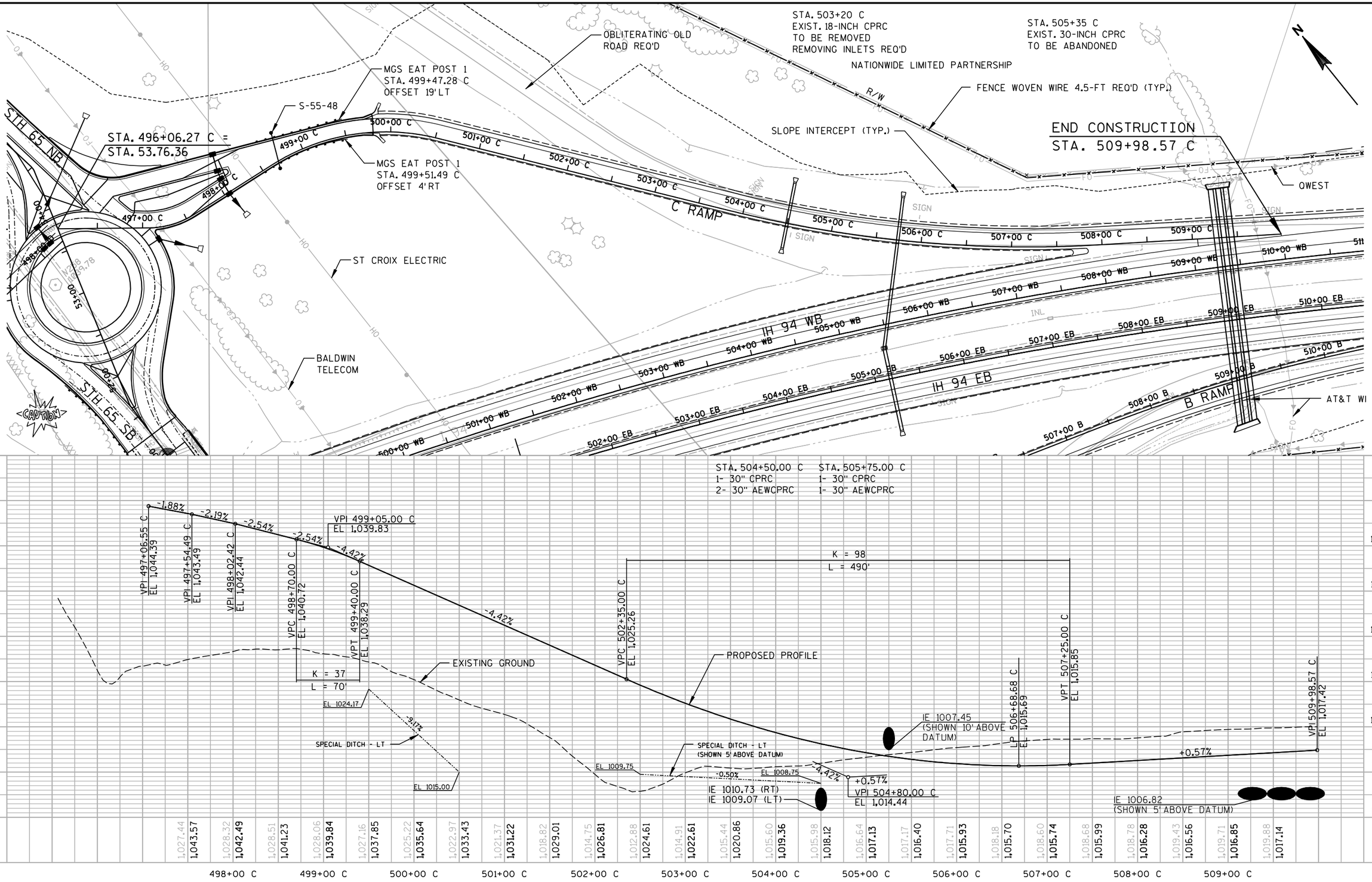
VPI 513+85.64 B
EL 1,016.62

EL 1010.74

+1.21%

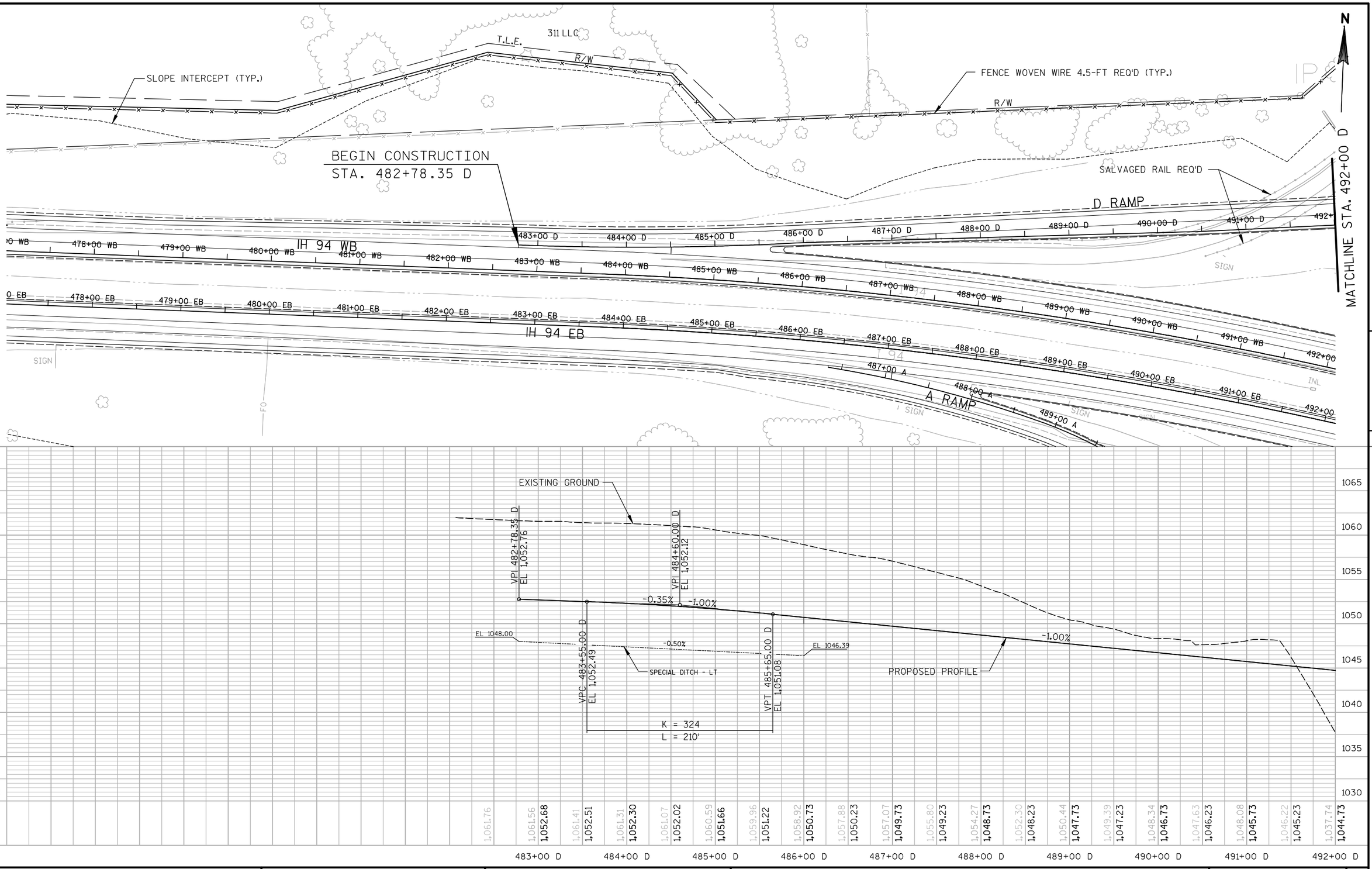
EL 1011.78

| | | |



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PLAN AND PROFILE - C RAMP	SHEET 369	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\050114_pp.dgn PLOT DATE : 1/4/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 40



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PLAN AND PROFILE - D RAMP	SHEET 370	E

311 LLC

R/W

OBLITERATING OLD ROAD REQ'D

SALVAGED RAIL REQ'D

D RAMP BYPASS

CAUTION

MATCHLINE STA. 492+00 D

D RAMP

MGS EAT POST 1
STA. 52+13.15 65NB
OFFSET 58.27'LT

MIDWEST NATURAL GAS
(4-INCH STEEL)

IH 94 WB

BALDWIN TELECOM

SLOPE INTERCEPT (TYP.)

ST CROIX ELECTRIC

OBLITERATING OLD ROAD REQ'D

FENCE WOVEN WIRE 4.5-FT REQ'D (TYP.)

QWEST

COUNTY MATERIALS CORP

STA. 498+27.08 D =
STA. 53+61.94

C RAMP

N

5

5

STA. 494+45.00 D
1- 36" CPRC
2- 36" AEWCPRC
SKEW 16°29'37" LHF

K = 70
L = 140'

VPC 494+50.00 D
EL 1,042.23

LP 495+19.96 D
EL 1,041.88

VPT 495+90.00 D
EL 1,042.24

VPI 495+20.00 D
EL 1,041.54

VPI 497+31.49 D
EL 1,043.65

-1.00%

-1.00%

+1.00%

+1.00%

PROPOSED PROFILE

EXISTING GROUND

IE 1017.72 (RT)
IE 1012.48 (LT)

492+00 D	493+00 D	494+00 D	495+00 D	496+00 D	497+00 D
1,037.74	1,026.79	1,020.70	1,018.64	1,017.22	1,016.19	1,015.55	1,015.51	1,015.01	1,016.51	1,018.39
1,044.73	1,044.23	1,043.73	1,043.23	1,042.73	1,042.23	1,041.91	1,041.95	1,042.34	1,042.84	1,043.34

1050 1045 1040 1035 1030 1025 1020 1015

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PLAN AND PROFILE - D RAMP	SHEET 371	E

STA. 498+00 DB
EXIST. 18-INCH CPRC
TO BE REMOVED

STA. 499+50 DB
EXIST. 12-INCH CPRC
TO BE REMOVED

R/W

311 LLC

STA. 499+75 DB
EXIST. 24-INCH CPRC
TO BE REMOVED

OBLITERATING OLD
ROAD REQ'D

STA. 498+68 DB, LT
REMOVING INLETS REQ'D

SALVAGED RAIL REQ'D

STA. 499+99.16 DB =
STA. 57+73.81, 54.8' LT

STA. 493+74.84 DB =
STA. 493+74.84, 14' LT D

SLOPE INTERCEPT (TYP.)

MGS EAT POST 1
STA. 56+74.31 65NB
OFFSET 58.38' LT

D RAMP BYPASS

D RAMP

IH 94 WB

IH 94 EB

STH 65 SB

STH 65 NB

BLUE JAY PROPERTIES LLC

T.L.E.

FENCE WOVEN WIRE 4.5-FT REQ'D (TYP.)

R/W

OWEST

STATE OF WISCONSIN

MIDWEST NARTURAL GAS
(4-INCH STEEL)

ST CROIX ELECTRIC

BALDWIN TELECOM

BLUE JAY PROPERTIES LLC

STA. 497+00.00 DB
1- 24" CPRC
2- 24" AEWCPRC

PROPOSED PROFILE

-1.00%

-1.00%

-4.54%

-4.54%

VPI 493+74.84 DB
EL 1,042.66

VPC 496+90.00 DB
EL 1,039.51

VPI 497+75.00 DB
EL 1,038.66

VPT 498+60.00 DB
EL 1,034.80

VPI 499+99.16 DB
EL 1,028.48

IE 1025.19 (RT)
K = 48
L = 170'

EXISTING GROUND

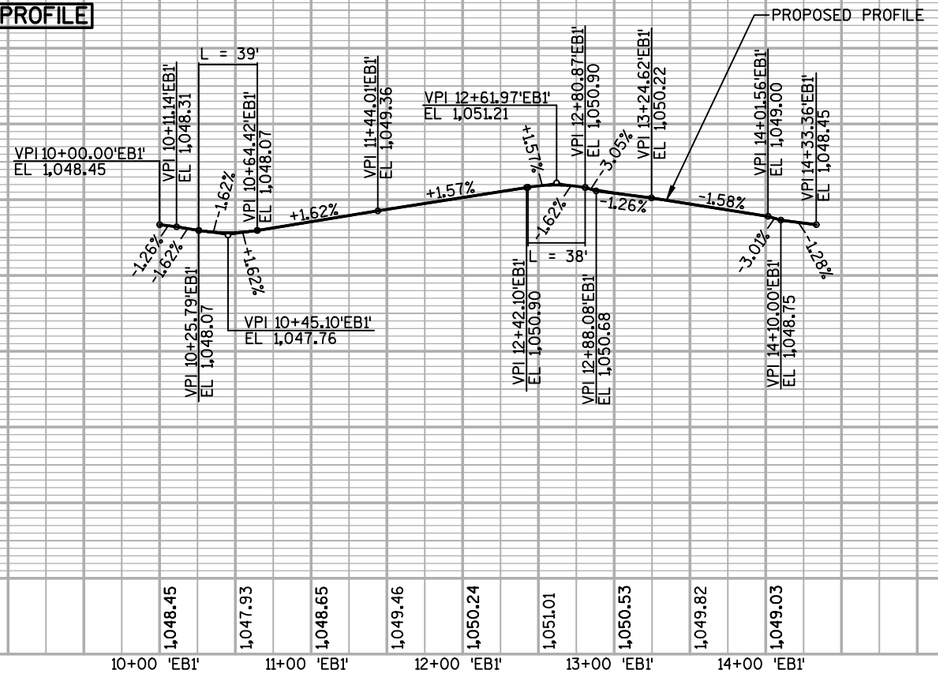
IE 1013.97 (LT)

1,017.05	**1,042.41**	1,015.96	**1,041.91**	1,015.05	**1,041.41**	1,014.40	**1,040.91**	1,013.44	**1,040.41**	1,014.71	**1,039.91**	1,015.58	**1,039.40**	1,016.73	**1,038.53**	1,017.42	**1,037.15**	1,018.99	**1,035.24**	1,026.17	**1,032.98**	1,023.11	**1,030.71**

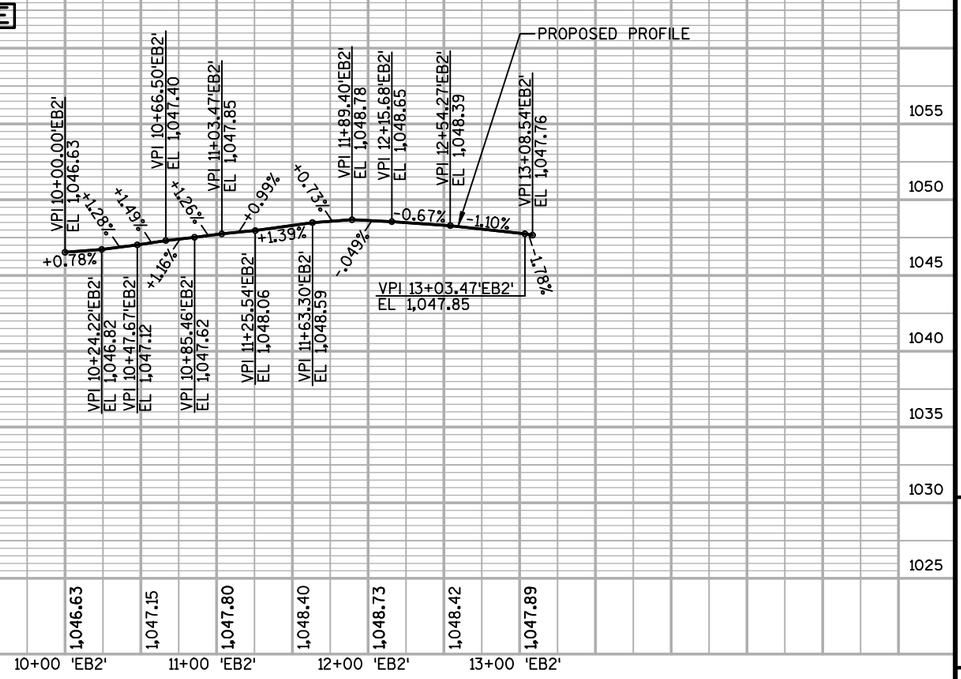
494+00 DB 495+00 DB 496+00 DB 497+00 DB 498+00 DB 499+00 DB

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PLAN AND PROFILE - D RAMP BYPASS	SHEET 372 E

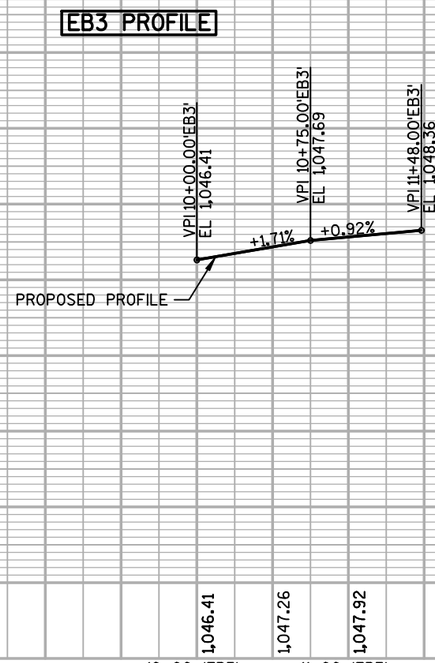
EB1 PROFILE



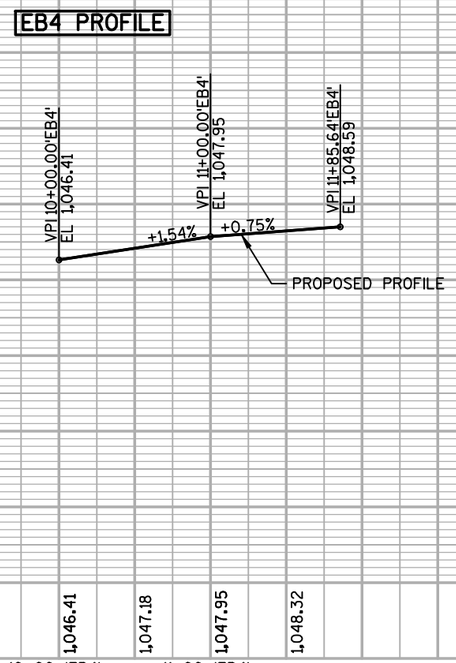
EB2 PROFILE



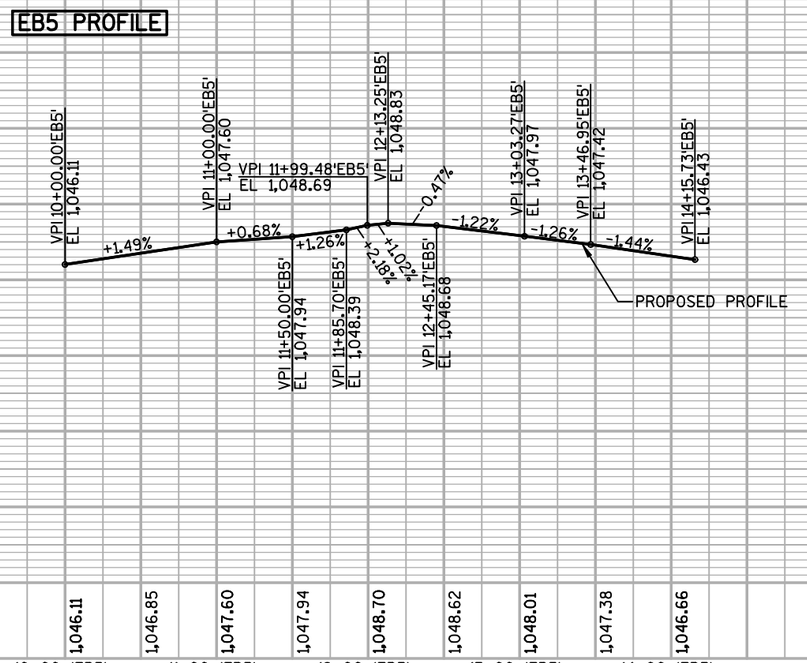
EB3 PROFILE



EB4 PROFILE



EB5 PROFILE

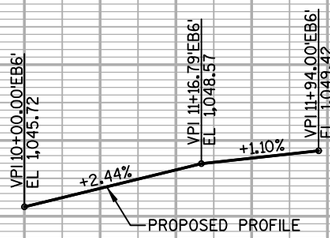


PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PROFILE - STH 65 ROUNDABOUT	SHEET

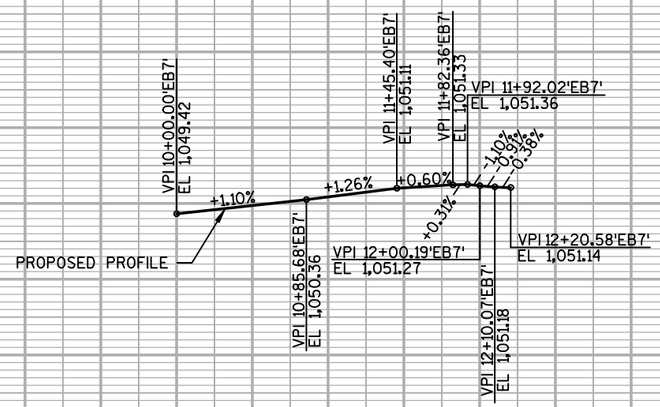
E

FILE NAME : s:\mad\1000--1099\1089\199\micros\plan\050118_pp.dgn PLOT DATE : 4/27/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 46

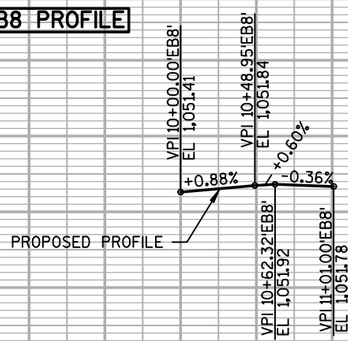
EB6 PROFILE



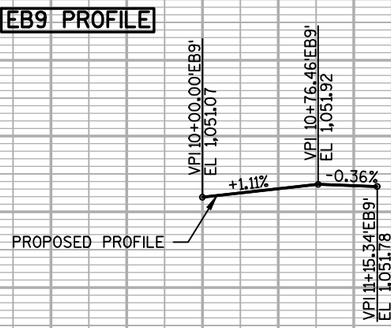
EB7 PROFILE



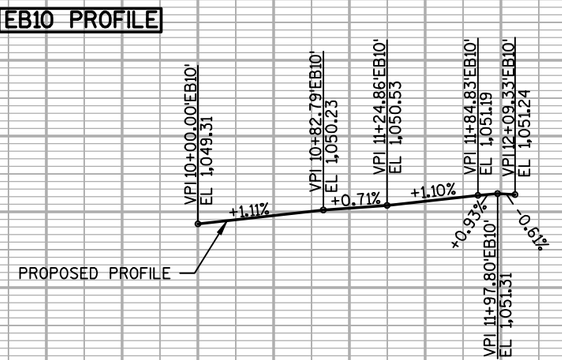
EB8 PROFILE



EB9 PROFILE

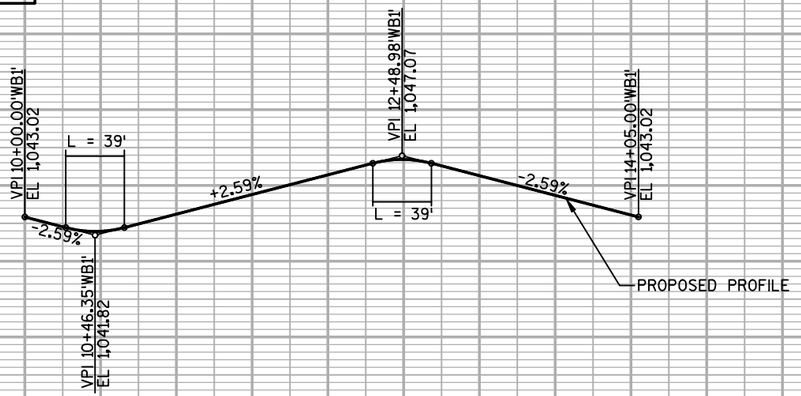


EB10 PROFILE

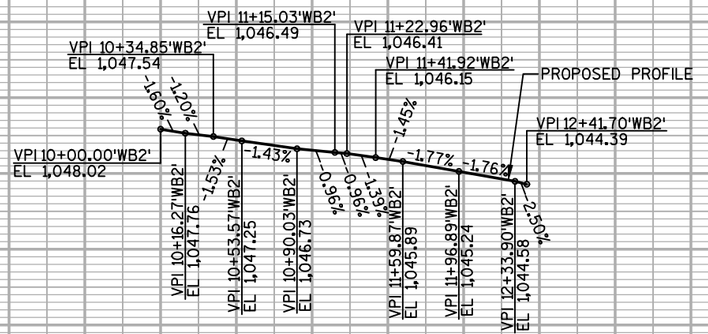


PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PROFILE - STH 65 ROUNDABOUT	SHEET 374	E

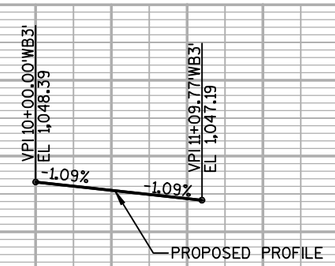
WB1 PROFILE



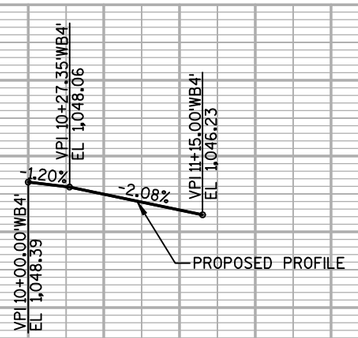
WB2 PROFILE



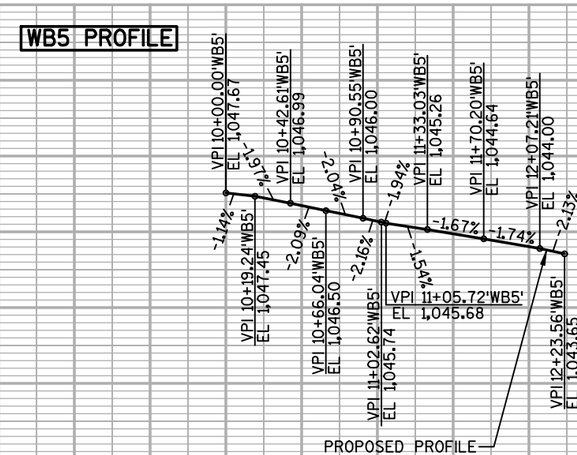
WB3 PROFILE



WB4 PROFILE

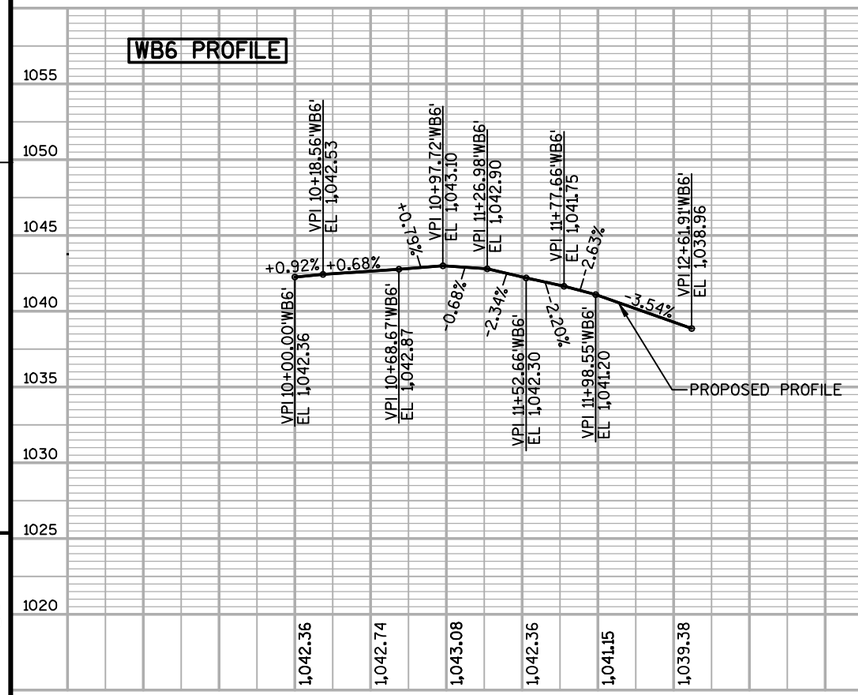


WB5 PROFILE

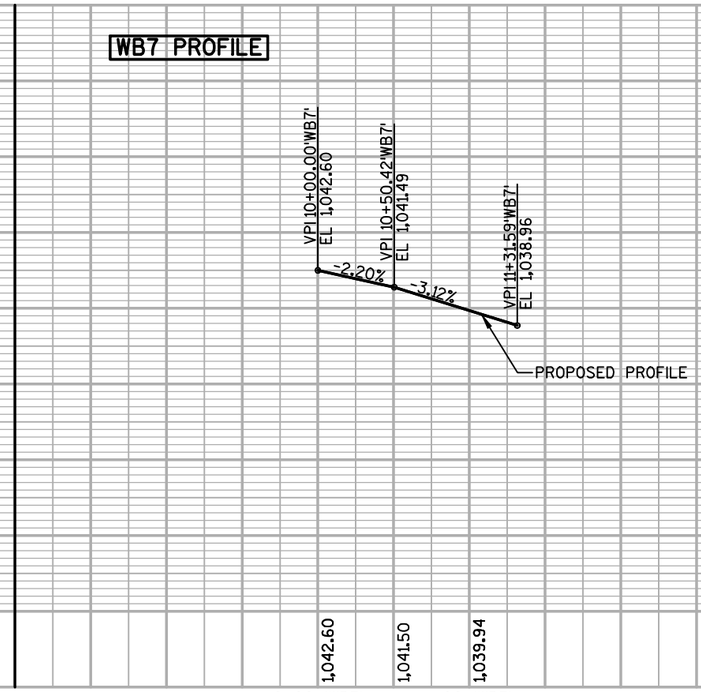


PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PROFILE - STH 65 ROUNDABOUT	SHEET 375 E

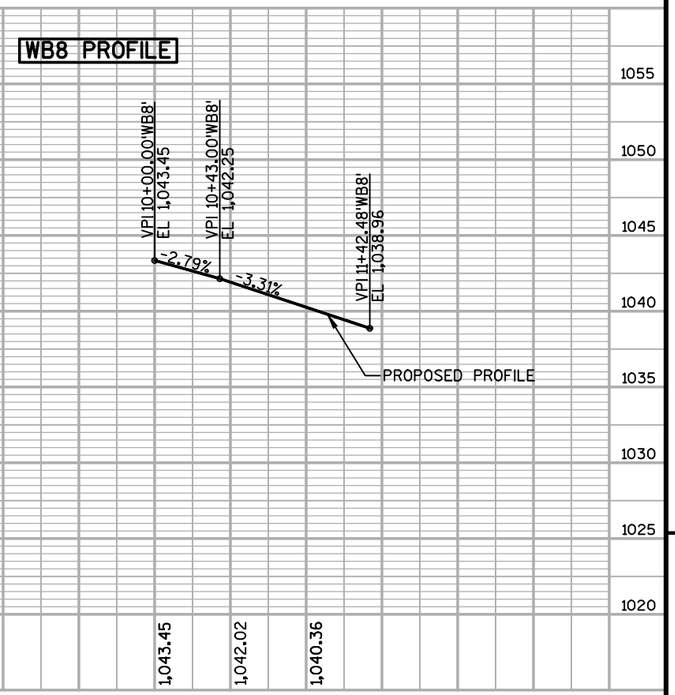
WB6 PROFILE



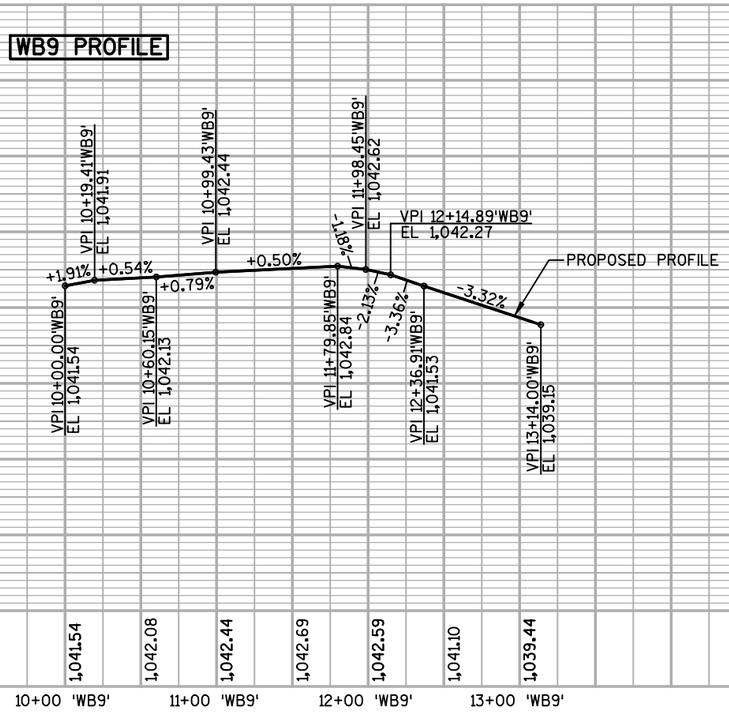
WB7 PROFILE



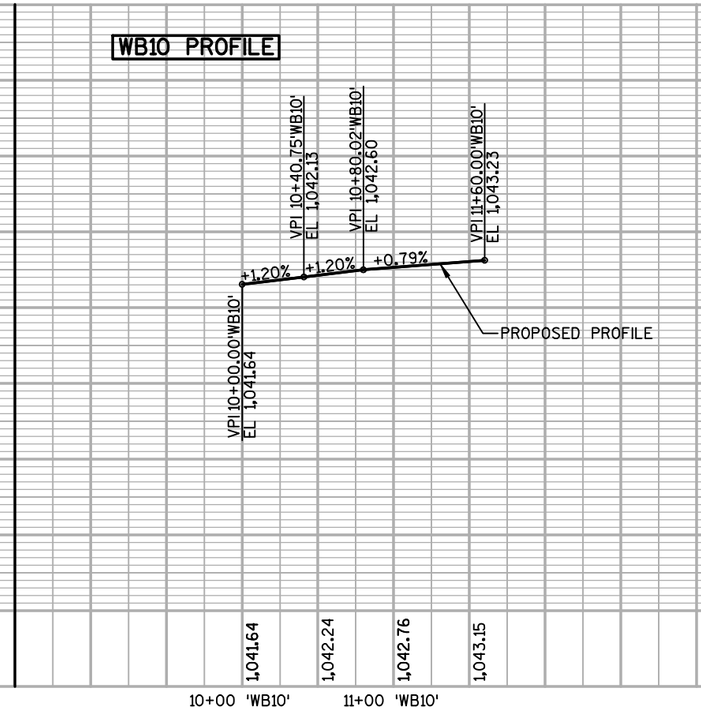
WB8 PROFILE



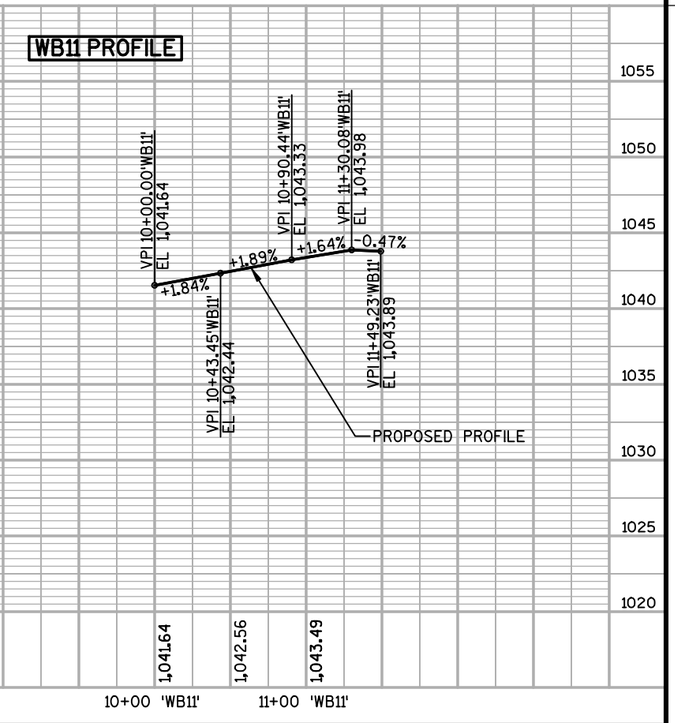
WB9 PROFILE



WB10 PROFILE

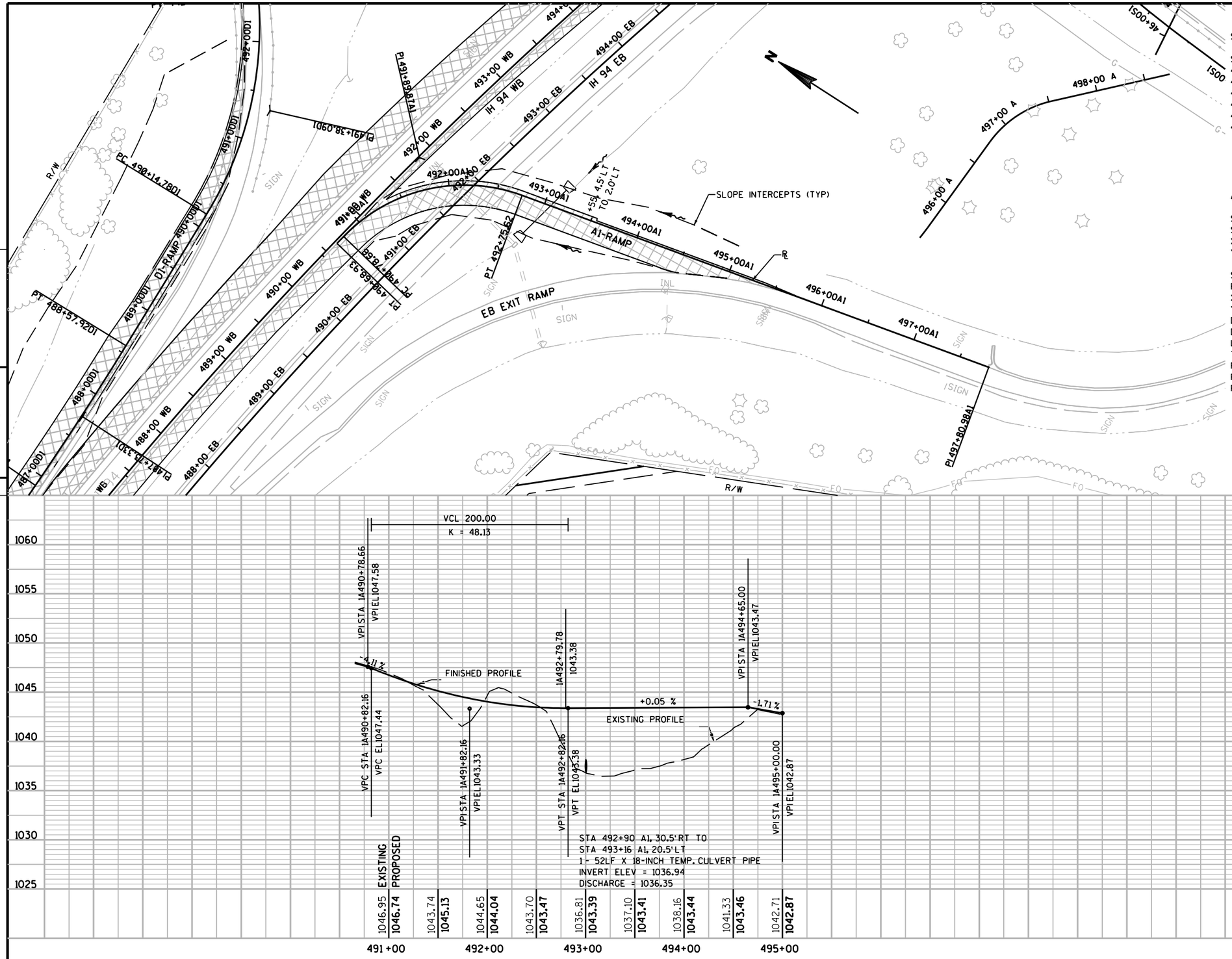


WB11 PROFILE

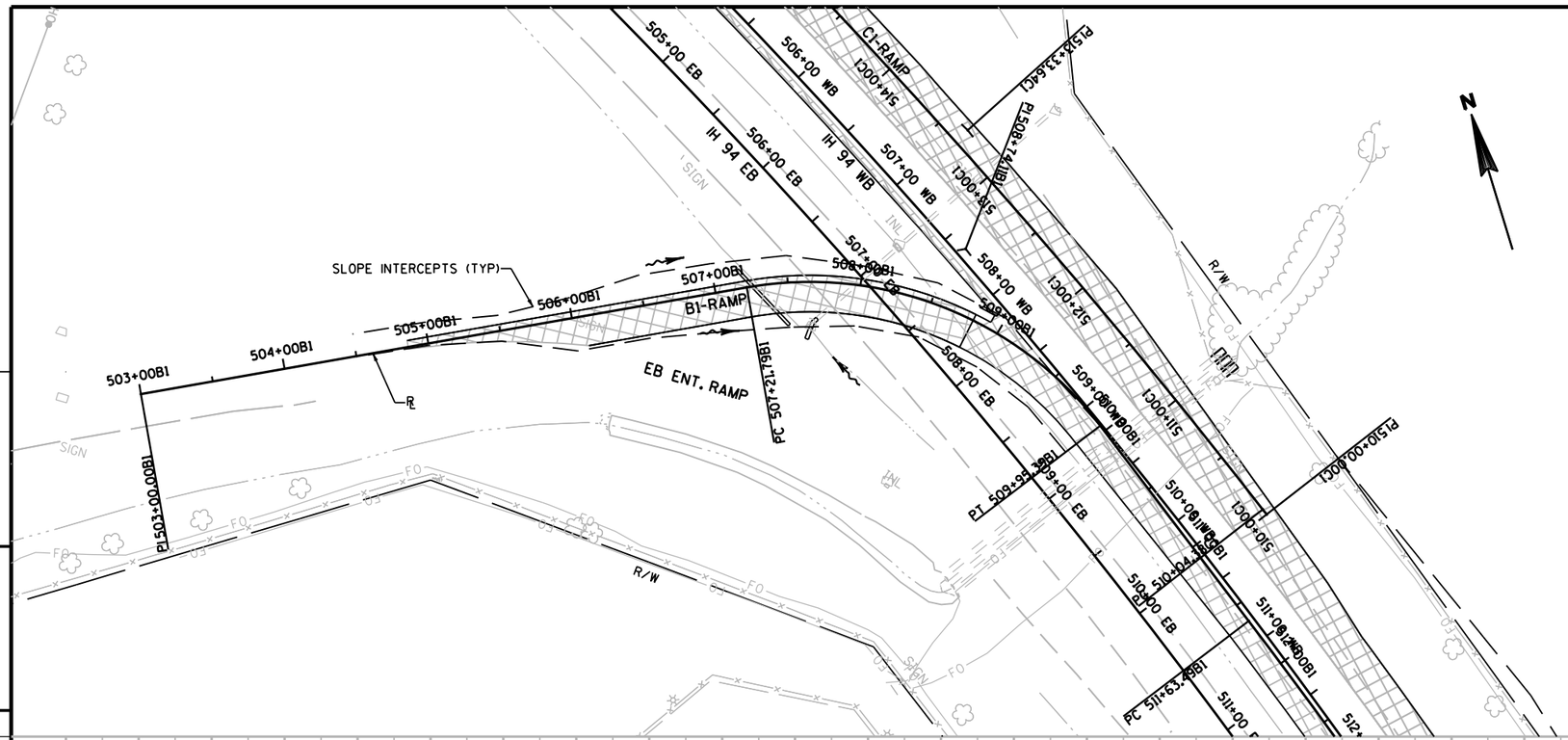


PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PROFILE - STH 65 ROUNDABOUT	SHEET E

FILE NAME : s:\mad\1000--1099\1089\199\micros\plan\050121_pp.dgn PLOT DATE : 4/27/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 46



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PLAN & PROFILE - A1-RAMP	SHEET 377 E



SUPER ELEVATION TABLE

STATION	LEFT SLOPE	RIGHT SLOPE	DESCRIPTION
504+15.00B1	6.00%	-6.00%	BEGIN FS
506+00.00B1	6.00%	-6.00%	END FS
506+20.00B1	5.30%	-5.30%	BEGIN FS
509+72.39B1	5.30%	-5.30%	END FS
510+02.99B1	3.50%	-3.50%	MATCH MAINLINE SE

B1-RAMP

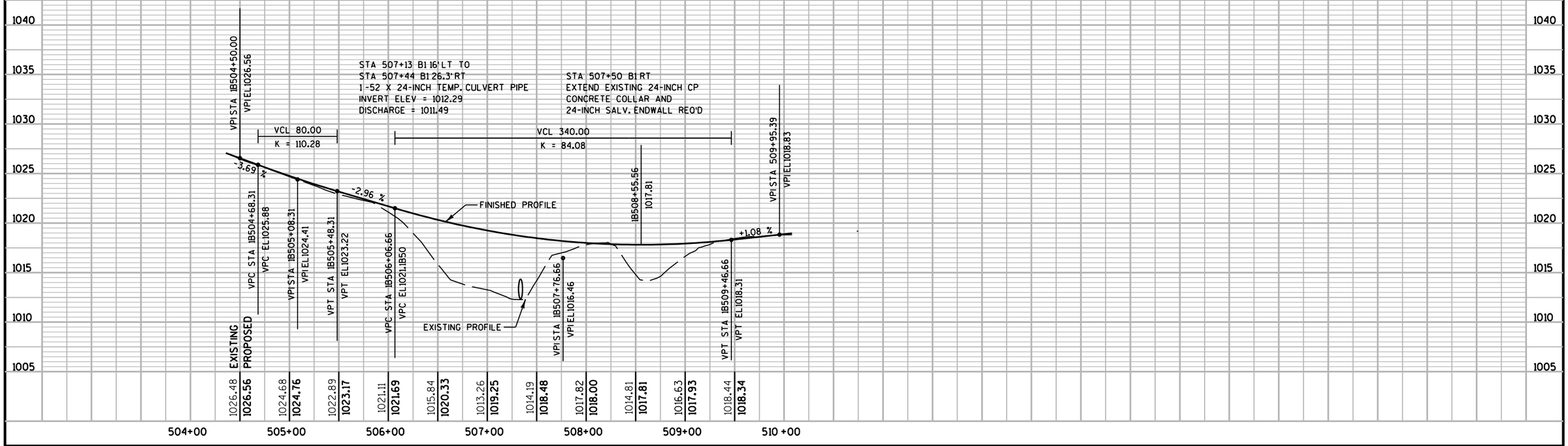
STG1B1 PI #1
STA: 503+00.00B1
X: 562423.031
Y: 336001.406

STG1B1PI # 2
PI STA: 508+74.11B1
X: 562934.731
Y: 336261.715
DELTA: 62°42'19.01"
DEG: 22°55'05.92"
L: 273.60'
T: 152.32'
R: 250.00'
PC STA: 507+21.79B1
PT STA: 509+95.39B1

STG1B1PI # 3
PI STA: 513+79.91B1
X: 563370.451
Y: 335948.130
DELTA: 5°41'19.05"
DEG: 1°18'55.19"
L: 432.49'
T: 216.42'
R: 4356.00'
PC STA: 511+63.49B1
PT STA: 515+95.97B1

STG1B1 PI #4
STA: 519+72.32B1
X: 563814.885
Y: 335555.883

STG1B1 PI #5
STA: 522+16.63B1
X: 563997.466
Y: 335393.558



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PLAN & PROFILE - B1-RAMP	SHEET 378	E

FILE NAME : G:±STRAND±S100917±DGN±PLANPROF±TRAFFIC CONTROL±050105_1bpp.dgn PLOT DATE : 1/5/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 40

C RAMP FOR STAGE 1

1CRAMP2 PI#1
STA: 510+00.00C1
X: 563185.250
Y: 336147.956

1CRAMP2PI# 2
PI STA: 513+33.64C1
X: 562912.375
Y: 336339.924
DELTA: -7°58'15.44"
DEG: 1°12'44.73"
L: 657.44'
T: 329.25'
R: 4725.72'
PC STA: 510+04.38C1
PT STA: 516+61.82C1

1CRAMP2PI# 3
PI STA: 517+71.30C1
X: 562522.007
Y: 336540.164
DELTA: 62°27'01.10"
DEG: 33°42'12.24"
L: 185.29'
T: 103.06'
R: 170.00'
PC STA: 516+68.24C1
PT STA: 518+53.54C1

1CRAMP2PI# 4
PI STA: 522+13.04C1
X: 562518.826
Y: 337002.714
DELTA: -26°50'01.05"
DEG: 9°32'57.47"
L: 281.00'
T: 143.13'
R: 600.00'
PC STA: 520+69.91C1
PT STA: 523+50.92C1

SUPERELEVATION TABLE

STATION	RIGHT SLOPE	DESCRIPTION
516+50.49C1	-1.50%	MATCH MAINLINE
517+02.58C1	-6.00%	BEGIN FS
518+19.20C1	-6.00%	END FS
520+91.59C1	3.80%	BEGIN FS
523+29.24C1	3.80%	END FS
524+64.77C1	5.70%	BEGIN FS
525+76.48C1	5.70%	END FS
526+10.86C1	3.70%	REV. CROWN
526+74.48C1	0.00%	ZERO SUPER

CONSTRUCT C2 RAMP CONCURRENT TO STA 501+25 C2
C2 RAMP SLOPE INTERCEPT
SLOPE INTERCEPTS (TYP)
2' BAD SHLDR
4.5' PAVED SHLDR
C1-RAMP
REMOVE CURB & GUTTER
WB EXIT RAMP
WB ENT. RAMP
STH 65
IH 94 EB
IH 94 WB
MIDWEST CAUTION

VCL 180.00
K = 31.27

VPI STA 521+65.58
VPI EL1040.62

VCL 200.00
K = 26.52

FINISHED PROFILE
EXISTING PROFILE

VPC STA 520+00.58
VPC EL1029.96

VPT STA 523+30.58
VPT EL1032.37

+6.46 %
-5.00 %
+0.71 %
+2.54 %

K = 28.78
VCL 330.00

STA 501+47 C2, 8.5'LT TO
STA 517+45 C1, 27.8'RT
1-105LF X 24-INCH TEMP. CULVERT PIPE
INVERT ELEV = 1016.90
DISCHARGE = 1015.00

STA 522+00 C1, 31.0'LT TO
STA 521+00 C1, 57.5'RT
1-140LF X 18-INCH TEMP. CULVERT PIPE
INVERT ELEV = 1027.19
DISCHARGE = 1015.56

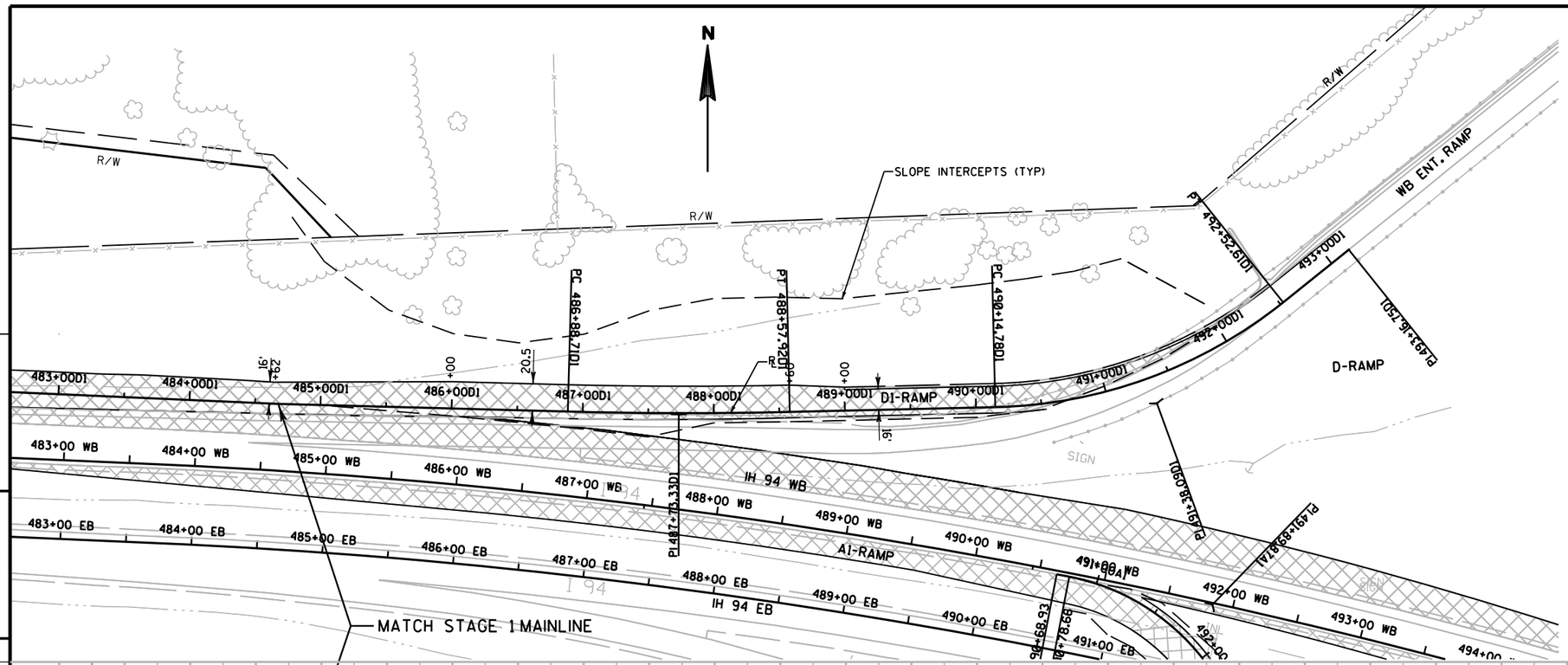
STA 525+00 C1, 6.0'LT TO
STA 524+00 C1, 40.5'RT
1-110LF X 18-INCH TEMP. CULVERT PIPE
INVERT ELEV = 1022.00
DISCHARGE = 1021.10

	EXISTING	PROPOSED
517	1014.86	1021.00
517+50	1015.76	1021.36
518	1018.16	1021.72
518+50	1019.55	1022.60
519	1020.58	1024.28
519+50	1021.24	1026.76
520	1021.94	1029.92
520+50	1022.51	1032.73
521	1023.63	1034.67
521+50	1024.72	1035.74
522	1025.58	1035.94
522+50	1026.60	1035.27
523	1027.53	1033.74
523+50	1028.27	1031.40
524	1028.10	1028.90
524+50	1024.03	1026.92
525	1022.20	1025.88
525+50	1025.47	1025.79
526	1026.84	1026.64

PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST. CROIX	PLAN & PROFILE: C1-RAMP	SHEET 379 E

FILE NAME : G:\STRAND\S100917\DGN\PLANPROF\TRAFFIC CONTROL\050106_1cpp.dgn PLOT DATE : 1/5/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 40



SUPER ELEVATION TABLE

STATION	LEFT SLOPE	DESCRIPTION
484+67.00D1	2.90%	MATCH MAINLINE
485+85.00D1	0.00%	ZERO SUPER
486+71.15D1	-2.00%	REV. CROWN
487+24.24D1	-3.99%	BEGIN FS
489+61.00D1	-3.98%	END FS
490+15.00D1	-6.00%	BEGIN FS

D1-RAMP

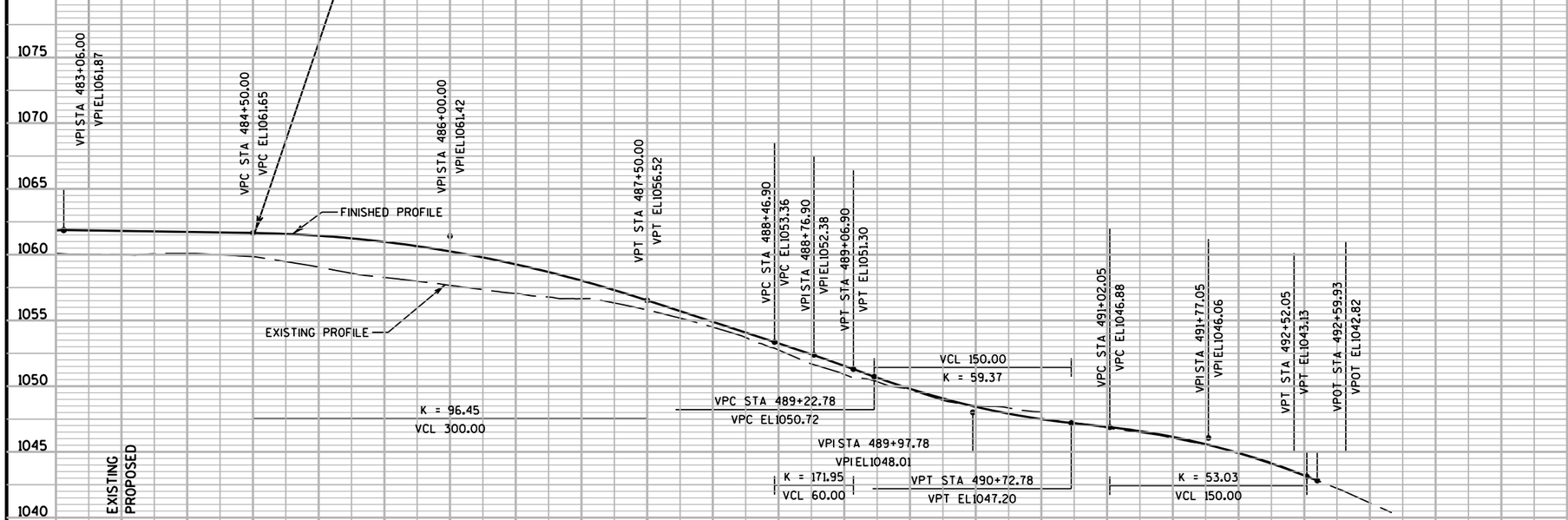
'D1' PI #1
STA: 476+72.29D1
X: 559968.509
Y: 337037.664

'D1' PI #2
STA: 484+67.80D1
X: 560763.250
Y: 337002.625

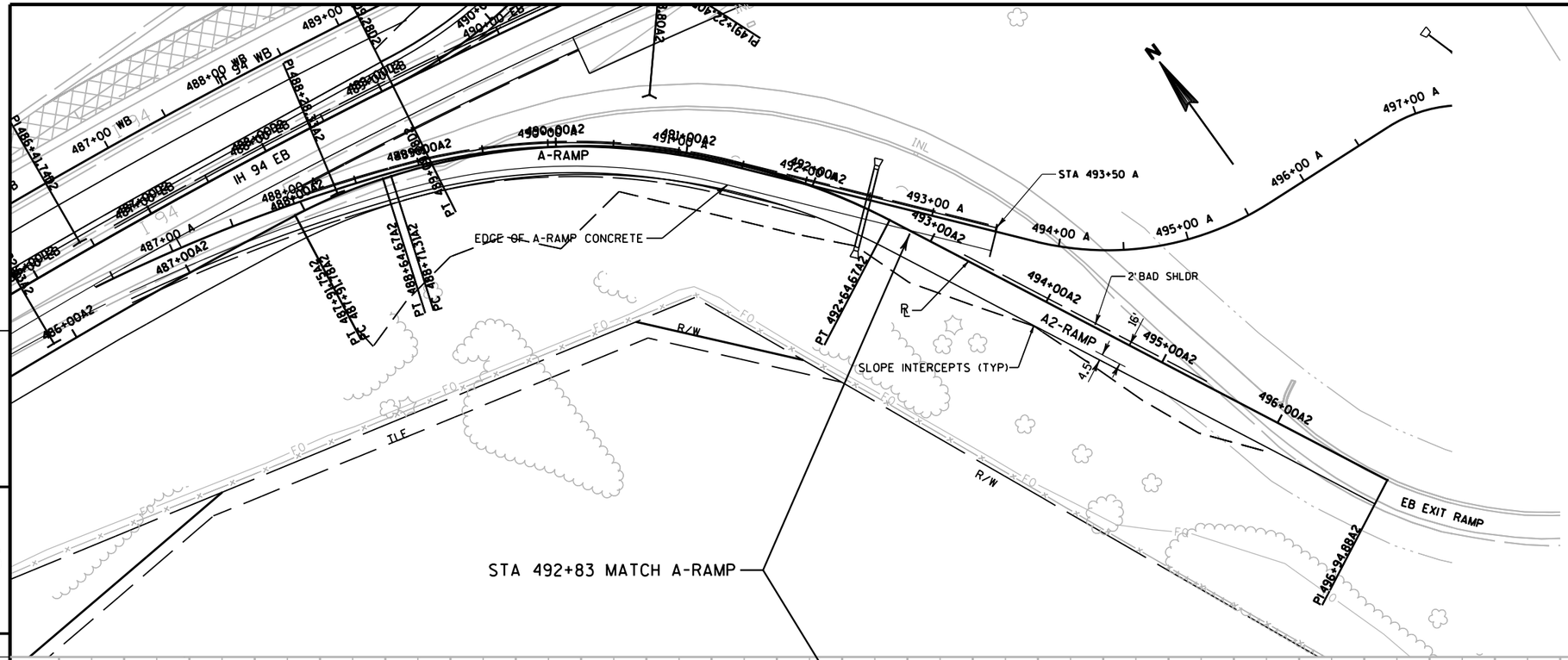
'D1' PI # 3
PI STA: 487+73.33D1
X: 561068.672
Y: 336994.572
DELTA: -2°50'47.14"
DEG: 1°40'55.93"
L: 169.21'
T: 84.62'
R: 3406.00'
PC STA: 486+88.71D1
PT STA: 488+57.92D1

'D1' PI # 4
PI STA: 491+38.09D1
X: 561433.366
Y: 337003.077
DELTA: -37°20'04.72"
DEG: 15°41'50.91"
L: 237.84'
T: 123.31'
R: 365.00'
PC STA: 490+14.78D1
PT STA: 492+52.61D1

'D1' PI #5
STA: 493+16.75D1
X: 561579.719
Y: 337120.205



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PLAN & PROFILE - D1-RAMP	SHEET 380	E



SUPER ELEVATION TABLE

STATION	LEFT SLOPE	RIGHT SLOPE	DESCRIPTION
492+23.45A2	6.00%	-6.00%	END FS
493+05.75A2	2.00%	-2.00%	REV. CROWN
493+88.42A2	-2.00%	2.00%	REV. CROWN
496+75.00A2	-10.00%	10.00%	BEGIN FS

A2-RAMP

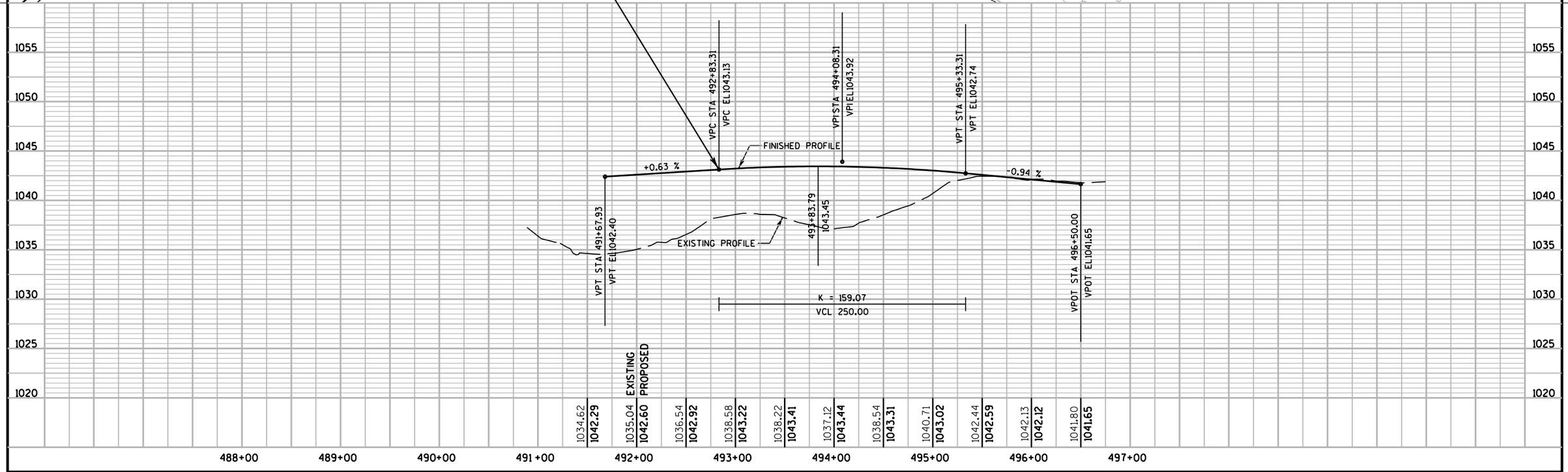
STG2A1PI#1
STA: 481+00.00A2
X: 560394.857
Y: 336854.529

STG2A1PI# 2
PI STA: 485+82.83A2
X: 560877.230
Y: 336833.455
DELTA: 5°16'53.79"
DEG: 1°15'47.28"
L: 418.14'
T: 209.22'
R: 4536.00'
PC STA: 483+73.62A2
PT STA: 487+91.75A2

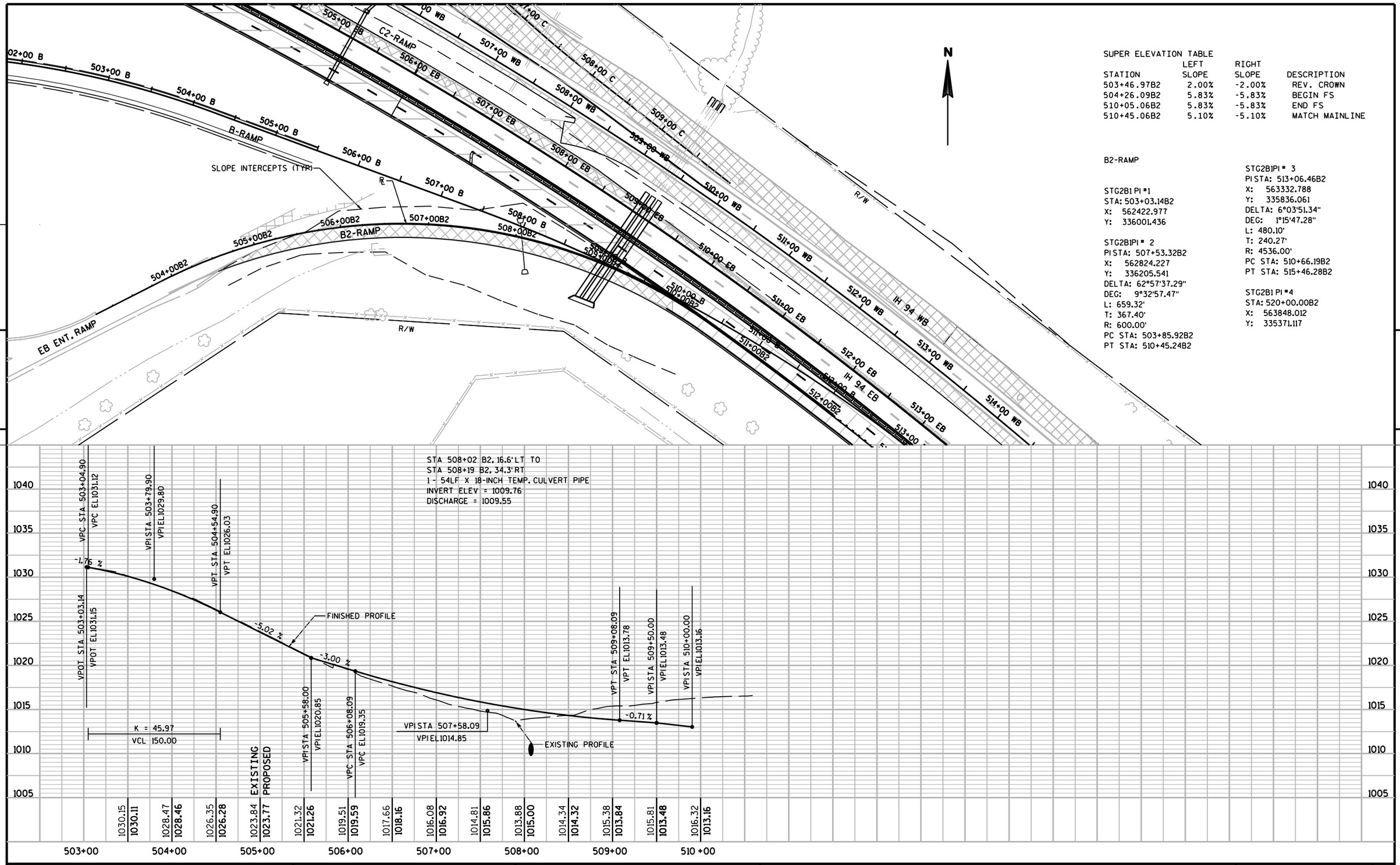
STG2A1PI# 3
PI STA: 488+28.33A2
X: 561120.755
Y: 336800.170
DELTA: 10°26'23.44"
DEG: 14°19'26.20"
L: 72.88'
T: 36.54'
R: 400.00'
PC STA: 487+91.78A2
PT STA: 488+64.67A2

STG2A1PI# 4
PI STA: 490+78.80A2
X: 561358.863
Y: 336721.778
DELTA: 45°04'35.06"
DEG: 11°27'32.96"
L: 393.37'
T: 207.50'
R: 500.00'
PC STA: 488+71.31A2
PT STA: 492+64.67A2

STG2A1PI#5
STA: 496+94.88A2
X: 561645.403
Y: 336152.074



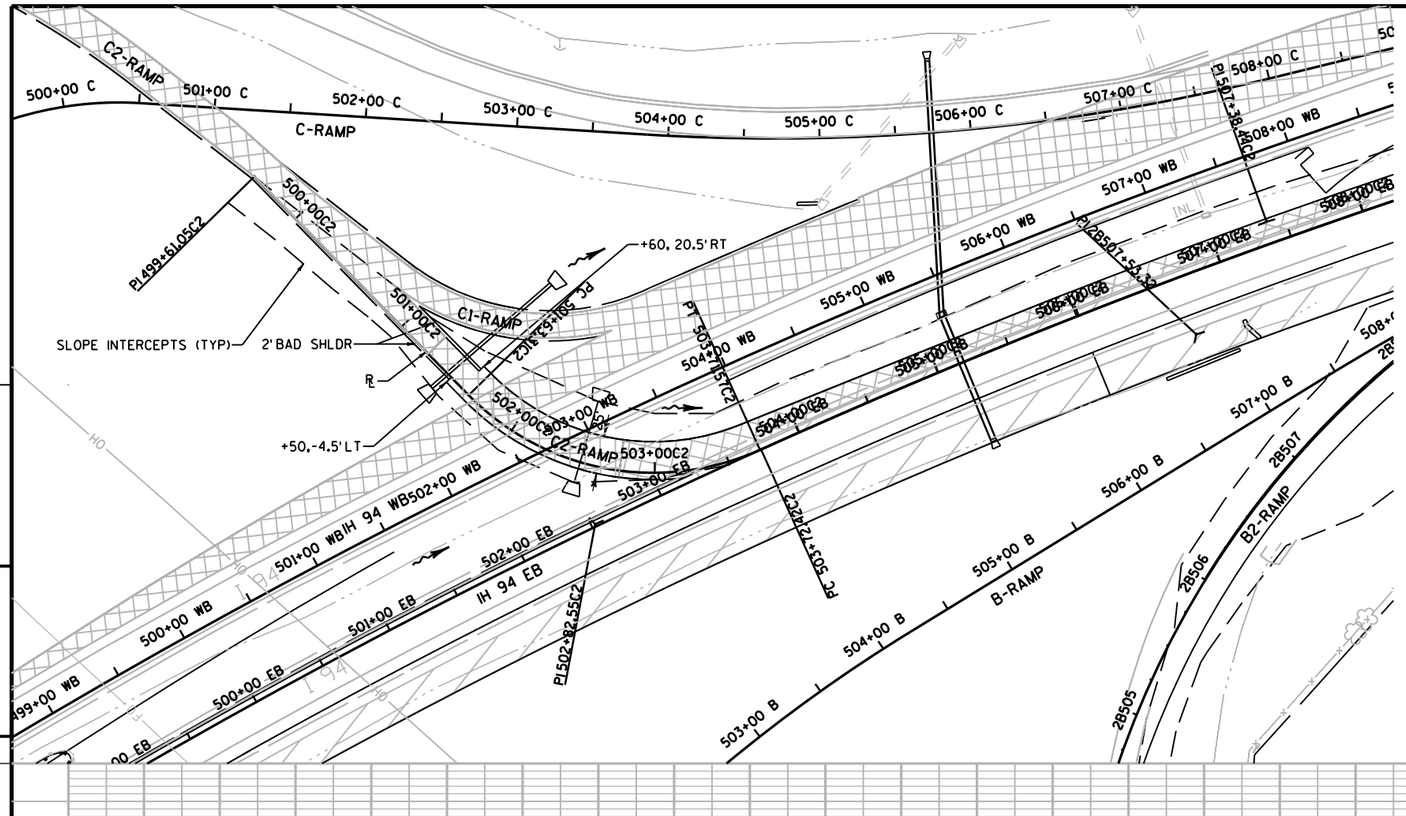
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PLAN & PROFILE - A2-RAMP	SHEET 381	E



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PLAN & PROFILE - B2-RAMP	SHEET E

FILE NAME : G:\STRAND\S100917\DGN\PLANPROF\TRAFFIC CONTROL\050109_2bpp.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : _____ PLOT SCALE :

WISDOT/CADDS SHEET 40



SUPERELEVATION TABLE

STATION	LEFT SLOPE	RIGHT SLOPE	DESCRIPTION
500+61.74C2	-2.00%	-2.00%	END NC
500+80.65C2	-2.67%	0.00%	ZERO SUPER
501+30.22C2	-2.00%	2.00%	REV. CROWN
501+96.98C2	-5.90%	5.90%	BEGIN FS
503+37.89C2	-5.90%	5.90%	END FS
504+04.66C2	-2.00%	2.00%	REV. CROWN
504+38.89C2	0.00%	0.00%	ZERO SUPER
504+73.13C2	2.00%	-2.00%	REV. CROWN
505+07.37C2	4.00%	-4.00%	BEG FS

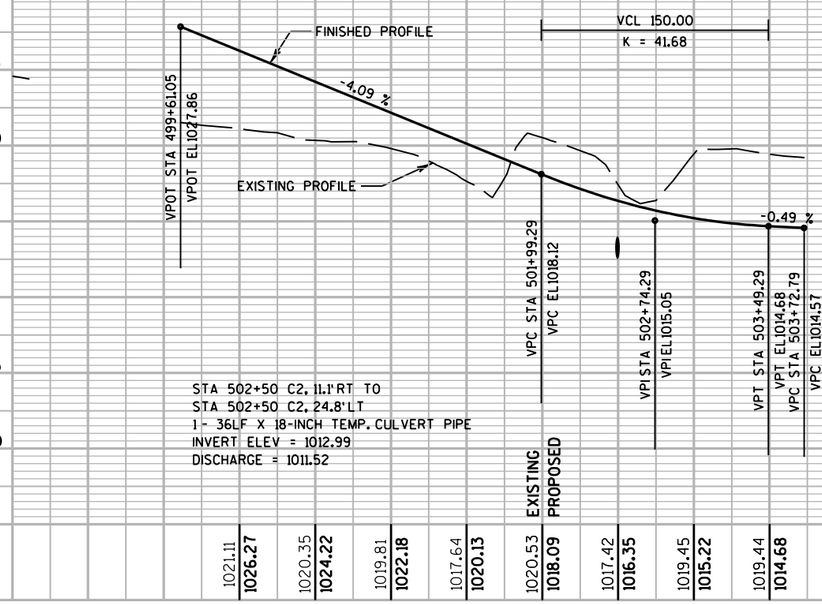
C2-RAMP

1STG2C1 PI #1
STA: 499+61.05C2
X: 562520.475
Y: 336758.266

1STG2C1PI # 2
PI STA: 502+82.55C2
X: 562479.996
Y: 336439.320
DELTA: -69°46'50.17"
DEG: 33°30'22.69"
L: 208.26'
T: 119.25'
R: 171.00'
PC STA: 501+63.31C2
PT STA: 503+71.57C2

1STG2C1PI # 3
PI STA: 507+38.44C2
X: 562911.380
Y: 336215.211
DELTA: 9°07'07.04"
DEG: 1°14'53.79"
L: 730.50'
T: 366.02'
R: 4590.00'
PC STA: 503+72.42C2
PT STA: 511+02.92C2

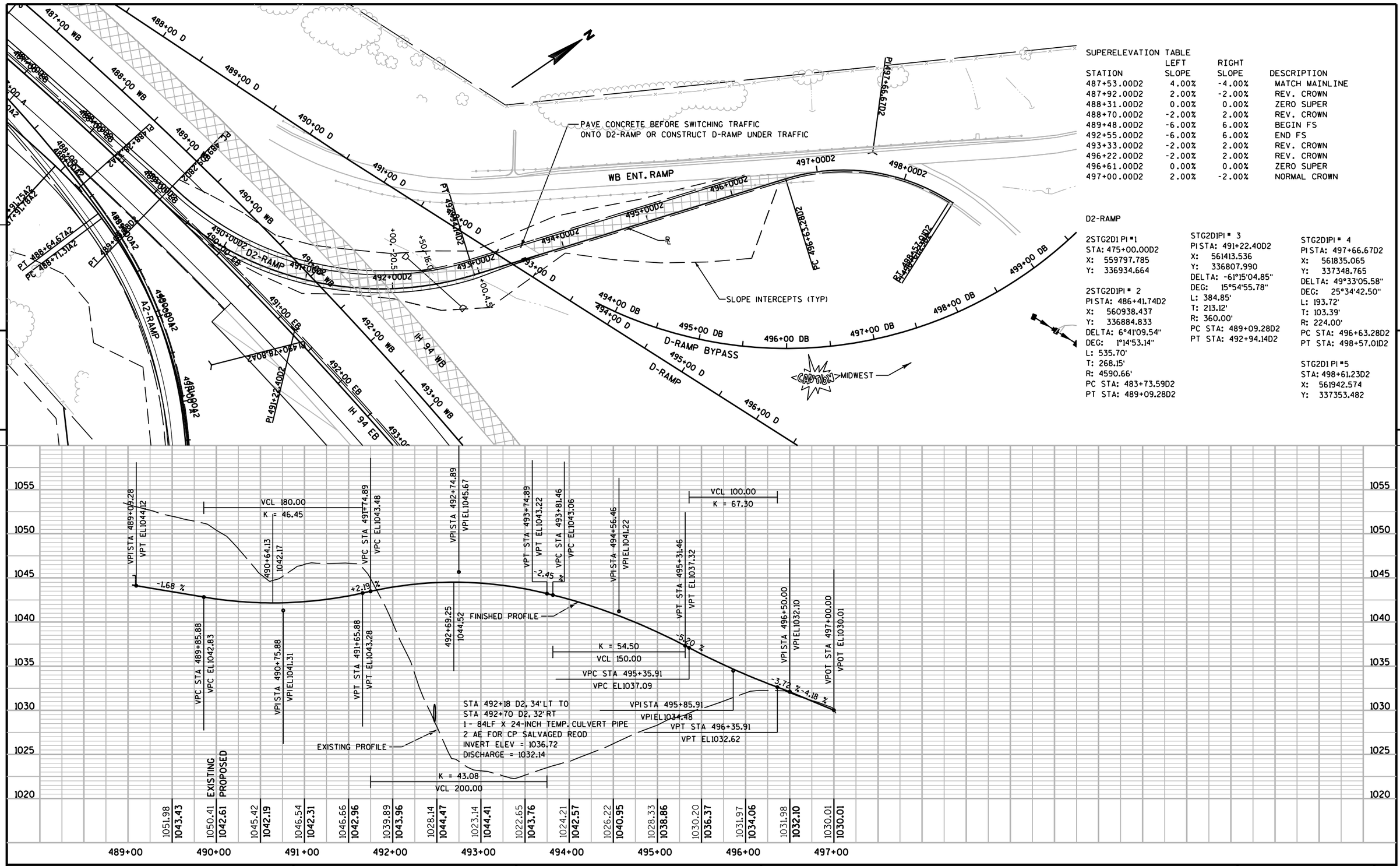
1STG2C1 PI #4
STA: 511+02.97C2
X: 563205.381
Y: 335997.097



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PLAN & PROFILE - C2-RAMP	SHEET 383	E

FILE NAME : G:\STRAND\S100917\DGN\PLANPROF\TRAFFIC CONTROL\050110_2cpp.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 40



SUPERELEVATION TABLE

STATION	LEFT SLOPE	RIGHT SLOPE	DESCRIPTION
487+53.00D2	4.00%	-4.00%	MATCH MAINLINE
487+92.00D2	2.00%	-2.00%	REV. CROWN
488+31.00D2	0.00%	0.00%	ZERO SUPER
488+70.00D2	-2.00%	2.00%	REV. CROWN
489+48.00D2	-6.00%	6.00%	BEGIN FS
492+55.00D2	-6.00%	6.00%	END FS
493+33.00D2	-2.00%	2.00%	REV. CROWN
496+22.00D2	-2.00%	2.00%	REV. CROWN
496+61.00D2	0.00%	0.00%	ZERO SUPER
497+00.00D2	2.00%	-2.00%	NORMAL CROWN

D2-RAMP

2STG2D1 PI #1
STA: 475+00.00D2
X: 559797.785
Y: 336934.664

2STG2D1PI # 2
PI STA: 486+41.74D2
X: 560938.437
Y: 336884.833
DELTA: 6°41'09.54"
DEG: 1°14'53.14"
L: 535.70'
T: 268.15'
R: 4590.66'
PC STA: 483+73.59D2
PT STA: 489+09.28D2

STG2D1PI # 3
PI STA: 491+22.40D2
X: 561413.536
Y: 336807.990
DELTA: -61°15'04.85"
DEG: 15°54'55.78"
L: 384.85'
T: 213.12'
R: 360.00'
PC STA: 489+09.28D2
PT STA: 492+94.14D2

STG2D1PI # 4
PI STA: 497+66.67D2
X: 561835.065
Y: 337348.765
DELTA: 49°33'05.58"
DEG: 25°34'42.50"
L: 193.72'
T: 103.39'
R: 224.00'
PC STA: 496+63.28D2
PT STA: 498+57.01D2

STG2D1 PI #5
STA: 498+61.23D2
X: 561942.574
Y: 337353.482

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PLAN & PROFILE - D2-RAMP	SHEET 384 E

STG3B1
B3-RAMP

STG3B1 PI #1
STA: 503+00.00
X: 562437.214
Y: 336267.080

STG3B1PI # 2
PI STA: 505+53.49
X: 562686.926
Y: 336223.454
DELTA: 6°51'46.75"
DEG: 8°03'30.52"
L: 85.16'
T: 42.63'
R: 711.00'
PC STA: 505+10.86
PT STA: 505+96.03

STG3B1PI # 3
PI STA: 508+29.84
X: 562951.613
Y: 336143.677
DELTA: 17°49'10.47"
DEG: 4°48'53.18"
L: 370.10'
T: 186.56'
R: 1190.00'
PC STA: 506+43.28
PT STA: 510+13.39

STG3B1 PI #4
STA: 510+23.75
X: 563113.719
Y: 336031.879

STG3B1PI # 5
PI STA: 512+96.87
X: 563336.172
Y: 335873.417
DELTA: 6°35'58.28"
DEG: 1°15'16.75"
L: 526.00'
T: 263.29'
R: 4566.66'
PC STA: 510+33.58
PT STA: 515+59.58

STG3B1 PI #6
STA: 520+85.48
X: 563922.074
Y: 335344.692

N

B-RAMP
B2-RAMP
B3-RAMP
C2-RAMP
EB ENT. RAMP
IH 94 WB
IH 94 EB
R/W
SLOPE INTERCEPTS (TYP)
SIGN

VPOT STA 503+00.00
VPOT EL1038.70
-5.53 %
VPI STA 504+25.00
VPI EL1031.79
VCL 425.00
K = 53.50
FINISHED PROFILE
VPC STA 504+25.00
VPC EL1031.79
EXISTING PROFILE
VPI STA 506+37.50
VPI EL1014.41
VPT STA 508+50.00
VPT EL1013.92
+0.86 %
VPOT STA 509+00.00
VPOT EL1014.35
VPI STA 508+50.00
VPI EL1013.92

	503+00	503+50	504+00	504+50	505+00	505+50	506+00	506+50	507+00	507+50	508+00	508+50	509+00
EXISTING	1038.49	1036.10	1032.32	1028.55	1023.61	1018.59	1016.11	1013.79	1012.99	1012.36	1012.82	1013.93	1014.36
PROPOSED	1038.70	1035.94	1033.17	1029.80	1026.18	1023.03	1020.34	1018.12	1016.37	1015.09	1014.27	1013.92	1014.35

1040 1035 1030 1025 1020 1015 1010 1005

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PLAN & PROFILE - B3-RAMP	SHEET 385	E

FILE NAME : G:\STRAND\S100917\DGN\PLANPROF\TRAFFIC CONTROL\050118_3bpp.dgn PLOT DATE : 1/5/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 40

ALL POINTS IN THIS TABLE ARE REFERENCED FROM STAGE 1 'S1' WIDENING REFERENCE LINE

NAME	STATION	O/S	DESCRIPTION	LOCATION
1S11	31+15.57 S1	24.00' LT	BEGIN FULL WIDTH	STAGE 1 TEMP WIDENING LEFT EDGE PAVEMENT
1S12	41+18.47 S1	29.61' LT	BEGIN TAPER	STAGE 1 TEMP WIDENING LEFT EDGE PAVEMENT
1S13	42+16.60 S1	90.72' LT	50.' RAD. EXIST OFF-RAMP SW QUADRANT	STAGE 1 TEMP WIDENING LEFT EDGE PAVEMENT
1S14	42+86.53 S1	83.96' LT	MATCH POINT	STAGE 1 TEMP WIDENING LEFT EDGE PAVEMENT
1S15	43+34.87 S1	85.98' LT	50.' RAD. EXIST OFF-RAMP NW QUADRANT	STAGE 1 TEMP WIDENING LEFT EDGE PAVEMENT
1S16	44+16.36 S1	36.00' LT	BEGIN TAPER	STAGE 1 TEMP WIDENING LEFT EDGE PAVEMENT
1S17	45+71.83 S1	32.34' LT	END TAPER	STAGE 1 TEMP WIDENING LEFT EDGE PAVEMENT
1S18	45+73.43 S1	82.31' LT	50.' RAD. SW A-RAMP	STAGE 1 TEMP WIDENING LEFT EDGE PAVEMENT
1S19	46+88.34 S1	86.00' LT	50.' RAD A-RAMP	STAGE 1 TEMP WIDENING LEFT EDGE PAVEMENT
1S110	31+15.58 S1	0.00' RT	BEGIN FULL WIDTH	STAGE 1 TEMP WIDENING RIGHT EDGE PAVEMENT
1S111	39+66.27 S1	0.43' LT	PT OF CURVE	STAGE 1 TEMP WIDENING RIGHT EDGE PAVEMENT
1S112	41+15.84 S1	0.20' LT	TAPER POINT	STAGE 1 TEMP WIDENING RIGHT EDGE PAVEMENT
1S113	42+15.22 S1	61.81' RT	50.' RAD. PT, SE QUADRANT, WB ON-RAMP	STAGE 1 TEMP WIDENING RIGHT EDGE PAVEMENT
1S114	43+08.11 S1	32.36' RT	20.' RAD. PT, NE QUADRANT, WB ON-RAMP	STAGE 1 TEMP WIDENING RIGHT EDGE PAVEMENT
1S115	44+07.72 S1	0.00' LT	TAPER POINT	STAGE 1 TEMP WIDENING RIGHT EDGE PAVEMENT
1S116	45+25.16 S1	0.15' LT	TAPER POINT	STAGE 1 TEMP WIDENING RIGHT EDGE PAVEMENT
1S117	45+39.77 S1	62.73' RT	60' RAD. PT, SE QUADRANT B-RAMP	STAGE 1 TEMP WIDENING RIGHT EDGE PAVEMENT
1S118	46+85.58 S1	65.16' RT	60' RAD. PT, NE QUADRANT B-RAMP	STAGE 1 TEMP WIDENING RIGHT EDGE PAVEMENT

S1 PI # 1
STA: 27+63.87 S1
X: 561586.540
Y: 334534.327

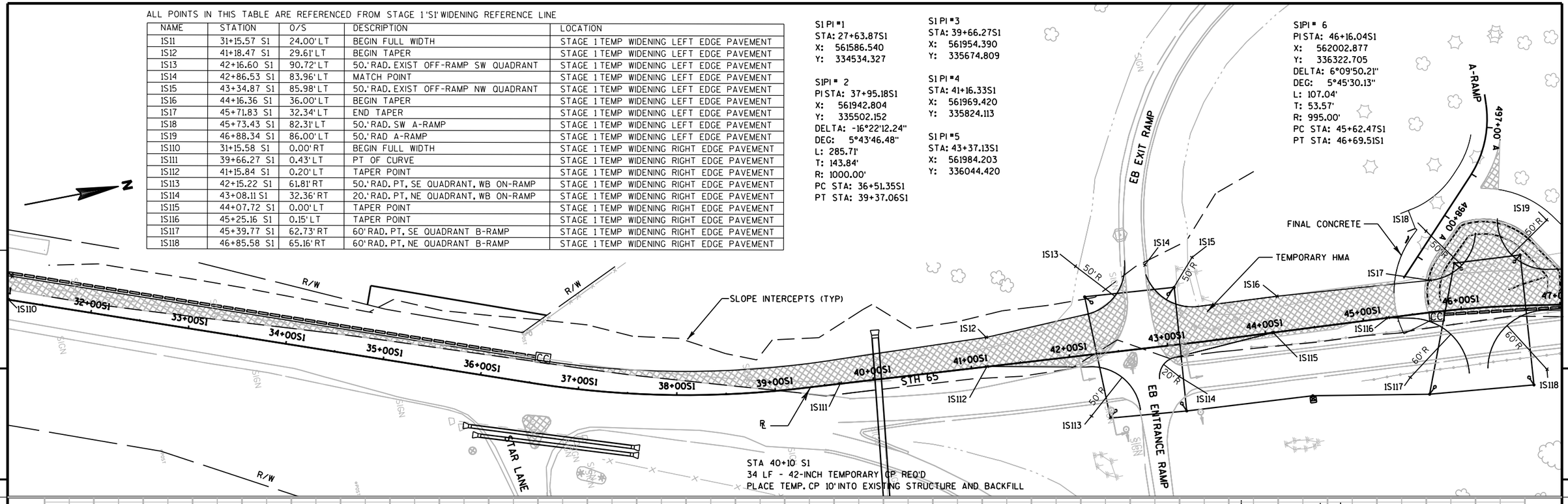
S1PI # 2
PI STA: 37+95.18 S1
X: 561942.804
Y: 335502.152
DELTA: -16°22'12.24"
DEG: 5°43'46.48"
L: 285.71'
T: 143.84'
R: 1000.00'
PC STA: 36+51.35 S1
PT STA: 39+37.06 S1

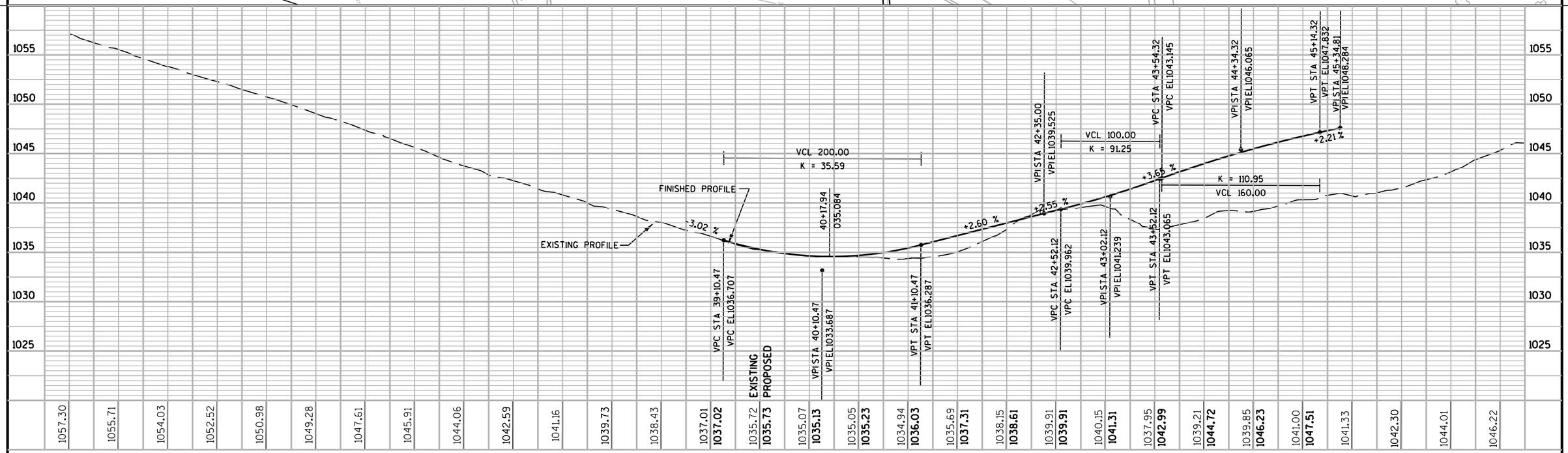
S1 PI # 3
STA: 39+66.27 S1
X: 561954.390
Y: 335674.809

S1 PI # 4
STA: 41+16.33 S1
X: 561969.420
Y: 335824.113

S1 PI # 5
STA: 43+37.13 S1
X: 561984.203
Y: 336044.420

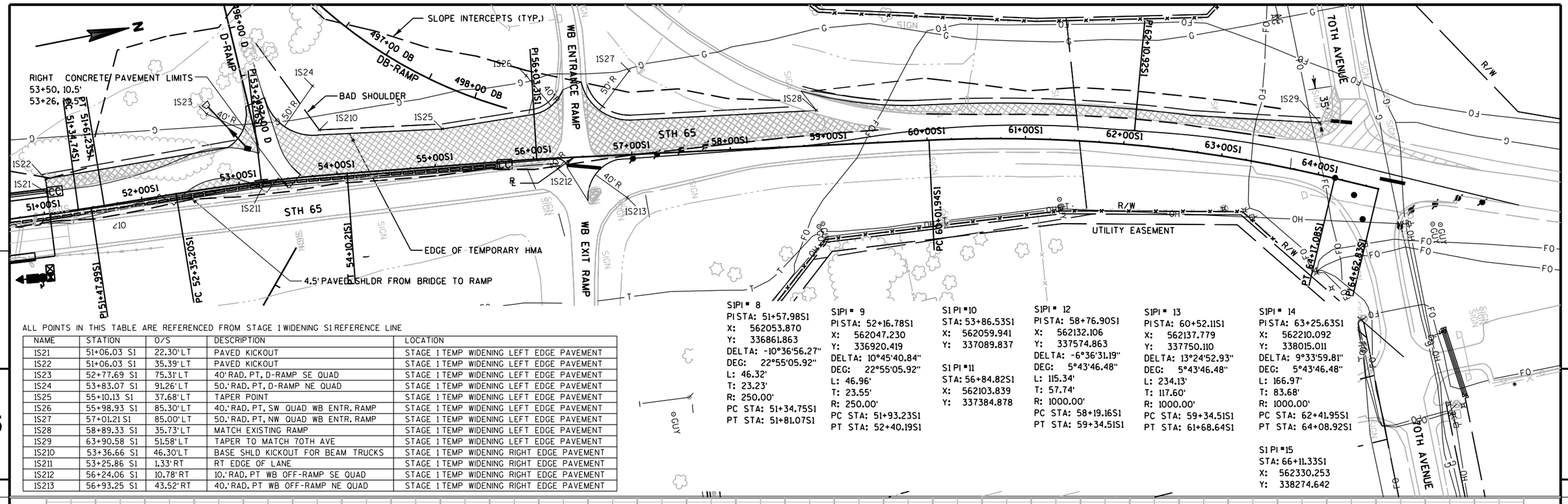
S1PI # 6
PI STA: 46+16.04 S1
X: 562002.877
Y: 336322.705
DELTA: 6°09'50.21"
DEG: 5°45'30.13"
L: 107.04'
T: 53.57'
R: 995.00'
PC STA: 45+62.47 S1
PT STA: 46+69.51 S1





PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PLAN AND PROFILE - STH 65 STAGE 1 TEMPORARY WIDENING	SHEET E

FILE NAME : G:\STRAND\S100917\DGN\PLANPROF\TRAFFIC CONTROL\050112_651pp.dgn PLOT DATE : 1/6/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :



ALL POINTS IN THIS TABLE ARE REFERENCED FROM STAGE 1 WIDENING S1 REFERENCE LINE

NAME	STATION	O/S	DESCRIPTION	LOCATION
IS21	51+06.03 S1	22.30'LT	PAVED KICKOUT	STAGE 1 TEMP WIDENING LEFT EDGE PAVEMENT
IS22	51+06.03 S1	35.39'LT	PAVED KICKOUT	STAGE 1 TEMP WIDENING LEFT EDGE PAVEMENT
IS23	52+77.69 S1	75.31'LT	40'RAD. PT, D-RAMP SE QUAD	STAGE 1 TEMP WIDENING LEFT EDGE PAVEMENT
IS24	53+83.07 S1	91.26'LT	50.'RAD. PT, D-RAMP NE QUAD	STAGE 1 TEMP WIDENING LEFT EDGE PAVEMENT
IS25	55+10.13 S1	37.68'LT	TAPER POINT	STAGE 1 TEMP WIDENING LEFT EDGE PAVEMENT
IS26	55+98.93 S1	85.30'LT	40.'RAD. PT, SW QUAD WB ENTR. RAMP	STAGE 1 TEMP WIDENING LEFT EDGE PAVEMENT
IS27	57+01.21 S1	85.00'LT	50.'RAD. PT, NW QUAD WB ENTR. RAMP	STAGE 1 TEMP WIDENING LEFT EDGE PAVEMENT
IS28	58+89.33 S1	35.73'LT	MATCH EXISTING RAMP	STAGE 1 TEMP WIDENING LEFT EDGE PAVEMENT
IS29	63+90.58 S1	51.58'LT	TAPER TO MATCH 70TH AVE	STAGE 1 TEMP WIDENING LEFT EDGE PAVEMENT
IS210	53+36.66 S1	46.30'LT	BASE SHLD KICKOUT FOR BEAM TRUCKS	STAGE 1 TEMP WIDENING RIGHT EDGE PAVEMENT
IS211	53+25.86 S1	1.33'RT	RT EDGE OF LANE	STAGE 1 TEMP WIDENING RIGHT EDGE PAVEMENT
IS212	56+24.06 S1	10.78'RT	10.'RAD. PT WB OFF-RAMP SE QUAD	STAGE 1 TEMP WIDENING RIGHT EDGE PAVEMENT
IS213	56+93.25 S1	43.52'RT	40.'RAD. PT WB OFF-RAMP NE QUAD	STAGE 1 TEMP WIDENING RIGHT EDGE PAVEMENT

S1PI = 8
PI STA: 51+57.98S1
X: 562053.870
Y: 336861.863
DELTA: -10°36'56.27"
DEG: 22°55'05.92"
L: 46.32'
T: 23.23'
R: 250.00'
PC STA: 51+34.75S1
PT STA: 51+81.07S1

S1PI = 9
PI STA: 52+16.78S1
X: 562047.230
Y: 336920.419
DELTA: 10°45'40.84"
DEG: 22°55'05.92"
L: 46.96'
T: 23.55'
R: 250.00'
PC STA: 51+93.23S1
PT STA: 52+40.19S1

S1PI = 10
STA: 53+86.53S1
X: 562059.941
Y: 337089.837

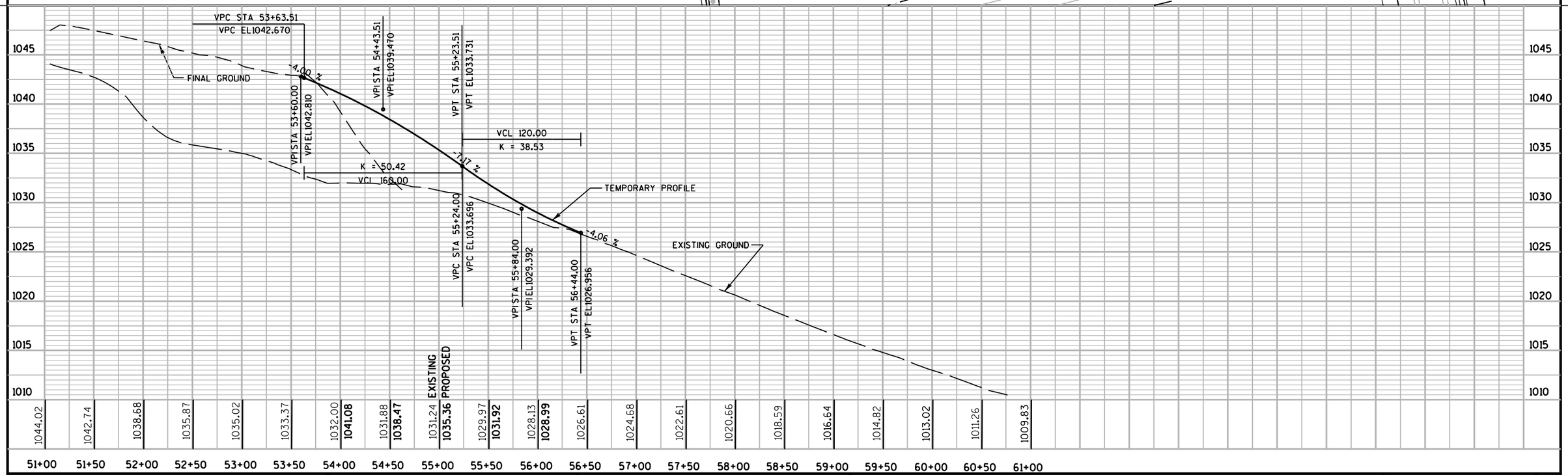
S1PI = 11
STA: 56+84.82S1
X: 562103.839
Y: 337384.878

S1PI = 12
PI STA: 58+76.90S1
X: 562132.106
Y: 337574.863
DELTA: -6°36'31.19"
DEG: 5°43'46.48"
L: 115.34'
T: 57.74'
R: 1000.00'
PC STA: 58+19.16S1
PT STA: 59+34.51S1

S1PI = 13
PI STA: 60+52.11S1
X: 562137.779
Y: 337750.110
DELTA: 13°24'52.93"
DEG: 5°43'46.48"
L: 234.13'
T: 117.60'
R: 1000.00'
PC STA: 59+34.51S1
PT STA: 61+68.64S1

S1PI = 14
PI STA: 63+25.63S1
X: 562210.092
Y: 338015.011
DELTA: 9°33'59.81"
DEG: 5°43'46.48"
L: 166.97'
T: 83.68'
R: 1000.00'
PC STA: 62+41.95S1
PT STA: 64+08.92S1

S1PI = 15
STA: 66+11.33S1
X: 562330.253
Y: 338274.642



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PLAN AND PROFILE - STH 65 STAGE 1 TEMPORARY WIDENING	SHEET 387	E

'S2' PI #1
STA: 28+27.10S2
X: 561613.648
Y: 334592.611

'S2' PI #2
STA: 31+15.05S2
X: 561728.621
Y: 334856.613

'S2'PI # 3
PI STA: 38+70.44S2
X: 561995.335
Y: 335563.354
DELTA: -16°52'43.67"
DEG: 4°21'49.43"
L: 386.80'
T: 194.81'
R: 1313.00'
PC STA: 36+75.63S2
PT STA: 40+62.43S2

N

R/W

PI 28+27.10S2

29+00S2 30+00S2 31+00S2 32+00S2 33+00S2 34+00S2 35+00S2 36+00S2 37+00S2 38+00S2 39+00S2 40+00S2 41+00S2 42+00S2 43+00

PC 36+75.63S2

PT 40+67.28S2

PI 38+71.81S2

1A TEMP WIDENING

3' BAD SHOULDER

FINAL NB EDGE OF CONC.

SLOPE INTERCEPTS (TYP)

MATCH EDGE OF NB STH 65 CONCRETE PAVEMENT

1053.87	1052.38	1050.86	1049.43	1048.18	1047.23	1046.54	1046.10	1045.34	1044.66	1044.08	1043.60	1043.23	1042.94	1042.76	1043.22	1043.50	1043.48	1044.32
33+00	33+50	34+00	34+50	35+00	35+50	36+00	36+50	37+00	37+50	38+00	38+50	39+00	39+50	40+00	40+50	41+00	41+50	42+00	42+50

1060 1055 1050 1045 1040 1035 1030

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PLAN & PROFILE - STH 65 STAGE 2 TEMPORARY WIDENING	SHEET E

FILE NAME : G:\STRAND\S100917\DGN\PLANPROF\TRAFFIC CONTROL\050114_65-2pp.DGN PLOT DATE : 1/5/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 40

S2 PI #3
STA: 51+33.27S2
X: 562076.260
Y: 336826.140

A-RAMP

+12'A',15' LT

+50'A',31.5' LT

STAGE 1A WIDENING

FINISHED CONCRETE PAVEMENT

EB-OFF RAMP

65 ℄

45+00S

46+00S

47+00S

48+00S

49+00S

49+00S2

48+00S2

47+00S2

46+00S2

45+00S2

44+00S

43+00S

43+00S2

44+00S2

16.5' LT

18.16.5' LT

PI 51+33.27S2

50+00S2

51+00S2

S2 ℄

+50B, 32' LT

20. 28.5' RT

+00. 16.5' RT

SLOPE INTERCEPTS (TYP)

5" TEMPORARY ASPHALT PAVEMENT
OVER 12-INCHES- 1¼" BASE COURSE
SLOPE TO DRAIN AND MATCH CONC. PVMT

B-RAMP

+50B, 0' RT

SIGN

5

5

1060
1055
1050
1045
1040
1035
1030

FINISHED PAVEMENT

VPI STA 45+54.54
VPI EL 1048.54

+1.18 %

FINISHED PROFILE

VPOT STA 43+11.05
VPOT EL 1045.67

1044.32 1045.42 1045.89 1046.13 1043.85 1046.72 1047.31 1047.90 1048.52 1048.49 1049.03 1050.13 1050.68 1051.19 1051.46

42+50 43+00 43+50 44+00 44+50 45+00 45+50 46+00 46+50 47+00 47+50 48+00

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PLAN & PROFILE - STH 65 STAGE 3F TEMPORARY WIDENING	SHEET	E

FILE NAME : G:\STRAND\S100917\DGN\PLANPROF\TRAFFIC CONTROL\050115_65-2pp.DGN PLOT DATE : 1/5/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

S2 PI #5
STA: 56+44.25S2
X: 562161.480
Y: 337317.980

S2PI # 6
PI STA: 60+66.62S2
X: 562148.565
Y: 337740.155
DELTA: 19°21'42.66"
DEG: 2°22'28.06"
L: 815.42'
T: 411.63'
R: 2413.00'
PC STA: 56+54.99S2
PT STA: 64+70.41S2

S2 PI #7
STA: 67+17.38S2
X: 562347.813
Y: 338367.897

N

499+00 DB

FINISHED NB CONCRETE
TEMPORARY HMA PAVEMENT
EXISTING EDGE PAVEMENT
TEMPORARY HMA PAVEMENT
5'BAD SHOULDER
SLOPE INTERCEPTS (TYP)
S2 ℄
12'

57+00S2 58+00S2 59+00S2 60+00S2 61+00S2 62+00S2 63+00S2 64+00S2 65+00S2 66+00S2 67+00S2

MATCH EDGE OF NB CONC PAVEMENT

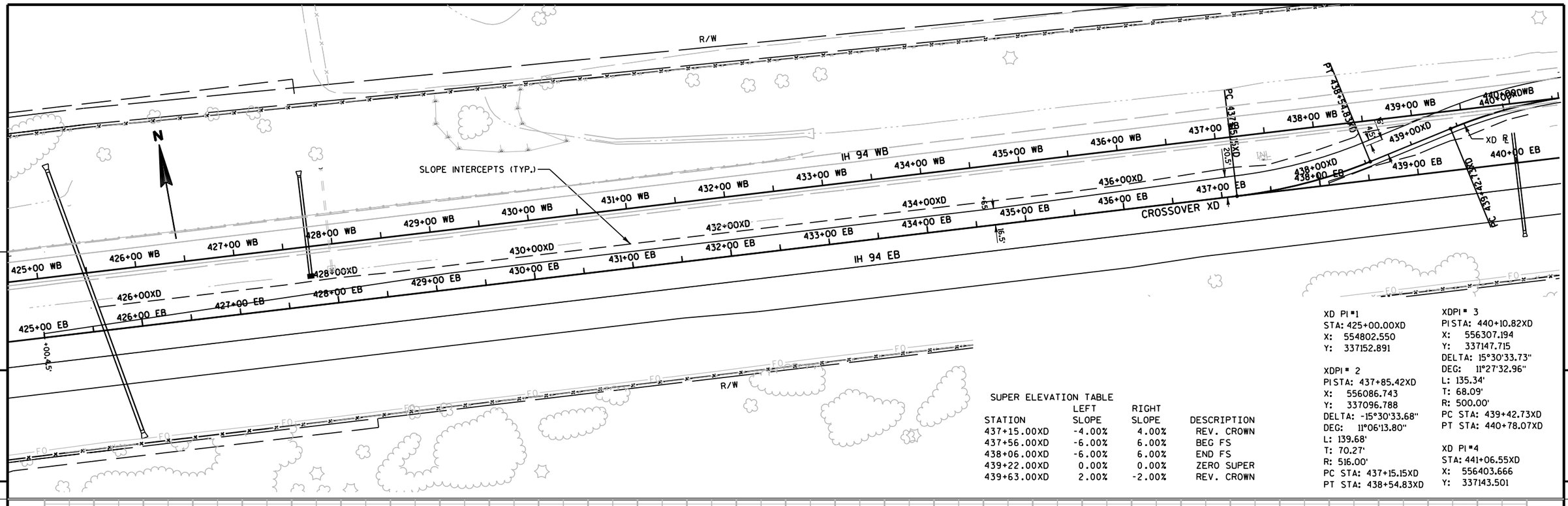
1035 1030 1025 1020 1015 1010 1005 1000

1030.36 1028.08 1025.80 1023.49 1021.13 1018.85 1016.57 1014.28 1012.00 1009.76 1007.72 1005.87 1004.35 1003.03 1002.00

57+00 57+50 58+00 58+50 59+00 59+50 60+00 60+50 61+00 61+50 62+00 62+50 63+00 63+50 64+00

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PLAN & PROFILE - STH 65 STAGE 3F TEMPORARY WIDENING	SHEET 390	E

FILE NAME : G:\STRAND\S100917\DGN\PLANPROF\TRAFFIC CONTROL\050116_65-2pp.DGN PLOT DATE : 1/5/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :



SUPER ELEVATION TABLE

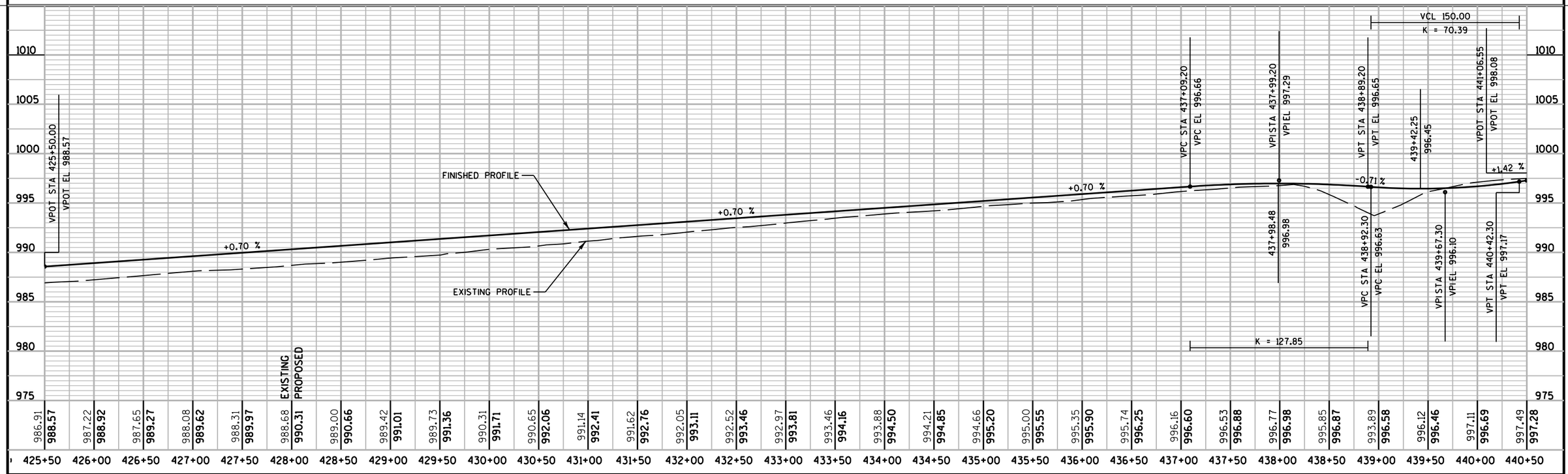
STATION	LEFT SLOPE	RIGHT SLOPE	DESCRIPTION
437+15.00XD	-4.00%	4.00%	REV. CROWN
437+56.00XD	-6.00%	6.00%	BEG FS
438+06.00XD	-6.00%	6.00%	END FS
439+22.00XD	0.00%	0.00%	ZERO SUPER
439+63.00XD	2.00%	-2.00%	REV. CROWN

XD PI=1
STA: 425+00.00XD
X: 554802.550
Y: 337152.891

XDPI= 2
PISTA: 437+85.42XD
X: 556086.743
Y: 337096.788
DELTA: -15°30'33.68"
DEG: 11°06'13.80"
L: 139.68'
T: 70.27'
R: 516.00'
PC STA: 437+15.15XD
PT STA: 438+54.83XD

XDPI= 3
PISTA: 440+10.82XD
X: 556307.194
Y: 337147.715
DELTA: 15°30'33.73"
DEG: 11°27'32.96"
L: 135.34'
T: 68.09'
R: 500.00'
PC STA: 439+42.73XD
PT STA: 440+78.07XD

XD PI=4
STA: 441+06.55XD
X: 556403.666
Y: 337143.501



PROJECT NO:1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	PLAN & PROFILE - CROSSOVER XD	SHEET 391	E

FILE NAME : G:\STRAND\S100917\DGN\PLANPROF\TRAFFIC CONTROL\050117_XDPP .DGN PLOT DATE : 1/5/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 40

Standard Detail Drawing List

08A5-16A	INLET COVERS TYPE A, H, A-S, & H-S
08A5-16B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A5-17C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08A5-17D	INLET COVER, TYPE Z MANHOLE COVERS, TYPE K, J, J-S, J-H, J-H-S, L & M
08B6-4	MANHOLES TYPE 1
08C1-5	INLETS TYPE 1, 2, 3 & 4
08C5-2	INLETS TYPE 8, 9, 10, AND 11
08D1-17	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D4-5	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D5-14A	CURB RAMPS TYPES 1 AND 1-A
08D5-14B	CURB RAMPS TYPES 2 AND 3
08D5-14C	CURB RAMPS TYPE 4A
08D5-14D	CURB RAMPS TYPE 4B
08D5-14E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08E8-3	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E9-6	SILT FENCE
08E10-2	INLET PROTECTION TYPE A, B, C AND D
08F1-11	APRON ENDWALLS FOR CULVERT PIPE
08F2-1	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F4-6	JOINT TIES FOR CONCRETE PIPE
08F10-1	CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH
09B2-7	CONDUIT
09B4-9	PULL BOX
09C2-6	CONCRETE BASES, TYPES 1, 2 & 5
09C3-3	TRANSFORMER/PEDESTAL BASES
09C5-7	CONCRETE CONTROL CABINET BASES
09C6-5	CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL
09C7-4	CONCRETE BASE, TYPE 6
09D1-4	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09D2-2	SIGNAL OR LIGHTING CONTROL CABINET
09D3-2	POST MOUNTED CONTROLLER SERVICE INSTALLATION
09E1-11D	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)
09E1-11E	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 6 (35 FEET)
09E1-11G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E3-4	NON-FREEWAY LIGHTING UNIT POLE WIRING
09E7-5	TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS
09G1-3A	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G1-3B	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G1-3C	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G1-3D	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G1-3E	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G1-3F	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G1-3G	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
11A1-4	MAINTENANCE CROSSOVER FOR FREEWAYS
11B2-2	CONCRETE MEDIAN NOSE
12A3-10	NAME PLATE (STRUCTURES)
12A4-1	STRUCTURE IDENTIFICATION PLAQUES, SIGN BRIDGES & OVERHEAD SIGN SUPPORT
13A5-4A	SHOULDER RUMBLE STRIP, MILLING
13A5-4B	SHOULDER RUMBLE STRIP, MILLING
13B2-6	CONCRETE PAVEMENT APPROACH SLAB
13C1-15	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C11-10A	RURAL DOWELED CONCRETE PAVEMENT
13C11-10B	RURAL DOWELED CONCRETE PAVEMENT
13C16-1	CONCRETE JOINT DETAIL FOR TEE INTERSECTION BYPASS LANE AND RIGHT TURN LANE
13C17-1A	CONCRETE JOINT DETAIL FOR EXIT RAMP TERMINI
13C17-1B	CONCRETE JOINT DETAIL FOR ENTRANCE RAMP TERMINI
13C18-1A	CONCRETE PAVEMENT JOINTING
13C18-1B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-1C	CONCRETE PAVEMENT JOINT TIES
13C18-1D	CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES
13C18-1E	CONCRETE PAVEMENT JOINTING AND STEEL REINFORCEMENT IN ROUNDABOUTS
14B7-12A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B7-12B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B7-12C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B7-12D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B15-7A	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-7B	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-7C	STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

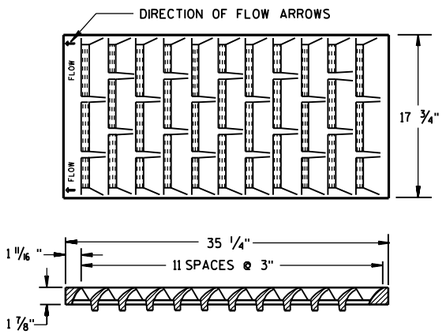
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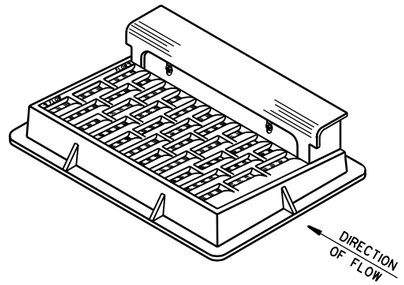
Standard Detail Drawing List

14B24-7A	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-7B	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-7C	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B26-2A	STEEL THRIE BEAM BULLNOSE TERMINAL
14B26-2B	STEEL THRIE BEAM BULLNOSE TERMINAL
14B26-2C	STEEL THRIE BEAM BULLNOSE TERMINAL
14B26-2D	STEEL THRIE BEAM BULLNOSE TERMINAL
14B26-2E	STEEL THRIE BEAM BULLNOSE TERMINAL
14B28-1	GUARDRAIL MOW STRIP
14B42-2A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-2B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-2C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-1A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-1B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-1C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-1A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-1B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-1C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-1D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15A2-7	DELINEATOR POST, DELINEATOR BRACKET AND DELINEATOR
15A3-1	MARKER POSTS, FLEXIBLE, FOR CULVERT END
15A4-1	FLEXIBLE DELINEATOR POST
15A6-2	DELINEATOR LAYOUT
15B1-8A	FENCE WOVEN WIRE
15B1-8B	FENCE WOVEN WIRE
15C2-4A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C2-4B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C3-1	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C4-1	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C7-12A	PAVEMENT MARKING SYMBOLS
15C7-12B	PAVEMENT MARKING WORDS
15C7-12C	PAVEMENT MARKING ARROWS
15C7-12D	ROUNDABOUT ARROWS
15C8-14A	PAVEMENT MARKING (MAINLINE)
15C8-14E	PAVEMENT MARKING (LEFT TURN LANE)
15C8-14F	PAVEMENT MARKING (ISLANDS, STOP LINE & CROSS WALK)
15C11-5	FLEXIBLE TUBULAR MARKER POST, ANCHOR & BASES
15C12-3	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C15-3	36" DIAMETER FULL SPAN OVERHEAD SIGN SUPPORT BASE
15C18-3	MEDIAN ISLAND MARKING
15C27-1	DOUBLE ARROW WARNING SIGN PLACEMENT
15C31-1A	PAVEMENT MARKING (RAMPS AND GORES)
15D3-1	TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. WITH BARRIER
15D4-1	TRAFFIC CONTROL, RAMP CONSTRUCTION STAGING
15D7-3	TRAFFIC CONTROL, TEMPORARY EXIT RAMP CROSSOVER
15D8-3	TRAFFIC CONTROL, TEMPORARY ENTRANCE RAMP CROSSOVER
15D11-3	TRAFFIC CONTROL, SINGLE LANE CROSSOVER
15D12-2	TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
15D15-1	TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE
15D16-1	TRAFFIC CONTROL, EXIT RAMP CLOSURE
15D20-1	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D27-1	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D28-1	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D29-2	TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD

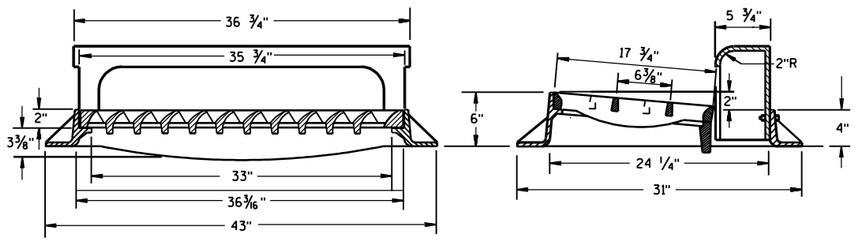
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NOTE:
GRATE IS REVERSIBLE.





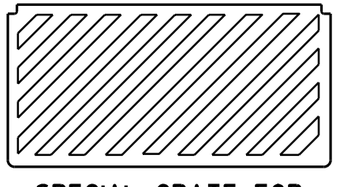
NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"



TYPE "H"

(APPROXIMATE WEIGHT 422 LBS.)
FRAME..... 175 LBS.
GRATE..... 138 LBS.
CURB BOX..... 109 LBS.

1 1/8" DIAGONAL BARS WITH 1 5/8" OPENINGS



SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")
(APPROXIMATE WEIGHT 172 LBS.)
GRATE..... 172 LBS.

(NOTED AS TYPE H-S ON DRAINAGE TABLE)

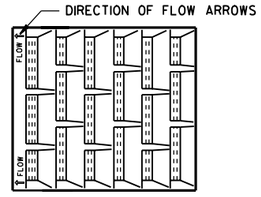
GENERAL NOTES

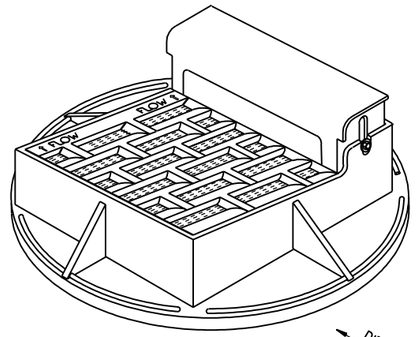
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

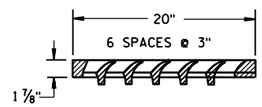
THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.

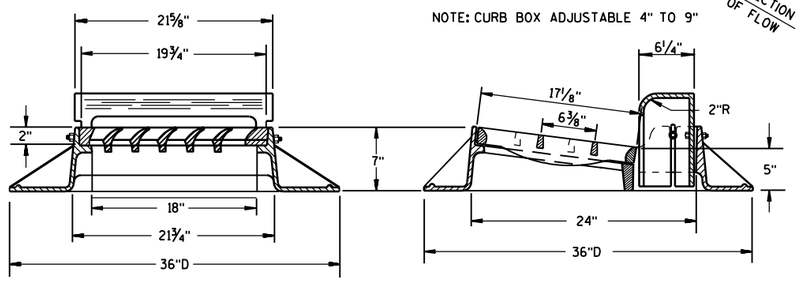




NOTE: CURB BOX ADJUSTABLE 4" TO 9"

NOTE:
GRATE IS REVERSIBLE.

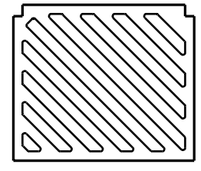




TYPE "A"

(APPROXIMATE WEIGHT 325 LBS.)
FRAME..... 157 LBS.
GRATE..... 84 LBS.
CURB BOX..... 84 LBS.

1" DIAGONAL BARS WITH 1 1/2" OPENINGS



SPECIAL GRATE FOR TYPE "A" COVER

(MEASURES 19 3/4" X 17" X 1 7/8"
GRATE..... 84 LBS.

(NOTED AS TYPE A-S ON DRAINAGE TABLE)

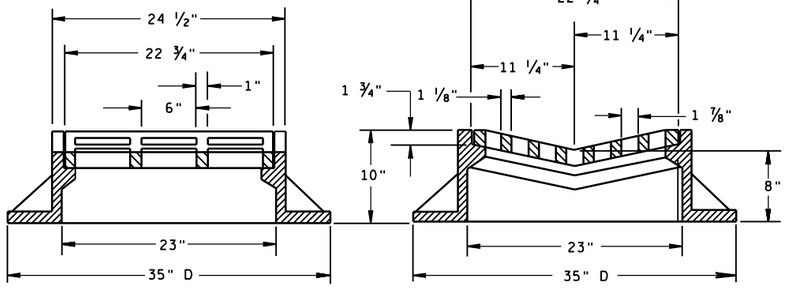
INLET COVERS
TYPE A, H, A-S, & H-S

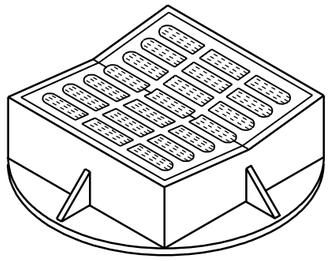
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/4/99
DATE
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

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S.D.D. 8 A 5-16a

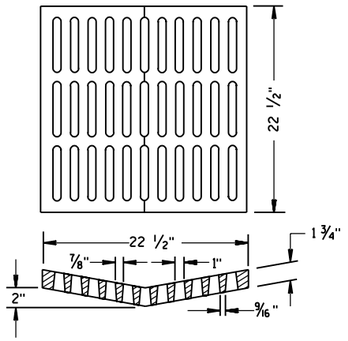




TYPE "B"

(APPROXIMATE WEIGHT 395 LBS.)

FRAME..... 285 LBS.
GRATE..... 110 LBS.

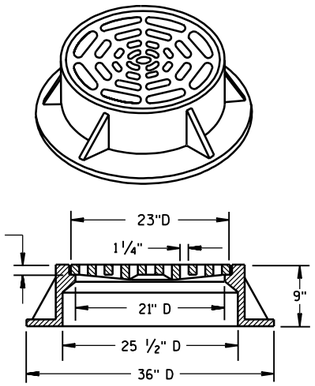


ALTERNATIVE GRATE FOR TYPE "B" COVER

(APPROXIMATE GRATE WEIGHT 125 LBS.)
GRATE.....125 LBS.

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.

NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

(APPROXIMATE WEIGHT 340 LBS.)

FRAME..... 235 LBS.
GRATE..... 105 LBS.

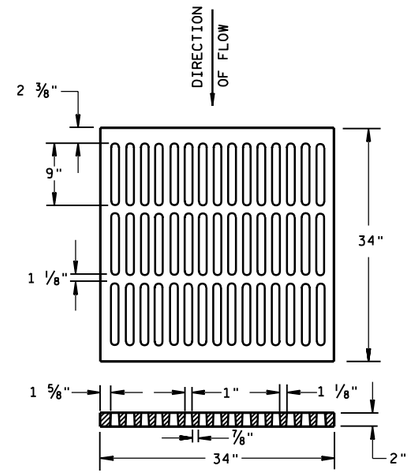
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.

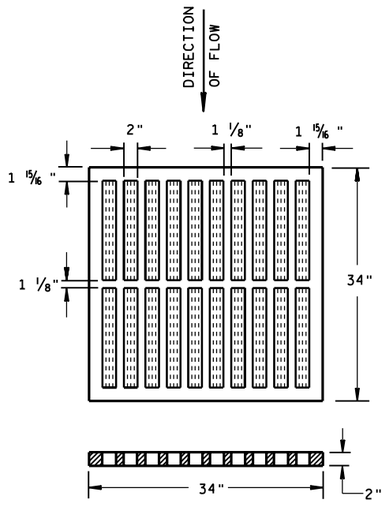


ALTERNATIVE TYPE "MS"

(APPROXIMATE GRATE WEIGHT 365 LBS.)
GRATE.....365 LBS.

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED

NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

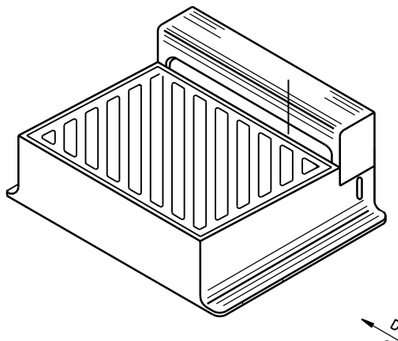


TYPE "MS"

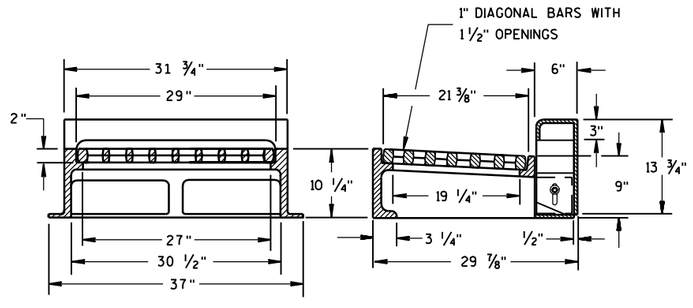
(APPROXIMATE GRATE WEIGHT 270 LBS.)
GRATE.....270 LBS.

USE ON FREEWAYS AND EXPRESSWAYS

NOTED AS TYPE MS ON DRAINAGE TABLE



DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

(APPROXIMATE WEIGHT 670 LBS.)

FRAME..... 360 LBS.
GRATE..... 160 LBS.
CURB BOX..... 150 LBS.

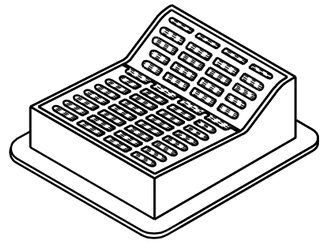
INLET COVERS
TYPE B, B-A, C, MS, MS-A, & WM

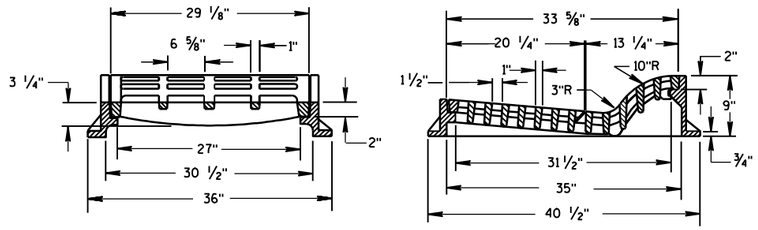
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/4/99
DATE
FHWA

CHIEF ROADWAY DEVELOPMENT ENGINEER

S.D.D. 8 A 5-16b

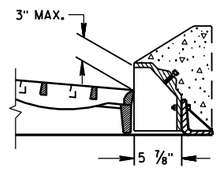




TYPE "F"

(APPROXIMATE WEIGHT 645 LBS.)
FRAME.....300 LBS.
GRATE.....165 LBS.
GRATE.....180 LBS.

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

(APPROXIMATE WEIGHT 79 LBS.)
CURB BOX.....79 LBS.

USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

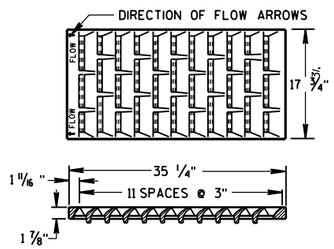
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

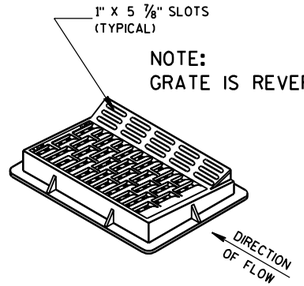
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

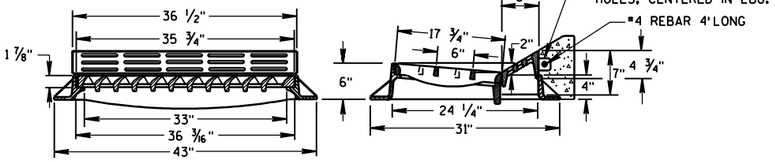
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.





NOTE:
GRATE IS REVERSIBLE.

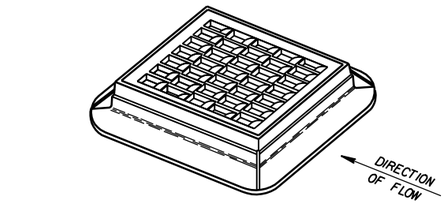


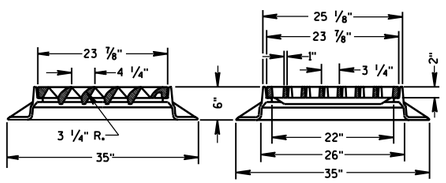
TYPE "HM"

(APPROXIMATE WEIGHT 375 LBS.)
FRAME.....175 LBS.
GRATE.....138 LBS.
CURB BOX..... 62 LBS.

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

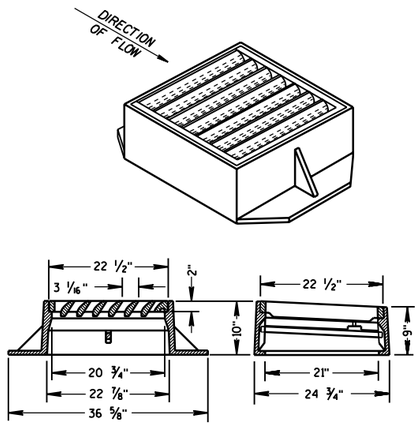
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE





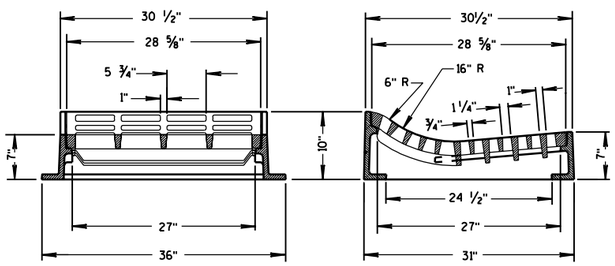
TYPE "S"

(APPROXIMATE WEIGHT 334 LBS.)
FRAME.....165 LBS.
GRATE.....169 LBS.



TYPE "V"

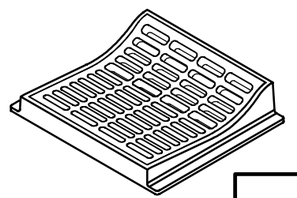
(APPROXIMATE WEIGHT 405 LBS.)
FRAME.....270 LBS.
GRATE.....130 LBS.
SAFETY BAR..... 5 LBS.



TYPE "T"

(APPROXIMATE WEIGHT 530 LBS.)
FRAME.....270 LBS.
GRATE.....260 LBS.

USE WITH TYPES R & T CONCRETE CURB & GUTTER, 30 INCH.



INLET COVERS
TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

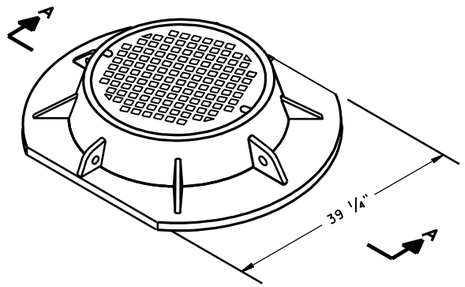
APPROVED
12/17/07
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

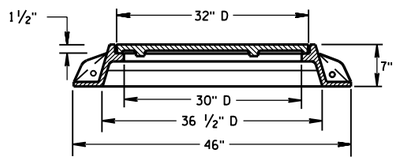
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S.D.D. 8 A 5-17c

6

S.D.D. 8 A 5-17c



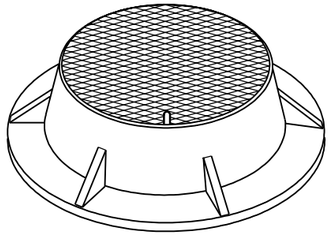


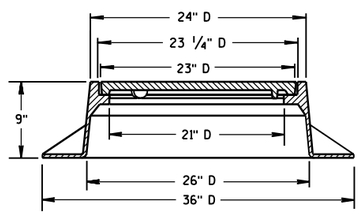
SECTION A-A

TYPE "K"

(APPROXIMATE WEIGHT 415 LBS.)

FRAME.....210 LBS.
LID.....205 LBS.

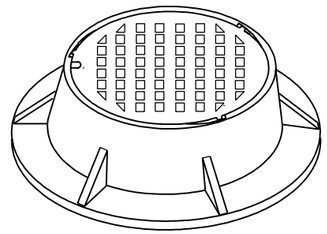


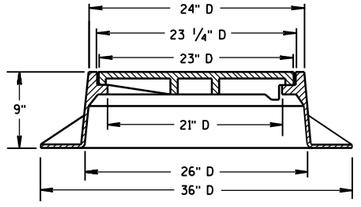


TYPE "J"

(APPROXIMATE WEIGHT 250 LBS.)

FRAME.....135 LBS.
LID.....115 LBS.





TYPE "J" SPECIAL

TYPE "B" NON-ROCKING SELF-SEAL LID

(APPROXIMATE WEIGHT 245 LBS.)

FRAME.....145 LBS.
LID.....100 LBS.

(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)

GENERAL NOTES

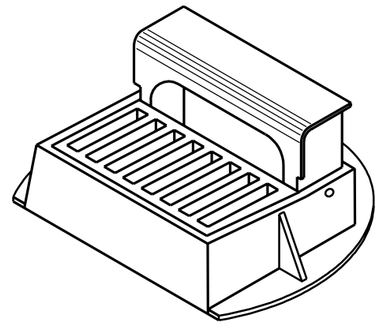
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

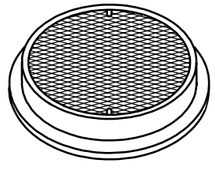
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

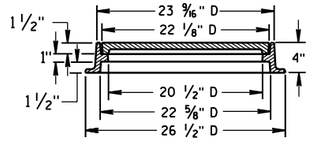
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.

(1) MANUFACTURER MAY PROVIDE ADDITIONAL SEALS OR GASKETS.



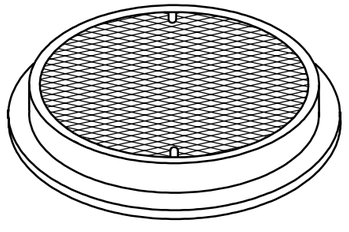


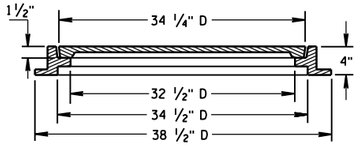


TYPE "L"

(APPROXIMATE WEIGHT 145 LBS.)

FRAME.....75"
LID.....70"

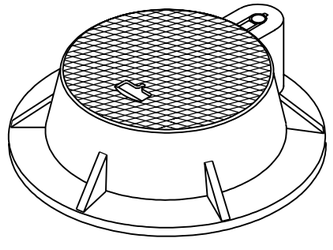


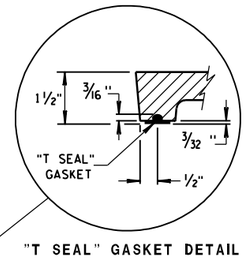


TYPE "M"

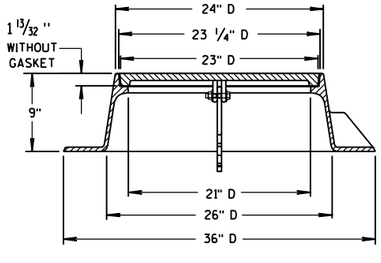
(APPROXIMATE WEIGHT 385 LBS.)

FRAME..... 125"
LID..... 260"





"T SEAL" GASKET DETAIL



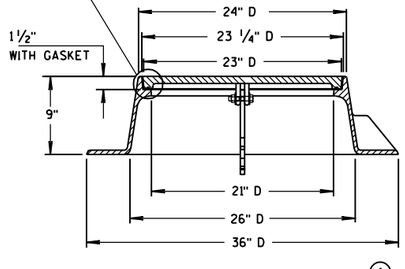
TYPE "J" HINGED

LID WITHOUT "T SEAL" GASKET

(APPROXIMATE WEIGHT 310 LBS.)

FRAME.....190 LBS.
LID.....120 LBS.

(NOTED AS TYPE J-H ON THE DRAINAGE TABLE)



TYPE "J" HINGED-SPECIAL (1)

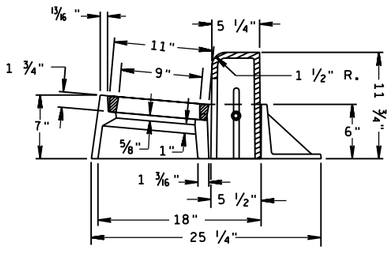
LID WITH "T SEAL" GASKET

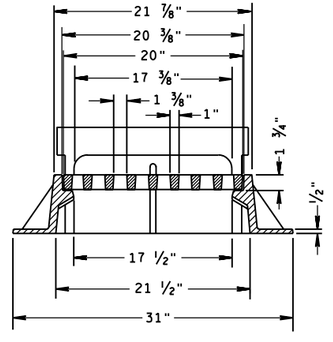
(APPROXIMATE WEIGHT 310 LBS.)

FRAME.....190 LBS.
LID.....120 LBS.

(NOTED AS TYPE J-S-H ON THE DRAINAGE TABLE)

CURB BOX ADJUSTABLE 4" TO 10"





INLET COVER TYPE "Z"

(APPROXIMATE WEIGHT 340 LBS.)

FRAME..... 198 LBS.
GRATE..... 50 LBS.
CURB BOX..... 92 LBS.

INLET COVER, TYPE Z
MANHOLE COVERS, TYPE
K, J, J-S, J-H, J-H-S, L & M

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-29-05
DATE
FHWA

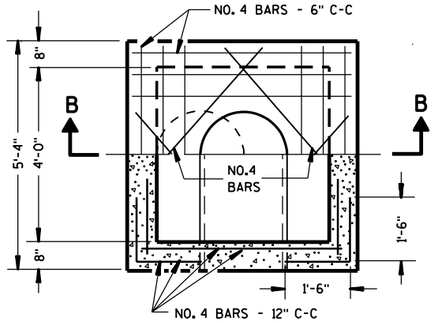
CHIEF ROADWAY DEVELOPMENT ENGINEER

6

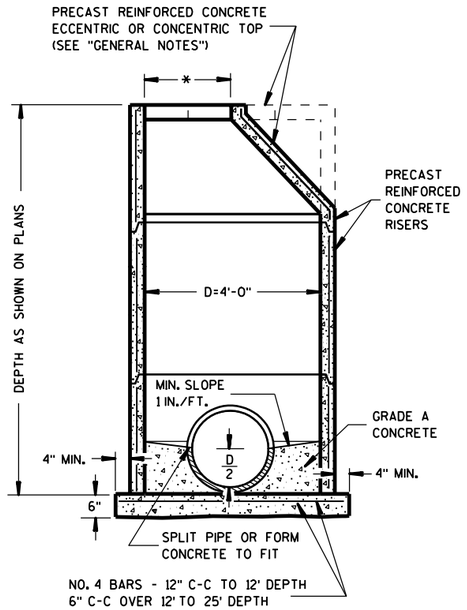
S.D.D. 8 A 5-17d

6

S.D.D. 8 A 5-17d



HALF SECTION A-A



PRECAST REINFORCED CONCRETE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 1-C", "CATCH BASINS 1-B", "INLETS 3-H", ETC. THE FIRST DIGIT DESIGNATES THE MASONRY PORTION OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) MAY BE USED ON CONCRETE BLOCK STRUCTURES. THE CONE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS CONFORMING TO AASHTO M 199 SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH.

SOLID ALUMINUM STEPS SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 0.75 INCH. ALUMINUM SURFACES TO BE EMBEDDED IN CONCRETE SHALL BE GIVEN ONE COAT OF SUITABLE QUALITY PAINT, SUCH AS ZINC CHROMATE PRIMER CONFORMING TO FEDERAL SPECIFICATION TT-P-645 OR EQUIVALENT.

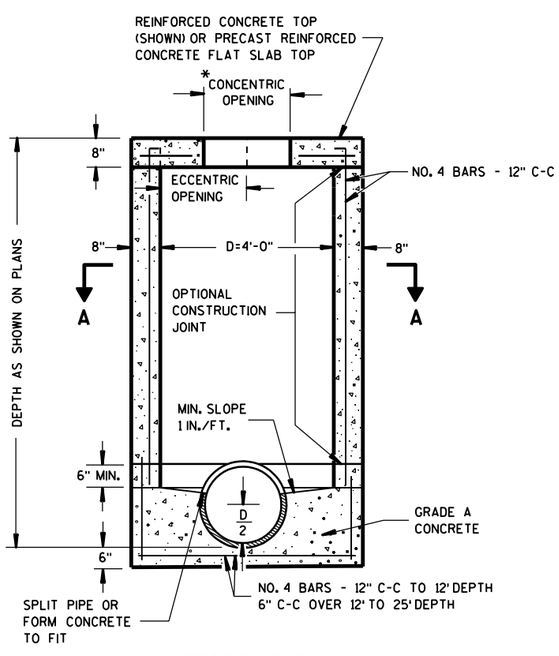
ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED CONCRETE RISERS MAY BE PLACED WITH TONGUE UP OR DOWN.

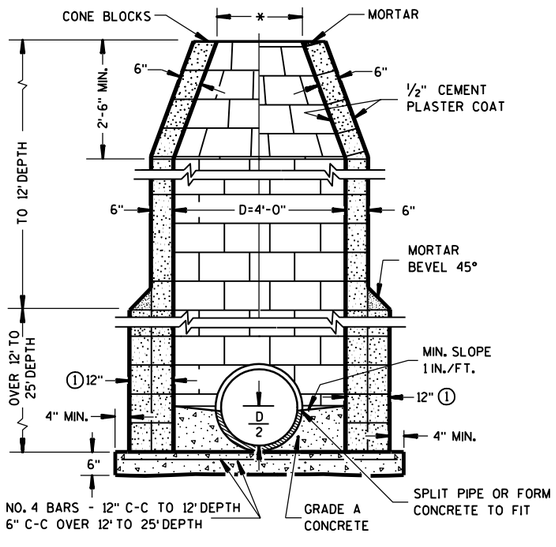
ALL PRECAST INLET UNITS AND MANHOLES SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

* USE 2'-0" DIAMETER OPENING WITH TYPE "C", "L" AND "J" COVERS, OR 3'-0" DIAMETER WITH TYPE "K" AND "M" COVERS.

① 2 COURSES 6" BLOCK.



SECTION B-B
REINFORCED CONCRETE



CONCRETE BLOCK

MANHOLES TYPE 1

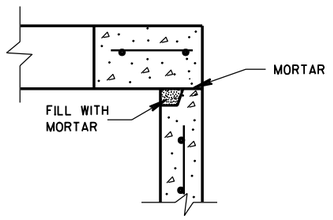
MANHOLES TYPE 1	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 9/9/05 DATE FHWA	/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

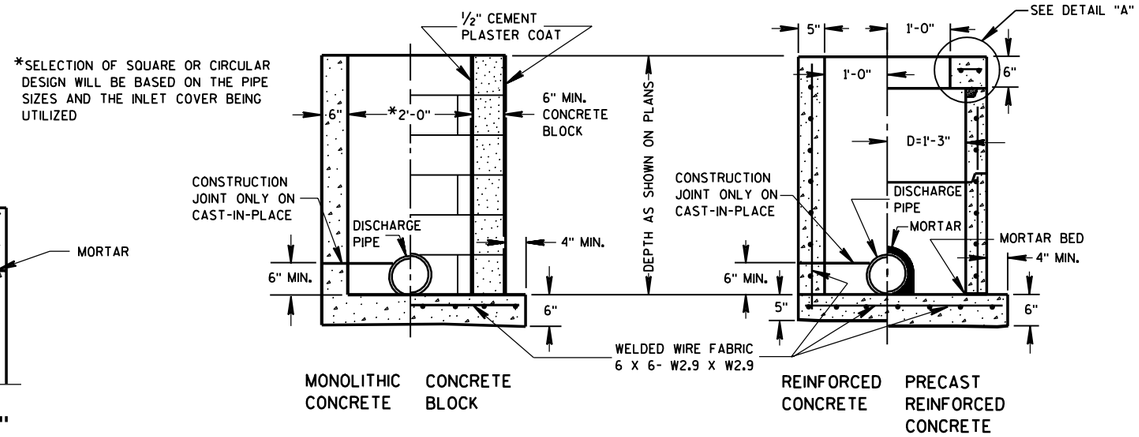
S.D.D. 8 B 6-4

6

S.D.D. 8 B 6-4



DETAIL "A"



INLETS TYPE 1

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 1-C", "CATCH BASINS 1-B", "INLETS 3-H", ETC. THE FIRST DIGIT DESIGNATES THE MASONRY PORTION OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

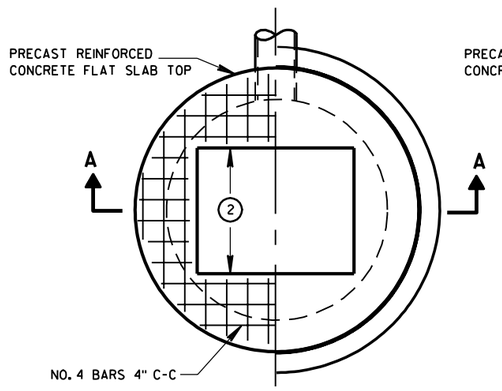
PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON THE STRUCTURES. THE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

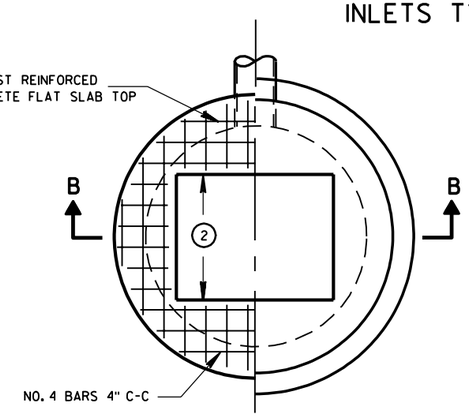
PRECAST REINFORCED CONCRETE RISERS SHALL BE PLACED WITH TONGUE DOWN.

(1) USE 2'-6" OPENING FOR TYPE 2 INLETS, 3'-0" OPENING FOR TYPE 3 INLETS, AND 2'-11" FOR TYPE 4 INLETS.

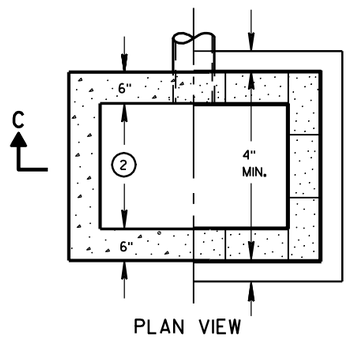
(2) USE 2'-0" OPENING FOR TYPE 1, 2 & 3 INLETS, 2'-6½" OPENING FOR TYPE 4 INLETS.



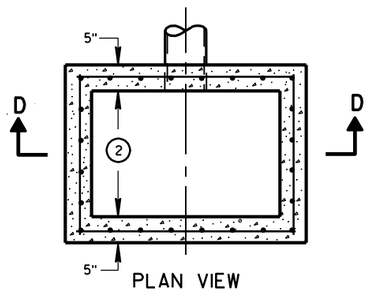
PLAN VIEW



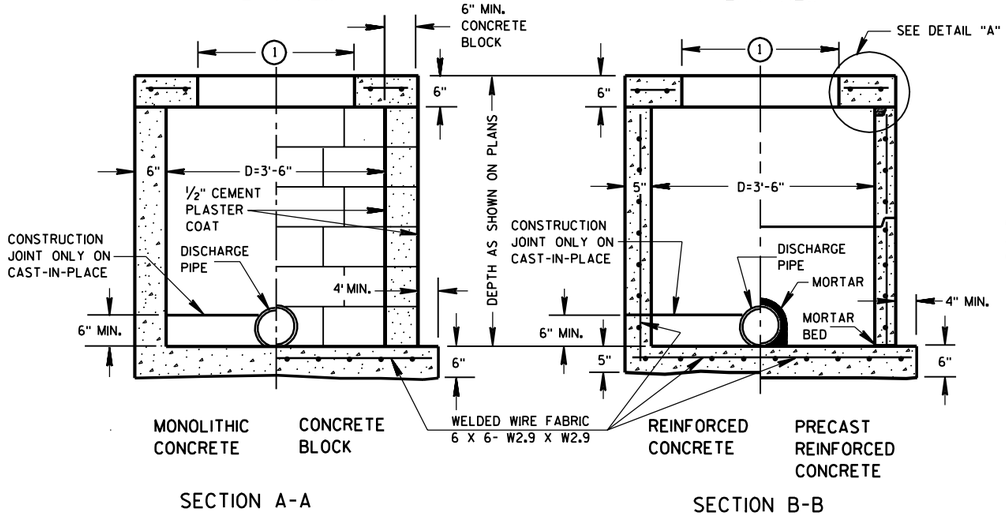
PLAN VIEW



PLAN VIEW

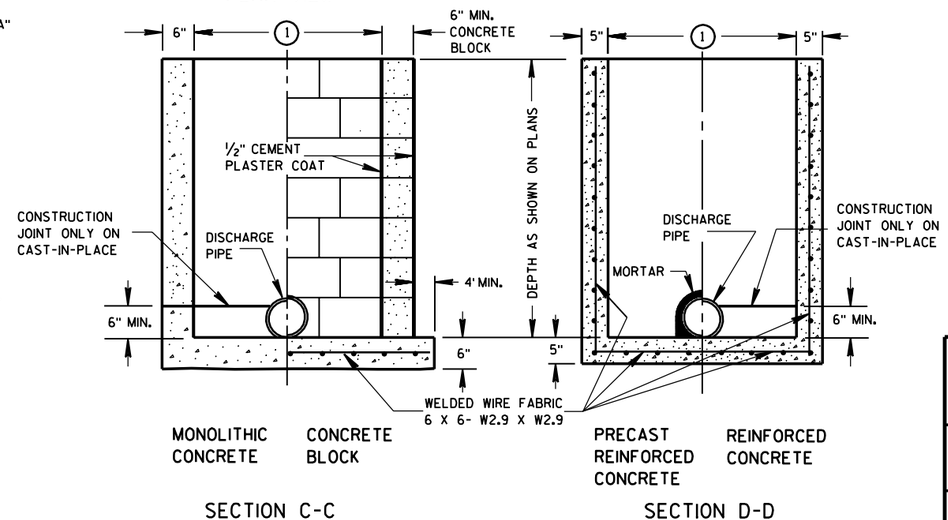


PLAN VIEW



SECTION A-A

SECTION B-B



SECTION C-C

SECTION D-D

INLETS TYPE 2, 3 & 4

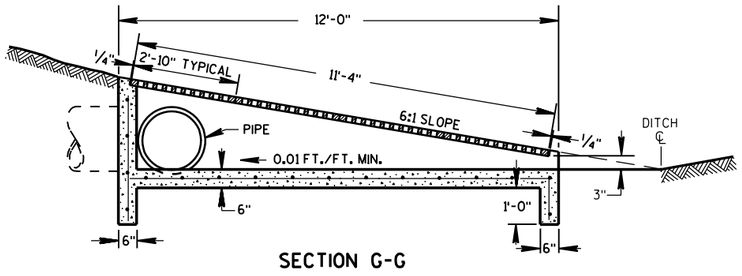
INLETS TYPE 1, 2, 3 & 4

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

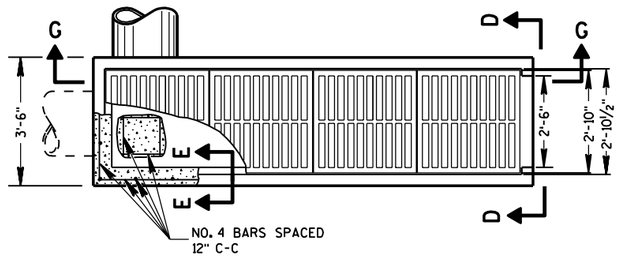
APPROVED
8/26/94
DATE
FHWA

CHIEF ROADWAY DEVELOPMENT ENGINEER

S.D.D. 8 C 1-5

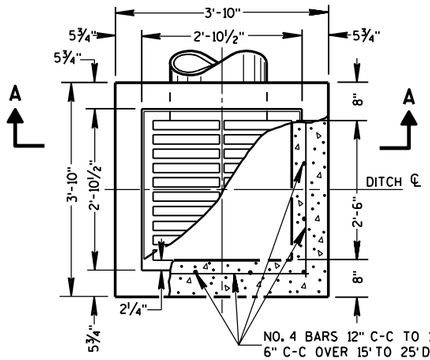


SECTION G-G

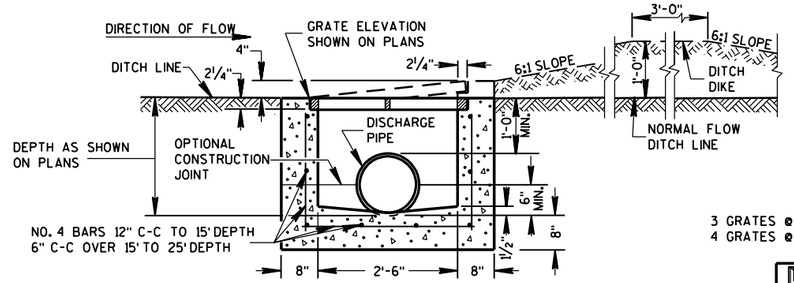


PLAN VIEW

REINFORCED CONCRETE INLET TYPE 11

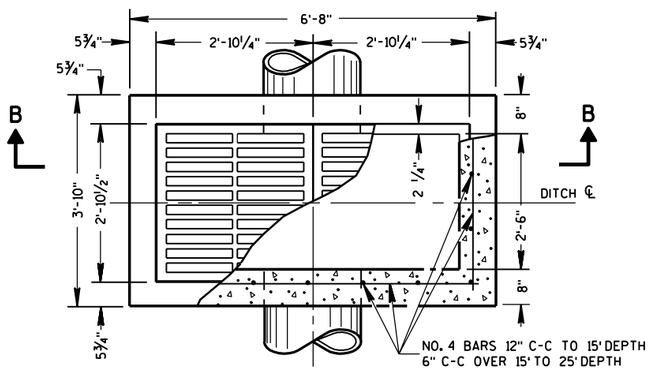


PLAN VIEW

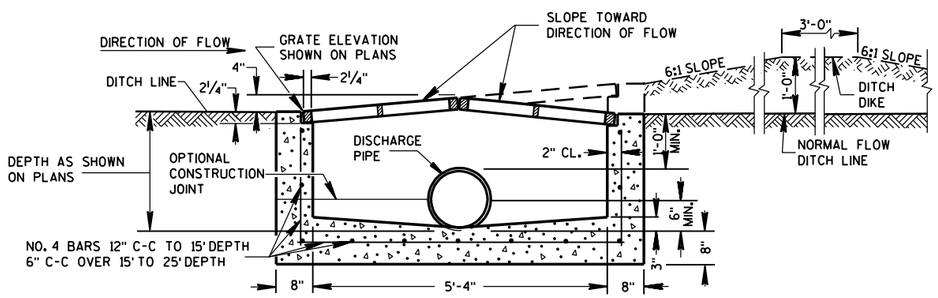


SECTION A-A

REINFORCED CONCRETE INLET TYPE 8



PLAN VIEW



SECTION B-B

REINFORCED CONCRETE INLET TYPE 9

GENERAL NOTES

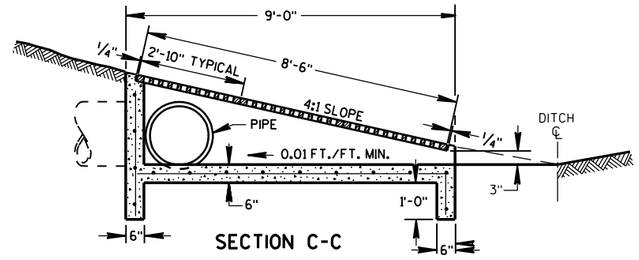
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

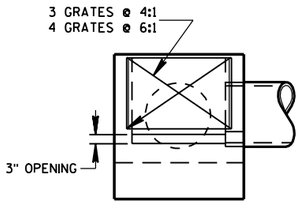
PRECAST REINFORCED CONCRETE INLET UNITS, IF USED, SHALL CONFORM TO THE REQUIREMENTS OF THE CATCH BASINS, MANHOLES AND INLETS SECTION OF THE STANDARD SPECIFICATIONS. UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A CORRECTED LIST OF SIZES IS FURNISHED BY THE ENGINEER.

ALL INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 8-MS", ETC. THIS DESIGNATION IS INTERPRETED TO MEAN THAT THE NUMBER, OR FIRST DIGIT DESIGNATES THE MASONRY PORTION OF THE STRUCTURE AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER OR IRON CASTING TO BE USED THEREWITH TO COMPRISE THE COMPLETE UNIT.

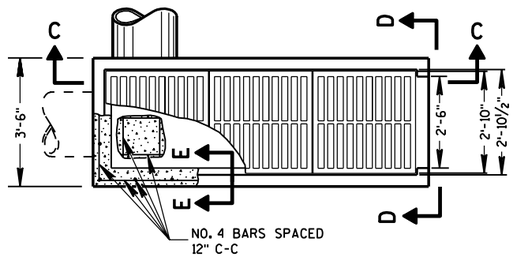
ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.



SECTION C-C

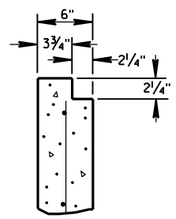


SECTION D-D



PLAN VIEW

REINFORCED CONCRETE INLET TYPE 10



SECTION E-E

INLETS TYPE 8, 9, 10 AND 11

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

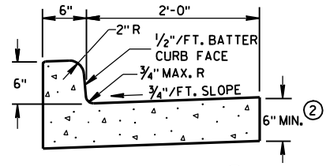
APPROVED
8/10/94
DATE

CHIEF ROADWAY DEVELOPMENT ENGINEER

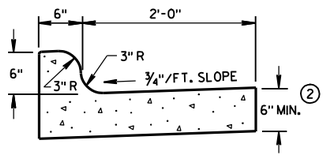
FHWA

6

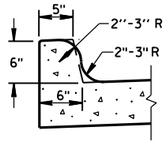
S.D.D. 8 C 5-2



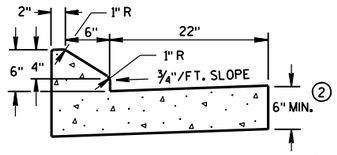
TYPES A & D ①



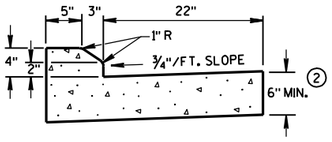
TYPES K & L ①



OPTIONAL CURB SHAPE FOR TYPES K & L ①

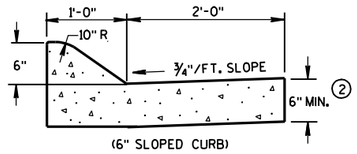


6" SLOPED CURB TYPES G & J ①

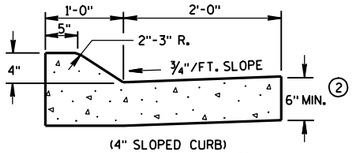


4" SLOPED CURB TYPES G & J ①

CONCRETE CURB & GUTTER 30"

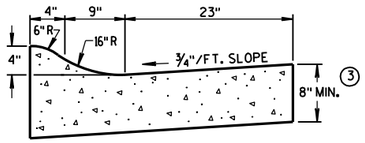


(6" SLOPED CURB)



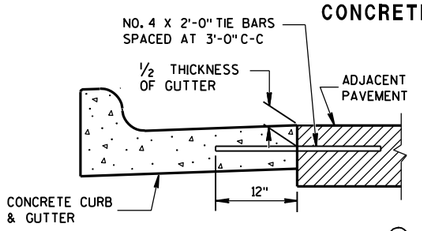
(4" SLOPED CURB)

TYPES A & D ①

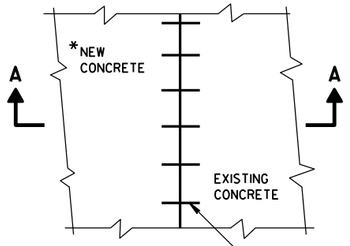


4" SLOPED CURB TYPES R & T ①④

CONCRETE CURB & GUTTER 36"

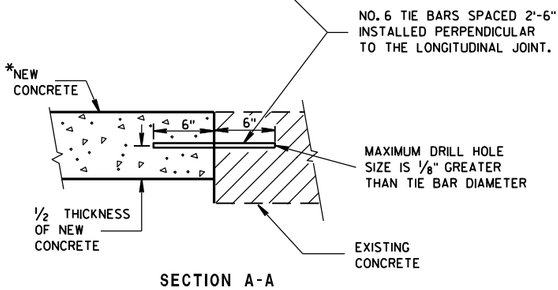


TYPICAL TIE BAR LOCATION ①



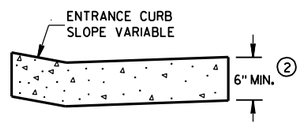
*NEW CURB & GUTTER, SURFACE DRAINS, CONCRETE PAVEMENT OR OTHER NEW CONCRETE.

PLAN VIEW

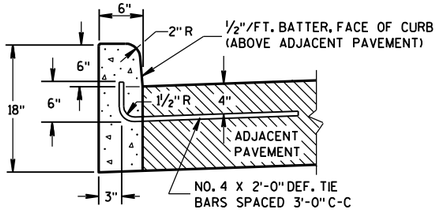


SECTION A-A

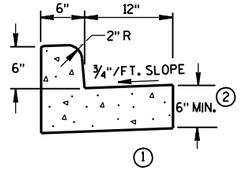
TIE BARS DRILLED INTO EXISTING PAVEMENT



DRIVEWAY ENTRANCE CURB
(WHEN DIRECTED BY THE ENGINEER)

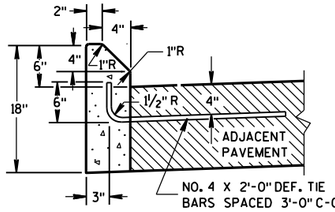


① TYPES A & D



① TYPES A & D

CONCRETE CURB & GUTTER 18"



① TYPES G & J

CONCRETE CURB

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

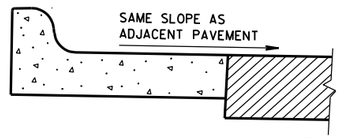
① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K AND R.

② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

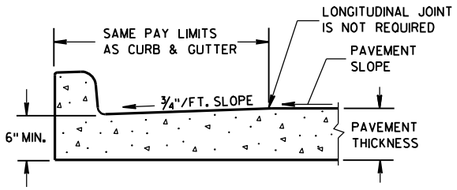
③ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

④ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

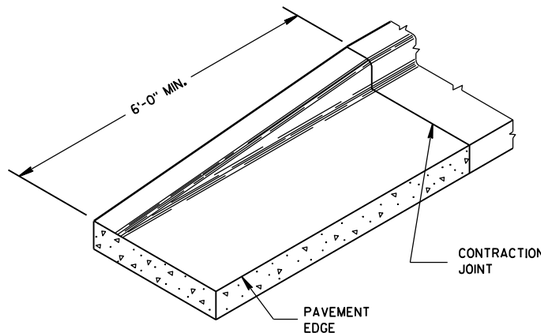
⑤ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.



REVERSE SLOPE GUTTER ⑤
(TYPICAL FOR ALL CURB & GUTTER TYPES)



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



END SECTION CURB & GUTTER

CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

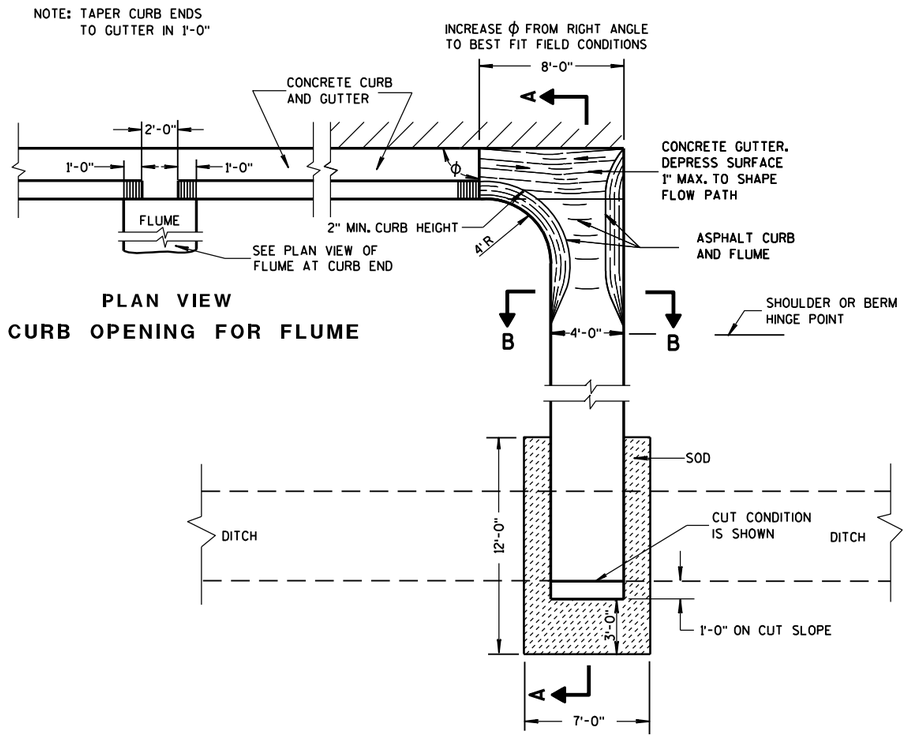
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/4/08 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

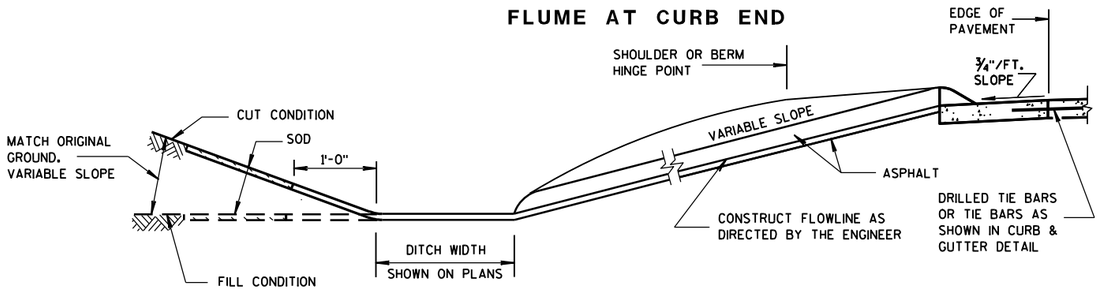
S.D.D. 8 D 1-17

ASPHALTIC FLUME

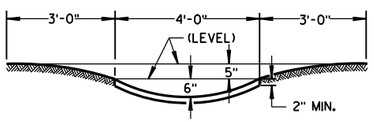


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

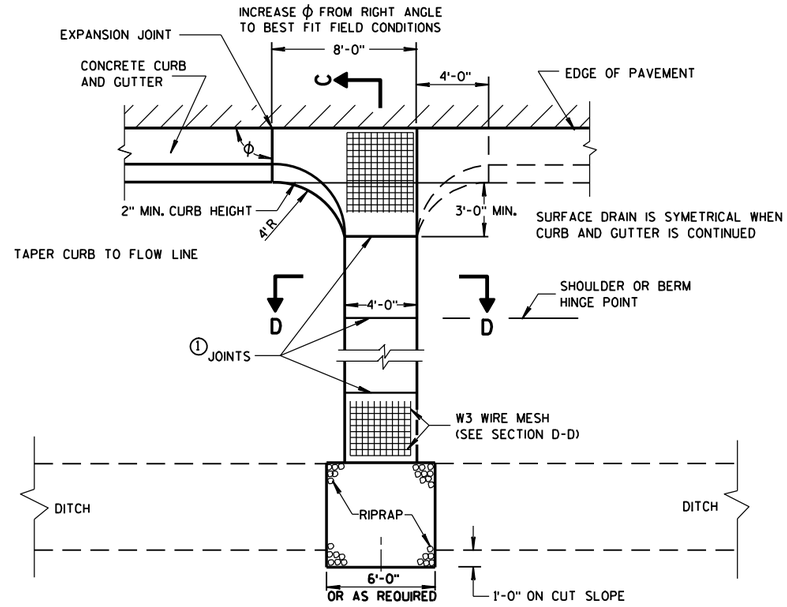
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE ⅛ TO ¼ INCH WIDE BY 1½ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

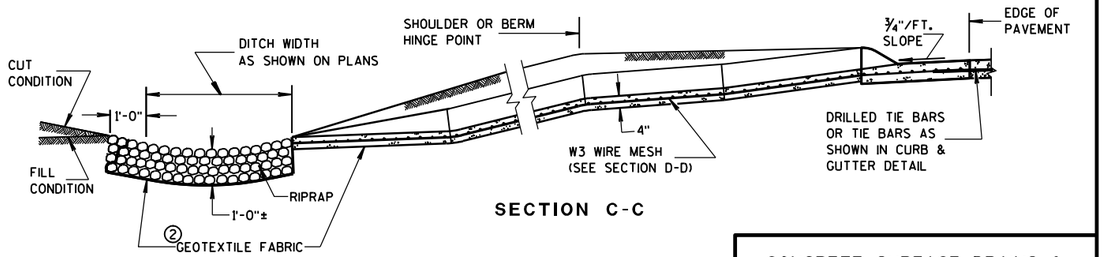
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

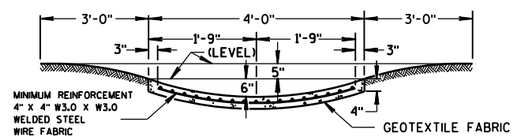
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

9-4-08
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

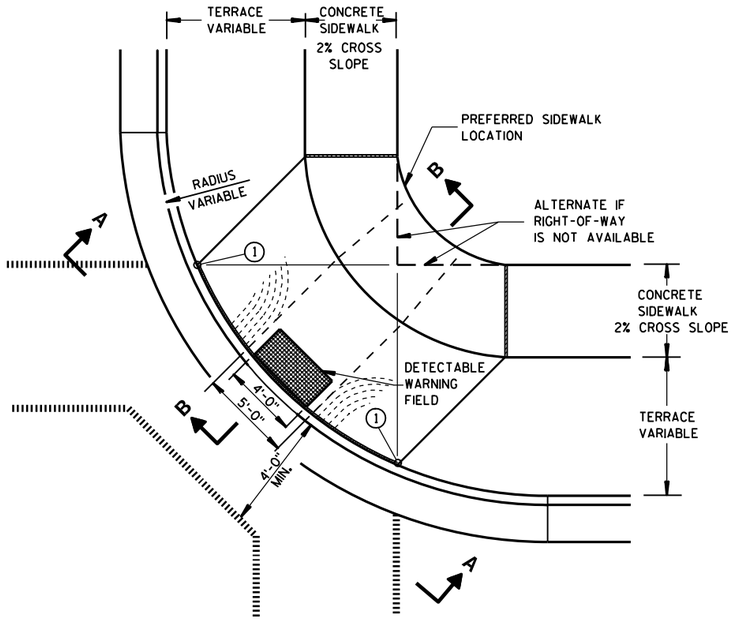
FHWA

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S.D.D. 8 D 4-5

6

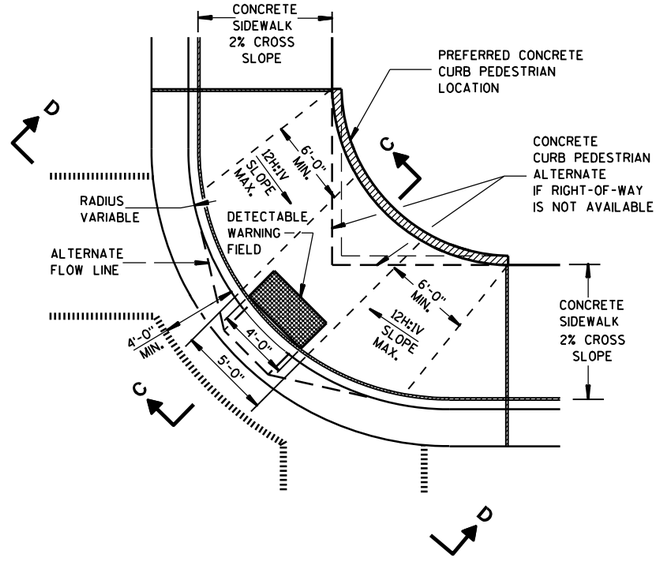
S.D.D. 8 D 4-5



PLAN VIEW

TYPE 1 RAMP

(CENTER OF CORNER RADIUS)



PLAN VIEW

TYPE 1-A RAMP

(NO TERRACE)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

RAMPS SHALL BE BUILT AT 12H:1V OR FLATTER. WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FIELD SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAL FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD".

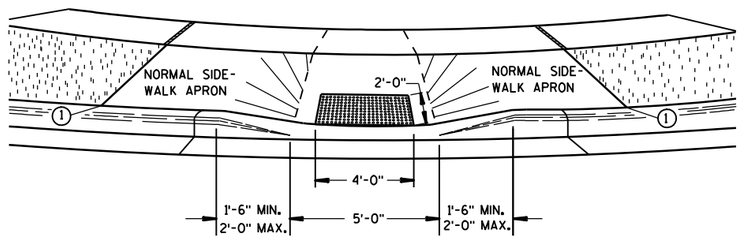
SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

(1) THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB.

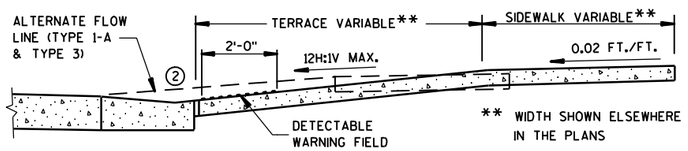
(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE.

LEGEND

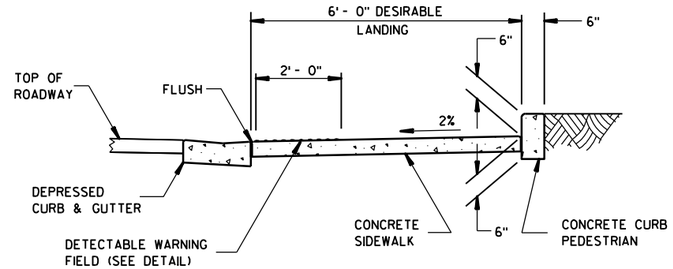
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



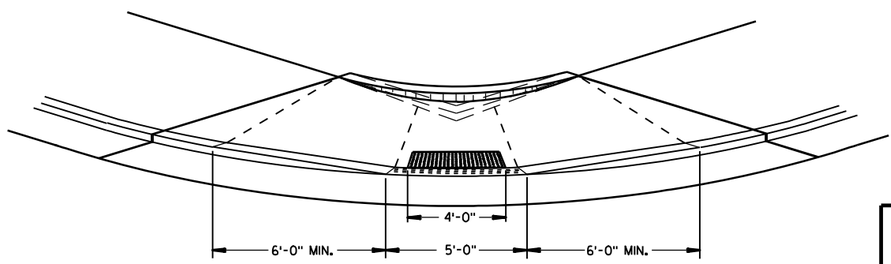
VIEW A-A



SECTION B-B



SECTION C-C



VIEW D-D

CURB RAMPS TYPES 1 AND 1-A

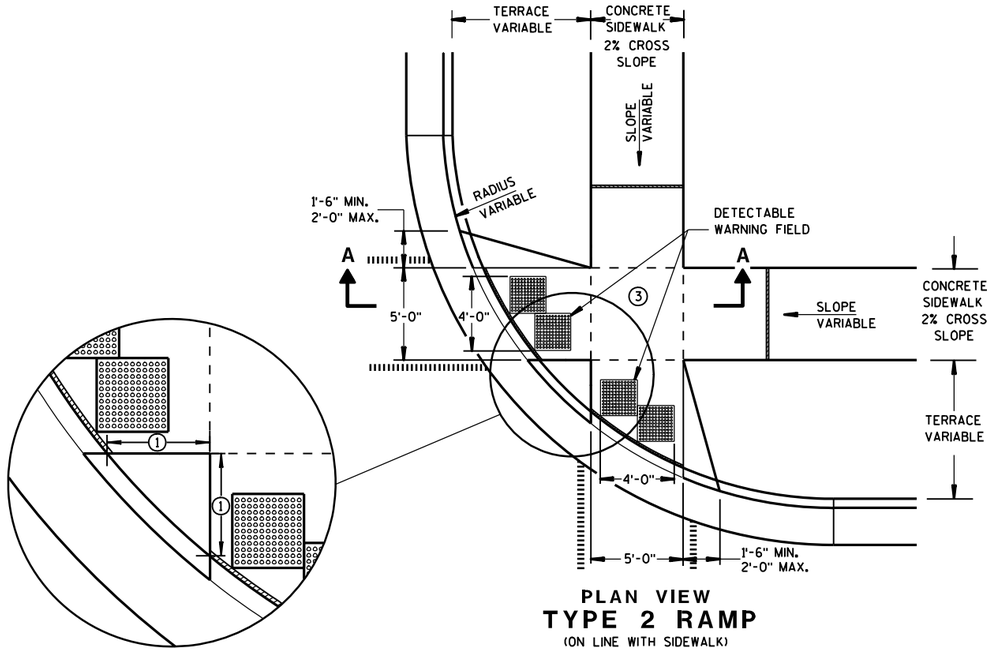
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

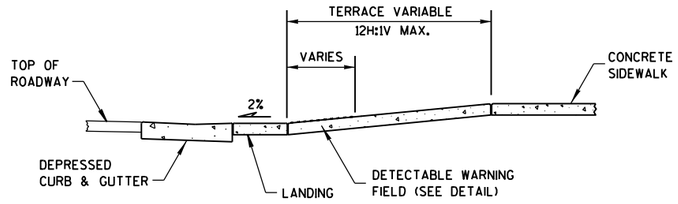
S.D.D. 8 D 5-14a

6

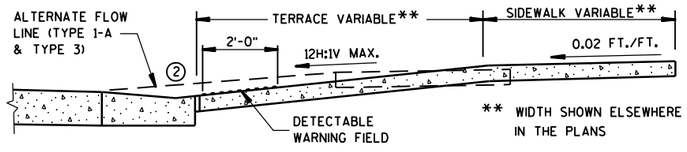
S.D.D. 8 D 5-14a



PLAN VIEW
TYPE 2 RAMP
(ON LINE WITH SIDEWALK)



SECTION A-A



SECTION B-B

GENERAL NOTES

USE THE TYPE 3 RAMP ONLY WHEN A TYPE 1 OR TYPE 2 CANNOT BE ACHIEVED BECAUSE OF FIELD CONDITIONS.

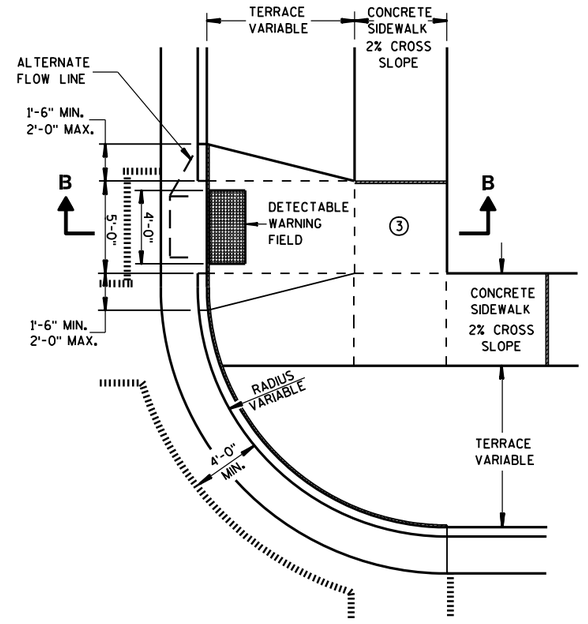
(1) WHEN THIS DISTANCE IS LESS THAN 6'-0" IT MAY BE DIFFICULT TO ACHIEVE A 12H:1V SLOPE, OR FLATTER, ON THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 12H:1V SLOPE, OR FLATTER, ON RAMP. 2" MINIMUM CURB HEIGHT.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE.

(3) PROVIDE LANDING AT TOP OF RAMP WITH NO MORE THAN 2% SLOPE IN ANY DIRECTION.

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



PLAN VIEW
TYPE 3 RAMP
(OUTSIDE OF CROSSWALK AREA)

CURB RAMPS
TYPES 2 AND 3

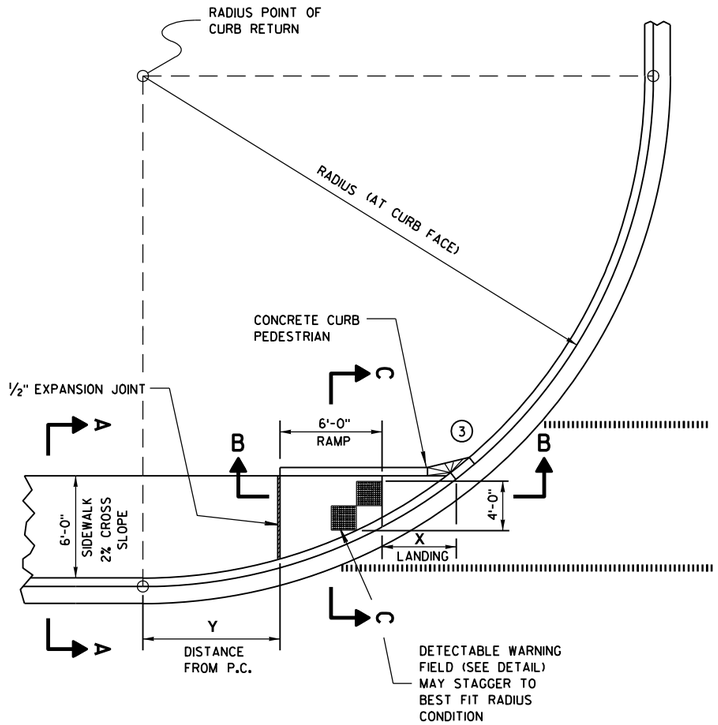
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 8 D 5-14b

6

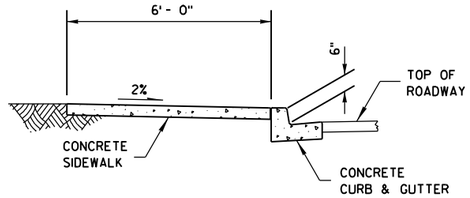
S.D.D. 8 D 5-14b



CURB RAMP TYPE 4A
PLAN VIEW

RADIUS (AT CURB FACE)	X	Y
20 FEET	6'-1¾"	2'-7¼"
30 FEET	7'-11¾"	4'-8¼"
40 FEET	9'-5¼"	6'-5"
50 FEET	10'-8¾"	7'-11¼"
60 FEET	11'-10¼"	9'-3½"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A-A

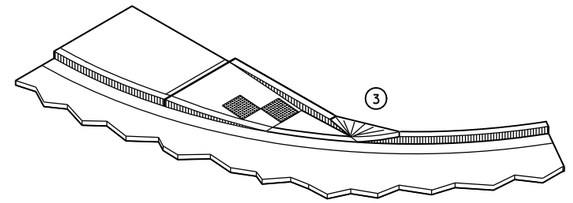
GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

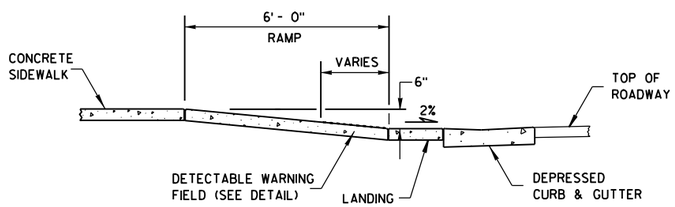
RAMP SLOPES SHALL NOT BE STEEPER THAN 12:1.

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

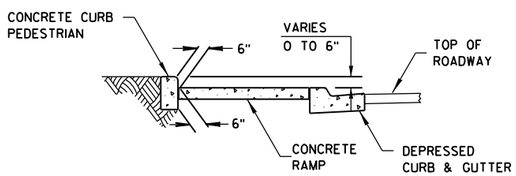
(3) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.



ISOMETRIC VIEW



SECTION B-B



SECTION C-C

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPE 4A

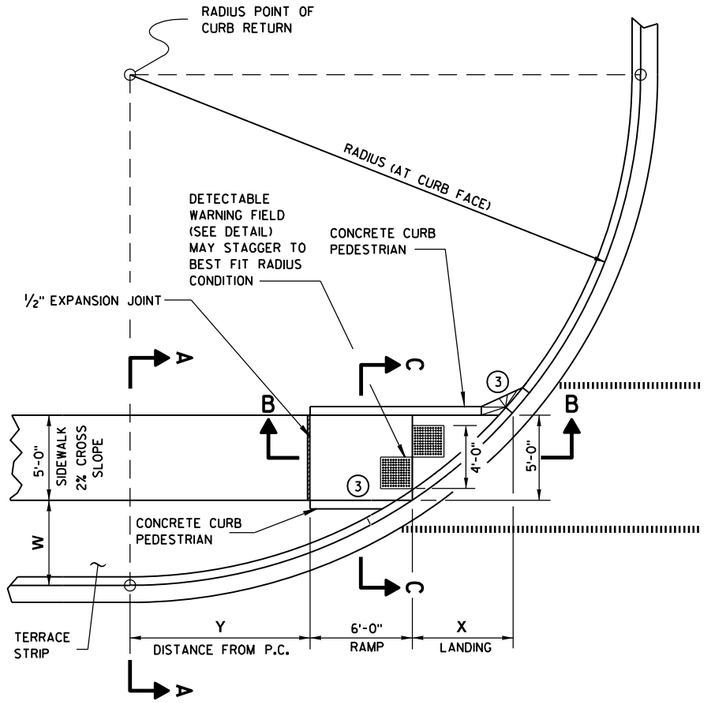
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

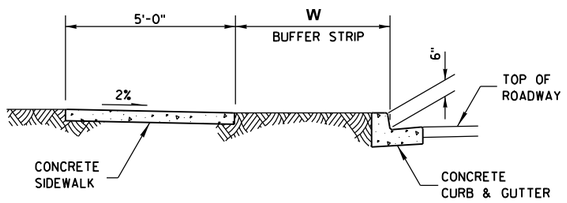
S.D.D. 8 D 5-14c

6

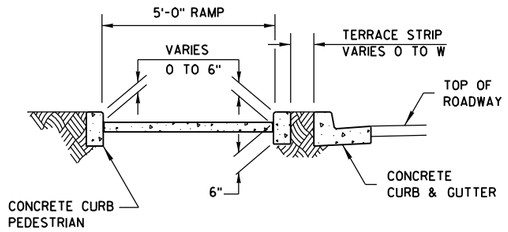
S.D.D. 8 D 5-14c



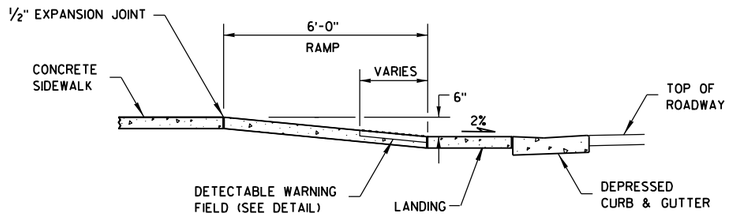
CURB RAMP TYPE 4B
PLAN VIEW



SECTION A-A



SECTION C-C



SECTION B-B

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

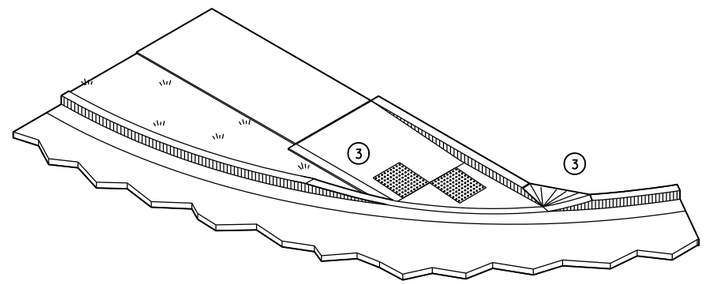
RAMP SLOPES SHALL NOT BE STEEPER THAN 12:1.

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

(3) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.

RADIUS (AT CURB FACE)	W = 3'-0"		W = 4'-0"		W = 5'-0"		W = 6'-0"		W = 7'-0"	
	X	Y	X	Y	X	Y	X	Y	X	Y
20 FEET	5'-5½"	4'-6½"	4'-8½"	6'-0"	4'-1"	7'-2¾"	3'-7"	8'-3½"	3'-1½"	9'-2½"
30 FEET	7'-3¾"	7'-1"	6'-5½"	8'-11½"	5'-9¼"	10'-7"	5'-2½"	12'-0"	4'-8¾"	13'-3¼"
40 FEET	8'-9½"	9'-2½"	7'-10"	11'-5¼"	7'-1"	13'-4½"	6'-5¾"	15'-¾"	5'-11½"	16'-7¼"
50 FEET	10'-¾"	11'-¾"	9'-¼"	13'-7¼"	8'-2½"	15'-9½"	7'-6½"	17'-9"	6'-11¾"	19'-6¼"
60 FEET	11'-2½"	12'-8¾"	10'-¾"	15'-6½"	9'-2¼"	17'-11¾"	8'-5¾"	20'-1¾"	7'-10½"	22'-1½"
70 FEET	12'-2¾"	14'-3¼"	11'-¼"	17'-4"	10'-1"	19'-11¾"	9'-3¾"	22'-4¼"	8'-8¼"	24'-6¼"
80 FEET	13'-2"	15'-8½"	11'-10½"	18'-11¾"	10'-10¾"	21'-10"	10'-1"	24'-4¾"	9'-5"	26'-8¾"
90 FEET	14'- ½"	17'-½"	12'-8¼"	20'-6½"	11'-7¾"	23'-7"	10'-9¾"	26'-3¾"	10'-1¼"	28'-9½"
100 FEET	14'-10½"	18'-3¾"	13'-5½"	22'-0"	12'-4¼"	25'-2¾"	11'-5¾"	28'-1½"	10'-9"	30'-9"

INTERMEDIATE RADII CAN BE INTERPOLATED



ISOMETRIC VIEW

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS TYPE 4B

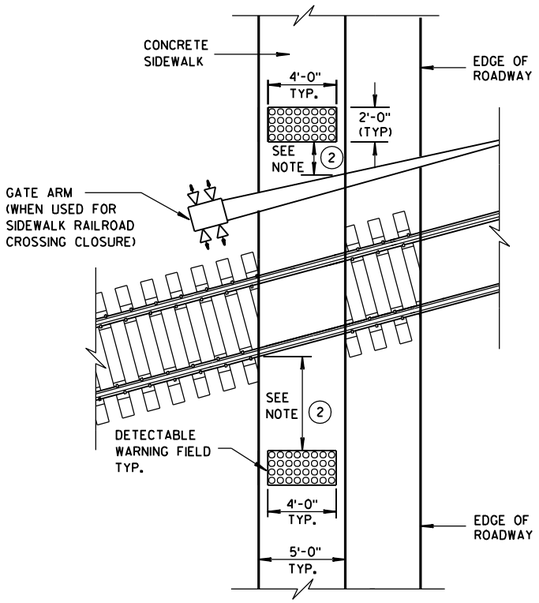
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

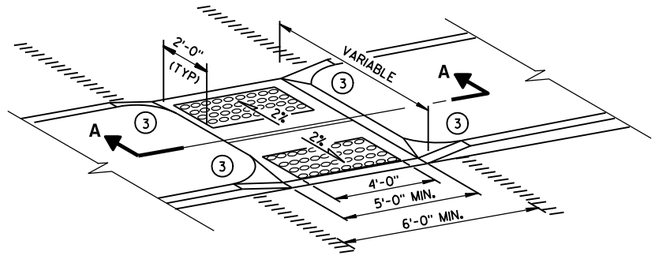
S.D.D. 8 D 5-14d

6

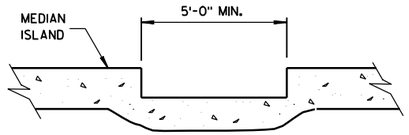
S.D.D. 8 D 5-14d



TYPE 8
DETECTABLE WARNINGS AT RAILROAD CROSSING



MEDIAN ISLAND
NON-ELEVATED CROSSING
TYPE 5



SECTION A-A

GENERAL NOTES

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

(1) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(2) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ± 0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

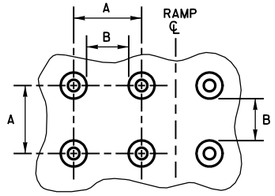
(3) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

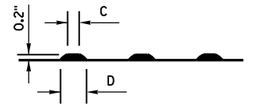
PAVEMENT MARKING CROSSWALK (WHITE)



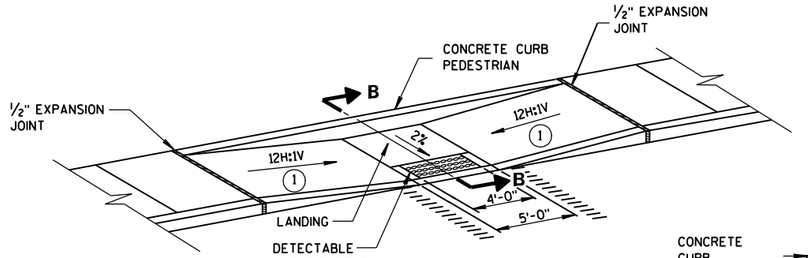
PLAN VIEW

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

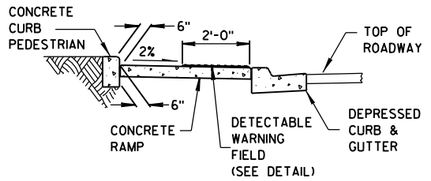
* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.



ELEVATION VIEW

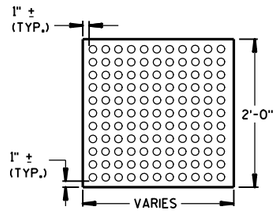


MID-BLOCK CROSSING
TYPE 7A



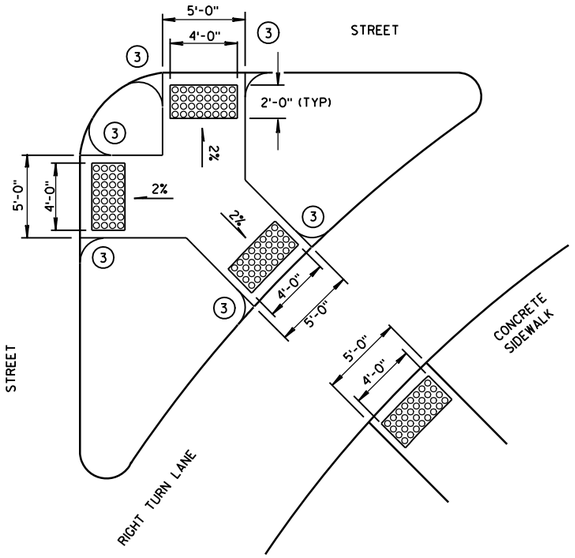
SECTION B-B

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL

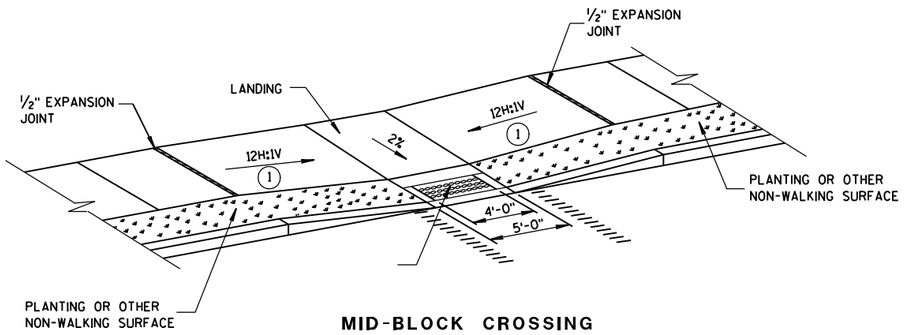


PLAN VIEW

DETECTABLE WARNING FIELD (TYPICAL)



TYPE 6
DETECTABLE WARNING AT ISLANDS



MID-BLOCK CROSSING
TYPE 7B

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.

CURB RAMPS
TYPES 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

2-9-10 — DATE — FHWA

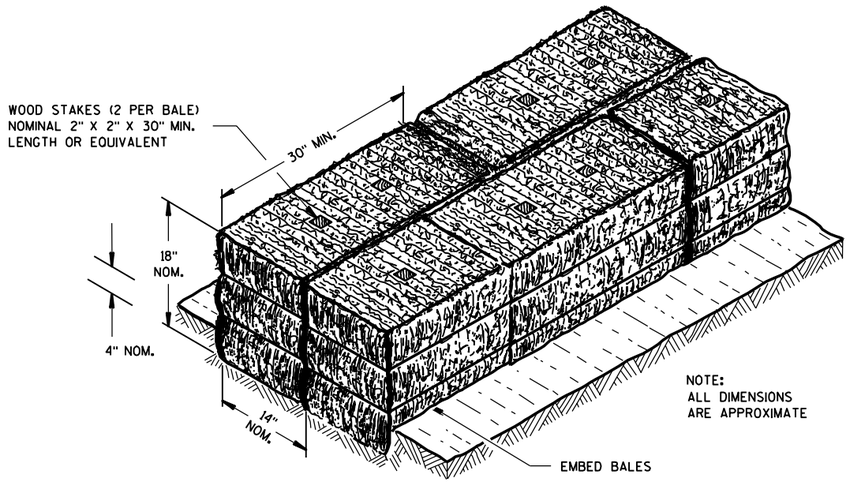
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

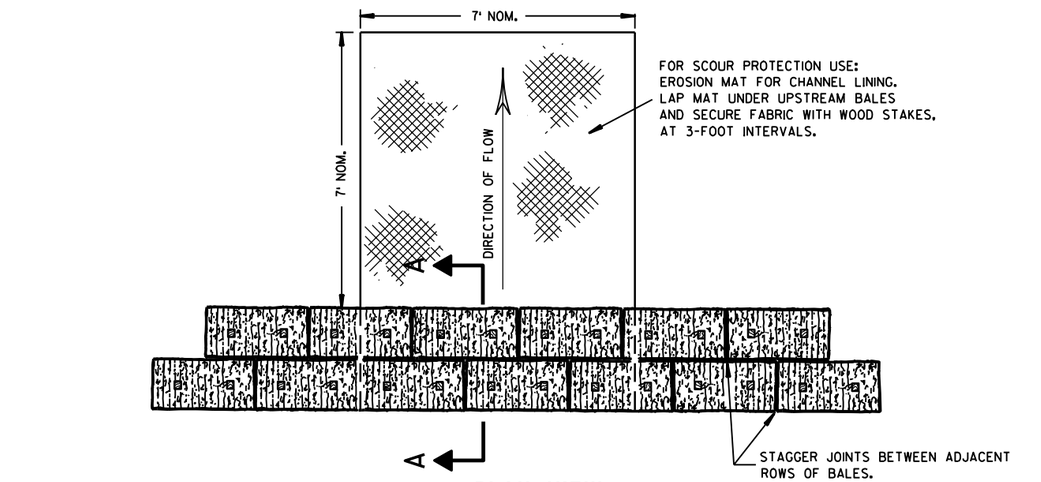
S.D.D. 8 D 5-14e

6

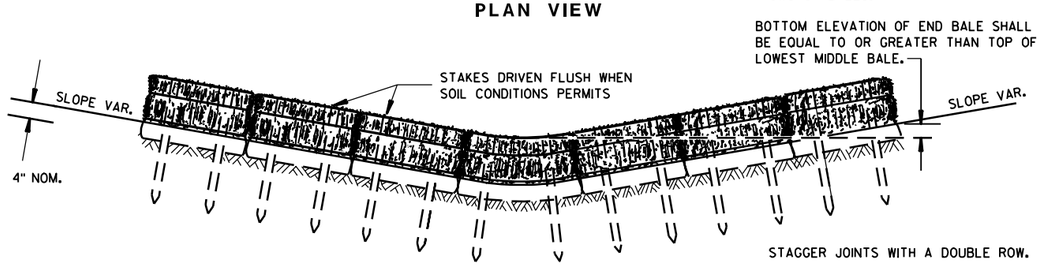
S.D.D. 8 D 5-14e



SECTION A-A



PLAN VIEW



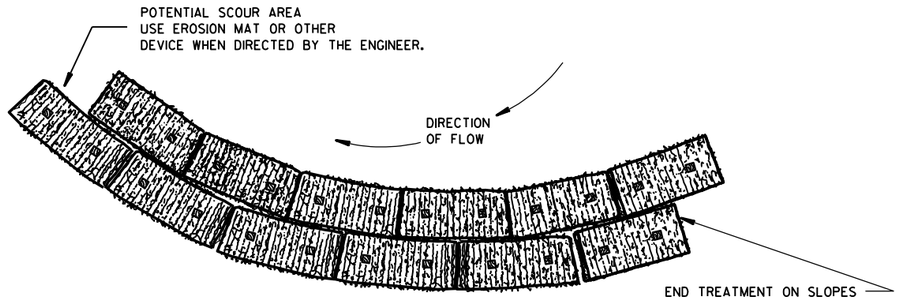
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

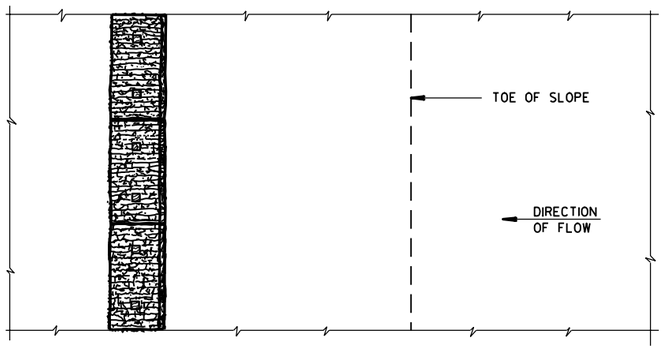
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

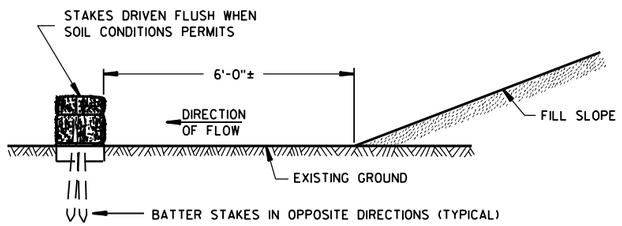


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

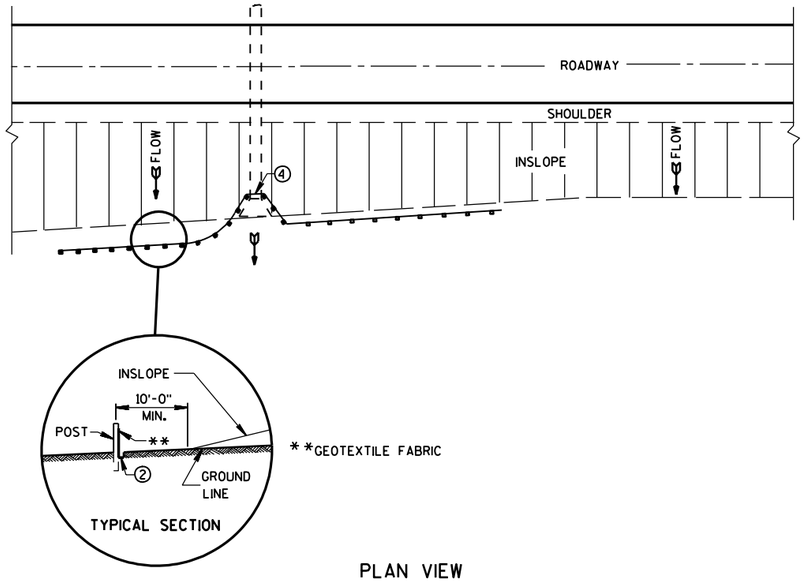
TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/04/02
DATE
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

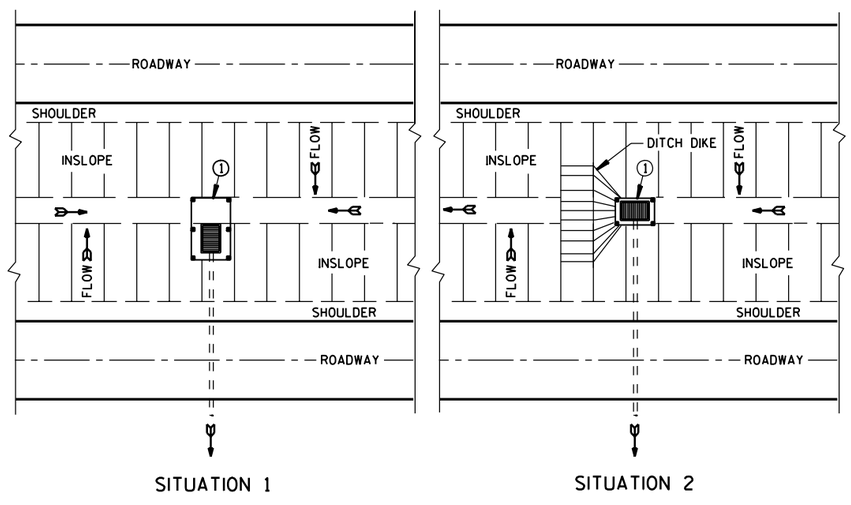
6

S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



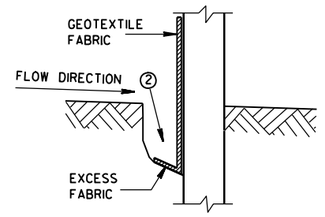
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

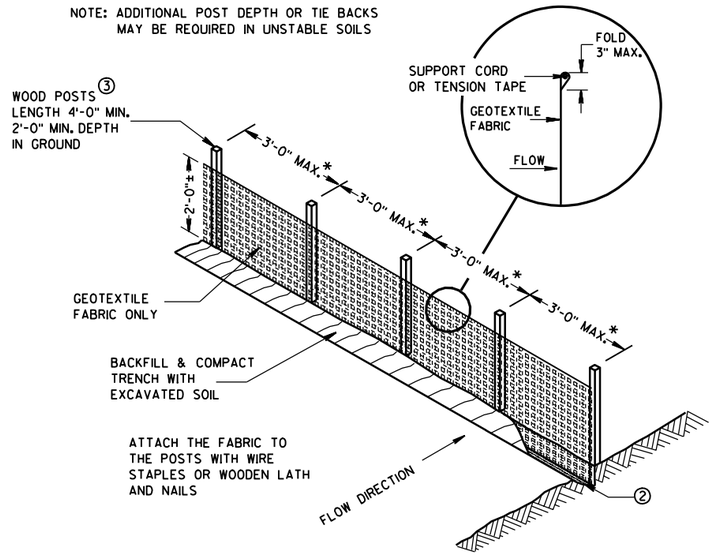
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS: A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.

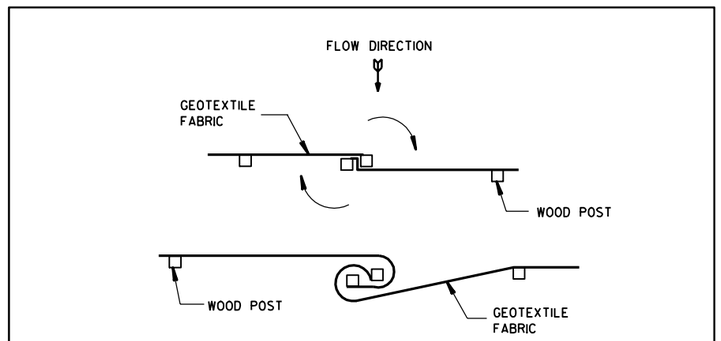


TRENCH DETAIL

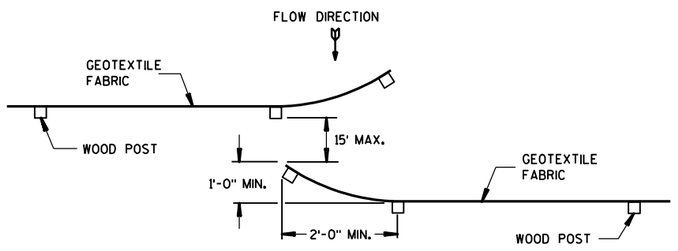


*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE

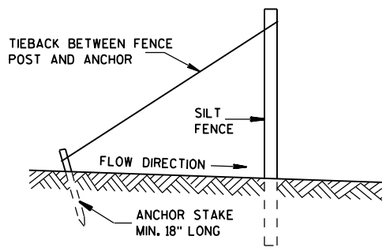


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

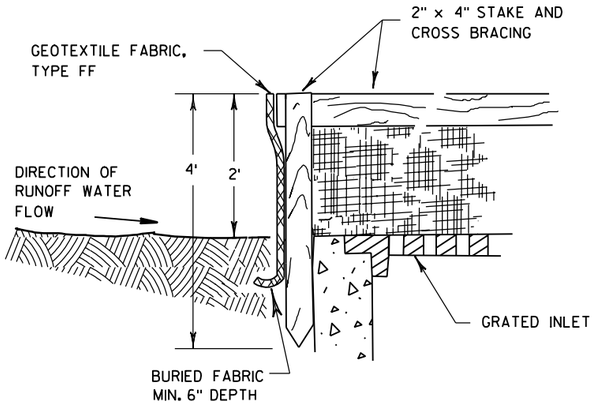
APPROVED
4-29-05
DATE
FHWA

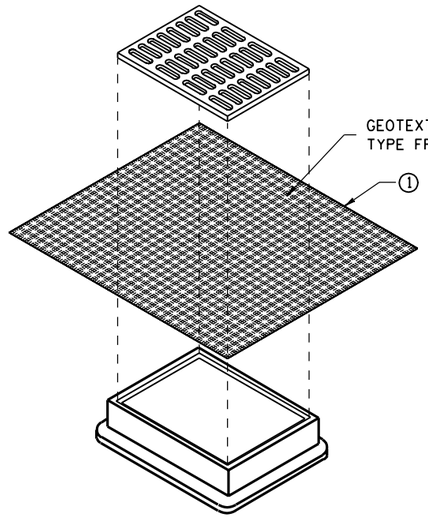
CHIEF ROADWAY DEVELOPMENT ENGINEER

6

S.D.D. 8 E 9-6

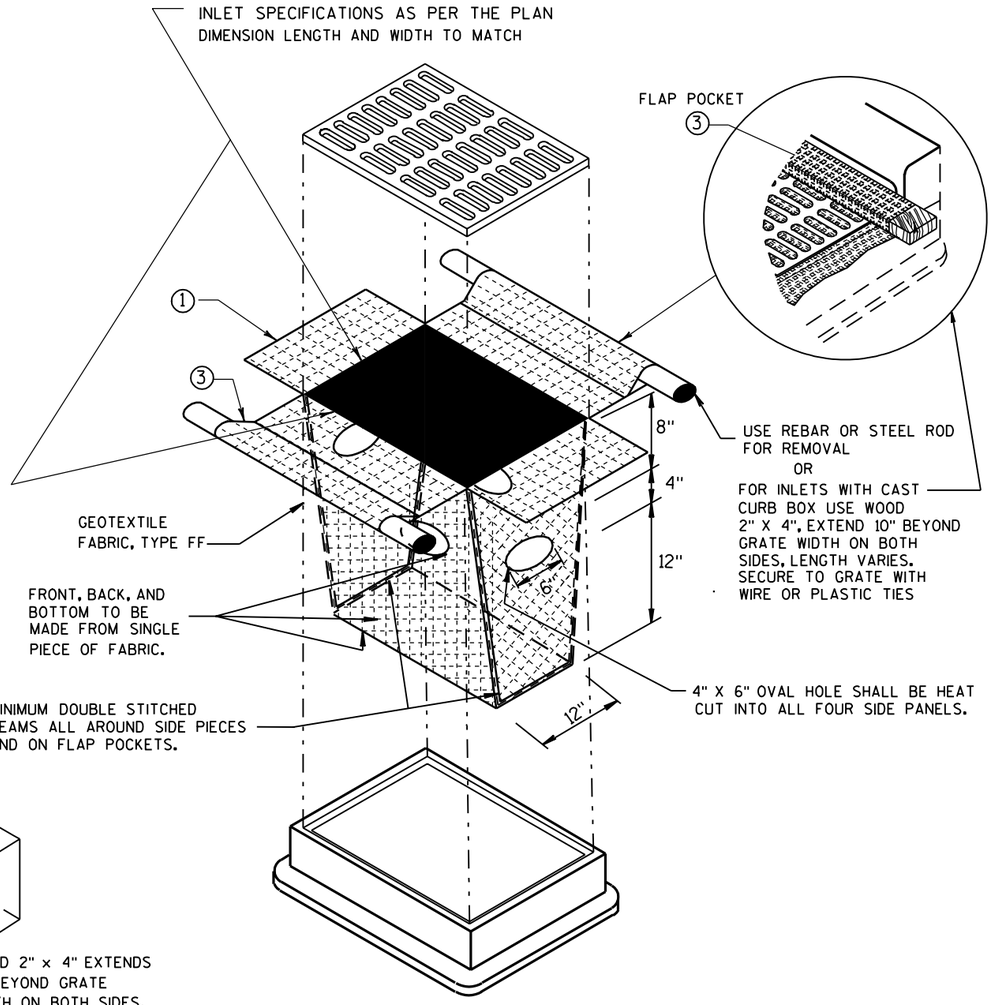
S.D.D. 8 E 9-6





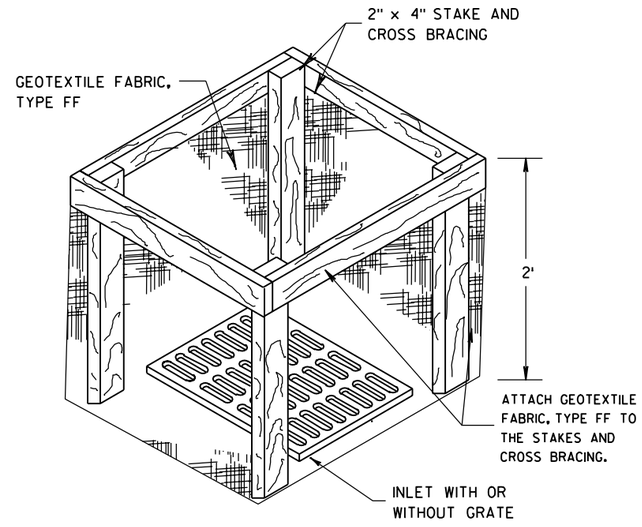
INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)

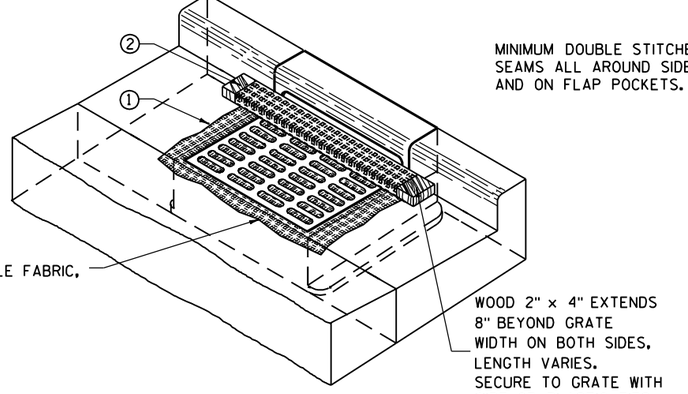


INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)



INLET PROTECTION, TYPE A



INLET PROTECTION, TYPE C (WITH CURB BOX)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02
DATE
FHWA

CHIEF ROADWAY DEVELOPMENT ENGINEER

6

S.D.D. 8 E 10-2

METAL APRON ENDWALLS

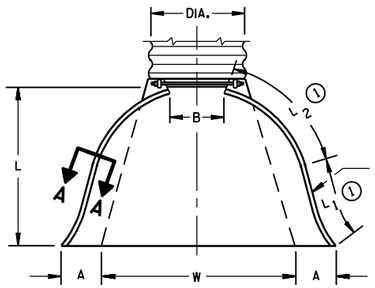
PIPE DIA. (IN.)	MIN. THICK. (inches) STEEL	MIN. THICK. (inches) ALUM.	DIMENSIONS (inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

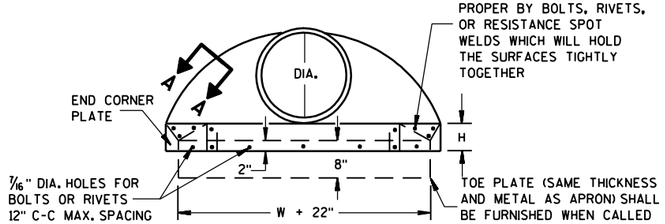
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 7/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4-35 ** 98 1/4- 100		90	5 1/2	2 2/5 to 1
60	6	* 30-35 **	60	39	99	96	5	2 to 1
66	6 1/2	* 24-30 **	* 72-78 **	* 21-27 **	99	102	5 1/2	2 to 1
72	7	* 24-36 **	78	21	99	108	6	2 to 1
78	7 1/2	* 24-36 **	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

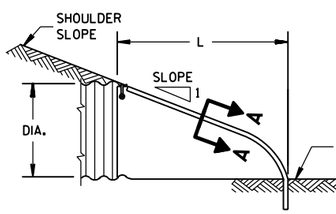
*MINIMUM
**MAXIMUM



PLAN VIEW

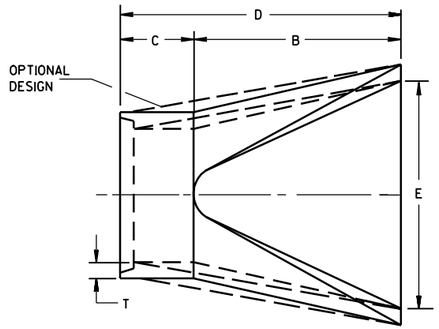


END VIEW

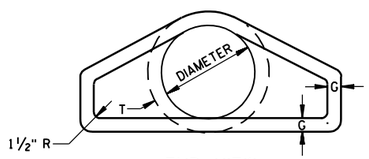


SIDE ELEVATION

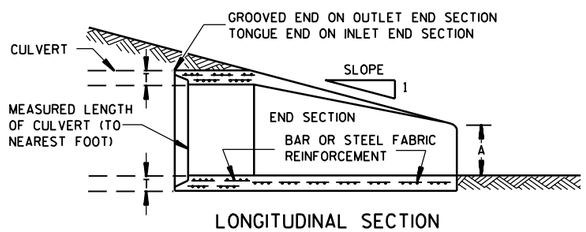
METAL ENDWALLS



PLAN

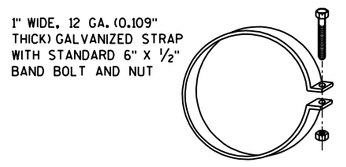


END VIEW



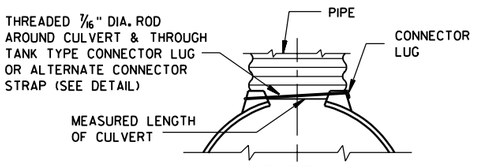
LONGITUDINAL SECTION

CONCRETE ENDWALLS

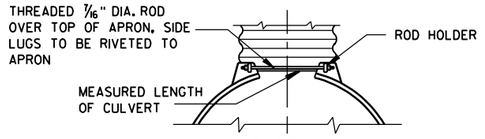


ALTERNATE FOR TYPE 1 CONNECTION

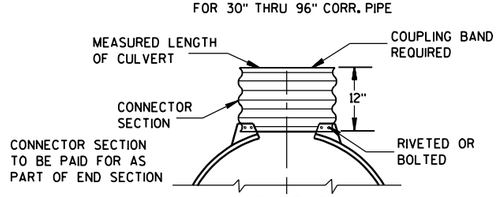
END SECTION CONNECTOR STRAP



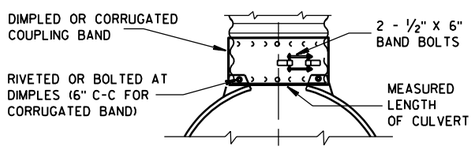
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

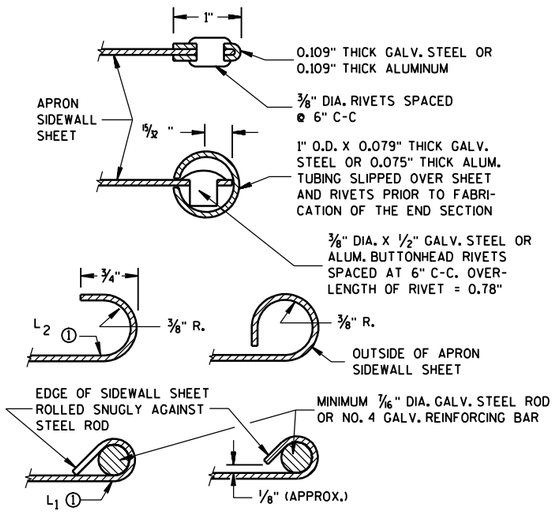
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

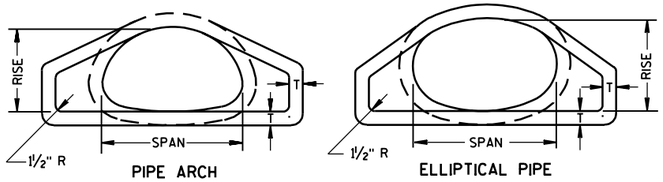
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

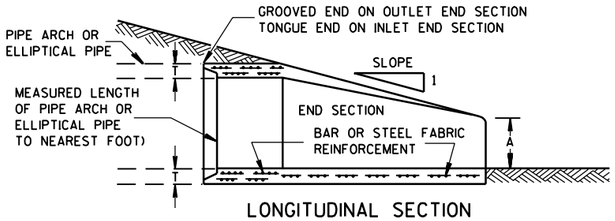
APPROVED
11/30/94
DATE

CHIEF ROADWAY DEVELOPMENT ENGINEER

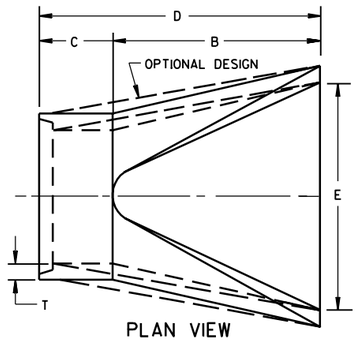
FHWA



END VIEW

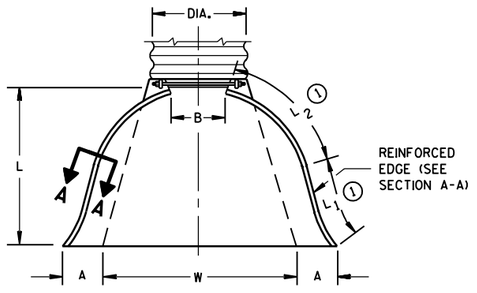


LONGITUDINAL SECTION

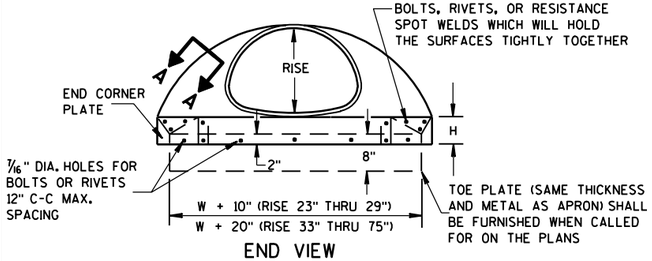


PLAN VIEW

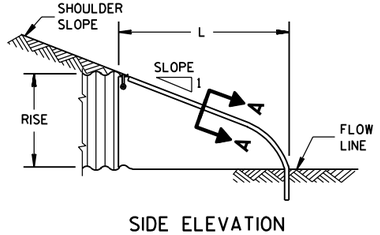
CONCRETE ENDWALLS



PLAN VIEW

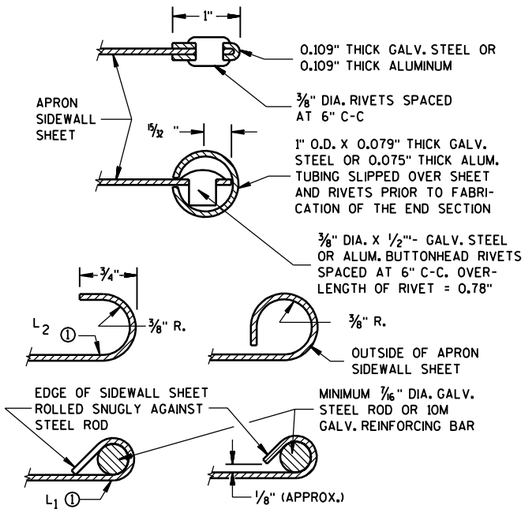


END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

2- 2/3" X 1/2" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19⅜	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37⅝	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45⅜	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL SEE GENERAL NOTES

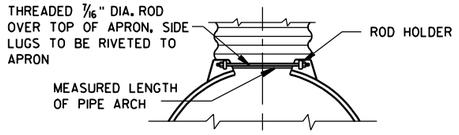
REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	29	18	3	8½	39	33	72	48	3 to 1
30	36	22	3½	9½	50	46	96	60	3 to 1
36	44	27	4	11⅛	60	36	96	72	3 to 1
42	51	31	4½	15⅛	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5½	25½	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28½	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE

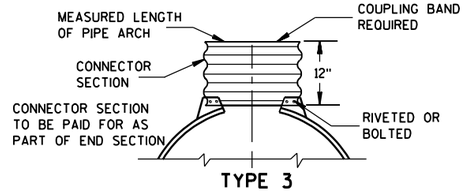
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

** NOMINAL SIZE



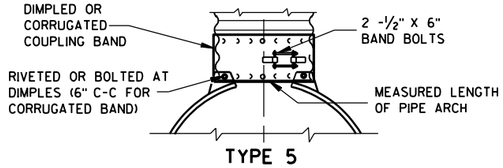
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:
ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

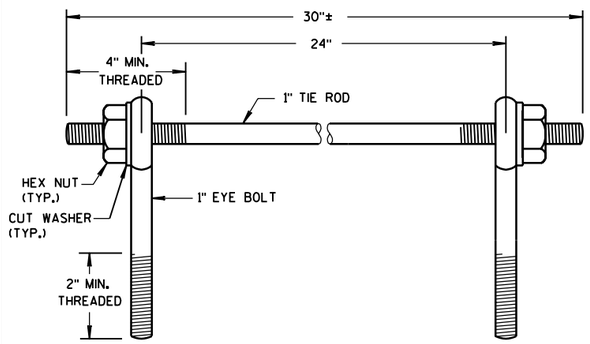
APPROVED
11/30/94
DATE

CHIEF ROADWAY DEVELOPMENT ENGINEER

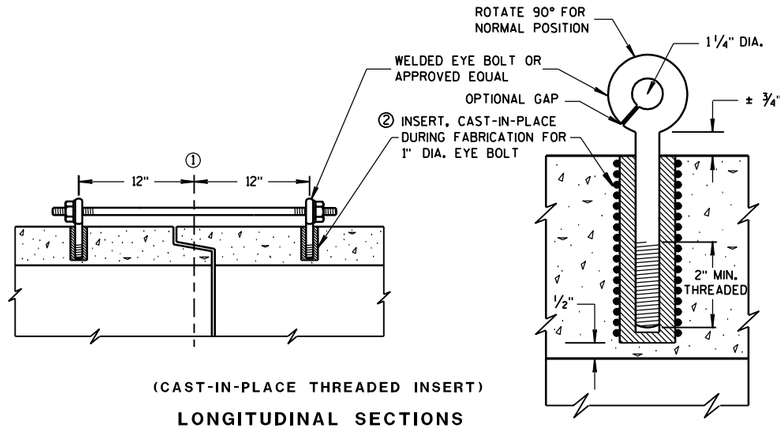
FHWA

6

S.D.D. 8 F 2-1



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED ON THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES. UNLESS OTHERWISE STATED IN THE CONTRACT THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE CULVERT PIPE AS INDICTED ON THE PLANS AND BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO CILVERT PIPE, REINFORCED CONCRETE CULVERT PIPE, OR REINFORCED CONCRETE PIPE CATTLE PASS.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

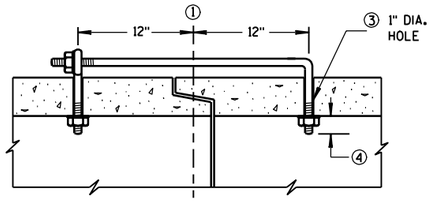
③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

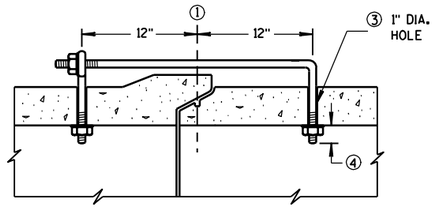
⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)



(TONGUE & GROOVE PIPE)



(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

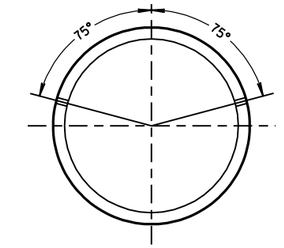
EYE BOLT DIMENSION TABLE

PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	

ADJUSTABLE TIE ROD TABLE

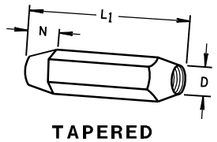
PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 7/16

DIMENSIONS SHOWN ARE IN INCHES

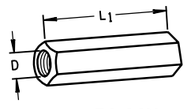


PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



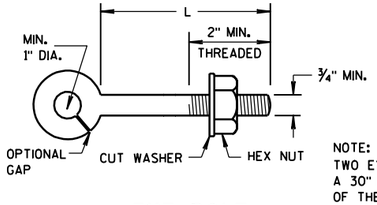
TAPERED



PLAIN

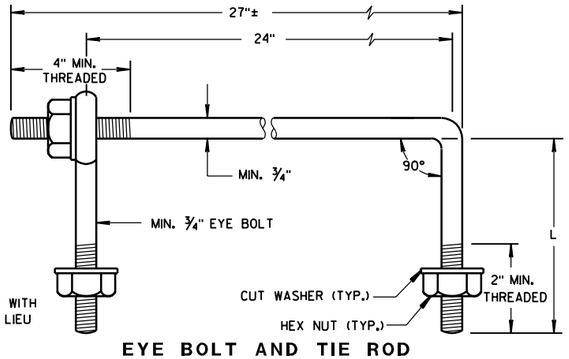
RIGHT AND LEFT THREADS

SLEEVE NUTS



EYE BOLT

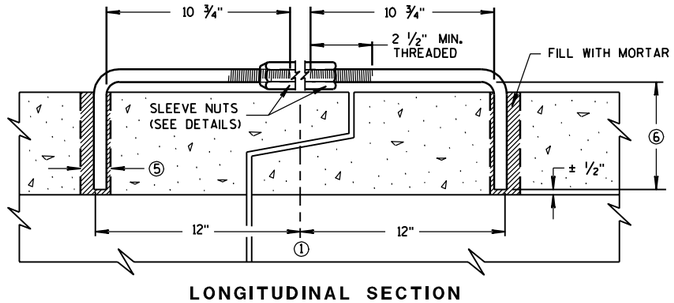
NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)



LONGITUDINAL SECTION

(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)

JOINT TIES FOR CONCRETE PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12/17/07
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

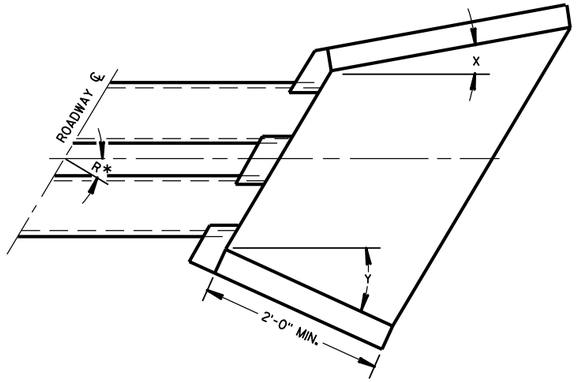
FHWA

6

S.D.D. 8 F 4-6

6

S.D.D. 8 F 4-6



WINGWALL ANGLE DETAILS

INLET			OUTLET		
R*	X	Y	R*	X	Y
0 - 7°	30°	30°	0 - 15°	15°	15°
8 - 22°	25°	"	16 - 45°	10°	"
23 - 37°	20°	"	46 - 75°	5°	"
38 - 52°	15°	"	OVER 75°	0°	"
53 - 67°	10°	"			
68 - 82°	5°	"			
OVER 82°	0°	"			

*R = NUMBER OF DEGREES RIGHT OR LEFT HAND FORWARD

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

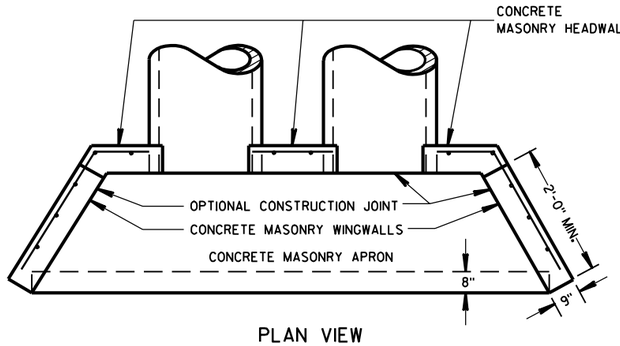
FILL SLOPES FLATTER THAN 2 ½:1 SHALL BE WARPED TO MEET THE TOP OF THE WINGWALLS.

ALL STEEL REINFORCEMENT AND WELDED STEEL WIRE FABRIC SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE NOTED.

(1) MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS SPACED 12" C-C IN BOTH DIRECTIONS.

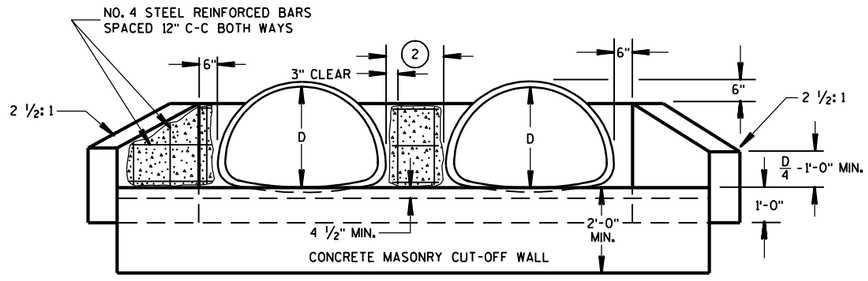
(2) THE SPACE BETWEEN PIPES SHALL BE AS FOLLOWS:

DIAMETER OR SPAN	SPACE
UP TO AND INCLUDING 48"	2'-0"
OVER 48" TO 72"	½ DIA. OR SPAN
OVER 72"	3'-0"



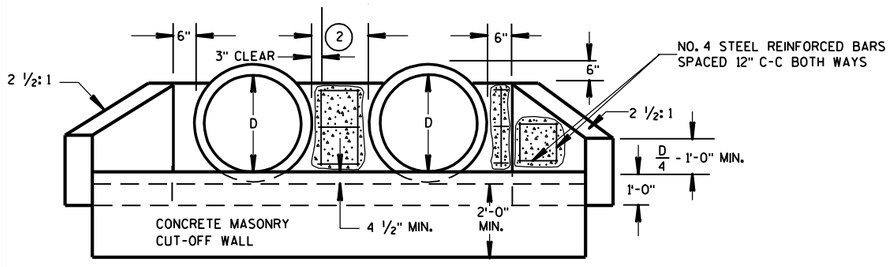
PLAN VIEW

CULVERT PIPE AND PIPE ARCH



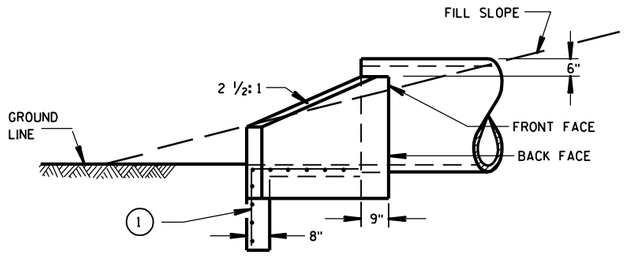
END ELEVATION

PIPE ARCH



END ELEVATION

CULVERT PIPE



SIDE ELEVATION

CULVERT PIPE AND PIPE ARCH

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

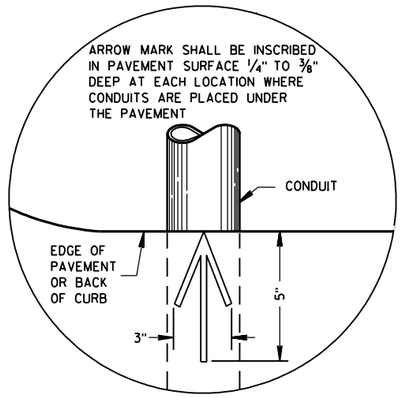
APPROVED
9/14/98
DATE

CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

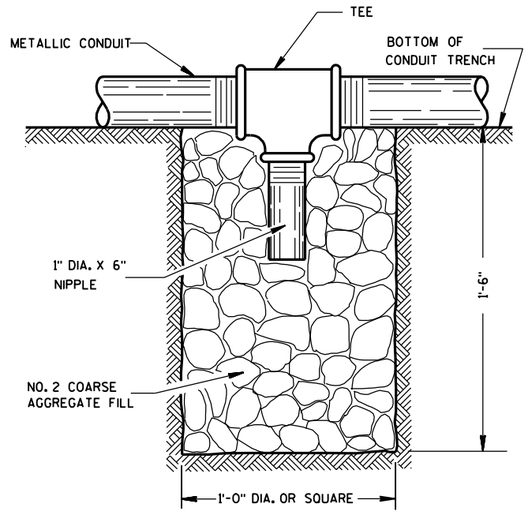
6

S.D.D. 8 F 10-1



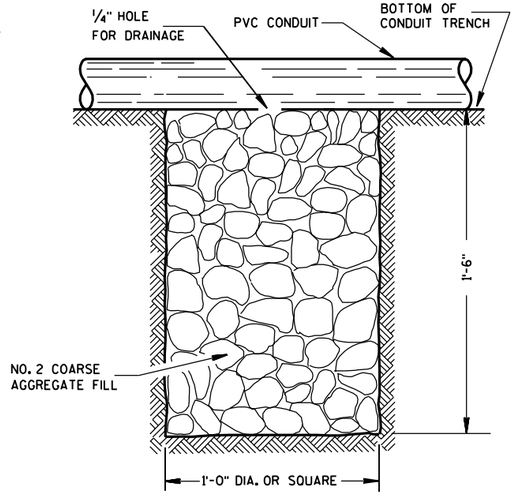
PLAN VIEW

ARROW MARK



NOTE: INSTALL AT LOCATIONS WHERE METALLIC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR METALLIC CONDUIT



NOTE: INSTALL AT LOCATIONS WHERE PVC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR PVC CONDUIT

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

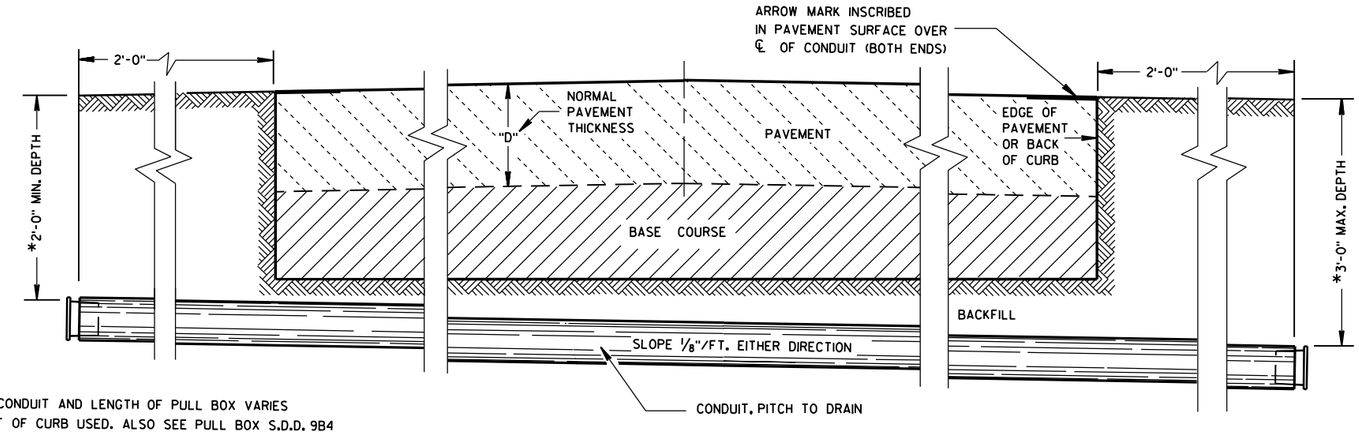
PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

POLY ROPE OR A PULL WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/23/03
DATE
FHWA

STATE ELECTRICAL ENGINEER FOR HIGHWAYS

6

S.D.D. 9 B 2-7

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2	26 1/2	26 1/2	26 1/2
FRAME	F	8 1/2	8 1/2	8 1/2	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2
FRAME	G	11 1/2	11 1/2	11 1/2	17 1/2	17 1/2	17 1/2	23 1/2	23 1/2	23 1/2
WEIGHT IN POUNDS *										
FRAME AND COVER		60	60	60	110	110	110	155	155	155

* THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE. THE MECHANICAL CONNECTION (INSIDE AND OUTSIDE) TO THE PULL BOX, SHALL BE TOTALLY AND PERMANENTLY SEALED WITH A SILICONE OR RUBBERIZED CAULKING COMPOUND AS APPROVED BY THE ENGINEER.

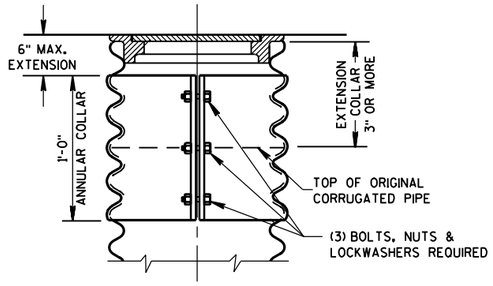
GROUNDING LUGS ARE NOT REQUIRED IN PULL BOXES WHEN VOLTAGES OF LESS THAN 50 VOLTS AC ARE THE ONLY VOLTAGES ENCOUNTERED IN THE BOXES.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

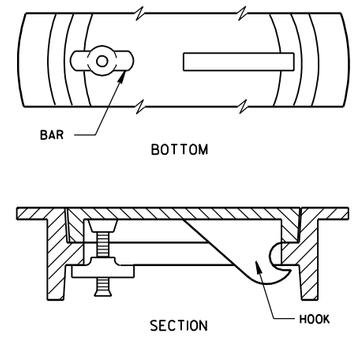
S.D.D. 9B2, "CONDUIT", APPLIES TO THIS DRAWING.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.

IF PULL BOX EQUIPMENT GROUNDING IS REQUIRED USING AN EQUIPMENT GROUNDING ELECTRODE IN EACH PULL BOX, THE EQUIPMENT GROUNDING ELECTRODE SHALL BE 5/8" X 8'-0", COPPERCLAD AND BE EXOTHERMICALLY WELDED TO A #4 AWG. COPPER, STRANDED WIRE (BARE OR GREEN INSULATED). THE #4 AWG WIRE SHALL BE 4 FEET IN LENGTH, NEATLY COILED, TAPED AND AVAILABLE FOR USE WHEN REQUIRED.

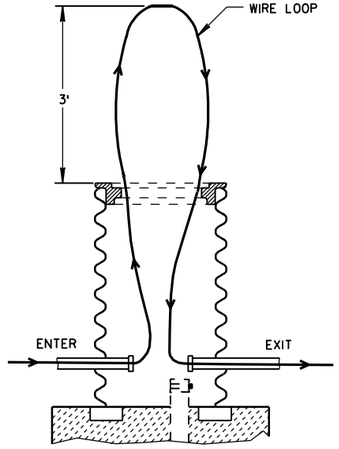


CORRUGATED PIPE EXTENDER

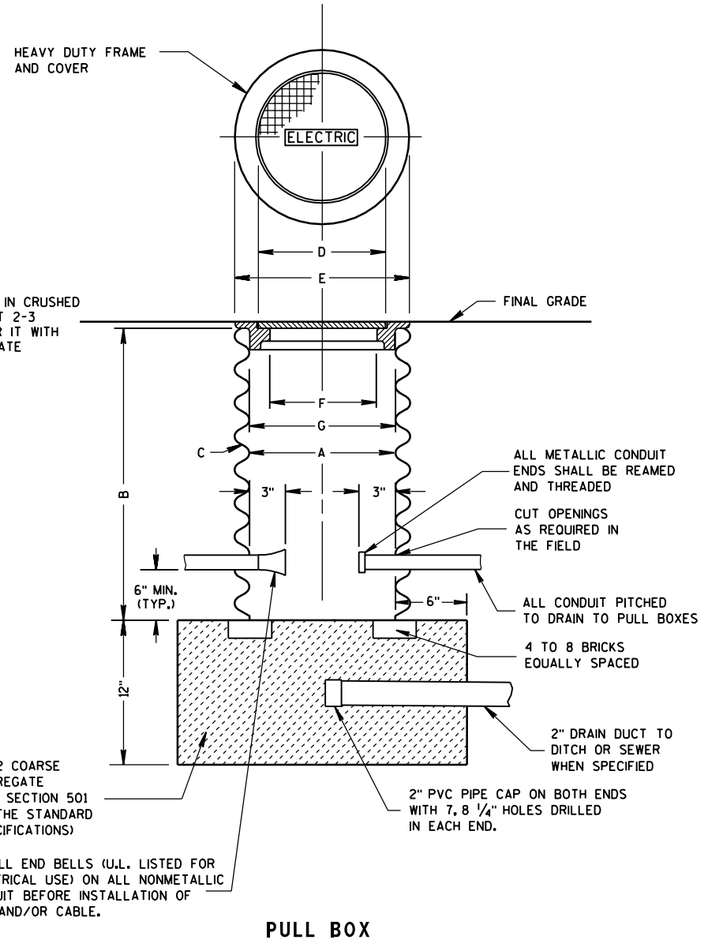


ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE

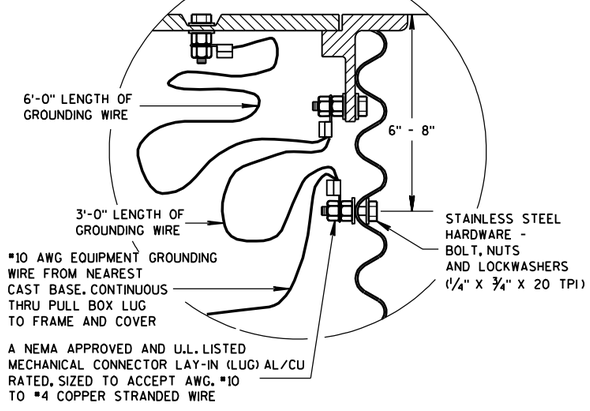


MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX



WHEN A PULL BOX IS INSTALLED IN CRUSHED AGGREGATE SHOULDERS, PLACE IT 2-3 INCHES BELOW GRADE AND COVER IT WITH 2-3 INCHES OF CRUSHED AGGREGATE

PULL BOX



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

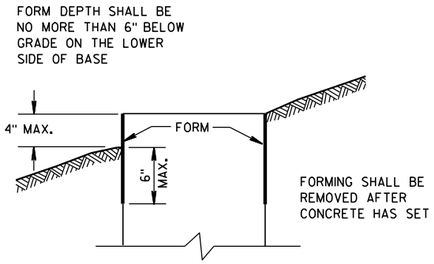
PULL BOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/27/06 DATE
/S/ Balu Ananthanarayanan
STATE ELECTRICAL ENGINEER FOR HIGHWAYS
FHWA

6

S.D.D. 9 B 4-9



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

GENERAL NOTES (CONTINUED)

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2 AND TYPE 5 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE OF THE TYPE 2 AND TYPE 5 BASES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 AND 641.2.2 OF THE STANDARD SPECIFICATIONS, ASTM A-449, OR ASTM A-687 (GRADE 105).

WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4" "L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND END SHALL NOT BE THREADED.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

(2) (4) 1" DIA. X 3'-6" ANCHOR RODS.

(3) (4) 1" DIA. X 5'-0" ANCHOR RODS.

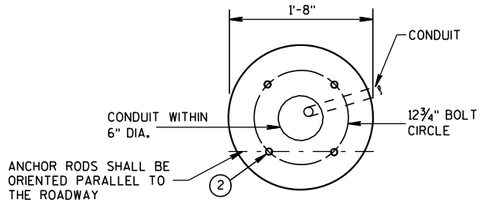
(4) (6) NO. 6 X 6'-8" BAR STEEL REINFORCEMENT.

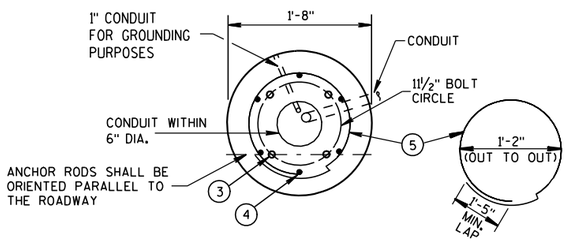
(5) (7) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

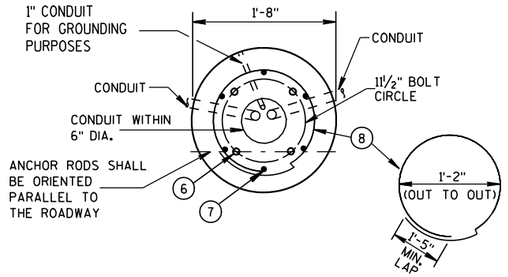
(6) (4) 1" DIA. X 3'-6" ANCHOR RODS.

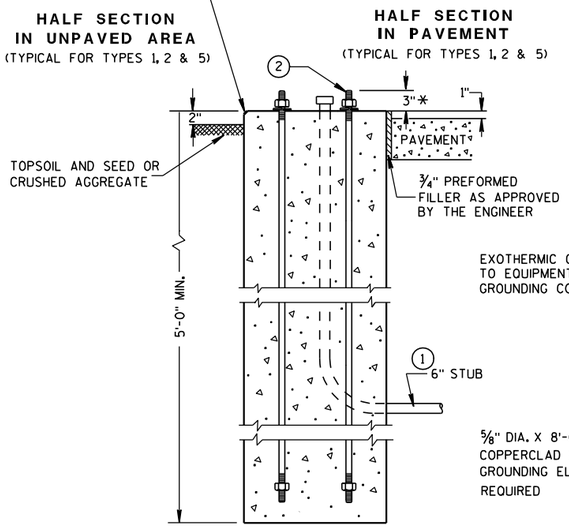
(7) (6) NO.4 X 4'-8" BAR STEEL REINFORCEMENT.

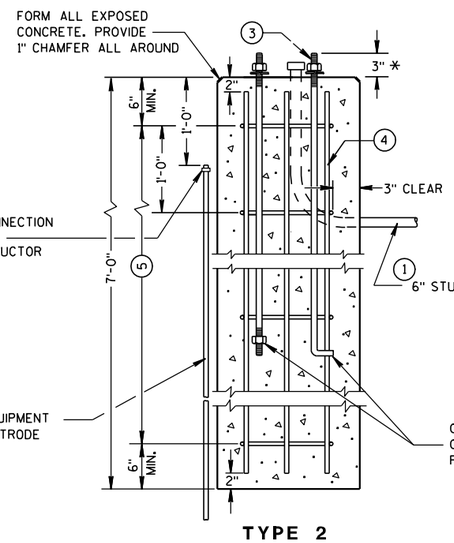
(8) (5) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

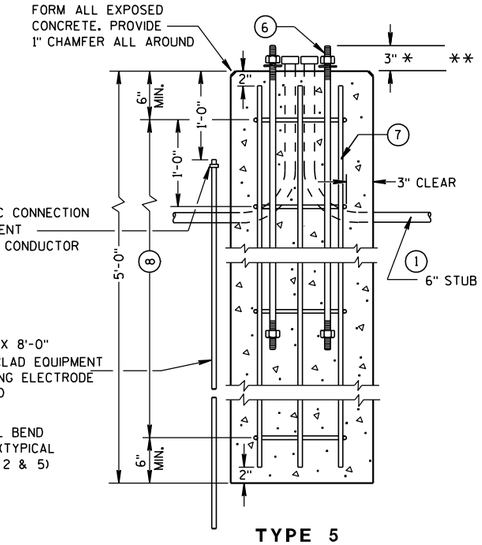












CONCRETE BASES

* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 3¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

** FOR NONBREAKAWAY INSTALLATIONS, 4½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

CONCRETE BASES, TYPES 1, 2 & 5

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/3/10	/S/ Joanna L. Bush
DATE	STATE ELECTRICAL ENGINEER FOR HIGHWAYS

FHWA

6

S.D.D. 9 C 2-6

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 641.2.2 OF THE STANDARD SPECIFICATIONS, ASTM A-325, (92,000 YIELD) HEAVY HEX NUT AND BE GALVANIZED IN ACCORDANCE WITH ASTM A-153, CLASS C.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED AND U.L. LISTED MECHANICAL CONNECTOR (LUG) AL/CU RATED AND SIZED TO ACCEPT #10 AWG STRANDED WIRE, SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

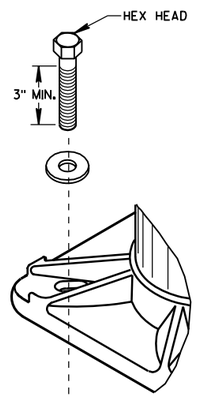
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

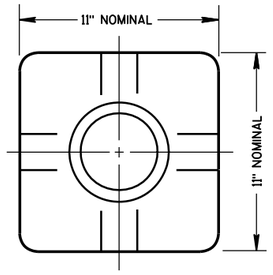
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

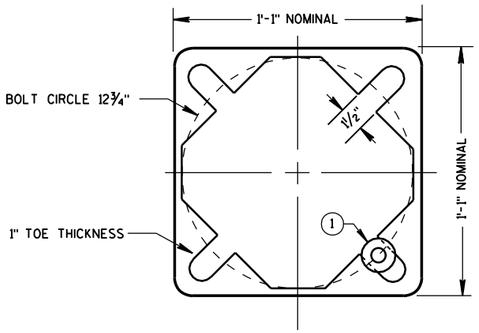
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

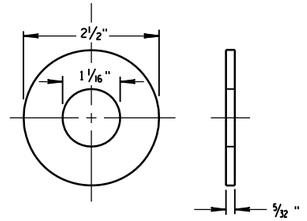




TOP VIEW
(PEDESTAL BASE)

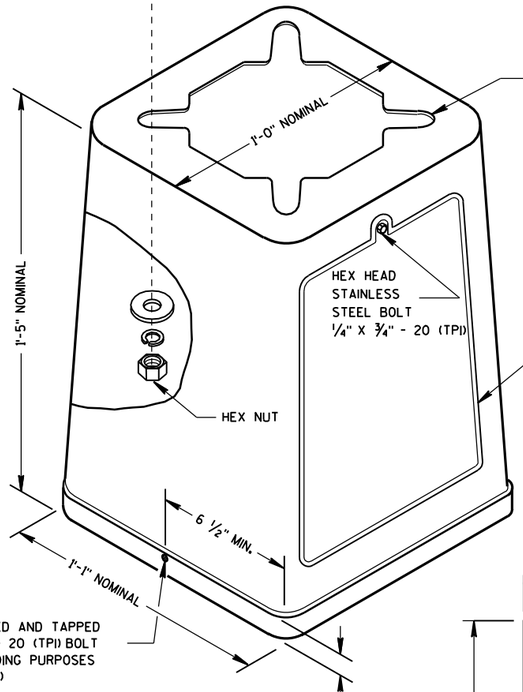


BOTTOM VIEW
(PEDESTAL BASE)

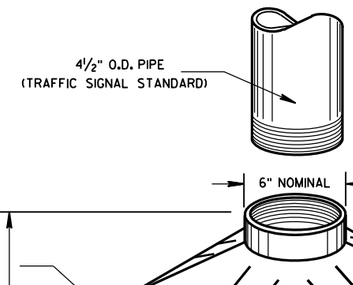


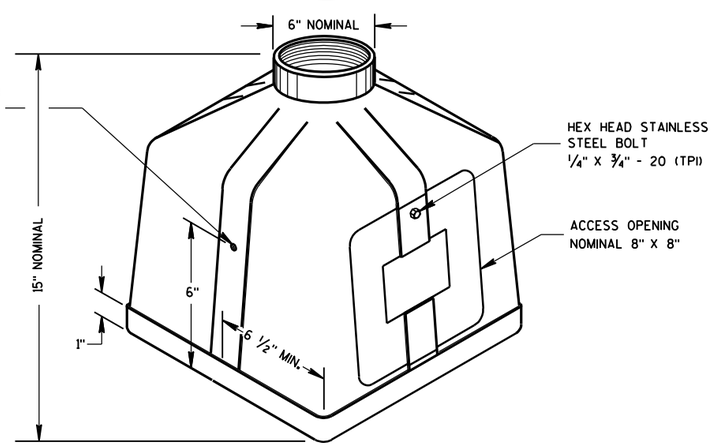
ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

PEDESTAL BASE WASHER (1)

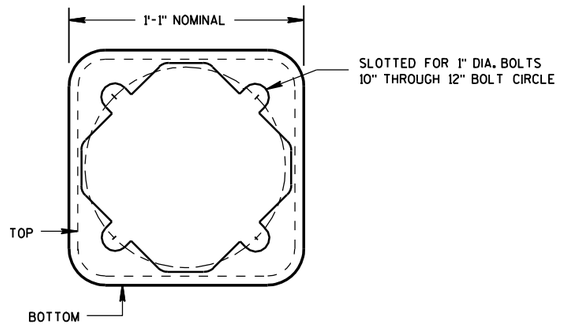


ISOMETRIC VIEW

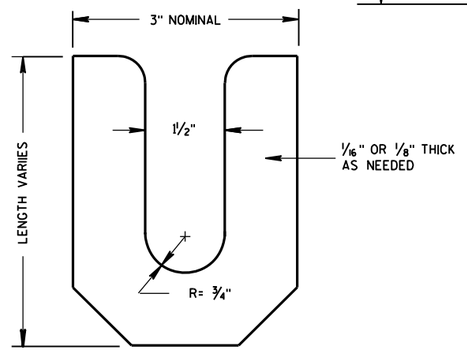




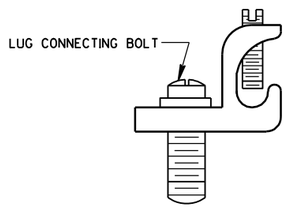
ISOMETRIC VIEW
PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)



LEVELING SHIM



TYPICAL MECHANICAL CONNECTOR LUG
TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE
INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES

TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/27/09
DATE
FHWA

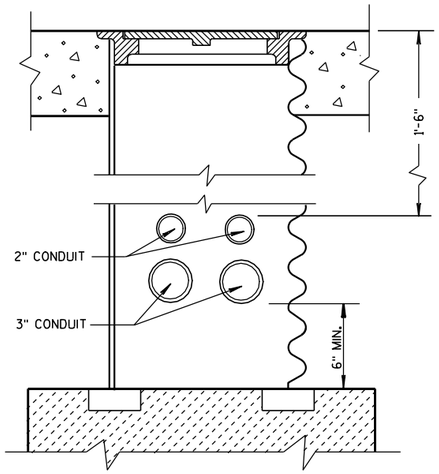
/S/ Joanna L. Bush
STATE ELECTRICAL ENGINEER FOR HIGHWAYS

6

S.D.D. 9 C 3-3

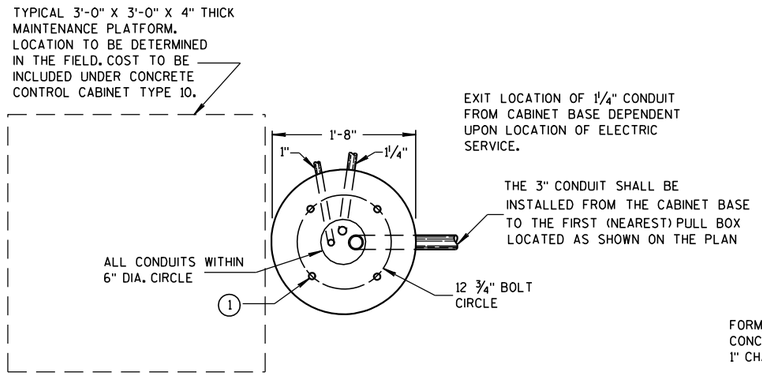
CONTROL CABINET BASE TYPE	DIMENSIONS				C.Y. CONCRETE (APPROX.)
	H	I	J	K	
TYPE 6 - 30" CABINET	34"	60"	10"	17"	.64
TYPE 7 - 38" CABINET	42"	60"	10"	21"	.93
TYPE 8 - 38" CABINET	42"	72"	12"	21"	1.29
TYPE 9 - VARIABLE	54"	72"	14"	27"	1.56
TYPE 10 - POST MOUNT	AS SHOWN				.65 *

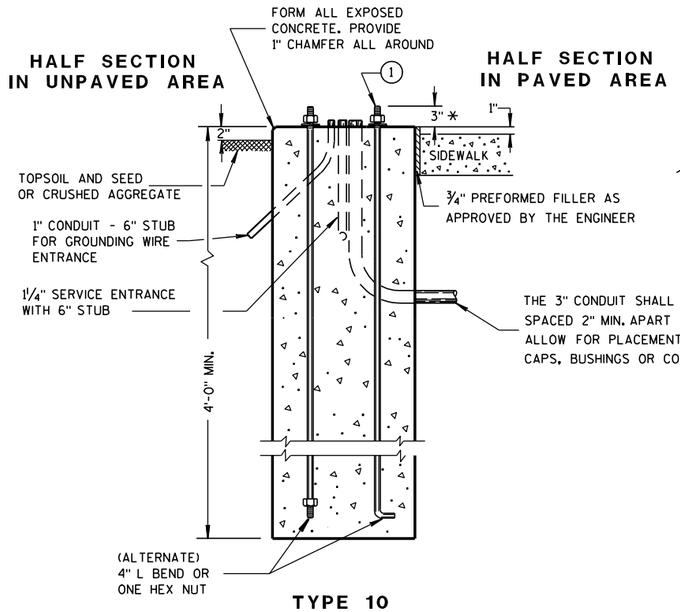
* INCLUDES MAINTENANCE PLATFORM.



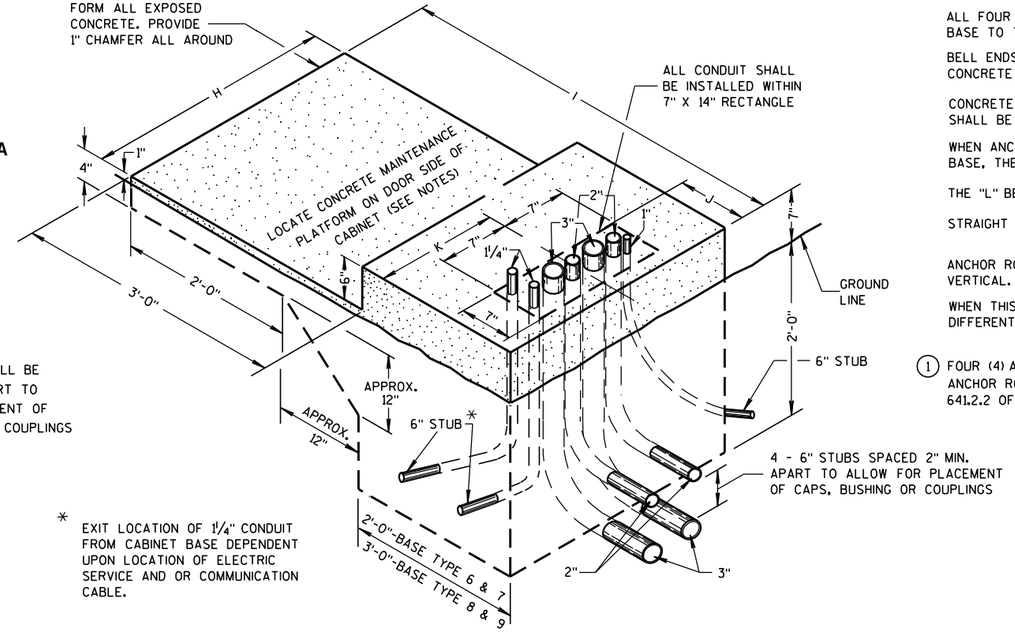
CONDUIT LOCATIONS IN 24" X 36" PULL BOX

(LEADING TO CONTROLLER CABINET BASE TYPE 6, 7, 8 AND 9)





TYPE 10



TYPE 6, 7, 8 AND 9
(ISOMETRIC VIEW)

* EXIT LOCATION OF 1¼" CONDUIT FROM CABINET BASE DEPENDENT UPON LOCATION OF ELECTRIC SERVICE AND OR COMMUNICATION CABLE.

* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 3¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

INSTALL FOUR ½ INCH MINIMUM DIAMETER X 4 INCH MINIMUM LENGTH APPROVED CONCRETE MASONRY ANCHORS TO ANCHOR THE CABINET TO TYPE 6, 7, 8, AND 9 BASES. THE ANCHOR STUDS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

WHEN A TYPE 10 CONTROL CABINET BASE IS USED TO POST MOUNT A CONTROL CABINET, A 36" SQUARE 4" THICK CONCRETE MAINTENANCE PLATFORM SHALL BE REQUIRED ON THE DOOR SIDE OF THE CABINET. THE TOP 1 INCH SHALL BE ABOVE FINISHED GRADE AND BE BROOM FINISHED AND LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

ALL FOUR (TWO INCH AND THREE INCH) CONDUIT SHALL BE INSTALLED FROM THE CABINET BASE TO THE FIRST (NEAREST PULL BOX LOCATED AS SHOWN ON THE PLANS.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

WHEN ANCHOR RODS USING THE ALTERNATE L BEND ARE FURNISHED FOR THE TYPE 10 BASE, THE 4" L BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH.

THE "L" BEND SHALL NOT BE THREADED.

STRAIGHT ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WHEN THIS DRAWING IS USED FOR STREET LIGHTING CABINET BASES, CONDUIT MAY BE DIFFERENT AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER.

(1) FOUR (4) ANCHOR RODS, 1" DIA. X 3'-6"
ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 AND 641.2.2 OF THE STANDARD SPECIFICATIONS.

CONCRETE CONTROL CABINET BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/3/10
DATE

/S/ Joanna L. Bush
STATE ELECTRICAL ENGINEER FOR HIGHWAYS

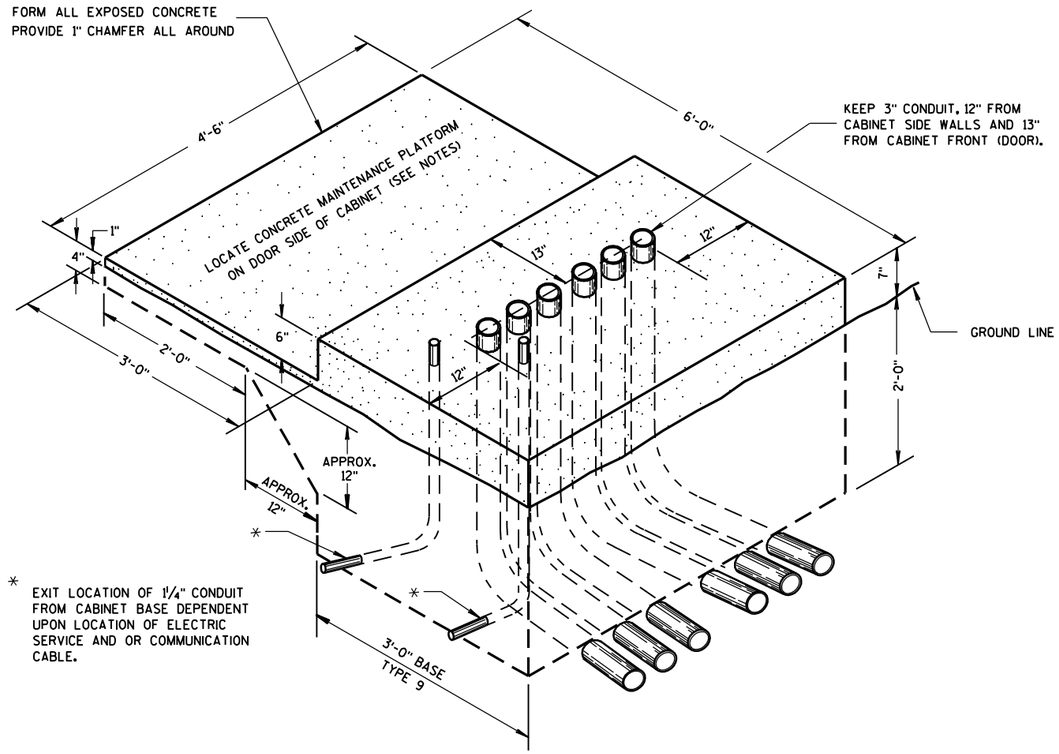
FHWA

6

S.D.D. 9 C 5-7

6

S.D.D. 9 C 5-7

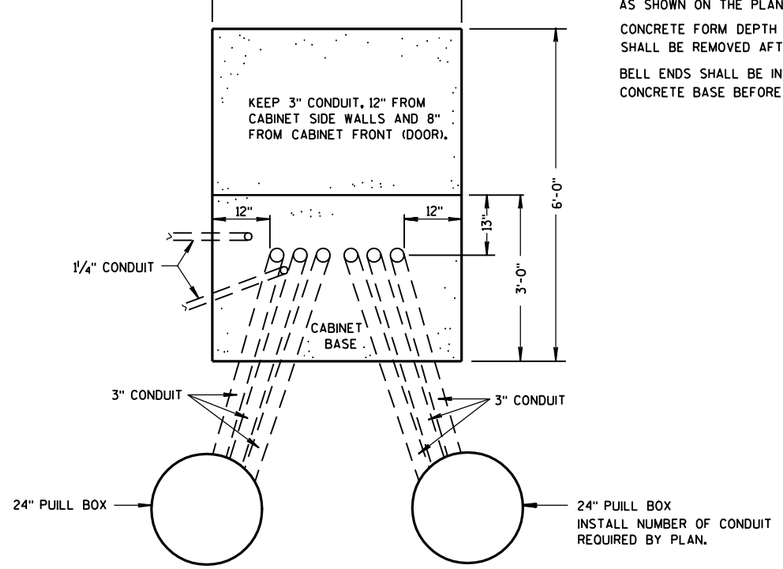


* EXIT LOCATION OF 1¼" CONDUIT FROM CABINET BASE DEPENDENT UPON LOCATION OF ELECTRIC SERVICE AND OR COMMUNICATION CABLE.

ISOMETRIC VIEW

TYPE 9, SPECIAL

(C.Y. CONCRETE = APPROX. 1.56)



PLAN VIEW

CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

INSTALL FOUR ½ INCH MINIMUM DIAMETER X 4 INCH MINIMUM LENGTH STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS TO ANCHOR THE CABINET TO TYPE 6, 7, 8, AND 9 BASES. THE ANCHOR STUDS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND BE LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

PLUG ALL BELOW GRADE NONMETALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

CONDUIT EXITING THE CONCRETE BASE (SIX THREE INCH) SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

2/27/07 — DATE

/S/ Balu Ananthanarayanan — STATE ELECTRICAL ENGINEER FOR HIGHWAYS

FHWA

6

S.D.D. 9 C 6-5

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL ENTER THE BASE THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE 1" X 3'-6".

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 AND 641.2.2 OF THE STANDARD SPECIFICATIONS.

WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4" "L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND END SHALL NOT BE THREADED.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

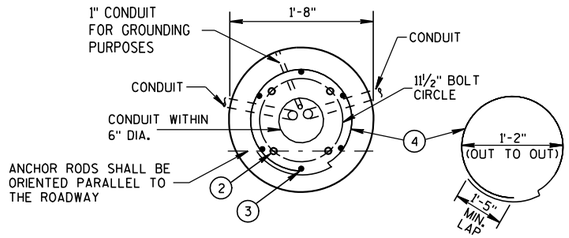
BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

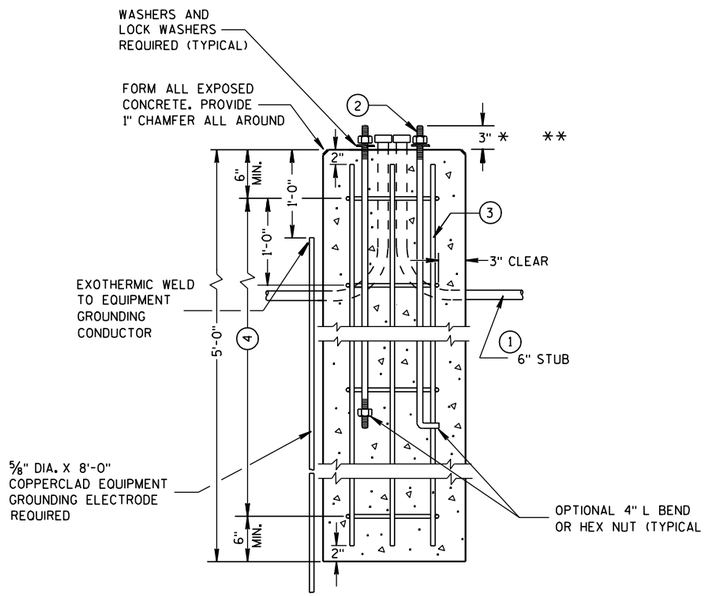
(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

(2) (4) 1" DIA. X 3'-6" ANCHOR RODS

(3) (6) NO. 4 X 4'-8" BAR STEEL REINFORCEMENT.

(4) (5) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.



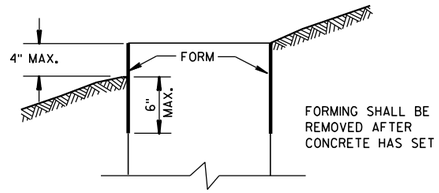


CONCRETE BASE, TYPE 6 (FOR 35' LIGHT POLES)

* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 3¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

** FOR NONBREAKAWY INSTALLATIONS, 4½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

FORM DEPTH SHALL BE NO MORE THAN 6" BELOW GRADE ON THE LOWER SIDE OF BASE



FORMING DETAIL

QUANTITY REQUIREMENTS	
APPROX. CUBIC YARDS OF CONCRETE	0.4
LBS. OF HOOP BAR STEEL	16
LBS. OF VERTICAL BAR STEEL	18

CONCRETE BASE, TYPE 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/3/10
DATE

/S/ Joanna L. Bush
STATE ELECTRICAL ENGINEER FOR HIGHWAYS

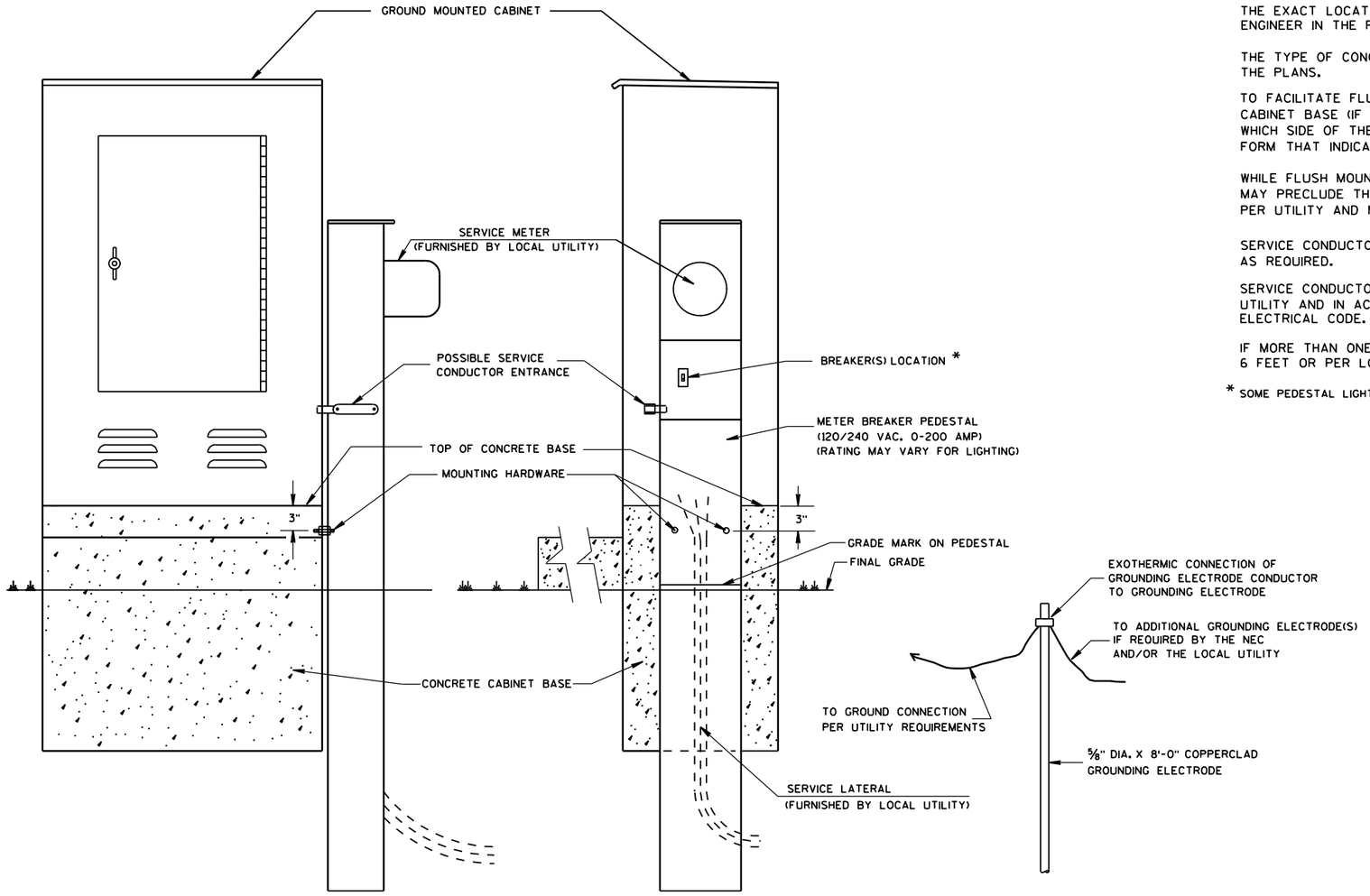
FHWA

6

S.D.D. 9 C 7-4

6

S.D.D. 9 C 7-4



TYPICAL CABINET SERVICE INSTALLATION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EXACT LOCATION OF THE METER BREAKER PEDESTAL SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE TYPE OF CONCRETE CABINET BASE TO BE INSTALLED SHALL BE AS CALLED FOR IN THE PLANS.

TO FACILITATE FLUSH MOUNTING OF THE METER BREAKER PEDESTAL AGAINST THE SIDE OF THE CABINET BASE (IF FLUSH MOUNTING POSSIBLE. CONFER WITH THE LOCAL UTILITY TO DETERMINE WHICH SIDE OF THE CONCRETE BASE THE ELECTRICAL SERVICE LATERAL WILL APPROACH. THEN FORM THAT INDICATED SIDE FOR FULL SIDE DEPTH.

WHILE FLUSH MOUNTING IS THE MOST DESIRABLE MOUNTING CONFIGURATION UTILITY REQUIREMENTS MAY PRECLUDE THIS OPTION. CONTRACTOR MUST PROVIDE UTILITY APPROVED PEDESTAL AND INSTALL PER UTILITY AND MANUFACTURERS REQUIREMENTS.

SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID METALLIC CONDUIT, NIPPLES AND/OR CONDULETS AS REQUIRED.

SERVICE CONDUCTOR ENTRANCES SHALL BE SIZED AND LOCATED AS REQUIRED BY THE LOCAL UTILITY AND IN ACCORDANCE WITH APPROPRIATE ARTICLES OF THE LATEST ACCEPTED NATIONAL ELECTRICAL CODE.

IF MORE THAN ONE GROUNDING ELECTRODE IS REQUIRED, THE DISTANCE APART SHALL BE 6 FEET OR PER LOCAL UTILITY REGULATIONS.

* SOME PEDESTAL LIGHTING PLANS SHOW MAIN LUGS ONLY.

6

S.D.D. 9 D 1-4

CABINET SERVICE INSTALLATION
(METER BREAKER PEDESTAL)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

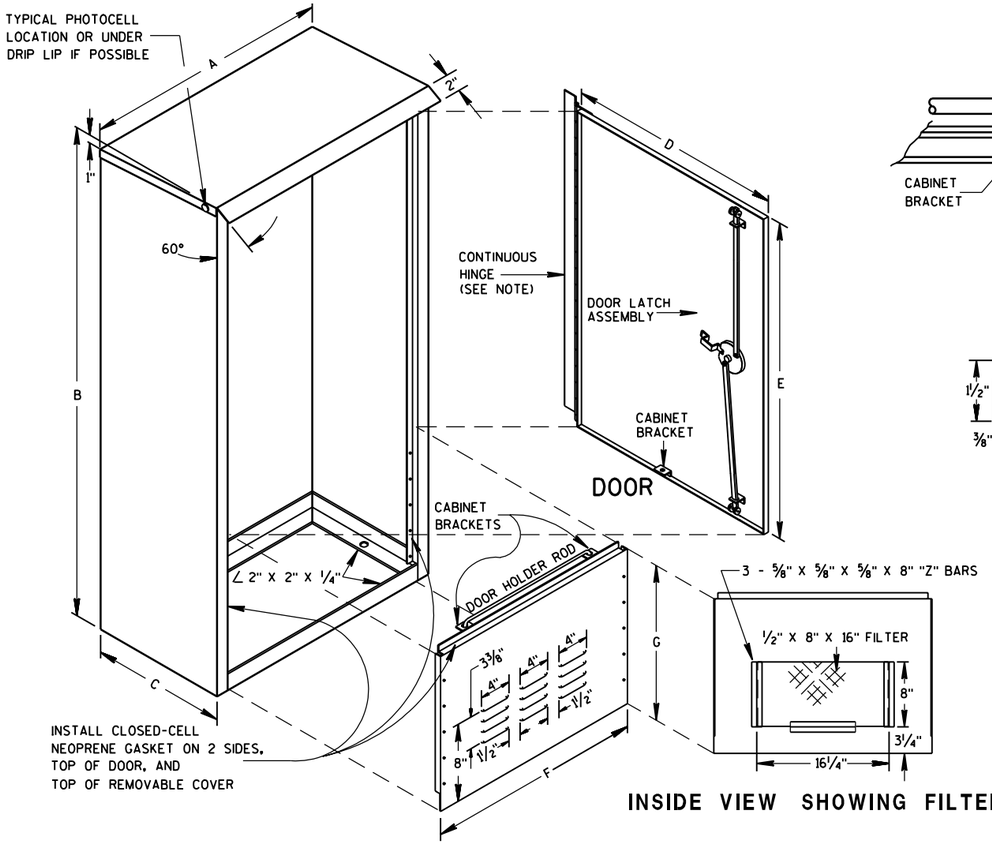
10/27/09
DATE

/S/ Joanna L. Bush
STATE ELECTRICAL ENGINEER FOR HIGHWAYS

FHWA

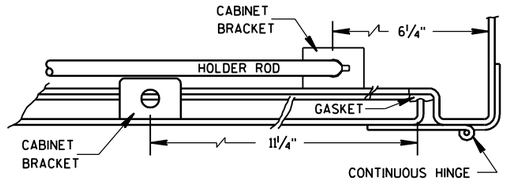
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S.D.D. 9 D 1-4

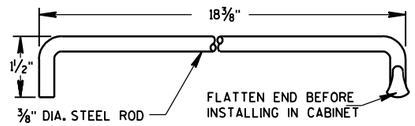


REMOVABLE COVER

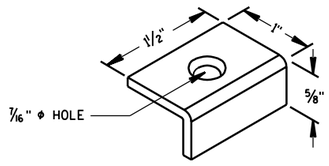
INSIDE VIEW SHOWING FILTER



HINGE & DOOR HOLDER



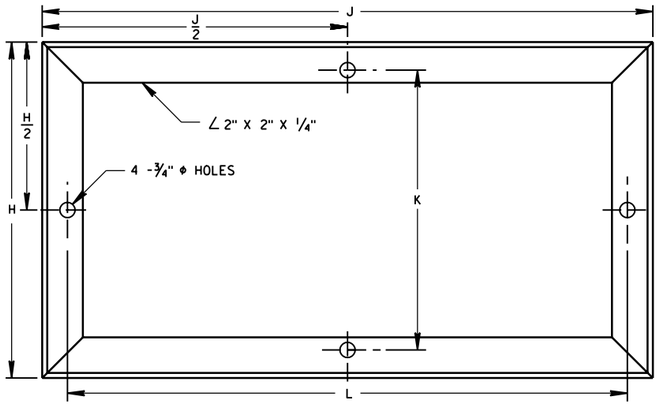
HOLDER ROD



CABINET BRACKET

TABLE OF DIMENSIONS (INCHES)

MARK	CABINET TYPE		
	3060	3860	3866
A	30	38	38
B	60	60	66
C	16 1/2	16 1/2	24
D	26 1/2	34 3/4	33 3/4
E	38 3/4	38 3/4	38 3/4
F	26 1/2	34 3/4	33 3/4
G	19	19	25
H	16 1/2	16 1/2	24
H/2	8 1/4	8 1/4	12
J	30	38	38
J/2	15	19	19
K	13 3/4	13 3/4	21 1/4
L	27 1/2	35 1/2	35 1/2



MOUNTING BASE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

PRIME WITH PHOSPHATE TREATMENT AND PRIMER.

FINISH EXTERIOR SURFACES WITH RUSTOLEUM #906 SILVER GRAY OR APPROVED EQUAL.

FINISH INTERIOR WITH RUSTOLEUM #2766 HIGH GLOSS WHITE ENAMEL OR APPROVED EQUAL.

ALL SHEET METAL PARTS SHALL BE .125 INCH THICK ALUMINUM.

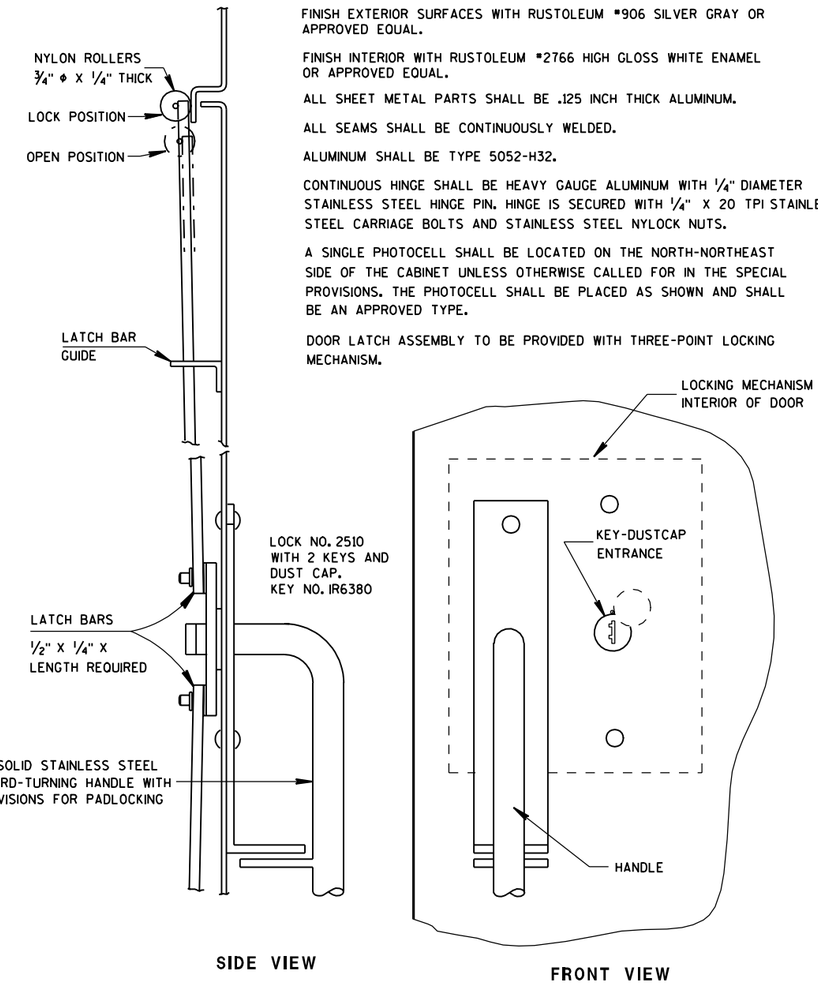
ALL SEAMS SHALL BE CONTINUOUSLY WELDED.

ALUMINUM SHALL BE TYPE 5052-H32.

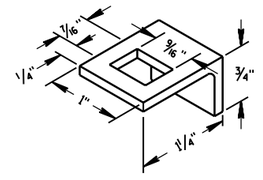
CONTINUOUS HINGE SHALL BE HEAVY GAUGE ALUMINUM WITH 1/4" DIAMETER STAINLESS STEEL HINGE PIN. HINGE IS SECURED WITH 1/4" X 20 TPI STAINLESS STEEL CARRIAGE BOLTS AND STAINLESS STEEL NYLOCK NUTS.

A SINGLE PHOTOCELL SHALL BE LOCATED ON THE NORTH-NORTHEAST SIDE OF THE CABINET UNLESS OTHERWISE CALLED FOR IN THE SPECIAL PROVISIONS. THE PHOTOCELL SHALL BE PLACED AS SHOWN AND SHALL BE AN APPROVED TYPE.

DOOR LATCH ASSEMBLY TO BE PROVIDED WITH THREE-POINT LOCKING MECHANISM.



LATCH ASSEMBLY



LATCH BAR GUIDE

SIGNAL OR LIGHTING CONTROL CABINET

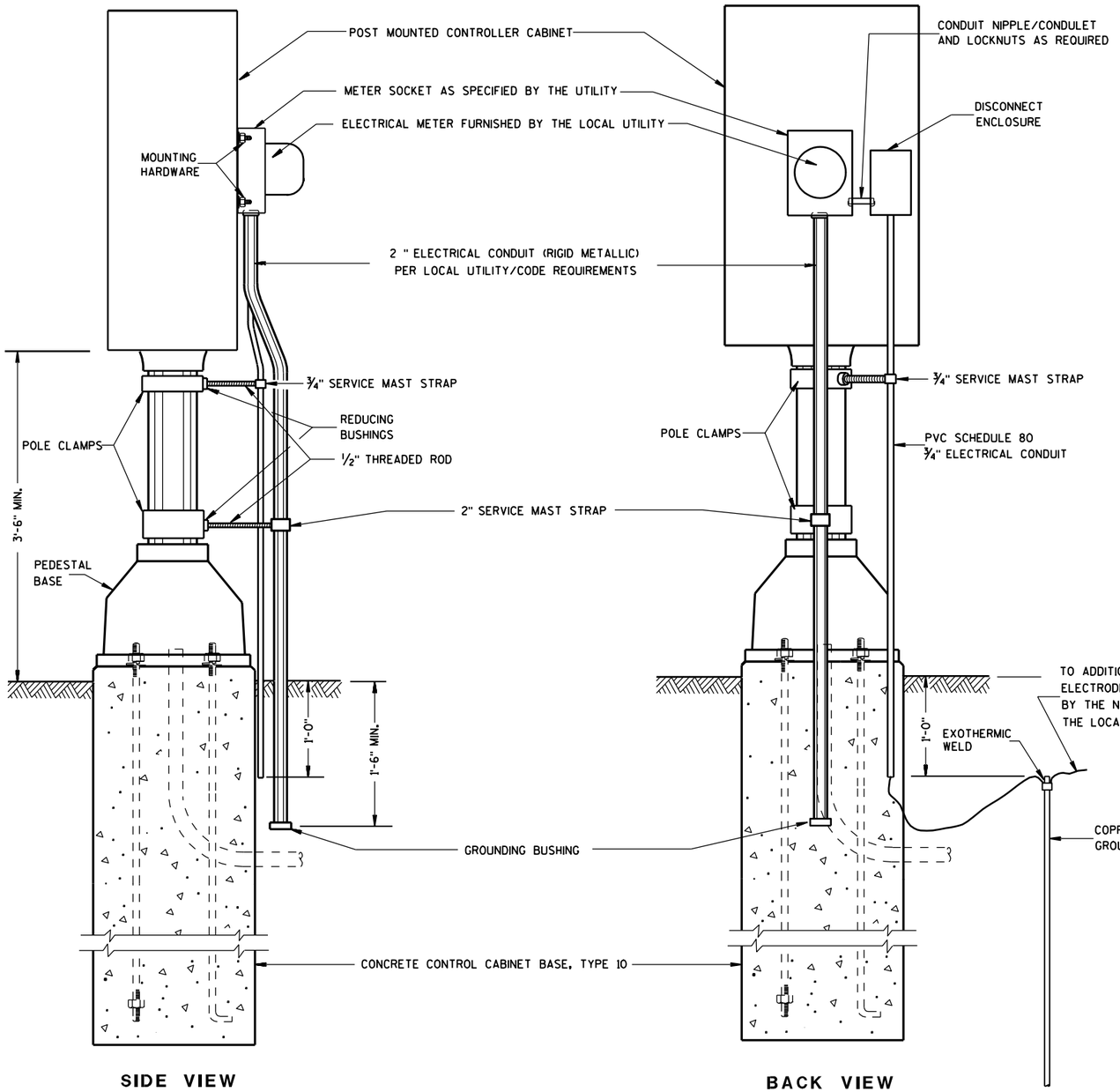
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/21/96
DATE
FHWA

STATE ELECTRICAL ENGINEER FOR HIGHWAYS

6

S.D.D. 9 D 2-2



GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID STEEL OR SCHEDULE 80 PVC ELECTRICAL CONDUIT. NIPPLES AND/OR CONDULETS, WITH LOCK NUTS AND GROUNDING BUSHINGS AS REQUIRED BY THE N.E.C. OR THE LOCAL UTILITY.

SERVICE CONDUCTOR ENTRANCES SHALL BE SIZED AS REQUIRED AND IN ACCORDANCE WITH APPROPRIATE ARTICLES OF THE LATEST ACCEPTED ELECTRICAL CODE.

POST MOUNTED CONTROLLER SERVICE INSTALLATION

POST MOUNTED CONTROLLER SERVICE INSTALLATION

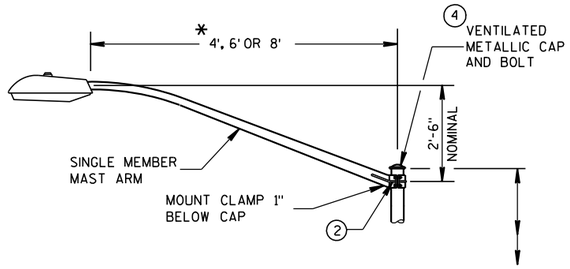
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

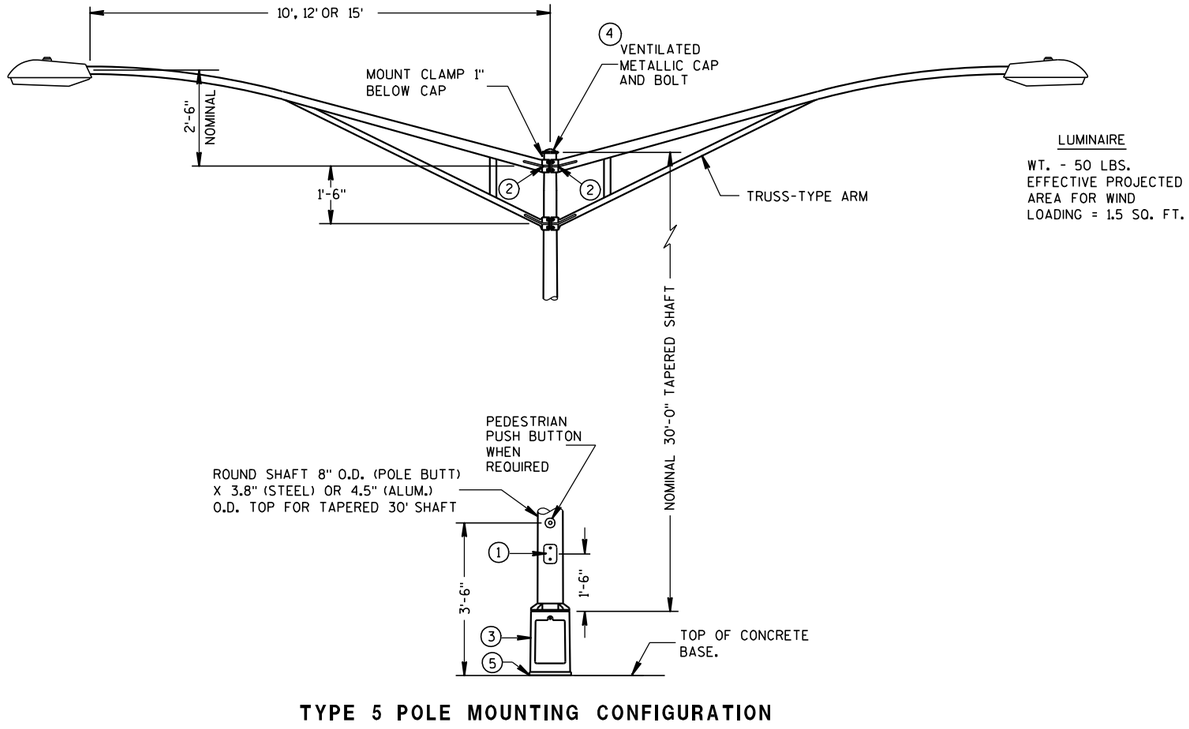
APPROVED 3/24/03 DATE
STATE ELECTRICAL ENGINEER FOR HIGHWAYS
FHWA

6

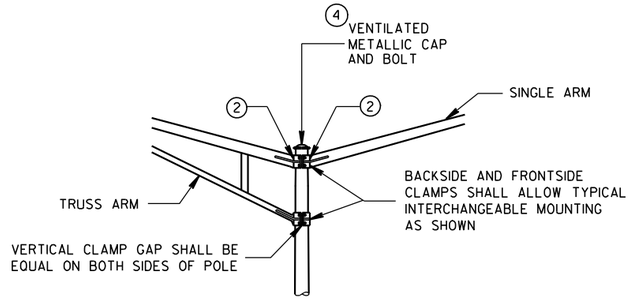
S.D.D. 9 D 3-2

*RISE FOR 4' ARM SHALL BE 2'-0".





TYPE 5 POLE MOUNTING CONFIGURATION
(MAXIMUM LOAD)
LIGHTING ONLY



INTERCHANGEABLE MOUNTING DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL TYPE 5 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL OR ALUMINUM, AS CALLED FOR IN THE CONTRACT.

TYPE 5 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063-T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

THE TYPE 5 ALUMINUM POLES SHALL HAVE A MINIMUM WALL THICKNESS OF 0.188".

TYPE 5 STEEL POLES SHALL HAVE A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (.1196").

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONEECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

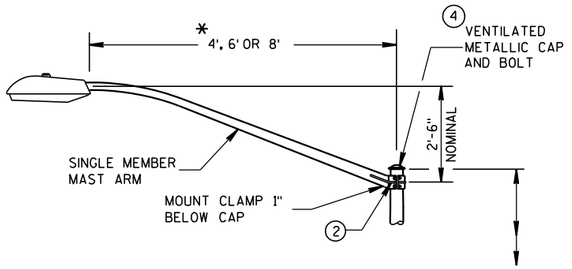
1. 4" x 6" REINFORCED HANDHOLE & COVER ASSEMBLY WITH 2 (TWO) ¼" X ¾" - 20 TPI HEX HEAD STAINLESS STEEL BOLTS.
2. GROMMETS, 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1⅜" HOLE IN POLE SHAFT FOR WIRING.
3. CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.
4. FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.
5. SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND THE TRANSFORMER BASE.

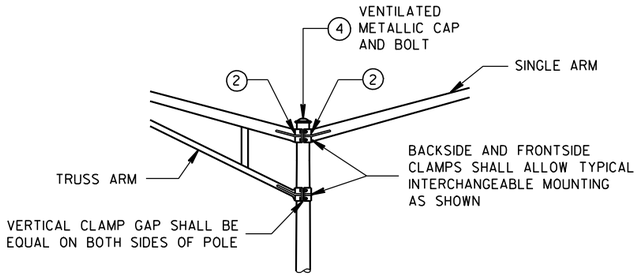
POLE MONTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

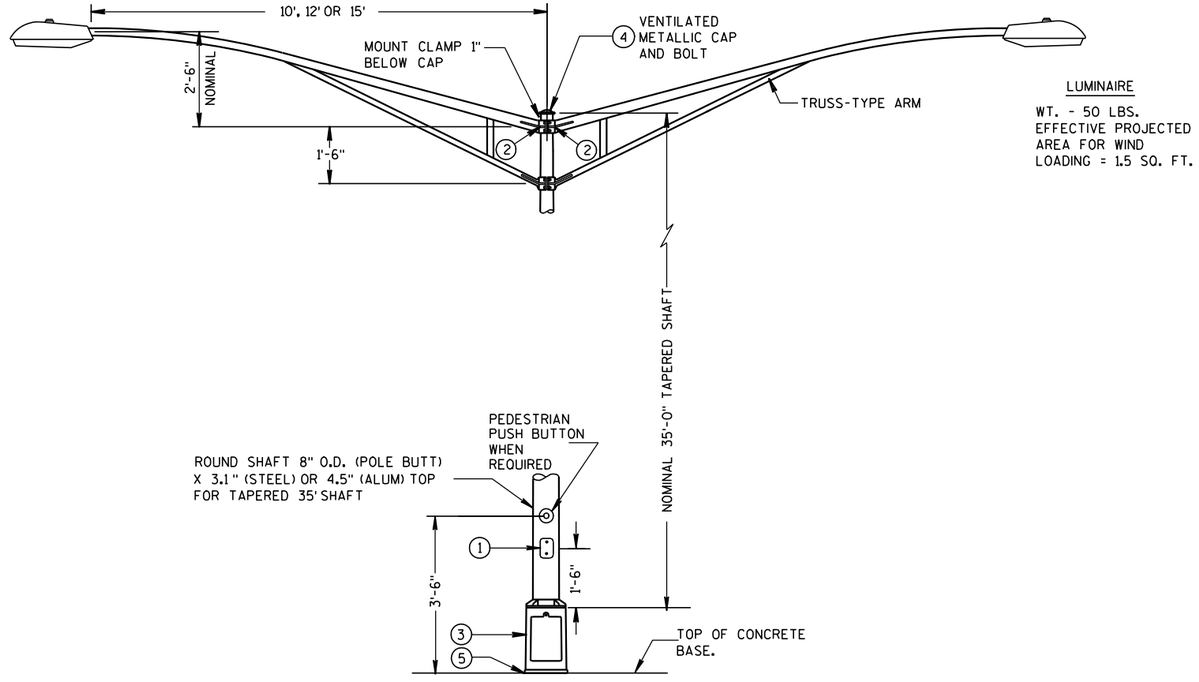
6
S.D.D. 9 E 1-11d

* RISE FOR 4' ARM SHALL BE 2'-0".





INTERCHANGEABLE MOUNTING DETAIL



LUMINAIRE

WT. - 50 LBS.
EFFECTIVE PROJECTED
AREA FOR WIND
LOADING = 1.5 SQ. FT.

TYPE 6 POLE MOUNTING CONFIGURATION

(MAXIMUM LOAD)

LIGHTING ONLY

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL TYPE 6 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE EITHER GALVANIZED STEEL OR ALUMINUM, AS CALLED FOR IN THE CONTRACT.

TYPE 6 ALUMINUM POLES, SHALL BE CONSTRUCTED OF 6063-T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

THE TYPE 6 ALUMINUM POLES SHALL HAVE MINIMUM WALL THICKNESS OF 0.219".

TYPE 6 STEEL POLES SHALL HAVE A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (.1196").

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

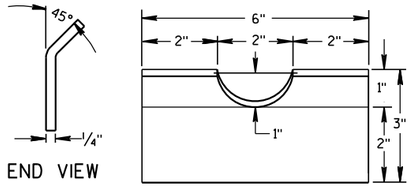
WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

1. 4" x 6" REINFORCED HANDHOLE & COVER ASSEMBLY WITH 2 (TWO) ¼" X ¾" - 20 TPI HEX HEAD STAINLESS STEEL BOLTS.
2. GROMMETS, 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1⅜" HOLE IN POLE SHAFT FOR WIRING.
3. CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.
4. FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.
5. SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND THE TRANSFORMER BASE.

POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 6 (35 FEET)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

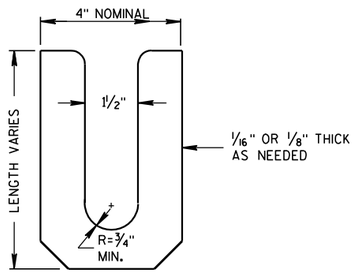
6
S.D.D. 9 E 1-11e



FRONT VIEW

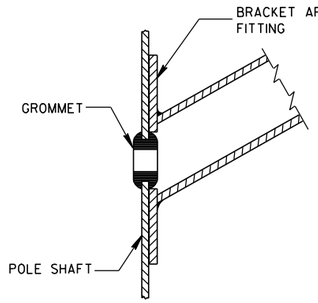
RECTANGULAR CLAMP SHIM

(4 TO A SET)

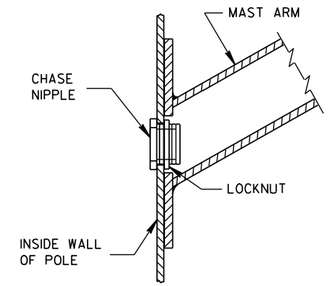


LEVELING SHIM (15)

SHALL BE ALUMINUM



TYPICAL APPLICATION OF GROMMET IN POLE SHAFT



TYPICAL APPLICATION OF CHASE NIPPLE IN POLE SHAFT

GENERAL NOTES

CLAMP BOLT-NUT TIGHTENING TORQUE SHALL BE INDICATED BY INDENT STAMPING (1/2 INCH NUMERALS AND LETTERS) OR WEATHERPROOF PRINTING ON THE INSIDE OF THE CLAMP THAT IS WELDED TO THE ARM MEMBER.

(10.) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP.
6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

(11.) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)

(12.) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(13.) OUTSIDE SHIM DIAMETER - (4.5" O.D. FOR LUMINAIRE MAST ARM)
(6.625" O.D. FOR TROMBONE MAST ARM)

(14.) VARIABLE SHIM THICKNESS - (0.10", 0.25", 0.35", 0.53" OR 0.70")

SHIM THICKNESS FOR TROMBONE MAST ARMS MAY BE TYPICALLY 0.25", 0.35", 0.53" OR 0.70".

SHIM THICKNESS FOR LUMINAIRE MAST ARMS MAY BE TYPICALLY 0.10", 0.25" OR 0.35".

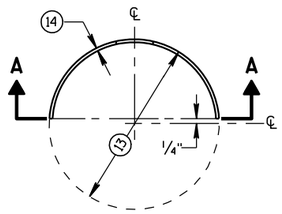
SHIM MATERIAL SHALL BE ALUMINUM ALLOY.

SHIM THICKNESS SHALL BE IMPRESSED INTO EACH SHIM. NUMERALS SHALL BE 1/4" HIGH AND LEGIBLE.

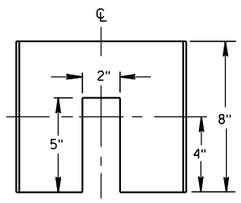
THE CONTRACTOR SHALL SUBMIT TWO COPIES OF ALL SHIM SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL.

(15.) LEVELING SHIMS, DESIGNED FOR THE PURPOSE, SHALL BE USED WHEN PLUMBING POLES. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE. LEVELING SHIMS SHALL BE USED ONLY BETWEEN THE TOP OF THE CONCRETE BASE AND A METALLIC BASE PLATE.

SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



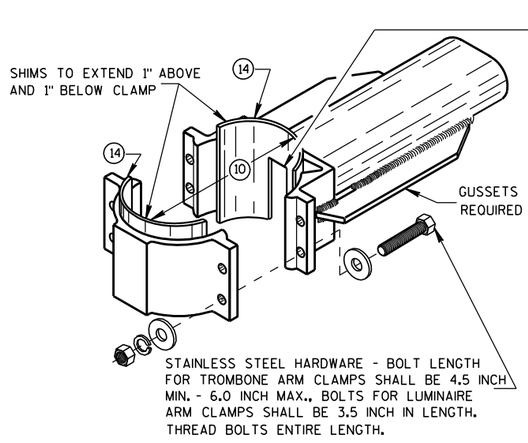
PLAN VIEW



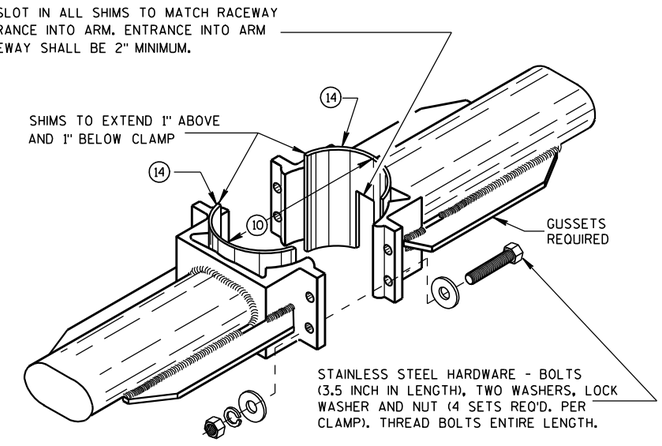
SECTION A-A

CIRCULAR CLAMP SHIM

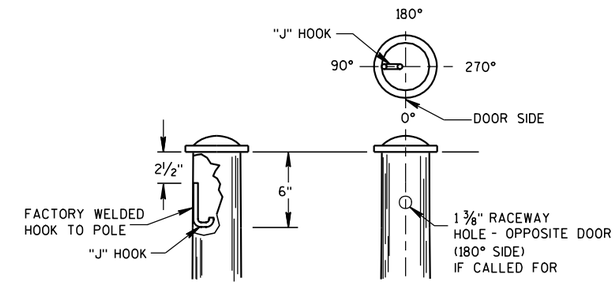
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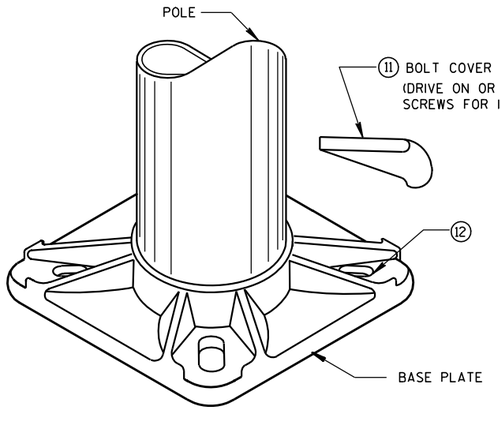
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



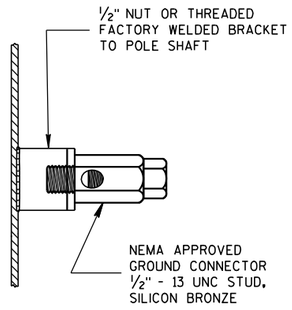
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

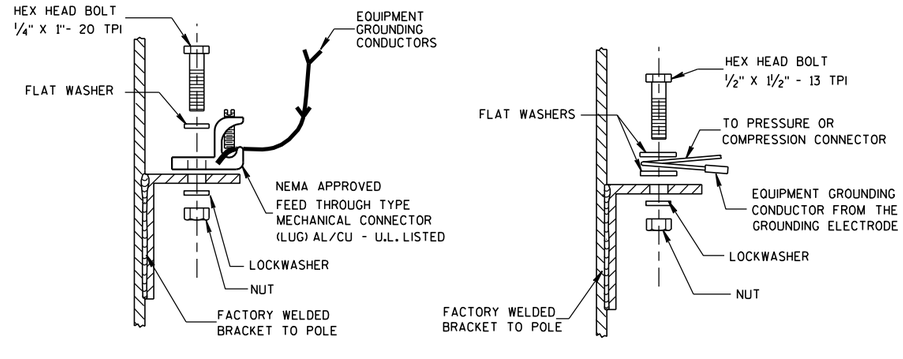


TYPICAL "J" HOOK LOCATION



BASE PLATE





TYPICAL GROUNDING CONNECTIONS

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL

HARDWARE DETAILS FOR POLE MOUNTINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

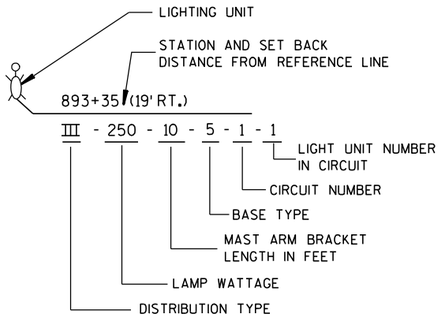
3/2/11 — DATE

/S/ Thomas J. Goerlinger — STATE ELECTRICAL ENGI 427 — HWYS

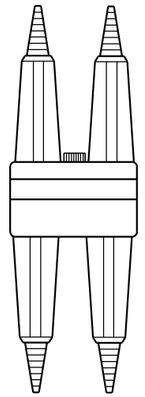
FHWA

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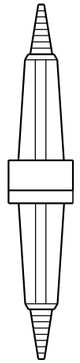
S.D.D. 9 E 1-11g



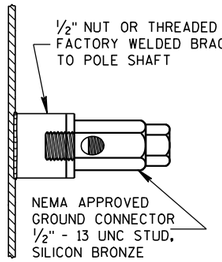
LIGHTING UNIT CODE
(TYPICAL)

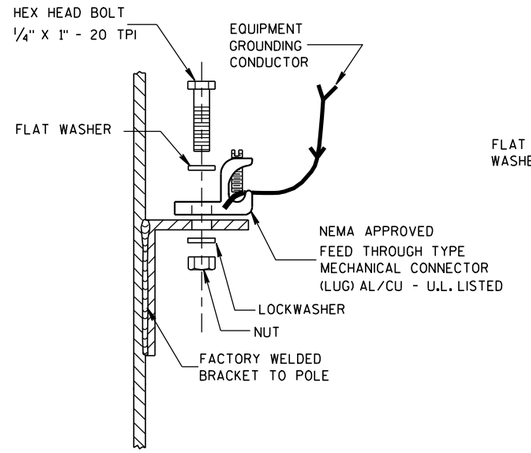


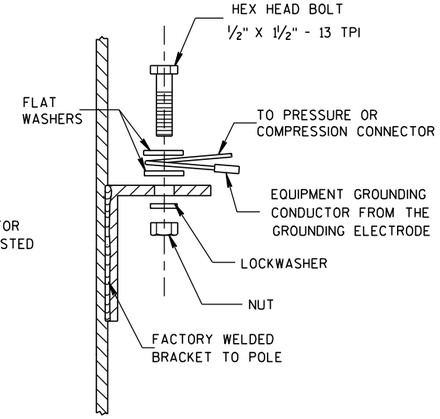
DETAIL "A"
BREAKAWY
DOUBLE POLE WITH
WATERPROOF
INSULATING BOOT



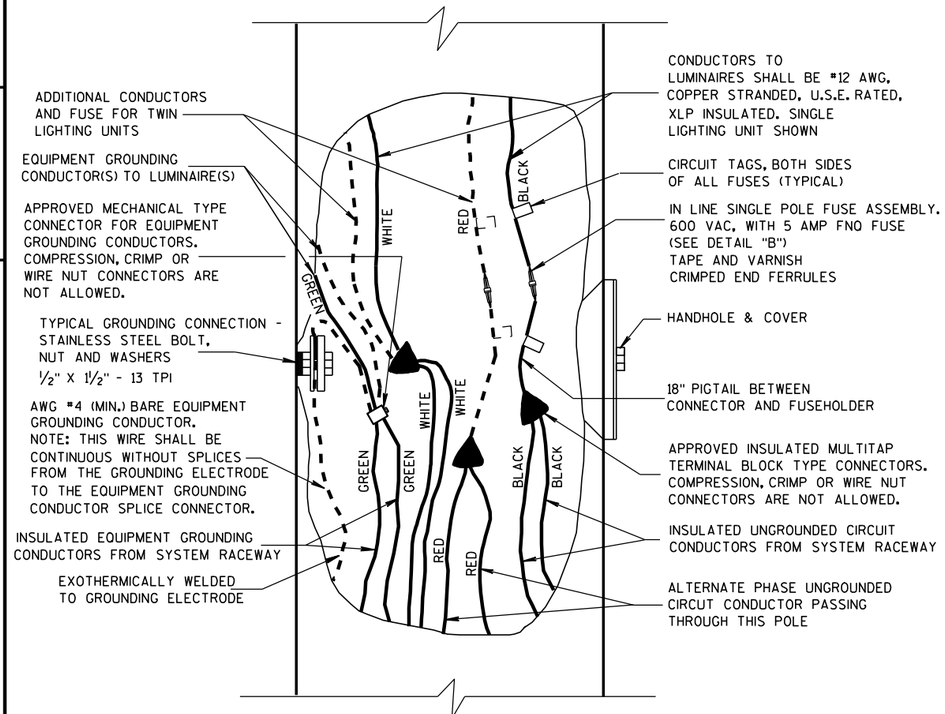
DETAIL "B"
BREAKAWY
SINGLE POLE WITH
WATERPROOF
INSULATING BOOT



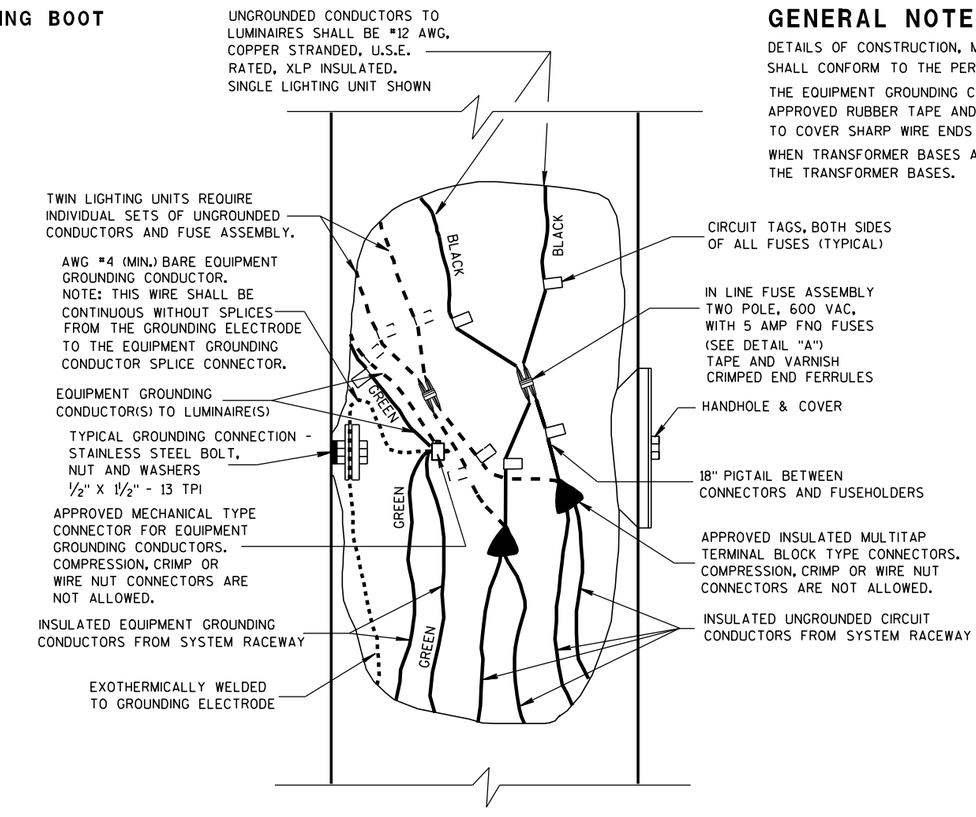




TYPICAL GROUNDING CONNECTIONS
NUT, BOLT, WASHERS AND LOCKWASHERS SHALL BE STAINLESS STEEL



3 WIRE - 120, 240 OR 480 VAC (UNGROUNDED CONDUCTOR) WITH GROUNDED CONDUCTOR AND WITH EQUIPMENT GROUNDING CONDUCTOR



2 WIRE - 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH EQUIPMENT GROUNDING CONDUCTOR

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EQUIPMENT GROUNDING CONNECTOR SHALL BE TAPED WITH 3 WRAPS (MINIMUM) OF APPROVED RUBBER TAPE AND THEN 3 WRAPS (MINIMUM) OF APPROVED VINYL TAPE TO COVER SHARP WIRE ENDS AFTER THE CONNECTION IS COMPLETED.

WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.

NON-FREEWAY LIGHTING UNIT POLE WIRING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

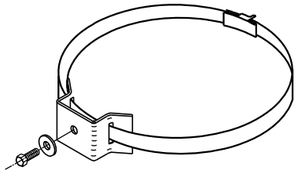
3/2/2011
DATE

/S/ Thomas J. Gosnell
STATE ELECTRICAL ENGI

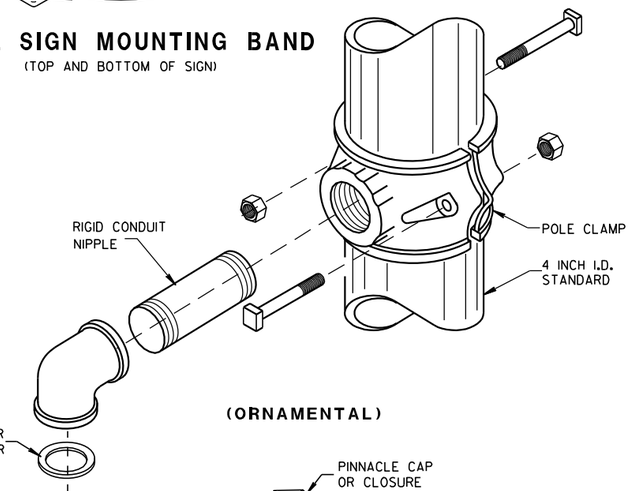
HWYS

FHWA

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S.D.D. 9 E 3-4



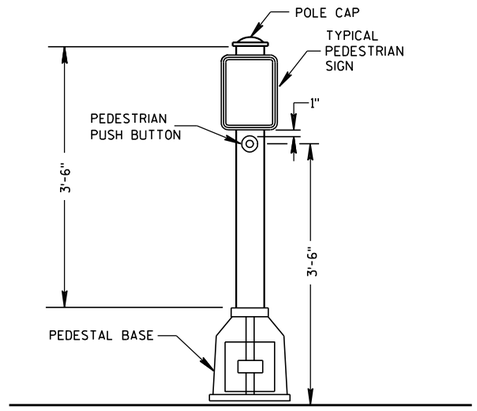
TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



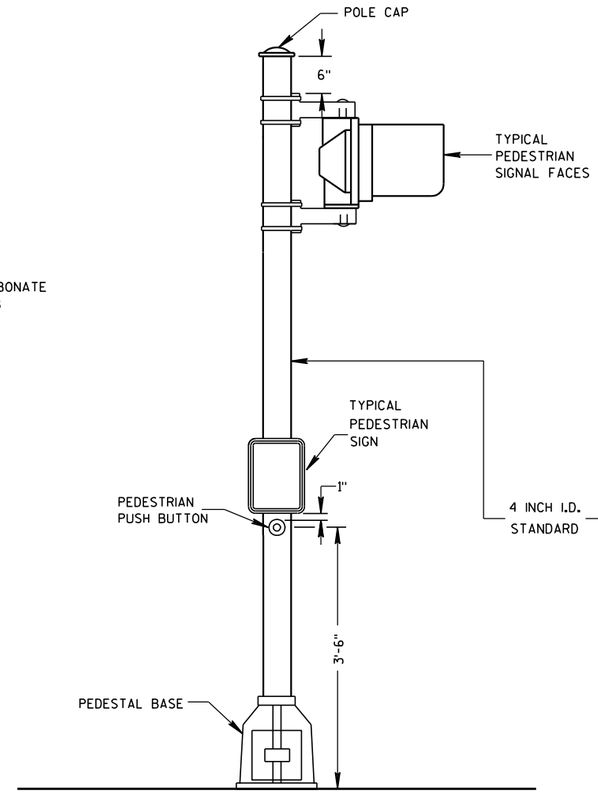
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(BANDED)

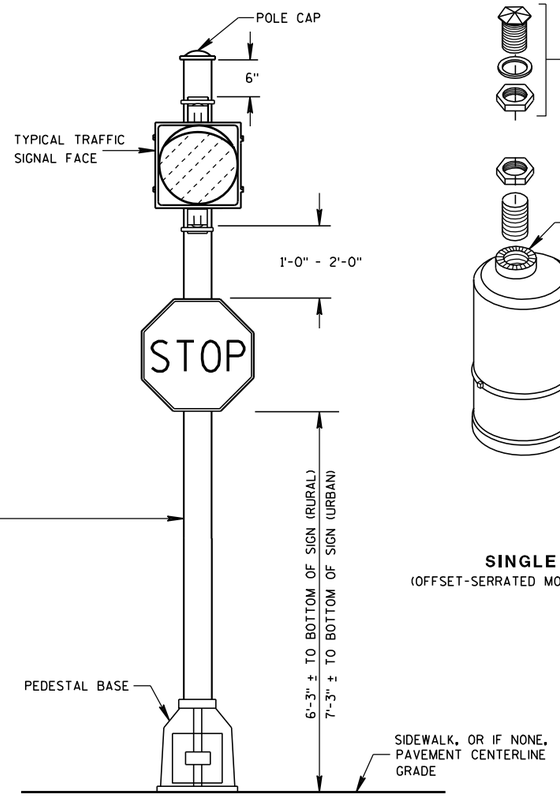
SIGNAL FACE MOUNTING DETAILS



PEDESTRIAN PUSH BUTTON TYPICAL MOUNTING



PEDESTRIAN FACE STANDARD-10 FT.
(WALK-DON'T WALK)



STANDARD FLASHER.
10 FOOT, 13 FOOT OR 15 FOOT AS REQUIRED

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIFICATIONS.

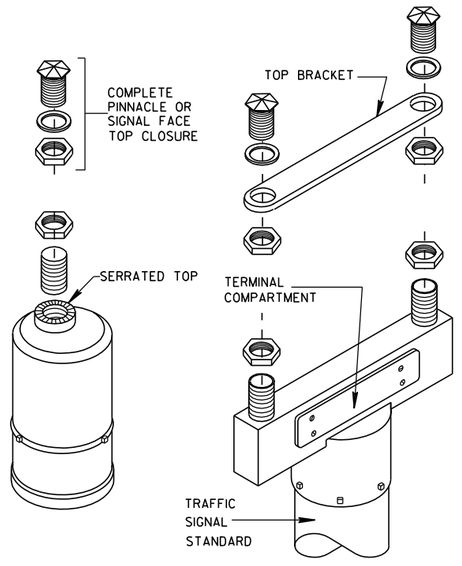
POLYCARBONATE SIGNAL FACE MOUNTING BRACKETS SHALL BE USED UNLESS ORNAMENTAL POLE CLAMPS ARE SPECIFIED.

LENGTH OF TRAFFIC STANDARDS SHALL BE AS SHOWN ON THE PLANS.

MOUNTINGS AND BRACKETS SHALL BE AS SHOWN ON THE PLANS OR DESCRIBED IN THE SPECIAL PROVISIONS (BY THE DISTRICT TRAFFIC ENGINEER).

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) 1/4" X 3/4" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



SINGLE
(OFFSET-SERRATED MOUNTING)

DOUBLE
(SERRATED MOUNTING)

SLIPFITTERS

TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/11/10 — DATE
/S/ John Corbin — STATE ELECTRICAL ENGINEER FOR HIGHWAYS
FHWA

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S.D.D. 9 E 7-5

6

S.D.D. 9 E 7-5

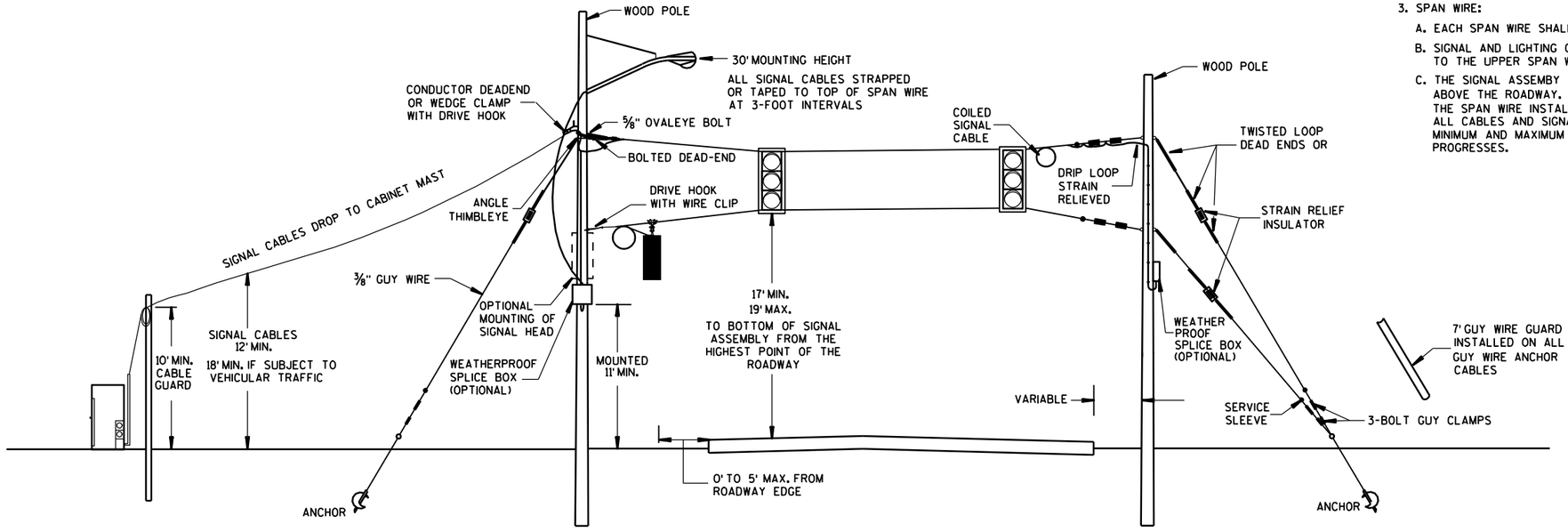
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

1. WOOD POLES SHALL BE CLASS 4. LENGTH DETERMINED BY SIGNAL PLAN.

2. SIGNAL FACES:
   A. ALL SECTIONS SHALL BE 12" AND POLYCARBONATE.
   B. EACH SHALL CONTAIN A 5" WIDE DULL BLACK POLYCARBONATE BACKPLATE.
   C. EACH SHALL BE WIRED FROM THE TOP SIGNAL MOUNTING BRACKET.
   D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.

3. SPAN WIRE:
   A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED.
   B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
   C. THE SIGNAL ASSEMBY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK PROGRESSES.



SPAN WIRE
TEMPORARY SIGNALS

MINIMUM POLE LENGTHS	POLE BURIEL DEPTHS
25'	5'
30'	6'
35'	7'
40'	8'
45'	9'

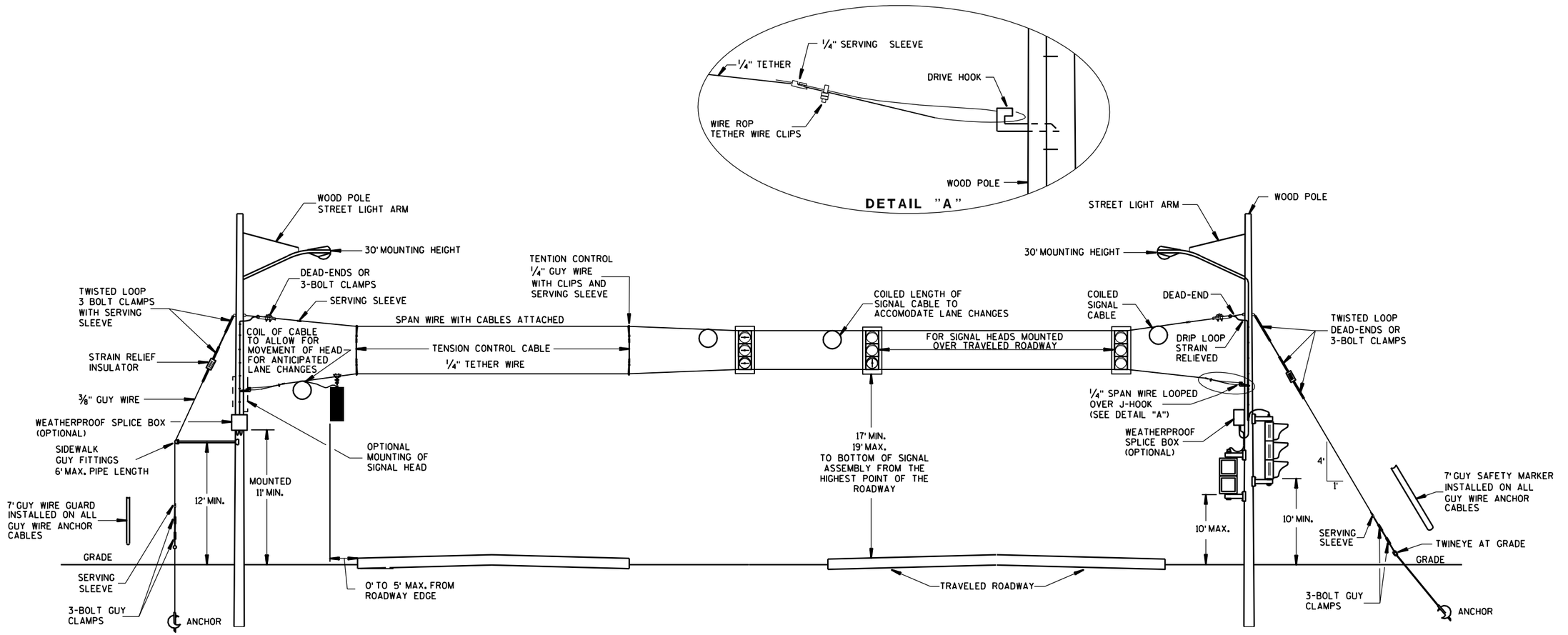
SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7-14-08 — DATE
/S/ Balu Ananthanarayanan — CHIEF ELECTRICAL ENGINEER FOR HIGHWAYS
FHWA

6

S.D.D. 9 G 1-30



GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

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   D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.
   E. FAR INDICATION SHALL BE MAINTAINED OVER CENTER OF TRAFFIC LANE.
3. SPAN WIRE:
   A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED.
   B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
   C. THE SIGNAL ASSEMBY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK PROGRESSES.

SPAN WIRE
TEMPORARY SIGNALS
4 LANE ROADWAYS

MINIMUM POLE LENGTHS	CLASS	MIN. BURIAL DEPTHS
25'	V	5'
30'	V	6'
35'	IV	7'
40'	IV	8'
45'	IV	9'

SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7-14-08 — DATE

/S/ Balu Ananthanarayanan — CHIEF ELECTRICAL ENGINEER FOR HIGHWAYS

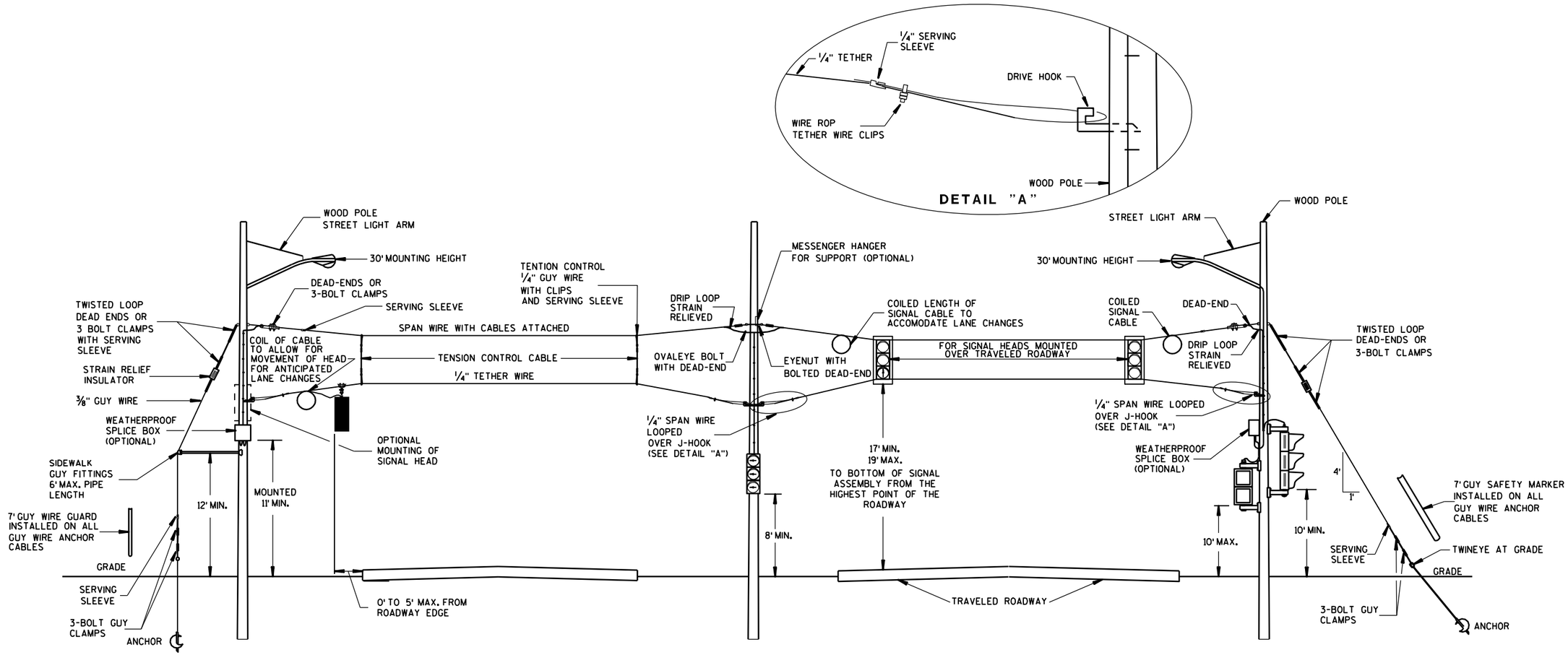
FHWA

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S.D.D. 9 G 1-3b

6

S.D.D. 9 G 1-3b



SPAN WIRE
TEMPORARY SIGNALS
4 LANE ROADWAYS

GENERAL NOTES

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   C. THE SIGNAL ASSEMBY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK PROGRESSES.

MINIMUM POLE LENGTHS	CLASS	MIN. BURIAL DEPTHS
25'	V	5'
30'	V	6'
35'	IV	7'
40'	IV	8'
45'	IV	9'

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7-14-08 — DATE

/S/ Balu Ananthanarayanan — CHIEF ELECTRICAL ENGINEER FOR HIGHWAYS

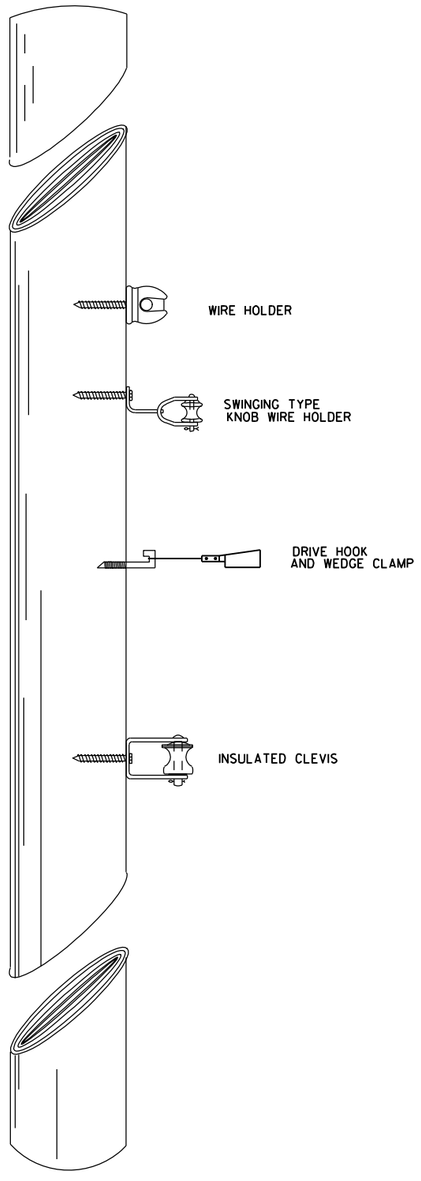
FHWA

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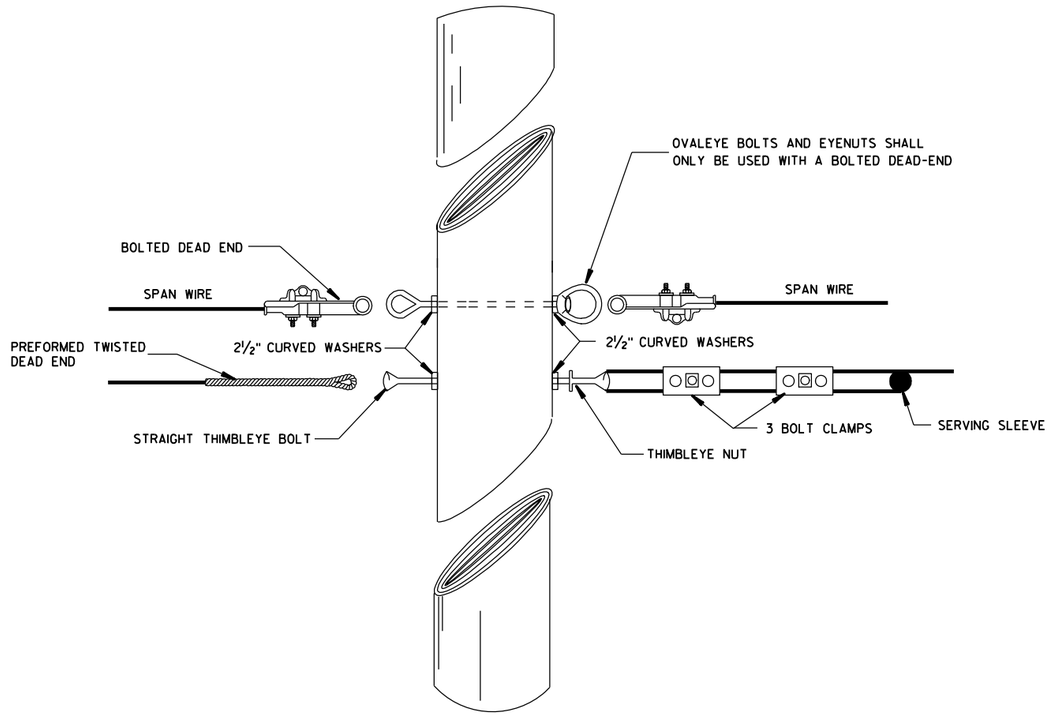
S.D.D. 9 G 1-3c

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S.D.D. 9 G 1-3c



TYPICAL CABLE HANGERS



TYPICAL DEAD-ENDING

SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7-14-08
DATE

/S/ Balu Ananthanarayanan
CHIEF ELECTRICAL ENGINEER FOR HIGHWAYS

FHWA

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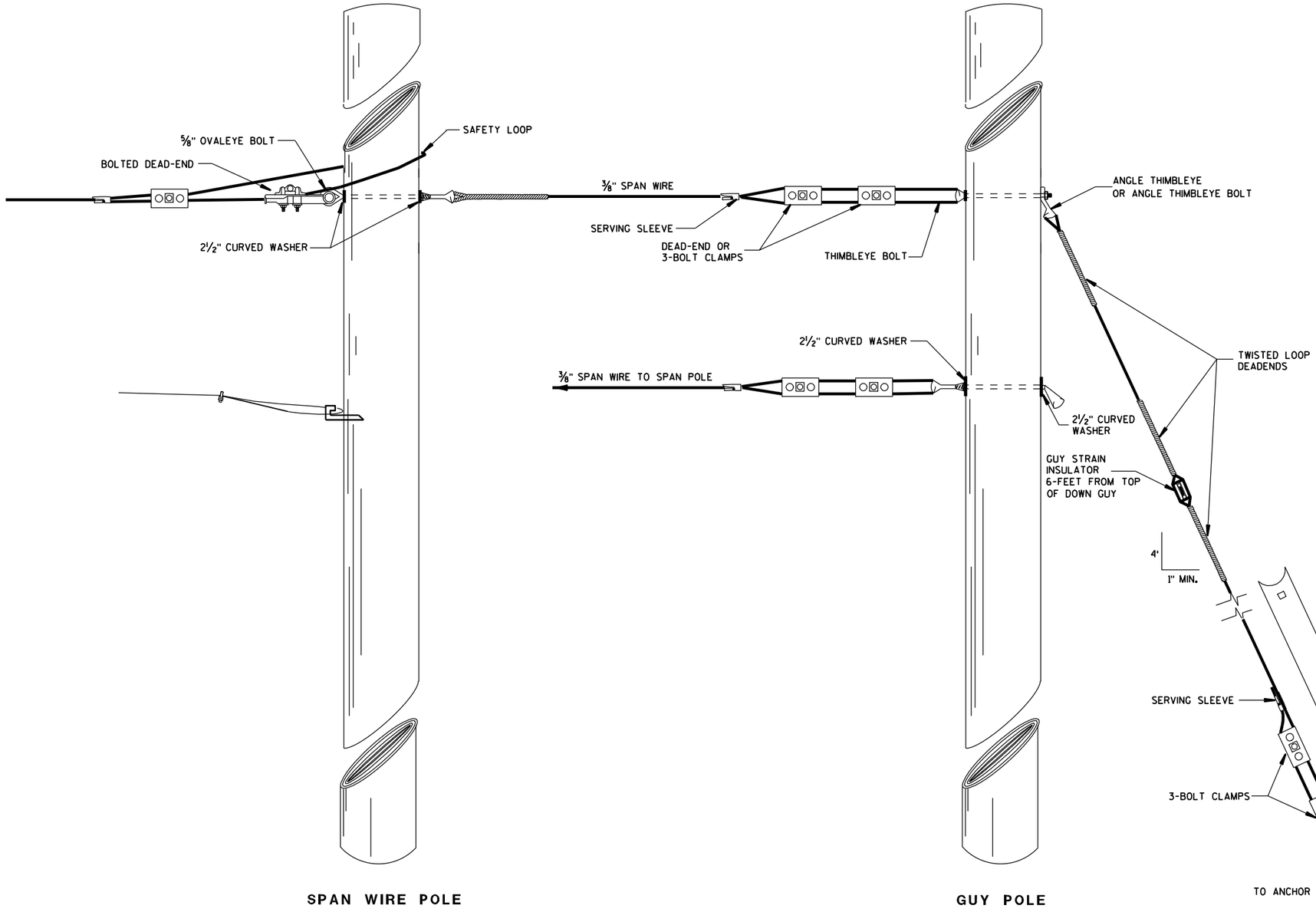
S.D.D. 9 G 1-3d

6

S.D.D. 9 G 1-3d

GENERAL NOTES

1. USE ¾" DRILL IN WOOD POLE TO PROVIDE HOLE FOR ⅝" BOLTS.
2. SAFTY LOOP REQUIRED ON EACH END OF ALL SPAN WIRES.



SPAN WIRE POLE

GUY POLE

TYPICAL DEAD-ENDINGS OR GUYING

SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7-14-08
DATE

/S/ Balu Ananthanarayanan
CHIEF ELECTRICAL ENGINEER FOR HIGHWAYS

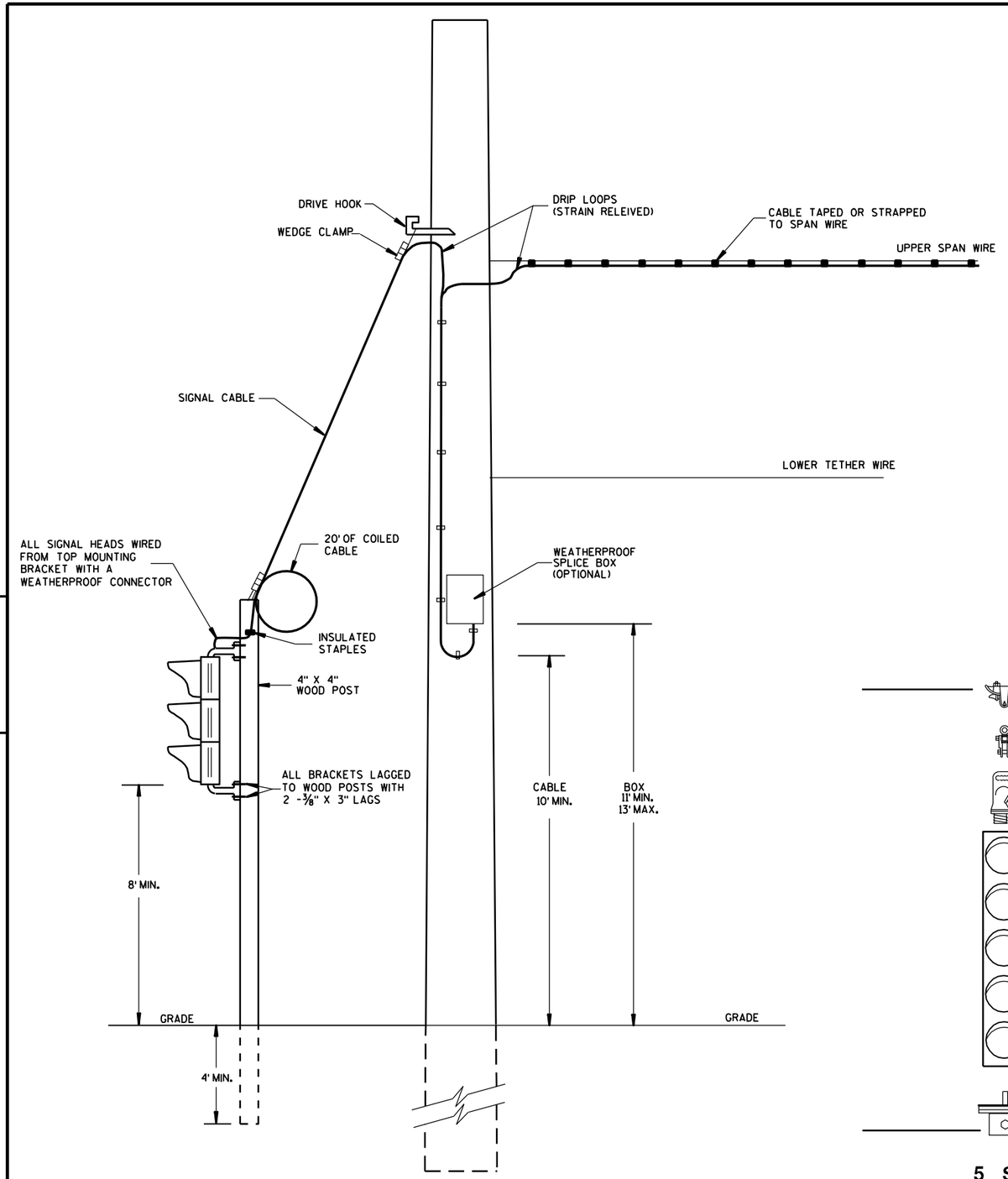
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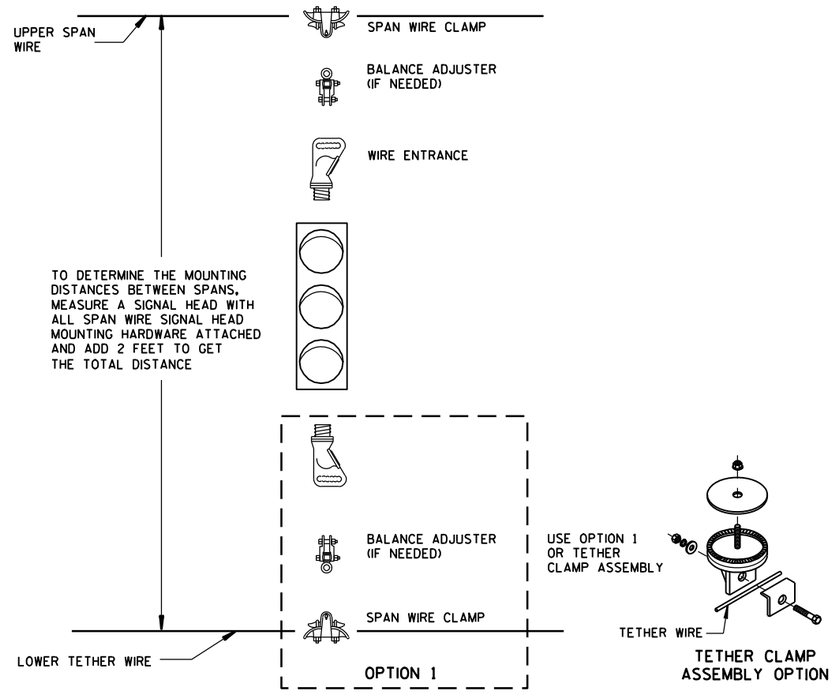
S.D.D. 9 G 1-3e

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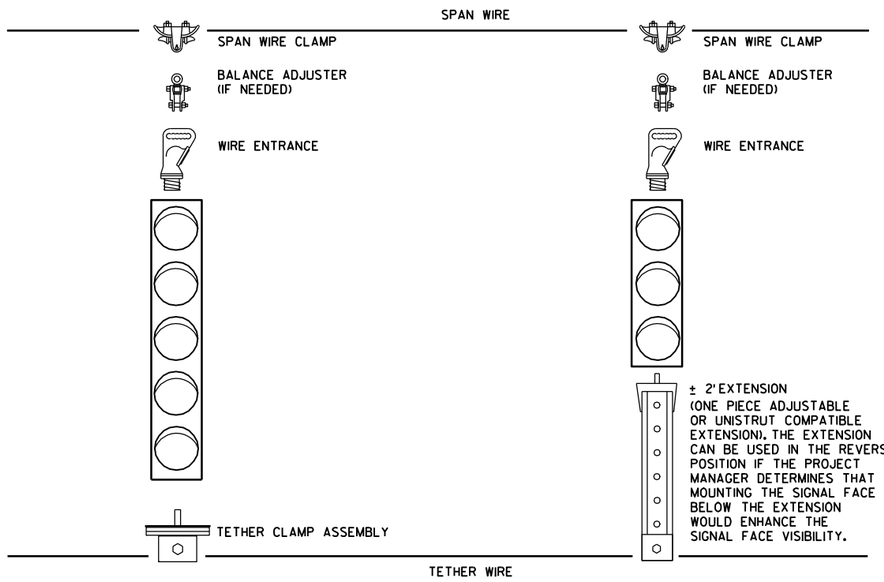
S.D.D. 9 G 1-3e



TYPICAL DROP TO TEMPORARY MOVEABLE SIGNAL



TYPICAL SPAN WIRE MOUNTING HARDWARE



5 SECTION VERTICAL WITH 3 SECTION VERTICAL ON ONE SPAN WIRE

SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

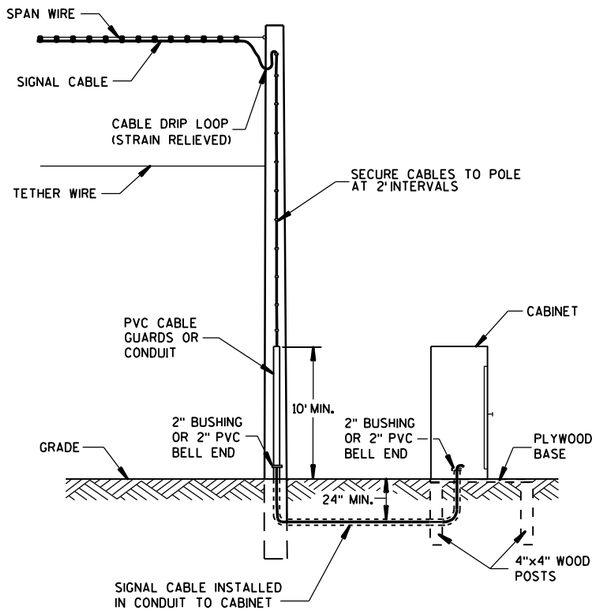
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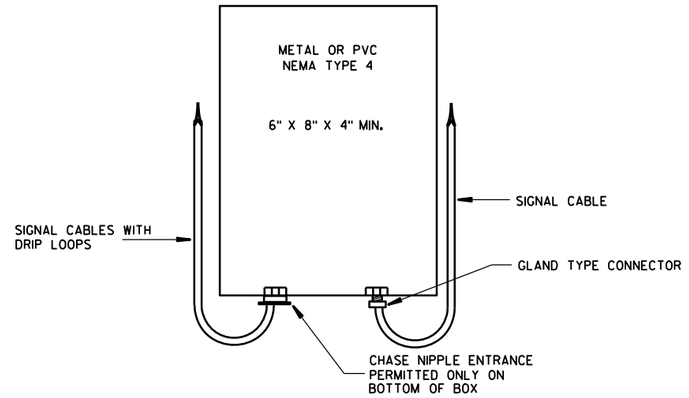
7-14-08	/S/ Balu Ananthanarayanan
DATE	CHIEF ELECTRICAL ENGINEER FOR HIGHWAYS

FHWA

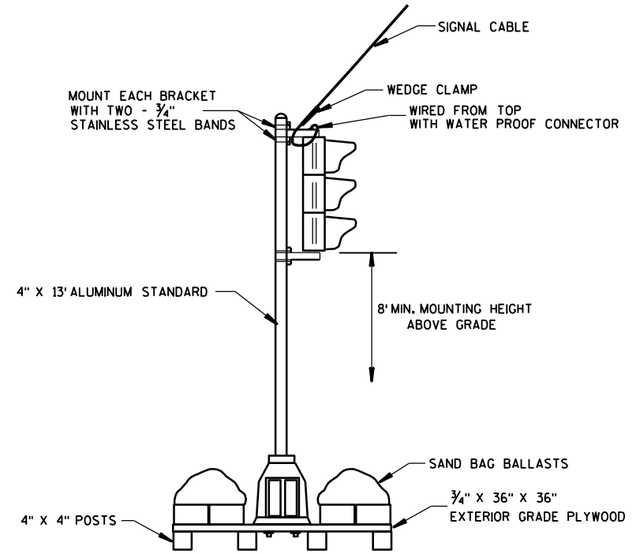
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S.D.D. 9 G 1-3f

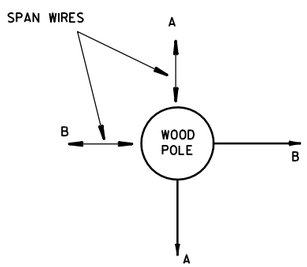




SPLICE BOX

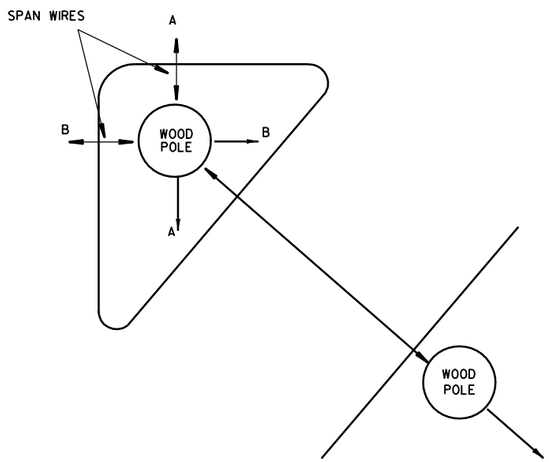


TYPICAL SKID TYPE TEMPORARY

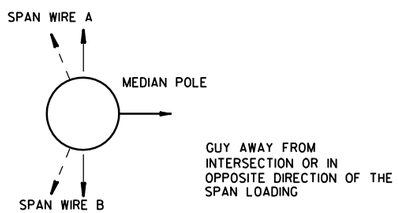


ALL DOWN OR SIDEWALK GUYS
SHALL BE INSTALLED IN THE
OPPOSITE DIRECTION OF THE
STRAIN OF THE SPAN WIRE

CORNER POLES



ISLAND POLES



MEDIAN POLES

SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7-14-08
DATE

/S/ Balu Ananthanarayanan
CHIEF ELECTRICAL ENGINEER FOR HIGHWAYS

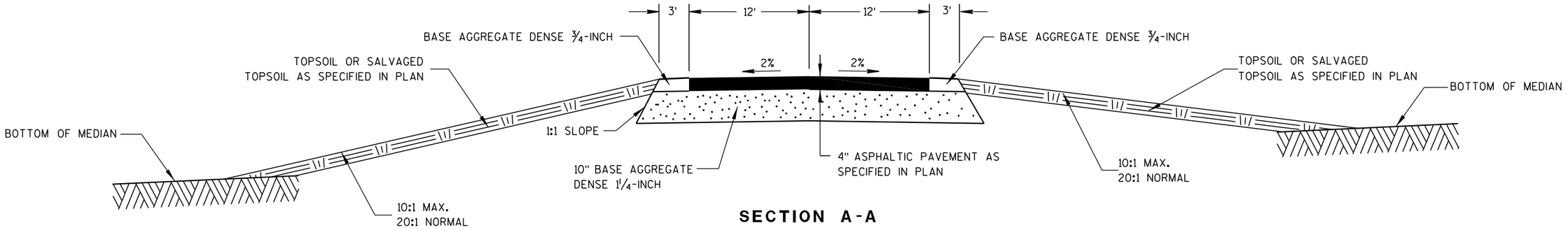
FHWA

6

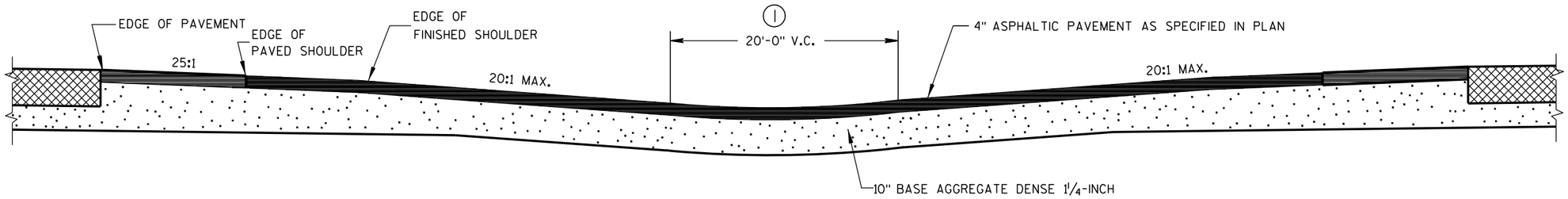
S.D.D. 9 G 1-3g

6

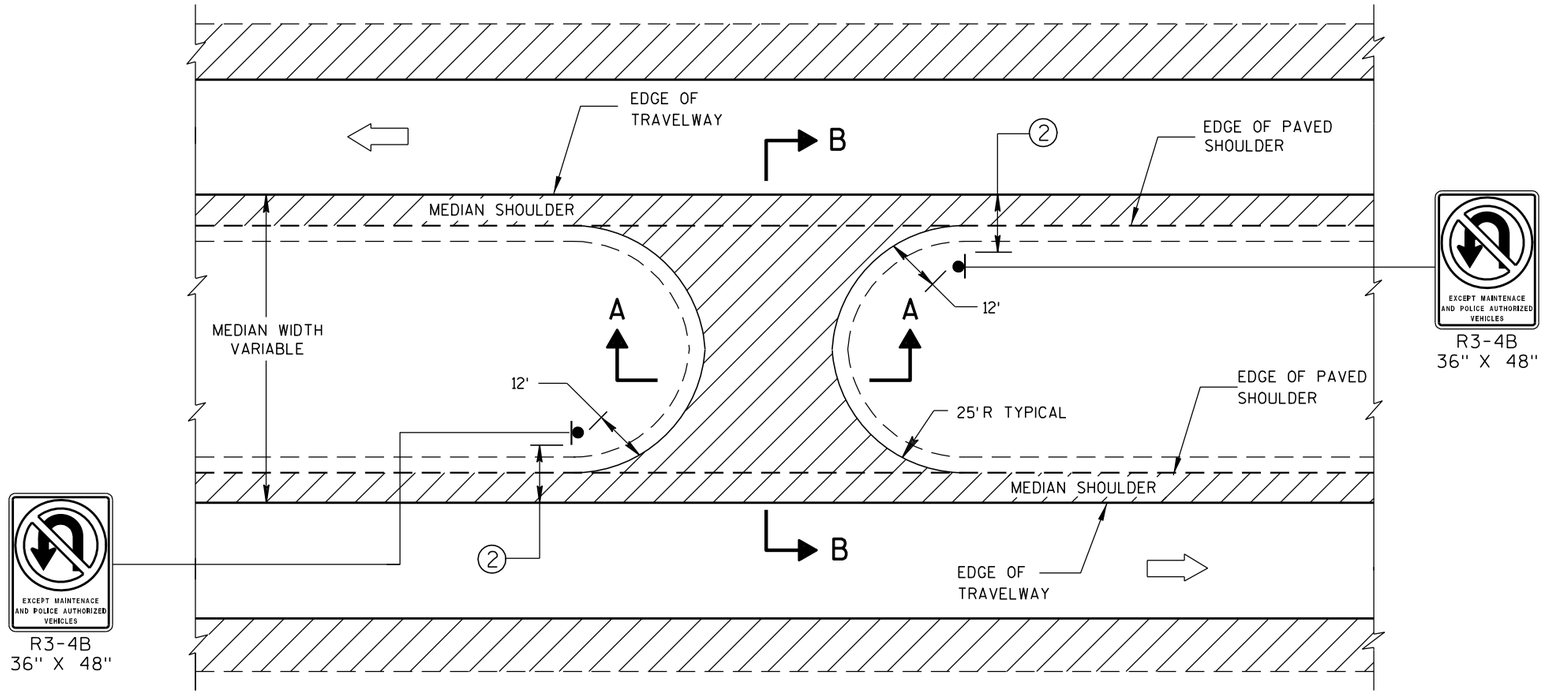
S.D.D. 9 G 1-3g



SECTION A-A



SECTION B-B



PLAN VIEW

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

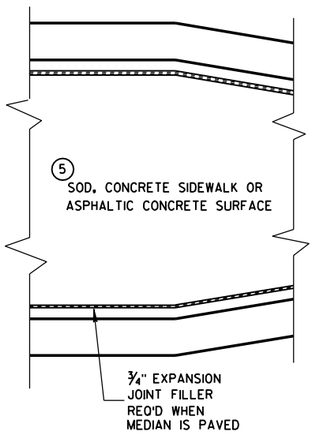
(1) ADJUST VERTICAL CURVE LOCATION LATERALLY TO MAINTAIN 20:1 MAX.

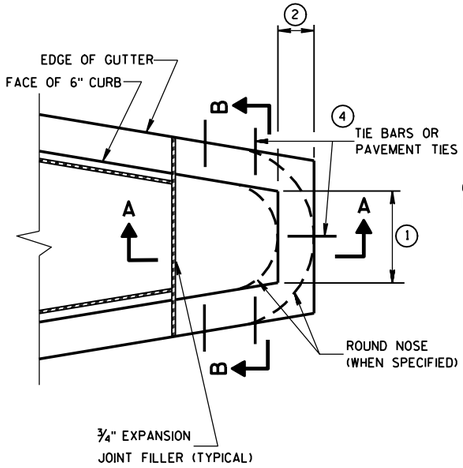
(2) SIGNING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.

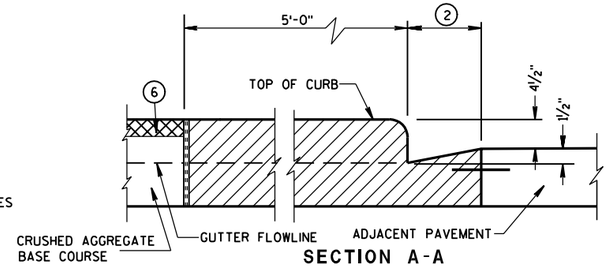
MAINTENANCE CROSSOVER FOR FREEWAYS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

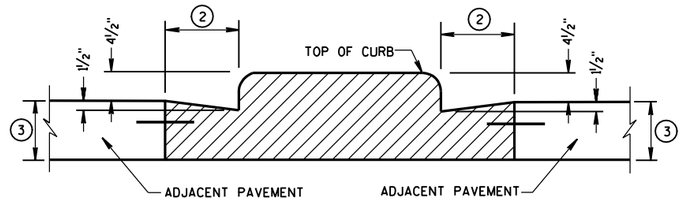
APPROVED
11/01/2011
DATE
/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER
FHWA







SECTION A-A



SECTION B-B

CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

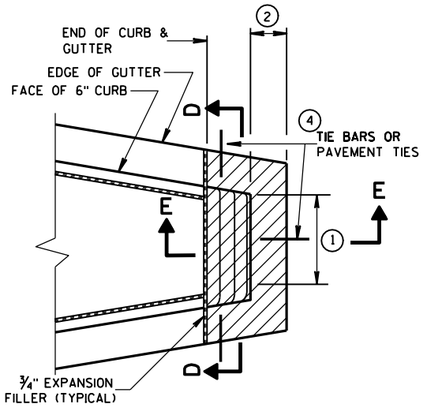
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

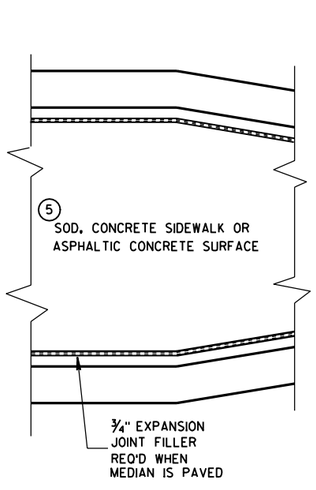
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

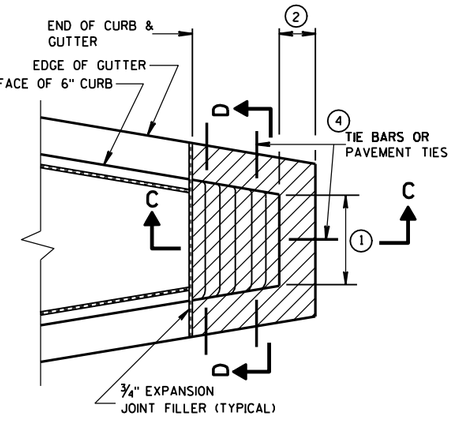
(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

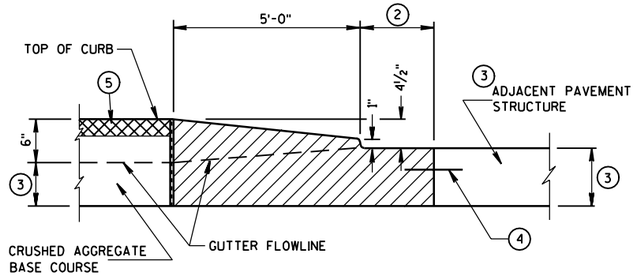
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.



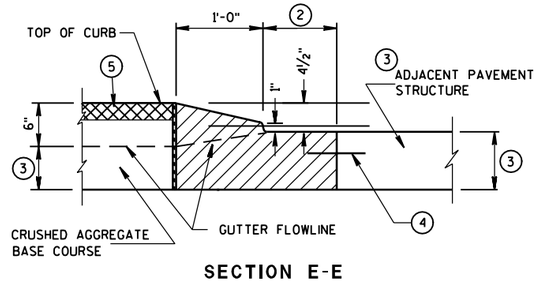




CONCRETE MEDIAN SLOPED NOSE TYPE 1

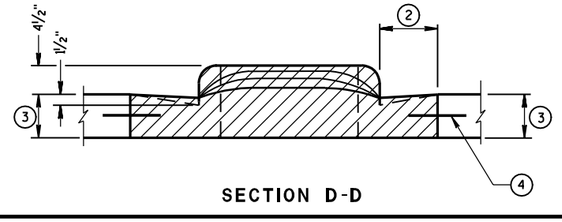


SECTION C-C



SECTION E-E

CONCRETE MEDIAN SLOPED NOSE TYPE 2



SECTION D-D

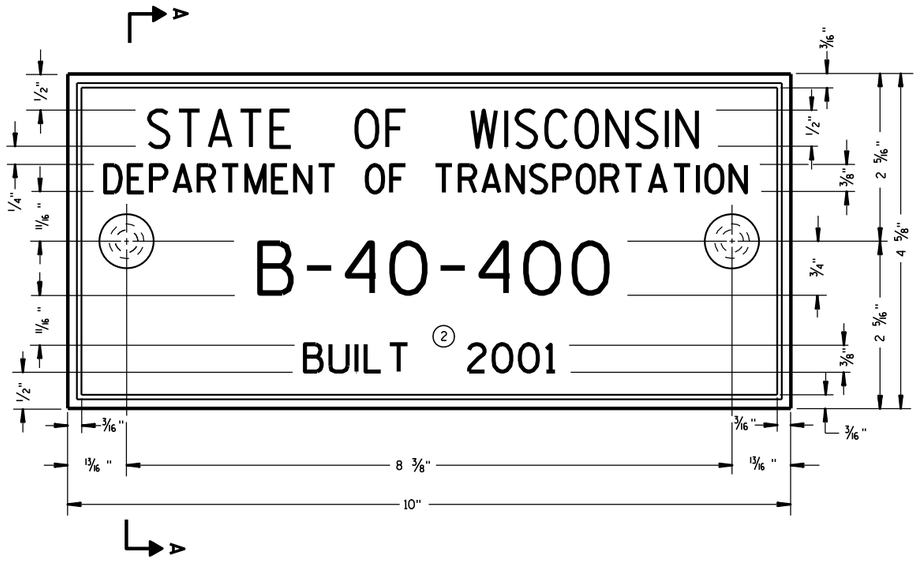
CONCRETE MEDIAN NOSE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 6/8/06 DATE FHWA	/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

S.D.D. 11B 2-2

6

S.D.D. 11B 2-2



TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)

FOR MULTI-UNIT STRUCTURES
LINE 3 ABOVE SHALL READ

B = BRIDGE
C = CULVERT
R = RETAINING WALL

COUNTY NO.

BRIDGE NO.

UNIT NO. FOR MULTIPLE UNIT BRIDGE

B-40-400-1A

NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

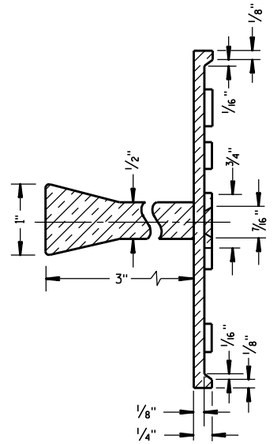
GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

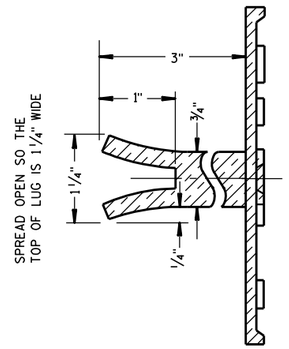
THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

(1) EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

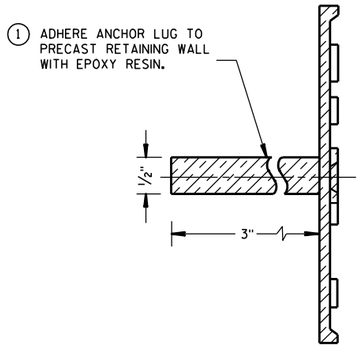
(2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SECTION A-A



ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE
(STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/26/10
DATE

/S/ Scot Becker
CHIEF STRUCTURAL DEVELOPMENT ENGINEER

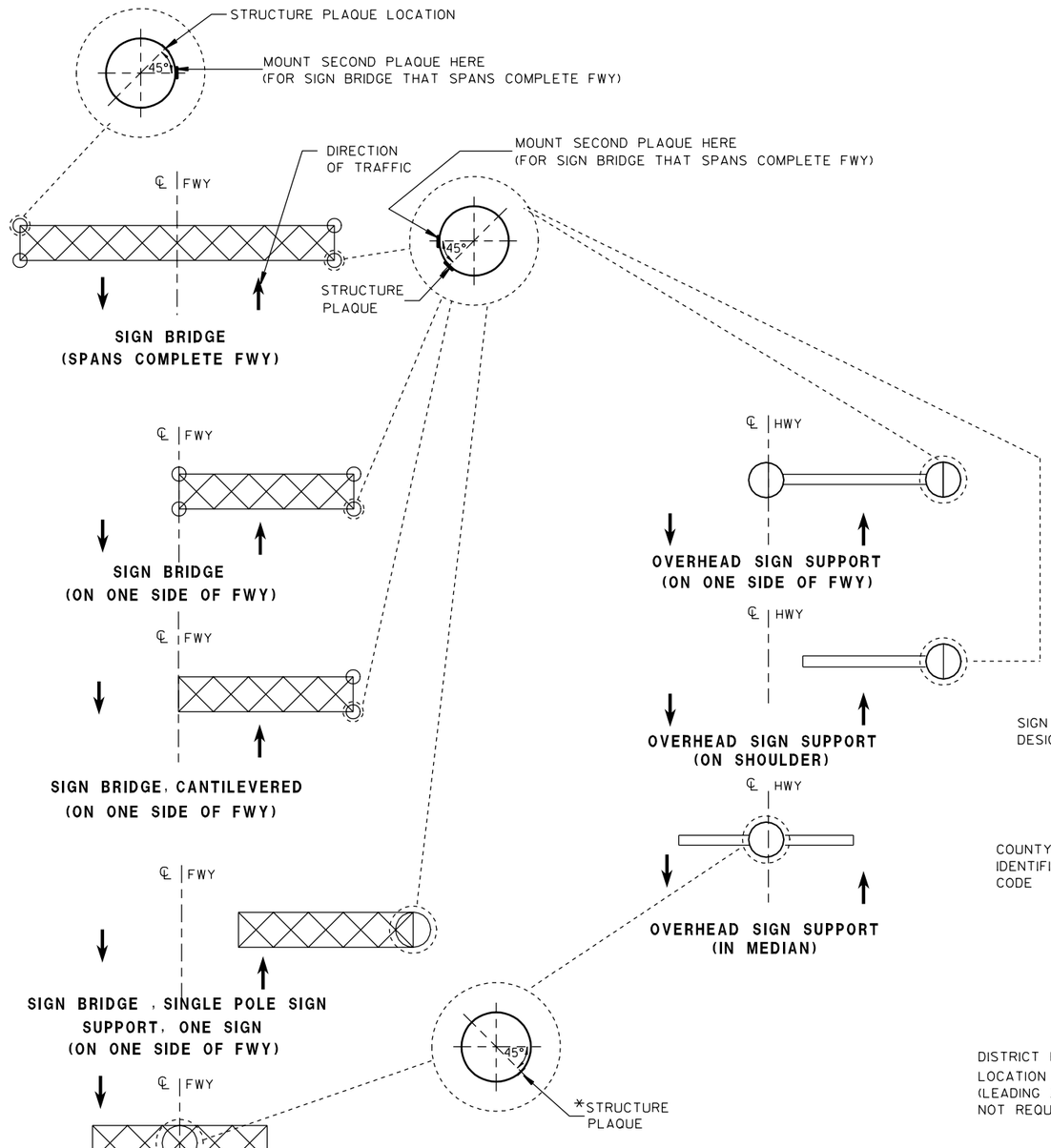
FHWA

6

S.D.D. 12 A 3-10

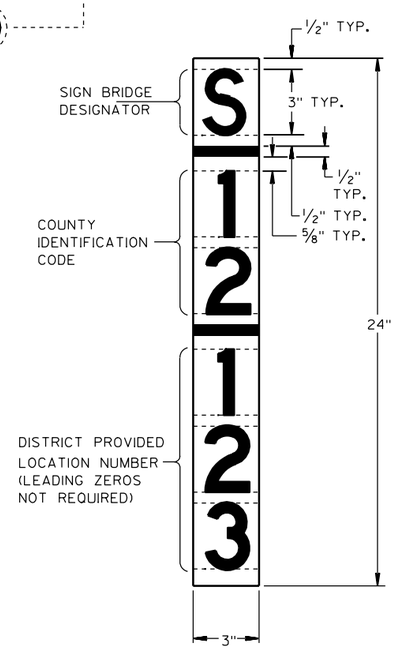
6

S.D.D. 12 A 3-10



LOCATION OF SIGN BRIDGE & OVERHEAD
SIGN SUPPORT STRUCTURE PLAQUES

*WHEN SIGNS FACE TRAFFIC IN ONE DIRECTION, THE PLAQUE SHALL FACE TRAFFIC IN THE SAME DIRECTION. WHEN SIGNS ARE FACING TRAFFIC IN BOTH DIRECTIONS, THE PLAQUE SHALL FACE TRAFFIC IN THE CARDINAL DIRECTION.



SIGN BRIDGE AND OVERHEAD SIGN SUPPORT
STRUCTURE PLAQUE FOR SIGN BRIDGES AND OVERHEAD SIGN
SUPPORT WHICH ARE NOT STRUCTURE MOUNTED

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN IN THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PLAQUES SHALL BE INCIDENTAL TO ALL NEW INSTALLATIONS.

IF THE PROPOSED SIGN BRIDGE OR OVERHEAD SIGN SUPPORT IS REPLACING AN EXISTING SIGN BRIDGE OR OVERHEAD SIGN SUPPORT, A NEW IDENTIFICATION PLAQUE WILL BE REQUIRED.

FASTEN TOP, CENTER AND BOTTOM OF PLAQUE TO POLE OR OTHER LOCATION AS FOLLOWS:

GALVANIZED STEEL SHAFT - 3 STAINLESS STEEL POP RIVETS

A588 STEEL SHAFT - SHIM FOR DRAINAGE WITH STAINLESS WASHERS; FASTEN WITH STAINLESS SELF-TAPPING SCREWS

ALUMINUM SHAFTS - 3 ALUMINUM POP RIVETS

MOUNTING HEIGHT SHALL BE APPROXIMATELY 5.0' ABOVE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL OBSTRUCT.

PLAQUE MATERIALS:

BASE - SHEET ALUMINUM, 0.060" THICK.

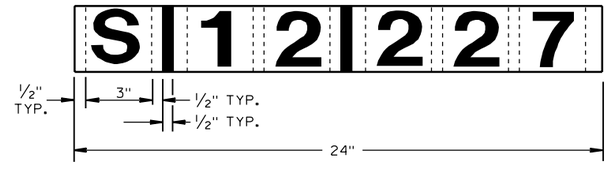
FACE - WHITE, SELF-ADHESIVE VINYL SHEETING, NON-RETROREFLECTIVE

LINES - BLACK, ½" WIDE, SELF-ADHESIVE

CHARACTERS:- BLACK, SELF ADHESIVE, SERIES "D", SIZE AS SHOWN.

FOR SIGN BRIDGES, STRUCTURE MOUNTED, THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY AS SHOWN ON THE DRAWING. THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY TO THE BACK OF THE SIGN, BETWEEN THE ALUMINUM EXTRUSIONS, NEAR THE TOP LEFT HAND CORNER OF THE SIGN. THE BASE MATERIAL SHALL BE OMITTED AND THE FACE ADHERED DIRECTLY TO THE ALUMINUM SURFACE. PRIOR TO ADHERING THE MATERIAL, THE ALUMINUM SURFACE SHALL BE SMOOTH, CLEAN AND DRY.

WHERE SIGN BRIDGE ILLUMINATION IS PROVIDED, THE STRUCTURE MUST ALSO HAVE A SIGN BRIDGE CIRCUIT PLAQUE AS SHOWN IN THE ELECTRICAL DETAILS.



IDENTIFICATION PLAQUE FOR SIGN BRIDGE,
STRUCTURE MOUNTED

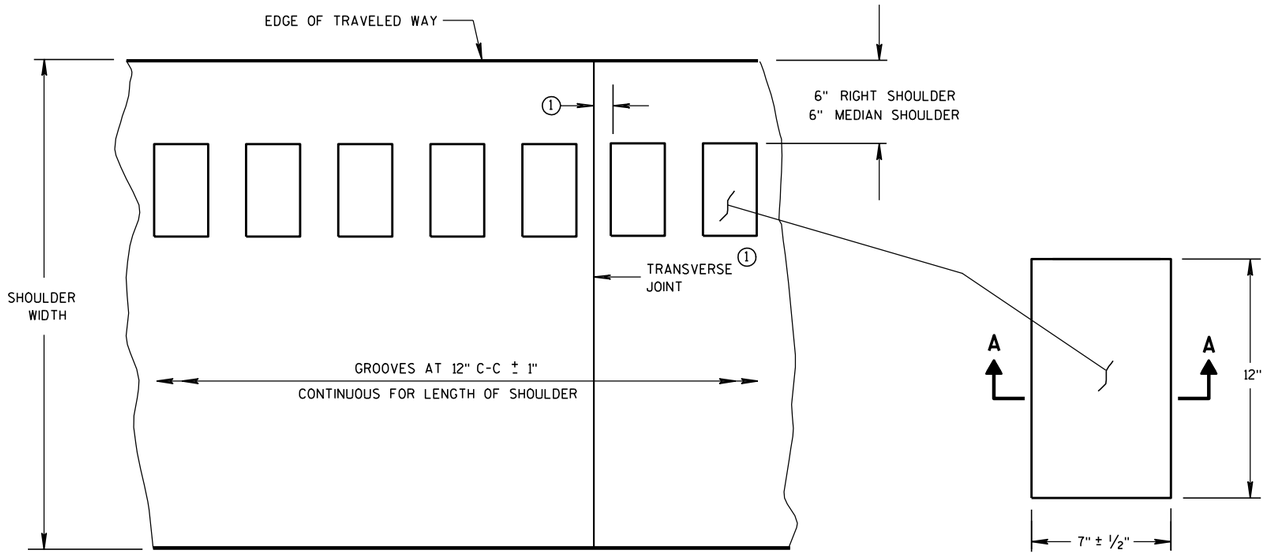
STRUCTURE IDENTIFICATION PLAQUES,
SIGN BRIDGES & OVERHEAD
SIGN SUPPORT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/22/99
DATE

Chester J. Sparg
CHIEF SIGNS AND MARKING ENGINEER

FHWA



PLAN VIEW
SHOULDER WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR MILLED RUMBLE STRIP

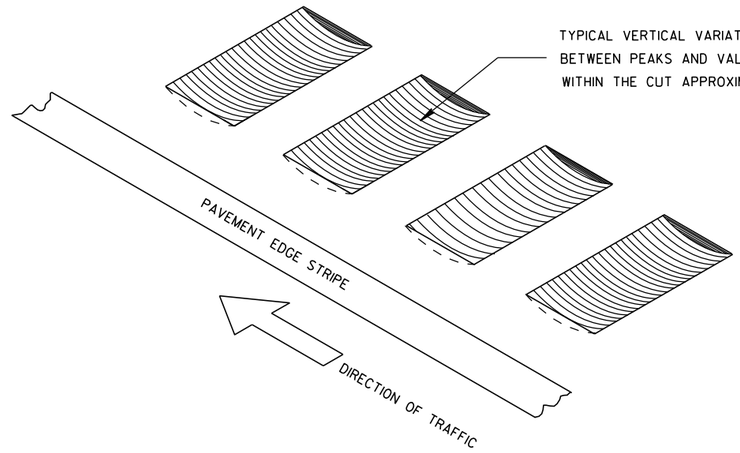
GENERAL NOTES

DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

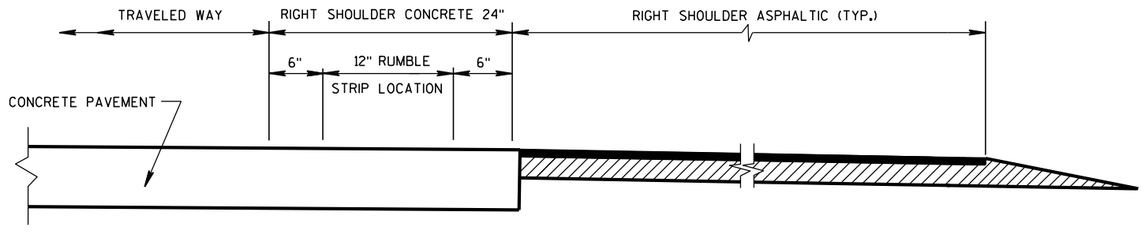
RUMBLE STRIPS ON EXPRESSWAYS

DO NOT INSTALL RUMBLE STRIPS ACROSS SIDE ROAD INTERSECTIONS, COMMERCIAL DRIVEWAYS OR ADJACENT TO RIGHT TURN LANES, LEFT TURN LANES OR TURN LANE TAPERS. THE ATTACHED STANDARD DETAIL DRAWING SHOWS THE LOCATION OF THE RUMBLE STRIPS AT INTERCHANGE AREAS.

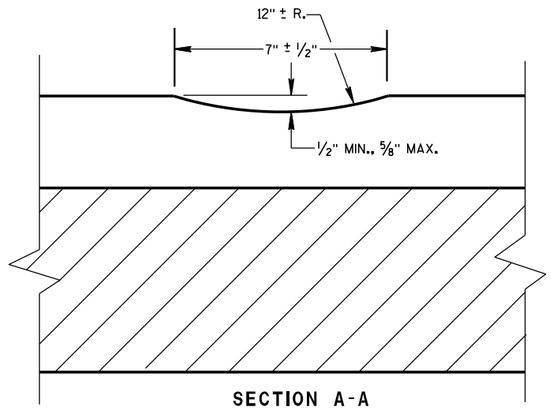
(1) CONCRETE PAVEMENT - RUMBLE STRIPS SHALL BE A MINIMUM OF 6" AWAY FROM TRANSVERSE JOINTS.



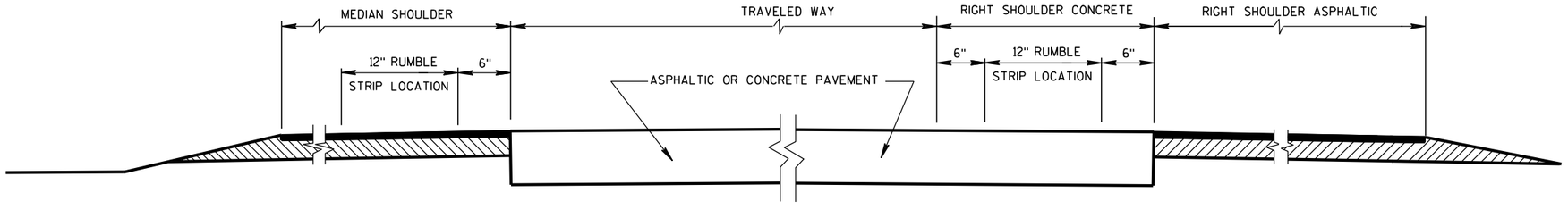
ISOMETRIC



SECTION VIEW
CONCRETE PAVEMENT EXTENDS INTO RIGHT SHOULDER)



SECTION A-A



SECTION VIEW

TYPICAL LOCATIONS OF SHOULDER RUMBLE STRIPS IN RURAL DIVIDED HIGHWAYS

(ONE ROADWAY IS SHOWN)

SHOULDER RUMBLE STRIP, MILLING

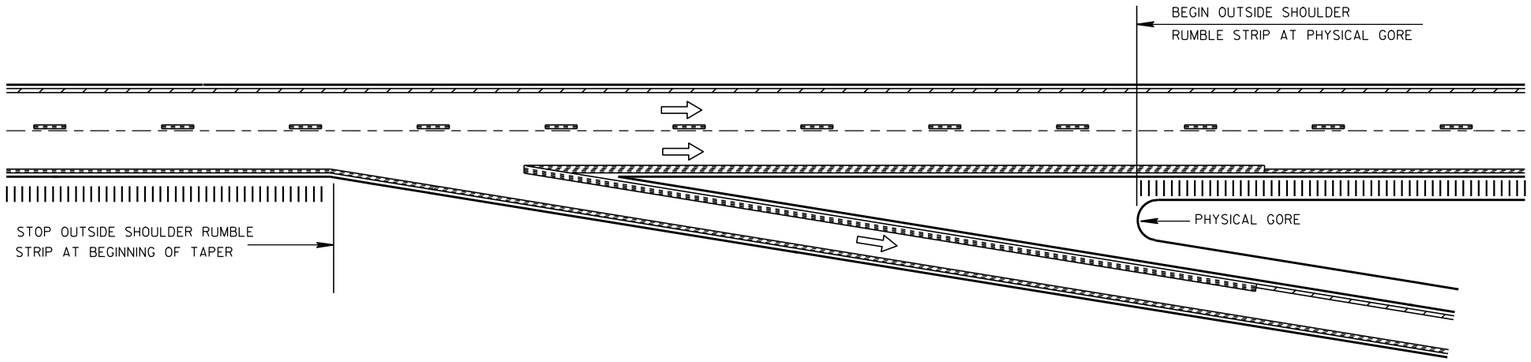
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO...

6

S.D.D. 13 A 5-4a

6

S.D.D. 13 A 5-4a



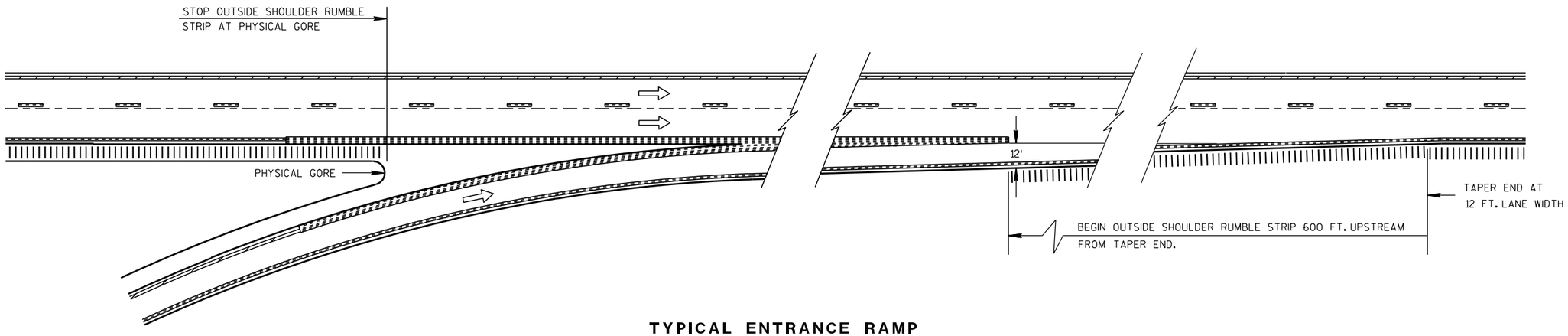
TYPICAL EXIT RAMP

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL

NOTES:

NO RUMBLE STRIP ON EXIT, DIRECTIONAL, OR ENTRANCE RAMPS, EXCEPT NEAR THE ENTRANCE TAPER END AS SHOWN.

PAVEMENT MARKING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.



TYPICAL ENTRANCE RAMP

RAMP AND GORE RUMBLE STRIP LOCATIONS

6

6

S.D.D. 13 A 5-4b

S.D.D. 13 A 5-4b

SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

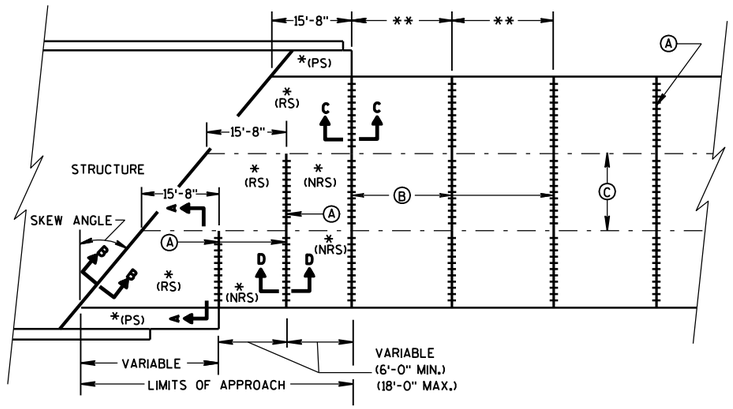
APPROVED

8/17/2011
DATE

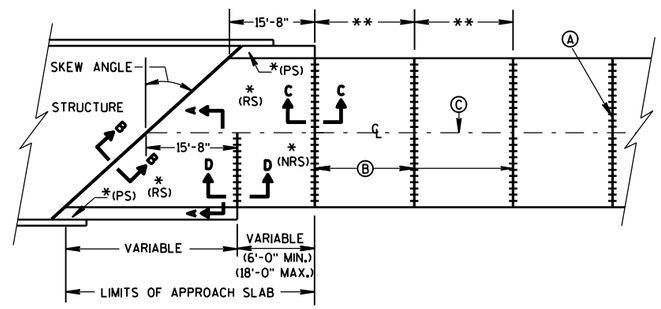
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

442

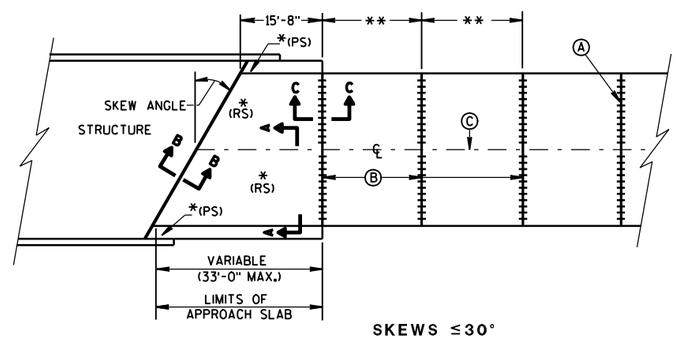
FHWA



SKEWED APPROACH
(PAVEMENT MORE THAN 2 LANES)



SKEWS >30°
(PAVEMENT WIDTH ≤30')



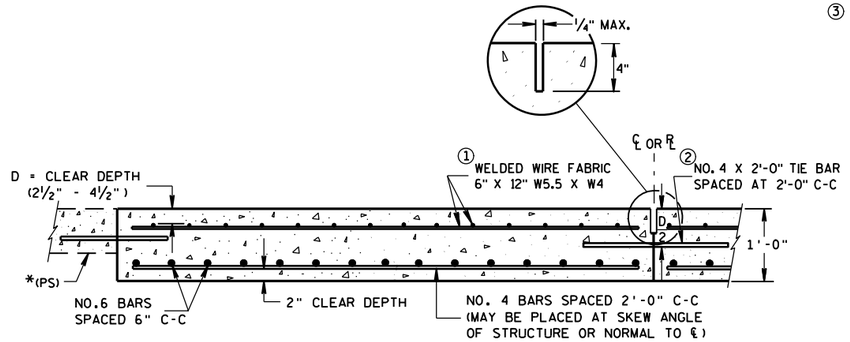
SKEWS ≤30°
(PAVEMENT WIDTH ≤30')

APPROACH SLAB AND ADJACENT PAVEMENT

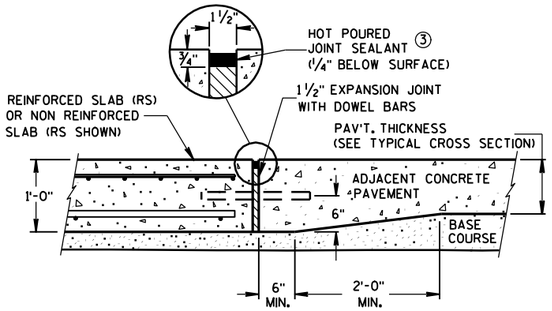
*(RS) = REINFORCED CONCRETE SLAB
*(PS) = PAVED CONCRETE SHOULDER: CONCRETE PAVEMENT, OR CONCRETE SURFACE DRAIN (SEE DETAILS ELSEWHERE IN THE PLAN)
*(NRS) = NON-REINFORCED CONCRETE SLAB

**STANDARD TRANSVERSE JOINT SPACING (SEE SDD 13C4, SDD 13C11, & SDD 13C13)

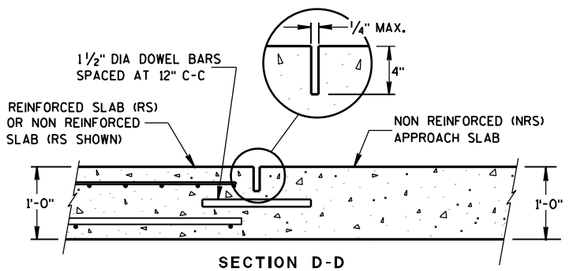
Ⓐ STANDARD CONTRACTION JOINT NORMAL TO ℄ OR ℄
Ⓑ 1½" EXPANSION JOINT WITH DOWEL BARS NORMAL TO ℄ OR ℄
Ⓒ STANDARD LONGITUDINAL JOINT AND TIE BARS.



SECTION A-A
REINFORCEMENT POSITIONING DETAIL



SECTION C-C
TRANSITION DETAIL
APPROACH SLAB TO ADJACENT PAVEMENT



SECTION D-D
CONTRACTION JOINT

GENERAL NOTES

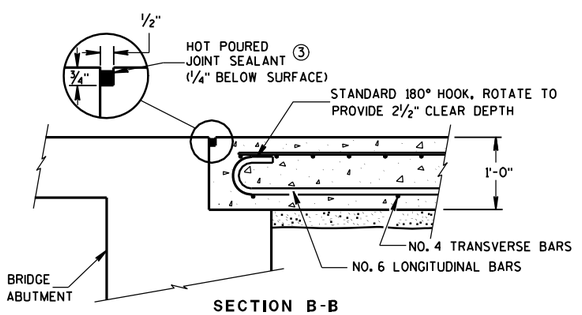
APPROACH SLABS ABUTTING AN HMA PAVEMENT OVER BASE COURSE DO NOT NEED TO BE DOWELED.

THE CONTRACTOR MAY SPLICE NO. 6 BARS IN THE APPROACH SLAB FOR SKEWED STRUCTURES ONLY. STAGGER SPLICES WITH A MAXIMUM OF ONE SPLICE PER BAR. THE LENGTH OF LAP IS 20 INCHES.

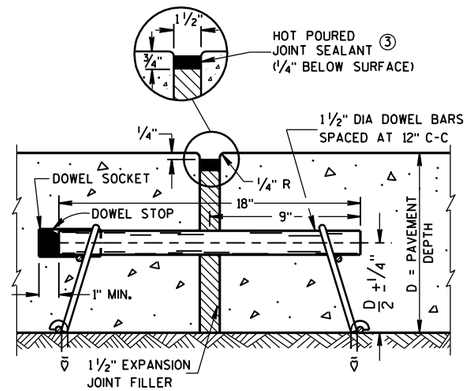
① THE CONTRACTOR MAY USE NO. 4 BARS SPACED AT 2'-0" C-C IN BOTH THE LONGITUDINAL AND TRANSVERSE DIRECTIONS FOR TOP REINFORCEMENT AS AN ALTERNATIVE TO THE WELDED WIRE FABRIC.

② THE CONTRACTOR MAY OMIT TIE BARS BETWEEN REINFORCED SLABS WHERE SLAB REINFORCEMENT BARS EXTEND ACROSS THE CENTERLINE OR REFERENCE LINE.

③ USE A JOINT SEALANT MEETING THE REQUIREMENTS OF ASTM D6690.



SECTION B-B
BEND DETAIL
BOTTOM REINFORCEMENT



EXPANSION JOINT

CONCRETE PAVEMENT APPROACH SLAB

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

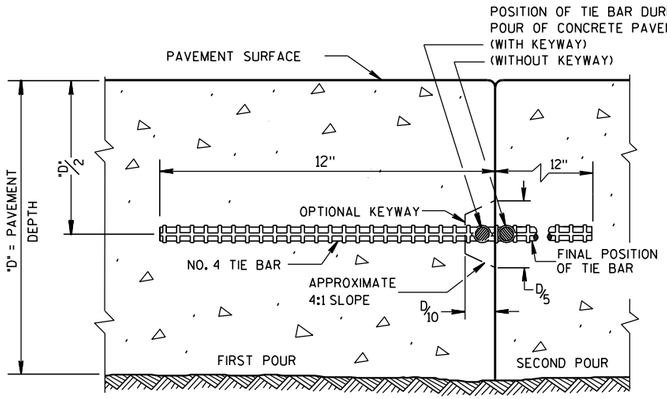
APPROVED
12/11/2009 — DATE
/S/ Deb Bischoff — PAVEMENT POLICY & DESIGN ENGINEER
FHWA

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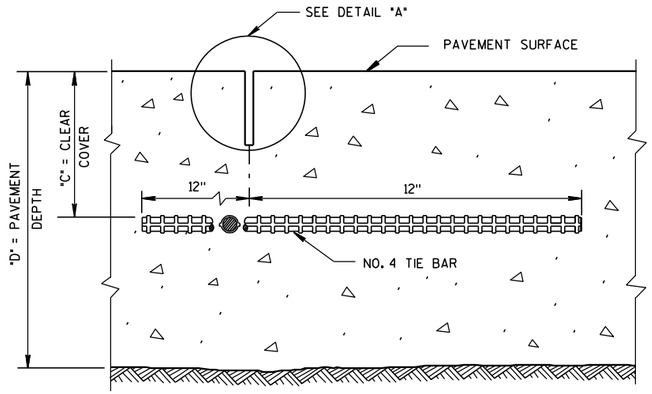
S.D.D. 13 B 2-6

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S.D.D. 13 B 2-6



CONSTRUCTION JOINT



SAWED JOINT

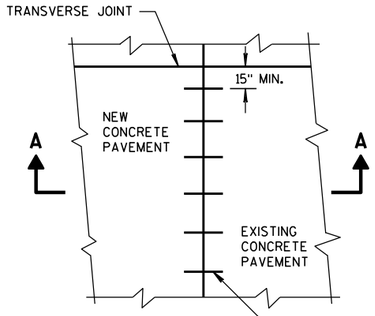
GENERAL NOTES

DO NOT SEAL OR FILL LONGITUDINAL JOINTS.

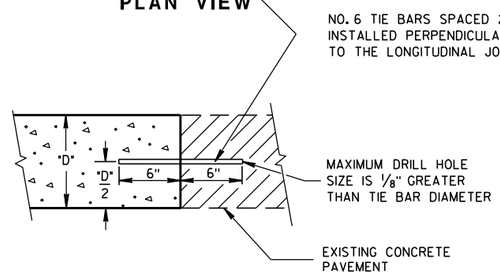
CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

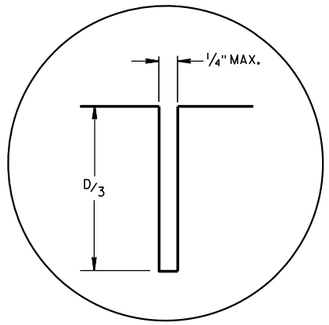


PLAN VIEW



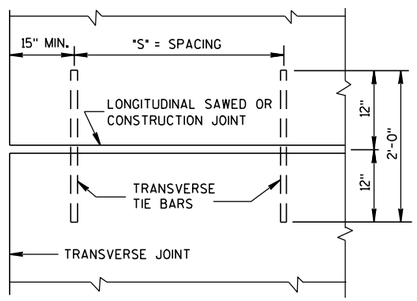
SECTION A-A

LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT



DETAIL "A"

PAVEMENT DEPTH "D"	CLEAR COVER "C"	MAXIMUM TIE BAR SPACING "S"	
		PAVEMENT WIDTH	
		24' OR 26'	≥ 30'
6, 6 ½"	3" ± ½"	48"	42"
7, 7 ½"	3 ¼" ± 1"	45"	36"
8, 8 ½"	3 ¾" ± 1"	39"	30"
9, 9 ½"	4 ¼" ± 1"	33"	27"
10, 10 ½"	4 ¾" ± 1"	30"	24"
11, 11 ½"	5 ¼" ± 1"	27"	21"
12"	5 ¾" ± 1"	24"	21"



PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10-5-2010 — DATE

/S/ Deb Bischoff — PAVEMENT POLICY & DESIGN ENGINEER

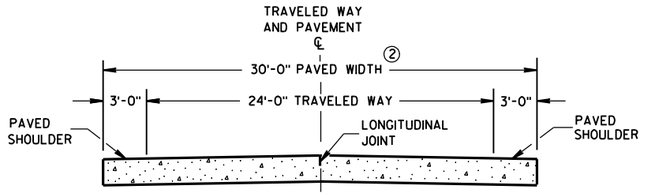
FHWA

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S.D.D. 13 C 1-15

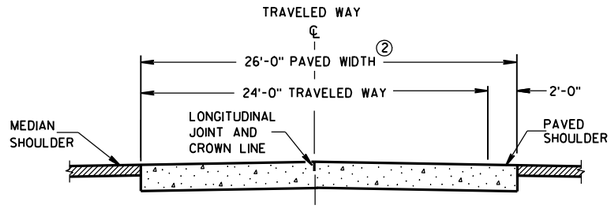
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S.D.D. 13 C 1-15

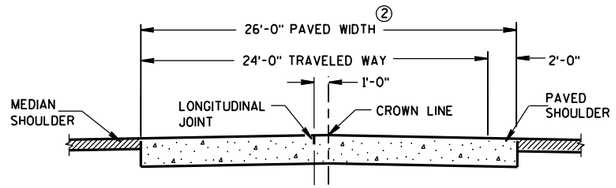


SECTION A-A ①

TWO-LANE TWO-WAY HIGHWAY



SECTION B-B



ALTERNATIVE SECTION B-B ①

DIVIDED HIGHWAY

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT SEAL OR FILL CONTRACTION JOINTS.

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

FOR PAVEMENT SLABS OF VARYING WIDTHS, CENTER THE DOWEL ASSEMBLY ACROSS THE LANES. LOCATE THE INNER AND OUTER MOST DOWEL BARS SO THAT THE CENTER OF THE BARS ARE A MINIMUM OF 6 INCHES AND A MAXIMUM OF 12 INCHES FROM THE LONGITUDINAL JOINT AND THE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 4 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.

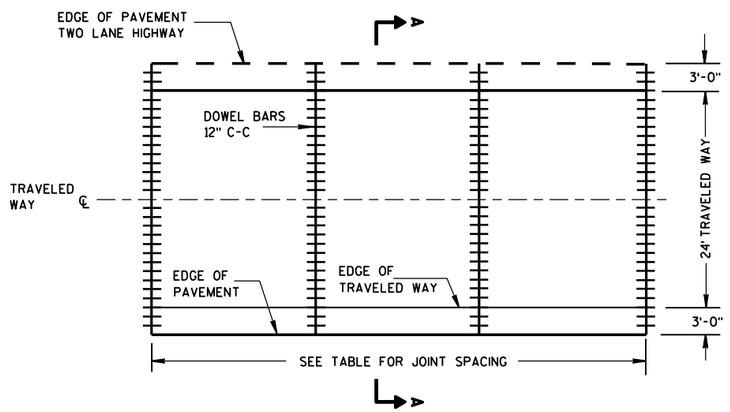
THE CONTRACTOR MAY INSERT TIE BARS THROUGH THE HEADER BOARD AFTER THE CONCRETE HAS BEEN PLACED.

① REFER TO TYPICAL CROSS SECTIONS FOR ADDITIONAL DETAILS.

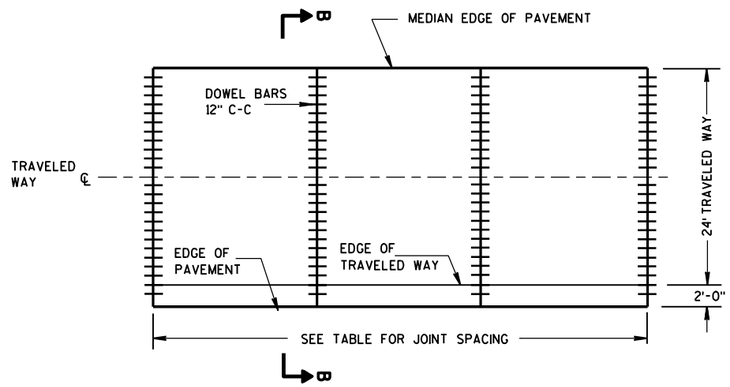
② MEASURE THE ENTIRE PAVED WIDTH INCLUDING THE PORTION(S) LABELED PAVED SHOULDER AS CONCRETE PAVEMENT.

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 ¼"	15'
9", 9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'



CONTRACTION JOINT LAYOUT
FOR TWO-LANE TWO-WAY HIGHWAY



CONTRACTION JOINT LAYOUT
FOR DIVIDED HIGHWAY

RURAL DOWELED
CONCRETE PAVEMENT

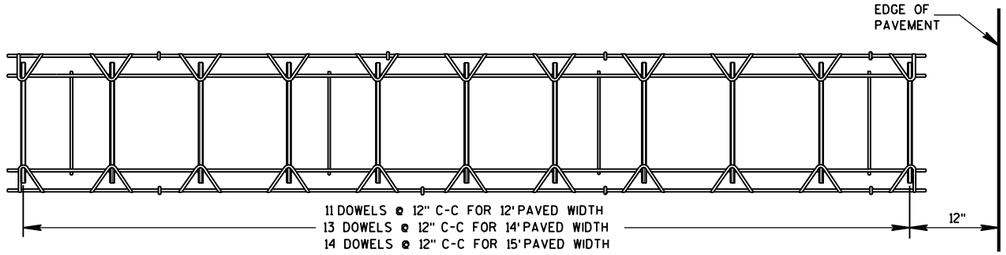
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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S.D.D. 13 C 11-10a

6

S.D.D. 13 C 11-10a

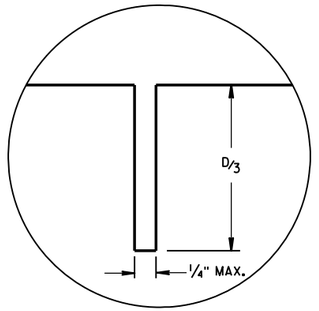


PLAN VIEW

SIDE VIEW

(NORMAL TO CENTERLINE)

CONTRACTION JOINT DOWEL ASSEMBLY ①



JOINT DETAIL

GENERAL NOTES

① THE ENGINEER MAY APPROVE THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. THE CONTRACTOR MAY USE MECHANICAL DOWEL BAR INSERTERS INSTEAD OF DOWEL ASSEMBLIES.

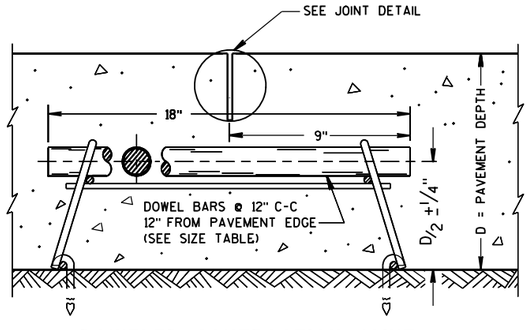
② ANCHOR DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY.

③ APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

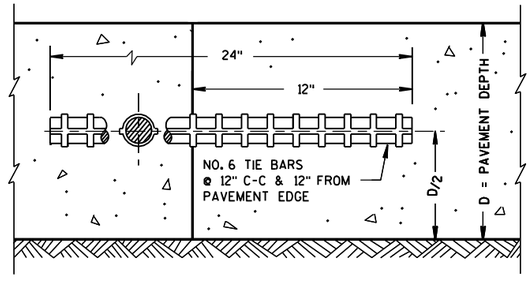
④ SPACE DOWEL BARS INSTALLED BY DRILLING 1'-3" ON CENTER. CENTER THE GROUPING OF DOWEL BARS INSIDE THE SLAB BASED ON ALL THE FOLLOWING SITUATIONS:

BETWEEN THE EDGES OF PAVEMENTS WITHOUT LONGITUDINAL JOINTS OR BETWEEN THE EDGE OF PAVEMENT AND NEAREST LONGITUDINAL JOINT OR BETWEEN TWO ADJACENT LONGITUDINAL JOINTS.

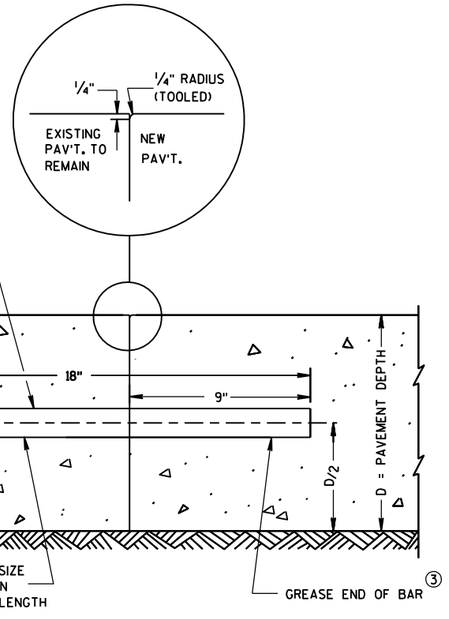
⑤ SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.



DOWELED CONTRACTION JOINT



CONSTRUCTION JOINT



TRANSVERSE CONTRACTION JOINTS ABUTTING EXISTING PAVEMENT

④ DOWEL BAR DETAIL

RURAL DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

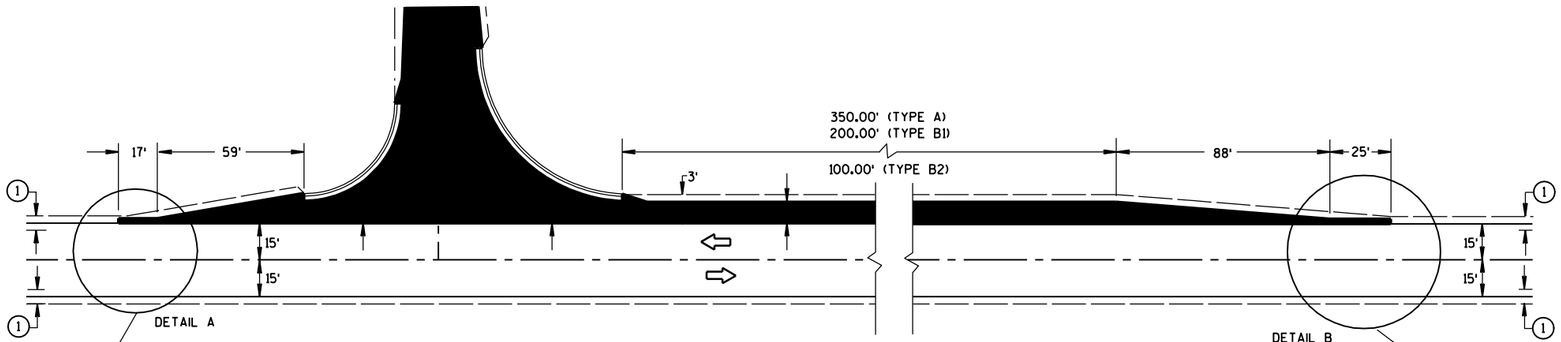
APPROVED
12/11/09 — DATE
/S/ Deb Bischoff — PAVEMENT POLICY & DESIGN ENGINEER
FHWA

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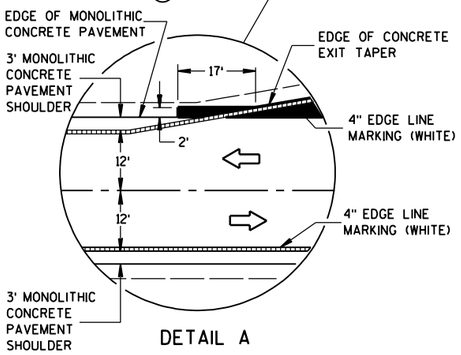
S.D.D. 13 C 11-10b

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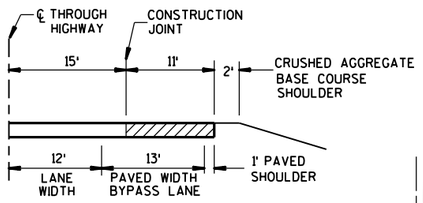
S.D.D. 13 C 11-10b



RIGHT TURN LANE AND EXIT TAPER

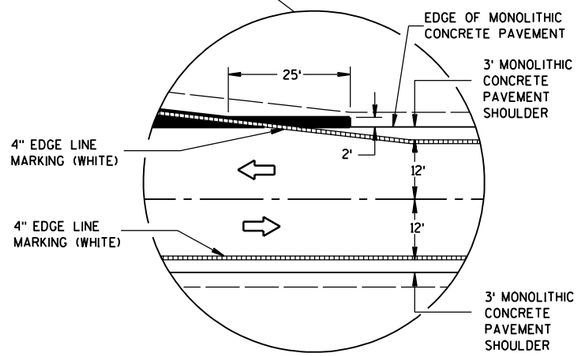


DETAIL A



SECTION A-A

(SHOWING BYPASS LANE AND SHOULDER)



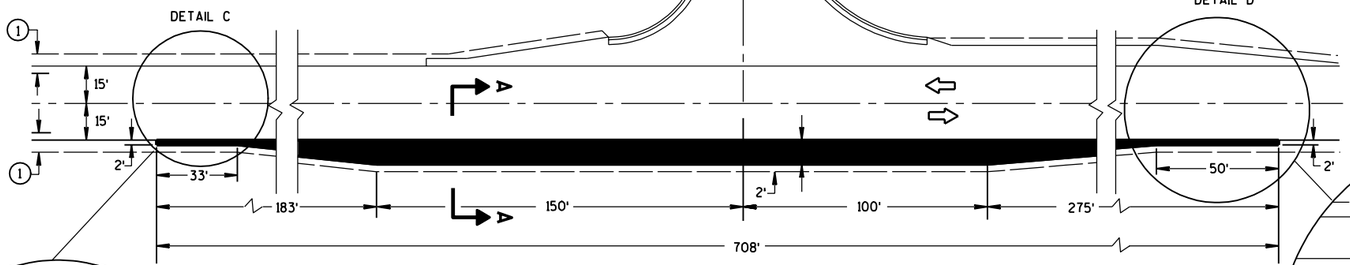
DETAIL B

GENERAL NOTES

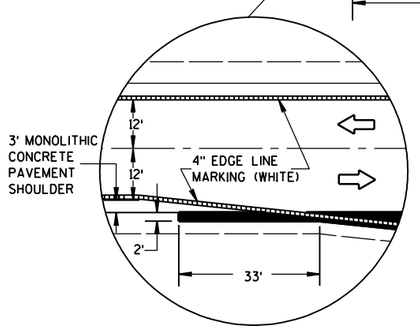
CONTINUE SAW CUT CONTRACTION JOINT ACROSS TURN LANE, EXIT TAPER AND PASSING LANE.

PAVEMENT MARKING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.

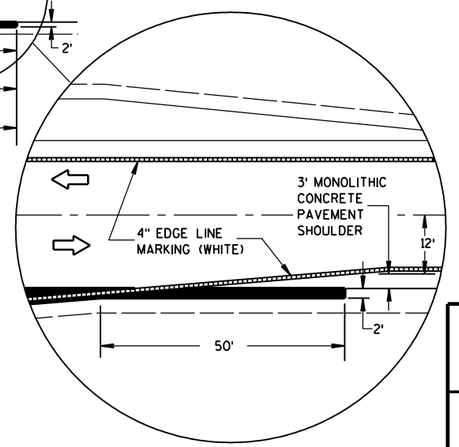
SHOULDER WIDTH TABLE (1)		
DESIGN CLASS	PAVED	TOTAL
A1	3 ft.	6 ft.
C3, L4	3 ft.	6 ft.
A2	3 ft.	10 ft.
C4, L5	3 ft.	8 ft.



TWO LANE UNDIVIDED HIGHWAY TEE INTERSECTION BYPASS LANE



DETAIL C



DETAIL D

CONCRETE PAVEMENT JOINT DETAILS

CONCRETE JOINT DETAIL FOR TEE INTERSECTION BYPASS LANE AND RIGHT TURN LANE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/27/98
DATE

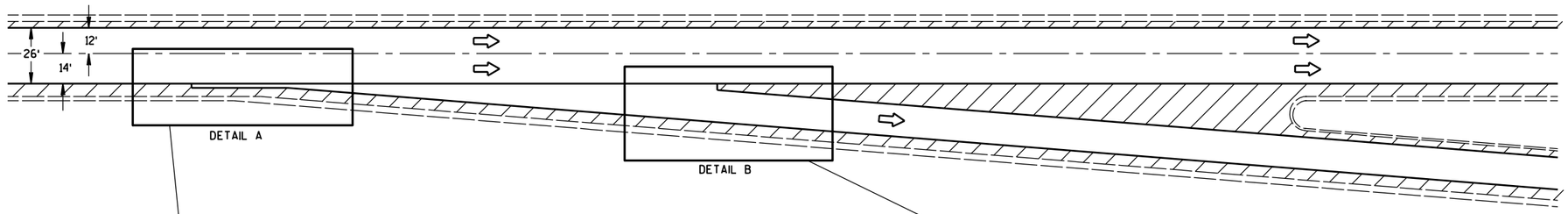
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

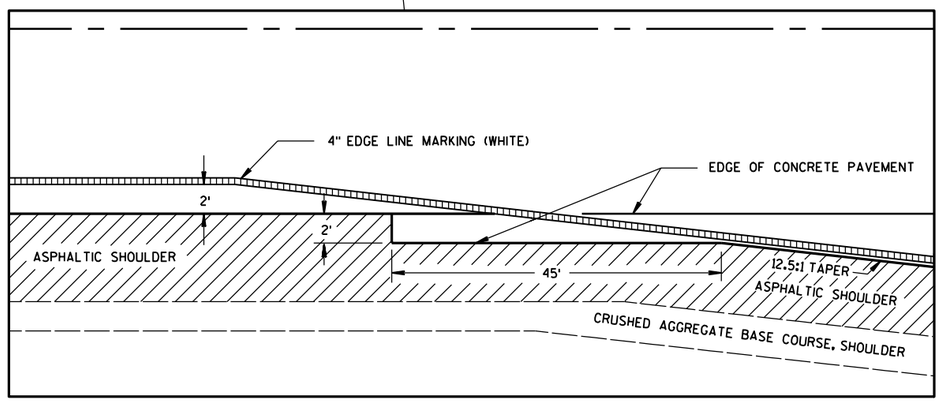
S.D.D. 13 C 16-1

6

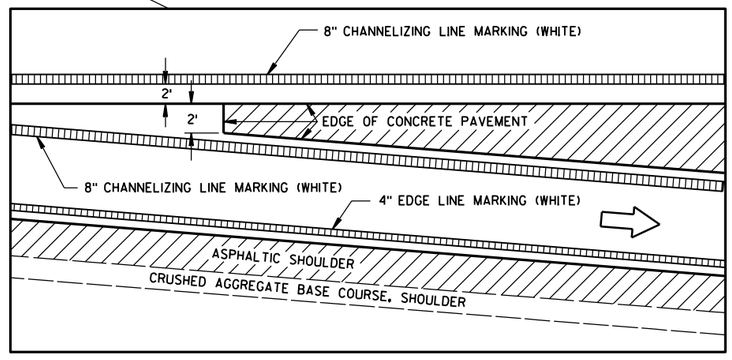
S.D.D. 13 C 16-1



EXIT RAMP DETAIL



DETAIL A



DETAIL B

CONCRETE JOINT PAVING DETAILS

GENERAL NOTES

PAVEMENT MARKING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.

SEE SDD 13 A 4-4c OR SDD 13 A 5-1b FOR RAMP AND GORE RUMBLE STRIP LOCATION.

CONCRETE JOINT DETAIL FOR EXIT RAMP TERMINI

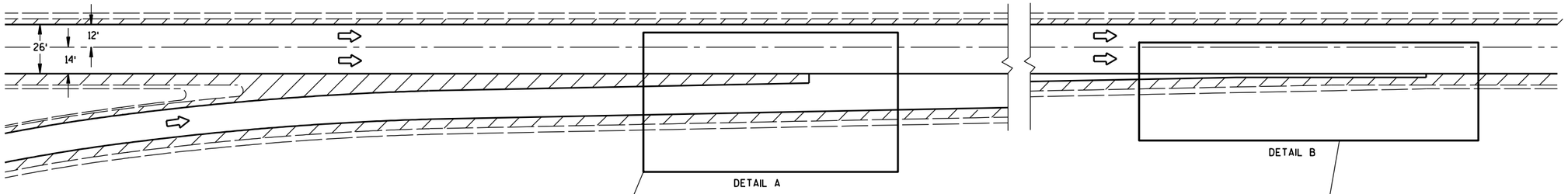
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S.D.D. 13 C 17-1a

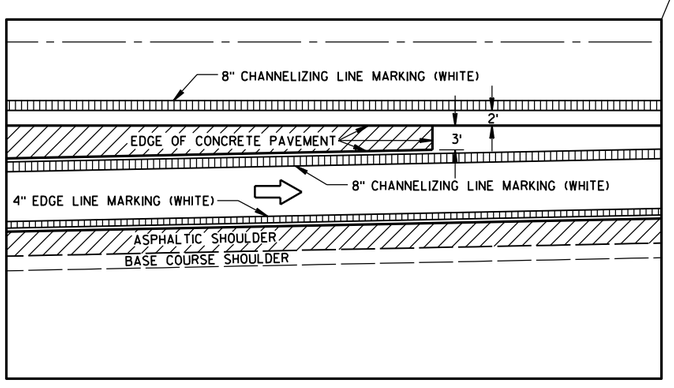
S.D.D. 13 C 17-1a

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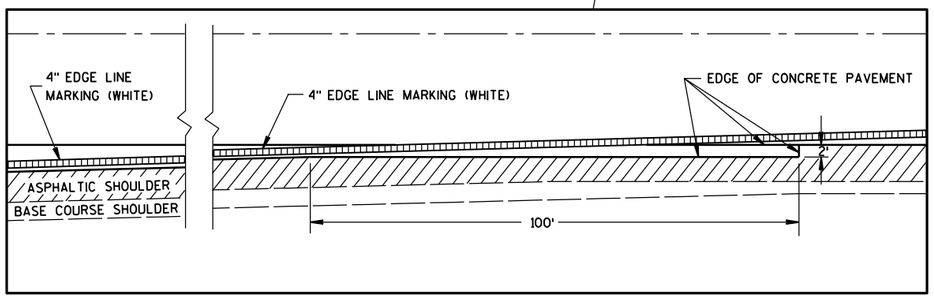
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ENTRANCE RAMP DETAIL



DETAIL A



DETAIL B

CONCRETE JOINT PAVING DETAILS

GENERAL NOTES

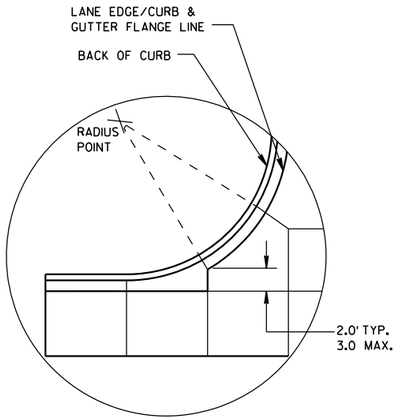
PAVEMENT MARKING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.

SEE SDD 13 A 4-4c OR SDD 13 A 5-1b FOR RAMP AND GORE RUMBLE STRIP LOCATION.

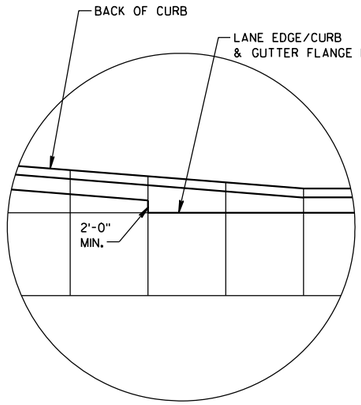
CONCRETE JOINT DETAIL FOR ENTRANCE RAMP TERMINI

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

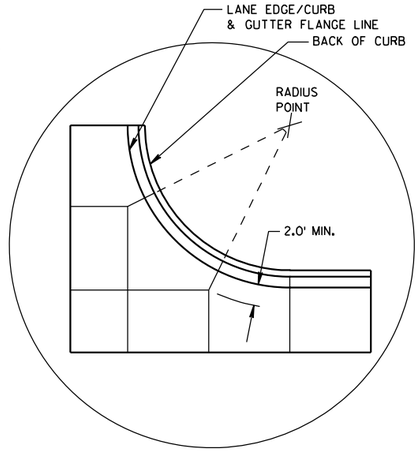
APPROVED
5/27/98
DATE
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA



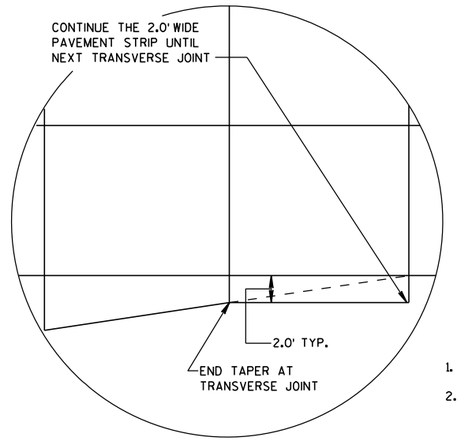
DETAIL "A"



DETAIL "B"



DETAIL "C"



DETAIL "D"

GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G. MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

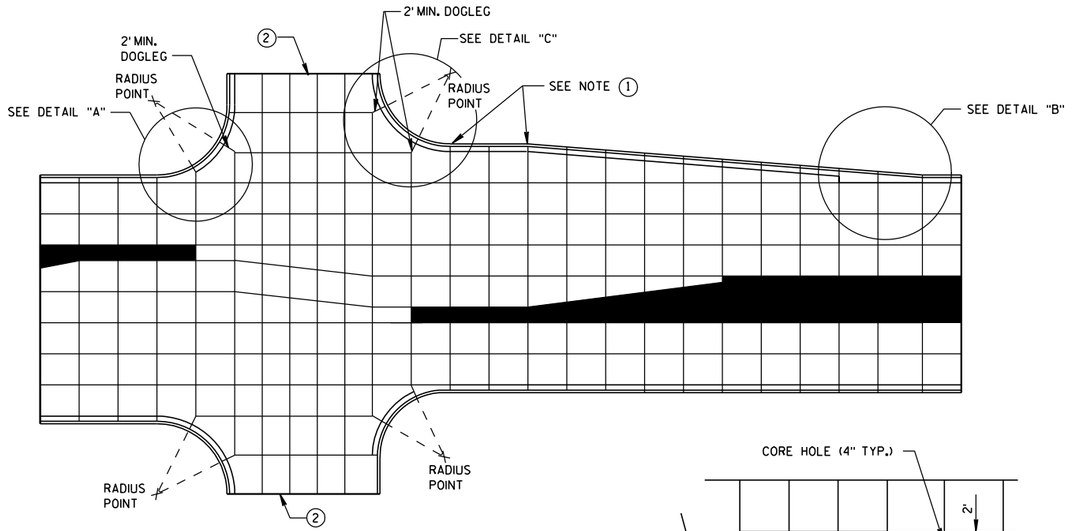
AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

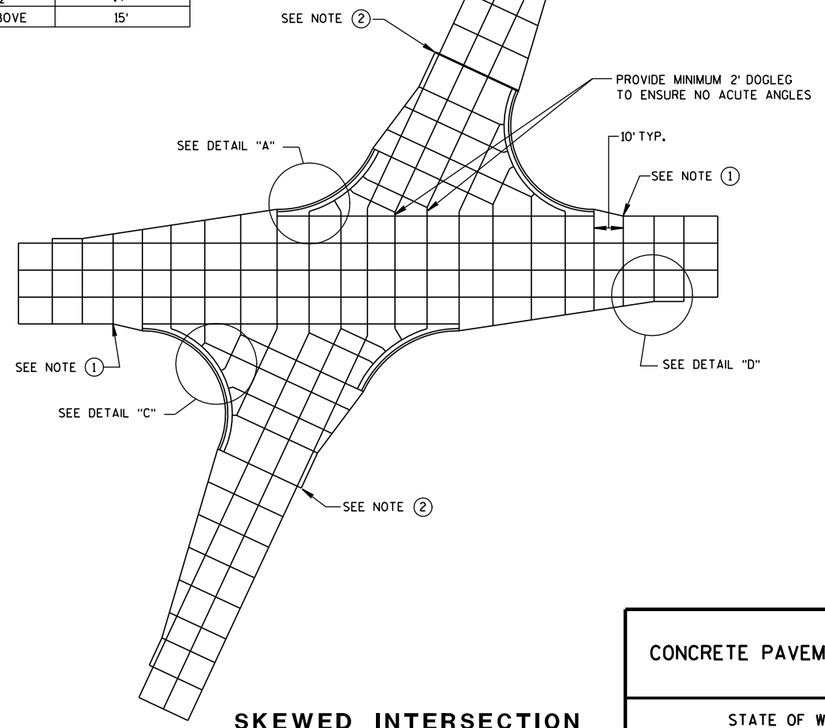
1. PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.
2. CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH EDGE OF RADIUS.
3. THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



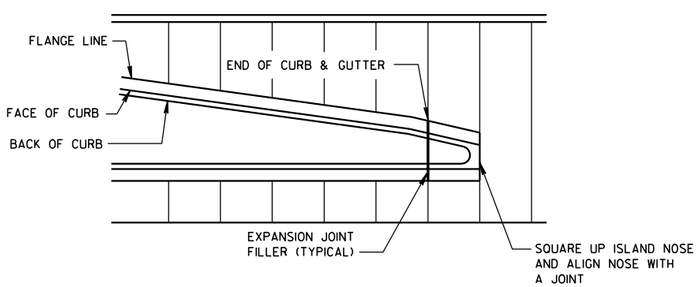
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

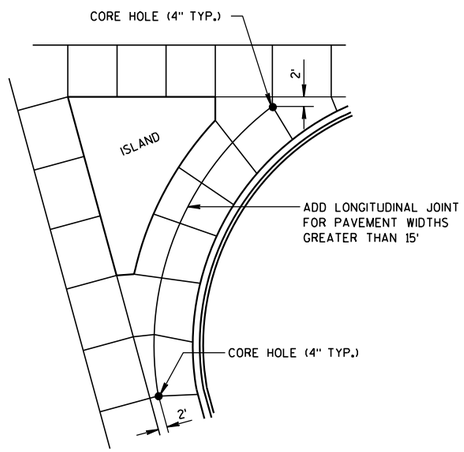
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6½"	12'
7", 7½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



APPROACH TO MEDIAN



LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

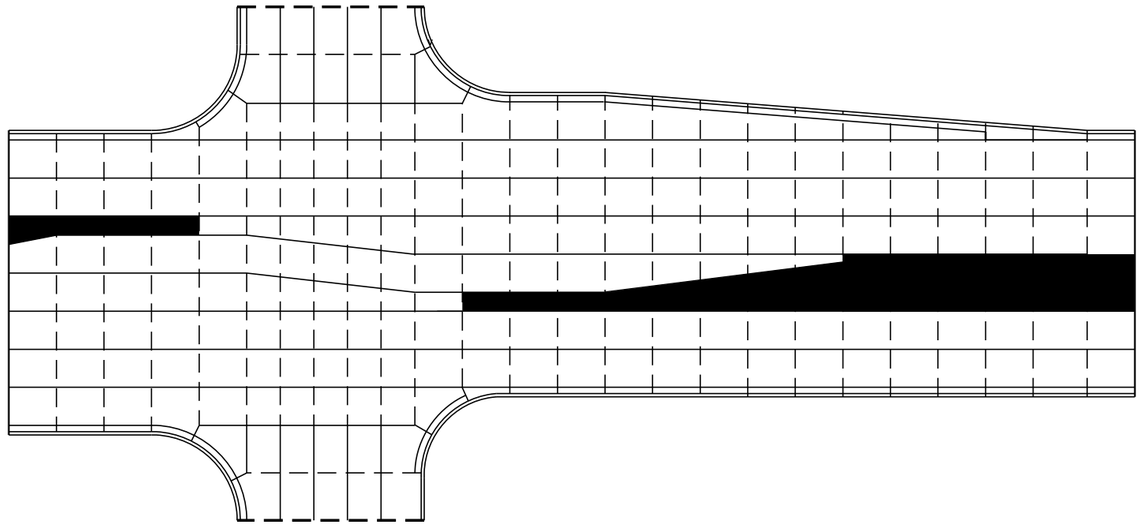
S.D.D. 13C18-1a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

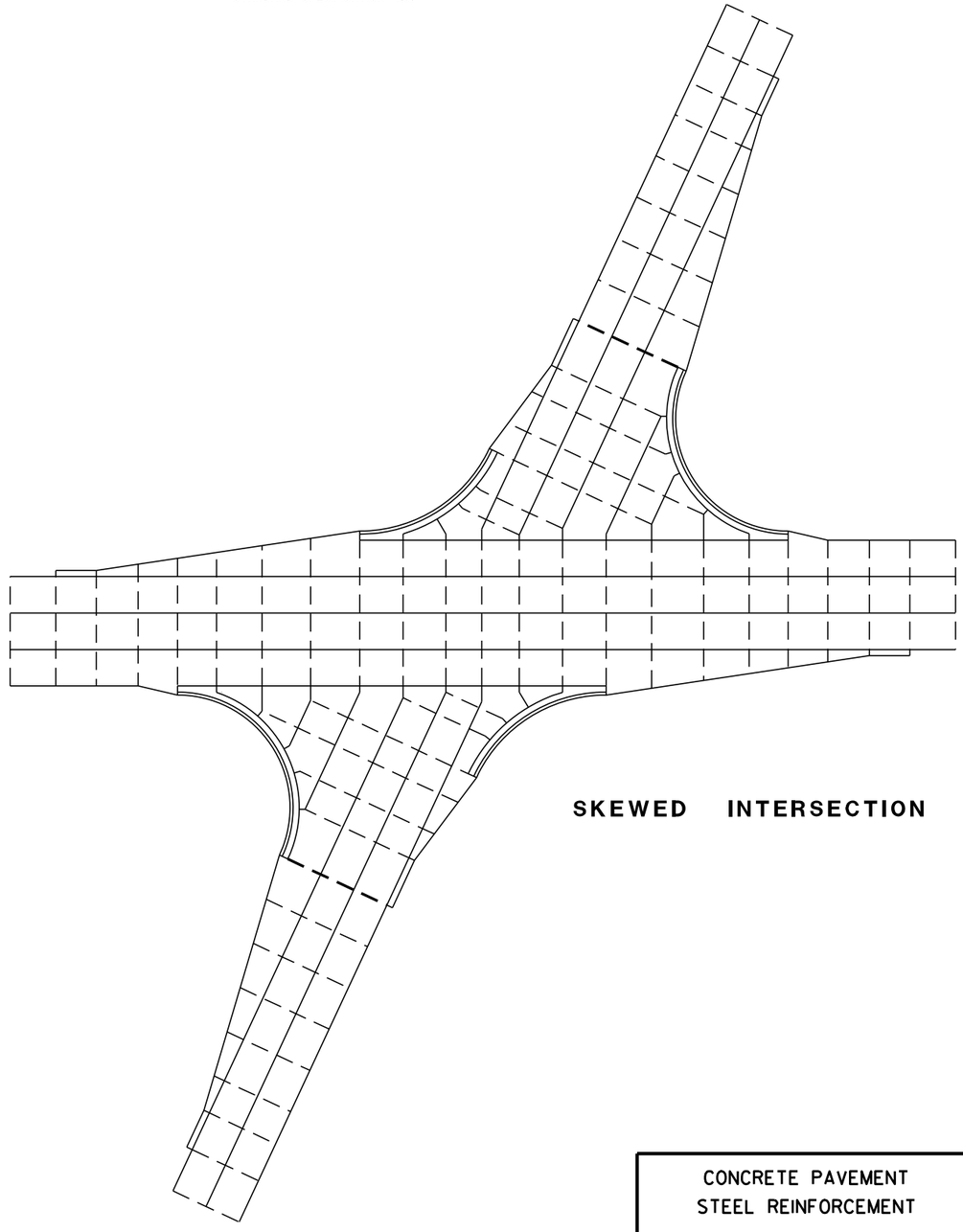
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

6

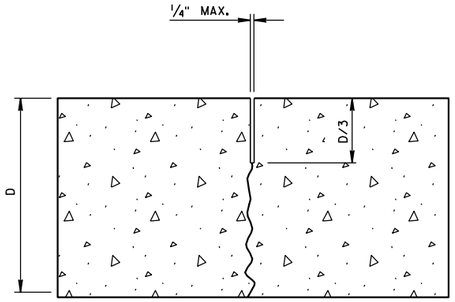
S.D.D. 13C18-1b

CONCRETE PAVEMENT
STEEL REINFORCEMENT

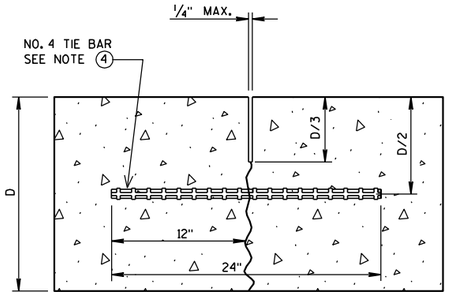
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATIO

6

S.D.D. 13C18-1b



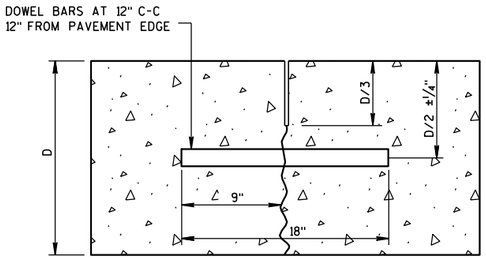
UNDOWELED-TRANSVERSE



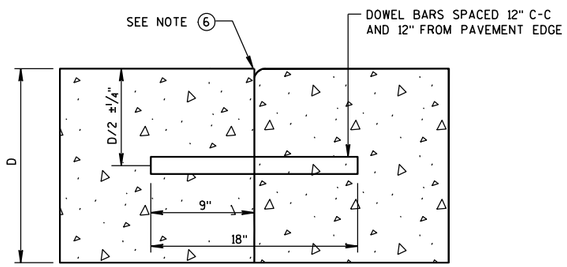
TIED LONGITUDINAL

GENERAL NOTES

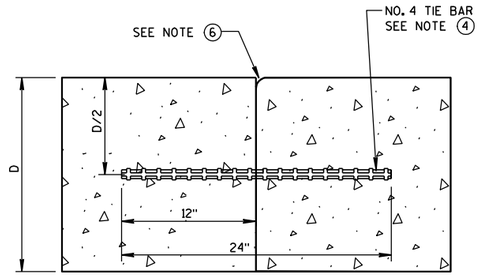
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATE THE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 4 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO THE CONTRACTION JOINTS.
4. SPACE TIE BARS AT LONGITUDINAL CONSTRUCTION OR CONTRACTION JOINTS IN ACCORDANCE WITH SDD 13C1.
5. CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.
6. IF JOINT IS FORMED, PROVIDE A 1/4-INCH RADIUS.



DOWELED-TRANSVERSE



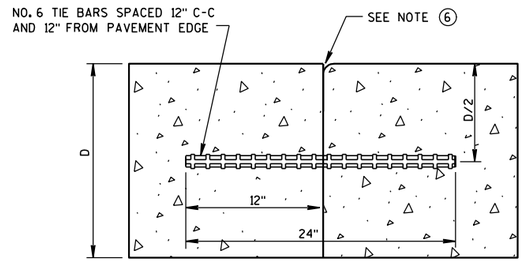
DOWELED TRANSVERSE



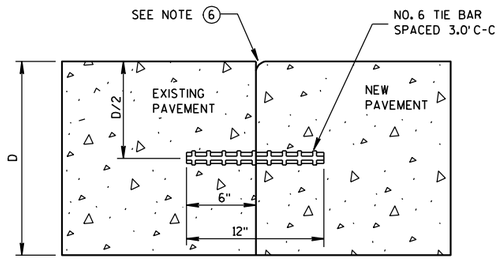
TIED LONGITUDINAL

CONTRACTION JOINTS

SEE NOTE (2)



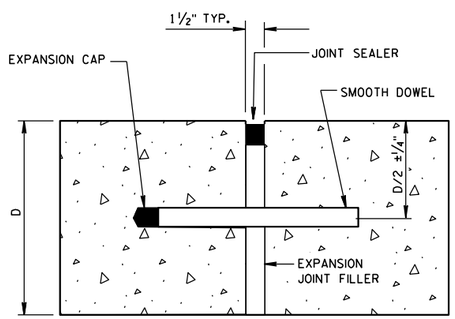
TIED TRANSVERSE
SEE NOTE (3)



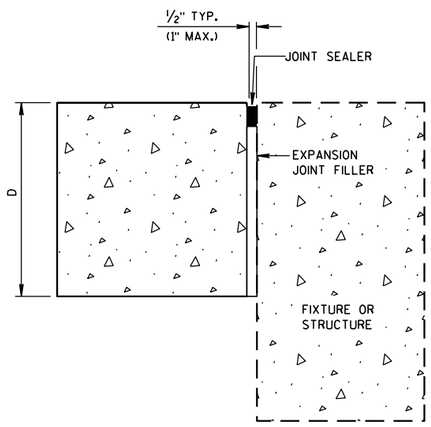
TIED LONGITUDINAL TO EXISTING

CONSTRUCTION JOINTS

SEE NOTE (5)



DOWELED-TRANSVERSE
SEE NOTE (1)



UNTIED-LONGITUDINAL

EXPANSION JOINTS

CONCRETE PAVEMENT
JOINT TYPES

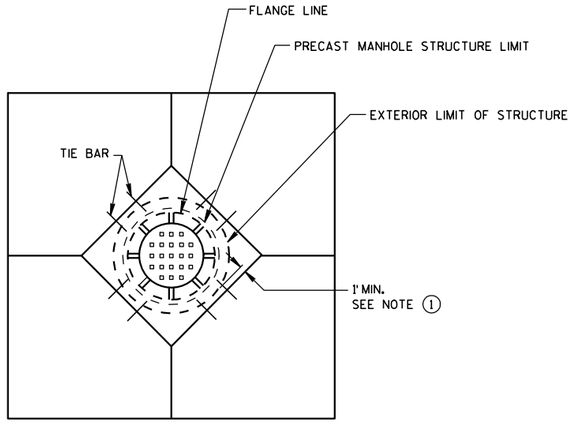
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

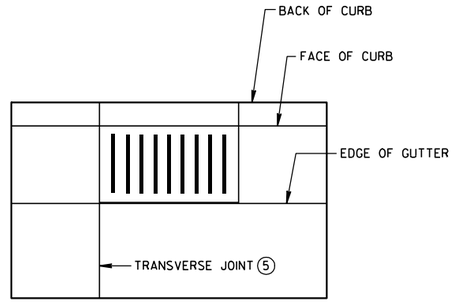
S.D.D. 13 C 18-1c

6

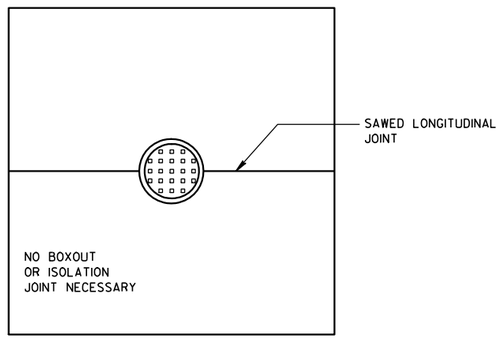
S.D.D. 13 C 18-1c



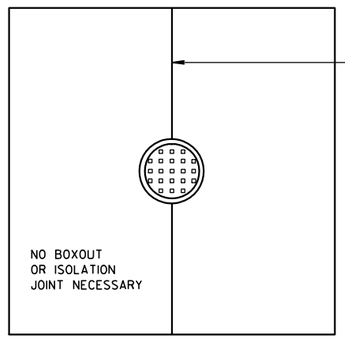
DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS



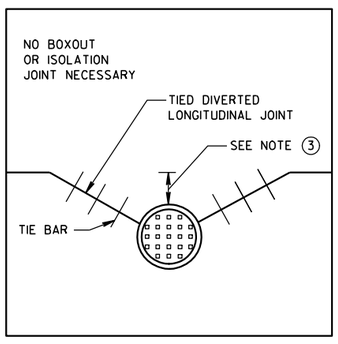
INLET WITH TRANSVERSE JOINT



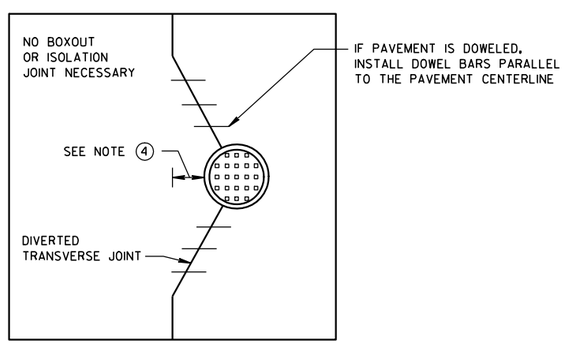
MANHOLE WITH LONGITUDINAL JOINT



MANHOLE WITH TRANSVERSE JOINT



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT

GENERAL NOTES

1. USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1 FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
2. ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
3. IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS GREATER THAN 2 FEET, DO NOT DIVERT JOINT AND SAW LONGITUDINAL JOINT AS NORMAL. IF DISTANCE IS 2 FEET OR LESS, DIVERT LONGITUDINAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE.
4. IF DISTANCE FROM THE EDGE OF MANHOLE TO THE NEAREST TRANSVERSE JOINT IS GREATER THAN 4 FEET, REDIRECT JOINT TO INTERSECT MANHOLE. IF DISTANCE IS 4 FEET OR LESS, PLACE REBAR REINFORCEMENT AROUND MANHOLE.
5. ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.

6

S.D.D. 13C18-1d

CONCRETE PAVEMENT
JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10-5-2010
DATE

/S/ Deb Bischoff
PAVEMENT POLICY & DESIGN ENGINEER

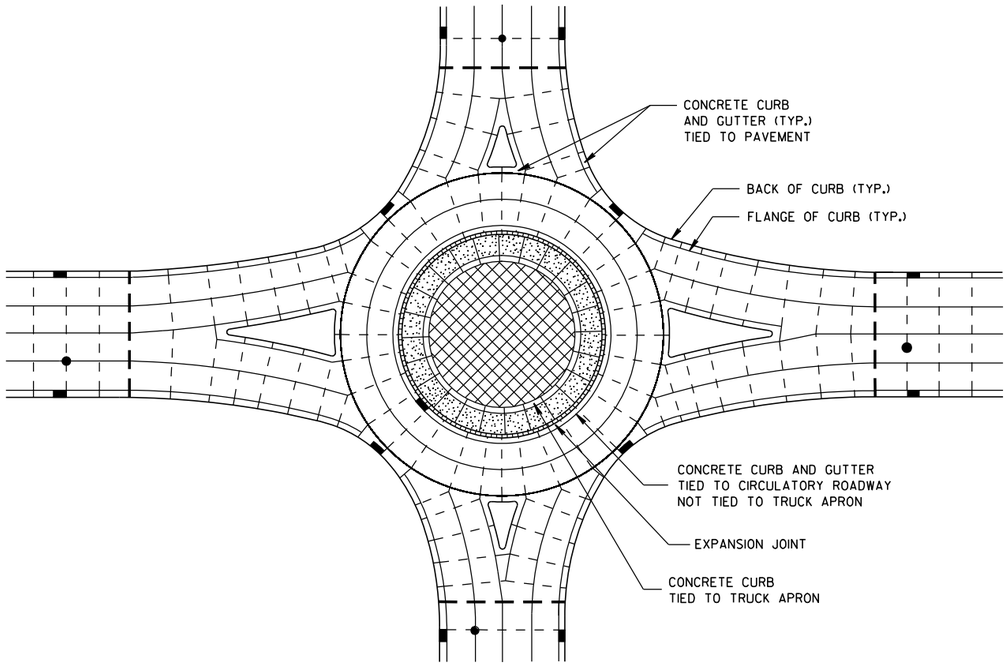
FHWA

6

S.D.D. 13C18-1d

LEGEND

- DOWELED JOINT
- TIED JOINT
- EXPANSION JOINT
- POTENTIAL DOWELED EXPANSION JOINT
- TRUCK APRON
- CENTRAL ISLAND
- UTILITY STRUCTURES



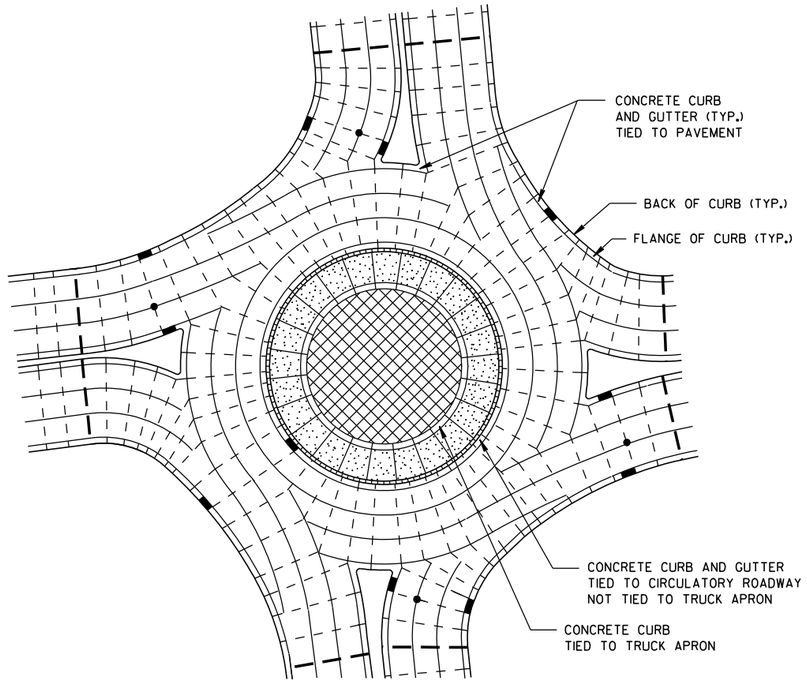
ISOLATED CIRCLE JOINT LAYOUT FOR ROUNDABOUTS

GENERAL NOTES

MAXIMUM JOINT SPACING IS IN ACCORDANCE WITH THE TABLE SHOWN ON SDD 13C18-1a.

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.

DO NOT DOWEL OR TIE THE TRUCK APRON TRANSVERSE JOINTS.



PINWHEEL JOINT LAYOUT FOR ROUNDABOUTS

6

6

S.D.D. 13 C 18-1e

S.D.D. 13 C 18-1e

CONCRETE PAVEMENT JOINTING AND STEEL REINFORCEMENT IN ROUNDABOUTS

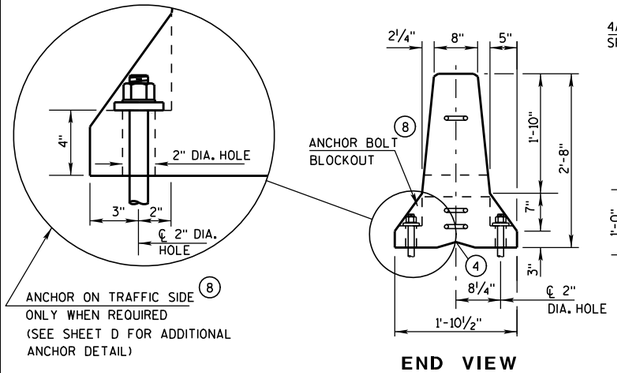
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

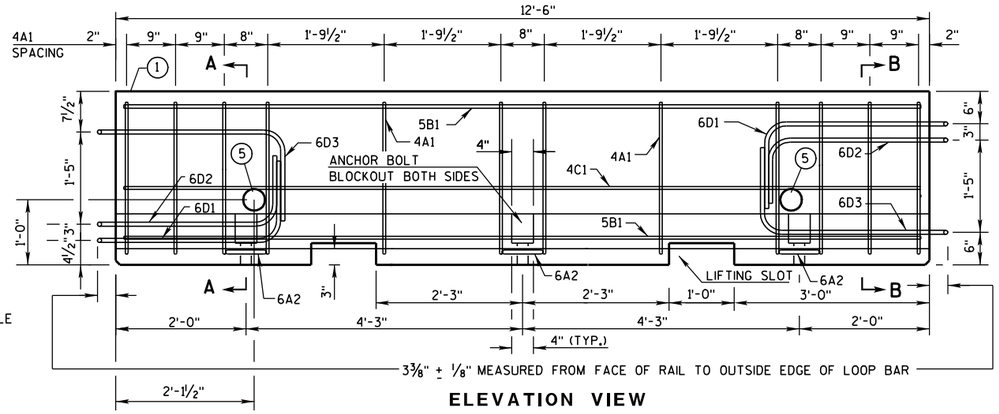
10-5-2010
DATE

/S/ Deb Bischoff
PAVEMENT POLICY & DESIGN ENGINEER

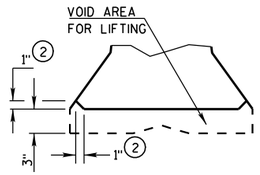
FHWA



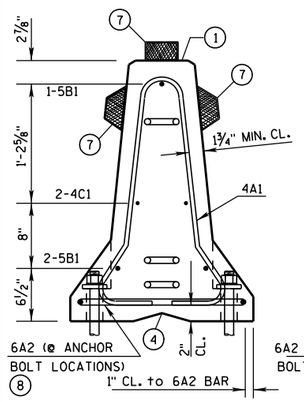
END VIEW



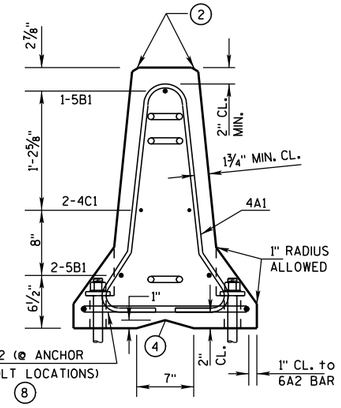
ELEVATION VIEW



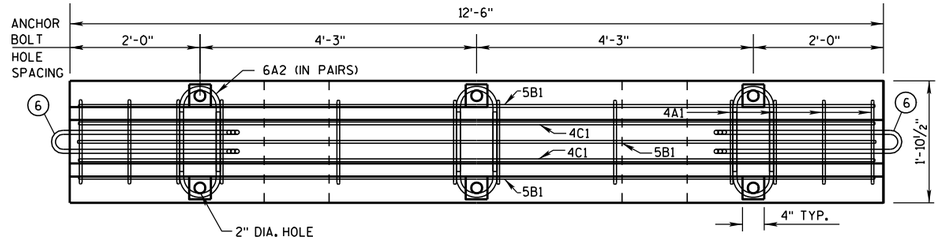
DETAIL "B"
LIFTING SLOT DETAIL



SECTION A-A
(STIRRUP PLACEMENT)

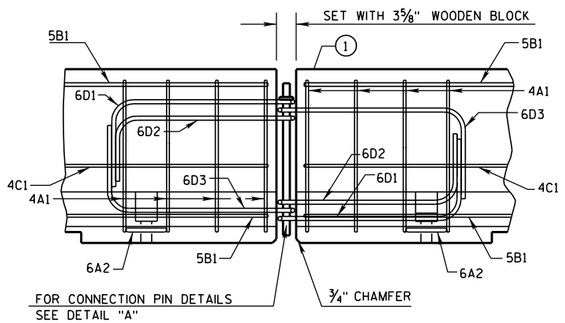


SECTION B-B
(STIRRUP PLACEMENT)

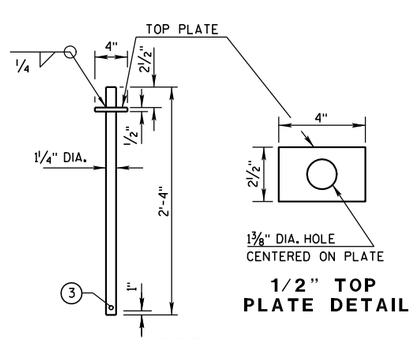


PLAN VIEW

DETAILS OF BARRIER SECTION



DETAILS OF BARRIER CONNECTION



1/2" TOP PLATE DETAIL

DETAIL "A"
CONNECTION PIN
(A36 STEEL (10.9 LB EACH))

GENERAL NOTES

THESE GENERAL NOTES APPLY TO SHEETS 14B7-12(a) THRU 14B7-12(d).

DETAILS AND REQUIREMENTS FOR THE FABRICATION AND INSTALLATION OF CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" (CBTP12.5) ARE SHOWN ON 4 SHEETS, 14B7-12(a) THRU 14B7-12(d)

DO NOT INTERMIX CONCRETE BARRIER TEMPORARY PRCAST, 12'-6" (CBTP12.5) WITH OTHER TEMPORARY CONCRETE BARRIERS.

USE ASTM A-615, GRADE 60, DEFORMED STEEL BARS FOR BARS 4A1, 6A2, 5B1 AND 4C1 IN THE BARRIER SECTION AND FOR 4V1, 4V2, 4V3, 4V4, 4V5, 4V6, 4F1, 4F2 AND 5F3 IN THE BARRIER TAPER SECTION.

LOOP BARS 6D1, 6D2 AND 6D3 SHALL BE ¾" SMOOTH STEEL BARS WITH A MINIMUM YIELD STRENGTH OF 60 KSI, A TENSILE STRENGTH OF NOT LESS THAN 1.25 TIMES THE YIELD STRENGTH BUT A MINIMUM OF 80 KSI, A MINIMUM 14% ELONGATION IN 8 INCHES AND PASSING A 180 DEGREE BEND TEST USING A 3-½" PIN BEND DIAMETER FOR BEND TESTS. THE LOOPS SHALL BE INSTALLED WITHIN ⅛" OF THE PLAN DIMENSION.

CONSTRUCT LIFTING SLOTS AS SPECIFIED ON THE PLANS TO FACILITATE THE DRAINAGE OF WATER AFTER INSTALLATION.

PLACE BARRIER ON A PAVED SURFACE. REMOVE ALL LOOSE DIRT AND SAND FROM THE ROADWAY SURFACE PRIOR TO PLACEMENT OF THE BARRIER.

(1) MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
- a. TYPE: WI CBTP
- b. MANUFACTURER
- c. DATE MANUFACTURED (MONTH AND YEAR)

(2) 1" CHAMFER TO PREVENT SPALLING.

(3) A ⅜" HOLE IN THE CONNECTION PIN, AT THE LOCATION SHOWN, IS ACCEPTABLE, BUT NOT REQUIRED..

(4) "V" NOTCH IS OPTIONAL.

(5) THE 4" DIAMETER, 11 GAUGE STEEL, ROUND MECHANICAL TUBING SLEEVE FOR LIFTING (OPTIONAL).

(6) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

(7) USE DELINEATORS CONFORMING TO SECTION 633 OF THE STANDARD SPECIFICATIONS. CONTRACTOR MAY USE ALTERNATE SHAPES AND HOUSING. INSTALL DELINEATORS ACCORDING TO MANUFACTURES INSTRUCTION. INSTALL YELLOW REFLECTORS WHEN BARRIER IS LOCATED TO THE LEFT OF TRAFFIC AND WHITE REFLECTORS WHEN BARRIER IS LOCATED TO THE RIGHT OF TRAFFIC. SPACE DELINEATORS A MAXIMUM OF 25 FEET APART. PROVIDE TOP MOUNTED DELINEATORS IN ADDITION TO THE SIDE MOUNTED DELINEATORS ON ALL BARRIER INSTALLATIONS LOCATED ON A CURVED ALIGNMENT LONGER THAN 200 FEET AND ON BARRIERS USED TO SEPARATE OPPOSING TRAFFIC.

(8) SEE SHEET D FOR ANCHORING CRITERIA.

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

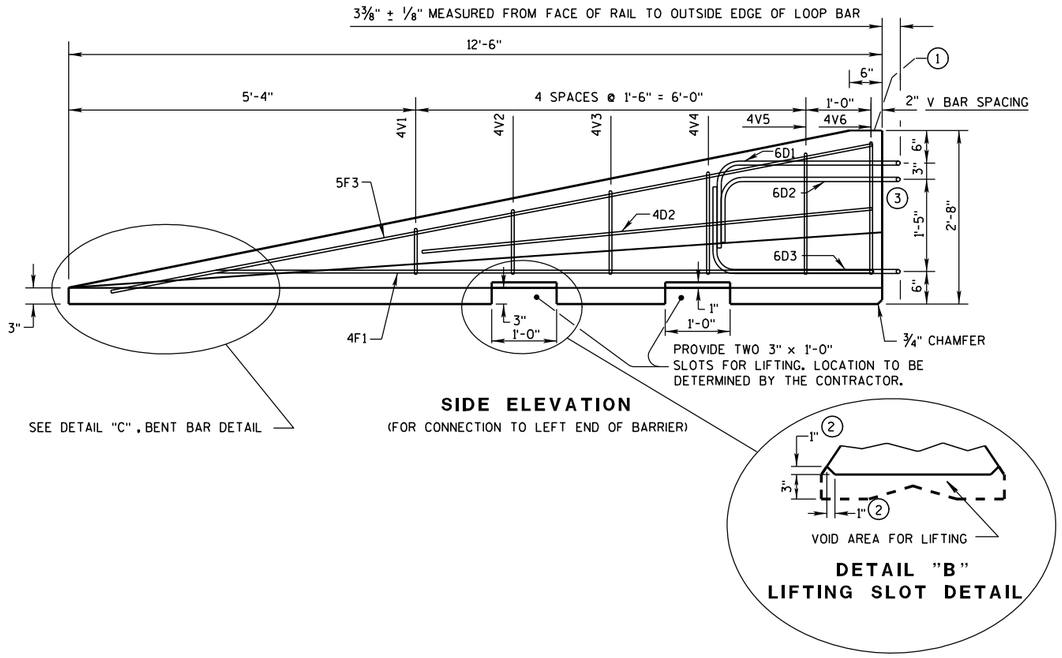
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

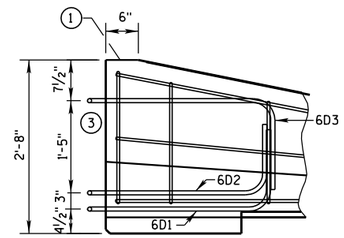
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S.D.D. 14 B 7-12a

6

S.D.D. 14 B 7-12a





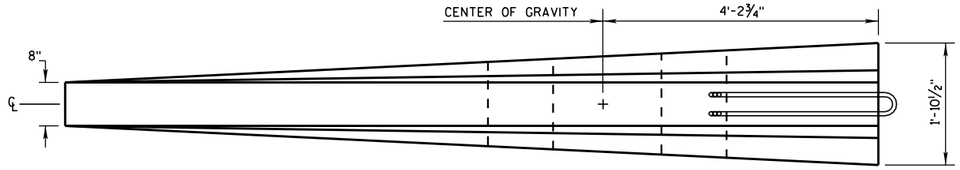
SIDE ELEVATION

LOOP BAR ASSEMBLY INVERTED FOR OPPOSITE END.

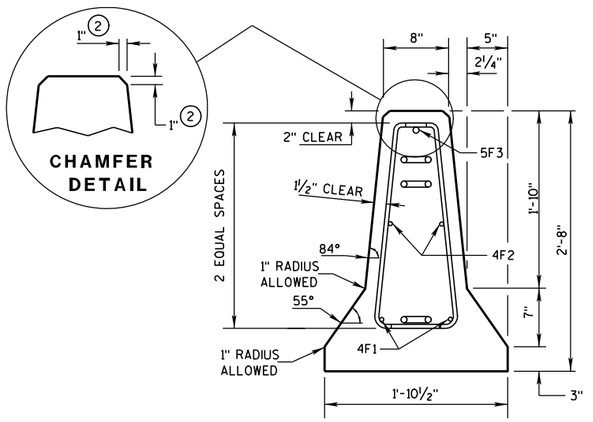
(FOR CONNECTION TO RIGHT END OF BARRIER)

GENERAL NOTES

1. MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
   a. TYPE WICBTP
   b. MANUFACTURER
   c. DATE MANUFACTURED (MONTH AND YEAR)
2. 1" CHAMFER TO PREVENT SPALLING.
3. NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

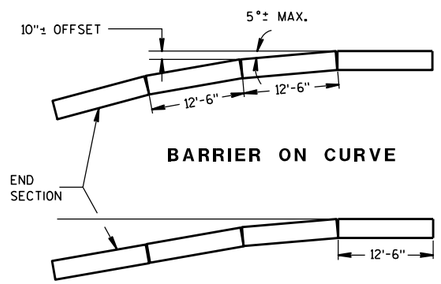


PLAN VIEW



END SECTION

FRONT ELEVATION



FLARE AT BARRIER END

POSTED SPEED, (MPH)	FLARE RATE
40 OR LESS	6:1
45 OR GREATER	8:1

DETAILS OF BARRIER TAPER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 14 B 7-12b

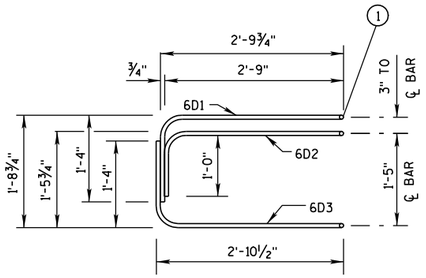
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S.D.D. 14 B 7-12b

BARRIER TAPER SECTION BILL OF MATERIALS

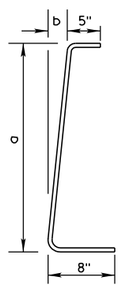
(PER 12'-6" BARRIER TAPER SECTION)

BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4V1	4	2	1'-11"
4V2	4	2	2'-2"
4V3	4	2	2'-6"
4V4	4	2	2'-9"
4V5	4	2	3'-2"
4V6	4	2	3'-4"
4F1	4	2	12'-0"
4F2	4	2	7'-6"
5F3	5	1	11'-9"
LOOP ASSEMBLY			
6D1	6	1	8'-5"
6D2	6	1	7'-7"
6D3	6	1	8'-6"



ELEVATION
LOOP BAR ASSEMBLY

DETAIL "C"
BENT BAR DETAIL



BAR	a	b
V1	10"	1"
V2	1'-1"	1¼"
V3	1'-5"	1⅝"
V4	1'-8"	1⅞"
V5	2'-0½"	2⅜"
V6	2'-3"	2¾"

4V BARS
2 AT EACH SIZE REQUIRED
FOR STIRRUP ASSEMBLY

TAPER BARRIER SECTION

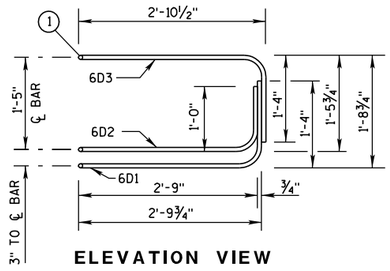
GENERAL NOTES

(1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

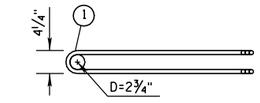
BARRIER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER SECTION)

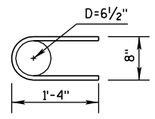
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4A1	4	12	6'-0"
6A2	6	6	2'-11"
5B1	5	3	12'-2"
4C1	4	2	12'-2"
LOOP ASSEMBLY			
6D1	6	2	8'-5"
6D2	6	2	7'-7"
6D3	6	2	8'-6"



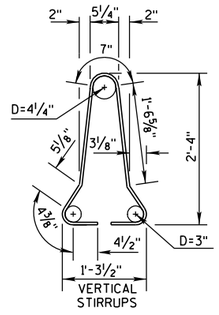
ELEVATION VIEW



PLAN VIEW
LOOP BAR ASSEMBLY
(MARKED END SHOWN, INVERT FOR OTHER END)



6A2



4A1

BARRIER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

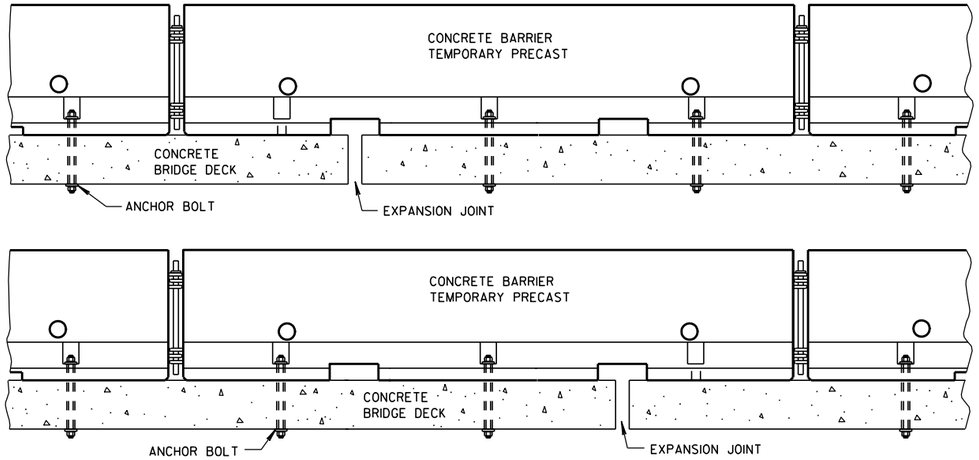
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 14 B 7-12c

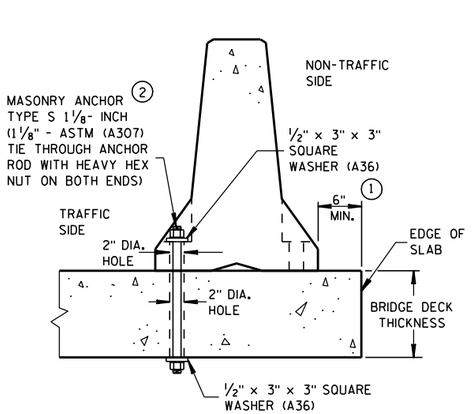
6

S.D.D. 14 B 7-12c



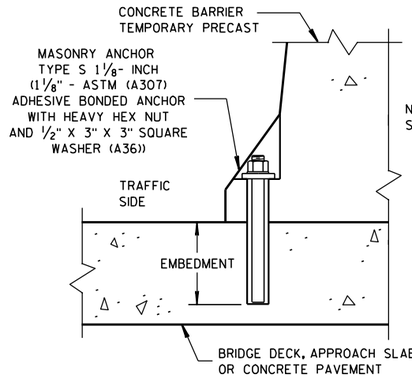
TREATMENT AT BRIDGE DECK EXPANSION JOINTS

(NO SINGLE CONCRETE BARRIER SECTION SHALL BE ANCHORED TO BOTH THE BRIDGE DECK AND THE APPROACH SLAB. ALL ANCHOR BOLT LOCATIONS SHALL BE ANCHORED TO THE DECK IN ACCORDANCE WITH THE DETAIL. NO MORE THAN ONE ANCHOR BOLT SHALL BE ELIMINATED FROM A BARRIER SECTION WHEN SPANNING AN EXPANSION JOINT.)



THROUGH BOLTED ANCHOR INSTALLATION ON BRIDGE DECK

(DO NOTUSE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)



REMOVABLE ADHESIVE BONDED ANCHOR (2) INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR CONCRETE PAVEMENT

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)

GENERAL NOTES

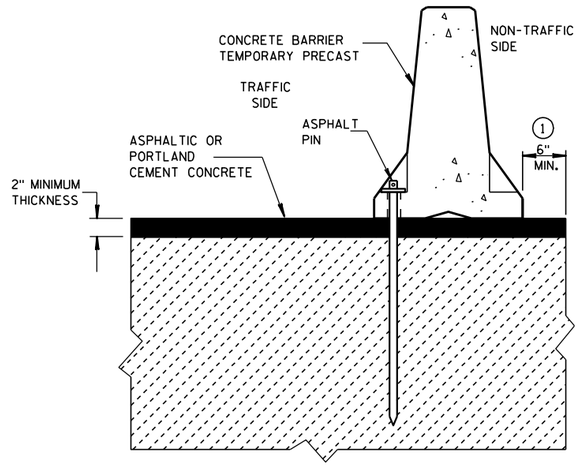
(1) CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" SHALL BE ANCHORED IF:
THE DISTANCE TO A 2 FOOT OR GREATER DROPOFF THAT IS STEEPER THAN 3H : 1V, FOR EXAMPLE THE EDGE OF A BRIDGE DECK OR A DROPOFF AT THE EDGE OF PAVEMENT, IS LESS THAN 4 FEET FROM THE SIDE OF THE BARRIER CLOSEST TO THE DROPOFF AND THE POSTED SPEED IS 45 MPH OR GREATER, OR

THE DISTANCE TO A 2 FOOT OR GREATER DROPOFF THAT IS STEEPER THAN 3H : 1V, FOR EXAMPLE THE EDGE OF A BRIDGE DECK OR A DROPOFF AT THE EDGE OF PAVEMENT. IS LESS THAN 2 FEET FROM THE SIDE OF THE BARRIER CLOSEST TO THE DROPOFF AND THE POSTED SPEED IS 40 MPH OR LESS.

(2) ANCHORING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST.

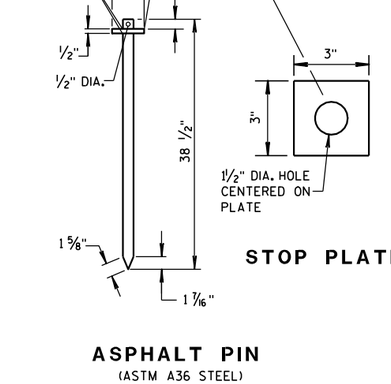
WITH THE APPROVAL OF THE ENGINEER, REMOVABLE ADHESIVE BONDED (EPOXY) ANCHOR BOLT INSTALLATION MAY BE USED IN LIEU OF THROUGH BOLTED ANCHOR INSTALLATION. THE ADHESIVE BONDED ANCHOR BOLT MUST BE REMOVABLE. USE ASTM (A307) MASONRY ANCHORS TYPE S 1⅛-INCH, EMBEDDED TO A DEPTH SUFFICIENT TO DEVELOP THE ULTIMATE CAPACITY OF THE ANCHOR BOLT AND PROVIDE DOCUMENTATION TO CONFIRM THIS.

UPON REMOVAL OR RELOCATION OF THE BARRIER UNITS, REMOVE ALLANCHOR BOLTS AND COMPLETELY FILL IN THE REMAINING HOLES IN CONCRETE BRIDGE DECKS, CONCRETE APPROACH SLABS AND CONCRETE PAVEMENTS THAT ARE TO REMAIN, WITH A NON-SHRINK COMMERICAL GROUT OR EPOXY MATERIAL IDENTIFIED ON THE CURRENT WISDOT APPROVED PRODUCTS LIST.

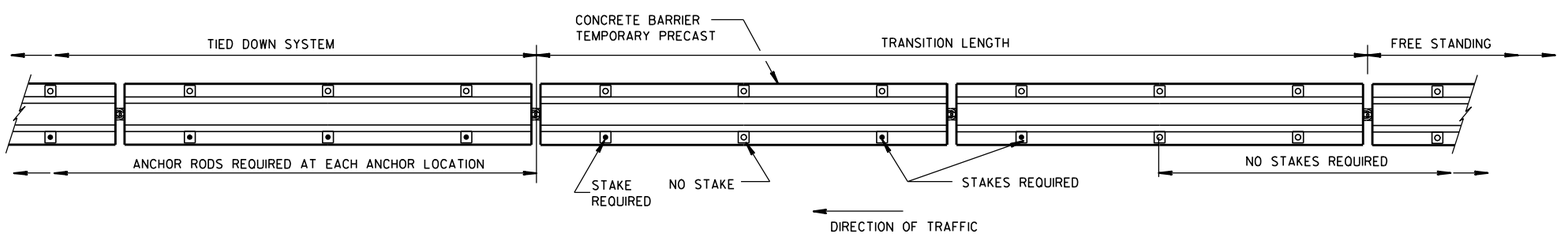


STAKE DOWN INSTALLATION FOR ASPHALTIC OR PORTLAND CEMENT CONCRETE SURFACE

(STAKING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST)



STOP PLATE



PLAN VIEW

FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY. IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN.)

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6-3-2010
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARD DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 14 B 7-12d

6

S.D.D. 14 B 7-12d

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, AND THE APPLICABLE SPECIAL PROVISIONS.

(1) W6 X 9 OR W6 X 8.5 STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POSTS WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS. APPROVED PLASTIC BLOCKOUT DESIGNS MAY VARY FROM THIS TYPICAL DETAIL WHEN USED IN CONJUNCTION WITH STEEL POSTS.

DO NOT MIX STEEL POSTS AND WOOD POSTS IN A SINGLE INSTALLATION.

(2) USE STRUCTURAL STEEL POSTS CONFORMING TO ASTM A 36. GALVANIZED POSTS ACCORDING TO AASHTO M 111. EITHER SET THE POSTS IN DRILLED HOLES OR DRIVE TO GRADE. REMOVE MUSHROOMING CAUSED BY DRIVING AND REPAIR DAMAGED SPELTER COATING ON GALVANIZED POSTS.

(3) INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

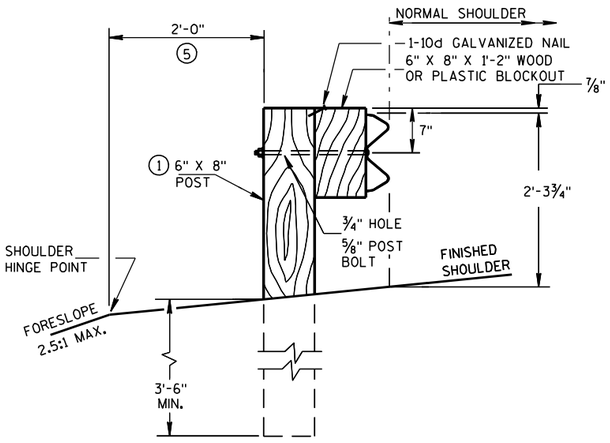
(4) USE EITHER WOOD OR APPROVED PLASTIC BLOCKOUTS ON WOOD POSTS.

(5) IF THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING, W BEAM (LHW).

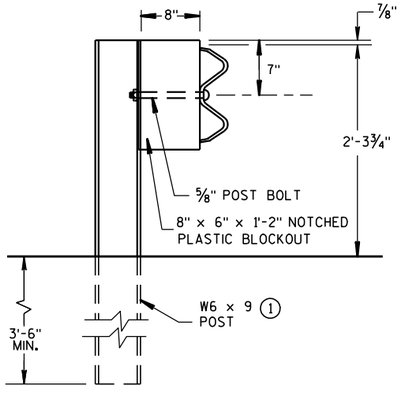
(6) IF ROCK IS ENCOUNTERED DURING EXCAVATION, THE ENGINEER MAY APPROVE USING A 12 INCH DIAMETER POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE APPROXIMATELY 2½ INCHES DEEP. CUT THE POSTS TO LENGTH AND PLACE IN YHE HOLE. BACKFILL WITH MATERIAL EXCAVATED FROM THE HOLE AND COMPACT ADEQUATEY.

INSTALL BEAM GUARD SECTIONS AND ALL NECESSARY HARDWARE ACCORDING TO THE APPLICABLE PLAN AND CURRENT STANDARD AND SUPPLEMENTAL SPECIFICATIONS.

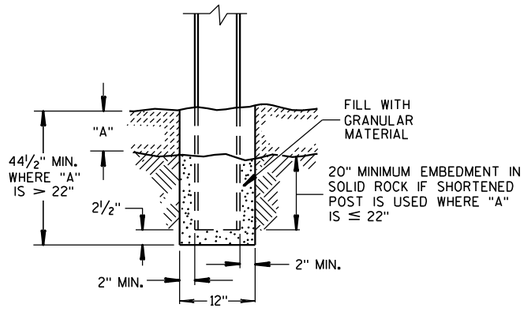
ALL DIMENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCES EXCEPT WHERE ALLOWABLE TOLERANCES ARE SHOWN.



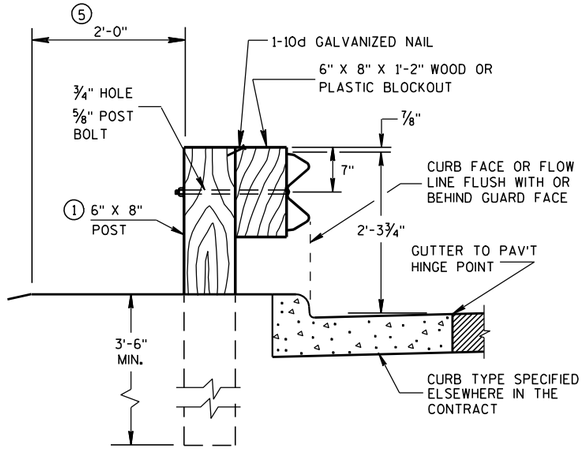
END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



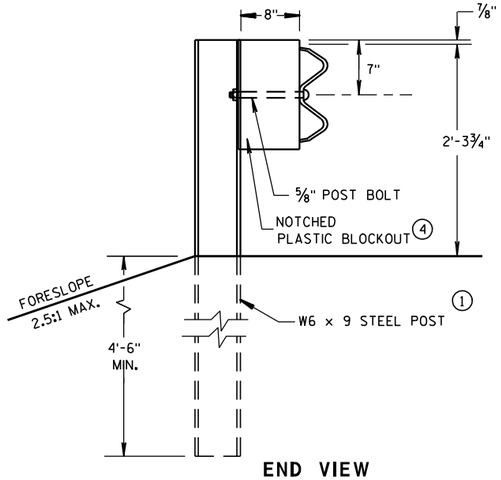
END VIEW
STEEL POST & NOTCHED
PLASTIC BLOCKOUT ALTERNATIVE
STANDARD INSTALLATION



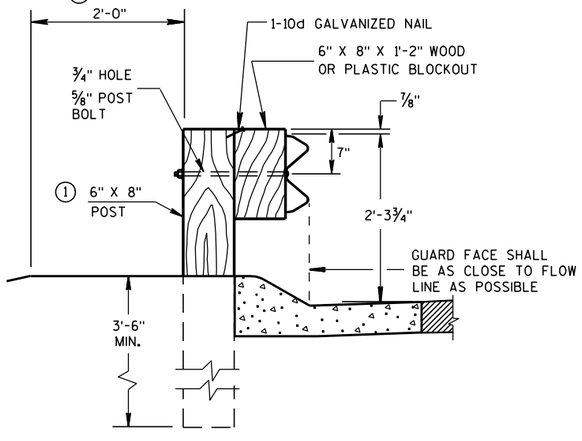
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (6)



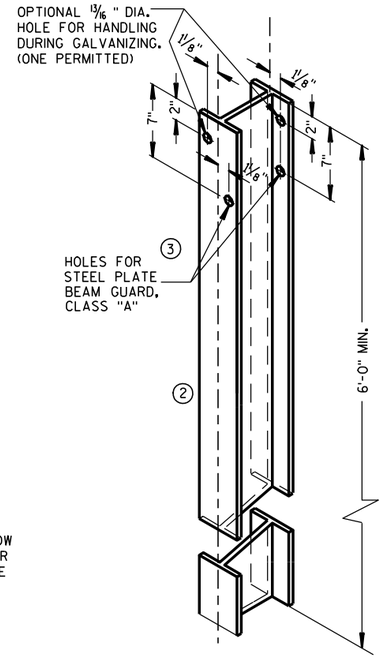
END VIEW
LOCATED ALONG A CURBED ROADWAY



END VIEW
LONGER POST AT HALF
POST SPACING W BEAM
(LHW)

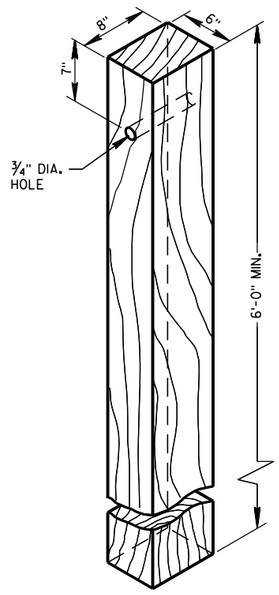


END VIEW
LOCATED ALONG A
MOUNTABLE CURBED ROADWAY

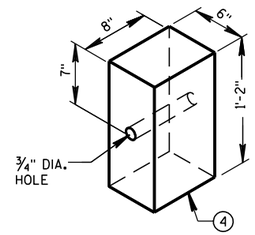


STEEL POST &
HOLE PUNCHING DETAIL
(W6 X 9) (1)

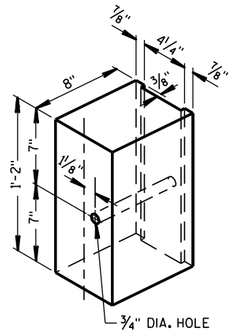
ALL HOLES 13/16" DIAMETER EXCEPT AS NOTED



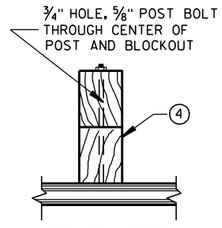
WOOD POST
(6"X8") NOMINAL



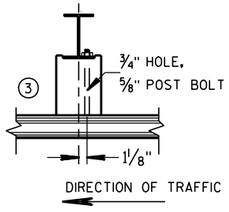
WOOD OR PLASTIC
BLOCKOUT FOR
WOOD POSTS



TYPICAL NOTCHED (1)
PLASTIC BLOCKOUT
FOR STEEL POSTS



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



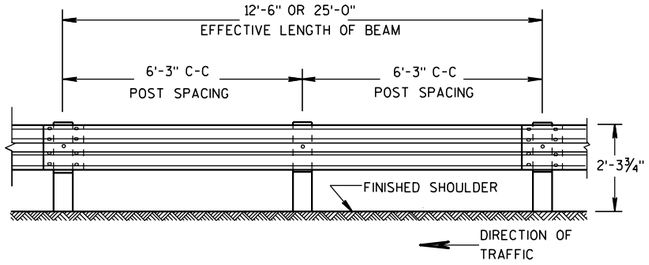
PLAN VIEW
STEEL POST, NOTCHED
PLASTIC BLOCKOUT & BEAM

TYPICAL INSTALLATION OF STEEL PLATE BEAM GUARD

STEEL PLATE BEAM GUARD,
CLASS "A"
INSTALLATION & ELEMENTS

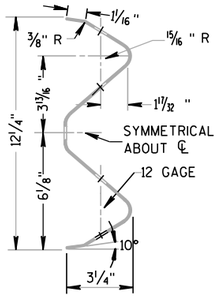
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
S.D.D. 14 B 15-7a

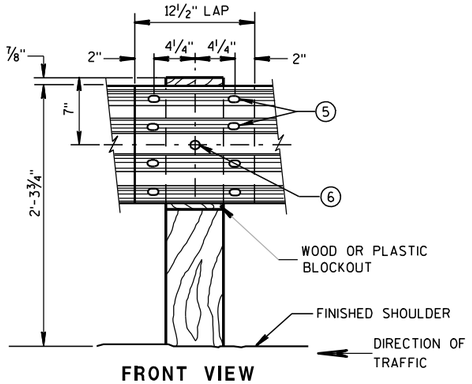


FRONT VIEW

POST SPACING STANDARD INSTALLATION



SECTION THRU W BEAM

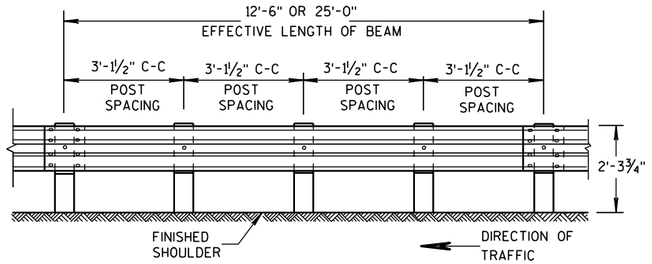


FRONT VIEW

BEAM SPLICE AT WOOD POST AND POST MOUNTING DETAIL

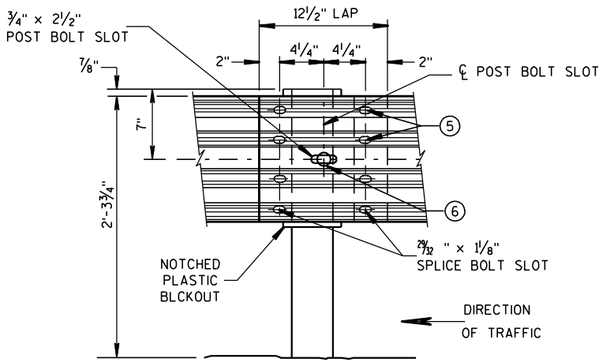
GENERAL NOTES

1. PROVIDE TYPE "H" SILVER REFLECTIVE SHEETING ON ALL REFLECTORS EXCEPT THOSE LOCATED ALONG THE LEFT EDGE OF ONE-WAY ROADWAYS, WHICH SHALL BE PROVIDED WITH TYPE "H" YELLOW REFLECTIVE SHEETING.
2. DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.
3. REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.
4. PROVIDE AN ANGLE OF BEND OF 90° ± 1° FOR TWO-SIDED REFLECTORS.
5. 8 -⅝" ϕ X 2 " BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.
6. ⅝" ϕ X 1'-6" BUTTON HEAD BOLT AND AND RECESS NUT WITH ROUND WASHER UNDER NUT.



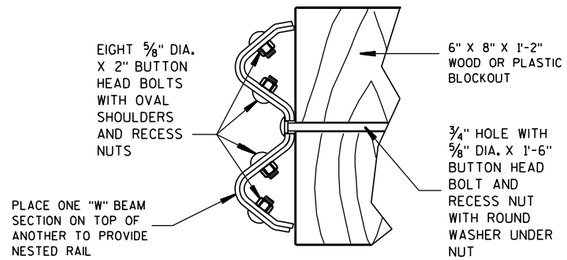
FRONT VIEW

POST SPACING FOR LONGER POST AT HALF POST SPACING W BEAM (LHW)



FRONT VIEW

BEAM SPLICE AT STEEL POST



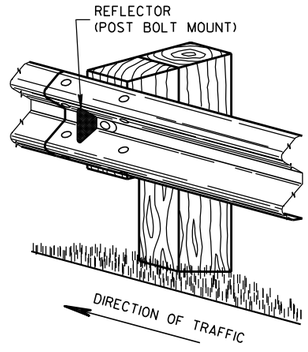
NESTED W BEAM (NW)

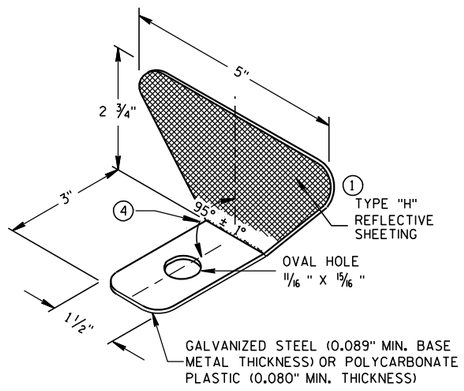
USE ALL OTHER STANDARD BEAM GUARD DETAILS FOR CONSTRUCTING NESTED W BEAM (NW)

TYPICAL SPLICING DETAILS OF STEEL PLATE BEAM GUARD

REFLECTOR SPACING (2)

	BEAM GUARD LENGTH	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY TRAFFIC	< 200' > 200'	50' C-C 100' C-C	1 1	3
TWO WAY TRAFFIC	< 200' > 200'	25' C-C 50' C-C	1 (3) 1	6
TWO WAY TRAFFIC	< 200' > 200'	50' C-C 100' C-C	2 2 (4)	3





ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION (1)

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

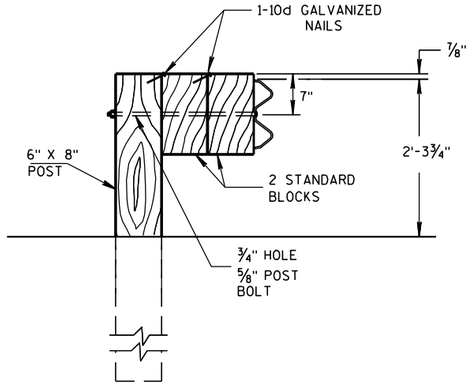
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 14 B 15-7b

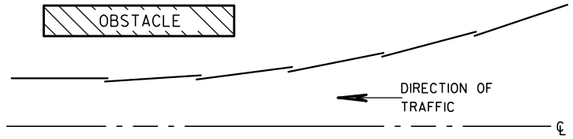
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S.D.D. 14 B 15-7b

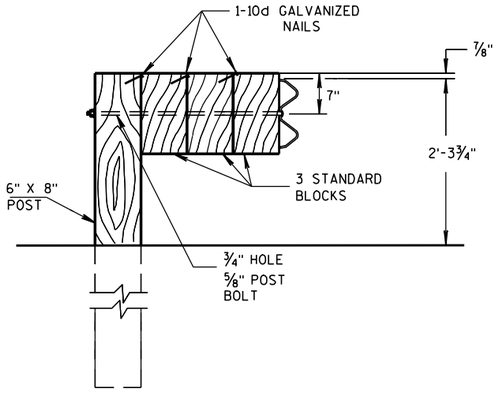


DETAIL FOR DOUBLE BLOCKS

THE NUMBER OF DOUBLE BLOCK POSTS WITHIN A BARRIER RUN IS UNLIMITED

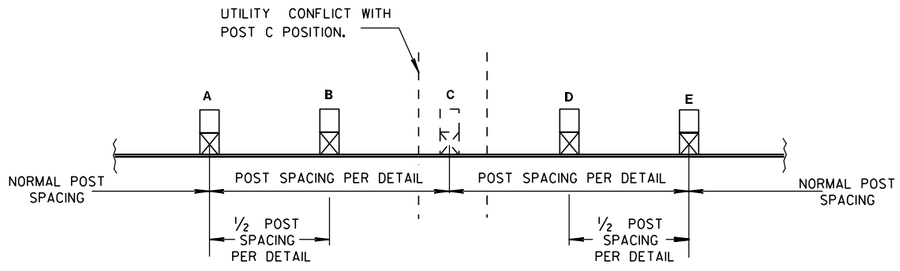


PLAN VIEW
BEAM LAPPING DETAIL



DETAIL FOR TRIPLE BLOCKS

TRIPLE BLOCK DETAIL IS LIMITED TO ONE LOCATION WITHIN A BEAM GUARD RUN.



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION

NOTES: USE DOUBLE OR TRIPLE BLOCKS WHEN UNDERGROUND OBSTACLES PREVENT THE POST FROM BEING INSTALLED.

DO NOT USE EXTRA BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/23/11	/S/ Jerry H. Zogg	
DATE	ROADWAY STANDARDS ENGINEER	ENT

FHWA

6
S.D.D. 14 B 15-7c

BILL OF MATERIALS

NOTE NO.	QTY.	DESCRIPTION
①	4	WOOD BREAKAWAY TERMINAL POST: 5½" X 7½" X 3'-9"
②	**	STEEL TUBE: OPTION 1 - QUANITY OF 4 TS 8" X 6" X 0.188", 4'-6" LONG OR OPTION 2 - QUANITY OF 2 TS 8" X 6" X 0.188", 6'-0" AND 2 TS 8" X 6" X 0.188", 4'-6" LONG
③	2	SOIL PLATE: 2'-0" X 1'-6" X ¼" **
④	4	WOOD BREAKAWAY CRT POST: 6" X 8" X 6'-0"
⑤	6	WOOD OFFSET BLOCKS: 6' X 8" X 1'-2"
⑥	1	PIPE SLEEVE: 2" X 5 ½" STANDARD PIPE
⑦	1	BEARING PLATE
⑧	1	BCT CABLE ASSEMBLY
⑨	1	CABLE ANCHOR BOX
⑩	1	STRUT & YOKE
⑪	1	STEEL PLATE BEAM, END PANEL 12 GA. 13'-6½" LONG FOR SKT-350, ET-2000 AND ET-2000 PLUS
⑫	3	STEEL PLATE BEAM: 12 GA. 13'-6½"
⑬	1	ET-2000/ET-2000 PLUS GUARDRAIL EXTRUDER OR SKT-350 IMPACT HEAD: AS FURNISHED BY MANUFACTURER
⑭	1	REFLECTIVE SHEETING TYPE H: 18" X 18"
⑮	1	E.A.T. MARKER POST

GENERAL NOTES

FOLLOW MANUFACTURE'S BOLTING RECOMMENDATIONS. IF NONE ARE AVAILABLE, INSTALL ⅝" ø X 1'-6" BUTTON HEAD BOLTS AT ALL POSTS EXCEPT FOR POST 1.

(A) THE SLOPE IN THE AREA BOUNDED BY THE EXTENDED VEHICLE RUNOUT PATH (EVRP), THE HINGE POINT LINE (HPL),AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED.

(C) THE 13 SLOT FIRST RAIL PANEL MAY BE USED IN LIEU OF THE 3 SLOT RAIL PANEL ON SKT-350 ONLY.

(D) THE TOP OF THE STEEL TUBE ON POSTS 1 THROUGH 4 SHALL NOT BE MORE THAN 3" ABOVE THE FINISH GROUND ELEVATION.

(E) THE CENTER OF THE UPPER 3½" DIAMETER HOLE ON POST 5 THROUGH 8 SHALL BE ¾" ABOVE THE FINISHED GROUND LINE.

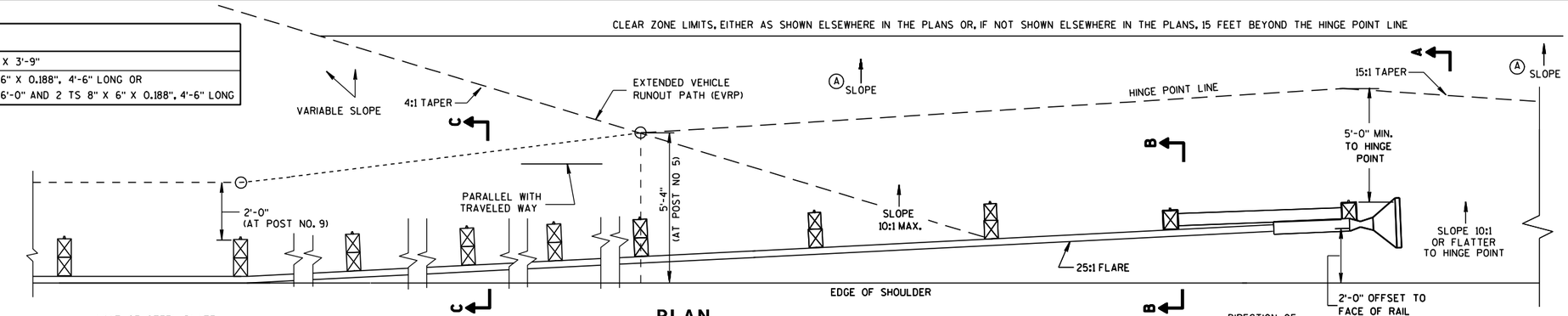
(F) SHEETING IS ATTACHED TO 0.040 ALUMINUM SHEET AND ATTACHED TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF-TAPPING SCREWS. ONE SCREW PER CORNER OF E.A.T.

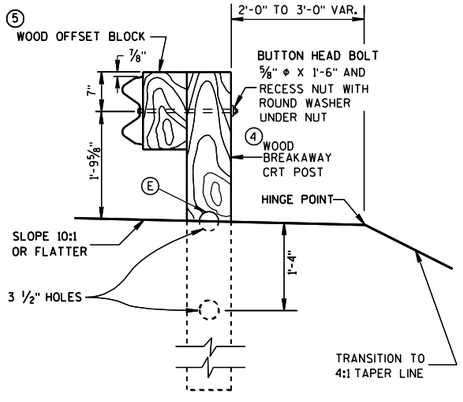
STEEL POSTS SHALL NOT BE ALLOWED FOR USE WITH ENERGY ABSORBING TERMINALS.

DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

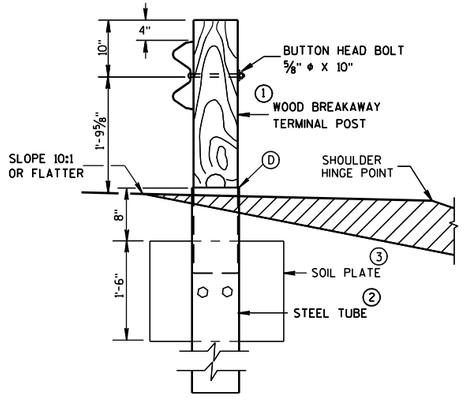
** SDD SHOWS 4 - 54 INCH STEEL TUBES WITH SOIL PLATES INSTALLED ON POST 1 AND POST 2. POST 3 AND 4 DO NOT NEED SOIL PLATES. AN ALTERNATIVE INSTALLATION WOULD CONSIST OF 2 - 72 INCH STEEL TUBES ON POST 1 AND POST 2 AND 54 INCH SOIL TUBES ON POSTS 3 AND 4. THE ALTERNATIVE INSTALLATION DOES NOT REQUIRE SOIL PLATES.





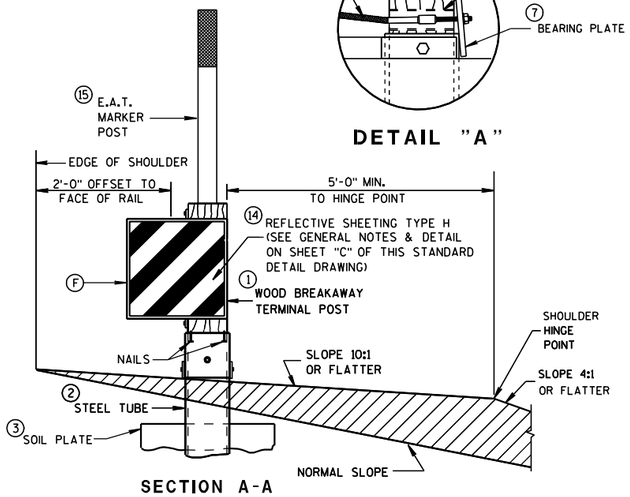
SECTION C-C

TYPICAL AT POST NOS. 6, 8



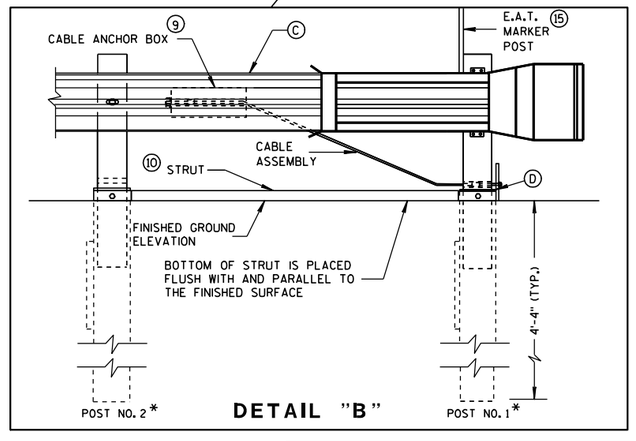
SECTION B-B

TYPICAL AT POST NO. 2*



SECTION A-A

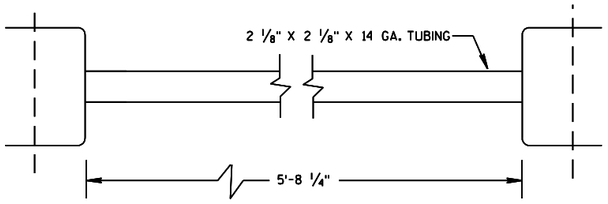
TYPICAL AT POST NO. 1*



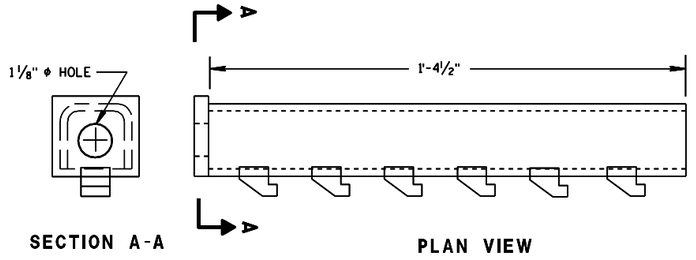
STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

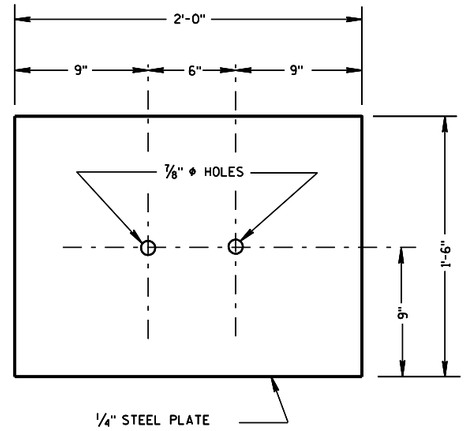
S.D.D. 14 B 24-7a



⑩ STRUT DETAIL (SKT-350)

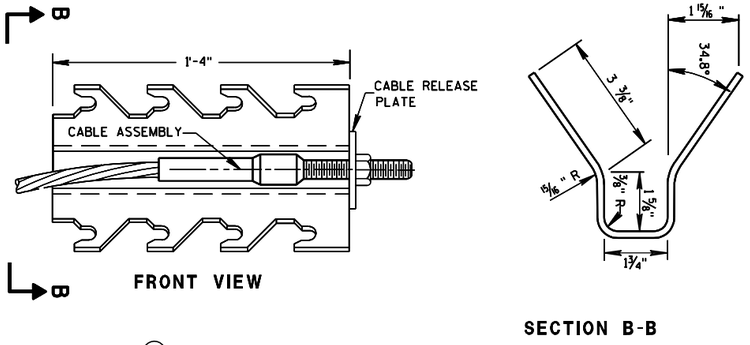


⑨ CABLE ANCHOR BOX (ET-2000/ET-2000 PLUS)



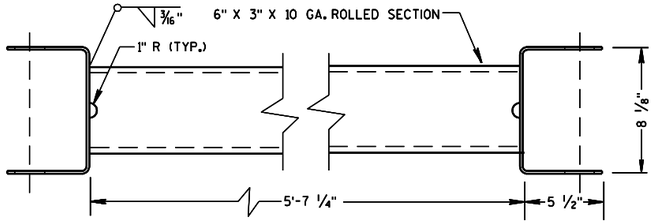
③ SOIL PLATE

(SKT-350, ET-2000/ET-2000 PLUS)



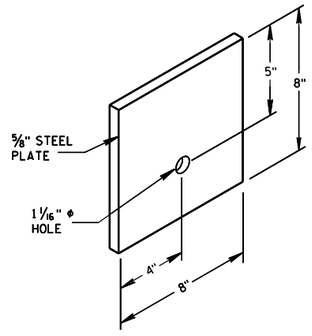
⑨ CABLE ANCHOR BOX (SKT-350)

(SKT-350)



⑩ STRUT DETAIL (ET-2000/ET-2000 PLUS)

(ET-2000/ET-2000 PLUS)



⑦ STEEL BEARING PLATE

(SKT-350, ET-2000/ET-2000 PLUS)

6

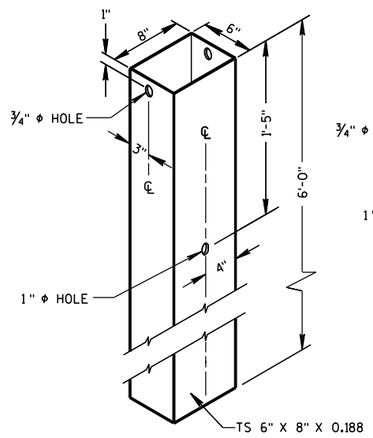
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S.D.D. 14 B 24-7b

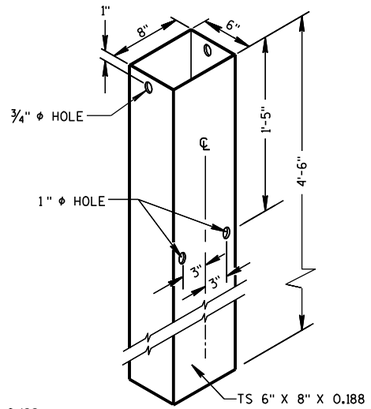
S.D.D. 14 B 24-7b

STEEL PLATE BEAM GUARD
ENERGY ABSORBING TERMINAL

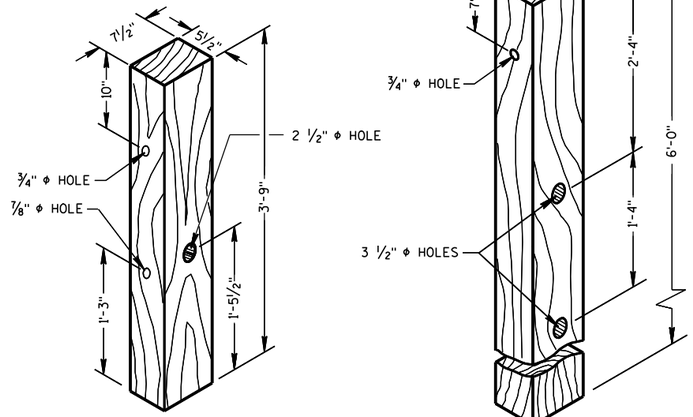
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



② 72" STEEL TUBE
(POSTS NO. 1-4



② 54" STEEL TUBE
(POSTS NO. 1-4



① TERMINAL POST
(POSTS NO. 1-4

④ CRT POST
(POSTS NO'S 5-8

WOOD BREAKAWAY POSTS

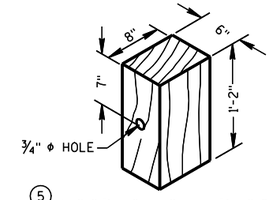
GENERAL NOTES

STEEL PLATE BEAM GUARD, ENERGY ABSORBING TERMINAL SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH, WHICH SHALL INCLUDE HARDWARE, STEEL PLATE BEAM GUARD, POSTS, REFLECTIVE SHEETING AND INSTALLATION AS SHOWN.

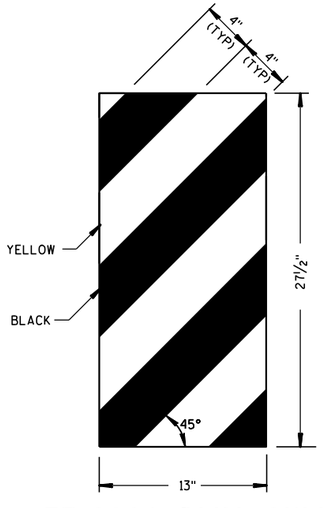
WHEN ROCK IS ENCOUNTERED DURING EXCAVATION, A 12 INCH DIA. POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK MAY BE USED IF APPROVED BY THE ENGINEER. GRANULAR MATERIAL SHALL BE PLACED IN THE BOTTOM OF THE HOLE APPROXIMATELY 2 ½" INCHES DEEP TO PROVIDE DRAINAGE. THE SOIL TUBES SHALL BE FIELD CUT TO LENGTH, PLACED IN THE HOLE AND BACKFILLED WITH ADEQUATELY COMPACTED MATERIAL EXCAVATED FROM THE HOLE.

SEE APPROVED PRODUCTS LIST FOR ACCEPTABLE E. A. T. MARKER POST.

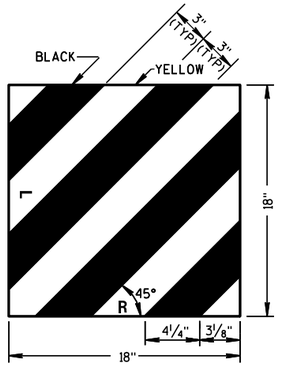
(G) ½" DIA. X 3" LAG BOLT WITH WASHER.



⑤ WOOD OFFSET BLOCK
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2

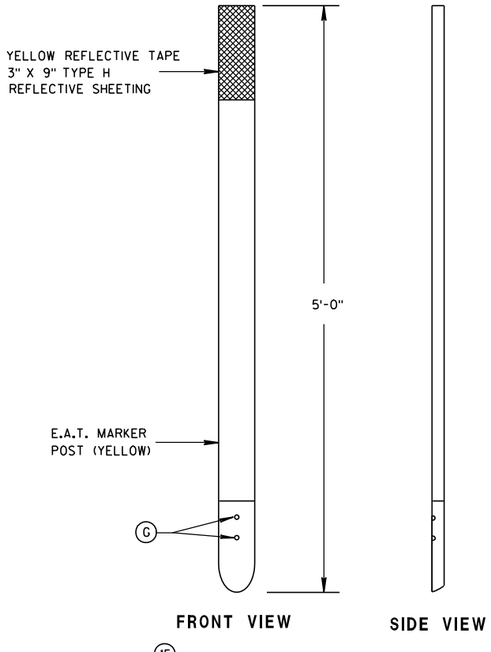


ET-2000 PLUS ONLY

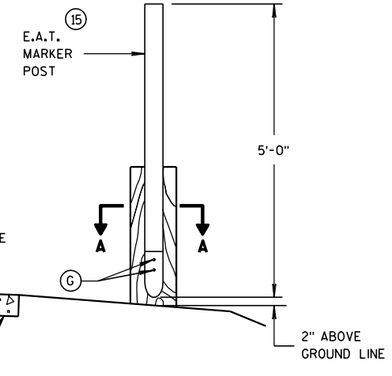


ET-2000 AND SKT-350

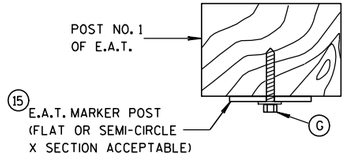
⑭ REFLECTIVE SHEETING DETAILS



⑮ E.A.T. MARKER POST



TYPICAL INSTALLATION OF E.A.T.
MARKER POST BACKSIDE OF POST NO. 1
(E.A.T. AND RAIL REMOVED FOR CLARITY)



SECTION A-A

STEEL PLATE BEAM GUARD
ENERGY ABSORBING TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4-12-10
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

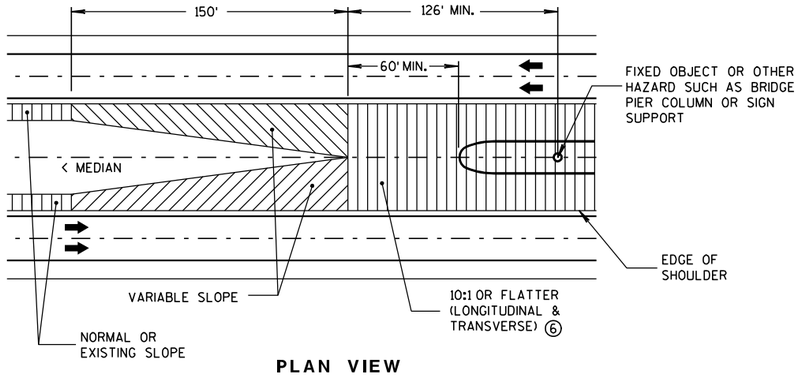
FHWA

6

S.D.D. 14 B 24-7c

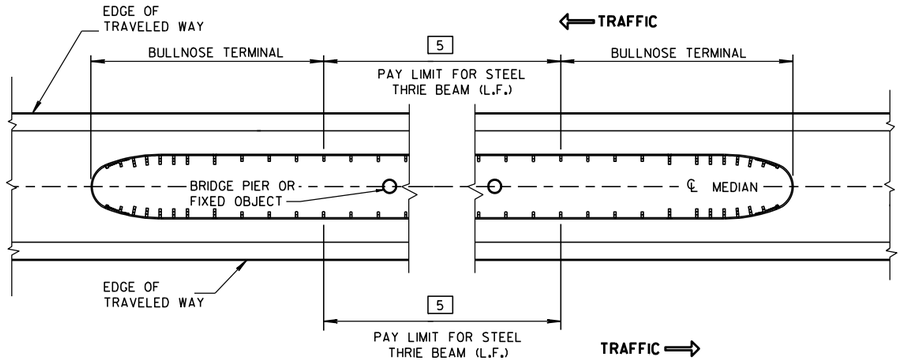
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S.D.D. 14 B 24-7c

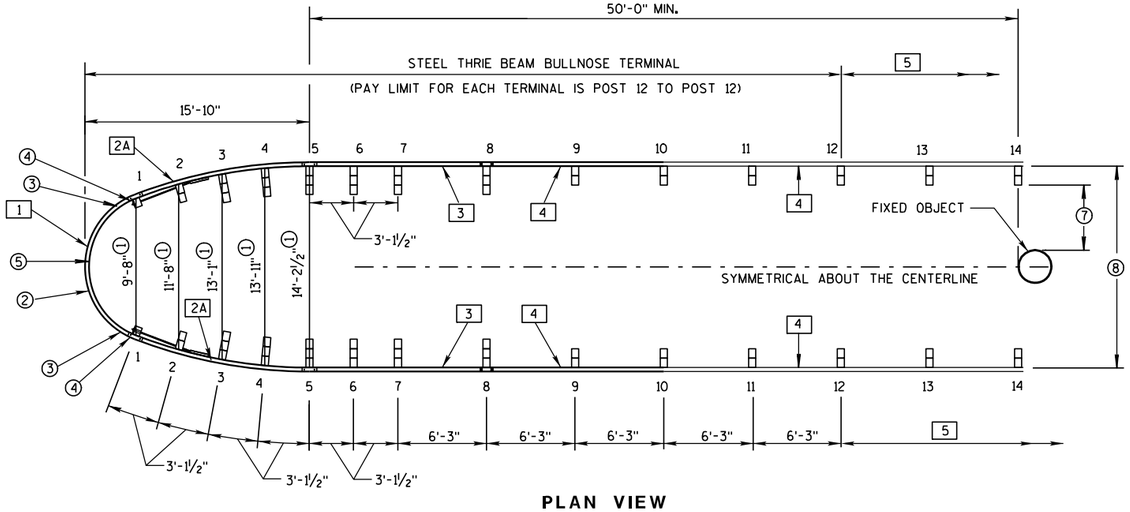


PLAN VIEW

GRADING AT BULLNOSE
(ALL INSTALLATIONS)

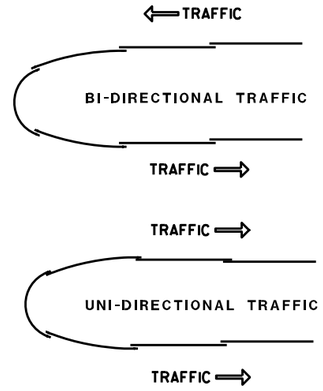


MEDIAN HAZARD PROTECTION PAY LIMITS



PLAN VIEW

TYPICAL BULLNOSE LAYOUT



LAPPING DETAIL
(ALL INSTALLATIONS)

GENERAL NOTES

SEE STANDARD DETAIL DRAWINGS 14 B 26a-e.

PUNCHING, DRILLING, CUTTING OR WELDING IS NOT PERMITTED ON ANY GALVANIZED THRIE BEAM ACCESSORY OR TERMINAL ACCESSORY.

OTHER ANCHOR CABLE ASSEMBLIES HAVING 40,000 LBS. MIN. BREAKING STRENGTH MAY BE USED.

FOR POSTS 2 THROUGH 14, IF POST CANNOT BE INSTALLED AT SPECIFIED LOCATION 1 EXTRA STANDARD WOOD BLOCK MAY BE ADDED.

THE USE OF STEEL POSTS ON THE BULLNOSE IS NOT ALLOWED.

BOLTS AND ALL NECESSARY HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 153.

ALL THRIE BEAM SHALL BE 12-GAUGE.

[1] SLOTTED THRIE BEAM RAIL NO. 1. (POST 1 TO POST 1)

[2A] SLOTTED THRIE BEAM RAIL NO. 2A. (POST 1 TO POST 5)

[3] SLOTTED THRIE BEAM RAIL NO. 3. (POST 5 TO POST 8)

[4] UNBENT STANDARD THRIE-BEAM RAIL NO.4. (POST 8 TO POST 10 & POST 10 TO POST 12)

[5] BEYOND POST 12: CONSTRUCT STEEL THRIE BEAM - USE UNBENT STANDARD THRIE BEAM RAIL NO. 5.

① DIMENSIONS ARE FROM BACK OF RAIL TO BACK OF RAIL WHERE RAIL IS BOLTED TO POST OR BLOCK.

② U-BOLT CABLE CLIPS (3 PER CABLE) SPACED OUT ON NOSE, TO HOLD CABLE TO BACKSIDE OF THE RAIL.

③ NOSE CABLE W/SWAGGED END BUTTONS.

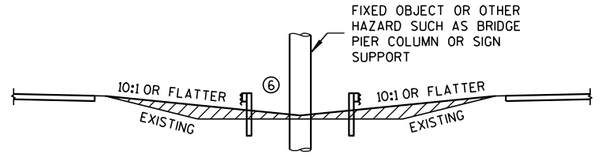
④ NOSE CABLE ANCHOR PLATE (BACKSIDE OF SPLICE).

⑤ THE SLACK IN THE NOSE CABLES SHALL BE EVENLY DISTRIBUTED BETWEEN THE CABLE CLIP FASTENERS AND POST NO. 1 ON EITHER SIDE OF THE NOSE.

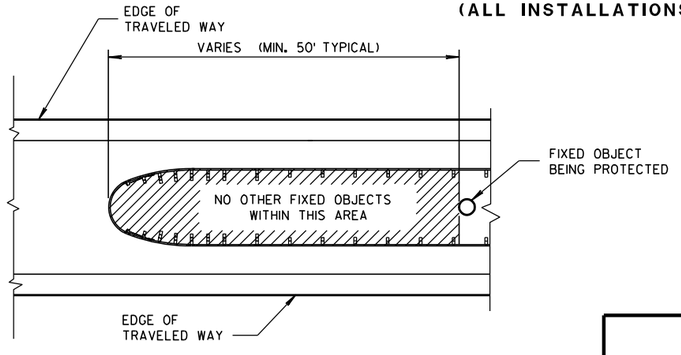
⑥ PROVIDE SUITABLE DRAINAGE WHEN MEDIAN GRADING IMPEDES NORMAL FLOW.

⑦ 2'-6" MINIMUM LATERAL DISTANCE BETWEEN BACK OF POST AND FACE OF FIXED OBJECT.

⑧ MAXIMUM WIDTH OF SYSTEM IS 14'-2½" MEASURED FROM BACK OF RAIL TO BACK OF RAIL WHERE RAIL IS BOLTED TO A POST OR BLOCK.



MEDIAN GRADING SECTION
(ALL INSTALLATIONS)



HAZARD FREE AREA INSIDE BULLNOSE

STEEL THRIE BEAM
BULLNOSE TERMINAL

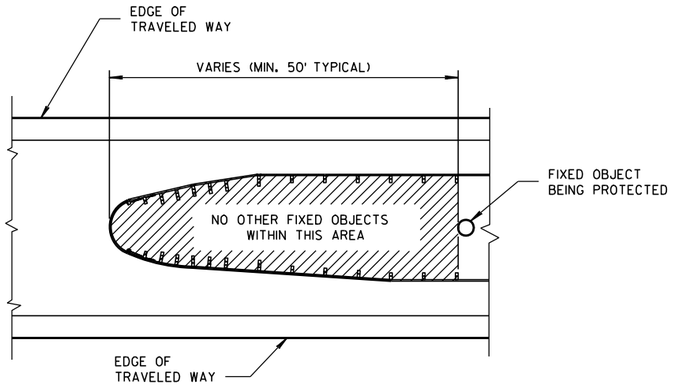
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 14 B 26-2a

6

S.D.D. 14 B 26-2a



HAZARD FREE AREA INSIDE BULLNOSE

GENERAL NOTES

SEE STANDARD DETAIL DRAWINGS 14 B 26a-e.

FOR POSTS 2 THROUGH 14, IF POST CANNOT BE INSTALLED AT SPECIFIED LOCATION 1 EXTRA STANDARD WOOD BLOCK MAY BE ADDED.

[1] SLOTTED THRIE BEAM RAIL NO. 1. (POST 1 TO POST 1)

[2A] SLOTTED THRIE BEAM RAIL NO. 2A, (POST 1 TO POST 5)

[2B] SLOTTED THRIE BEAM RAIL NO. 2B, (POST 1 TO POST 5)

[3] SLOTTED THRIE BEAM RAIL NO. 3. (POST 5 TO POST 8)

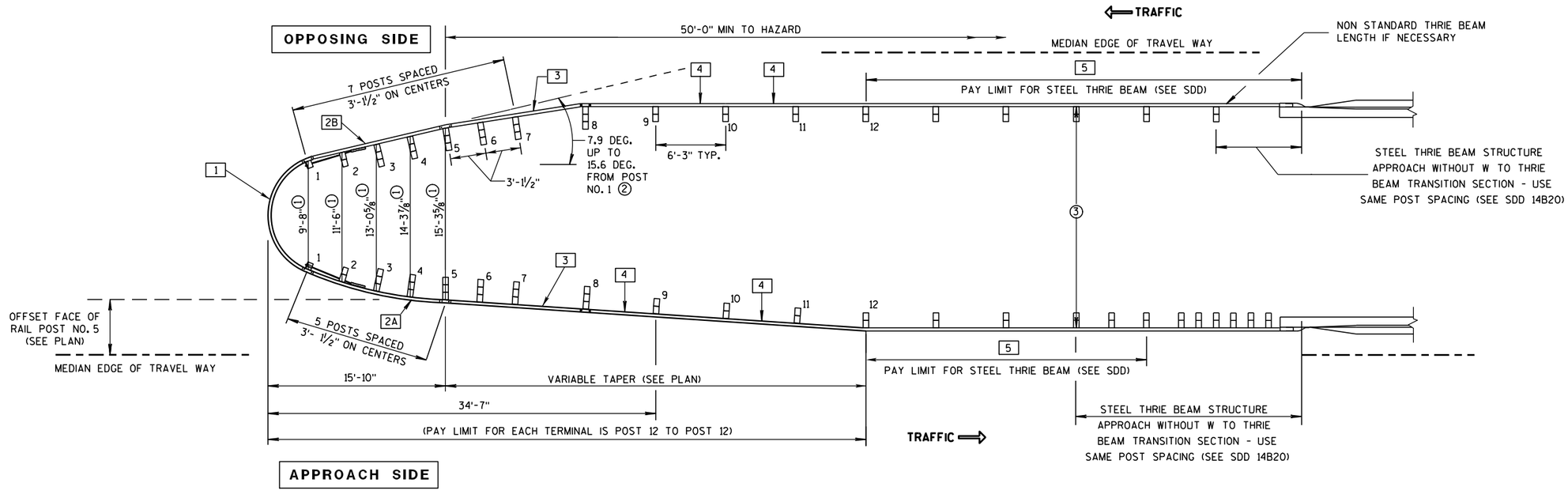
[4] UNBENT STANDARD THRIE-BEAM RAIL NO. 4, (POST 8 TO POST 10 & POST 10 TO POST 12)

[5] BEYOND POST 12: CONSTRUCT STEEL THRIE BEAM - USE UNBENT STANDARD THRIE BEAM RAIL NO. 5.

① DIMENSIONS ARE FROM BACK OF RAIL TO BACK OF RAIL WHERE RAIL IS BOLTED TO POST.

② TAPER BEGINNING AT POST NO. 1 MUST CONTINUE TO POST NO. 5. PAST POST NO. 5 TAPER MAY END OR BE EXTENDED UP TO 15.6 DEGREES TO FIT VARIABLE MEDIAN WIDTHS. (SEE PLAN)

③ FOR MEDIANS WIDER THAN 14'-2½" MEASURED FROM BACK OF RAIL TO BACK OF RAIL WHERE RAIL IS BOLTED TO A POST OR BLOCK.



PLAN VIEW

WIDENED BULLNOSE DESIGN

(INSTALLATION AT TWIN BRIDGES WITH BI-DIRECTIONAL TRAFFIC SHOWN)

STEEL THRIE BEAM
BULLNOSE TERMINAL

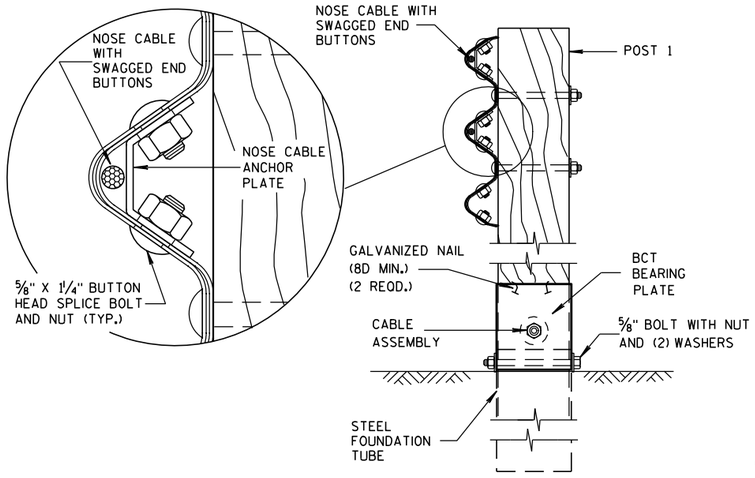
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 14 B 26-2b

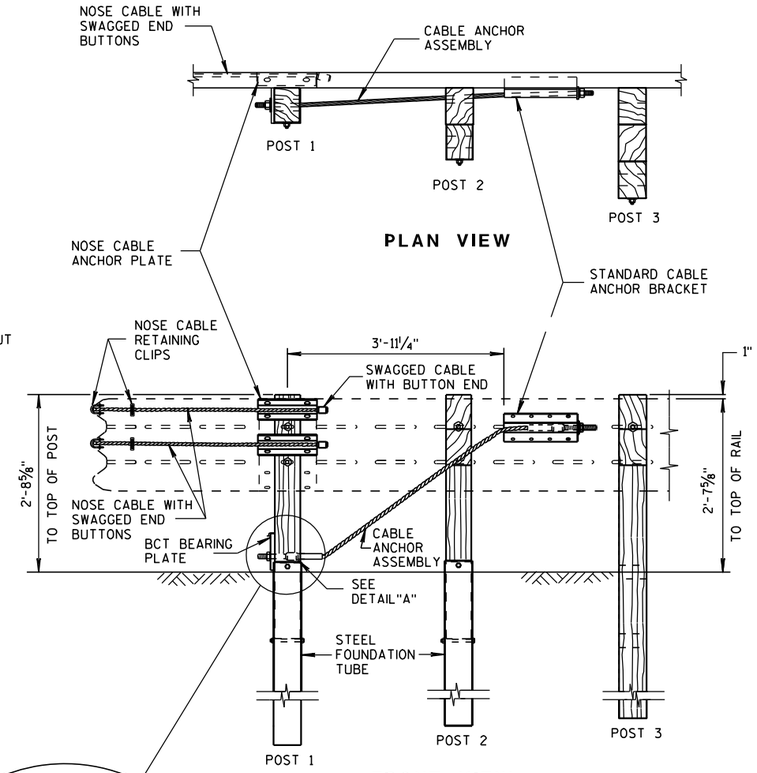
6

S.D.D. 14 B 26-2b



SIDE VIEW

NOSE CABLE ASSEMBLY AT POST NO. 1



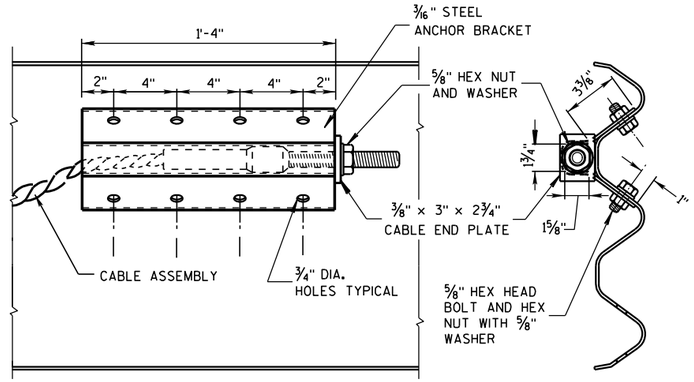
PLAN VIEW

FRONT VIEW

NOSE CABLE ANCHOR AND STANDARD BRACKET ASSEMBLY

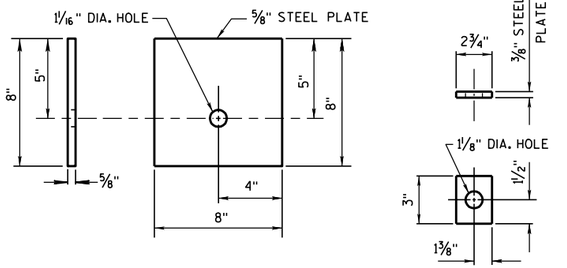
GENERAL NOTES

SEE STANDARD DETAIL DRAWINGS 14 B 26a-e.



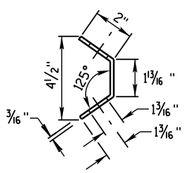
FRONT VIEW END VIEW

DETAILS OF CABLE ANCHOR BRACKET



BCT BEARING PLATE

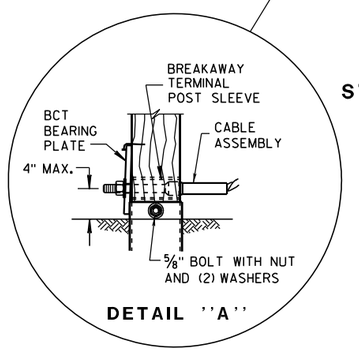
CABLE END PLATE



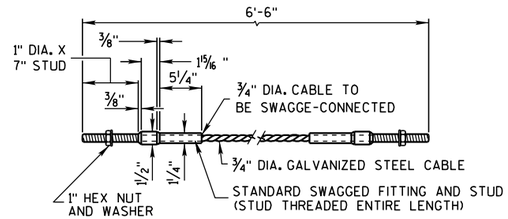
ELEVATION VIEW END VIEW

NOSE CABLE ANCHOR PLATE

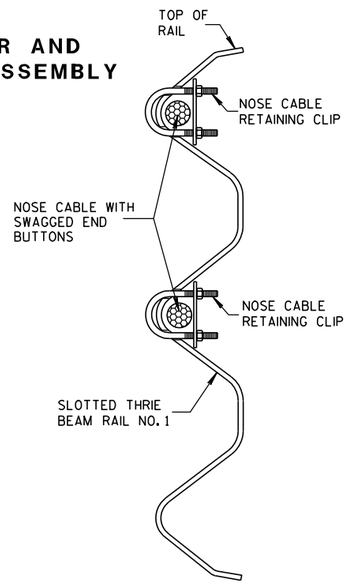
NOTE: 12 1/2" x 5 13/16" x 3/16" STEEL PLATE (A306)



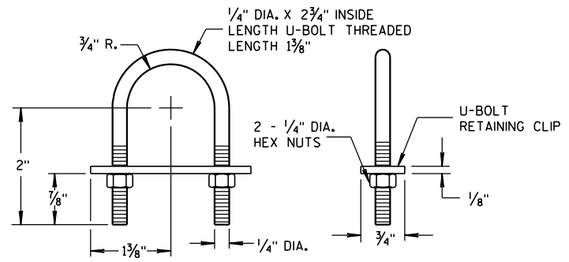
DETAIL ''A''



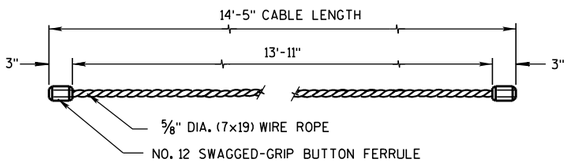
DETAILS OF CABLE ANCHOR ASSEMBLY



PLACEMENT OF NOSE CABLE RETAINING CLIP



NOSE CABLE RETAINING CLIP



NOSE CABLE WITH SWAGGED END BUTTONS

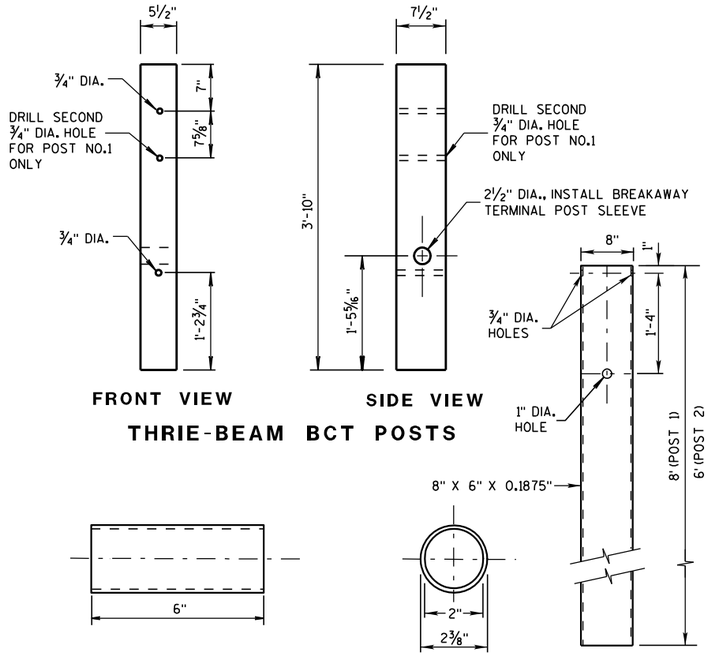
TO PULL OFF SWAGGED GRIP BUTTON FERRULE FROM WIRE ROPE REQUIRES A FORCE EQUAL TO 98% OF THE WIRE ROPE'S BREAKING STRENGHT.

STEEL THRIE BEAM BULLNOSE TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 14 B 26-2c

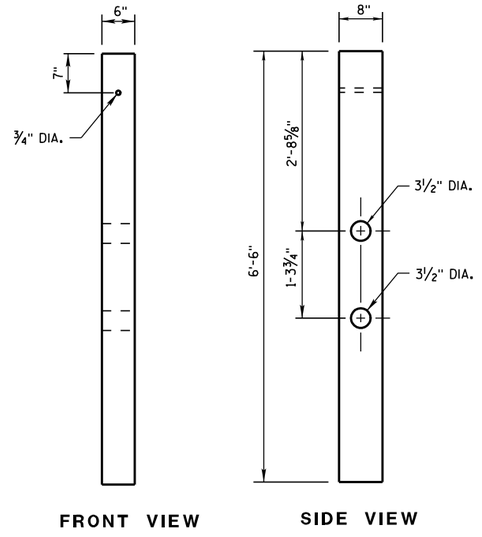


FRONT VIEW SIDE VIEW

THRIE-BEAM BCT POSTS

BREAKAWAY TERMINAL POST SLEEVE

STEEL FOUNDATION TUBE

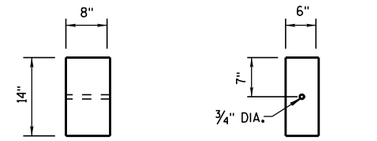


FRONT VIEW SIDE VIEW

THRIE-BEAM CRT WOOD POSTS

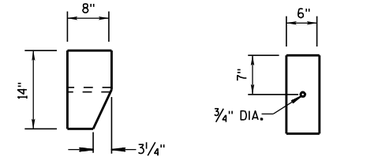
GENERAL NOTES

SEE STANDARD DETAIL DRAWINGS 14 B 26a-e.



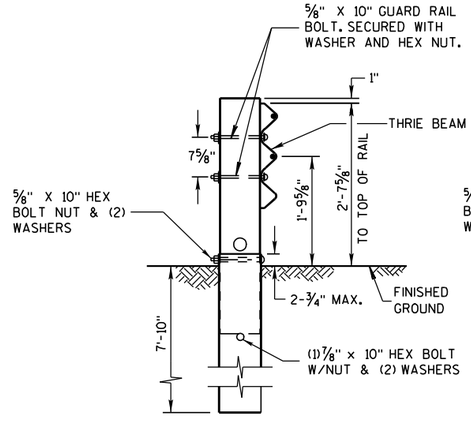
SIDE VIEW FRONT VIEW

STANDARD WOOD BLOCK



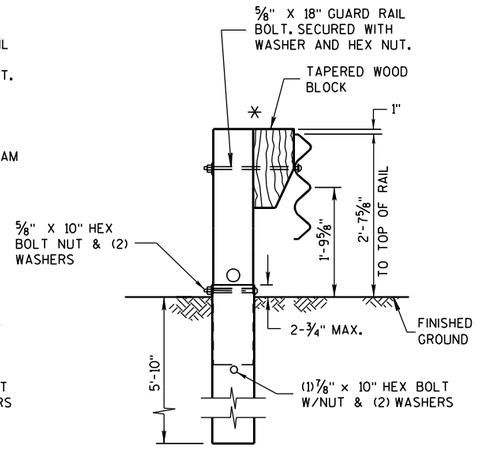
SIDE VIEW FRONT VIEW

TAPERED WOOD BLOCK



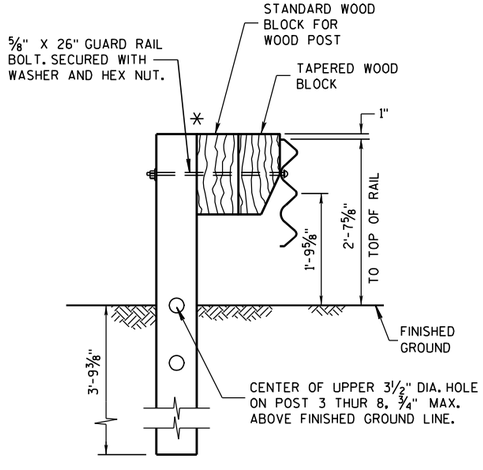
THRIE-BEAM BCT POST
(WITH 8'-0" FOUNDATION TUBE)

POST NO. 1



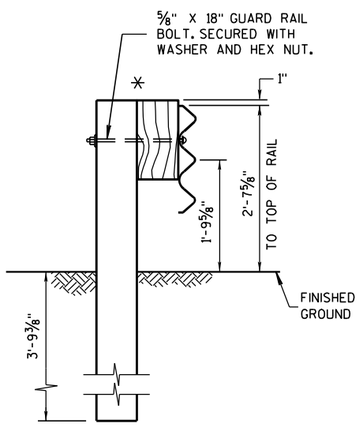
THRIE-BEAM BCT POST
(WITH 6'-0" FOUNDATION TUBE AND 1'-2" TAPERED BLOCK)

POST NO. 2



THRIE-BEAM CRT POST
(6'-6" LONG POST WITH 1'-2" BLOCK AND 1'-2" TAPERED BLOCK)

POST NO. 3,4,5,6,7, & 8



THRIE-BEAM POST
(6'-6" LONG POST WITH 1'-2" BLOCK)

POST NO. 9,10,11,& 12
(ALSO USE FOR STEEL THRIE BEAM BEYOND POST 12)

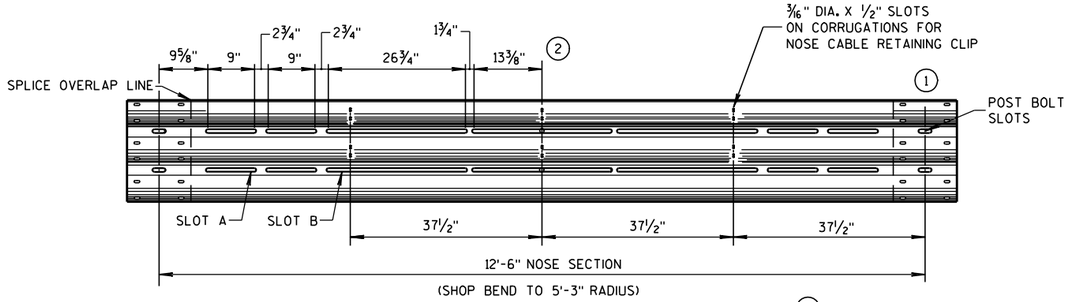
* IF NEEDED DUE TO AN UNDERGROUND OBSTACLE ADD 1 ADDITIONAL STANDARD BLOCKOUT TO POST.

STEEL THRIE BEAM BULLNOSE TERMINAL

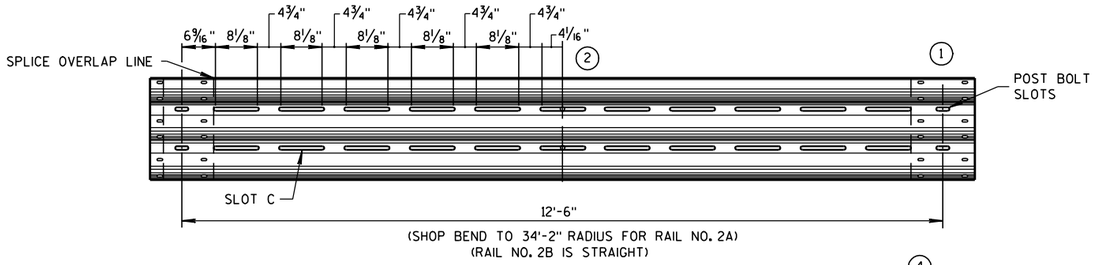
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

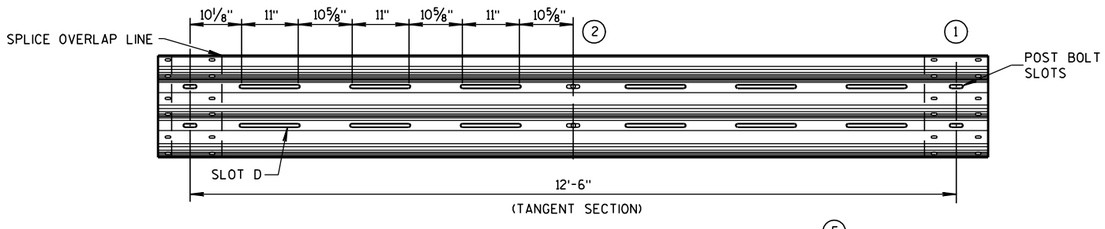
S.D.D. 14 B 26-2d



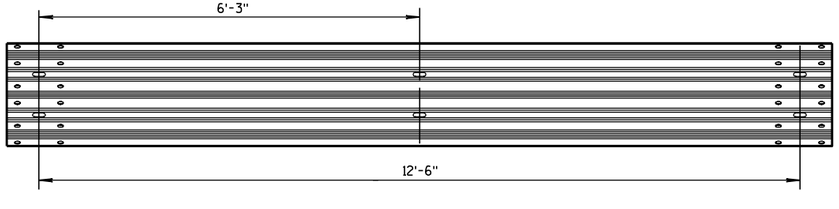
SLOTTED THRIE BEAM RAIL NO. 1 (3)



SLOTTED THRIE BEAM RAILS NO. 2A AND NO. 2B (4)



SLOTTED THRIE BEAM RAIL NO. 3 (5)



UNBENT STANDARD THRIE BEAM RAIL NO. 4 AND NO. 5

GENERAL NOTES

SEE STANADRD DETAIL DRAWINGS 14 B 26a-e.

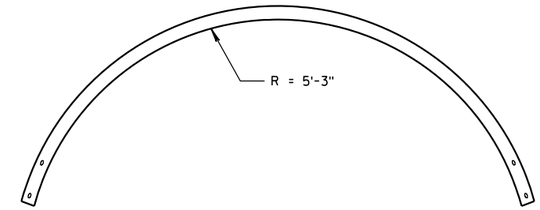
(1) SLOTTED THRIE BEAM RAIL DIMENSIONS SHOWN ARE BEFORE BENDING TO THE RADIUS SHOWN.

(2) SLOT SIZE AND SPACING SYMMETRIC.

(3) SLOTTED THRIE BEAM RAIL NO. 1, 12'-6", SHOP BEND TO R=5'-3".

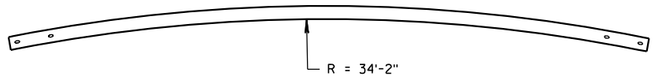
(4) SLOTTED THRIE BEAM RAIL NO. 2A, 12'-6", SHOP BEND TO R=34'-2".
SLOTTED THRIE BEAM RAIL NO. 2B, 12'-6", RAIL IS STRAIGHT.

(5) SLOTTED THRIE BEAM RAIL NO. 3, 12'-6", TANGENT.



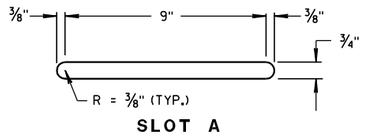
PLAN VIEW

SLOTTED THRIE BEAM RAIL NO. 1

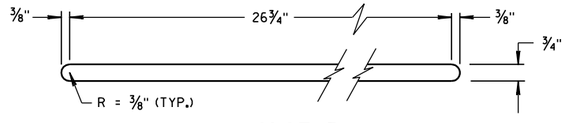


PLAN VIEW

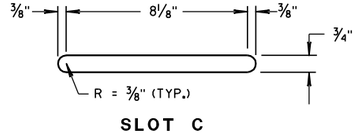
SLOTTED THRIE BEAM RAIL NO. 2A



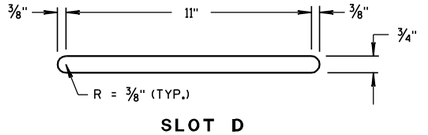
SLOT A



SLOT B



SLOT C



SLOT D

SLOT DETAILS

STEEL THRIE BEAM
BULLNOSE TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

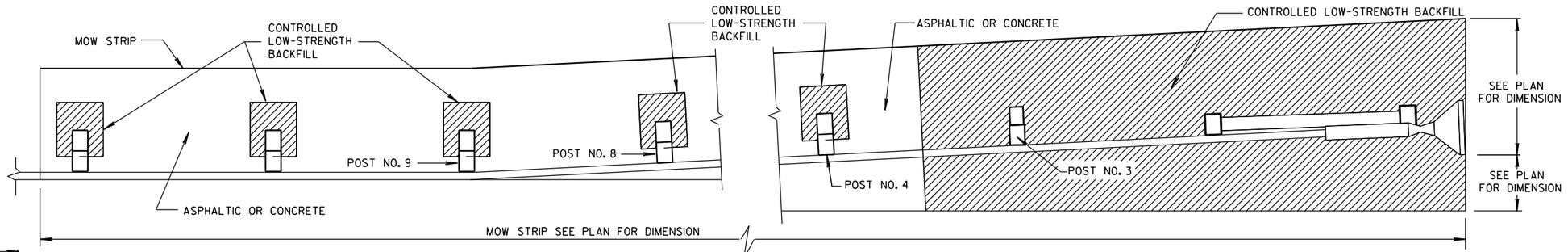
APPROVED
9-16-2010
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

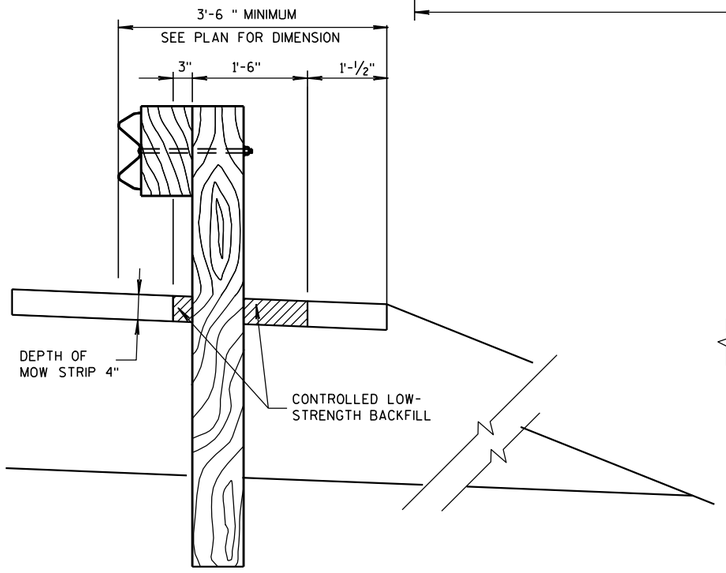
6

S.D.D. 14 B 26-2e

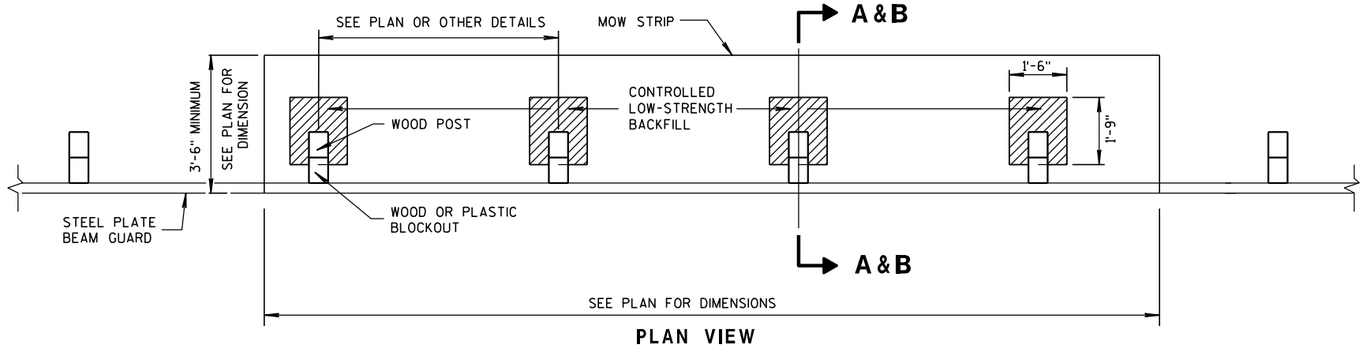


PLAN VIEW

MOW STRIP FOR STEEL PLATE BEAM GUARD ENERGY ABORBING TERMINAL

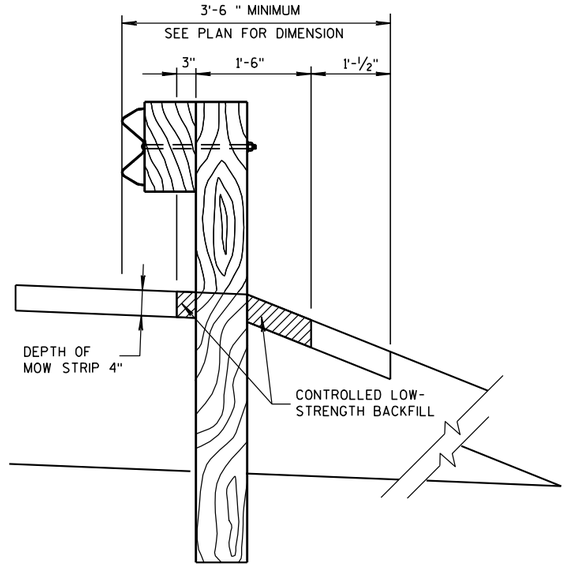


SECTION A-A

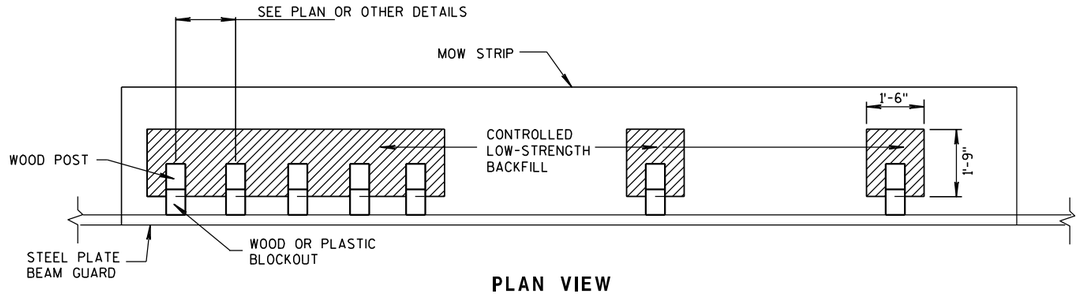


PLAN VIEW

MOW STRIP FOR TYPICAL BLOCKOUT LAYOUT

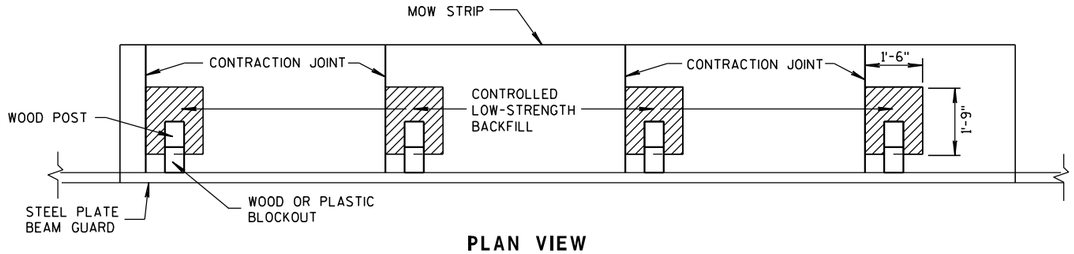


SECTION B-B



PLAN VIEW

MOW STRIP FOR TIGHT SPACING LAYOUT



PLAN VIEW

JOINT PLACEMENT FOR CONCRETE MOW STRIP

GUARDRAIL MOW STRIP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/23/11
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS 1470
ENGINEER
FHWA

6

S.D.D. 14 B 28-1

6

S.D.D. 14 B 28-1

GENERAL NOTES

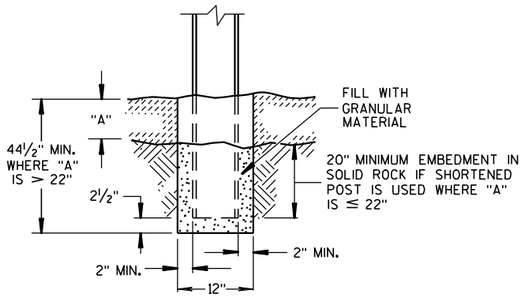
(1) WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

(2) USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

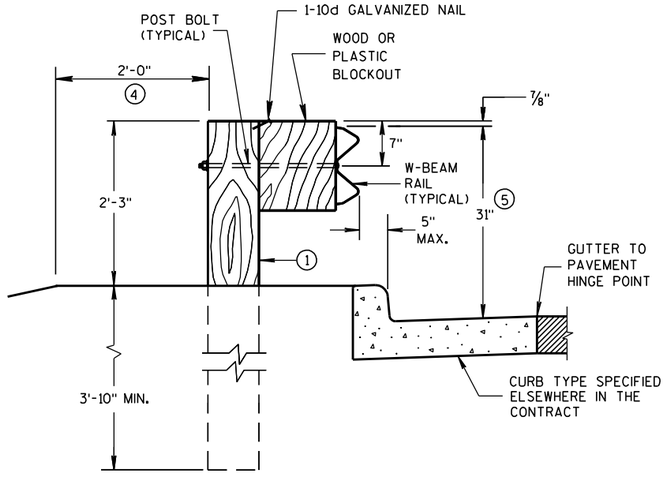
(3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2½ INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

(4) WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

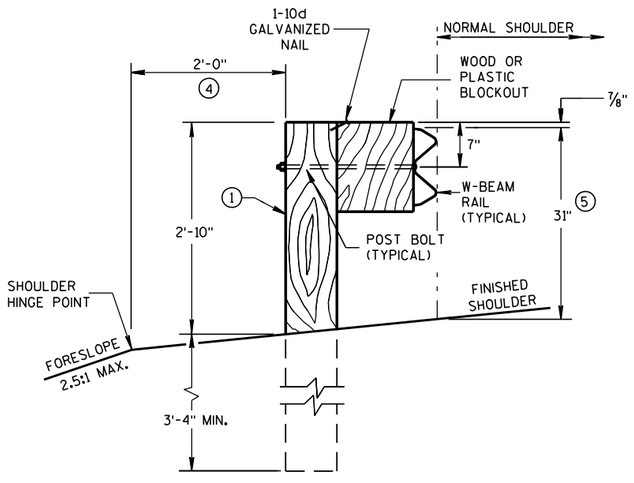
(5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27¾" TO 32".



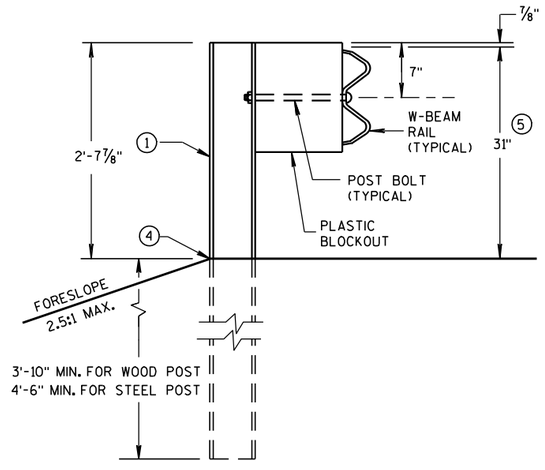
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (3)



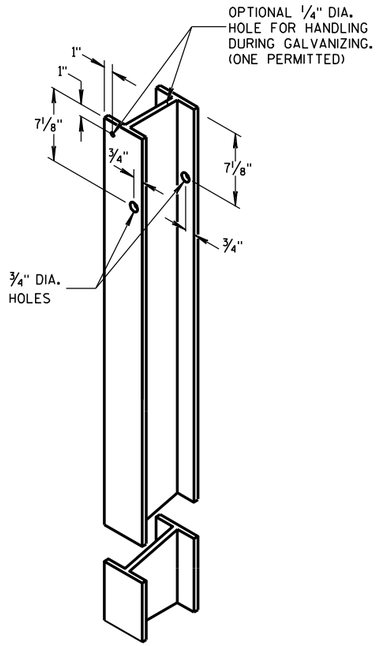
END VIEW
LOCATED ALONG A CURBED ROADWAY



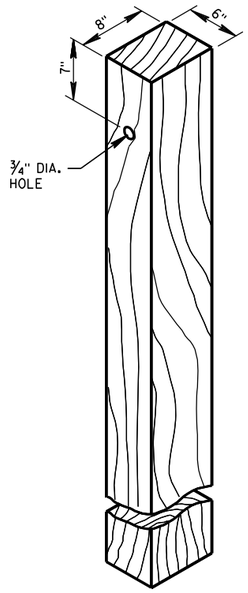
END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



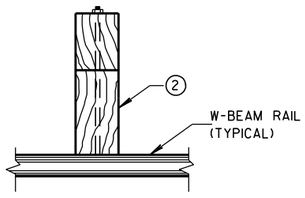
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



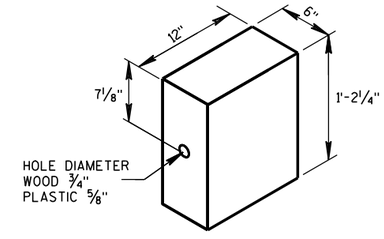
STEEL POST &
HOLE PUNCHING DETAIL
(w6X9) (1)



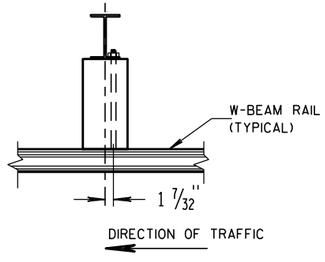
WOOD POST
(6" X 8") NOMINAL (1)



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



WOOD OR
PLASTIC BLOCKOUT (2)

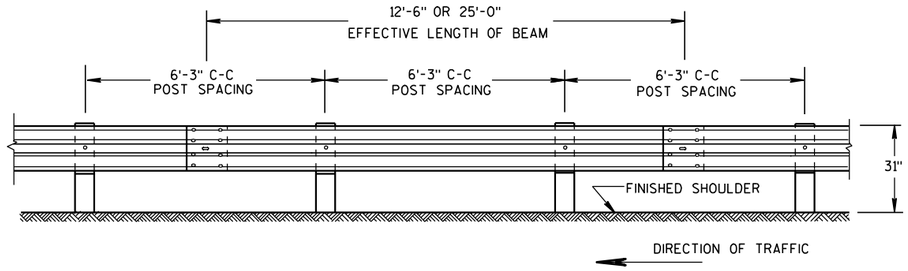


PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

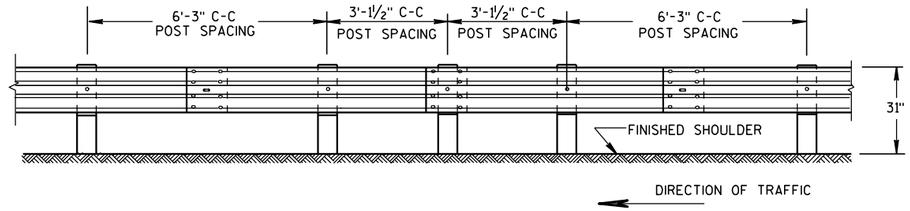
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
S.D.D. 14 B 42-2a



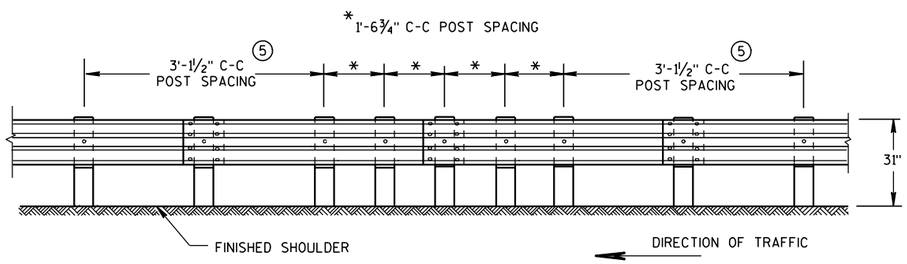
FRONT VIEW

POST SPACING STANDARD INSTALLATION



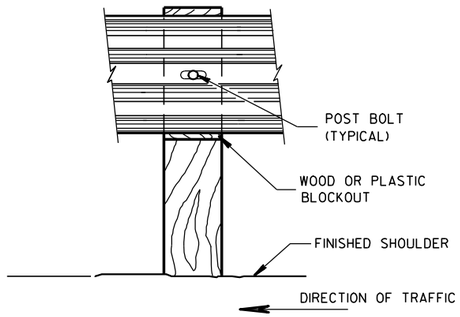
FRONT VIEW

HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)

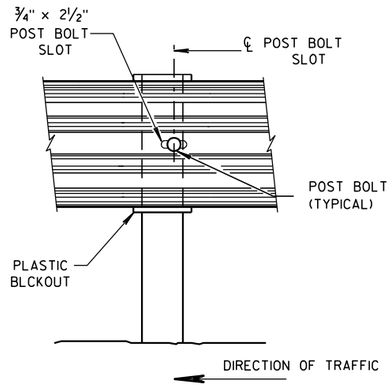


FRONT VIEW

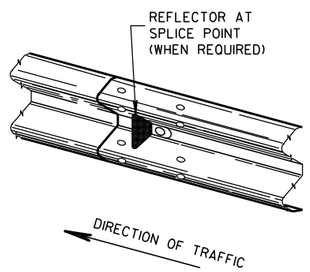
QUARTER POST SPACING (QS)

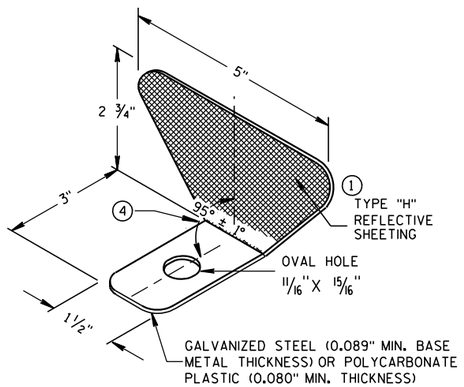


FRONT VIEW AT WOOD POST

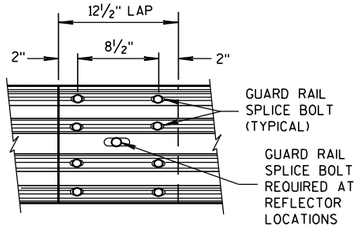


FRONT VIEW AT STEEL POST

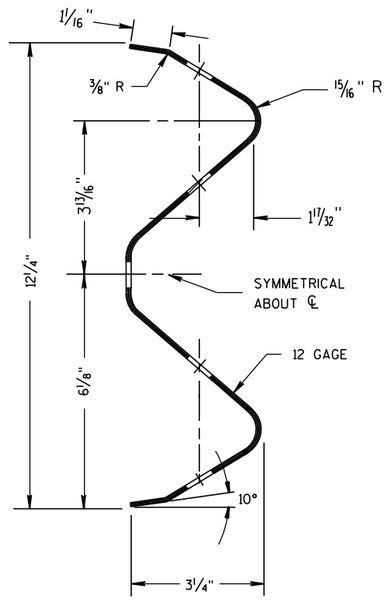




ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION ①



FRONT VIEW
MID-SPAN BEAM SPLICE



SECTION THRU W-BEAM RAIL

GENERAL NOTES

① PROVIDE TYPE "H" SILVER REFLECTIVE SHEETING ON ALL REFLECTORS EXCEPT THOSE LOCATED ALONG THE LEFT EDGE OF ONE-WAY ROADWAYS, WHICH SHALL BE PROVIDED WITH TYPE "H" YELLOW REFLECTIVE SHEETING.

② DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL. RAIL SPLICE LOCATIONS ARE THE ONLY ACCEPTABLE LOCATIONS FOR REFLECTORS.

③ REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.

④ PROVIDE AN ANGLE OF BEND OF 90° ± 1° FOR TWO-SIDED REFLECTORS.

⑤ 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

POST BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND ⅝" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

GUARD RAIL SPLICE BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.

REFLECTOR SPACING ②

	BEAM GUARD LENGTH	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY TRAFFIC	< 200' > 200'	50' C-C 100' C-C	1 1	3
TWO WAY TRAFFIC	< 200' > 200'	25' C-C 50' C-C	1 1 ③	6
TWO WAY TRAFFIC	< 200' > 200'	50' C-C 100' C-C	2 2 ④	3

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

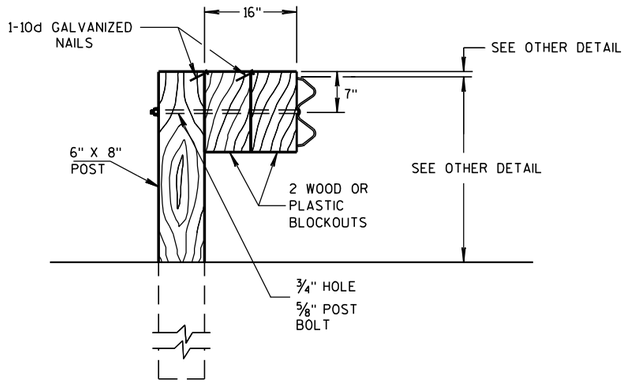
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 14 B 42-2b

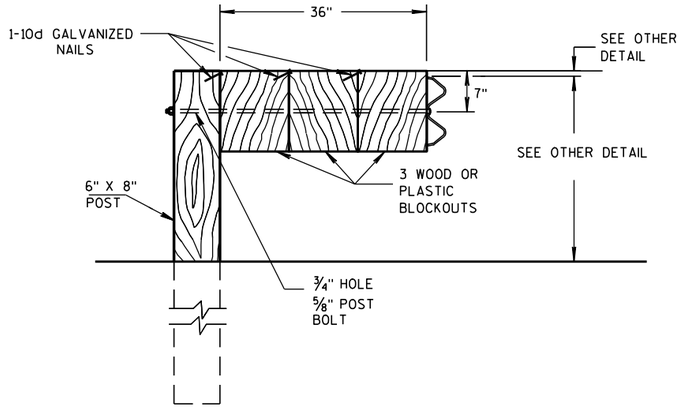
6

S.D.D. 14 B 42-2b



DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.

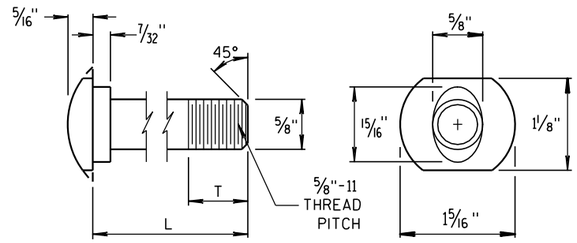


DETAIL FOR 36" BLOCKOUT DEPTH

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

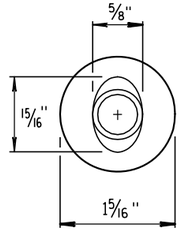
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

NOTE: 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 1/16".
2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

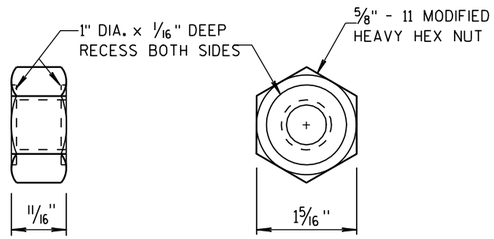


POST BOLT TABLE

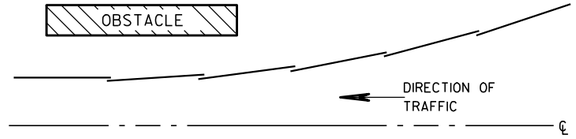
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



ALTERNATE BOLT HEAD

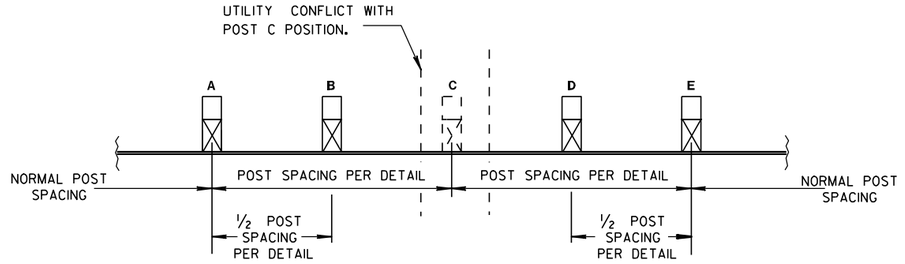


POST BOLT AND RECESS NUT

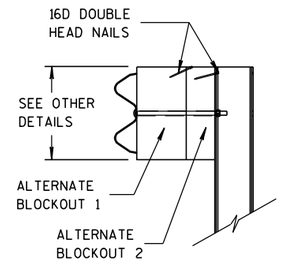


PLAN VIEW

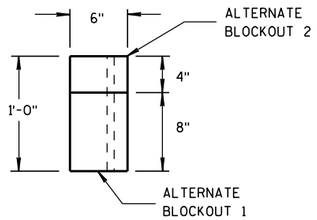
BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



SIDE VIEW



TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/15/2011
DATE

/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER

FHWA

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6

S.D.D. 14 B 42-2c

GENERAL NOTES

(A) THE SLOPE IN THE AREA BOUNDED BY THE EXTENDED VEHICLE RUNOUT PATH (EVRP), THE HINGE POINT LINE (HPL),AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED.

(C) DIFFERENT MANUFACTURES REQUIRE DIFFERENT PERFORATED W-BEAM RAIL END PANELS. SEE MANUFACTURES INFORMATION.

(D) THE TOP OF THE STEEL TUBE ON POST 1 AND POST 2 SHALL NOT BE MORE THAN 3" ABOVE THE FINISH GROUND ELEVATION.

(F) SHEETING IS ATTACHED TO 0.040 ALUMINUM SHEET AND ATTACHED TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF-TAPPING SCREWS. ONE SCREW PER CORNER OF E.A.T.

(G) ½" DIAMETER X 3" LONG LAG BOLT AND WASHER.

(H) HARDWARE VARIES BETWEEN DIFFERENT MANUFACTURES. SEE MANUFACTURE'S DRAWING FOR INFORMATION.

(I) DIMENSIONS MAY VARY. SEE MANUFACTURE'S INFORMATION.

SEE SDD 14B42 FOR MORE INFORMATION.

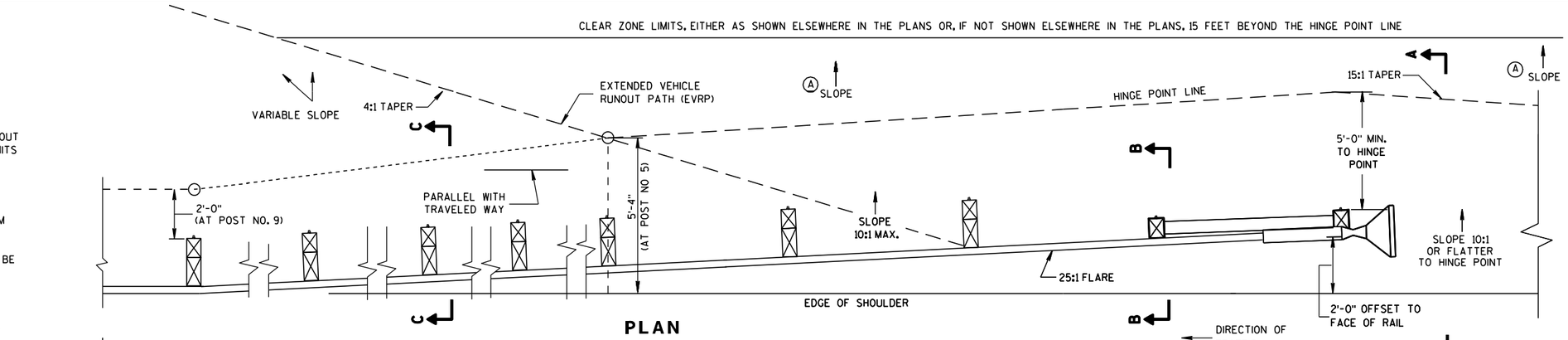
* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

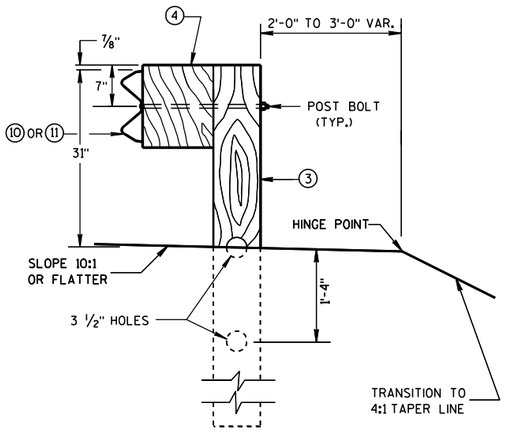
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

W-BEAM RAIL SPLICES ARE LOCATED AT POST NUMBER 3, AND BETWEEN POST 5 AND 6, BETWEEN POSTS 7 AND 8, AND MIDDLE OF THE SPAN AFTER POST 9.

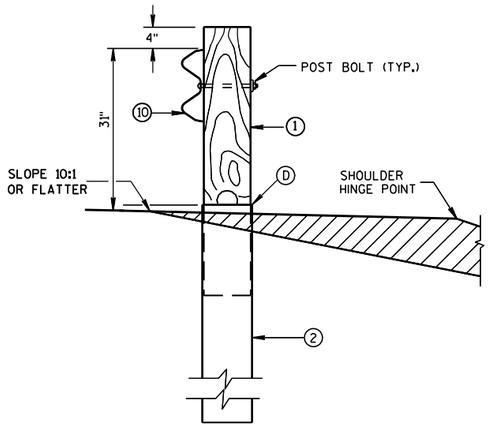
PATTERN AND COLORS ON REFLECTIVE SHEETING TYPE H ARE TO CONFORM TO OM3-L OR OM3-R OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE CENTER OF THE UPPER 3½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE (± ¾")

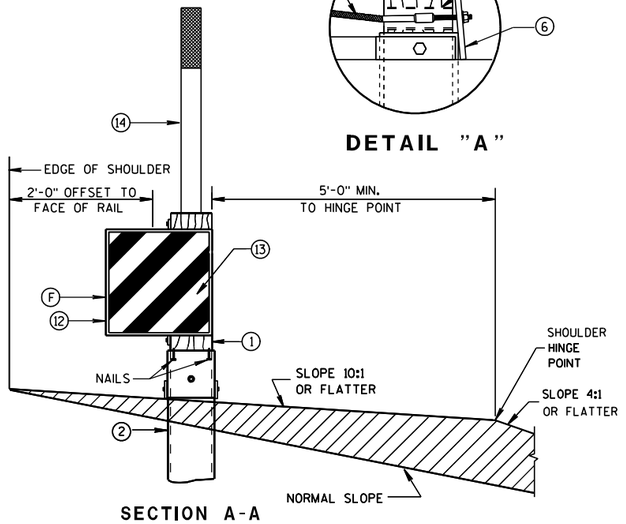




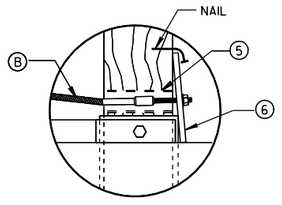
SECTION C-C
TYPICAL AT POST NOS. 3-9



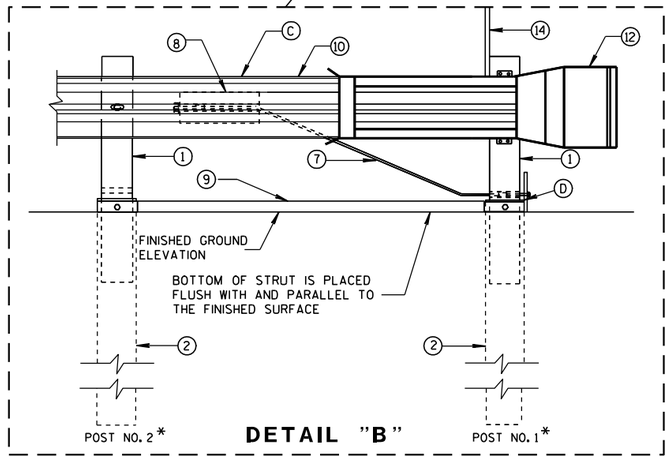
SECTION B-B
TYPICAL AT POST NO. 2*



SECTION A-A
TYPICAL AT POST NO. 1*



DETAIL "A"

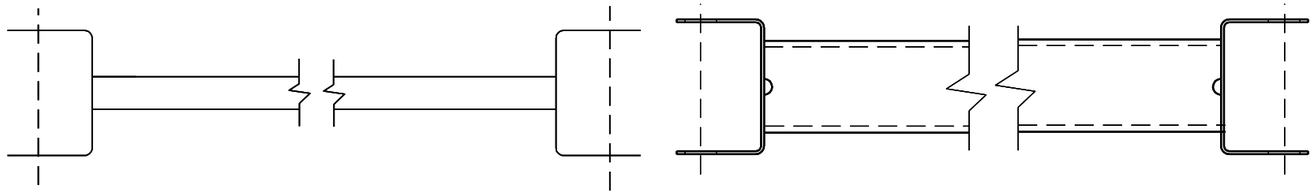


DETAIL "B"

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

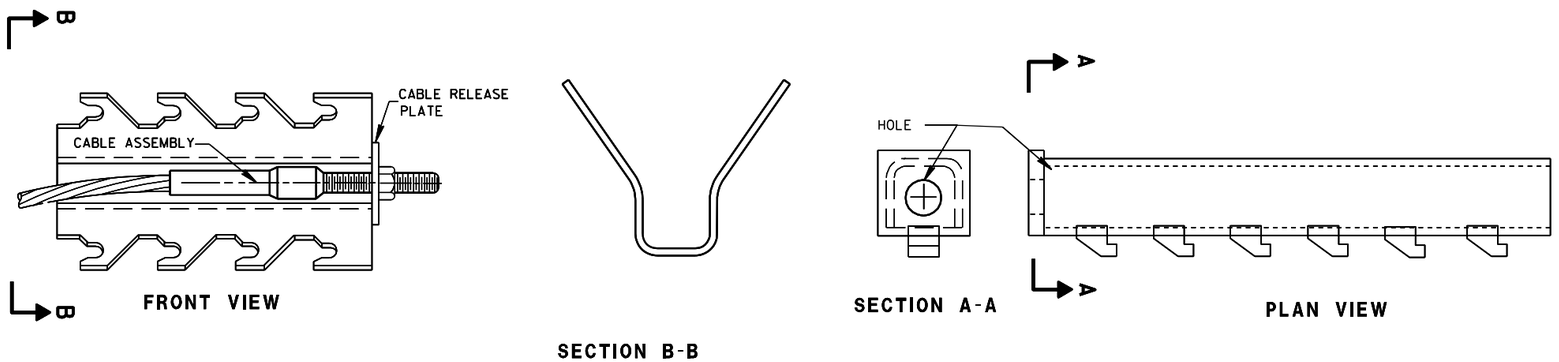
6
S.D.D. 14 B 44-1a



GENERIC GROUND STRUT (9) (H)

BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
(1)	WOOD BREAKAWAY POST
(2)	6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1 AND 2
(3)	WOOD CRT
(4)	WOOD BLOCKOUT
(5)	PIPE SLEEVE
(6)	BEARING PLATE
(7)	BCT CABLE ASSEMBLY
(8)	ANCHOR CABLE BOX
(9)	GROUND STRUT
(10)	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
(11)	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
(12)	END SECTION EAT
(13)	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE H (ONLY THE SHEETING IS SUPPLIED BY THE MANUFACTURER)
(14)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)



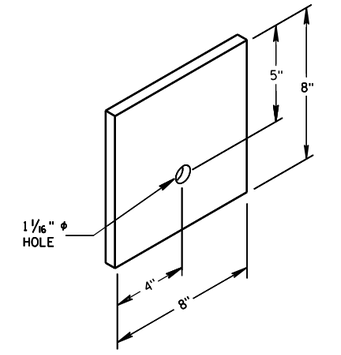
FRONT VIEW

SECTION B-B

SECTION A-A

PLAN VIEW

GENERIC ANCHOR CABLE BOX (8) (H)



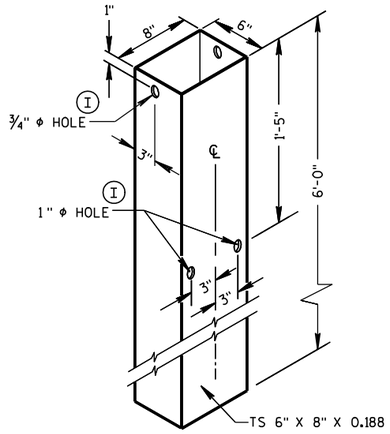
BEARING PLATE (6)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

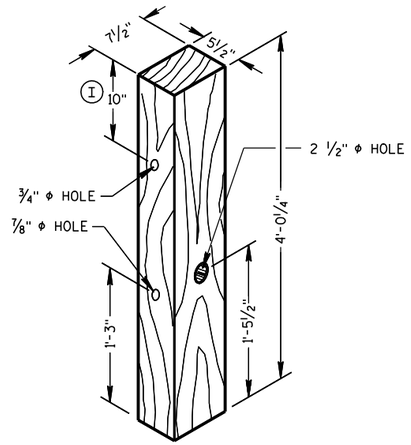
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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S.D.D. 14 B 44-1b

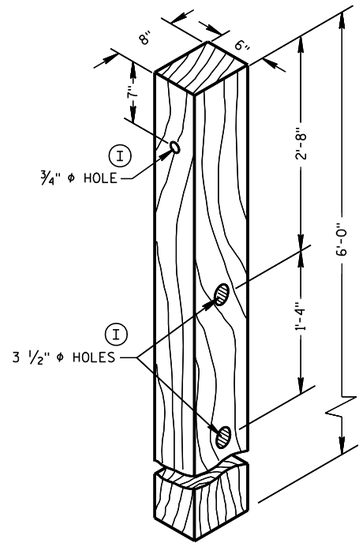


FOUNDATION TUBE (2)



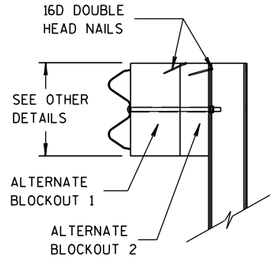
POSTS NUMBER 1 AND 2

WOOD BREAKAWAY POST (1)

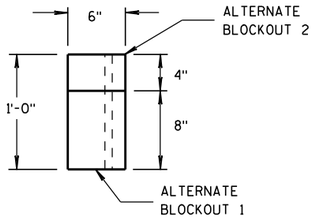


POSTS NUMBER 3-9

WOOD CRT POST (3)

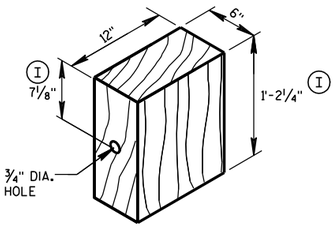


SIDE VIEW



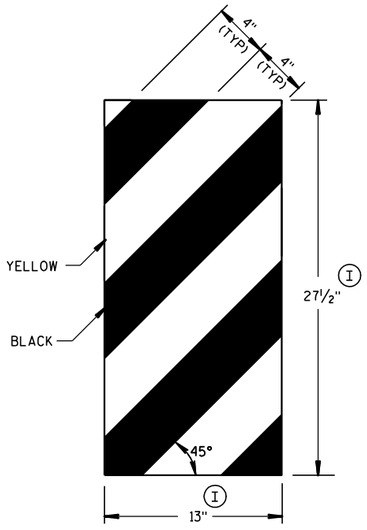
TOP VIEW

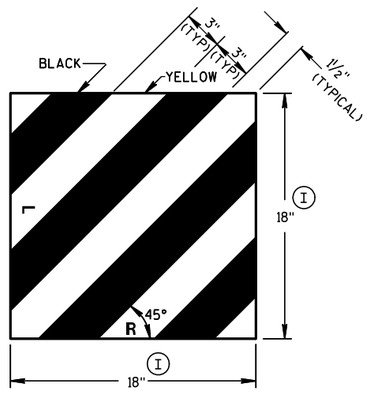
ALTERNATE WOOD BLOCKOUT DETAIL



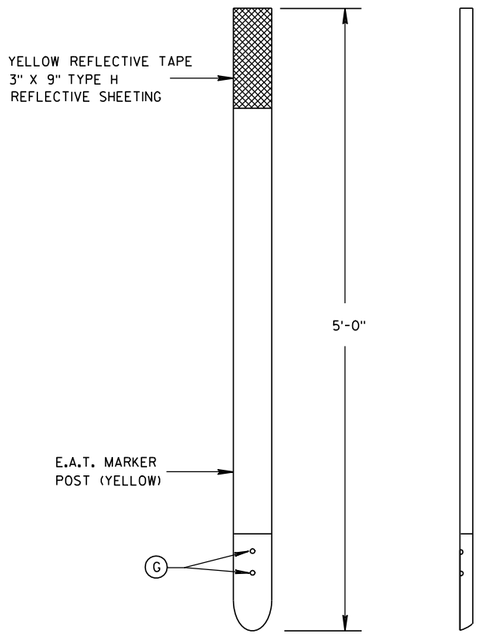
WOOD BLOCKOUT (4)

REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2





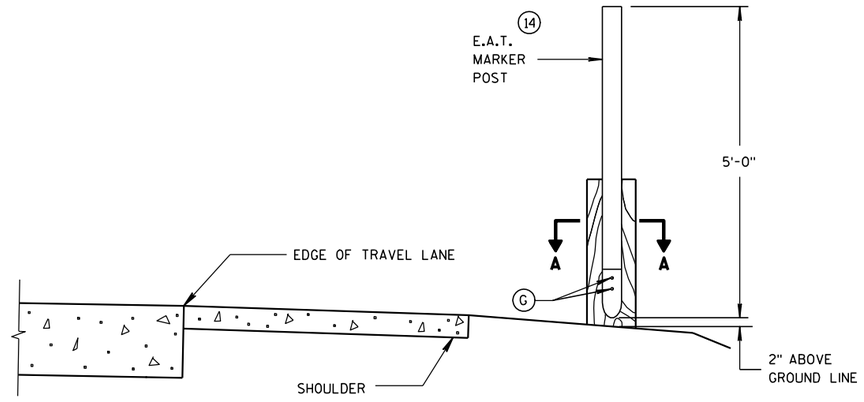
GENERIC REFLECTIVE SHEETING (13) (H)



FRONT VIEW

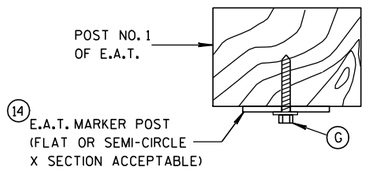
SIDE VIEW

E.A.T. MARKER POST (14)



TYPICAL INSTALLATION OF E.A.T. MARKER POST BACKSIDE OF POST NO. 1

(E.A.T. AND RAIL REMOVED FOR CLARITY)



SECTION A-A

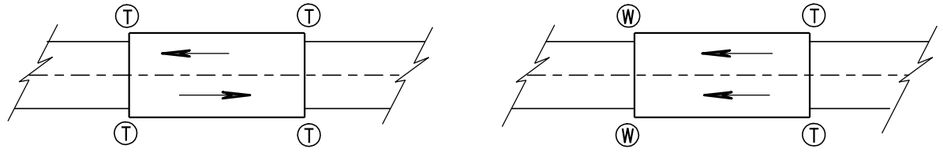
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/23/2011
DATE
/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER
FHWA

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S.D.D. 14 B 44-1c



TWO WAY TRAFFIC

ONE WAY TRAFFIC

(T) THRIE BEAM CONNECTION

(W) W-BEAM CONNECTION WHEN REQUIRED

TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE

GENERAL NOTES

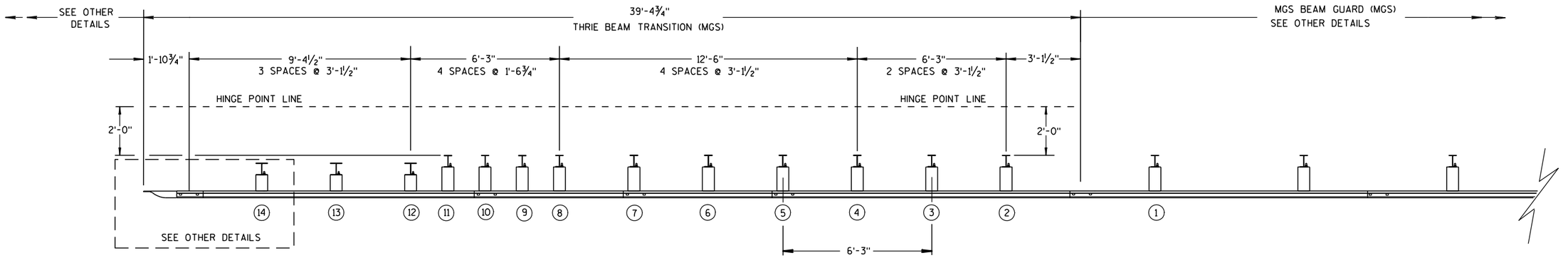
BOLT THE THRIE BEAM TO ALL POSTS AND BLOCKOUTS. DRILL OR PUNCH BOLT HOLES IN THE BEAM IF THE POST SPACING IS LESS THAN 6'-3.

IF ROCK IS ENCOUNTERED DURING EXCAVATION, SEE STANDARD DETAIL DRAWING 14 B 15-a.

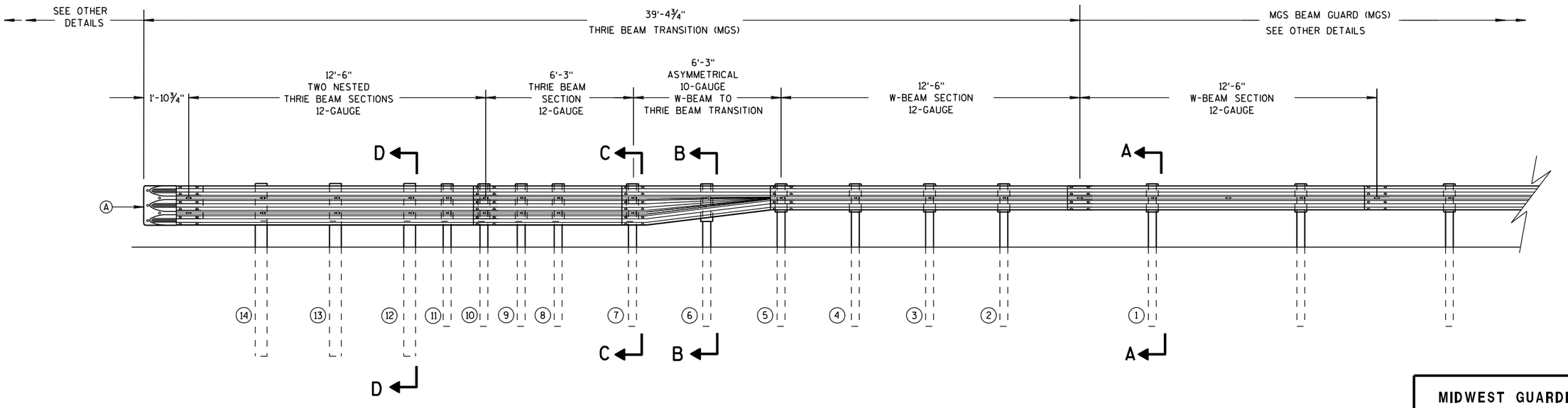
TRANSITION USES STEEL POSTS ONLY.

SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

(A) BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

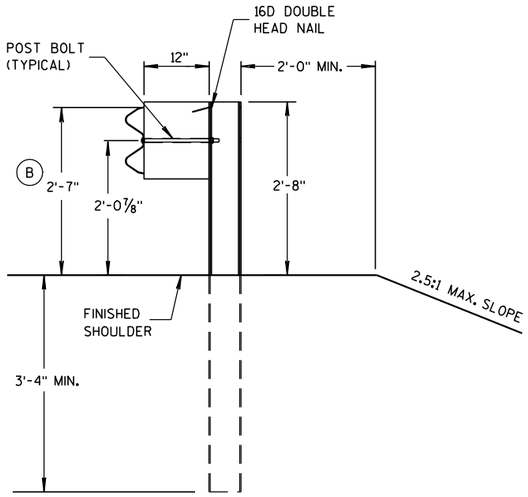
STATE OF WISCONSIN
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S.D.D. 14 B 45-1a

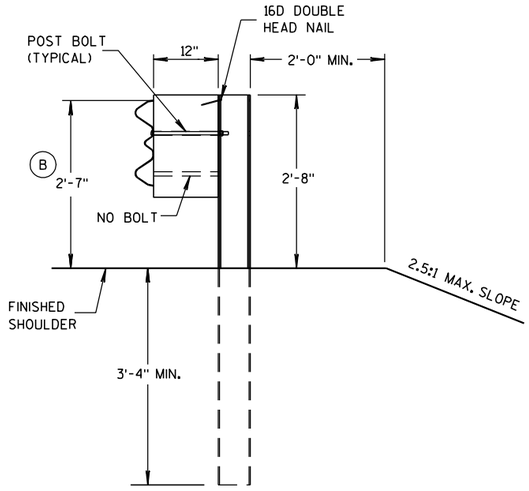
GENERAL NOTES

(B) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".



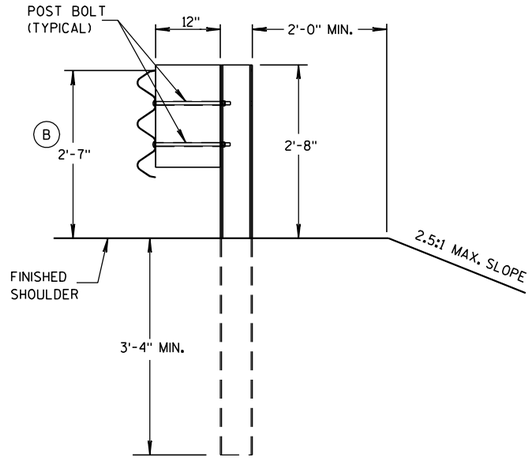
SECTION A-A

POSTS 1-5



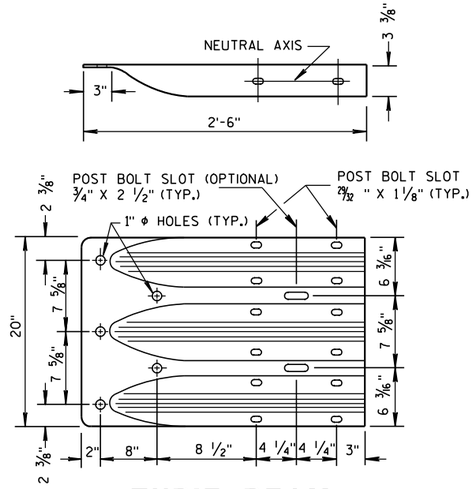
SECTION B-B

POST 6

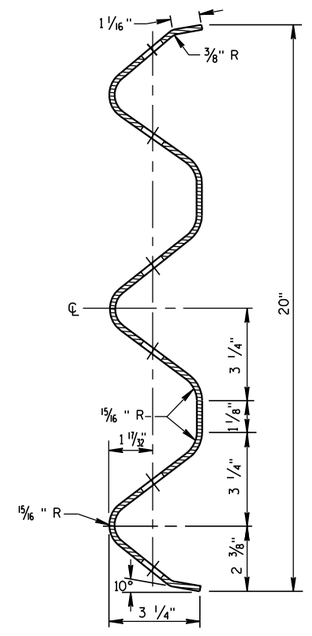


SECTION C-C

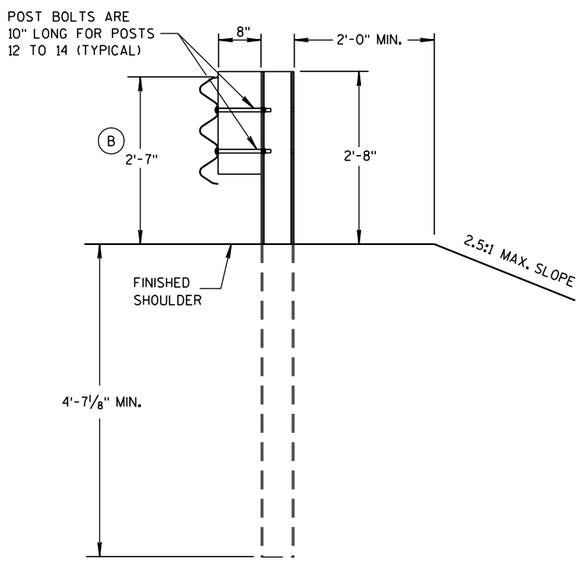
POSTS 7-11



THRIE BEAM TERMINAL CONNECTOR

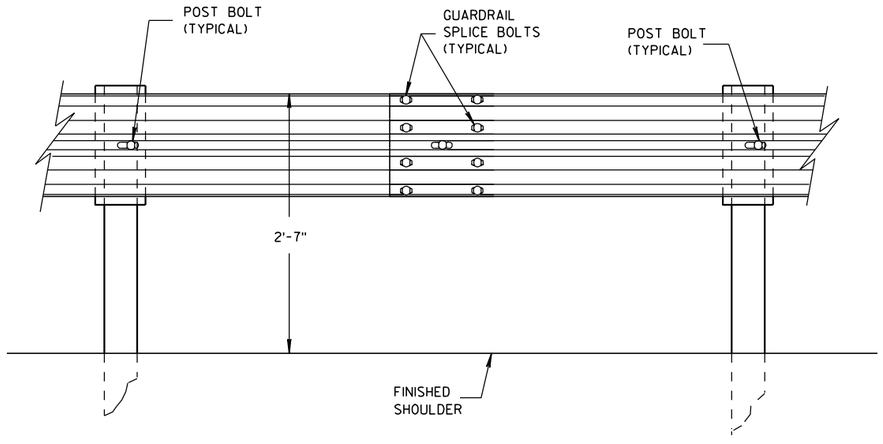


SECTION THRU THRIE BEAM RAIL ELEMENT



SECTION D-D

POSTS 12-14



SPLICE DETAIL

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

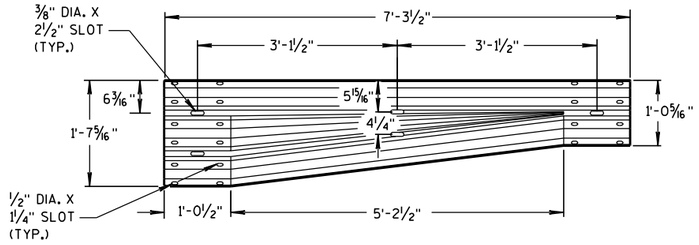
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

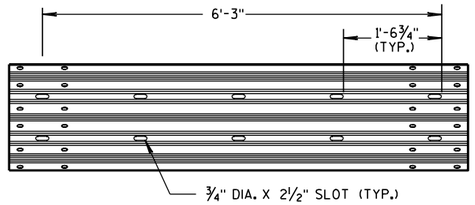
S.D.D. 14 B 45-1b

6

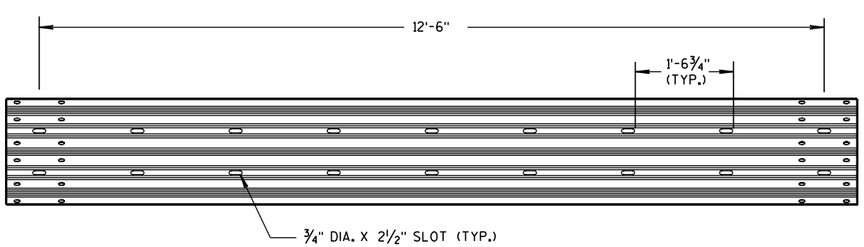
S.D.D. 14 B 45-1b



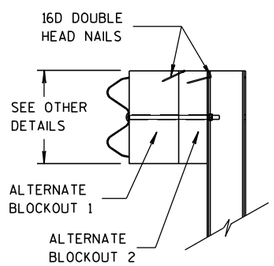
W-BEAM TO THRIE BEAM TRANSITION SECTION



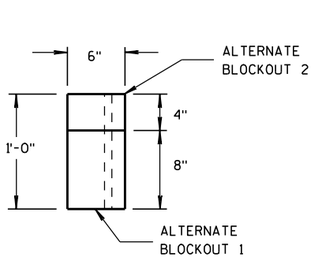
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

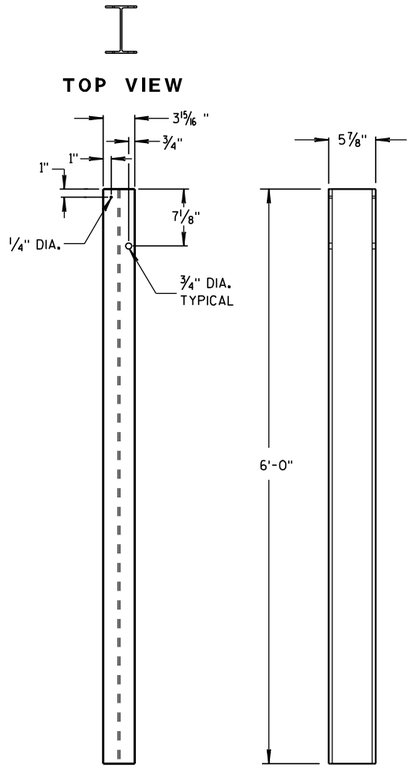


SIDE VIEW

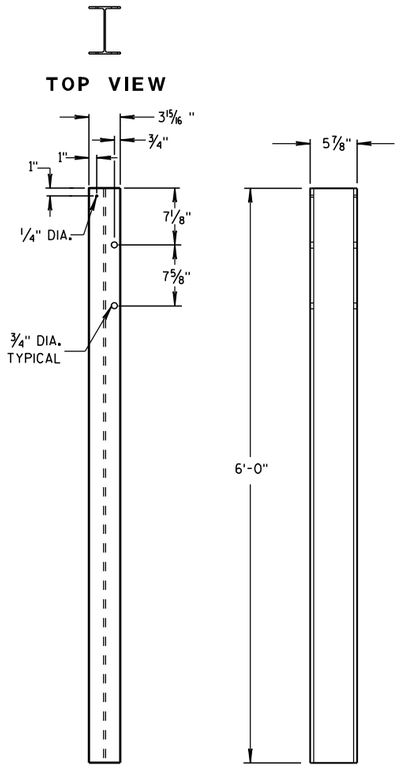


TOP VIEW

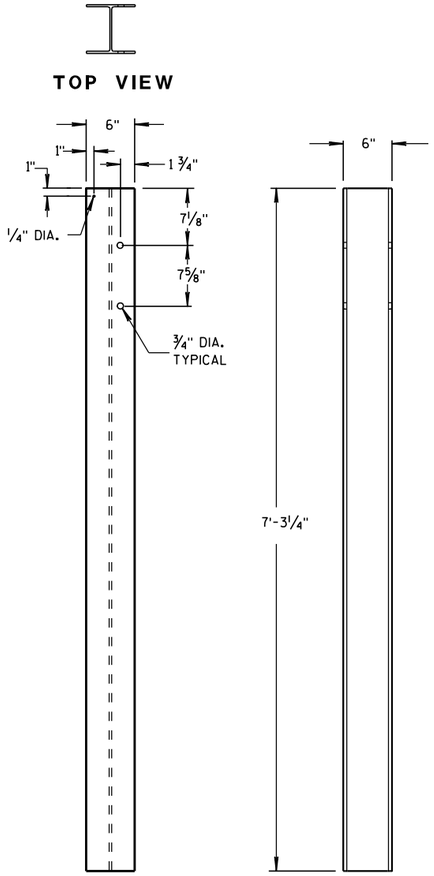
ALTERNATE WOOD BLOCKOUT DETAIL



STEEL POSTS 1-5

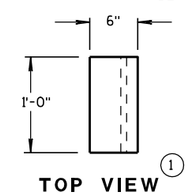


STEEL POSTS 6-11

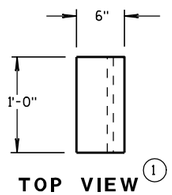


STEEL POSTS 12-14

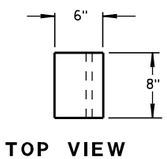
(1) WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.



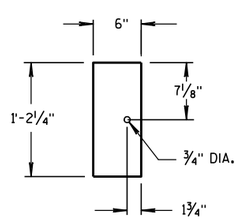
TOP VIEW (1)



TOP VIEW (1)

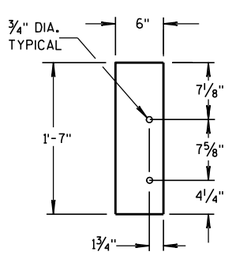


TOP VIEW



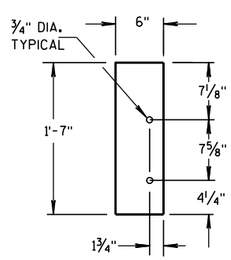
FRONT VIEW

BLOCKOUT POSTS 1-5



FRONT VIEW

BLOCKOUT POSTS 6-11



FRONT VIEW

BLOCKOUT POSTS 12-14

STEEL POST OPTION

POST NUMBER	SECTION TYPE	LENGTH
1	W6x9	72"
2	W6x9	72"
3	W6x9	72"
4	W6x9	72"
5	W6x9	72"
6	W6x9	72"
7	W6x9	72"
8	W6x9	72"
9	W6x9	72"
10	W6x9	72"
11	W6x9	72"
12	W6x15	87 1/8"
13	W6x15	87 1/8"
14	W6x15	87 1/8"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

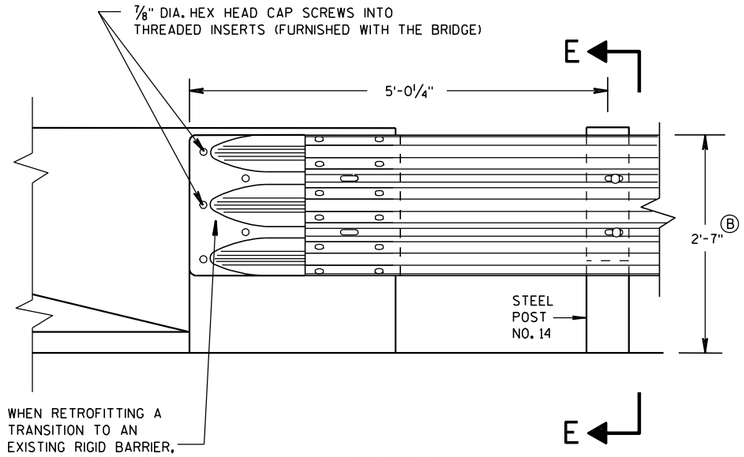
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

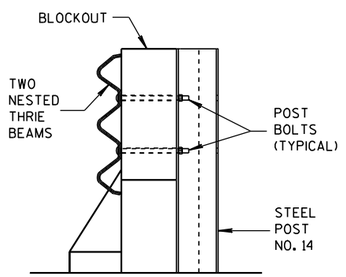
6

S.D.D. 14 B 45-1c

6

S.D.D. 14 B 45-1c





SECTION E-E

FRONT VIEW

THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS

GENERAL NOTES

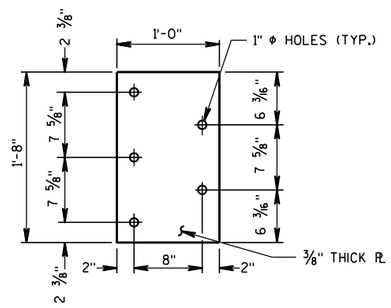
THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

(1) INCLUDE THE PAYMENT FOR DRILLING BOLT HOLES THROUGH THE PARAPET, AND THE BACKUP PLATE AND ALL BOLTS, NUTS AND WASHERS IN THE ITEM "STEEL THRIE BEAM STRUCTURAL APPROACH".

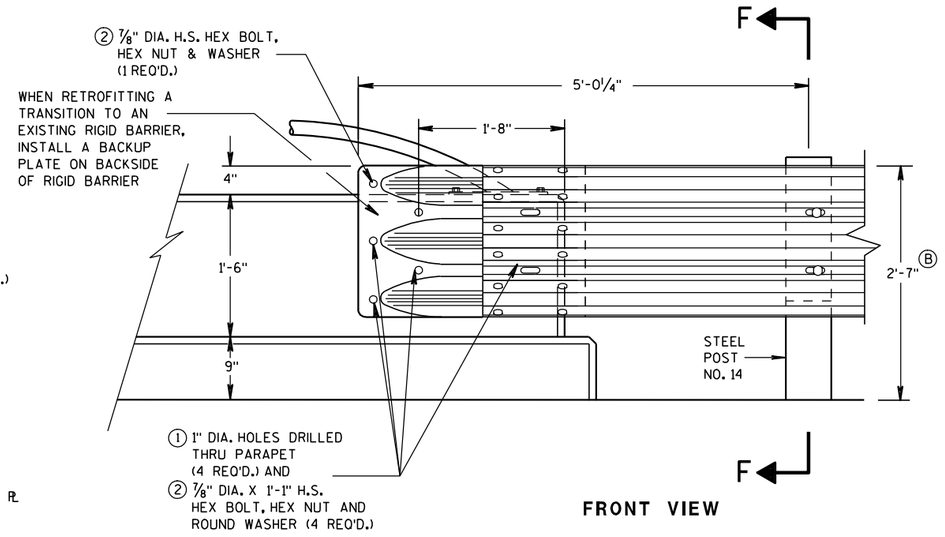
(2) EACH BOLT AT THE BACK FACE OF THE PARAPET REQUIRES A HARDENED ROUND STEEL WASHER WITH A 2 1/4" O.D. X 5/32 " THICK.

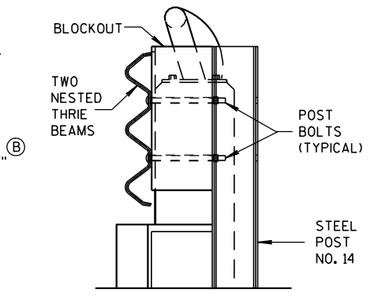
(3) THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".

(B) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".



(2) **BACKUP PLATE DETAIL**
(USE ONLY AT BRIDGE PARAPET CONNECTIONS)

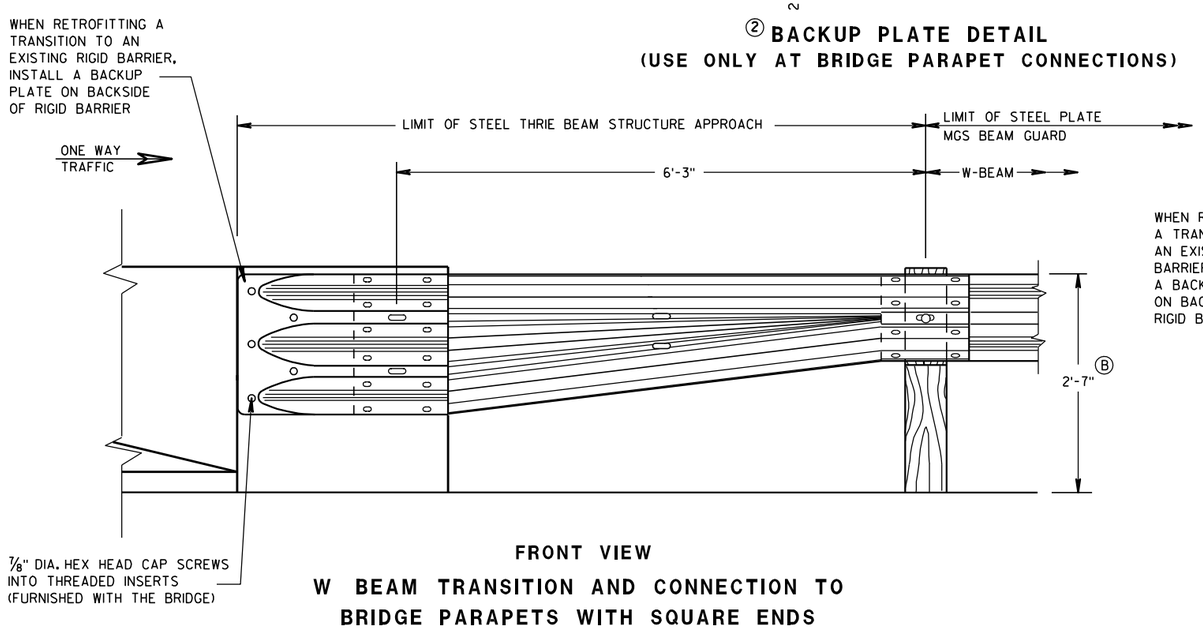




SECTION F-F

FRONT VIEW

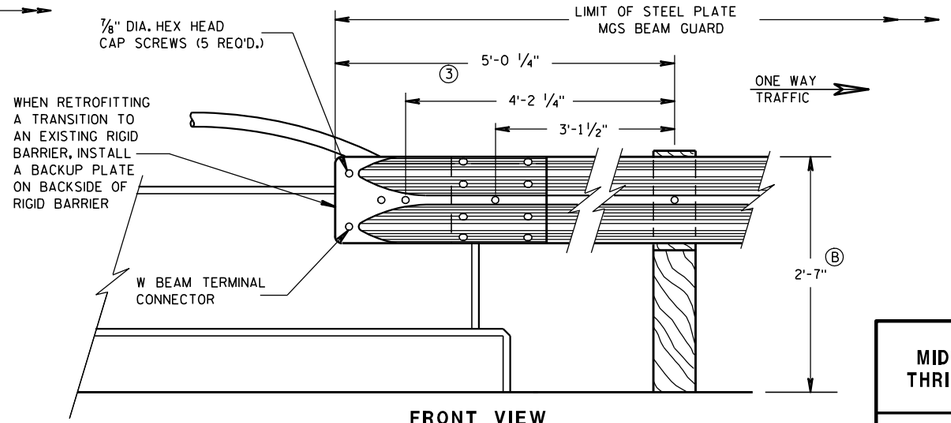
THRIE BEAM CONNECTION TO VERTICAL FACED PARAPETS



FRONT VIEW

W BEAM TRANSITION AND CONNECTION TO BRIDGE PARAPETS WITH SQUARE ENDS

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)



FRONT VIEW

W BEAM CONNECTION TO VERTICAL FACE PARAPET

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

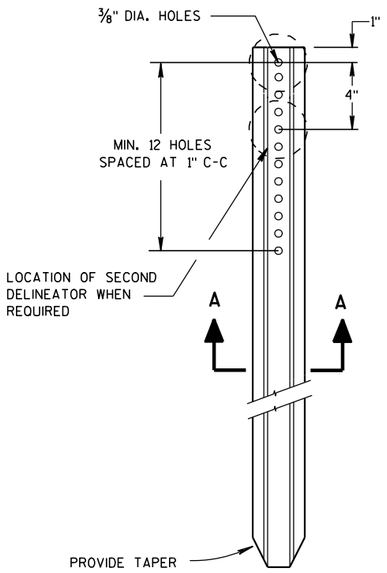
APPROVED
5/23/2011 DATE
/S/ Jerry H. [illegible]
ROADWAY STANDARDS [illegible]480 [illegible]ENT ENGINEER
FHWA

6

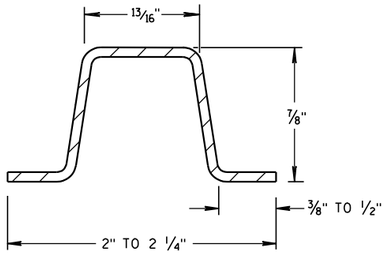
S.D.D. 14 B 45-1d

6

S.D.D. 14 B 45-1d

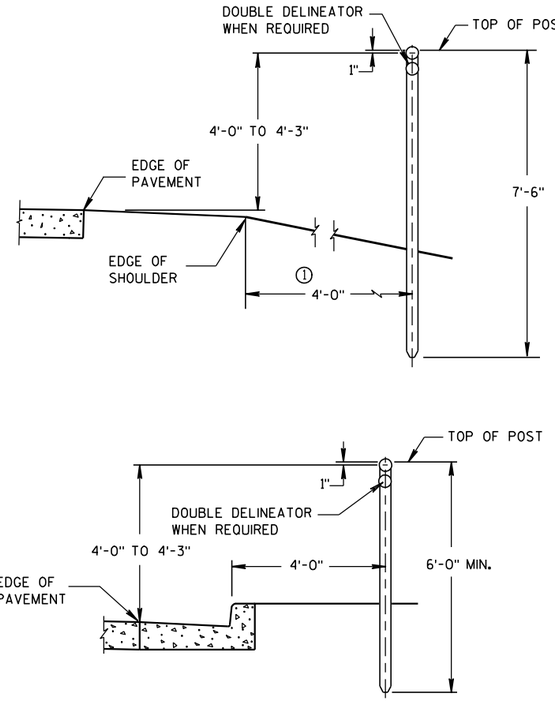


DELINEATOR POST



SECTION A-A

WEIGHT 1.12 LBS PER FT. ± 0.1 LB.

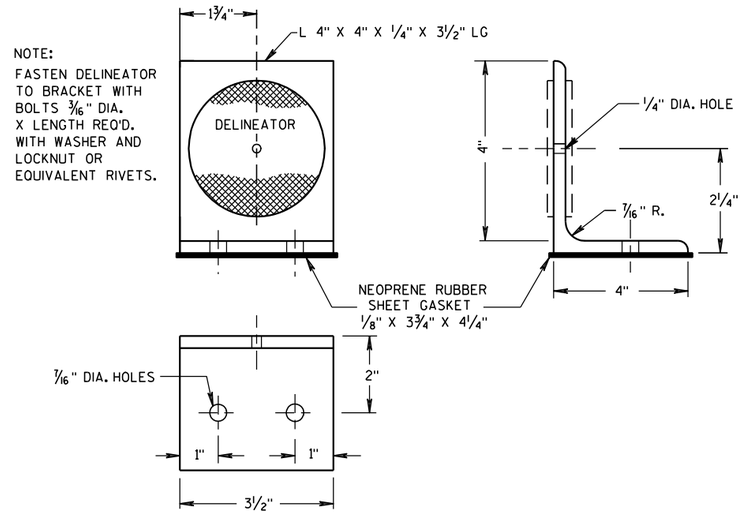


TYPICAL INSTALLATIONS OF DELINEATOR POSTS

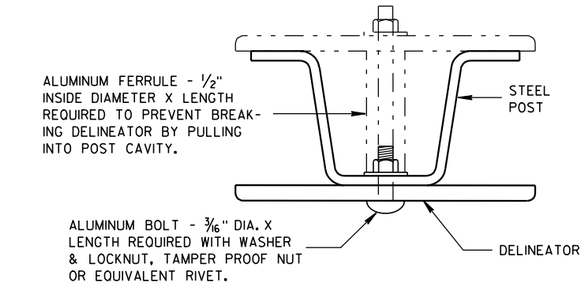
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

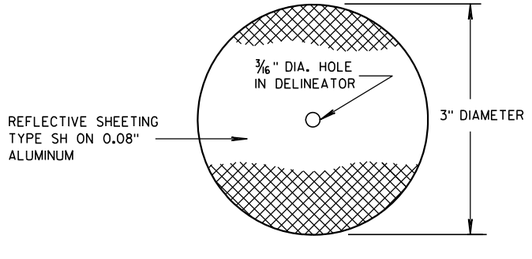
① DELINEATORS SHALL BE PLACED AT A CONSTANT DISTANCE FROM THE EDGE OF THE SHOULDER FOR THE LENGTH OF THE INSTALLATION.



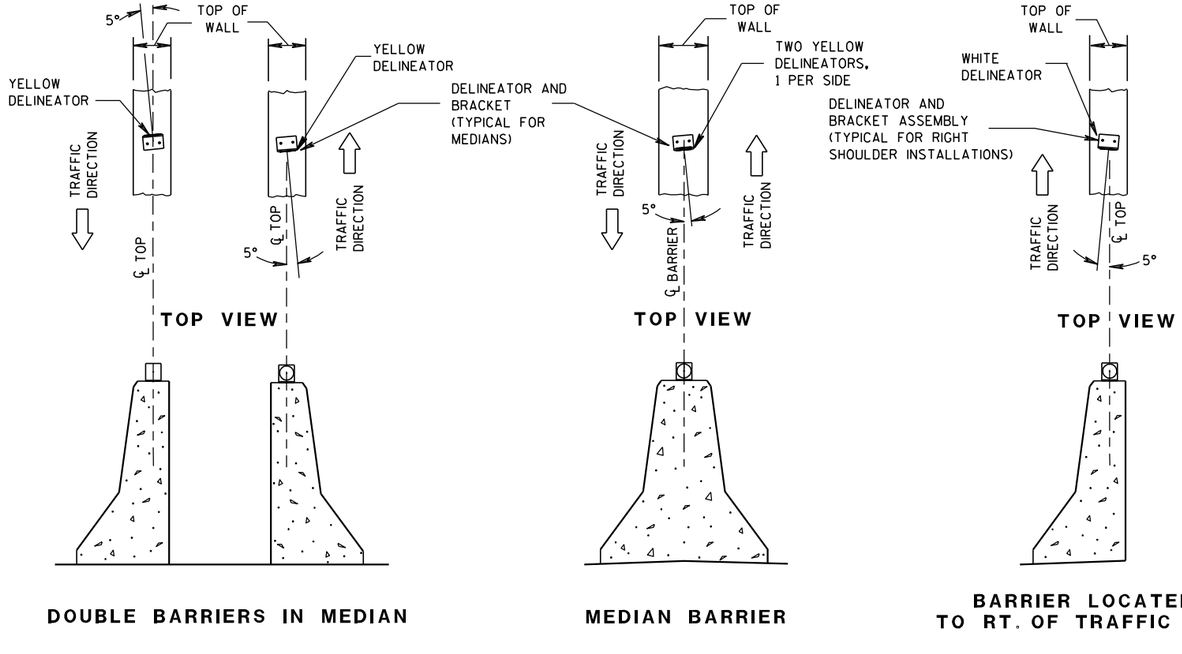
DELINEATOR BRACKET



MOUNTING DETAIL FOR DELINEATOR



DELINEATOR

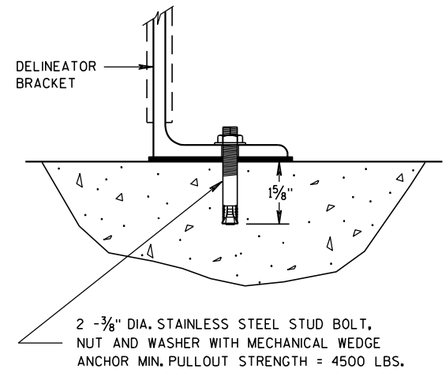


DOUBLE BARRIERS IN MEDIAN

MEDIAN BARRIER

BARRIER LOCATED TO RT. OF TRAFFIC FLOW

LOCATION AND AIMING DETAILS FOR DELINEATORS MOUNTED ON CONCRETE BARRIERS



DELINEATOR BRACKET MOUNTING DETAIL

DELINEATOR POST, DELINEATOR BRACKET AND DELINEATOR

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

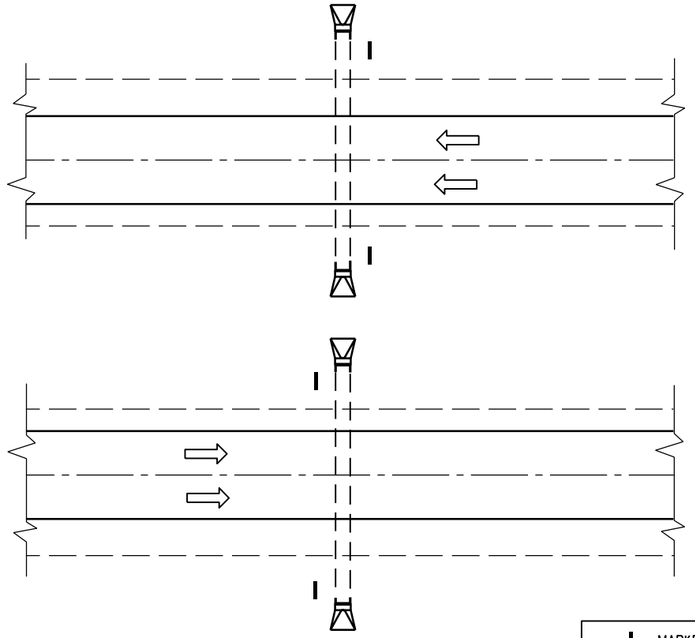
APPROVED
1/25/2011 — DATE
/S/ Thomas N. Nothdurft — STATE TRAFFIC ENGINEER
FHWA

6

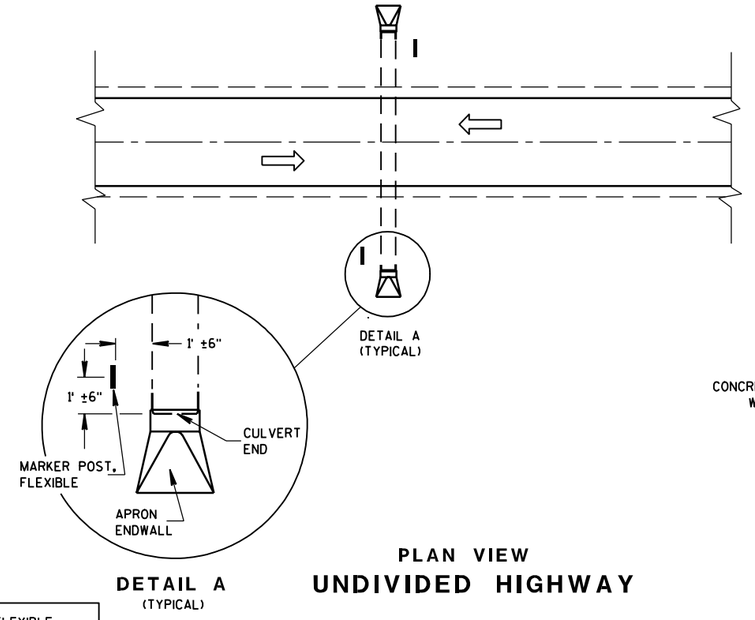
S.D.D. 15 A 2-7

6

S.D.D. 15 A 2-7



PLAN VIEW
DIVIDED HIGHWAY



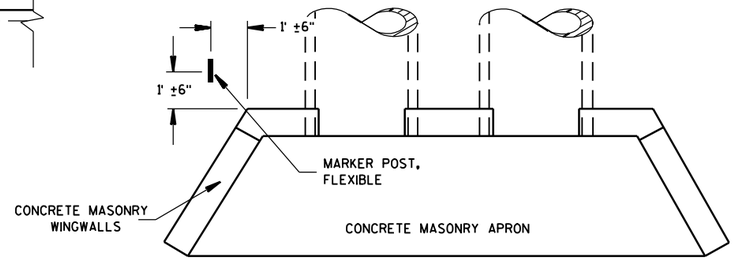
PLAN VIEW
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE
DIRECTION OF TRAFFIC FLOW

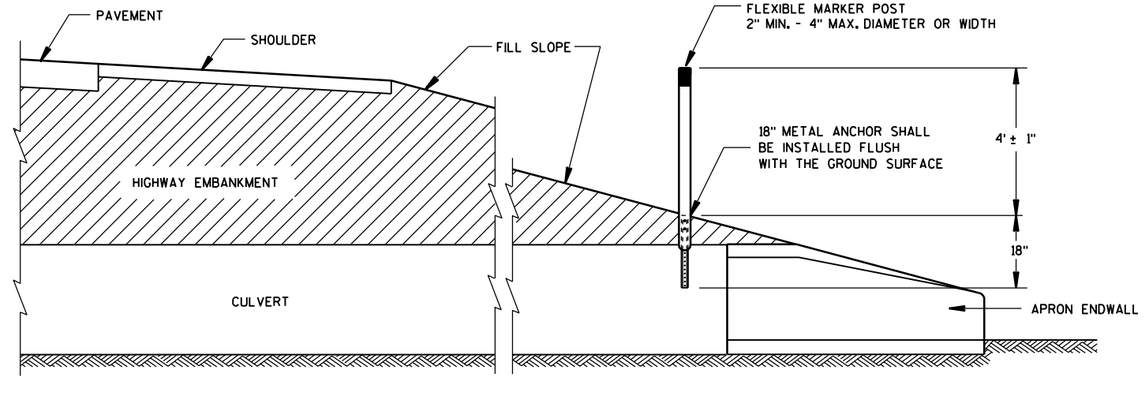
FLEXIBLE MARKER POST LOCATION

GENERAL NOTES

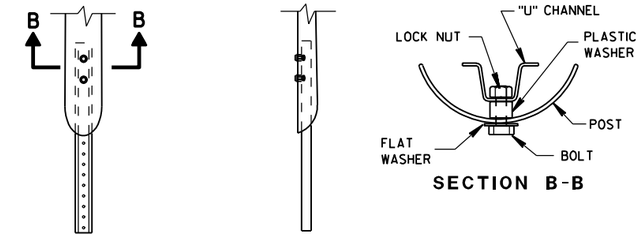
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW
CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

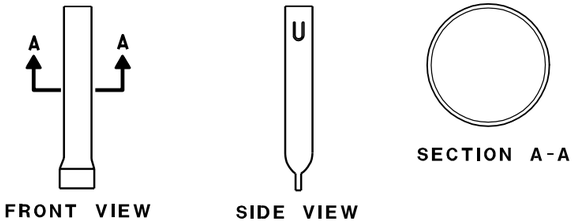


CROSS SECTION
FLEXIBLE MARKER POST



FRONT VIEW SIDE VIEW
CURVED MARKER

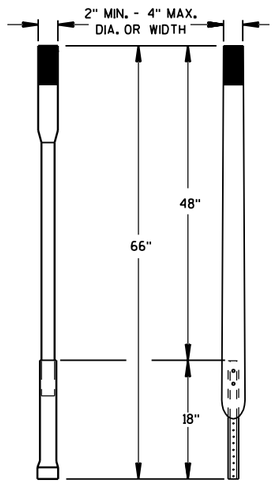
SECTION B-B



FRONT VIEW SIDE VIEW
ROUND MARKER

SECTION A-A

FLEXIBLE MARKER POST ANCHORS



ALTERNATE 1 ALTERNATE 2

FLEXIBLE MARKER POST

MARKER POST, FLEXIBLE, FOR CULVERT END

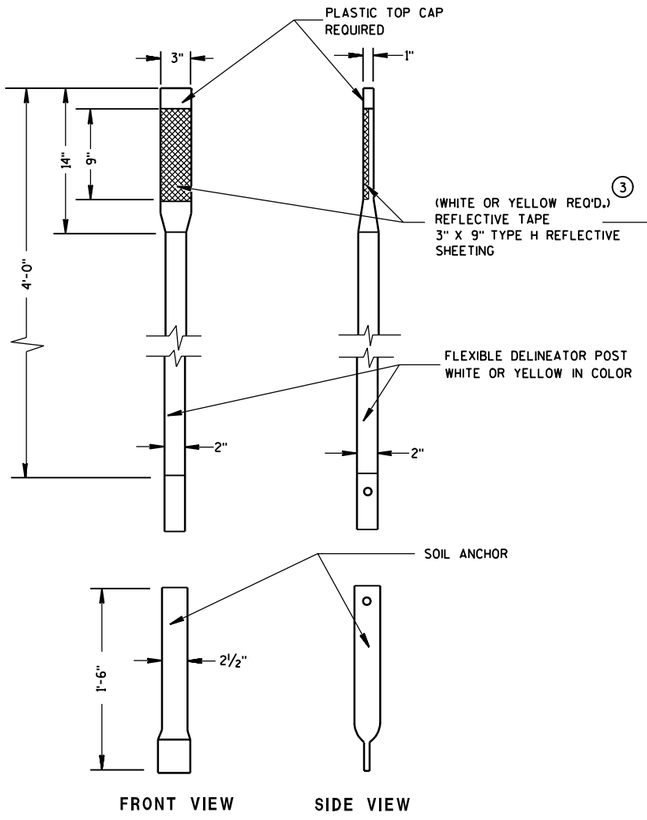
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/1/98
DATE

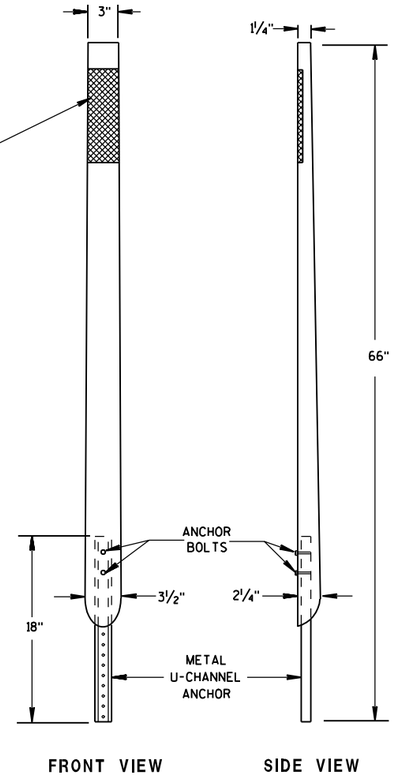
Roy L. Amundson
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

S.D.D. 15 A 3-1

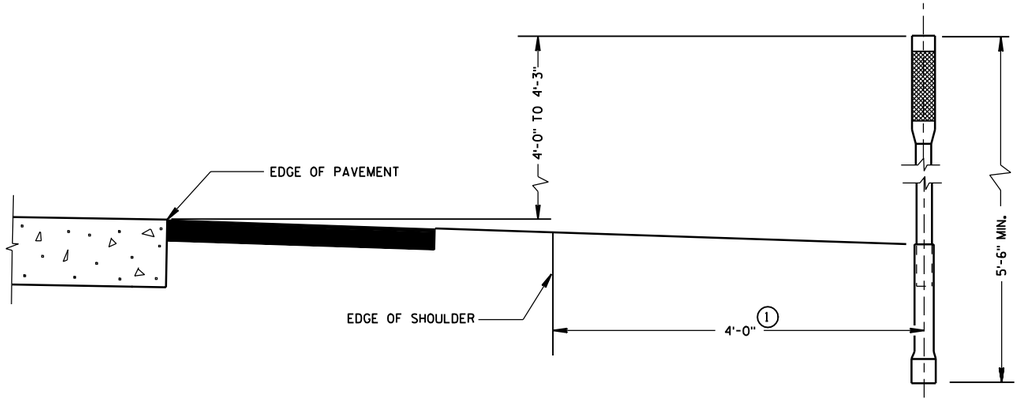


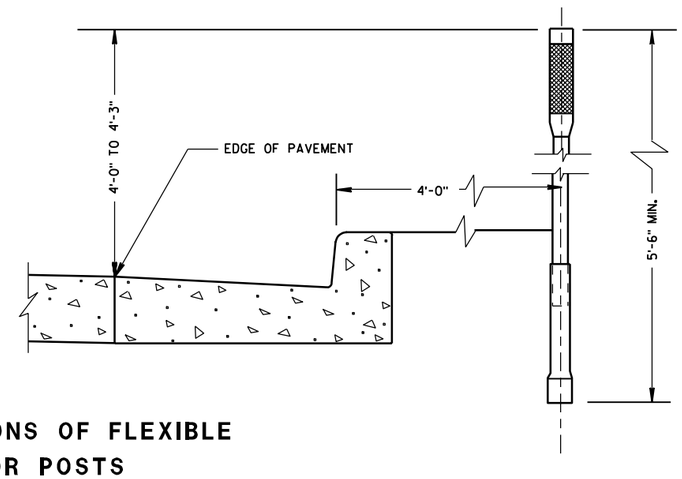
ALTERNATE 1



ALTERNATE 2

FLEXIBLE DELINEATOR POST





TYPICAL INSTALLATIONS OF FLEXIBLE DELINEATOR POSTS

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDATRD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

① DELINEATORS SHALL BE PLACED AT A CONSTANT DISTANCE FROM THE EDGE OF THE SHOULDER FOR THE LENGTH OF THE INSTALLATION.

② EITHER ALTERNATE NO. 1 OR NO. 2 MAY BE FURNISHED.

③ AS PER SECTION 637.2.2.2. OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.

FLEXIBLE DELINEATOR POST

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11-6-01
DATE

Chester J. Spacy
CHIEF SIGNS AND MARKING ENGINEER

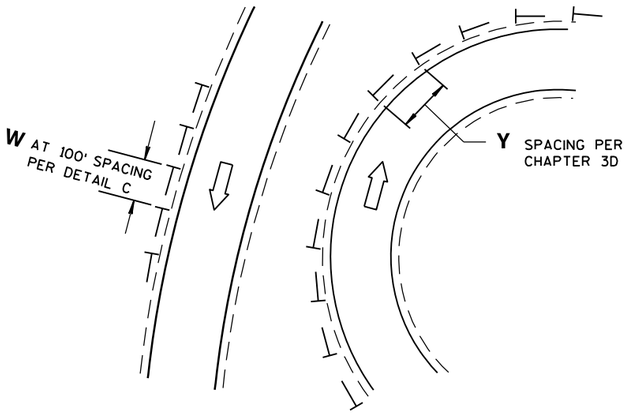
FHWA

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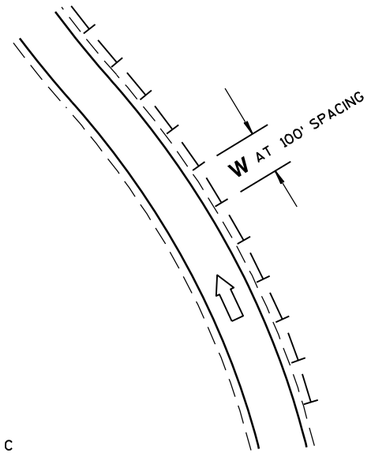
S.D.D. 15 A 4-1

GENERAL NOTES

* USE DOUBLE DELINEATOR ALONG ACCELERATION-DECELERATION LANES AND TAPERS. USE SINGLE DELINEATOR WHEN RAMP PAVEMENT IS FULL WIDTH.



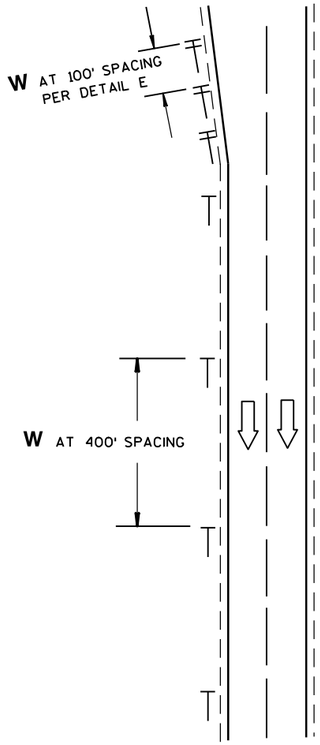
DETAIL A
DELINEATOR LAYOUT AT CURVED RAMP



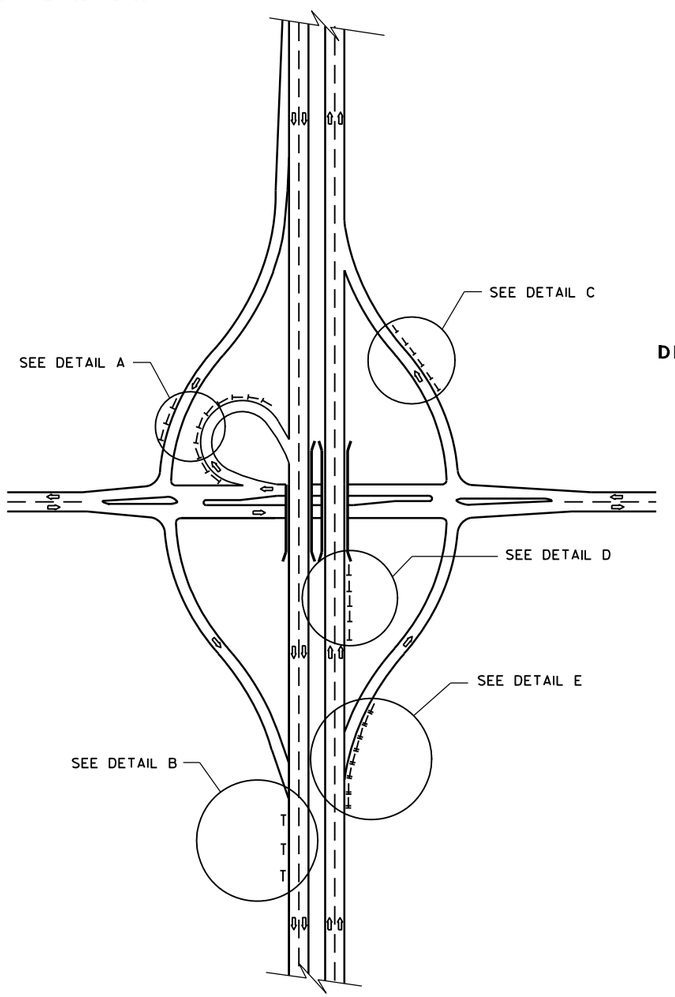
DETAIL C
DELINEATOR LAYOUT ALONG RAMP

LEGEND

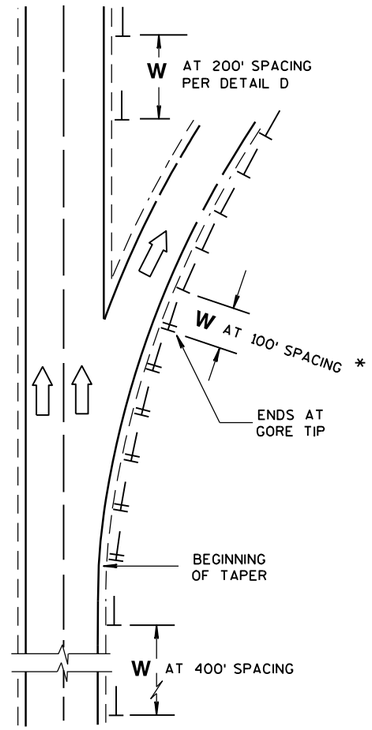
⇨	DIRECTION OF TRAFFIC FLOW
⊥	SINGLE DELINEATOR
⊥	DOUBLE DELINEATOR
W	WHITE
Y	YELLOW



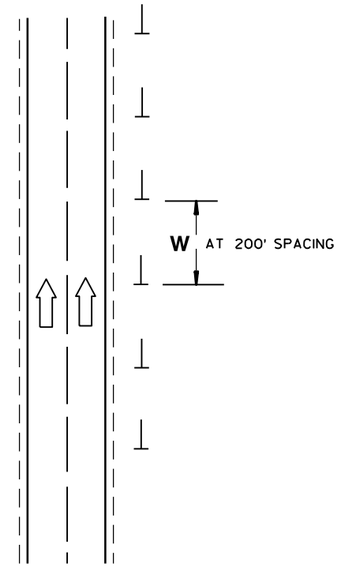
DETAIL B
DELINEATOR LAYOUT ALONG MAINLINE



DELINEATOR LAYOUT



DETAIL E
DELINEATOR LAYOUT FOR ACCELERATION - DECELERATION LANES AND TAPERS AT RAMPS



DETAIL D
DELINEATOR LAYOUT BETWEEN INTERCHANGE RAMPS

DELINEATOR LAYOUT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
2/5/09 DATE
/S/ Thomas N. Notbohm
STATE TRAFFIC ENGINEER OF DESIGN
FHWA

6

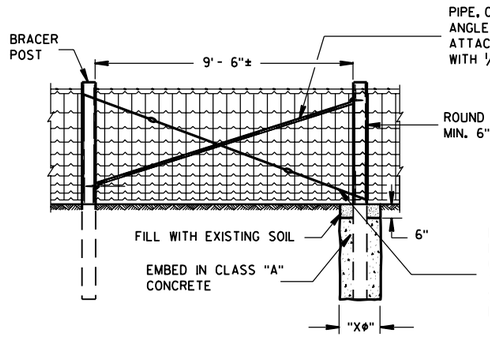
S.D.D. 15 A 6-2

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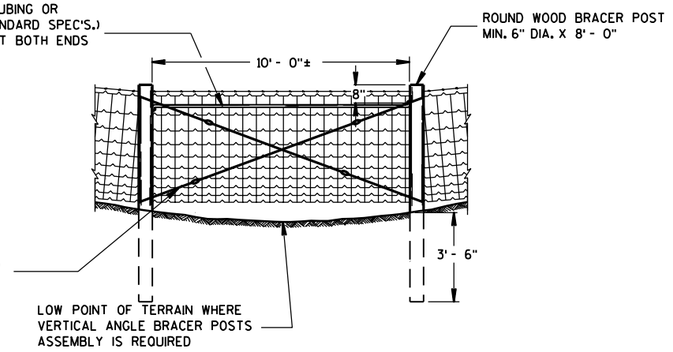
S.D.D. 15 A 6-2

NOTE: PULL OR STRETCHER POST ASSEMBLIES SHALL BE PLACED MIDWAY BETWEEN END POSTS AND CORNER POSTS WHERE A RUN OF FENCE EXCEEDS 660' BUT IS LESS THAN 1,320'. FOR RUNS OF FENCE IN EXCESS OF 1,320' MAXIMUM SPACING OF PULL OR STRETCHER POST ASSEMBLIES SHALL BE 660'± C-C.

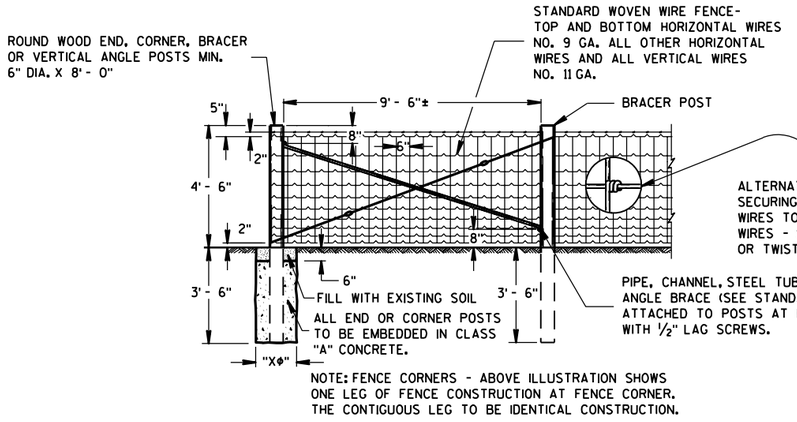
ILLUSTRATION SHOWS POSITION OF STANDARD STEEL BRACE, DOUBLE STRAND GALVANIZED WIRE, AND THE POST TO BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM LEFT TO RIGHT. THE BRACES SHALL BE POSITIONED ON THE OPPOSITE DIAGONALS AND THE OPPOSITE POST SHALL BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM RIGHT TO LEFT.



PULL OR STRETCHER POSTS ASSEMBLY

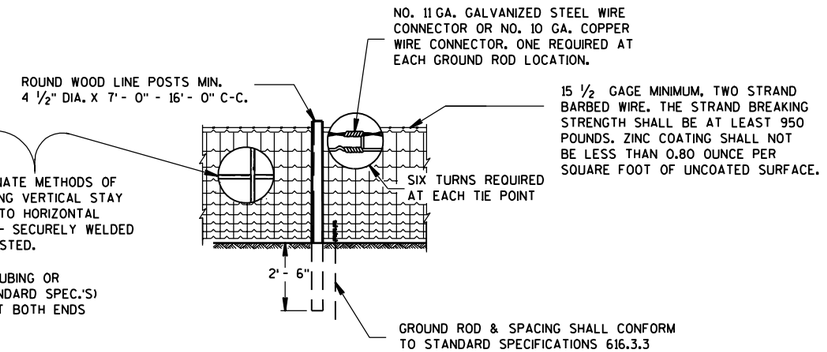


VERTICAL ANGLE BRACER POSTS ASSEMBLY



NOTE: FENCE CORNERS - ABOVE ILLUSTRATION SHOWS ONE LEG OF FENCE CONSTRUCTION AT FENCE CORNER. THE CONTIGUOUS LEG TO BE IDENTICAL CONSTRUCTION.

END OR CORNER POSTS ASSEMBLY



LINE FENCE CONSTRUCTION

GENERAL NOTES

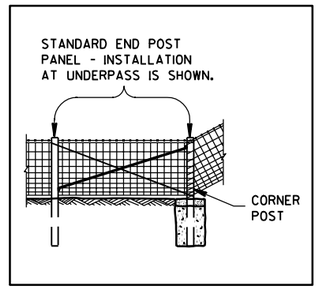
"X∅" = DIAMETER OF THE POST PLUS 12".

FENCE STAPLES SHOULD NEVER BE DRIVEN VERTICALLY INTO WOOD POSTS (WITH BOTH LEGS PARALLEL WITH THE WOOD GRAIN). DOING SO CAN SEPARATE THE GRAIN AND SIGNIFICANTLY REDUCE THE HOLDING POWER. ROTATING THE STAPLES SLIGHTLY OFF VERTICAL STRADDLES THE GRAIN AND PROVIDES MORE RESISTANCE TO PULL-OUT.

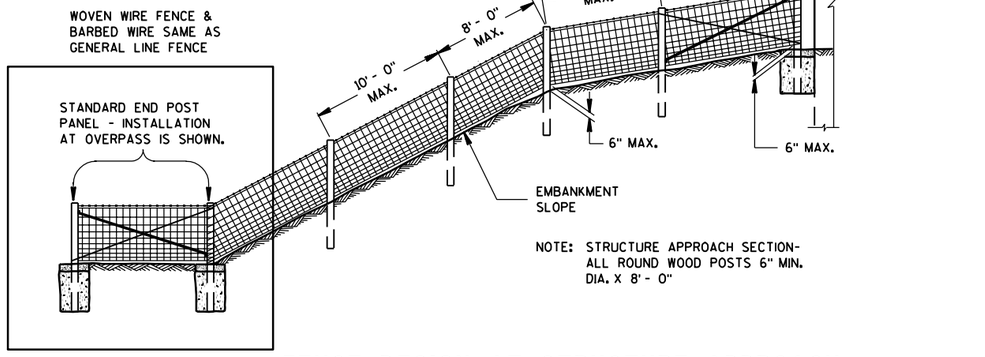
DO NOT STAPLE WIRE TIGHT TO THE LINE POSTS. ALLOW MOVEMENT OF WIRE FOR EXPANSION AND CONTRACTION. STAPLE ARRANGEMENT SHALL BE THE SAME FOR ALL OTHER POSTS EXCEPT THAT THEY SHALL BE DRIVEN TIGHT TO POSTS. ALL STAPLES SHALL BE 2" X 9 GAGE AND SHALL BE MANUFACTURED FROM GALVANIZED WIRE OR HOT DIP GALVANIZED AFTER FORMING. STAPLES SHALL HAVE SLASH-CUT POINTS.

FENCE SHALL BE LOCATED 3'-0" INSIDE THE RIGHT OF WAY LINE UNLESS OTHERWISE INDICATED ON THE PLANS.

GENERAL ROADSIDE VIEW OF WOVEN WIRE FENCE



ALTERNATE FENCE DESIGN AT STRUCTURE



FENCE DESIGN AT STRUCTURE APPROACH

FENCE WOVEN WIRE

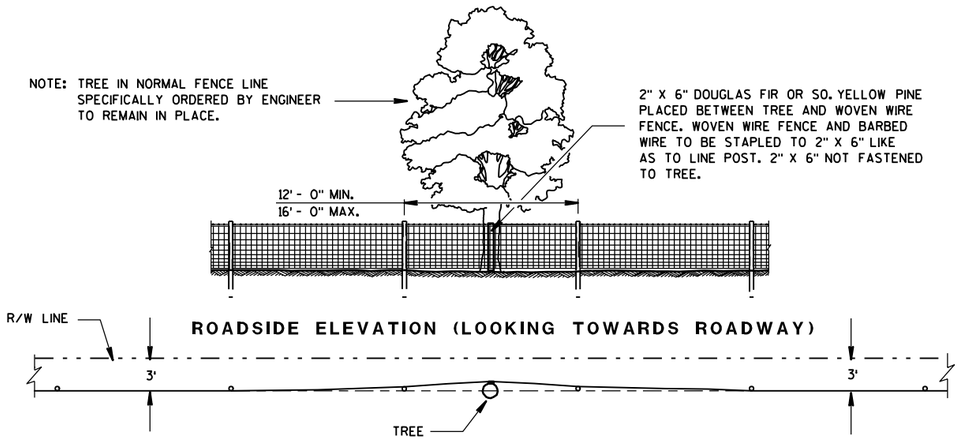
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 15 B 1-8a

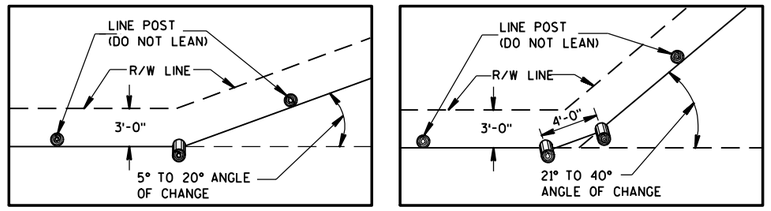
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S.D.D. 15 B 1-8a



PLAN VIEW

FENCE DESIGN AT TREES REMAINING IN NORMAL FENCE LINE



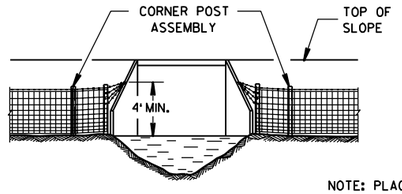
PLAN VIEW
SINGLE POST CORNER

PLAN VIEW
DOUBLE POST CORNER

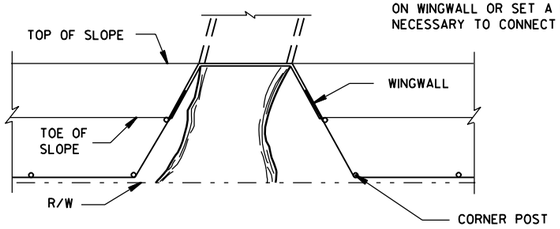
RIGHT OF WAY LINE CHANGE 40° AND LESS

NOTE: SINGLE AND DOUBLE POSTS SHALL BE A MIN. 6" DIA. X 8'-0" WITH A LEAN OF 4" TOWARD THE OUTSIDE OF THE CURVE.

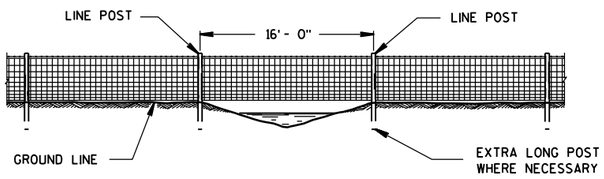
WHEN THE RIGHT OF WAY LINE CHANGE IS MORE THAN 40° USE THE CORNER OR STRETCHER POSTS ASSEMBLY.



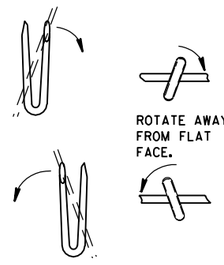
NOTE: PLACE A MINIMUM OF 4 STRANDS OF BARBED WIRE. 6" MAXIMUM CENTERS IN FAN SHAPE CONNECTED TO AN EYE BOLT ON WINGWALL OR SET A LONE POST WHEN NECESSARY TO CONNECT BARBED WIRE.



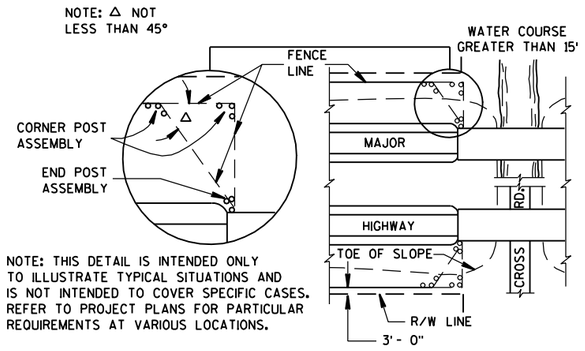
FENCE INSTALLATION TO WINGWALLS



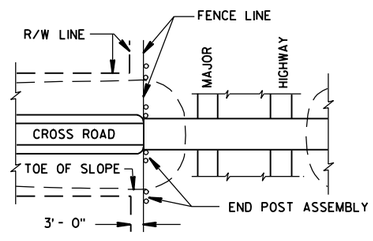
FENCE CONSTRUCTION OVER STREAM COURSES OF 15 FT. OR LESS IN WIDTH



LINE POST

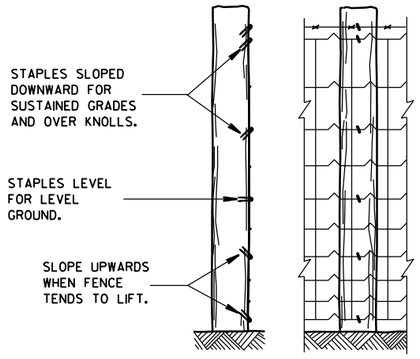


PLAN VIEW
MAJOR HIGHWAY OVERPASS OR STREAM COURSE CROSSING OF GREATER THAN 15 FT. IN WIDTH



PLAN VIEW
MAJOR HIGHWAY UNDERPASS

NOTE: WHEN POSTS ARE DRIVEN THE SMALL END SHALL BE DOWN.



END ELEVATION

FARM SIDE ELEVATION

FENCE MOUNTING DETAIL

FENCE LOCATION AT STRUCTURES

FENCE WOVEN WIRE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

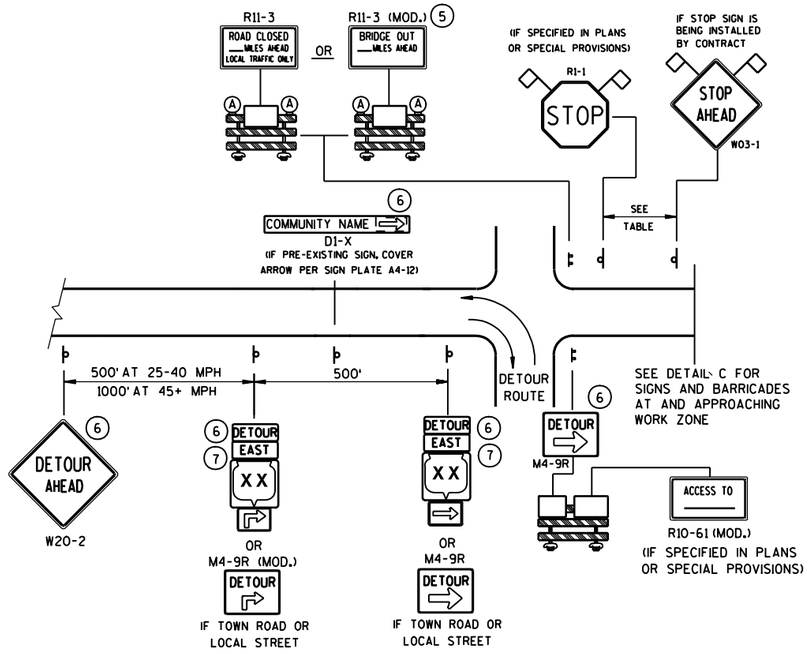
APPROVED
4/4/08 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

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S.D.D. 15 B 1-8b

6

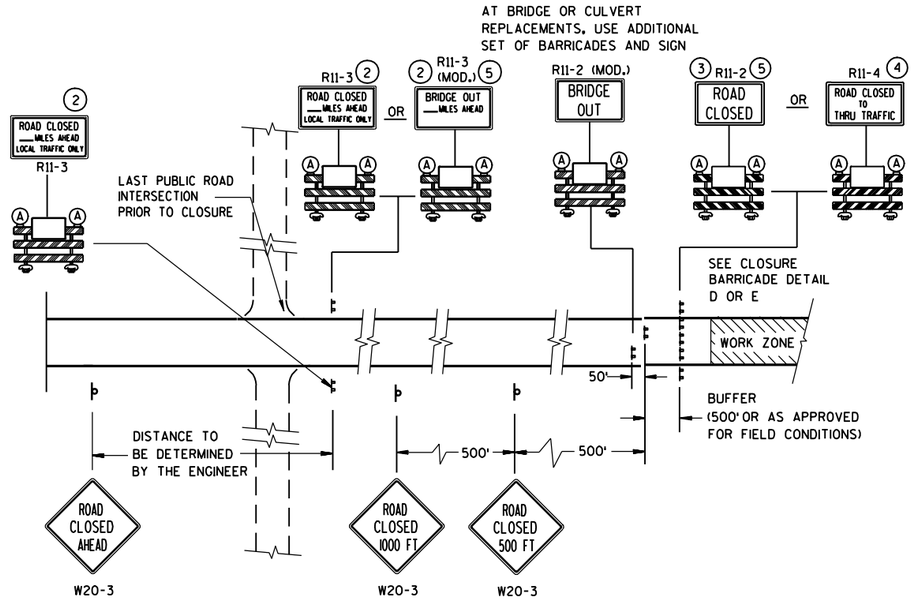
S.D.D. 15 B 1-8b



DETAIL A

MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

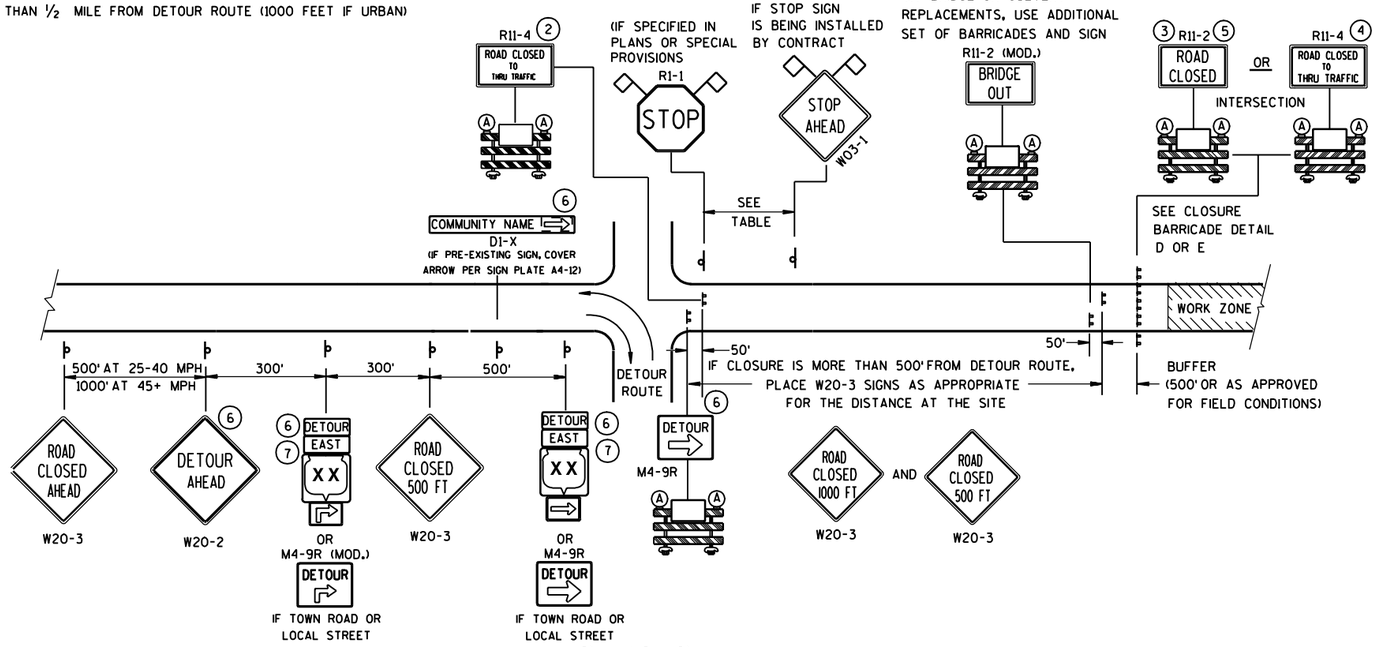


DETAIL C

MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-4b
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦



DETAIL B

MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

LEGEND

- POST MOUNTED SIGN
- TYPE III BARRICADES
- (A) TYPE "A" LOW INTENSITY FLASHING WARNING LIGHT (FOR NIGHT USE)
- WORK ZONE
- DETOUR / EAST — M4-8 / M3-X
- XX — M1-4; COUNTY XX — M1-5A; XX — M1-6
- M05-1 OR M06-1
- FLAGS, 16" X 16" MIN., (ORANGE)

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

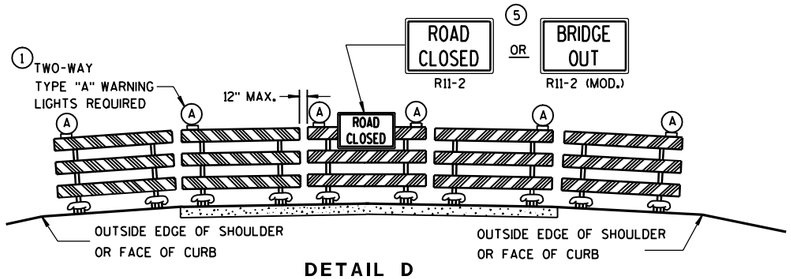
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 15 C 2-4a

6

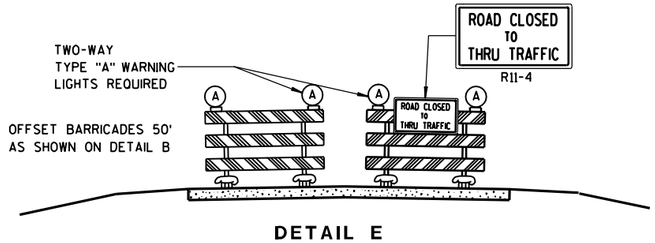
S.D.D. 15 C 2-4a



DETAIL D

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E

LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

SEE SDD 15C2-4a FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

THE REFLECTIVE SHEETING USED ON R11-2, R11-3, R11-4, R10-61 AND R1-1 SIGNS SHALL COMPLY WITH SUBSECTION 637.2.2.2 OF THE STANDARD SPECIFICATIONS.

"WO AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11-2 SHALL BE 48" X 30".
- R11-3, R11-4 AND R10-61 SHALL BE 60" X 30".
- M4-9 SHALL BE 30" X 24".
- M3-X AND M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1-1 SHALL BE 36" X 36".

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT LIGHT SPACING).

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

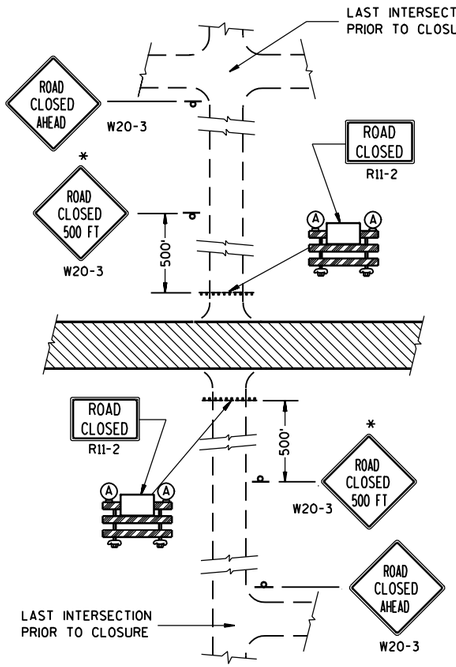
APPROVED
9/16/03
DATE

Thomas N. Notbohm for
CHIEF SIGNS AND MARKING ENGINEER

FHWA

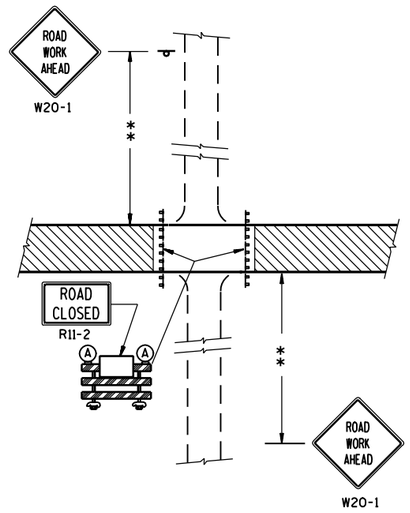
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S.D.D. 15 C 2-4b



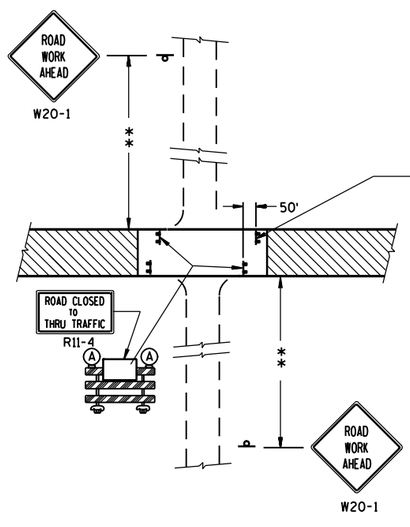
DETAIL 1

(NO ACCESS TO PROJECT)



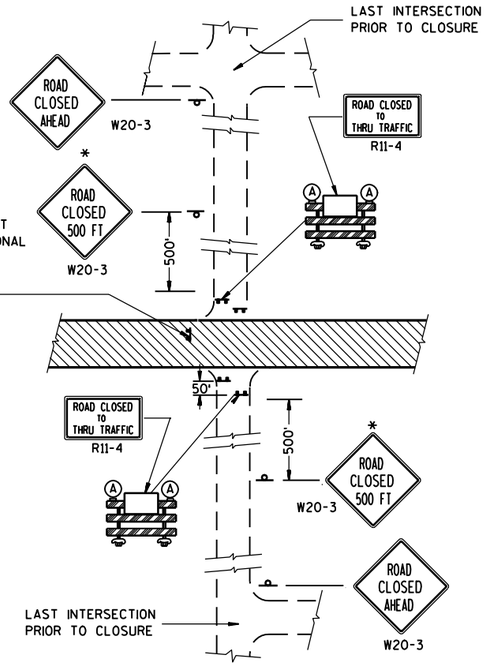
DETAIL 2

(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT).



DETAIL 3

(PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR,
LOCAL BUSINESS AND RESIDENT ACCESS).



DETAIL 4

(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3 AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

THE REFLECTIVE SHEETING USED ON R11-2, R11-3 AND R11-4 SIGNS SHALL COMPLY WITH SUBSECTION 637.2.2.2 OF THE STANDARD SPECIFICATIONS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

- POST MOUNTED WARNING SIGN
- TYPE III BARRICADES
- (A) TYPE "A" LOW INTENSITY FLASHING WARNING LIGHT (FOR NIGHT USE)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9-16-03
DATE
FHWA

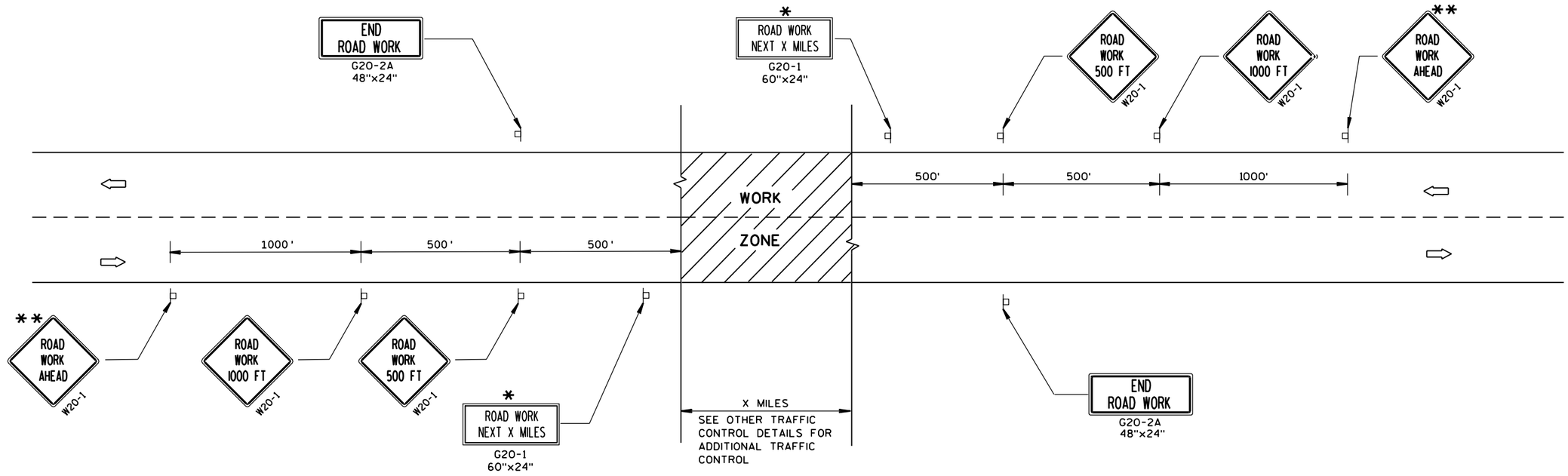
Thomas N. Notbohm for
CHIEF SIGNS AND MARKING ENGINEER

6

S.D.D. 15 C 3-1

6

S.D.D. 15 C 3-1



6

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

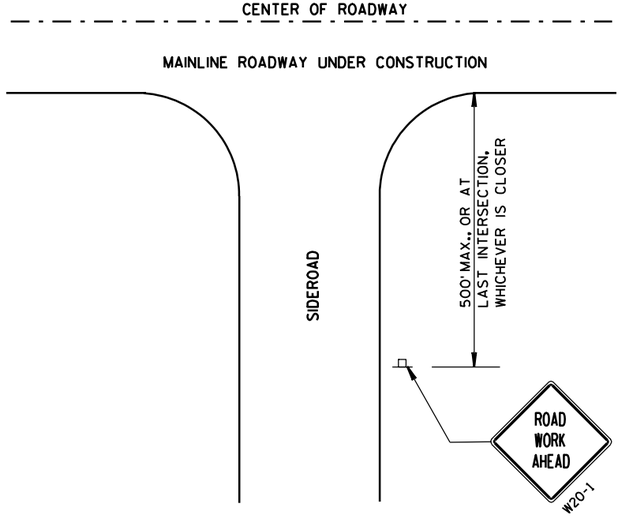
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

** PLACE ADDITIONAL W20-1 "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA OR SIGNING.

TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



LEGEND

POST MOUNTED SIGN

DIRECTION OF TRAFFIC FLOW

TRAFFIC CONTROL.
ADVANCE WARNING SIGNS
45 M.P.H. OR GREATER
TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/23/00
DATE
Chester J. Sparr
CHIEF SIGNS AND MARKING ENGINEER
FHWA

S.D.D. 15 C 4-1

6

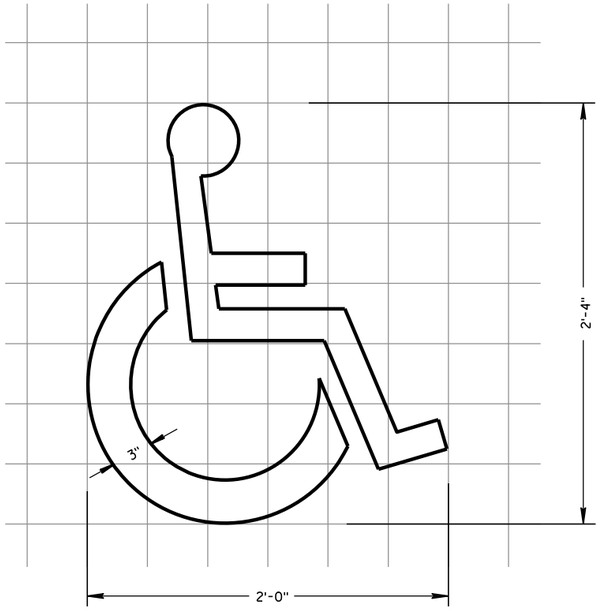
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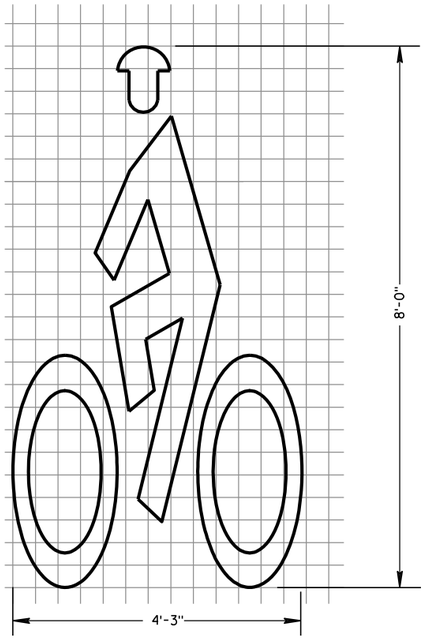
GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

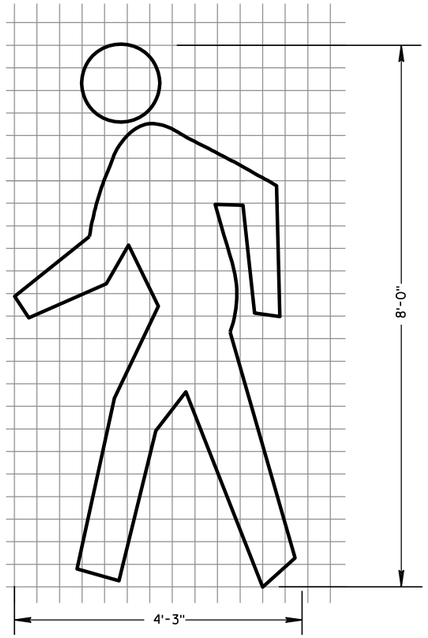
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.

A DETAILED DRAWING OF THE HANDICAPPED PARKING SYMBOL IS ILLUSTRATED IN THE "STANDARD HIGHWAY SIGNS MANUAL" BY THE FEDERAL HIGHWAY ADMINISTRATION.

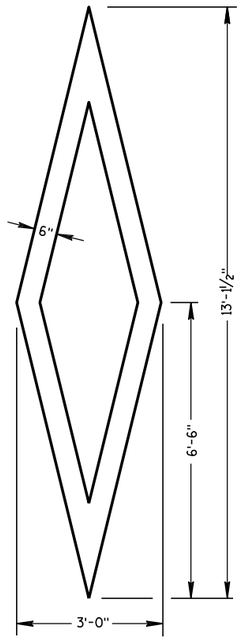




BIKE CROSSING SYMBOL



PEDESTRIAN SYMBOL



PREFERENTIAL LANE SYMBOL

PAVEMENT MARKING SYMBOLS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/1/11 — DATE

/S/ Thomas N Nathaam — STATE TRAFFIC ENGINEER

FHWA

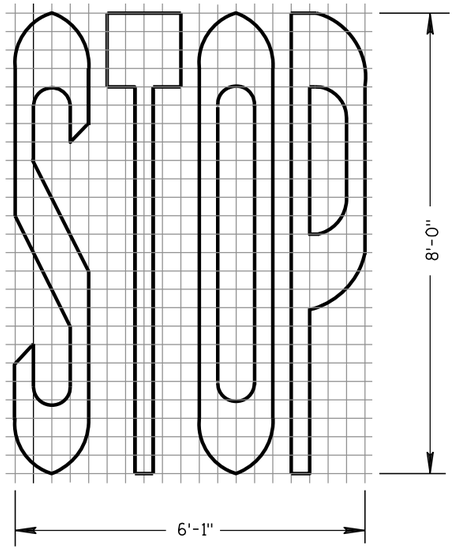
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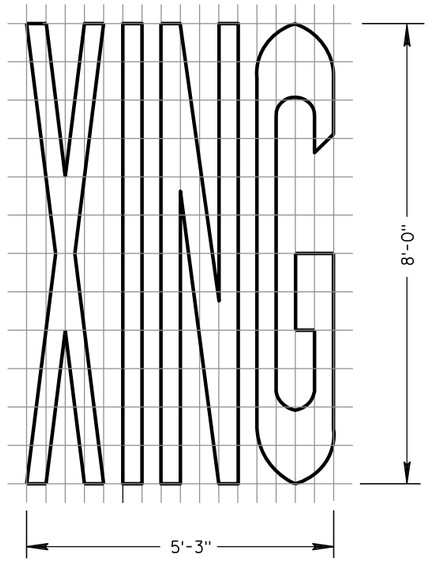
S.D.D. 15 C 7-12a

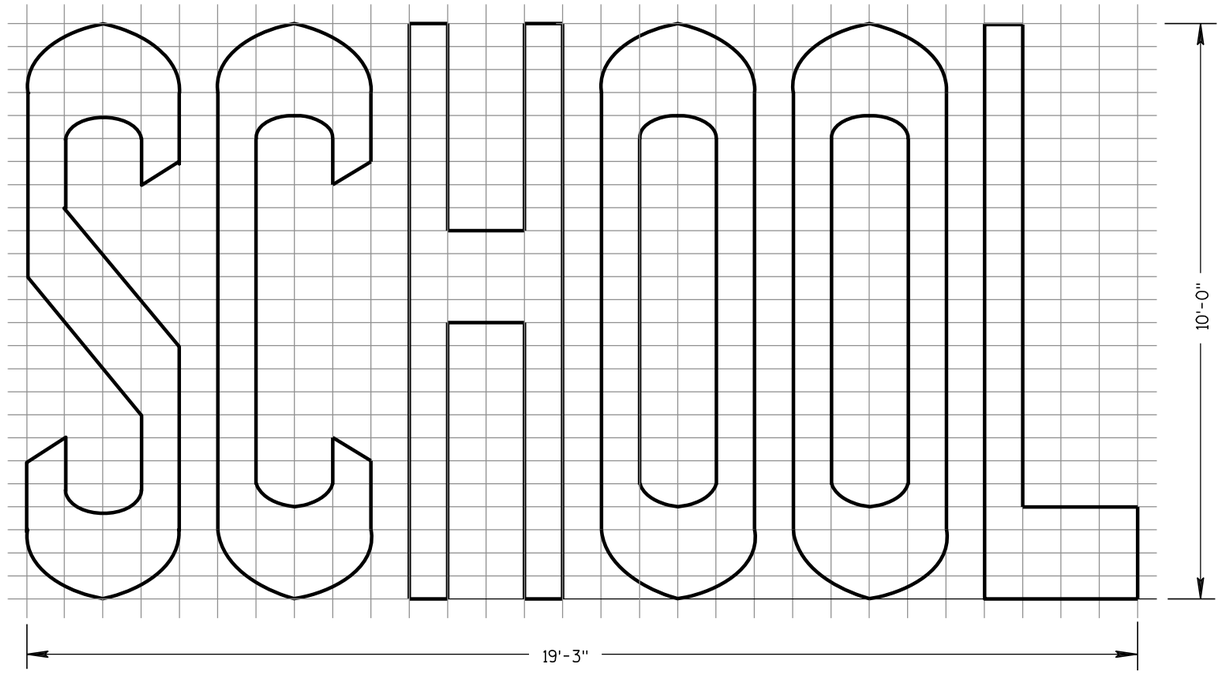
GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

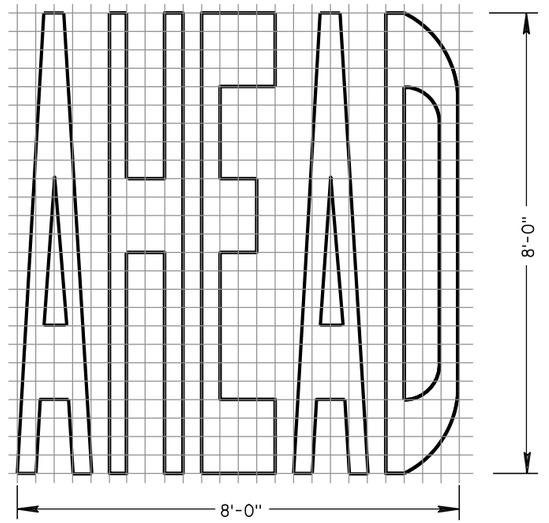
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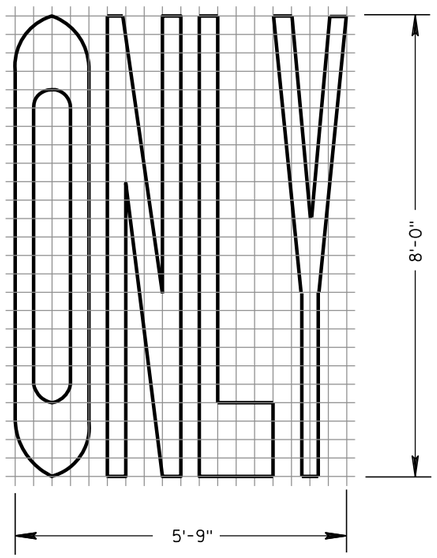


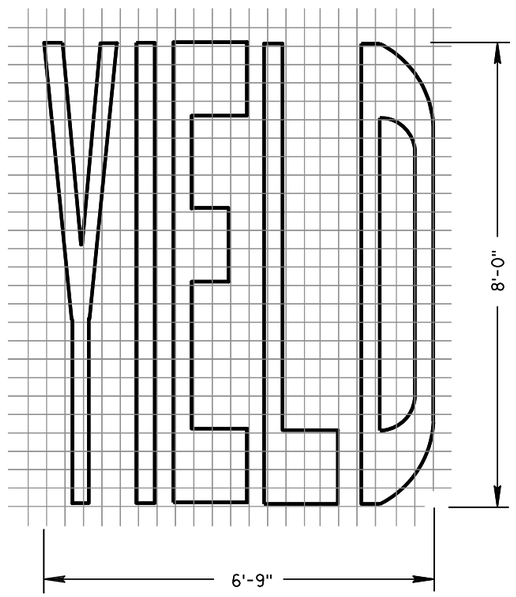


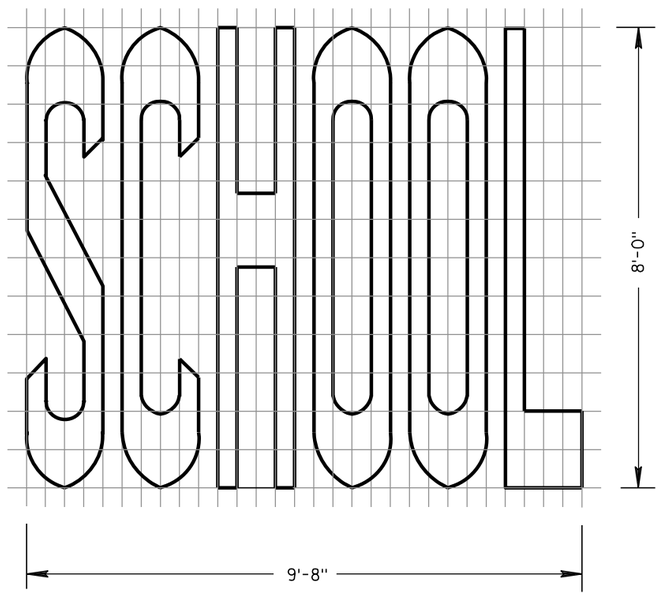


TWO-LANE









SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7-1-11 — DATE

/S/ Thomas N. Nothohm — STATE TRAFFIC ENGINEER

492

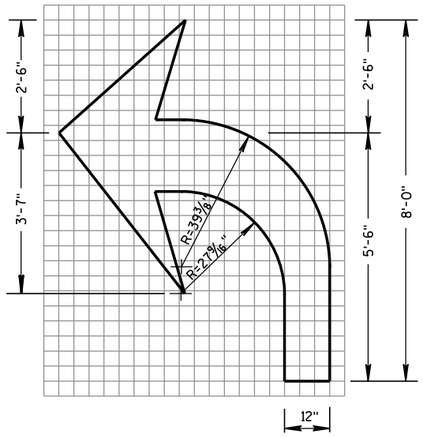
FHWA

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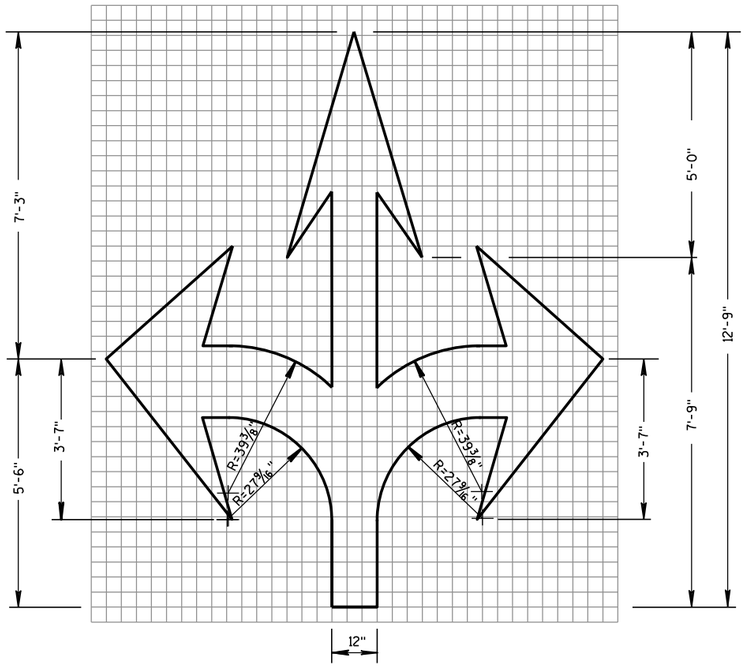
S.D.D. 15 C 7-12b

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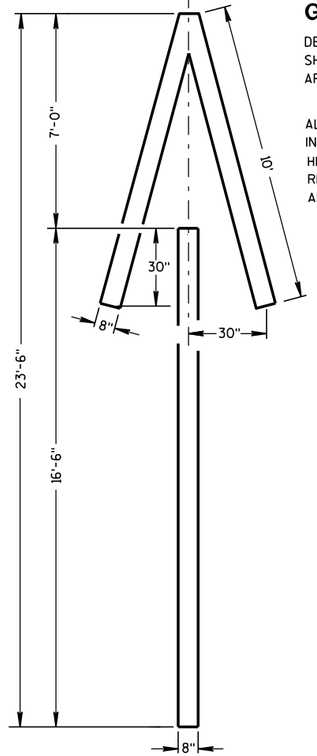
S.D.D. 15 C 7-12b



TYPE 2



TYPE 6

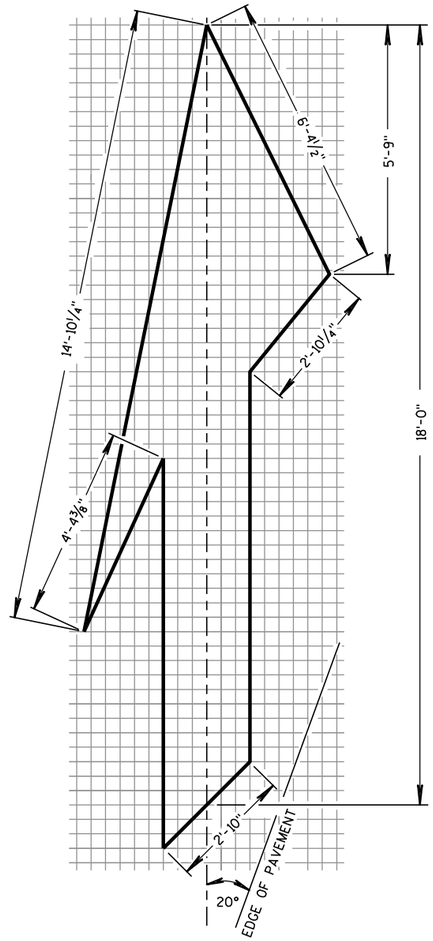


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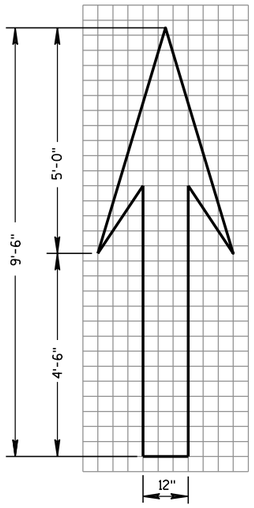
GENERAL NOTES

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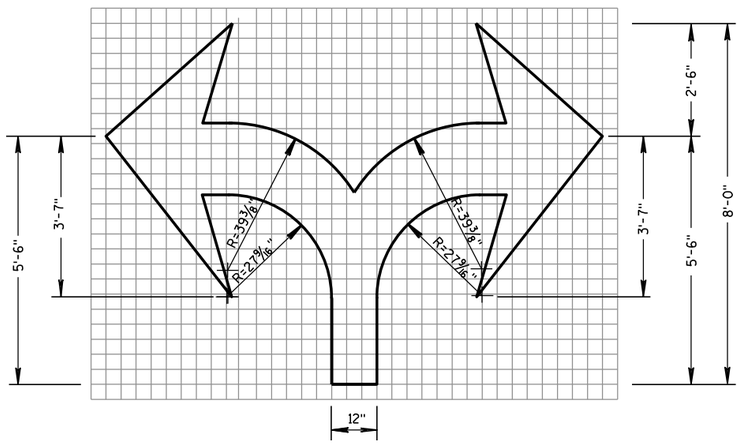
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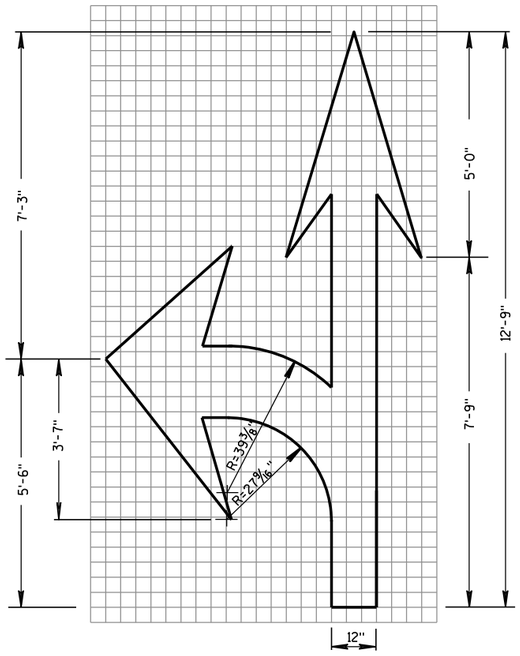
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/1/11 — DATE

/S/ Thomas N. Nothaam — STATE TRAFFIC ENGINEER

493 — SIGN

FHWA

6

S.D.D. 15 C 7-12c

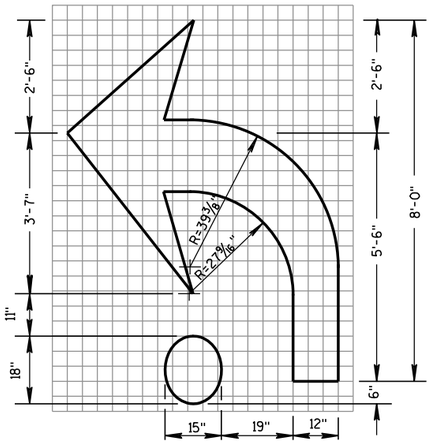
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S.D.D. 15 C 7-12c

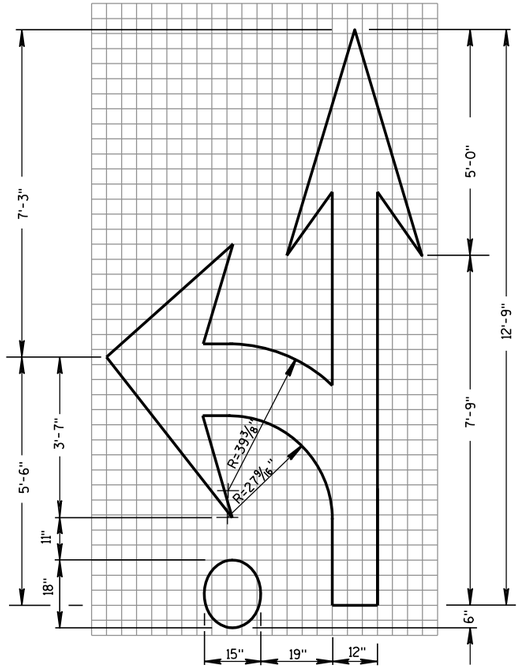
GENERAL NOTES

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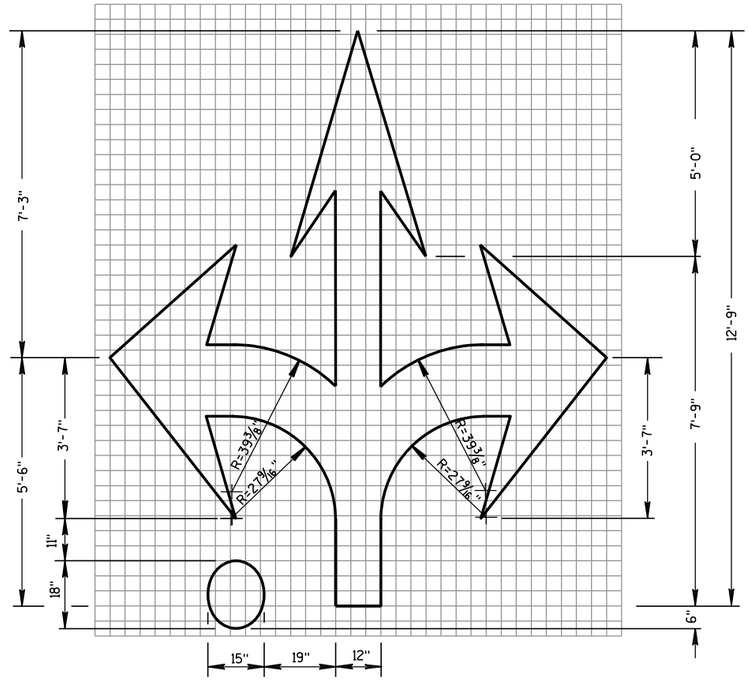
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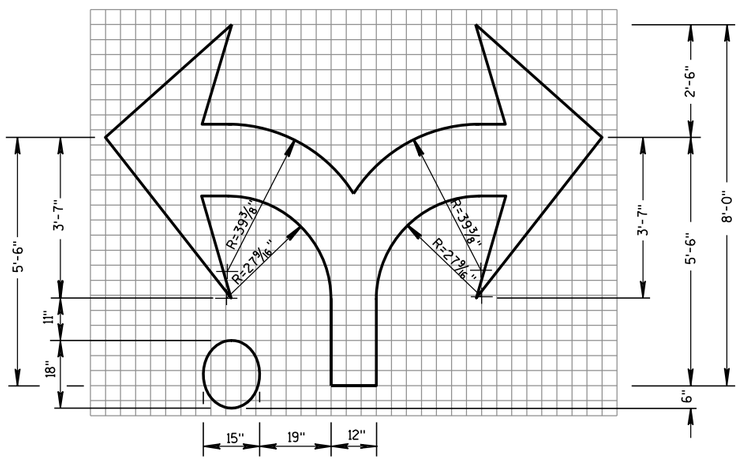
TYPE 2R



TYPE 3R



TYPE 6R



TYPE 7R

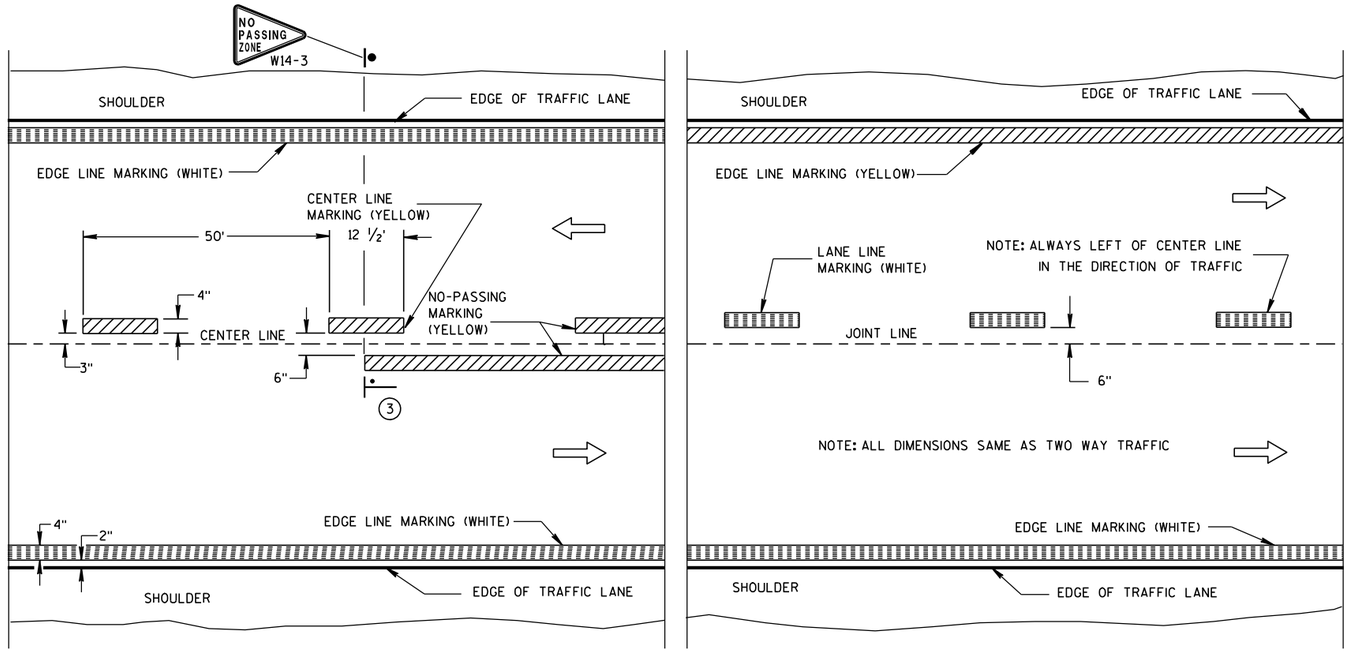
ROUNDABOUT ARROWS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 7/1/11 DATE	/S/ Thomas N. [illegible] STATE TRAFFIC ENGINEER
FHWA	

6

S.D.D. 15 C 7-12d

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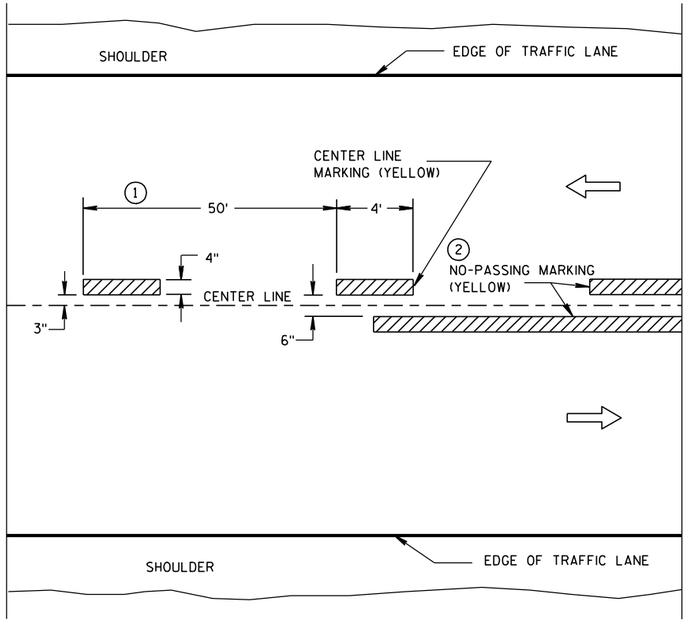
S.D.D. 15 C 7-12d



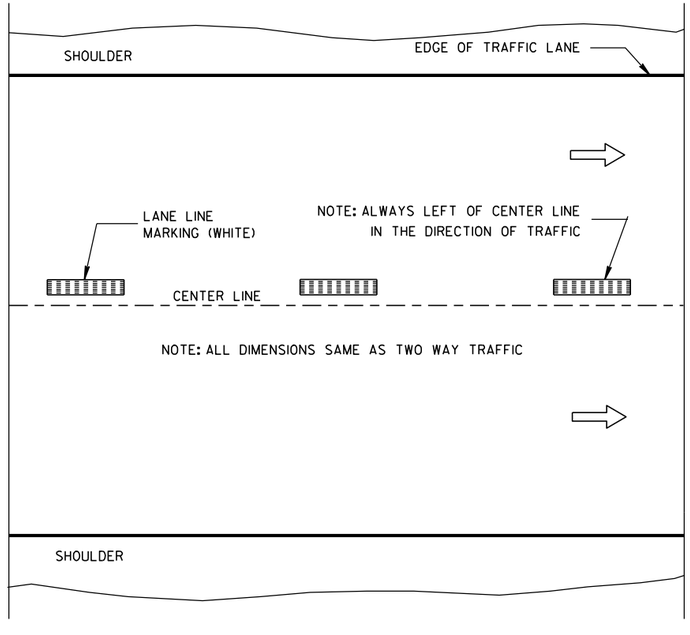
TWO WAY TRAFFIC

ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING

(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

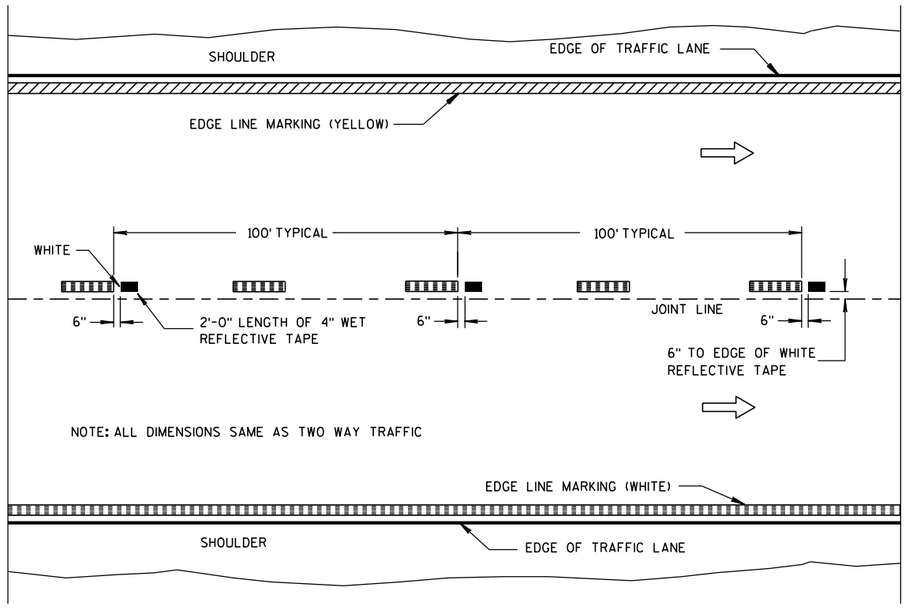
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

1. HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
2. NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.
3. NO PASSING ZONE MARKINGS ARE PLACED ACCORDING TO "T" MARKINGS. IF EXISTING NO PASSING ZONE W14-3 SIGNS ARE BEYOND 50 FEET IN EITHER DIRECTION, THE SIGNS SHALL BE MOVED TO THE "T" MARKINGS.

NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



WET REFLECTIVE TAPE SUPPLEMENT TO
SPRAYED OR NON WET REFLECTIVE TAPE LANE LINE

LEGEND

"T" MARKING

POST MOUNTED SIGN

PAVEMENT MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

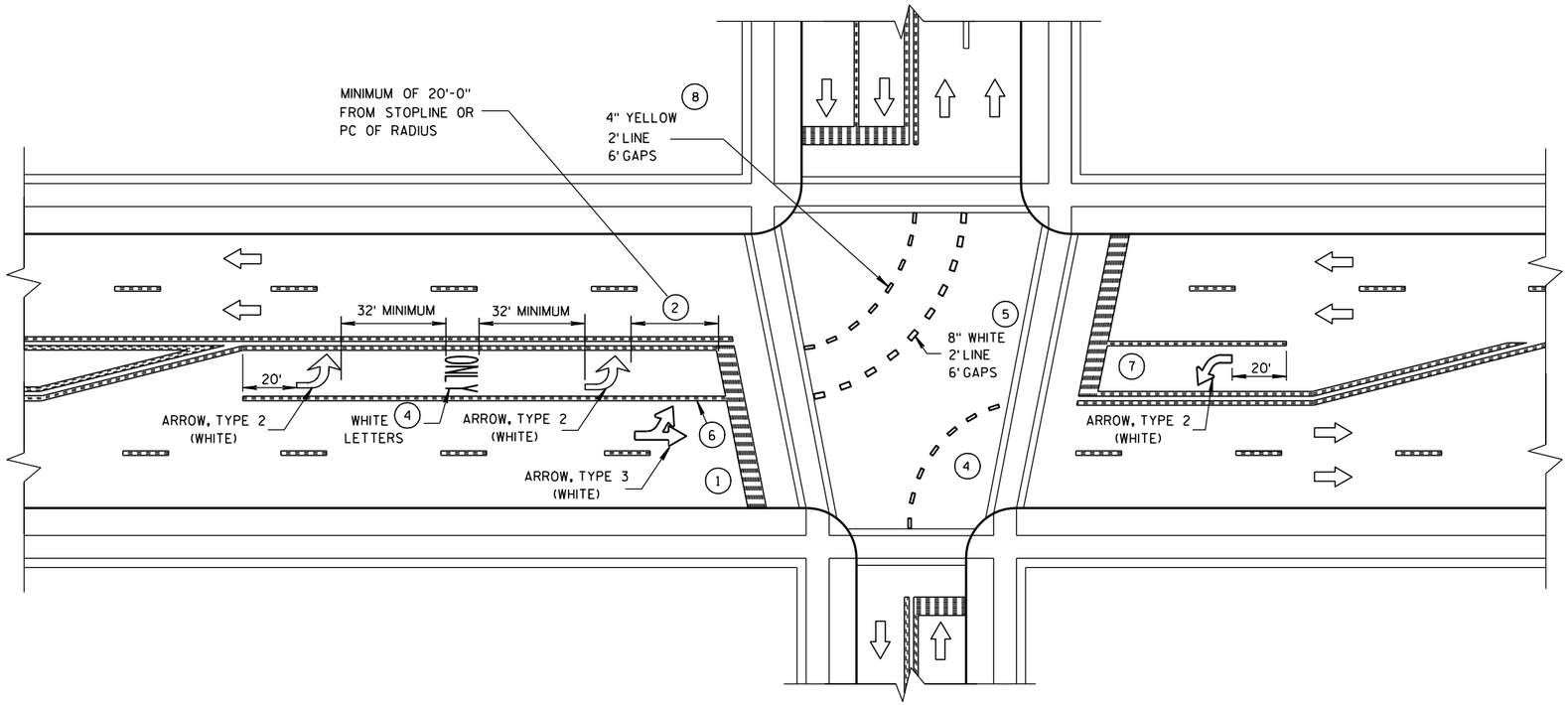
APPROVED
6-23-11 DATE
/S/ Thomas N. Notbohm
STATE TRAFFIC ENGINEER
495 DESIGN
FHWA

6

S.D.D. 15 C 8-14a

6

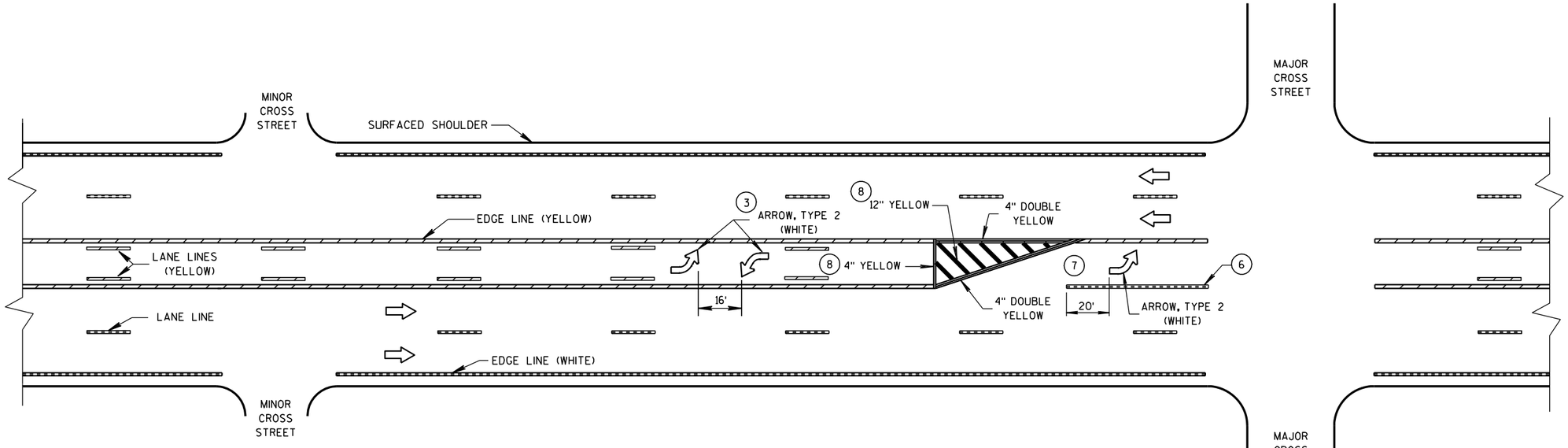
S.D.D. 15 C 8-14a



GENERAL NOTES

1. STOP BAR IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
2. DISTANCE MAY BE ADJUSTED TO ACCOMODATE SHORT LEFT TURN LANES. AS APPROVED BY THE ENGINEER.
3. A SET OF ARROWS IS REQUIRED EVERY 400' OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
4. ADD EXTRA ARROW AND ONLY PER 160' OR WHEN ON A CURVE.
5. 8" WHITE WITH 2' LINE 6' GAPS FOR DUAL TURN LANE.
6. 8" WHITE
7. ADD SECOND ARROW WHEN TURN BAY IS GREATER THAN OR EQUAL TO 108'.
8. REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL



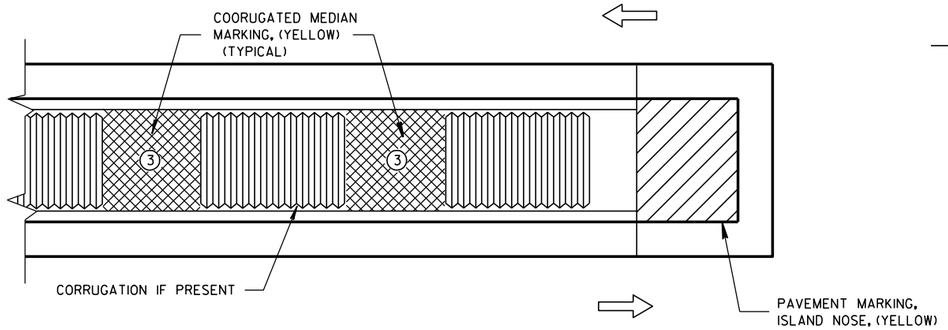
TWO WAY LEFT TURN LANE

PAVEMENT MARKING
(LEFT TURN LANE)

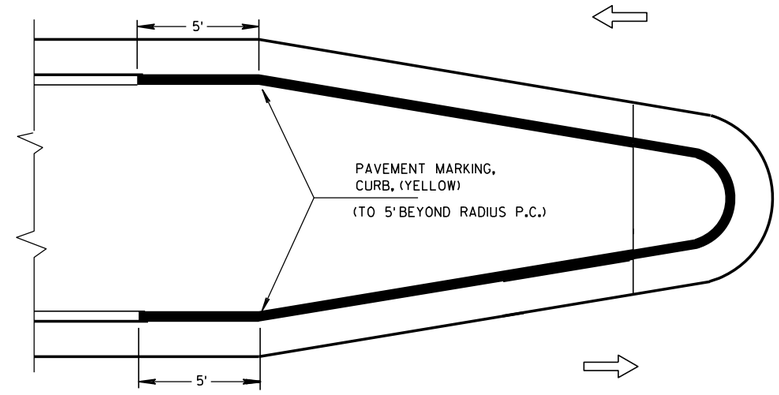
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

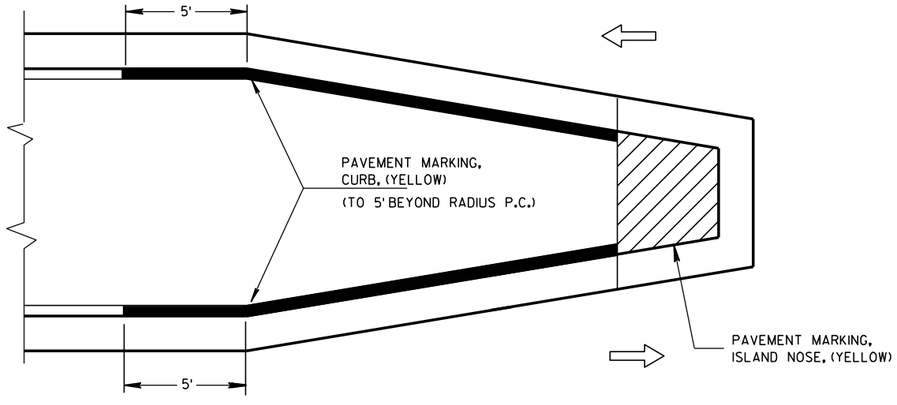
S.D.D. 15 C 8-14e



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

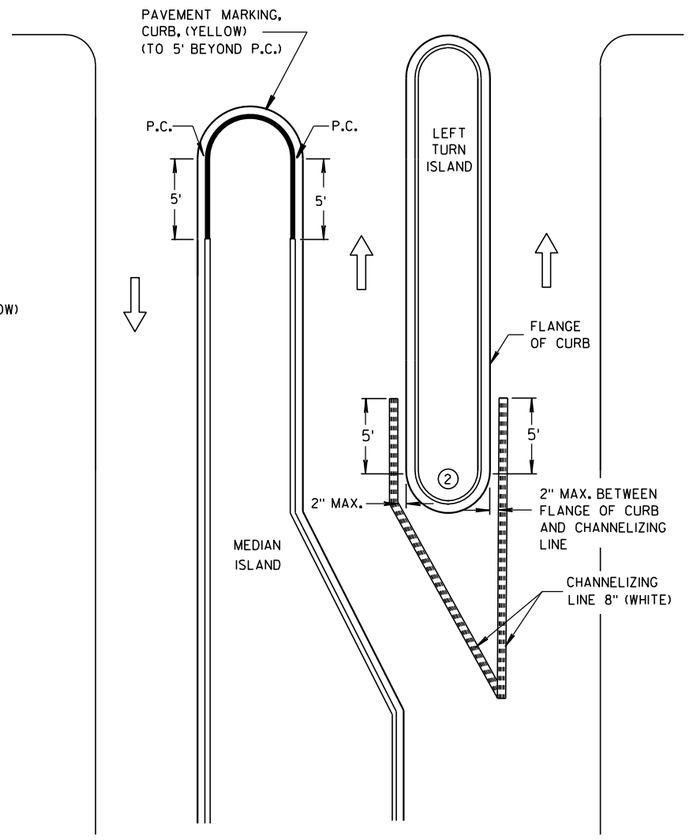


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

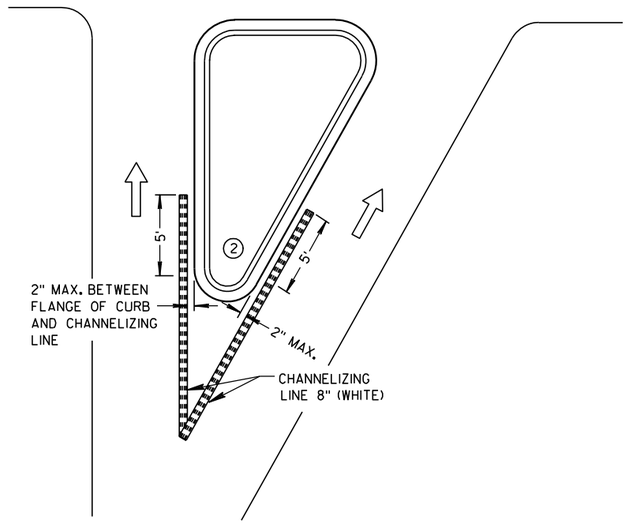
TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS



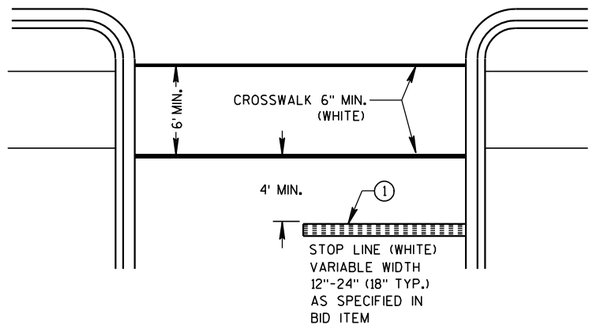
LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

1. STOP LINE IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
2. DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.
3. WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.



RIGHT TURN ISLAND



STOP LINE AND CROSSWALK

LEGEND

- ISLAND NOSE MARKING
- CURB MAKING
- CORRUGATED MEDIAN MARKING
- DIRECTION OF TRAVEL

PAVEMENT MARKING (ISLANDS, STOP LINE & CROSS WALK)

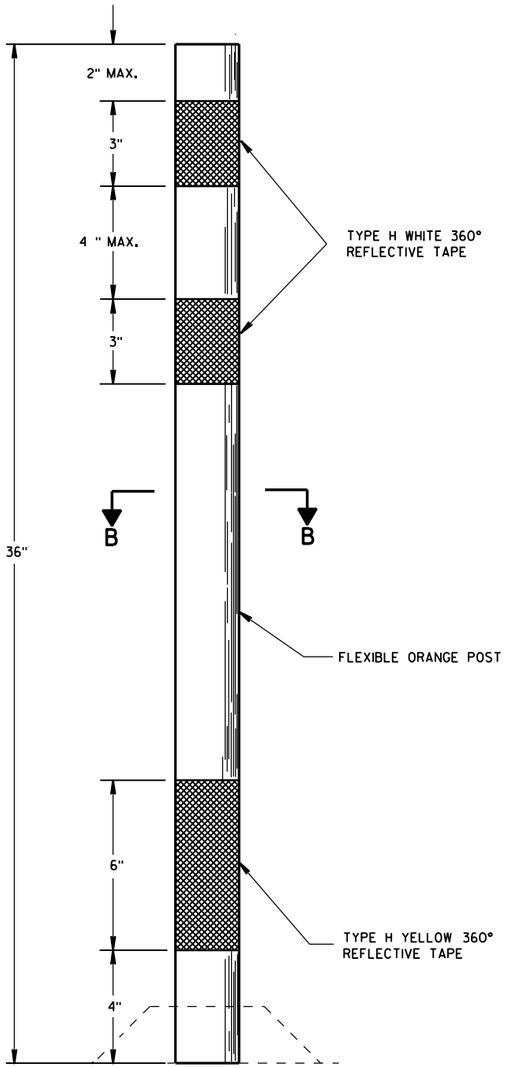
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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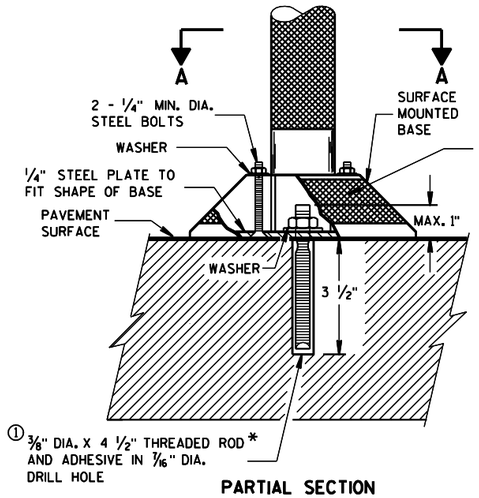
S.D.D. 15 C 8-14f

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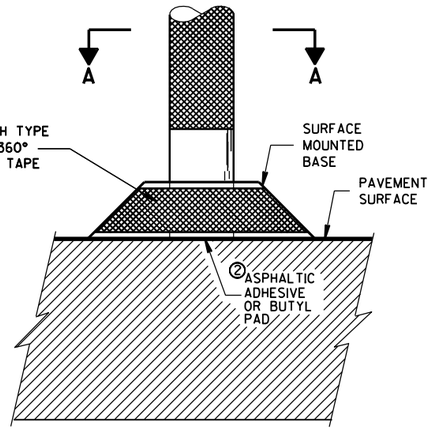
S.D.D. 15 C 8-14f



FLEXIBLE TUBULAR MARKER POST



PARTIAL SECTION TO SHOW BOLTS



POST BASES ON NEW OR EXISTING PAVEMENT

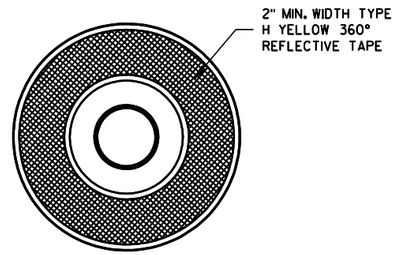
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

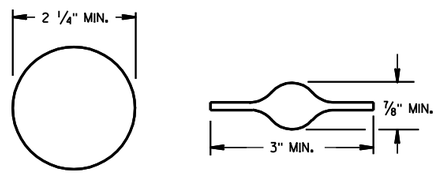
SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

① THREADED ROD SHALL BE MACHINED DOWN TO 0.280 INCH DIA. 1 1/4 INCHES FROM THE TOP.

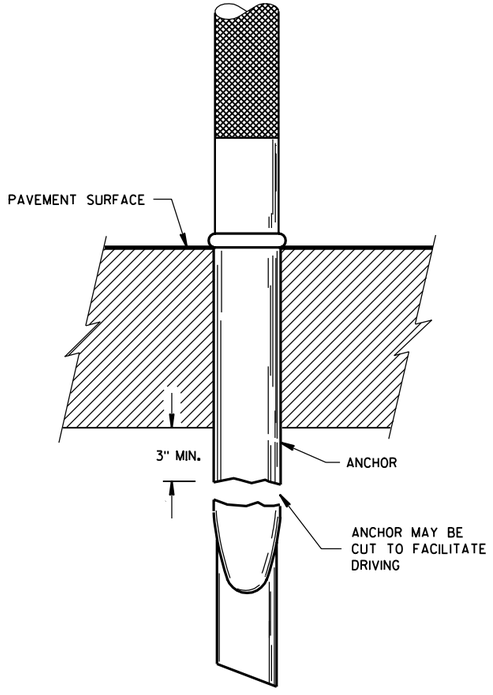
② THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

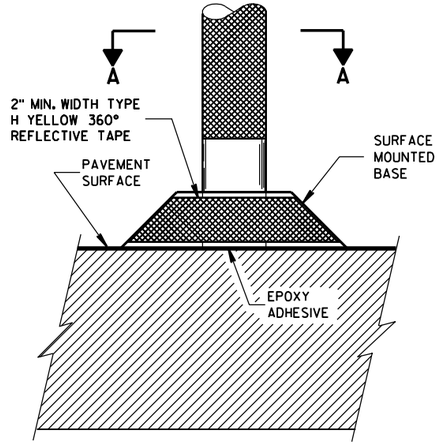


SECTION A-A
SURFACE MOUNTED BASE



SECTION B-B
ALTERNATIVE SHAPES





POST ANCHOR AND BASE ON PAVEMENT WHICH WILL BE REMOVED

FLEXIBLE TUBULAR MARKER POST, ANCHOR & BASES	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 2/17/94 DATE FHWA	Peter T. Rusch STATE TRAFFIC ENGINEER FOR HWYS

S.D.D. 15 C 11-5

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S.D.D. 15 C 11-5

TWO-LANE ROADWAY

SYMBOLS

WORK AREA

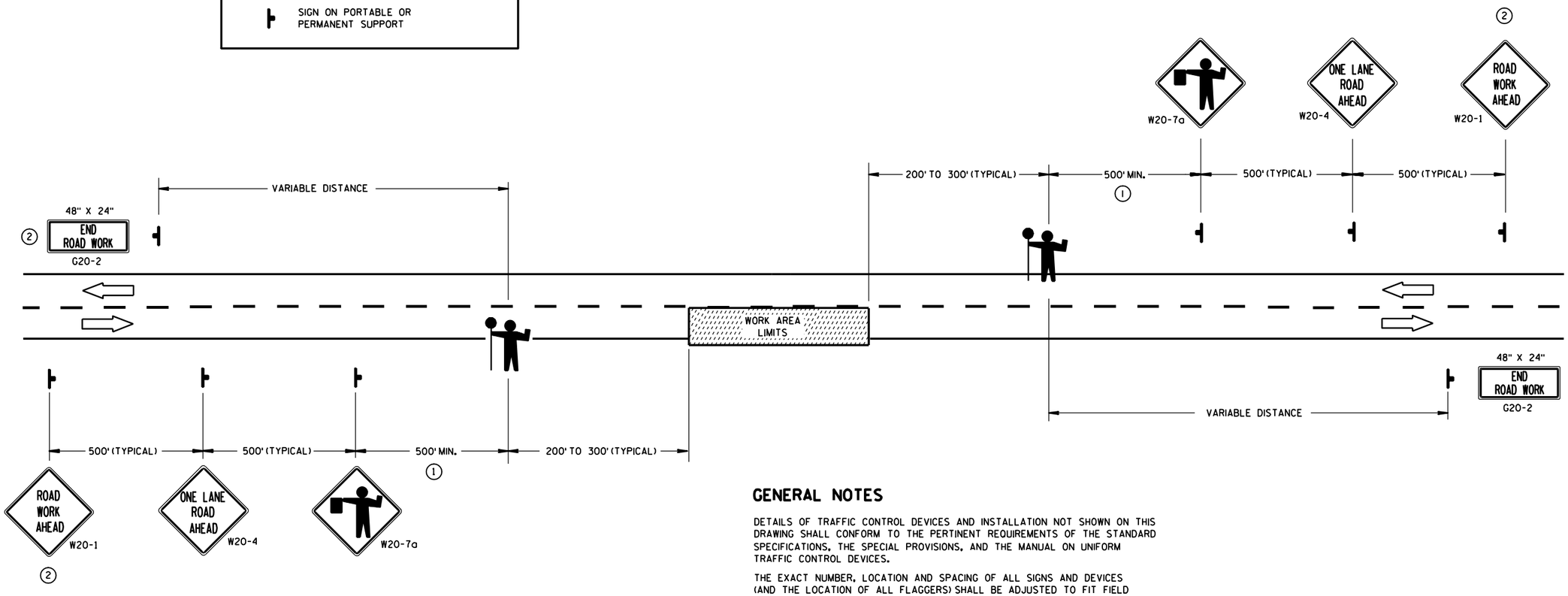
FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN ON PORTABLE OR PERMANENT SUPPORT



W3-4

USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 500' TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.



(1) FOR A MOVING WORK OPERATION,
SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, THE "FLAGGER AHEAD", THE "ROAD WORK AHEAD" AND THE ONE LANE ROAD AHEAD" SIGNS SHALL BE COVERED OR REMOVED AND THE HIGHWAY RESTORED TO NORMAL OPERATION.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/5/06 — DATE
/S/ Thomas N. Notbohm — STATE TRAFFIC ENGINEER OF DESIGN
FHWA

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S.D.D. 15 C 12-3

6

S.D.D. 15 C 12-3

GENERAL NOTES

ORIENT ANCHOR BOLTS IN FOOTING AND PROVIDE ANCHOR BOLT STICK OUT ABOVE TOP OF CONCRETE FOOTING BASE PER FABRICATION DRAWING.

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

USE 3" CLEAR FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

SIGN SUPPORTS SHALL BE LOCATED NORMAL TO ROADWAY.

THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

WELDING OF ANCHOR BOLTS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

BAR CAGE TO BE ASSEMBLED USING TIE WIRES ONLY, NO WELDING.

BASES (SHAFT) SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACK FILLING AROUND THE BASE. ANY REQUIRED BACKFILL SHALL BE WELL COMPACTED IN LAYERS OF 1 FOOT OR LESS. COMPACTION SHALL BE BY MECHANICAL MEANS. CARE SHALL BE TAKEN SO NO DAMAGE OCCURS TO THE CONCRETE BASE DURING COMPACTION.

EXCAVATION OF MATERIALS NOT OCCUPIED BY CONCRETE SHALL BE MINIMIZED TO REDUCE DISTURBANCE OF THE SURROUNDING SOILS.

THE BOTTOM OF THE DRILLED HOLE SHALL BE FIRM AND THOROUGHLY CLEANED SO NO LOOSE OR COMPRESSIBLE MATERIALS ARE PRESENT AT THE TIME OF THE CONCRETE PLACEMENT.

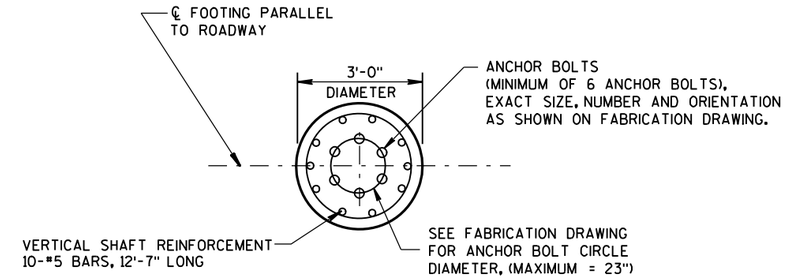
IF THE DRILLED HOLE CONTAINS STANDING WATER, THE CONCRETE SHALL BE PLACED USING A TREMIE TO DISPLACE THE WATER.

THE REINFORCEMENT AND ANCHOR BOLTS SHALL BE ADEQUATELY SUPPORTED IN THE PROPER POSITIONS SO NO MOVEMENT OCCURS DURING CONCRETE PLACEMENT.

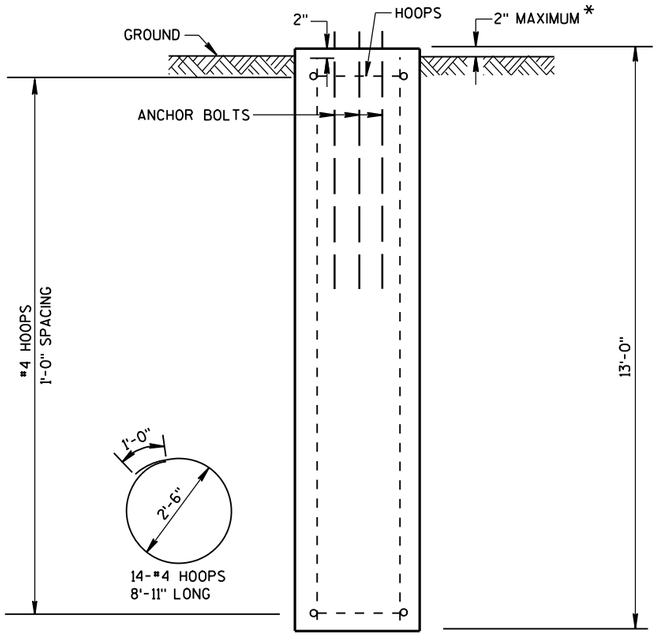
ANY DAMAGE TO THE CONCRETE BASE DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT THE ENGINEER'S DIRECTION, AT THE EXPENSE OF THE CONTRACTOR.

CONCRETE MASONRY	fc=3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	fy=60,000 p.s.i.
ANCHOR BOLTS	AASHTO M314 GRADE 55

THIS FOOTING HAS BEEN DESIGNED FOR SITES WHERE SOILS EXHIBIT A PHI-ANGLE GREATER THAN OR EQUAL TO 20 DEGREES (GRANULAR SOILS), OR A COHESION VALUE GREATER THAN OR EQUAL TO 350 PSF (COHESIVE SOILS).



PLAN VIEW



ELEVATION VIEW

* FOR OVERHEAD SIGN SUPPORTS THAT ARE INSTALLED ADJACENT TO SIDEWALKS, THE TOP OF THE BASE SHALL BE POURED FLUSH WITH THE GROUND.

CONCRETE - 3.4 C.Y. PER FOOTING
H.S. REINFORCEMENT - 215 LBS. PER FOOTING

36" DIAMETER FULL SPAN OVERHEAD SIGN SUPPORT BASE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4/17/09 — DATE

/S/ Thomas N. Notbohm — STATE TRAFFIC ENGINEER OF DESIGN

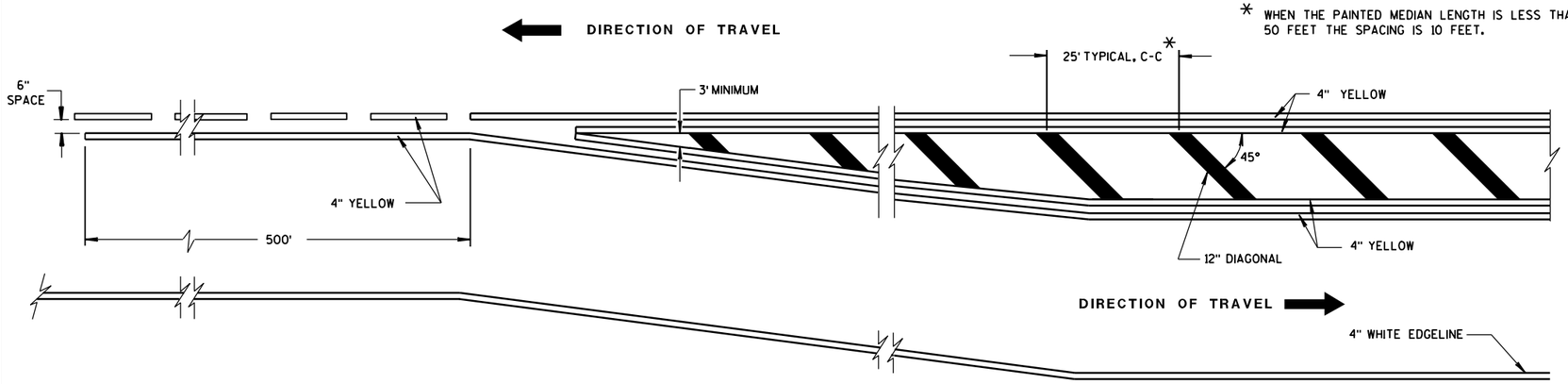
FHWA

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S.D.D. 15 C 15-3

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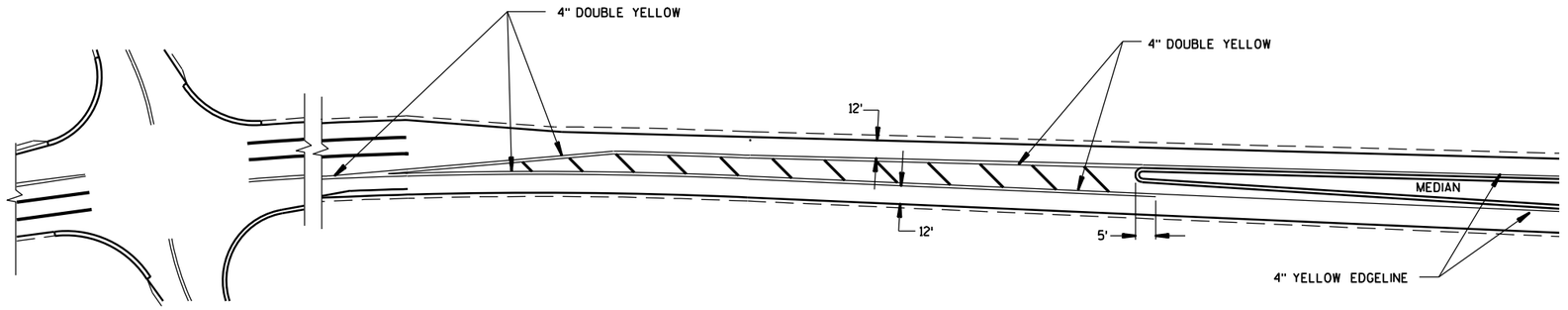
S.D.D. 15 C 15-3



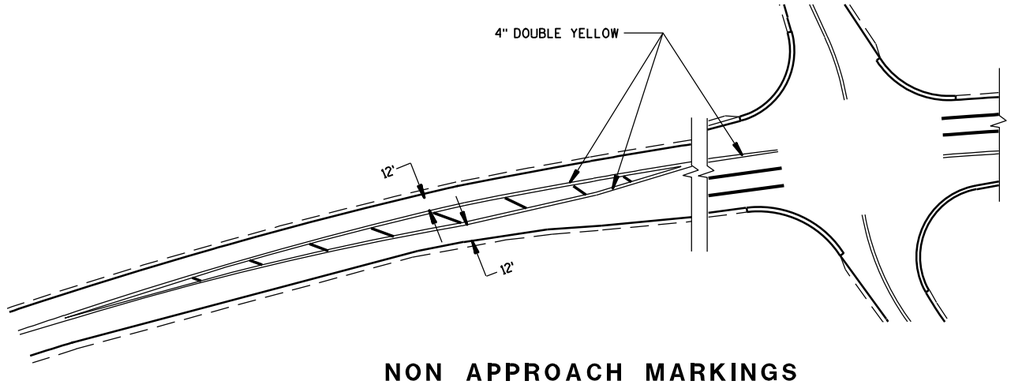
MEDIAN ISLAND DETAIL

GENERAL NOTE

DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON APPROACH MARKINGS

MEDIAN ISLAND MARKING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 2-5-09 DATE	/S/ Thomas N. Notbohm STATE TRAFFIC ENGINEER OF DESIGN
FHWA	

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S.D.D. 15 C 18-3

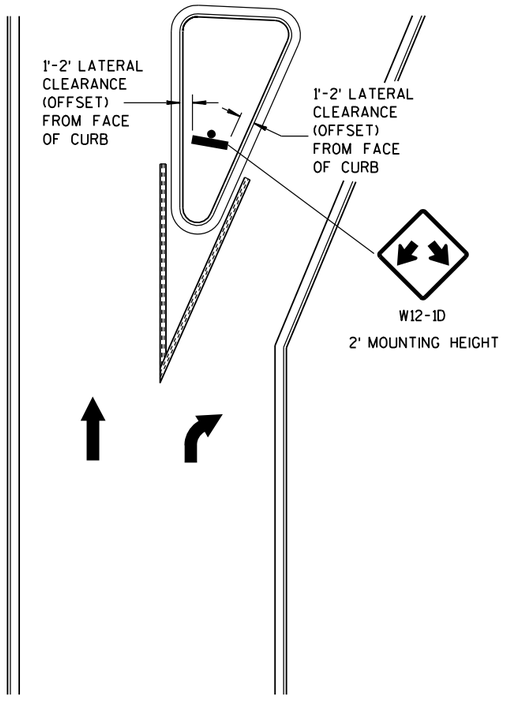
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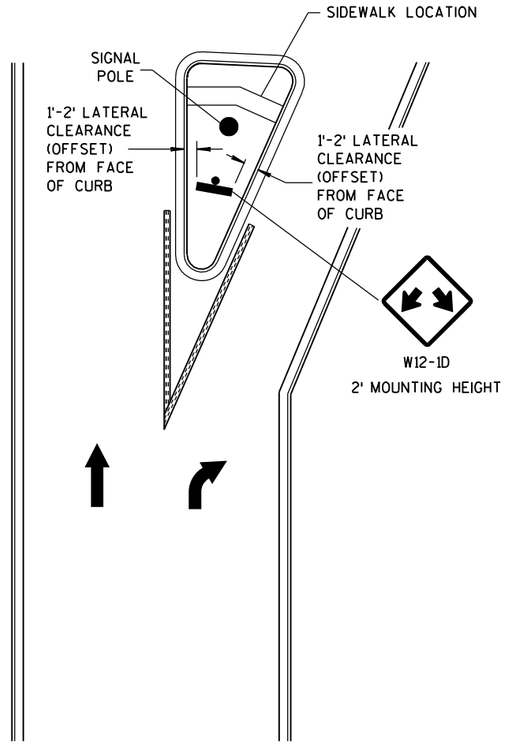
GENERAL NOTE

APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

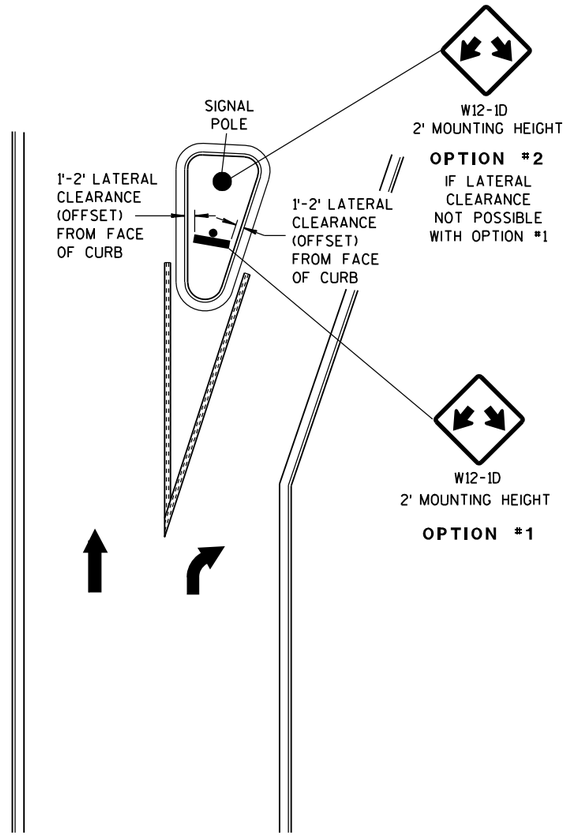
SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.



LARGE RIGHT TURN ISLAND



LARGE RIGHT TURN ISLAND
WITH SIGNAL POLE



SMALL RIGHT TURN ISLAND

DOUBLE ARROW WARNING SIGN PLACEMENT

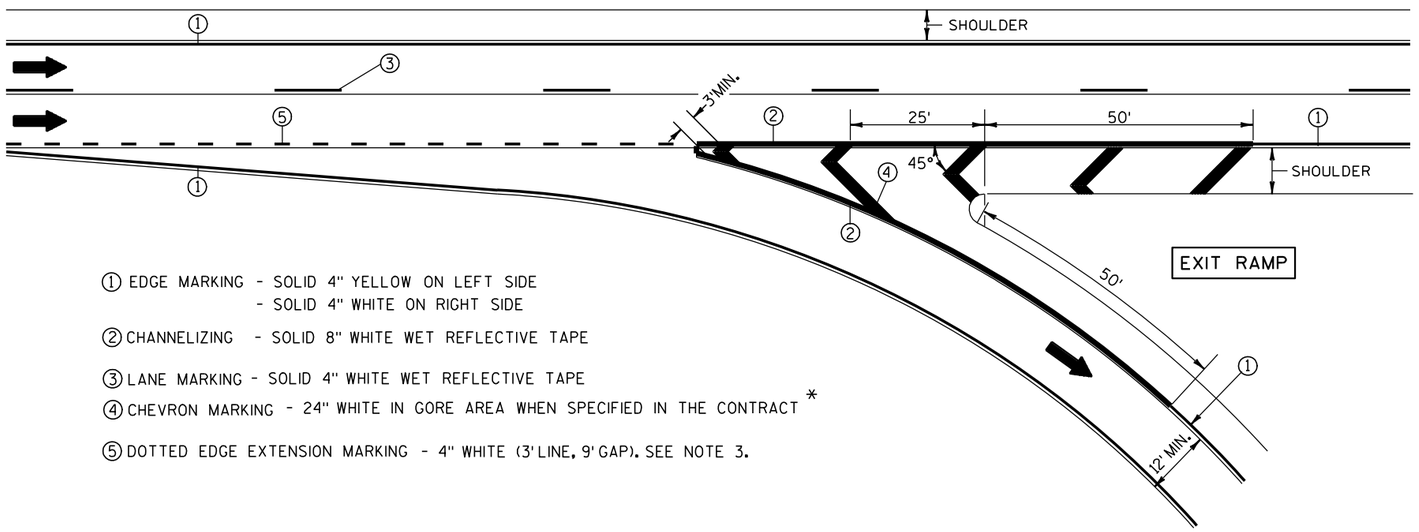
DOUBLE ARROW WARNING SIGN PLACEMENT	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 10-22-08 DATE FHWA	/S/ Thomas N. Notbohm STATE TRAFFIC ENGINEER OF DESIGN

6

S.D.D. 15 C 27-1

6

S.D.D. 15 C 27-1



① EDGE MARKING - SOLID 4" YELLOW ON LEFT SIDE
- SOLID 4" WHITE ON RIGHT SIDE

② CHANNELIZING - SOLID 8" WHITE WET REFLECTIVE TAPE

③ LANE MARKING - SOLID 4" WHITE WET REFLECTIVE TAPE

④ CHEVRON MARKING - 24" WHITE IN GORE AREA WHEN SPECIFIED IN THE CONTRACT *

⑤ DOTTED EDGE EXTENSION MARKING - 4" WHITE (3' LINE, 9' GAP). SEE NOTE 3.

NOTES:

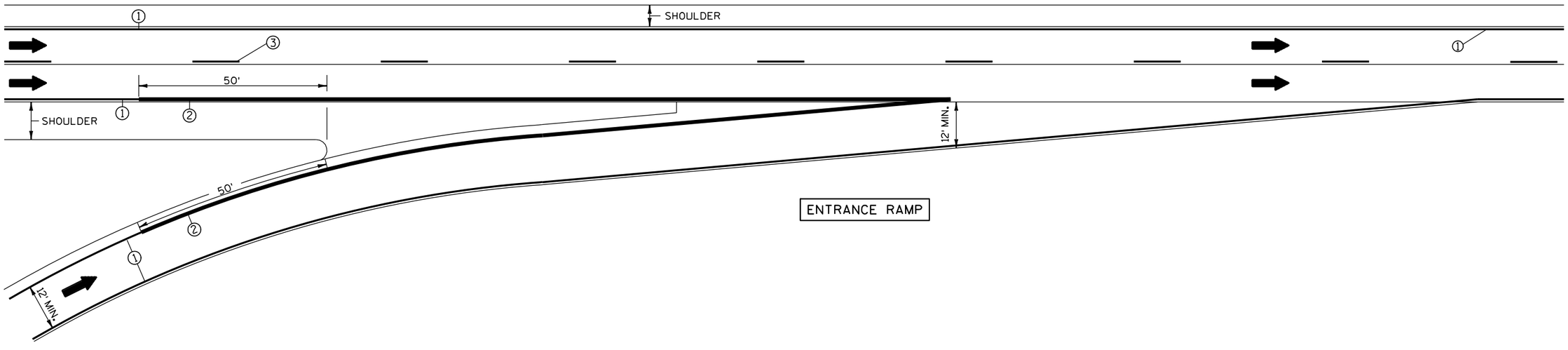
1. ARROWS SHOWN ON THIS MARKING PLAN DESIGNATE TRAFFIC FLOW, AND SHALL NOT BE TAKEN AS PROPOSED PAVEMENT MARKINGS.

2. PLACE WHITE EDGE OF TAPE 6" LEFT FROM JOINT.

3. 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE-GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.

4. RETRACE EXISTING DIAGONAL MARKINGS.

* REFER TO DESIGN NOTES.



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S.D.D. 15 C 31-1a

S.D.D. 15 C 31-1a

PAVEMENT MARKING
(RAMPS AND GORES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

LEGEND

- POST WITH ATTACHED SIGN
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- ARROW BOARD
- REMOVING PAVEMENT MARKING
- TEMPORARY PRECAST CONCRETE BARRIER
- DIRECTION OF TRAFFIC
- WORK ZONE

GENERAL NOTES :

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

(1) CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

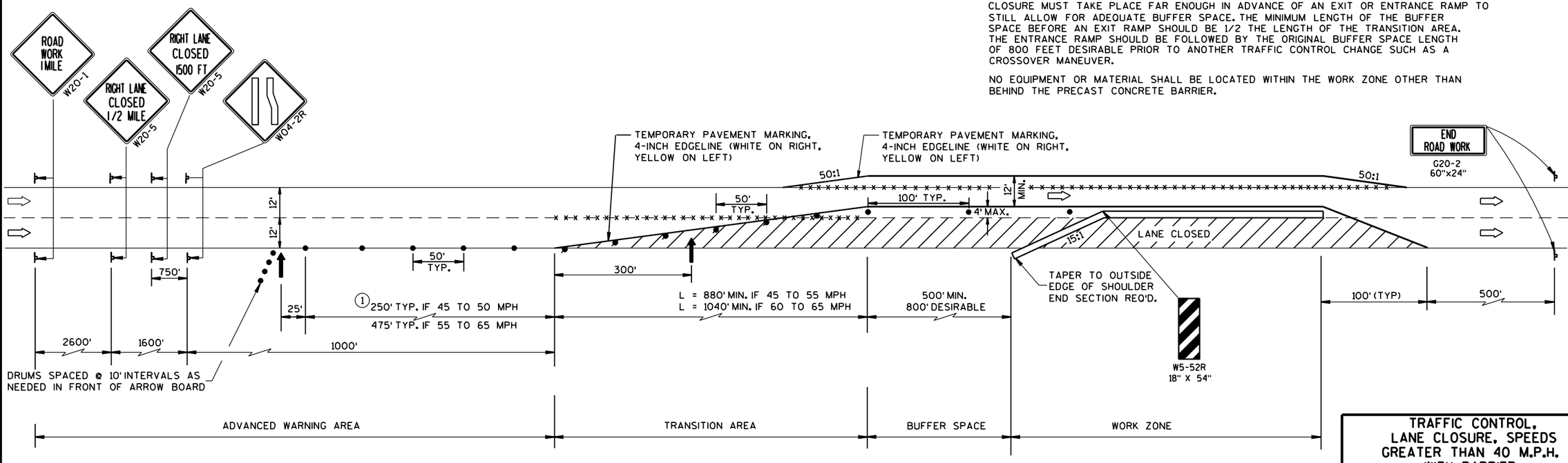
FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 7 CONTINUOUS DAYS AND NIGHTS.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

NO EQUIPMENT OR MATERIAL SHALL BE LOCATED WITHIN THE WORK ZONE OTHER THAN BEHIND THE PRECAST CONCRETE BARRIER.



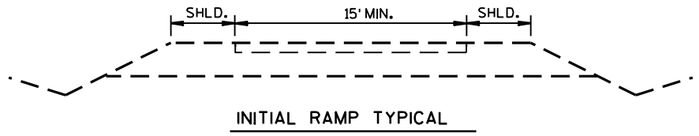
TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. WITH BARRIER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

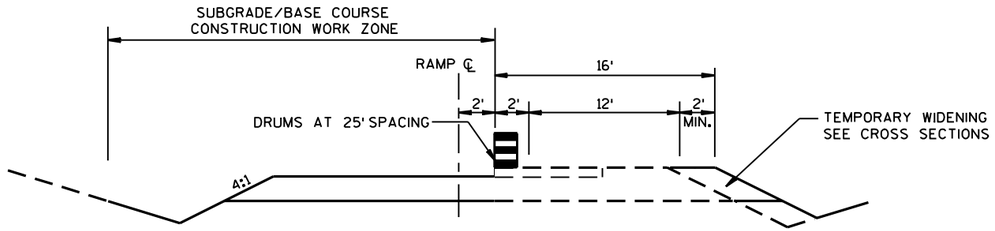
APPROVED
7-14-94
DATE
FHWA

Charles J. Spang
for DIRECTOR, OFFICE OF TRAFFIC

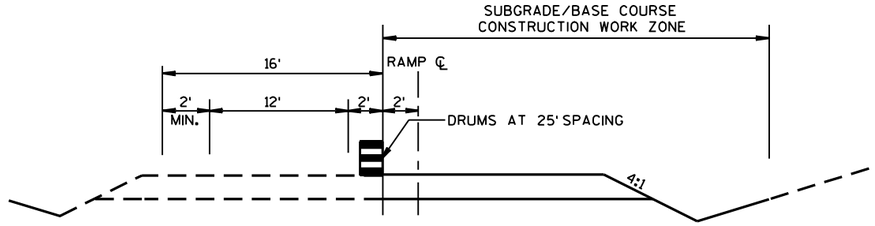
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S.D.D. 15 D 3-1



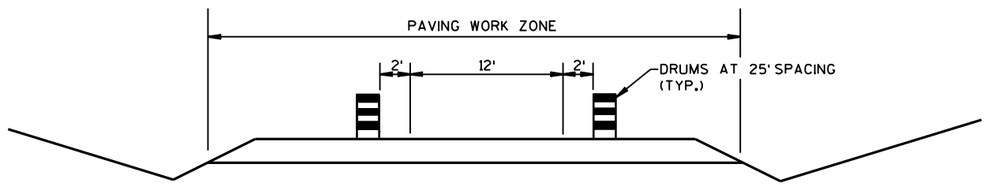
INITIAL RAMP TYPICAL



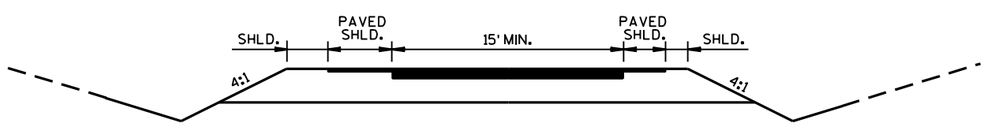
STAGE I - CONSTRUCTION TO SUBGRADE, LEFT



STAGE II - CONSTRUCTION TO SUBGRADE, RIGHT



STAGE III - TRAFFIC ON BASE COURSE



STAGE IV - PAVING

GENERAL NOTES :

WORK SHALL BE SCHEDULED FOR ALL STAGES TO MINIMIZE INCONVENIENCE TO THE TRAFFIC USING THE RAMP WHILE IT IS ONLY BASE COURSE.

IN STAGE III, A MINIMUM 12' LANE WIDTH SHALL BE DELINEATED WITH DRUMS ALONG BOTH EDGES AT ALL TIMES UNTIL PAVED AND PAVEMENT MARKINGS ARE PLACED.

TRAFFIC CONTROL
RAMP CONSTRUCTION STAGING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7-14-94
DATE

Charles J. Spang
for DIRECTOR, OFFICE OF TRAFFIC

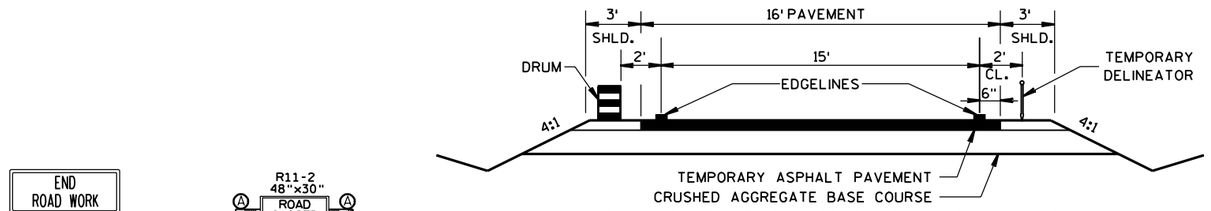
FHWA

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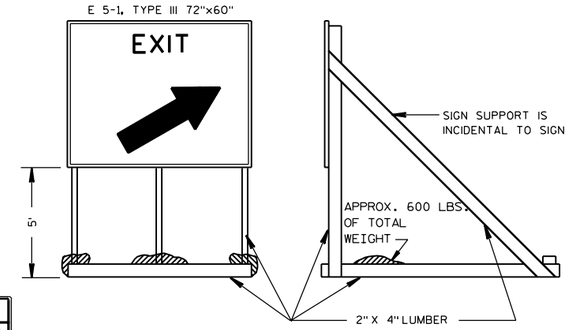
S.D.D. 15 D 4-1

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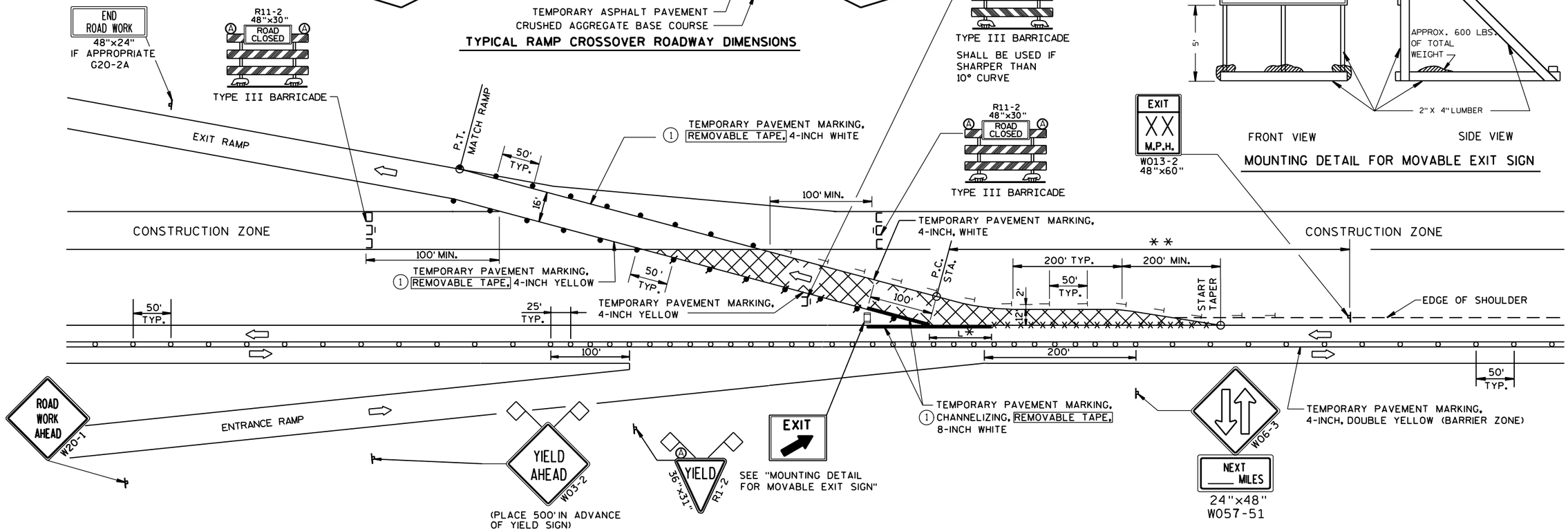
S.D.D. 15 D 4-1



TYPICAL RAMP CROSSOVER ROADWAY DIMENSIONS



MOUNTING DETAIL FOR MOVABLE EXIT SIGN



LEGEND

- 8' TYPE III BARRICADE WITHOUT/WITH ATTACHED SIGN
- POST WITH ATTACHED SIGN
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- TEMPORARY DELINEATOR - WHITE (STEEL POST W/SINGLE DELINEATOR)
- WARNING LIGHT, TYPE A
- TEMPORARY CROSSOVER ASPHALTIC PAVEMENT
- REMOVING PAVEMENT MARKINGS
- FLEXIBLE TUBULAR MARKER POST AND BASE
- FLAGS, 12" X 12", RED
- DIRECTION OF TRAFFIC

GENERAL NOTES :

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

(1) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE SHALL BE USED WHEN CROSSING PERMANENT ROADWAY SURFACES THAT WILL REMAIN AFTER USE OF CROSSOVER. OTHERWISE TEMPORARY PAVEMENT MARKING MAY BE USED.

TRAFFIC CONTROL FOR RAMP CROSSOVERS ARE TYPICAL FOR ALL CONSTRUCTION PHASES.

* LENGTH L SHALL BE REQUIRED WHEN TANGENT LENGTH OF EXIT RAMP PARALLEL TO MAINLINE EXCEEDS 300'. LENGTH SHALL BE EQUAL TO THE EXIT RAMP TANGENT LENGTH MINUS 300' OR AS APPROVED BY THE ENGINEER AND SHALL CHANGE TO ACCOMODATE PAVING GAPS.

** ADJUST EXIT RAMP SPEED AS NEEDED IN THE FIELD. DISTANCE TO SIGN LOCATION SHALL ALSO BE PLACED ACCORDING TO TABLE.

WORK ALONG EDGES OF RAMP SHALL MAINTAIN A 10 FOOT AREA CLEAR OF PHYSICAL OBSTRUCTIONS SUCH AS DROP OFFS FROM PAVEMENT REMOVAL OR BROKEN CONCRETE CHUNKS DURING PAVEMENT REMOVAL. THESE AREAS SHALL BE LEVELED WITH TEMPORARY FILL TO PROTECT THE TRAVELING PUBLIC WHEN THE CONTRACTOR IS NOT WORKING ADJACENT TO THE CROSSOVER.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

** TABLE FOR ADVANCE WARNING SIGN PLACEMENT DISTANCE

POSTED SPEED	DESIRED SPEED AT CONDITION (MPH)				
MPH	10	20	30	40	50
45	350	300	250		
50	425	400	325	225	
55	500	475	400	300	
60	575	550	500	400	300
65	650	625	575	500	375

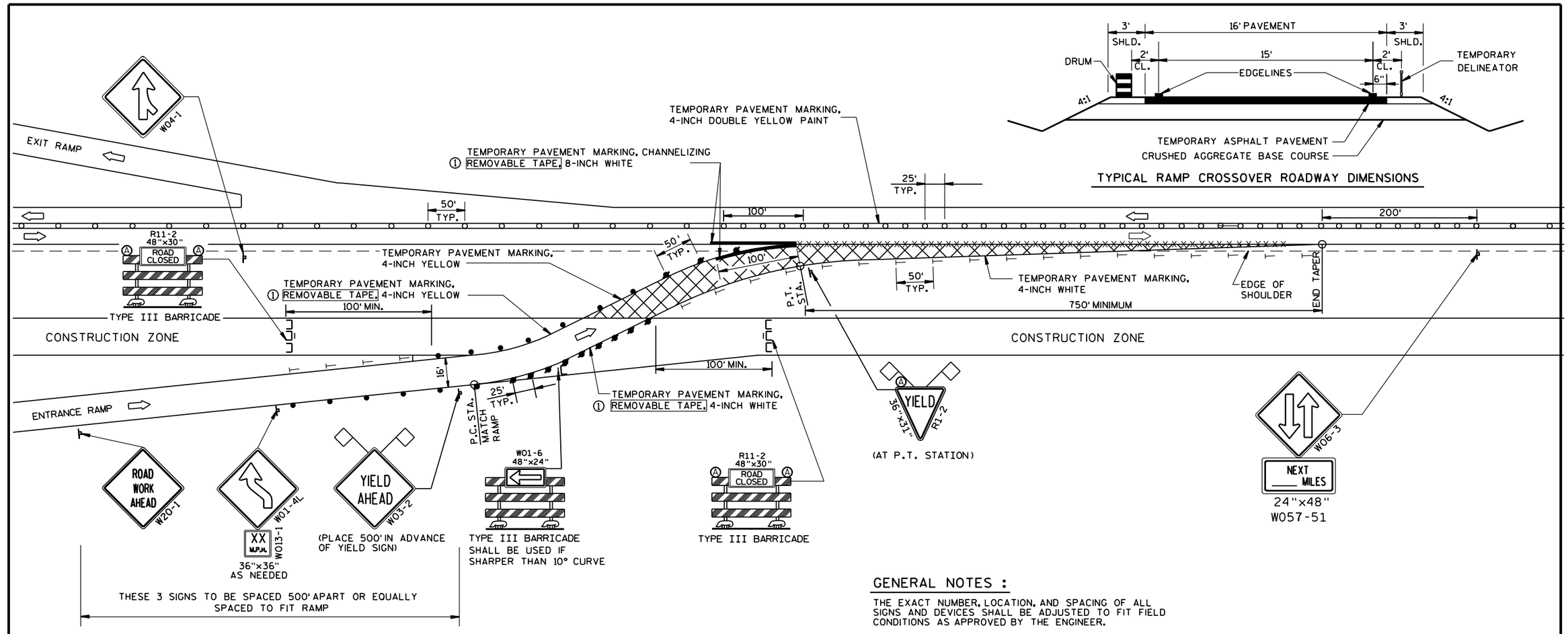
TRAFFIC CONTROL
TEMPORARY EXIT
RAMP CROSSOVER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12-4-95
DATE

Charles J. Spang
for DIRECTOR, OFFICE OF TRAFFIC

FHWA



TYPICAL RAMP CROSSOVER ROADWAY DIMENSIONS

LEGEND

- 8' TYPE III BARRICADE WITHOUT/WITH ATTACHED SIGN
- POST WITH ATTACHED SIGN
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- TEMPORARY DELINEATOR (STEEL POST W/SINGLE DELINEATOR) COLOR OF DELINEATOR SHALL MATCH THE COLOR OF THE RESPECTIVE EDGELINE MARKING
- Ⓐ WARNING LIGHT, TYPE A (SAME COLOR AS SIGN IT SUPPLEMENTS)
- TEMPORARY CROSSOVER ASPHALTIC PAVEMENT
- REMOVING PAVEMENT MARKINGS
- FLEXIBLE TUBULAR MARKER POST AND BASE
- FLAGS, 12" X 12", RED
- DIRECTION OF TRAFFIC

GENERAL NOTES :

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

① TEMPORARY PAVEMENT MARKING REMOVABLE, TAPE SHALL BE USED WHEN CROSSING PERMANENT ROADWAY SURFACES THAT WILL REMAIN AFTER USE OF CROSSOVER.

TRAFFIC CONTROL FOR RAMP CROSSOVERS ARE TYPICAL FOR ALL CONSTRUCTION PHASES.

WORK ALONG EDGES OF RAMP SHALL MAINTAIN A 10 FOOT AREA CLEAR OF PHYSICAL OBSTRUCTIONS SUCH AS DROP OFFS FROM PAVEMENT REMOVAL OR BROKEN CONCRETE CHUNKS DURING PAVEMENT REMOVAL. THESE AREAS SHALL BE LEVELED WITH TEMPORARY FILL TO PROTECT THE TRAVELING PUBLIC WHEN THE CONTRACTOR IS NOT WORKING ADJACENT TO THE CROSSOVER.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

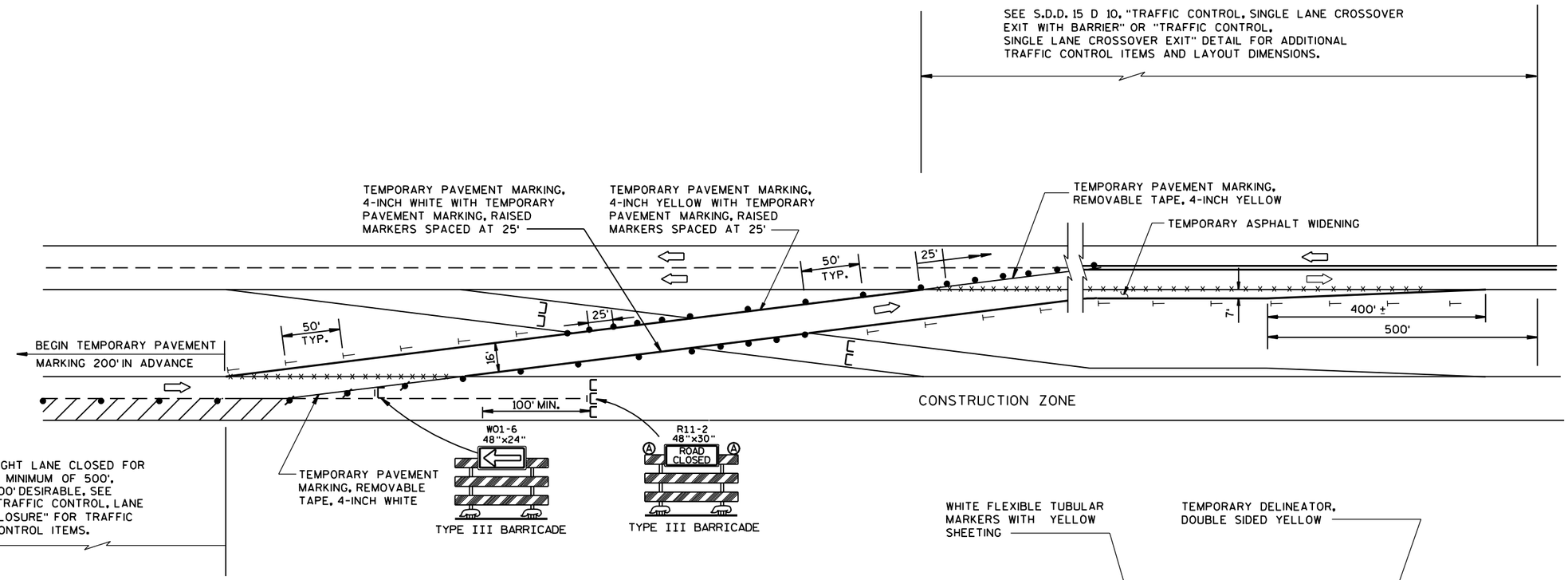
TRAFFIC CONTROL, TEMPORARY ENTRANCE RAMP CROSSOVER

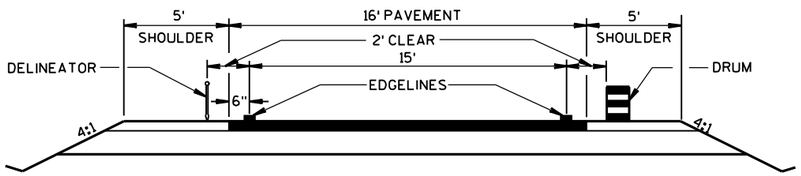
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12-4-95
DATE
Charles J. Spang
for DIRECTOR, OFFICE OF TRAFFIC
FHWA

S.D.D. 15 D 8-3

6
S.D.D. 15 D 8-3





TYPICAL CROSSOVER ROADWAY DIMENSIONS

LEGEND

- ⊏/I⊏ 8' TYPE III BARRICADE WITHOUT/WITH ATTACHED SIGN
- DRUM WITH WARNING LIGHTS, TYPE C
- DRUM
- TEMPORARY DELINEATOR (STEEL POST W/SINGLE DELINEATOR) COLOR OF DELINEATOR SHALL MATCH THE COLOR OF THE RESPECTIVE EDGELINE PAINT
- Ⓐ WARNING LIGHT, TYPE A
- ×-×-×-× REMOVING PAVEMENT MARKINGS
- TEMPORARY DELINEATOR (DOUBLE SIDED)
- FLEXIBLE TUBULAR MARKER AND BASE
- DIRECTION OF TRAFFIC

GENERAL NOTES :

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN PROPOSED SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

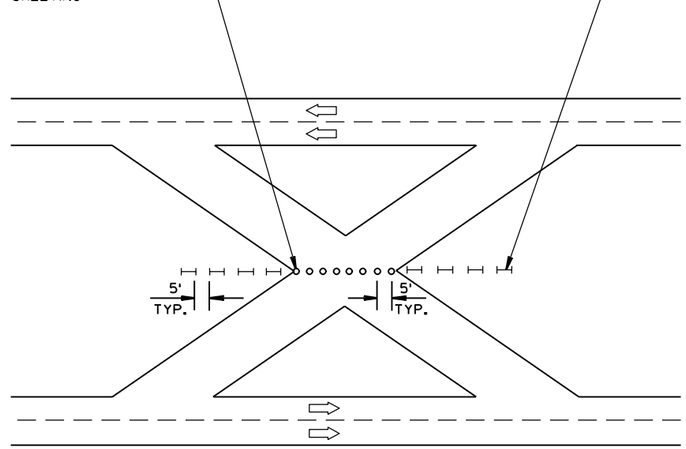
TEMPORARY PAVEMENT MARKING REMOVABLE TAPE SHALL BE USED WHEN CROSSING PERMANENT ROADWAY SURFACES THAT WILL REMAIN AFTER USE OF CROSSOVER AND TEMPORARY PAVEMENT MARKING WHERE USED.

ALL SIGNS ARE 48"×48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

REVERSE DEVICES WHEN OTHER LEG OF CROSSOVER IS IN USE.



PROTECTION OF CROSSOVER NOT IN USE
WHEN CONSTRUCTION IS NOT TAKING PLACE

TRAFFIC CONTROL,
SINGLE LANE CROSSOVER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10-22-96
DATE
Charles J. Spang
for DIRECTOR, OFFICE OF TRAFFIC
FHWA

S.D.D. 15 D 11-3

6

S.D.D. 15 D 11-3

LEGEND

- POST WITH ATTACHED SIGN
- POST WITH ATTACHED SIGN IN DRUM
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- ARROW BOARD
- 8' TYPE III BARRICADE
- REMOVING PAVEMENT MARKING
- DIRECTION OF TRAFFIC

GENERAL NOTES :

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

① CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

GENERAL NOTES CONTINUED:

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 7 CONTINUOUS DAYS AND NIGHTS.

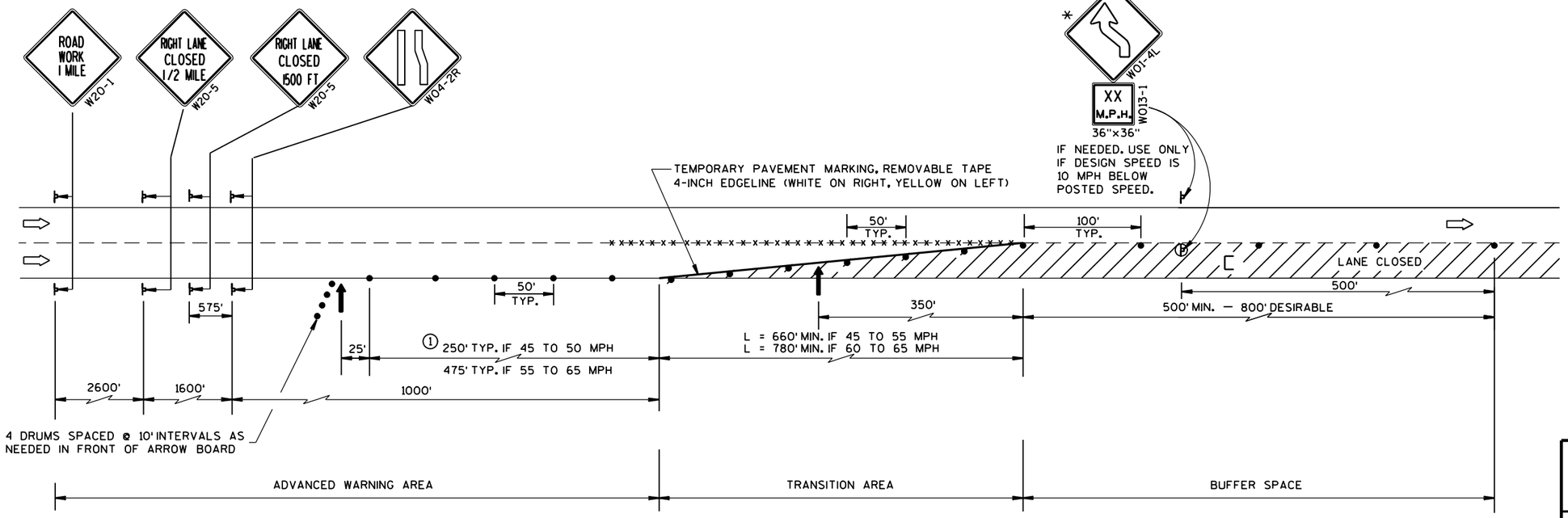
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

IF LANE CLOSURE IS MORE THAN 1 MILE, PLACE A TYPE III BARRICADE APPROXIMATELY EVERY 1/4 MILE ACROSS THE CLOSED LANE TO HELP ENFORCE THE DRUM LINE.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

* THE LEFT REVERSE CURVE SIGN (WO1-4L) IS ONLY REQUIRED WHEN THIS DETAIL IS USED IN COMBINATION WITH "SINGLE LANE CROSSOVER" DETAIL.



TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8-7-95
DATE

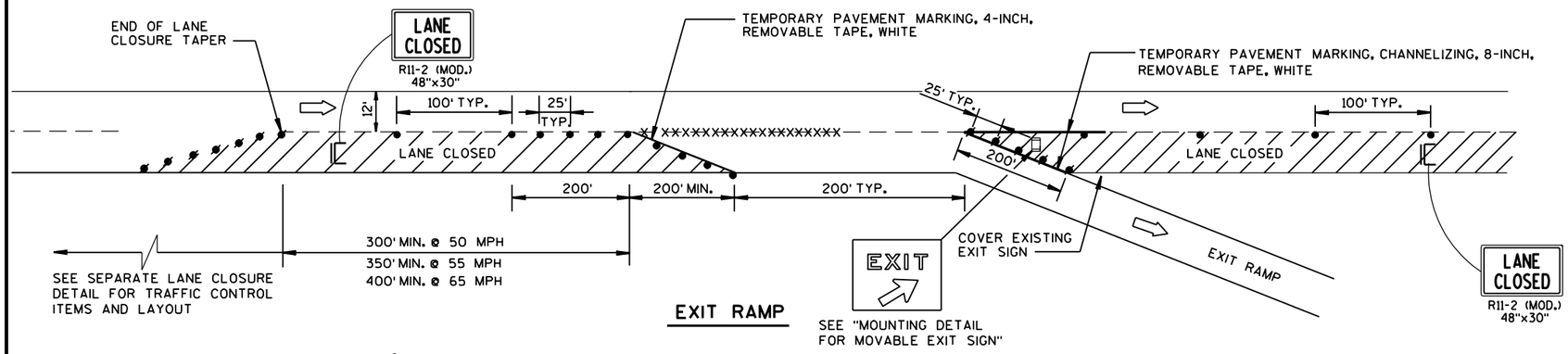
Charles J. Spacy
for DIRECTOR, OFFICE OF TRAFFIC

FHWA

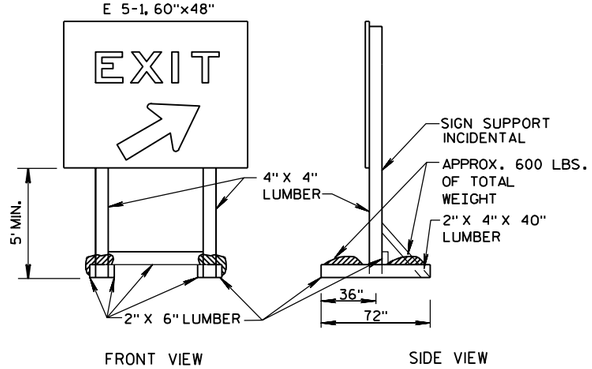
S.D.D. 15 D 12-2

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S.D.D. 15 D 12-2

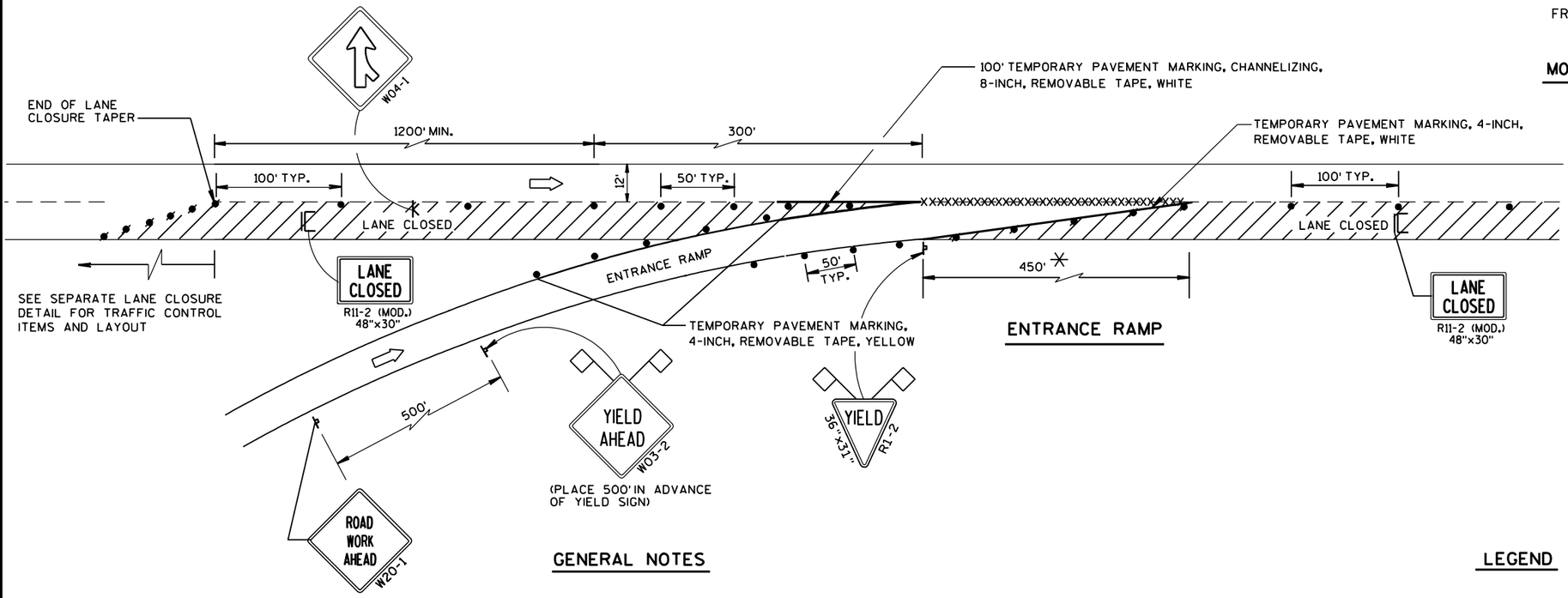


EXIT RAMP



NOTE: ALL LUMBER DIMENSIONS ARE NOMINAL

MOUNTING DETAIL FOR MOVABLE EXIT SIGN



ENTRANCE RAMP

GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH THE ENGINEER.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2 (MOD.) "LANE CLOSED" SIGNS.

YIELD SIGN AND WARNING SIGNS ON ENTRANCE RAMP ARE ALSO APPROPRIATE FOR CLOSURE OF THE MAINLINE LEFT LANE. OMIT THE YIELD SIGN IF MORE THAN ONE LANE REMAINS OPEN ON THE MAINLINE AND THE RAMP TAPER IS AT LEAST AS LONG AS THE NORMAL ENTRANCE RAMP TAPER AT THE SITE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE ENTRANCE RAMP AND MAINLINE TRAFFIC.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 7 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

✳ LENGTH OF OPENING MAY BE REDUCED TO 150 FEET DURING STAGING OF WORK IN IMMEDIATE AREA OF RAMP TAPER.

LEGEND

- POST MOUNTED SIGN
- SIGN ON PORTABLE SUPPORT
- TRAFFIC CONTROL, DRUM
- TRAFFIC CONTROL, DRUM WITH WARNING LIGHT, TYPE C (STEADY-BURN)
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- TYPE III BARRICADE (8' EQUIVALENT) WITH SIGN
- FLAGS, 16"x16" MIN., ORANGE
- DIRECTION OF TRAFFIC FLOW

TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/23/00
DATE
FHWA

Chester J. Spay
CHIEF SIGNS AND MARKING ENGINEER

S.D.D. 15 D 15-1

SYMBOLS

I C/C	TYPE III BARRICADE (8' EQUIVALENT) WITH/WITHOUT SIGN
•	DRUM
	POST MOUNTED SIGN
(A)	WARNING LIGHT, TYPE A (FLASHING)
⇨	DIRECTION OF TRAFFIC

GENERAL NOTES

THIS RAMP CLOSURE DETAIL IS TYPICAL FOR CLOSING A RIGHT SIDE EXIT RAMP. FOR A LEFT SIDE EXIT RAMP, REVERSE THE TRAFFIC CONTROL.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

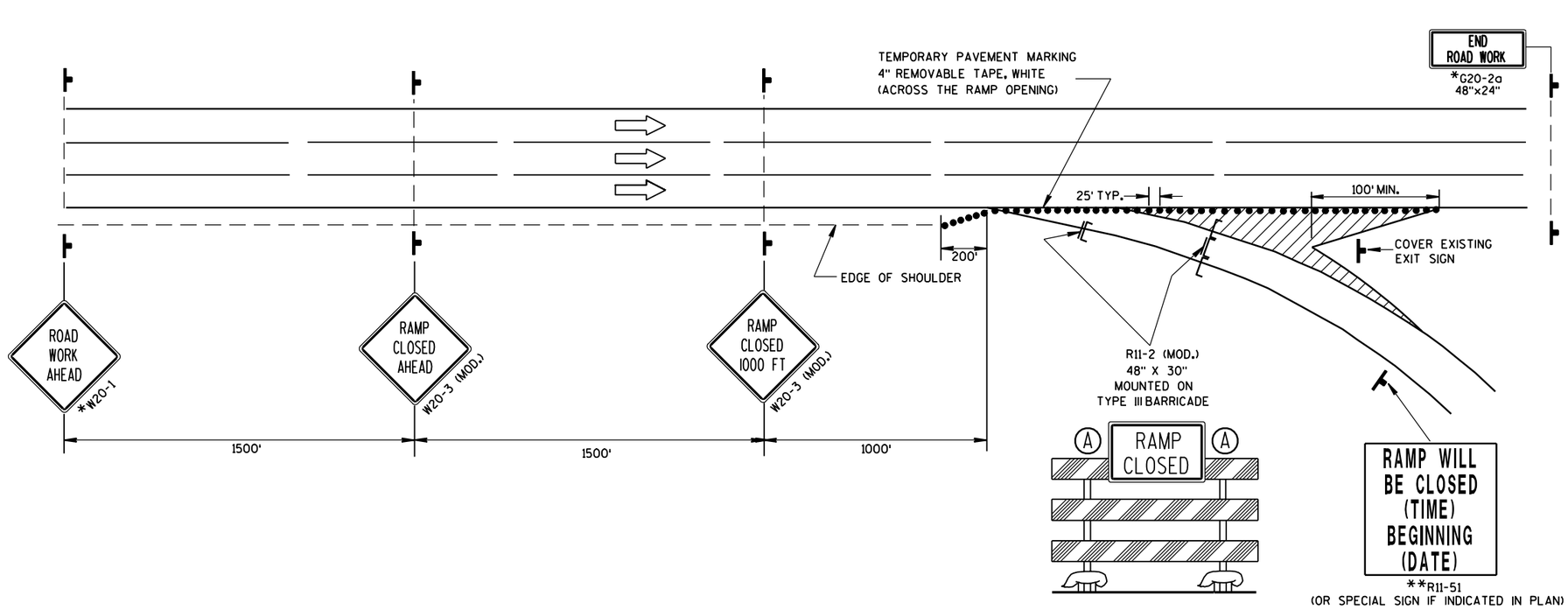
PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF RAMP CLOSURE IS TO BE IN PLACE FOR 7 OR MORE CONTINUOUS DAYS AND NIGHTS.

WORK AREAS WITH A DROPOFF ALONG THE EDGE OF AN OPEN TRAVEL LANE SHALL BE LEVELED WITH TEMPORARY FILL WHEN THE CONTRACTOR IS NOT WORKING ADJACENT TO THE TRAVEL LANE. DRUMS SHALL BE PLACED ENTIRELY OUTSIDE THE TRAVEL LANE, ALLOWING THE FULL UNOBSTRUCTED LANE WIDTH, WHEN THE WORK IS NOT IN PROGRESS.

WHERE MEDIAN BARRIER IS IN PLACE, SIGNS SHOWN ON LEFT SIDE OF ROADWAY MAY BE OMITTED FOR RIGHT SIDE RAMP CLOSURES OF LESS THAN 12-HOUR DURATION.

*W20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE RAMP CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

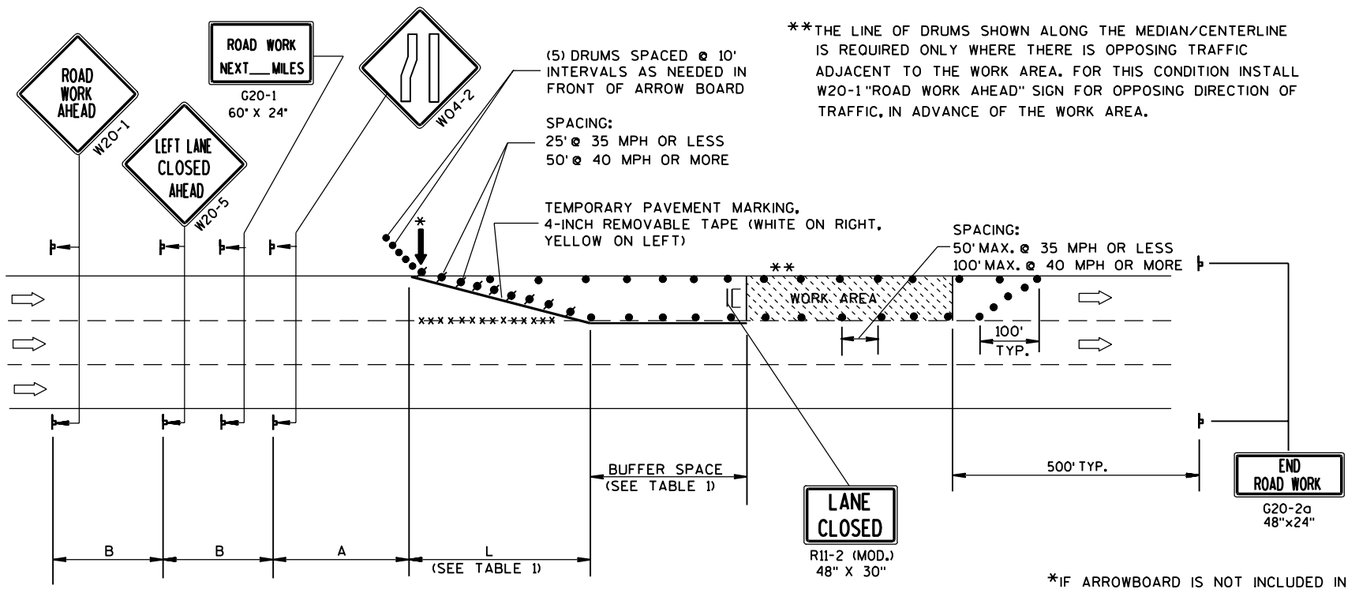
**USE THE "RAMP WILL BE CLOSED" SIGN IF INDICATED IN MISCELLANEOUS QUANTITIES. PLACE 10 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR SIGN LAYOUT.



TRAFFIC CONTROL, EXIT RAMP CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/23/00
DATE
Chester J. Sparg
CHIEF SIGNS AND MARKING ENGINEER
FHWA



**THE LINE OF DRUMS SHOWN ALONG THE MEDIAN/CENTERLINE IS REQUIRED ONLY WHERE THERE IS OPPOSING TRAFFIC ADJACENT TO THE WORK AREA. FOR THIS CONDITION INSTALL W20-1 "ROAD WORK AHEAD" SIGN FOR OPPOSING DIRECTION OF TRAFFIC, IN ADVANCE OF THE WORK AREA.

B=400' AT 25-30 MPH
700' AT 35-40 MPH
1000' AT 45-55 MPH

A=200' AT 25-30 MPH
350' AT 35-40 MPH
500' AT 45-55 MPH

(PLACE BARRICADE AND SIGN APPROX. EVERY 1000' ACROSS THE CLOSED LANE)

*IF ARROWBOARD IS NOT INCLUDED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE A TYPE III BARRICADE WITH W01-6 SIGN IN THE LANE CLOSURE TAPER.

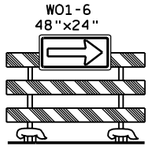


TABLE 1
TAPER AND BUFFER SPACE
FOR 12' LANE WIDTH

S	L	BUFFER SPACE
25	125'	55'
30	180'	85'
35	245'	120'
40	320'	170'
45	540'	220'
50	600'	280'
55	660'	335'

FOR LANE WIDTH OTHER THAN 12':

L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

L = TAPER LENGTH IN FEET

S = NON-CONSTRUCTION SPEED LIMIT (MPH)

W = WIDTH OF LANE CLOSURE

LEGEND

- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY-BURN)
- POST MOUNTED SIGN
- ARROW BOARD
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- DIRECTION OF TRAFFIC FLOW
- xxxx REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)

GENERAL NOTES

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 7 OR MORE CONTINUOUS DAYS AND NIGHTS.

ON UNDIVIDED ROADWAYS, OMIT THE SIGNS SHOWN ON LEFT SIDE OF ROAD.

W20-1, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.

PLACE THE ARROWBOARD AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE LANE CLOSURE TAPER, PREFERABLY ON THE SHOULDER OR TERRACE.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/23/00
DATE

Chester J. Sparg
CHIEF SIGNS AND MARKING ENGINEER

FHWA

6
S.D.D. 15 D 20-1

SYMBOLS

- TRAFFIC CONTROL DRUM
- POST MOUNTED SIGN
- DIRECTION OF TRAFFIC FLOW
- ARROW BOARD IN CAUTION MODE

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT SHOULDER. FOR CLOSING THE LEFT SHOULDER, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR DIVIDED ROADWAYS WITH ANY NUMBER OF TRAVEL LANES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

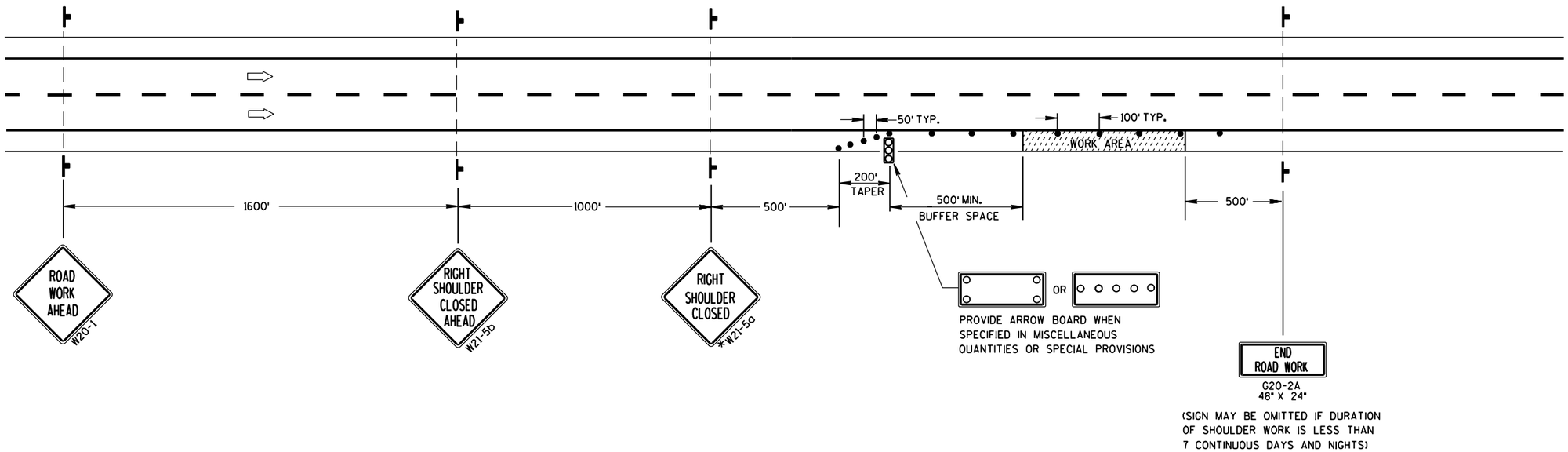
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

*FOR SHORT DURATION SHOULDER WORK OF LESS THAN ONE HOUR, THE W21-5a SIGN MAY BE OMITTED.



TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/23/00 DATE

/S/ Chester J. Spang
CHIEF SIGNS AND MARKING ENGINEER

FHWA

6

S.D.D. 15 D 27-1

6

S.D.D. 15 D 27-1

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

W20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.

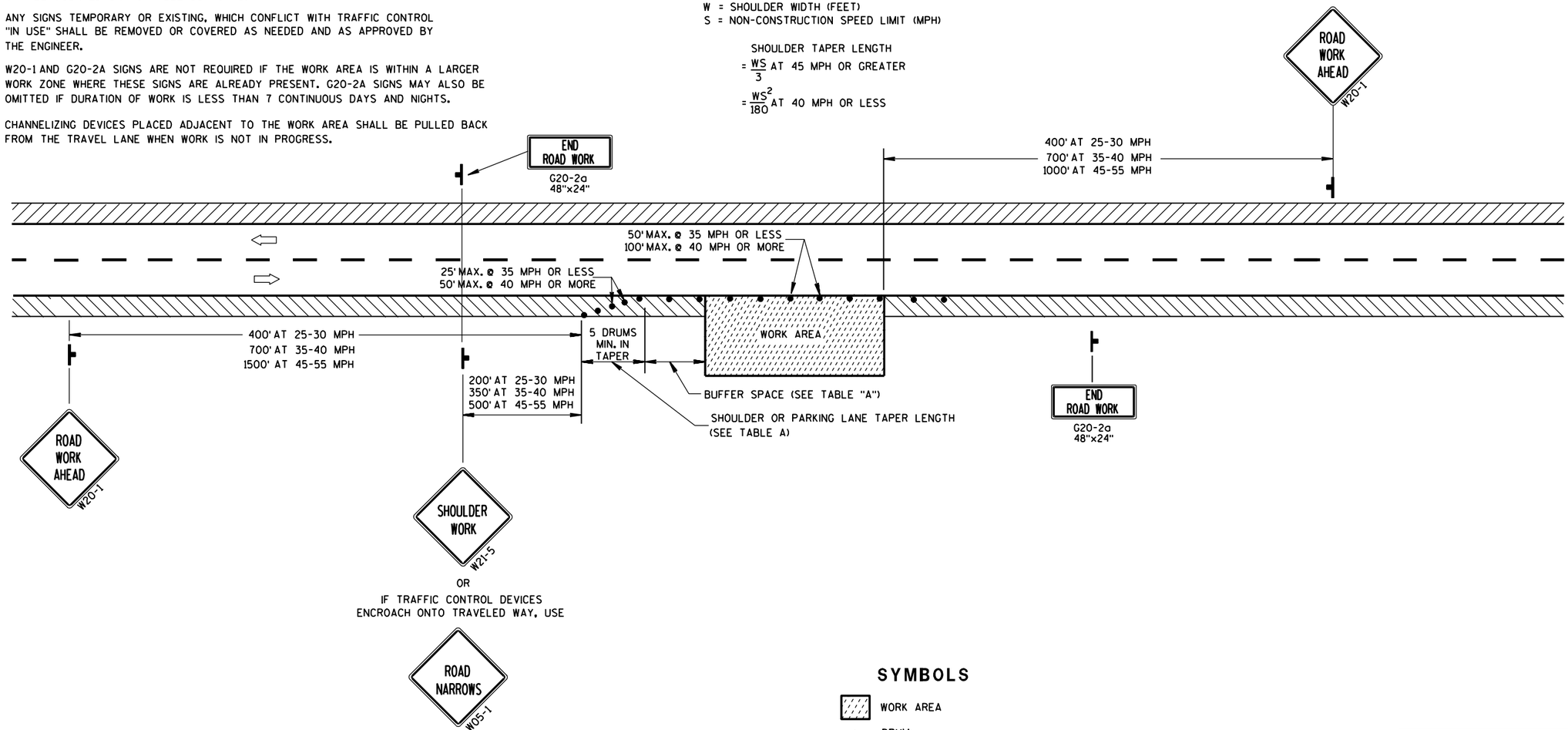
CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

TABLE A

S \ W	SHOULDER TAPER LENGTH (FEET) 4	6	8	10	BUFFER SPACE (FEET)
30	20	30	40	50	85
35	30	45	55	70	120
40	40	55	75	90	170
45	60	90	120	150	220
50	70	100	135	170	280
55	75	110	150	185	335

W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

SHOULDER TAPER LENGTH
$= \frac{WS}{3}$ AT 45 MPH OR GREATER
$= \frac{WS^2}{180}$ AT 40 MPH OR LESS



SYMBOLS

- WORK AREA
- DRUM
- POST MOUNTED SIGN
- DIRECTION OF TRAFFIC FLOW

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/23/00
DATE

Chester J. Spong
CHIEF SIGNS AND MARKING ENGINEER

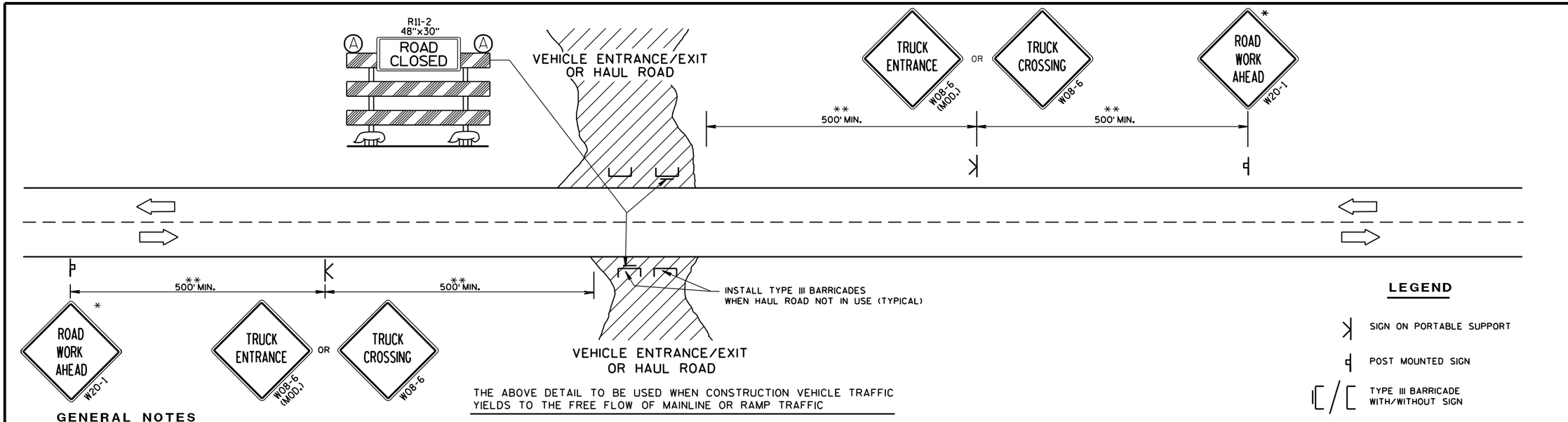
FHWA

6

S.D.D. 15 D 28-1

6

S.D.D. 15 D 28-1



THE ABOVE DETAIL TO BE USED WHEN CONSTRUCTION VEHICLE TRAFFIC YIELDS TO THE FREE FLOW OF MAINLINE OR RAMP TRAFFIC

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS, DEVICES AND FLAGGERS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

WHEN ACTIVITY REFLECTED BY THE SIGN IS NOT CURRENTLY TAKING PLACE, THE HIGHWAY SHALL BE RESTORED TO NORMAL CONDITION AND THE SIGNS SHALL BE REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC.

WHEN A SIDE ROAD OR RAMP INTERSECTS WITHIN THE ADVANCE SIGNING AREA, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

* THESE SIGNS ARE TO BE USED ONLY WHEN VEHICLE ENTRANCE/EXIT CONDITIONS ARE SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA OR SIGNING OR AS DIRECTED BY THE ENGINEER.

** 500' SHOWN IS FOR ROADWAYS WITH A NON-CONSTRUCTION REGULATORY SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350'. FOR 25-30 MPH, USE 200'. USE 1000'/1500' FOR EXPRESSWAY/FREEWAY.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

PLACE SIGNS ON BOTH SIDES IF USED ON DIVIDED HIGHWAY.

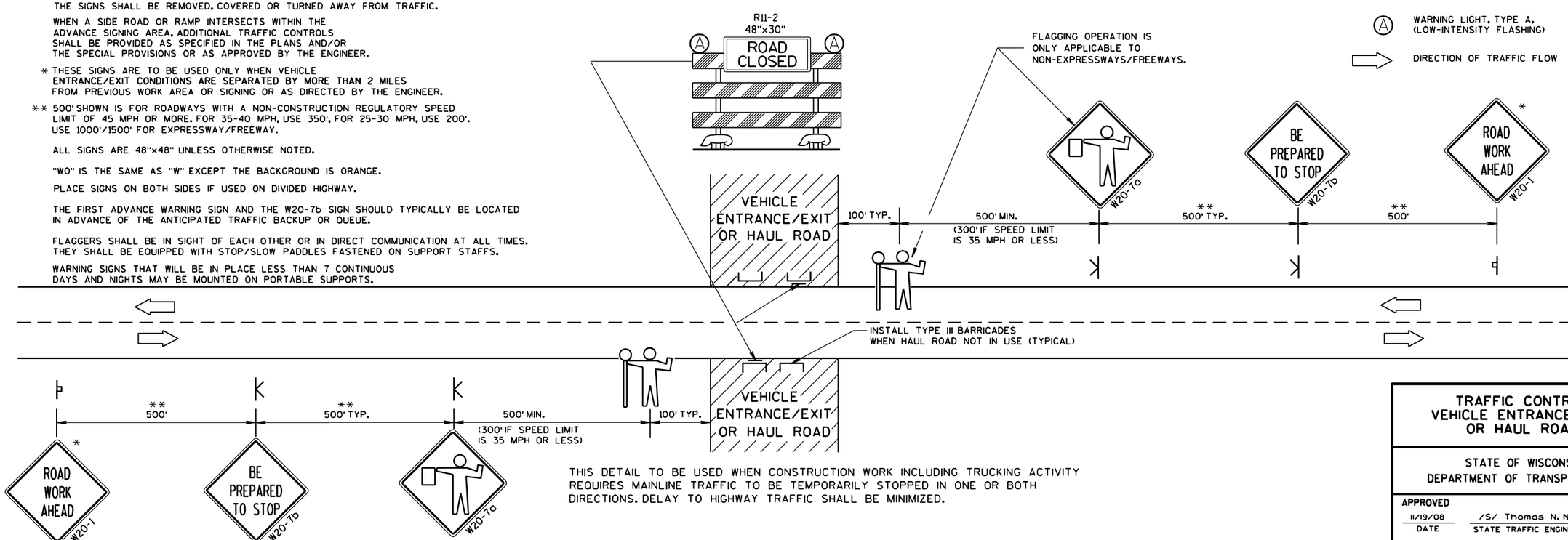
THE FIRST ADVANCE WARNING SIGN AND THE W20-7b SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS.

WARNING SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

LEGEND

- SIGN ON PORTABLE SUPPORT
- POST MOUNTED SIGN
- TYPE III BARRICADE WITH/WITHOUT SIGN
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- (A) WARNING LIGHT, TYPE A, (LOW-INTENSITY FLASHING)
- DIRECTION OF TRAFFIC FLOW



THIS DETAIL TO BE USED WHEN CONSTRUCTION WORK INCLUDING TRUCKING ACTIVITY REQUIRES MAINLINE TRAFFIC TO BE TEMPORARILY STOPPED IN ONE OR BOTH DIRECTIONS. DELAY TO HIGHWAY TRAFFIC SHALL BE MINIMIZED.

TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/19/08	/S/ Thomas N. Notbohm
DATE	STATE TRAFFIC ENGINEER OF DESIGN

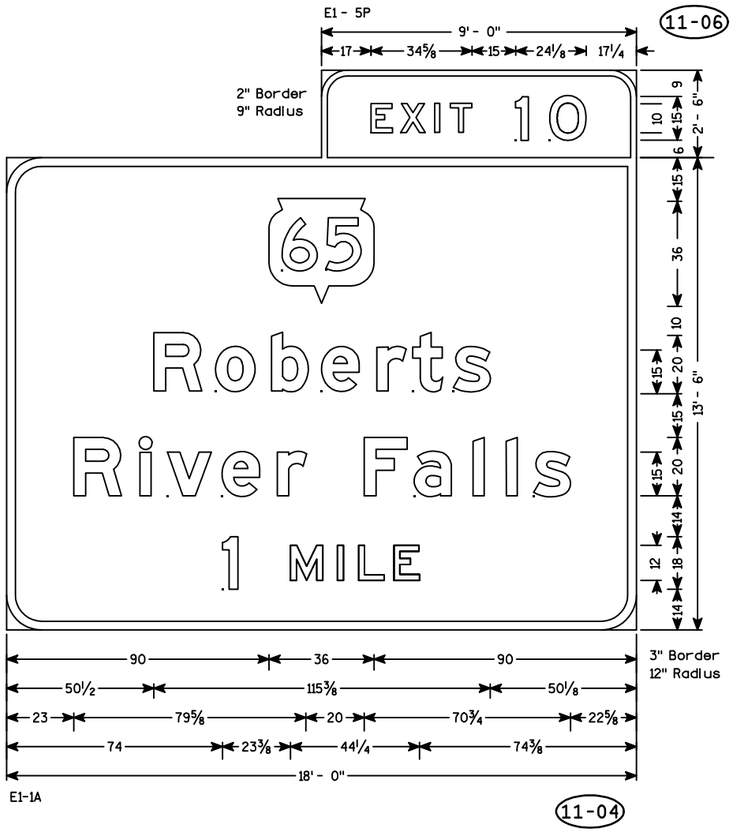
FHWA

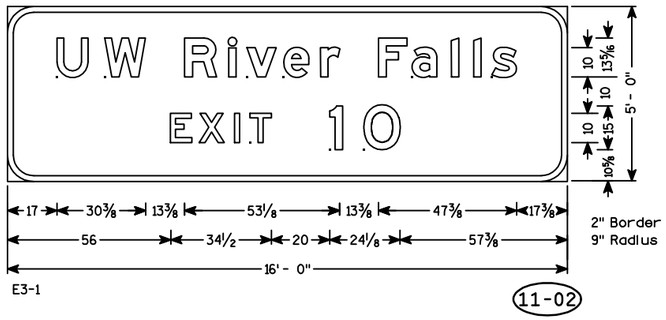
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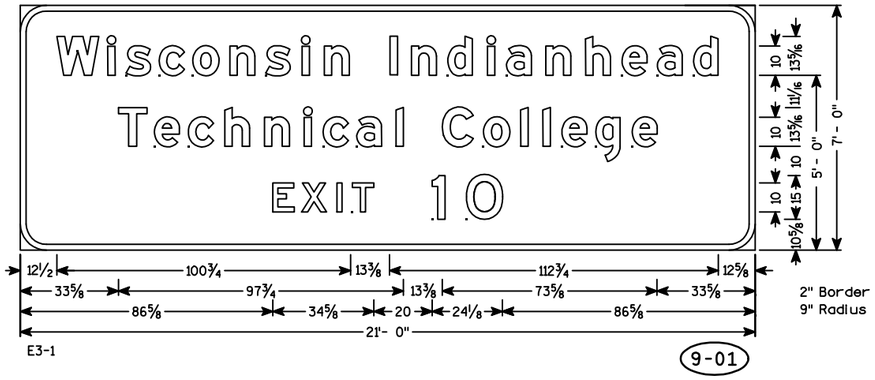
S.D.D. 15 D 29-2

6

S.D.D. 15 D 29-2

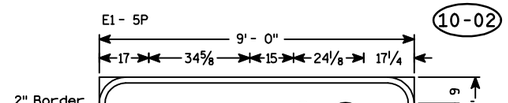


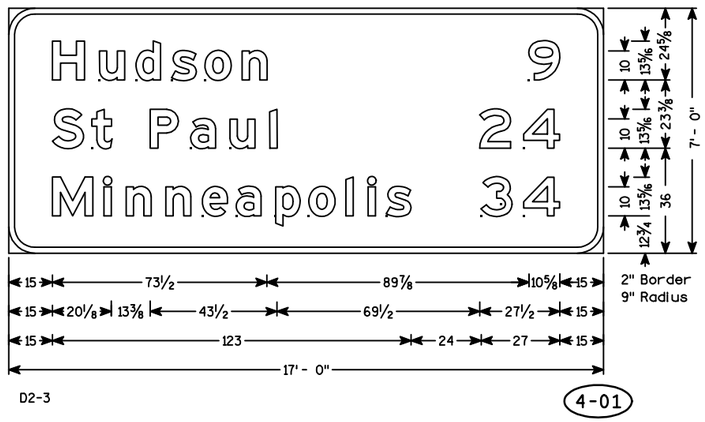


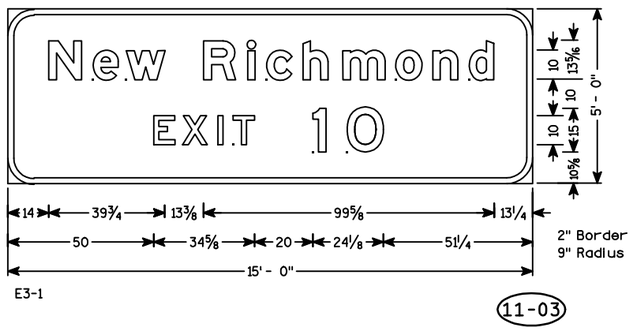


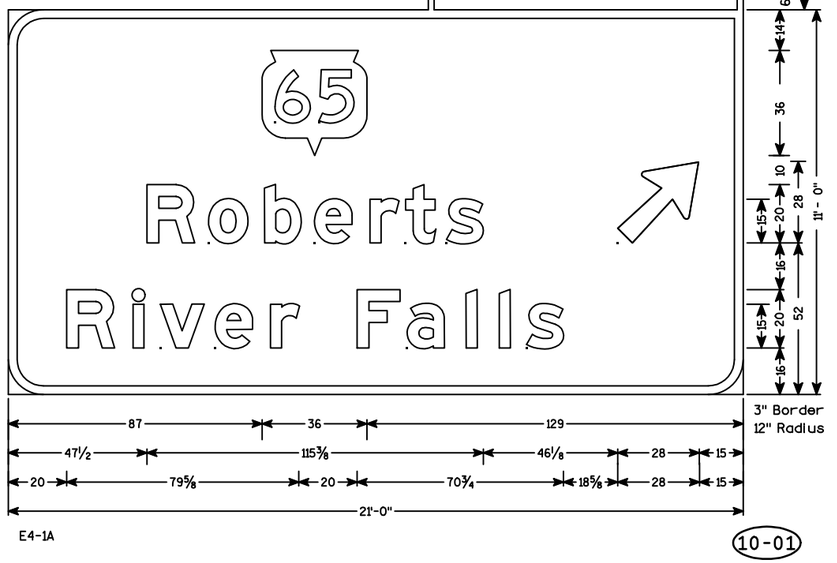
NOTES

1. All Signs are Type I- Type SH Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified





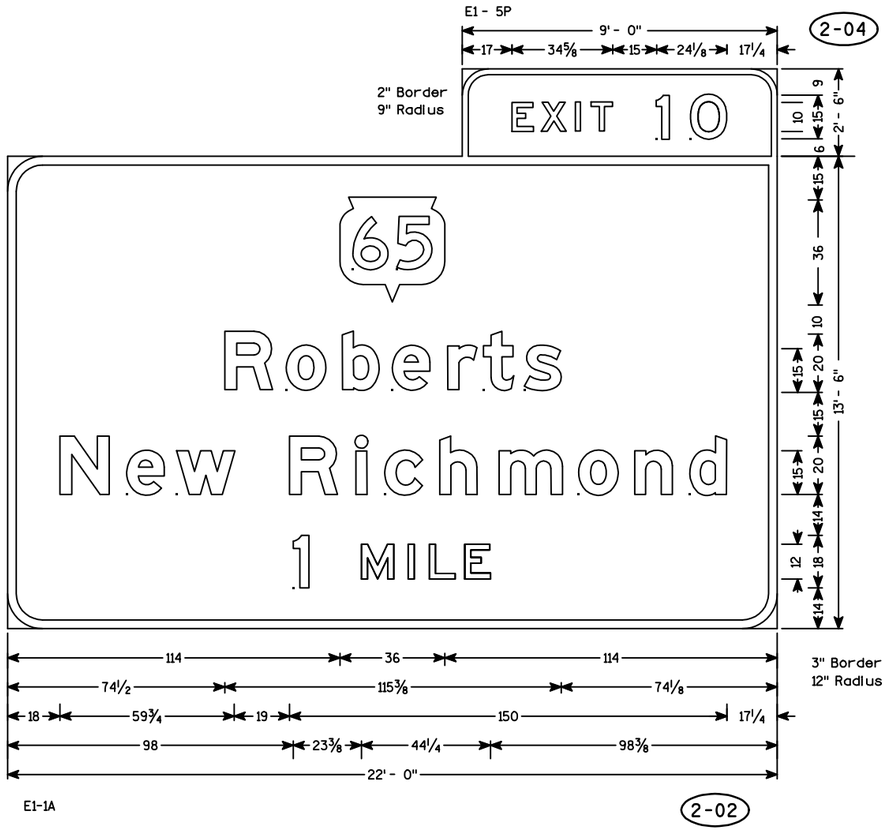


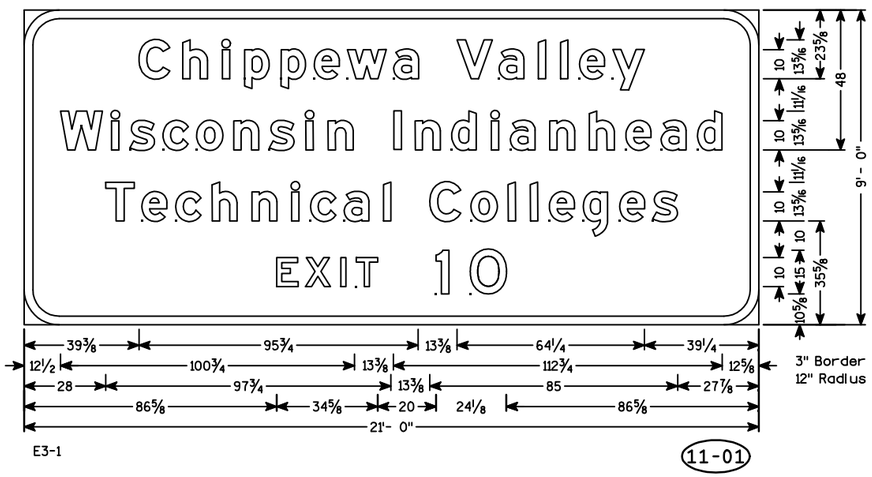


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7

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST CROIX	SIGN PLATES-TYPE I	SHEET NO: 516	E





NOTES

1. All Signs are Type I - Type SH Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified

7

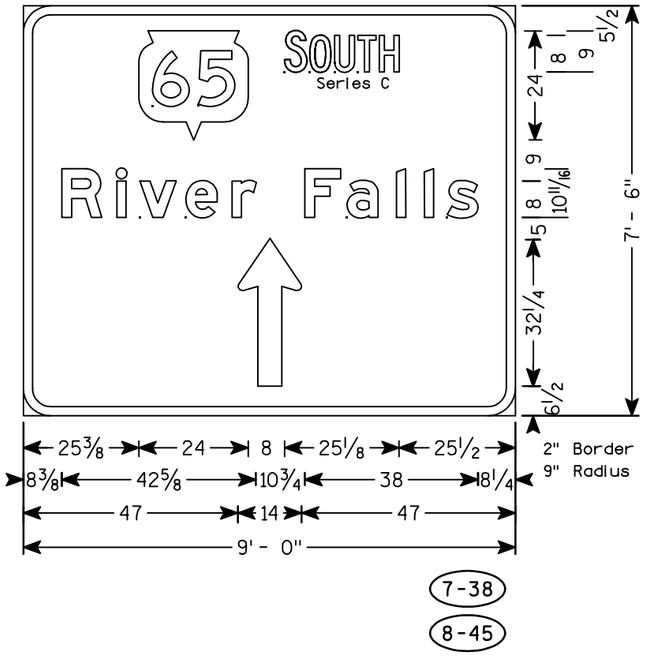
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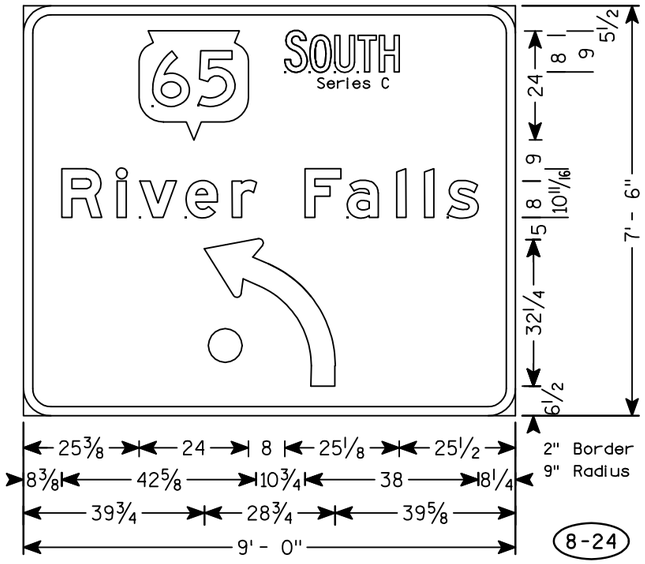
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST CROIX	SIGN PLATES-TYPE 1	SHEET NO: E

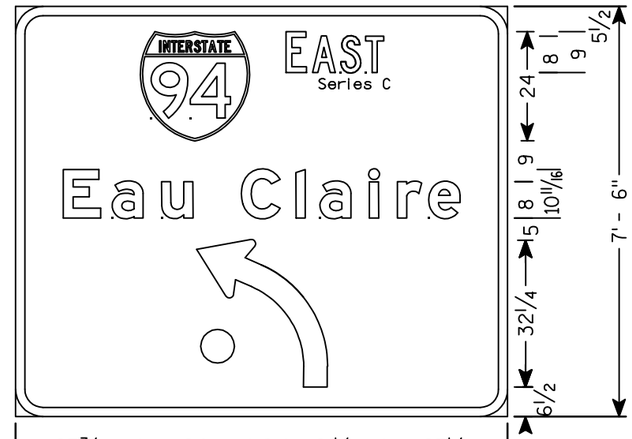
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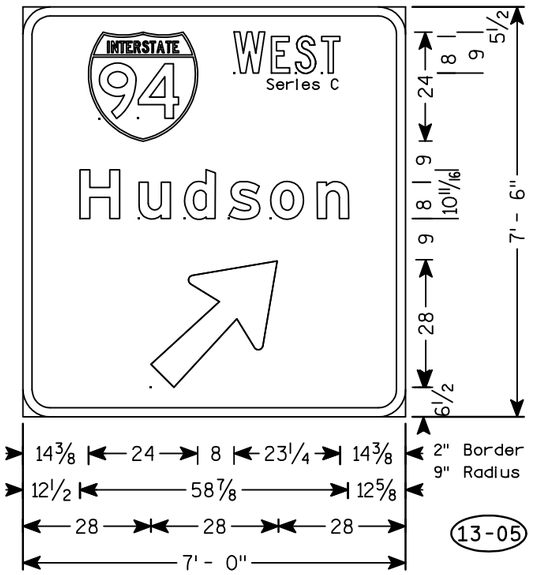
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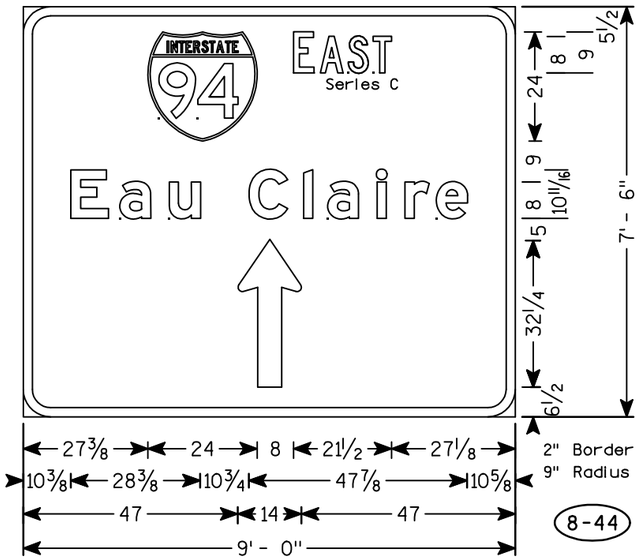
1. All Signs are Type I- Type SH Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except as noted







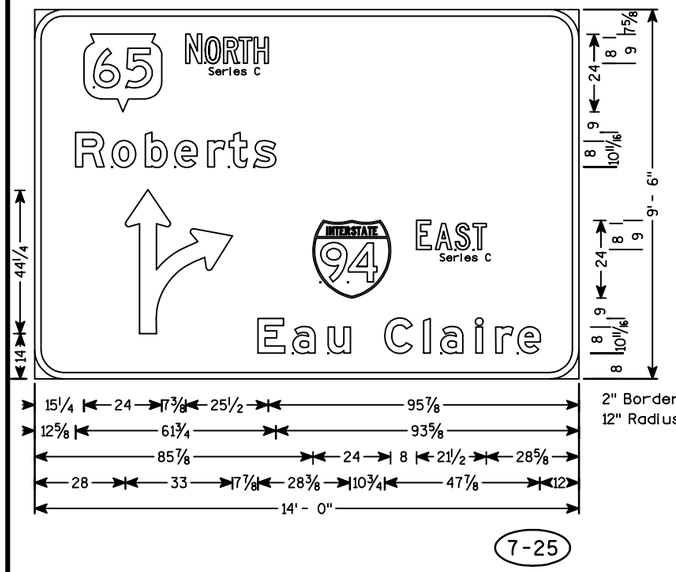


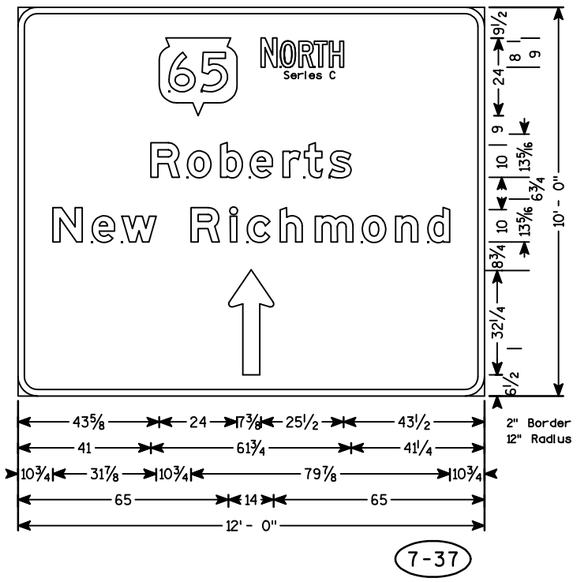


7

7

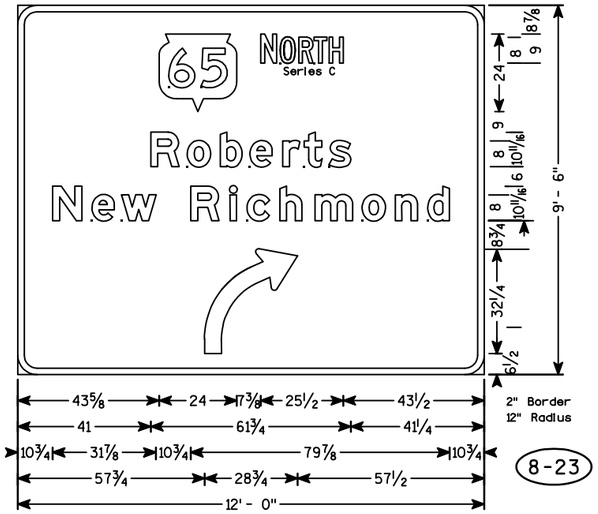
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST CROIX	SIGN PLATES-TYPE 1	SHEET NO: 518	E

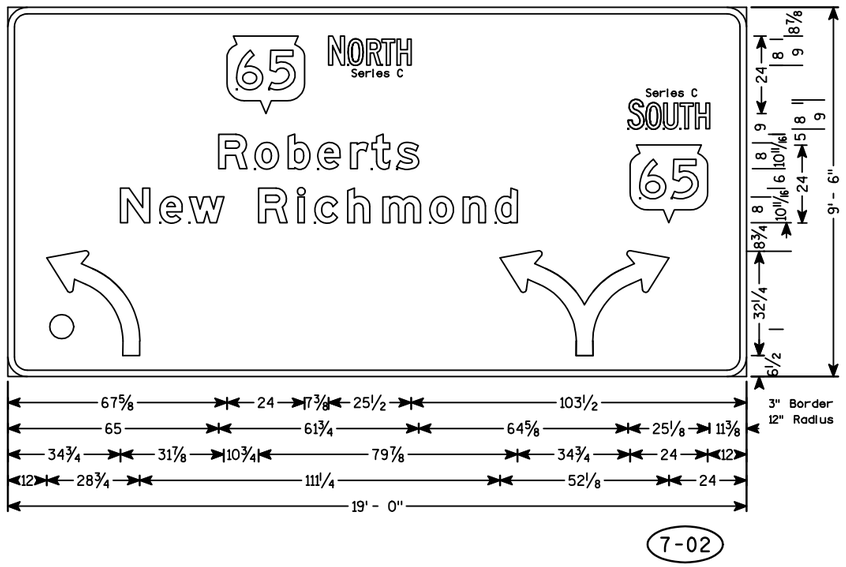


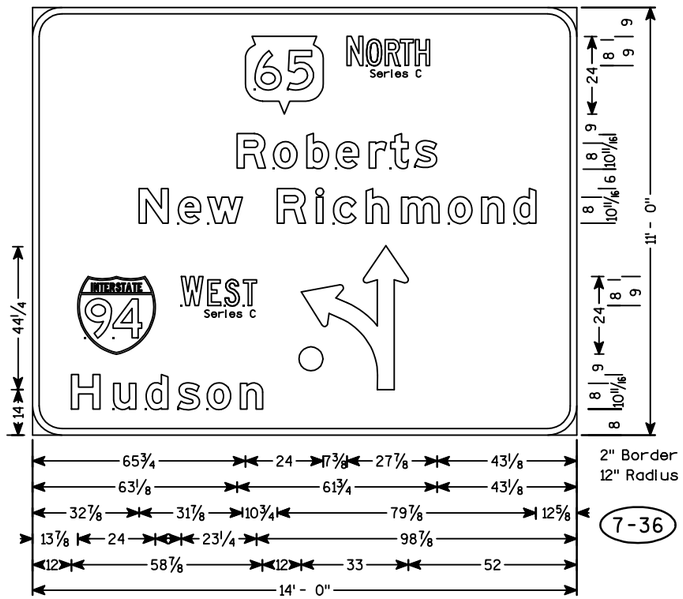


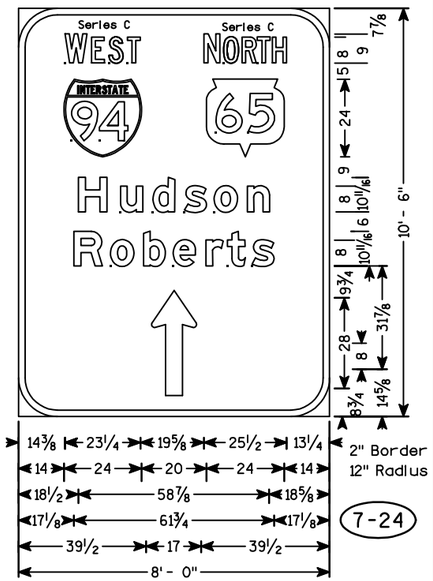
NOTES

1. All Signs are Type I- Type SH Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except as noted

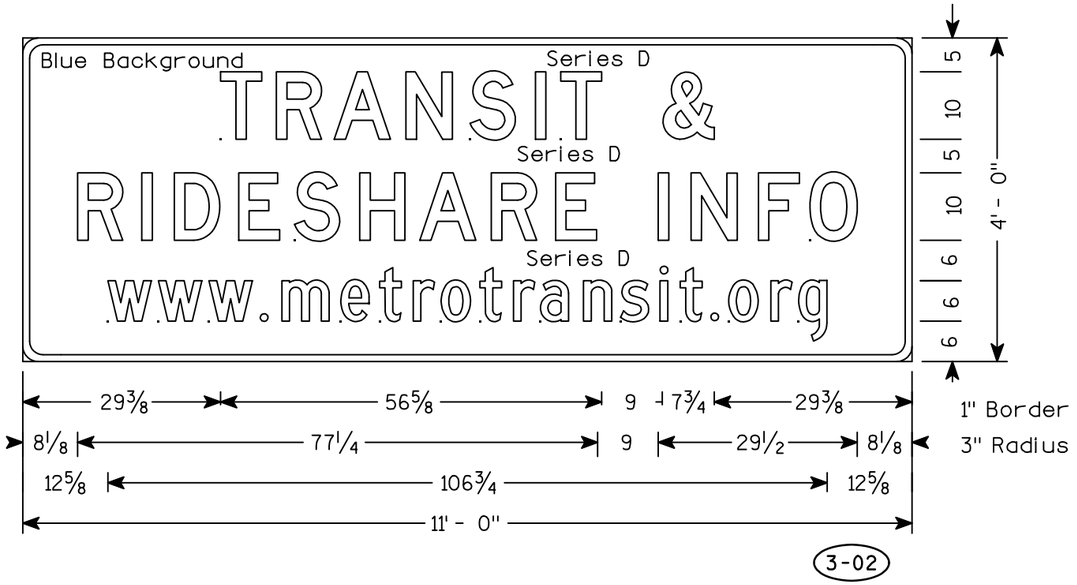








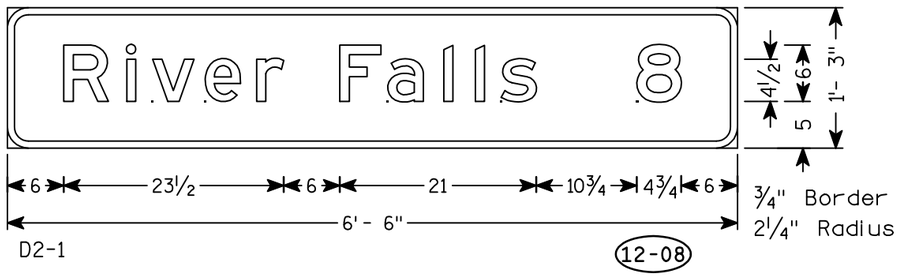
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST CROIX	SIGN PLATES - TYPE 1	SHEET NO: 519	E



3-02

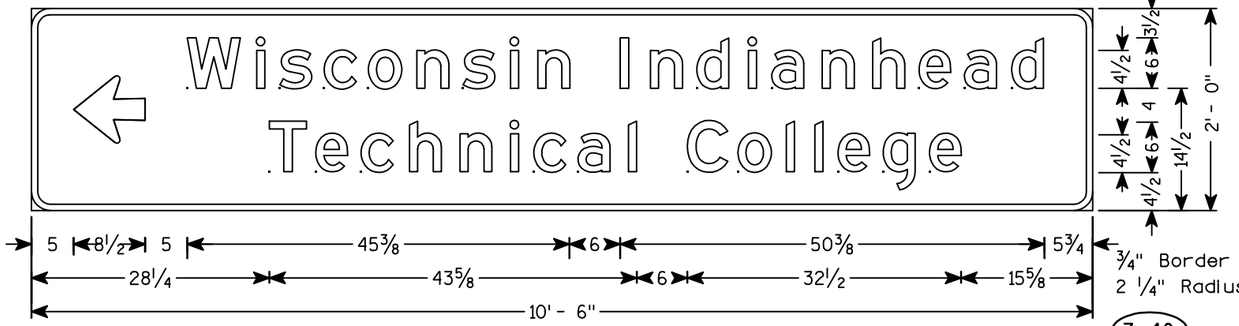
NOTES

1. All Signs Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - GREEN except as noted
   Message - WHITE
3. Message Series - E except as noted



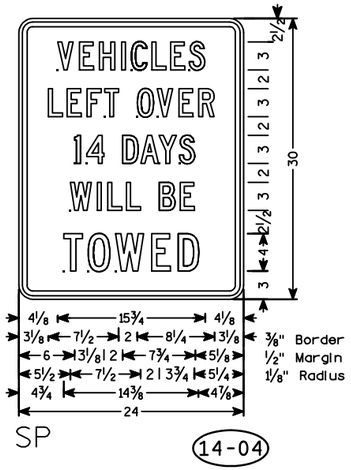
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12-08



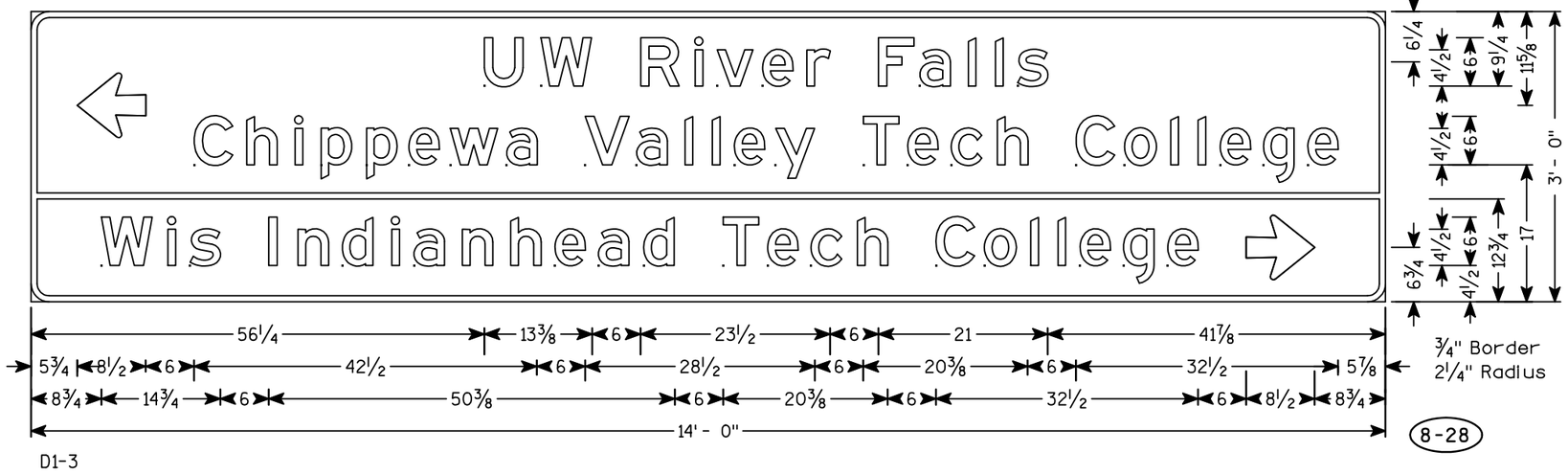
D1-2

7-40



SP

14-04



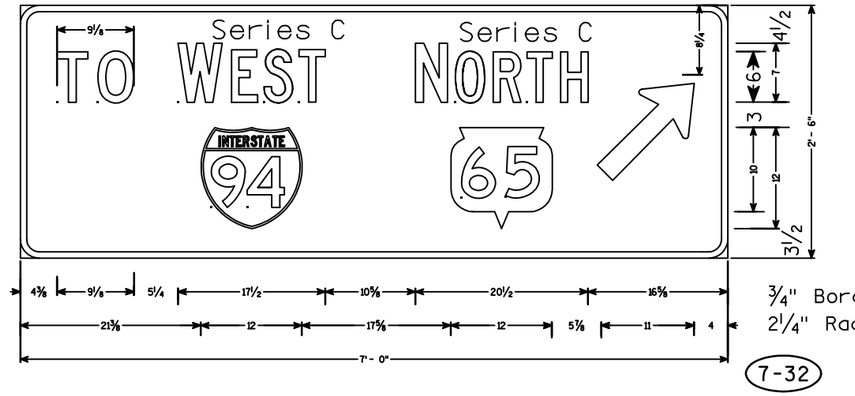
D1-3

8-28

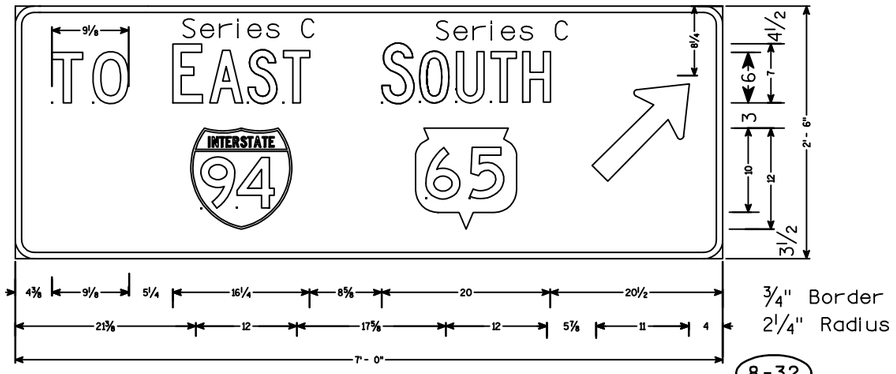
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NOTES

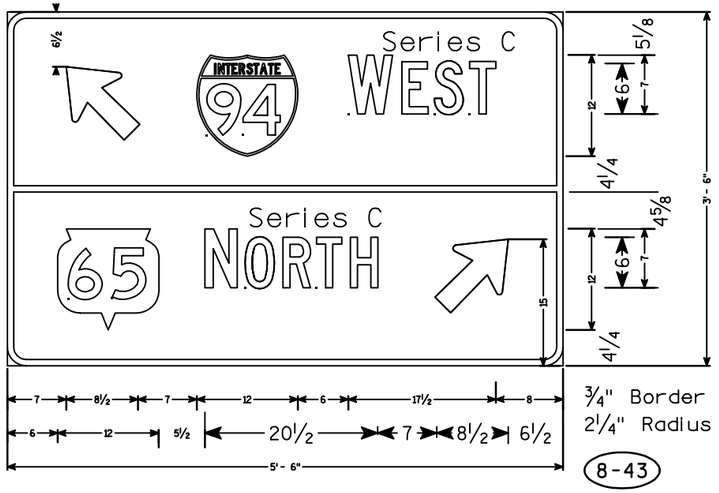
1. All Signs Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - GREEN
   Message - WHITE
3. Message Series - E except as noted



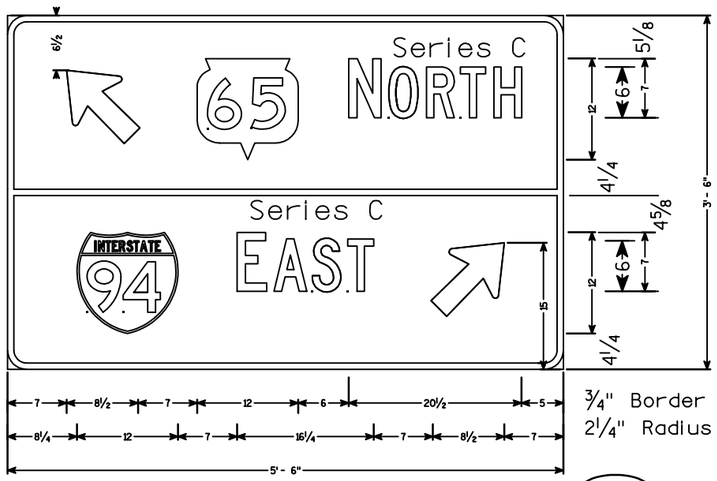
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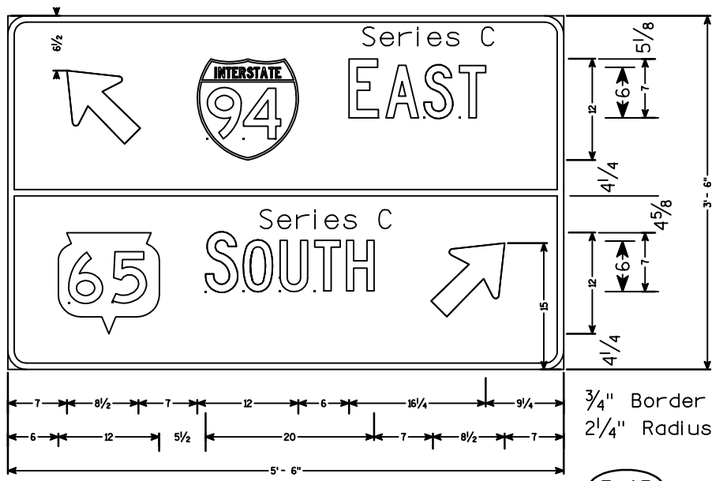
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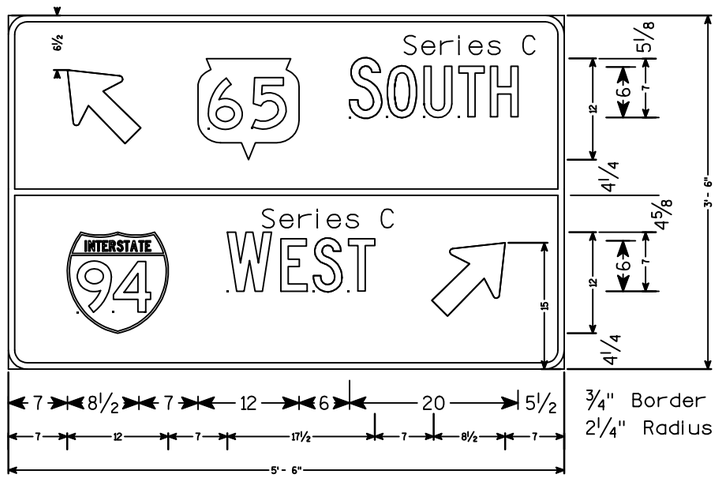
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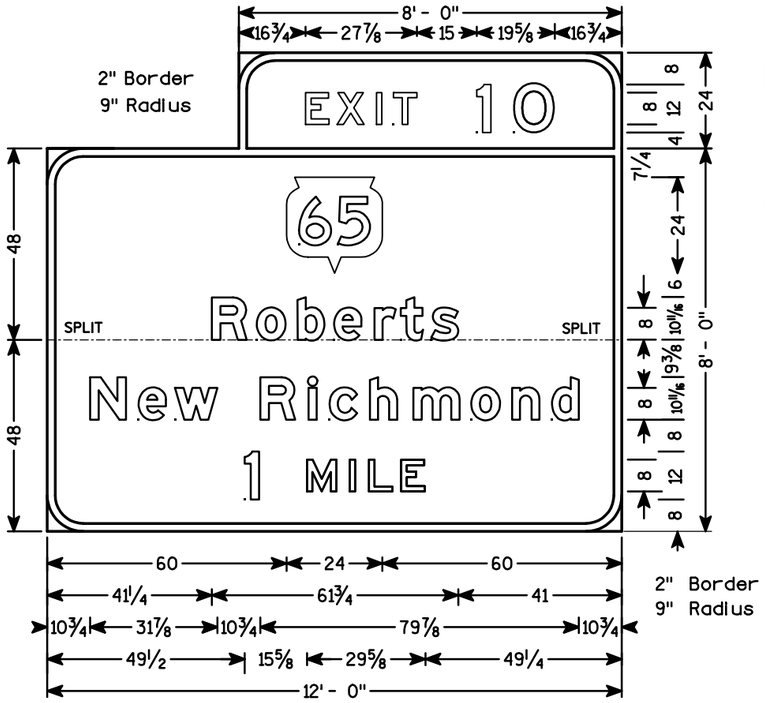


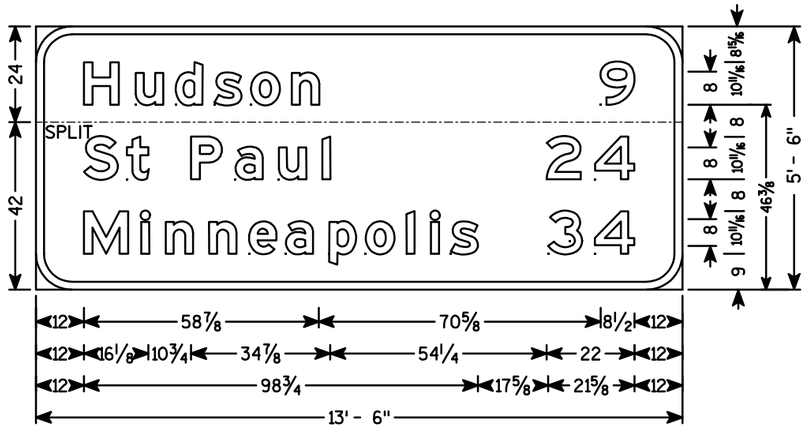
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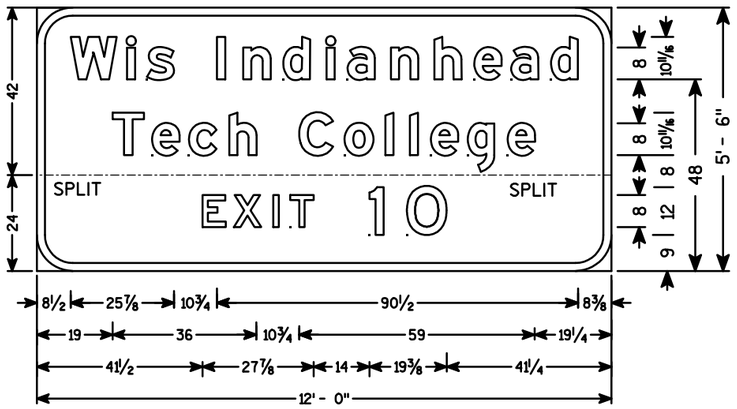


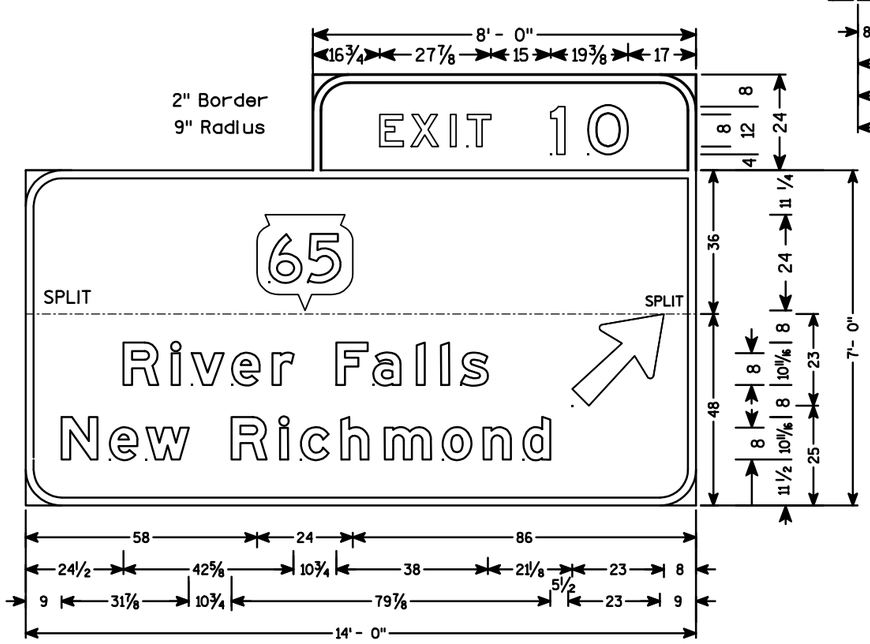
8-06 8-10

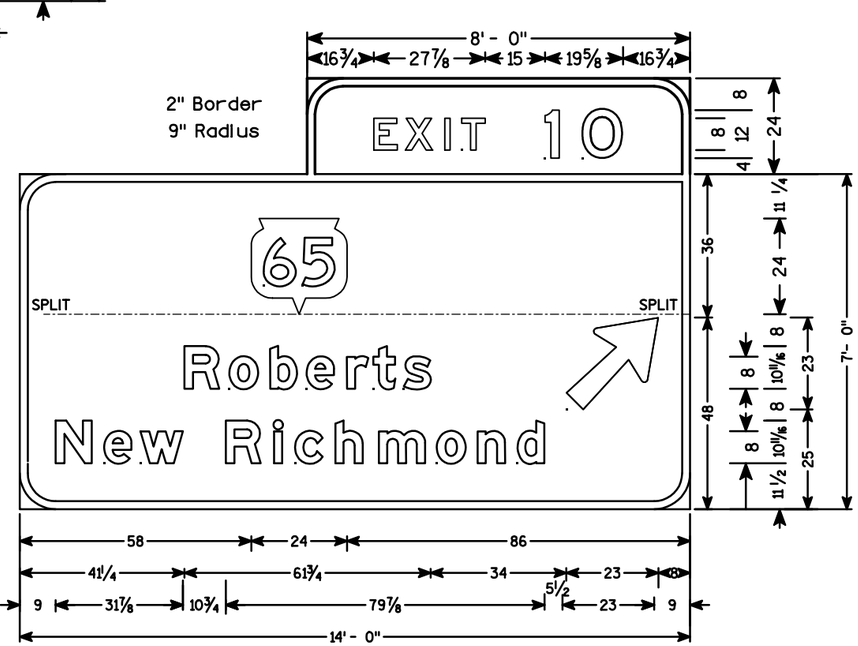
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST CROIX	SIGN PLATES-TYPE II	SHEET NO: 521	E











NOTES

1. All Signs Type III - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - GREEN
   Message - WHITE
3. Message Series - E Modified except all cap WORDS are Series E

7

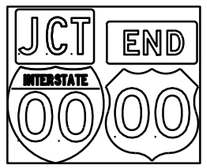
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST CROIX	TEMPORARY SIGNING	SHEET NO: 522	E

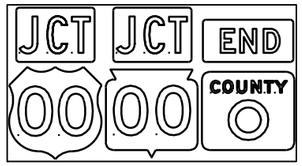
TYPICAL ASSEMBLIES



J1-1



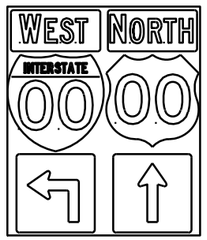
J1-2



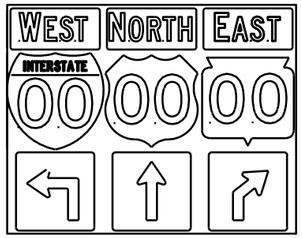
J1-3



J2-1



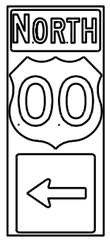
J2-2



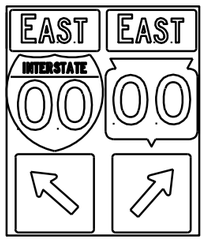
J2-3



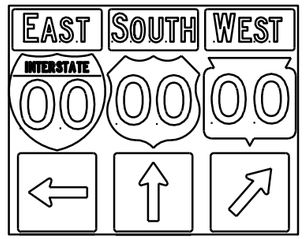
JV



J3-1



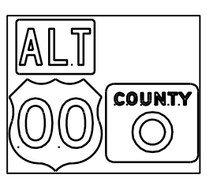
J3-2



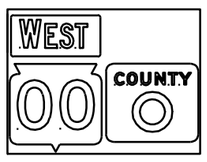
J3-3



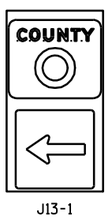
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1



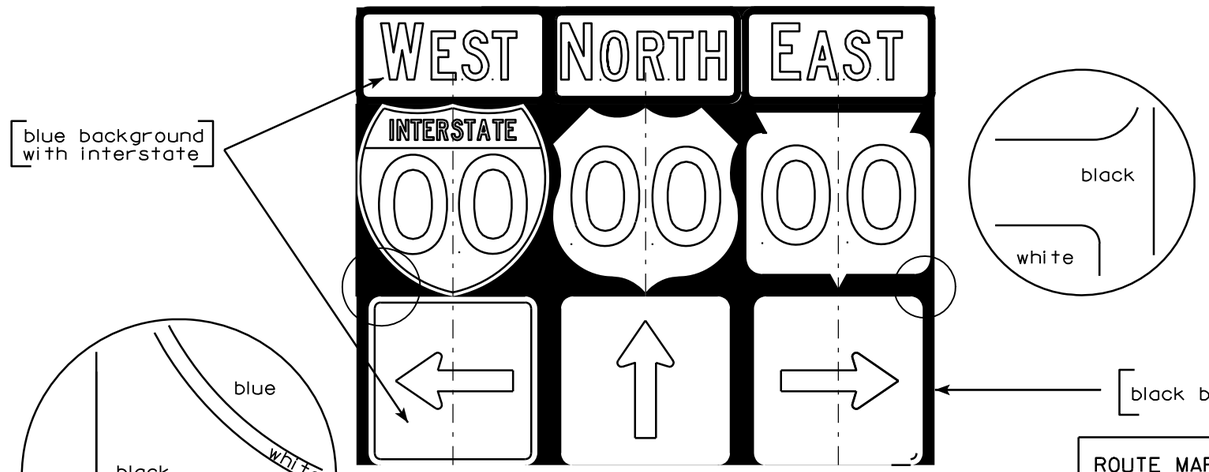
J23-1



J22-1

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square since base material is plywood.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.



ROUTE MARKERS & COMPONENTS IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

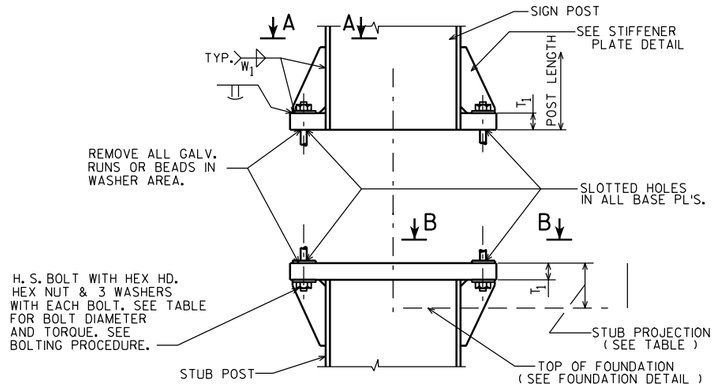
DATE 10/21/09 PLATE NO. A2-1S.6

7

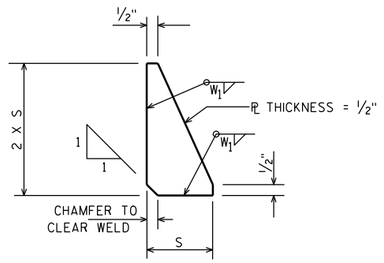
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PROJECT NO:

SHEET NO: 523 E

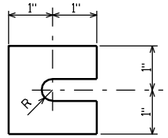


SIGN POST AND STUB POST ELEVATION



STIFFENER PLATE DETAIL

(SEE TABLE FOR DIMENSIONS)



FURNISH 2 @ .012" ± THICK AND 2 @ .032" ± THICK SHIMS PER POST. SHIMS SHALL BE FABRICATED FROM BRASS SHIM STOCK OR STRIP CONFORMING TO A.S.T.M.- B36.

SHIM DETAIL

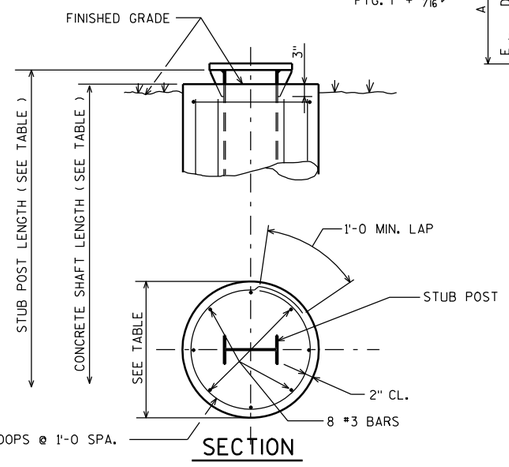
POST DETAIL

	QUANTITIES FOR 1 FOOTING	
	CONC. MASONRY C.Y.	REINF. STEEL LBS.
A	0.6	34
B	0.8	49
C	0.9	50
D	0.9	56
E	1.0	62

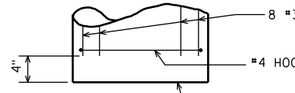
⑦

REINF.	TYPE	#3	#4
	A	8 @ 4'-5	5 @ 6'-3
	B	8 @ 6'-5	7 @ 6'-3
	C	8 @ 6'-11	7 @ 6'-3
	D	8 @ 7'-5	8 @ 6'-3
	E	8 @ 7'-11	9 @ 6'-3

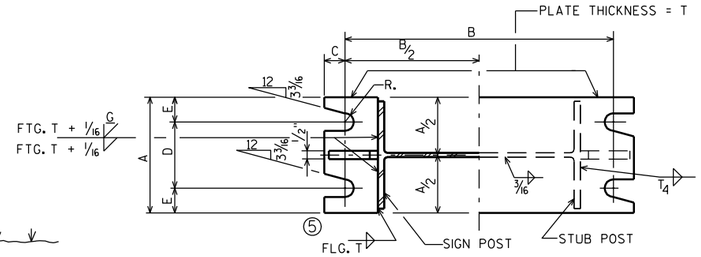
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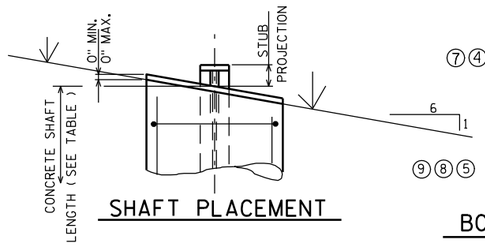
SECTION



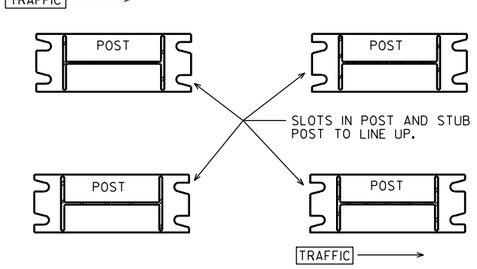
FOUNDATION DETAIL



SECTION A-A SECTION B-B



SHAFT PLACEMENT



POST SLOT ORIENTATION ⑦

DESIGN DATA

WIND PRESSURE = 75 M.P.H.
WIND COMPONENTS - NORMAL = 1.0 TRANSVERSE = 0.0
ICE LOAD = 3 P.S.F.

GROUP LOADS	PERCENT OF ALLOWABLE STRESS
1. DEAD	100
2. DEAD & WIND	140
3. DEAD, ICE & 1/2 WIND△	140 △25 P.S.F. MIN.

ALLOWABLE SOIL PRESSURE = 1½T / SQ. FT.
WIND LOAD WAS APPLIED TO THE AREA OF THE SIGN AND TO THE SUPPORTING MEMBERS.
ICE LOAD WAS APPLIED TO ONE FACE OF THE SIGN AND AROUND THE SURFACE OF THE SUPPORTING MEMBERS.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
DESIGN CONFORMS WITH A.A.S.H.T.O. SPECIFICATIONS 1985.
ALL POSTS, POST STUBS & ATTACHMENTS SHALL BE A.S.T.M. A709 GRADE 50.
⑨ THE POST, BASE PLATES, UPPER SIX INCHES OF STUB POST FLANGE SPLICE PLATE AND FUSE PLATE SHALL BE GALVANIZED AFTER FABRICATION.
H.S. BOLTS, WASHERS & NUTS SHALL BE A325 GALVANIZED WHEN POSTS, POST STUBS AND ATTACHMENTS ARE A709 GRADE 50 AND GALVANIZED.

BOLTING PROCEDURE - BASE CONNECTION

1. ASSEMBLE SIGN POST TO STUB POST WITH BOLTS AND ONE OF THE FLAT WASHERS ON EACH BOLT BETW. PLATES.
2. SHIM AS REQ'D. TO PLUMB POST.
3. TIGHTEN ALL BOLTS THE MAXIMUM POSSIBLE WITH 12" OR 15" WRENCH TO BED WASHERS & SHIMS AND TO CLEAN BOLT THREADS, THEN LOOSEN EACH BOLT IN TURN AND RETIGHTEN IN A SYSTEMATIC ORDER TO THE PRESCRIBED TORQUE. (SEE TABLE)
4. BURR THREADS AT JUNCTION WITH NUT USING A CENTER PUNCH TO PREVENT NUT LOOSENING.

NOTE:
TIGHTEN THE HIGH STRENGTH BOLTS TO THE TORQUE SHOWN.
DO NOT OVERTIGHTEN.

	TYPE	DIMENSION / POST SIZE	BASE CONNECTION DATA TABLE: BOLT SIZE & TORQUE	A	B	C	D	E	T_1	T_4	W_1	R	S	FOUNDATION DATA: STUB LENGTH	STUB PROJECTION	SHAFT DIAMETER	SHAFT LENGTH	② K
④	A	W10"X12.0 #/FT.	3/4" Φ @ 75#-FT.	5 1/4"	1'-0 3/8	7/8"	3 1/2"	7/8"	1"	3/16"	5/16"	13/32 "	2 1/8"	3'-6	3"	2'-0 Φ	5'-0	76.0# ④
④	B	W12"X16.0 #/FT.	7/8" Φ @ 85#-FT.	5 1/2"	1'-4 1/4	1"	3 1/2"	1"	1 1/4"	1/4"	5/16"	15/32 "	3"	5'-6	3"	2'-0 Φ	7'-0	146.5# ④
	C	W12"X19.0 #/FT.	7/8" Φ @ 85#-FT.	5 1/2"	1'-4 1/4	1"	3 1/2"	1"	1 1/2"	5/16"	5/16"	15/32 "	3"	6'-0	3"	2'-0 Φ	7'-6	182.1#
	D	W12"X22.0 #/FT.	7/8" Φ @ 85#-FT.	5 1/2"	1'-4 1/4	1"	3 1/2"	1"	1 1/2"	3/8"	5/16"	15/32 "	3"	6'-6	3"	2'-0 Φ	8'-0	210.5#
③	E	W12"X26.0 #/FT.	1" Φ @ 90#-FT.	7"	1'-4 1/4	1 1/4"	4"	1 1/2"	1 1/2"	3/8"	5/16"	17/32 "	3"	7'-0	3"	2'-0 Φ	8'-6	293.0# ③

① ⑥ ①

STRUCTURAL CARBON STEEL PAY WTS. (1 POST) = K+ (POST LENGTH X POST WT.)
" K " INCLUDES STUB, BASE PLATES, STIFFS., BOLTS, AND WASHERS.

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer
DATE 4/26/11 PLATE NO. A3-1.13

NO.	DATE	REVISION
⑨	4-26-11	REMOVE NON-GALVANIZED
⑧	10-30-96	NOT GALVANIZED/GALVANIZED
⑦	10-30-92	QUANT., A588 EXCEPT., ADD SLOT VIEW
⑥	8-24-87	BASE CONN. WELD
⑤	10-13-81	BASE CONN. WELD & FUSE PL WASHERS
④	10-19-79	POST A & B, A572 GR. 50, & K
②	11-28-78	"K" ③ 4-23-79 TYPE "E"
①	5-4-78	T_1 , T_2 & W_1

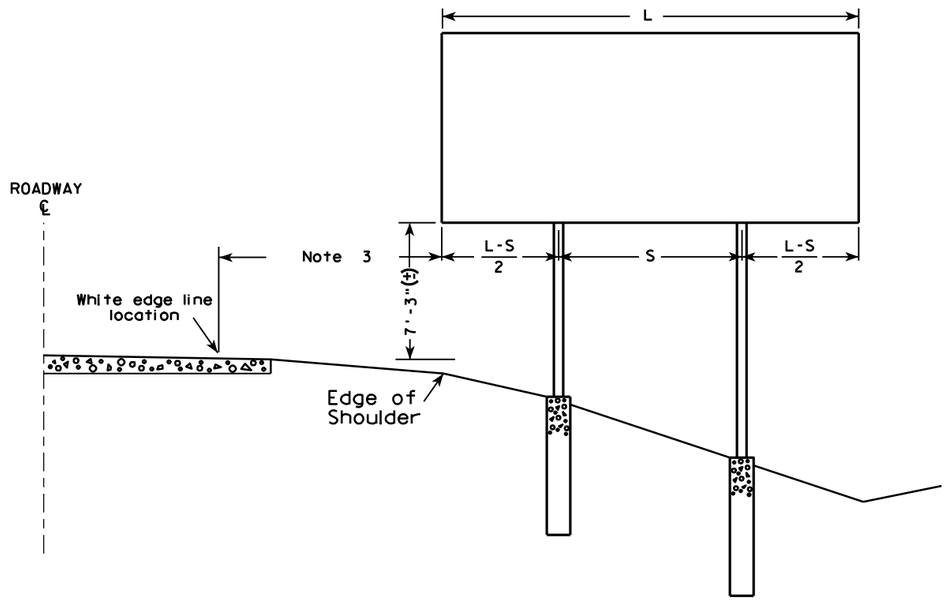
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

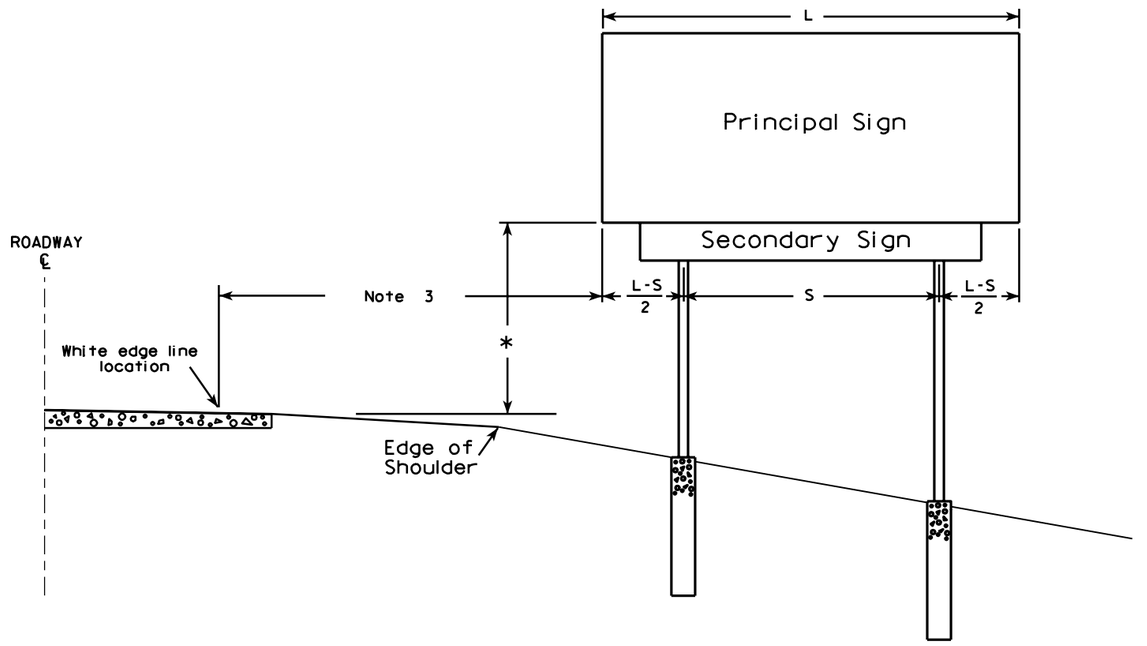
TYPE A, B, C, D, & E

CONST. SPEC. 2011 | DRAWN BY JPH | PLANS CK'D.

FTG. & SIGN SUPPORT DETAILS GROUND MOUNT BREAK-AWAY SIGNS | SHEET

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 524 | E





GENERAL NOTES

1. For a 2 post installation, S equals 3L/5, but shall not be less than 9 ft.
2. For a 3 post installation, S equals 5L/7, but shall not be less than 18 ft., and the space between any two posts shall not be less than 9 ft.
3. Unless noted in the plan, the sign offset distance shall be a minimum of 17'-6", desirable 30'-0".
4. The (±) tolerance shown on this sheet is 3 in.
5. The vertical sign height clearance detailed is measured from the bottom of the sign to the near edge of pavement.
6. Post lengths shown in the miscellaneous quantities are estimated lengths. The contractor shall verify post lengths at the time of final grading.
7. Refer to the Traffic Guidelines Manual for further guidance on minimum vertical clearance requirements.

* Clearance is 8'-3"(±) when the secondary sign is 3 ft. or less in height. For secondary signs larger than 3 ft., the clearance to the bottom of the secondary sign shall be 5'-3"(±).

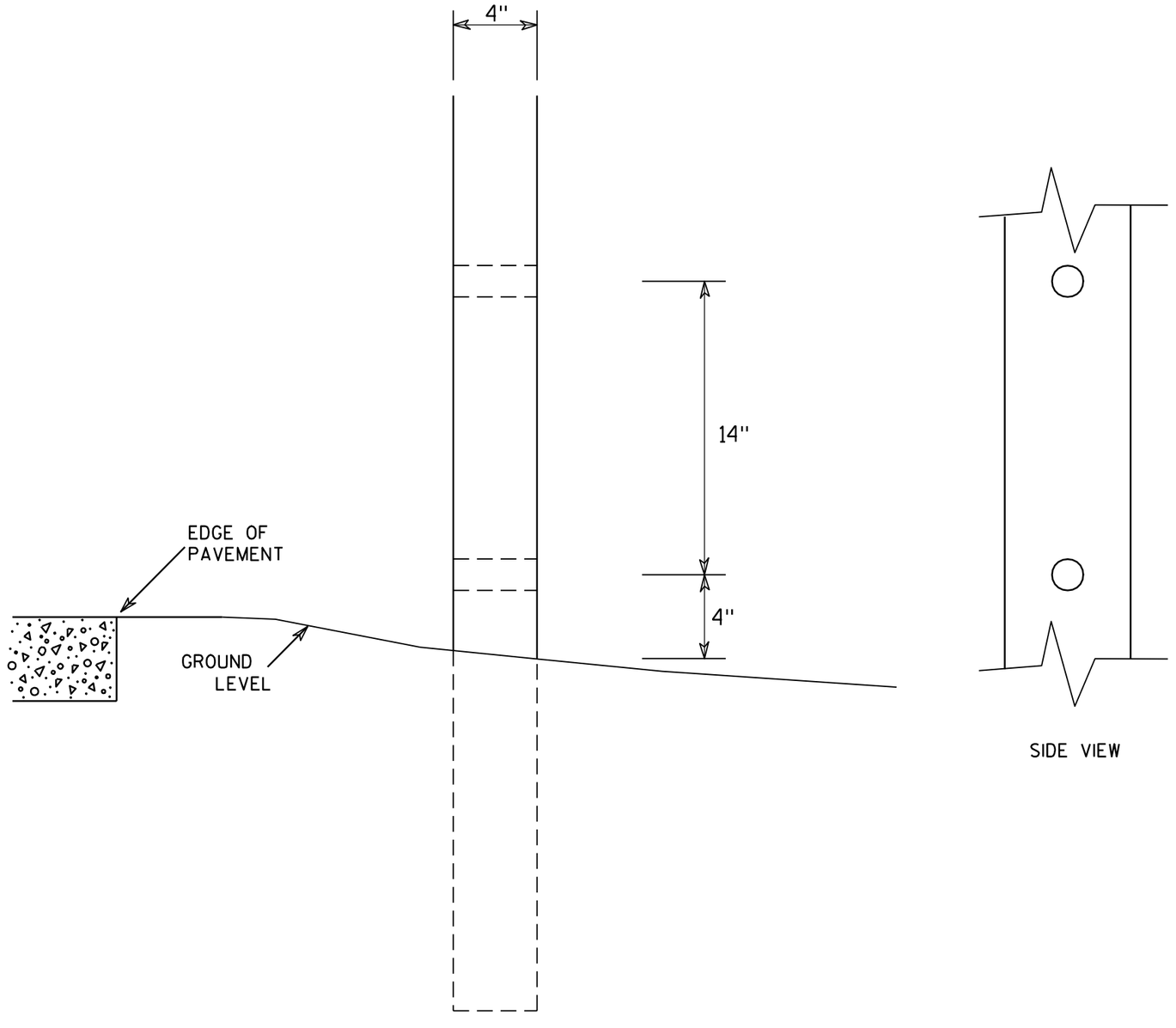
TYPICAL INSTALLATION OF TYPE I SIGNS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/02/08 PLATE NO. A4-1.9

PROJECT NO:				SHEET NO: 525	E



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

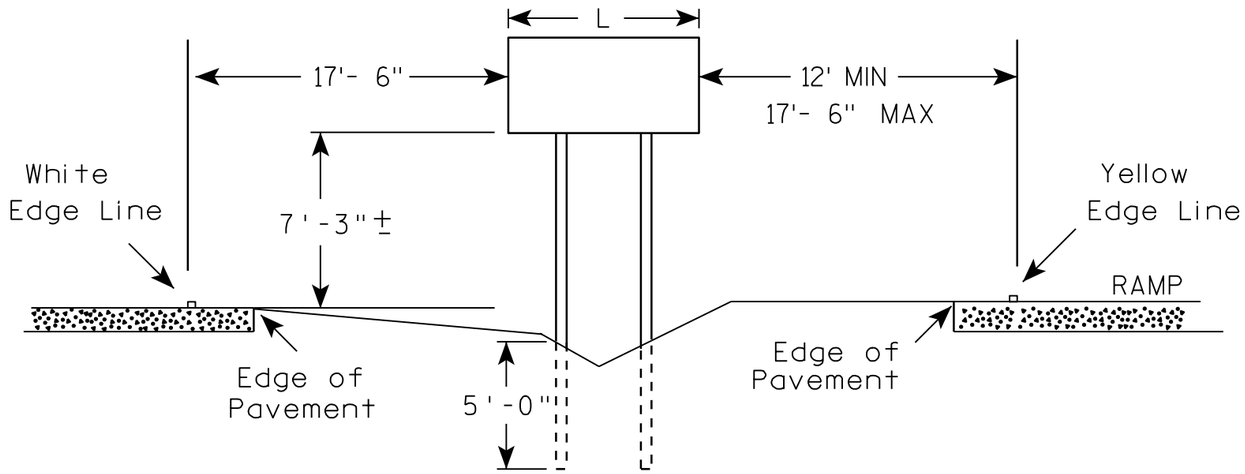
4 X 6 WOOD POST MODIFICATIONS

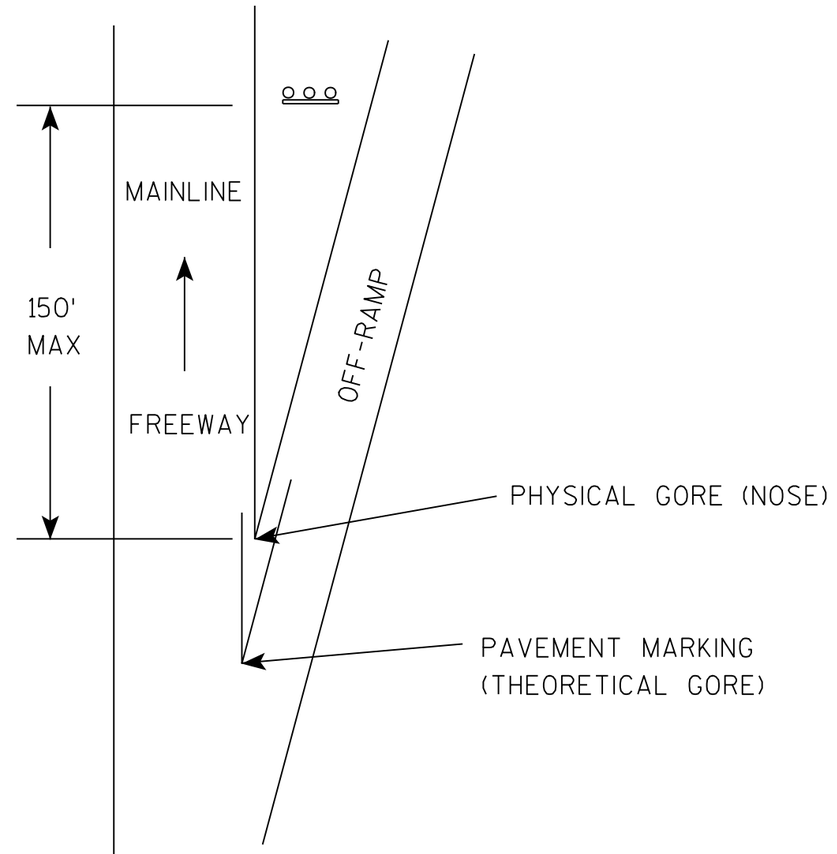
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 526	E





GENERAL NOTES

1. The 150 foot distance from the physical gore (where pavement ends) will normally provide the offsets as shown.
2. If roadway geometrics permit, the sign may be closer than the 150 foot distance as long as the offsets are maintained.
3. At no time shall the location be greater than 150 feet. If the normal offsets cannot be maintained, they can be reduced to 6 feet from the edge of the paved shoulder (both freeway and ramp).
4. The offset from edge of sign to the yellow edge line on the ramp is shown as a minimum of 12 feet and a maximum of 17 feet, 6 inches. Preference is adhering to the maximum rather than the minimum dimension.
5. When L is equal to or exceeds 9 feet, use 3 posts as per A4-4.
6. The (∓) tolerance for the mounting height is 3 inches.

7

7

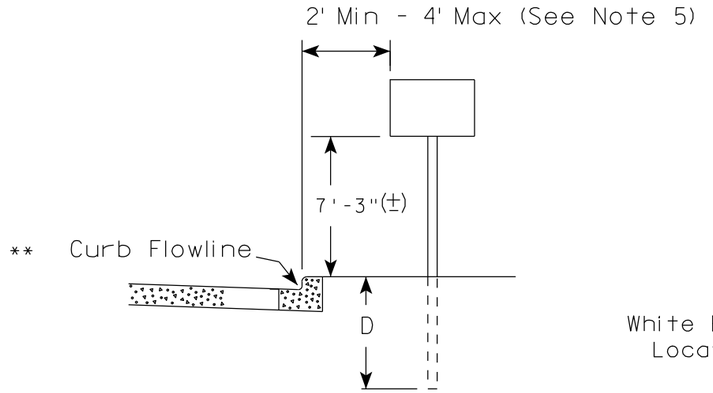
TYPICAL INSTALLATION
OF TYPE II SIGNS ON
WOOD POSTS IN GORE

WISCONSIN DEPT OF TRANSPORTATION

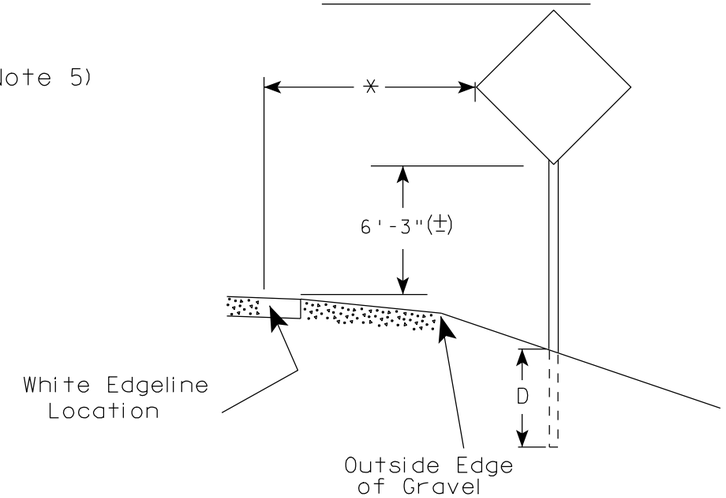
APPROVED Chester J Spang
for State Traffic Engineer

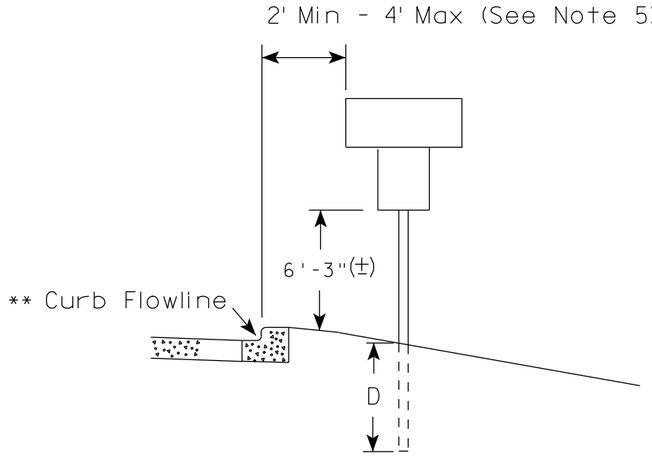
DATE 4/4/00 PLATE NO. A4-2.2

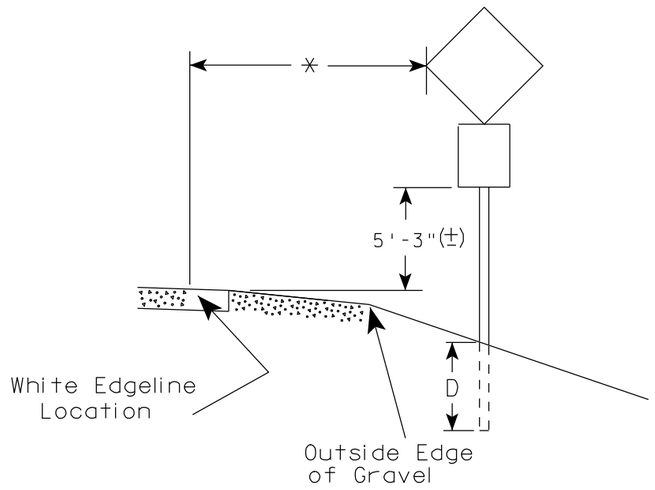
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

GENERAL NOTES

1. Signs wider than 4 feet or larger than 20 sq. ft. shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for J assemblies (A4-5) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (±) or as directed by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (W1-8A), Clearance Markers (W5-52), Mile Markers (D10 series) & End of Road Markers (W5-56 & W5-56A) shall be mounted at a height of 4'-3" (±).

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

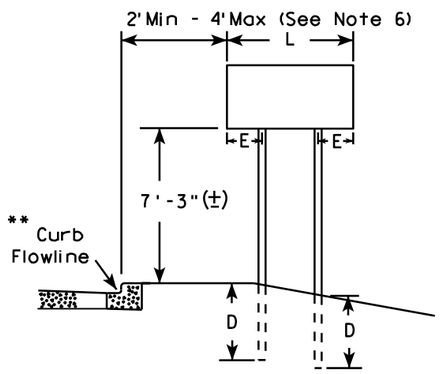
DATE 9/30/09 PLATE NO. A4-3.15

7

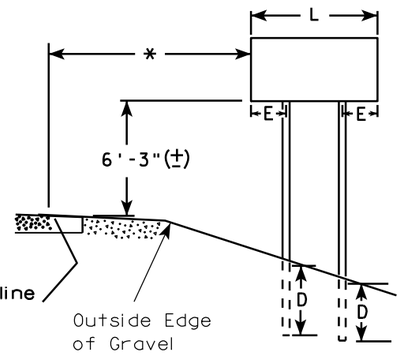
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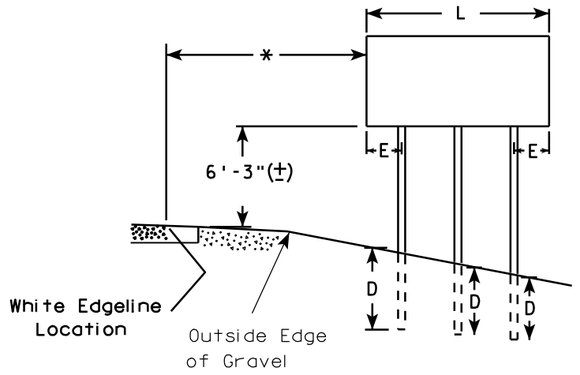
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 528 | E

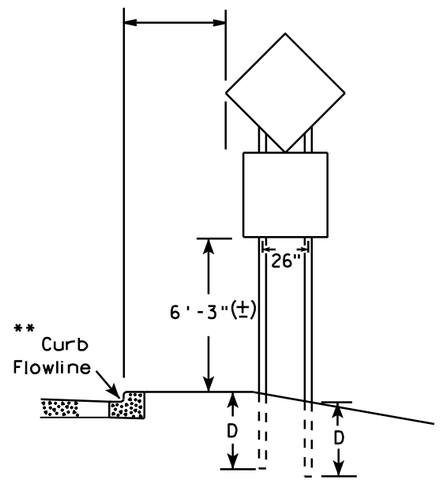
URBAN AREA



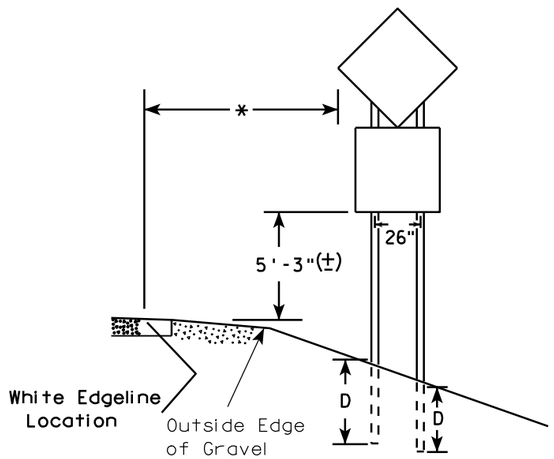
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
L	E
Greater than 48" Less than 60"	12"
60" to 120"	L/5

***

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 120" less than 168"	12"

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)	
L	E
168" and greater	12"

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. For multiple post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. Minimum mounting height for J assemblies (A4-5) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (W1-8A), Clearance Markers (W5-52), Mile Markers (D10 series) & End of Road Markers (W5-56 & W5-56A) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width or 20 S.F. or less in area.

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

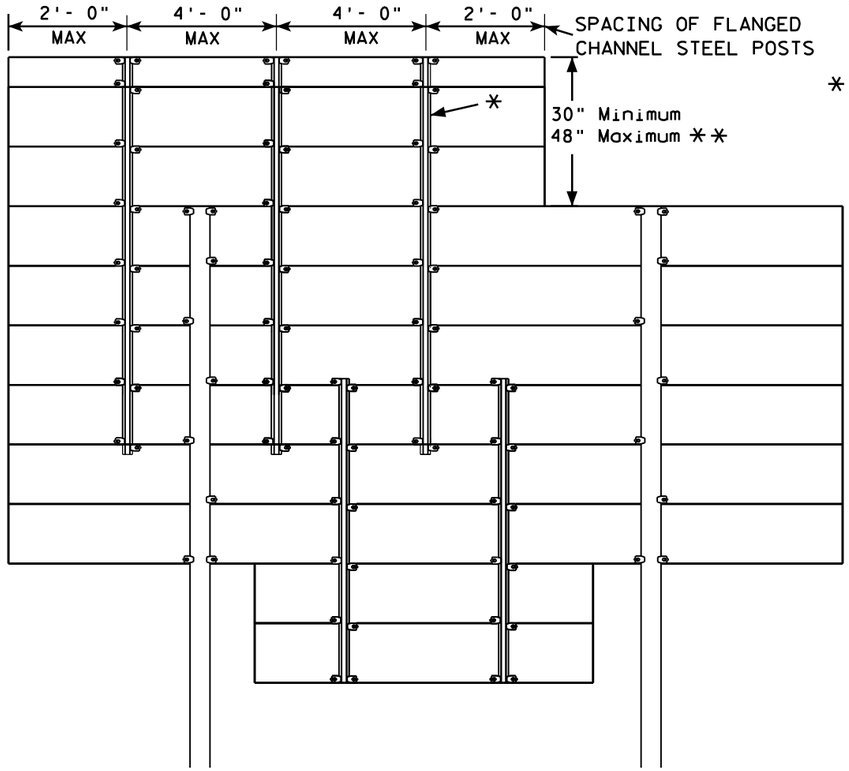
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. A4-4.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 529	E

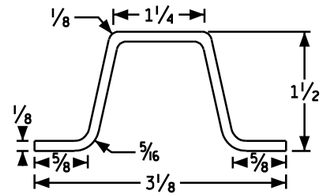
GROUND MOUNTED SIGN



*=2.00 lb/ft FLANGED CHANNEL, MIN. YIELD STRENGTH = 60,000 PSI (GRADE 60) GALVANIZED

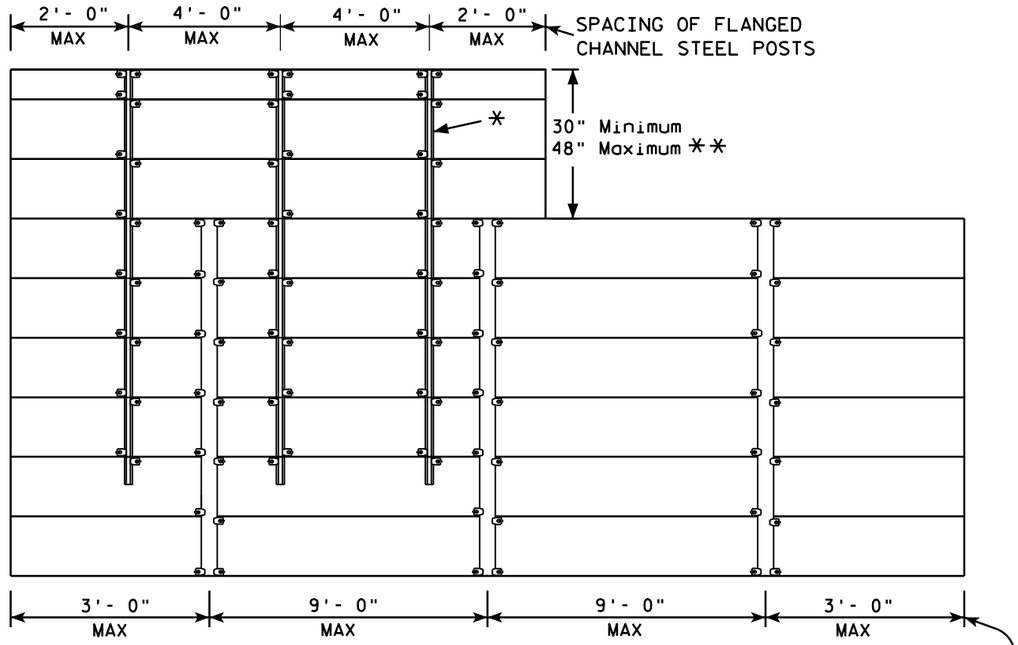
**=FOR 48" HEIGHT PANELS ON OVERHEAD STRUCTURES, ENTIRE SIGN SHALL BE CENTERED VERTICALLY ABOUT THE DEPTH OF THE TRUSS.

FLANGE CHANNEL DETAIL



NOT TO SCALE

SIGN BRIDGE MOUNTED SIGN



GENERAL NOTES

1. Flanged channel steel posts shall conform to size and material above, and shall be considered as incidental to other items in the contract.
2. Number of Flanged channel steel supports varies with length of panel and shall be spaced as shown:

   PANEL LENGTH 8'-0" OR LESS = 2 CHANNELS
   PANEL LENGTH 9'- 0" - 12'- 0" = 3 CHANNELS
   PANEL LENGTH 13'- 0" OR MORE = 4 CHANNELS

   If the flanged channel steel posts can not be horizontally spaced as shown, they can be moved so as to securely hold the sign.
3. The EXIT NUMBER PANEL shall normally be positioned above the guide sign aligned with the right edge of the guide sign. If the guide sign indicates a left exit, the EXIT NUMBER PANEL shall be aligned with the left edge of the guide sign.
4. If the bolt holes in the top panel (EXIT NUMBER), or sub panel (NEXT EXIT) line up with holes in main sign panel, stitch bolts shall be used in addition to the channels.
5. Provide post clips for each sign as shown. (Please note the differences between a ground mounted versus Sign bridge mounted sign as far as number of clips required on the main supports or beams)

7

7

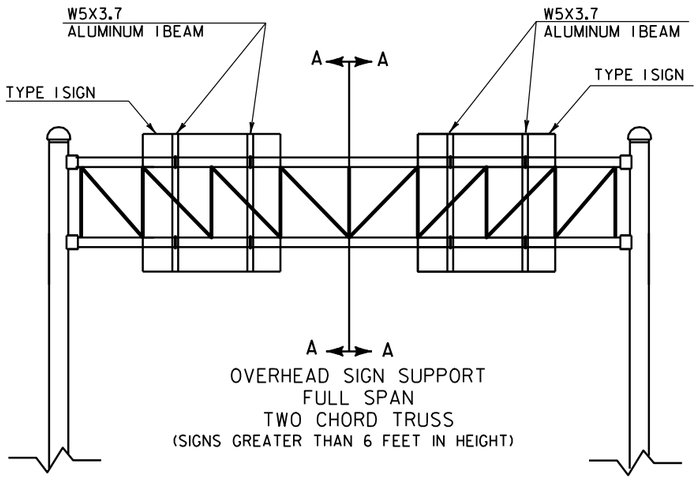
ATTACHMENT OF GUIDE SIGNS TO SUPPORTS

WISCONSIN DEPT OF TRANSPORTATION

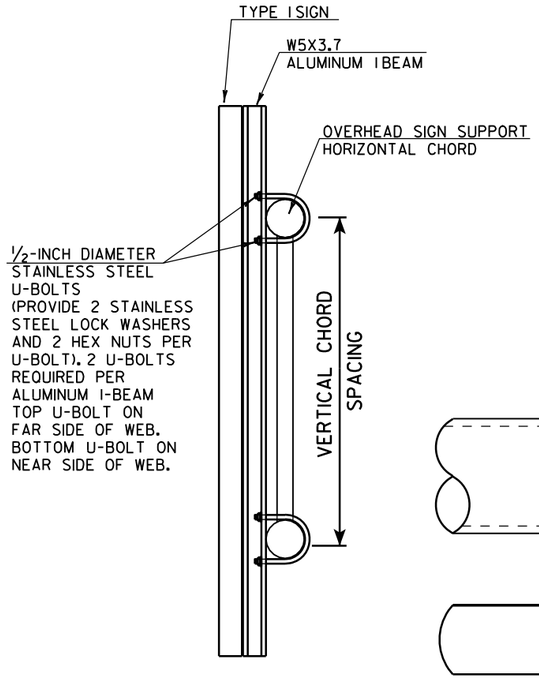
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. A4-6.11

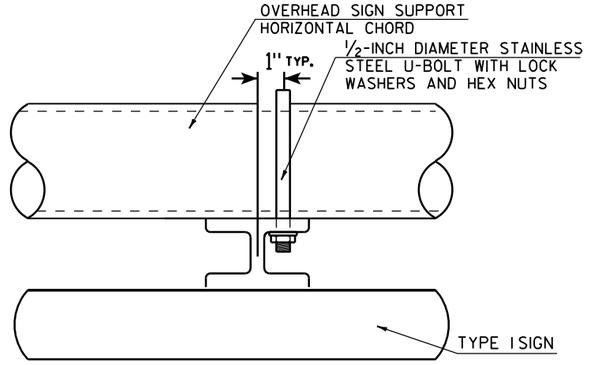
PROJECT NO:				SHEET NO: 530	E



OVERHEAD SIGN SUPPORT
FULL SPAN
TWO CHORD TRUSS
(SIGNS GREATER THAN 6 FEET IN HEIGHT)



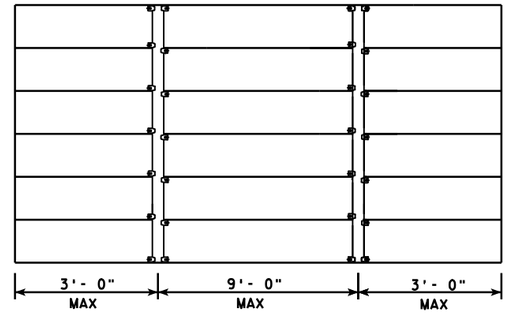
CUT SECTION A-A



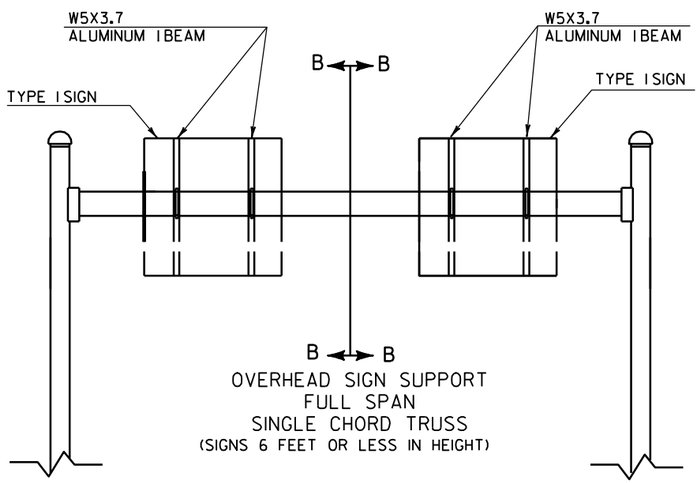
TYPICAL SIGN CONNECTION FOR
TWO CHORD TRUSS
PLAN VIEW

GENERAL NOTES

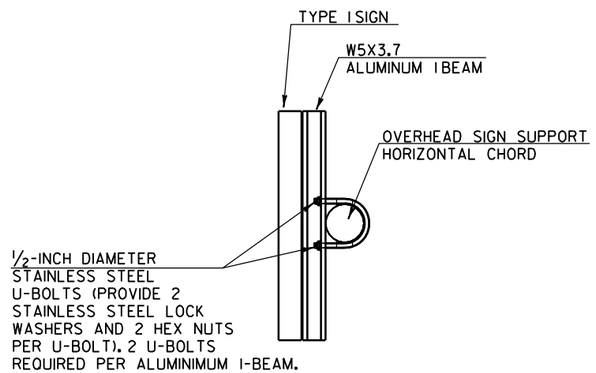
1. USE STAINLESS STEEL U-BOLTS, WASHERS, AND NUTS.
2. USE CLIPS ON EVERY EXTRUDED PANEL JOINT PER SIGN PLATE A4-6.
3. USE ALUMINUM VERTICAL SIGN SUPPORT BEAMS HAVING A 5 INCH BEAM DEPTH AND WEIGHT OF 3.7 LBS PER FOOT.
4. U-BOLTS SHALL BE STAINLESS STEEL AND MANUFACTURED TO THE PROPER SIZE TO FIT THE CHORDS OF THE OVERHEAD SIGN STRUCTURE.
5. DIAMETER OF U-BOLTS SHALL BE AS SHOWN.
6. THE LENGTH OF THE ALUMINUM VERTICAL SIGN SUPPORT BEAMS SHALL BE THE SAME AS THE HEIGHT OF THE SIGN THEY ARE SUPPORTING. BEAM LENGTHS MAY BE LONGER FOR PROPER ATTACHMENT TO CHORDS.
7. MINIMUM NUMBER OF BRACKETS PER SIGN IS TWO. SEE DETAIL BELOW FOR SPACING OF ALUMINUM VERTICAL SIGN SUPPORTS
8. MATERIAL NOTES:
   STAINLESS STEEL U-BOLTS AND LOCKWASHERS ASTM 304.
   STAINLESS STEEL HEX NUTS ASTM A276.
   ALUMINUM I-BEAMS ARE 6061-T6.



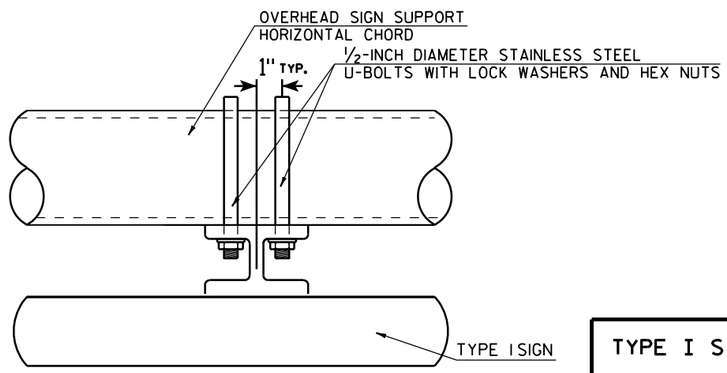
SPACING OF W5X3.7 ALUMINUM
VERTICAL SIGN SUPPORT



OVERHEAD SIGN SUPPORT
FULL SPAN
SINGLE CHORD TRUSS
(SIGNS 6 FEET OR LESS IN HEIGHT)



CUT SECTION B-B



TYPICAL SIGN CONNECTION FOR
SINGLE CHORD TRUSS
PLAN VIEW

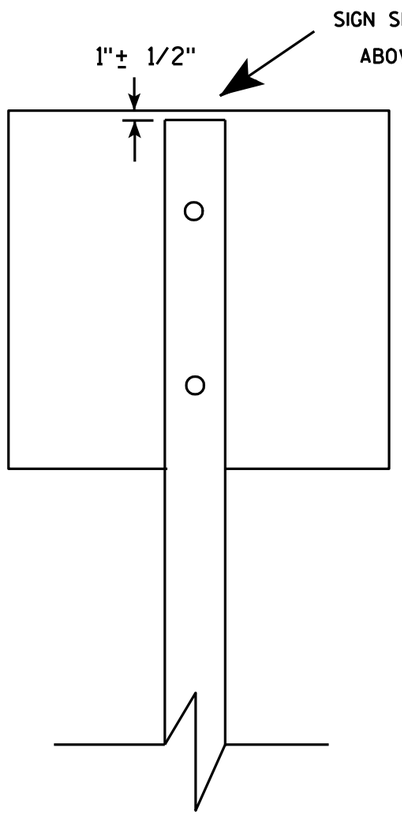
TYPE I SIGN CONNECTION TO OVERHEAD SIGN SUPPORT

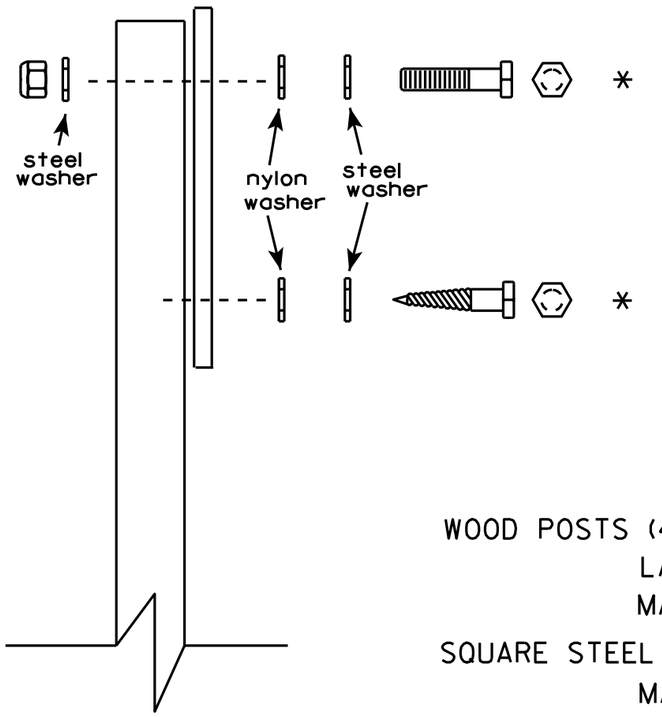
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/26/10 PLATE NO. A4-7.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 531	E





Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

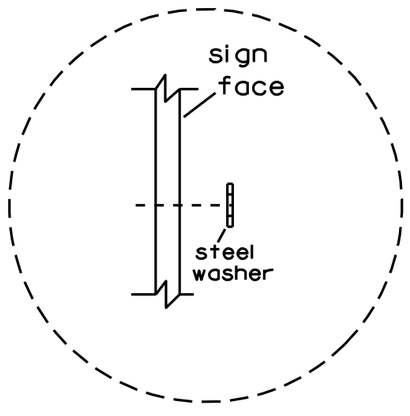
a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

WOOD POSTS (4" x 4" or 4" x 6")
LAG SCREWS - 3/8" X 3"
MACHINE BOLTS - 5/16" X 6-1/2" or 7" Length w/ nuts

SQUARE STEEL POSTS (2" x 2")
MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts
RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON for all Type H signs.



Washer Placement when Sign Has Other Than Type H or Type F Face

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/23/10 PLATE NO. A4-8.7

7

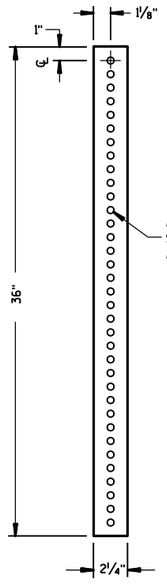
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PROJECT NO:

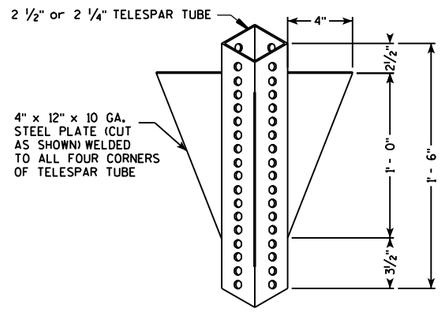
SHEET NO: 532 E

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

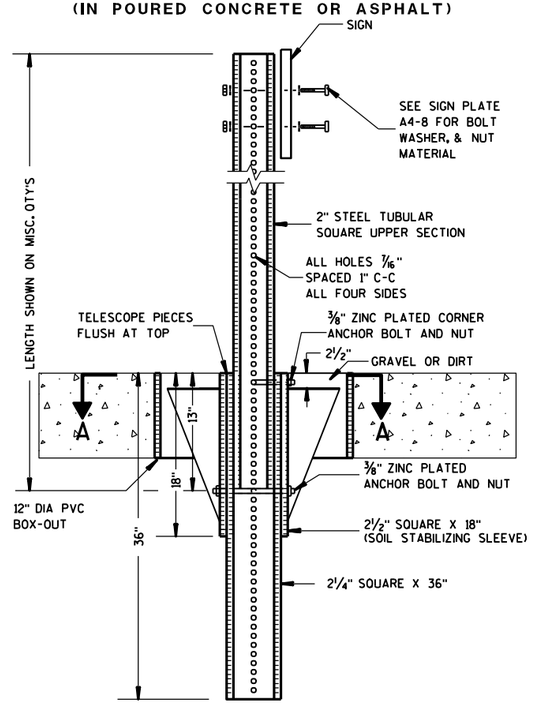
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



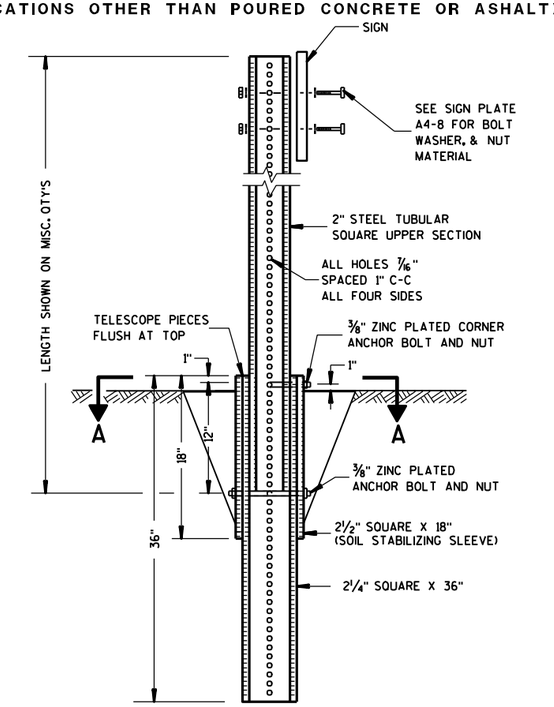
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

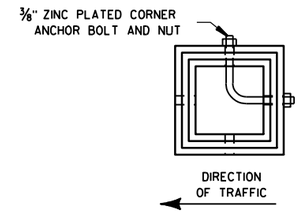


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

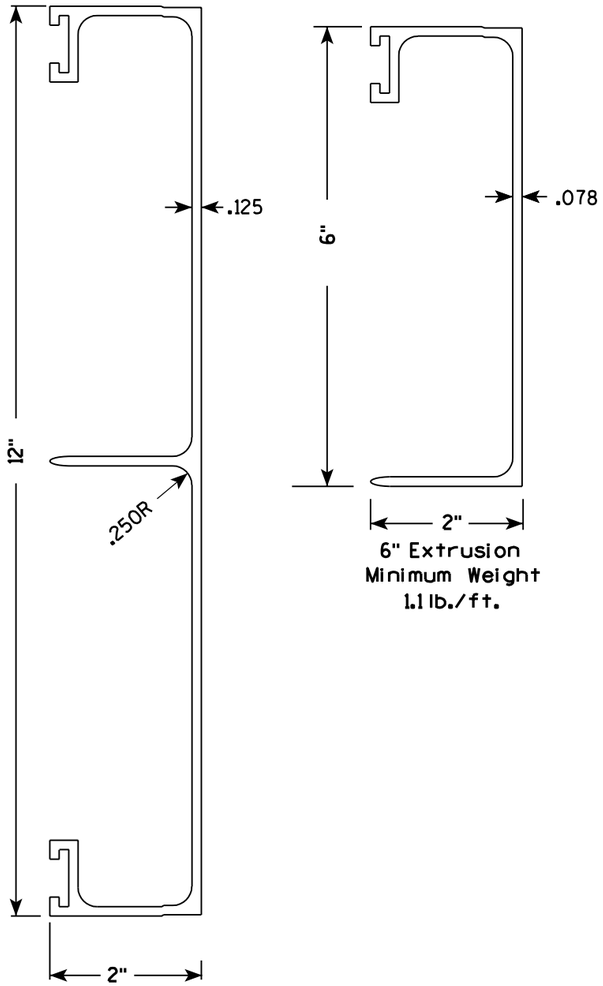
TUBULAR STEEL SIGN POST A4-9

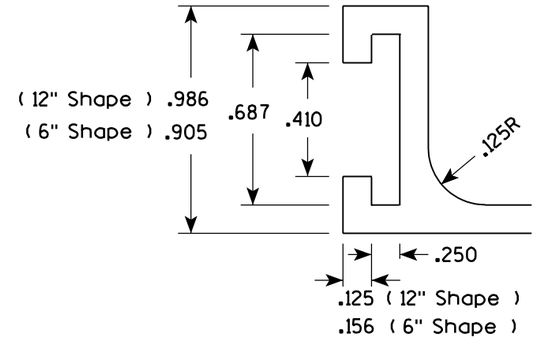
WISCONSIN DEPT OF TRANSPORTATION

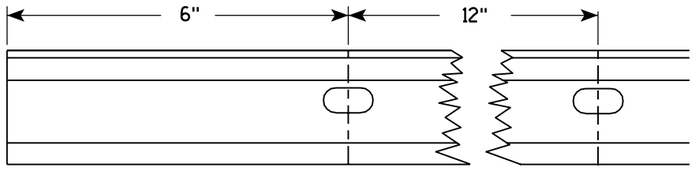
APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/9/11 PLATE NO. A4-9.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 533	E

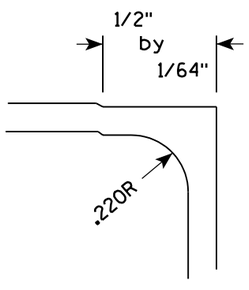
Extruded Shape







Punch 7/16" x 7/8" oval holes beginning 6" in from end of extrusion 12" CC on both edges of 6" and 12" panels.

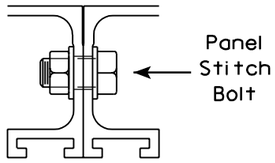


Hardware

STITCH BOLT, WASHER & NUT

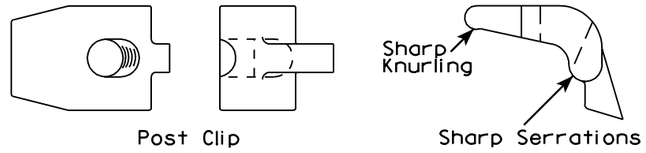
The hardware includes:

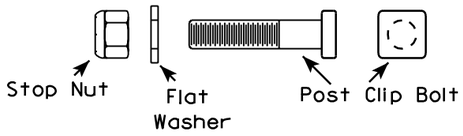
3/8 " - 16 X 3/4 " Economy Bolt 2024-T4 alloy
3/8 " - Stainless steel stop nut
3/8" X .064 Flat Washers, Alclad 2024-T4 alloy



POST CLIP, POST CLIP BOLT, WASHER & NUT

Post Clip shall be Alum. Alloy 356-T6
Post Clip Bolt shall be Stainless Steel.
Flat washer shall be 3/8" X .091, Stainless Steel.
Stop nut shall be stainless steel.





NOTES

1. The contractor may select any brand of extrusion that conforms to the illustrations or meets with the approval of the engineer, but all extrusions used on this contract shall be of the same brand.
2. Panel Stitch Bolts shall be used to assemble adjacent panels. Maximum stitch bolt spacing shall be 24" C-C, and a minimum of 4 bolts shall be used to connect any two extrusions.
3. Post Clips shall be used to attach the sign panel to the sign support.

ALUMINUM EXTRUSIONS FOR TYPE I SIGNS

WISCONSIN DEPT OF TRANSPORTATION

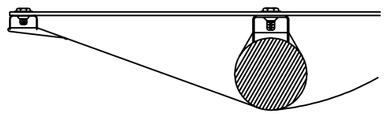
APPROVED Chester J Spagg
for State Traffic Engineer

DATE 11/18/99 PLATE NO. A5-2.9

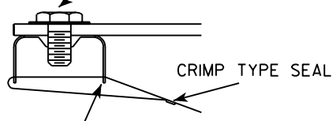
PROJECT NO:

SHEET NO: 534 E

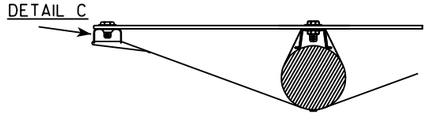
BRACE BANDING

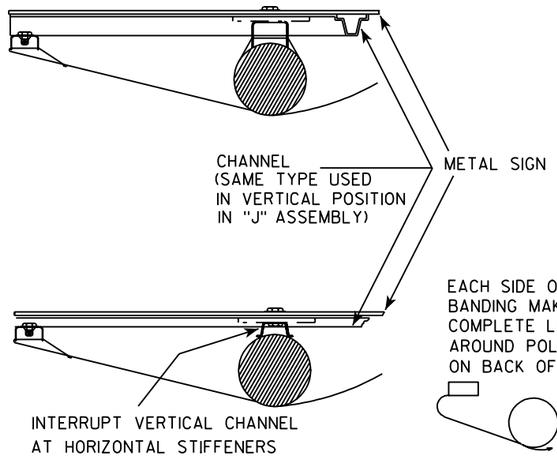


DETAIL C
CADMIUM PLATED STEEL BOLT
THROUGH BLACK BORDER



DETAIL C

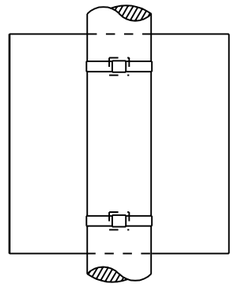


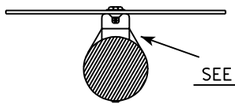


EACH SIDE OF BRACE
BANDING MAKES ONE
COMPLETE LOOP
AROUND POLE-SEAL
ON BACK OF POLE

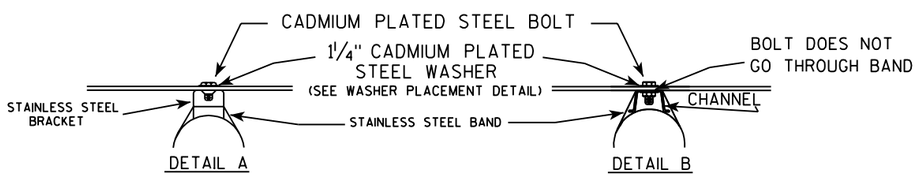
BRACKET BANDING

SINGLE SIGN





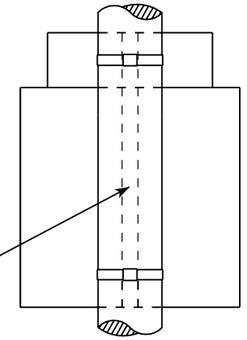
SEE DETAIL A



DETAIL A

DETAIL B

"J" ASSEMBLY

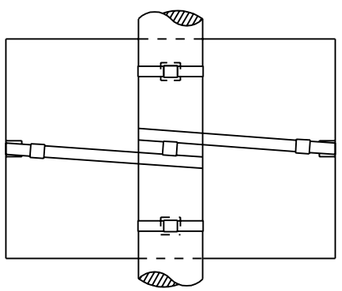


CHANNEL
SEE TYPICAL PANEL
INSTALLATION SHEET

SEE DETAIL B

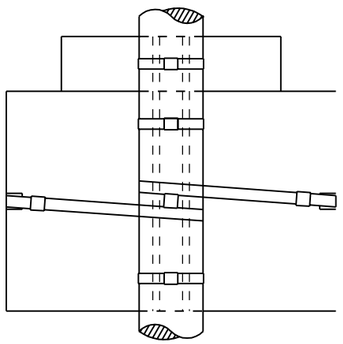
GENERAL NOTES

1. Signs 4' or greater in width shall have one brace band installed at the center of the sign.
2. Signs 3' or greater in height shall have three bracket bands installed. Signs less than 3' in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.

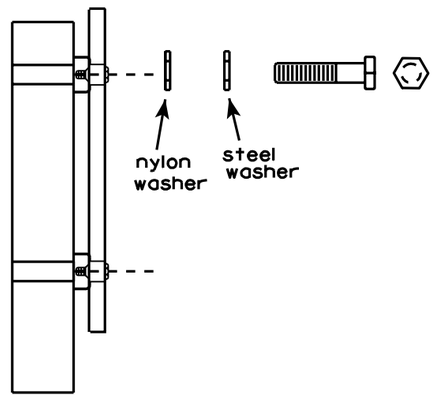


BRACE BANDING

BRACE BANDING SHALL BE TIGHTENED FIRMLY BUT NOT SO TIGHT AS TO APPRECIABLY CURVE FACE OF SIGN.



WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

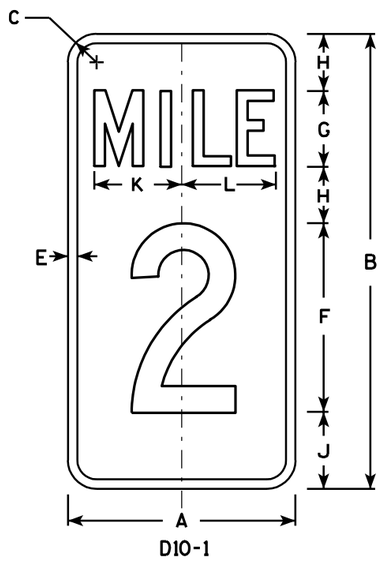
STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

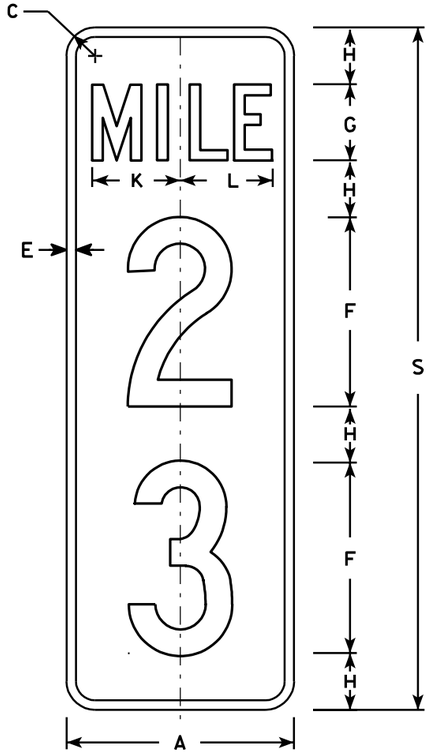
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/08/05 PLATE NO. A5-9.2

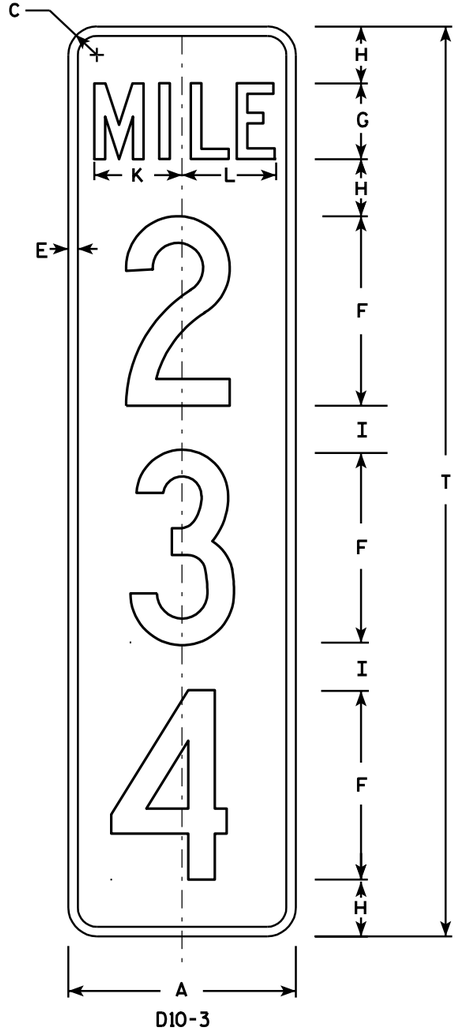
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 535	E



D10-1



D10-2



D10-3

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message - White - Type H Reflective
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Optically adjust numerals about the centerline of the sign to achieve proper balance.

Metric equivalent for this sign is:

PHY. SIZE	
12 X 24	300 mm X 600 mm
12 X 36	300 mm X 900 mm
12 X 48	300 mm X 1200 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2																										
3																										
4	12	24	1 ½		½	10	4	3	2 ½	4	4 ⅝	4 ⅞							36	48						
5	12	24	1 ½		½	10	4	3	2 ½	4	4 ⅝	4 ⅞							36	48						

D10-1	D10-2	D10-3
Area sq. ft.	Area sq. ft.	Area sq. ft.
2.0	3.0	4.0
Area m2	Area m2	Area m2
.19	.28	.38

STANDARD SIGN
D10-1 , D10-2 & D10-3

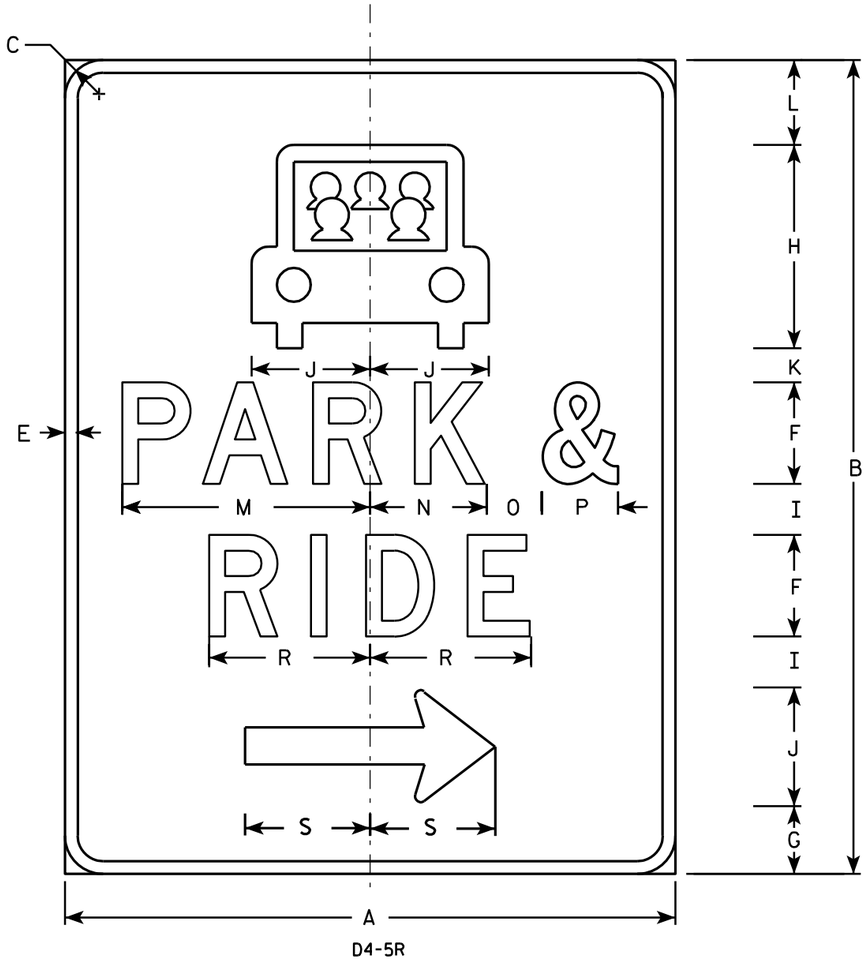
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for Director, Office of Traffic

DATE 1/16/02 PLATE NO. D10-3.2

PROJECT NO:

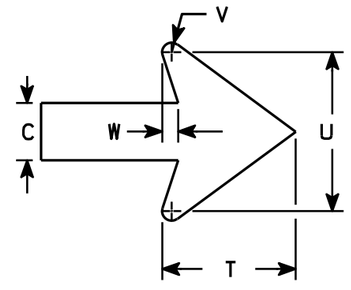
SHEET NO: 536 E



D4-5R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message - White - Type H Reflective
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The D4-5L is the same as a D4-5R except the arrow is reversed.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	36	1 3/8		5/8	5	1 3/8	9	2	5	1 5/8	5	11 3/4	5 1/2	2 3/4	3 3/4		8	6 1/8	4	4 3/8	3/8	1/2				7.50
3	36	48	2 1/4		3/4	6	4	12	3	7	2	5	14 5/8	6 7/8	3 1/4	4 1/2		9 1/2	7 1/2	5 1/4	6 1/4	3/8	5/8				12.0
4																											
5																											

STANDARD SIGN
D4-5 L&R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/15/10 PLATE NO. D4-5.2

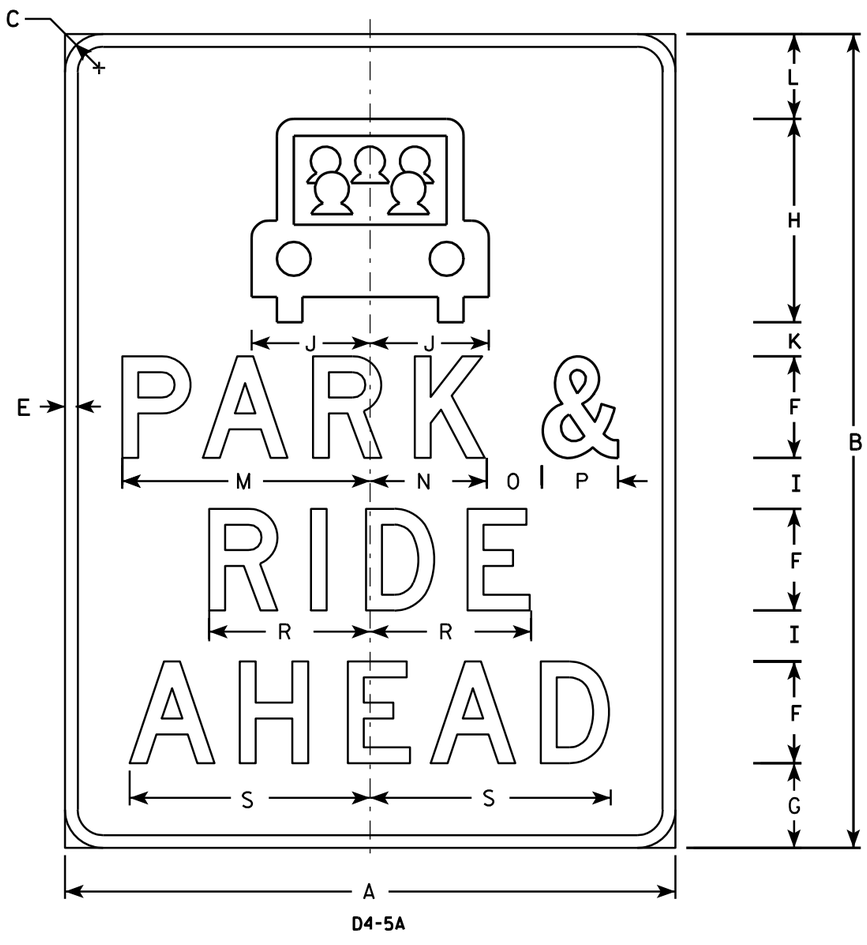
PROJECT NO: | SHEET NO: 537 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\D45.DGN PLOT DATE : 15-NOV-2010 14:08 PLOT BY : dotsja

WISDOT/CADDS SHEET 42

7

7



D4-5A

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message - White - Type H Reflective
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	30	1 1/8		1/2	4	2 7/8	7 1/2	2	4 3/4	1 3/8	2 1/4	9 3/4	4 5/8	2 3/4	3		6 3/8	9 1/8								5.0
2	30	36	1 3/8		5/8	5	3 3/8	9	2	5 7/8	1 5/8	3	12 1/4	5 1/8	3 3/8	3 3/4		8	11 3/8								7.5
3	36	48	2 1/4		3/4	6	5	12	3	7	2	5	14 5/8	6 7/8	3 1/4	4 1/2		9 1/2	14 1/4								12.0
4																											
5																											

STANDARD SIGN
D4-5A

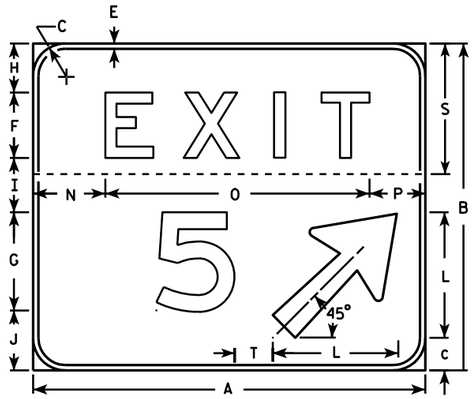
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

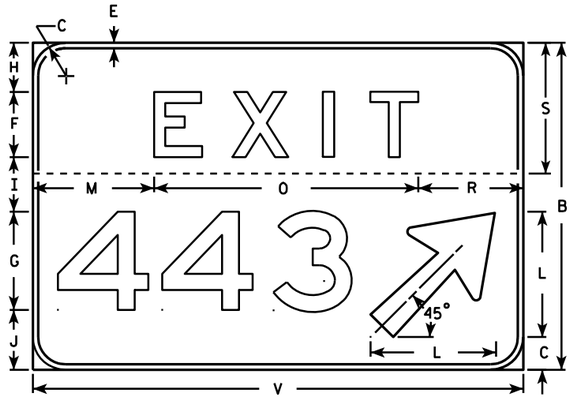
DATE 2/10/2011 PLATE NO. D4-5A.2

PROJECT NO:

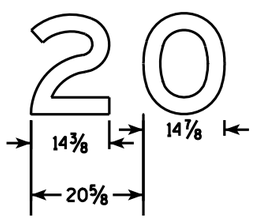
SHEET NO: 538 E



NOTE: T diminision shall be measured from the back of the number to the front of the arrow



EXAMPLE FOR USING SPACING CHART



NOTES

1. Sign is Type II - Type H reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message - White (Type H reflective)
3. Message Series - E
4. Corners may be square or rounded but the border shall be rounded as shown.
5. Base material for this sign shall be plywood and shall be split into two seperate pieces as shown on each detail by the dashed line (----------).
6. Arrow is Type "A" from sign plate A1-1.
7. Substitute appropriate message, space per the table and adjust placement on sign to achieve proper balance.
8. As per the Standard Spec's, these signs shall not have a vertical joint.

SPACING CHART FOR 18" NUMERALS

NUMBERS	WIDTH	0	1	2	3	4	5	6	7	8	9	A	B	C
0	14 7/8	21 5/8	21 5/8	21 1/4	20 3/8	21 1/4	21 1/4	21 5/8	19 7/8	22 1/8	21 5/8			
1	5 7/8	14	14	14	13 1/8	12 1/8	14	14	12 1/4	14	14			
2	14 3/8	20 5/8	21 1/8	20 5/8	19 3/4	20 1/4	20 5/8	20 5/8	18 7/8	21 1/8	20 5/8			
3	14 3/8	20 3/4	21 1/8	20 3/4	20 1/4	19 3/4	20 3/4	20 3/4	19 3/8	21 1/8	20 3/4			
4	16 5/8	22 7/8	22	22 1/2	21 5/8	21 5/8	22 7/8	22 7/8	20 5/8	23 3/8	22 7/8			
5	14 1/4	20 5/8	20 5/8	20 1/8	18 3/4	18 3/4	20 5/8	20 5/8	18 3/8	20 5/8	20 5/8			
6	14 1/2	21 1/4	20 3/4	20 3/4	19 7/8	19 1/2	20 3/8	20 3/4	19	20 3/4	20 3/8			
7	14 3/8	19 3/4	19 3/4	20 1/4	19 3/4	17	19 3/4	20 5/8	18 7/8	20 5/8	19 3/4			
8	14 1/4	21 1/2	21 1/2	20 5/8	19 1/4	19 3/4	20 5/8	21 1/2	19 5/8	21 1/2	20 5/8			
9	14 1/2	21 1/4	21 1/4	20 7/8	20	20 7/8	20 7/8	21 1/4	19 1/2	21 3/4	21 1/4			
A	18	19 3/4	19 3/4	20 1/4	19 3/4	17	19 3/4	20 5/8	18 7/8	20 5/8	19 3/4	21 5/8	23 7/8	23
B	14 1/4	21 1/2	21 1/2	20 5/8	19 1/4	19 3/4	20 5/8	21 1/2	19 5/8	21 1/2	20 5/8	19 1/2	22 3/8	21 1/2
C	14 1/4	21 1/4	21 1/4	20 7/8	20	20 7/8	20 7/8	21 1/4	19 1/2	21 3/4	21 1/4	18 3/8	21	19 3/4

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
2																										
3																										
4																										
5	72	60	6		1	12	18	9	10	11	8 7/8	23	22 1/4	13 1/4	48 1/2	10 1/4		19 1/4	24	7		90		96	7 1/2	

1-2 Digit Bid Area	3 Digit Bid Area
Sq. Ft.	
30	37.5

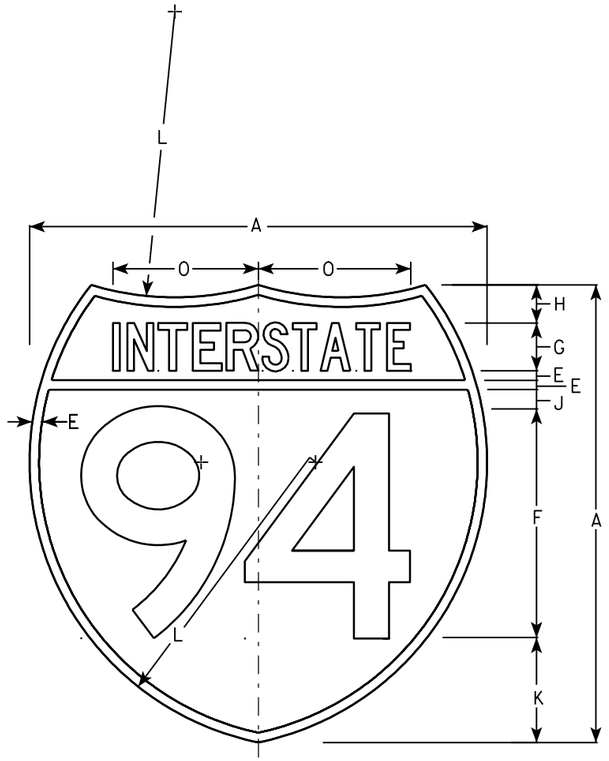
STANDARD SIGN
E5-1A

WISCONSIN DEPT OF TRANSPORTATION

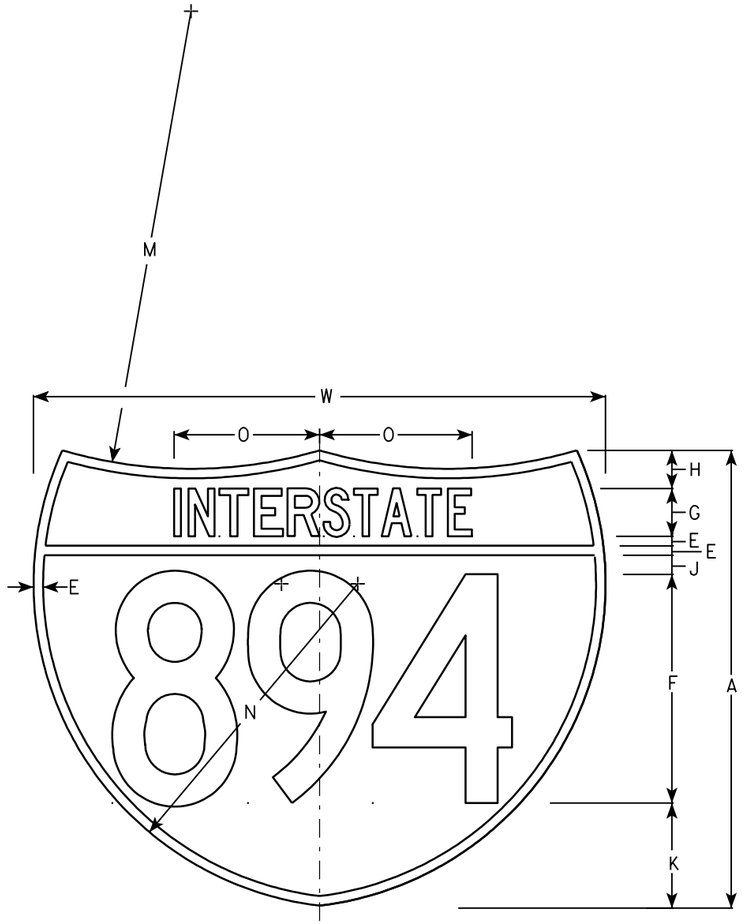
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 5/11/10 PLATE NO. E5-1A.12

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 539 | E



M1-1



M1-1A

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Top Red - Bottom Blue (See Note 6)
   Message - White - See Note 6
3. Message Series - See note 5
4. Substitute appropriate numerals & ajust spacing as per plate A10-1.
5. M1-1 - Numerals - D
   Interstate - C
   M1-1A - All copy - C
6. Permanent Signs
   Message - Type H Reflective
   Detour or other temporary signs
   Background - Reflective
   Message - Reflective

Metric equivalent for these signs are:

SIZE	M1-1	SIZE	M1-1A
1			
2	600 mm X 600 mm	2	600 mm X 750 mm
3	900 mm X 900 mm	3	900 mm X 1125 mm
4	900 mm X 900 mm	4	900 mm X 1125 mm
5	900 mm X 900 mm	5	900 mm X 1125 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	M1-1 Area sq. ft.	M1-1A Area sq. ft.	M1-1 Area m2	M1-1A Area m2
1																													
2	24				1/2	12	2 1/2	2		1	5 1/2	15	24	17	7 7/8								30			3.13	3.91	.36	.46
3	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
4	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
5	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05

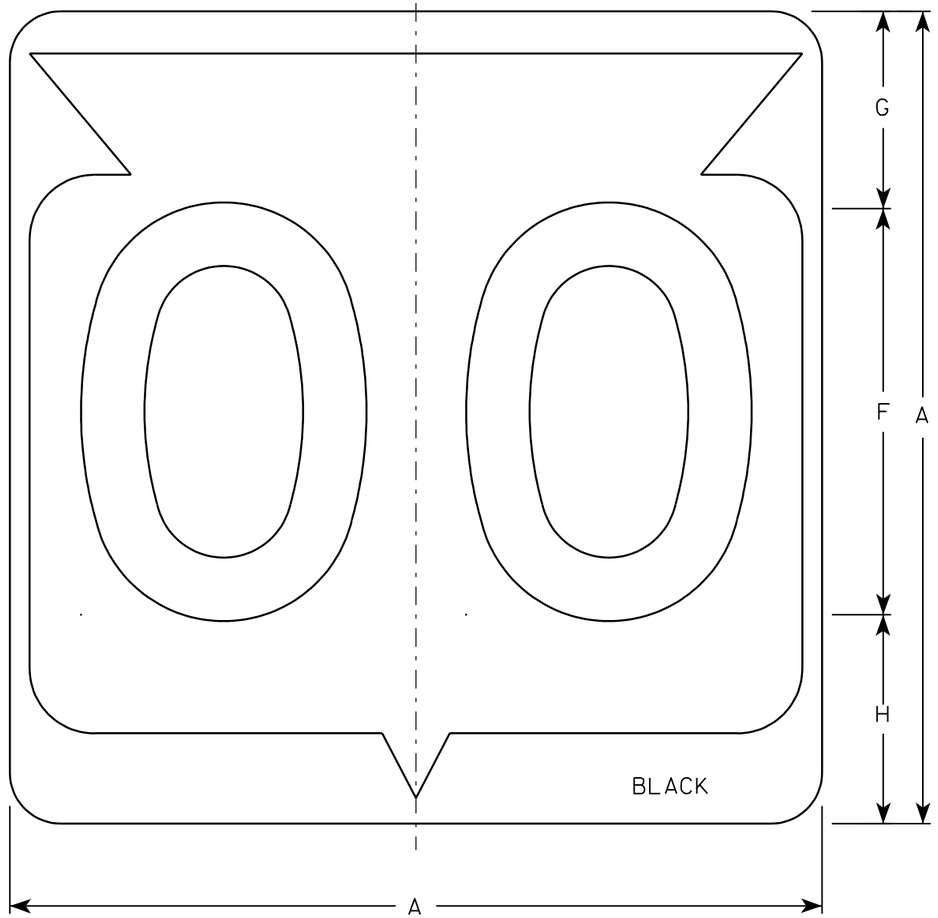
INTERSTATE ROUTE MARKER
M1-1 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 08/23/05 PLATE NO. M1-1.8

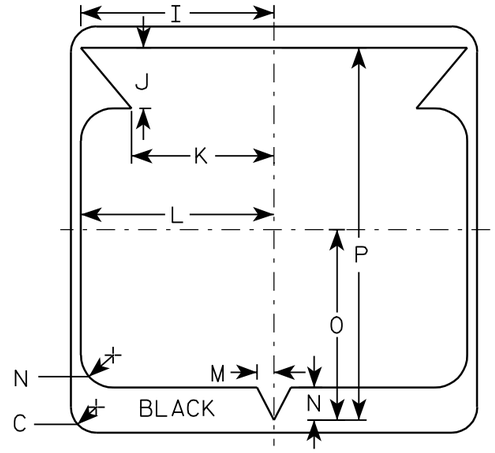
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 540	E



M1-6

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 6
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate Series numerals and adjust spacing as per plate A10-1.
6. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective



Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	900 mm X 900 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0	.36
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81

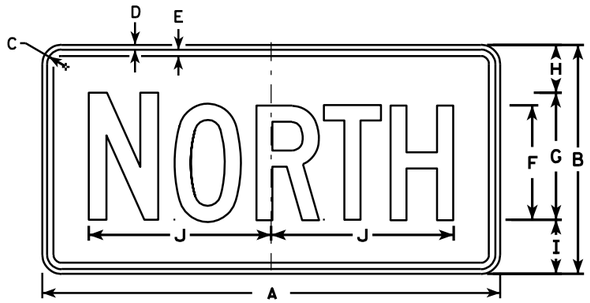
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

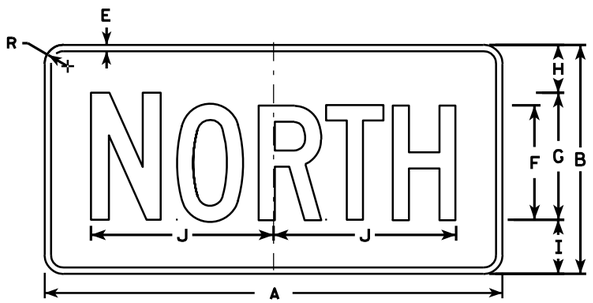
APPROVED *Chester J Spang* for State Traffic Engineer

DATE 3/20/02 PLATE NO. M1-6.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 541	E



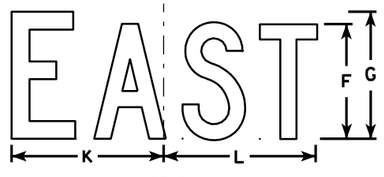
M3-1
MK3-1
MO3-1



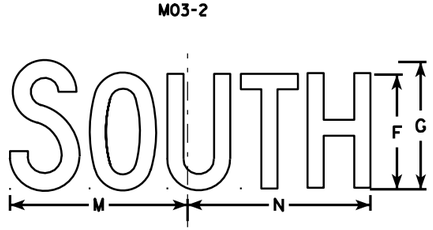
MB3-1
MG3-1
MM3-1
MN3-1



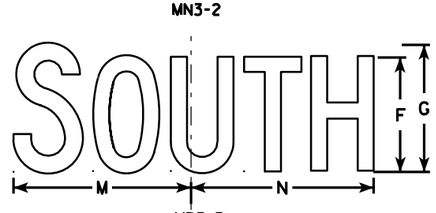
M3-2
MK3-2
MO3-2



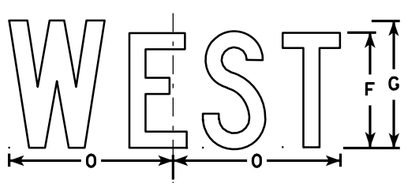
MB3-2
MG3-2
MM3-2
MN3-2



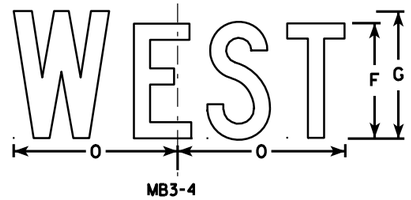
M3-3
MK3-3
MO3-3



MB3-3
MG3-3
MM3-3
MN3-3



M3-4
MK3-4
MO3-4



MB3-4
MG3-4
MM3-4
MN3-4

NOTES

1. All Signs Type II - See Note 5 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White - Type H Reflective
   (Detour or temporary signs - Reflective)
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White - Type H Reflective
   (Detour or temporary signs - Reflective)
   MG3-1 thru MG3-4 Background - Green
   Message - White - Type H Reflective
   MK3-1 thru MK3-4 Background - Green
   Message - White - Type H Reflective
   MM3-1 thru MM3-4 Background - White - Type H Reflective
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White - Type H Reflective
   M03-1 thru M03-4 Background - Orange - Reflective
   Message - Black
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

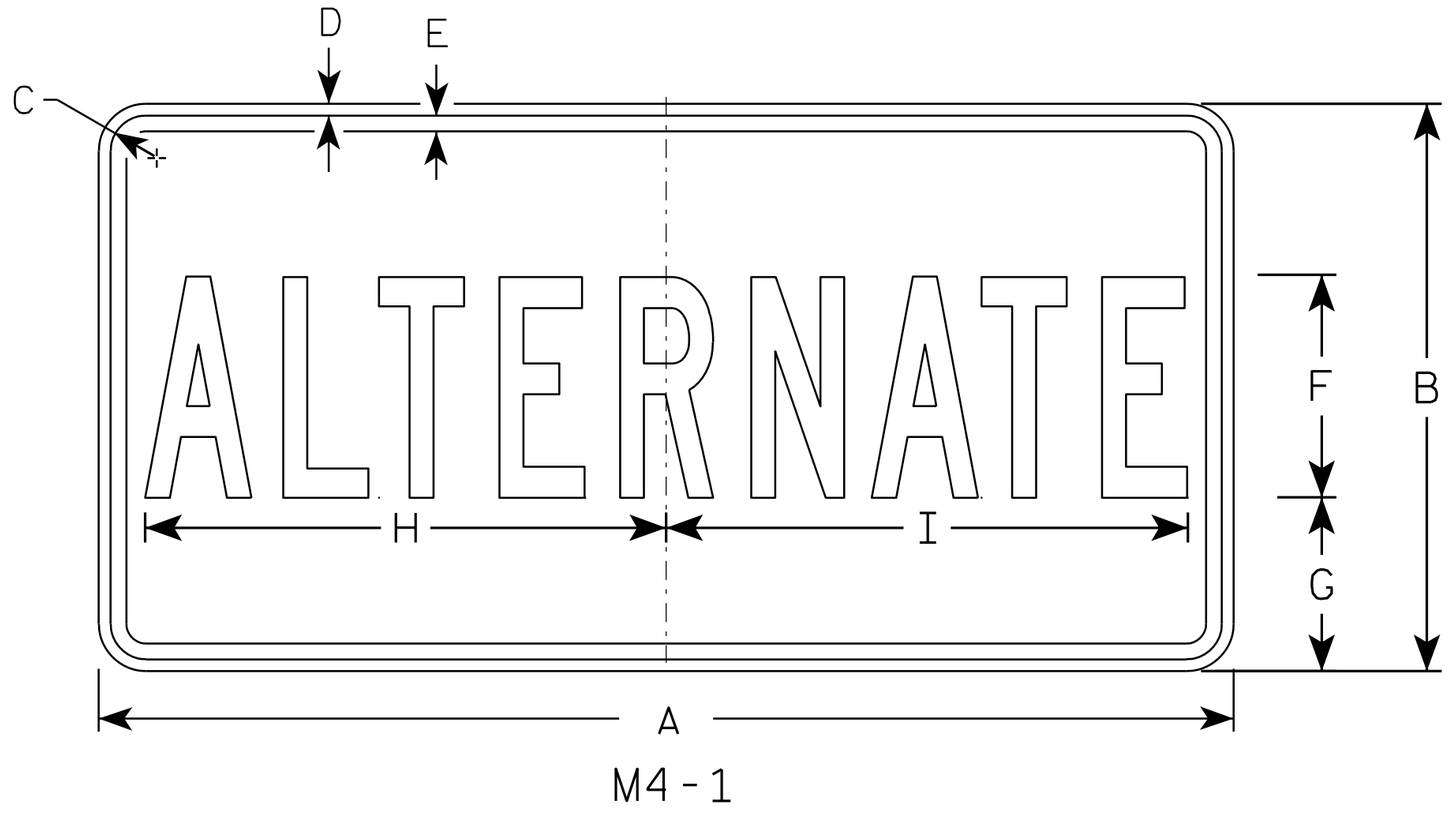
STANDARD SIGNS
M3-1 thur M3-4
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 11/10/10 PLATE NO. M3-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 542	E



M4 - 1

NOTES

1. Sign is Type II - See Note 5 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See Note 5
   Message - See note 5
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-1 Background - White - Type H Reflective
   Message - Black

   MB4-1 Background - Blue
   Message - White - Type H Reflective

   M04-1 Background - Orange - Reflective
   Message - Black

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 ½	⅜	⅜	4	4	9 ¾	9 ½																		2.00
3	36	18	1 ½	⅜	½	7	5 ½	16 ⅜	16 ½																		4.5
4	36	18	1 ½	⅜	½	7	5 ½	16 ⅜	16 ½																		4.5
5	36	18	1 ½	⅜	½	7	5 ½	16 ⅜	16 ½																		4.5

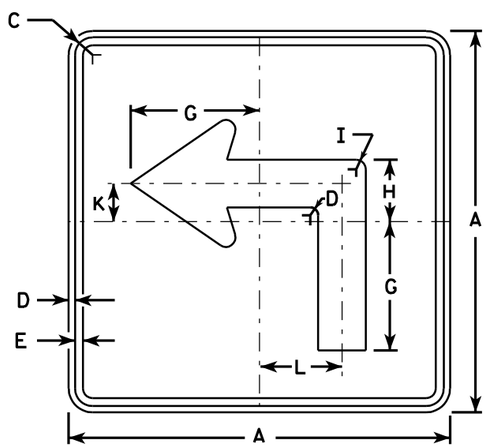
STANDARD SIGN
M4 - 1

WISCONSIN DEPT OF TRANSPORTATION

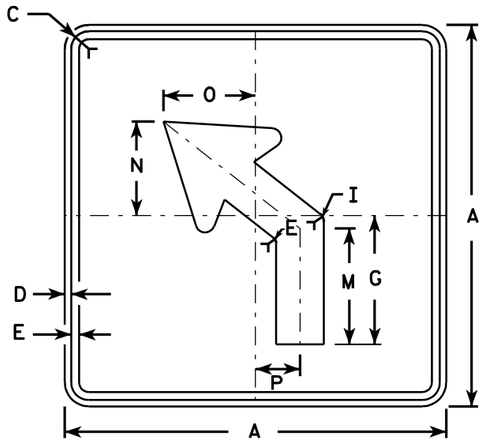
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-1.7

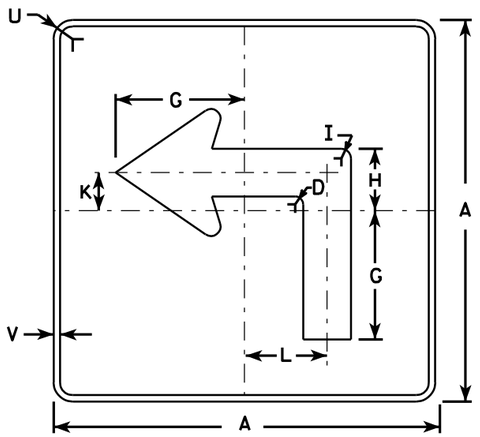
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 543	E



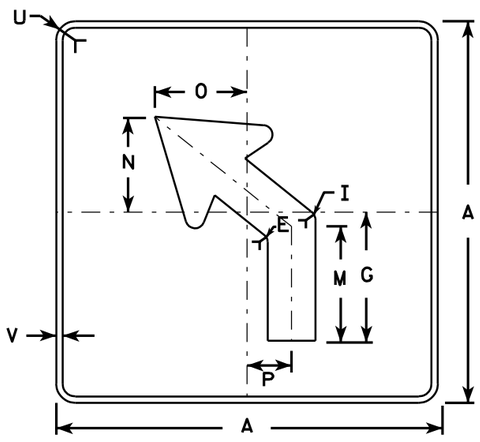
M5-1L
MK5-1L
MM5-1L
MO5-1L
MR5-1L



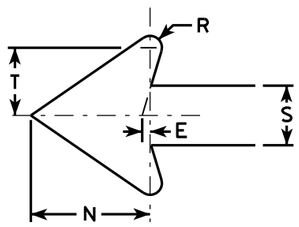
M5-2L
MK5-2L
MM5-2L
MO5-2L
MR5-2L



MB5-1L
MG5-1L
MN5-1L



MB5-2L
MG5-2L
MN5-2L



NOTES

1. Signs are Type II - See Note 4 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White - Type H Reflective (Detour or temporary Signs - Reflective) Message - Black
   MB5-1 and MB5-2 Background - Blue Message - White - Type H Reflective (Detour or temporary Signs - Reflective)
   MG5-1 and MG5-2 Background - Green Message - White - Type H Reflective
   MK5-1 and MK5-2 Background - Green Message - White Type H Reflective
   MM5-1 and MM5-2 Background - White - Type H Reflective Message - Green
   MN5-1 and MN5-2 Background - Brown Message - White - Type H Reflective
   MO5-1 and MO5-2 Background - Orange - Reflective Message - Black
   MR5-1 and MR5-2 Background - Brown Message - Yellow - Type H Reflective
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

Metric equivalent for this sign is:

SIZE	
1	
2	525 mm X 525 mm
3	750 mm X 750 mm
4	750 mm X 750 mm
5	750 mm X 750 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06	0.28
3	30		1 3/8	1/2	5/8		10 1/8	4 1/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25	0.56
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25	0.56
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25	0.56

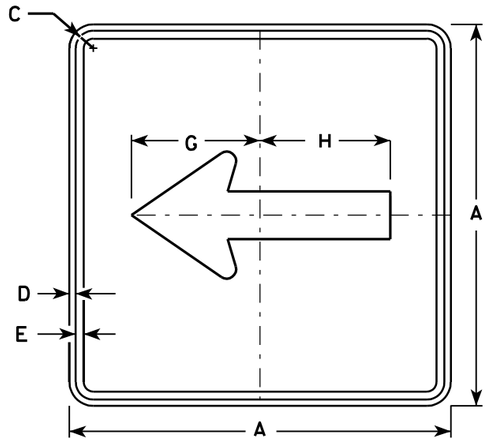
STANDARD SIGN
M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

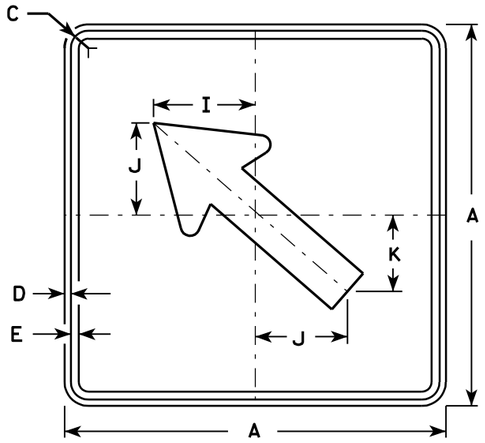
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/10 PLATE NO. M5-1.11

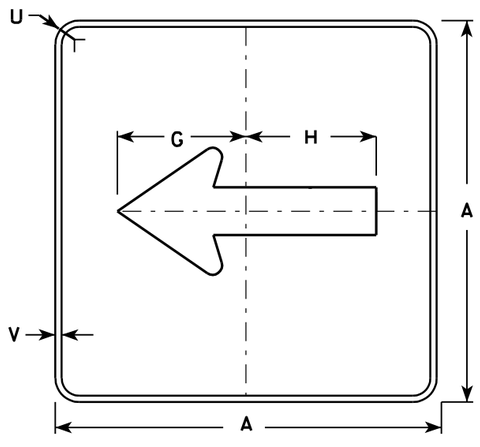
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 544	E



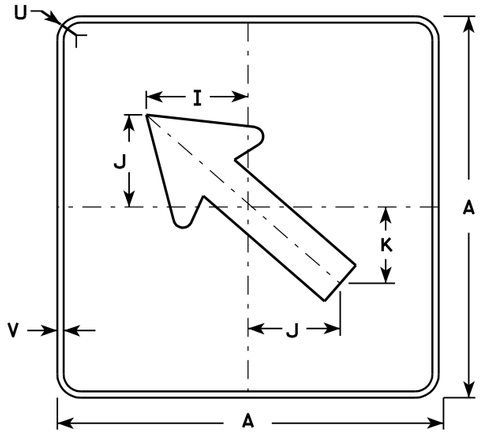
M6-1
MK6-1
MM6-1
MO6-1
MR6-1



M6-2
MK6-2
MM6-2
MO6-2
MR6-2



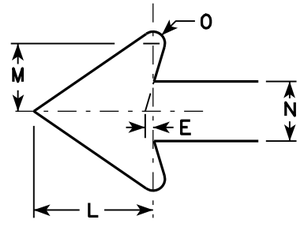
MB6-1
MG6-1
MN6-1



MB6-2
MG6-2
MN6-2

NOTES

1. Signs are Type II - See Note 4 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White - Type H Reflective (Detour or temporary Signs - Reflective) Message - Black
   MB6-1 and MB6-2 Background - Blue Message - White - Type H Reflective (Detour or temporary Signs - Reflective)
   MG6-1 and MG6-2 Background - Green Message - White - Type H Reflective
   MK6-1 and MK6-2 Background - Green Message - White - Type H Reflective
   MM6-1 and MM6-2 Background - White - Type H Reflective Message - Green
   MN6-1 and MN6-2 Background - Brown Message - White - Type H Reflective
   MO6-1 and MO6-2 Background - Orange - Reflective Message - Black
   MR6-1 and MR6-2 Background - Brown Message - Yellow - Type H Reflective



Metric equivalent for this sign is:

SIZE	
1	
2	525 mm X 525 mm
3	750 mm X 750 mm
4	750 mm X 750 mm
5	750 mm X 750 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06	0.28
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56

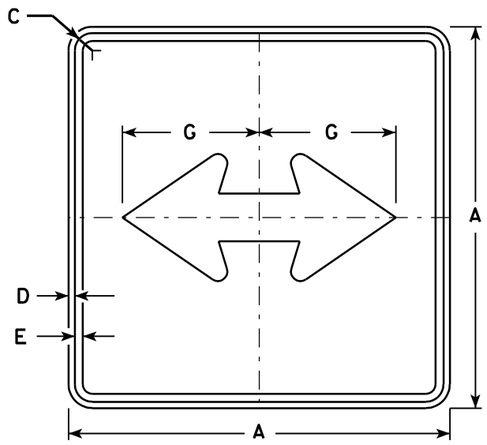
STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

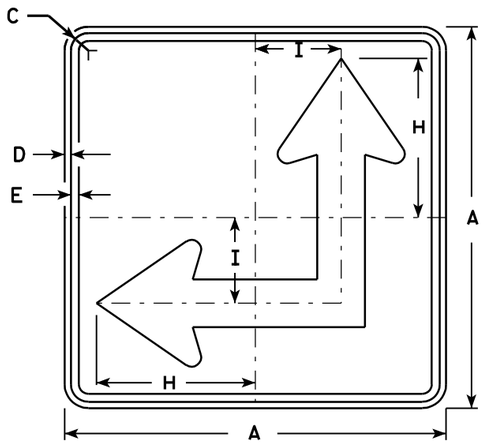
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/10 PLATE NO. M6-1.12

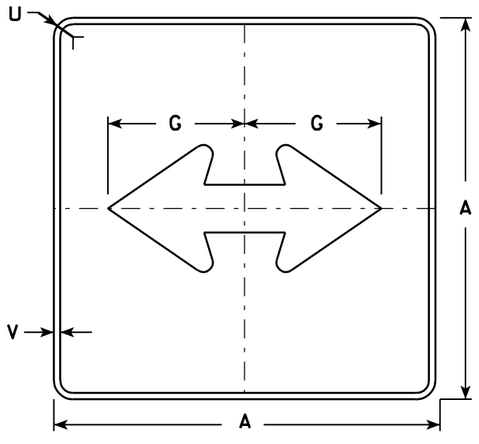
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 545	E



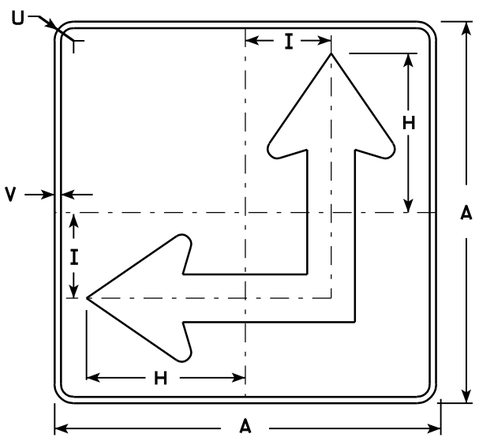
M6-4
MK6-4
MM6-4
MO6-4
MR6-4



M6-6
MK6-6
MM6-6
MO6-6
MR6-6



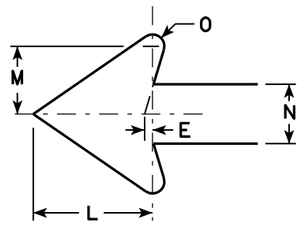
MB6-4
MG6-4
MN6-4



MB6-6
MG6-6
MN6-6

NOTES

1. Signs are Type II - See Note 4 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See Note 4
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-4 and M6-6 Background - White - Type H Reflective
   (Detour or temporary Signs - Reflective)
   Message - Black
   MB6-4 and MB6-6 Background - Blue
   Message - White - Type H Reflective
   (Detour or temporary Signs - Reflective)
   MG6-4 and MG6-6 Background - Green
   Message - White - Type H Reflective
   MK6-4 and MK6-6 Background - Green
   Message - White - Type H Reflective
   MM6-4 and MM6-6 Background - White - Type H Reflective
   Message - Green
   MN6-4 and MN6-6 Background - Brown
   Message - White - Type H Reflective
   MO6-4 and MO6-6 Background - Orange - Reflective
   Message - Black
   MR6-4 and MR6-6 Background - Brown
   Message - Yellow - Type H Reflective
5. M6-6R same as M6-6L except arrow points ahead and right.



Metric equivalent for this sign is:

SIZE	
1	
2	525 mm X 525 mm
3	750 mm X 750 mm
4	750 mm X 750 mm
5	750 mm X 750 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06	0.28
3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56
4	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56
5	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56

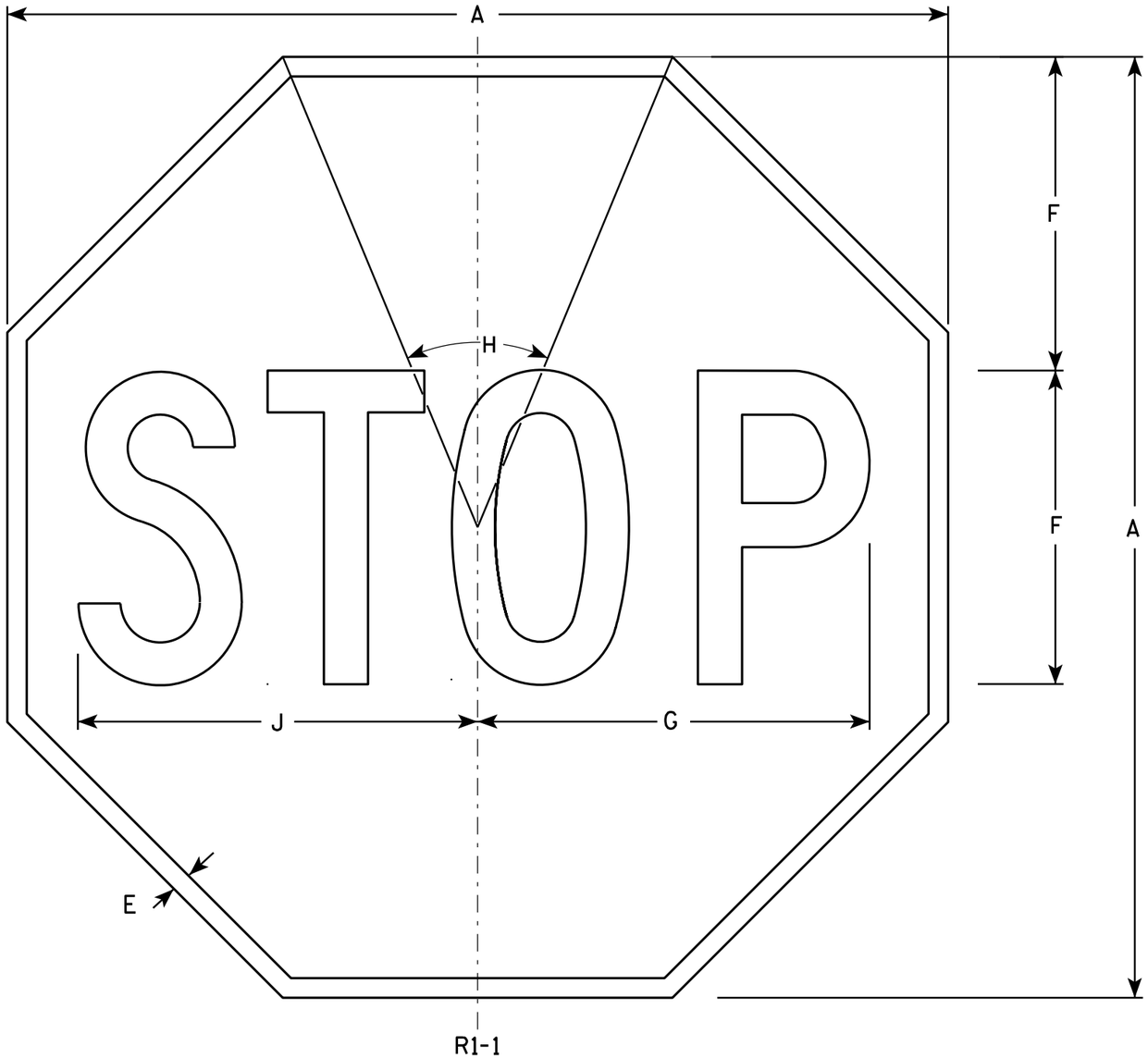
STANDARD SIGN M6-4 & M6-6 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/16/10 PLATE NO. M6-4.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 546	E



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24				3/8	8	10	45°		10 1/4																	3.31
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

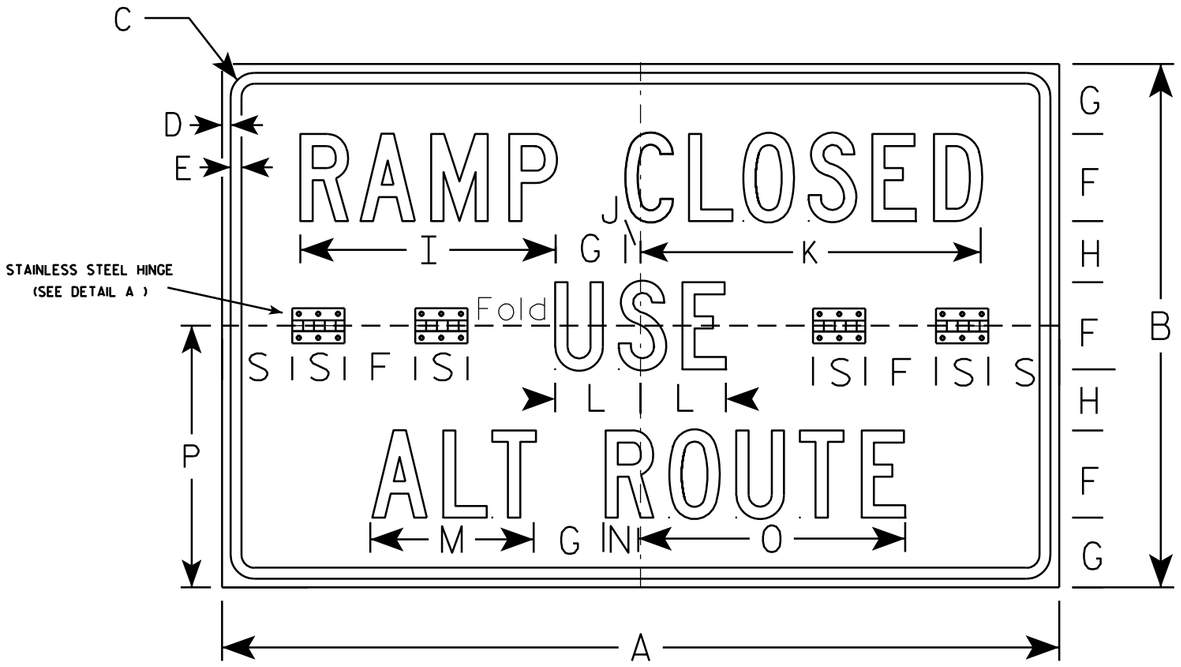
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

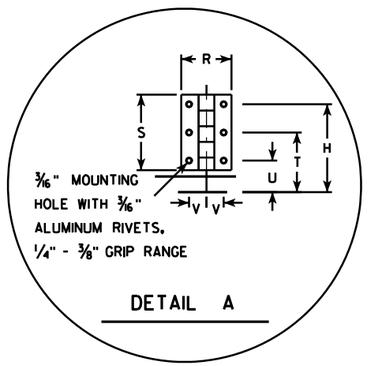
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1.12

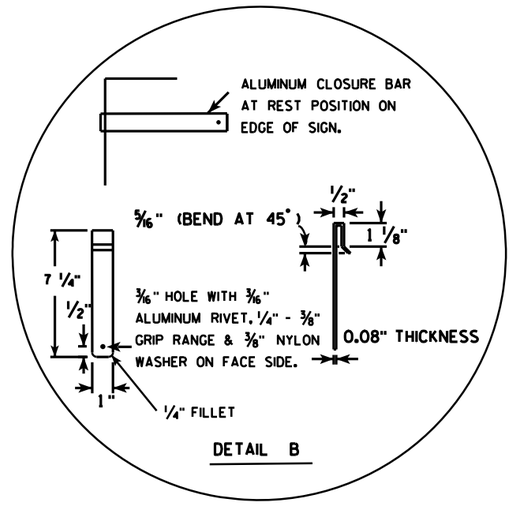
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 547	E



R11-54F



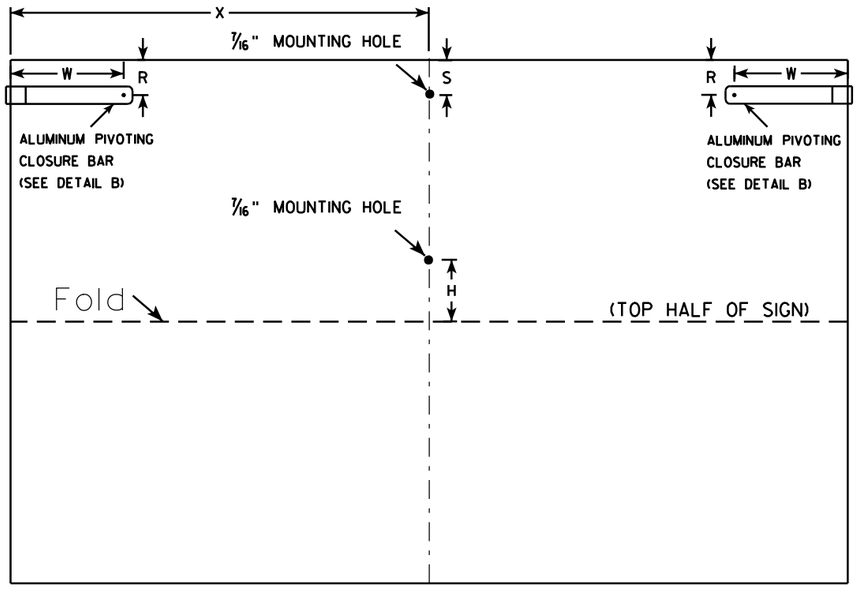
DETAIL A



DETAIL B

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - WHITE
   Message - BLACK
3. Message Series - C
4. Sign Base Material shall be aluminum corners and borders shall be rounded.
5. All hardware used on the folding sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.



(BACK VIEW)

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	5	4	3 1/2	14 5/8	7/8	19 1/2	4 7/8	9 3/8	2	15 1/4	15		2	3	2 5/8	1 1/4	11/16	6 1/2	24			10.0
2M	48	30	1 3/8	1/2	5/8	5	4	3 1/2	14 5/8	7/8	19 1/2	4 7/8	9 3/8	2	15 1/4	15		2	3	2 5/8	1 1/4	11/16	6 1/2	24			10.0
3																											
4																											
5																											

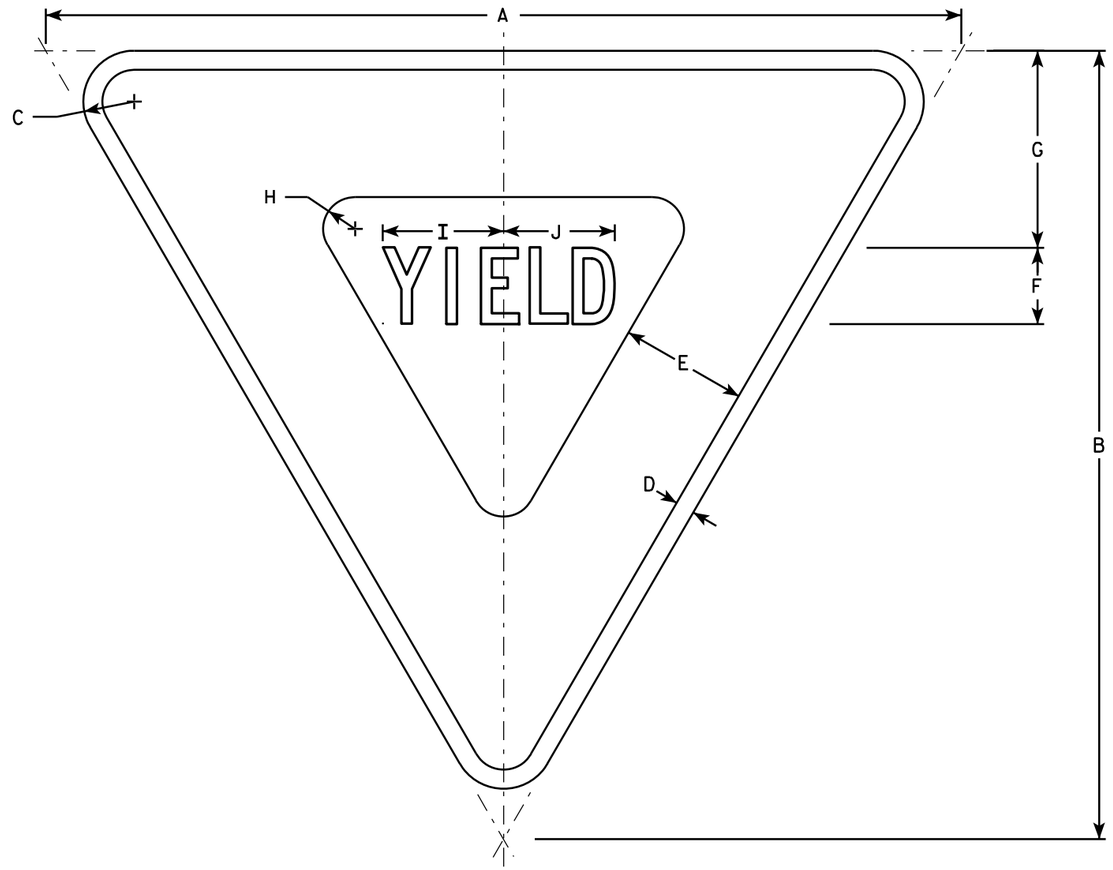
STANDARD SIGN
R11-54F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-54F.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 548	E



R1-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The border strip and word message are reflectorized red.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	26	1 1/2	5/8	4	2 1/2	6 3/8	7/8	4	3 5/8																	2.71
2S	36	31	2	3/4	5	3	7 3/4	1 1/4	4 3/4	4 3/8																	3.88
2M	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
3	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
4	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
5	60	52	3	1 1/2	8	5	13	2 1/2	7 7/8	7 1/4																	10.83
6	24	21	1 1/2	3/8	3	2	4 3/4	7/8	3 1/4	3																	1.75
7	18	15 1/2	1	3/8	2 1/2	1 1/2	3 7/8	5/8	2 3/8	2 1/4																	0.97

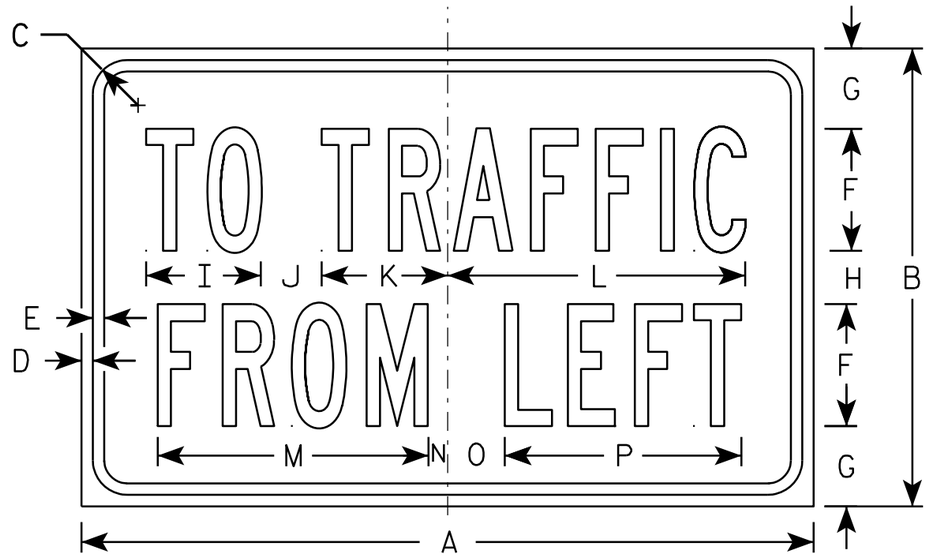
STANDARD SIGN
R1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/02/10 PLATE NO. R1-2.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 549 | E



R1-54

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - B

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	15	1 1/8	3/8	3/8	4	2 5/8	1 3/4	3 3/4	2	4 1/8	9 3/4	8 7/8	5/8	1 7/8	7 3/4											2.5
2M	24	15	1 1/8	3/8	3/8	4	2 5/8	1 3/4	3 3/4	2	4 1/8	9 3/4	8 7/8	5/8	1 7/8	7 3/4											2.5
3																											
4																											
5																											

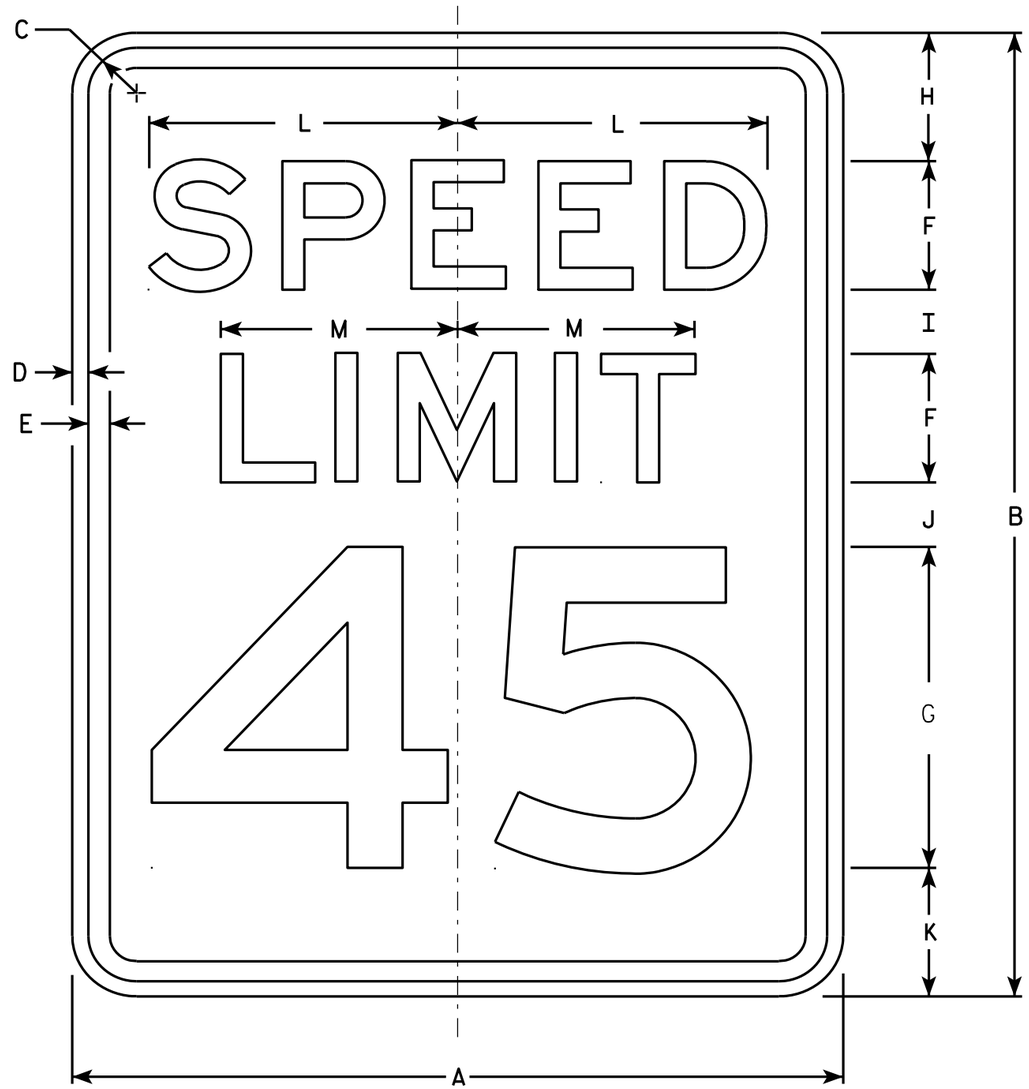
STANDARD SIGN
R1-54

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-54.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 550	E



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

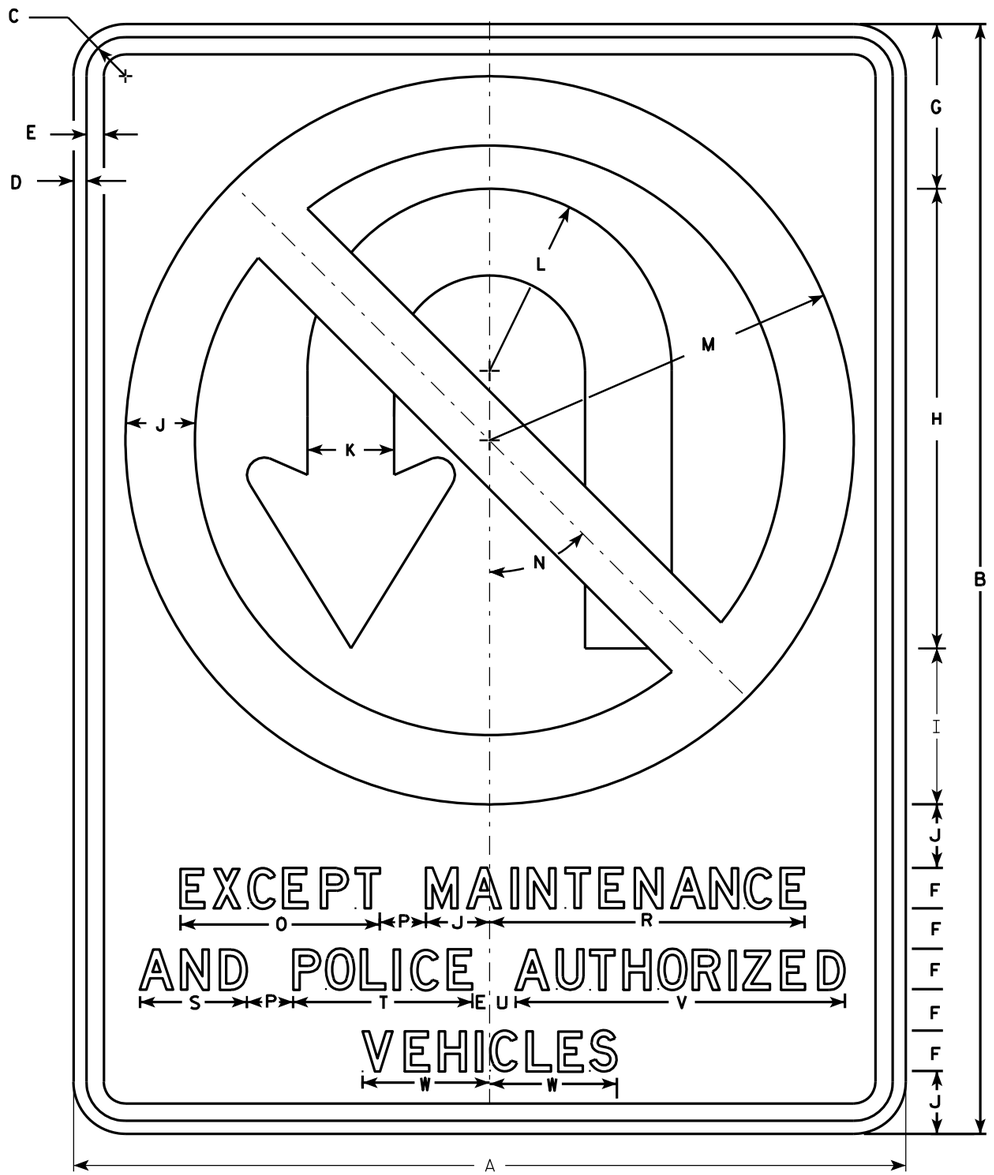
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

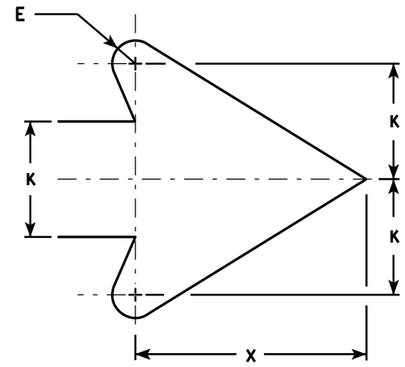
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 551 | E



R3-4B

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S																											
2M																											
3																											
4	36	48	1 5/8	5/8	3/4	1 3/4	7 1/8	19 7/8	6 3/4	2 3/4	3 3/4	7 7/8	15 3/4	45°	8 5/8	2		13 5/8	4 5/8	7 3/4	1 1/8	14 1/4	5 1/2	7 5/8			12.0
5	36	48	1 5/8	5/8	3/4	1 3/4	7 1/8	19 7/8	6 3/4	2 3/4	3 3/4	7 7/8	15 3/4	45°	8 5/8	2		13 5/8	4 5/8	7 3/4	1 1/8	14 1/4	5 1/2	7 5/8			12.0

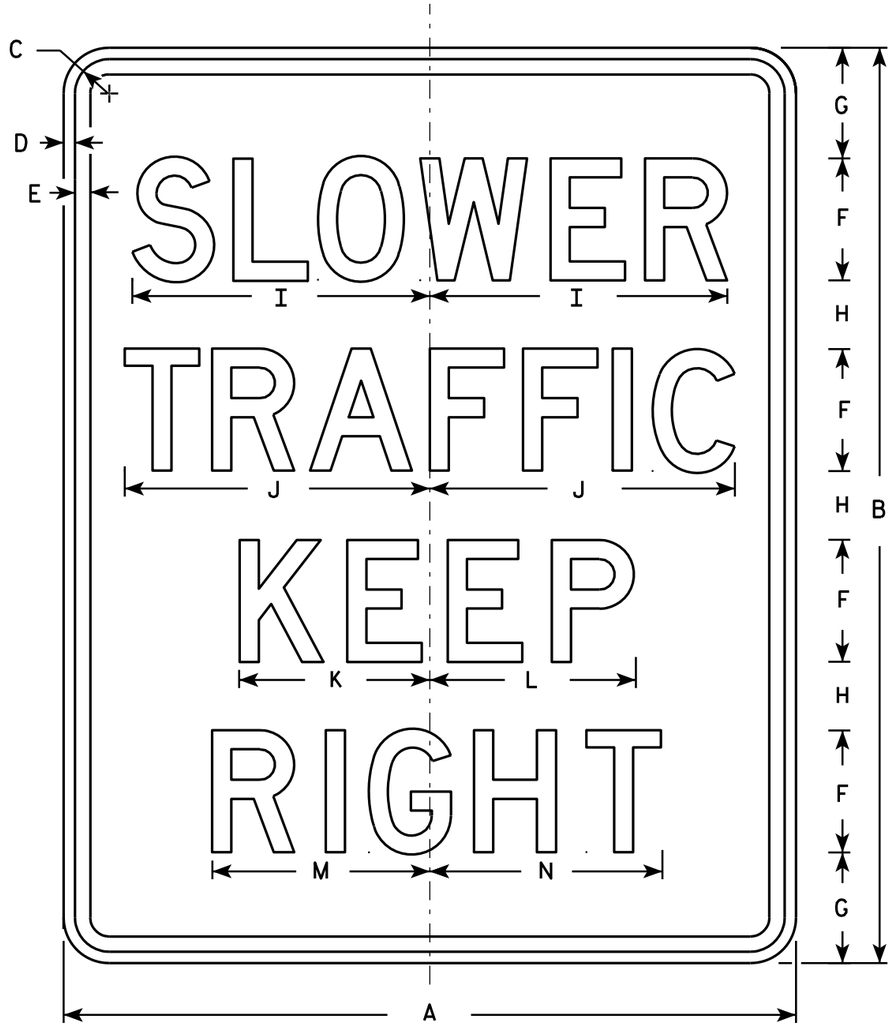
STANDARD SIGN
R3-4B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/17/2011 PLATE NO. R3-4B.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 552	E



R4-3

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	30	1 1/8	3/8	1/2	4	3 5/8	2 1/4	9 3/4	10	6 1/4	6 3/4	7 1/8	7 5/8													5.0
2M	24	30	1 1/8	3/8	1/2	4	3 5/8	2 1/4	9 3/4	10	6 1/4	6 3/4	7 1/8	7 5/8													5.0
3	36	48	1 5/8	5/8	3/4	6	6	4	14 5/8	15	9 3/8	10	10 3/4	11 3/8													12.0
4	36	48	1 5/8	5/8	3/4	6	6	4	14 5/8	15	9 3/8	10	10 3/4	11 3/8													12.0
5	48	60	2 1/4	3/4	1	8	7 1/4	4 1/2	19 1/2	20	12 1/2	13 1/2	14 1/4	15 1/4													20.0

STANDARD SIGN
R4-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-3.8

PROJECT NO:

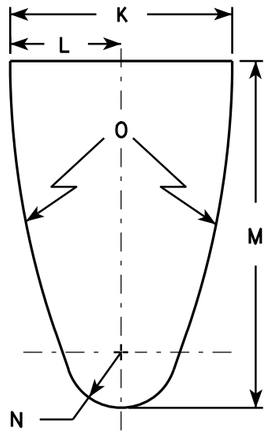
SHEET NO: 553 E

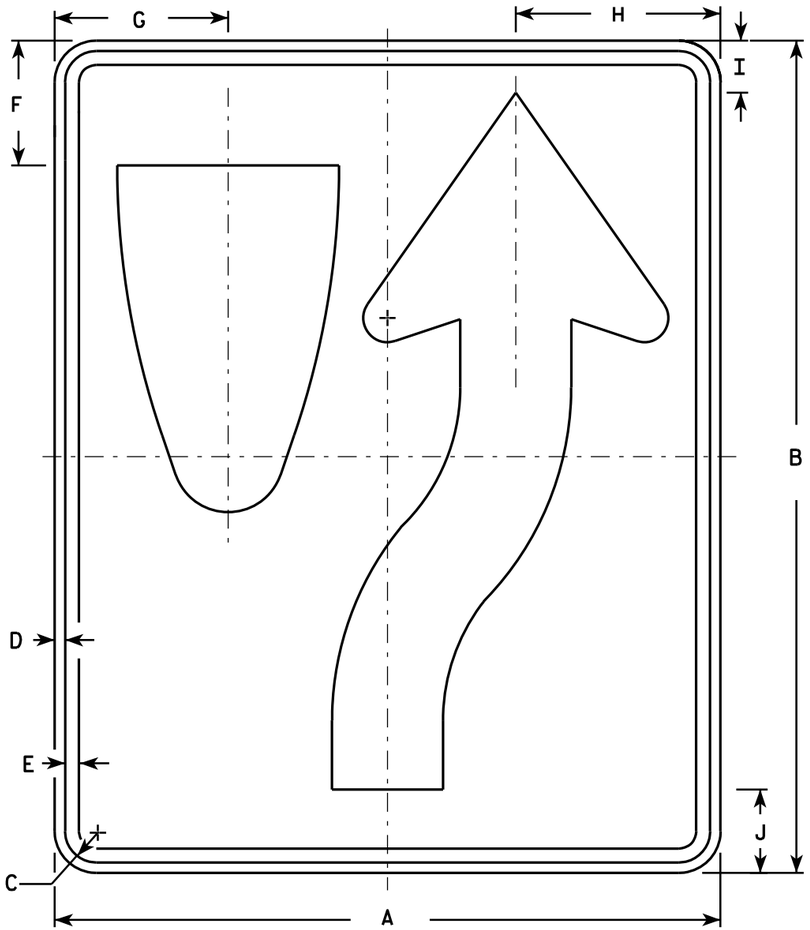
FILE NAME : C:\Users\PROJECTS\tr_stdplate\R43.DGN PLOT DATE : 25-MAR-2011 13:40 PLOT BY : mscsja

WISDOT/CADDS SHEET 42

7

7

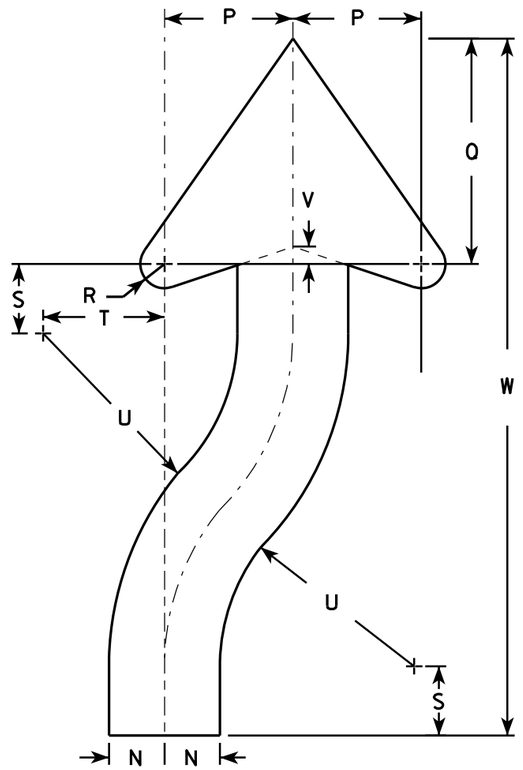




R4-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
4. R4-8 is the same as R4-7 except Legend is reversed.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

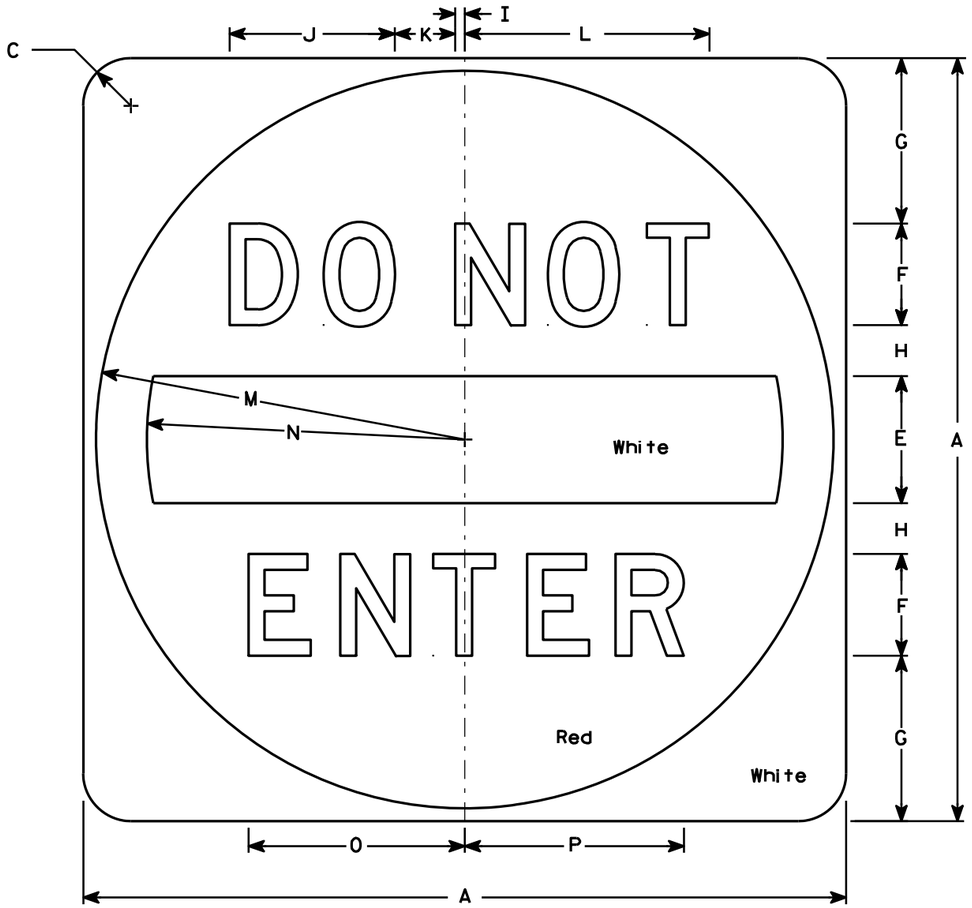
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 554	E



R5-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See detail
   Message - White - Type H Reflective
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but when base material is metal, the cornors shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8											6.26
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8											16.0

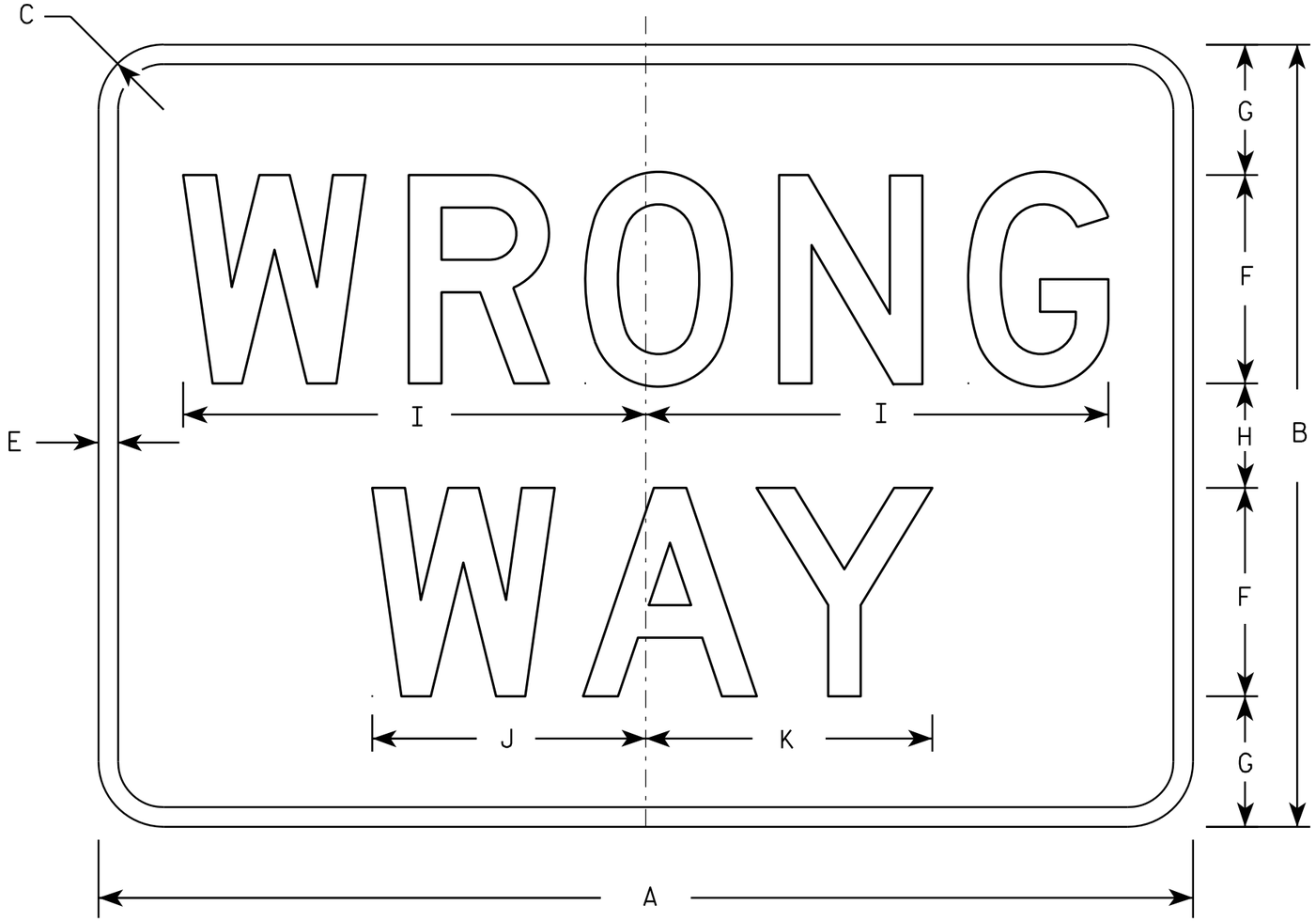
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1.15

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 555 | E



R5-1A

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	18	1 1/2		1/2	5	3	2	11	6 1/2	6 7/8																3.75
2S	36	24	2		5/8	6	4 1/2	3	13 1/4	7 7/8	8 1/4																6.00
2M	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
3	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
4	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
5	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75

STANDARD SIGN
R5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1A.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 556 | E



R5-57

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - Lines 1, 2, and 5 are Series C.
   Lines 3 and 4 are Series B.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S																											
2M																											
3																											
4	36		1 5/8	5/8	3/4	4	3	2	3 1/2	14 1/4	14 7/8	11	11 1/2	4 3/4	1 3/4	9		1 3/8	10	11	2 1/2	1 3/4	15 1/2	13	13 5/8		9.0
5	36		1 5/8	5/8	3/4	4	3	2	3 1/2	14 1/4	14 7/8	11	11 1/2	4 3/4	1 3/4	9		1 3/8	10	11	2 1/2	1 3/4	15 1/2	13	13 5/8		9.0

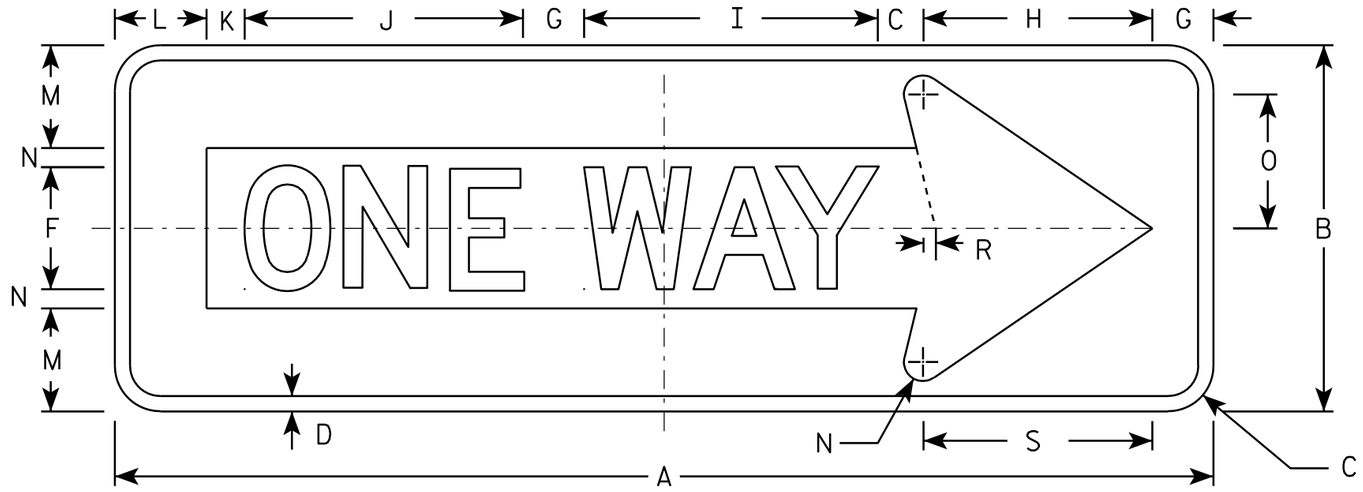
STANDARD SIGN
R5-57

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2011 PLATE NO. R5-57.10

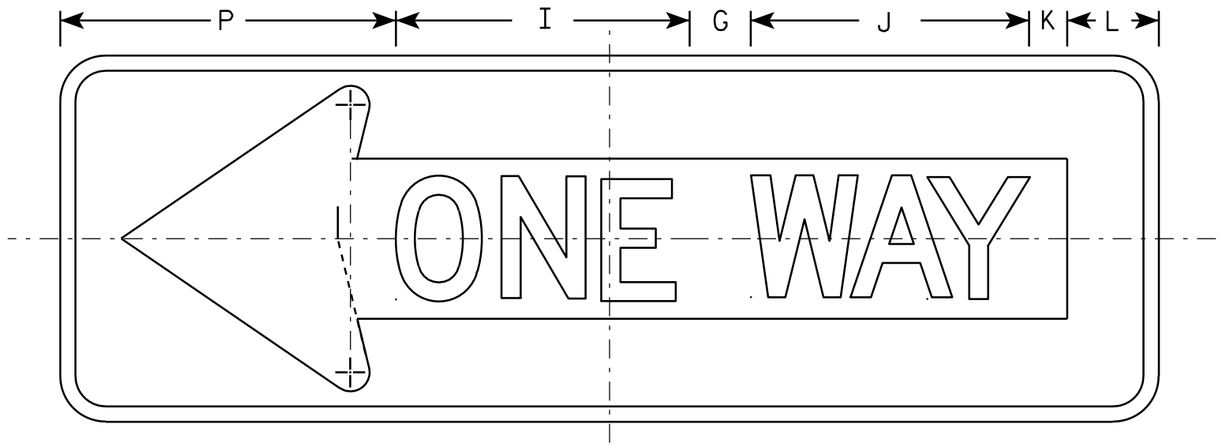
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 557	E



R6-1R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - BLACK
   Message - BLACK LEGEND & WHITE ARROW & BORDER
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R6-1L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36	12	1 ½	½		4	2	7 ½	9 ⅝	9 ⅛	1 ¼	3	3 ⅜	⅝	4 ⅜	11		⅜	7 ½								3.0
2M	54	18	2 ¼	¾		6	3	11 ¼	14 ½	13 ⅝	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
3	54	18	2 ¼	¾		6	3	11 ¼	14 ½	13 ⅝	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
4	54	18	2 ¼	¾		6	3	11 ¼	14 ½	13 ⅝	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
5																											

STANDARD SIGN
R6-1 L & R

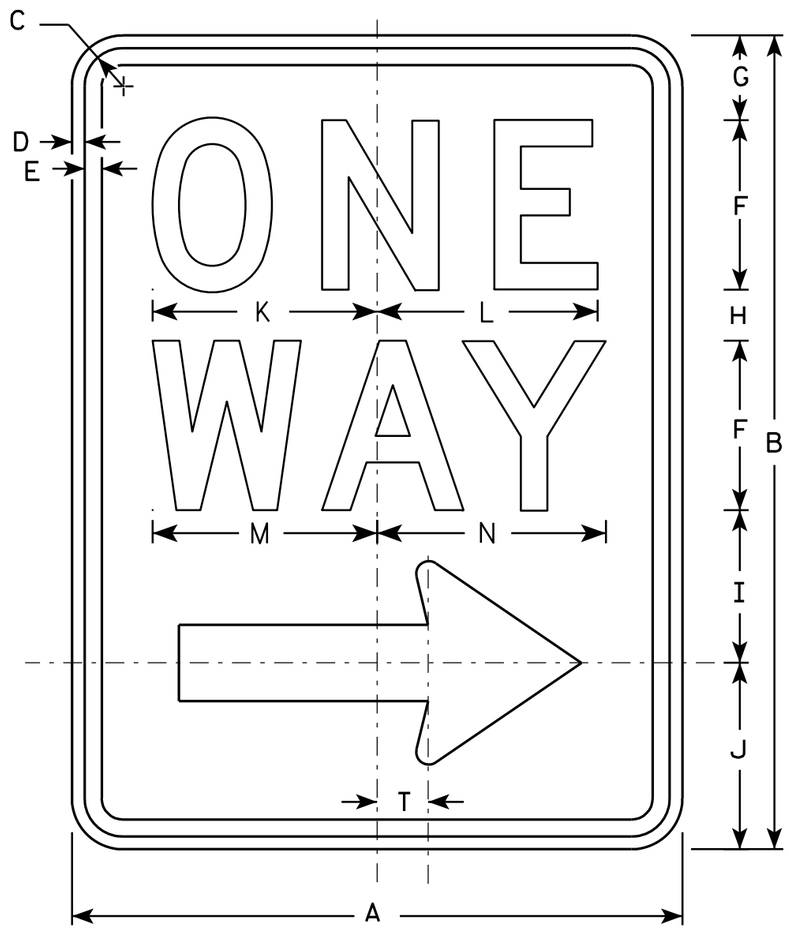
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R6-1.2

PROJECT NO:

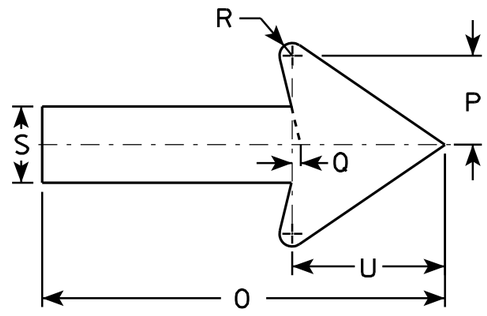
SHEET NO: 558 E



R6-2R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R6-2L same as R6-2R except arrow points to the left.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

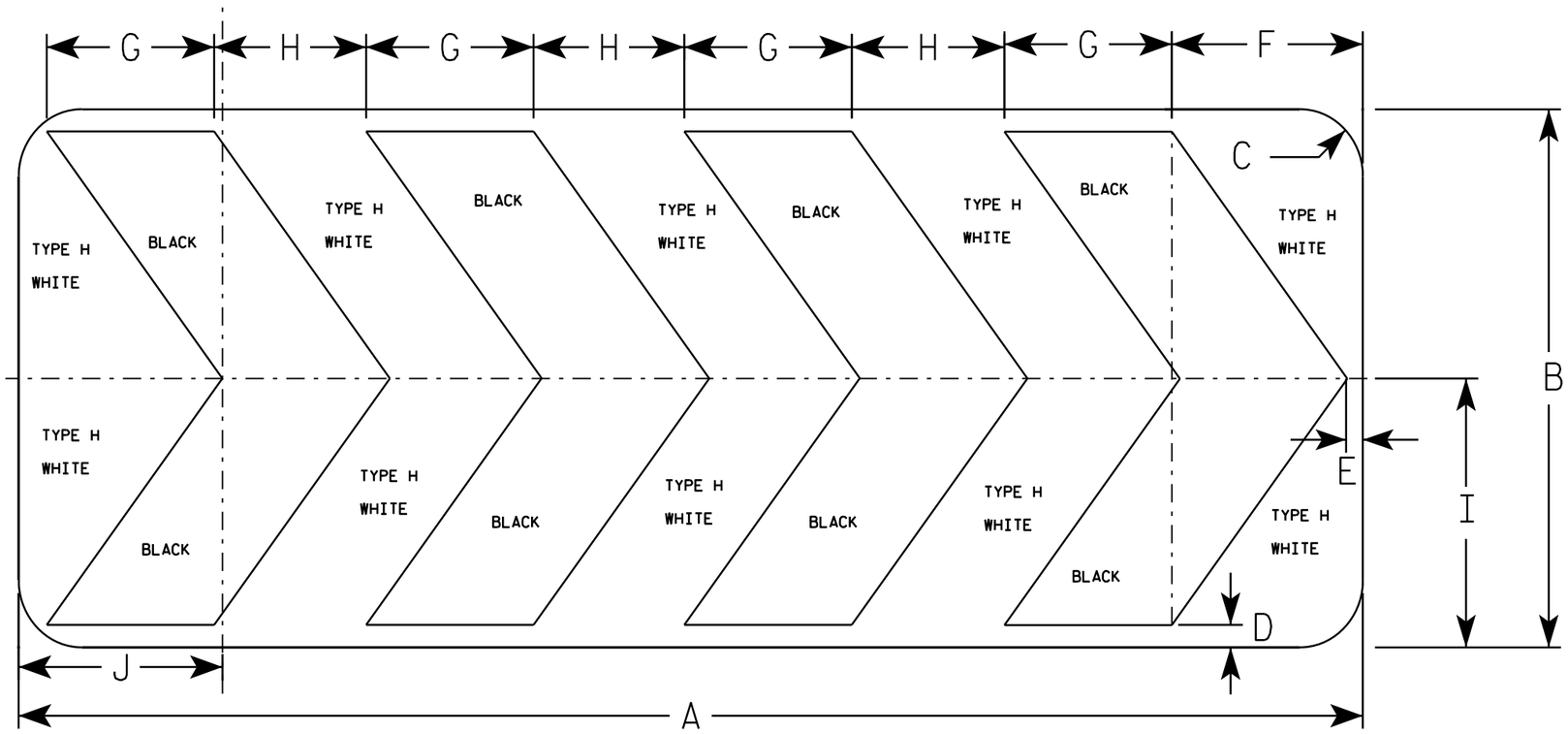
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 559	E

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - WHITE
   Message - BLACK
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R6-4B

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	60	24	2 1/4	1	3/4	8 1/2	7 1/2	6 3/4	12	9 1/8																	10.0
2M	60	24	2 1/4	1	3/4	8 1/2	7 1/2	6 3/4	12	9 1/8																	10.0
3																											
4																											
5																											

STANDARD SIGN
R6-4B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/03/11 PLATE NO. R6-4B.2

PROJECT NO:

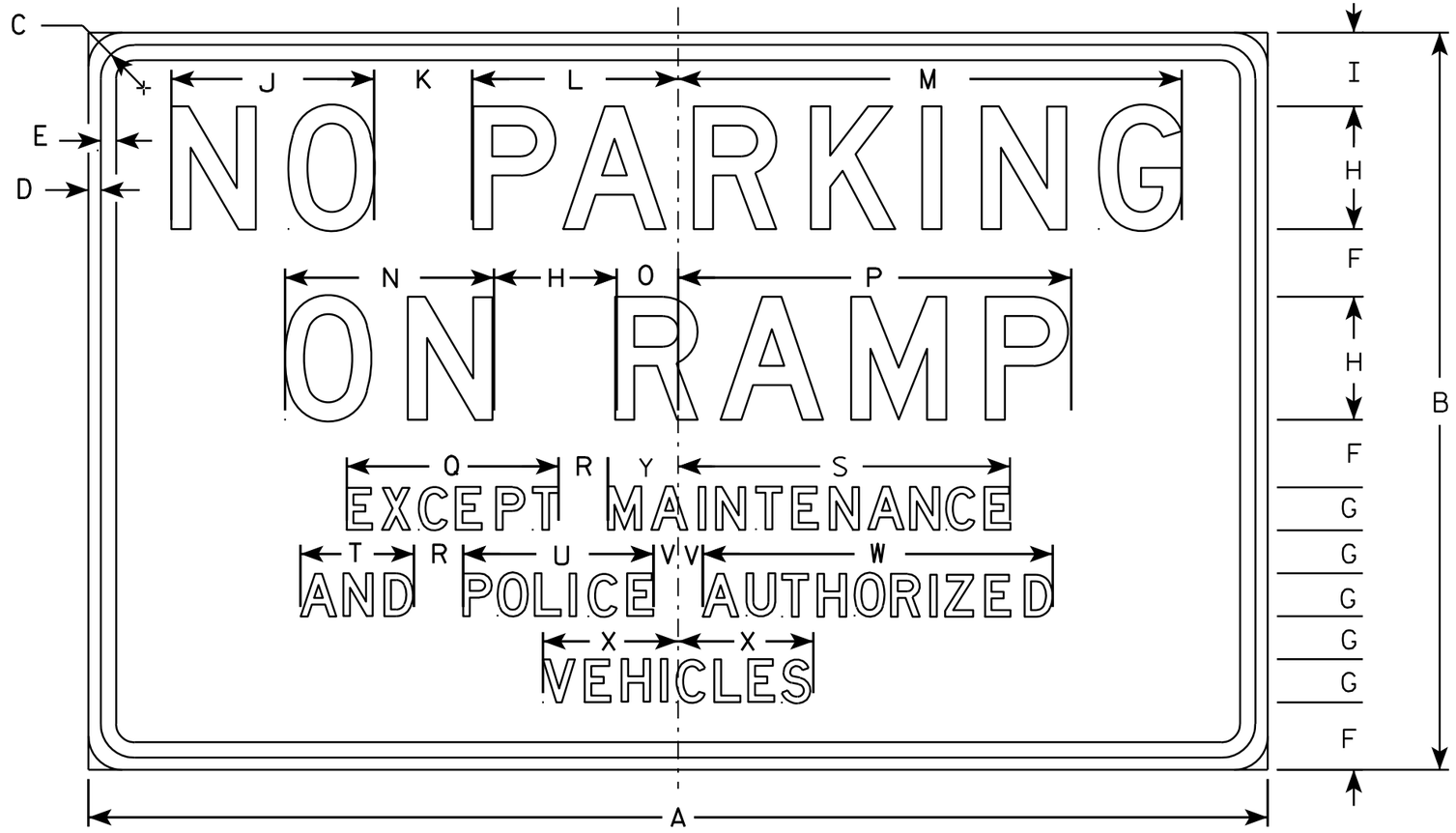
SHEET NO: 560 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R64B.DGN PLOT DATE : 03-JAN-2011 14:30 PLOT BY : dotsja

WISDOT/CADDS SHEET 42

7

7



R7-64

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - WHITE
   Message - Lines 1& 2 and Border are RED
   Lines 3, 4, & 5 are BLACK
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S																											
2M																											
3	48	30	1 3/8	1/2	5/8	2 3/4	1 3/4	5	3	8 1/4	4	8 3/8	20 1/2	8 1/2	2 1/2	16	8 5/8	2	13 5/8	4 5/8	7 3/4	1	14 1/4	5 1/2			10.0
4																											
5																											

STANDARD SIGN
R7-64

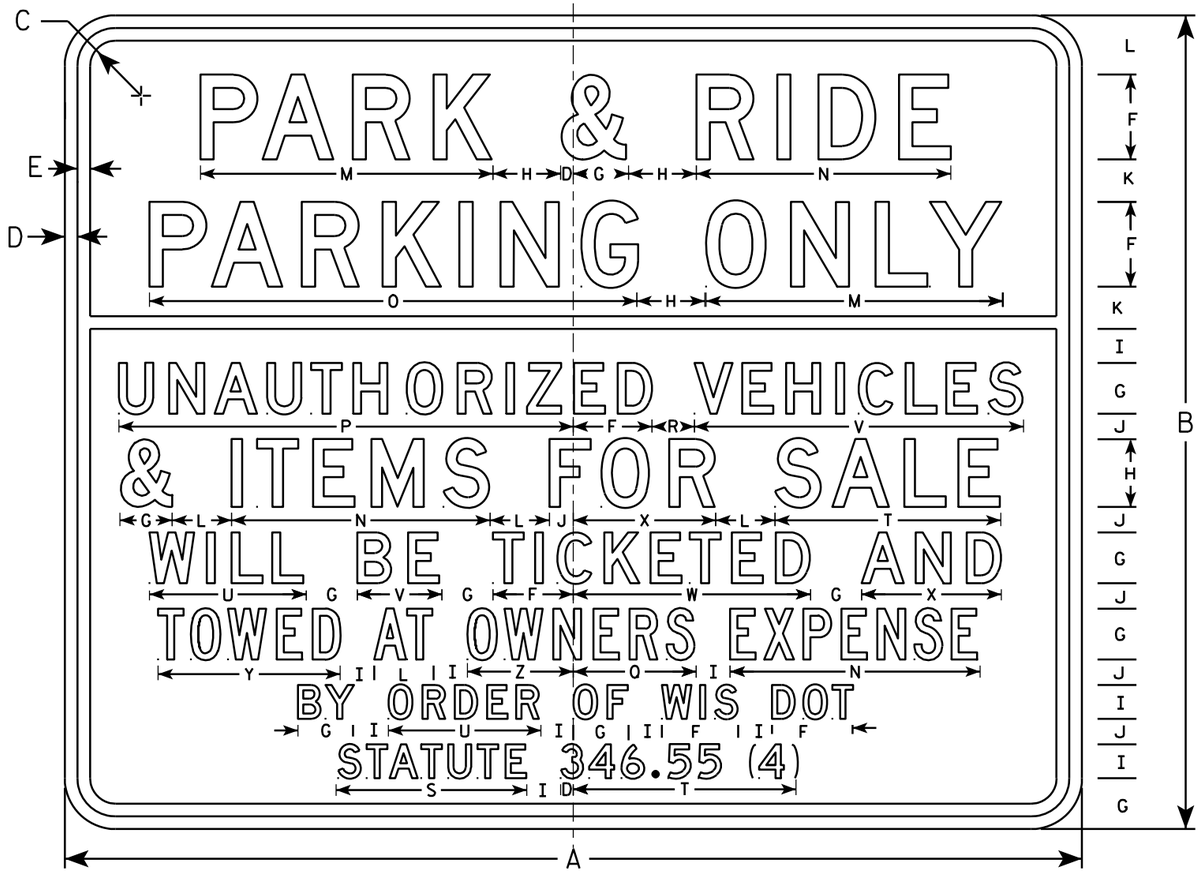
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-64.3

PROJECT NO:

SHEET NO: 561 E



R7-65

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - WHITE
   Message - Black
3. Message Series - D except Line 6 is Series C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S																											
2M																											
3	30	24	1 1/8	3/8	3/8	2 1/2	1 1/2	2	1	3/4	1 1/4	1 3/4	8 5/8	7 1/2	14 3/8	13 3/8	3 5/8	1 1/4	5 3/4	6 5/8	4 5/8	9 3/4	7	4 1/8	5 3/8	3 1/8	5.0
4																											
5																											

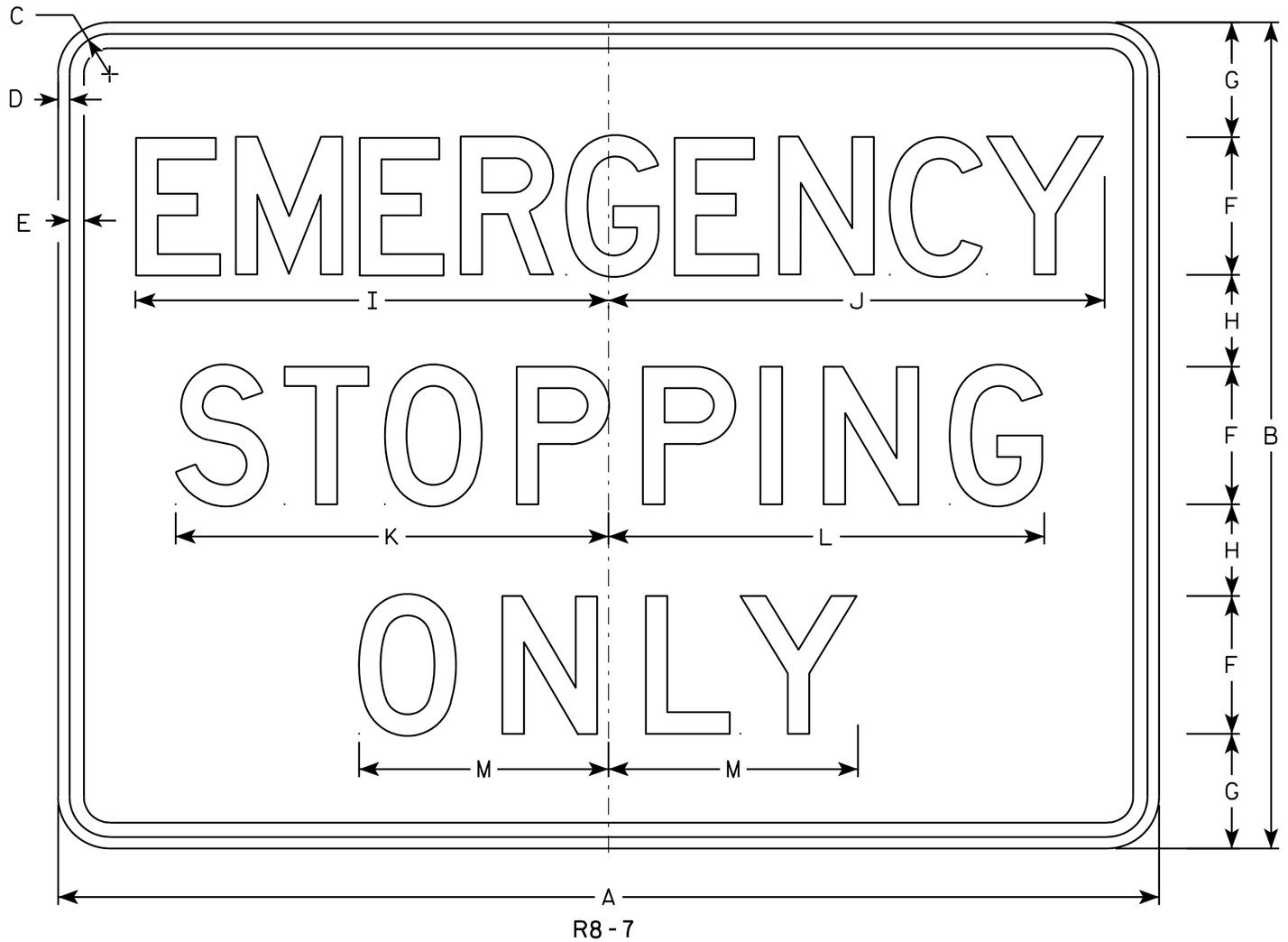
STANDARD SIGN
R7-65

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-65.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 562	E



R8-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S																											
2M																											
3																											
4	48	36	1 3/4	1/2	5/8	6	5	4	20 5/8	21 5/8	18 7/8	19	10 7/8														12.0
5	48	36	1 3/4	1/2	5/8	6	5	4	20 5/8	21 5/8	18 7/8	19	10 7/8														12.0

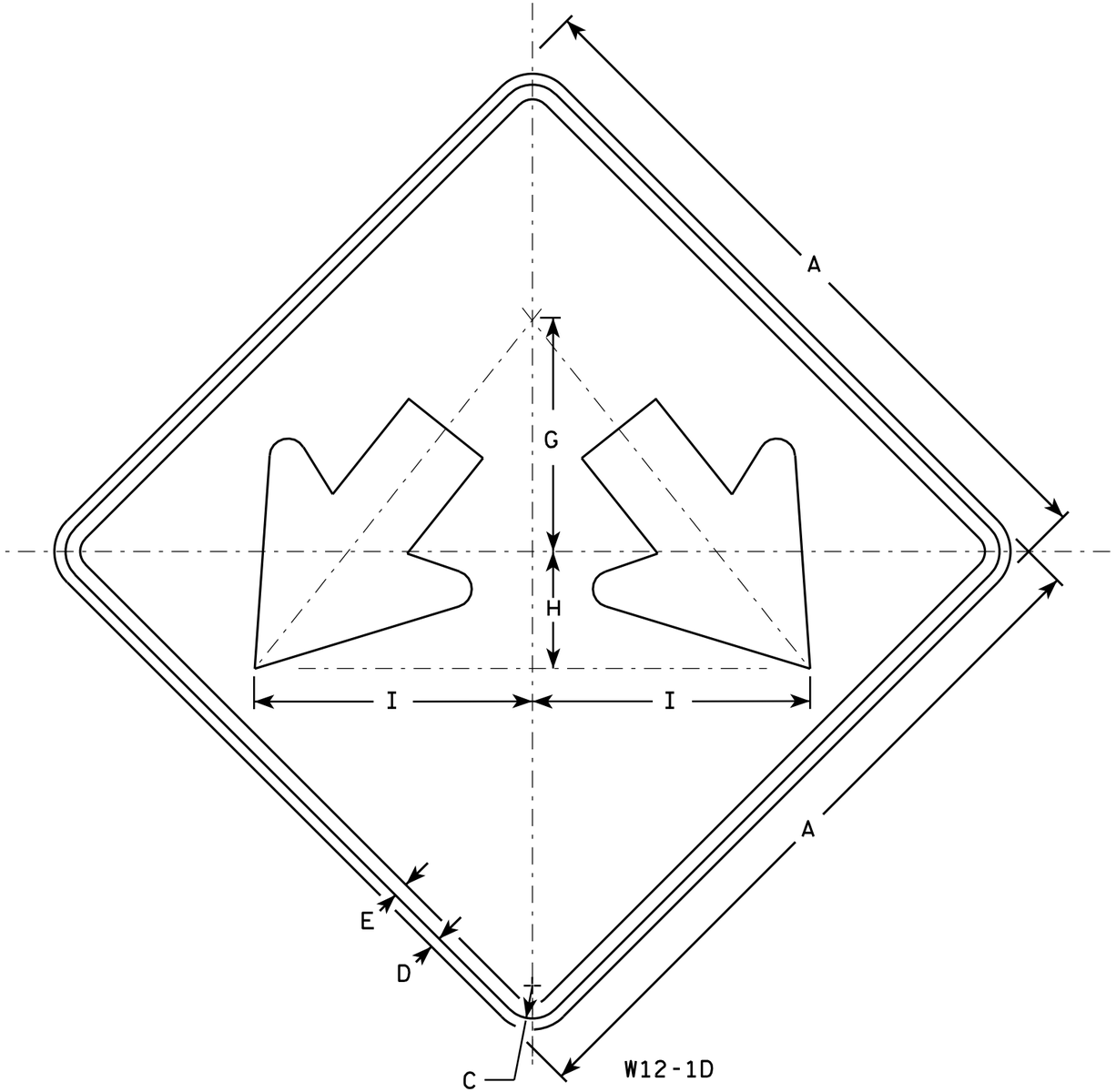
STANDARD SIGN
R8-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

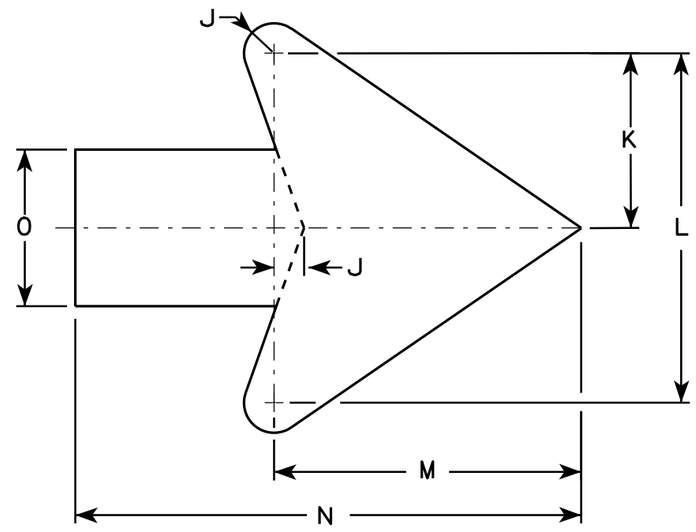
DATE 3/31/2011 PLATE NO. R8-7.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 563 | E



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 3/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 7/8	13	4												6.25
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0
5	48		2 1/4	3/4	1		16	8	19	1 1/4	7 1/4	14 1/2	12 3/4	21	6 1/4												16.0

STANDARD SIGN
W12-1D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/15/11 PLATE NO. W12-1D.14

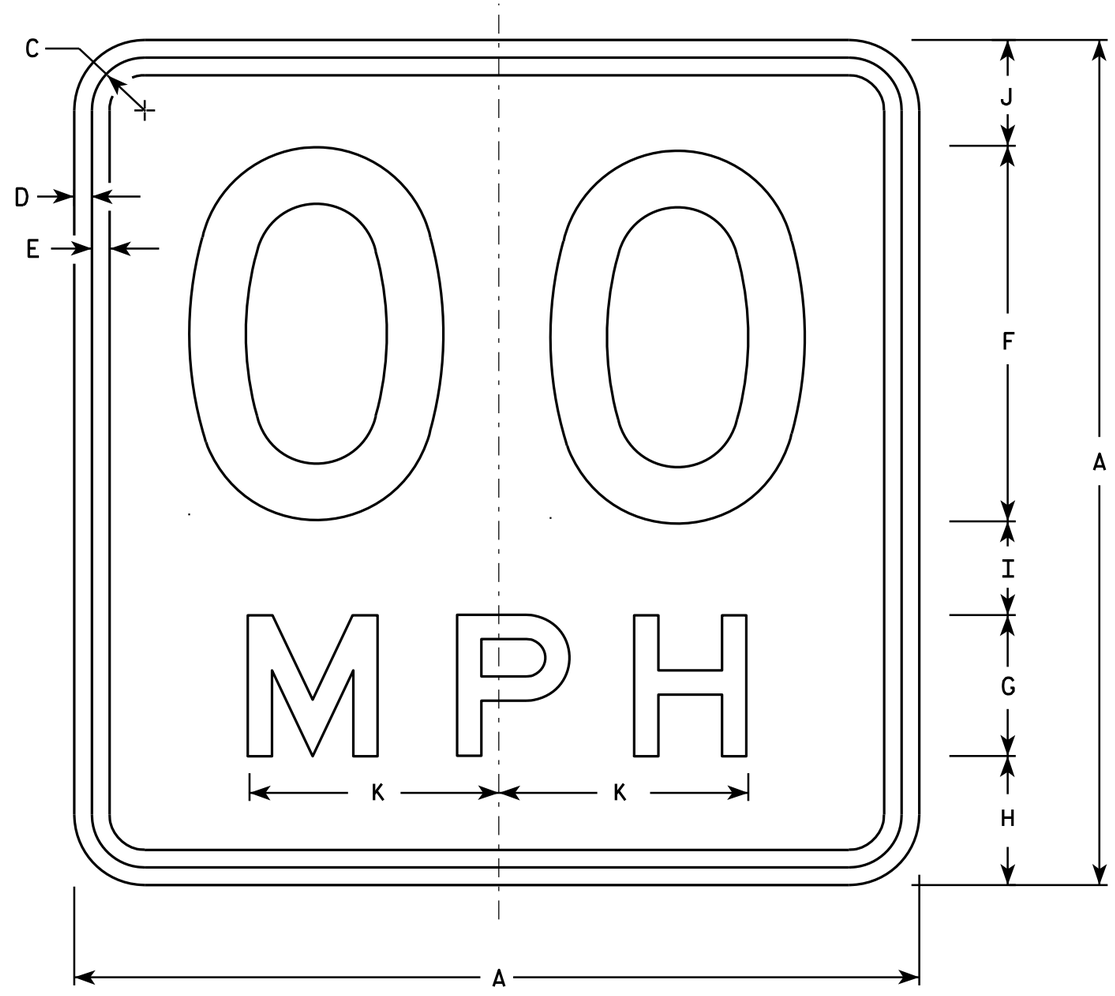
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 564	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W121D.DGN PLOT DATE : 16-MAR-2011 14:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 4.717577:1.000000

WISDOT/CADDS SHEET 42

7

7



W13-1

* For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - See Note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is Series E

	SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
	1	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
	3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
	4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
	5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

STANDARD SIGN
W13-1

WISCONSIN DEPT OF TRANSPORTATION

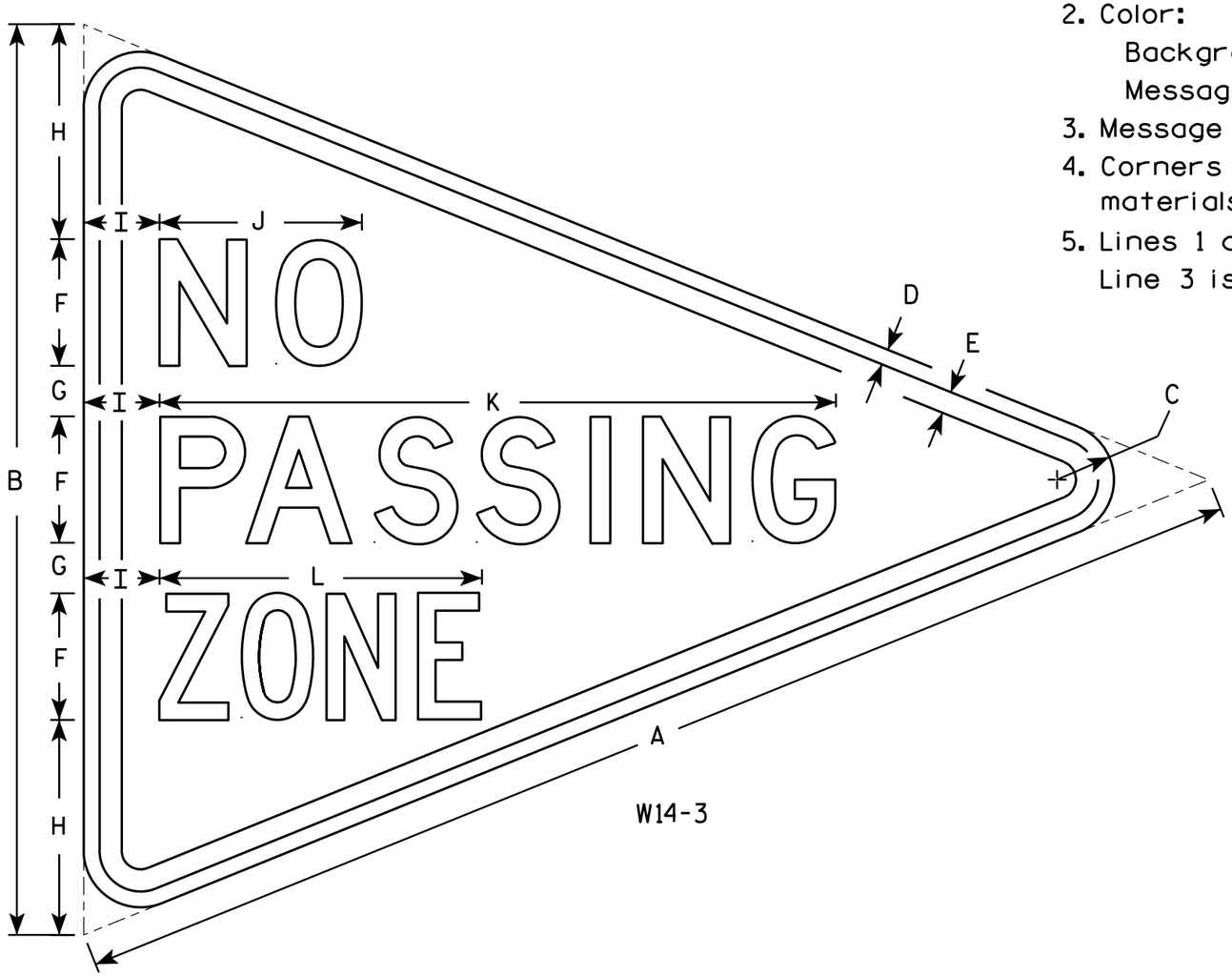
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/11 PLATE NO. W13-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 565	E

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - See note 5
4. Corners and borders shall be rounded on all base materials for this sign.
5. Lines 1 and 2 are Series D.
   Line 3 is series C.



W14-3

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															6.0
2M	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															6.0
3	64	48	3	3/4	1 1/4	6	3	12	4	10 3/4	33 5/8	16 1/2															10.7
4																											
5																											

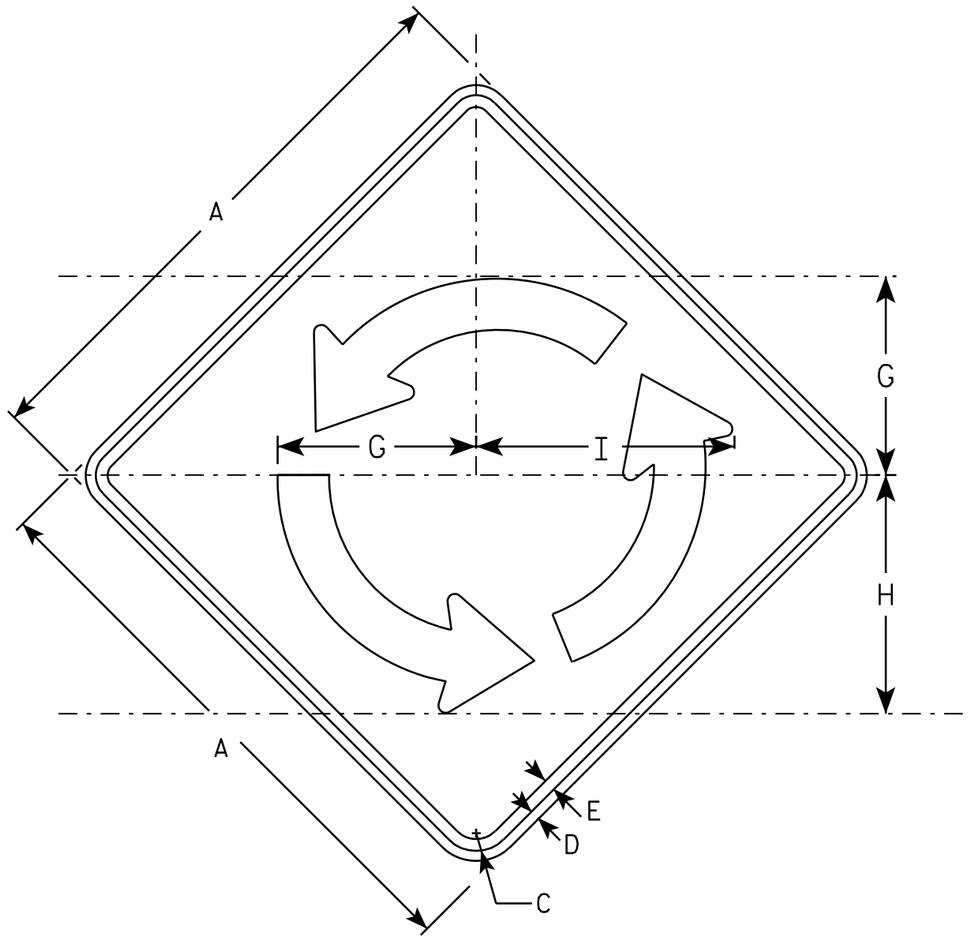
STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W14-3.9

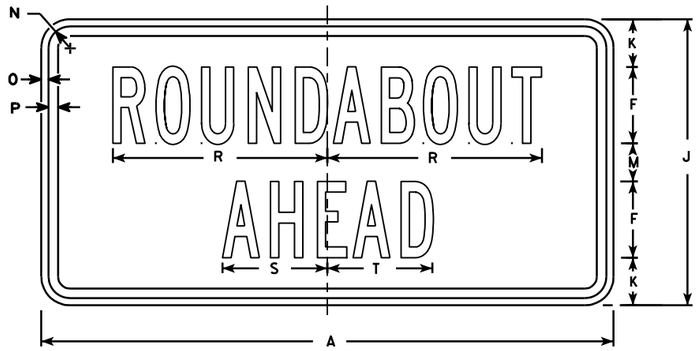
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 566	E



W2-6

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW
   Message - BLACK
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W2-6P

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	W2-6 Area sq. ft.	W2-6P Area sq. ft.
1																										
2S	30		1 3/8	1/2	5/8	4	10 3/8	12 1/2	13 1/2	15	2 1/2		2	1 1/8	3/8	1/2		11 1/4	5 1/2	5 1/2					6.25	3.12
2M	30		1 3/8	1/2	5/8	4	10 3/8	12 1/2	13 1/2	15	2 1/2		2	1 1/8	3/8	1/2		11 1/4	5 1/2	5 1/2					6.25	3.12
3	36		1 5/8	5/8	3/4	5	12 1/2	15	16 1/4	18	2 5/8		2 3/4	1 1/8	3/8	1/2		14	7	6 3/4					9.00	4.50
4	48		2 1/4	3/4	1	6	16 5/8	20	16 1/4	24	4 3/8		3 5/8	1 3/8	1/2	5/8		17	8 1/4	8 1/4					16.0	8.0
5																										

STANDARD SIGN
W2-6

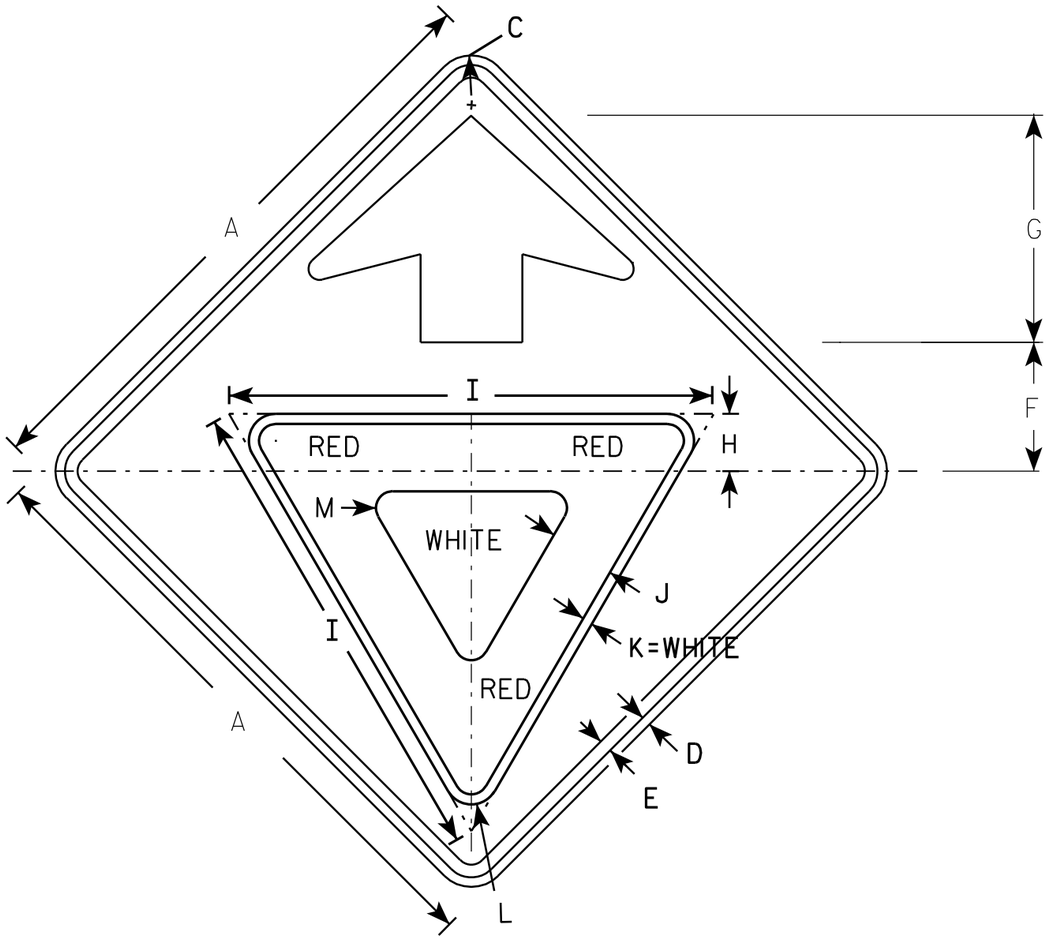
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/11 PLATE NO. W2-6.4

PROJECT NO:

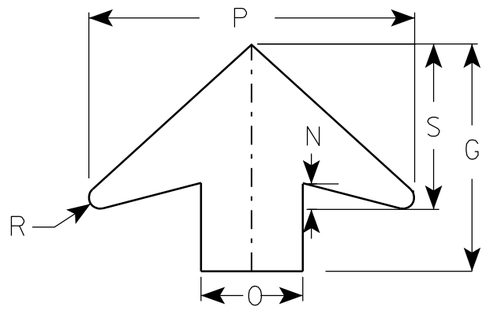
SHEET NO: 567 E



W3-2

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW
   Arrow & Border - BLACK
   Yield Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	3	25	3 3/8	1/2	1 3/8	7/8	1 1/4	5	16		1/2	8								6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0

STANDARD SIGN
W3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-2..9

PROJECT NO:

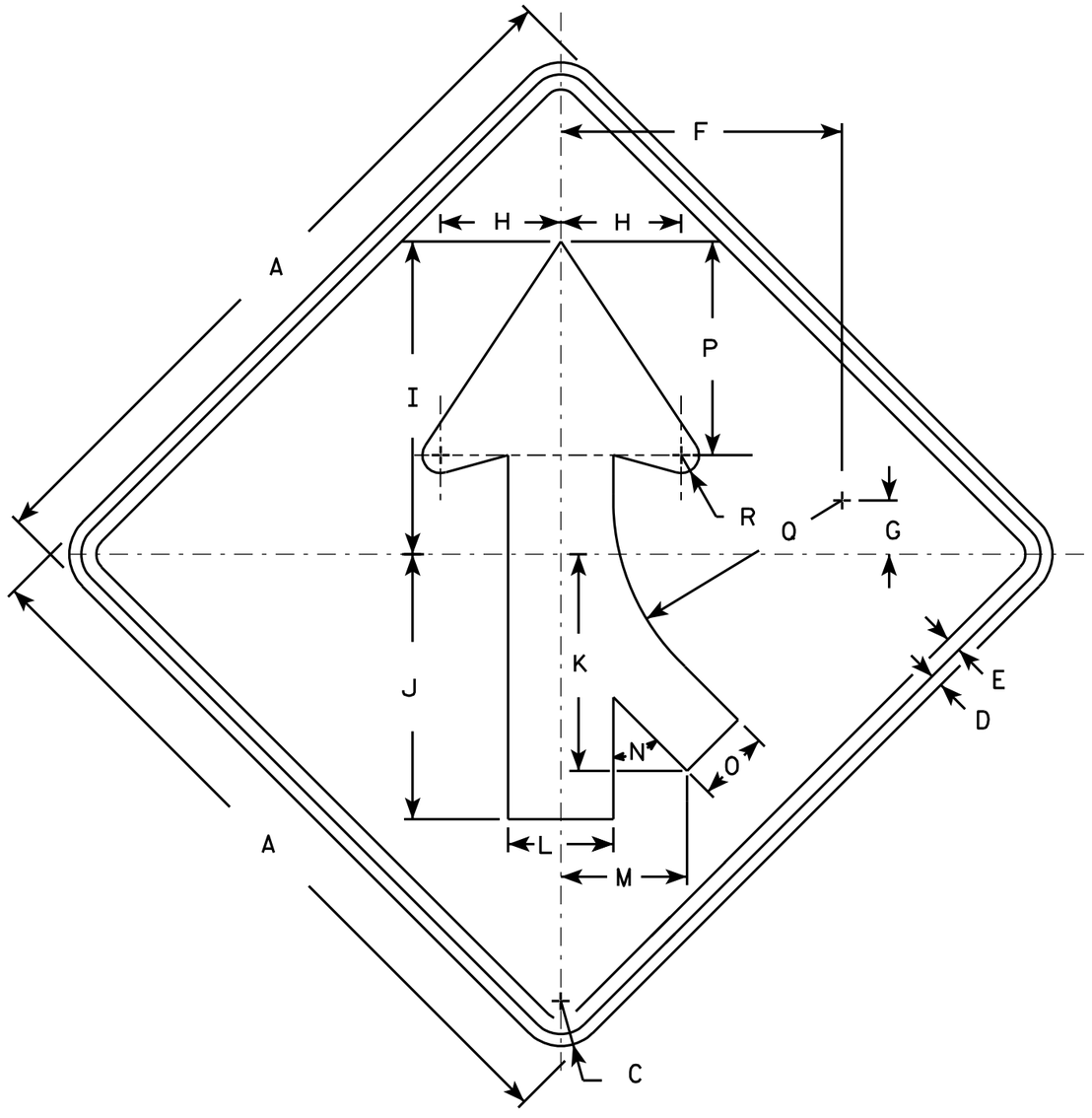
SHEET NO: 568 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W32.DGN PLOT DATE : 07-JUN-2010 13:03 PLOT BY : ditjph

WISDOT/CADDS SHEET 42

7

7



W4-1 R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W4-1L is the same as W4-1R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	11 5/8	2 1/2	5	13	11	9	4 3/8	5 1/4	45°	3	8 7/8	9 1/2	3/4									6.25
2S	36		1 5/8	5/8	3/4	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8									9.0
2M	36		1 5/8	5/8	3/4	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8									9.0
3	36		1 5/8	5/8	3/4	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8									9.0
4	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0
5	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0

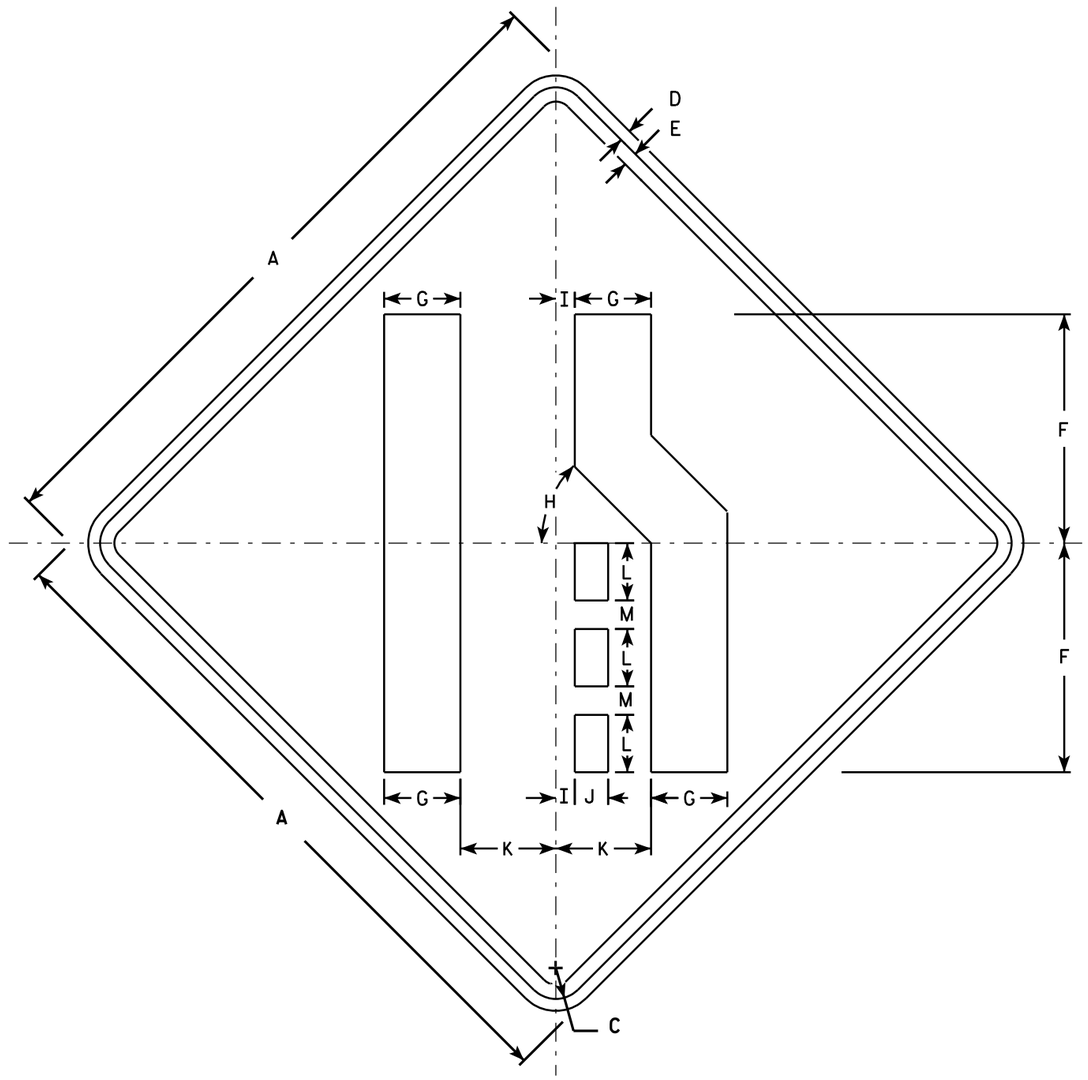
STANDARD SIGN
W4-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/21/11 PLATE NO. W4-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 569 | E



W4-2R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W4-2L is the same as W4-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	10	3 3/8	45°	7/8	1 1/2	4 1/4	2 1/2	1 1/4														6.25
2S	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2M	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
3	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN
W4-2

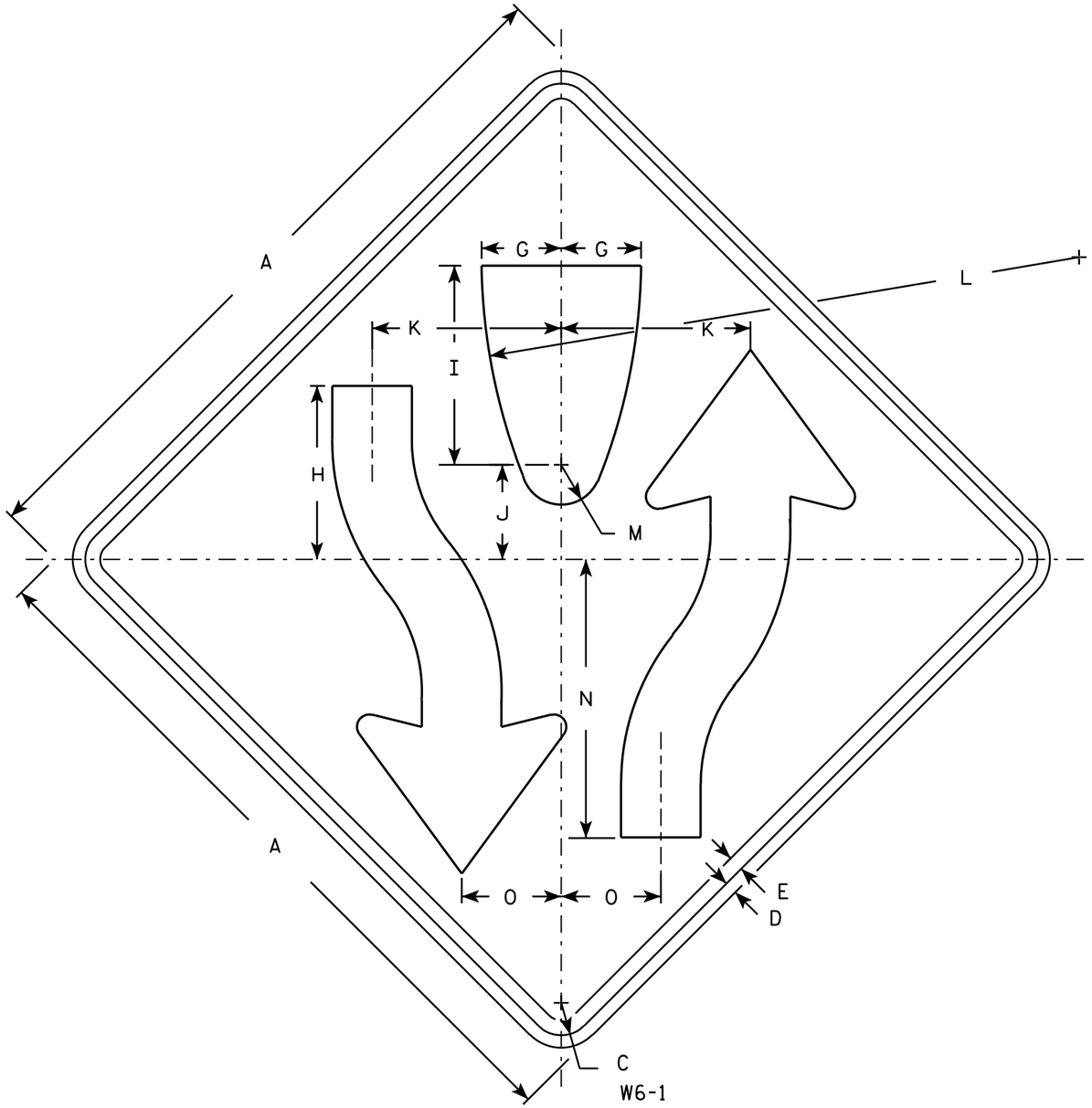
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/11 PLATE NO. W4-2.12

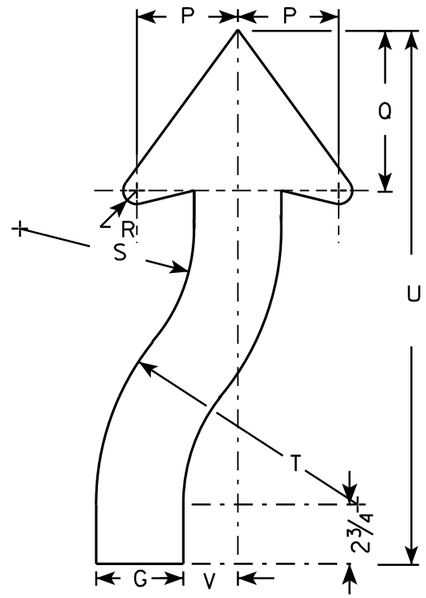
PROJECT NO:

SHEET NO: 570 E



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W6-2 same as W6-1 but is rotated 180° when mounted.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		3 1/4	8	8 1/4	4 1/8	7 7/8	25	1 3/4	11 5/8	4 1/8	3 7/8	6 3/4	5/8	6 5/8	9 7/8	21 5/8	2					6.25
2S	36		1 5/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
2M	36		1 5/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
3																											
4	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0
5	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0

STANDARD SIGN
W6-1 & W6-2

WISCONSIN DEPT OF TRANSPORTATION

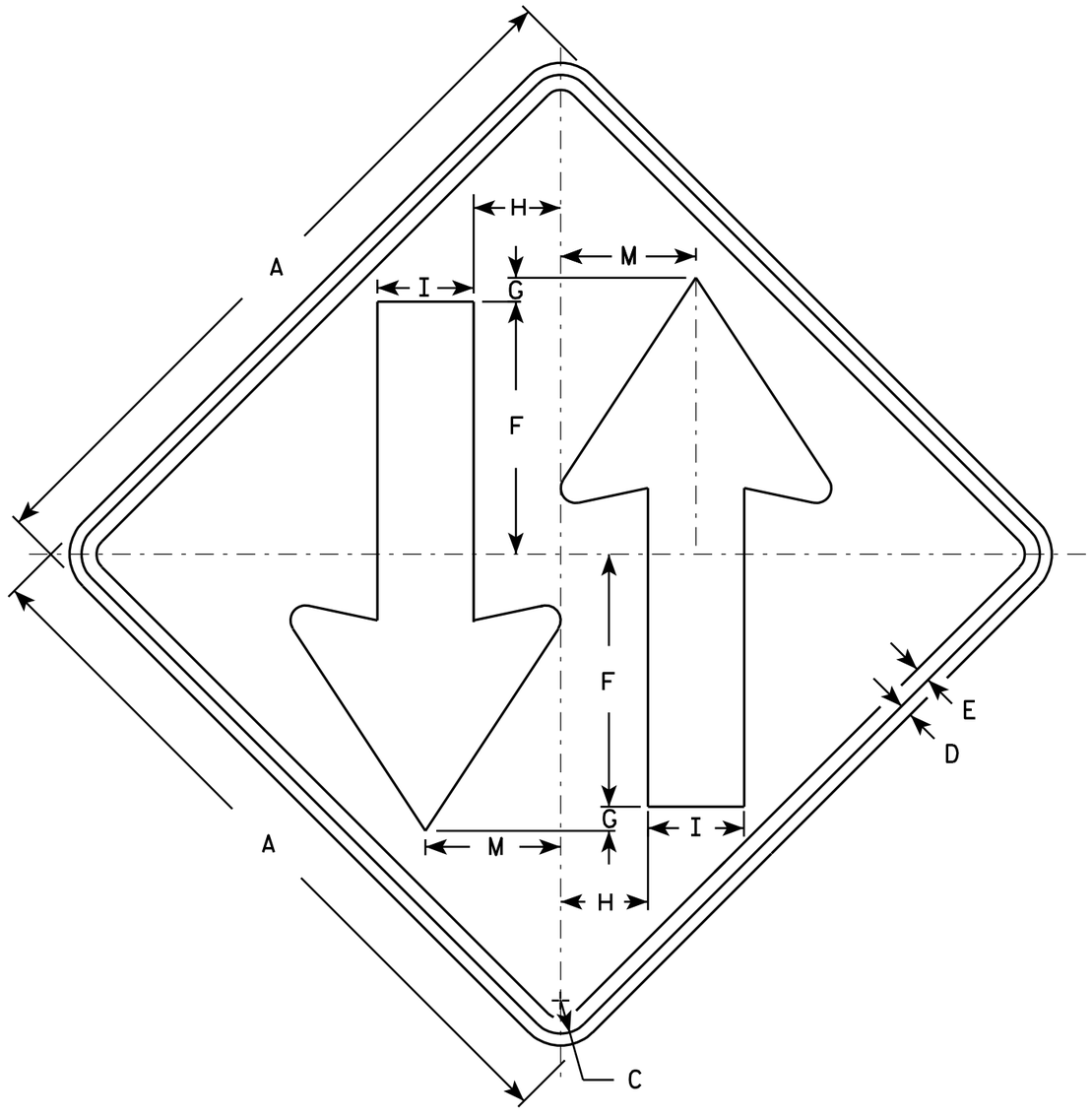
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/22/11 PLATE NO. W6-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 571	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W61.DGN PLOT DATE : 22-MAR-2011 13:21 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 6.952219:1.000000

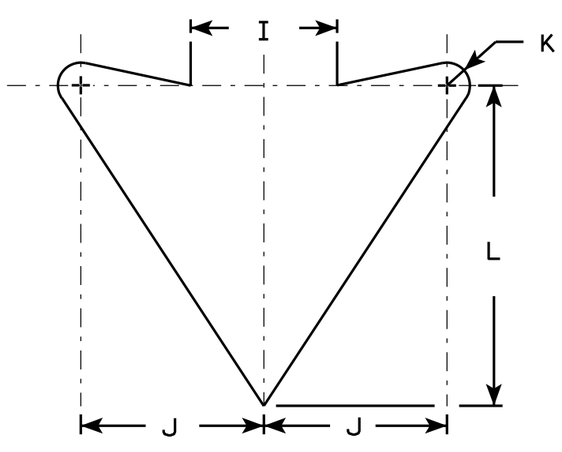
WISDOT/CADDS SHEET 42



W6-3

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	10 1/2	1	3 5/8	4	5	5/8	8 3/4	5 5/8														6.25
2S	36		1 5/8	5/8	3/4	12	1	4 1/4	5	6	3/4	10 1/2	6 3/4														9.0
2M	36		1 5/8	5/8	3/4	12	1	4 1/4	5	6	3/4	10 1/2	6 3/4														9.0
3																											
4	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
5	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0

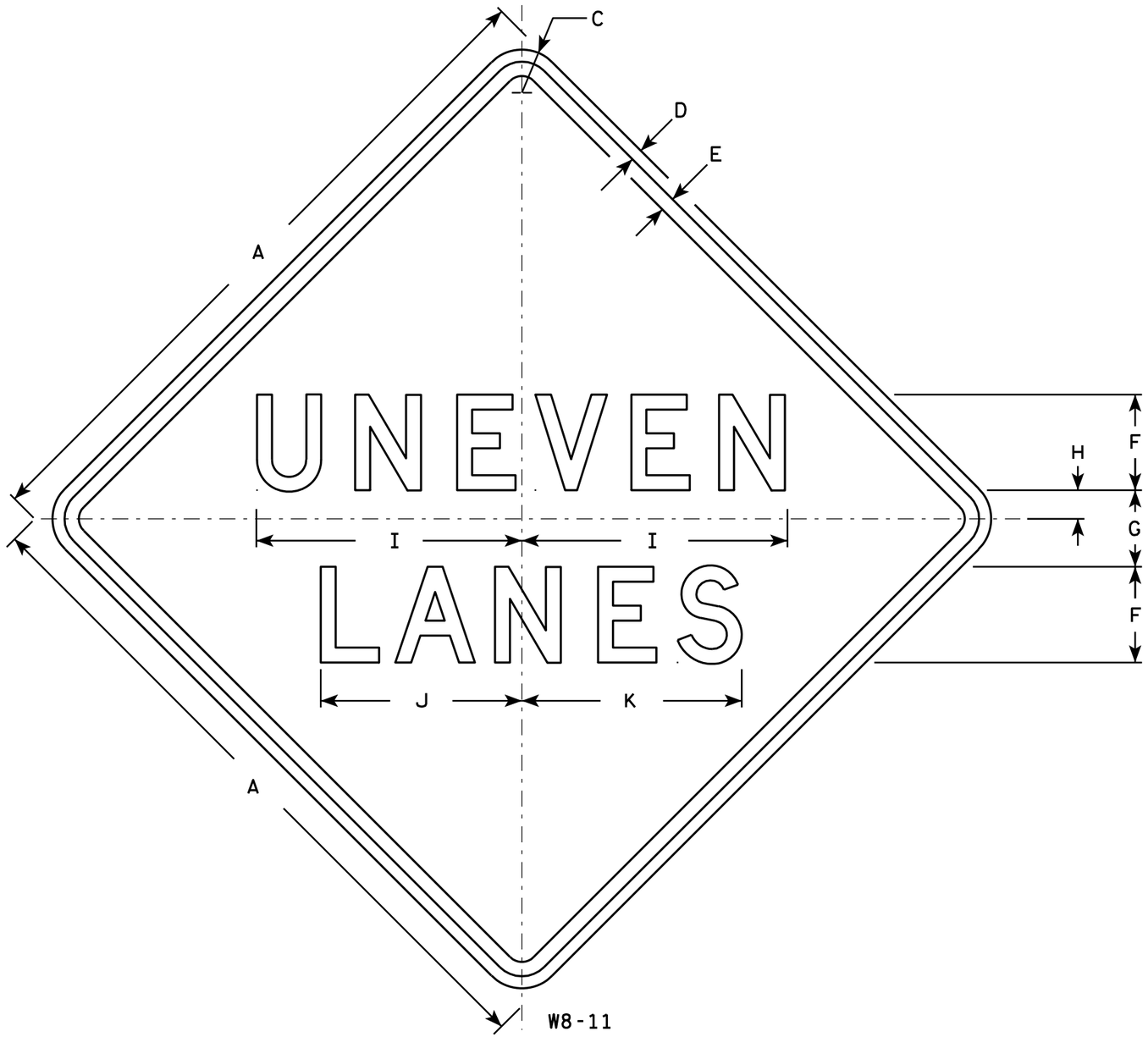
STANDARD SIGN
W6-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/22/11 PLATE NO. W6-3.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 572 | E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		1 5/8	5/8	3/4	5	4	1 1/2	13 7/8	10 1/2	11 1/2																9.0
2M	36		1 5/8	5/8	3/4	5	4	1 1/2	13 7/8	10 1/2	11 1/2																9.0
3																											
4	36		1 5/8	5/8	3/4	5	4	1 1/2	13 7/8	10 1/2	11 1/2																9.0
5	48		2 1/4	3/4	1	7	5	2	18 1/2	14	15 3/8																16.0

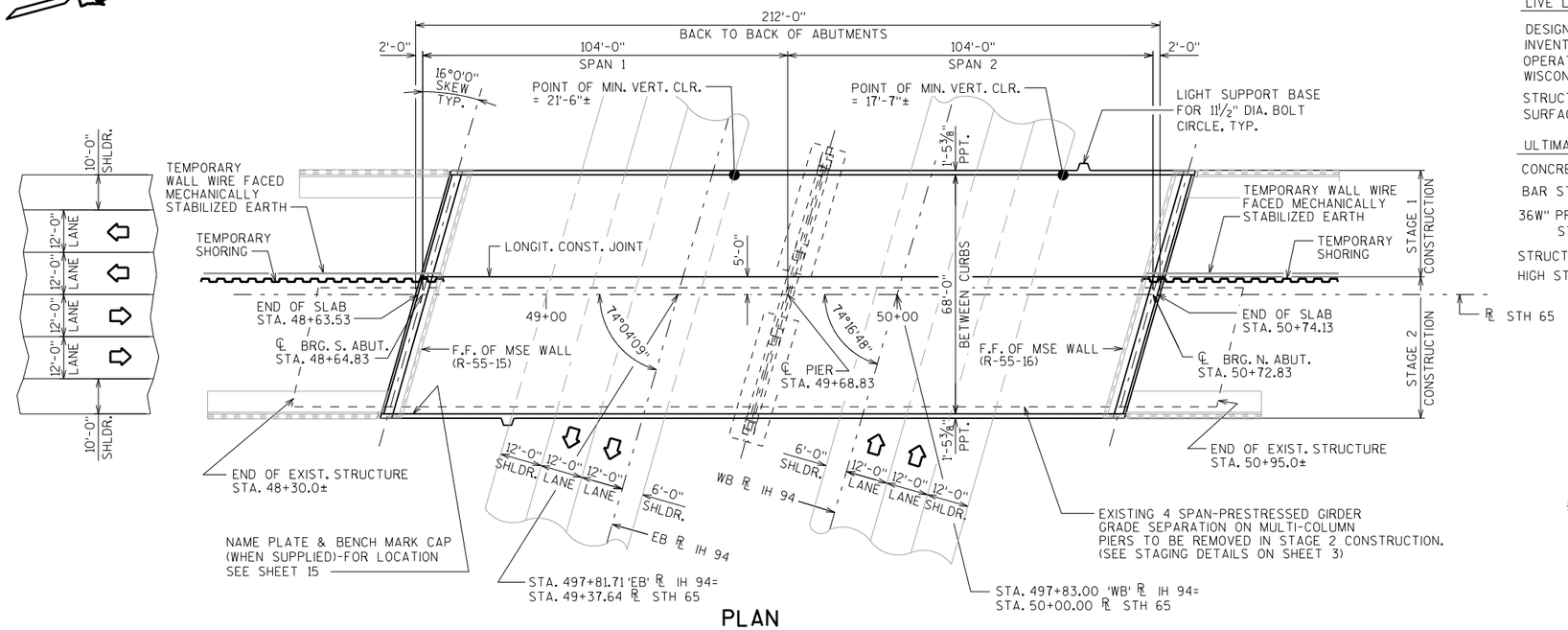
STANDARD SIGN
W8-11

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

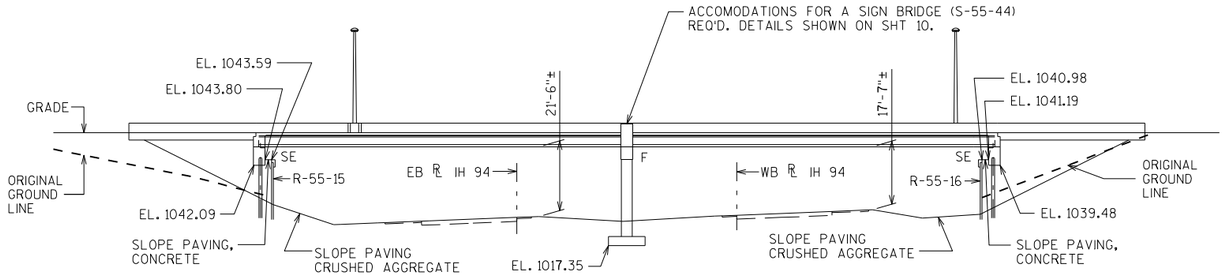
DATE 3/22/11 PLATE NO. W8-11.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 573	E



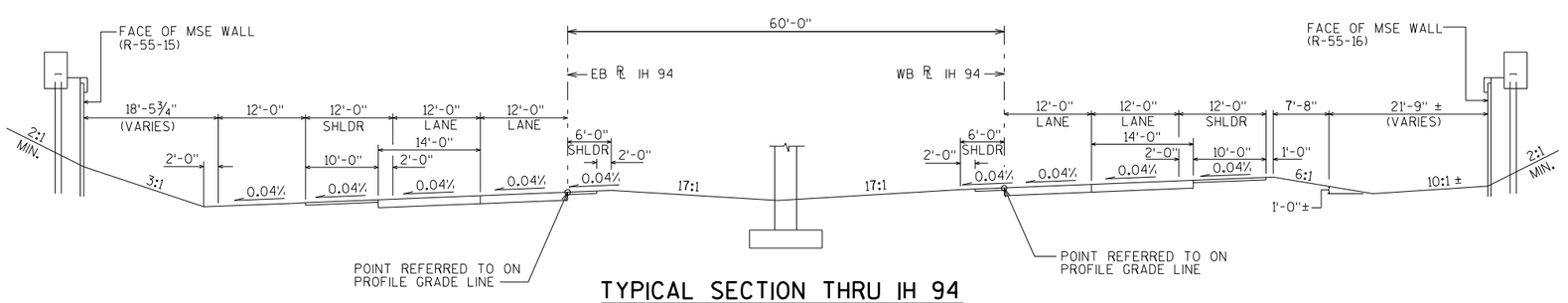
PLAN

2 SPAN-36W" PRESTRESSED GIRDERS



ELEVATION

NORMAL TO IH 94



TYPICAL SECTION THRU IH 94

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF=1.09
OPERATING RATING FACTOR: RF=1.41
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 230 (KIPS)

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

ULTIMATE DESIGN STRESSES:

CONCRETE MASONRY SLAB — f'c = 4,000 P.S.I. ALL OTHER — f'c = 3,500 P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60 — fy = 60,000 P.S.I.
36W" PRESTRESSED GIRDERS, CONCRETE MASONRY — f'c = 8,000 P.S.I.
STRANDS- 0.6" DIA. WITH ULTIMATE TENSILE STRENGTH OF 270,000 P.S.I.
STRUCTURAL CARBON STEEL ASTM A709 GRADE 36 — fy = 36,000 P.S.I.
HIGH STRENGTH STRUCTURAL STEEL ASTM A709 GRADE 50 — fy = 50,000 P.S.I.

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON 10 X 42 HP STEEL PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 180 TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED 45'-0" LONG @ N. ABUT. & 50'-0" LONG @ S. ABUT.

PIER TO BE SUPPORTED ON 10 X 42 HP STEEL PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 180 TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED 25'-0" LONG.

** THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

TRAFFIC VOLUME

STH 65	IH 94
A.D.T.=25,000 (2032)	A.D.T.=69,000 (2032)
R.D.S.=50 M.P.H.	R.D.S.=70 M.P.H.

LIST OF DRAWINGS

1. GENERAL PLAN
2. CROSS SECTION & QUANTITIES
3. CONSTRUCTION STAGING DETAILS
4. SUBSURFACE EXPLORATION
5. SOUTH ABUTMENT
6. SOUTH ABUTMENT DETAILS
7. NORTH ABUTMENT
8. NORTH ABUTMENT DETAILS
9. PIER
10. PIER DETAILS 1
11. PIER DETAILS 2
12. 36W" PRESTRESSED GIRDER DETAILS 1
13. 36W" PRESTRESSED GIRDER DETAILS 2
14. STEEL DIAPHRAGM
15. SUPERSTRUCTURE
16. SUPERSTRUCTURE DETAILS 1
17. SUPERSTRUCTURE DETAILS 2
18. PARAPET "LF" ELECTRICAL WORK
19. SLOPE PAVING (CRUSHED AGGREGATE)
20. SLOPE PAVING (CONCRETE CAST-IN-PLACE)

STRUCTURE DESIGN CONTACT:
ALEXANDER CRABTREE (608) 266-3686
LAURA SHADEWALD (608) 267-9592

STATE PROJECT NUMBER

1020-07-74

NO.	DATE	REVISION	BY

Plans Prepared By WISDOT
BUREAU OF STRUCTURES

ACCEPTED William C. Dreher LLS 6/10/11
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-55-249

STH 65 OVER IH 94

COUNTY ST. CROIX | TOWN ~~CITY/VILLAGE~~ WARREN

DESIGN SPEC. AASHTO LRFD DESIGN SPEC. 5th EDITION

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
ARC	BLB	ARC	CRJ/BLB

GENERAL PLAN

SHEET 1 OF 20

574

I.D. 1020-07-04

DATE: JAN. 2012

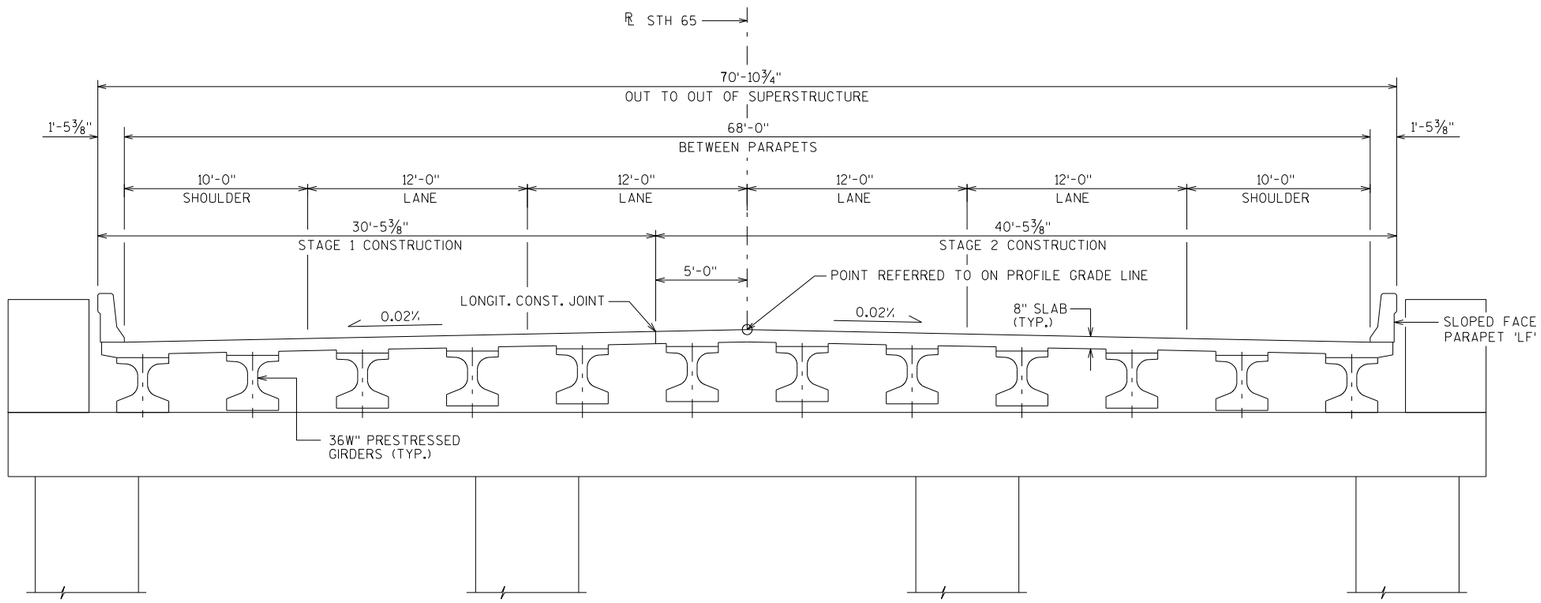
SCALE = 20

8

8

STATE PROJECT NUMBER

1020-07-74



CROSS SECTION THRU ROADWAY LOOKING NORTH

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

AT THE BACKFACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.

ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.

CONCRETE FOR ABUTMENT AND PIER DIAPHRAGMS SHALL BE PLACED WITH THE DECK CONCRETE. NO OPTIONAL CONSTRUCTION JOINT WILL BE PERMITTED.

THE GRADATION OF THE STRUCTURE BACKFILL SHALL MEET THE REQUIREMENTS OF SECTION 209.2.2 OF THE STANDARD SPECIFICATIONS FOR GRADE 1 MATERIAL.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE TOP OF DECK SURFACE AND THE FRONT FACE AND THE TOP OF THE PARAPET.

THE EXISTING GROUND LINE SHALL BE USED AS THE UPPER LIMITS OF EXCAVATION AT THE PIERS.

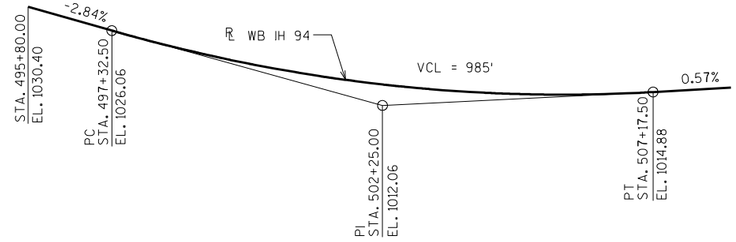
THE SLOPE OF THE FILL IN FRONT OF R-55-15 & R-55-16 SHALL BE COVERED WITH SLOPE PAVING MATERIAL TO THE EXTENT SHOWN ON SHEET 1.

THE FOLLOWING COMPONENTS SHALL BE STAINED LIGHT GRAY (FEDERAL STANDARD COLOR NO.36622) IN ACCORDANCE WITH THE SPECIAL PROVISIONS:

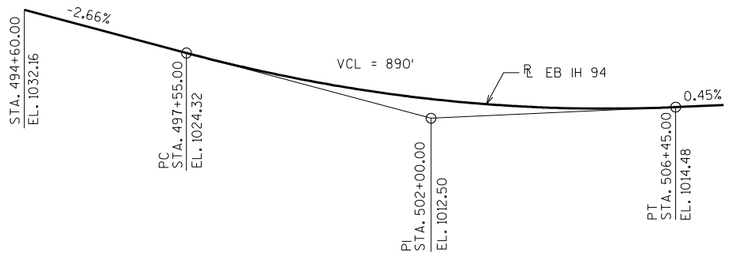
- THE UNDERSIDE OF THE DECK OVERHANGS TO THE EXTERIOR GIRDERS.
- THE EDGES OF THE DECK.
- THE BACK FACES OF THE PARAPETS.
- ALL EXPOSED VERTICAL SURFACES OF THE ABUTMENTS TO 1'-0" BELOW FINISHED GROUNDLINE.
- ALL EXPOSED VERTICAL SURFACES OF THE ABUTMENT DIAPHRAGMS EXCEPT BETWEEN GIRDERS.
- THE OUTSIDE FACE AND UNDERSIDE OF THE BOTTOM FLANGE OF THE EXTERIOR GIRDERS.
- ALL EXPOSED SURFACES OF THE PIER AND ITS DIAPHRAGM, EXCEPT BETWEEN GIRDERS, TO 1'-0" BELOW FINISHED GROUNDLINE.

TOTAL ESTIMATED QUANTITIES

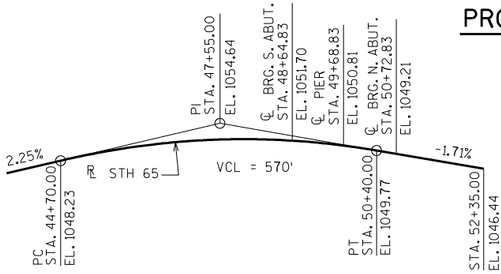
BID ITEM NUMBER	BID ITEMS	UNIT	SUPER.	SOUTH ABUT.	NORTH ABUT.	PIER	TOTALS
203.0200	REMOVING OLD STRUCTURE STA. 49+64	LS	———	———	———	———	1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-55-249	LS	———	———	———	———	1
206.6000.S	TEMPORARY SHORING	SF	———	1,000	1,000	———	2,000
210.0100	BACKFILL STRUCTURE	CY	———	220	220	———	440
502.0100	CONCRETE MASONRY BRIDGES	CY	539	47	48	180	814
502.3200	PROTECTIVE SURFACE TREATMENT	SY	1,760	———	———	———	1,760
503.0137	PRESTRESSED GIRDER TYPE I 36W-INCH	LF	2,505	———	———	———	2,505
505.0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB	———	4,200	4,380	9,000	17,580
505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	113,130	150	150	29,080	142,510
505.0904	BAR COUPLERS NO. 4	EACH	6	4	4	4	18
505.0905	BAR COUPLERS NO. 5	EACH	———	———	———	8	8
505.0906	BAR COUPLERS NO. 6	EACH	16	17	17	———	50
505.0909	BAR COUPLERS NO. 9	EACH	———	———	———	9	9
505.0910	BAR COUPLERS NO. 10	EACH	———	———	———	11	11
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	———	12	12	24	48
506.4000	STEEL DIAPHRAGMS B-55-249	EACH	44	———	———	———	44
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	———	14	14	———	28
517.1010.S	CONCRETE STAINING B-55-249	SF	4,710	420	420	2,320	7,870
550.1100.S	PILING STEEL HP 10-INCH X 42 LB	LF	———	600	540	1,050	2,190
604.0400	SLOPE PAVING CONCRETE	SY	———	15	15	———	30
604.0500	SLOPE PAVING CRUSHED AGGREGATE	SY	———	150	136	———	286
652.0125	CONDUIT RIGID METALLIC 2-INCH	LF	40	———	———	———	40
652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	LF	820	———	———	———	820
653.0222	JUNCTION BOXES 18X12X6-INCH	EACH	2	———	———	———	2
657.6005.S	ANCHOR ASSEMBLIES LIGHT POLES ON STRUCTURES	EACH	2	———	———	———	2
SPV.0060	ANCHOR BOLT ASSEMBLY	EACH	2	———	———	———	2
	NON-BID ITEMS						
	FILLER	SIZE	———	———	———	———	½" & ¾"



PROFILE GRADE LINE WB IH 94



PROFILE GRADE LINE EB IH 94



PROFILE GRADE LINE STH 65

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-249

DRAWN BY ARC | PLANS CK'D. CRJ/BLB

CROSS SECTION & QUANTITIES

SHEET 2

575

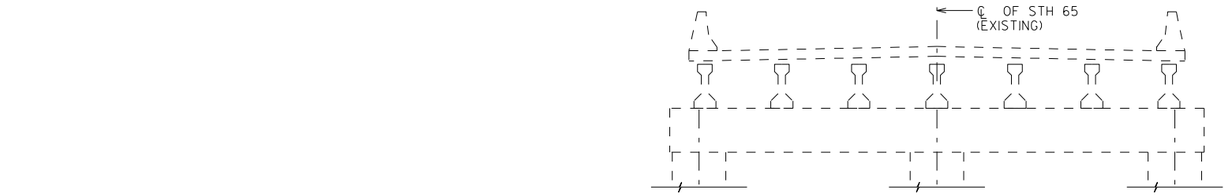
SCALE = 4

8

8

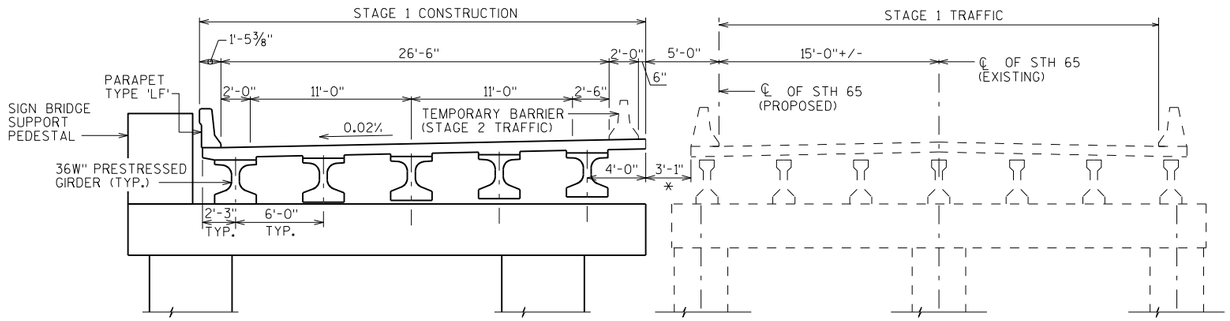
STATE PROJECT NUMBER

1020-07-74



EXISTING STRUCTURE (TO REMAIN THRU STAGE 1)

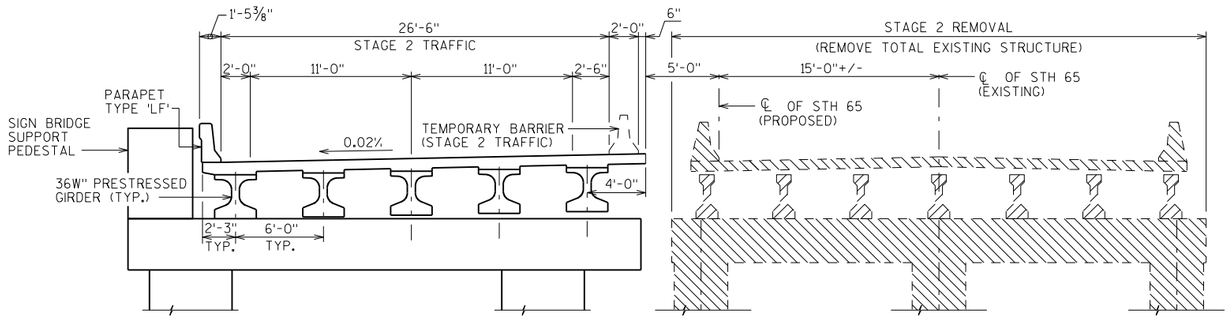
(LOOKING NORTH)



ELEVATION - STAGE 1

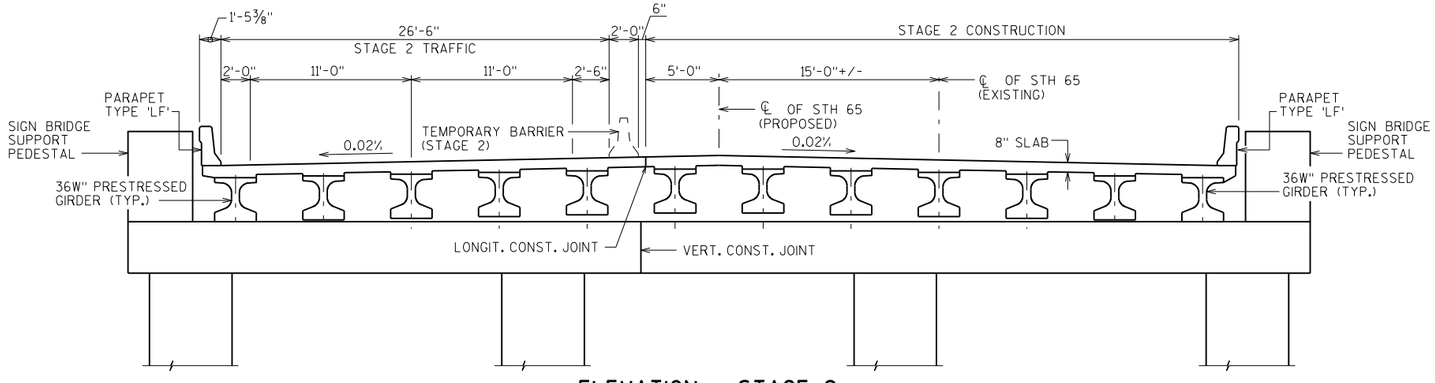
(LOOKING NORTH)

* DIMENSION ALLOWS ROOM FOR TRANSVERSE LAP STEEL



ELEVATION - STAGE 2

(SHOWING REMOVAL)



ELEVATION - STAGE 2

(LOOKING NORTH)

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-249

DRAWN BY ARC | PLANS CK'D. CRJ/BLB

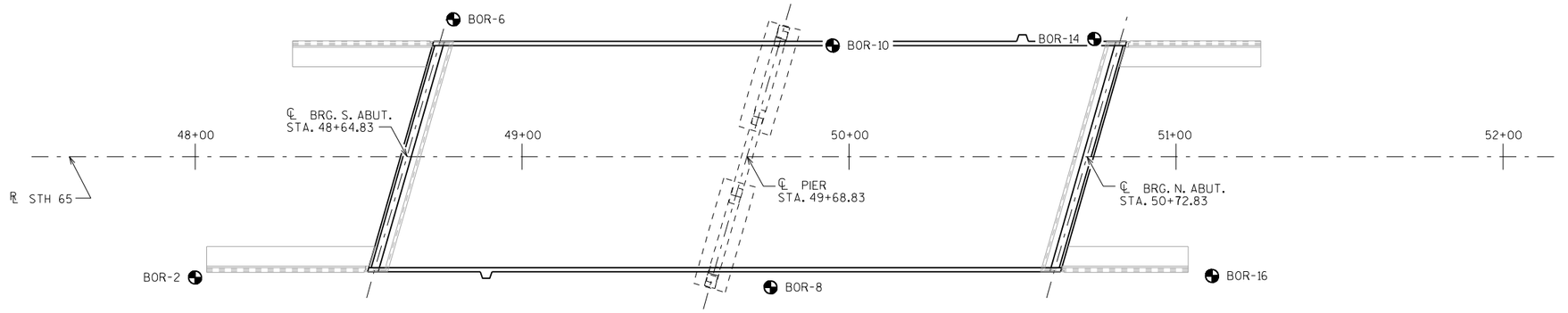
CONSTRUCTION STAGING DETAILS

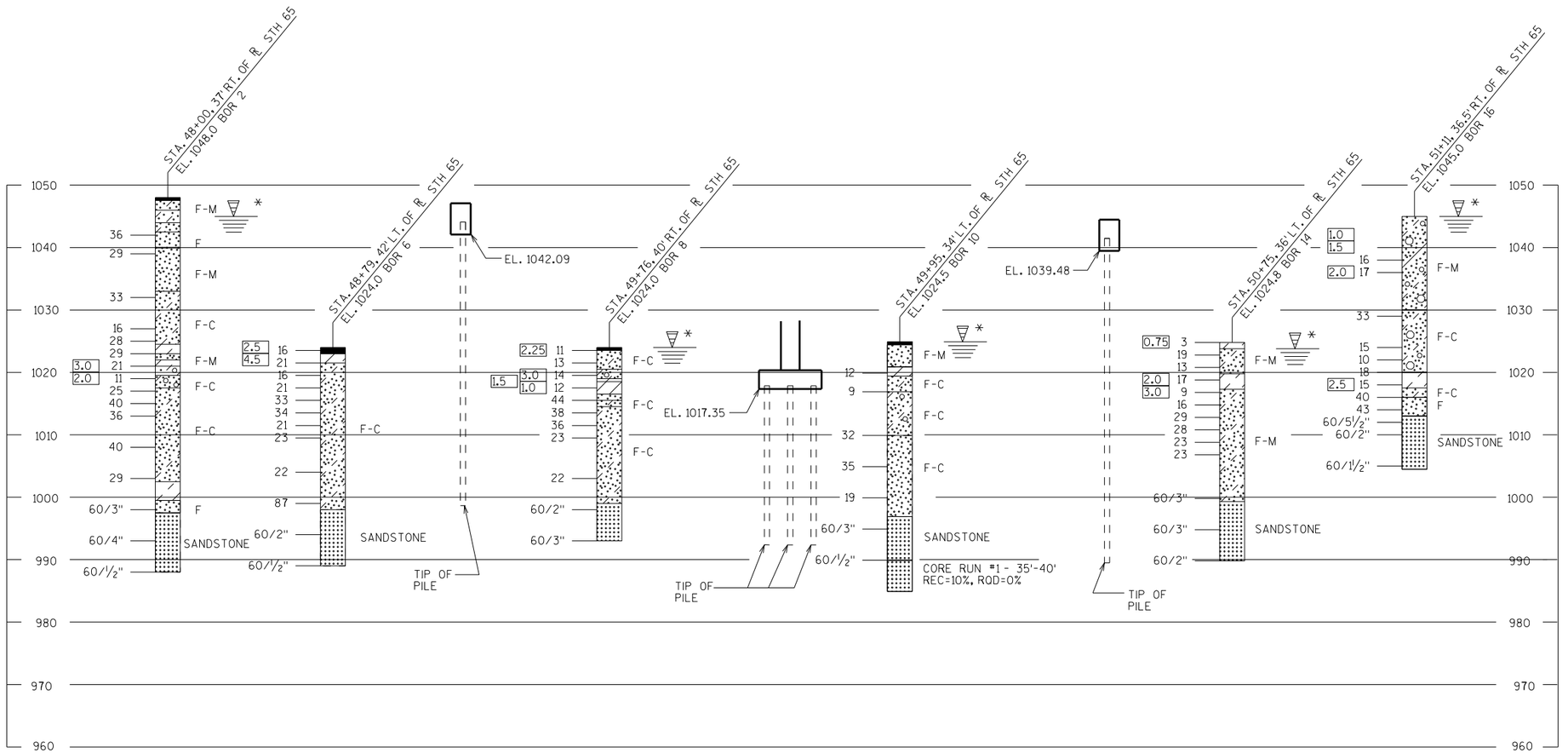
SHEET 3

576

SCALE = 5

STH 65 OVER IH 94
HUDSON - MENOMINEE





* THE GROUND WATER ELEVATION WAS DETERMINED FROM WHERE THE SOIL SAMPLE WAS DESCRIBED AS WET.

STATE PROJECT NUMBER

1020-07-74

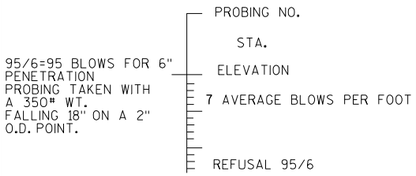
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

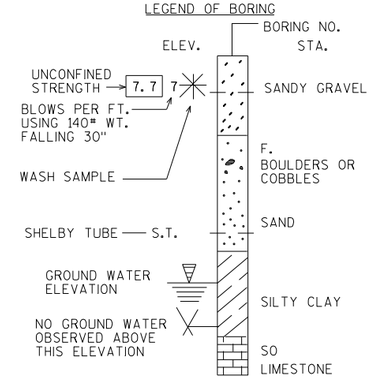
MATERIAL SYMBOLS

TOPSOIL, SILT, SANDSTONE, SAND, PEAT, LIMESTONE, GRAVEL, CLAY, IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-249

DRAWN BY ARC | PLANS CK'D. CRJ/BLB

SUBSURFACE EXPLORATION

SHEET 4

577

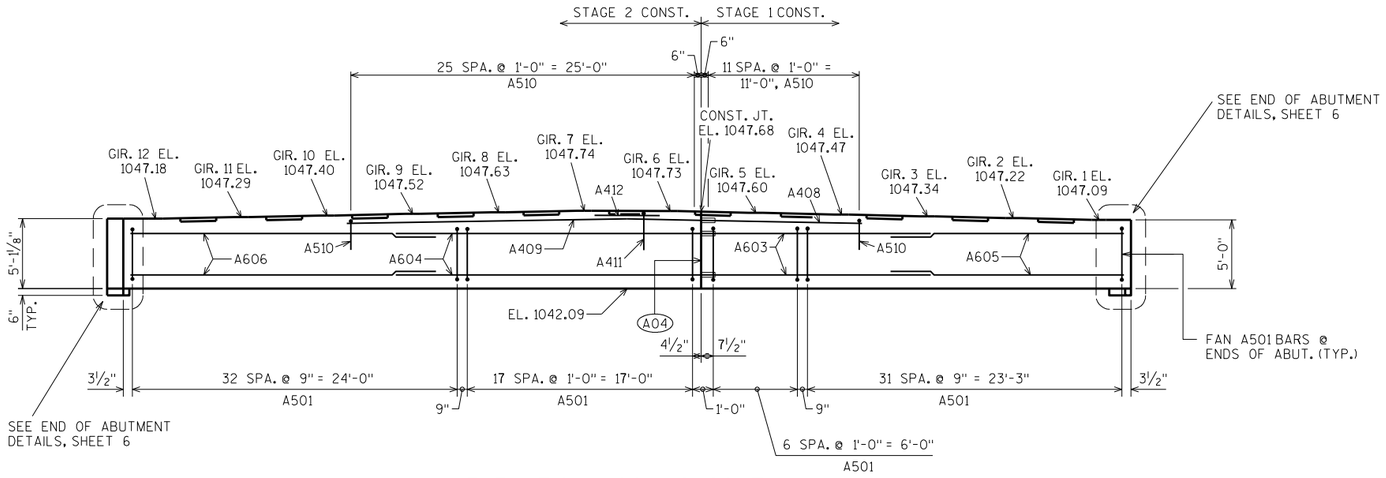
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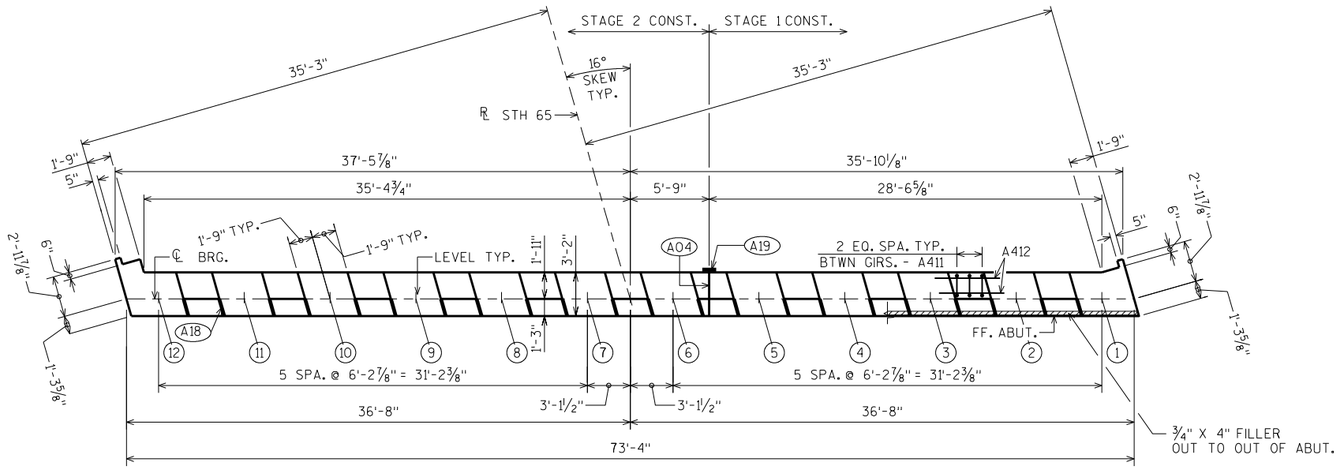
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STATE PROJECT NUMBER

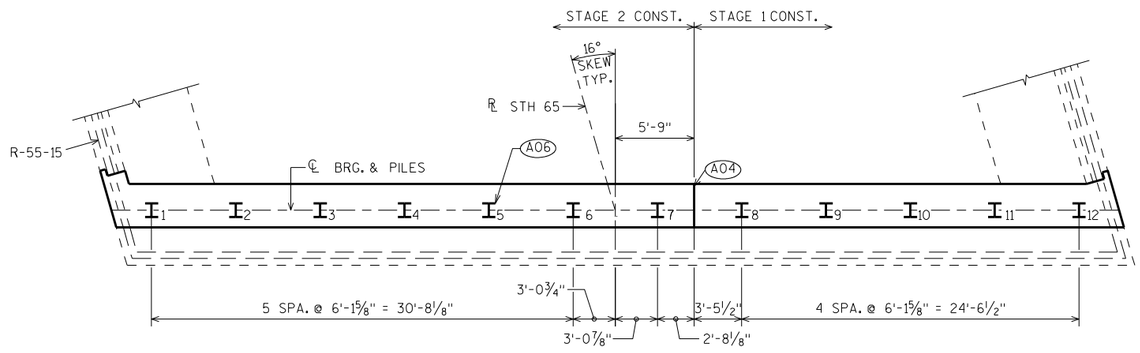
1020-07-74



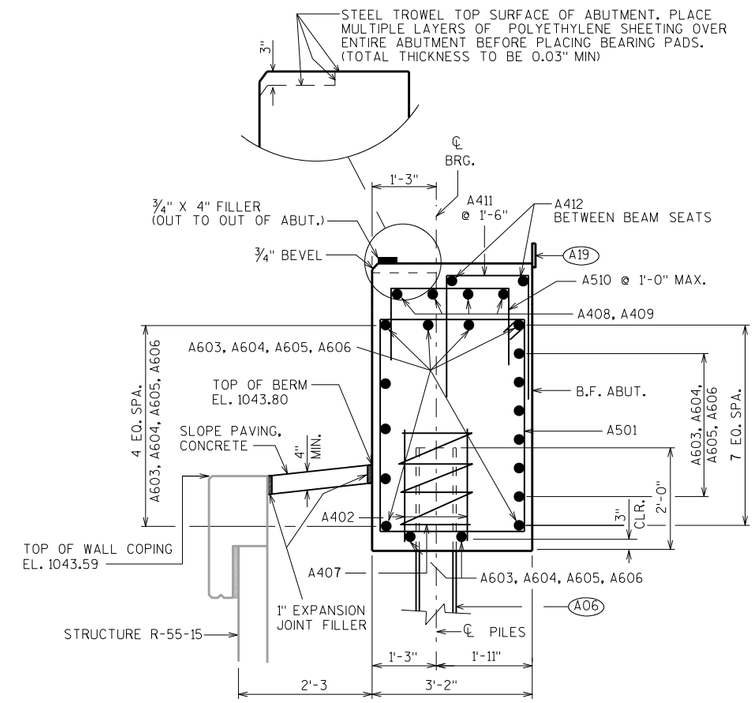
ELEVATION LOOKING SOUTH



PLAN



PILE PLAN



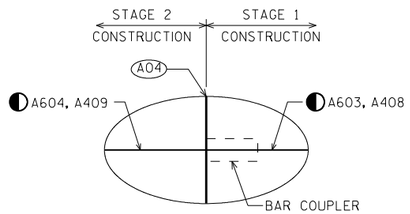
SECTION THRU BODY

(A04) VERT. CONSTRUCTION JOINT: KEYWAY FORMED BY A BEVELED 2 X 8. ¾" "V" GROOVE @ THE FRONT FACE AND 18" R.M.W. @ BACKFACE.

(A06) SUPPORT ABUTMENT ON HP 10 X 42 STEEL PILING, ESTIMATED 50'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE.

(A18) ¾" CORK FILLER UP VERT. BEAM SEAT FACES THAT RUN PARALLEL WITH GIRDER.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.



BAR COUPLER DETAIL

◐ BAR LENGTH HAS BEEN COMPUTED TO ℄ OF VERTICAL CONSTRUCTION JOINT AND SHALL BE MODIFIED TO BAR COUPLER MANUFACTURER RECOMMENDATIONS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-249

DRAWN BY ARC | PLANS CK'D. CRJ/BLB

SOUTH ABUTMENT | SHEET 5 | 578

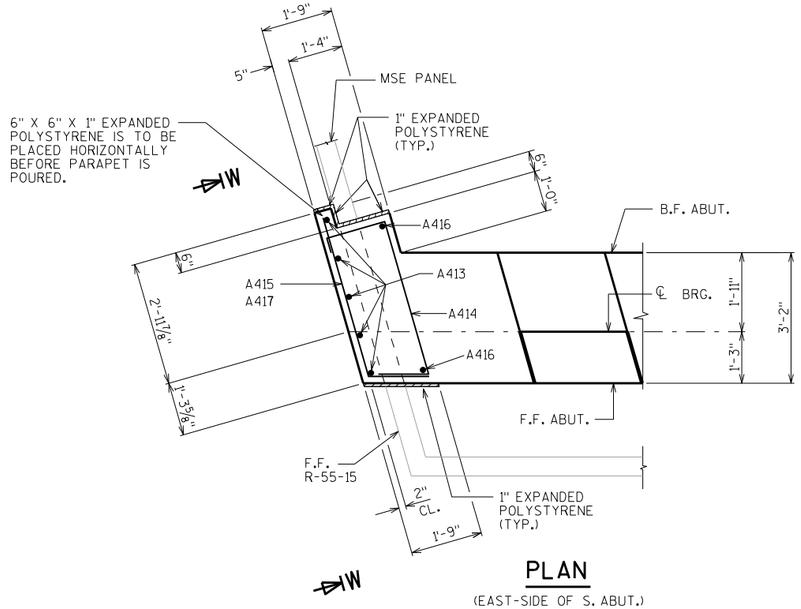
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8

STATE PROJECT NUMBER

1020-07-74



PLAN

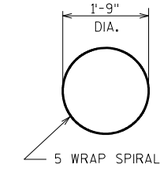
(EAST-SIDE OF S. ABUT.)

BILL OF BARS

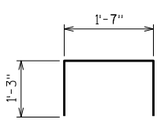
NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A501		90	15'-0"	X		BODY-STIRRUPS
A402		24	2'-3"			PILES-2 PER BODY PILE
◐A603		17	17'-0"			BODY-HORIZ.-F.F.-B.F.-STAGE 1 CONST.
◐A604		17	22'-10"			BODY-HORIZ.-F.F.-B.F.-STAGE 2 CONST.
A605		17	17'-0"			BODY-HORIZ.-F.F.-B.F.-STAGE 1 CONST.
A606		17	22'-10"			BODY-HORIZ.-F.F.-B.F.-STAGE 2 CONST.
A407		12	28'-0"	X		PILES-1 PER BODY PILE
◐A408		4	11'-7"			BODY-HORIZ.-TOP-STAGE 1
◐A409		4	25'-7"			BODY-HORIZ.-TOP-STAGE 2
A510		38	6'-1"	X		BODY-TOP-VERT.-STAGES 1 & 2
A411		33	3'-11"	X		BODY-VERT.-BETWEEN BEAM SEATS
A412		22	4'-9"			BODY-HORIZ.-BETWEEN BEAM SEATS
A413	X	5	5'-3"			ABUT.-END-VERT.-STAGE 2
A414	X	6	7'-1"	X		ABUT.-END-HORIZ.-STAGE 2
A415	X	6	5'-4"	X		ABUT.-END-HORIZ.-STAGE 2
A416	X	2	4'-8"			ABUT.-END-VERT.-STAGE 2
A417	X	2	3'-11"			ABUT.-END-HORIZ.-STAGES 1 & 2
A418	X	5	5'-2"			ABUT.-END-VERT.-STAGE 1
A419	X	6	6'-3"	X		ABUT.-END-HORIZ.-STAGE 1
A420	X	6	5'-4"	X		ABUT.-END-HORIZ.-STAGE 1
A421	X	2	4'-7"			ABUT.-END-VERT.-STAGE 1

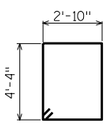
◐BAR LENGTH HAS BEEN COMPUTED TO ℄ OF VERTICAL CONSTRUCTION JOINT AND SHALL BE MODIFIED TO BAR COUPLER MANUFACTURER RECOMMENDATIONS.



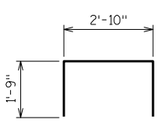
A407



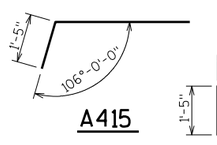
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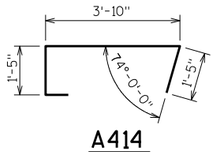
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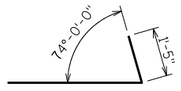
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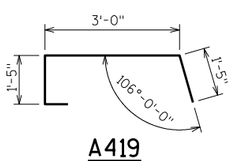
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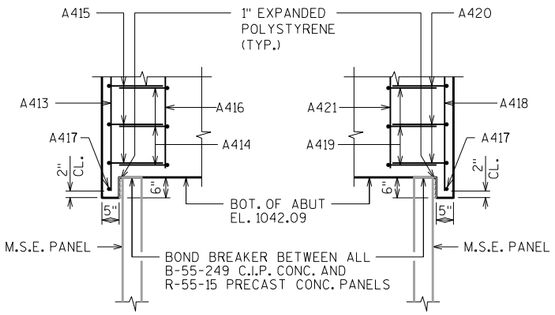
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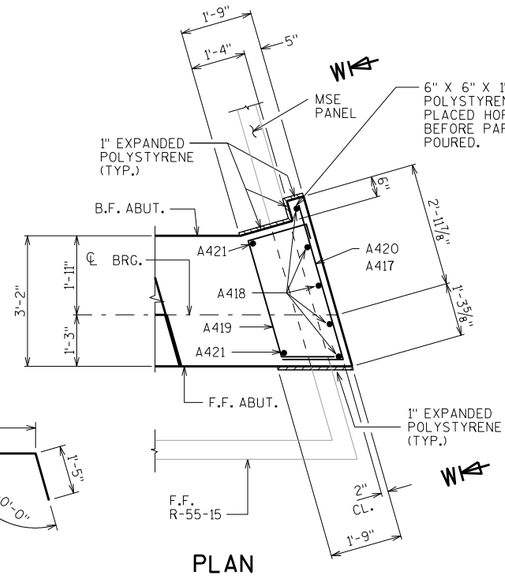


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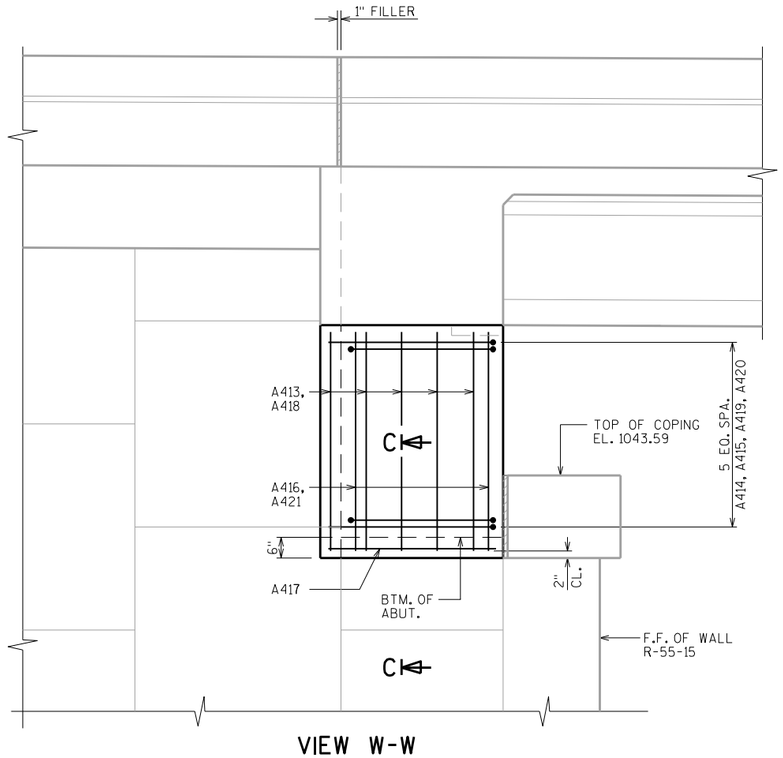
(EAST-SIDE OF S. ABUT.) (WEST-SIDE OF S. ABUT.)

SECTION C-C



PLAN

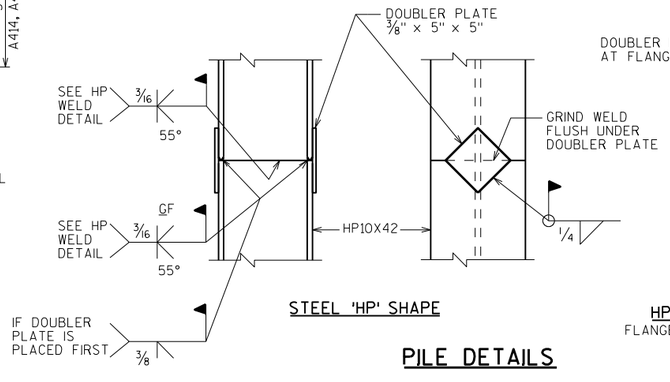
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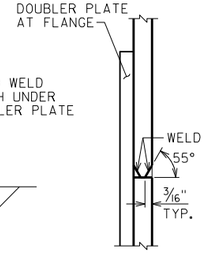
VIEW W-W

(LOOKING WEST, OTHER END OF ABUTMENT SIMILAR)

END OF ABUTMENT DETAILS



STEEL 'HP' SHAPE



HP WELD DETAIL

FLANGE SHOWN, WEB SIMILAR

PILE DETAILS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-249

DRAWN BY ARC | PLANS CK'D. CRJ/BLB

SOUTH ABUTMENT DETAILS

SHEET 6

579

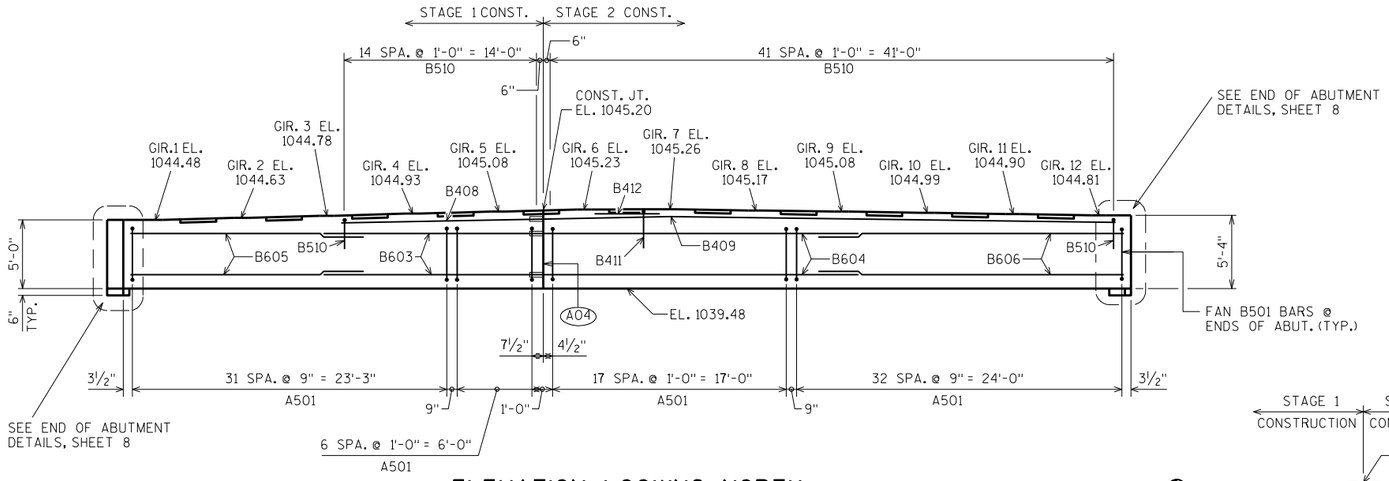
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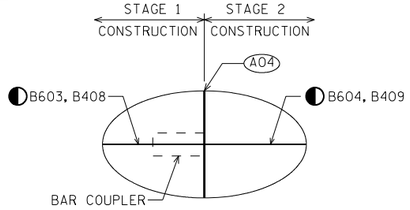
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STATE PROJECT NUMBER

1020-07-74

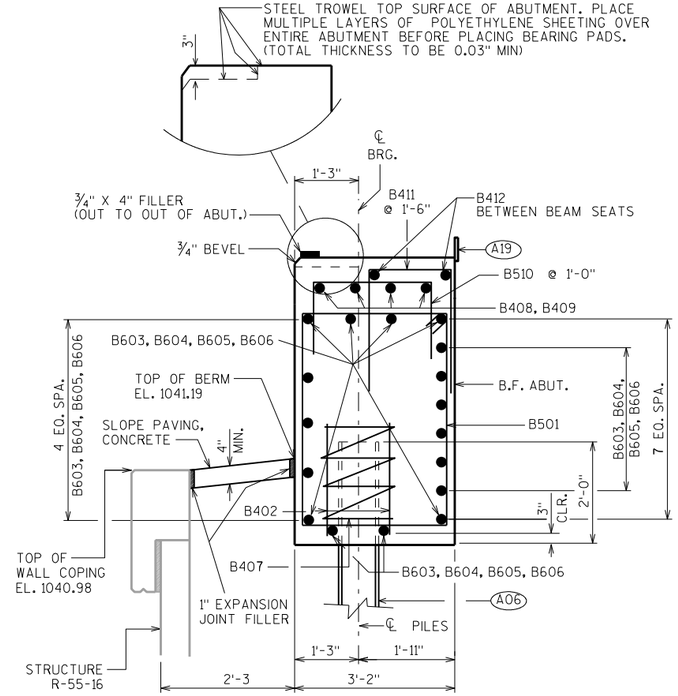


ELEVATION LOOKING NORTH



BAR COUPLER DETAIL

◐ BAR LENGTH HAS BEEN COMPUTED TO ℄ OF VERTICAL CONSTRUCTION JOINT AND SHALL BE MODIFIED TO BAR COUPLER MANUFACTURER RECOMMENDATIONS.



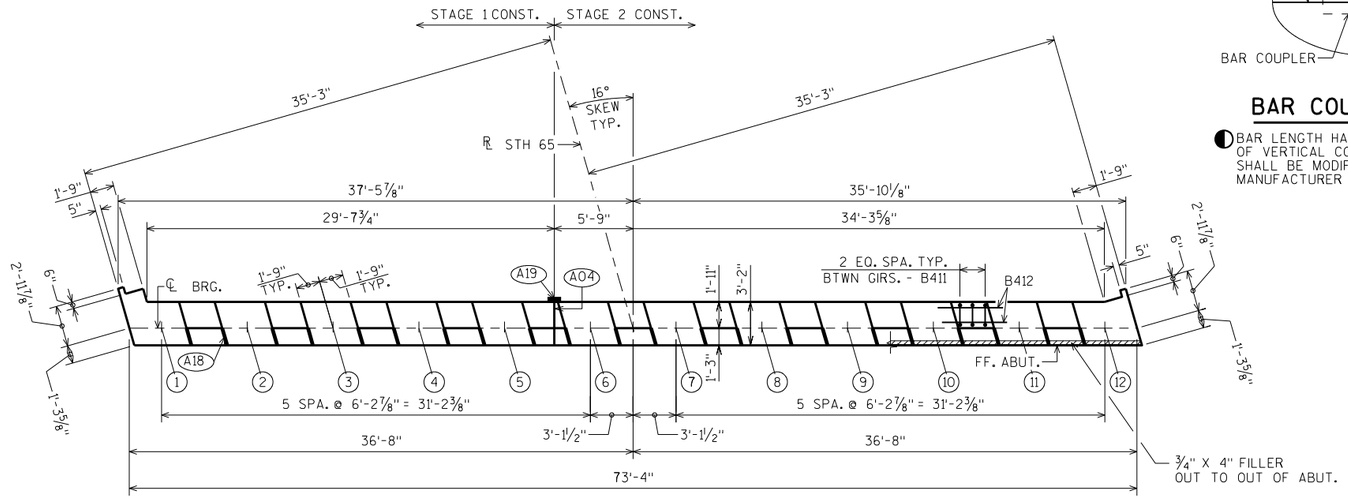
SECTION THRU BODY

(A04) VERT. CONSTRUCTION JOINT: KEYWAY FORMED BY A BEVELED 2 X 8.¾" "V" GROOVE @ THE FRONT FACE AND 18" R.M.W. @ BACKFACE. FOR ALTERNATE CONST. JT. DETAILS SEE SHEET 16.

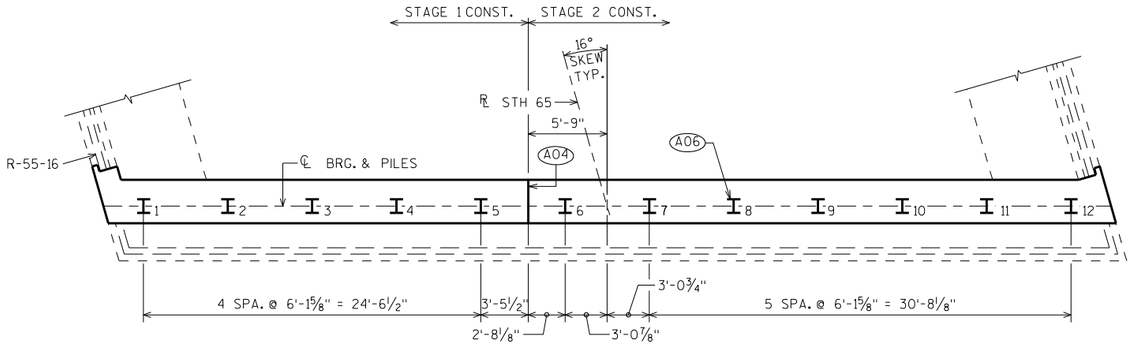
(A06) SUPPORT ABUTMENT ON HP 10 x 42 STEEL PILING, ESTIMATED 45'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE.

(A18) 3/4" CORK FILLER UP VERT. BEAM SEAT FACES THAT RUN PARALLEL WITH GIRDER.

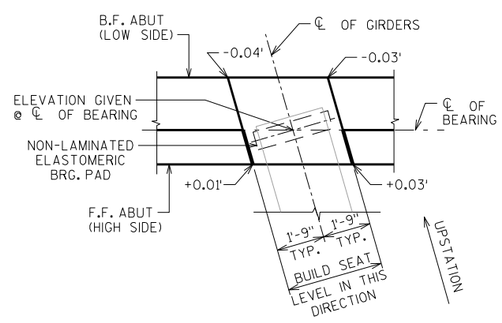
(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.



PLAN



PILE PLAN



SLOPED BEAM SEAT DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-249

DRAWN BY ARC | PLANS CK'D. CRJ/BLB

NORTH ABUTMENT | SHEET 7 | 580

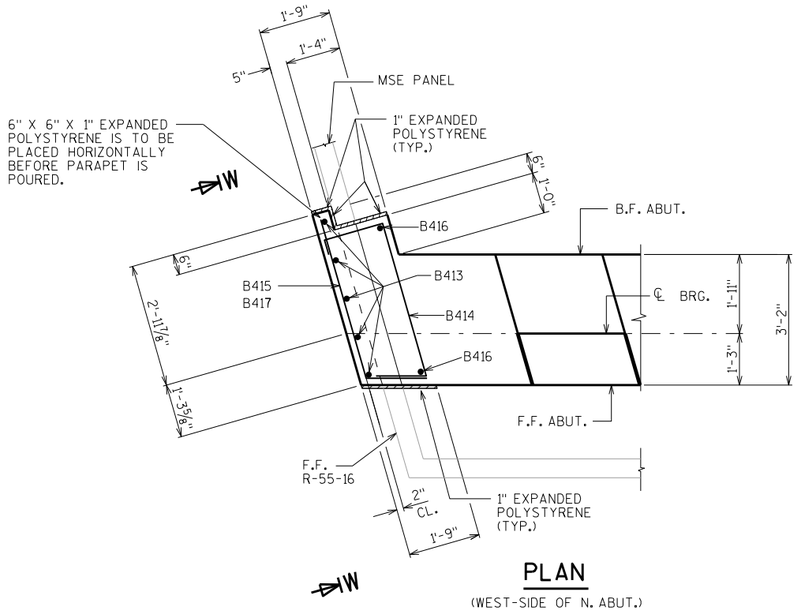
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STATE PROJECT NUMBER

1020-07-74



PLAN

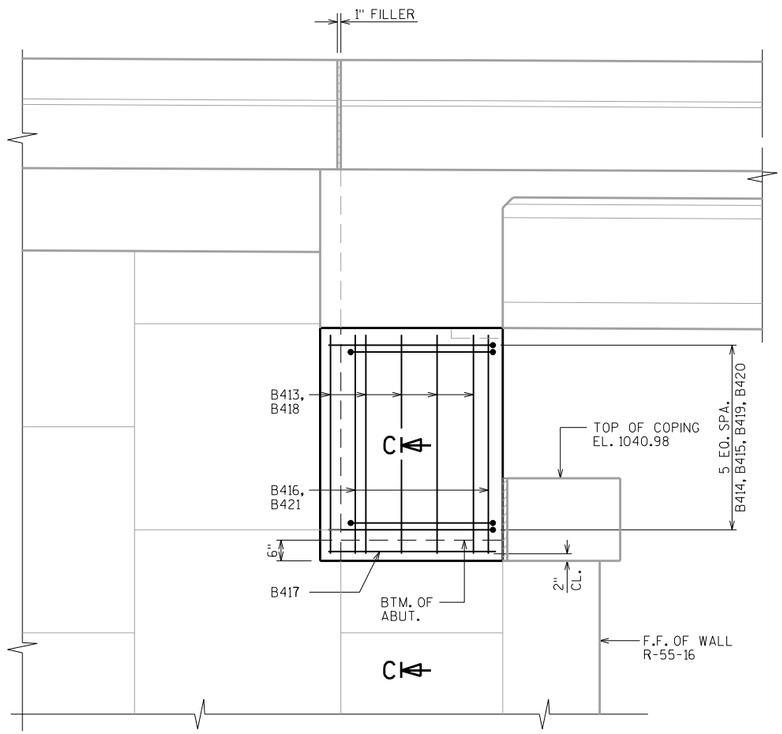
(WEST-SIDE OF N. ABUT.)

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B501		90	15'-0"	X		BODY-STIRRUPS
B402		24	2'-3"			PILES-2 PER BODY PILE
◐ B603		17	17'-0"			BODY-HORIZ.-F.F.-B.F.-STAGE 1 CONST.
◐ B604		17	22'-10"			BODY-HORIZ.-F.F.-B.F.-STAGE 2 CONST.
B605		17	17'-0"			BODY-HORIZ.-F.F.-B.F.-STAGE 1 CONST.
B606		17	22'-10"			BODY-HORIZ.-F.F.-B.F.-STAGE 2 CONST.
B407		12	28'-0"	X		PILES-1 PER BODY PILE
◐ B408		4	14'-7"			BODY-HORIZ.-TOP-STAGE 1
◐ B409		4	41'-7"			BODY-HORIZ.-TOP-STAGE 2
B510		57	6'-3"	X		BODY-VERT.-TOP-STAGES 1 & 2
B411		33	3'-11"	X		BODY-VERT.-BETWEEN BEAM SEATS
B412		22	4'-9"			BODY-HORIZ.-BETWEEN BEAM SEATS
B413	X	5	5'-2"			ABUT.-END-VERT.-STAGE 1
B414	X	6	7'-1"	X		ABUT.-END-HORIZ.-STAGE 1
B415	X	6	5'-4"	X		ABUT.-END-HORIZ.-STAGE 1
B416	X	2	4'-7"			ABUT.-END-VERT.-STAGE 1
B417	X	2	3'-11"			ABUT.-END-HORIZ.-STAGES 1 & 2
B418	X	5	5'-6"			ABUT.-END-VERT.-STAGE 2
B419	X	6	6'-3"	X		ABUT.-END-HORIZ.-STAGE 2
B420	X	6	5'-4"	X		ABUT.-END-HORIZ.-STAGE 2
B421	X	2	4'-11"			ABUT.-END-VERT.-STAGE 2

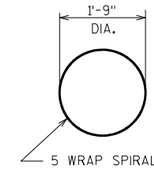
◐ BAR LENGTH HAS BEEN COMPUTED TO ℄ OF VERTICAL CONSTRUCTION JOINT AND SHALL BE MODIFIED TO BAR COUPLER MANUFACTURER RECOMMENDATIONS.



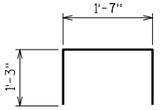
VIEW W-W

(LOOKING EAST, OTHER END OF ABUTMENT SIMILAR)

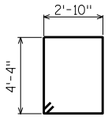
END OF ABUTMENT DETAILS



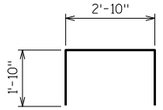
B407



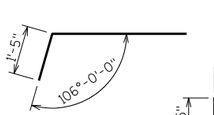
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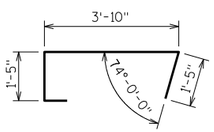
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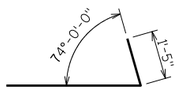
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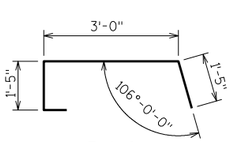
B415



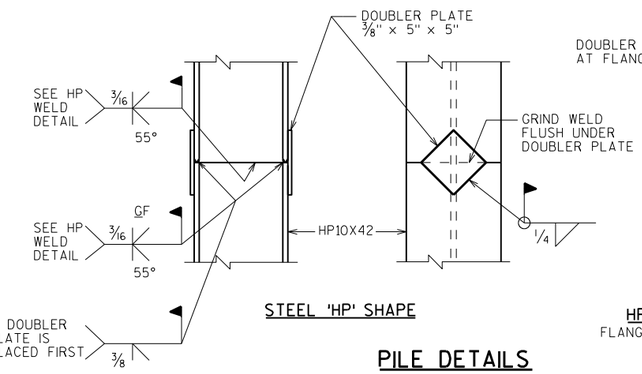
B414



B420



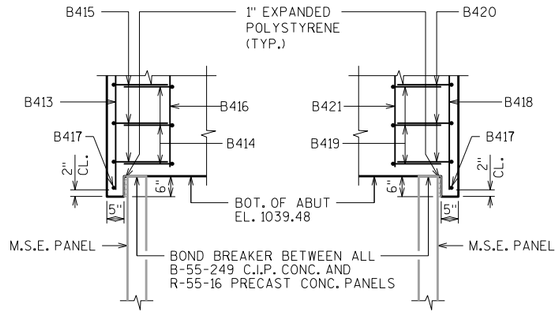
B419



STEEL 'HP' SHAPE

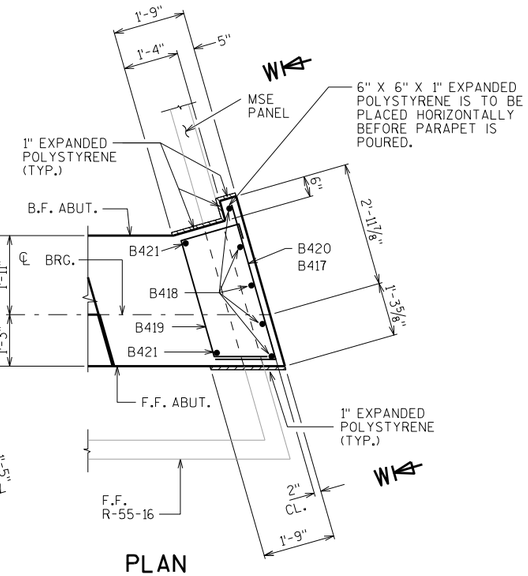
HP WELD DETAIL
FLANGE SHOWN, WEB SIMILAR

PILE DETAILS



(WEST-SIDE OF N. ABUT.) (EAST-SIDE OF N. ABUT.)

SECTION C-C



PLAN

(EAST-SIDE OF N. ABUT.)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-249

DRAWN BY ARC | PLANS CK'D. CRJ/BLB

NORTH ABUTMENT DETAILS

SHEET 8

581

SCALE = 2.666

8

8

STATE PROJECT NUMBER
1020-07-74

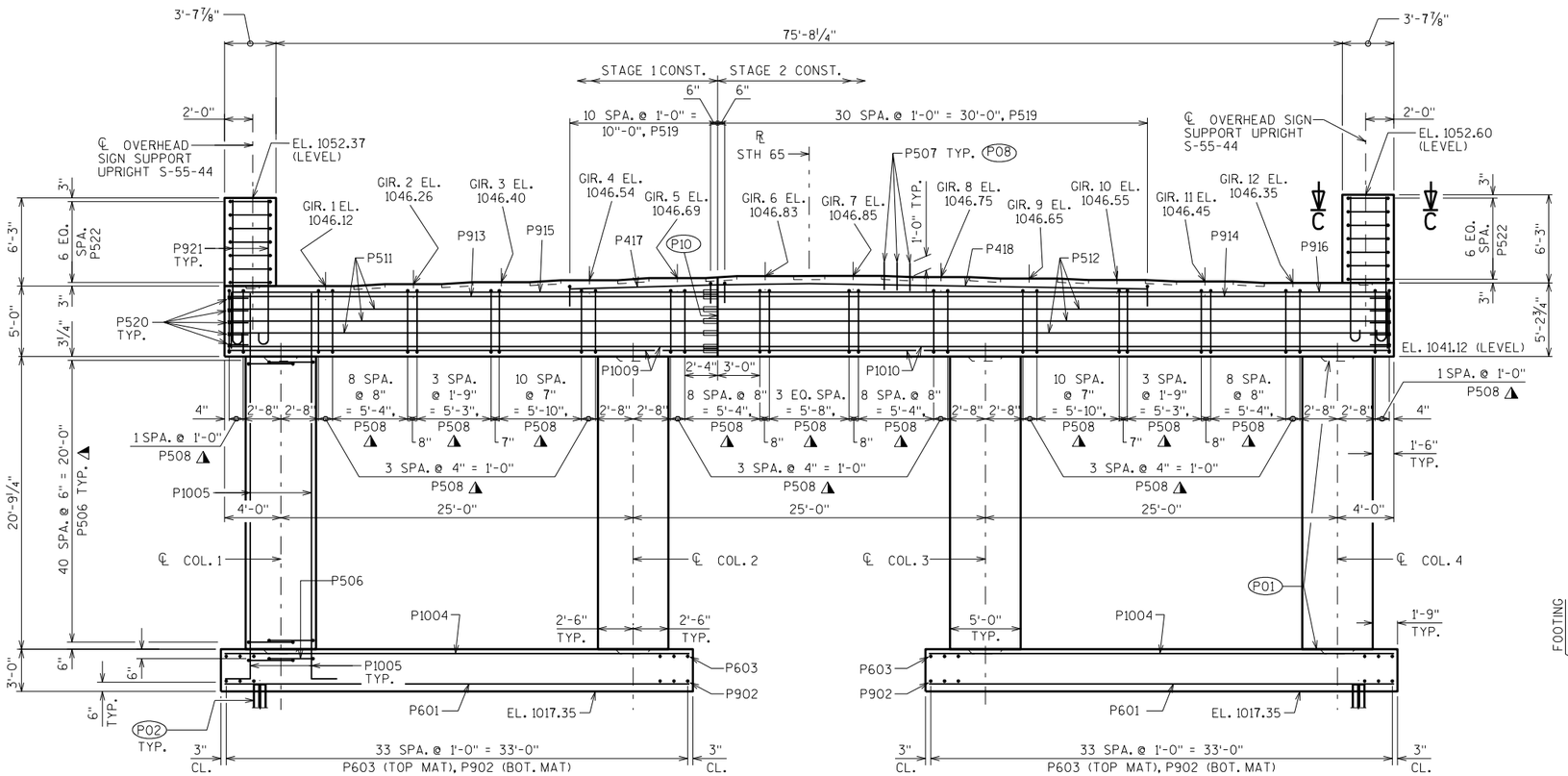
P01 1'-3" X 2'-6" X 4" DEEP CONSTRUCTION JOINT FORMED BY BEVELED KEYWAY.

P02 SUPPORT PIER ON HP 10 X 42 STEEL PILING, ESTIMATED 25'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE.

P08 P507 BARS @ 1'-0" CTRS. BETWEEN BEAM SEATS. MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. (EMBED 1'-0" INTO CONC.)

P09 KEYED CONSTRUCTION JOINT-FORMED BY BEVELED 2 X 6 BETWEEN BEAM SEATS.

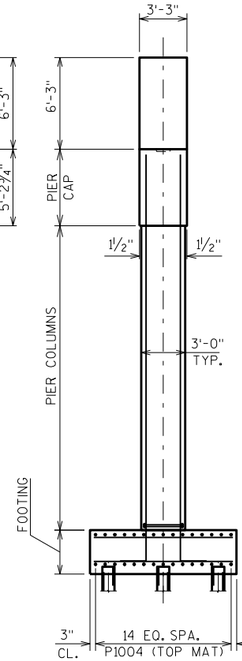
P10 VERT. CONSTRUCTION JOINT: KEYWAY FORMED BY A BEVELED 2" X 6" X 2'-0". ALTERNATE CONST. JOINT IS NOT ALLOWED IN THE PIER CAP.



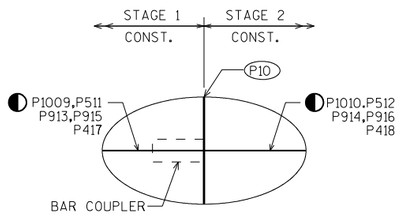
ELEVATION - LOOKING NORTH

◭ = DBL. STIRRUP SPA.

NOTE:
FOR PIER CAP & PILE/FOOTING PLAN, SEE SHEET 10

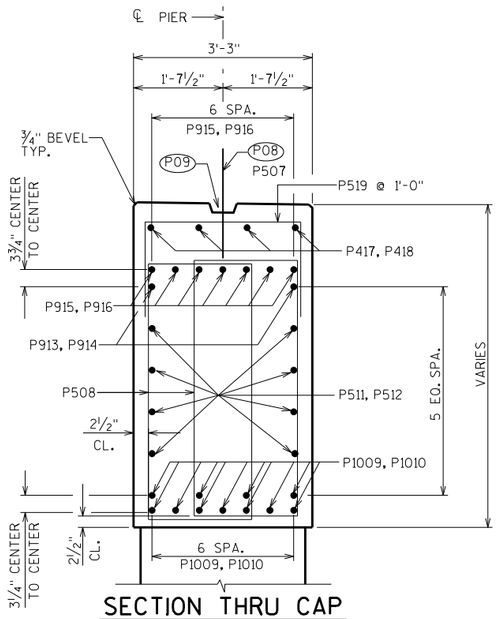


END VIEW

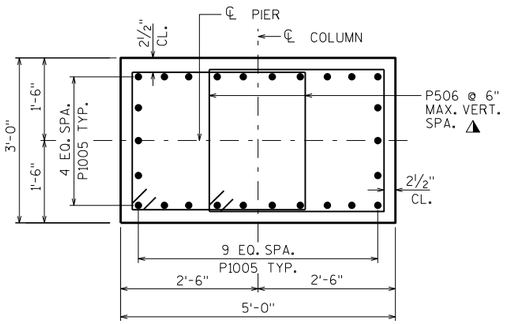


BAR COUPLER DETAIL

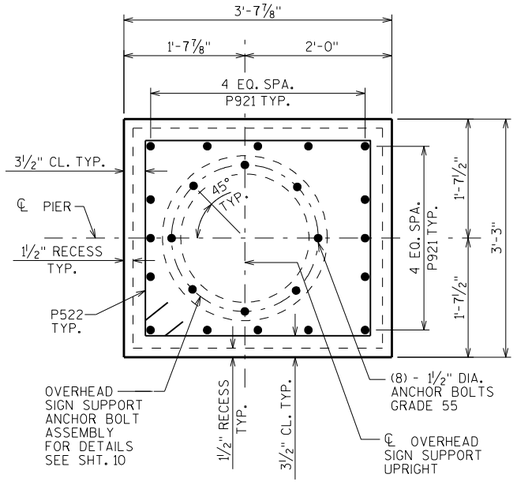
◐ BAR LENGTH HAS BEEN COMPUTED TO ℄ OF VERTICAL CONSTRUCTION JOINT AND SHALL BE MODIFIED TO BAR COUPLER MANUFACTURER RECOMMENDATIONS.



SECTION THRU CAP

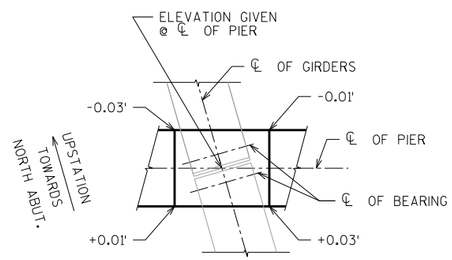


SECTION THRU COLUMN (TYP.)



SECTION C-C

EAST SUPPORT SHOWN
WEST SUPPORT SIMILAR



SLOPED BEAM SEAT DETAIL

(SHOWN AT INTERIOR GIRDER, EXTERIOR GIRDER SIMILAR)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-249

DRAWN BY ARC | PLANS CK'D. CRJ/BLB

PIER | SHEET 9 | 582

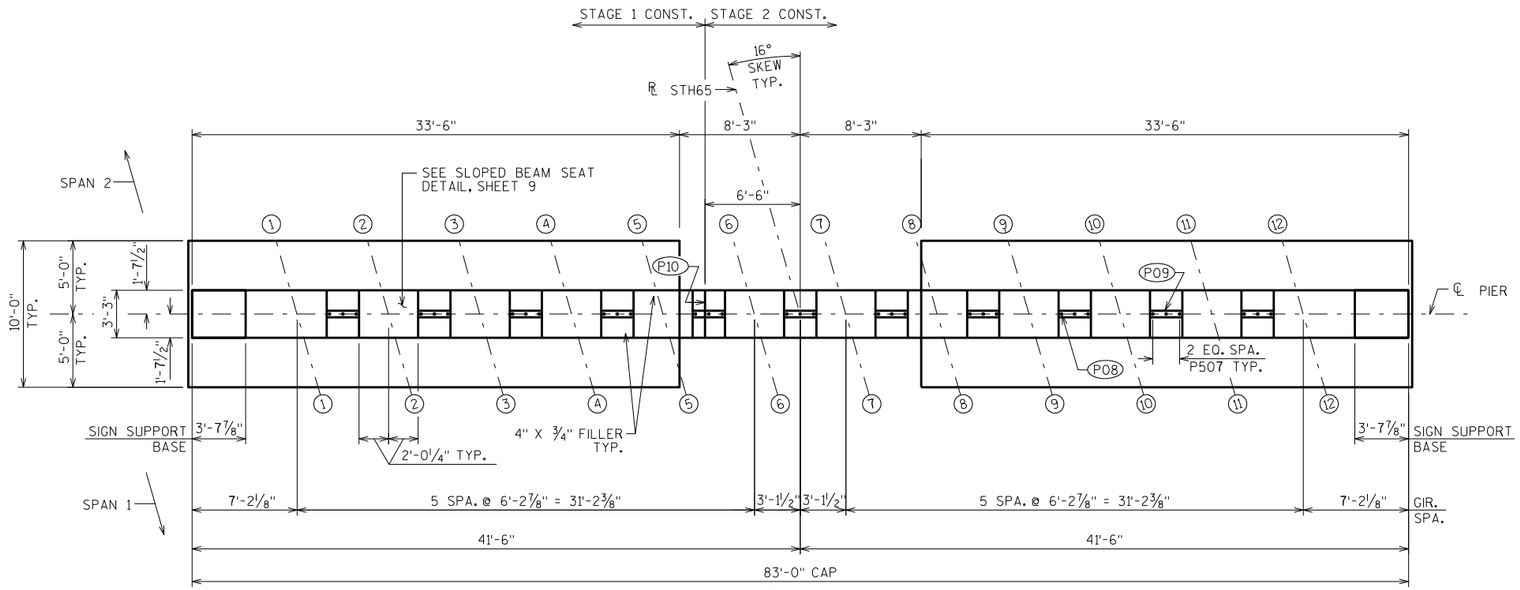
SCALE = 5.0

8

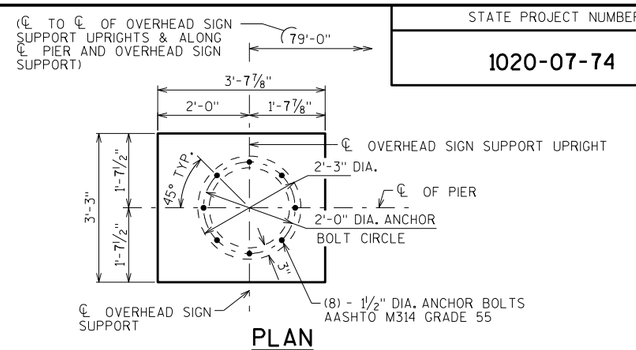
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STATE PROJECT NUMBER

1020-07-74

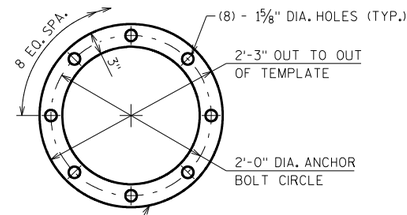


PLAN

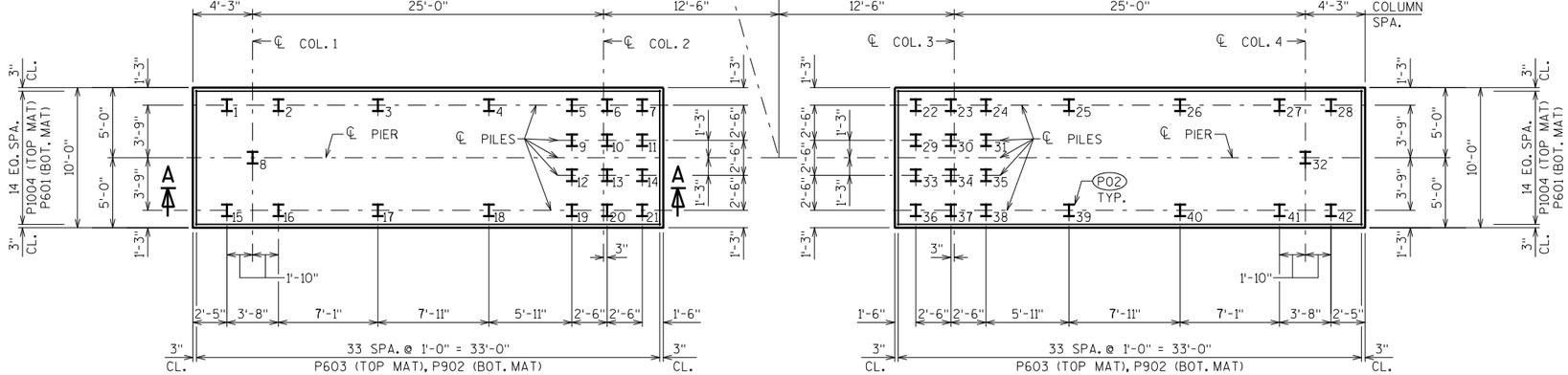


PLAN

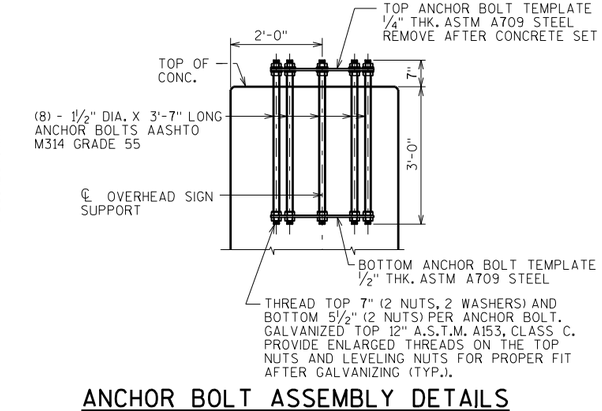
WEST SUPPORT SHOWN, EAST SUPPORT SIMILAR



TOP VIEW OF TOP AND BOTTOM TEMPLATES



PILE/FOOTING PLAN



ANCHOR BOLT ASSEMBLY DETAILS

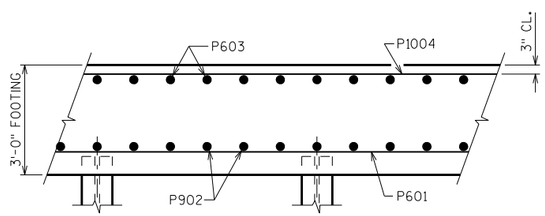
1 ANCHOR BOLT ASSEMBLY SHOWN

(P02) SUPPORT PIER ON HP 10 X 42 STEEL PILING, ESTIMATED 25'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE.

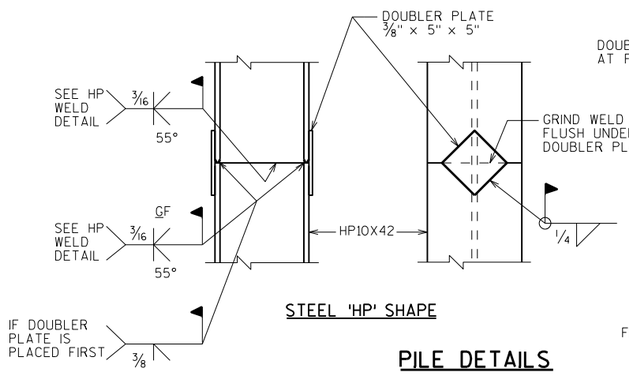
(P08) P507 BARS @ 1'-0" CTRS. BETWEEN BEAM SEATS. MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. (EMBED 1'-0" INTO CONC.)

(P09) KEYED CONSTRUCTION JOINT-FORMED BY BEVELED 2 X 6 BETWEEN BEAM SEATS.

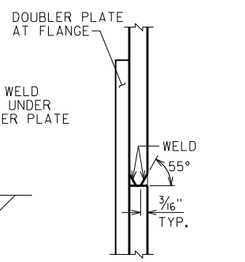
(P10) VERT. CONSTRUCTION JOINT: KEYWAY FORMED BY A BEVELED 2" X 6" X 2'-0". ALTERNATE CONST. JOINT IS NOT ALLOWED IN THE PIER CAP.



SECTION A-A



STEEL 'HP' SHAPE



HP WELD DETAIL

FLANGE SHOWN, WEB SIMILAR

PILE DETAILS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-249

DRAWN BY ARC | PLANS CK'D. CRJ/BLB

PIER DETAILS 1

SHEET 10

583

SCALE = 5.0

8

8

STATE PROJECT NUMBER

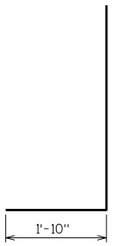
1020-07-74

BILL OF BARS

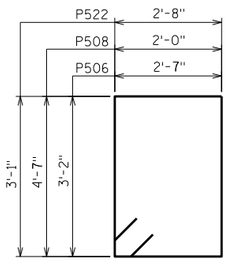
NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
P601		30	33'-2"			FOOTING - HORIZ. (BOT. MAT)
P902		68	9'-8"			FOOTING - HORIZ. (BOT. MAT)
P603		68	9'-8"			FOOTING - HORIZ. (TOP MAT)
P1004		30	33'-2"			FOOTING - HORIZ. (TOP MAT)
P1005	X	104	29'-2"	X		FOOTING/COLUMN - VERT.
P506	X	336	12'-2"	X		COLUMN - STIRRUPS
P507	X	33	2'-0"			CAP - DOWEL BARS
P508	X	184	13'-10"	X		CAP - STIRRUPS
◑ P1009	X	11	34'-7"			CAP - HORIZ. - BOTTOM (STAGE 1)
◑ P1010	X	11	47'-7"			CAP - HORIZ. - BOTTOM (STAGE 2)
◑ P511	X	8	34'-7"			CAP - HORIZ. - SIDES (STAGE 1)
◑ P512	X	8	47'-7"			CAP - HORIZ. - SIDES (STAGE 2)
◑ P913	X	2	34'-7"			CAP - HORIZ. - TOP (STAGE 1)
◑ P914	X	2	47'-7"			CAP - HORIZ. - TOP (STAGE 2)
◑ P915	X	7	36'-1"	X		CAP - HORIZ. - TOP (STAGE 1)
◑ P916	X	7	49'-1"	X		CAP - HORIZ. - TOP (STAGE 2)
◑ P417	X	4	10'-6"			CAP - HORIZ. - TOP (STAGE 1)
◑ P418	X	4	30'-6"			CAP - HORIZ. - TOP (STAGE 2)
P519	X	42	6'-3"	X		CAP - VERT. - TOP
P520	X	10	6'-5"	X		CAP ENDS - HORIZ.
P921	X	32	11'-6"	X		OVERHEAD SIGN SUPPORT - VERT.
P522	X	14	12'-2"	X		OVERHEAD SIGN SUPPORT - STIRRUP

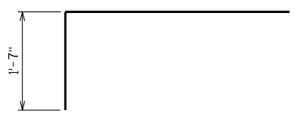
◑ BAR LENGTH HAS BEEN COMPUTED TO ℄ OF VERTICAL CONSTRUCTION JOINT AND SHALL BE MODIFIED TO BAR COUPLER MANUFACTURER RECOMMENDATIONS.



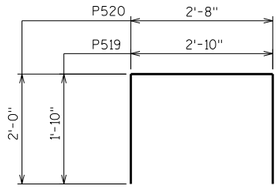
P1005



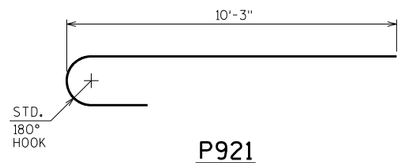
P506, P508, P522



P915, P916



P519, P520



P921

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-249

DRAWN BY ARC | PLANS CK'D: CRJ/BLB

PIER DETAILS 2

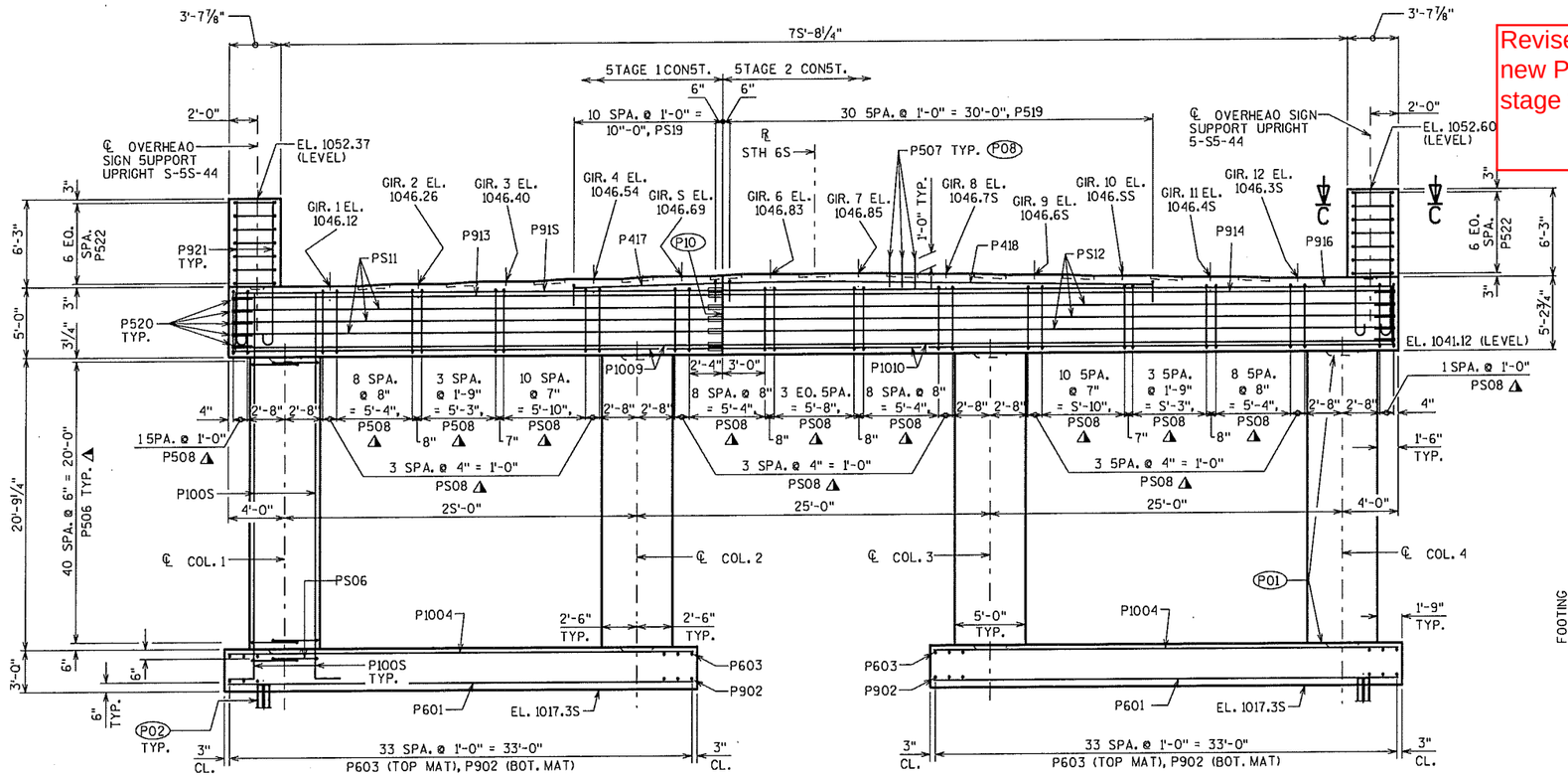
SHEET 11

584

SCALE = 5.0

STATE PROJECT NUMBER
1020-07-74

Revised Pier plan sheets for new Pile configuration for stage 2



ELEVATION - LOOKING NORTH

▲ = OBL. STIRRUP 5PA.

NOTE: FOR PIER CAP & PILE/FOOTING PLAN, SEE SHEET 10

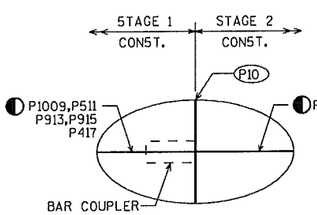
P01 1'-3" X 2'-6" X 4" OEEP CONSTRUCTION JOINT FORMED BY BEVELED KEYWAY.

P02 SUPPORT PIER ON HP 10 X 42 STEEL PILING, ESTIMATED 2S'-0" LONG WITH A REQUIRED ORIVING RESISTANCE OF 180 TONS PER PILE.

P08 PS07 BARS @ 1'-0" CTRS. BETWEEN BEAM SEATS. MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. (EMBED 1'-0" INTO CONC.)

P09 KEYED CONSTRUCTION JOINT-FORMED BY BEVELED 2 X 6 BETWEEN BEAM SEATS.

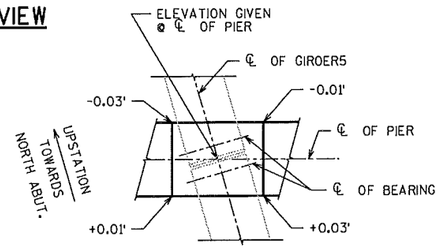
P10 VERT. CONSTRUCTION JOINT: KEYWAY FORMED BY A BEVELED 2" X 6" X 2'-0". ALTERNATE CONST. JOINT IS NOT ALLOWED IN THE PIER CAP.



BAR COUPLER DETAIL

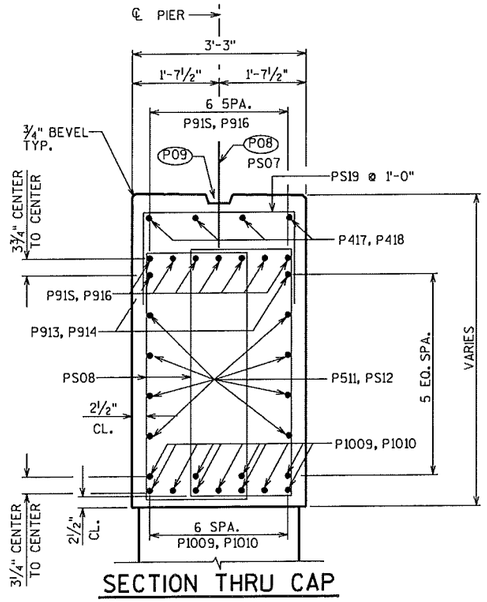
◐ BAR LENGTH HAS BEEN COMPUTED TO ℄ OF VERTICAL CONSTRUCTION JOINT AND SHALL BE MODIFIED TO BAR COUPLER MANUFACTURER RECOMMENDATIONS.

END VIEW

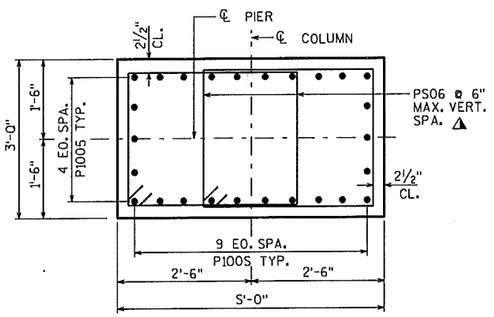


SLOPED BEAM SEAT DETAIL

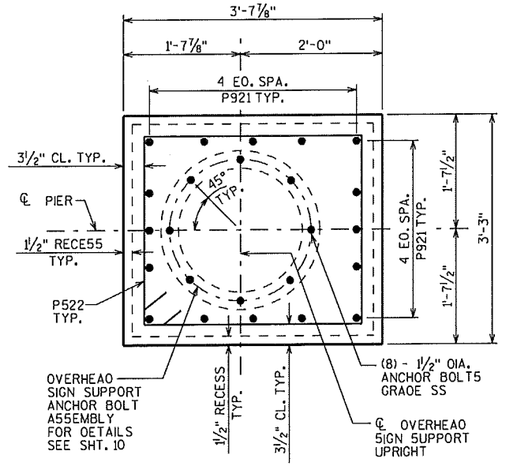
(5HOWN AT INTERIOR GIROER, EXTERIOR GIROER 5IMILAR)



SECTION THRU CAP



SECTION THRU COLUMN (TYP.)



SECTION C-C

EAST SUPPORT SHOWN
WEST SUPPORT SIMILAR

Plan Sheet Accepted By WISDOT BUREAU OF STRUCTURES

NO.	DATE	REVISION	BY
⚠1	11-5-12	MODIFIED FOOTING - 5TAGE 2	ARC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-249

DRAWN BY ARC | PLANS CK'D. JDL

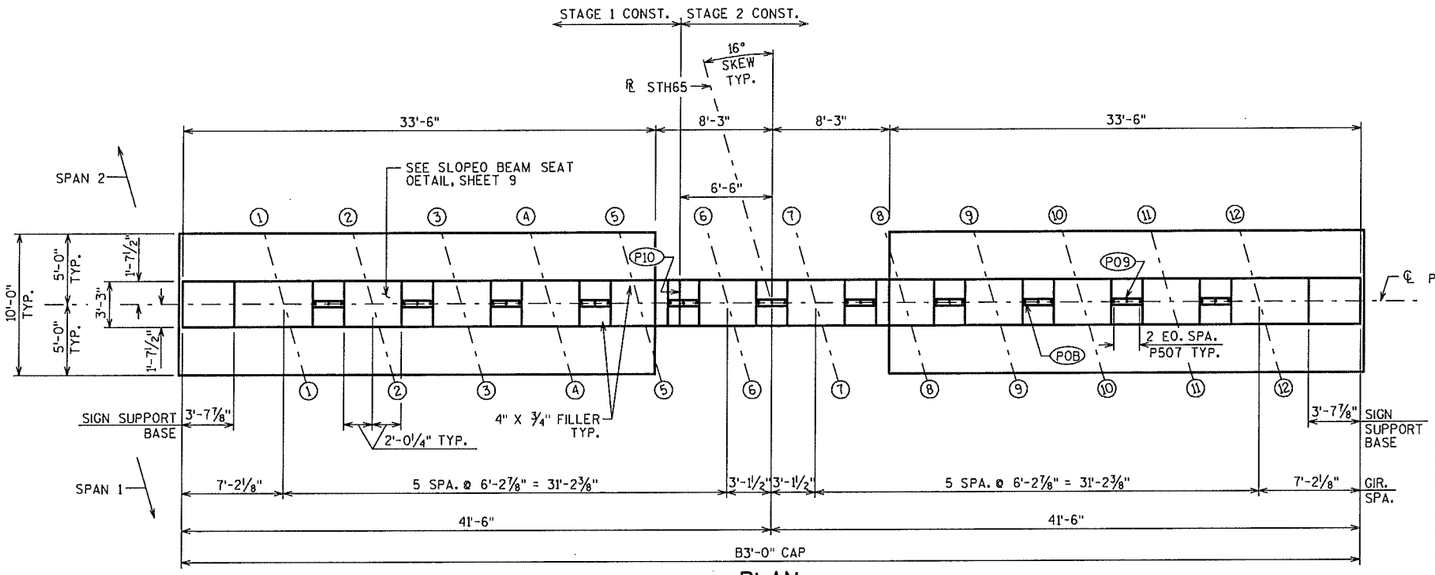
PIER | SHEET 9

8

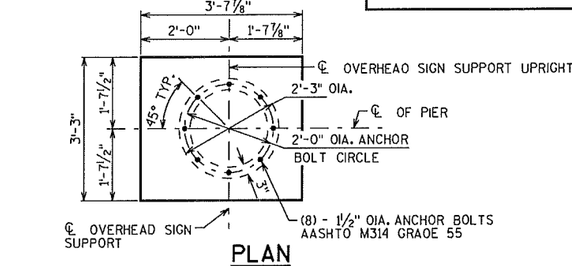
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SCALE = 5.0

STATE PROJECT NUMBER
1020-07-74

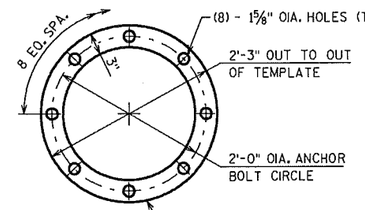


PLAN

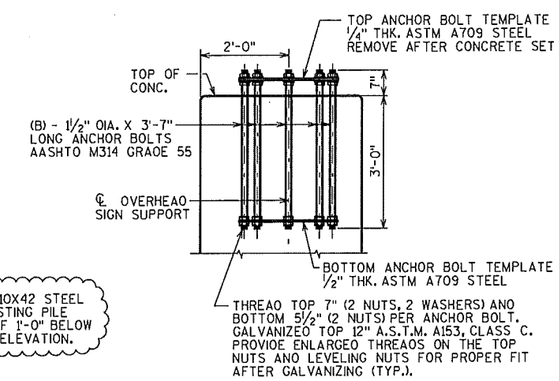


PLAN

WEST SUPPORT SHOWN, EAST SUPPORT SIMILAR

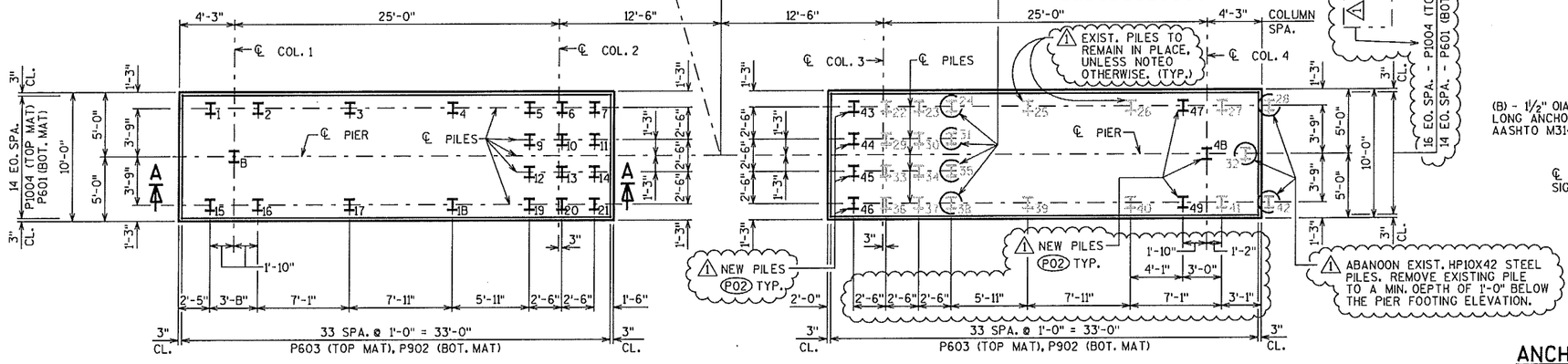


TOP VIEW OF TOP AND BOTTOM TEMPLATES



ANCHOR BOLT ASSEMBLY DETAILS

1 ANCHOR BOLT ASSEMBLY SHOWN



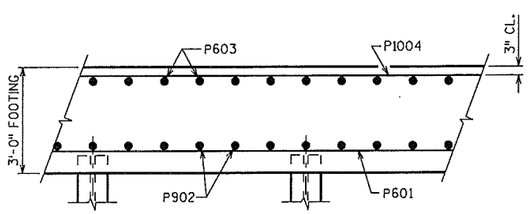
PILE/FOOTING PLAN

(P02) SUPPORT PIER ON HP 10 X 42 STEEL PILING, ESTIMATED 25'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE.

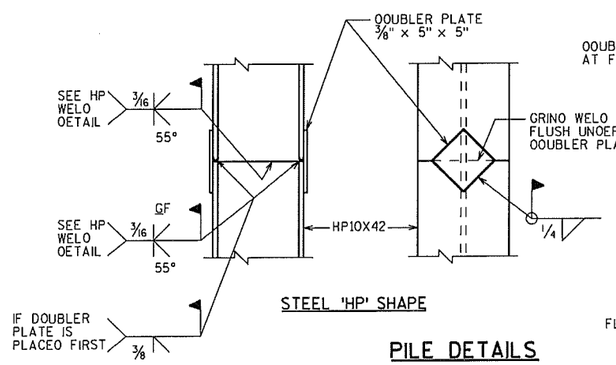
(P08) P507 BARS @ 1'-0" CTRS. BETWEEN BEAM SEATS. MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. (EMBED 1'-0" INTO CONC.)

(P09) KEYED CONSTRUCTION JOINT-FORMED BY BEVELED 2 X 6 BETWEEN BEAM SEATS.

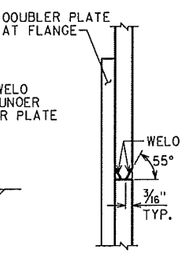
(P10) VERT. CONSTRUCTION JOINT: KEYWAY FORMED BY A BEVELED 2" X 6" X 2'-0". ALTERNATE CONST. JOINT IS NOT ALLOWED IN THE PIER CAP.



SECTION A-A



STEEL 'HP' SHAPE



HP WELD DETAIL

FLANGE SHOWN, WEB SIMILAR

PILE DETAILS

Plan Sheet Accepted By WISDOT
BUREAU OF STRUCTURES

NO.	DATE	REVISION	BY
1	11-5-12	MODIFIED FOOTING - STAGE 2	ARC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-249

DRAWN BY ARC | PLANS CK'D. JDL

PIER DETAILS 1

SHEET 10

SCALE = 5.0

STATE PROJECT NUMBER
1020-07-74

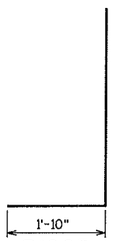
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO OIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

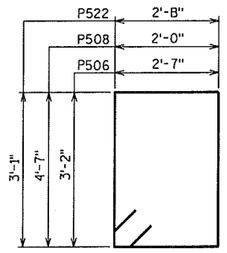
BAR MARK	COAT	NO. REO'O.	LENGTH	BENT	BAR SERIES	LOCATION
P601		30	33'-2"			FOOTING - HORIZ. (BOT. MAT)
P902		68	9'-8"			FOOTING - HORIZ. (BOT. MAT)
P603		68	9'-8"			FOOTING - HORIZ. (TOP MAT)
P1004		32	33'-2"			FOOTING - HORIZ. (TOP MAT)
P1005	X	104	29'-2"	X		FOOTING/COLUMN - VERT.
P506	X	336	12'-2"	X		COLUMN - STIRRUPS
P507	X	33	2'-0"			CAP - OOWEL BARS
P508	X	184	13'-10"	X		CAP - STIRRUPS
◑ P1009	X	11	34'-7"			CAP - HORIZ. - BOTTOM (STAGE 1)
◑ P1010	X	11	47'-7"			CAP - HORIZ. - BOTTOM (STAGE 2)
◑ P511	X	8	34'-7"			CAP - HORIZ. - SIOES (STAGE 1)
◑ P512	X	8	47'-7"			CAP - HORIZ. - SIOES (STAGE 2)
◑ P913	X	2	34'-7"			CAP - HORIZ. - TOP (STAGE 1)
◑ P914	X	2	47'-7"			CAP - HORIZ. - TOP (STAGE 2)
◑ P915	X	7	36'-1"	X		CAP - HORIZ. - TOP (STAGE 1)
◑ P916	X	7	49'-1"	X		CAP - HORIZ. - TOP (STAGE 2)
◑ P417	X	4	10'-6"			CAP - HORIZ. - TOP (STAGE 1)
◑ P418	X	4	30'-6"			CAP - HORIZ. - TOP (STAGE 2)
P519	X	42	6'-3"	X		CAP - VERT. - TOP
P520	X	10	6'-5"	X		CAP ENOS - HORIZ.
P921	X	32	11'-6"	X		OVERHEAO SIGN SUPPORT - VERT.
P522	X	14	12'-2"	X		OVERHEAO SIGN SUPPORT - STIRRUP

⚠1 TOP MAT LONGIT. REINF. REVISEO. (2) AOO'T #10 BARS AOOEO TO ORIG. OESIGN OF STAGE 2 FOOTING.

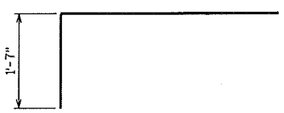
◑ BAR LENGTH HAS BEEN COMPUTEO TO ℄ OF VERTICAL CONSTRUCTION JOINT ANO SHALL BE MOOIFIEO TO BAR COUPLER MANUFACTURER RECOMMENOATIONS.



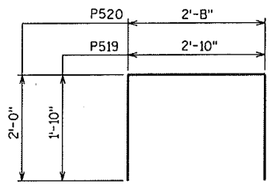
P1005



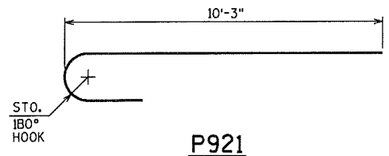
P506, P508, P522



P915, P916



P519, P520



P921

Plan Sheet Accepted By WISDOT BUREAU OF STRUCTURES

NO.	DATE	REVISION	BY
⚠1	11-5-12	MOOIFIEO FOOTING - STAGE 2	ARC

STATE OF WISCONSIN
OEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-249

DRAWN BY ARC | PLANS CK'D. JDL

PIER DETAILS 2 | SHEET 11

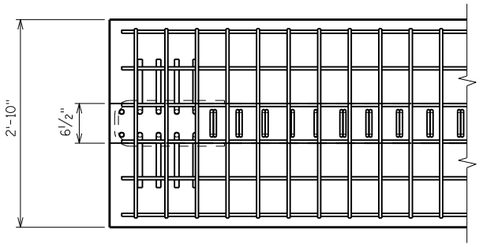
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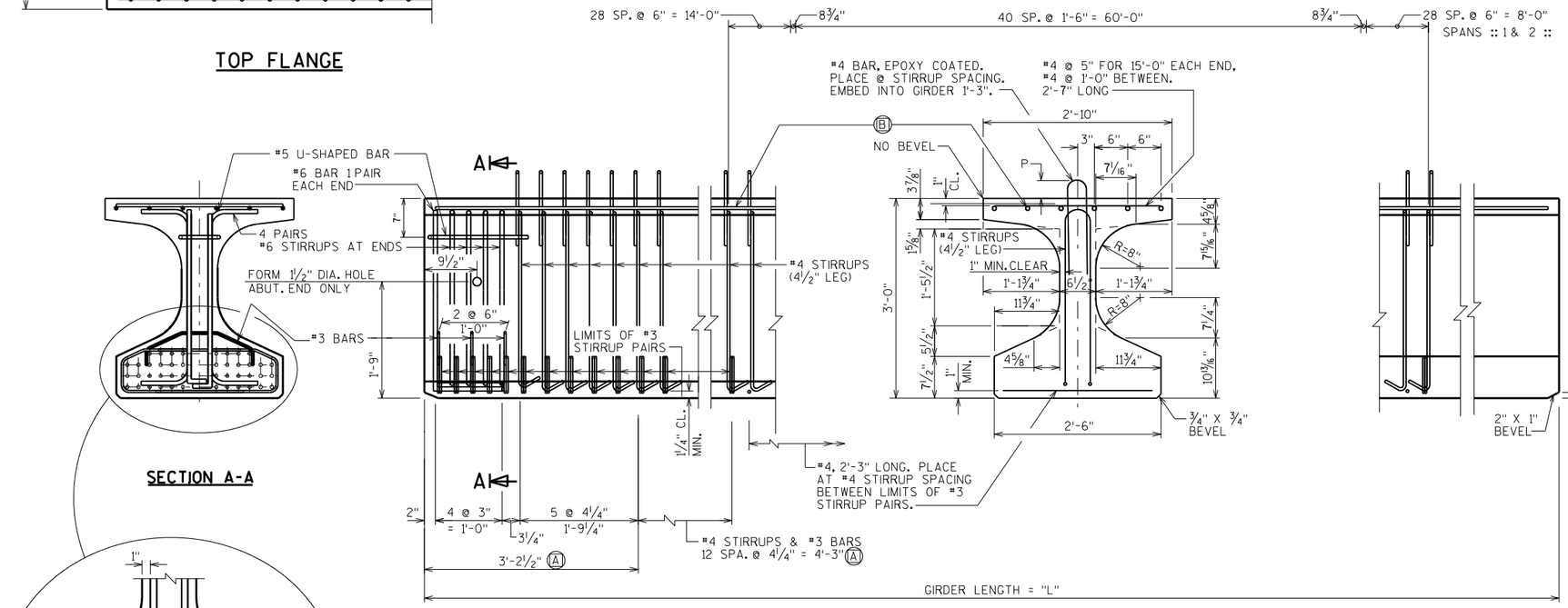
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STATE PROJECT NUMBER

1020-07-74



TOP FLANGE

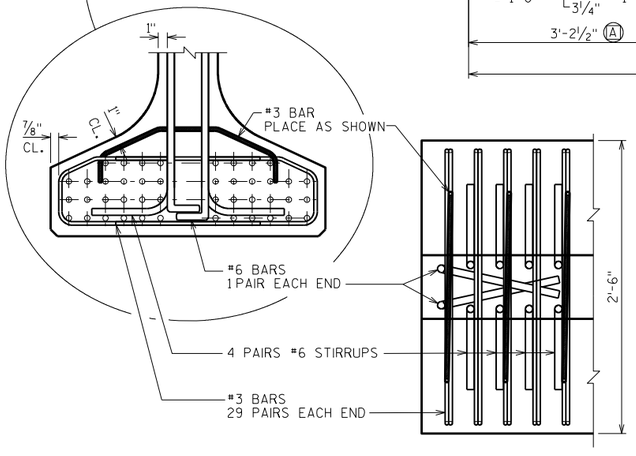


SIDE VIEW & TYP. SECTION IN SPAN

Ⓐ DETAIL TYP. AT EACH END

Ⓑ 6 # BARS, FULL LENGTH, MIN. LAP =

(SPAN 1) 6 #4, 1'-11" MIN. LAP
(SPAN 2) 6 #4, 1'-11" MIN. LAP



BOTTOM FLANGE

GIRDER NOTES

TOP OF GIRDER TO BE ROUGH FLOATED AND BROOMED TRANSVERSELY FOR BONDING TO THE SLAB, EXCEPT THE OUTSIDE 8" OF GIRDER, WHICH SHALL RECEIVE A SMOOTH FINISH. AN APPROVED CONCRETE SEALER SHALL BE APPLIED TO ALL SMOOTH SURFACES INCLUDING THE OUTSIDE 8" OF THE TOP FLANGE.

DO NOT APPLY CONCRETE SEALER TO SURFACES RECEIVING APPLICATION OF CONCRETE STAINING.

THE GIRDERS SHALL BE PROVIDED WITH A SUITABLE LIFTING DEVICE FOR HANDLING AND ERECTING THE GIRDERS.

PRESTRESSING STRANDS SHALL BE 0.6"ϕ - 7 WIRE LOW-RELAXATION STRANDS WITH AN ULTIMATE STRENGTH OF 270,000 psi.

STRANDS SHALL BE FLUSH WITH THE END OF GIRDER. FOR GIRDER ENDS EMBEDDED COMPLETELY IN CONCRETE, ENDS OF STRANDS SHALL BE COATED WITH NON-BITUMINOUS JOINT SEALER. FOR GIRDER ENDS THAT ARE FINALLY EXPOSED, COAT THE GIRDER ENDS, EXPOSED STRAND ENDS AND ALL NON-BONDING SURFACES WITHIN 2 FEET OF THE GIRDER ENDS WITH A NON-PIGMENTED EPOXY CONFORMING TO AASHTO M-235 TYPE III, CLASS B OR C. THE EPOXY SHALL BE APPLIED AT LEAST 3 DAYS AFTER MOIST CURING HAS CEASED AND PRIOR TO APPLICATION OF THE SEALER.

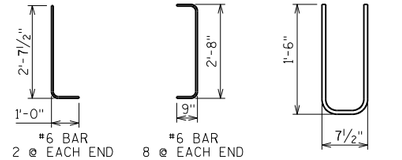
FOR DIAPHRAGM INSERT & CONNECTION DETAILS SEE "STEEL DIAPHRAGM" SHEET.

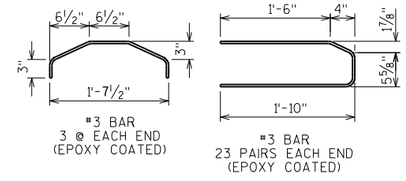
ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN.

SPACING SHOWN FOR #4 STIRRUPS IS FOR GRADE 60 REINFORCEMENT. IF THE FABRICATOR WANTS TO BUILD A BAR STEEL CAGE BY WELDING LONGITUDINAL REINFORCEMENT TO THE #4 STIRRUPS, 1 OPTION IS AVAILABLE:

USE ASTM A706, GRADE 60 REINFORCEMENT AND THE STIRRUP SPACING AS SHOWN ON THE PLANS.

AN ALTERNATE EQUIVALENT OF WELDED WIRE FABRIC (WWF) ASTM A497 MAY BE SUBSTITUTED FOR THE STIRRUP REINFORCEMENT SHOWN, UPON APPROVAL OF THE STRUCTURES DEVELOPMENT CHIEF, (608)266-5161.





✳ MINIMUM CYLINDER STRENGTH OF CONCRETE @ TIME OF TRANSFER OF PRESTRESS FORCE.

GIRDER DATA

SPAN	GIRDER	GIRDER LENGTH "L"	DEAD LOAD DEFL. (IN.) 1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	CONC. STRGTH. f'c (p.s.i.)	"P" 1ST ⅓ OF GIRDER	"P" MID ⅓ OF GIRDER	"P" END ⅓ OF GIRDER	DIA. OF STRAND (IN.)	DRAPED PATTERN TOTAL NO. OF STRANDS	f'ci (P.S.I.)	(IN.) "A"	"B" MIN.	"B" MAX.	"C"	UNDRAPED PATTERN TOTAL NO. OF STRANDS	f'ci (P.S.I.)
1	1-12	104.38	0.9	1.7	2.4	2.8	2.9	2.8	2.4	1.7	0.9	8000	7"	7"	7"	0.60	36	6470	31.0	11.5	14.5	5.0	----------	------
2	1-12	104.38	0.9	1.7	2.4	2.8	2.9	2.8	2.4	1.7	0.9	8000	7"	7"	7"	0.60	36	6470	31.0	11.5	14.5	5.0	----------	------

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-249

DRAWN BY ARC | PLANS CK'D. CRI/BLB

36W" PRESTRESSED GIRDER DETAILS 1

SHEET 12

585

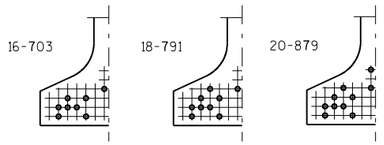
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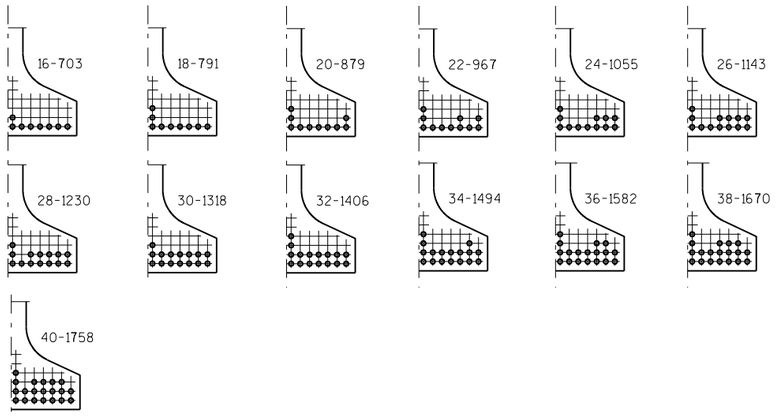
STATE PROJECT NUMBER

1020-07-74



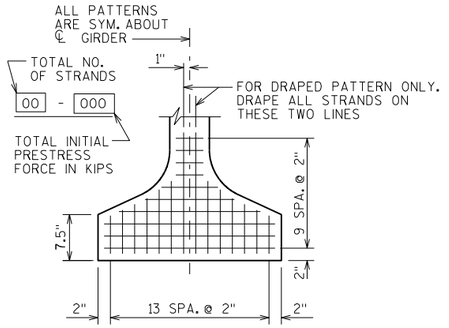
STANDARD ARRANGEMENTS TO RAISE CENTER OF GRAVITY TO AVOID DRAPING OF STRANDS

0.6"Φ STRANDS

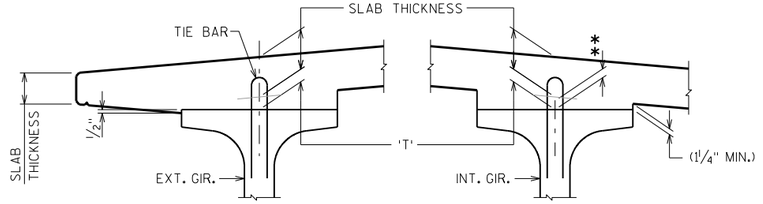


ARRANGEMENT AT ℄ SPAN - FOR GIRDERS WITH DRAPED STRANDS

0.6"Φ STRANDS



TYP. STRAND PATTERN



SLAB HAUNCH DETAIL

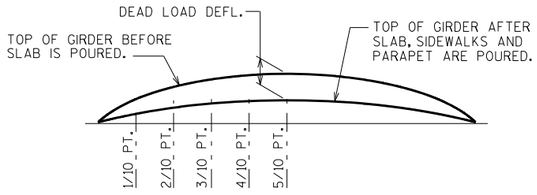
IF 1¼" MINIMUM HAUNCH HEIGHT AT EDGE OF GIRDER CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR. THE PLAN SLAB THICKNESS SHALL BE HELD. NOTIFY THE STRUCTURES SECTION IF THE GRADE LINE IS RAISED FROM THE PLAN PROFILE BY MORE THAN ½" OR,

** IF 3" MINIMUM DECK EMBEDMENT OF TIE BAR CANNOT BE OBTAINED.

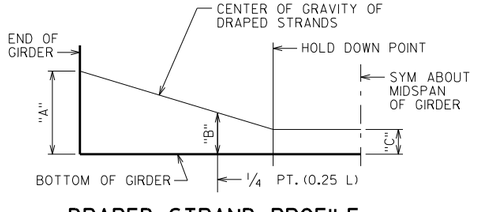
TO DETERMINE 'T', ELEV. OF TOP OF GIR'S. AT ℄ OF SUBSTRUCTURE UNITS & AT 1/10 POINTS OF EACH SPAN SHALL BE TAKEN. THEN FOLLOW THIS PROCESS:

TOP OF DECK ELEV. AT FINAL GRADE
- TOP OF GIRDER ELEVATION
+ DEAD LOAD DEFLECTION
- SLAB THICKNESS
= HAUNCH HEIGHT 'T'

NOTE: AN AVERAGE HAUNCH ('T') OF 2½" WAS USED IN THE QUANTITY "CONCRETE MASONRY BRIDGES".



DEAD LOAD DEFLECTION DIAGRAM



DRAPED STRAND PROFILE

THE THEORETICAL INITIAL CAMBER VALUE AT THE TIME OF STRAND RELEASE AT MIDSPAN

SPAN	CAMBER (IN.)
1	3.20
2	3.20

THESE VALUES ARE NOT TO BE USED IN DETERMINING 'T'. USE ACTUAL GIRDER SHOTS.
THESE VALUES ARE FOR INFORMATIONAL PURPOSES ONLY.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-249

DRAWN BY ARC | PLANS CK'D: CRJ/BLB

36W" PRESTRESSED GIRDER DETAILS 2

SHEET 13

586

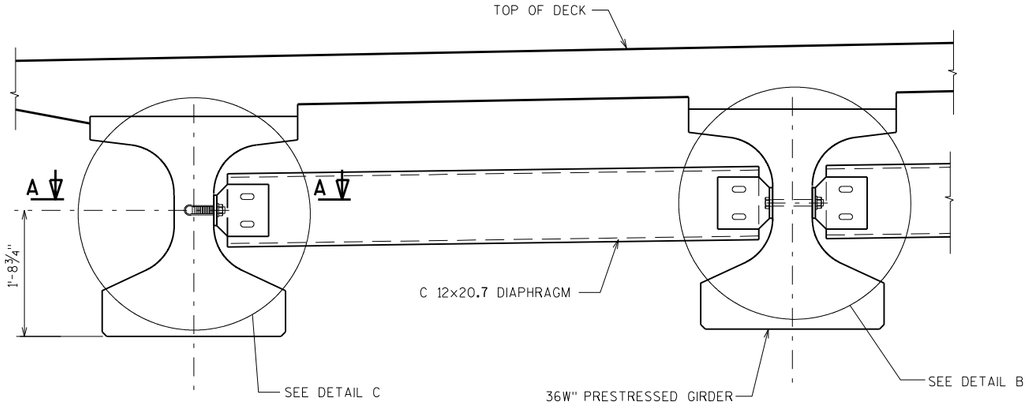
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STATE PROJECT NUMBER

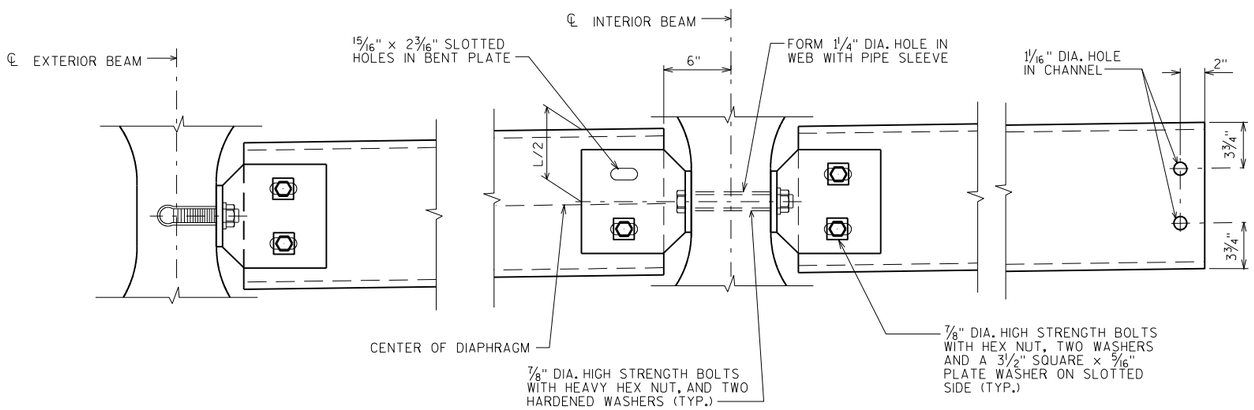
1020-07-74



EXTERIOR GIRDER

INTERIOR GIRDER

PART TRANSVERSE SECTION AT DIAPHRAGM



DETAIL C

DETAIL B

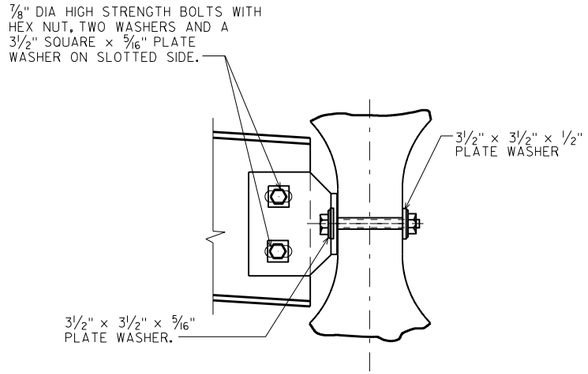
NOTES

ALL DIAPHRAGM MATERIAL NOT EMBEDDED IN THE CONCRETE GIRDER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STEEL DIAPHRAGMS B-55-249", EACH.

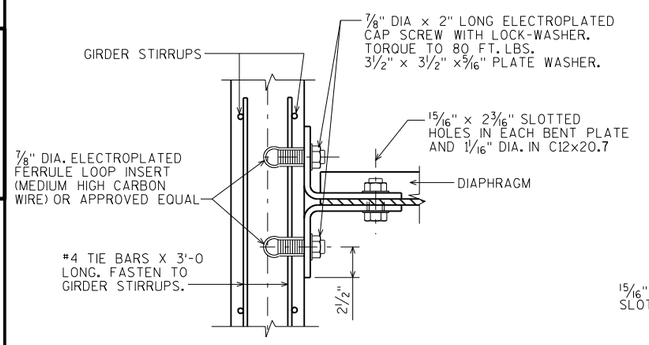
EACH DIAPHRAGM BETWEEN GIRDERS SHALL CONSTITUTE ONE UNIT.

ALL DIAPHRAGM STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 36. ALL BOLTS, NUTS AND WASHERS SHALL BE ASTM A325 TYPE 1.

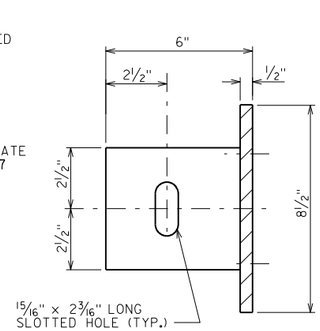
ALL DIAPHRAGM STRUCTURAL STEEL SHOWN SHALL BE HOT-DIPPED GALVANIZED. ALL BOLTS, NUTS AND WASHERS SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C. GALVANIZED NUTS SHALL BE TAPPED OVERSIZE IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A563 AND SHALL MEET THE REQUIREMENTS OF SUPPLEMENTARY REQUIREMENT S1 OF ASTM A563, LUBRICANT AND TEST FOR COATED NUTS.



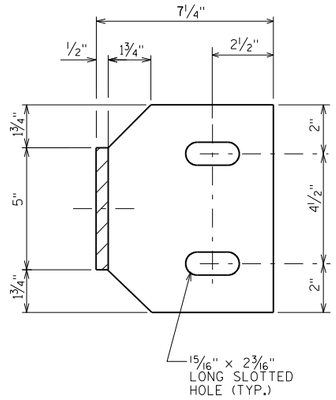
SECTION AT INTERIOR GIRDERS THRU DIAPHRAGM FOR SKEW ANGLES > 10°



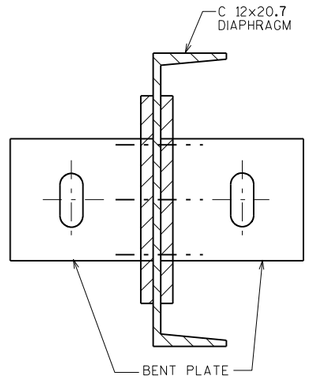
SECTION A-A
(FOR EXTERIOR ATTACHMENT)



BEAM FACE



DIAPHRAGM FACE



ATTACHMENT TO CHANNEL

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-249

DRAWN BY ARC | PLANS CK'D. CRJ/BLB

STEEL DIAPHRAGM

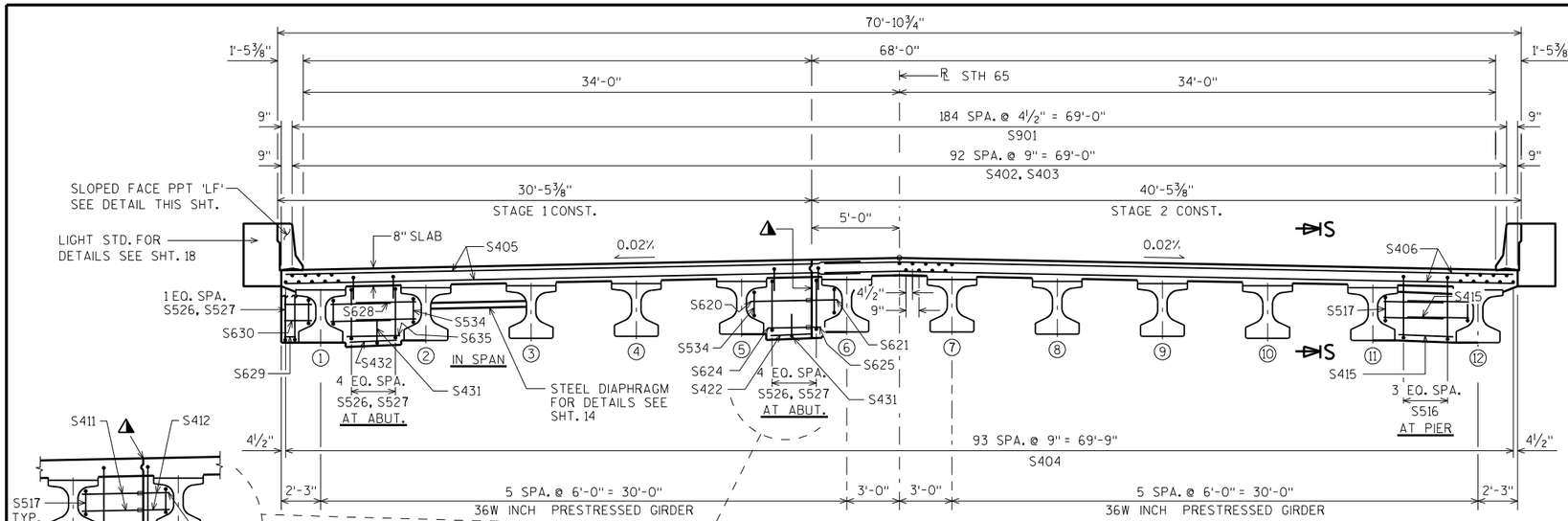
SHEET 14

587

SCALE = 1

STATE PROJECT NUMBER

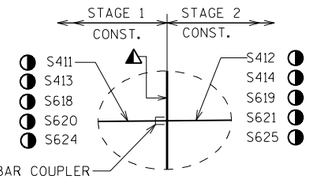
1020-07-74



CROSS SECTION THRU ROADWAY

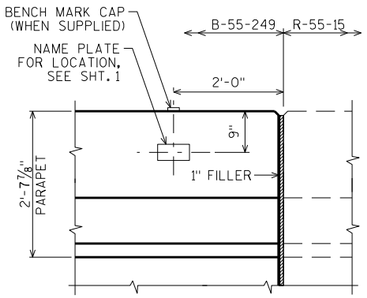
(LOOKING NORTH)

PLAN



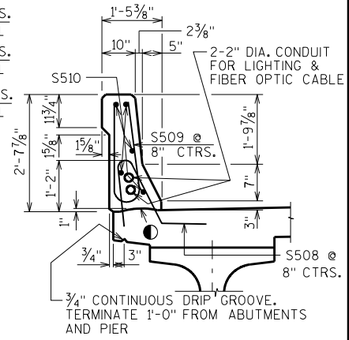
BAR COUPLER DETAILS

◑ BAR LENGTH HAS BEEN COMPUTED TO ℄ OF LONGITUDINGAL CONSTRUCTION JOINT AND SHALL BE MODIFIED TO BAR COUPLER MANUFACTURER RECOMMENDATIONS.



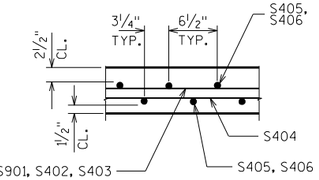
NAME PLATE LOCATION

S.E. CORNER B-55-249



SECTION THRU PARAPET 'LF' ON BRIDGE

◐ CONST. JOINT - STRIKE OFF AS SHOWN



SECTION S-S

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-249

DRAWN BY ARC | PLANS CK'D. CRJ/BLB

SUPERSTRUCTURE

SHEET 15

588

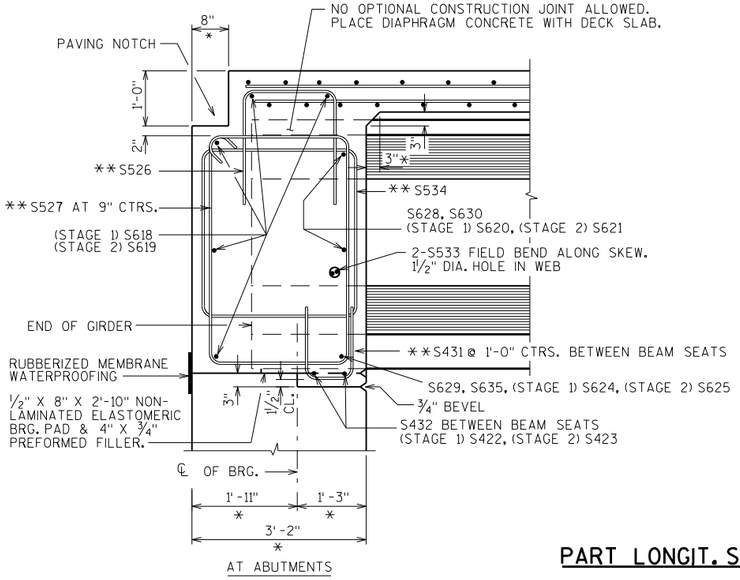
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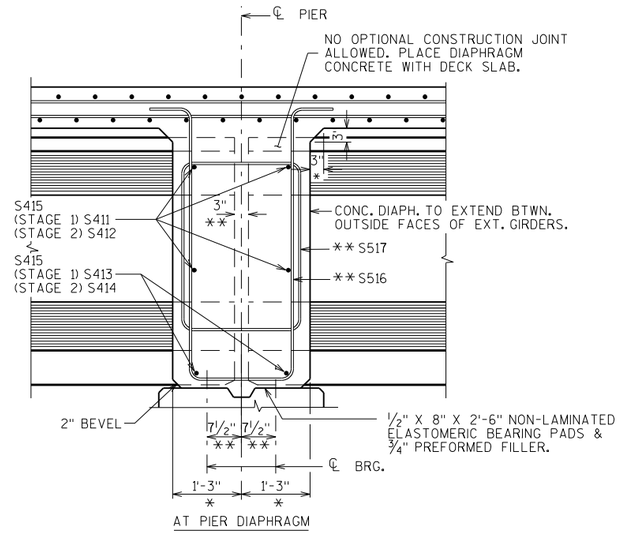
8

STATE PROJECT NUMBER

1020-07-74



AT ABUTMENTS



AT PIER DIAPHRAGM

PART LONGIT. SECTION

* DIMENSION IS TAKEN NORMAL TO ℄ SUBSTRUCTURE UNITS.

** DIMENSION IS TAKEN PARALLEL TO ℄ GIRDER.

BEARING PAD DETAIL

TOP OF DECK ELEVATIONS

	S. ABUT.	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	PIER 1	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	N. ABUT.
LT E.O.D.	1050.96	1050.90	1050.83	1050.75	1050.67	1050.58	1050.48	1050.37	1050.25	1050.13	1050.00	1049.86	1049.72	1049.57	1049.41	1049.24	1049.06	1048.89	1048.71	1048.53	1048.35
GIR. 1	1050.99	1050.92	1050.85	1050.78	1050.69	1050.60	1050.50	1050.40	1050.28	1050.16	1050.03	1049.89	1049.75	1049.60	1049.44	1049.27	1049.09	1048.92	1048.74	1048.56	1048.38
GIR. 2	1051.12	1051.06	1050.99	1050.91	1050.83	1050.74	1050.64	1050.53	1050.42	1050.30	1050.17	1050.04	1049.89	1049.74	1049.58	1049.42	1049.24	1049.07	1048.89	1048.71	1048.53
GIR. 3	1051.24	1051.19	1051.12	1051.04	1050.96	1050.87	1050.78	1050.67	1050.56	1050.44	1050.31	1050.18	1050.04	1049.89	1049.73	1049.57	1049.39	1049.22	1049.04	1048.86	1048.68
GIR. 4	1051.37	1051.32	1051.25	1051.18	1051.10	1051.01	1050.91	1050.81	1050.70	1050.58	1050.45	1050.32	1050.18	1050.03	1049.88	1049.71	1049.54	1049.36	1049.19	1049.01	1048.83
GIR. 5	1051.50	1051.45	1051.38	1051.31	1051.23	1051.14	1051.05	1050.95	1050.84	1050.72	1050.60	1050.46	1050.32	1050.18	1050.02	1049.86	1049.69	1049.51	1049.34	1049.16	1048.98
CONST. JT.	1051.59	1051.53	1051.47	1051.40	1051.32	1051.23	1051.14	1051.04	1050.93	1050.81	1050.69	1050.56	1050.42	1050.27	1050.12	1049.96	1049.79	1049.61	1049.44	1049.26	1049.08
GIR. 6	1051.63	1051.58	1051.51	1051.44	1051.36	1051.28	1051.19	1051.08	1050.98	1050.86	1050.74	1050.61	1050.47	1050.32	1050.17	1050.01	1049.84	1049.66	1049.49	1049.31	1049.13
GIR. 7	1051.64	1051.59	1051.52	1051.45	1051.38	1051.29	1051.20	1051.10	1050.99	1050.88	1050.76	1050.63	1050.49	1050.35	1050.19	1050.04	1049.87	1049.69	1049.52	1049.34	1049.16
GIR. 8	1051.53	1051.48	1051.41	1051.35	1051.27	1051.19	1051.10	1051.00	1050.89	1050.78	1050.66	1050.53	1050.39	1050.25	1050.10	1049.94	1049.78	1049.60	1049.42	1049.25	1049.07
GIR. 9	1051.42	1051.36	1051.31	1051.24	1051.16	1051.08	1050.99	1050.90	1050.79	1050.68	1050.56	1050.43	1050.30	1050.16	1050.01	1049.85	1049.68	1049.51	1049.33	1049.16	1048.98
GIR. 10	1051.30	1051.25	1051.20	1051.13	1051.06	1050.98	1050.89	1050.79	1050.69	1050.58	1050.46	1050.33	1050.20	1050.06	1049.91	1049.76	1049.59	1049.42	1049.24	1049.07	1048.89
GIR. 11	1051.19	1051.14	1051.09	1051.02	1050.95	1050.87	1050.78	1050.69	1050.59	1050.48	1050.36	1050.23	1050.10	1049.96	1049.82	1049.66	1049.50	1049.33	1049.15	1048.98	1048.80
GIR. 12	1051.08	1051.03	1050.98	1050.91	1050.84	1050.76	1050.68	1050.58	1050.48	1050.38	1050.26	1050.14	1050.01	1049.87	1049.72	1049.57	1049.41	1049.24	1049.06	1048.88	1048.71
RT E.O.D.	1051.06	1051.01	1050.96	1050.90	1050.83	1050.75	1050.66	1050.57	1050.47	1050.36	1050.25	1050.12	1049.99	1049.86	1049.71	1049.56	1049.40	1049.23	1049.05	1048.87	1048.70

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
S901	X	185	53'-8"			LONGITUDINAL CONTINUITY
S402	X	186	38'-0"			LONGITUDINAL TOP
S403	X	186	43'-8"			LONGITUDINAL TOP
S404	X	658	31'-6"			LONGITUDINAL BOTTOM
S405	X	777	33'-6"			TRANSVERSE - STAGE 1 - TOP & BTM.
S406	X	777	40'-8"			TRANSVERSE - STAGE 2 - TOP & BTM.
S407	X	778	3'-9"	X		TRANSVERSE - DECK EDGE
S508	X	640	4'-2"	X		PARAPET 'LF' - VERT.
S509	X	640	4'-10"	X		PARAPET 'LF' - VERT.
S510	X	70	32'-0"			PARAPET 'LF' - HORIZ.
◑ S411	X	4	3'-6"			PIER DIAPHRAGM - HORIZ. - STAGE 1
◑ S412	X	4	1'-6"			PIER DIAPHRAGM - HORIZ. - STAGE 2
◑ S413	X	2	2'-7"			PIER DIAPHRAGM - HORIZ. - STAGE 1
◑ S414	X	2	0'-9"			PIER DIAPHRAGM - HORIZ. - STAGE 2
S415	X	100	3'-5"			PIER DIAPHRAGM - HORIZ.
S516	X	44	10'-0"	X		PIER DIAPHRAGM - VERT.
S517	X	22	8'-0"	X		PIER DIAPHRAGM - VERT.
◑ S618	X	10	30'-5"			ABUT. DIAPHRAGM - HORIZ. - STAGE 1
◑ S619	X	10	42'-6"			ABUT. DIAPHRAGM - HORIZ. - STAGE 2
◑ S620	X	4	3'-6"			ABUT. DIAPHRAGM - HORIZ. - STAGE 1
◑ S621	X	4	1'-6"			ABUT. DIAPHRAGM - HORIZ. - STAGE 2
S422	X	4	2'-0"			ABUT. DIAPHRAGM - HORIZ. - STAGE 1
S423		NOT	USED			
◑ S624	X	2	2'-7"			ABUT. DIAPHRAGM - HORIZ. - STAGE 1
◑ S625	X	2	0'-9"			ABUT. DIAPHRAGM - HORIZ. - STAGE 2
S526	X	118	5'-9"	X		ABUT. DIAPHRAGM - VERT.
S527	X	118	11'-3"	X		ABUT. DIAPHRAGM
S628	X	80	3'-8"			ABUT. DIAPHRAGM - HORIZ.
S629	X	4	0'-9"			ABUT. DIAPHRAGM - HORIZ.
S630	X	8	1'-8"			ABUT. DIAPHRAGM - HORIZ.
S431	X	88	3'-3"	X		ABUT. DIAPHRAGM - HORIZ.
S432	X	40	2'-2"			ABUT. DIAPHRAGM - HORIZ.
S533	X	48	6'-0"			ABUT. DIAPHRAGM - HORIZ.
S534	X	48	9'-2"	X		ABUT. DIAPHRAGM - VERT.
S635	X	20	3'-3"			ABUT. DIAPHRAGM - HORIZ.
S436	X	10	4'-11"	X		ABUT. DIAPHRAGM ENDS - HORIZ.
S437	X	12	4'-7"	X		ABUT. DIAPHRAGM ENDS - HORIZ.
S438	X	20	3'-6"			ABUT. DIAPHRAGM ENDS - VERT.
S439	X	10	3'-8"	X		ABUT. DIAPHRAGM ENDS - HORIZ.
S440	X	4	4'-7"	X		ABUT. DIAPHRAGM ENDS - HORIZ.
S541	X	24	7'-8"	X		DECK TRANSV. @ LIGHT STD.
S542	X	10	6'-0"	X		PARAPET VERT. @ LIGHT STD.
S543	X	10	7'-0"	X		PARAPET VERT. @ LIGHT STD.
S644	X	14	10'-0"	X		PARAPET HORIZ. @ LIGHT STD.
S545	X	24	7'-1"			DECK TRANSV. @ LIGHT STD.
S546	X	4	3'-2"	X		PARAPET VERT. @ LIGHT STD.
S547	X	4	3'-5"	X		PARAPET VERT. @ LIGHT STD.
S448	X	4	1'-7"			ABUT. DIAPHRAGM ENDS - VERT.

◑ BAR LENGTH HAS BEEN COMPUTED TO ℄ OF LONGITUDINAL CONSTRUCTION JOINT AND SHALL BE MODIFIED TO BAR COUPLER MANUFACTURER RECOMMENDATIONS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-249

DRAWN BY ARC | PLANS CK'D. CRJ/BLB

SUPERSTRUCTURE DETAILS 1

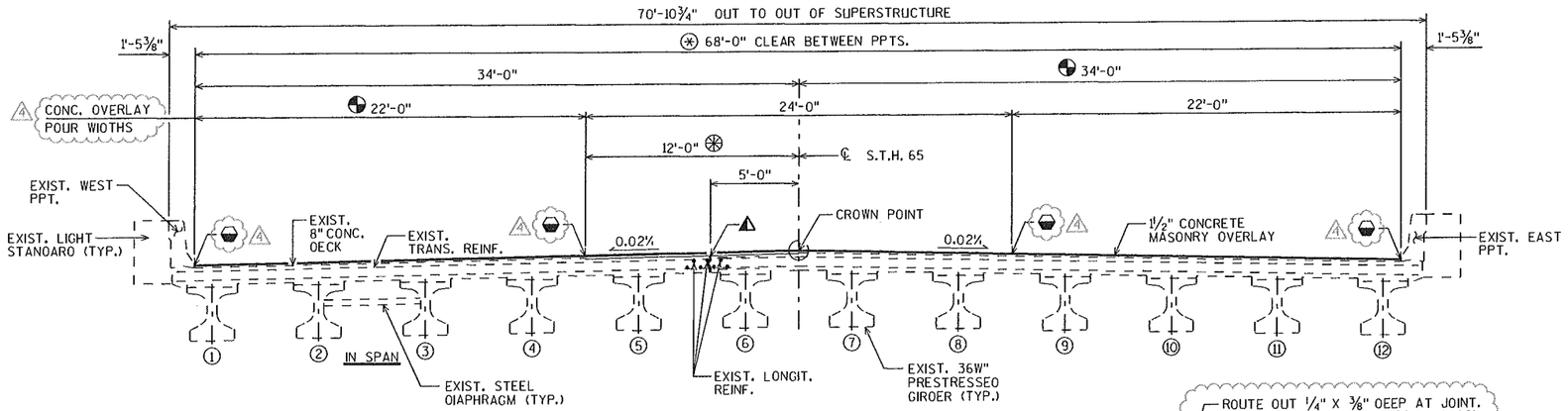
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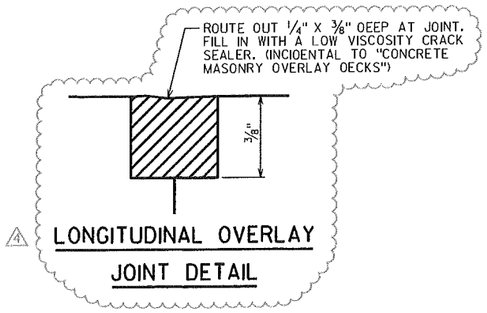
STATE PROJECT NUMBER

1020-07-74



CROSS SECTION THRU ROADWAY

(LOOKING NORTH)



LONGITUDINAL OVERLAY JOINT DETAIL

GENERAL NOTES

DRAWING SHALL NOT BE SCALED.

CONTACT THE BUREAU OF STRUCTURES BEFORE PLACEMENT OF OVERLAY IF THE AVERAGE THICKNESS OF THE NEW OVERLAY WILL EXCEED THE AVERAGE OVERLAY SHOWN ON THE PLANS BY MORE THAN ½".

ADJUST APPROACH SLAB PROFILE TO MATCH EXISTING ROADWAY & NEW TOP OF DECK ELEVATION, AFTER PLACEMENT OF CONCRETE AND POLYMER OVERLAYS.

DESIGN DATA

ULTIMATE DESIGN STRESSES:

CONCRETE MASONRY — f'c = 4,000 P.S.I.

LEGEND

(#) DENOTES EXIST. GIRDER NUMBER

☒ PREPARATION DECKS TYPE 2 REQUIRED AT LOCATIONS OF DAMAGED TRANSVERSE AND LONGITUDINAL REBAR. EXPOSE A MINIMUM LAP LENGTH OF 1'-10" OF UNDAMAGED REBAR. SPLICE DAMAGED REBAR WITH AN EPOXY COATED NO. 4 BAR. LENGTH OF SPLICE BAR SHALL BE DETERMINED AFTER CONCRETE REMOVAL.

⊛ LIMITS OF EXISTING MILLED DECK AREA. PREPARATION DECKS TYPE 1 REQUIRED WHERE REBAR'S EPOXY COATING IS DAMAGED. APPLY AN EPOXY COATING MATERIAL TO ALL DAMAGED REBAR EPOXY COATING, TO THE SATISFACTION OF THE ENGINEER.

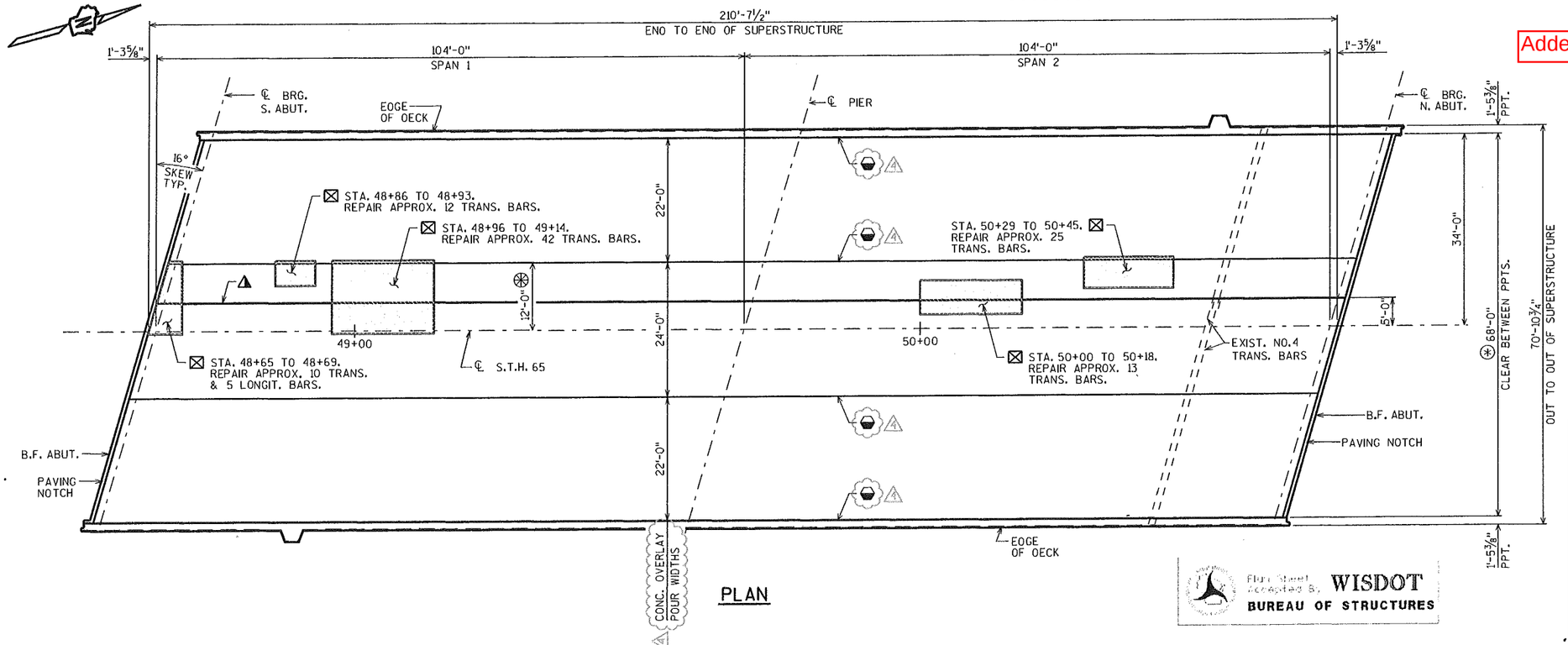
△ EXIST. LONGIT. CONST. JOINT

⊛ CONCRETE MASONRY OVERLAY (1½" THICK) & POLYMER OVERLAY SHALL BE APPLIED TO ENTIRE BRIDGE DECK AREA.

◓ SAND BLAST CLEAN DECK SURFACE PRIOR TO THE CONCRETE OVERLAY.

4 ◓ ROUTE OUT ¼" X ⅜" DEEP AT JOINT. SEAL JOINT WITH A LOW VISCOSITY CRACK SEALER. SEE "LONGITUDINAL OVERLAY JOINT DETAIL," THIS SHEET.

Added overlay



PLAN

Flint Steel Accepted B. WISDOT
BUREAU OF STRUCTURES

LIST OF DRAWINGS

22. CONSTRUCTION REPAIR PLAN 2

STRUCTURE DESIGN CONTACTS:

ALEXANDER CRABTREE (608) 266-3686

LAURA SHADEWALD (608) 267-9592

NO.	DATE	REVISION	BY
4	8-2013	REV #4 - ADDED CONC. OVERLAY POUR WIDTHS & JOINT DETAIL	ARC
3	8-2013	REV #3 - ADDED SHEET 22	ARC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-249

DRAWN BY ARC | PLANS CK'D. BLB

CONSTRUCTION REPAIR PLAN 2

SHEET 22

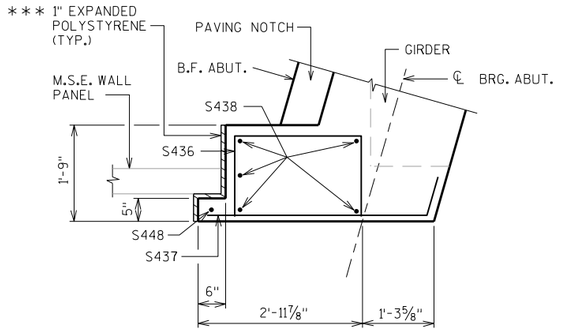
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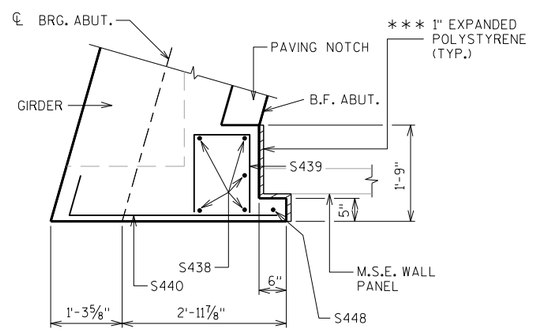
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8

STATE PROJECT NUMBER

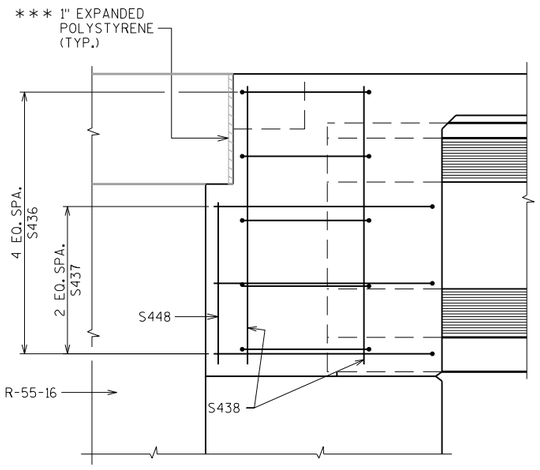
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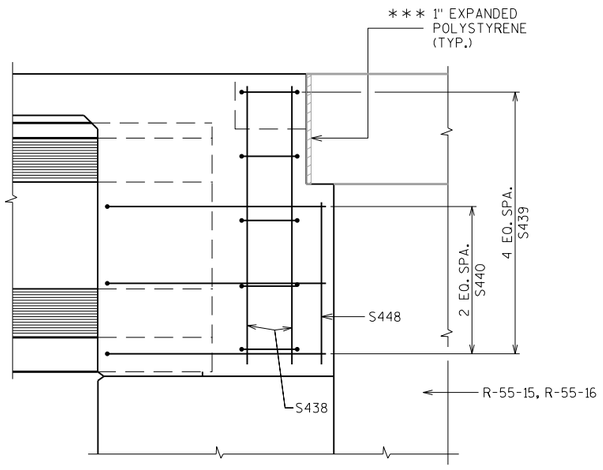


DIAPHRAGM END DETAILS

*** INCIDENTAL TO THE BID ITEM 'CONCRETE MASONRY BRIDGES'



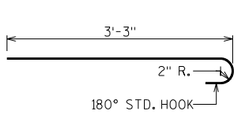
AT S.E. & N.W. END OF ABUTMENTS



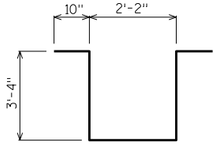
AT S.W. & N.E. END OF ABUTMENTS

PART LONGITUDINAL SECTIONS @ DIAPHRAGM END DETAILS

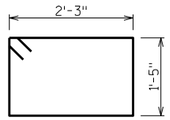
*** INCIDENTAL TO THE BID ITEM 'CONCRETE MASONRY BRIDGES'



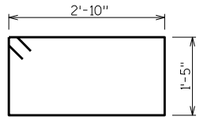
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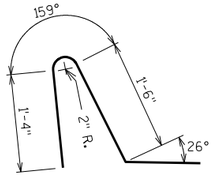
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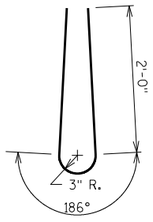
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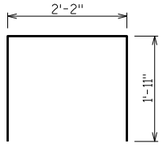
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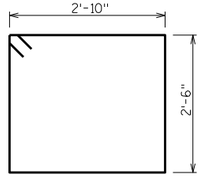
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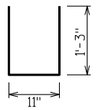
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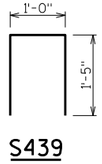
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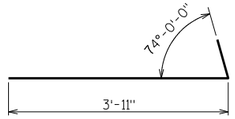
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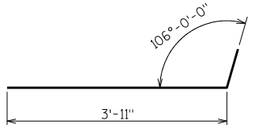
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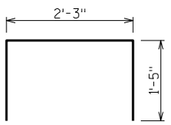
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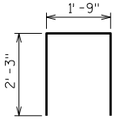
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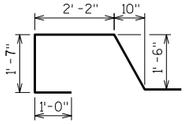
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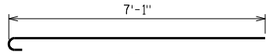
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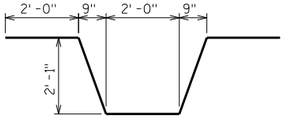
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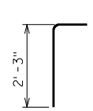
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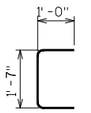
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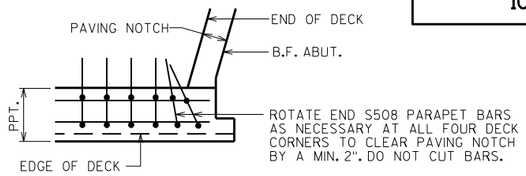
S644



S546

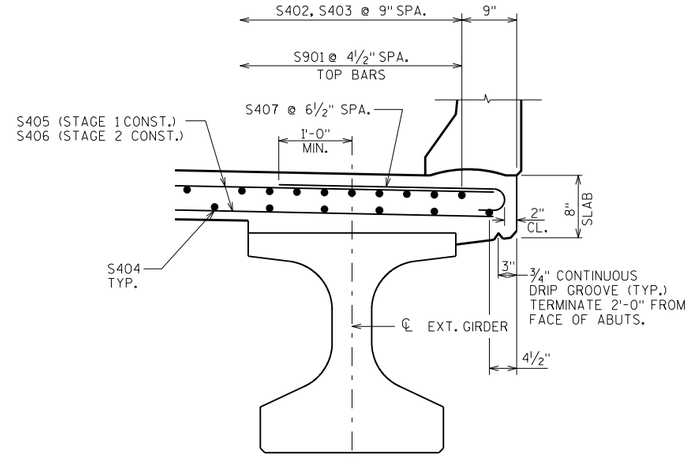


S547

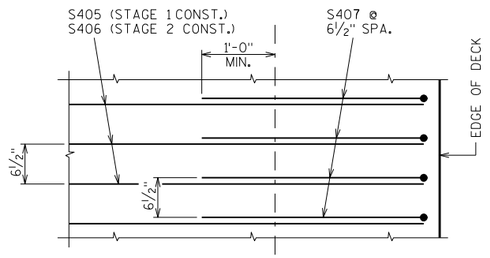


CORNER DETAIL

(SHOWING N.E. CORNER - DETAIL TYP. @ ALL CORNERS OF SUPERSTRUCTURE)



SECTION



PLAN

ADDITIONAL REINF. DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-249

DRAWN BY ARC | PLANS CK'D. CRJ/BLB

SUPERSTRUCTURE DETAILS 2

SHEET 17

590

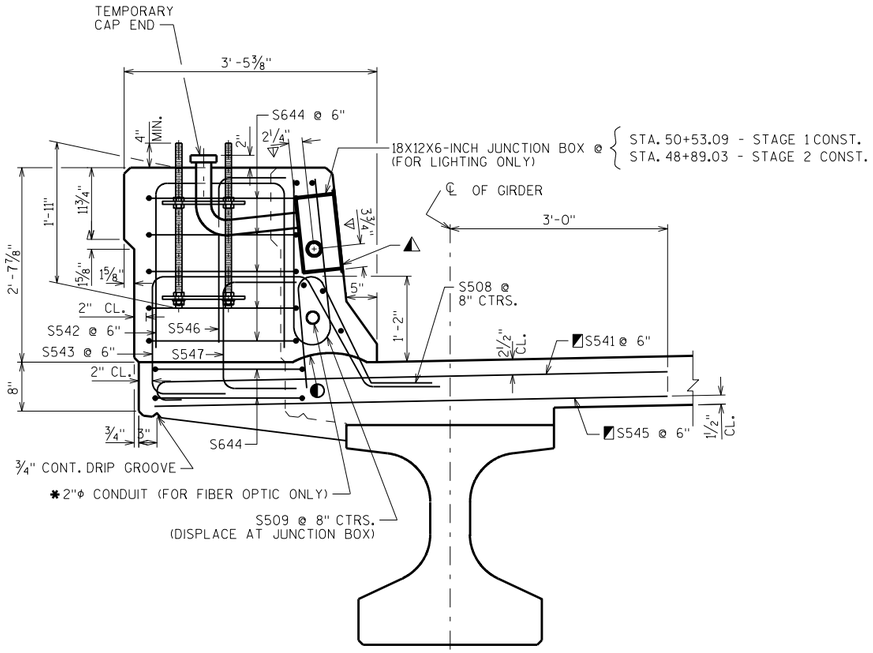
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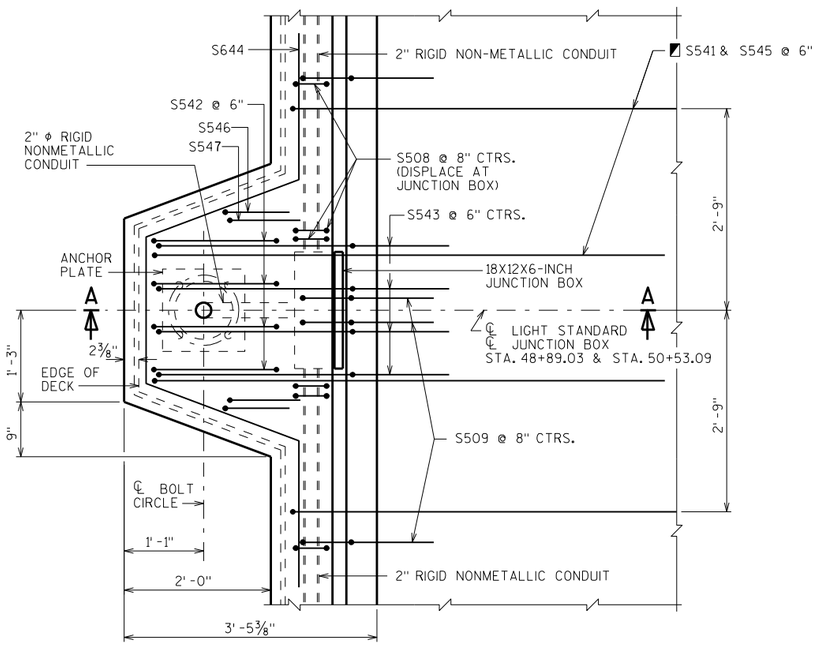
STATE PROJECT NUMBER

1020-07-74



SECTION A-A

* DO NOT RUN LOWER (FIBER OPTIC) CONDUIT THROUGH JUNCTION BOX



PLAN AT LIGHT SUPPORT

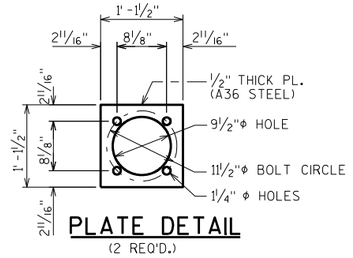
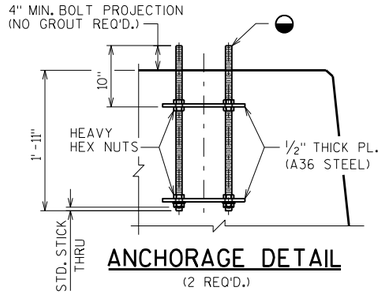


PLATE DETAIL

(2 REQ'D.)



ANCHORAGE DETAIL

(2 REQ'D.)

NOTES

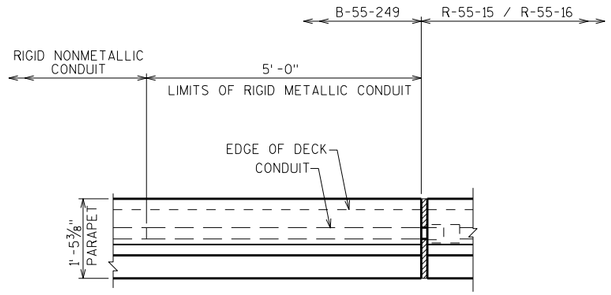
BID ITEMS SHALL BE:
"JUNCTION BOXES 18X12X6-INCH", EACH.
"ANCHOR ASSEMBLIES LIGHT POLES", EACH.
"CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH"
"CONDUIT RIGID METALLIC 2-INCH".

APPROVED MANUFACTURERS - JUNCTION BOXES:
SEE APPROVED MATERIAL LIST.

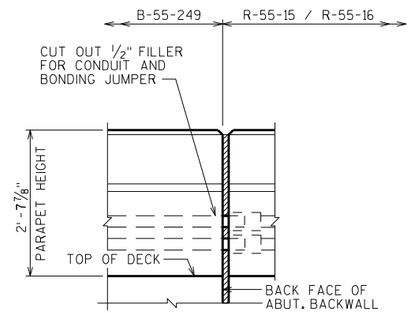
APPROVED MANUFACTURER OR EQUIVALENT - EXPANSION FITTING:
O-Z/GEDNEY TYPE AX-200 AND BONDING JUMPER (4" TOTAL CONDUIT MOVEMENT).

EXPANSION FITTINGS, ANGLES AND ADAPTER FITTINGS TO BE INCIDENTAL TO "CONDUIT RIGID METALLIC 2-INCH".

WHEN CONNECTING NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS U.L. LISTED FOR ELECTRICAL USE SHALL BE USED.



PLAN OF PARAPET AT END OF BRIDGE DECK



OUTSIDE ELEVATION OF PARAPET AT END OF BRIDGE DECK

◐ CONSTR. JT. STRIKE OFF AS SHOWN

◭ CUT OUT ± 1" OF GASKET AT BOTTOM OF JUNCTION BOX COVER TO ALLOW FOR DRAINAGE.

▽ LOCATION OF CONDUIT IS MEASURED FROM OUTSIDE EDGE OF JUNCTION BOX.

◩ THESE BARS ARE IN ADDITION TO STANDARD TRANSVERSE BARS IN DECK.

◒ 1"Φ THREADED ANCHOR BOLTS ASTM A449 OR AASHTO M 314-90 GR 55. HOT DIP ASTM A153, CLASS C, UPPER 8" OF BOLT INCLUDING NUTS & WASHERS. PROVIDE ENLARGED THREAD ON NUTS FOR PROPER FIT AFTER GALVANIZING. PROVIDE DOUBLE FLAT WASHERS & NUTS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-249

DRAWN BY ARC | PLANS CK'D: CRJ/BLB

PARAPET "LF" ELECTRICAL WORK

SHEET 18

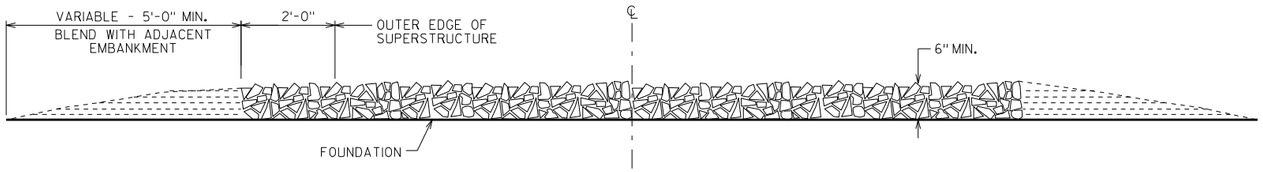
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STATE PROJECT NUMBER
1020-07-74

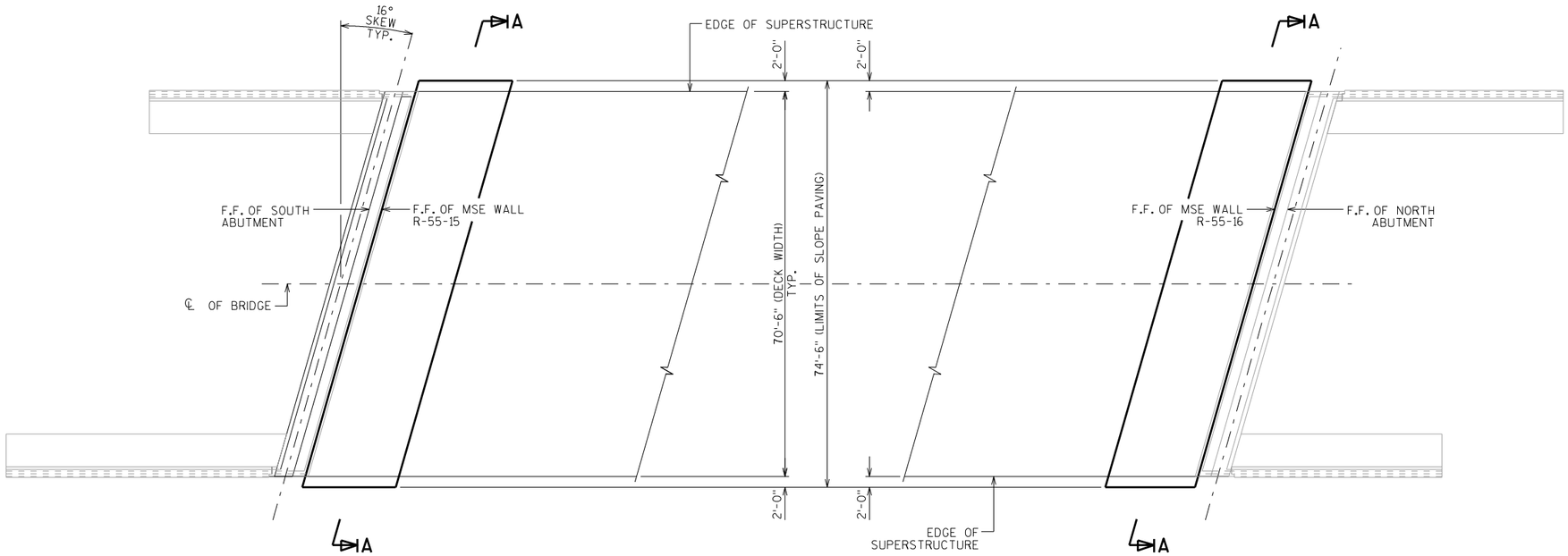


SECTION A-A

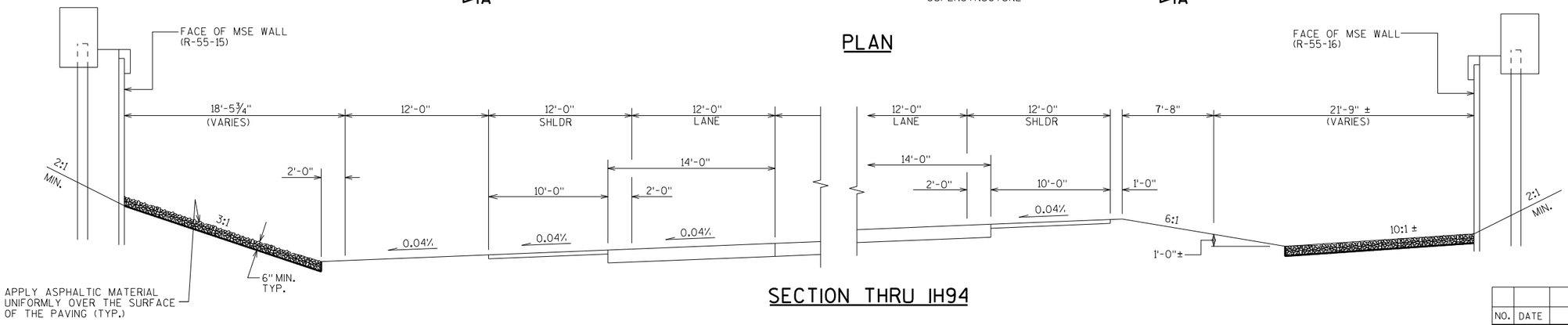
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS.

WOOD FORMS MAY BE LEFT IN PLACE WHEN OF A QUALITY ACCEPTABLE TO THE ENGINEER.



PLAN



SECTION THRU IH94

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-249

DRAWN BY ARC | PLANS CK'D. CRJ/BLB

SLOPE PAVING (CRUSHED AGGREGATE)

SHEET 19

592

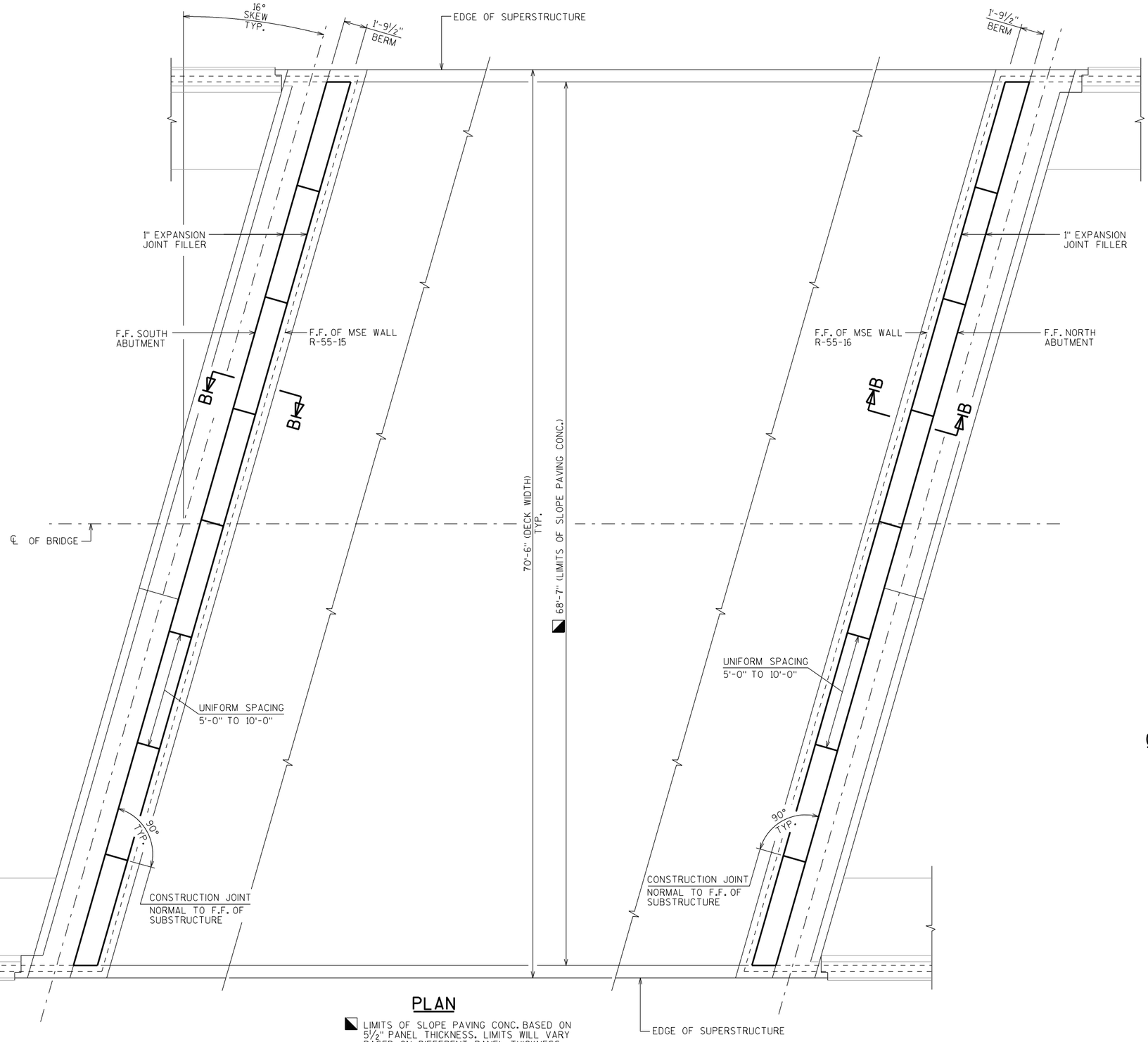
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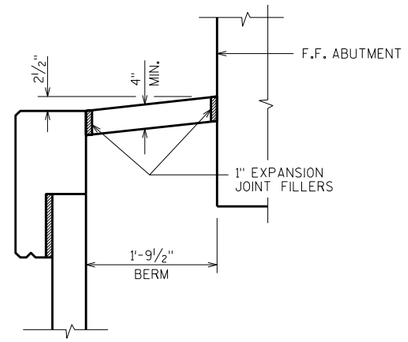
STATE PROJECT NUMBER

1020-07-74

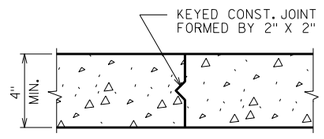


PLAN

■ LIMITS OF SLOPE PAVING CONC. BASED ON 5½" PANEL THICKNESS. LIMITS WILL VARY BASED ON DIFFERENT PANEL THICKNESS.



SECTION B-B



CONSTRUCTION JOINT DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN HEREON SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-249

DRAWN BY ARC | PLANS CK'D. CRI/BLB

SLOPE PAVING (CONCRETE CAST-IN-PLACE)

SHEET 20

593

8

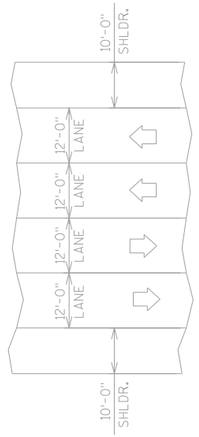
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STATE PROJECT NUMBER

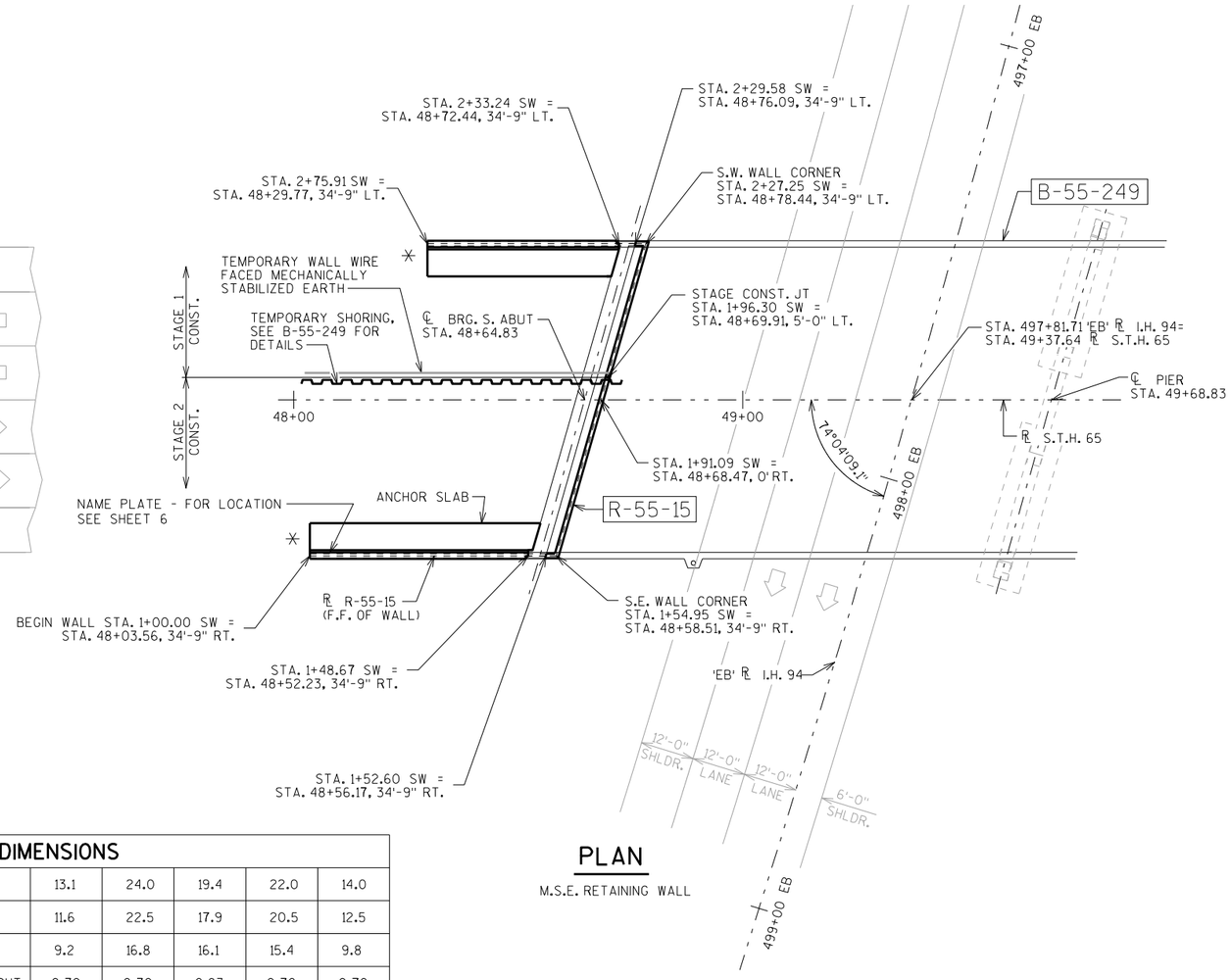
1020-07-74

✳ PROVIDE FOR THRIE BEAM GUARD RAIL ATTACHMENT



LEGEND

TRAFFIC DIRECTION



PLAN

M.S.E. RETAINING WALL

SAFETY FACTORS

DIMENSIONS					
WALL HEIGHT (FT.) [1]	13.1	24.0	19.4	22.0	14.0
EXPOSED WALL HEIGHT (FT.)	11.6	22.5	17.9	20.5	12.5
LENGTH OF REINFORCEMENT (FT.) [3]	9.2	16.8	16.1	15.4	9.8
LENGTH OF REINFORCEMENT/WALL HEIGHT	0.70	0.70	0.83	0.70	0.70
WALL STATION	1+25.0	1+48.7	1+54.9	2+33.2	2+50.0
BORING	B-2	B-2	B-2	B-6	B-6
FACTOR OF SAFETY [4]					
SLIDING ($FS_{REQ.}$>1.5)	2.0	2.2	1.5	2.2	2.1
OVERTURNING ($FS_{REQ.}$>2.0)	3.5	3.9	3.3	3.8	3.5
GLOBAL STABILITY ($FS_{REQ.}$>1.3)	N/A [5]	N/A [5]	2.5	N/A [5]	N/A [5]
BEARING CAPACITY ($FS_{REQ.}$>2.5)	5.4	3.8	3.3	3.0	3.8
ALLOWABLE BEARING CAPACITY (PSF)	4,900	6,000	6,000	4,400	3,700

NOTES:

1. THE WALL HEIGHT INCLUDES AN EMBEDMENT OF 1.5 FEET.
2. THE WALL STABILITY EVALUATION INCLUDED A SURCHARGE LOAD THAT WAS EQUAL TO THE WEIGHT OF THE SOIL BEHIND THE ABUTMENT.
3. THE LENGTH OF REINFORCEMENT IS THE MINIMUM REQUIRED LENGTH.
4. $FS_{REQ.}$ ARE PRESENTED IN CHAPTER 14 OF THE BRIDGE MANUAL.
5. N/A = NOT APPLICABLE, GLOBAL SLOPE STABILITY WAS EVALUATED AT THE CRITICAL WALL LOCATION.

TOTAL ESTIMATED QUANTITIES

	BID ITEM NUMBER	BID ITEMS	UNIT	TOTAL
	502.3200	PROTECTIVE SURFACE TREATMENT	SY	42
**	504.0500	CONCRETE MASONRY RETAINING WALLS	CY	40
**	505.0615	BAR STEEL REINFORCEMENT HS COATED RETAINING WALLS	LB	4,570
	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	3
	517.1010.S	CONCRETE STAINING R-55-15	SF	2,960
	532.0500.S	WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH	SF	2,660
	532.0750.S	TEMPORARY WALL WIRE FACED MECHANICALLY STABILIZED EARTH	SF	1,000
	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	230
	614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	2
	652.0125	CONDUIT RIGID METALLIC 2-INCH	LF	182
		NON-BID ITEMS		
		PRE-FORMED JOINT FILLER	SIZE	¾"
		NON-BITUMINOUS JOINT SEALER	SIZE	¾", 1"
		CORK FILLER	SIZE	1"

** QUANTITY INCLUDES: VEHICLE BARRIER AND PARAPET.

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH".

PLANS, ELEVATIONS AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE RETAINING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN ON SHEET 2.

DESIGN RETAINING WALL FOR A LIVE LOAD SURCHARGE OF 240 PSF.

THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30° WITHOUT CERTIFIED TEST VALUES.

ALLOWABLE WALL SYSTEMS

WALL CONCRETE PANEL M.S.E.

ULTIMATE DESIGN STRESSES:

CONCRETE MASONRY (CONCRETE VEHICLE BARRIER AND COPING) —— f'c = 3,500 P.S.I.

BAR STEEL REINFORCEMENT, GRADE 60 ———— fy = 60,000 P.S.I.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BEVEL ALL EXPOSED EDGES OF CONCRETE ¾" UNLESS NOTED OTHERWISE.

BAR STEEL REINFORCEMENT SHALL HAVE A 2" CLEAR COVER UNLESS OTHERWISE SHOWN OR NOTED.

STAIN BACK FACE OF PARAPET AND ALL EXPOSED M.S.E. WALL SURFACES, USING A LIGHT GRAY STAIN (FEDERAL STANDARD COLOR NO.36622), IN ACCORDANCE WITH THE SPECIAL PROVISIONS. STAIN TO EXTEND 1-0" MINIMUM BELOW FINISHED GRADE.

APPLY PROTECTIVE SURFACE TREATMENT TO THE TOP AND INSIDE FACE OF THE CONCRETE PARAPETS AND THE EXPOSED TOP SURFACE (6") OF ANCHOR SLAB.

ALL WALL STATIONING AND OFFSETS ARE GIVEN AT THE FRONT FACE OF THE WALLS.

THE 'SW' STATION LINE SIGNIFIES STATIONING ALONG THE FRONT FACE OF R-55-15.

THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION OF RETAINING WALL R-55-15 WITH THE S. ABUT. OF BRIDGE B-55-249.

EXPANSION JOINT LOCATIONS AND DIMENSIONS AS SHOWN ARE FOR INFORMATIONAL USE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF THE EXPANSION JOINTS.

THE PLAN QUANTITY FOR THE ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF THE WALL TO THE TOP OF THE LEVELING PAD, SET AT A CONSTANT DEPTH OF 1'-6" BELOW FINISHED GRADE.

THE QUANTITY OF CONCRETE MASONRY FOR THE CAST-IN-PLACE ANCHOR SLAB AND COPING IS PAID FOR UNDER THE ITEM "CONCRETE MASONRY RETAINING WALLS".

THE QUANTITIES AND REINFORCEMENT DETAILS ARE BASED ON AN ASSUMED WALL PANEL THICKNESS OF 6 INCHES AND A 5 INCH PANEL EMBEDMENT. FOR PANEL THICKNESS AND PANEL EMBEDMENT DIFFERENT THAN THESE VALUES, THE CONTRACTOR SHALL VERIFY REINFORCEMENT BAR DETAILS AND QUANTITIES AND WILL BE RESPONSIBLE FOR ANY QUANTITY VARIATIONS.

LIST OF DRAWINGS

1. GENERAL PLAN & QUANTITIES
2. ELEVATION & DESIGN DATA
3. SUBSURFACE EXPLORATION
4. WALL DETAILS
5. ANCHOR SLAB DETAILS
6. SLOPED FACE PARAPET 'LF'
7. CONDUIT DETAILS

STRUCTURES DESIGN CONTACTS:

ALEXANDER CRABTREE (608) 266-3686
LAURA SHADEWALD (608) 267-9592

NO.	DATE	REVISION	BY

Plans Prepared By **WISDOT**
BUREAU OF STRUCTURES

ACCEPTED William C. Dreher LLS — CHIEF STRUCTURES DESIGN ENGINEER — 6/10/11 DATE

STRUCTURE R-55-15

S.T.H. 65 OVER I.H. 94

COUNTY ST. CROIX | TOWN ~~CITY/VILLAGE~~ WARREN

DESIGN SPEC. AASHTO LRFD DESIGN SPEC. 5th EDITION

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
ARC	BLB	ARC	BLB

GENERAL PLAN & QUANTITIES

SHEET 1 OF 7

594

I.D. 1020-07-04

DATE: JAN. 2012

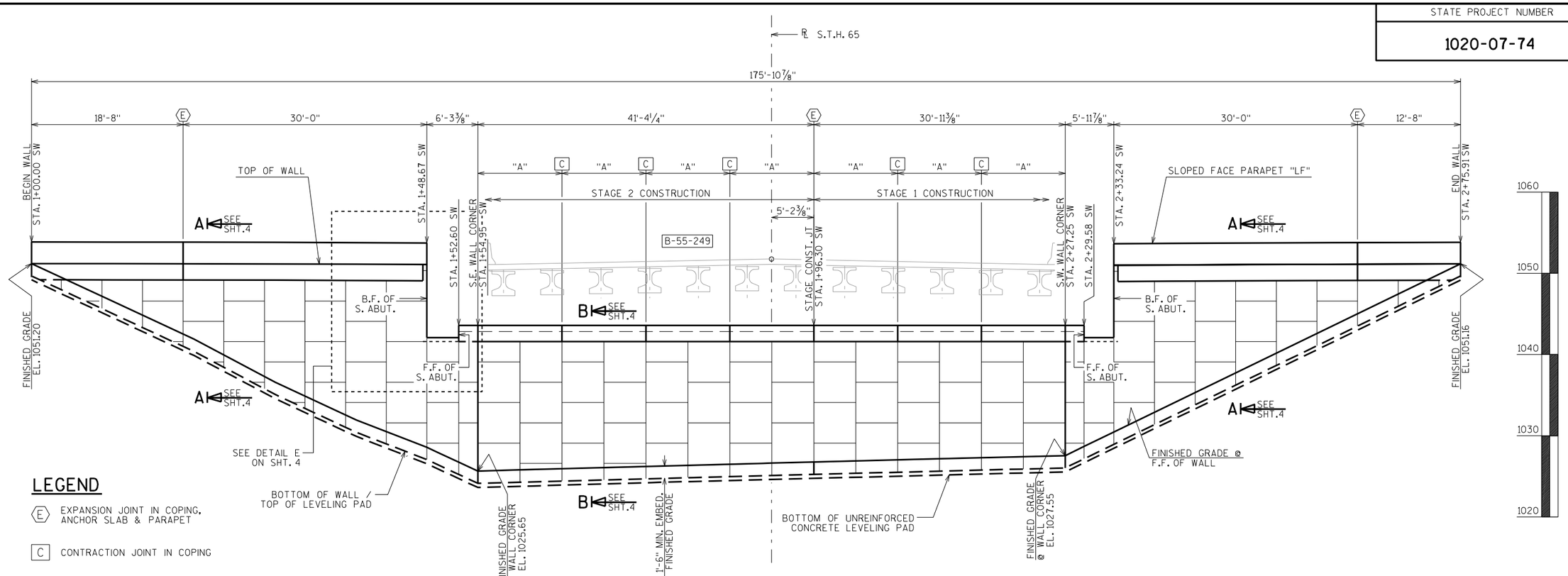
SCALE = 16

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STATE PROJECT NUMBER

1020-07-74



LEGEND

(E) EXPANSION JOINT IN COPING, ANCHOR SLAB & PARAPET

C CONTRACTION JOINT IN COPING

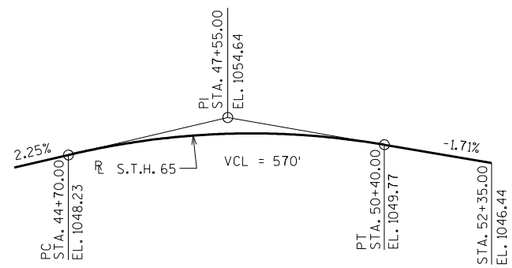
DIM "A" = 12' MAXIMUM SPACING

SOIL PARAMETERS

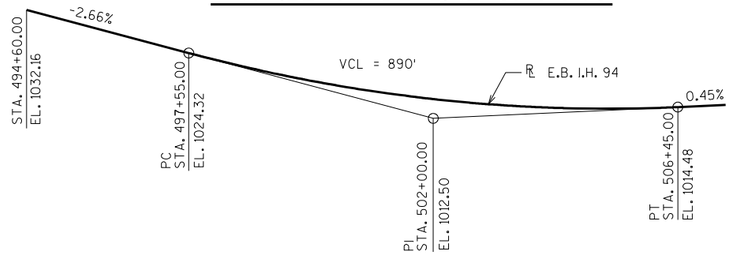
SOIL DESCRIPTION	FRICTION ANGLE, (DEGREES)	COHESION, (PSF)	UNIT WEIGHT, (PCF)
GRANULAR BACKFILL WITHIN THE WALL IN THE REINFORCING ZONE	30	0	120
FILL BEHIND AND BELOW THE REINFORCING ZONE	31	0	120
B-2, STA. 48+00			
SAND AND SILT, BROWN, FINE TO MEDUIM ELEVATION 1047.5 FEET TO 1044.0 FEET	31	0	120
SAND, LIGHT BROWN TO WHITE, FINE TO MEDUIM ELEVATION 1044.0 FEET TO 1024.5 FEET	33	0	110
SILT, GRAY, TRACE CLAY ELEVATION 1024.5 FEET TO 1023.0 FEET	0	4,000	125
SAND, BROWN, FINE TO MEDUIM, TRACE SILT ELEVATION 1023.0 FEET TO 1022.0 FEET	33	0	110
SILT, GRAY TO BROWN, TRACE CLAY, SOME SAND ELEVATION 1022.0 FEET TO 1018.5 FEET	0	3,000	115
SAND, BROWN, FINE TO COURSE, SOME SILT ELEVATION 1018.5 FEET TO 1003.0 FEET	36	0	115
SILT, BROWN, LITTLE CLAY ELEVATION 1003.0 FEET TO 1000.0 FEET	0	3,500	120
SANDSTONE ELEVATION 1000.0 FEET AND BELOW	0	25,000	140
B-6, STA. 48+78.6			
CLAY, BROWN, LITTLE SILT ELEVATION 1023.0 FEET TO 1021.5 FEET	0	3,500	135
SAND, BROWN, FINE TO COURSE, LITTLE SILT ELEVATION 1021.5 FEET TO 998.0 FEET	33	0	115
SANDSTONE ELEVATION 998.0 FEET AND BELOW	0	25,000	140

ELEVATION

(LOOKING DOWN-STATION)



PROFILE GRADE LINE S.T.H. 65



PROFILE GRADE LINE E.B. I.H. 94

TABLE OF WALL ELEVATIONS

DESCRIPTION	WALL STATION	TOP OF WALL EL.	FINISHED GRADE EL. @ F.F. WALL
BEGIN WALL	1+00.00 SW	1051.20	1051.20
WALL	1+25.00 SW	1051.16	1039.57
WALL	1+48.67 SW	1051.08	1028.57
WALL	1+48.67 SW	1042.09	1028.57
WALL	1+50.00 SW	1042.09	1027.95
WALL	1+52.60 SW	1042.09	1026.74
WALL	1+52.60 SW	1043.59	1026.74
WALL	1+54.95 SW	1043.59	1025.65
WALL	1+75.00 SW	1043.59	1026.20
WALL	1+91.09 SW	1043.59	1026.63
WALL	1+96.30 SW	1043.59	1026.77
WALL	2+00.00 SW	1043.59	1026.86
WALL	2+25.00 SW	1043.59	1027.50
WALL	2+27.25 SW	1043.59	1027.55
WALL	2+29.58 SW	1043.59	1028.68
WALL	2+29.58 SW	1042.09	1028.68
WALL	2+33.24 SW	1042.09	1030.46
WALL	2+33.24 SW	1050.99	1030.46
WALL	2+50.00 SW	1051.07	1038.59
WALL	2+75.00 SW	1051.16	1050.72
END WALL	2+75.91 SW	1051.16	1051.16

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-55-15

DRAWN BY ARC | PLANS CK'D. BLB

ELEVATION & DESIGN DATA

SHEET 2

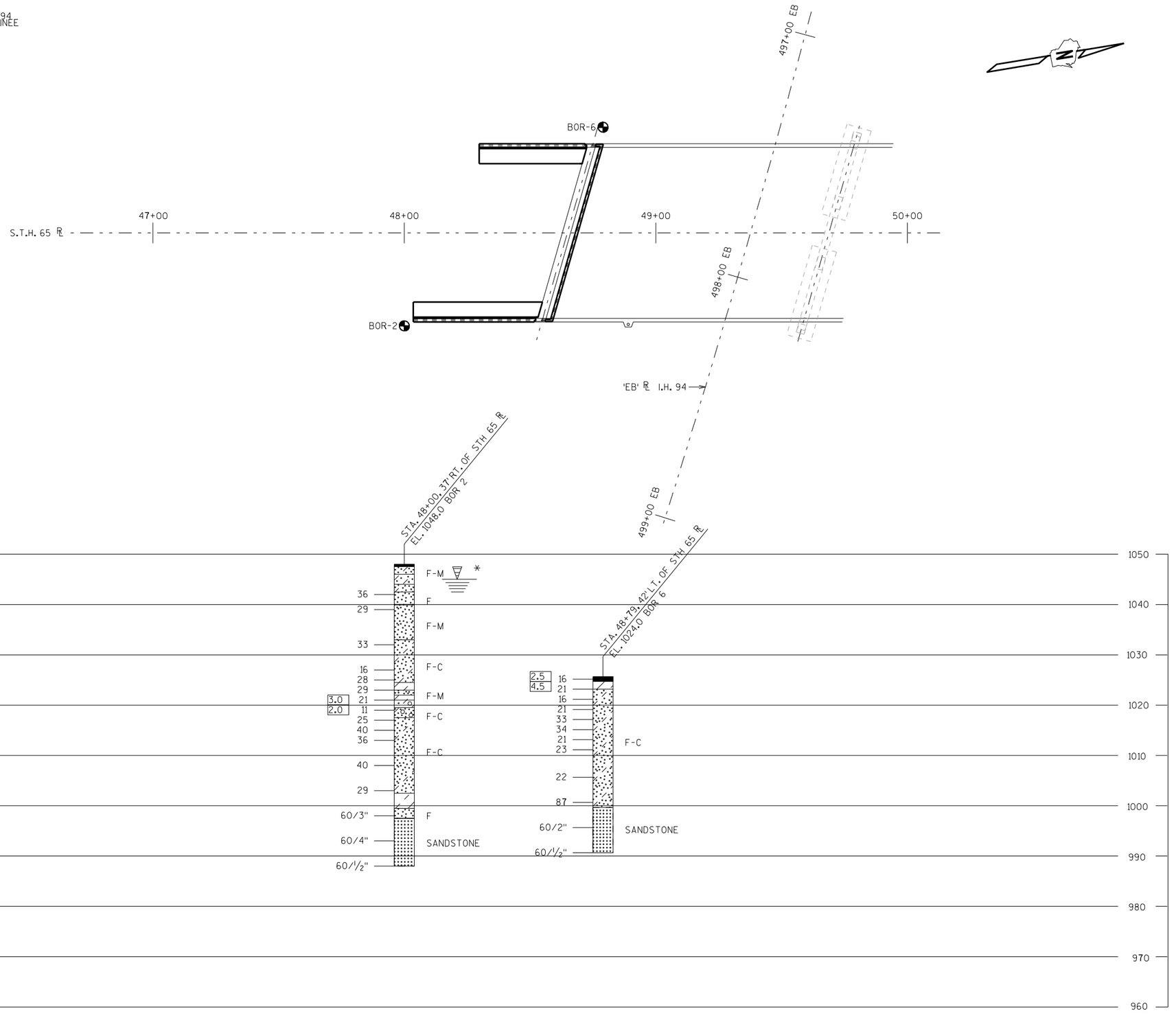
595

SCALE = 6.4

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8

STH 65 OVER IH 94
HUDSON - MENOMINEE



* THE GROUND WATER ELEVATION WAS DETERMINED FROM WHERE THE SOIL SAMPLE WAS DESCRIBED AS WET.

STATE PROJECT NUMBER

1020-07-74

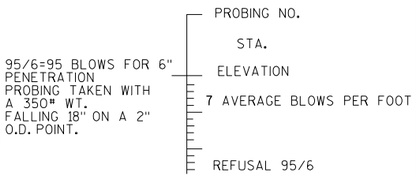
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

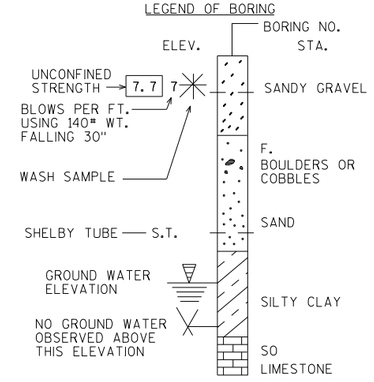
MATERIAL SYMBOLS

TOPSOIL, SILT, SANDSTONE
SAND, PEAT, LIMESTONE
GRAVEL, CLAY, IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-55-15

DRAWN BY ARC | PLANS CK'D. BLB

SUBSURFACE EXPLORATION

SHEET 3

596

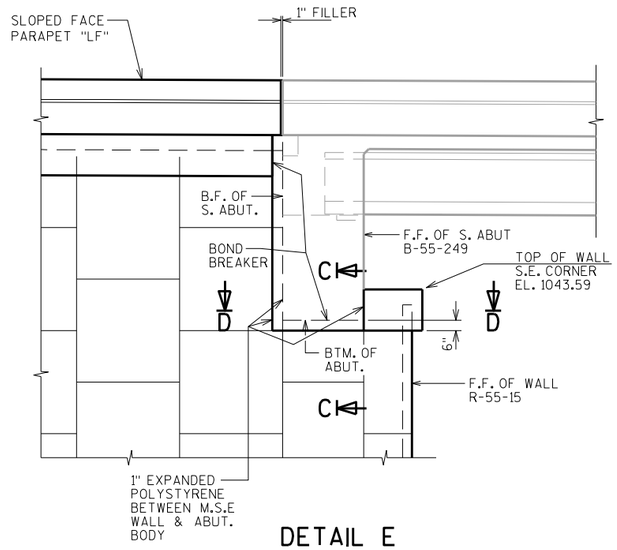
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8

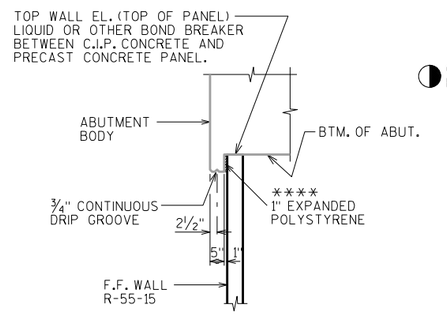
SCALE = 10

STATE PROJECT NUMBER

1020-07-74

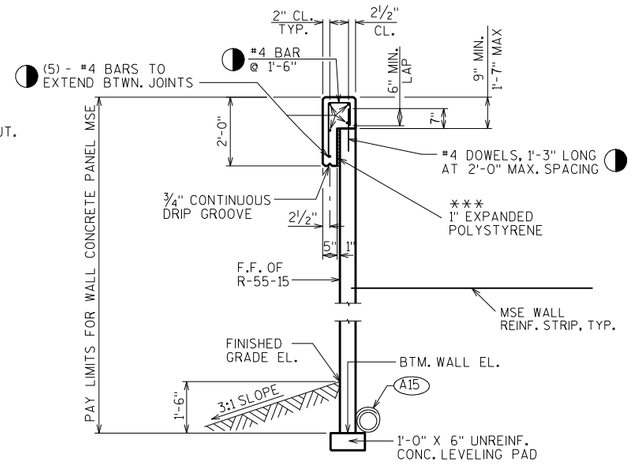


DETAIL E



SECTION C-C

**** INCIDENTAL TO THE BID ITEM CONCRETE MASONRY BRIDGES (B-55-249)

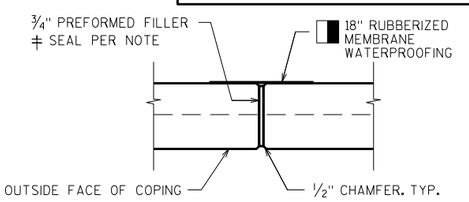


SECTION B-B

(SEE SECTION CALLOUT ON SHT. 2)

◑ BAR STEEL REINFORCEMENT IN C.I.P. COPING TO BE INCLUDED IN THE BID ITEM WALL CONCRETE PANEL M.S.E.

*** INCIDENTAL TO THE BID ITEM CONCRETE MASONRY RETAINING WALLS.

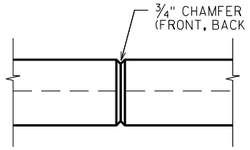


COPING EXPANSION DETAIL

DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 50'

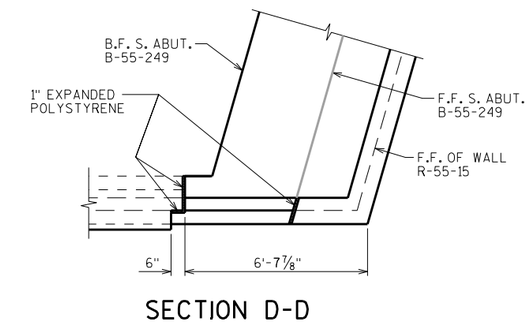
◑ MEMBRANE WATERPROOFING TO EXTEND FROM TOP OF COPING TO 6" BELOW TOP OF PANELS

‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONC.)

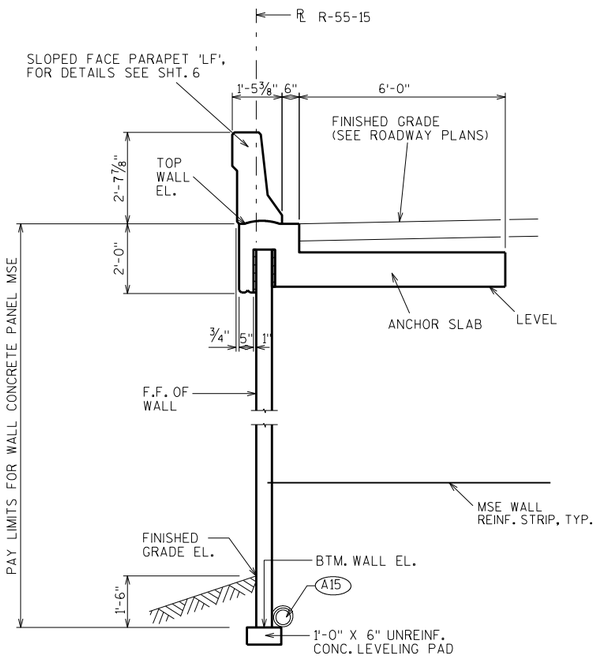


COPING CONTRACTION JOINT

DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 12'



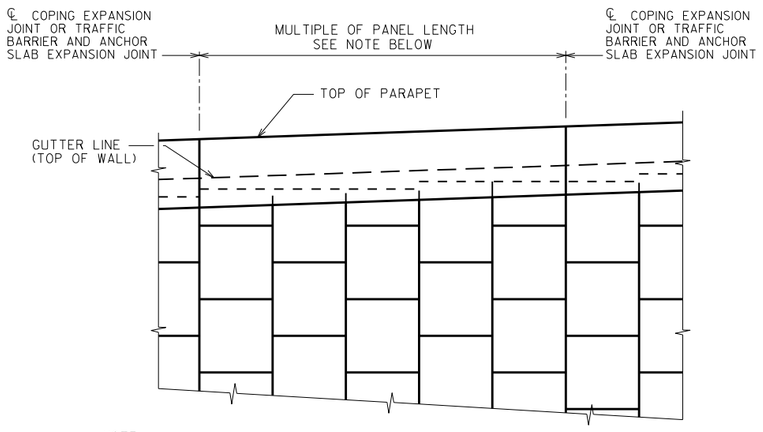
SECTION D-D



SECTION A-A

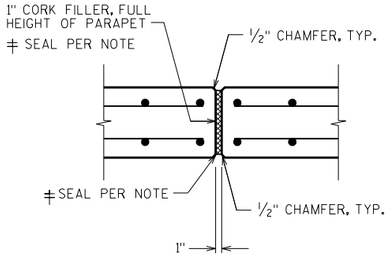
(SEE SECTION CALLOUT ON SHT. 2)

A15 PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SCREEN REQUIRED.



NOTE:
ALL JOINTS SHALL BE LOCATED AS SHOWN ON THE WALL ELEVATIONS AND MUST COINCIDE WITH PANEL JOINT ON FRONT FACE.

C.I.P. CONCRETE VEHICLE BARRIER PARTIAL ELEVATION



⊛ TRAFFIC BARRIER EXPANSION JOINT DETAIL

⊛ EXPANSION JOINTS TO BE SPACED AT A MINIMUM OF 20' AND A MAXIMUM OF 30'. LOCATE EXPANSION JOINTS OVER WALL JOINTS. DO NOT RUN BAR STEEL THRU JOINT. EXCEPT FOR DOWEL BARS. JOINT TO EXTEND FULL DEPTH OF PARAPET AND ANCHOR SLAB.

‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONC.)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-55-15

DRAWN BY ARC | PLANS CK'D. BLB

WALL DETAILS

SHEET 4

597

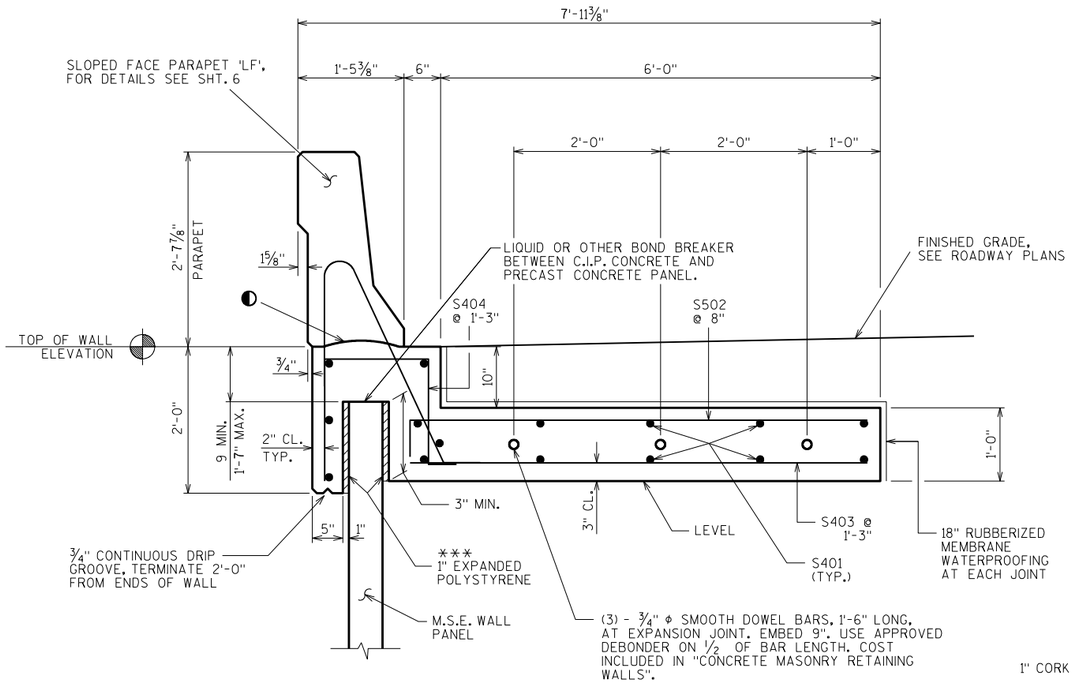
8

8

SCALE = 5.333

STATE PROJECT NUMBER

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TYPICAL SECTION OF ANCHOR SLAB

◐ CONST. JOINT - STRIKE OFF AS SHOWN.

OPTIONAL CONSTRUCTION JOINTS IN THE PARAPET AND ANCHOR SLAB BETWEEN EXPANSION JOINTS MAY BE USED. RUN BAR REINFORCEMENT THRU THE JOINT. LAP LONGITUDINAL BARS IN PARAPET A MINIMUM OF 1'-9". DEFINE CONSTRUCTION JOINT WITH A 3/4" "V" GROOVE.

LAP LONGITUDINAL #4 BARS A MINIMUM OF 1'-0".

ALL BAR STEEL SHOULD BE EPOXY COATED.

CONCRETE QUANTITY BASED ON 3" PANEL EMBEDMENT & 5 1/2" PANEL THICKNESS.

*** INCIDENTAL TO THE BID ITEM CONCRETE MASONRY RETAINING WALLS.

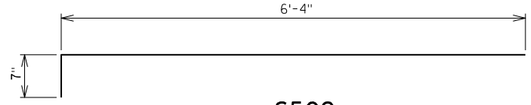
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

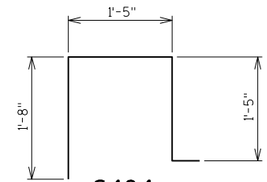
BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
S401	X	15	91'-4"			CONC. BARRIER - LONGITUDINAL
S502	X	141	6'-10"	X		CONC. BARRIER - TRANSVERSE
S403	X	77	6'-4"			CONC. BARRIER - TRANSVERSE
S404	X	77	4'-8"	X		CONC. BARRIER - VERTICAL

NUMBER REQUIRED AND LENGTH SHOWN FOR QUANTITY PURPOSES ONLY. CONTRACTOR TO DETERMINE ACTUAL LENGTHS AND NUMBER OF S401 BARS AFTER M.S.E. PANELS HAVE BEEN LAID OUT BY THE WALL SUPPLIER. THE PARAPET AND ANCHOR SLAB EXPANSION JOINTS MUST COINCIDE WITH PANEL JOINT ON FRONT FACE. PROVIDE 2" CLEAR COVER AT EXPANSION JOINTS.

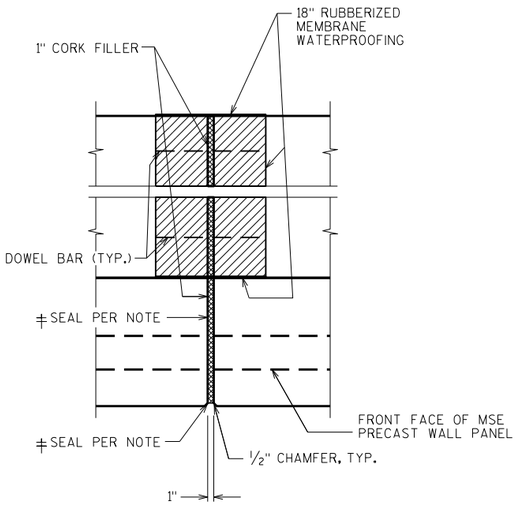
NOTE: ASSUMED PANEL THICKNESS OF 5 1/2" USED WHEN DETERMINING BAR DIMENSIONS.



S502



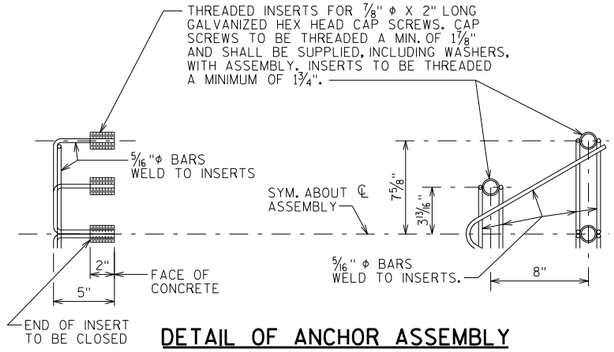
S404



⊛ ANCHOR SLAB EXPANSION JOINT DETAIL

⊛ EXPANSION JOINTS TO BE SPACED AT A MINIMUM OF 20' AND A MAXIMUM OF 30'. LOCATE EXPANSION JOINTS OVER WALL JOINTS. DO NOT RUN BAR STEEL THRU JOINT. EXCEPT FOR DOWEL BARS. JOINT TO EXTEND FULL DEPTH OF PARAPET AND ANCHOR SLAB.

‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONC.)



DETAIL OF ANCHOR ASSEMBLY

NOTE: HEX HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

ASSEMBLY SHALL BE BID ITEM "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD", EACH.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-55-15

DRAWN BY ARC | PLANS CK'D. BLB

ANCHOR SLAB DETAILS

SHEET 5

598

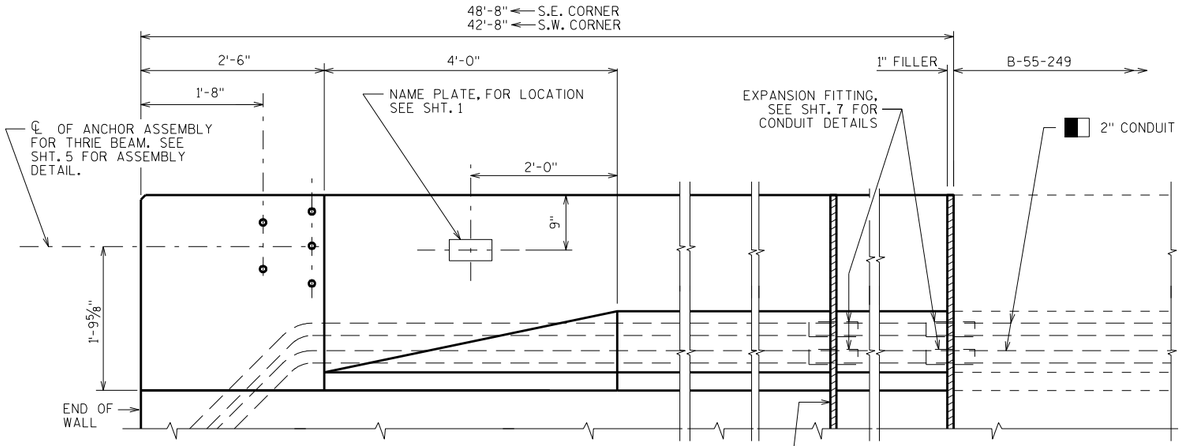
SCALE =1

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8

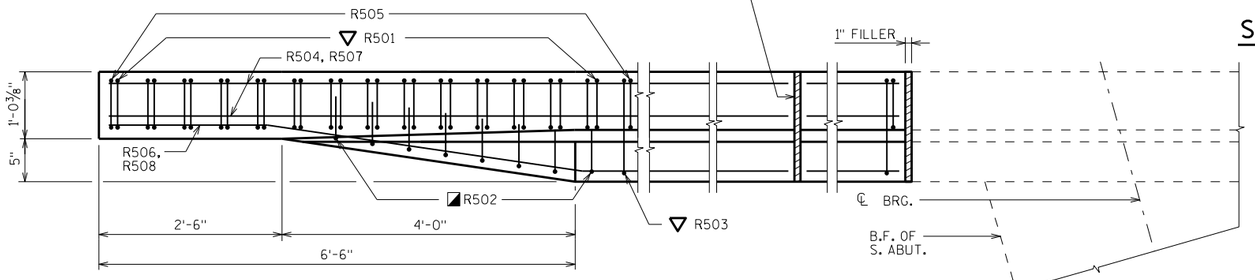
STATE PROJECT NUMBER

1020-07-74



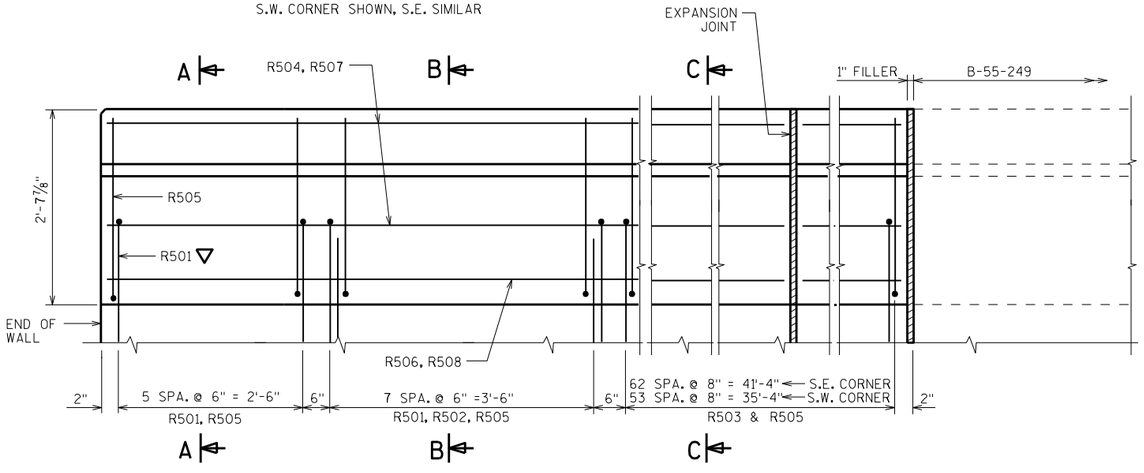
INSIDE ELEVATION

S.W. CORNER SHOWN, S.E. SIMILAR



PLAN

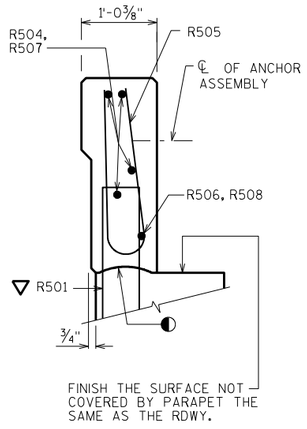
S.W. CORNER SHOWN, S.E. SIMILAR



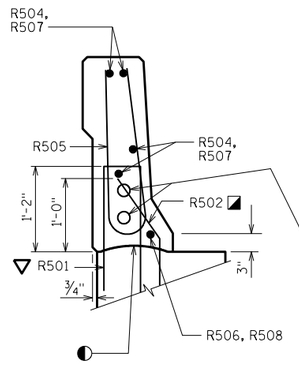
OUTSIDE ELEVATION

S.E. CORNER SHOWN, S.W. SIMILAR

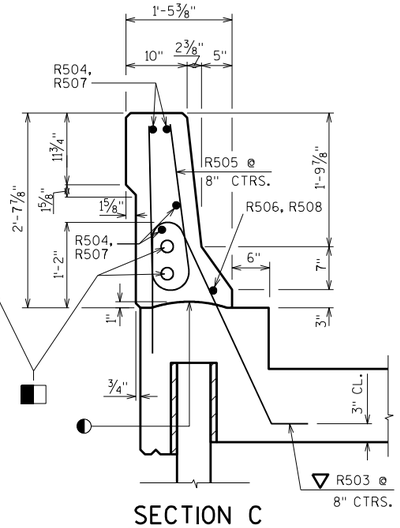
■ USE (2) 2" RIGID METALLIC CONDUIT THRU PARAPET. RIGID METALLIC CONDUIT SHALL EXTEND 5'-0" INTO PARAPET ON DECK SIDE TO A MINIMUM DISTANCE BEYOND END OF ANCHOR SLAB. (FOR GROUNDING PURPOSES.)



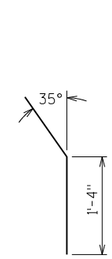
SECTION A



SECTION B

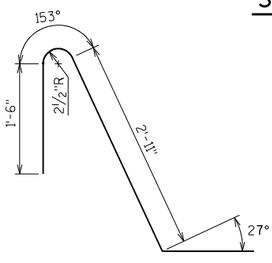


SECTION C

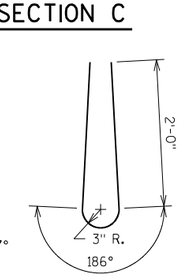


R501

R502



R503



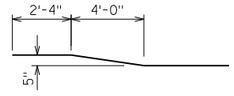
R505

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
R501	X	28	4'-7"	X		PARAPET VERTICAL
R502	X	16	2'-4"	X		PARAPET VERTICAL
R503	X	119	5'-7"	X		PARAPET VERTICAL
R504	X	4	42'-4"			PARAPET LONGITUDINAL - S.W. CORNER
R505	X	147	4'-10"	X		PARAPET VERTICAL
R506	X	1	42'-4"	X		PARAPET LONGITUDINAL - S.W. CORNER
R507	X	4	48'-4"			PARAPET LONGITUDINAL - S.E. CORNER
R508	X	1	48'-4"	X		PARAPET LONGITUDINAL - S.E. CORNER

NUMBER REQUIRED AND LENGTH SHOWN FOR QUANTITY PURPOSES ONLY. CONTRACTOR TO DETERMINE ACTUAL LENGTHS AND NUMBER OF R504, R506, R507 & R508 BARS AFTER M.S.E. PANELS HAVE BEEN LAID OUT BY THE WALL SUPPLIER. THE PARAPET, ANCHOR SLAB AND COPING EXPANSION JOINTS MUST COINCIDE WITH PANEL JOINT ON FRONT FACE. PROVIDE 2" CLEAR COVER AT EXPANSION JOINTS.



R506, R508

◐ CONST. JOINT - STRIKE OFF AS SHOWN.

◪ USE CARE TO PLACE R502 BARS CORRECTLY ALONG TRANSITION OF PARAPET.

▽ R501 AND R503 BARS TO BE TIED TO ANCHOR SLAB STEEL BEFORE ANCHOR SLAB IS POURED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-55-15

DRAWN BY ARC | PLANS CK'D. BLB

SLOPED FACE PARAPET 'LF'

SHEET 6

599

SCALE = 1

8

8

STATE PROJECT NUMBER

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USE (2) - 2" RIGID NONMETALLIC CONDUIT.

USE (2) - 2" RIGID METALLIC CONDUIT WITH TEMPORARY END CAPS.

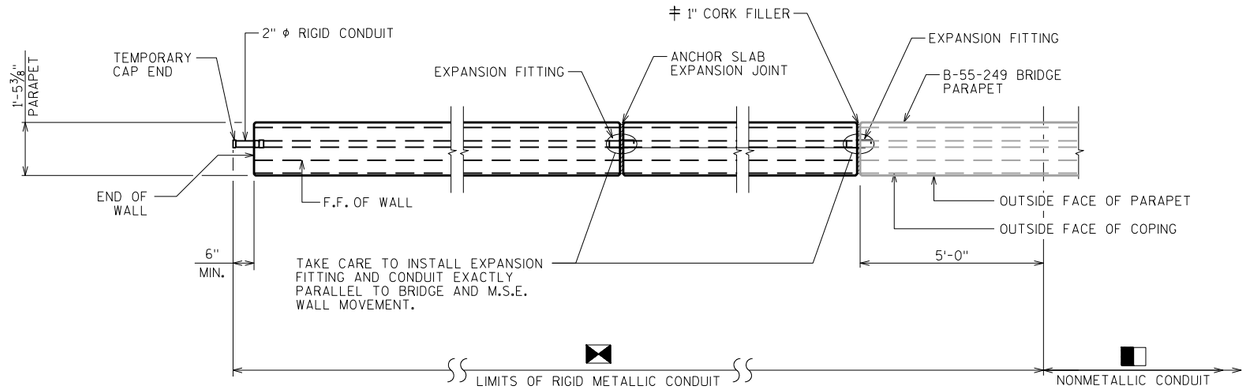
NOTES

BID ITEM SHALL BE:
"CONDUIT RIGID METALLIC 2-INCH".

APPROVED MANUFACTURER OR EQUIVALENT - EXPANSION FITTING:
O-Z/GEDNEY TYPE AX-200 AND BONDING JUMPER (4" TOTAL CONDUIT MOVEMENT).

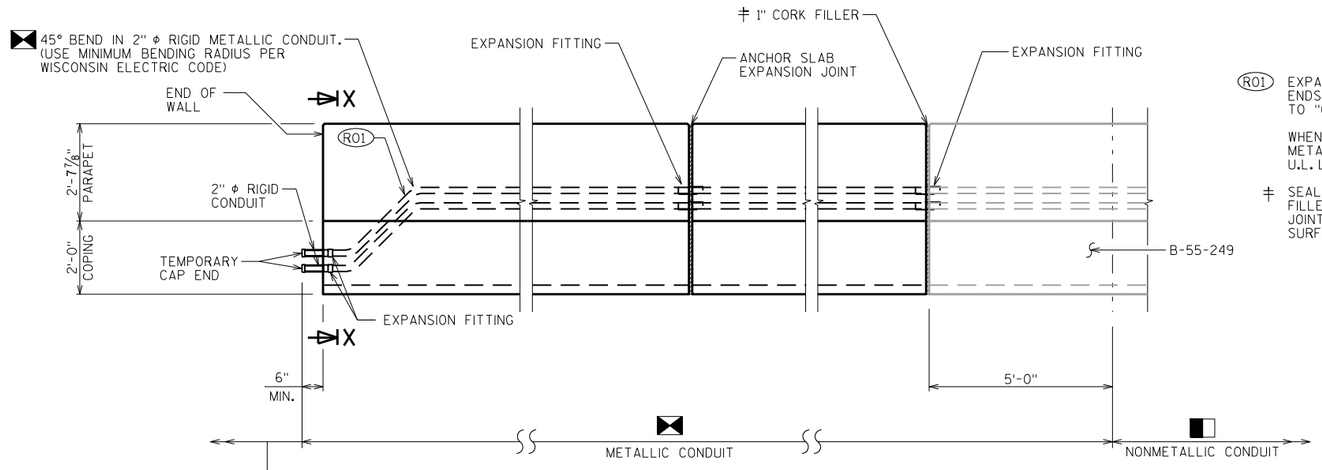
EXPANSION FITTINGS, ANGLES AND ADAPTER FITTINGS TO BE INCIDENTAL TO "CONDUIT RIGID METALLIC 2-INCH".

WHEN CONNECTING NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS U.L. LISTED FOR ELECTRICAL USE SHALL BE USED.



PLAN

S.E. CORNER SHOWN, S.W. CORNER SIMILAR



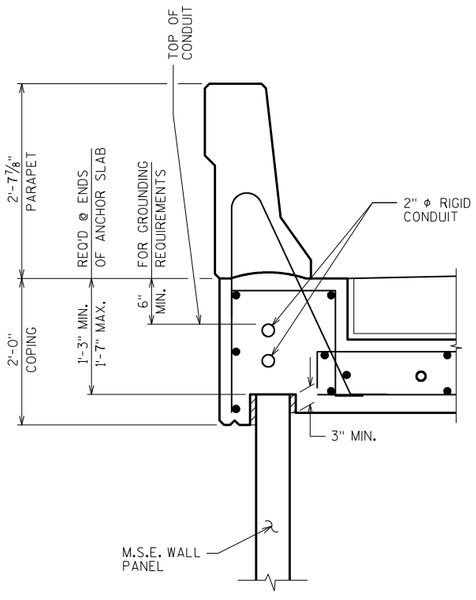
OUTSIDE ELEVATION

S.E. CORNER SHOWN, S.W. CORNER SIMILAR

R01 EXPANSION FITTINGS, ANGLES, TEMPORARY CAP ENDS AND ADAPTER FITTING TO BE INCIDENTAL TO "CONDUIT RIGID METALLIC 2-INCH".

WHEN CONNECTING NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS U.L. LISTED FOR ELECTRICAL USE SHALL BE USED.

‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONC.)



SECTION X-X

CONDUIT DETAILS AT END OF WALL

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-55-15

DRAWN BY ARC | PLANS CK'D. BLB

CONDUIT DETAILS

SHEET 7

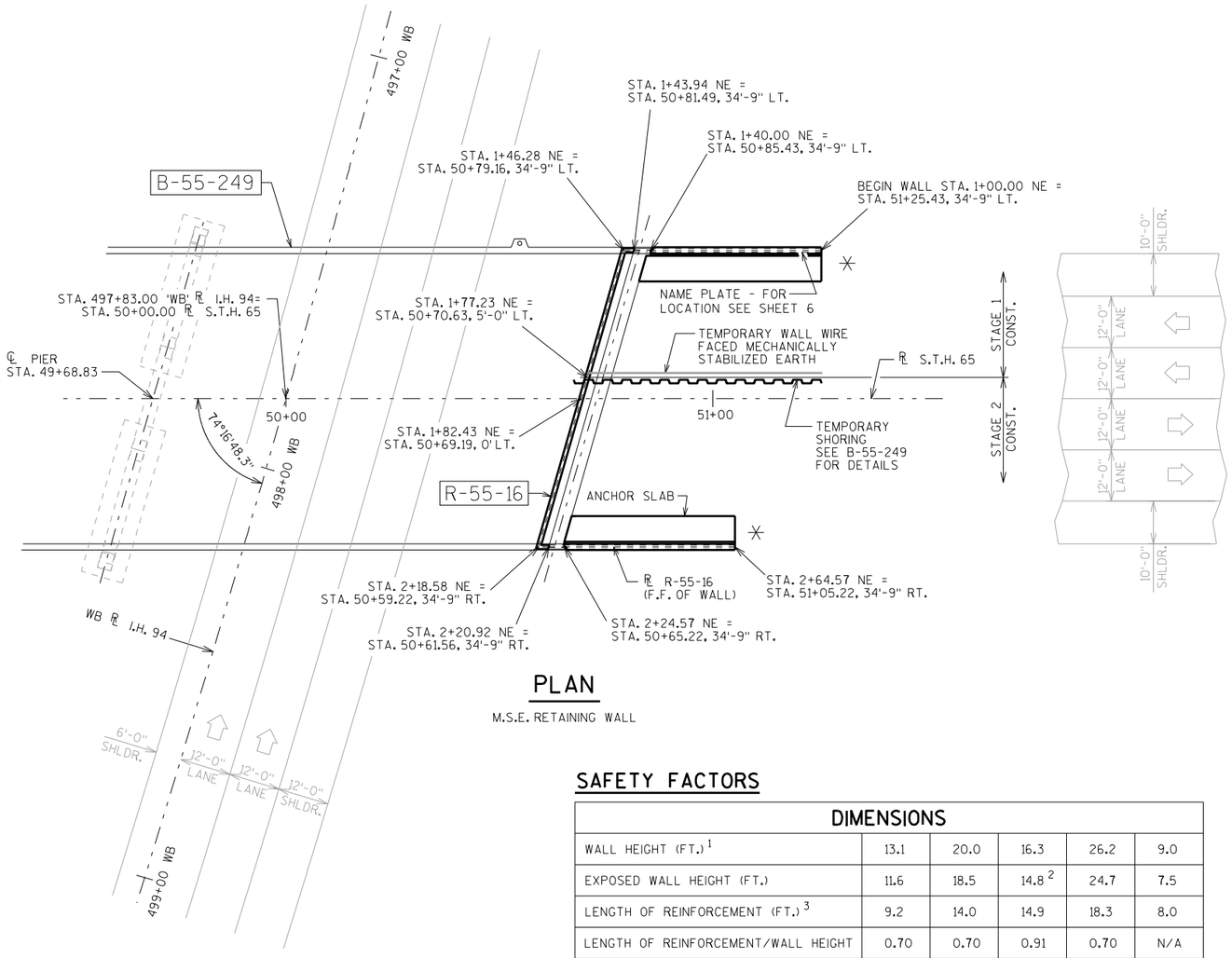
600

SCALE = 2.0

STATE PROJECT NUMBER

1020-07-74

✳ PROVIDE FOR THRIE BEAM GUARD RAIL ATTACHMENT



PLAN

M.S.E. RETAINING WALL

LEGEND

TRAFFIC DIRECTION

TOTAL ESTIMATED QUANTITIES

	BID ITEM NUMBER	BID ITEMS	UNIT	TOTAL
**	502.3200	PROTECTIVE SURFACE TREATMENT	SY	37
**	504.0500	CONCRETE MASONRY RETAINING WALLS	CY	35
**	505.0615	BAR STEEL REINFORCEMENT HS COATED RETAINING WALLS	LB	4,030
	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	3
	517.1010.S	CONCRETE STAINING R-55-16	SF	2,550
	532.0500.S	WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH	SF	2,270
	532.0750.S	TEMPORARY WALL WIRE FACED MECHANICALLY STABILIZED EARTH	SF	1,000
	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	220
	614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	2
	652.0125	CONDUIT RIGID METALLIC 2-INCH	LF	165
		NON-BID ITEMS		
		PRE-FORMED JOINT FILLER	SIZE	¾"
		NON-BITUMINOUS JOINT SEALER	SIZE	¾", 1"
		CORK FILLER	SIZE	1"

** QUANTITY INCLUDES: VEHICLE BARRIER AND PARAPET.

SAFETY FACTORS

DIMENSIONS					
WALL HEIGHT (FT.)[1]	13.1	20.0	16.3	26.2	9.0
EXPOSED WALL HEIGHT (FT.)	11.6	18.5	14.8[2]	24.7	7.5
LENGTH OF REINFORCEMENT (FT.)[3]	9.2	14.0	14.9	18.3	8.0
LENGTH OF REINFORCEMENT/WALL HEIGHT	0.70	0.70	0.91	0.70	N/A
WALL STATION	1+25.0	1+40.0	1+75.0	2+24.6	2+50.0
BORING	B-14	B-14	B-14	B-16	B-16
FACTOR OF SAFETY[4]					
SLIDING ($FS_{REQ.}$>1.5)	2.0	2.2	1.5	2.2	2.3
OVERTURNING ($FS_{REQ.}$>2.0)	3.5	3.8	2.9	3.9	5.0
GLOBAL STABILITY ($FS_{REQ.}$>1.3)	N/A[5]	N/A[5]	1.6	N/A[5]	N/A[5]
BEARING CAPACITY ($FS_{REQ.}$>2.5)	4.0	4.5	4.9	4.1	9.2
ALLOWABLE BEARING CAPACITY (PSF)	3,600	6,000	5,800	5,700	5,400

NOTES:

1. THE WALL HEIGHT INCLUDES AN EMBEDMENT OF 1.5 FEET.
2. THE WALL STABILITY EVALUATION INCLUDED A SURCHARGE LOAD THAT WAS EQUAL TO THE WEIGHT OF THE SOIL BEHIND THE ABUTMENT.
3. THE LENGTH OF REINFORCEMENT IS THE MINIMUM REQUIRED LENGTH.
4. $FS_{REQ.}$ ARE PRESENTED IN CHAPTER 14 OF THE BRIDGE MANUAL.
5. N/A = NOT APPLICABLE, GLOBAL SLOPE STABILITY WAS EVALUATED AT THE CRITICAL WALL LOCATION.

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH".

PLANS, ELEVATIONS AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE RETAINING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN ON SHEET 2.

DESIGN RETAINING WALL FOR A LIVE LOAD SURCHARGE OF 240 PSF.

THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30° WITHOUT CERTIFIED TEST VALUES.

ALLOWABLE WALL SYSTEMS

WALL CONCRETE PANEL M.S.E.

ULTIMATE DESIGN STRESSES:

CONCRETE MASONRY (CONCRETE VEHICLE BARRIER AND COPING) —— f'c = 3,500 P.S.I.

BAR STEEL REINFORCEMENT, GRADE 60 ———— fy = 60,000 P.S.I.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BEVEL ALL EXPOSED EDGES OF CONCRETE ¾" UNLESS NOTED OTHERWISE.

BAR STEEL REINFORCEMENT SHALL HAVE A 2" CLEAR COVER UNLESS OTHERWISE SHOWN OR NOTED.

STAIN BACK FACE OF PARAPET AND ALL EXPOSED M.S.E. WALL SURFACES, USING A LIGHT GRAY STAIN (FEDERAL STANDARD COLOR NO.36622), IN ACCORDANCE WITH THE SPECIAL PROVISIONS. STAIN TO EXTEND 1-0" MINIMUM BELOW FINISHED GRADE.

APPLY PROTECTIVE SURFACE TREATMENT TO THE TOP AND INSIDE FACE OF THE CONCRETE PARAPETS AND THE EXPOSED TOP SURFACE (6") OF ANCHOR SLAB.

ALL WALL STATIONING AND OFFSETS ARE GIVEN AT THE FRONT FACE OF THE WALLS.

THE 'NE' STATION LINE SIGNIFIES STATIONING ALONG THE FRONT FACE OF R-55-16.

THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION OF RETAINING WALL R-55-16 WITH THE N. ABUT. OF BRIDGE B-55-249

EXPANSION JOINT LOCATIONS AND DIMENSIONS AS SHOWN ARE FOR INFORMATIONAL USE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF THE EXPANSION JOINTS.

THE PLAN QUANTITY FOR THE ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF THE WALL TO THE TOP OF THE LEVELING PAD, SET AT A CONSTANT DEPTH OF 1'-6" BELOW FINISHED GRADE.

THE QUANTITY OF CONCRETE MASONRY FOR THE CAST-IN-PLACE ANCHOR SLAB AND COPING IS PAID FOR UNDER THE ITEM "CONCRETE MASONRY RETAINING WALLS".

THE QUANTITIES AND REINFORCEMENT DETAILS ARE BASED ON AN ASSUMED WALL PANEL THICKNESS OF 6 INCHES AND A 5 INCH PANEL EMBEDMENT. FOR PANEL THICKNESS AND PANEL EMBEDMENT DIFFERENT THAN THESE VALUES, THE CONTRACTOR SHALL VERIFY REINFORCEMENT BAR DETAILS AND QUANTITIES AND WILL BE RESPONSIBLE FOR ANY QUANTITY VARIATIONS.

LIST OF DRAWINGS

1. GENERAL PLAN & QUANTITIES
2. ELEVATION & DESIGN DATA
3. SUBSURFACE EXPLORATION
4. WALL DETAILS
5. ANCHOR SLAB DETAILS
6. SLOPED FACE PARAPET 'LF'
7. CONDUIT DETAILS

NO.	DATE	REVISION	BY

Plans Prepared By **WISDOT**
BUREAU OF STRUCTURES

ACCEPTED William C. Dreher LLS — 6/10/11
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE R-55-16

S.T.H. 65 OVER I.H. 94

COUNTY ST. CROIX | TOWN ~~CITY/VILLAGE~~ WARREN

DESIGN SPEC. AASHTO LRFD DESIGN SPEC. 5th EDITION

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
ARC	BLB	ARC	BLB

GENERAL PLAN & QUANTITIES

SHEET 1 OF 7

601

STRUCTURES DESIGN CONTACTS:

ALEXANDER CRABTREE (608) 266-3686
LAURA SHADEWALD (608) 267-9592

I.D. 1020-07-04

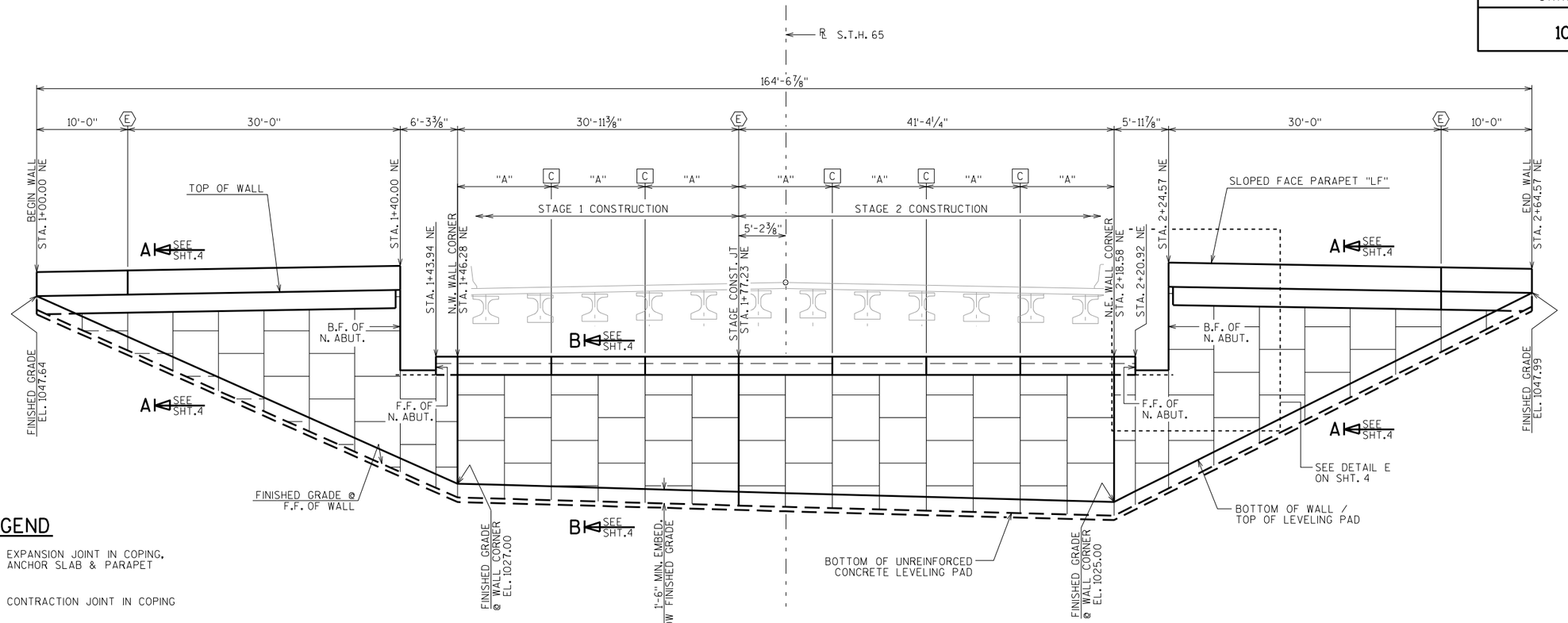
DATE: JAN. 2012

SCALE = 16

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1020-07-74



ELEVATION

(LOOKING UP-STATION)

LEGEND

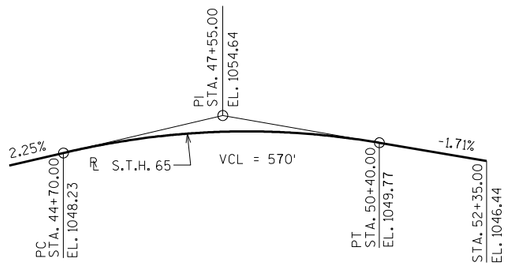
(E) EXPANSION JOINT IN COPING, ANCHOR SLAB & PARAPET

[C] CONTRACTION JOINT IN COPING

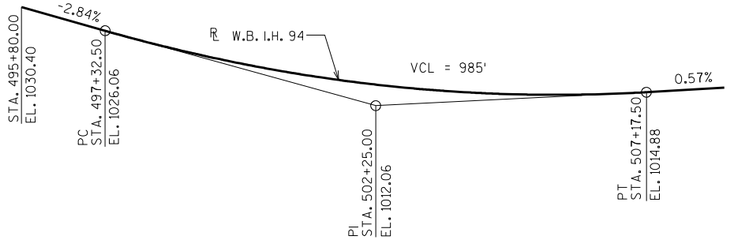
DIM "A" = 12' MAXIMUM SPACING

SOIL PARAMETERS

SOIL DESCRIPTION	FRICTION ANGLE, (DEGREES)	COHESION, (PSF)	UNIT WEIGHT, (PCF)
GRANULAR BACKFILL WITHIN THE WALL IN THE REINFORCING ZONE	30	0	120
FILL BEHIND AND BELOW THE REINFORCING ZONE	31	0	120
B-14, STA. 50+75			
SAND, RED TO BROWN, FINE TO MEDIUM, LITTLE SILT ELEVATION 1023.8 FEET TO 1019.8 FEET	33	0	110
SILT, DARK BROWN, SOME CLAY ELEVATION 1019.8 FEET TO 1017.8 FEET	0	2,500	120
SAND, BROWN, FINE TO MEDIUM, LITTLE SILT ELEVATION 1017.8 FEET TO 999.3 FEET	34	0	110
SANDSTONE BEDROCK ELEVATION 999.3 FEET TO 989.8 FEET	0	25,000	140
B-16, STA. 51+11			
SAND, BROWN, FINE TO COURSE, LITTLE GRAVEL ELEVATION 1045.0 FEET TO 1030.0 FEET	33	0	110
SAND, RED, FINE TO COURSE, LITTLE SILT, LITTLE GRAVEL ELEVATION 1030.0 FEET TO 1020.0 FEET	35	0	115
SILT, BROWN TO GRAY ELEVATION 1020.0 FEET TO 1017.5 FEET	0	2,500	110
SAND, BROWN, FINE TO COURSE, TRACE SILT ELEVATION 1017.5 FEET TO 1016.0 FEET	35	0	120
SAND, LIGHT BROWN, FINE ELEVATION 1016.0 FEET TO 1013.0 FEET	36	0	120
SANDSTONE BEDROCK ELEVATION 1013.0 FEET TO 1004.5 FEET	0	25,000	140



PROFILE GRADE LINE S.T.H. 65



PROFILE GRADE LINE W.B. I.H. 94

TABLE OF WALL ELEVATIONS

DESCRIPTION	WALL STATIONS	TOP OF WALL EL.	FINISHED GRADE EL. @ F.F. WALL
BEGIN WALL	1+00.00 NE	1047.64	1047.64
WALL	1+25.00 NE	1048.07	1036.49
WALL	1+40.00 NE	1048.32	1029.80
WALL	1+40.00 NE	1039.48	1029.80
WALL	1+43.94 NE	1039.48	1028.05
WALL	1+43.94 NE	1040.98	1028.05
WALL	1+46.28 NE	1040.98	1027.00
WALL	1+50.00 NE	1040.98	1026.90
WALL	1+75.00 NE	1040.98	1026.18
WALL	1+77.23 NE	1040.98	1026.11
WALL	1+82.43 NE	1040.98	1025.97
WALL	2+00.00 NE	1040.98	1025.49
WALL	2+18.58 NE	1040.98	1025.00
WALL	2+20.92 NE	1040.98	1026.17
WALL	2+20.92 NE	1039.48	1026.17
WALL	2+24.57 NE	1039.48	1027.99
WALL	2+24.57 NE	1048.67	1027.99
WALL	2+25.00 NE	1048.66	1028.21
WALL	2+50.00 NE	1048.23	1040.71
END WALL	2+64.57 NE	1047.99	1047.99

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-55-16

DRAWN BY ARC | PLANS CK'D. BLB

ELEVATION & DESIGN DATA

SHEET 2

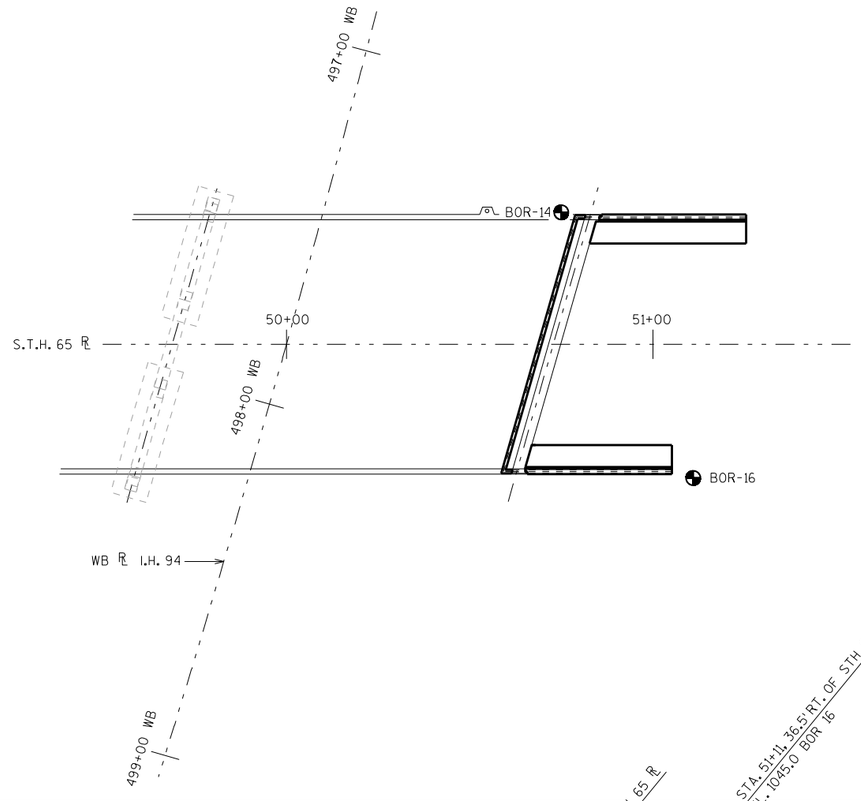
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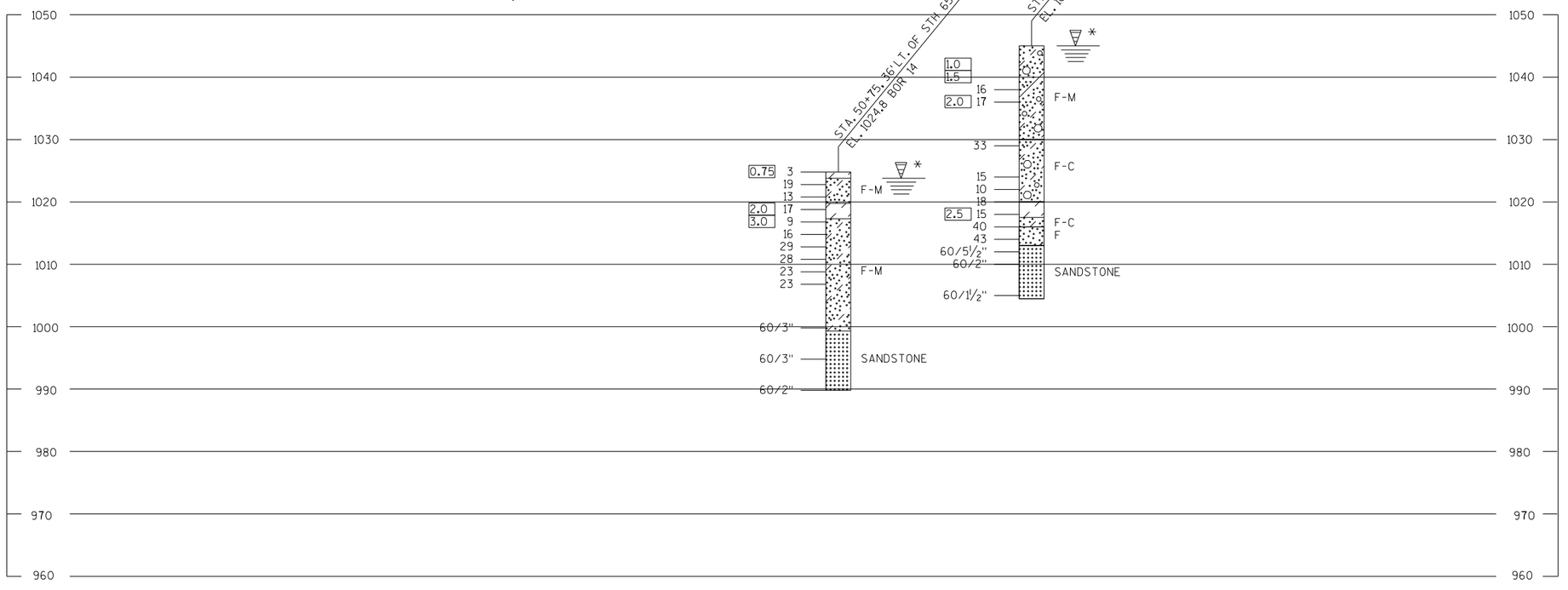
SCALE = 6.4

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STH 65 OVER IH 94
HUDSON - MENOMINEE





* THE GROUND WATER ELEVATION WAS DETERMINED FROM WHERE THE SOIL SAMPLE WAS DESCRIBED AS WET.

STATE PROJECT NUMBER

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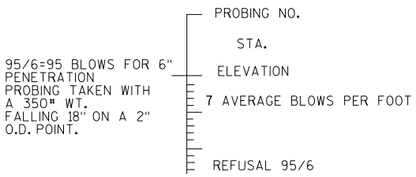
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

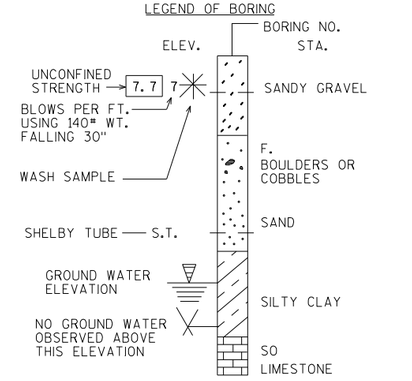
MATERIAL SYMBOLS

TOPSOIL, SILT, SANDSTONE
SAND, PEAT, LIMESTONE
GRAVEL, CLAY, IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-55-16

DRAWN BY PR | PLANS CK'D. BLB

SUBSURFACE EXPLORATION

SHEET 3

603

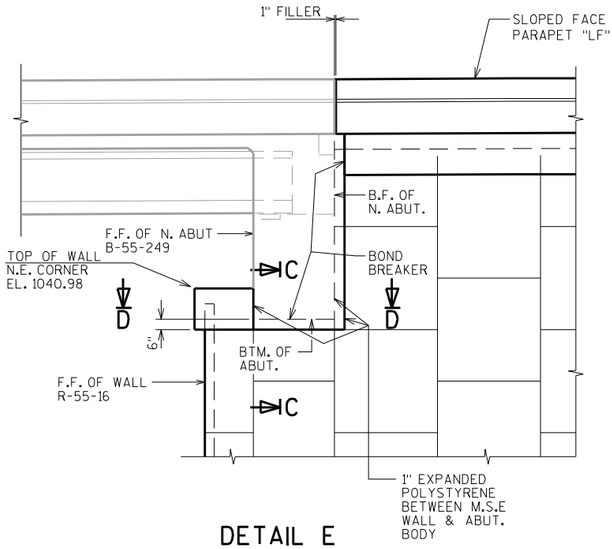
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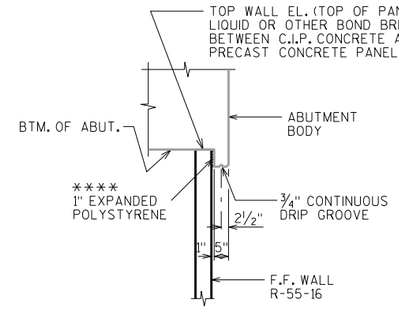
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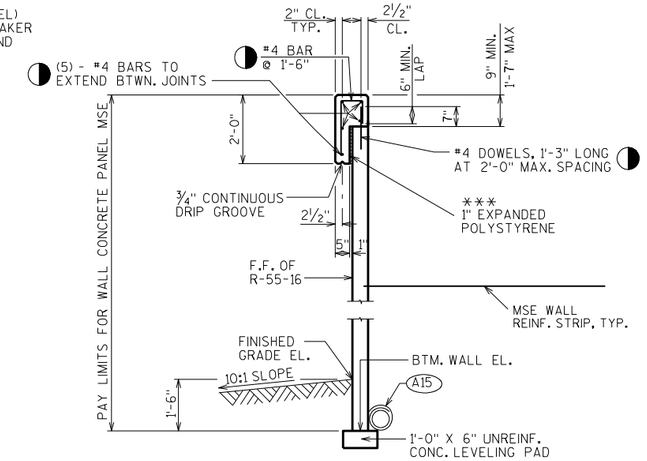


DETAIL E



SECTION C-C

**** INCIDENTAL TO THE BID ITEM CONCRETE MASONRY BRIDGES (B-55-249)

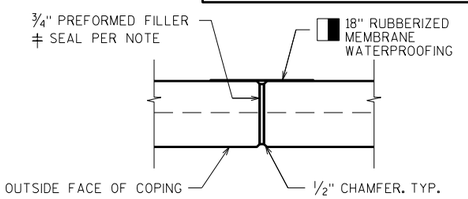


SECTION B-B

(SEE SECTION CALLOUT ON SHT. 2)

◑ BAR STEEL REINFORCEMENT IN C.I.P. COPING TO BE INCLUDED IN THE BID ITEM WALL CONCRETE PANEL M.S.E.

*** INCIDENTAL TO THE BID ITEM CONCRETE MASONRY RETAINING WALLS.

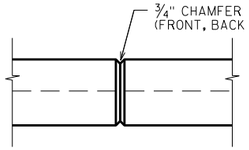


COPING EXPANSION DETAIL

DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 50'

◨ MEMBRANE WATERPROOFING TO EXTEND FROM TOP OF COPING TO 6" BELOW TOP OF PANELS

‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONC.)



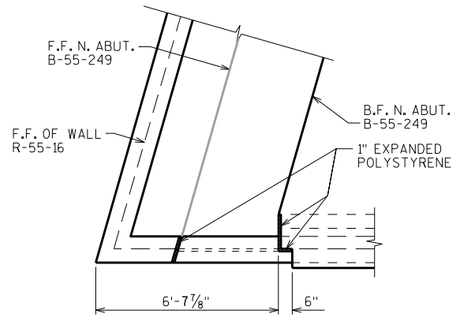
COPING CONTRACTION JOINT

DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 12'

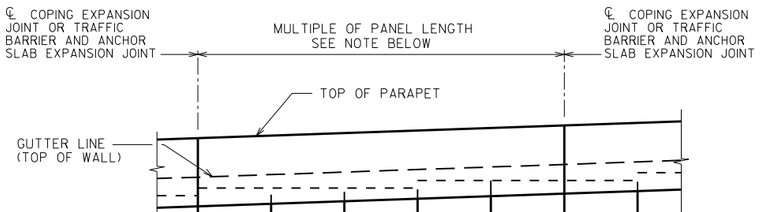
SECTION A-A

(SEE SECTION CALLOUT ON SHT. 2)

(A15) PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SCREEN REQUIRED.

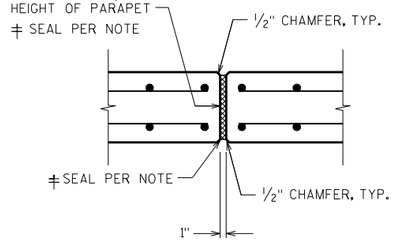


SECTION D-D



NOTE:
ALL JOINTS SHALL BE LOCATED AS SHOWN ON THE WALL ELEVATIONS AND MUST COINCIDE WITH PANEL JOINT ON FRONT FACE.

C.I.P. CONCRETE VEHICLE BARRIER PARTIAL ELEVATION



⊛ TRAFFIC BARRIER EXPANSION JOINT DETAIL

⊛ EXPANSION JOINTS TO BE SPACED AT A MINIMUM OF 20' AND A MAXIMUM OF 30'. LOCATE EXPANSION JOINTS OVER WALL JOINTS. DO NOT RUN BAR STEEL THRU JOINT. EXCEPT FOR DOWEL BARS. JOINT TO EXTEND FULL DEPTH OF PARAPET AND ANCHOR SLAB.

‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONC.)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-55-16

DRAWN BY ARC | PLANS CK'D. BLB

WALL DETAILS

SHEET 4

604

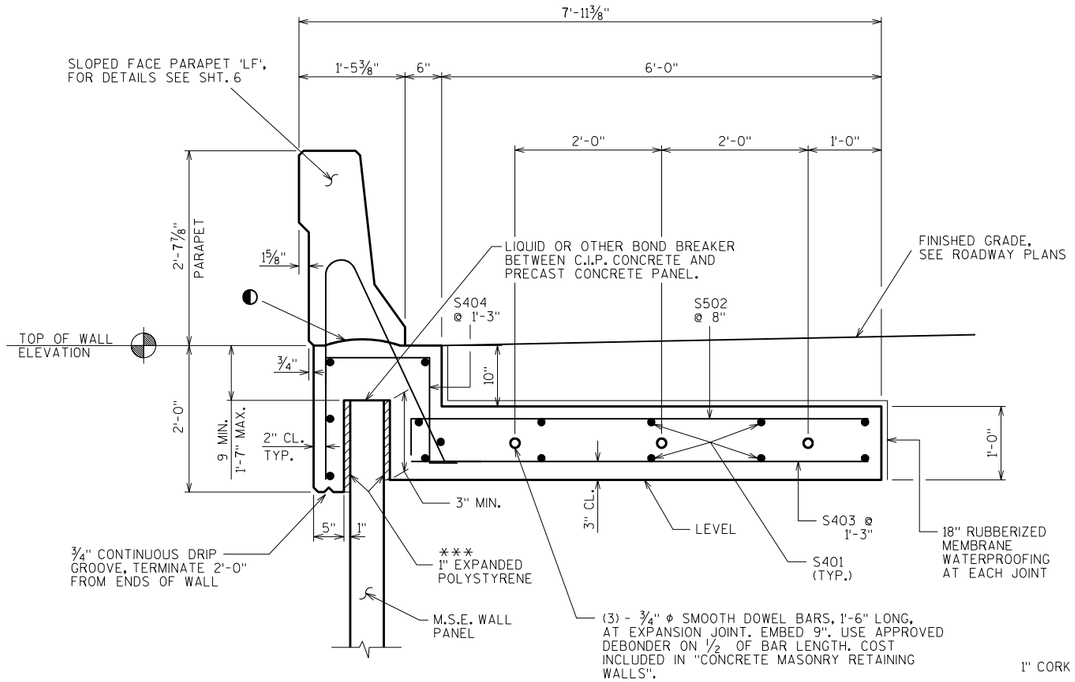
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TYPICAL SECTION OF ANCHOR SLAB

◐ CONST. JOINT - STRIKE OFF AS SHOWN.

OPTIONAL CONSTRUCTION JOINTS IN THE PARAPET AND ANCHOR SLAB BETWEEN EXPANSION JOINTS MAY BE USED. RUN BAR REINFORCEMENT THRU THE JOINT. LAP LONGITUDINAL BARS IN PARAPET A MINIMUM OF 1'-9". DEFINE CONSTRUCTION JOINT WITH A ¾" "V" GROOVE.

LAP LONGITUDINAL #4 BARS A MINIMUM OF 1'-0".

ALL BAR STEEL SHOULD BE EPOXY COATED.

CONCRETE QUANTITY BASED ON 3" PANEL EMBEDMENT & 5½" PANEL THICKNESS.

*** INCIDENTAL TO THE BID ITEM CONCRETE MASONRY RETAINING WALLS.

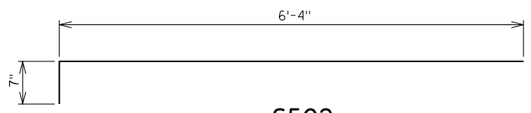
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

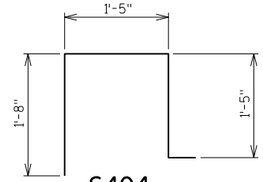
BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
S401	X	15	80'-0"			CONC. BARRIER - LONGITUDINAL
S502	X	124	6'-10"	X		CONC. BARRIER - TRANSVERSE
S403	X	68	6'-4"			CONC. BARRIER - TRANSVERSE
S404	X	68	4'-8"	X		CONC. BARRIER - VERTICAL

NUMBER REQUIRED AND LENGTH SHOWN FOR QUANTITY PURPOSES ONLY. CONTRACTOR TO DETERMINE ACTUAL LENGTHS AND NUMBER OF S401 BARS AFTER M.S.E. PANELS HAVE BEEN LAID OUT BY THE WALL SUPPLIER. THE PARAPET AND ANCHOR SLAB EXPANSION JOINTS MUST COINCIDE WITH PANEL JOINT ON FRONT FACE. PROVIDE 2" CLEAR COVER AT EXPANSION JOINTS.

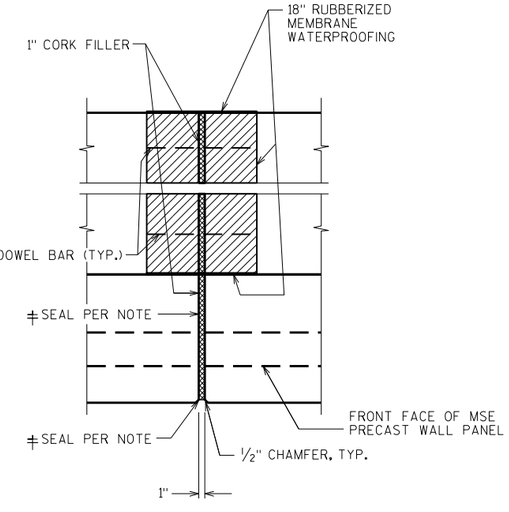
NOTE: ASSUMED PANEL THICKNESS OF 5½" USED WHEN DETERMINING BAR DIMENSIONS.



S502



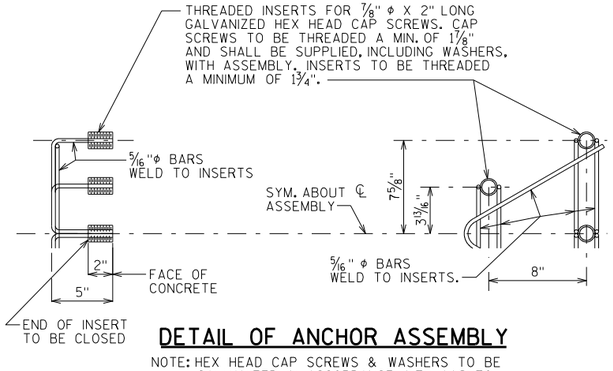
S404



⊛ ANCHOR SLAB EXPANSION JOINT DETAIL

⊛ EXPANSION JOINTS TO BE SPACED AT A MINIMUM OF 20' AND A MAXIMUM OF 30'. LOCATE EXPANSION JOINTS OVER WALL JOINTS. DO NOT RUN BAR STEEL THRU JOINT. EXCEPT FOR DOWEL BARS. JOINT TO EXTEND FULL DEPTH OF PARAPET AND ANCHOR SLAB.

‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONC.)



DETAIL OF ANCHOR ASSEMBLY

NOTE: HEX HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

ASSEMBLY SHALL BE BID ITEM "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD", EACH.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-55-16

DRAWN BY ARC | PLANS CK'D. BLB

ANCHOR SLAB DETAILS

SHEET 5

605

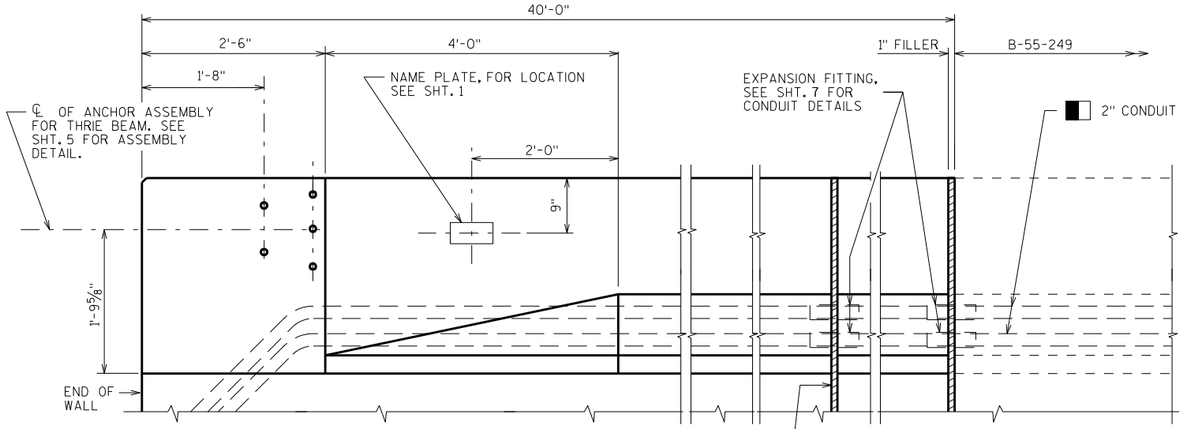
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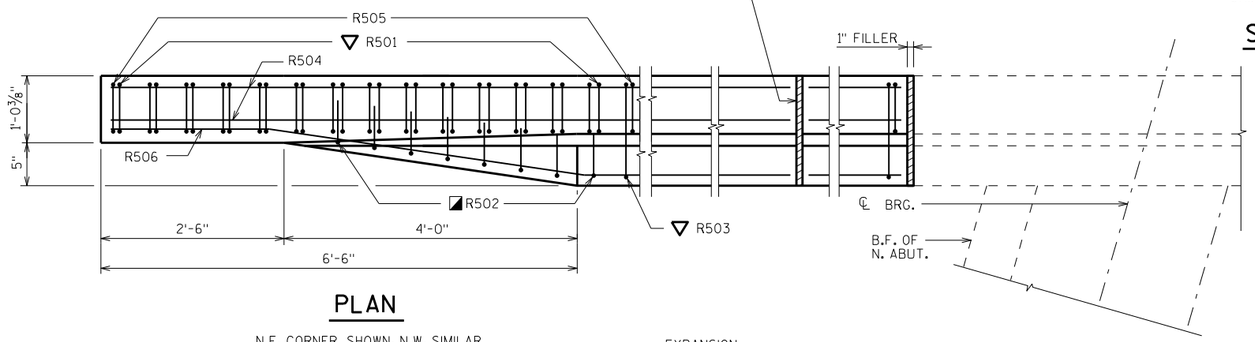
STATE PROJECT NUMBER

1020-07-74



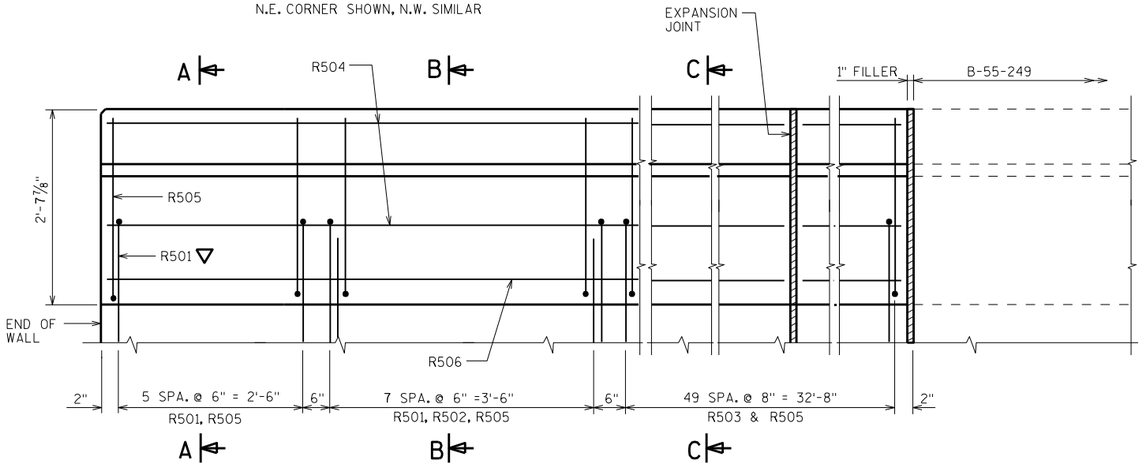
INSIDE ELEVATION

N.E. CORNER SHOWN, N.W. SIMILAR



PLAN

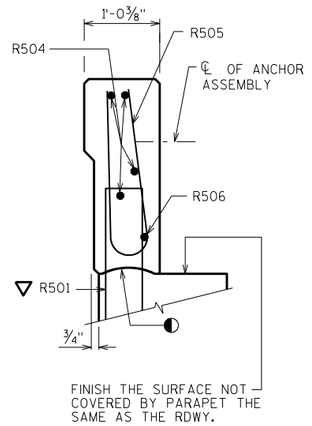
N.E. CORNER SHOWN, N.W. SIMILAR



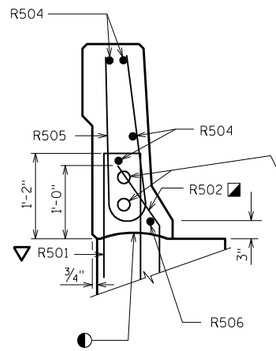
OUTSIDE ELEVATION

N.W. CORNER SHOWN, N.E. SIMILAR

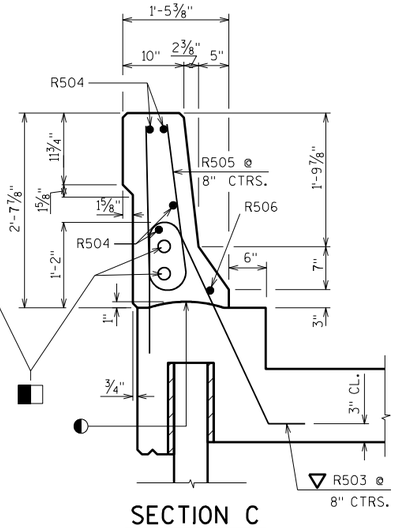
■ USE (2) 2" RIGID METALLIC CONDUIT THRU PARAPET. RIGID METALLIC CONDUIT SHALL EXTEND 5'-0" INTO PARAPET ON DECK SIDE TO A MINIMUM DISTANCE BEYOND END OF ANCHOR SLAB. (FOR GROUNDING PURPOSES.)



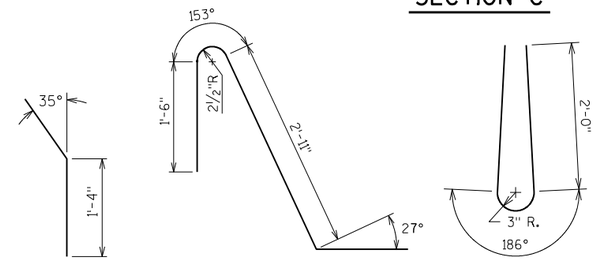
SECTION A



SECTION B



SECTION C



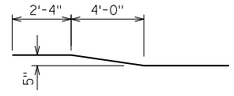
R501 R502 R503 R505

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
R501	X	28	4'-7"	X		PARAPET VERTICAL
R502	X	16	2'-4"	X		PARAPET VERTICAL
R503	X	102	5'-7"	X		PARAPET VERTICAL
R504	X	8	39'-8"			PARAPET LONGITUDINAL
R505	X	130	4'-10"	X		PARAPET VERTICAL
R506	X	2	39'-8"	X		PARAPET LONGITUDINAL

NUMBER REQUIRED AND LENGTH SHOWN FOR QUANTITY PURPOSES ONLY. CONTRACTOR TO DETERMINE ACTUAL LENGTHS AND NUMBER OF R504 & R506 BARS AFTER M.S.E. PANELS HAVE BEEN LAID OUT BY THE WALL SUPPLIER. THE PARAPET, ANCHOR SLAB AND COPING EXPANSION JOINTS MUST COINCIDE WITH PANEL JOINT ON FRONT FACE. PROVIDE 2" CLEAR COVER AT EXPANSION JOINTS.



R506

◐ CONST. JOINT - STRIKE OFF AS SHOWN.

◪ USE CARE TO PLACE R502 BARS CORRECTLY ALONG TRANSITION OF PARAPET.

▽ R501 AND R503 BARS TO BE TIED TO ANCHOR SLAB STEEL BEFORE ANCHOR SLAB IS POURED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-55-16

DRAWN BY ARC | PLANS CK'D. BLB

SLOPED FACE PARAPET 'LF'

SHEET 6

606

SCALE = 1

8

8

STATE PROJECT NUMBER
1020-07-74

USE (2) - 2" RIGID NONMETALLIC CONDUIT.

USE (2) - 2" RIGID METALLIC CONDUIT WITH TEMPORARY END CAPS.

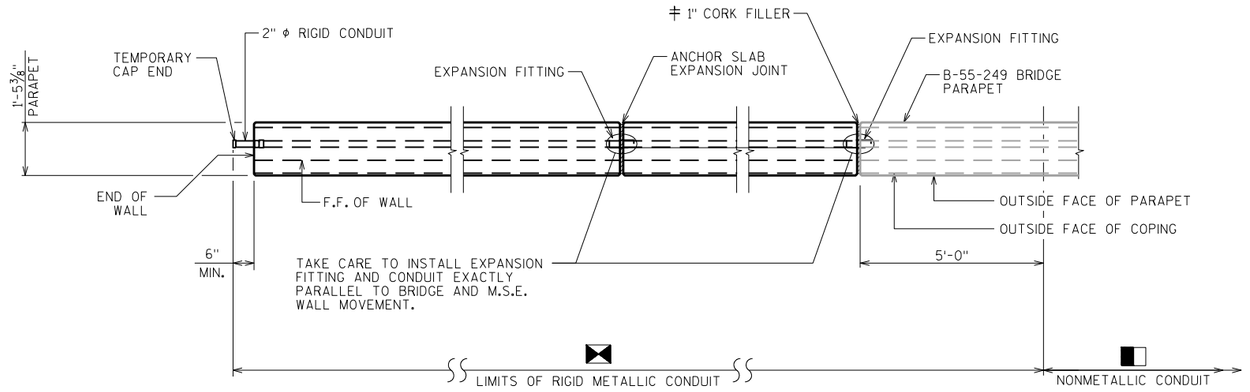
NOTES

BID ITEM SHALL BE:
"CONDUIT RIGID METALLIC 2-INCH".

APPROVED MANUFACTURER OR EQUIVALENT - EXPANSION FITTING:
O-Z/GEDNEY TYPE AX-200 AND BONDING JUMPER (4" TOTAL CONDUIT MOVEMENT).

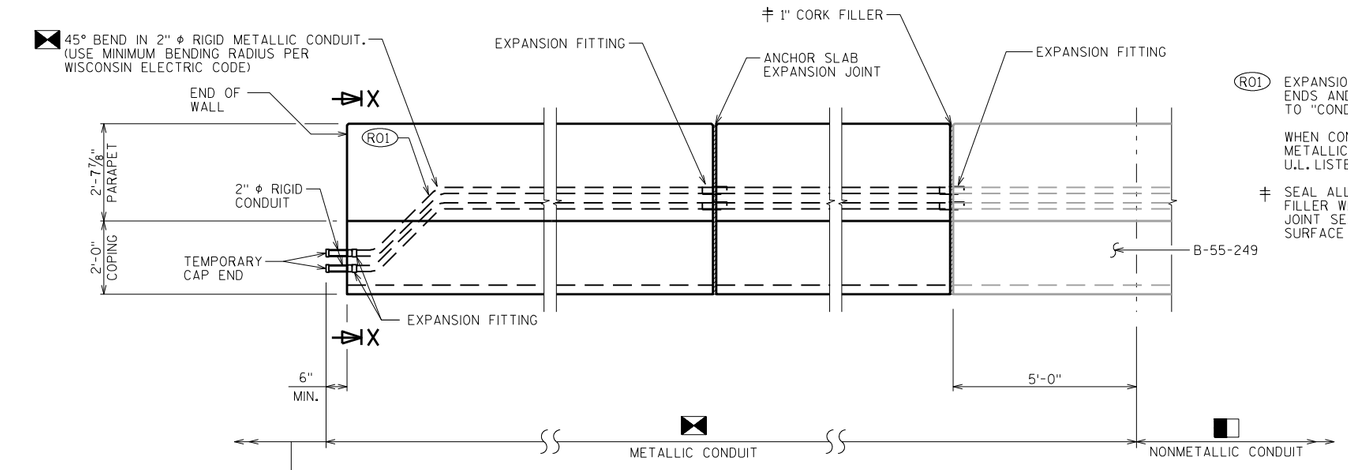
EXPANSION FITTINGS, ANGLES AND ADAPTER FITTINGS TO BE INCIDENTAL TO "CONDUIT RIGID METALLIC 2-INCH".

WHEN CONNECTING NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS U.L. LISTED FOR ELECTRICAL USE SHALL BE USED.



PLAN

S.E. CORNER SHOWN, S.W. CORNER SIMILAR



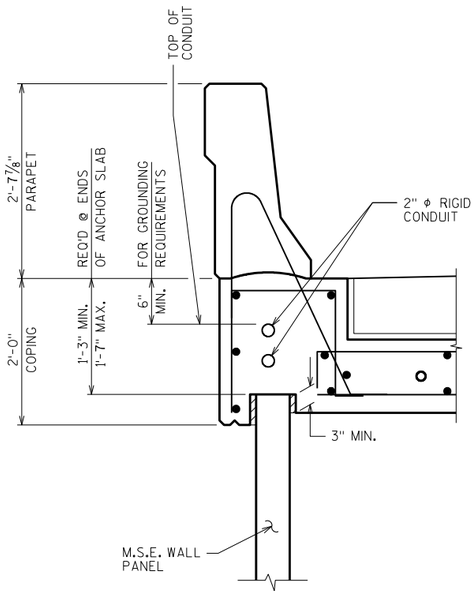
OUTSIDE ELEVATION

S.E. CORNER SHOWN, S.W. CORNER SIMILAR

R01 EXPANSION FITTINGS, ANGLES, TEMPORARY CAP ENDS AND ADAPTER FITTING TO BE INCIDENTAL TO "CONDUIT RIGID METALLIC 2-INCH".

WHEN CONNECTING NONMETALLIC CONDUIT TO METALLIC CONDUIT ONLY ADAPTER FITTINGS U.L. LISTED FOR ELECTRICAL USE SHALL BE USED.

‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONC.)



SECTION X-X

CONDUIT DETAILS AT END OF WALL

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-55-16

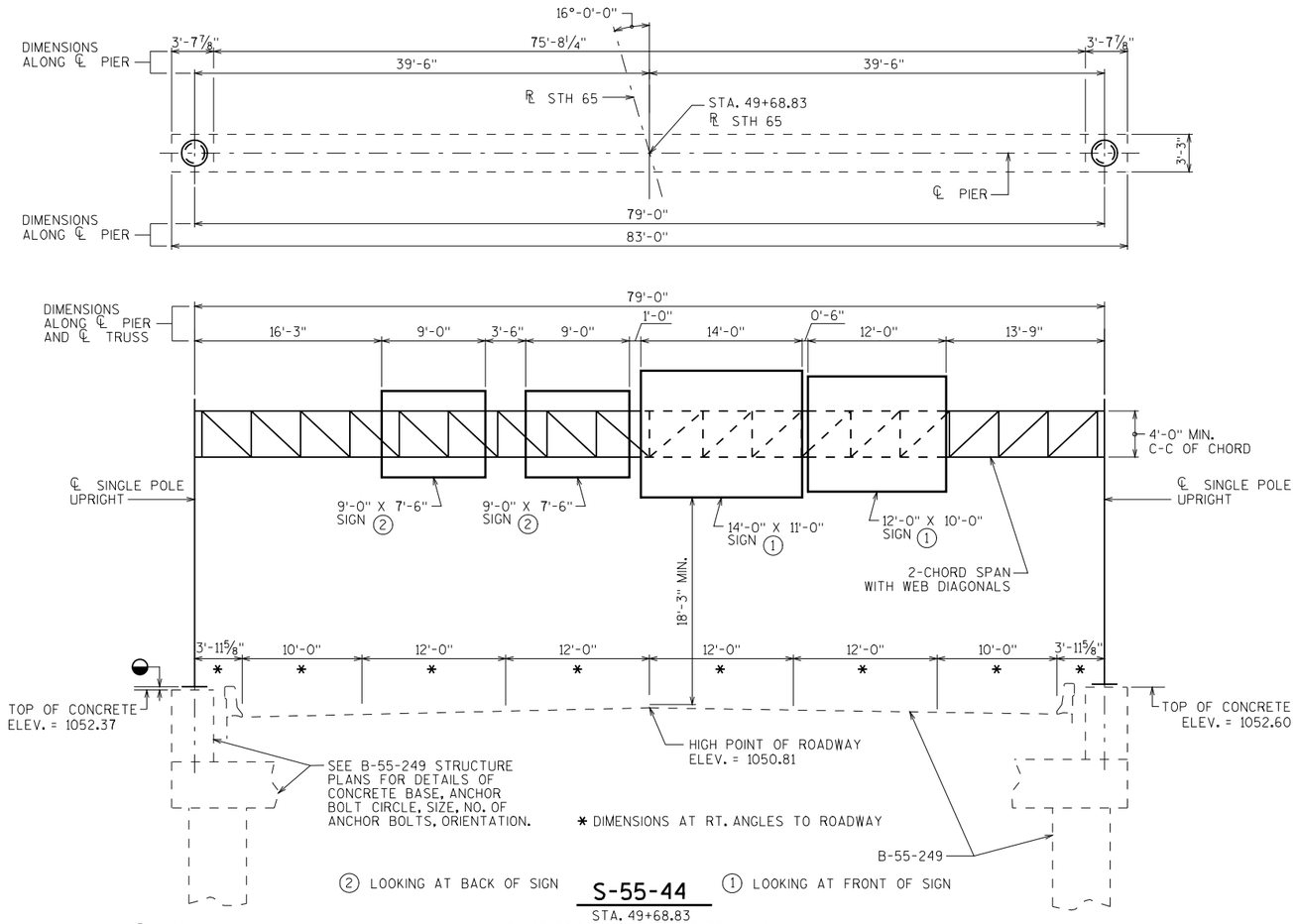
DRAWN BY ARC | PLANS CK'D. BLB

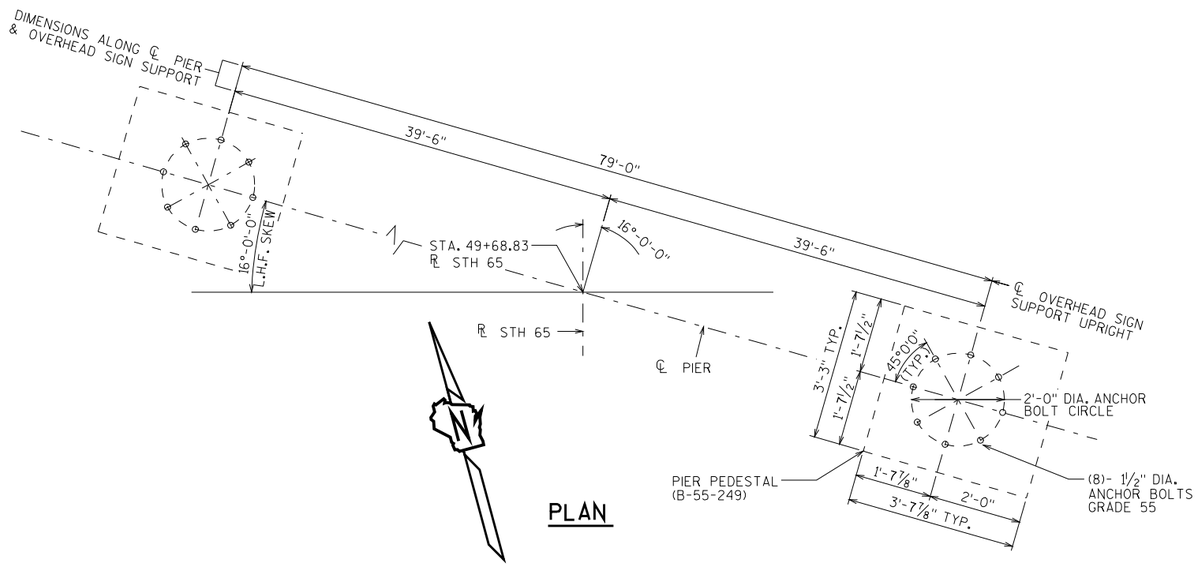
CONDUIT DETAILS

SHEET 7

607

SCALE = 2.0





STATE PROJECT NUMBER

1020-07-74

DESIGN DATA

OVERHEAD SIGN SUPPORT	DESIGN SIGN AREA (SQ. FT.)	MAX. SIGN DEPTH
S-55-44	409	11'-0"

HEIGHT AND EXPOSURE FACTOR, K_Z = 1.10

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

HANDHOLES ARE NOT REQUIRED.

PROVIDE AN IDENTIFICATION PLAQUE FOR ALL OVERHEAD SIGN SUPPORTS, TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "OVERHEAD SIGN SUPPORT".

DESIGN NEW OVERHEAD SIGN SUPPORTS ACCORDING TO THE LATEST EDITION OF, AND SUPPLEMENTAL TO THE STATE OF WISCONSIN "STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION" AND AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS: 2001 THRU 2006 INTERIMS."

SIZE THE ANCHOR BOLT / TEMPLATE ASSEMBLY TO FIT WITHIN THE BAR CAGE OF THE FOOTING BASE SHOWN IN THE CONTRACT PLANS FOR BRIDGE STRUCTURE B-55-249 IN ADDITION TO MEETING ALL APPLICABLE DESIGN REQUIREMENTS FOR THE DESIGN OF THE UPRIGHT BASE CONNECTION.

SIGNS OR BLANKS SHALL BE INSTALLED ON THE OVERHEAD SIGN SUPPORT AT THE TIME OF ERECTION. BLANKS, IF USED, SHALL BE OF THE SAME SIZE AND LOCATION AS PERMANENT SIGNS.

UPRIGHTS AND CHORDS MAY BE FABRICATED WITH AN OPTIONAL TAPER.

ANCHOR BOLTS, CONCRETE AND REINFORCEMENT IN THE BASE, SIGNS, AND SIGN MOUNTING HARDWARE ARE NOT A PART OF THIS STRUCTURE.

REFER TO A4-7 SIGN PLATE FOR ATTACHMENT OF SIGNS TO THE OVERHEAD SIGN SUPPORT.

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEM	UNIT	TOTAL
641.8100	OVERHEAD SIGN SUPPORT S-55-44	LS	1

STRUCTURE DESIGN CONTACT:

KENT BAHLER (608) 266-8490
ALEX CRABTREE (608) 266-3686

NO.	DATE	REVISION	BY

Plans Prepared By **WISDOT**
BUREAU OF STRUCTURES

William C. Drecher LLS — 6/10/11
ACCEPTED — CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE S-55-44

OVERHEAD SIGN SUPPORT STH65 OVER IH 94

COUNTY ST. CROIX	TOWN ~~CITY / VILLAGE~~ WARREN
DESIGN SPEC. AASHTO LRFD DESIGN SPEC. 5th EDITION	LOAD 90 M.P.H. 3-SEC SP.
DESIGNED BY KAB / DESIGN CK'D. ARC / DRAWN BY ARC	PLANS CK'D. KAB

GENERAL PLAN

SHEET 1 OF 1

608

I.D. 1020-07-74

DATE: APRIL '11

SCALE = 6.4

8

8

EARTHWORK IH 94 STAGE 1

STATION	AREA (SF)				INCREMENTAL VOL (CY)				CUMULATIVE VOL (CY)			
	CUT	ROCK CUT	FILL	SELECT FILL	CUT	ROCK CUT	FILL	SELECT FILL	CUT	ROCK CUT	FILL	SELECT FILL
400+00.0	0.0	0.0	0.0	0.0								
401+00.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
402+00.0	16.0	0.0	0.0	0.0	30	0	0	0	30	0	0	0
403+00.0	15.9	0.0	0.0	0.0	59	0	0	0	89	0	0	0
404+00.0	16.1	0.0	0.0	0.0	59	0	0	0	148	0	0	0
405+00.0	15.5	0.0	0.0	0.0	58	0	0	0	206	0	0	0
406+00.0	20.2	0.0	0.0	0.0	66	0	0	0	272	0	0	0
407+00.0	20.2	0.0	1.1	0.0	75	0	2	0	347	0	2	0
408+00.0	148.9	0.0	2.3	0.0	313	0	6	0	660	0	8	0
409+00.0	245.0	0.0	10.9	0.0	729	0	24	0	1389	0	32	0
410+00.0	339.0	0.0	8.5	0.0	1081	0	36	0	2470	0	68	0
411+00.0	429.6	0.0	3.9	0.0	1423	0	23	0	3893	0	91	0
412+00.0	423.3	0.0	7.9	0.0	1579	0	22	0	5472	0	113	0
413+00.0	205.2	0.0	14.0	0.0	1164	0	41	0	6636	0	154	0
414+00.0	14.6	0.0	36.7	43.9	407	0	94	81	7043	0	248	81
414+55.0	12.7	0.0	109.6	52.0	28	0	271	178	7071	0	519	259
415+00.0	11.6	0.0	110.7	53.2	20	0	408	195	7091	0	927	454
415+25.1	11.7	0.0	110.9	54.0	11	0	410	198	7102	0	1337	652
415+85.0	11.9	0.0	67.2	48.3	26	0	330	189	7128	0	1667	841
416+00.0	12.3	0.0	37.8	45.0	7	0	194	173	7135	0	1861	1014
417+00.0	245.2	0.0	0.0	17.1	477	0	70	115	7612	0	1931	1129
418+00.0	452.4	0.0	0.0	10.3	1292	0	0	51	8904	0	1931	1180
419+00.0	513.4	0.0	0.0	7.9	1789	0	0	34	10693	0	1931	1214
420+00.0	524.0	0.0	0.0	6.9	1921	0	0	27	12614	0	1931	1241
421+00.0	386.1	0.0	0.0	11.4	1685	0	0	34	14299	0	1931	1275
422+00.0	547.9	0.0	0.0	19.2	1730	0	0	57	16029	0	1931	1332
422+49.4	508.6	0.0	0.0	27.2	967	0	0	86	16996	0	1931	1418
423+00.0	384.4	0.0	40.0	42.1	836	0	74	128	17832	0	2005	1546
424+00.0	73.7	0.0	343.3	42.9	848	0	710	157	18680	0	2715	1703
425+00.0	34.3	0.0	537.2	37.3	200	0	1631	149	18880	0	4346	1852
425+20.0	37.0	0.0	547.8	37.0	26	0	2009	138	18906	0	6355	1990
425+90.0	54.5	0.0	543.3	39.4	119	0	2021	142	19025	0	8376	2132
426+00.0	65.3	0.0	542.0	39.1	22	0	2010	145	19047	0	10386	2277
427+00.0	44.8	0.0	513.5	38.7	204	0	1955	144	19251	0	12341	2421
427+75.0	84.5	0.0	437.3	36.0	180	0	1761	138	19431	0	14102	2559
428+00.0	121.0	0.0	408.8	33.9	95	0	1567	129	19526	0	15669	2688
429+00.0	22.4	0.0	489.2	33.2	265	0	1663	124	19791	0	17332	2812
430+00.0	12.0	0.0	603.6	27.7	64	0	2024	113	19855	0	19356	2925
431+00.0	134.6	0.0	223.3	33.1	271	0	1531	113	20126	0	20887	3038
432+00.0	67.6	0.0	89.5	38.3	374	0	579	132	20500	0	21466	3170
433+00.0	86.0	0.0	0.0	20.7	284	0	166	109	20784	0	21632	3279
434+00.0	103.4	0.0	0.0	17.4	351	0	0	71	21135	0	21632	3350
435+00.0	69.4	0.0	0.0	22.9	320	0	0	75	21455	0	21632	3425
436+00.0	27.9	0.0	0.0	18.7	180	0	0	77	21635	0	21632	3502
437+00.0	62.5	0.0	0.0	18.9	167	0	0	70	21802	0	21632	3572
438+00.0	77.1	0.0	0.0	14.7	258	0	0	62	22060	0	21632	3634
439+00.0	35.3	0.0	0.0	15.6	208	0	0	56	22268	0	21632	3690
440+00.0	28.6	0.0	0.0	11.2	118	0	0	50	22386	0	21632	3740
441+00.0	217.2	0.0	0.0	15.4	455	0	0	49	22841	0	21632	3789
442+00.0	234.8	0.0	0.0	14.6	837	0	0	56	23678	0	21632	3845

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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	EARTHWORK	SHEET 609	E

EARTHWORK IH 94 STAGE 1

STATION	AREA (SF)				INCREMENTAL VOL (CY)				CUMULATIVE VOL (CY)			
	CUT	ROCK CUT	FILL	SELECT FILL	CUT	ROCK CUT	FILL	SELECT FILL	CUT	ROCK CUT	FILL	SELECT FILL
443+00.0	220.0	0.0	0.0	12.3	842	0	0	50	24520	0	21632	3895
444+00.0	143.9	0.0	0.0	23.6	674	0	0	66	25194	0	21632	3961
445+00.0	75.3	0.0	0.0	35.4	406	0	0	109	25600	0	21632	4070
446+00.0	9.3	0.0	73.9	64.6	157	0	137	185	25757	0	21769	4255
447+00.0	9.8	0.0	180.1	65.8	35	0	470	241	25792	0	22239	4496
447+50.0	8.9	0.0	134.1	68.9	17	0	582	249	25809	0	22821	4745
448+00.0	72.0	0.0	52.0	65.5	75	0	345	249	25884	0	23166	4994
449+00.0	18.8	0.0	0.0	31.1	168	0	96	179	26052	0	23262	5173
450+00.0	90.8	0.0	0.0	12.6	203	0	0	81	26255	0	23262	5254
451+00.0	119.1	0.0	0.0	12.0	389	0	0	46	26644	0	23262	5300
452+00.0	105.9	0.0	0.0	13.5	417	0	0	47	27061	0	23262	5347
453+00.0	87.9	0.0	0.0	16.0	359	0	0	55	27420	0	23262	5402
454+00.0	74.0	0.0	0.0	17.2	300	0	0	62	27720	0	23262	5464
455+00.0	82.0	0.0	0.0	7.9	289	0	0	46	28009	0	23262	5510
456+00.0	18.6	0.0	0.0	14.9	186	0	0	42	28195	0	23262	5552
457+00.0	11.9	0.0	0.0	26.0	56	0	0	76	28251	0	23262	5628
458+00.0	13.0	0.0	0.0	27.0	46	0	0	98	28297	0	23262	5726
459+00.0	13.5	0.0	77.3	0.0	49	0	143	50	28346	0	23405	5776
460+00.0	13.0	0.0	76.4	0.0	49	0	285	0	28395	0	23690	5776
461+00.0	12.2	0.0	86.0	0.0	47	0	301	0	28442	0	23991	5776
462+00.0	12.4	0.0	154.0	0.0	45	0	445	0	28487	0	24436	5776
463+00.0	11.2	0.0	283.1	0.0	44	0	809	0	28531	0	25245	5776
464+00.0	11.9	0.0	439.0	0.0	43	0	1337	0	28574	0	26582	5776
465+00.0	11.9	0.0	450.2	0.0	44	0	1647	0	28618	0	28229	5776
466+00.0	11.0	0.0	418.7	0.0	42	0	1609	0	28660	0	29838	5776
467+00.0	10.9	0.0	534.1	0.0	41	0	1765	0	28701	0	31603	5776
468+00.0	11.6	0.0	537.4	0.0	42	0	1984	0	28743	0	33587	5776
469+00.0	11.0	0.0	549.8	13.5	42	0	2013	25	28785	0	35600	5801
470+00.0	12.3	0.0	519.0	35.9	43	0	1979	91	28828	0	37579	5892
471+00.0	11.1	0.0	646.7	84.9	43	0	2159	224	28871	0	39738	6116
472+00.0	11.9	0.0	514.2	104.9	43	0	2150	351	28914	0	41888	6467
473+00.0	11.4	0.0	385.5	125.9	43	0	1666	427	28957	0	43554	6894
474+00.0	12.8	0.0	340.2	150.1	45	0	1344	511	29002	0	44898	7405
474+85.0	12.9	0.0	192.6	183.3	40	0	987	617	29042	0	45885	8022
475+00.0	12.5	0.0	130.4	194.7	7	0	598	700	29049	0	46483	8722
476+00.0	493.0	211.3	29.7	0.0	936	391	296	360	29985	391	46779	9082
477+00.0	880.2	684.0	9.6	0.0	2543	1658	73	0	32528	2049	46852	9082
478+00.0	918.7	612.6	11.8	0.0	3331	2401	40	0	35859	4450	46892	9082
479+00.0	512.1	574.5	9.3	0.0	2650	2198	39	0	38509	6648	46931	9082
480+00.0	435.6	542.8	6.9	0.0	1755	2069	30	0	40264	8717	46961	9082
481+00.0	821.9	1091.1	0.7	0.0	2329	3026	14	0	42593	11743	46975	9082
482+00.0	2259.7	1287.8	0.0	0.0	5707	4405	1	0	48300	16148	46976	9082
483+00.0	2000.0	1261.4	1.6	0.0	7888	4721	3	0	56188	20869	46979	9082
484+00.0	858.1	2003.3	16.3	0.0	5293	6046	33	0	61481	26915	47012	9082
485+00.0	40.5	0.0	2.5	0.0	1664	3710	35	0	63145	30625	47047	9082
486+00.0	38.5	0.0	4.9	0.0	146	0	14	0	63291	30625	47061	9082

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EARTHWORK IH 94 STAGE 1

STATION	AREA (SF)				INCREMENTAL VOL (CY)				CUMULATIVE VOL (CY)			
	CUT	ROCK CUT	FILL	SELECT FILL	CUT	ROCK CUT	FILL	SELECT FILL	CUT	ROCK CUT	FILL	SELECT FILL
487+00.0	42.9	0.0	3.2	0.0	151	0	15	0	63442	30625	47076	9082
488+00.0	58.8	0.0	2.6	0.0	188	0	11	0	63630	30625	47087	9082
489+00.0	101.9	0.0	5.8	0.0	298	0	15	0	63928	30625	47102	9082
490+00.0	25.9	0.0	63.3	0.0	237	0	128	0	64165	30625	47230	9082
491+00.0	10.7	0.0	38.6	128.8	68	0	189	239	64233	30625	47419	9321
492+00.0	35.7	0.0	58.0	100.8	86	0	179	425	64319	30625	47598	9746
493+00.0	38.6	0.0	31.3	70.2	137	0	165	317	64456	30625	47763	10063
494+00.0	49.7	0.0	25.2	41.8	163	0	105	207	64619	30625	47868	10270
495+00.0	54.5	0.0	5.0	19.4	193	0	56	113	64812	30625	47924	10383
496+00.0	63.3	0.0	0.0	0.3	218	0	9	36	65030	30625	47933	10419
497+00.0	112.3	0.0	0.0	0.0	325	0	0	1	65355	30625	47933	10420
498+00.0	127.4	0.0	0.0	0.0	444	0	0	0	65799	30625	47933	10420
499+00.0	116.4	0.0	0.0	0.0	452	0	0	0	66251	30625	47933	10420
500+00.0	76.2	0.0	0.9	0.0	357	0	2	0	66608	30625	47935	10420
501+00.0	46.6	0.0	14.3	0.0	227	0	28	0	66835	30625	47963	10420
502+00.0	38.6	0.0	45.4	0.0	158	0	111	0	66993	30625	48074	10420
503+00.0	34.2	0.0	36.8	0.0	135	0	152	0	67128	30625	48226	10420
504+00.0	31.0	0.0	33.8	208.8	121	0	131	387	67249	30625	48357	10807
505+00.0	31.5	0.0	10.0	200.7	116	0	81	758	67365	30625	48438	11565
506+00.0	10.8	0.0	45.7	0.0	78	0	103	372	67443	30625	48541	11937
507+00.0	24.2	0.0	13.1	0.0	65	0	109	0	67508	30625	48650	11937
508+00.0	24.4	0.0	31.8	0.0	90	0	83	0	67598	30625	48733	11937
509+00.0	32.4	0.0	178.8	0.0	105	0	390	0	67703	30625	49123	11937
510+00.0	38.6	0.0	73.5	93.6	131	0	467	173	67834	30625	49590	12110
511+00.0	33.9	0.0	146.0	78.9	134	0	406	319	67968	30625	49996	12429
512+00.0	33.7	0.0	186.1	88.6	125	0	615	310	68093	30625	50611	12739
513+00.0	45.2	0.0	207.0	103.5	146	0	728	356	68239	30625	51339	13095
514+00.0	35.8	0.0	203.1	100.6	150	0	760	378	68389	30625	52099	13473
515+00.0	35.3	0.0	160.4	106.9	132	0	673	384	68521	30625	52772	13857
516+00.0	63.2	0.0	84.1	121.2	183	0	453	422	68704	30625	53225	14279
517+00.0	86.9	0.0	0.0	86.7	278	0	156	385	68982	30625	53381	14664
518+00.0	219.4	0.0	0.0	43.1	567	0	0	240	69549	30625	53381	14904
519+00.0	354.4	0.0	0.0	23.7	1063	0	0	124	70612	30625	53381	15028
520+00.0	494.5	0.0	0.0	10.7	1572	0	0	64	72184	30625	53381	15092
521+00.0	393.4	0.0	0.0	10.9	1644	0	0	40	73828	30625	53381	15132
522+00.0	141.6	0.0	0.0	14.2	991	0	0	46	74819	30625	53381	15178
523+00.0	36.4	0.0	0.0	28.0	330	0	0	78	75149	30625	53381	15256
524+00.0	12.0	0.0	0.0	57.2	90	0	0	158	75239	30625	53381	15414
525+00.0	13.6	0.0	0.0	110.8	47	0	0	311	75286	30625	53381	15725
526+00.0	26.9	0.0	45.5	0.0	75	0	84	205	75361	30625	53465	15930
527+00.0	27.0	0.0	18.3	0.0	100	0	118	0	75461	30625	53583	15930
528+00.0	25.8	0.0	16.0	0.0	98	0	64	0	75559	30625	53647	15930
529+00.0	22.7	0.0	27.6	0.0	90	0	81	0	75649	30625	53728	15930
530+00.0	22.8	0.0	23.1	0.0	84	0	94	0	75733	30625	53822	15930
531+00.0	22.6	0.0	0.7	0.0	84	0	44	0	75817	30625	53866	15930
532+00.0	23.9	0.0	0.0	0.0	86	0	1	0	75903	30625	53867	15930
533+00.0	24.3	0.0	0.0	0.0	89	0	0	0	75992	30625	53867	15930
534+00.0	25.5	0.0	0.0	0.0	92	0	0	0	76084	30625	53867	15930

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EARTHWORK IH 94 STAGE 2

STATION	AREA (SF)				INCREMENTAL VOL (CY)				CUMULATIVE VOL (CY)			
	CUT	ROCK CUT	FILL	SELECT FILL	CUT	ROCK CUT	FILL	SELECT FILL	CUT	ROCK CUT	FILL	SELECT FILL
400+00.0	20	0.0	0.0	0.0								
401+00.0	20.0	0.0	0.0	0.0	75	0	0	0	75	0	0	0
402+00.0	17.7	0.0	0.5	0.0	70	0	1	0	145	0	1	0
403+00.0	19.8	0.0	1.6	0.0	69	0	4	0	214	0	5	0
404+00.0	19.4	0.0	0.5	0.0	73	0	4	0	287	0	9	0
405+00.0	19.6	0.0	3.7	0.0	72	0	8	0	359	0	17	0
406+00.0	19.5	0.0	11.2	0.0	73	0	28	0	432	0	45	0
407+00.0	27.5	0.0	210.2	0.0	87	0	410	0	519	0	455	0
408+00.0	18.5	0.0	269.3	0.0	85	0	888	0	604	0	1343	0
409+00.0	23.3	0.0	74.0	0.0	77	0	636	0	681	0	1979	0
410+00.0	56.2	0.0	13.5	0.0	147	0	162	0	828	0	2141	0
411+00.0	121.7	0.0	13.8	0.0	329	0	51	0	1157	0	2192	0
412+00.0	226.8	0.0	9.6	0.0	645	0	43	0	1802	0	2235	0
413+00.0	343.4	0.0	0.0	27.7	1056	0	18	51	2858	0	2253	51
414+00.0	230.6	0.0	0.0	53.1	1063	0	0	150	3921	0	2253	201
415+00.0	260.6	0.0	0.0	63.4	910	0	0	216	4831	0	2253	417
416+00.0	105.3	0.0	0.0	24.8	678	0	0	163	5509	0	2253	580
417+00.0	352.7	0.0	0.0	58.0	848	0	0	153	6357	0	2253	733
418+00.0	552.5	0.0	0.0	85.3	1676	0	0	265	8033	0	2253	998
419+00.0	522.8	0.0	0.0	118.0	1991	0	0	377	10024	0	2253	1375
420+00.0	473.3	0.0	0.0	117.1	1845	0	0	435	11869	0	2253	1810
421+00.0	245.0	0.0	0.0	70.8	1330	0	0	348	13199	0	2253	2158
422+00.0	60.0	0.0	0.0	65.6	565	0	0	253	13764	0	2253	2411
423+00.0	68.4	0.0	87.4	122.8	238	0	162	349	14002	0	2415	2760
424+00.0	142.2	0.0	123.7	140.2	390	0	391	487	14392	0	2806	3247
425+00.0	33.8	0.0	460.2	166.8	326	0	1081	569	14718	0	3887	3816
426+00.0	33.9	0.0	640.7	165.9	125	0	2039	616	14843	0	5926	4432
427+00.0	34.3	0.0	625.3	155.6	126	0	2344	595	14969	0	8270	5027
428+00.0	34.4	0.0	593.2	153.1	127	0	2256	572	15096	0	10526	5599
429+00.0	34.6	0.0	354.8	157.8	128	0	1756	576	15224	0	12282	6175
430+00.0	98.1	0.0	95.7	148.7	246	0	834	568	15470	0	13116	6743
431+00.0	59.1	0.0	28.0	125.1	291	0	229	507	15761	0	13345	7250
432+00.0	110.9	0.0	0.0	92.4	315	0	52	403	16076	0	13397	7653
433+00.0	319.7	0.0	0.0	58.3	797	0	0	279	16873	0	13397	7932
434+00.0	393.3	0.0	0.0	43.8	1320	0	0	189	18193	0	13397	8121
435+00.0	370.8	0.0	0.0	40.3	1415	0	0	156	19608	0	13397	8277
436+00.0	178.3	0.0	0.0	36.2	1017	0	0	142	20625	0	13397	8419
437+00.0	50.8	0.0	0.0	69.5	424	0	0	196	21049	0	13397	8615
438+00.0	51.2	0.0	6.8	96.6	189	0	13	308	21238	0	13410	8923
439+00.0	54.5	0.0	0.0	37.7	196	0	13	249	21434	0	13423	9172
440+00.0	93.9	0.0	0.0	21.1	275	0	0	109	21709	0	13423	9281
441+00.0	129.3	0.0	0.0	22.2	413	0	0	80	22122	0	13423	9361
442+00.0	139.1	0.0	0.0	26.6	497	0	0	90	22619	0	13423	9451
443+00.0	217.1	0.0	0.0	24.8	659	0	0	95	23278	0	13423	9546
444+00.0	88.6	0.0	96.9	83.3	566	0	179	200	23844	0	13602	9746
445+00.0	108.8	0.0	22.9	82.2	366	0	222	307	24210	0	13824	10053
446+00.0	165.0	0.0	0.0	20.0	507	0	42	189	24717	0	13866	10242
447+00.0	313.2	0.0	0.0	9.9	886	0	0	55	25603	0	13866	10297
448+00.0	397.1	0.0	0.0	6.0	1315	0	0	29	26918	0	13866	10326
449+00.0	442.2	0.0	0.0	3.3	1554	0	0	17	28472	0	13866	10343

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EARTHWORK IH 94 STAGE 2

STATION	AREA (SF)				INCREMENTAL VOL (CY)				CUMULATIVE VOL (CY)			
	CUT	ROCK CUT	FILL	SELECT FILL	CUT	ROCK CUT	FILL	SELECT FILL	CUT	ROCK CUT	FILL	SELECT FILL
450+00.0	456.1	0.0	0.0	2.9	1663	0	0	12	30135	0	13866	10355
451+00.0	466.0	0.0	0.0	11.1	1708	0	0	26	31843	0	13866	10381
452+00.0	444.7	0.0	0.0	13.3	1686	0	0	45	33529	0	13866	10426
453+00.0	358.1	0.0	0.0	8.4	1487	0	0	40	35016	0	13866	10466
454+00.0	286.1	0.0	0.0	4.5	1193	0	0	24	36209	0	13866	10490
455+00.0	220.1	0.0	0.0	7.7	937	0	0	23	37146	0	13866	10513
456+00.0	130.2	0.0	0.0	11.0	649	0	0	35	37795	0	13866	10548
457+00.0	101.0	0.0	0.0	31.6	428	0	0	79	38223	0	13866	10627
458+00.0	99.5	0.0	2.4	71.4	371	0	4	191	38594	0	13870	10818
459+00.0	75.8	0.0	41.2	160.6	325	0	81	430	38919	0	13951	11248
460+00.0	54.5	0.0	136.8	235.6	241	0	330	734	39160	0	14281	11982
461+00.0	34.0	0.0	283.9	281.3	164	0	779	957	39324	0	15060	12939
462+00.0	34.1	0.0	580.0	269.8	126	0	1600	1021	39450	0	16660	13960
463+00.0	33.8	0.0	832.3	267.1	126	0	2615	994	39576	0	19275	14954
464+00.0	33.5	0.0	1166.4	266.4	125	0	3701	988	39701	0	22976	15942
465+00.0	33.1	0.0	1097.7	265.9	123	0	4193	986	39824	0	27169	16928
466+00.0	33.6	0.0	785.4	285.2	123	0	3487	1021	39947	0	30656	17949
467+00.0	33.6	0.0	765.2	249.3	124	0	2871	990	40071	0	33527	18939
468+00.0	63.7	0.0	596.5	202.0	180	0	2522	836	40251	0	36049	19775
469+00.0	94.8	0.0	306.5	147.6	293	0	1672	647	40544	0	37721	20422
470+00.0	700.3	0.0	33.1	75.9	1472	0	629	414	42016	0	38350	20836
471+00.0	831.0	64.6	0.0	16.5	2836	120	61	171	44852	120	38411	21007
472+00.0	1115.5	237.6	2.0	0.0	3605	560	4	31	48457	680	38415	21038
473+00.0	1084.9	377.2	0.0	0.0	4075	1139	4	0	52532	1819	38419	21038
474+00.0	890.6	494.5	0.0	0.0	3658	1614	0	0	56190	3433	38419	21038
475+00.0	963.6	461.1	0.0	0.0	3434	1770	0	0	59624	5203	38419	21038
476+00.0	1028.7	555.3	0.0	0.0	3689	1882	0	0	63313	7085	38419	21038
477+00.0	1214.8	448.6	0.0	0.0	4155	1859	0	0	67468	8944	38419	21038
478+00.0	1611.5	1221.0	0.0	0.0	5234	3092	0	0	72702	12036	38419	21038
479+00.0	2188.0	2250.8	0.0	0.0	7036	6429	0	0	79738	18465	38419	21038
480+00.0	1844.5	3093.2	0.0	0.0	7468	9896	0	0	87206	28361	38419	21038
481+00.0	2119.3	3492.0	0.0	0.0	7340	12195	0	0	94546	40556	38419	21038
482+00.0	2281.2	3860.0	0.0	0.0	8149	13615	0	0	102695	54171	38419	21038
483+00.0	1699.2	3825.1	0.0	0.0	7371	14232	0	0	110066	68403	38419	21038
484+00.0	1988.3	2427.0	0.0	0.0	6829	11578	0	0	116895	79981	38419	21038
485+00.0	1357.6	1463.0	0.0	0.0	6196	7204	0	0	123091	87185	38419	21038
486+00.0	1273.6	559.4	0.0	0.0	4873	3745	0	0	127964	90930	38419	21038
487+00.0	771.8	595.8	0.0	0.0	3788	2139	0	0	131752	93069	38419	21038
488+00.0	885.3	683.0	0.0	0.0	3069	2368	0	0	134821	95437	38419	21038
489+00.0	938.9	719.4	0.0	0.0	3378	2597	0	0	138199	98034	38419	21038
490+00.0	1022.3	0.0	0.0	0.0	3632	1332	0	0	141831	99366	38419	21038
491+00.0	1121.8	0.0	0.0	0.0	3971	0	0	0	145802	99366	38419	21038
492+00.0	1110.6	0.0	0.0	21.9	4134	0	0	41	149936	99366	38419	21079
493+00.0	1158.3	0.0	0.0	0.0	4202	0	0	41	154138	99366	38419	21120
494+00.0	621.6	0.0	0.0	0.0	3296	0	0	0	157434	99366	38419	21120
495+00.0	659.6	0.0	66.0	0.0	2373	0	122	0	159807	99366	38541	21120
496+00.0	502.4	0.0	0.0	0.0	2152	0	122	0	161959	99366	38663	21120
497+00.0	395.8	0.0	1.0	0.0	1663	0	2	0	163622	99366	38665	21120
498+00.0	455.1	0.0	0.4	0.0	1576	0	3	0	165198	99366	38668	21120

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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090101_ew.dgn PLOT DATE : 1/5/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 49

EARTHWORK IH 94 STAGE 2

STATION	AREA (SF)				INCREMENTAL VOL (CY)				CUMULATIVE VOL (CY)			
	CUT	ROCK CUT	FILL	SELECT FILL	CUT	ROCK CUT	FILL	SELECT FILL	CUT	ROCK CUT	FILL	SELECT FILL
499+00.0	439.9	0.0	0.9	0.0	1657	0	2	0	166855	99366	38670	21120
500+00.0	698.0	0.0	0.0	0.0	2107	0	2	0	168962	99366	38672	21120
501+00.0	633.5	0.0	0.0	0.0	2466	0	0	0	171428	99366	38672	21120
502+00.0	635.7	0.0	0.0	0.0	2350	0	0	0	173778	99366	38672	21120
503+00.0	599.4	0.0	0.0	0.0	2287	0	0	0	176065	99366	38672	21120
504+00.0	553.9	0.0	0.0	0.0	2136	0	0	0	178201	99366	38672	21120
505+00.0	533.5	0.0	0.0	0.0	2014	0	0	0	180215	99366	38672	21120
506+00.0	422.7	0.0	0.0	0.0	1771	0	0	0	181986	99366	38672	21120
507+00.0	338.2	0.0	0.0	0.0	1409	0	0	0	183395	99366	38672	21120
508+00.0	436.7	0.0	0.0	0.0	1435	0	0	0	184830	99366	38672	21120
509+00.0	426.1	0.0	0.0	0.0	1598	0	0	0	186428	99366	38672	21120
510+00.0	384.2	0.0	0.0	0.0	1501	0	0	0	187929	99366	38672	21120
511+00.0	527.7	0.0	0.0	0.0	1689	0	0	0	189618	99366	38672	21120
512+00.0	501.0	0.0	0.0	0.0	1905	0	0	0	191523	99366	38672	21120
513+00.0	463.2	0.0	0.0	0.0	1786	0	0	0	193309	99366	38672	21120
514+00.0	393.5	0.0	0.0	0.0	1586	0	0	0	194895	99366	38672	21120
515+00.0	367.7	0.0	0.0	0.0	1410	0	0	0	196305	99366	38672	21120
516+00.0	326.1	0.0	0.0	1.4	1285	0	0	3	197590	99366	38672	21123
517+00.0	325.3	0.0	0.0	1.9	1206	0	0	6	198796	99366	38672	21129
518+00.0	361.6	0.0	0.0	5.9	1272	0	0	14	200068	99366	38672	21143
519+00.0	350.8	0.0	0.0	17.8	1319	0	0	44	201387	99366	38672	21187
520+00.0	321.2	0.0	0.0	23.0	1244	0	0	76	202631	99366	38672	21263
521+00.0	261.3	0.0	0.0	35.2	1079	0	0	108	203710	99366	38672	21371
522+00.0	214.4	0.0	0.0	30.8	881	0	0	122	204591	99366	38672	21493
523+00.0	195.5	0.0	0.0	10.8	759	0	0	77	205350	99366	38672	21570
524+00.0	134.3	0.0	0.0	32.7	611	0	0	81	205961	99366	38672	21651
525+00.0	76.9	0.0	0.0	93.8	391	0	0	234	206352	99366	38672	21885
526+00.0	22.9	0.0	48.8	0.0	185	0	90	174	206537	99366	38762	22059
527+00.0	26.7	0.0	74.0	0.0	92	0	227	0	206629	99366	38989	22059
528+00.0	21.6	0.0	57.1	0.0	89	0	243	0	206718	99366	39232	22059
529+00.0	20.8	0.0	45.5	0.0	78	0	190	0	206796	99366	39422	22059
530+00.0	19.5	0.0	34.9	0.0	75	0	149	0	206871	99366	39571	22059
531+00.0	20.3	0.0	18.3	0.0	74	0	99	0	206945	99366	39670	22059
532+00.0	5.2	0.0	5.9	0.0	47	0	45	0	206992	99366	39715	22059
533+00.0	4.9	0.0	0.7	0.0	19	0	12	0	207011	99366	39727	22059
534+00.0	0.0	0.0	0.0	0.0	9	0	1	0	207020	99366	39728	22059
535+00.0	0.0	0.0	0.0	0.0	0	0	0	0	207020	99366	39728	22059
536+00.0	0.0	0.0	0.0	0.0	0	0	0	0	207020	99366	39728	22059
537+00.0	0.0	0.0	0.0	0.0	0	0	0	0	207020	99366	39728	22059

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EARTHWORK IH 94 STAGE 3

STATION	AREA (SF)				INCREMENTAL VOL (CY)				CUMULATIVE VOL (CY)			
	CUT	ROCK CUT	FILL	SELECT FILL	CUT	ROCK CUT	FILL	SELECT FILL	CUT	ROCK CUT	FILL	SELECT FILL
400+00.0	4.6	0.0	0.0	0.0								
401+00.0	14.0	0.0	0.0	0.0	34	0	0	0	34	0	0	0
402+00.0	100.5	0.0	0.0	0.0	212	0	0	0	246	0	0	0
403+00.0	220.7	0.0	0.0	0.0	595	0	0	0	841	0	0	0
404+00.0	310.4	0.0	0.0	0.0	983	0	0	0	1824	0	0	0
405+00.0	317.4	0.0	0.0	0.0	1163	0	0	0	2987	0	0	0
406+00.0	303.8	0.0	0.0	0.0	1150	0	0	0	4137	0	0	0
407+00.0	341.3	0.0	0.0	0.0	1195	0	0	0	5332	0	0	0
408+00.0	223.7	0.0	38.0	0.0	1046	0	70	0	6378	0	70	0
409+00.0	154.5	0.0	20.5	0.0	700	0	108	0	7078	0	178	0
410+00.0	76.8	0.0	8.5	0.0	428	0	54	0	7506	0	232	0
411+00.0	68.6	0.0	0.3	0.0	269	0	16	0	7775	0	248	0
412+00.0	62.8	0.0	0.0	0.0	243	0	0	0	8018	0	248	0
413+00.0	114.9	0.0	0.0	17.6	329	0	0	33	8347	0	248	33
414+00.0	99.7	0.0	0.0	5.9	397	0	0	44	8744	0	248	77
414+55.0	92.4	0.0	0.0	5.4	196	0	0	12	8940	0	248	89
415+00.0	86.9	0.0	0.0	5.6	149	0	0	9	9089	0	248	98
415+25.1	82.9	0.0	0.0	12.8	79	0	0	9	9168	0	248	107
415+85.0	70.0	0.0	0.0	36.1	170	0	0	54	9338	0	248	161
416+00.0	69.7	0.0	0.0	45.2	39	0	0	23	9377	0	248	184
417+00.0	72.1	0.0	0.0	90.8	263	0	0	252	9640	0	248	436
418+00.0	66.5	0.0	0.0	131.6	257	0	0	412	9897	0	248	848
419+00.0	66.0	0.0	0.0	161.0	245	0	0	542	10142	0	248	1390
420+00.0	66.4	0.0	0.0	177.5	245	0	0	627	10387	0	248	2017
421+00.0	66.1	0.0	0.0	125.0	245	0	0	560	10632	0	248	2577
422+00.0	62.5	0.0	0.2	90.8	238	0	0	400	10870	0	248	2977
422+49.4	61.8	0.0	0.2	86.3	114	0	0	162	10984	0	248	3139
423+00.0	61.5	0.0	0.2	89.5	115	0	0	165	11099	0	248	3304
424+00.0	61.5	0.0	0.2	101.8	228	0	1	354	11327	0	249	3658
425+00.0	63.0	0.0	0.2	117.0	231	0	1	405	11558	0	250	4063
425+20.0	63.8	0.0	0.2	120.8	47	0	0	88	11605	0	250	4151
425+90.0	64.0	0.0	0.2	119.7	166	0	1	312	11771	0	251	4463
426+00.0	65.8	0.0	0.2	119.7	24	0	0	44	11795	0	251	4507
427+00.0	66.7	0.0	0.2	127.6	245	0	1	458	12040	0	252	4965
427+75.0	67.3	0.0	0.2	137.1	186	0	1	368	12226	0	253	5333
428+00.0	69.5	0.0	0.2	148.0	63	0	0	132	12289	0	253	5465
429+00.0	70.3	0.0	0.2	140.8	259	0	1	535	12548	0	254	6000
430+00.0	70.3	0.0	0.2	141.6	260	0	1	523	12808	0	255	6523
431+00.0	70.5	0.0	0.2	119.8	261	0	1	484	13069	0	256	7007
432+00.0	73.6	0.0	0.0	98.1	267	0	0	403	13336	0	256	7410
433+00.0	74.7	0.0	0.0	82.5	275	0	0	334	13611	0	256	7744
434+00.0	75.2	0.0	0.0	79.9	277	0	0	301	13888	0	256	8045
435+00.0	75.7	0.0	0.0	59.4	279	0	0	258	14167	0	256	8303
436+00.0	76.7	0.0	0.0	58.5	282	0	0	218	14449	0	256	8521
437+00.0	76.2	0.0	0.2	56.2	283	0	0	212	14732	0	256	8733
438+00.0	88.4	0.0	0.2	51.7	305	0	1	200	15037	0	257	8933
439+00.0	62.1	0.0	0.2	43.3	279	0	1	176	15316	0	258	9109
440+00.0	62.4	0.0	0.2	44.4	231	0	1	162	15547	0	259	9271
441+00.0	64.0	0.0	0.2	37.0	234	0	1	151	15781	0	260	9422
442+00.0	64.0	0.0	0.2	35.9	237	0	1	135	16018	0	261	9557

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PROJECT NO:1020-07-74 | HWY:IH 94 | COUNTY:ST. CROIX | EARTHWORK | SHEET 615 | E

EARTHWORK IH 94 STAGE 3

STATION	AREA (SF)				INCREMENTAL VOL (CY)				CUMULATIVE VOL (CY)			
	CUT	ROCK CUT	FILL	SELECT FILL	CUT	ROCK CUT	FILL	SELECT FILL	CUT	ROCK CUT	FILL	SELECT FILL
443+00.0	66.5	0.0	0.2	26.8	242	0	1	116	16260	0	262	9673
444+00.0	72.5	0.0	0.2	23.7	257	0	1	93	16517	0	263	9766
445+00.0	80.5	0.0	0.0	21.3	283	0	0	83	16800	0	263	9849
446+00.0	93.1	0.0	4.2	16.7	321	0	8	70	17121	0	271	9919
447+00.0	98.1	0.0	4.2	19.7	354	0	16	67	17475	0	287	9986
447+50.0	93.7	0.0	4.2	16.3	178	0	8	33	17653	0	295	10019
448+00.0	87.7	0.0	4.2	32.7	168	0	8	45	17821	0	303	10064
449+00.0	80.7	0.0	4.2	13.7	312	0	16	86	18133	0	319	10150
450+00.0	71.9	0.0	4.2	24.7	283	0	16	71	18416	0	335	10221
451+00.0	71.8	0.0	4.2	33.2	266	0	16	107	18682	0	351	10328
452+00.0	71.3	0.0	4.2	35.6	265	0	16	127	18947	0	367	10455
453+00.0	75.2	0.0	4.2	25.9	271	0	16	114	19218	0	383	10569
454+00.0	81.2	0.0	4.2	16.0	290	0	16	78	19508	0	399	10647
455+00.0	90.3	0.0	2.2	10.8	318	0	12	50	19826	0	411	10697
456+00.0	83.7	0.0	0.2	16.1	322	0	5	50	20148	0	416	10747
457+00.0	68.3	0.0	0.2	36.8	281	0	1	98	20429	0	417	10845
458+00.0	61.5	0.0	0.2	112.0	240	0	1	275	20669	0	418	11120
459+00.0	61.3	0.0	135.3	353.5	227	0	251	862	20896	0	669	11982
460+00.0	61.2	0.0	189.4	305.5	227	0	601	1220	21123	0	1270	13202
461+00.0	61.4	0.0	252.9	343.2	227	0	819	1201	21350	0	2089	14403
462+00.0	61.5	0.0	436.7	293.6	227	0	1277	1179	21577	0	3366	15582
463+00.0	61.3	0.0	572.7	293.8	227	0	1869	1088	21804	0	5235	16670
464+00.0	61.2	0.0	658.2	293.9	227	0	2280	1088	22031	0	7515	17758
465+00.0	61.3	0.0	635.2	293.9	227	0	2395	1089	22258	0	9910	18847
466+00.0	61.1	0.0	476.8	342.6	227	0	2059	1179	22485	0	11969	20026
467+00.0	61.2	0.0	428.3	315.0	227	0	1676	1218	22712	0	13645	21244
468+00.0	61.4	0.0	363.8	250.0	227	0	1467	1046	22939	0	15112	22290
469+00.0	61.5	0.0	280.5	173.4	228	0	1193	784	23167	0	16305	23074
470+00.0	65.3	0.0	205.1	80.7	235	0	899	471	23402	0	17204	23545
471+00.0	136.7	0.0	0.0	6.0	374	0	380	161	23776	0	17584	23706
472+00.0	215.1	34.7	0.0	0.0	651	64	0	11	24427	64	17584	23717
473+00.0	283.4	114.1	0.2	0.0	923	276	0	0	25350	340	17584	23717
474+00.0	278.2	208.9	3.1	0.0	1040	598	6	0	26390	938	17590	23717
474+85.0	303.5	278.2	3.1	0.0	916	767	10	0	27306	1705	17600	23717
475+00.0	319.4	297.6	3.1	0.0	173	160	2	0	27479	1865	17602	23717
476+00.0	284.5	445.7	3.1	0.0	1118	1376	11	0	28597	3241	17613	23717
477+00.0	218.7	627.7	3.1	0.0	932	1988	11	0	29529	5229	17624	23717
478+00.0	225.2	741.2	3.1	0.0	822	2535	11	0	30351	7764	17635	23717
479+00.0	224.2	812.0	3.1	0.0	832	2876	11	0	31183	10640	17646	23717
480+00.0	240.9	878.2	3.1	0.0	861	3130	11	0	32044	13770	17657	23717
481+00.0	207.6	1000.6	3.1	0.0	831	3479	11	0	32875	17249	17668	23717
482+00.0	204.5	1051.4	1.7	0.0	763	3800	9	0	33638	21049	17677	23717
483+00.0	128.6	463.4	0.0	0.0	617	2805	3	0	34255	23854	17680	23717
484+00.0	150.0	472.3	0.0	0.0	516	1733	0	0	34771	25587	17680	23717
485+00.0	175.5	515.1	0.0	0.0	603	1829	0	0	35374	27416	17680	23717
486+00.0	537.4	500.0	0.0	0.0	1320	1880	0	0	36694	29296	17680	23717
487+00.0	141.2	434.5	0.0	0.0	1257	1730	0	0	37951	31026	17680	23717
488+00.0	203.2	568.5	0.0	0.0	638	1857	0	0	38589	32883	17680	23717
489+00.0	224.3	522.1	0.0	0.0	792	2020	0	0	39381	34903	17680	23717

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EARTHWORK IH 94 STAGE 3

STATION	AREA (SF)				INCREMENTAL VOL (CY)				CUMULATIVE VOL (CY)			
	CUT	ROCK CUT ROCK	FILL	SELECT FILL SELECT	CUT	ROCK CUT	FILL	SELECT FILL	CUT 1.00	ROCK CUT 1.00	FILL 1.00	SELECT FILL 1.00
490+00.0	679.2	0.0	0.0	0.0	1673	967	0	0	41054	35870	17680	23717
491+00.0	605.9	0.0	0.0	0.0	2380	0	0	0	43434	35870	17680	23717
492+00.0	466.7	0.0	9.3	0.0	1986	0	17	0	45420	35870	17697	23717
493+00.0	369.8	0.0	65.7	0.0	1549	0	139	0	46969	35870	17836	23717
494+00.0	296.4	0.0	137.6	0.0	1234	0	376	0	48203	35870	18212	23717
495+00.0	206.3	0.0	254.3	0.0	931	0	726	0	49134	35870	18938	23717
496+00.0	149.0	0.0	144.0	0.0	658	0	738	0	49792	35870	19676	23717
497+00.0	146.0	0.0	387.9	0.0	546	0	985	0	50338	35870	20661	23717
498+00.0	300.3	0.0	85.7	0.0	827	0	877	0	51165	35870	21538	23717
499+00.0	256.4	0.0	44.7	0.0	1031	0	241	0	52196	35870	21779	23717
500+00.0	384.1	0.0	0.0	0.0	1186	0	83	0	53382	35870	21862	23717
501+00.0	460.2	0.0	0.0	0.0	1563	0	0	0	54945	35870	21862	23717
502+00.0	462.3	0.0	0.0	0.0	1708	0	0	0	56653	35870	21862	23717
503+00.0	621.8	0.0	0.0	0.0	2007	0	0	0	58660	35870	21862	23717
504+00.0	601.4	0.0	0.0	0.0	2265	0	0	0	60925	35870	21862	23717
505+00.0	529.8	0.0	0.0	0.0	2095	0	0	0	63020	35870	21862	23717
506+00.0	446.9	0.0	105.9	0.0	1809	0	196	0	64829	35870	22058	23717
507+00.0	304.4	0.0	72.1	0.0	1391	0	330	0	66220	35870	22388	23717
508+00.0	271.2	0.0	36.1	0.0	1066	0	200	0	67286	35870	22588	23717
509+00.0	244.0	0.0	12.1	0.0	954	0	89	0	68240	35870	22677	23717
510+00.0	423.4	0.0	4.4	0.0	1236	0	30	0	69476	35870	22707	23717
511+00.0	334.5	0.0	0.0	0.0	1404	0	8	0	70880	35870	22715	23717
512+00.0	312.3	0.0	0.0	0.0	1198	0	0	0	72078	35870	22715	23717
513+00.0	296.2	0.0	0.0	0.0	1127	0	0	0	73205	35870	22715	23717
514+00.0	284.4	0.0	0.0	0.0	1075	0	0	0	74280	35870	22715	23717
515+00.0	265.3	0.0	0.0	0.0	1018	0	0	0	75298	35870	22715	23717
516+00.0	260.5	0.0	0.0	0.0	974	0	0	0	76272	35870	22715	23717
517+00.0	226.7	0.0	0.0	0.0	902	0	0	0	77174	35870	22715	23717
518+00.0	245.7	0.0	0.6	0.0	875	0	1	0	78049	35870	22716	23717
519+00.0	202.0	0.0	0.3	6.9	829	0	2	13	78878	35870	22718	23730
520+00.0	191.5	0.0	0.2	13.9	729	0	1	38	79607	35870	22719	23768
521+00.0	181.3	0.0	0.0	15.0	690	0	0	53	80297	35870	22719	23821
522+00.0	167.0	0.0	0.1	17.5	645	0	0	60	80942	35870	22719	23881
523+00.0	158.9	0.0	0.2	13.1	604	0	0	57	81546	35870	22719	23938
524+00.0	135.3	0.0	0.2	24.4	545	0	1	69	82091	35870	22720	24007
525+00.0	116.9	0.0	0.2	29.8	467	0	1	100	82558	35870	22721	24107
526+00.0	93.7	0.0	0.0	0.0	390	0	0	55	82948	35870	22721	24162
527+00.0	80.4	0.0	0.0	0.0	322	0	0	0	83270	35870	22721	24162
528+00.0	63.9	0.0	0.0	0.0	267	0	0	0	83537	35870	22721	24162
529+00.0	73.6	0.0	0.0	0.0	255	0	0	0	83792	35870	22721	24162
530+00.0	105.2	0.0	11.5	0.0	331	0	21	0	84123	35870	22742	24162
531+00.0	177.9	0.0	0.0	0.0	524	0	21	0	84647	35870	22763	24162
532+00.0	182.2	0.0	0.0	0.0	667	0	0	0	85314	35870	22763	24162
533+00.0	188.1	0.0	0.0	0.0	686	0	0	0	86000	35870	22763	24162

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EARTHWORK IH 94 STAGE 3

STATION	AREA (SF)				INCREMENTAL VOL (CY)				CUMULATIVE VOL (CY)			
	CUT	ROCK CUT	FILL	SELECT FILL	CUT	ROCK CUT	FILL	SELECT FILL	CUT	ROCK CUT	FILL	SELECT FILL
534+00.0	186.9	0.0	0.0	0.0	694	0	0	0	86694	35870	22763	24162
535+00.0	108.6	0.0	5.0	0.0	547	0	9	0	87241	35870	22772	24162
536+00.0	51.6	0.0	0.0	0.0	297	0	9	0	87538	35870	22781	24162
537+00.0	17.9	0.0	0.0	0.0	129	0	0	0	87667	35870	22781	24162
538+00.0	8.7	0.0	0.0	0.0	49	0	0	0	87716	35870	22781	24162
539+00.0	7.5	0.0	0.0	0.0	30	0	0	0	87746	35870	22781	24162
540+00.0	4.7	0.0	0.0	0.0	22	0	0	0	87768	35870	22781	24162
541+00.0	4.6	0.0	0.0	0.0	17	0	0	0	87785	35870	22781	24162
542+00.0	4.6	0.0	0.0	0.0	17	0	0	0	87802	35870	22781	24162
543+00.0	4.9	0.0	0.0	0.0	18	0	0	0	87820	35870	22781	24162
544+00.0	4.9	0.0	0.0	0.0	18	0	0	0	87838	35870	22781	24162
545+00.0	3.8	0.0	0.0	0.0	16	0	0	0	87854	35870	22781	24162
546+00.0	1.0	0.0	0.0	0.0	9	0	0	0	87863	35870	22781	24162

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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	EARTHWORK	SHEET 618	E

EARTHWORK STH 65 STAGE 1A

STATION	AREA (SF) CUT	AREA (SF) FILL	AREA (SF) SELECT FILL	AREA (SF) EBS	INCREMENTAL VOL (CY) CUT	INCREMENTAL VOL (CY) FILL	INCREMENTAL VOL (CY) SELECT FILL	INCREMENTAL VOL (CY) EBS	CUMULATIVE VOL (CY) CUT	CUMULATIVE VOL (CY) FILL	CUMULATIVE VOL (CY) SELECT FILL
32+00.0	15.1	43.5	0.0	0.0							
32+50.0	14.8	45.0	0.0	0.0	28	82	0	0	28	82	0
33+00.0	12.7	48.7	0.0	0.0	25	87	0	0	53	169	0
33+50.0	10.5	45.4	0.0	0.0	21	87	0	0	74	256	0
34+00.0	10.6	30.5	0.0	0.0	20	70	0	0	94	326	0
34+50.0	8.7	29.1	0.0	0.0	18	55	0	0	112	381	0
35+00.0	21.4	24.3	17.3	0.0	28	49	16	0	140	430	16
35+50.0	16.1	22.8	14.0	0.0	35	44	29	0	175	474	45
36+00.0	23.7	17.4	12.8	0.0	37	37	25	0	212	511	70
36+50.0	21.6	14.2	10.3	0.0	42	29	21	0	254	540	91
37+00.0	21.9	7.5	8.1	0.0	40	20	17	0	294	560	108
37+50.0	15.4	0.0	11.2	0.0	35	7	18	0	329	567	126
38+00.0	23.1	0.0	6.4	0.0	36	0	16	0	365	567	142
38+50.0	13.9	0.0	6.4	0.0	34	0	12	0	399	567	154
39+00.0	44.6	0.0	2.1	0.0	54	0	8	0	453	567	162
39+50.0	49.2	0.0	1.0	0.0	87	0	3	0	540	567	165
40+00.0	104.9	44.7	0.0	0.0	143	41	1	0	683	608	166
40+50.0	40.4	35.1	0.0	0.0	135	74	0	0	818	682	166
41+00.0	24.6	73.0	0.0	0.0	60	100	0	0	878	782	166
41+50.0	11.7	128.5	0.0	0.0	34	187	0	0	912	969	166
42+00.0	11.9	151.1	0.0	0.0	22	259	0	0	934	1228	166
42+50.0	40.8	15.8	0.0	0.0	49	155	0	0	983	1383	166
43+00.0	43.1	0.0	0.0	0.0	78	15	0	0	1061	1398	166
43+50.0	0.0	779.4	0.0	0.0	40	722	0	0	1101	2120	166
44+00.0	0.0	1026.9	0.0	0.0	0	1673	0	0	1101	3793	166
44+50.0	0.0	1392.4	232.6	0.0	0	2240	215	0	1101	6033	381
45+00.0	0.0	1671.6	247.4	0.0	0	2837	444	0	1101	8870	825
45+50.0	0.0	1972.2	431.5	0.0	0	3374	629	0	1101	12244	1454
46+00.0	0.0	2009.1	391.9	0.0	0	3686	762	0	1101	15930	2216
46+50.0	0.0	3026.5	323.7	0.0	0	4663	663	0	1101	20593	2879
47+00.0	0.0	2342.6	384.2	0.0	0	4971	655	0	1101	25564	3534
47+50.0	0.0	1777.8	264.2	0.0	0	3815	600	0	1101	29379	4134
48+00.0	0.0	1484.6	196.2	0.0	0	3021	426	0	1101	32400	4560
48+30.0	0.0	1203.8	196.2	0.0	0	1494	363	0	1101	33894	4923
49+00.0	0.0	0.0	0.0	0.0	0	1560	109	0	1101	35454	5032
B-55-0249											

EARTHWORK STH 65 STAGE 1A

STATION	AREA (SF) CUT	AREA (SF) FILL	AREA (SF) SELECT FILL	AREA (SF) EBS	INCREMENTAL VOL (CY) CUT	INCREMENTAL VOL (CY) FILL	INCREMENTAL VOL (CY) SELECT FILL	INCREMENTAL VOL (CY) EBS	CUMULATIVE VOL (CY) CUT	CUMULATIVE VOL (CY) FILL	CUMULATIVE VOL (CY) SELECT FILL
50+60.00	0.0	0.0	0.0	0.0							
51+30.00	0.0	1503.8	186.2	0.0	0	1949	241	0	0	1949	241
51+50.0	0.0	1557.5	186.2	0.0	0	1134	138	0	0	3083	379
52+00.0	0.0	1492.7	210.3	0.0	0	2824	367	0	0	5907	746
52+50.0	0.0	737.0	229.2	0.0	0	2065	407	0	0	7972	1153
53+00.0	0.0	893.6	232.3	0.0	0	1510	427	0	0	9482	1580
53+50.0	0.0	402.8	299.5	0.0	0	1200	492	0	0	10682	2072
54+00.0	0.0	1757.6	0.0	0.0	0	2000	277	0	0	12682	2349
54+50.0	0.0	1778.5	0.0	0.0	0	3274	0	0	0	15956	2349
55+00.0	0.0	655.1	0.0	0.0	0	2253	0	0	0	18209	2349
55+50.0	0.0	346.2	0.0	0.0	0	927	0	0	0	19136	2349
56+00.0	0.0	558.0	0.0	0.0	0	837	0	0	0	19973	2349
56+50.0	18.6	197.1	0.0	0.0	17	699	0	0	17	20672	2349
57+00.0	72.9	0.0	0.0	0.0	85	183	0	0	102	20855	2349
57+50.0	57.5	0.0	0.0	0.0	121	0	0	0	223	20855	2349
58+00.0	24.2	87.1	0.0	0.0	76	81	0	0	299	20936	2349
58+50.0	20.5	24.2	0.0	0.0	41	103	0	0	340	21039	2349
59+00.0	40.7	0.0	0.0	0.0	57	22	0	0	397	21061	2349
59+50.0	16.1	0.0	0.0	0.0	53	0	0	0	450	21061	2349
60+00.0	32.0	0.0	0.0	0.0	45	0	0	0	495	21061	2349
60+50.0	55.5	0.0	0.0	0.0	81	0	0	0	576	21061	2349
61+00.0	23.9	0.0	0.0	0.0	74	0	0	0	650	21061	2349
61+50.0	19.9	0.0	1.6	0.0	41	0	1	0	691	21061	2350
62+00.0	10.6	0.0	15.8	0.0	28	0	16	0	719	21061	2366
62+50.0	11.9	8.0	0.0	0.0	21	7	15	0	740	21068	2381
63+00.0	16.7	7.3	0.0	0.0	26	14	0	0	766	21082	2381
63+50.0	22.1	2.0	0.0	0.0	36	9	0	0	802	21091	2381
64+00.0	20.3	0.0	0.0	0.0	39	2	0	0	841	21093	2381

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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	EARTHWORK	SHEET 619	E

EARTHWORK STH 65 STAGE 1B

STATION	AREA (SF)				INCREMENTAL VOL (CY)				CUMULATIVE VOL (CY)		
	CUT	FILL	SELECT FILL	EBS	CUT	FILL	SELECT FILL	EBS	CUT	FILL	SELECT FILL
32+00.0	0.0	0.0	0.0	0.0							
32+50.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0
33+00.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0
33+50.0	33.9	0.0	0.0	0.0	31	0	0	0	31	0	0
34+00.0	44.3	0.0	0.0	0.0	72	0	0	0	103	0	0
34+50.0	49.3	0.0	0.0	0.0	87	0	0	0	190	0	0
35+00.0	59.8	0.0	0.0	0.0	101	0	0	0	291	0	0
35+50.0	67.8	0.0	0.0	0.0	118	0	0	0	409	0	0
36+00.0	122.5	0.0	0.0	0.0	176	0	0	0	585	0	0
36+50.0	87.6	0.0	0.0	0.0	195	0	0	0	780	0	0
37+00.0	35.8	0.0	0.0	0.0	114	0	0	0	894	0	0
37+50.0	38.9	22.1	0.0	0.0	69	20	0	0	963	20	0
38+00.0	38.7	13.4	0.0	0.0	72	33	0	0	1035	53	0
38+50.0	44.8	7.1	0.0	0.0	77	19	0	0	1112	72	0
39+00.0	28.4	13.2	0.0	0.0	68	19	0	0	1180	91	0
39+50.0	122.3	0.0	11.4	0.0	140	12	11	0	1320	103	11
40+00.0	230.1	7.5	0.0	0.0	326	7	11	0	1646	110	22
40+50.0	16.7	0.0	25.8	0.0	229	7	24	0	1875	117	46
41+00.0	15.3	63.6	55.0	0.0	30	59	75	0	1905	176	121
41+50.0	7.2	183.3	58.3	0.0	21	229	105	0	1926	405	226
42+00.0	0.0	216.8	69.2	0.0	7	370	118	0	1933	775	344
42+50.0	0.0	15.5	91.3	0.0	0	215	149	0	1933	990	493
43+00.0	0.0	22.9	117.8	0.0	0	36	194	0	1933	1026	687
43+50.0	0.0	59.8	152.6	0.0	0	77	250	0	1933	1103	937
44+00.0	0.0	83.8	37.3	0.0	0	133	176	0	1933	1236	1113
44+50.0	0.0	118.2	98.5	0.0	0	187	126	0	1933	1423	1239
45+00.0	0.0	121.9	88.7	0.0	0	222	173	0	1933	1645	1412
45+50.0	0.0	89.6	116.6	0.0	0	196	190	0	1933	1841	1602
46+00.0	0.0	120.8	217.2	0.0	0	195	309	0	1933	2036	1911
46+50.0	0.0	58.7	177.8	0.0	0	166	366	0	1933	2202	2277
47+00.0	0.0	793.3	187.9	0.0	0	789	339	0	1933	2991	2616
47+50.0	0.0	1065.4	181.2	0.0	0	1721	342	0	1933	4712	2958
48+00.0	0.0	788.4	161.5	0.0	0	1716	317	0	1933	6428	3275
48+30.0	0.0	688.5	161.5	0.0	0	821	299	0	1933	7249	3574
49+00.0	0.0	0.0	0.0	0.0	0	893	90	0	1933	8142	3664
B-55-0249											
50+60.0	0.0	0.0	0.0	0.0							
51+30.0	0.0	549.9	166.1	0.0	0	713	215	0	0	713	215

EARTHWORK STH 65 STAGE 1B

STATION	AREA (SF)				INCREMENTAL VOL (CY)				CUMULATIVE VOL (CY)		
	CUT	FILL	SELECT FILL	EBS	CUT	FILL	SELECT FILL	EBS	CUT	FILL	SELECT FILL
52+00.0	0.0	1128.9	244.2	0.0	0	2176	532	0	0	2889	747
52+50.0	0.0	1774.8	276.3	0.0	0	2689	482	0	0	5578	1229
53+00.0	0.0	2602.8	280.0	0.0	0	4053	515	0	0	9631	1744
53+50.0	0.0	1643.6	506.8	0.0	0	3932	729	0	0	13563	2473
54+00.0	0.0	1561.4	444.8	0.0	0	2968	881	0	0	16531	3354
54+50.0	0.0	1142.7	373.9	0.0	0	2504	758	0	0	19035	4112
55+00.0	0.0	805.6	394.0	0.0	0	1804	711	0	0	20839	4823
55+50.0	0.0	595.6	350.3	0.0	0	1297	689	0	0	22136	5512
56+00.0	0.0	475.7	321.8	0.0	0	992	622	0	0	23128	6134
56+50.0	18.6	112.4	303.8	0.0	17	545	579	0	17	23673	6713
57+00.0	72.9	111.1	286.9	0.0	85	207	547	0	102	23880	7260
57+50.0	57.5	204.6	137.8	0.0	121	292	393	0	223	24172	7653
58+00.0	24.2	161.2	130.3	0.0	76	339	248	0	299	24511	7508
58+50.0	20.5	172.1	125.7	0.0	41	309	237	0	340	24820	7890
59+00.0	40.7	113.1	117.9	0.0	57	264	226	0	397	25084	8116
59+50.0	16.1	115.9	123.3	0.0	53	212	223	0	450	25296	8339
60+00.0	32.0	106.3	132.1	0.0	45	206	236	0	495	25502	8575
60+50.0	55.5	93.0	129.1	0.0	81	185	242	0	576	25687	8817
61+00.0	23.9	31.6	179.3	0.0	74	115	286	0	650	25802	9103
61+50.0	19.9	14.6	135.6	0.0	41	43	292	0	691	25845	9395
62+00.0	10.6	0.0	104.5	0.0	28	14	222	0	719	25859	9617
62+50.0	11.9	0.0	38.1	0.0	21	0	132	0	740	25859	9749
63+00.0	16.7	0.0	23.2	0.0	26	0	57	0	766	25859	9806
63+50.0	22.1	0.0	11.6	0.0	36	0	32	0	802	25859	9838
64+00.0	20.3	0.0	0.0	0.0	39	0	11	0	841	25859	9849

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PROJECT NO: 1020-07-74 | HWY: IH 94 | COUNTY: ST. CROIX | EARTHWORK | SHEET 620 | E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090101_ew.dgn PLOT DATE : 1/5/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 49

EARTHWORK STH 65 STAGE 3E

STATION	AREA (SF)				INCREMENTAL VOL (CY)				CUMULATIVE VOL (CY)		
	CUT	FILL	SELECT FILL	EBS	CUT	FILL	SELECT FILL	EBS	CUT	FILL	SELECT FILL
51+50.0	0.0	0.0	0.0	0.0							
52+00.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0
52+50.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0
53+00.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0
53+50.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0
54+00.0	386.1	0.0	0.0	0.0	358	0	0	0	358	0	0
54+50.0	520.7	0.0	0.0	0.0	840	0	0	0	1198	0	0
55+00.0	687.5	0.0	0.0	0.0	1119	0	0	0	2317	0	0
55+50.0	330.0	0.0	0.0	0.0	942	0	0	0	3259	0	0
56+00.0	0.0	243.6	39.0	0.0	306	226	36	0	3565	226	36
56+50.0	0.0	67.7	105.9	0.0	0	288	134	0	3565	514	170
57+00.0	0.0	42.2	114.9	0.0	0	102	204	0	3565	616	374
57+50.0	0.0	52.7	138.6	0.0	0	88	235	0	3565	704	609
58+00.0	0.0	214.3	255.4	0.0	0	247	365	0	3565	951	739
58+50.0	0.0	119.3	170.8	0.0	0	309	395	0	3565	1260	1004
59+00.0	0.0	193.3	156.5	0.0	0	289	303	0	3565	1549	1307
59+50.0	0.0	224.3	143.8	0.0	0	387	278	0	3565	1936	1585
60+00.0	0.0	171.5	139.0	0.0	0	366	262	0	3565	2302	1847
60+50.0	0.0	115.6	127.1	0.0	0	266	246	0	3565	2568	2093
61+00.0	0.0	51.7	102.1	0.0	0	155	212	0	3565	2723	2305
61+50.0	0.0	20.6	56.2	0.0	0	67	147	0	3565	2790	2452
62+00.0	7.7	15.8	16.2	0.0	7	34	67	0	3572	2824	2519
62+50.0	39.9	0.0	0.0	0.0	44	15	15	0	3616	2839	2534
63+00.0	68.7	0.0	0.0	0.0	101	0	0	0	3717	2839	2534
63+50.0	53.7	0.0	0.0	0.0	113	0	0	0	3830	2839	2534
64+00.0	0.0	0.0	0.0	0.0	50	0	0	0	3880	2839	2534

EARTHWORK STH 65 STAGE 3F

STATION	AREA (SF)				INCREMENTAL VOL (CY)				CUMULATIVE VOL (CY)		
	CUT	FILL	SELECT FILL	EBS	CUT	FILL	SELECT FILL	EBS	CUT	FILL	SELECT FILL
32+00.0	0.0	0.0	0.0	0.0							
32+50.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0
33+00.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0
33+50.0	78.7	0.0	0.0	0.0	73	0	0	0	73	0	0
34+00.0	58.3	0.0	0.0	0.0	127	0	0	0	200	0	0
34+50.0	57.6	0.0	0.0	0.0	107	0	0	0	307	0	0
35+00.0	37.5	0.0	2.2	0.0	88	0	2	0	395	0	2
35+50.0	17.2	0.0	5.1	0.0	51	0	7	0	446	0	9
36+00.0	10.0	0.0	10.6	0.0	25	0	15	0	471	0	24
36+50.0	4.6	0.0	17.3	0.0	14	0	26	0	485	0	50
37+00.0	4.4	0.0	19.9	0.0	8	0	34	0	493	0	84
37+50.0	6.8	0.0	15.7	0.0	10	0	33	0	503	0	117
38+00.0	0.8	0.0	10.5	0.0	7	0	24	0	510	0	141
38+50.0	5.2	0.0	21.3	0.0	6	0	29	0	516	0	170
39+00.0	5.0	16.6	51.5	0.0	9	15	67	0	525	15	237
39+50.0	12.7	19.3	82.5	0.0	16	33	124	0	541	48	361
40+00.0	49.9	17.5	110.1	0.0	58	34	178	0	599	82	539
40+50.0	26.9	16.5	129.9	0.0	71	31	222	0	670	113	761
41+00.0	30.1	25.2	145.6	0.0	53	39	255	0	723	152	1016
41+50.0	34.4	35.3	146.5	0.0	60	56	270	0	783	208	1286
42+00.0	9.4	37.7	175.4	0.0	41	68	298	0	824	276	1584
42+50.0	12.1	132.8	106.6	0.0	20	158	261	0	844	434	1845
43+00.0	0.0	153.8	95.5	0.0	11	265	187	0	855	699	2032
43+50.0	0.0	162.2	178.7	0.0	0	293	254	0	855	992	2286
44+00.0	0.0	131.7	233.5	0.0	0	272	382	0	855	1264	2668
44+50.0	0.0	0.0	0.0	0.0	0	122	216	0	855	1386	2884
45+00.0	0.0	0.0	0.0	0.0	0	0	0	0	855	1386	2884
45+50.0	0.0	0.0	0.0	0.0	0	0	0	0	855	1386	2884
46+00.0	0.0	0.0	0.0	0.0	0	0	0	0	855	1386	2884
46+50.0	0.0	0.0	0.0	0.0	0	0	0	0	855	1386	2884
47+00.0	0.0	0.0	0.0	0.0	0	0	0	0	855	1386	2884
47+50.0	0.0	0.0	0.0	0.0	0	0	0	0	855	1386	2884
48+00.0	0.0	0.0	0.0	0.0	0	0	0	0	855	1386	2884
48+30.0	0.0	0.0	0.0	0.0	0	0	0	0	855	1386	2884
49+00.0	0.0	0.0	0.0	0.0	0	0	0	0	855	1386	2884
B-55-0249											

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PROJECT NO: 1020-07-74 | HWY: IH 94 | COUNTY: ST. CROIX | EARTHWORK | SHEET 621 | E

EARTHWORK STH 65 STAGE 3G

STATION	AREA (SF)				INCREMENTAL VOL (CY)				CUMULATIVE VOL (CY)		
	CUT	FILL	SELECT FILL	EBS	CUT	FILL	SELECT FILL	EBS	CUT	FILL	SELECT FILL
32+00.0	0.0	0.0	0.0	0.0							
32+50.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0
33+00.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0
33+50.0	17.8	0.0	0.0	0.0	16	0	0	0	16	0	0
34+00.0	16.6	0.0	0.0	0.0	32	0	0	0	48	0	0
34+50.0	12.9	0.0	0.0	0.0	27	0	0	0	75	0	0
35+00.0	5.0	0.0	0.0	0.0	17	0	0	0	92	0	0
35+50.0	5.0	0.0	0.0	0.0	9	0	0	0	101	0	0
36+00.0	13.7	0.0	0.0	0.0	17	0	0	0	118	0	0
36+50.0	0.0	0.0	0.0	0.0	13	0	0	0	131	0	0
37+00.0	0.0	0.0	0.0	0.0	0	0	0	0	131	0	0
37+50.0	0.0	2.6	0.0	0.0	0	2	0	0	131	2	0
38+00.0	30.2	0.0	0.0	0.0	28	2	0	0	159	4	0
38+50.0	39.9	0.0	0.0	0.0	65	0	0	0	224	4	0
39+00.0	30.4	3.2	0.0	0.0	65	3	0	0	289	7	0
39+50.0	0.0	4.1	0.0	0.0	28	7	0	0	317	14	0
40+00.0	0.0	8.5	0.0	0.0	0	12	0	0	317	26	0
40+50.0	0.0	26.2	0.0	0.0	0	32	0	0	317	58	0
41+00.0	0.0	32.9	0.0	0.0	0	55	0	0	317	113	0
41+50.0	0.0	39.4	0.0	0.0	0	67	0	0	317	180	0
42+00.0	0.0	41.0	0.0	0.0	0	74	0	0	317	254	0
42+50.0	27.4	4.7	0.0	0.0	25	42	0	0	342	296	0
43+00.0	62.8	5.6	0.0	0.0	84	10	0	0	426	306	0
43+50.0	124.5	12.0	0.0	0.0	173	16	0	0	599	322	0
44+00.0	127.0	19.3	0.0	0.0	233	29	0	0	832	351	0
44+50.0	178.5	15.7	0.0	0.0	283	32	0	0	1115	383	0
45+00.0	156.0	0.0	0.0	0.0	310	15	0	0	1425	398	0
45+50.0	133.2	0.0	0.0	0.0	268	0	0	0	1693	398	0
46+00.0	0.0	0.0	0.0	0.0	123	0	0	0	1816	398	0
46+50.0	0.0	0.0	0.0	0.0	0	0	0	0	1816	398	0
47+00.0	0.0	0.0	0.0	0.0	0	0	0	0	1816	398	0
47+50.0	0.0	0.0	0.0	0.0	0	0	0	0	1816	398	0
48+00.0	0.0	0.0	0.0	0.0	0	0	0	0	1816	398	0
48+30.0	0.0	0.0	0.0	0.0	0	0	0	0	1816	398	0
49+00.0	0.0	0.0	0.0	0.0	0	0	0	0	1816	398	0
49+30.0	0.0	0.0	0.0	0.0	0	0	0	0	1816	398	0
B-55-0249											
50+60.0	0.0	0.0	0.0	0.0							0
51+30.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0

EARTHWORK STH 65 STAGE 3G

STATION	AREA (SF)				INCREMENTAL VOL (CY)				CUMULATIVE VOL (CY)		
	CUT	FILL	SELECT FILL	EBS	CUT	FILL	SELECT FILL	EBS	CUT	FILL	SELECT FILL
51+50.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0
52+00.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0
52+50.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0
53+00.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0
53+50.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0
54+00.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0
54+50.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0
55+00.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0
55+50.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0
56+00.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0
56+50.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0
57+00.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0
57+50.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0
58+00.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0
58+50.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0
59+00.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0
59+50.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0
60+00.0	1.9	0.0	0.0	0.0	2	0	0	0	2	0	0
60+50.0	7.1	0.0	0.0	0.0	8	0	0	0	10	0	0
61+00.0	9.5	0.0	0.0	0.0	15	0	0	0	25	0	0
61+50.0	13.8	0.0	0.0	0.0	22	0	0	0	47	0	0
62+00.0	14.8	0.0	0.0	0.0	26	0	0	0	73	0	0
62+50.0	18.2	0.0	0.0	0.0	31	0	0	0	104	0	0
63+00.0	19.3	0.0	0.0	0.0	35	0	0	0	139	0	0
63+50.0	141.7	0.0	0.0	0.0	149	0	0	0	288	0	0
64+00.0	7.8	0.0	0.0	0.0	138	0	0	0	426	0	0

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EARTHWORK RAMP A STAGE 2

STATION	AREA (SF)					INCREMENTAL VOL (CY)					CUMULATIVE VOL (CY)			
	CUT	ROCK CUT	FILL	SELECT FILL	EBS	CUT	ROCK CUT	FILL	SELECT FILL	EBS	CUT	ROCK CUT	FILL	SELECT FILL
486+34.7	620.8	529.6	0.0	0.0	0.0									
486+50.0	804.9	499.3	0.0	0.0	0.0	405	292	0	0	0	405	292	0	0
487+00.0	1174.3	430.2	0.0	0.0	0.0	1833	861	0	0	0	2238	1153	0	0
487+50.0	985.7	521.6	0.0	0.0	0.0	2000	881	0	0	0	4238	2034	0	0
488+00.0	598.6	454.4	0.0	0.0	0.0	1467	904	0	0	0	5705	2938	0	0
488+50.0	255.8	475.9	0.0	0.0	0.0	791	861	0	0	0	6496	3799	0	0
489+00.0	150.1	416.2	0.0	0.0	0.0	376	826	0	0	0	6872	4625	0	0
489+50.0	170.3	267.4	0.0	0.0	0.0	297	633	0	0	0	7169	5258	0	0
490+00.0	308.2	0.0	0.0	0.0	0.0	443	248	0	0	0	7612	5506	0	0
490+50.0	426.2	0.0	0.0	27.8	0.0	680	0	0	26	0	8292	5506	0	26
491+00.0	854.9	0.0	24.5	103.8	0.0	1186	0	23	122	0	9478	5506	23	148
491+50.0	948.9	0.0	75.6	102.7	0.0	1670	0	93	191	0	11148	5506	116	339
492+00.0	884.2	0.0	87.2	94.7	0.0	1697	0	151	183	0	12845	5506	267	522
492+50.0	1513.7	0.0	99.8	100.3	0.0	2220	0	173	181	0	15065	5506	440	703
493+00.0	534.2	0.0	85.6	122.6	0.0	1896	0	172	206	0	16961	5506	612	909
493+42.2	229.2	0.0	87.8	145.6	0.0	596	0	135	209	0	17557	5506	747	1118
493+50.0	191.6	0.0	91.0	147.7	0.0	61	0	26	43	0	17618	5506	773	1161
493+95.4	34.5	0.0	107.7	114.3	0.0	190	0	167	220	0	17808	5506	940	1381
494+00.0	6.2	0.0	101.6	106.9	0.0	4	0	18	19	0	17812	5506	958	1400
494+50.0	31.5	0.0	13.9	103.1	0.0	35	0	107	194	0	17847	5506	1065	1594
494+62.7	36.5	0.0	6.2	151.1	0.0	16	0	5	60	0	17863	5506	1070	1654
494+88.8	30.6	0.0	82.5	215.1	0.0	32	0	43	177	0	17895	5506	1113	1831
495+00.0	4.3	0.0	140.7	217.9	0.0	7	0	46	90	0	17902	5506	1159	1921
495+03.0	0.0	0.0	152.2	218.2	0.0	0	0	16	24	0	17902	5506	1175	1945
495+15.1	0.0	0.0	162.4	216.7	0.0	0	0	70	97	0	17902	5506	1245	2042
495+25.8	0.0	0.0	188.6	215.7	0.0	0	0	70	86	0	17902	5506	1315	2128
495+48.5	0.0	0.0	292.2	213.9	0.0	0	0	202	181	0	17902	5506	1517	2309
495+50.0	0.0	0.0	300.0	213.9	0.0	0	0	17	12	0	17902	5506	1534	2321
496+00.0	0.0	0.0	650.8	217.3	0.0	0	0	880	399	0	17902	5506	2414	2720
496+50.0	0.0	0.0	1150.2	112.8	0.0	0	0	1668	306	0	17902	5506	4082	3026
497+00.0	0.0	0.0	1489.1	253.6	0.0	0	0	2444	339	0	17902	5506	6526	3365
497+50.0	0.0	0.0	823.3	186.8	0.0	0	0	2141	408	0	17902	5506	8667	3773

EARTHWORK RAMP A STAGE 3

STATION	AREA (SF)					INCREMENTAL VOL (CY)					CUMULATIVE VOL (CY)			
	CUT	ROCK CUT	FILL	SELECT FILL	EBS	CUT	ROCK CUT	FILL	SELECT FILL	EBS	CUT	ROCK CUT	FILL	SELECT FILL
486+34.7	620.8	7.9	0.0	0.0	0.0		1.0							
486+50.0	26.3	8.0	0.0	0.0	0.0	184	5	0	0	0	184	5	0	0
487+00.0	21.9	7.1	0.0	0.0	0.0	45	14	0	0	0	229	19	0	0
487+50.0	16.0	4.8	0.0	0.0	0.0	35	11	0	0	0	264	30	0	0
488+00.0	7.4	0.0	0.0	0.0	0.0	22	4	0	0	0	286	34	0	0
488+50.0	7.1	0.0	0.0	0.0	0.0	13	0	0	0	0	299	34	0	0
489+00.0	13.9	0.0	0.0	0.0	0.0	19	0	0	0	0	318	34	0	0
489+50.0	2.2	0.0	0.0	0.0	0.0	15	0	0	0	0	333	34	0	0
490+00.0	0.7	0.0	0.0	0.0	0.0	3	0	0	0	0	336	34	0	0
490+50.0	0.3	0.0	0.0	0.0	0.0	1	0	0	0	0	337	34	0	0
491+00.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	337	34	0	0
491+50.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	337	34	0	0
492+00.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	337	34	0	0
492+50.0	4.4	0.0	0.0	0.0	0.0	4	0	0	0	0	341	34	0	0
493+00.0	41.2	0.0	0.0	0.0	0.0	42	0	0	0	0	383	34	0	0
493+42.2	83.2	0.0	0.0	0.0	0.0	97	0	0	0	0	480	34	0	0
493+50.0	87.8	0.0	0.0	0.0	0.0	25	0	0	0	0	505	34	0	0
493+95.4	91.1	0.0	0.0	0.0	0.0	150	0	0	0	0	655	34	0	0
494+00.0	90.0	0.0	0.0	0.0	0.0	16	0	0	0	0	671	34	0	0
494+50.0	175.6	0.0	0.0	0.0	0.0	246	0	0	0	0	917	34	0	0
495+00.0	0.0	0.0	0.0	0.0	0.0	163	0	0	0	0	1080	34	0	0

EARTHWORK RAMP B STAGE 2

STATION	AREA (SF)				INCREMENTAL VOL (CY)				CUMULATIVE VOL (CY)		
	CUT	FILL	SELECT FILL	EBS	CUT	FILL	SELECT FILL	EBS	CUT	FILL	SELECT FILL
499+50.0	0.0	692.6	240.4	0.0							
500+00.0	0.0	2910.7	251.6	0.0	0	3336	455	0	0	3336	455
500+50.0	0.0	3387.3	225.9	0.0	0	5831	442	0	0	9167	897
501+00.0	0.0	3220.2	170.4	0.0	0	6118	367	0	0	15285	1264
501+50.0	0.0	3125.6	169.0	0.0	0	5876	314	0	0	21161	1578
502+00.0	0.0	2735.8	169.0	0.0	0	5427	313	0	0	26588	1891
502+50.0	0.0	2305.5	169.0	0.0	0	4668	313	0	0	31256	2204
503+00.0	0.0	1935.7	168.9	0.0	0	3927	313	0	0	35183	2517
503+50.0	0.0	1652.1	170.6	0.0	0	3322	314	0	0	38505	2831
504+00.0	0.0	1377.1	171.6	0.0	0	2805	317	0	0	41310	3148
504+50.0	0.0	1107.4	171.1	0.0	0	2300	317	0	0	43610	3465
505+00.0	0.0	832.0	171.1	0.0	0	1796	317	0	0	45406	3782
505+50.0	57.5	527.9	157.8	0.0	53	1259	305	0	53	46665	4087
506+00.0	0.0	0.0	0.0	0.0	53	489	146	0	106	47154	4233

EARTHWORK RAMP B STAGE 3

STATION	AREA (SF) CUT	FILL	SELECT FILL	EBS	INCREMENTAL VOL (CY) CUT	FILL	SELECT FILL	EBS	CUMULATIVE VOL (CY) CUT	FILL	SELECT FILL
503+50.0	0.0	0.0	0.0	0.0							
504+00.0	13.1	0.0	0.0	0.0	12	0	0	0	12	0	0
504+50.0	53.6	0.0	0.0	0.0	62	0	0	0	74	0	0
505+00.0	85.9	0.0	0.0	0.0	129	0	0	0	203	0	0
505+50.0	230.3	56.3	0.0	0.0	293	52	0	0	496	52	0
506+00.0	138.8	151.2	118.4	0.0	342	192	110	0	838	244	110
506+50.0	105.9	77.0	139.1	0.0	227	211	238	0	1065	455	348
507+00.0	55.0	5.6	125.6	0.0	149	76	245	0	1214	531	593
507+50.0	4.4	31.8	127.5	0.0	55	35	234	0	1269	566	827
508+00.0	0.0	38.2	101.3	0.0	4	65	212	0	1273	631	1039
508+50.0	0.0	17.8	103.4	0.0	0	52	190	0	1273	683	1229
509+00.0	0.0	6.1	88.5	0.0	0	22	178	0	1273	705	1407
509+50.0	0.0	0.0	69.7	0.0	0	6	147	0	1273	711	1554
510+00.0	2.5	0.0	18.6	0.0	2	0	82	0	1275	711	1636
510+50.0	22.0	0.0	0.2	0.0	23	0	17	0	1298	711	1653
511+00.0	41.8	0.0	0.0	0.0	59	0	0	0	1357	711	1653
511+50.0	53.0	0.0	0.0	0.0	88	0	0	0	1445	711	1653
512+00.0	60.5	0.0	0.0	0.0	105	0	0	0	1550	711	1653
512+50.0	70.6	0.0	0.0	0.0	121	0	0	0	1671	711	1653
513+00.0	76.4	0.0	0.0	0.0	136	0	0	0	1807	711	1653
513+50.0	81.7	0.0	0.0	0.0	146	0	0	0	1953	711	1653
513+85.6	68.8	0.0	0.0	0.0	99	0	0	0	2052	711	1653

EARTHWORK RAMP D BYPASS STAGE 3

STATION	AREA (SF) CUT	FILL	SELECT FILL	EBS	INCREMENTAL VOL (CY) CUT	FILL	SELECT FILL	EBS	CUMULATIVE VOL (CY) CUT	FILL	SELECT FILL
493+74.8	0.0	1342.9	117.4	0.0							
494+00.0	0.0	1425.5	119.0	0.0	0	1290	110	0	0	1290	110
494+50.0	0.0	1527.6	119.8	0.0	0	2734	221	0	0	4024	331
495+00.0	0.0	1919.7	160.7	0.0	0	3192	260	0	0	7216	591
495+50.0	0.0	2183.0	169.8	0.0	0	3799	306	0	0	11015	897
496+00.0	0.0	2517.7	169.8	0.0	0	4353	314	0	0	15368	1211
496+50.0	0.0	2449.7	169.8	0.0	0	4599	314	0	0	19967	1525
497+00.0	0.0	3219.1	169.8	0.0	0	5249	314	0	0	25216	1839
497+50.0	0.0	2236.1	169.8	0.0	0	5051	314	0	0	30267	2153
498+00.0	0.0	1652.3	169.8	0.0	0	3600	314	0	0	33867	2467
498+50.0	57.8	892.3	171.9	0.0	54	2356	316	0	54	36223	2783
499+00.0	28.8	101.3	153.8	0.0	80	920	302	0	134	37143	3085
499+50.0	568.9	290.2	120.3	0.0	553	363	254	0	687	37506	3339
499+99.2	0.0	389.9	117.0	0.0	518	619	216	0	1205	38125	3555

EARTHWORK RAMP C STAGE 3

STATION	AREA (SF) CUT	FILL	SELECT FILL	EBS	INCREMENTAL VOL (CY) CUT	FILL	SELECT FILL	EBS	CUMULATIVE VOL (CY) CUT	FILL	SELECT FILL
497+50.0	0.0	1808.2	246.3	0.0					0	0	0
498+00.0	0.0	1594.7	181.7	0.0	0	3151	396	0	0	3151	396
498+50.0	0.0	1245.6	121.9	0.0	0	2630	281	0	0	5781	677
499+00.0	0.0	951.4	80.8	0.0	0	2034	188	0	0	7815	865
499+50.0	257.3	774.5	72.5	0.0	238	1598	142	0	238	9413	1007
500+00.0	673.5	264.5	184.2	0.0	862	962	238	0	1100	10375	1245
500+50.0	201.9	184.6	0.0	0.0	811	416	171	0	1911	10791	1416
501+00.0	224.4	423.6	75.5	0.0	395	563	70	0	2306	11354	1486
501+50.0	278.5	539.0	169.9	0.0	466	891	227	0	2772	12245	1713
502+00.0	4.4	623.5	171.4	0.0	262	1076	316	0	3034	13321	2029
502+50.0	60.6	553.3	171.4	0.0	60	1090	317	0	3094	14411	2346
503+00.0	47.2	438.8	171.4	0.0	100	919	317	0	3194	15330	2663
503+50.0	41.1	295.3	171.4	0.0	82	680	317	0	3276	16010	2980
504+00.0	15.6	121.4	164.0	0.0	53	386	310	0	3329	16396	3290
504+50.0	0.4	40.7	89.8	0.0	15	150	235	0	3344	16546	3525
505+00.0	24.2	0.0	17.0	0.0	23	38	99	0	3367	16584	3624
505+50.0	107.0	0.0	0.0	0.0	122	0	16	0	3489	16584	3640
505+75.0	162.7	0.0	0.0	0.0	125	0	0	0	3614	16584	3640
506+00.0	131.0	0.0	0.0	0.0	136	0	0	0	3750	16584	3640
506+50.0	210.2	0.0	0.0	0.0	316	0	0	0	4066	16584	3640
507+00.0	267.8	0.0	0.0	0.0	443	0	0	0	4509	16584	3640
507+50.0	280.0	0.0	0.0	0.0	507	0	0	0	5016	16584	3640
508+00.0	226.5	0.0	0.0	0.0	469	0	0	0	5485	16584	3640
508+50.0	218.0	0.0	0.0	0.0	412	0	0	0	5897	16584	3640
509+00.0	274.8	0.0	0.0	0.0	456	0	0	0	6353	16584	3640
509+50.0	292.5	0.0	0.0	0.0	525	0	0	0	6878	16584	3640
509+98.6	280.6	0.0	0.0	0.0	516	0	0	0	7394	16584	3640

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PROJECT NO: 1020-07-74 | HWY: IH 94 | COUNTY: ST. CROIX | EARTHWORK | SHEET 624 | E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090101_ew.dgn PLOT DATE : 1/5/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

EARTHWORK RAMP D STAGE 3

STATION	AREA (SF) CUT	AREA (SF) ROCK CUT	AREA (SF) FILL	AREA (SF) SELECT FILL	AREA (SF) EBS	INCREMENTAL VOL (CY) CUT	INCREMENTAL VOL (CY) ROCK CUT	INCREMENTAL VOL (CY) FILL	INCREMENTAL VOL (CY) SELECT FILL	INCREMENTAL VOL (CY) EBS	CUMULATIVE VOL (CY) CUT	CUMULATIVE VOL (CY) ROCK CUT	CUMULATIVE VOL (CY) FILL	CUMULATIVE VOL (CY) SELECT FILL
482+78.4	162.9	500.3	0.0	0.0	0.0									
483+00.0	173.2	498.2	0.0	0.0	0.0	135	400	0	0	0	135	400	0	0
483+50.0	177.7	513.6	0.0	0.0	0.0	325	937	0	0	0	460	1337	0	0
484+00.0	205.7	506.7	0.0	0.0	0.0	355	945	0	0	0	815	2282	0	0
484+50.0	190.3	536.7	0.0	0.0	0.0	367	966	0	0	0	1182	3248	0	0
485+00.0	223.9	481.0	0.0	0.0	0.0	384	942	0	0	0	1566	4190	0	0
485+50.0	268.7	390.2	0.0	0.0	0.0	456	807	0	0	0	2022	4997	0	0
486+00.0	370.0	297.1	0.0	0.0	0.0	591	636	0	0	0	2613	5633	0	0
486+50.0	431.0	210.7	0.0	0.0	0.0	742	470	0	0	0	3355	6103	0	0
487+00.0	404.1	215.5	0.0	0.0	0.0	773	395	0	0	0	4128	6498	0	0
487+50.0	366.9	230.4	18.9	0.0	0.0	714	413	18	0	0	4842	6911	18	0
488+00.0	183.1	150.2	0.0	0.0	0.0	509	352	18	0	0	5351	7263	36	0
488+50.0	137.2	137.6	0.0	0.0	0.0	297	266	0	0	0	5648	7529	36	0
489+00.0	152.4	73.6	0.0	0.0	0.0	268	196	0	0	0	5916	7725	36	0
489+50.0	226.3	0.0	0.0	0.0	0.0	351	68	0	0	0	6267	7793	36	0
490+00.0	265.0	0.0	0.0	0.0	0.0	455	0	0	0	0	6722	7793	36	0
490+50.0	354.8	0.0	0.0	0.0	0.0	574	0	0	0	0	7296	7793	36	0
491+00.0	288.6	0.0	0.0	0.0	0.0	596	0	0	0	0	7892	7793	36	0
491+50.0	165.1	0.0	84.7	0.0	0.0	420	0	78	0	0	8312	7793	114	0
492+00.0	362.5	0.0	512.4	97.0	0.0	489	0	553	90	0	8801	7793	667	90
492+50.0	0.0	0.0	1103.7	197.3	0.0	336	0	1496	273	0	9137	7793	2163	363
493+00.0	0.0	0.0	1893.7	205.3	0.0	0	0	2775	373	0	9137	7793	4938	736
493+50.0	0.0	0.0	2538.2	206.3	0.0	0	0	4104	381	0	9137	7793	9042	1117
494+00.0	0.0	0.0	1502.1	104.0	0.0	0	0	3741	287	0	9137	7793	12783	1404
494+20.0	0.0	0.0	1585.7	114.4	0.0	0	0	1144	81	0	9137	7793	13927	1485
494+50.0	0.0	0.0	1755.6	134.2	0.0	0	0	1856	138	0	9137	7793	15783	1623
495+00.0	0.0	0.0	1827.3	136.9	0.0	0	0	3317	251	0	9137	7793	19100	1874
495+50.0	0.0	0.0	2231.5	164.2	0.0	0	0	3758	279	0	9137	7793	22858	2153
496+00.0	0.0	0.0	2753.7	166.5	0.0	0	0	4616	306	0	9137	7793	27474	2459
496+50.0	0.0	0.0	2072.5	73.9	0.0	0	0	4469	223	0	9137	7793	31943	2682
497+00.0	0.0	0.0	2275.5	83.8	0.0	0	0	4026	146	0	9137	7793	35969	2828

EARTHWORK WEST MEDIAN CROSSOVER STAGE 1C2

STATION	AREA (SF) CUT	AREA (SF) FILL	AREA (SF) SELECT FILL	AREA (SF) EBS	INCREMENTAL VOL (CY) CUT	INCREMENTAL VOL (CY) FILL	INCREMENTAL VOL (CY) SELECT FILL	INCREMENTAL VOL (CY) EBS	CUMULATIVE VOL (CY) CUT	CUMULATIVE VOL (CY) FILL	CUMULATIVE VOL (CY) SELECT FILL
399+00.0	41.2	0.0	0.0	0.0							
400+00.0	48.4	2.6	0.0	0.0	166	5	0	0	166	5	0
401+00.0	33.5	24.3	0.0	0.0	152	50	0	0	318	55	0
402+00.0	24.2	118.4	0.0	0.0	107	264	0	0	425	319	0
403+00.0	28.0	192.9	0.0	0.0	97	577	0	0	522	896	0
404+00.0	23.9	277.6	0.0	0.0	96	871	0	0	618	1767	0
405+00.0	26.1	264.2	0.0	0.0	93	1003	0	0	711	2770	0
406+00.0	26.1	269.6	0.0	0.0	97	988	0	0	808	3758	0
407+00.0	27.7	238.5	0.0	0.0	100	941	0	0	908	4699	0
408+00.0	27.0	159.9	0.0	0.0	101	738	0	0	1009	5437	0
409+00.0	28.5	84.2	0.0	0.0	103	452	0	0	1112	5889	0
410+00.0	26.4	45.2	0.0	0.0	102	240	0	0	1214	6129	0
411+00.0	29.0	12.3	0.0	0.0	103	106	0	0	1317	6235	0
412+00.0	27.0	5.0	0.0	0.0	104	32	0	0	1421	6267	0
413+00.0	15.3	0.0	0.0	0.0	78	9	0	0	1499	6276	0

EARTHWORK EAST MEDIAN CROSSOVER STAGE 1C2

STATION	AREA (SF) CUT	AREA (SF) FILL	AREA (SF) SELECT FILL	AREA (SF) EBS	INCREMENTAL VOL (CY) CUT	INCREMENTAL VOL (CY) FILL	INCREMENTAL VOL (CY) SELECT FILL	INCREMENTAL VOL (CY) EBS	CUMULATIVE VOL (CY) CUT	CUMULATIVE VOL (CY) FILL	CUMULATIVE VOL (CY) SELECT FILL
526+00.0	31.9	48.6	0.0	0.0							
527+00.0	74.6	0.0	0.0	0.0	197	90	0	0	197	90	0
528+00.0	120.1	0.0	0.0	0.0	361	0	0	0	558	90	0
529+00.0	75.8	0.0	0.0	0.0	363	0	0	0	921	90	0
530+00.0	88.1	0.6	0.0	0.0	304	1	0	0	1225	91	0
531+00.0	63.1	1.6	0.0	0.0	280	4	0	0	1505	95	0
532+00.0	59.8	24.0	0.0	0.0	228	47	0	0	1733	142	0
533+00.0	58.5	64.9	0.0	0.0	219	165	0	0	1952	307	0
534+00.0	51.0	208.9	0.0	0.0	203	507	0	0	2155	814	0
535+00.0	86.7	5.3	0.0	0.0	255	397	0	0	2410	1211	0
536+00.0	43.3	85.5	0.0	0.0	241	168	0	0	2651	1379	0
537+00.0	44.4	32.8	0.0	0.0	162	219	0	0	2813	1598	0
538+00.0	44.3	8.6	0.0	0.0	164	77	0	0	2977	1675	0
539+00.0	42.9	4.7	0.0	0.0	161	25	0	0	3138	1700	0
540+00.0	21.3	0.8	0.0	0.0	119	10	0	0	3257	1710	0
541+00.0	20.9	1.4	0.0	0.0	78	4	0	0	3335	1714	0
542+00.0	19.4	2.9	0.0	0.0	75	8	0	0	3410	1722	0
543+00.0	20.0	2.4	0.0	0.0	73	10	0	0	3483	1732	0
544+00.0	20.3	1.4	0.0	0.0	75	7	0	0	3558	1739	0
545+00.0	20.7	1.0	0.0	0.0	76	4	0	0	3634	1743	0
546+00.0	19.8	0.0	0.0	0.0	75	2	0	0	3709	1745	0
547+00.0	20.1	0.0	0.0	0.0	74	0	0	0	3783	1745	0
548+00.0	21.9	0.0	0.0	0.0	78	0	0	0	3861	1745	0

EARTHWORK D1 RAMP (STAGE 1A)

STATION	AREA (SF) CUT	AREA (SF) FILL	AREA (SF) SELECT FILL	AREA (SF) EBS	INCREMENTAL VOL (CY) CUT	INCREMENTAL VOL (CY) FILL	INCREMENTAL VOL (CY) SELECT FILL	INCREMENTAL VOL (CY) EBS	CUMULATIVE VOL (CY) CUT	CUMULATIVE VOL (CY) FILL	CUMULATIVE VOL (CY) SELECT FILL
484+68.0	1765.0	30.0	0.0	0.0							
485+00.0	955.0	40.0	0.0	0.0	1612	41	0	0	1612	41	0
485+50.0	179.0	75.0	0.0	0.0	1050	106	0	0	2662	147	0
486+00.0	14.0	154.0	0.0	0.0	179	212	0	0	2841	359	0
486+50.0	0.0	229.0	0.0	0.0	13	355	0	0	2854	714	0
487+00.0	2.0	270.0	0.0	0.0	2	462	0	0	2856	1176	0
487+50.0	6.0	331.0	0.0	0.0	7	556	0	0	2863	1732	0
488+00.0	5.0	405.0	0.0	0.0	10	681	0	0	2873	2413	0
488+50.0	6.0	467.0	0.0	0.0	10	807	0	0	2883	3220	0
489+00.0	8.0	483.0	0.0	0.0	13	880	0	0	2896	4100	0
489+50.0	13.0	539.0	0.0	0.0	19	946	0	0	2915	5046	0
490+00.0	18.0	550.0	0.0	0.0	29	1008	0	0	2944	6054	0
490+50.0	24.0	488.0	0.0	0.0	39	961	0	0	2983	7015	0
491+00.0	26.0	342.0	0.0	0.0	46	769	0	0	3029	7784	0
491+50.0	48.0	112.0	0.0	0.0	69	420	0	0	3098	8204	0
492+00.0	30.0	0.0	0.0	0.0	72	104	0	0	3170	8308	0
492+50.0	0.0	0.0	0.0	0.0	28	0	0	0	3198	8308	0

EARTHWORK C1 RAMP (STAGE 1B)

STATION	AREA (SF) CUT	AREA (SF) FILL	AREA (SF) SELECT FILL	AREA (SF) EBS	INCREMENTAL VOL (CY) CUT	INCREMENTAL VOL (CY) FILL	INCREMENTAL VOL (CY) SELECT FILL	INCREMENTAL VOL (CY) EBS	CUMULATIVE VOL (CY) CUT	CUMULATIVE VOL (CY) FILL	CUMULATIVE VOL (CY) SELECT FILL
516+68.0	0.0	194.0	0.0	0.0							
517+00.0	0.0	157.0	0.0	0.0	0	208	0	0	0	208	0
517+50.0	0.0	121.0	0.0	0.0	0	257	0	0	0	465	0
518+00.0	0.0	70.0	0.0	0.0	0	177	0	0	0	642	0
518+50.0	0.0	52.0	0.0	0.0	0	113	0	0	0	755	0
519+00.0	0.0	94.0	0.0	0.0	0	135	0	0	0	890	0
519+50.0	0.0	216.0	0.0	0.0	0	287	0	0	0	1177	0
520+00.0	0.0	448.0	0.0	0.0	0	615	0	0	0	1792	0
520+50.0	0.0	660.0	0.0	0.0	0	1026	0	0	0	2818	0
521+00.0	0.0	759.0	0.0	0.0	0	1314	0	0	0	4132	0
521+50.0	0.0	818.0	0.0	0.0	0	1460	0	0	0	5592	0
522+00.0	0.0	778.0	0.0	0.0	0	1478	0	0	0	7070	0
522+50.0	0.0	678.0	0.0	0.0	0	1348	0	0	0	8418	0
523+00.0	0.0	5050.0	0.0	0.0	0	5304	0	0	0	13722	0
523+50.0	0.0	280.0	0.0	0.0	0	4935	0	0	0	18657	0
524+00.0	12.0	156.0	0.0	0.0	11	404	0	0	11	19061	0
524+50.0	0.0	136.0	0.0	0.0	11	270	0	0	22	19331	0
525+00.0	16.0	45.0	0.0	0.0	15	168	0	0	37	19499	0
525+50.0	26.0	0.0	0.0	0.0	39	42	0	0	76	19541	0
526+00.0	0.0	0.0	0.0	0.0	24	0	0	0	100	19541	0

EARTHWORK A1 RAMP (STAGE 1D)

STATION	AREA (SF) CUT	AREA (SF) FILL	AREA (SF) SELECT FILL	AREA (SF) EBS	INCREMENTAL VOL (CY) CUT	INCREMENTAL VOL (CY) FILL	INCREMENTAL VOL (CY) SELECT FILL	INCREMENTAL VOL (CY) EBS	CUMULATIVE VOL (CY) CUT	CUMULATIVE VOL (CY) FILL	CUMULATIVE VOL (CY) SELECT FILL
493+00.0	0.0	232.0	0.0	0.0							
493+50.0	0.0	199.0	0.0	0.0	0	399	0	0	0	399	0
494+00.0	4.0	139.0	0.0	0.0	4	313	0	0	4	712	0
494+50.0	21.0	64.0	0.0	0.0	23	188	0	0	27	900	0
495+00.0	17.0	13.0	0.0	0.0	35	71	0	0	62	971	0
495+50.0	0.0	0.0	0.0	0.0	16	12	0	0	78	983	0

EARTHWORK B1 RAMP (STAGE 1D)

STATION	AREA (SF) CUT	AREA (SF) FILL	AREA (SF) SELECT FILL	AREA (SF) EBS	INCREMENTAL VOL (CY) CUT	INCREMENTAL VOL (CY) FILL	INCREMENTAL VOL (CY) SELECT FILL	INCREMENTAL VOL (CY) EBS	CUMULATIVE VOL (CY) CUT	CUMULATIVE VOL (CY) FILL	CUMULATIVE VOL (CY) SELECT FILL
504+00.0	0.0	0.0	0.0	0.0							
504+50.0	15.0	0.0	0.0	0.0	14	0	0	0	14	0	0
505+00.0	16.0	0.0	0.0	0.0	29	0	0	0	43	0	0
505+50.0	18.0	0.0	0.0	0.0	31	0	0	0	74	0	0
506+00.0	36.0	0.0	0.0	0.0	50	0	0	0	124	0	0
506+50.0	14.0	0.0	0.0	0.0	46	0	0	0	170	0	0
507+00.0	0.0	41.0	0.0	0.0	13	38	0	0	183	38	0
507+50.0	11.0	127.0	0.0	0.0	10	156	0	0	193	194	0
508+00.0	64.0	0.0	0.0	0.0	69	118	0	0	262	312	0
508+50.0	38.0	33.0	0.0	0.0	94	31	0	0	356	343	0
509+00.0	12.0	16.0	0.0	0.0	46	45	0	0	402	388	0
509+50.0	15.0	8.0	0.0	0.0	25	22	0	0	427	410	0
509+95.0	14.0	15.0	0.0	0.0	24	19	0	0	451	429	0

EARTHWORK A2 RAMP (STAGE 2A)

STATION	AREA (SF) CUT	AREA (SF) FILL	AREA (SF) SELECT FILL	AREA (SF) EBS	INCREMENTAL VOL (CY) CUT	INCREMENTAL VOL (CY) FILL	INCREMENTAL VOL (CY) SELECT FILL	INCREMENTAL VOL (CY) EBS	CUMULATIVE VOL (CY) CUT	CUMULATIVE VOL (CY) FILL	CUMULATIVE VOL (CY) SELECT FILL
493+00.0	0.0	0.0	0.0	0.0							
493+50.0	8.0	0.0	0.0	0.0	7	0	0	0	7	0	0
494+00.0	3.0	28.0	0.0	0.0	10	26	0	0	17	26	0
494+50.0	0.0	49.0	0.0	0.0	3	71	0	0	20	97	0
495+00.0	0.0	85.0	0.0	0.0	0	124	0	0	20	221	0
495+50.0	11.0	39.0	0.0	0.0	10	115	0	0	30	336	0
496+00.0	17.0	0.0	0.0	0.0	26	36	0	0	56	372	0
496+50.0	0.0	0.0	0.0	0.0	16	0	0	0	72	372	0

EARTHWORK B2 RAMP (STAGE 2A)

STATION	AREA (SF) CUT	FILL	SELECT FILL	EBS	INCREMENTAL VOL (CY) CUT	FILL	SELECT FILL	EBS	CUMULATIVE VOL (CY) CUT	FILL	SELECT FILL
504+52.0	31.0	0.0	0.0	0.0							
505+00.0	32.0	0.0	0.0	0.0	56	0	0	0	56	0	0
505+50.0	30.0	0.0	0.0	0.0	57	0	0	0	113	0	0
505+58.0	29.0	1.0	0.0	0.0	9	0	0	0	122	0	0
506+00.0	33.0	13.0	0.0	0.0	48	11	0	0	170	11	0
506+50.0	21.0	38.0	0.0	0.0	50	47	0	0	220	58	0
507+00.0	70.0	48.0	0.0	0.0	84	80	0	0	304	138	0
507+50.0	97.0	59.0	0.0	0.0	155	99	0	0	459	237	0
508+00.0	242.0	64.0	0.0	0.0	314	114	0	0	773	351	0
508+50.0	199.0	54.0	0.0	0.0	408	109	0	0	1181	460	0
509+00.0	184.0	50.0	0.0	0.0	355	96	0	0	1536	556	0
509+50.0	238.0	0.0	0.0	0.0	391	46	0	0	1927	602	0
510+00.0	204.0	0.0	0.0	0.0	409	0	0	0	2336	602	0

EARTHWORK C2 RAMP (STAGE 2A)

STATION	AREA (SF) CUT	FILL	SELECT FILL	EBS	INCREMENTAL VOL (CY) CUT	FILL	SELECT FILL	EBS	CUMULATIVE VOL (CY) CUT	FILL	SELECT FILL
499+61.0	7.0	0.0	0.0	0.0							
500+00.0	7.0	16.0	0.0	0.0	10	12	0	0	10	12	0
500+50.0	4.0	30.0	0.0	0.0	10	43	0	0	20	55	0
500+80.0	6.0	21.0	0.0	0.0	6	28	0	0	26	83	0
501+00.0	3.0	17.0	0.0	0.0	3	14	0	0	29	97	0
501+50.0	6.0	44.0	0.0	0.0	8	56	0	0	37	153	0
502+00.0	270.0	0.0	0.0	0.0	256	41	0	0	293	194	0
502+50.0	215.0	4.0	0.0	0.0	449	4	0	0	742	198	0
503+00.0	84.0	0.0	0.0	0.0	277	4	0	0	1019	202	0
503+50.0	57.0	0.0	0.0	0.0	131	0	0	0	1150	202	0
503+72.0	50.0	0.0	0.0	0.0	44	0	0	0	1194	202	0

EARTHWORK XD RAMP (STAGE 2B)

STATION	AREA (SF) CUT	FILL	SELECT FILL	EBS	INCREMENTAL VOL (CY) CUT	FILL	SELECT FILL	EBS	CUMULATIVE VOL (CY) CUT	FILL	SELECT FILL
438+55.00	0.0	0.0	0.0	0.0							
439+00.00	3.4	3.0	0.0	0.0	3	3	0	0	3	3	0
439+22.00	8.8	8.3	0.0	0.0	5	5	0	0	8	8	0
439+50.00	11.5	9.9	0.0	0.0	11	9	0	0	19	17	0
440+00.00	14.1	0.0	0.0	0.0	24	9	0	0	43	26	0
440+23.00	14.8	0.0	0.0	0.0	12	0	0	0	55	26	0
440+50.00	16.6	0.0	0.0	0.0	16	0	0	0	71	26	0

EARTHWORK D2 RAMP (STAGE 2A)

STATION	AREA (SF) CUT	FILL	SELECT FILL	EBS	INCREMENTAL VOL (CY) CUT	FILL	SELECT FILL	EBS	CUMULATIVE VOL (CY) CUT	FILL	SELECT FILL
489+09.0	46.0	0.0	0.0	0.0							
489+50.0	60.0	0.0	0.0	0.0	80	0	0	0	80	0	0
490+00.0	59.0	0.0	0.0	0.0	110	0	0	0	190	0	0
490+50.0	57.0	13.0	0.0	0.0	107	12	0	0	297	12	0
491+00.0	95.0	5.0	0.0	0.0	141	17	0	0	438	29	0
491+50.0	101.0	0.0	0.0	0.0	181	5	0	0	619	34	0
492+00.0	0.0	80.0	0.0	0.0	94	74	0	0	713	108	0
492+50.0	0.0	516.0	0.0	0.0	0	552	0	0	713	660	0
493+00.0	3.0	163.0	0.0	0.0	3	629	0	0	716	1289	0
493+50.0	0.0	0.0	0.0	0.0	3	151	0	0	719	1440	0
494+00.0	0.0	90.0	0.0	0.0	0	83	0	0	719	1523	0
494+50.0	0.0	411.0	0.0	0.0	0	464	0	0	719	1987	0
495+00.0	0.0	561.0	0.0	0.0	0	900	0	0	719	2887	0
495+50.0	5.0	538.0	0.0	0.0	5	1018	0	0	724	3905	0
496+00.0	21.0	316.0	0.0	0.0	24	791	0	0	748	4696	0
496+50.0	18.0	0.0	0.0	0.0	36	293	0	0	784	4989	0
497+00.0	0.0	0.0	0.0	0.0	17	0	0	0	801	4989	0

EARTHWORK B3 RAMP (STAGE 3D)

STATION	AREA (SF) CUT	FILL	SELECT FILL	EBS	INCREMENTAL VOL (CY) CUT	FILL	SELECT FILL	EBS	CUMULATIVE VOL (CY) CUT	FILL	SELECT FILL
503+00.00	0.0	0.0	0.0	0.0							
503+50.00	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0
504+00.00	3.0	2.7	0.0	0.0	3	2	0	0	3	2	0
504+50.00	4.5	25.0	0.0	0.0	7	26	0	0	10	28	0
505+00.00	26.3	52.1	0.0	0.0	28	71	0	0	38	99	0
505+50.00	24.9	123.8	0.0	0.0	47	163	0	0	85	262	0
506+00.00	18.6	102.1	0.0	0.0	40	209	0	0	125	471	0
506+50.00	14.0	81.4	0.0	0.0	30	170	0	0	155	641	0
507+00.00	16.1	44.2	0.0	0.0	28	116	0	0	183	757	0
507+50.00	31.3	17.6	0.0	0.0	44	57	0	0	227	814	0
508+00.00	47.4	0.6	0.0	0.0	73	17	0	0	300	831	0
508+50.00	42.9	0.6	0.0	0.0	84	1	0	0	384	832	0
509+00.00	24.2	0.0	0.0	0.0	62	1	0	0	446	833	0
509+50.00	0.0	0.0	0.0	0.0	22	0	0	0	468	833	0
510+00.00	0.0	0.0	0.0	0.0	0	0	0	0	468	833	0

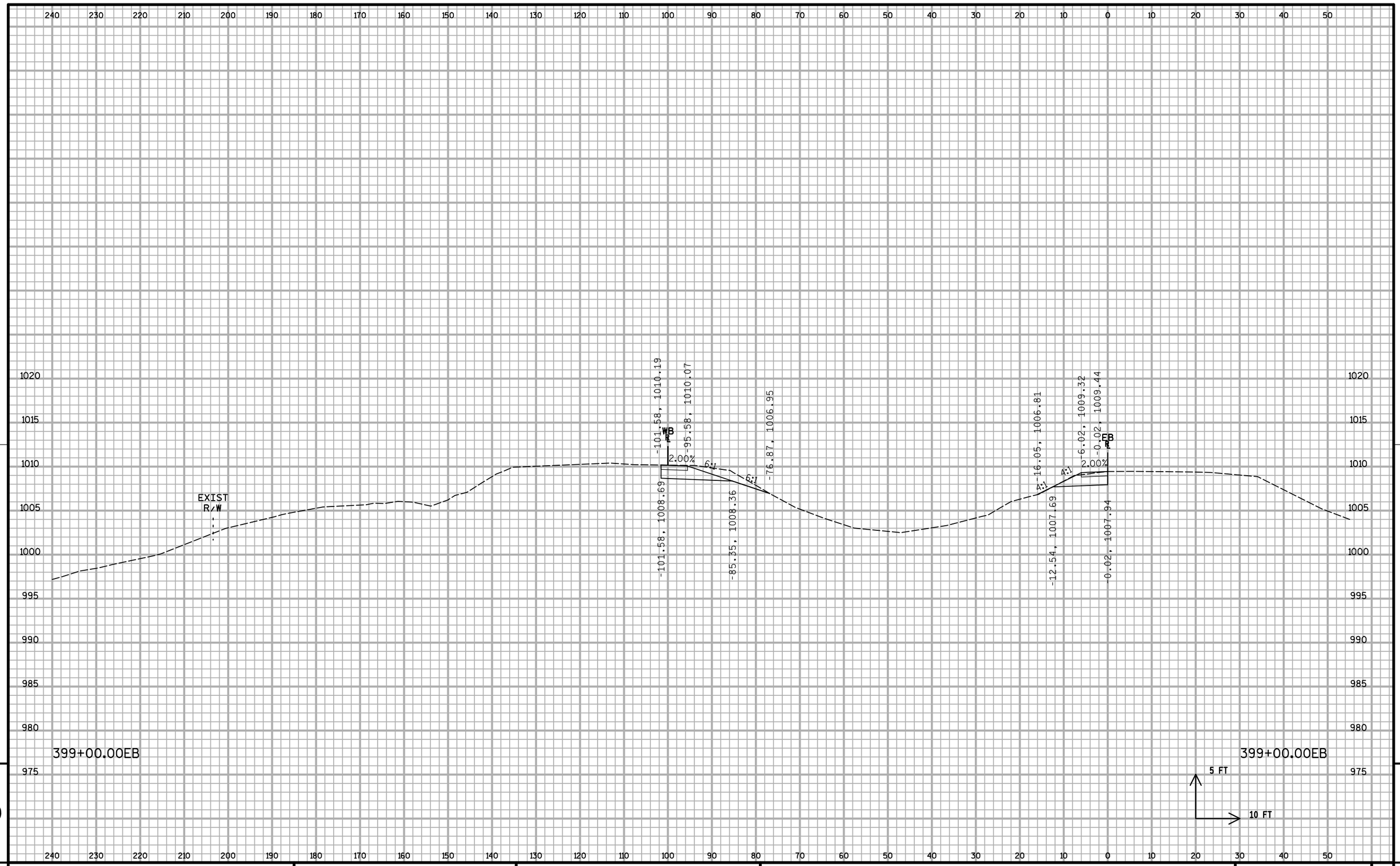
EARTHWORK PARK AND RIDE

STATION	AREA (SF)				INCREMENTAL VOL (CY)				CUMULATIVE VOL (CY)		
	CUT	FILL	SELECT FILL	EBS	CUT	FILL	SELECT FILL	EBS	CUT	FILL	SELECT FILL
10+60.00	37.8	33.2	0.0	0.0							
10+75.00	0.0	54.4	0.0	0.0	10	24	0	0	10	24	0
10+82.00	25.8	85.3	0.0	0.0	3	18	0	0	13	42	0
11+00.00	15.5	151.6	0.0	0.0	14	79	0	0	27	121	0
11+25.00	57.0	146.7	0.0	0.0	34	138	0	0	61	259	0
11+50.00	66.5	233.4	0.0	0.0	57	176	0	0	118	435	0
11+75.00	61.7	273.8	0.0	0.0	59	235	0	0	177	670	0
12+00.00	68.1	178.5	0.0	0.0	60	209	0	0	237	879	0
12+50.00	109.1	30.1	0.0	0.0	164	193	0	0	401	1072	0
13+00.00	137.5	7.6	0.0	0.0	228	35	0	0	629	1107	0
13+50.00	182.0	39.0	0.0	0.0	296	43	0	0	925	1150	0
13+65.00	235.3	5.9	0.0	0.0	116	12	0	0	1041	1162	0
13+74.00	241.8	0.8	0.0	0.0	80	1	0	0	1121	1163	0
13+82.00	243.5	0.0	0.0	0.0	72	0	0	0	1193	1163	0
14+00.00	0.0	0.0	0.0	0.0	81	0	0	0	1274	1163	0

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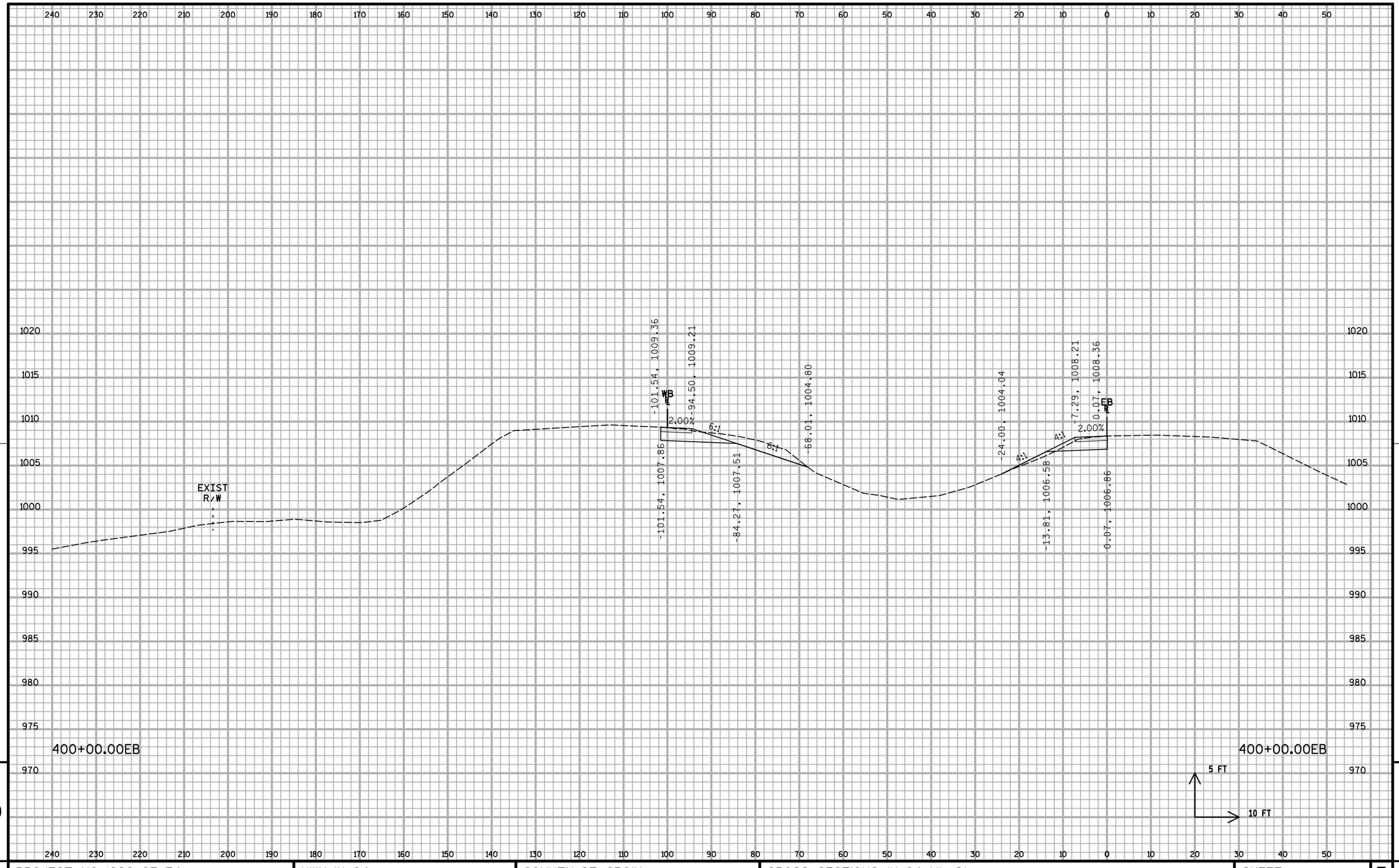
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	EARTHWORK	SHEET 628	E



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



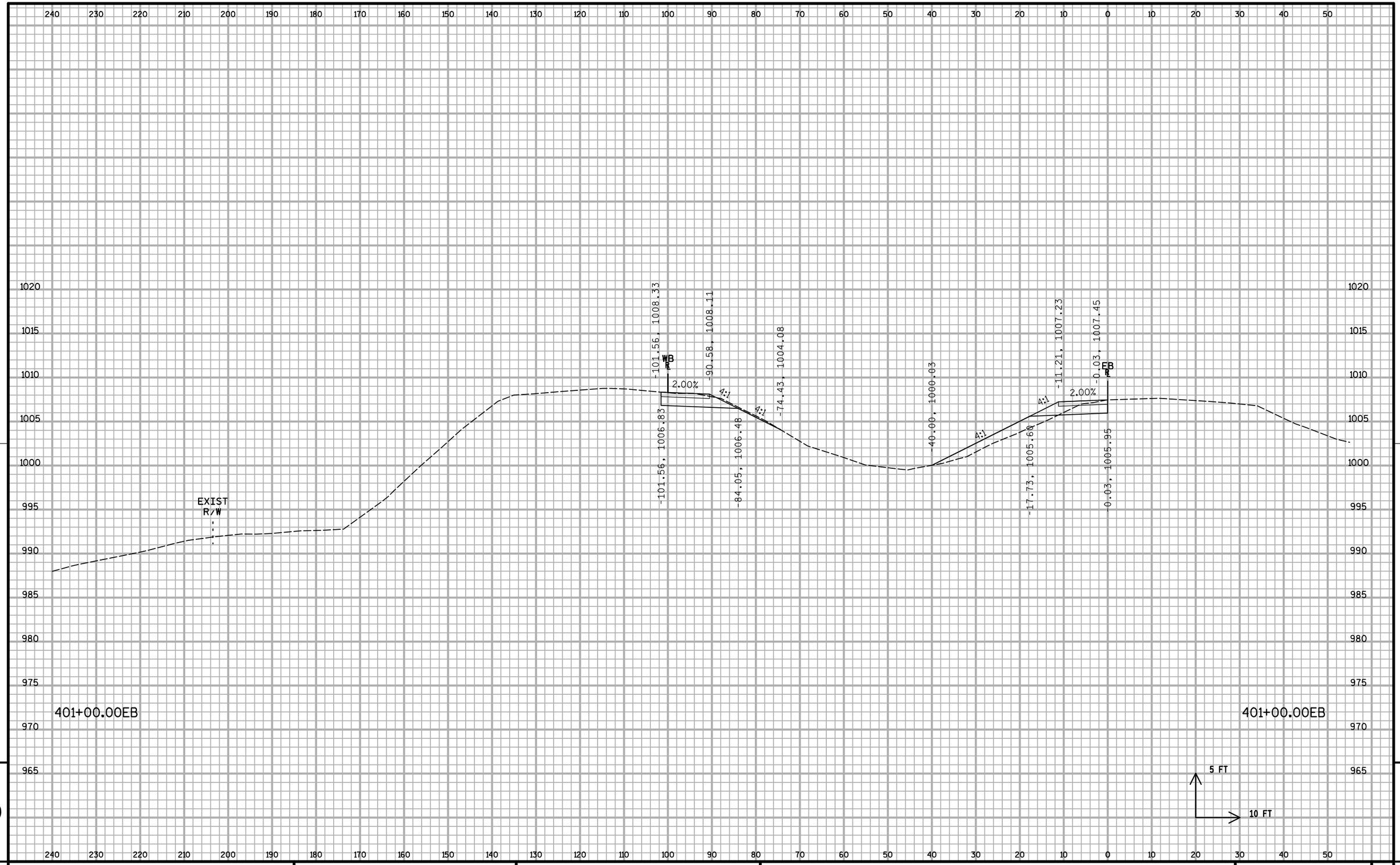
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET: 630	E

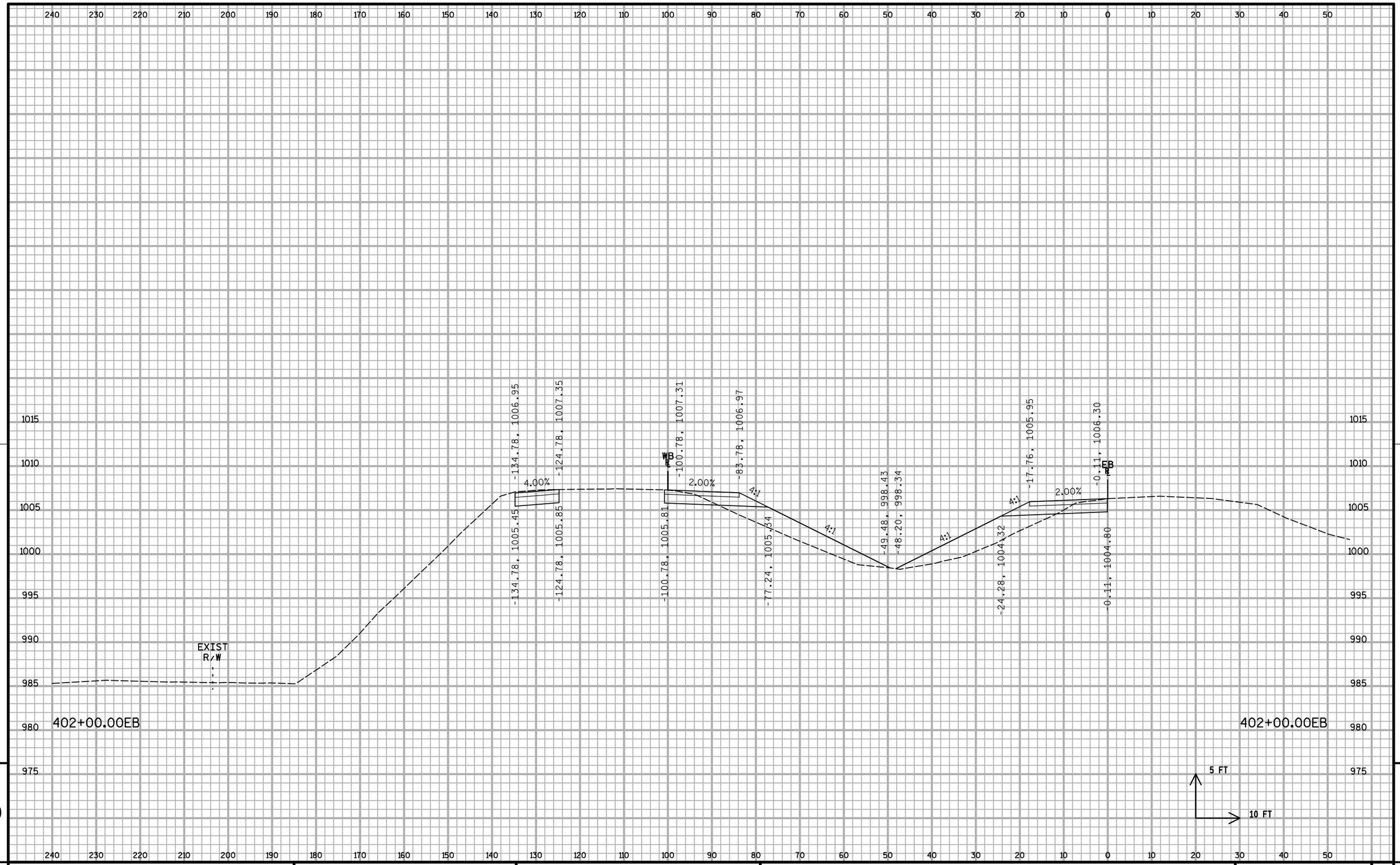
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WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

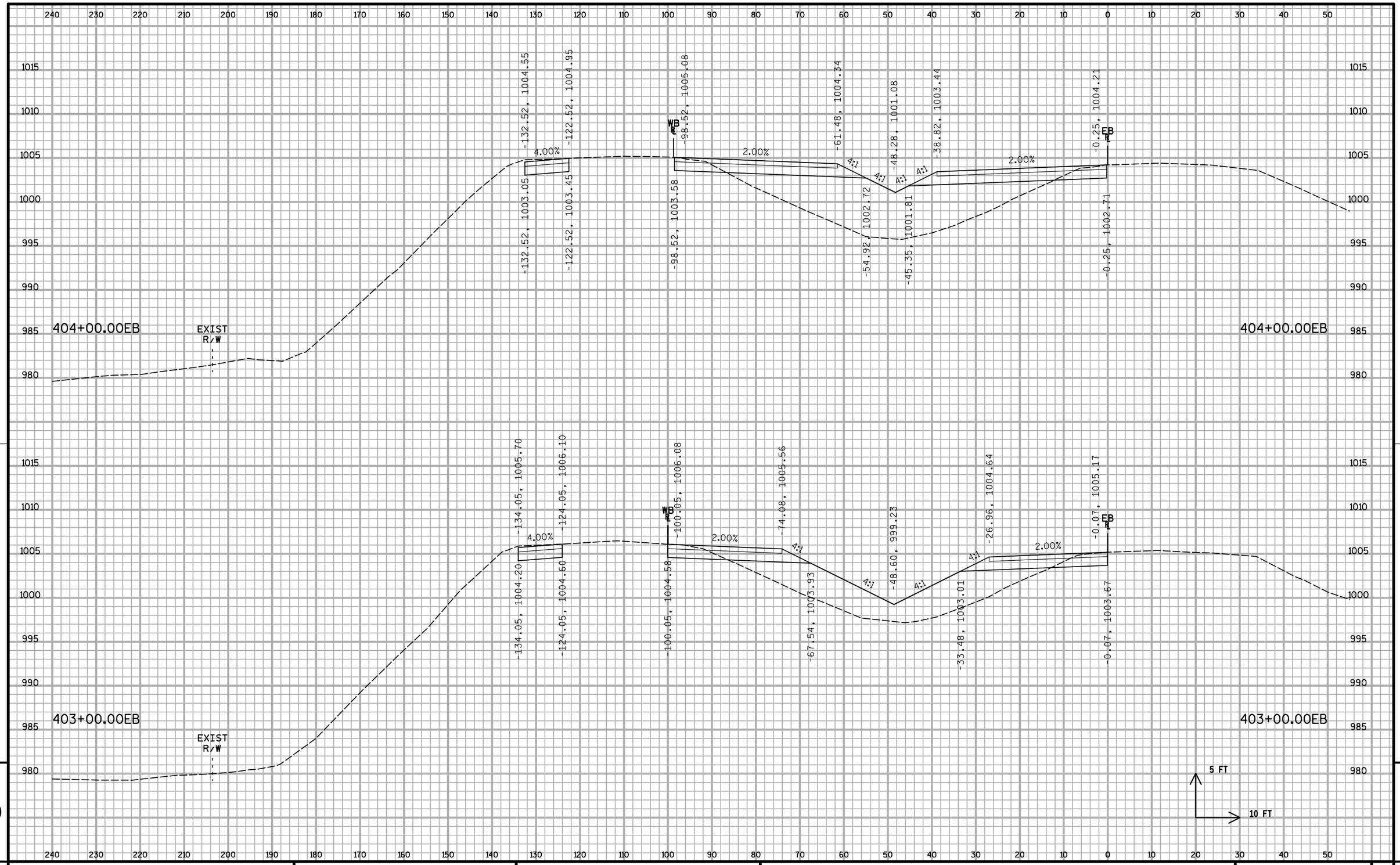
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

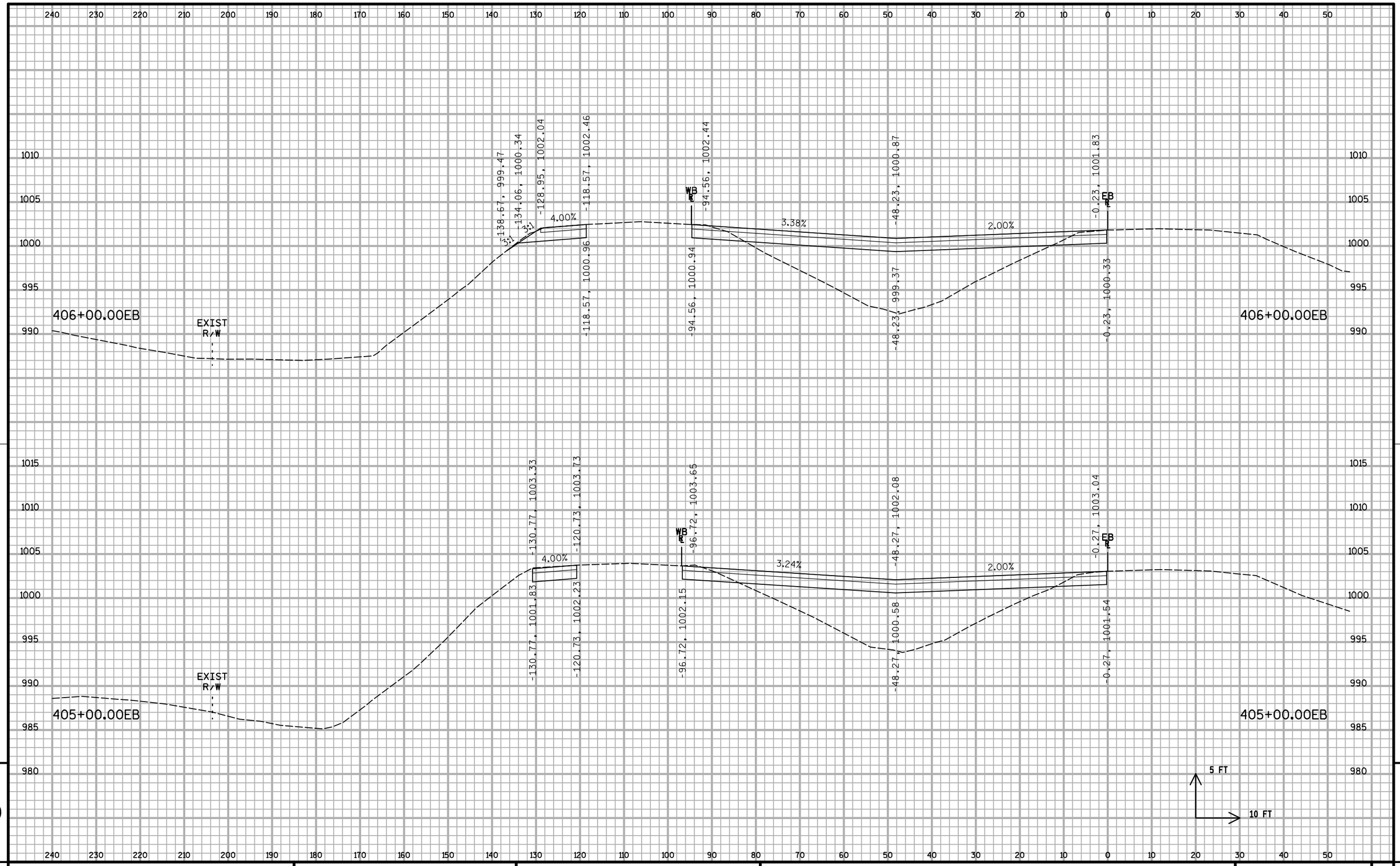
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET: E

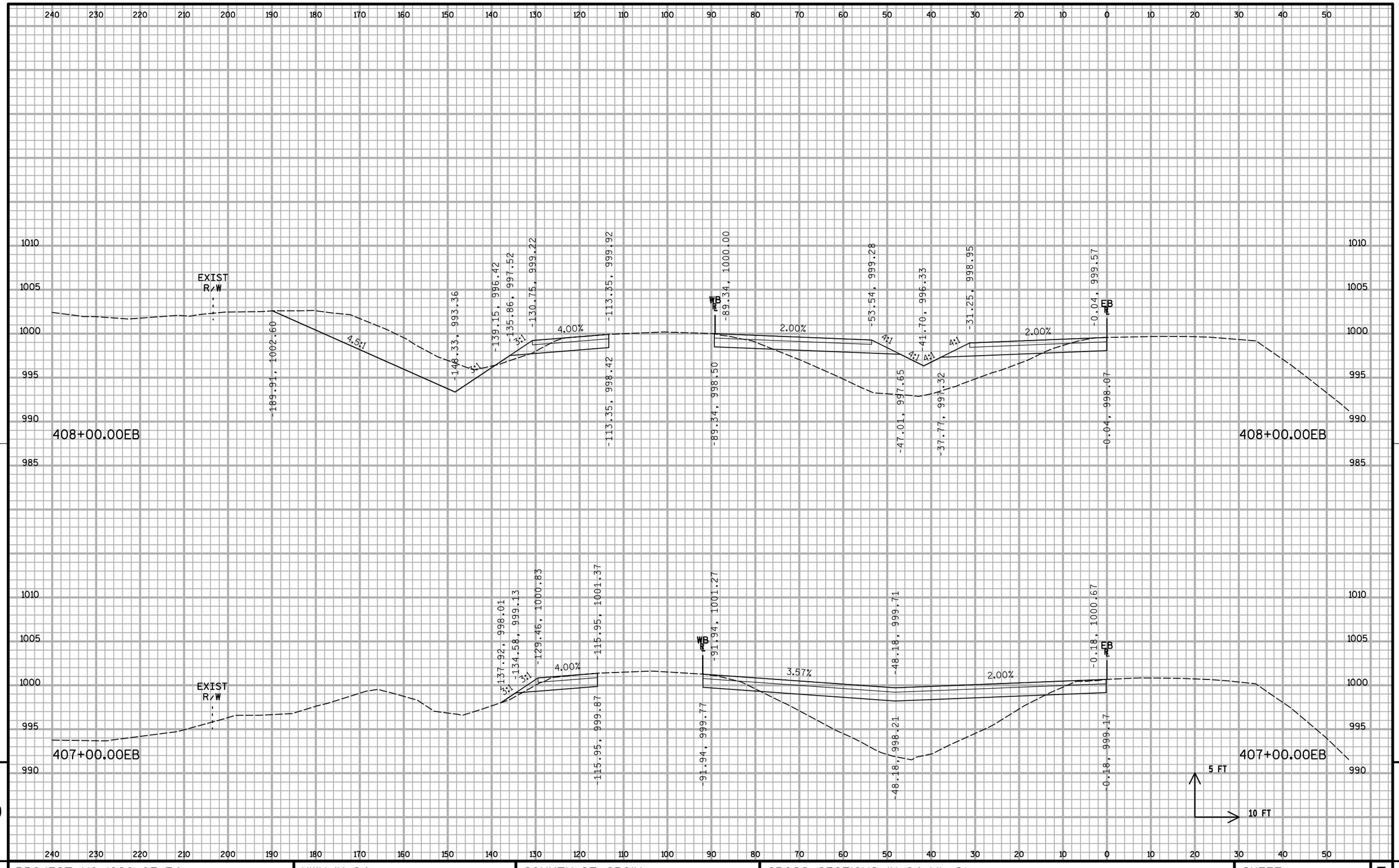
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WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



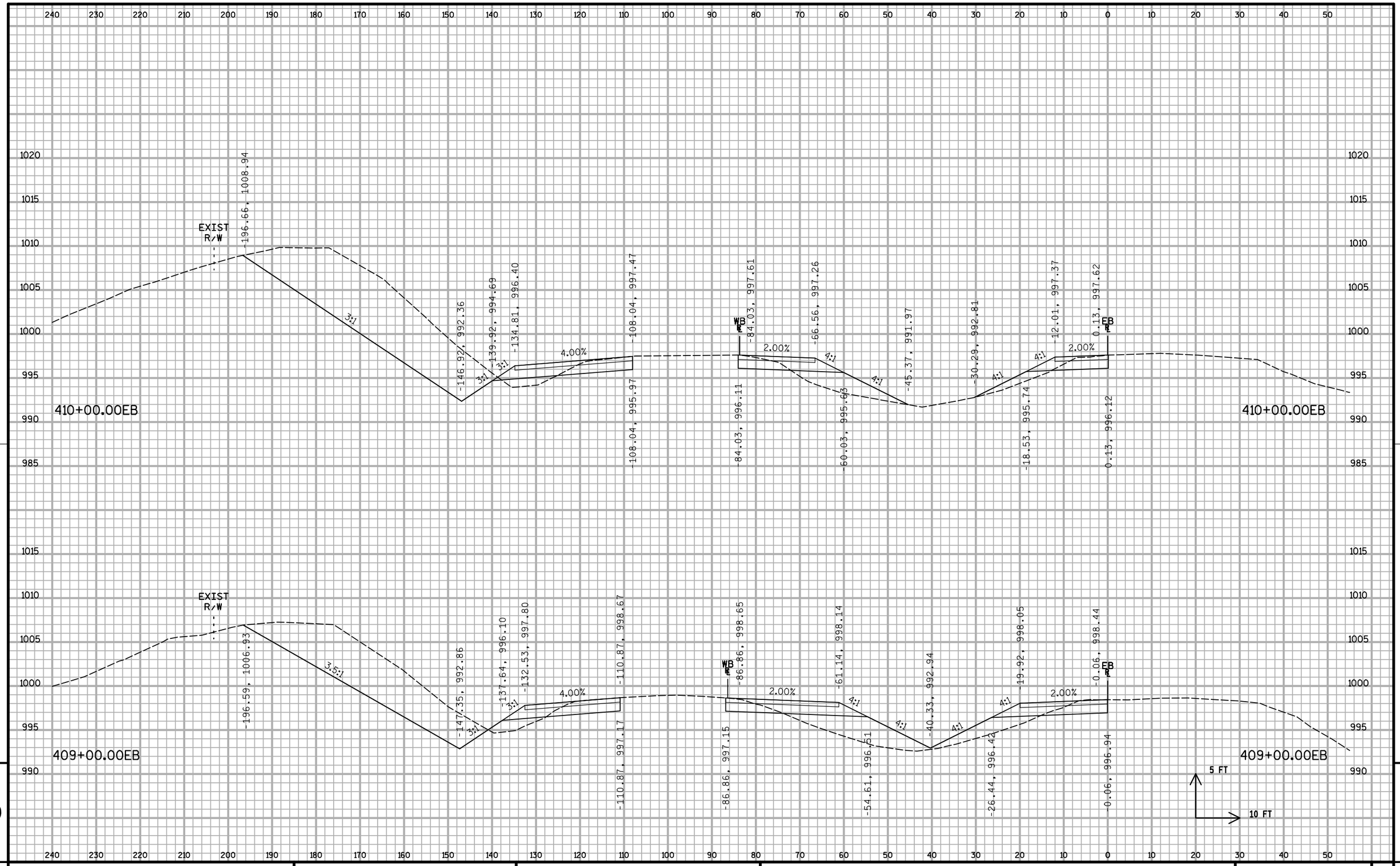
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET: 635	E

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WISDOT/CADDS SHEET 21

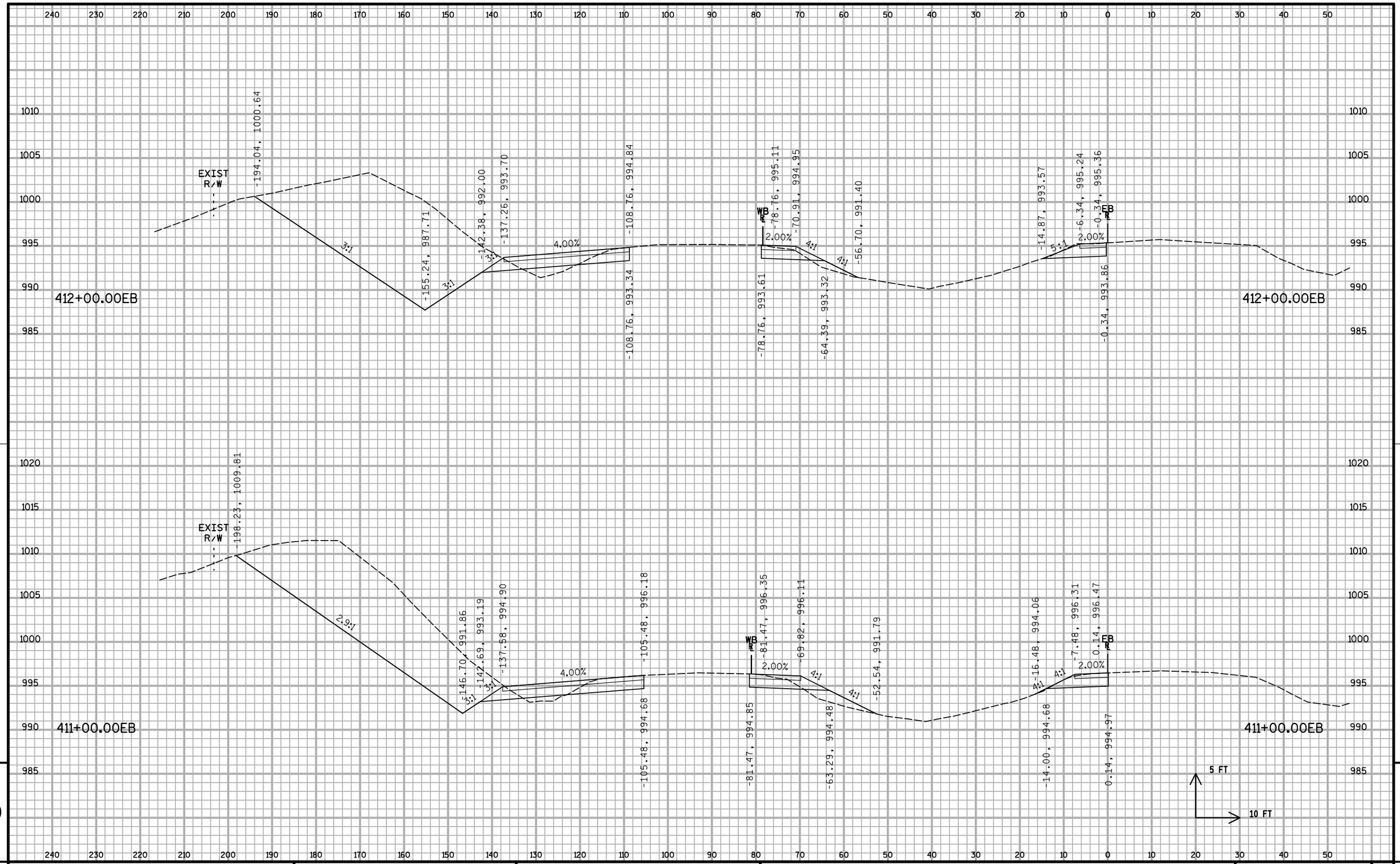


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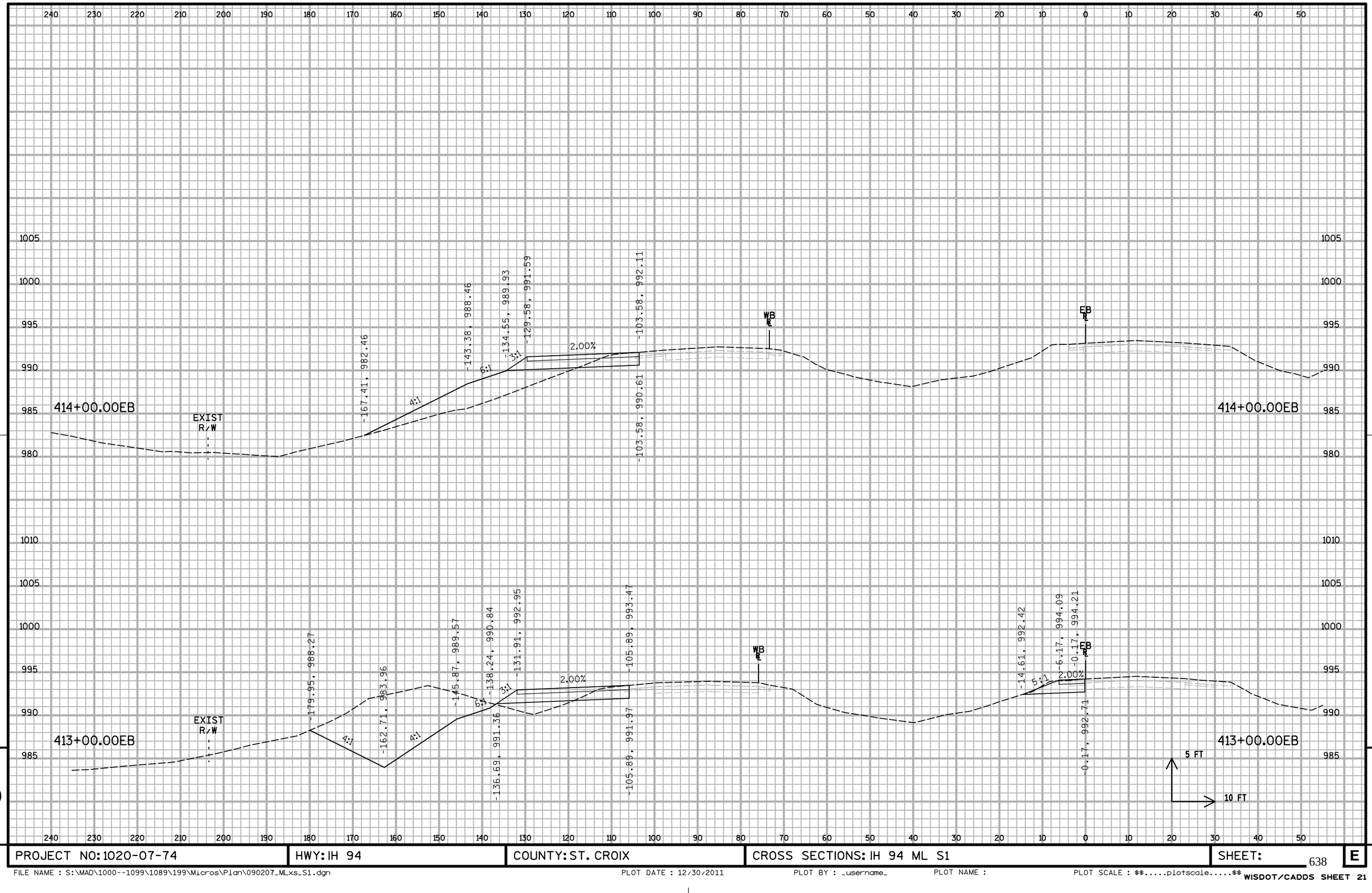
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

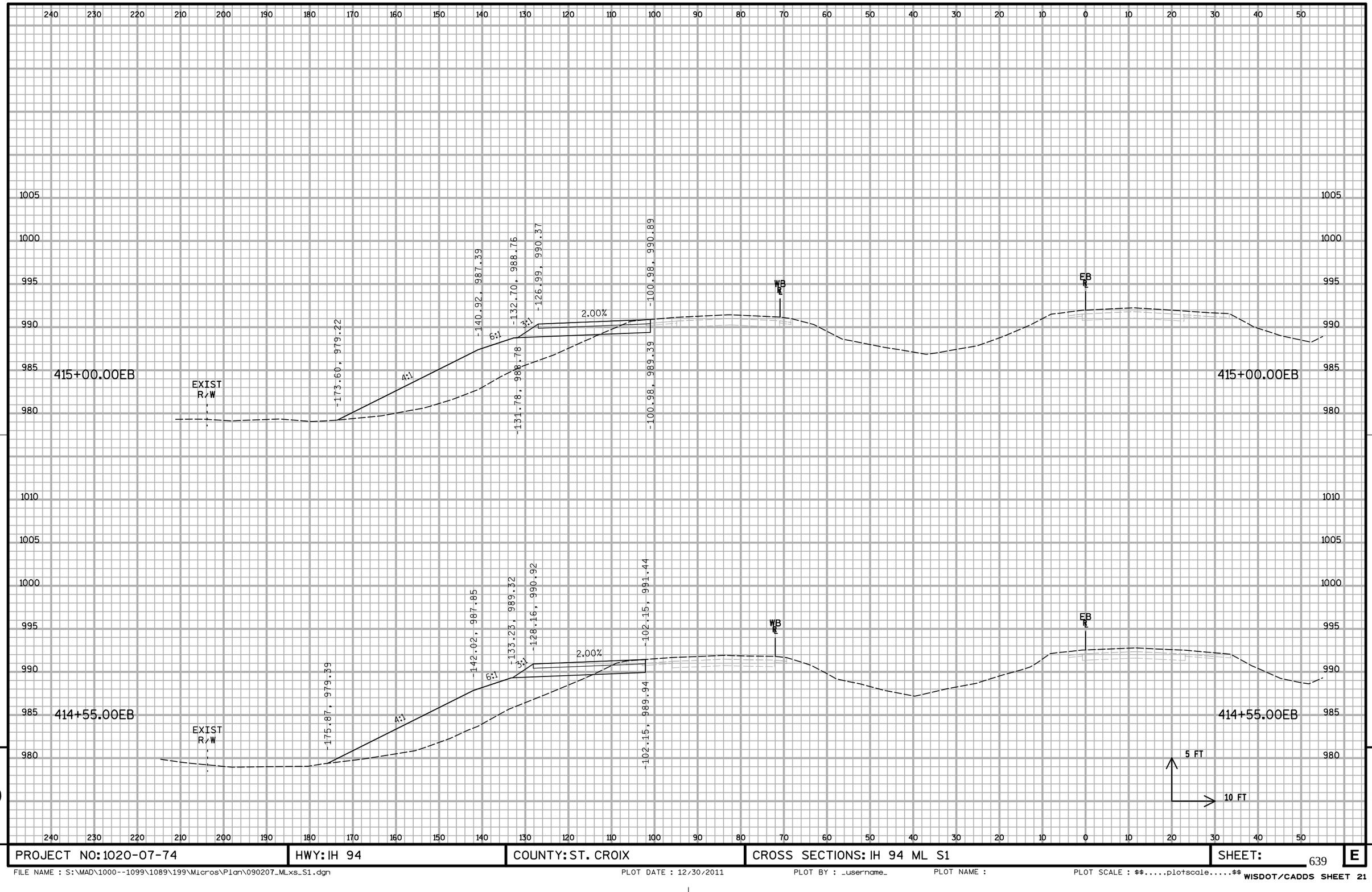
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

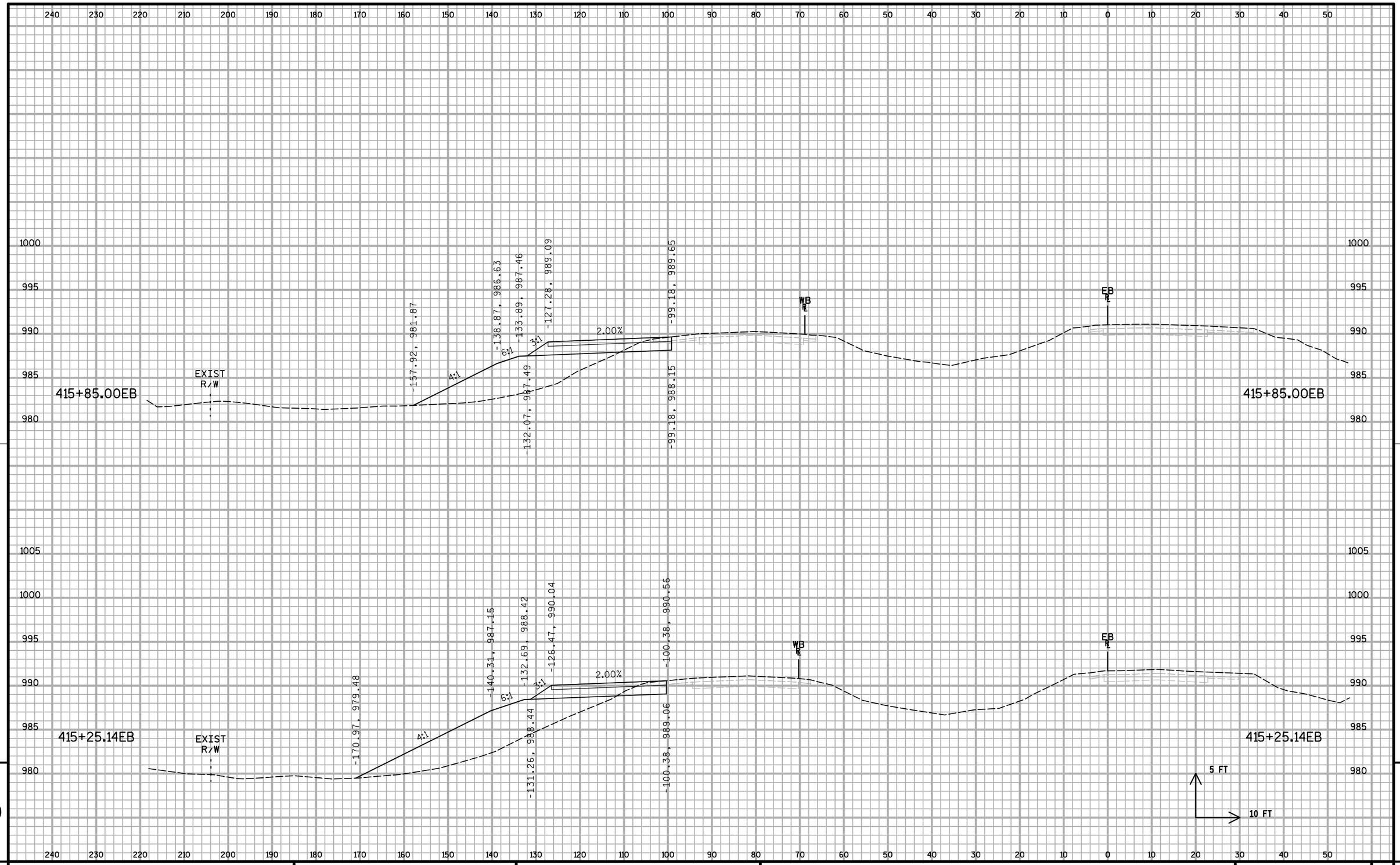


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

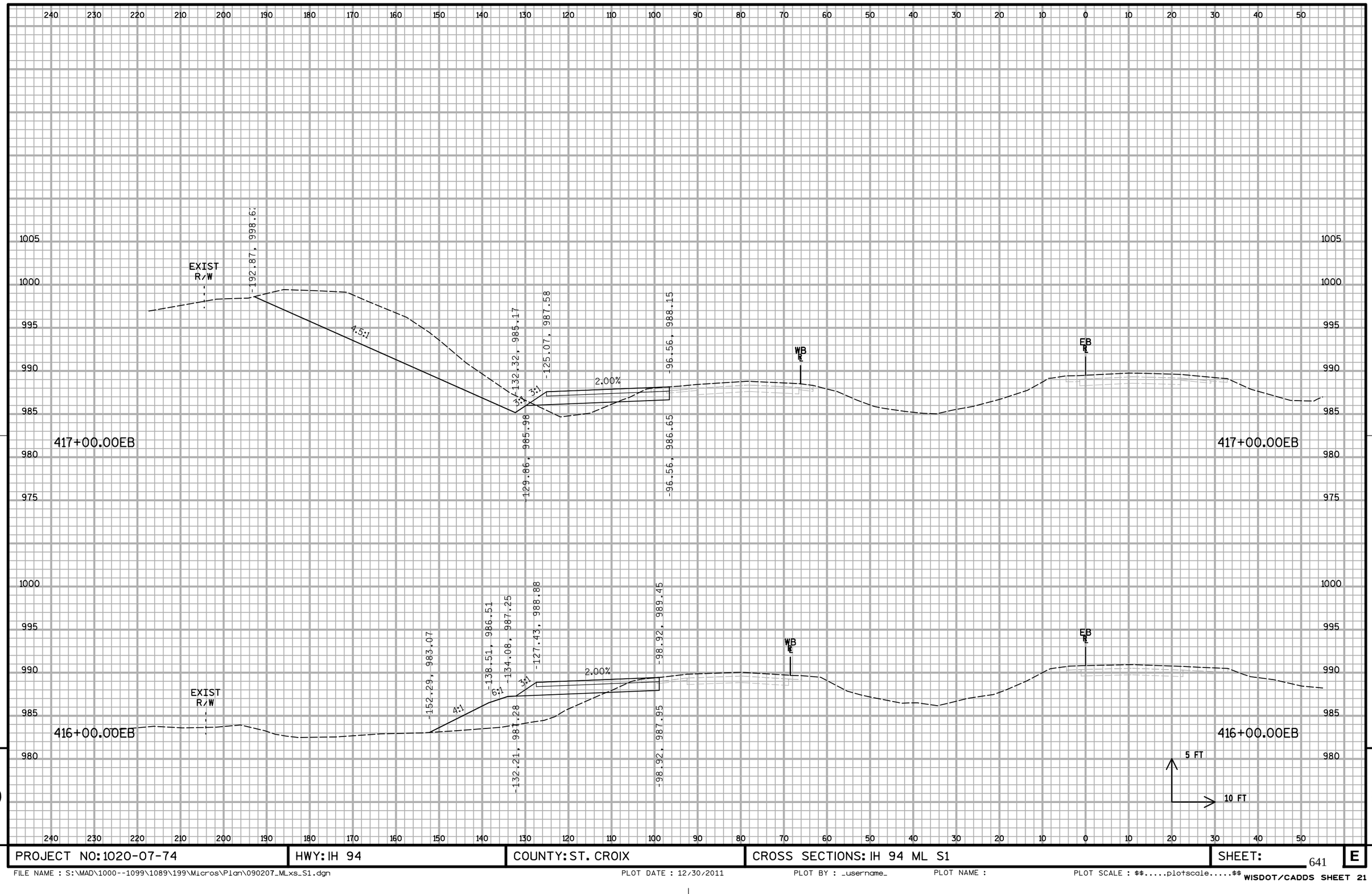


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET: 640	E

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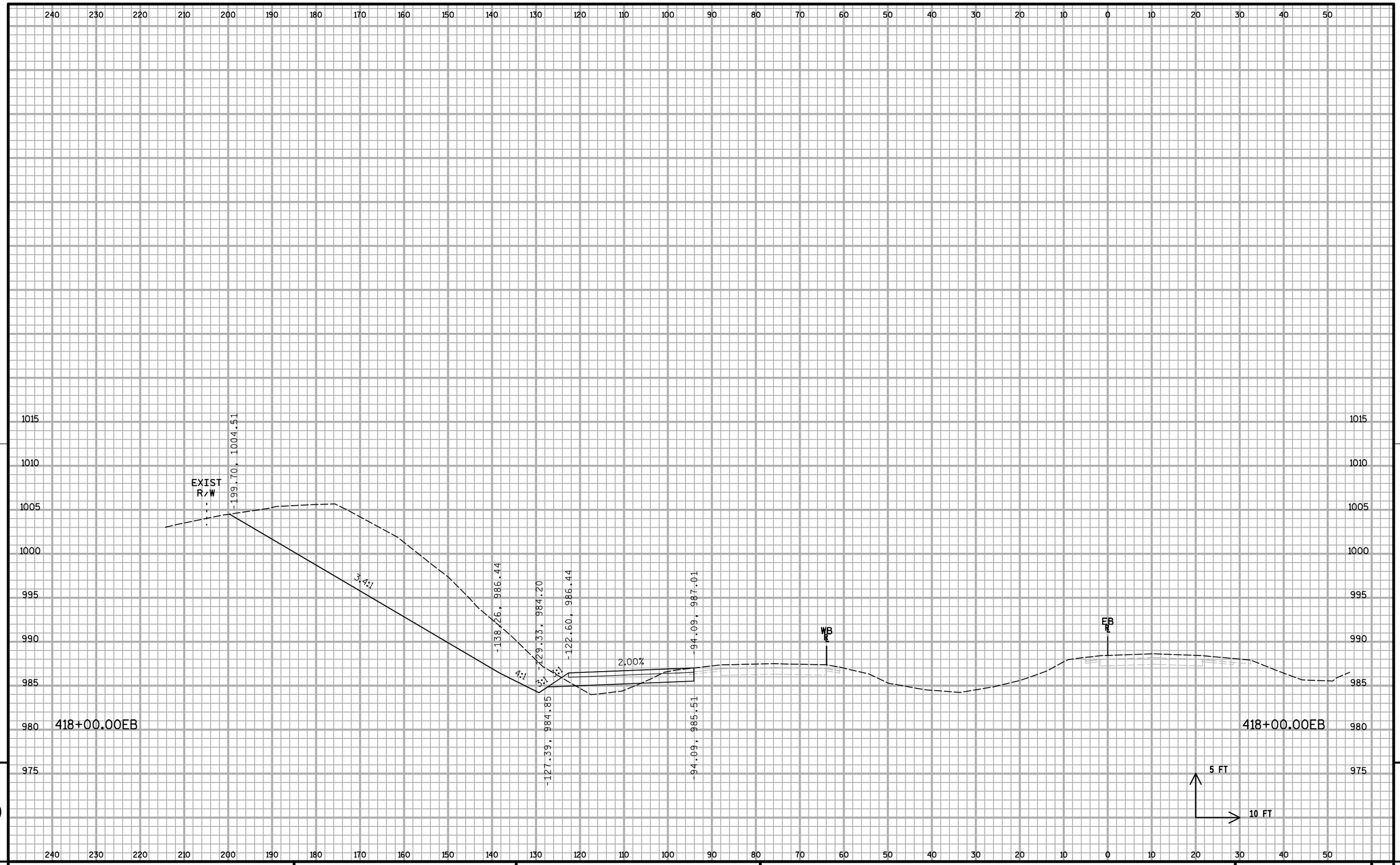
WISDOT/CADDS SHEET 21



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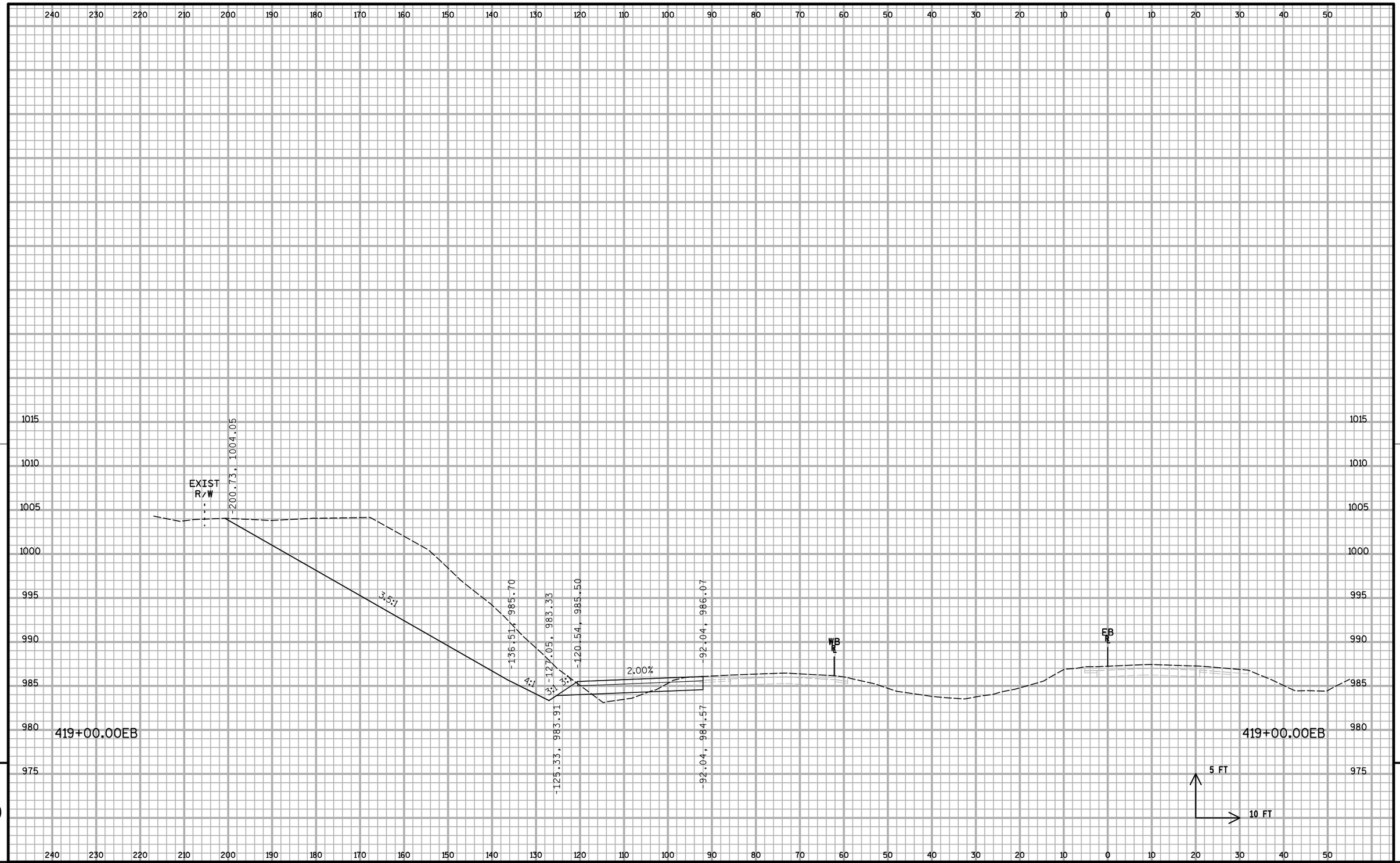
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

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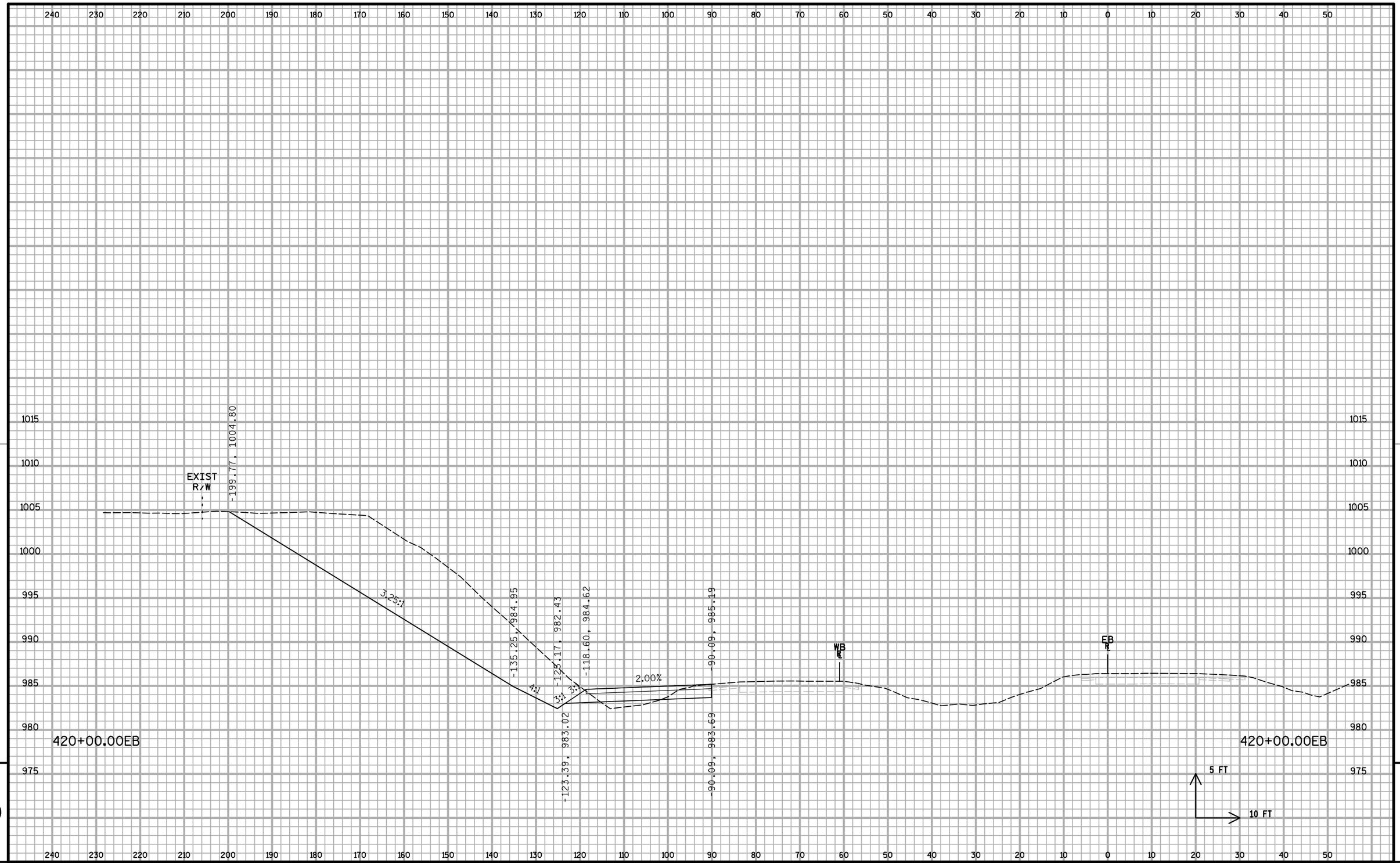


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

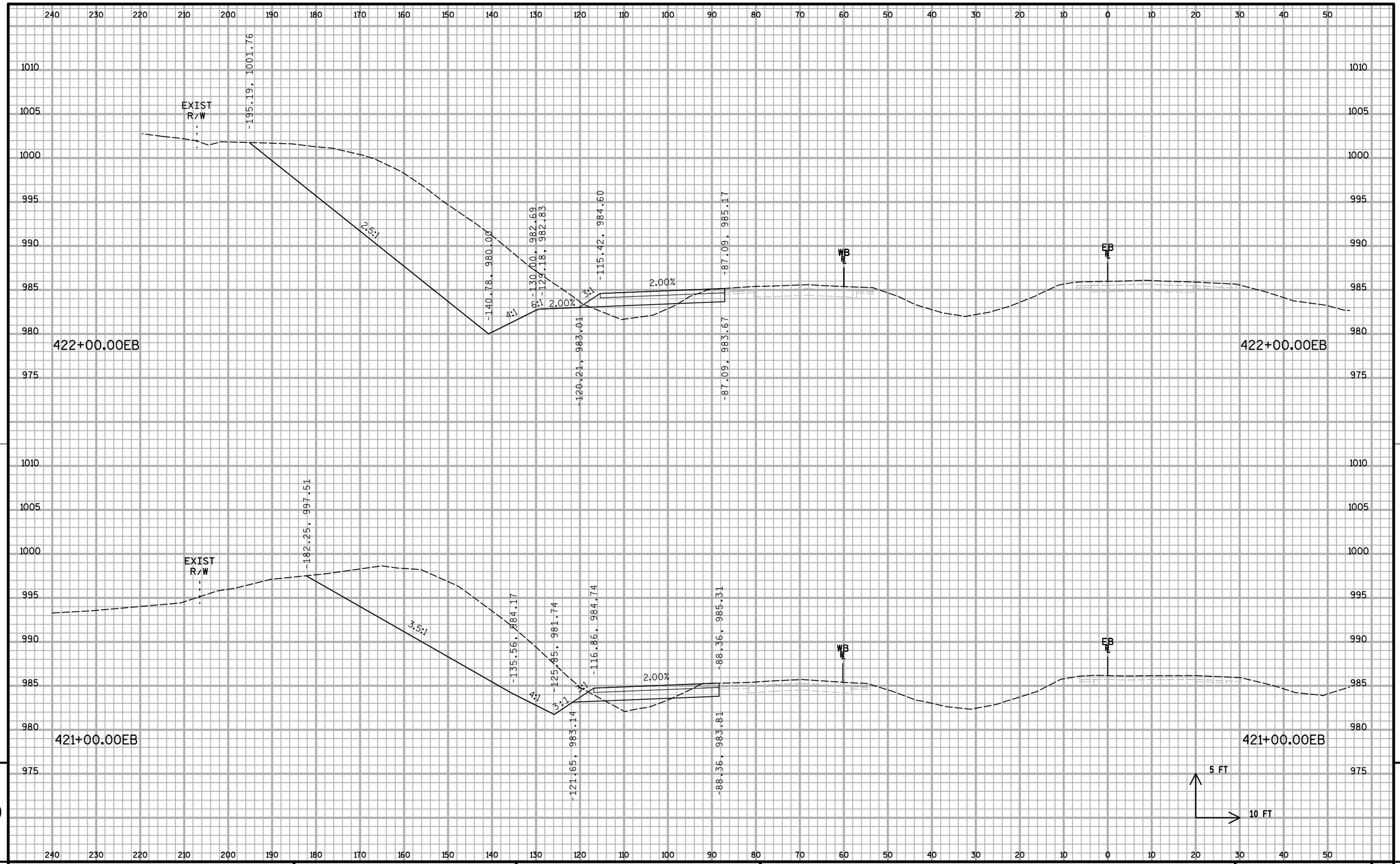


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

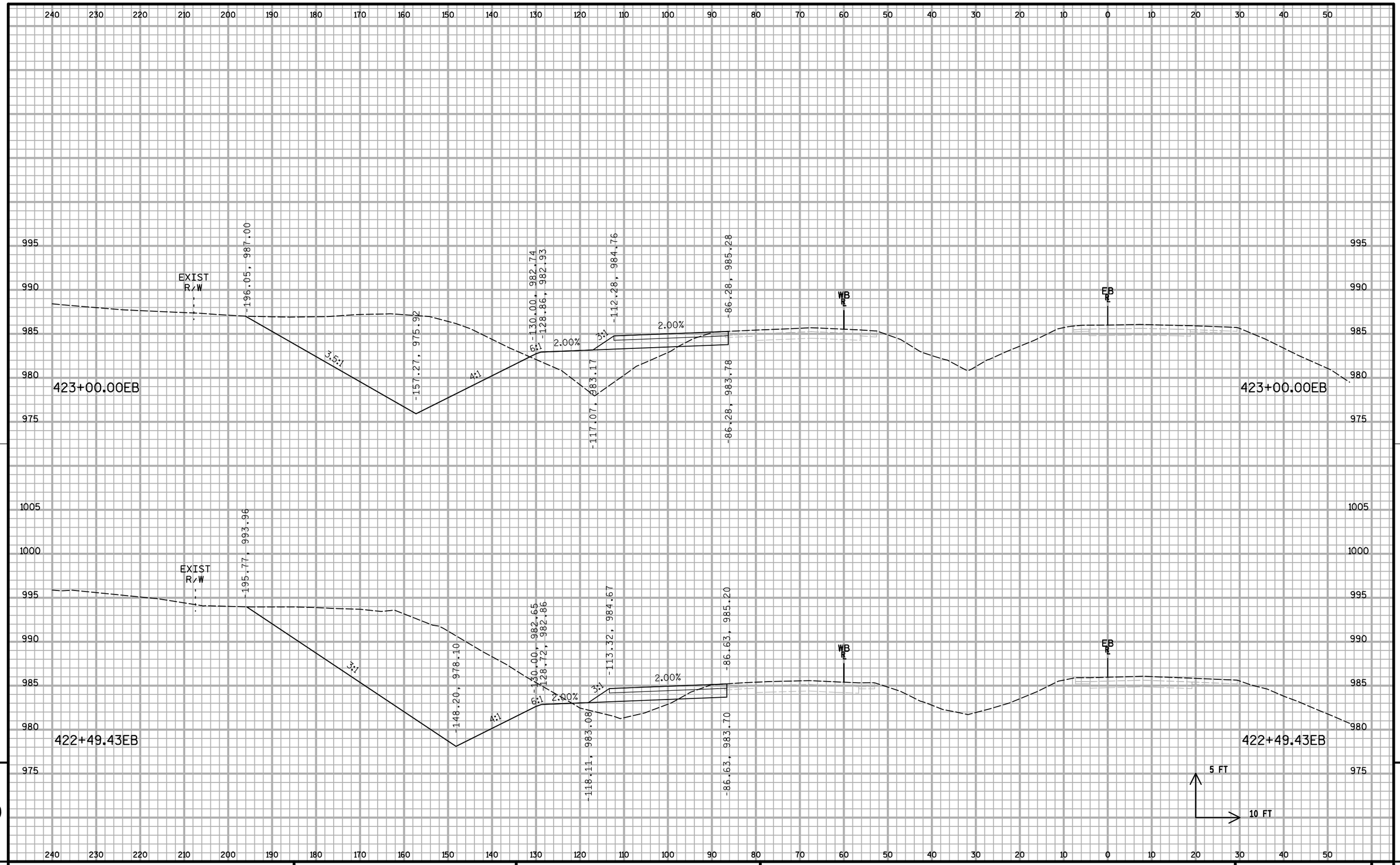


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

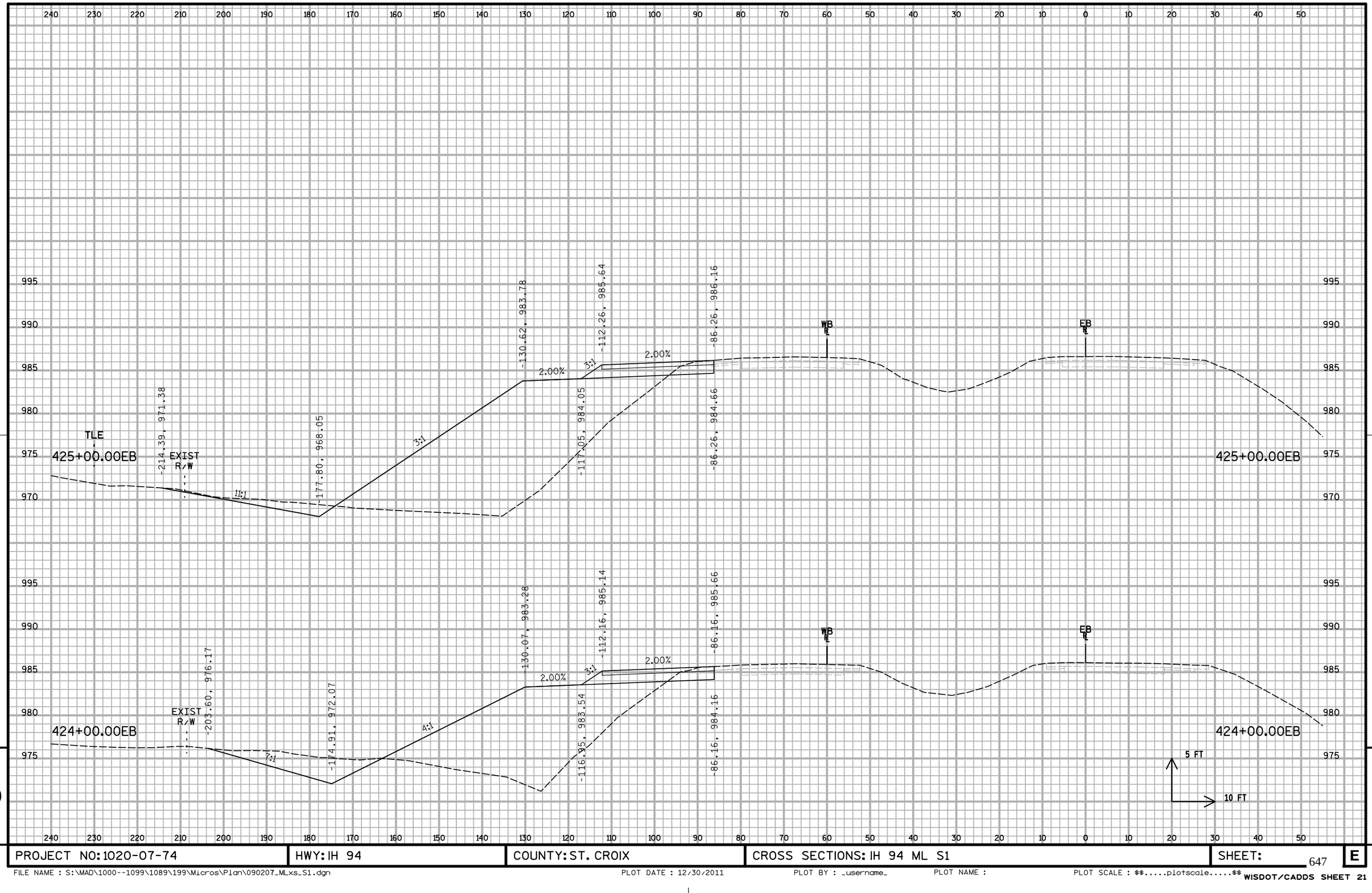


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

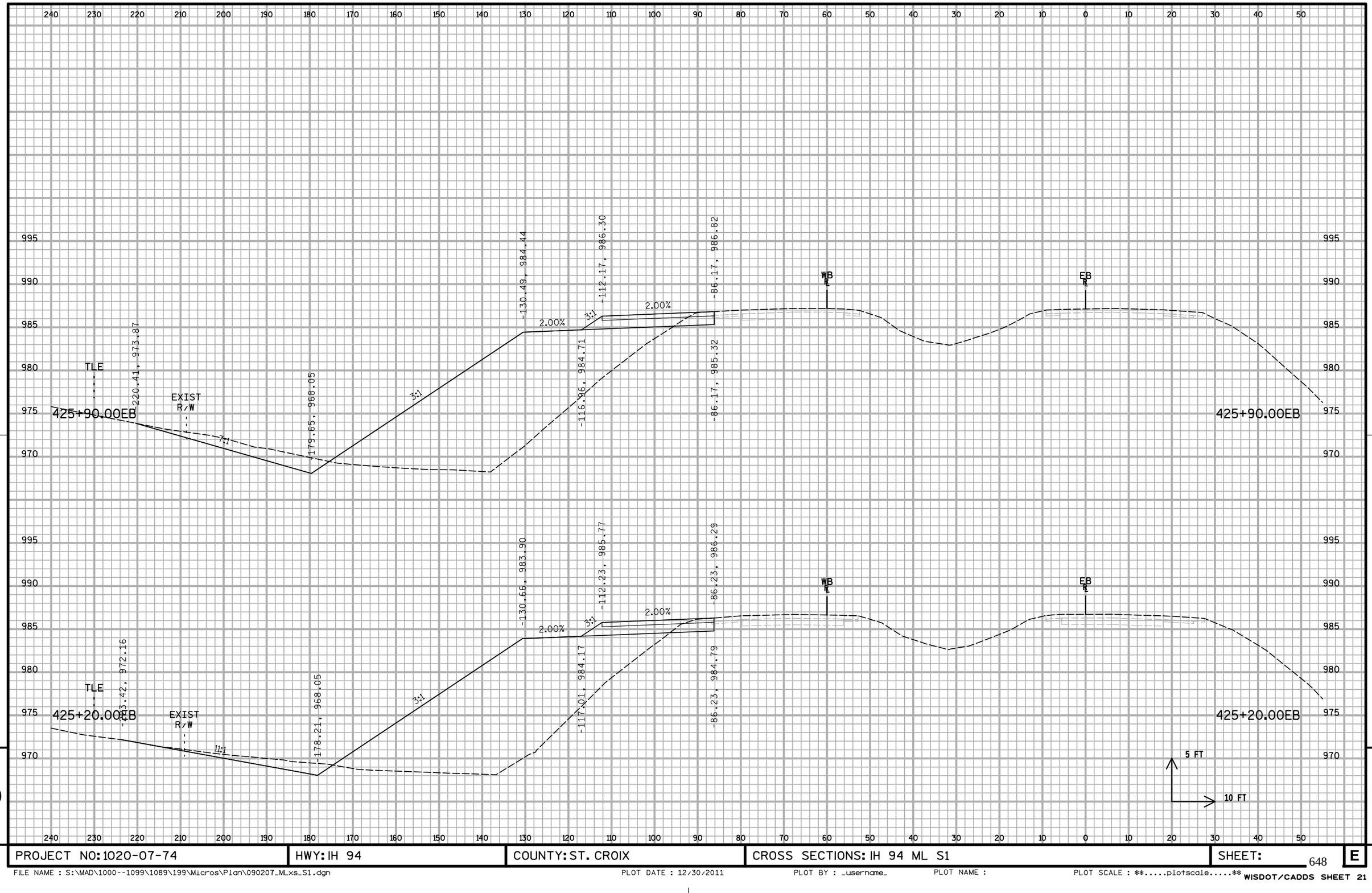


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

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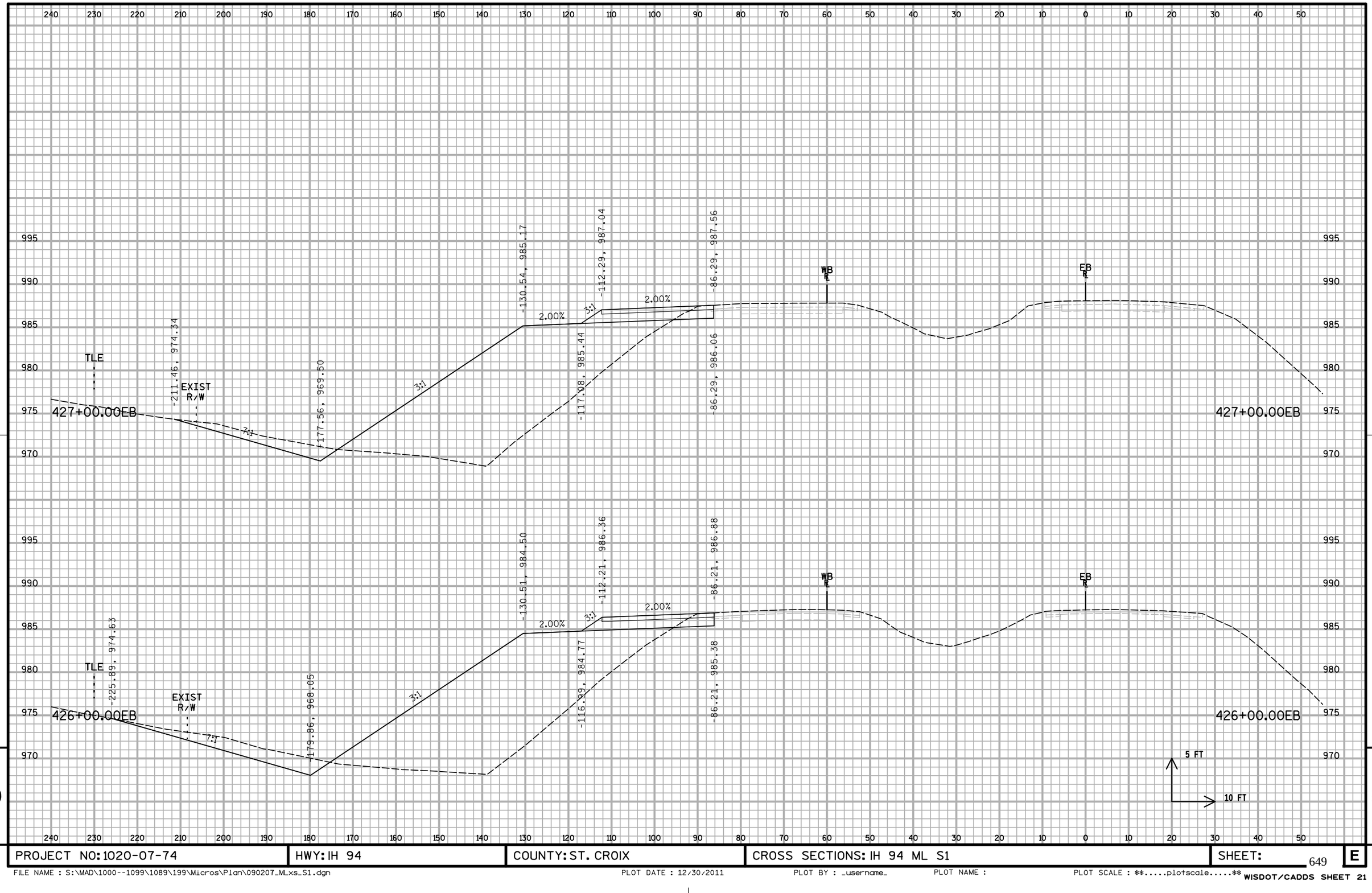
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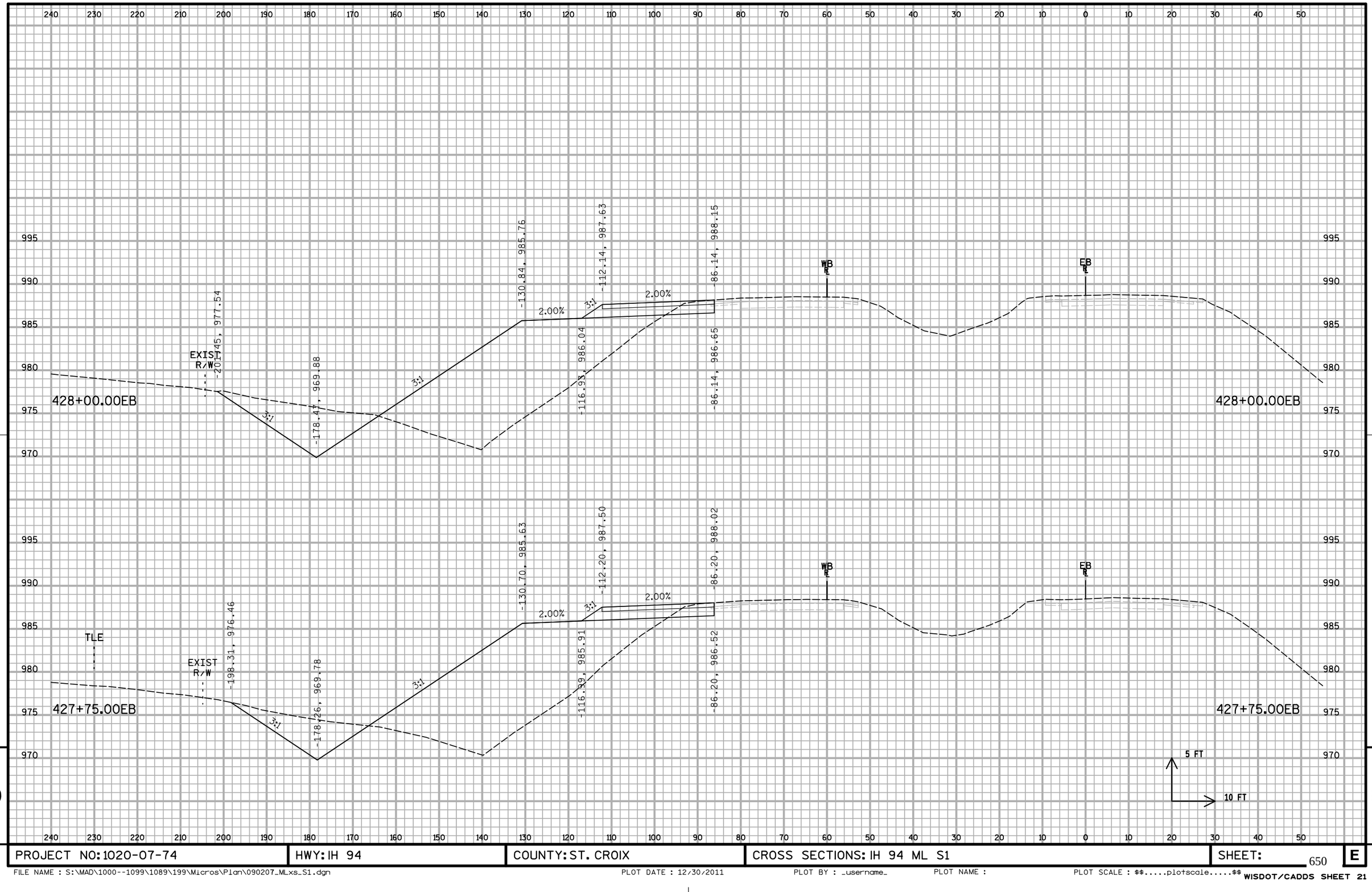
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WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

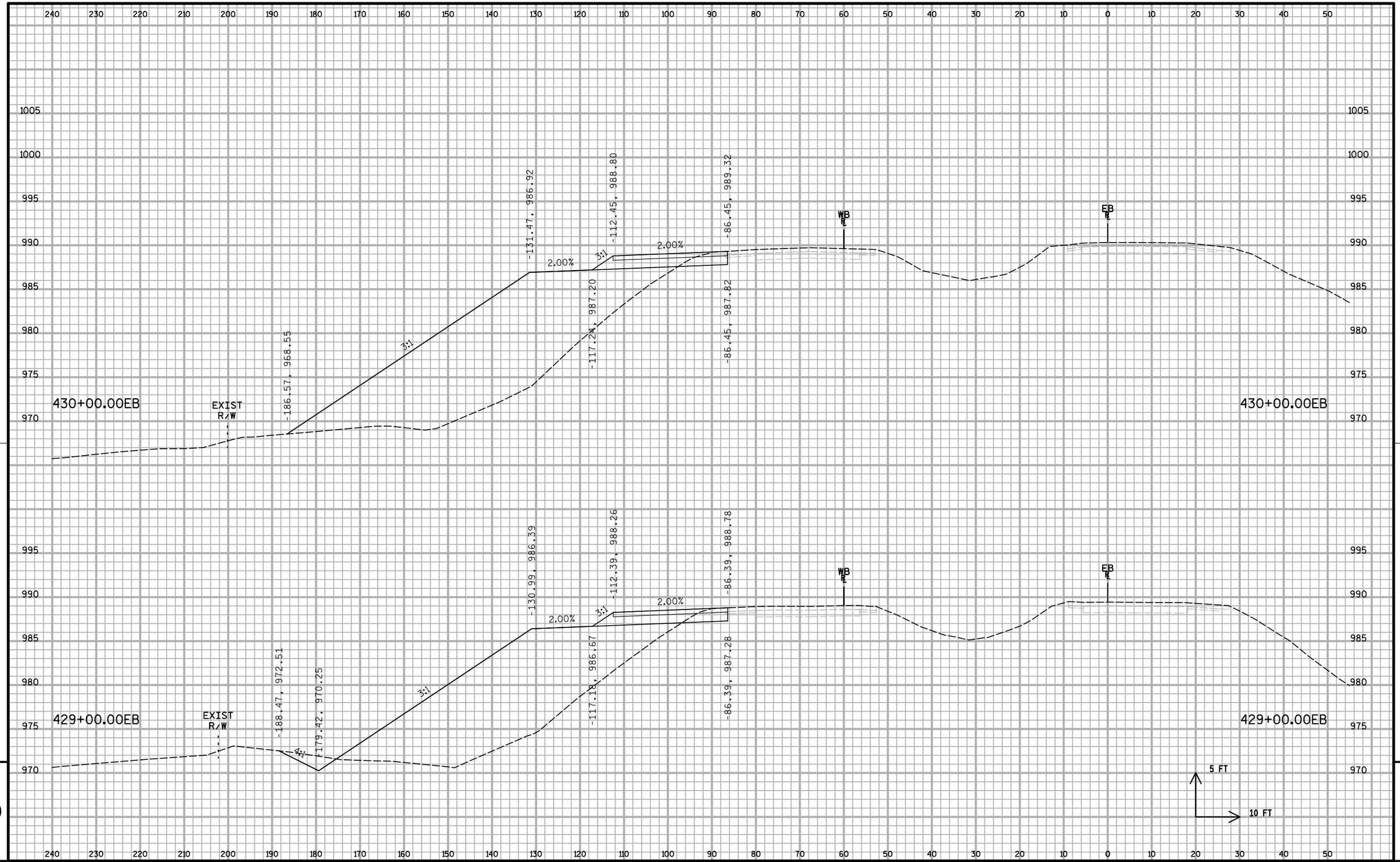
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

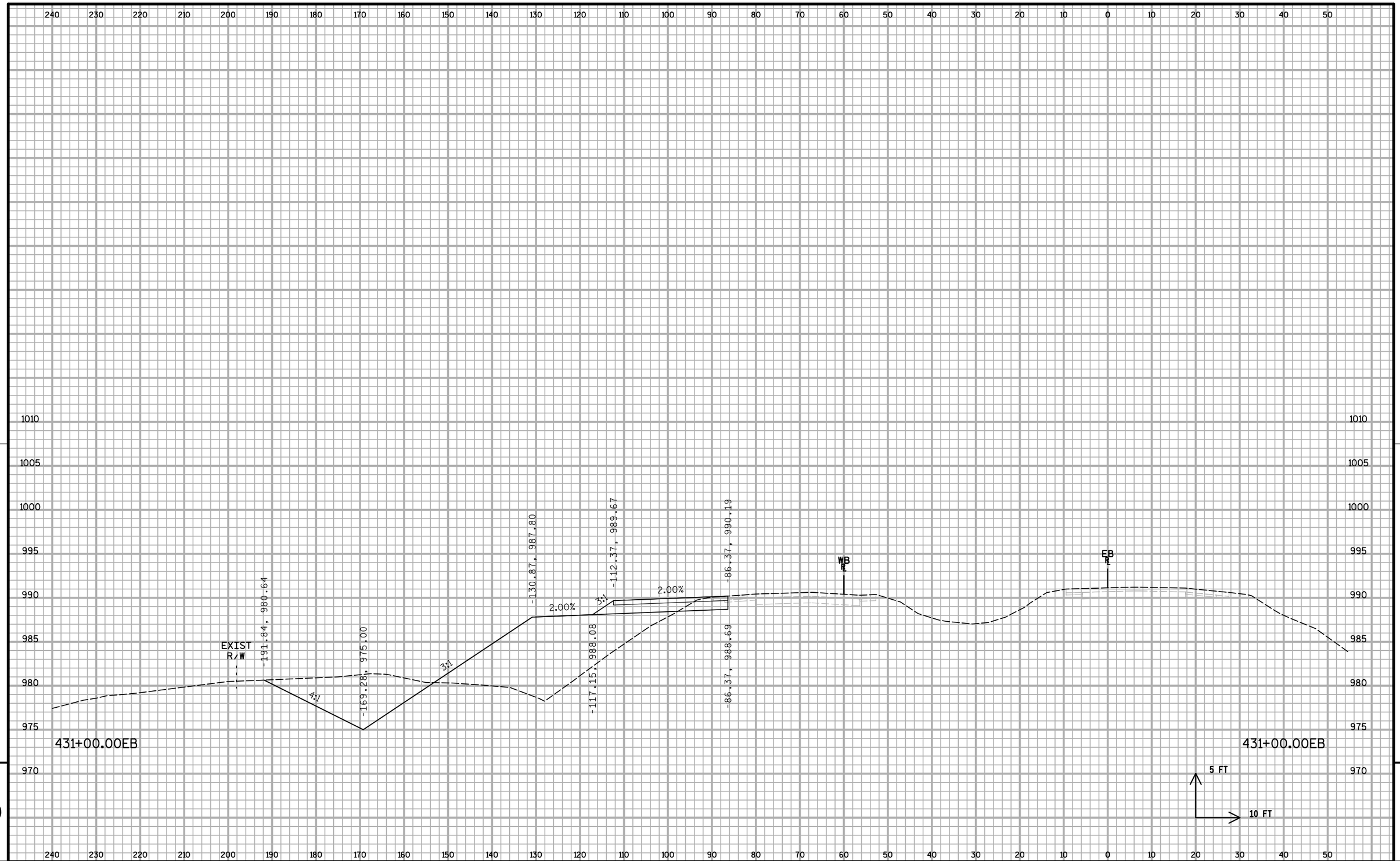


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

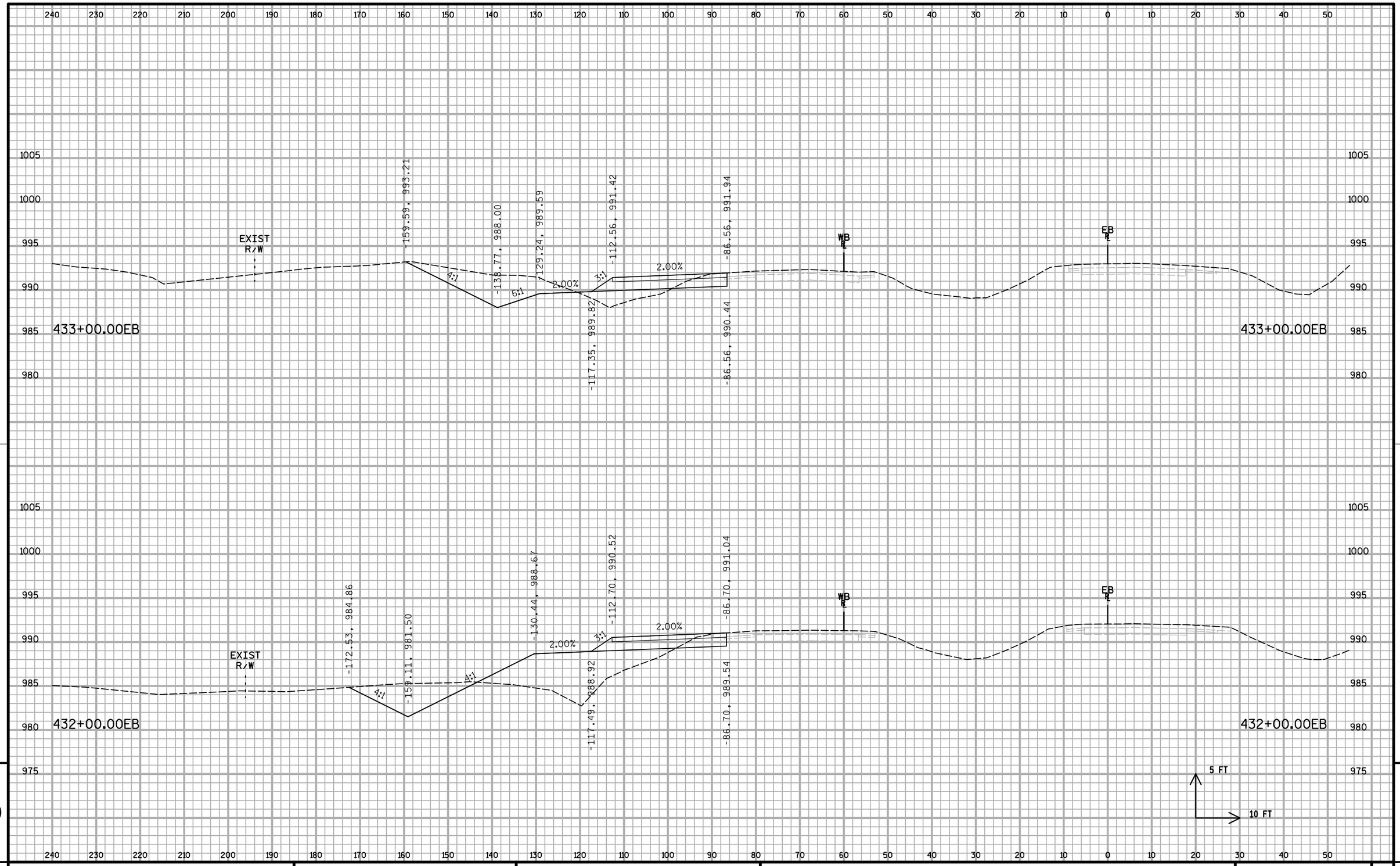


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

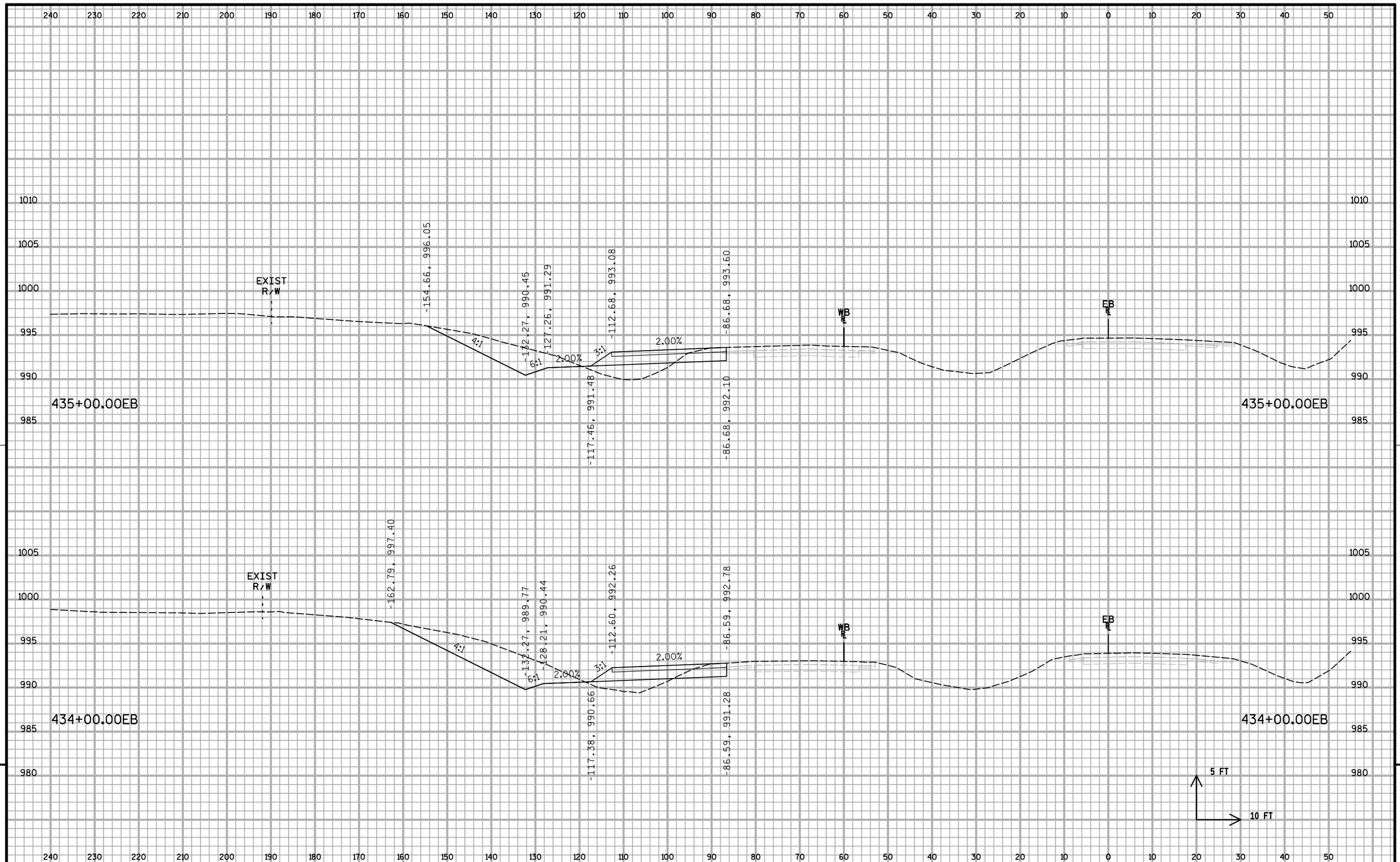
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

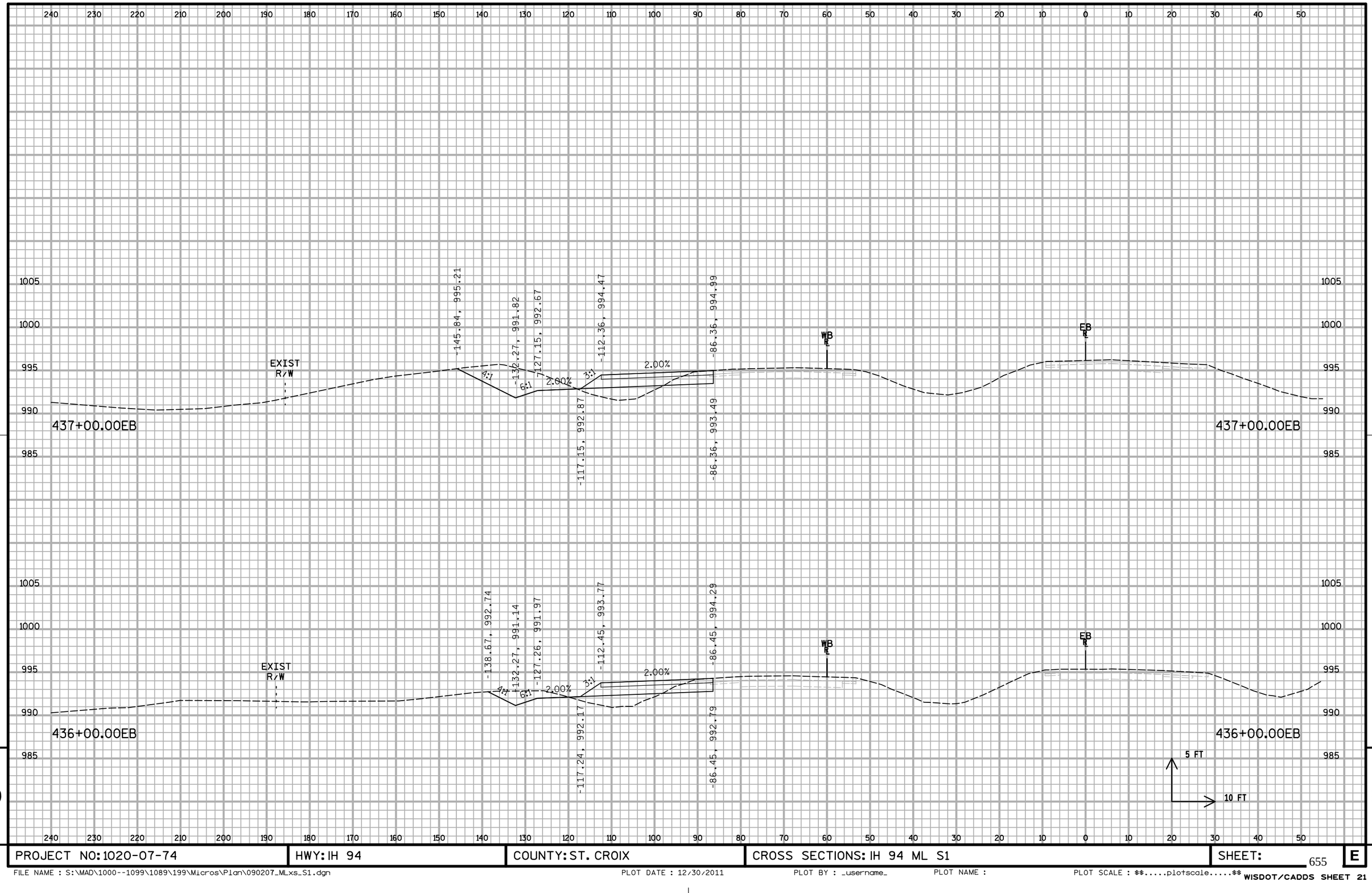


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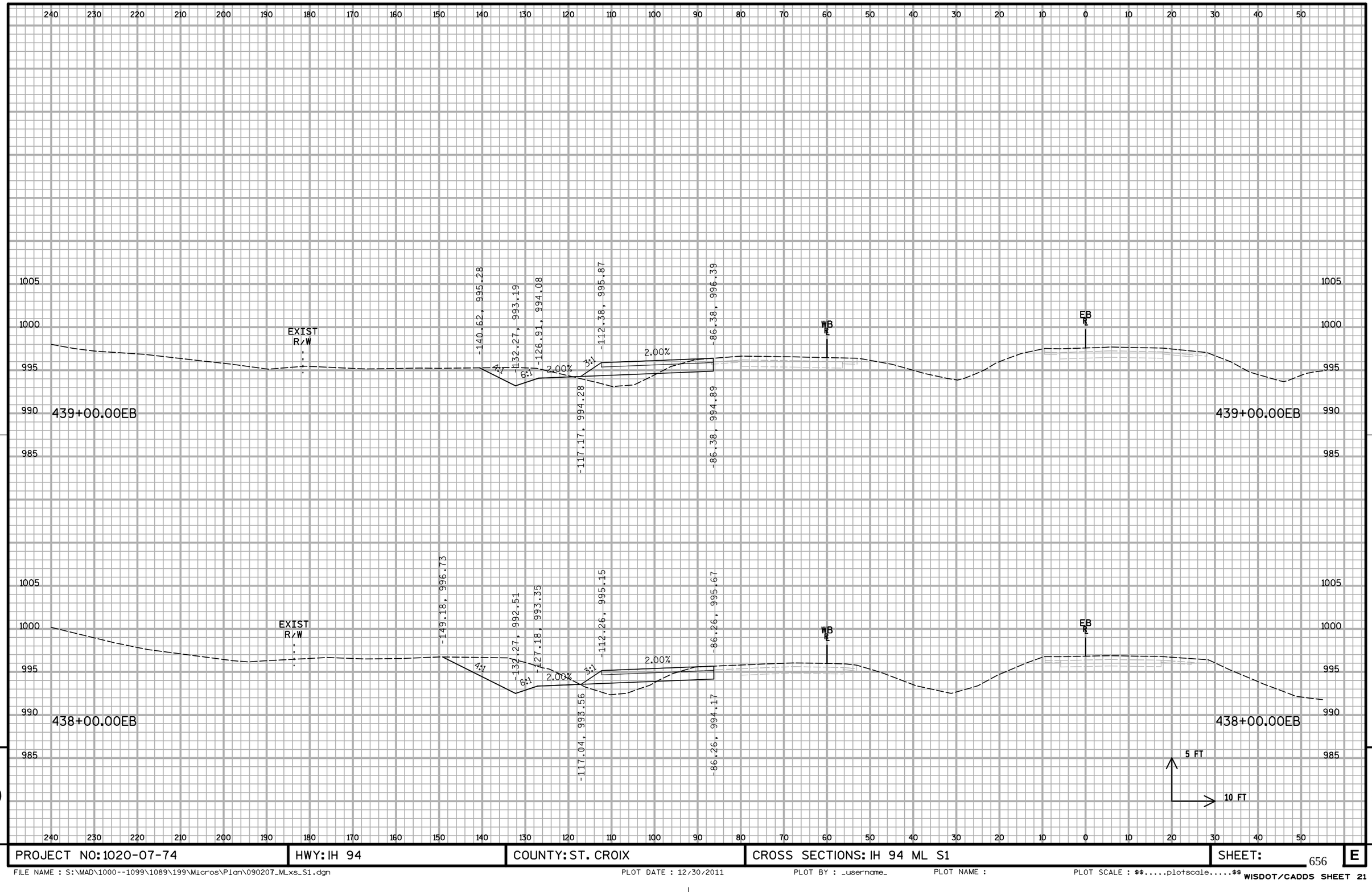
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

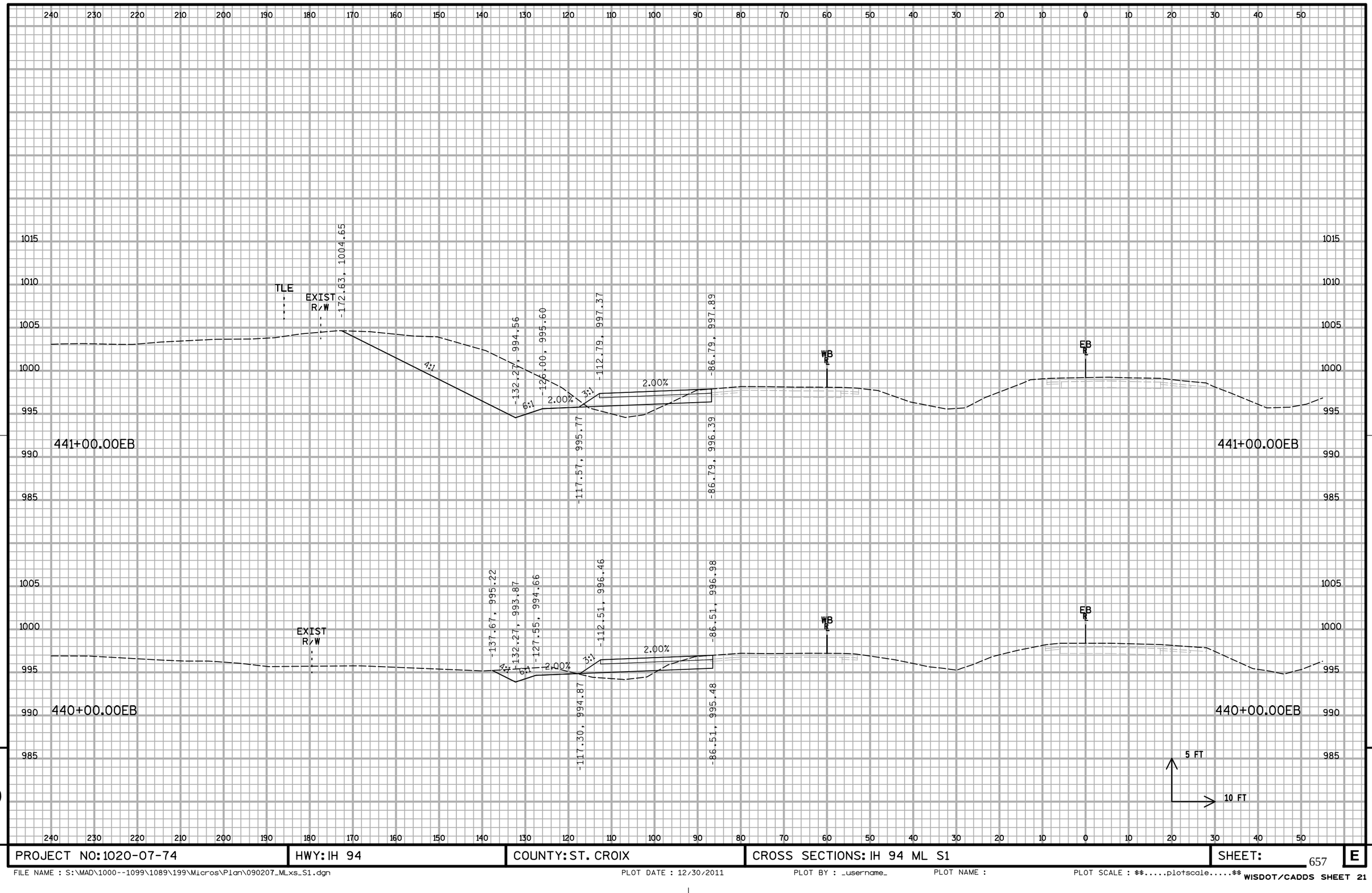


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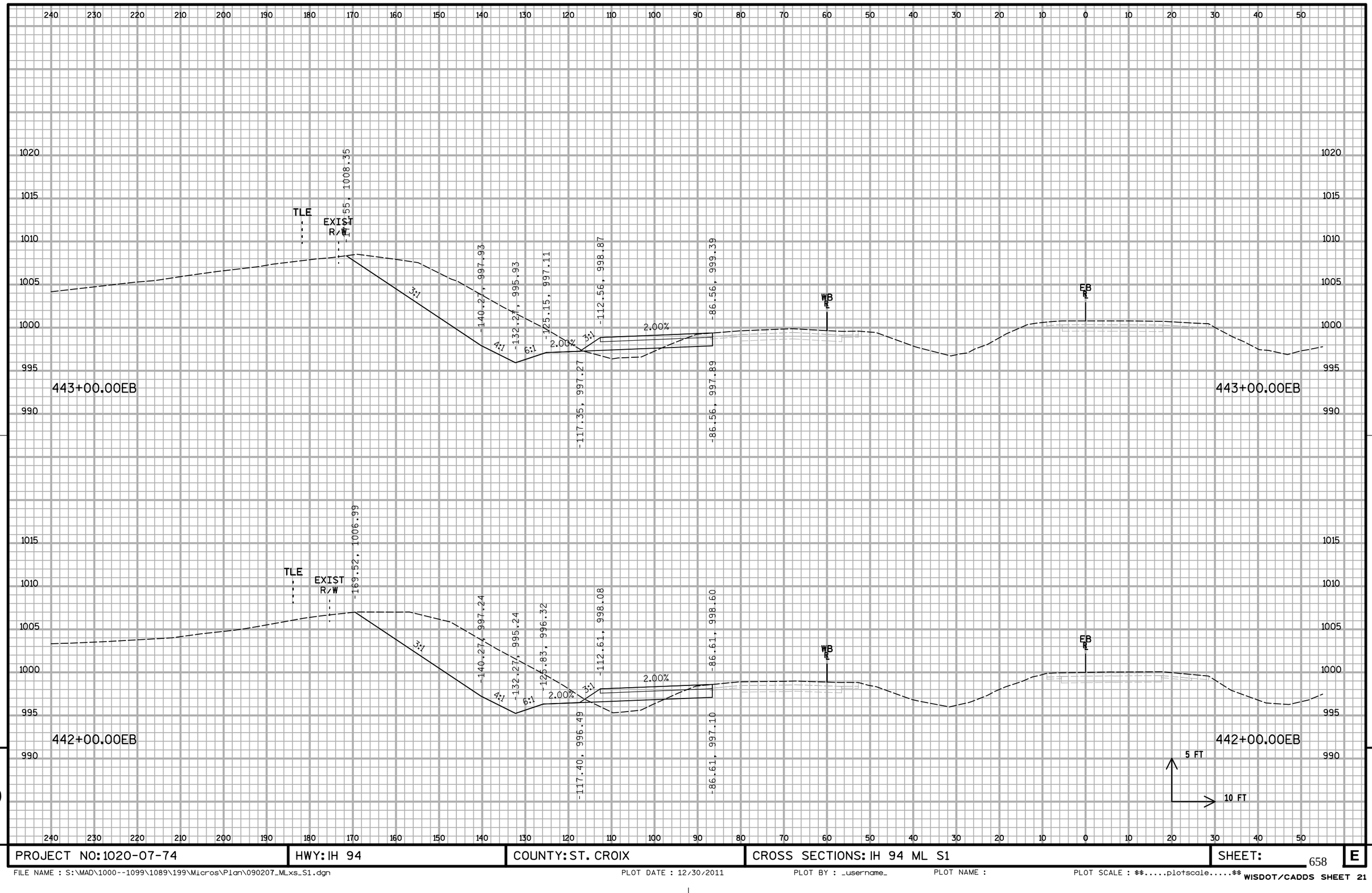
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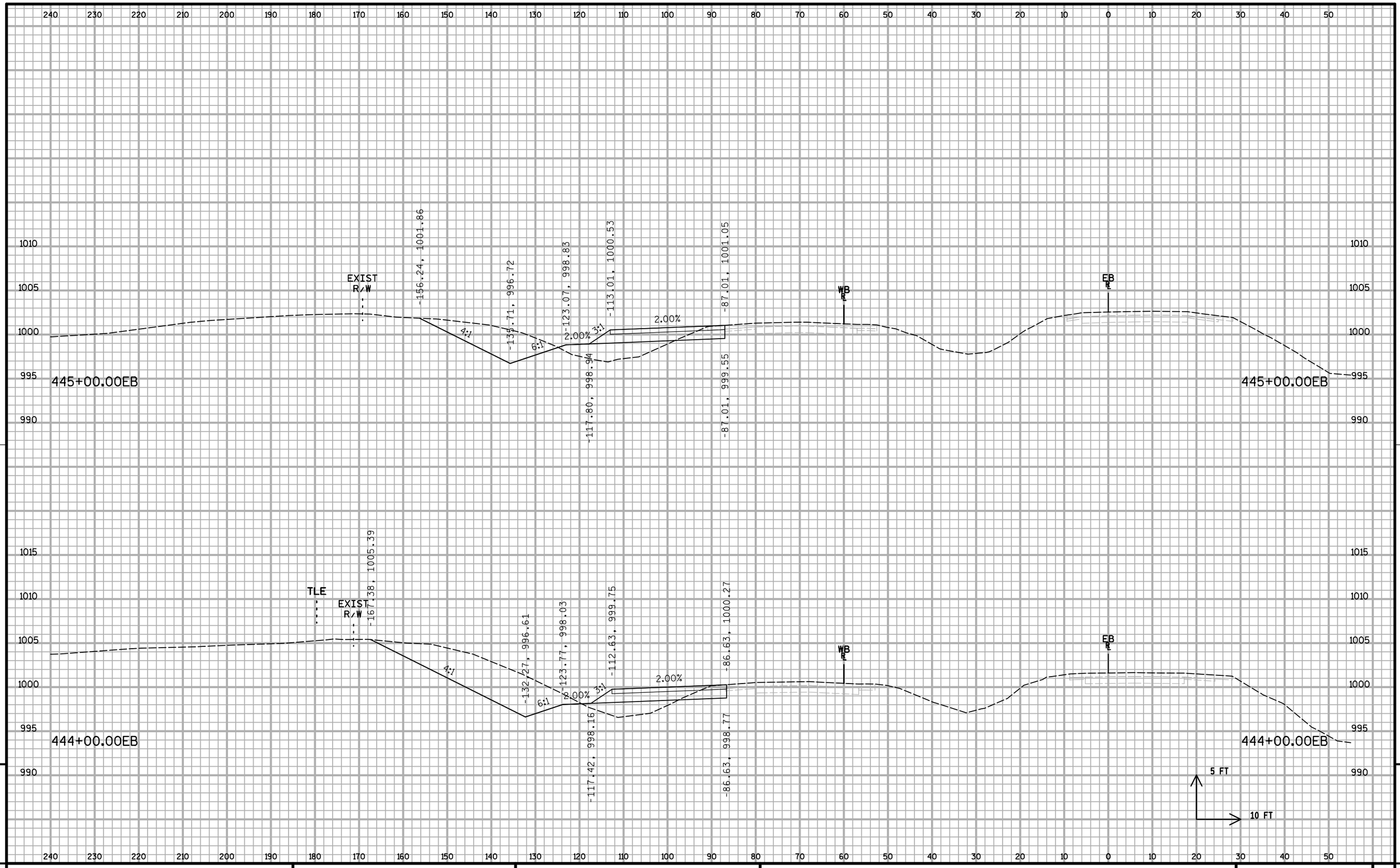
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

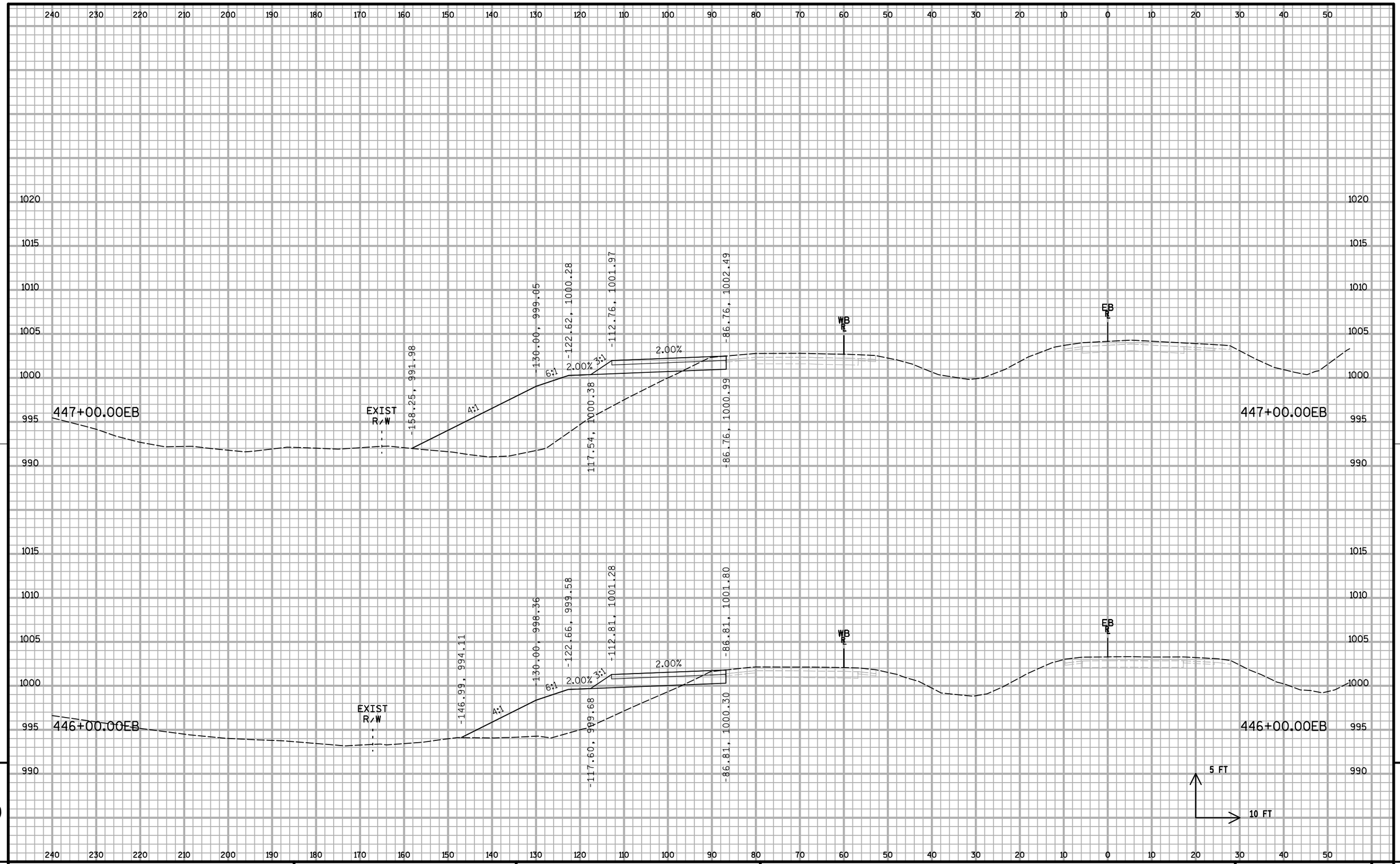


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

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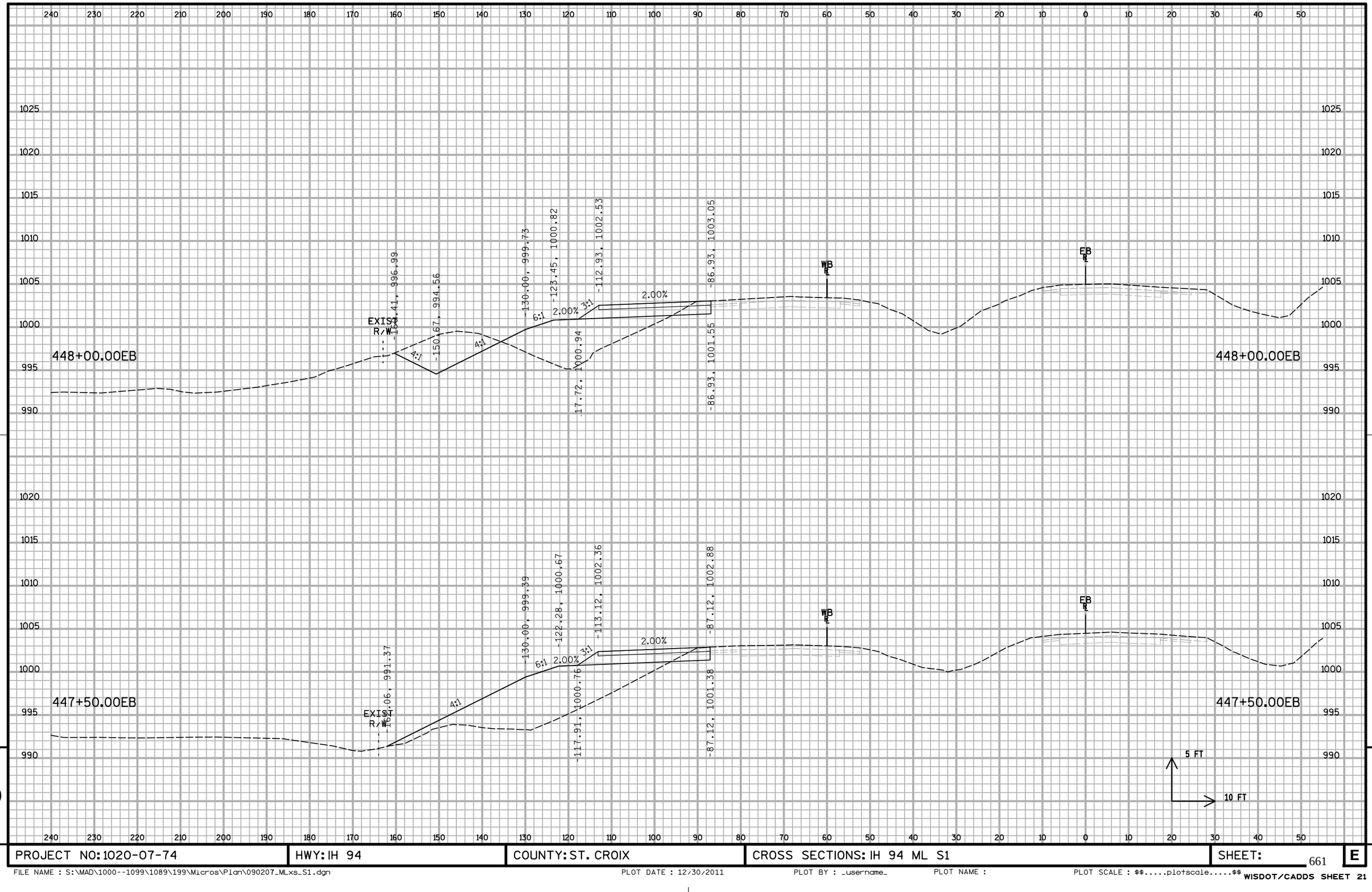


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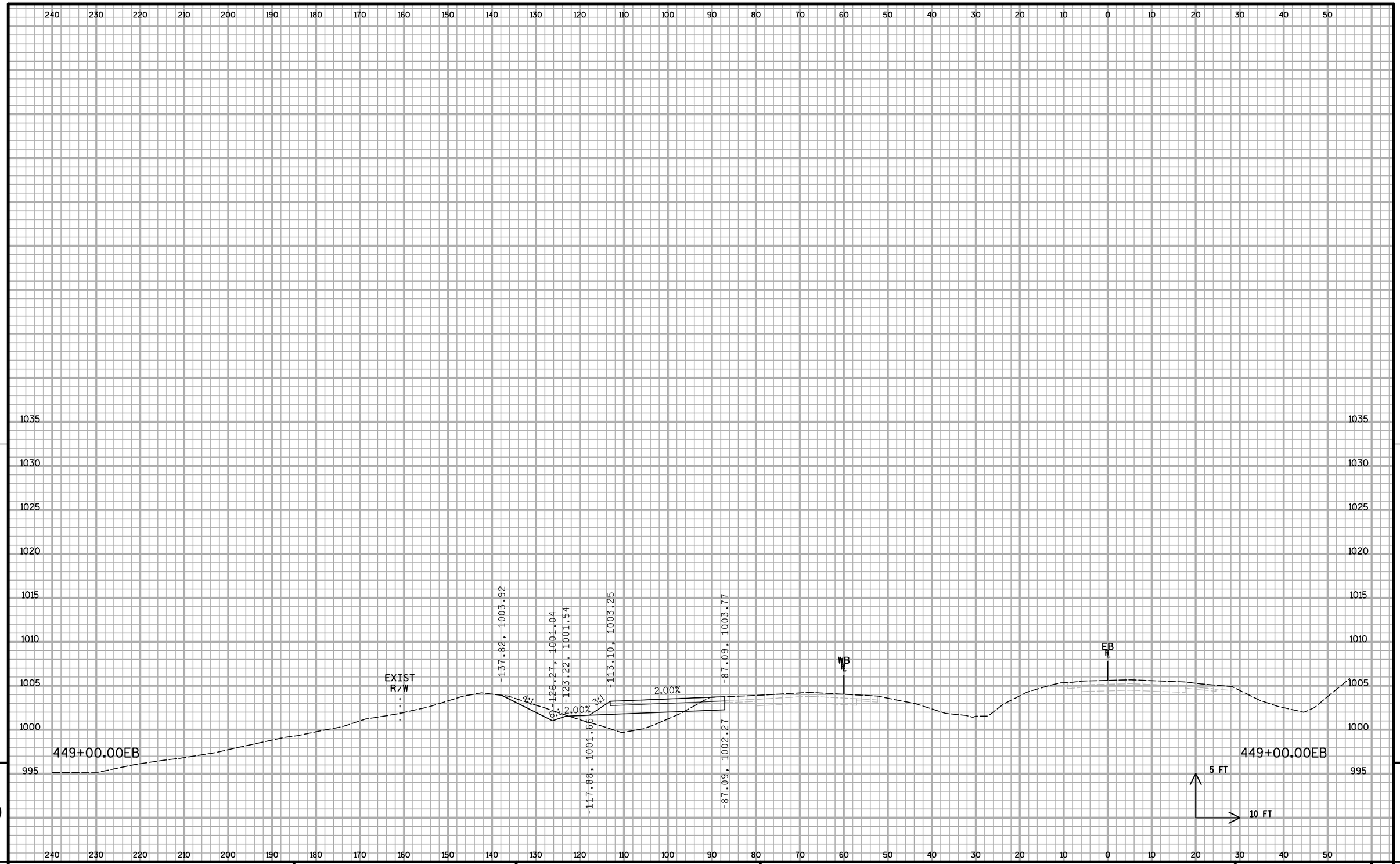
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

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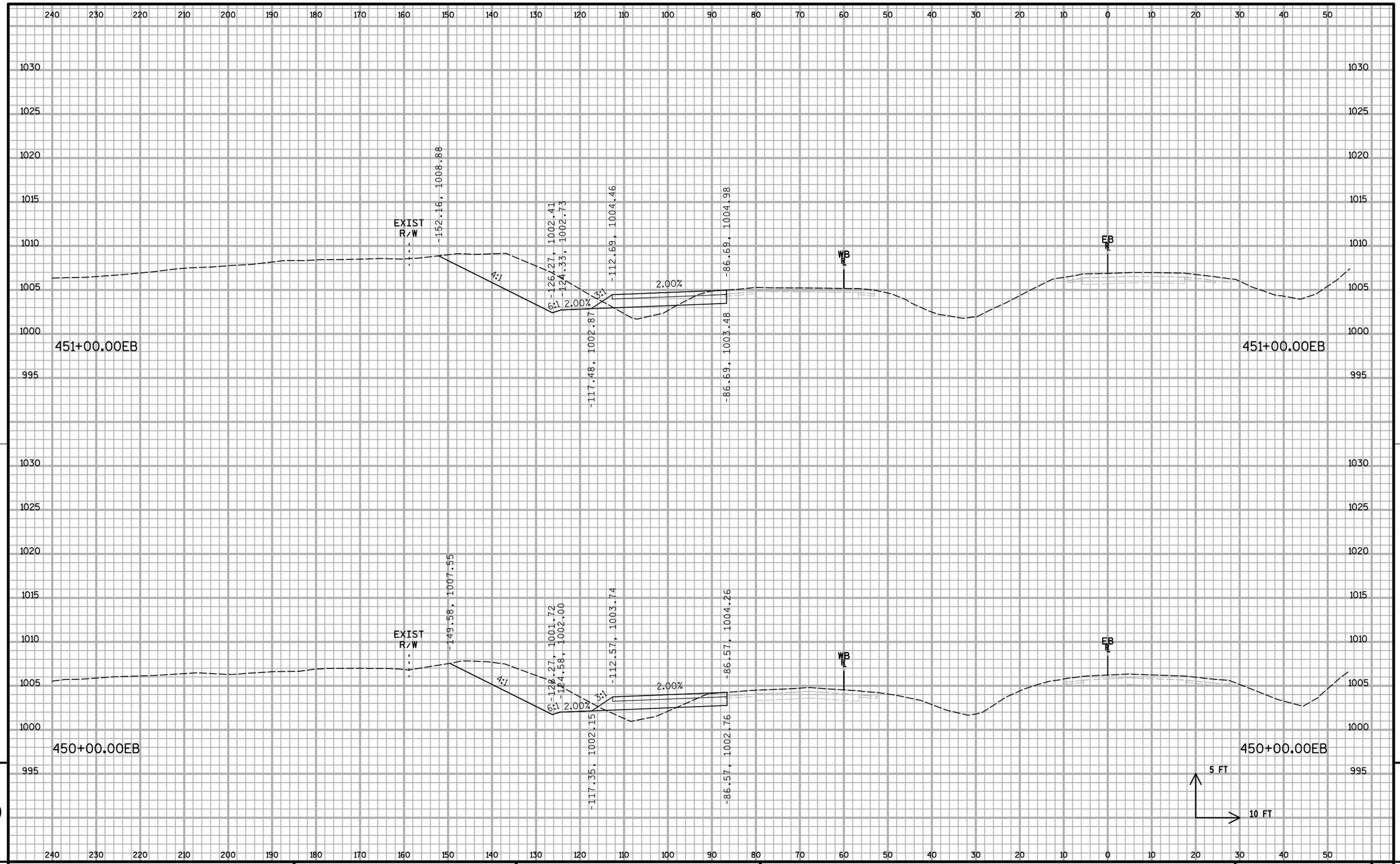


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

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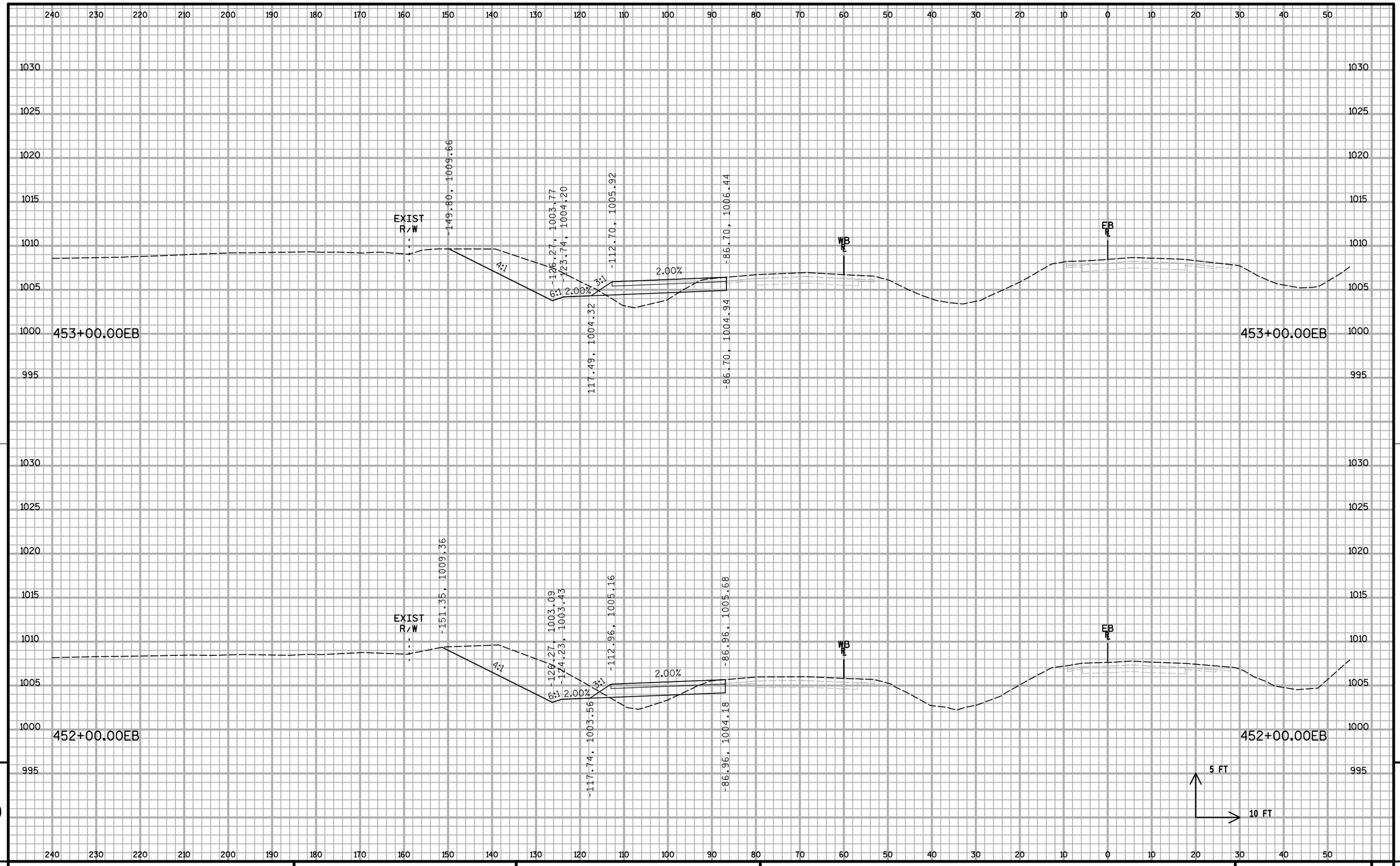


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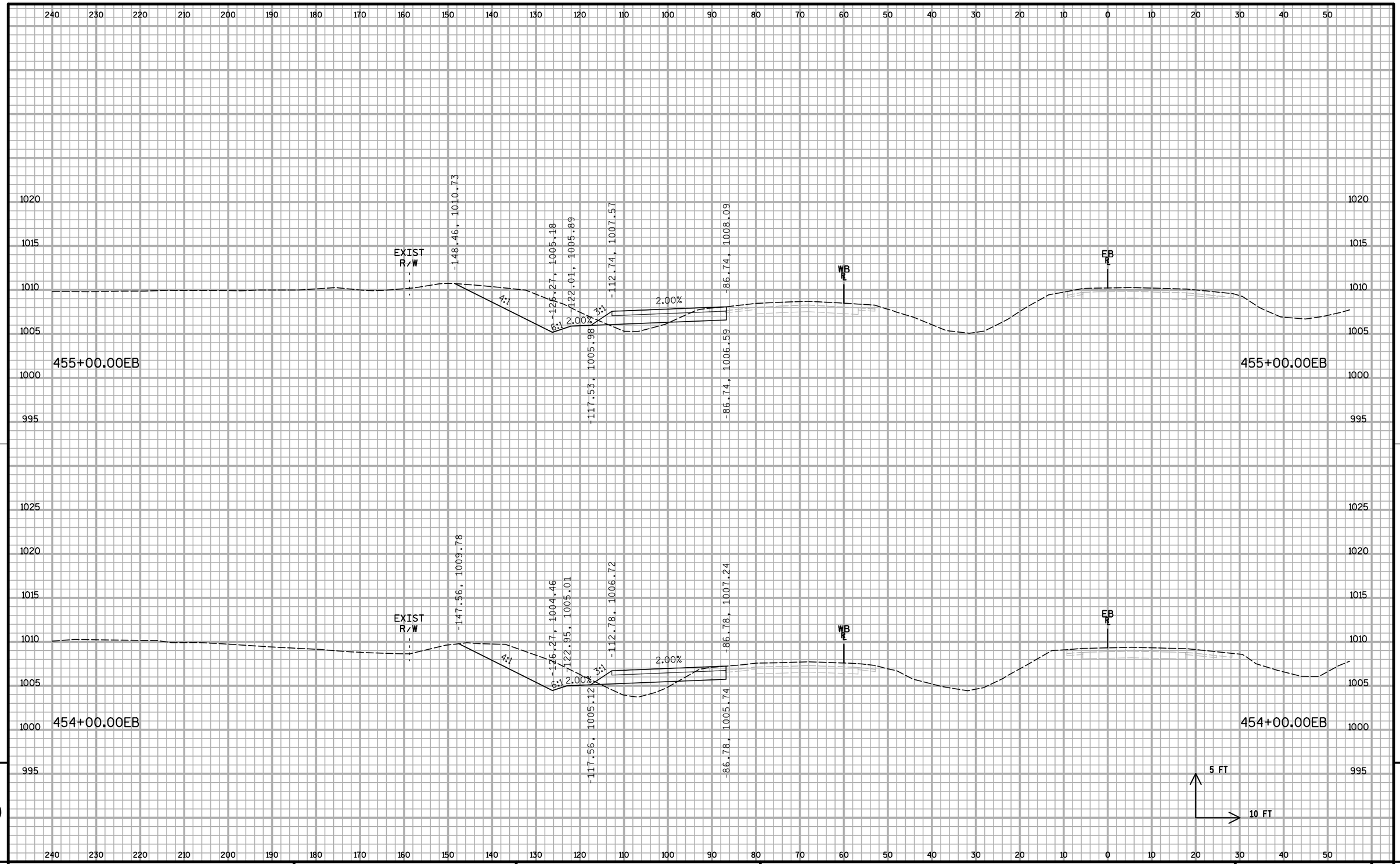
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

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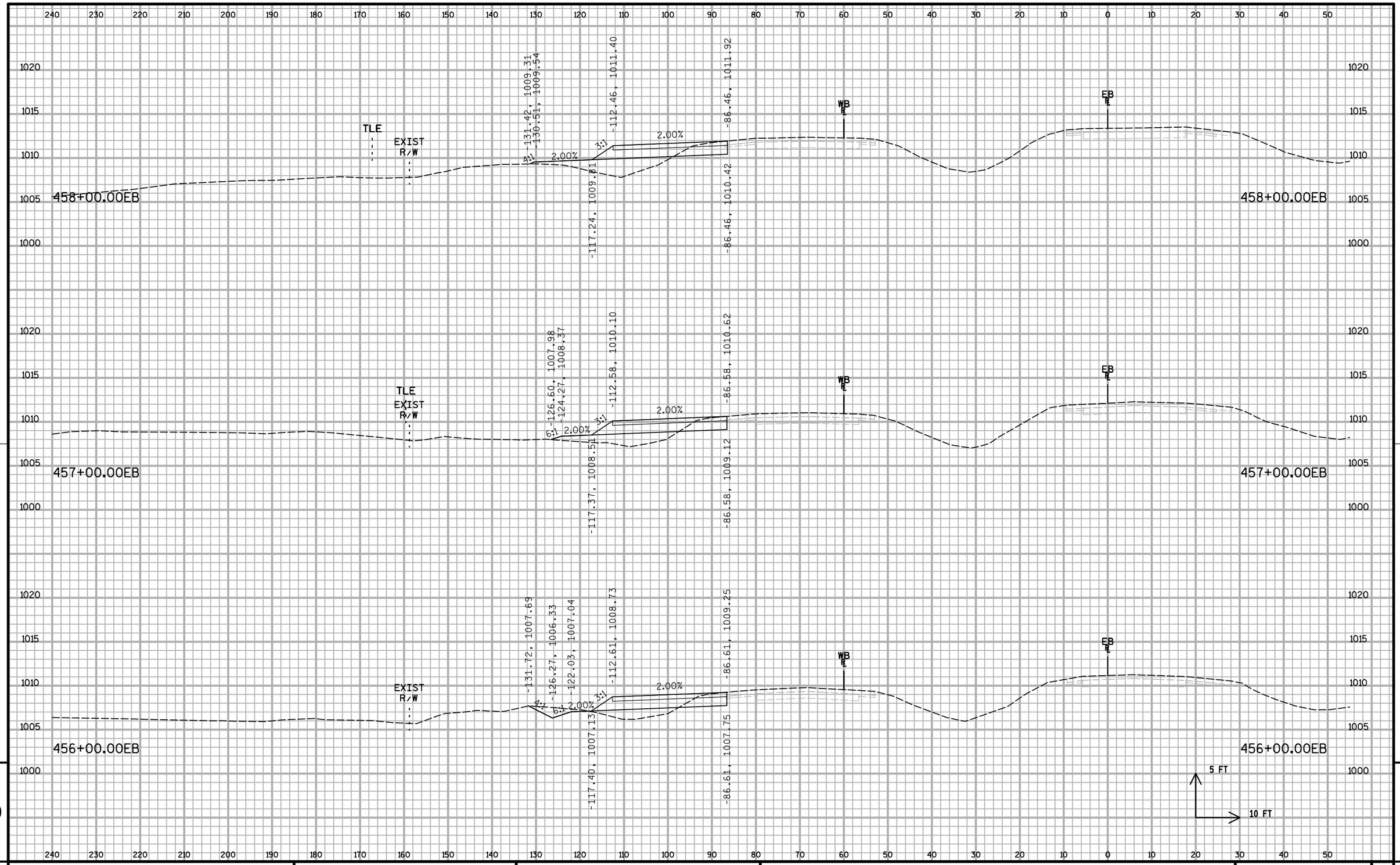


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

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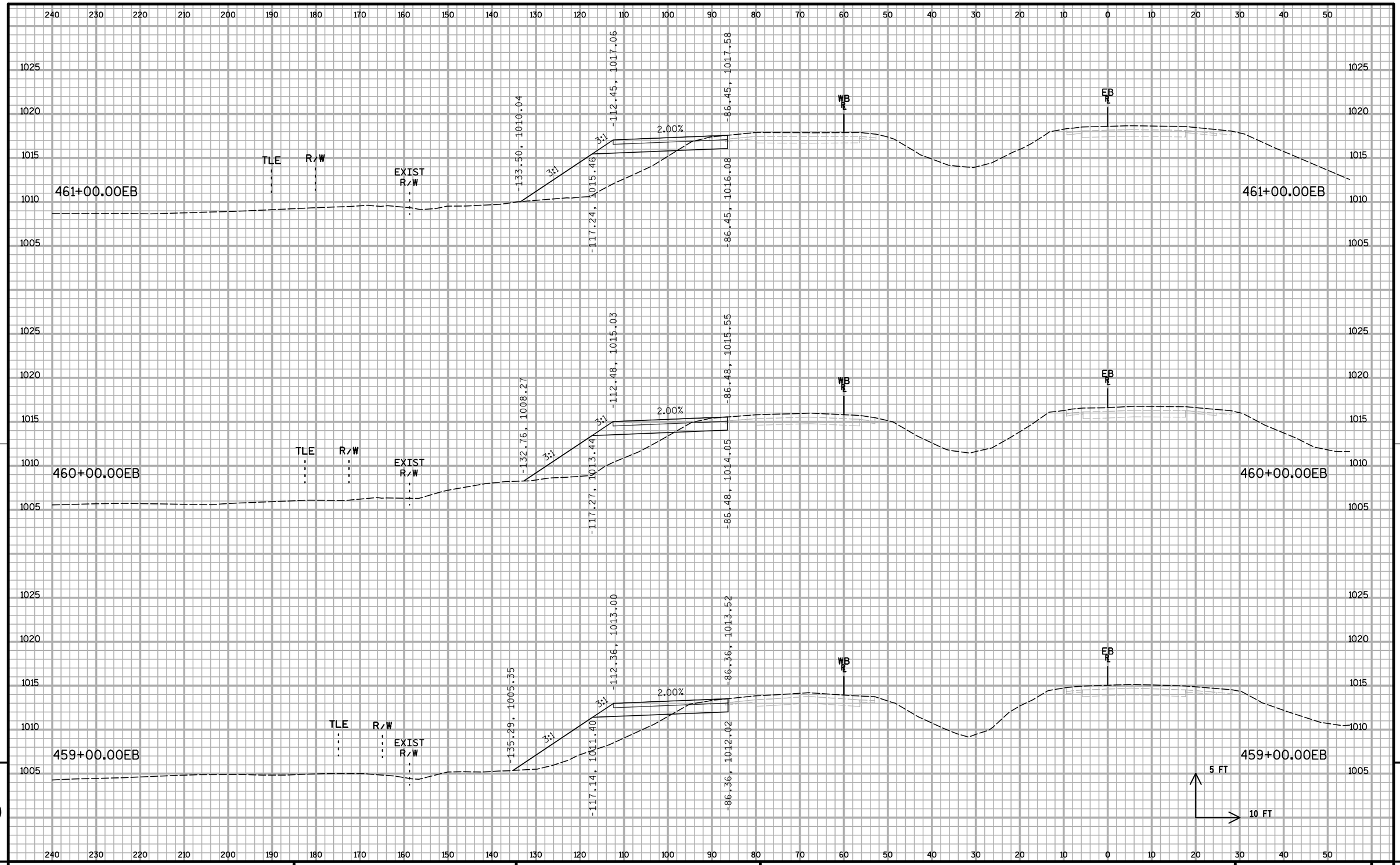


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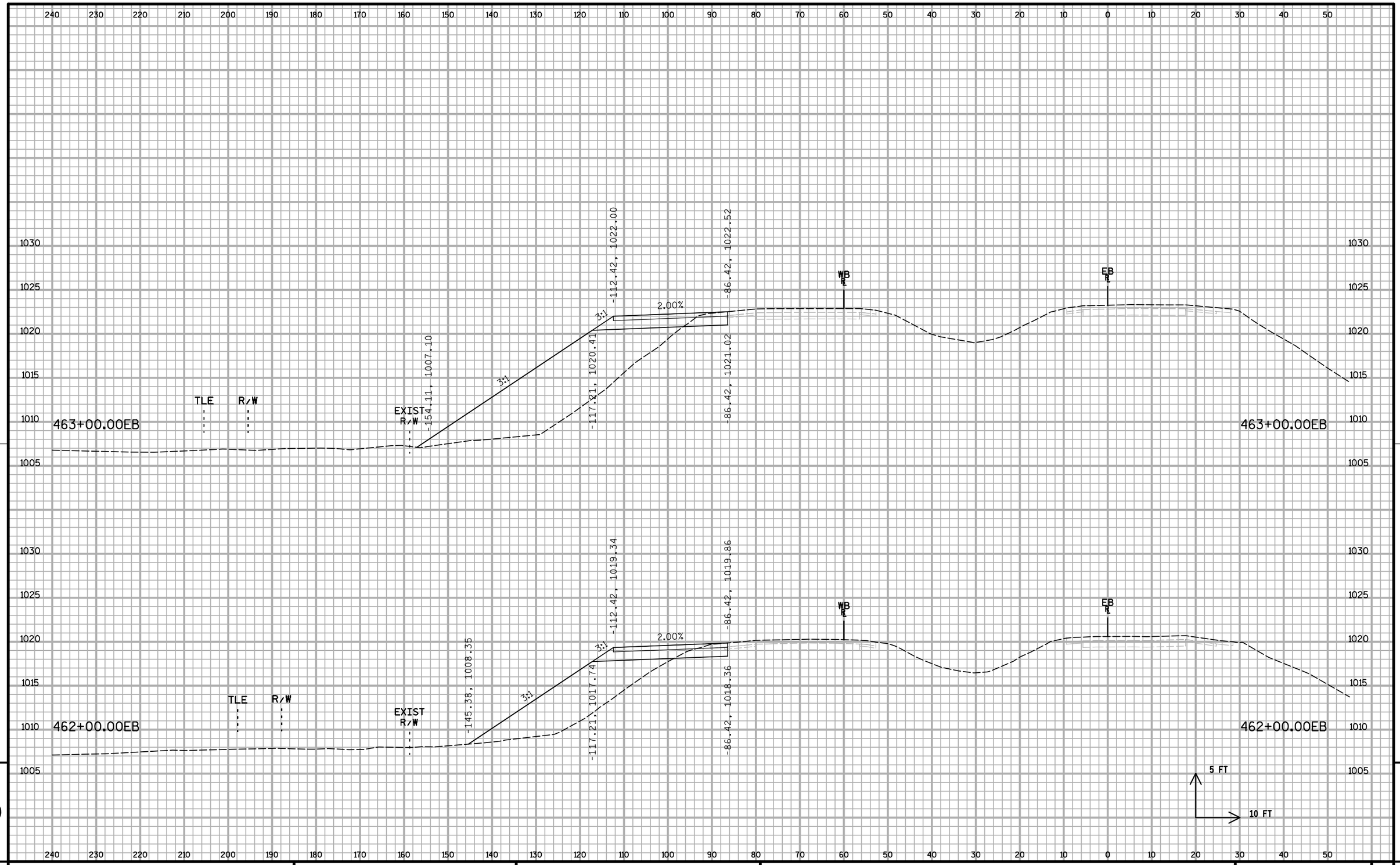
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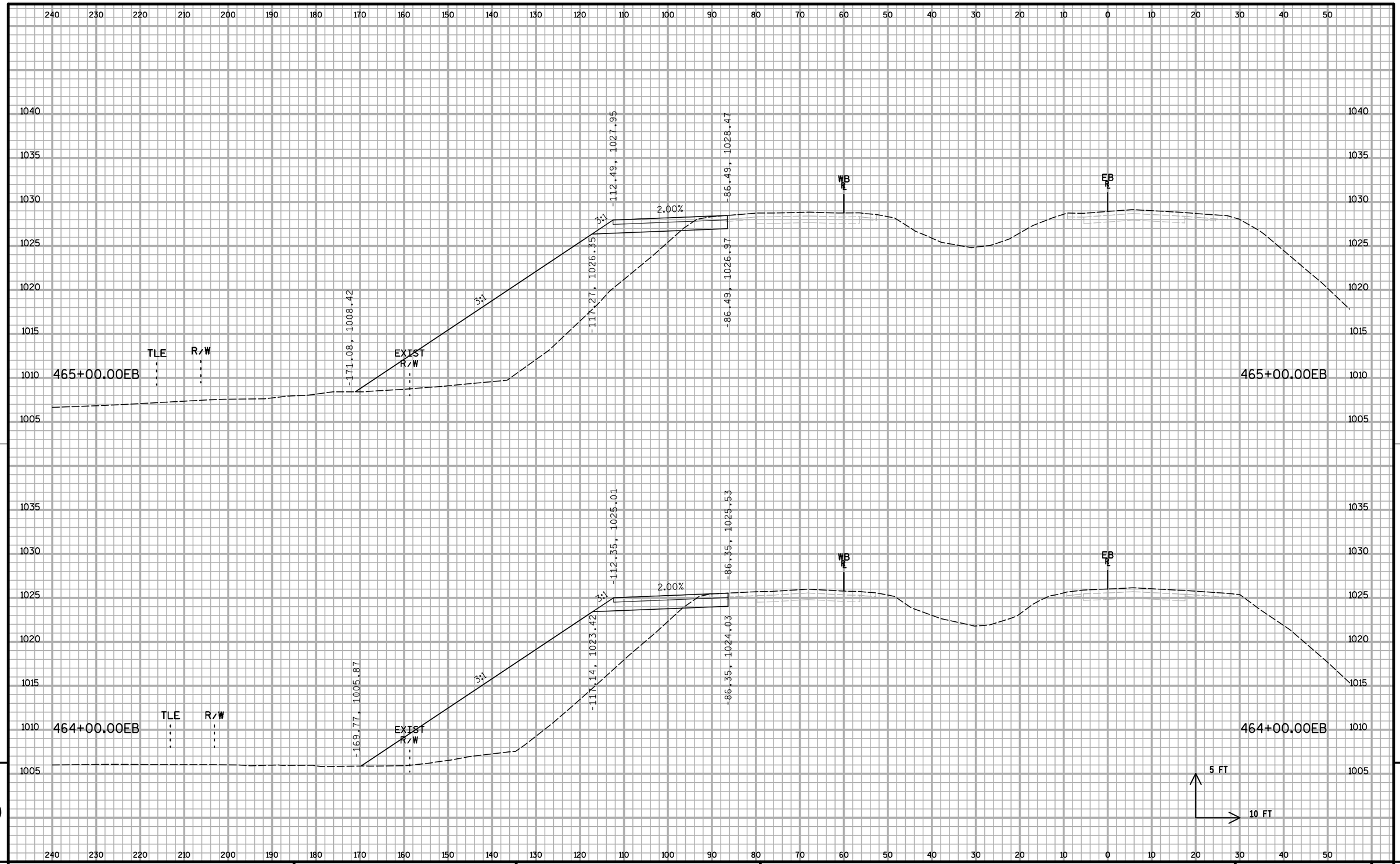
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

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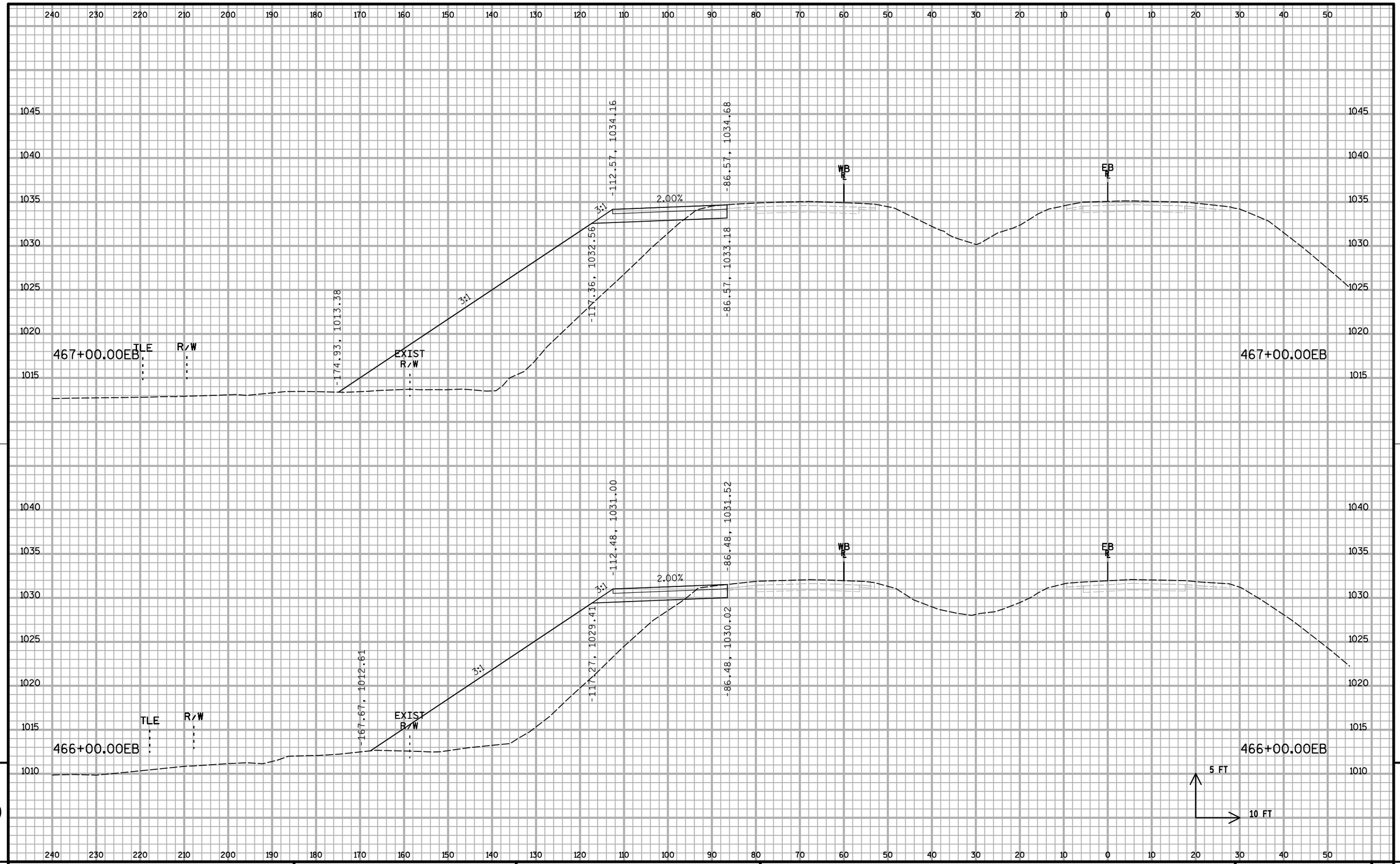


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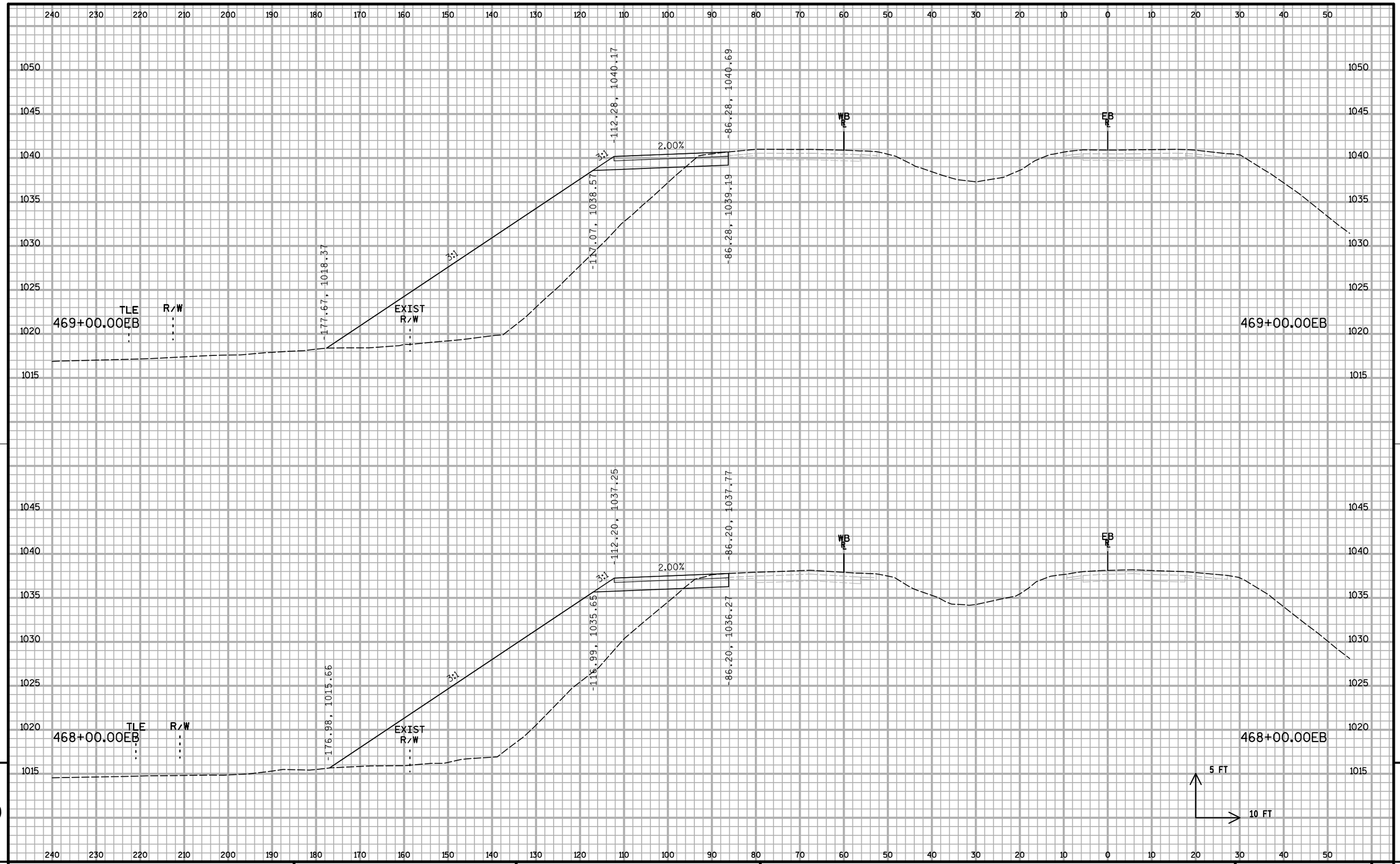


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

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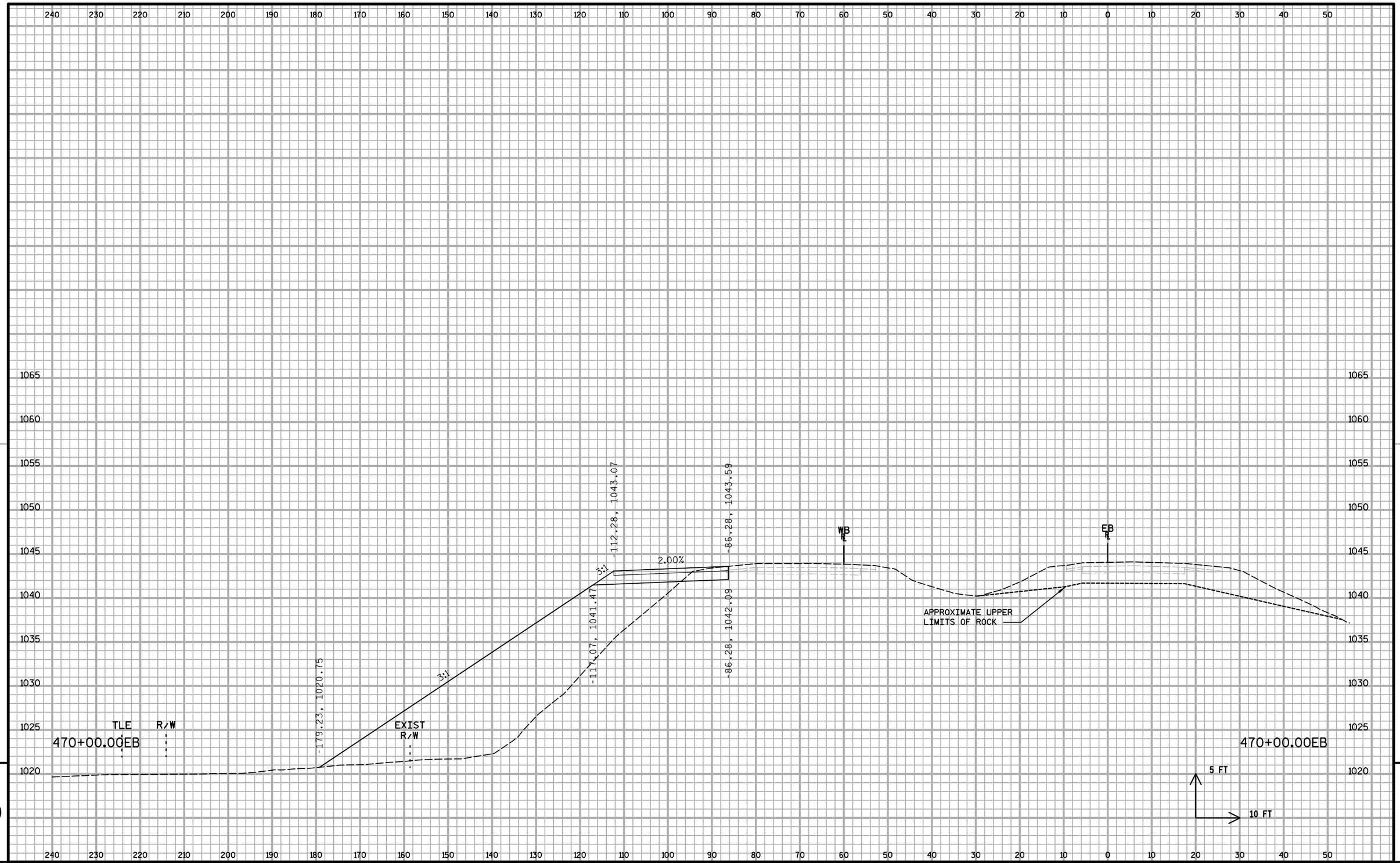


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

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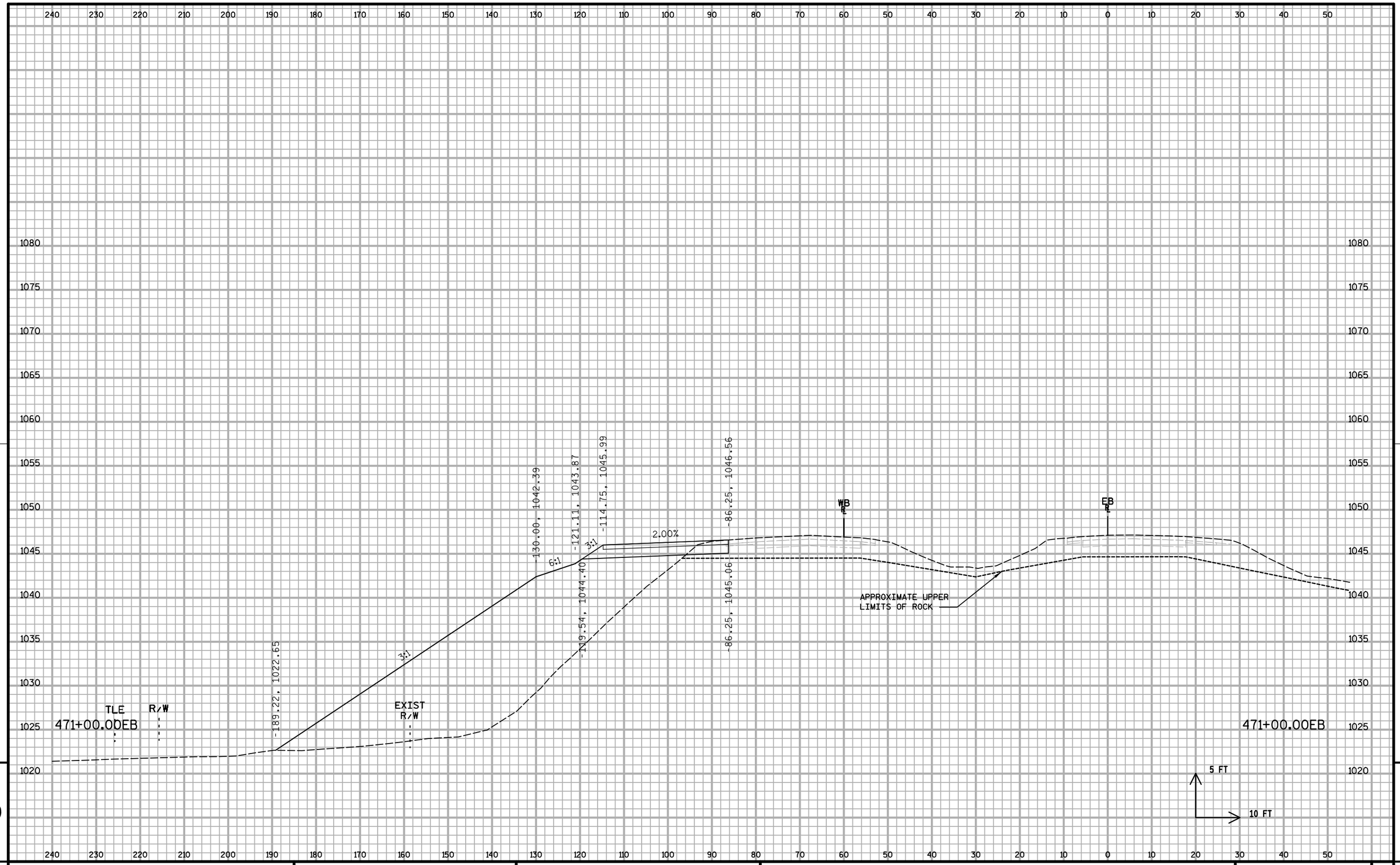


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

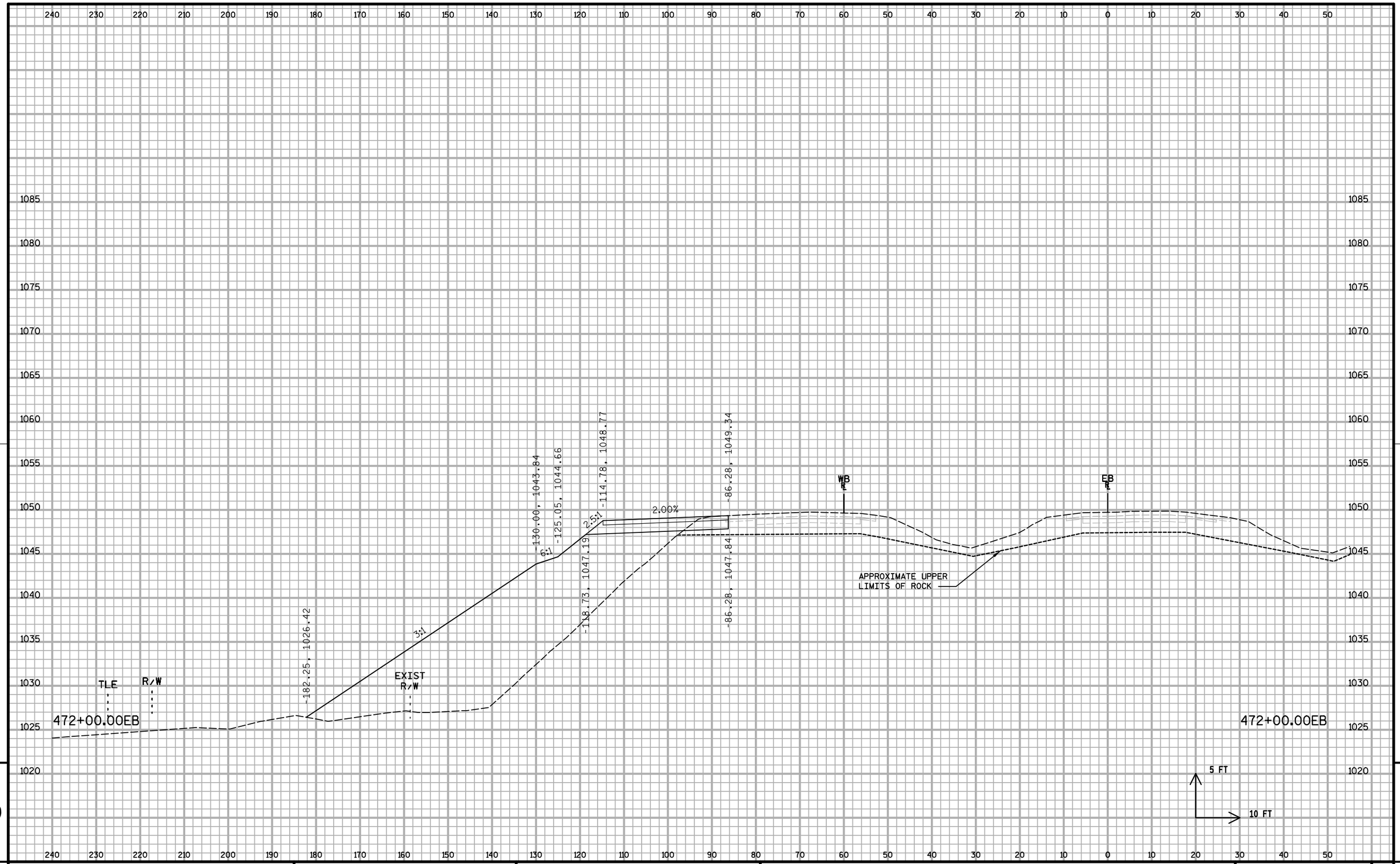
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET: E

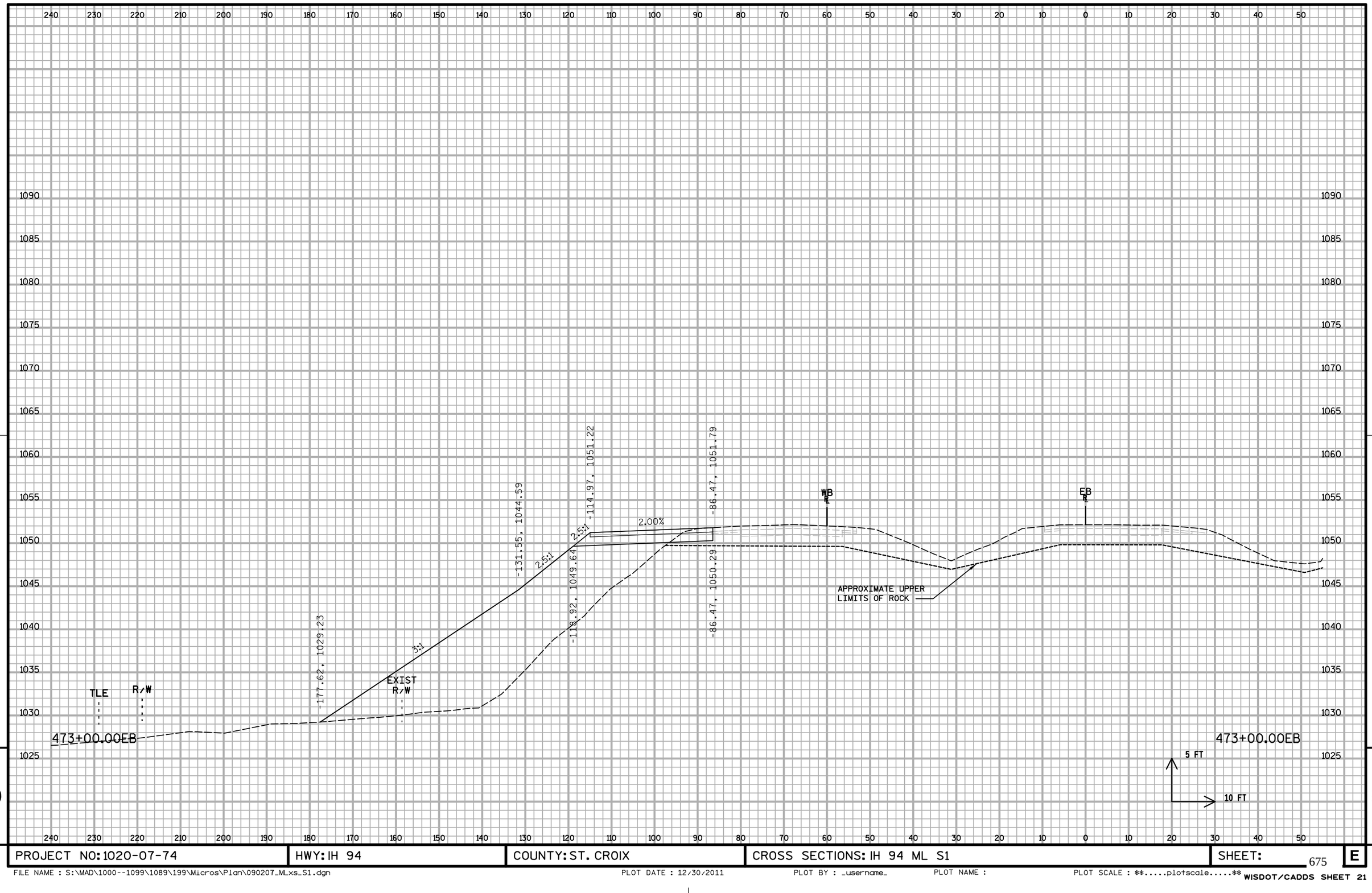
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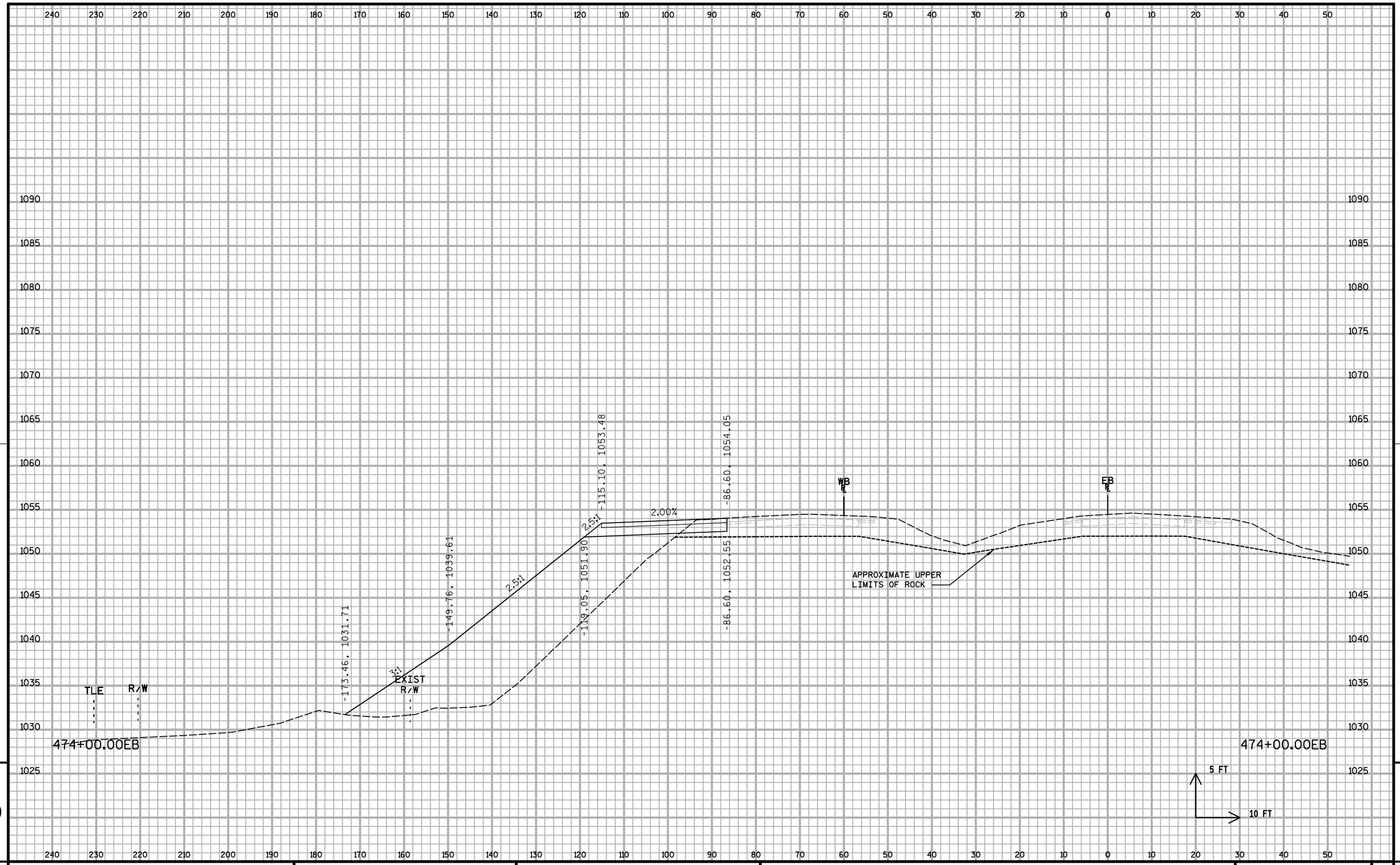
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

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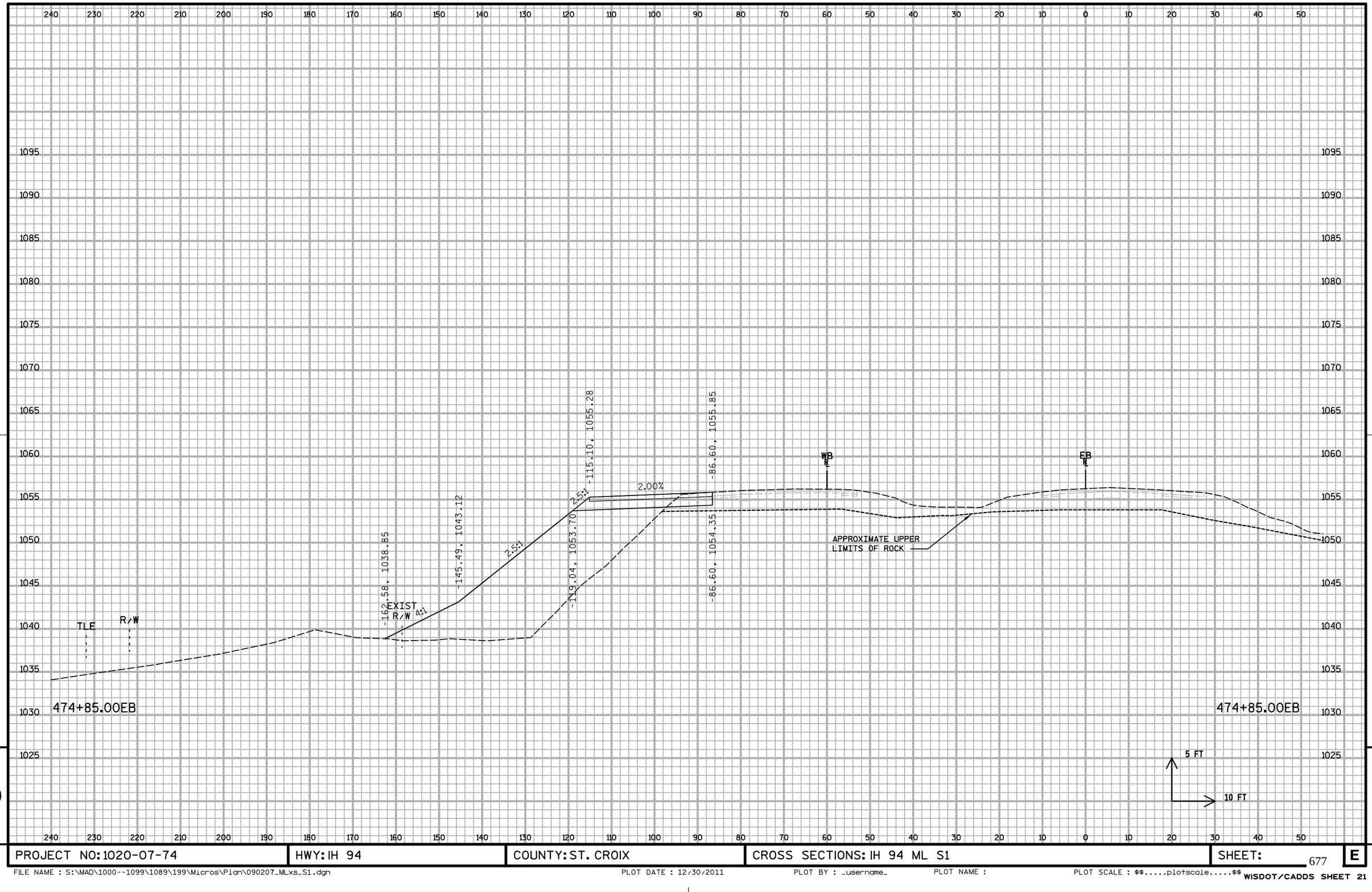


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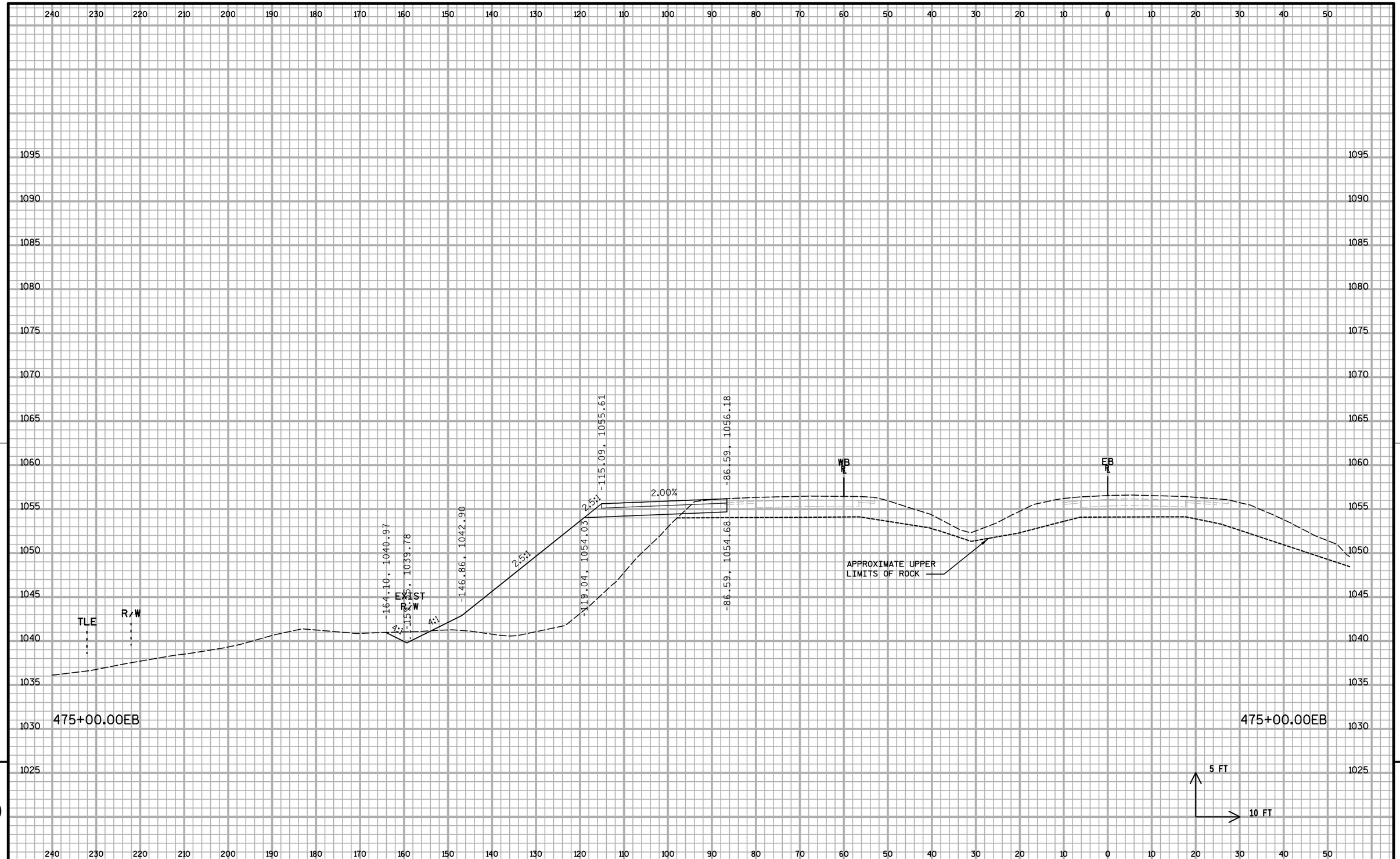
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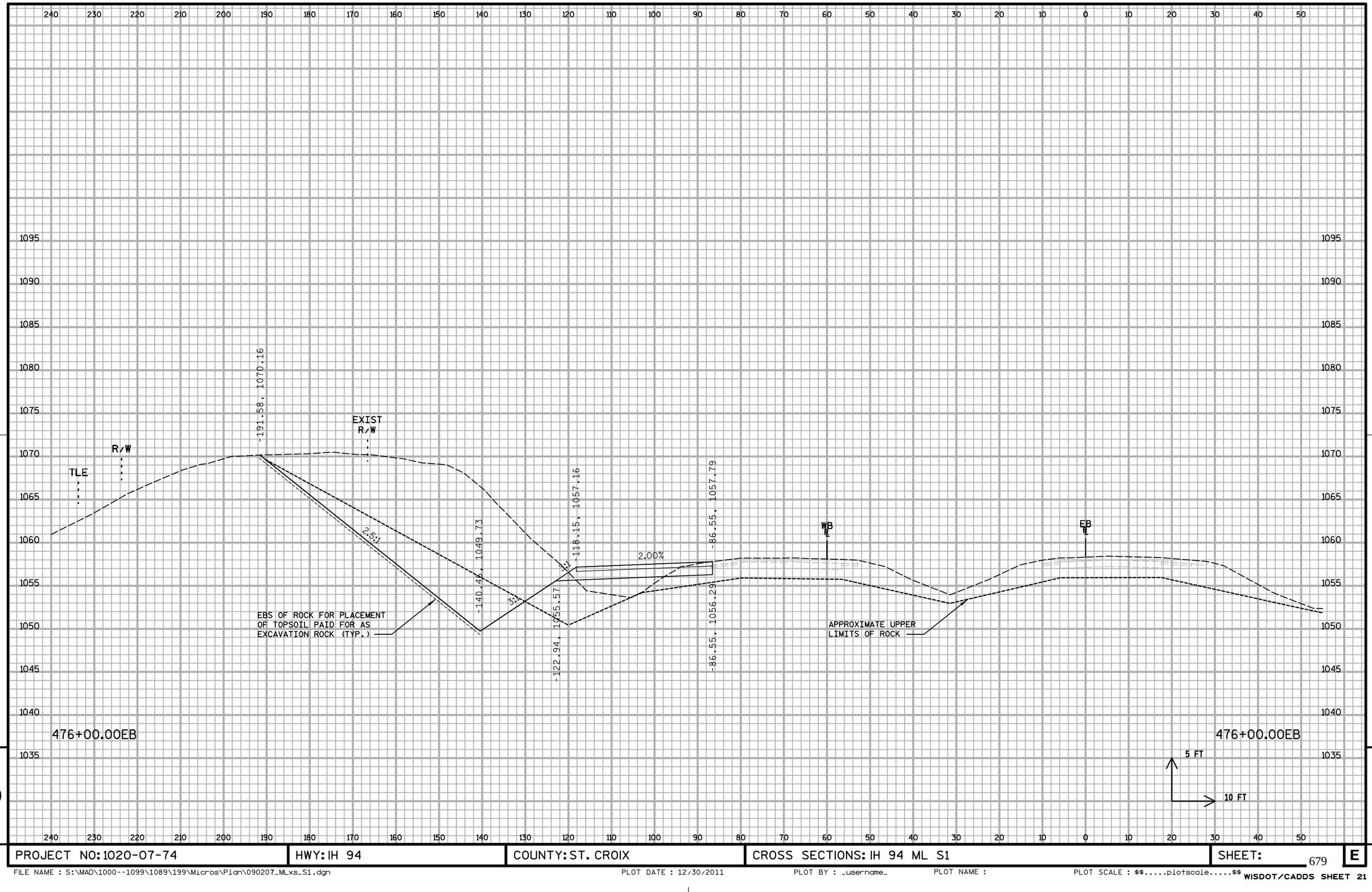
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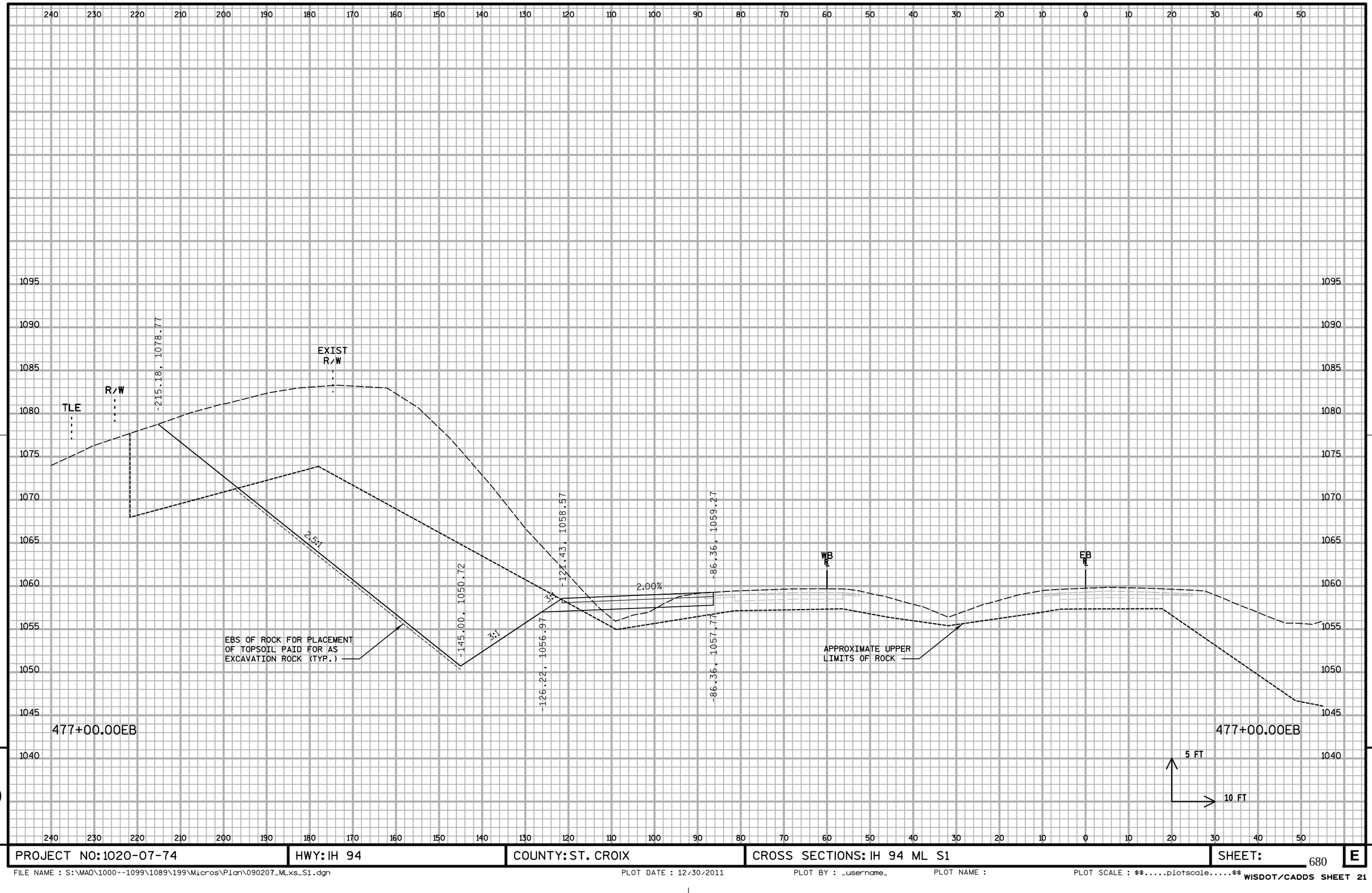
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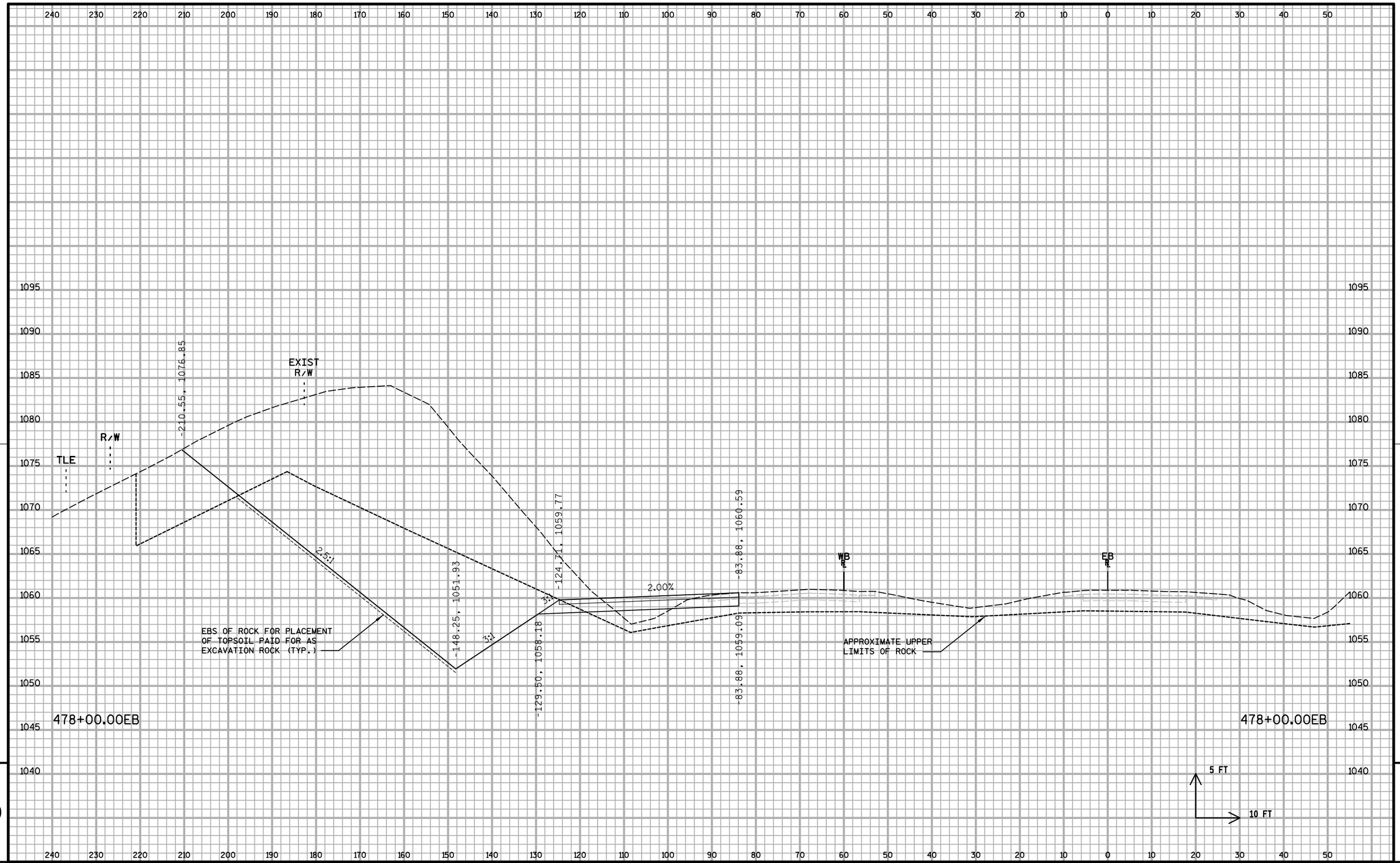
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET: 680	E

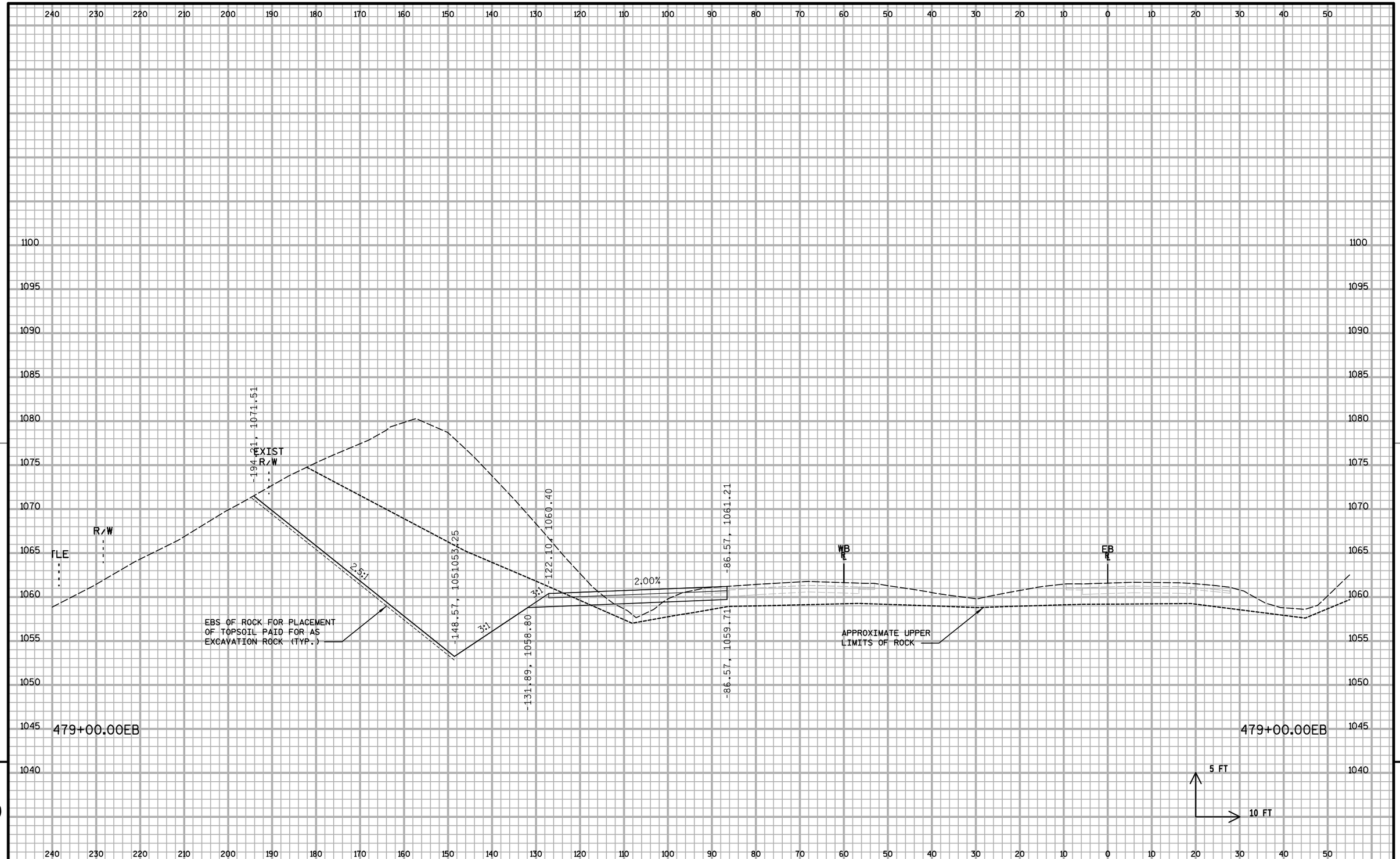
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

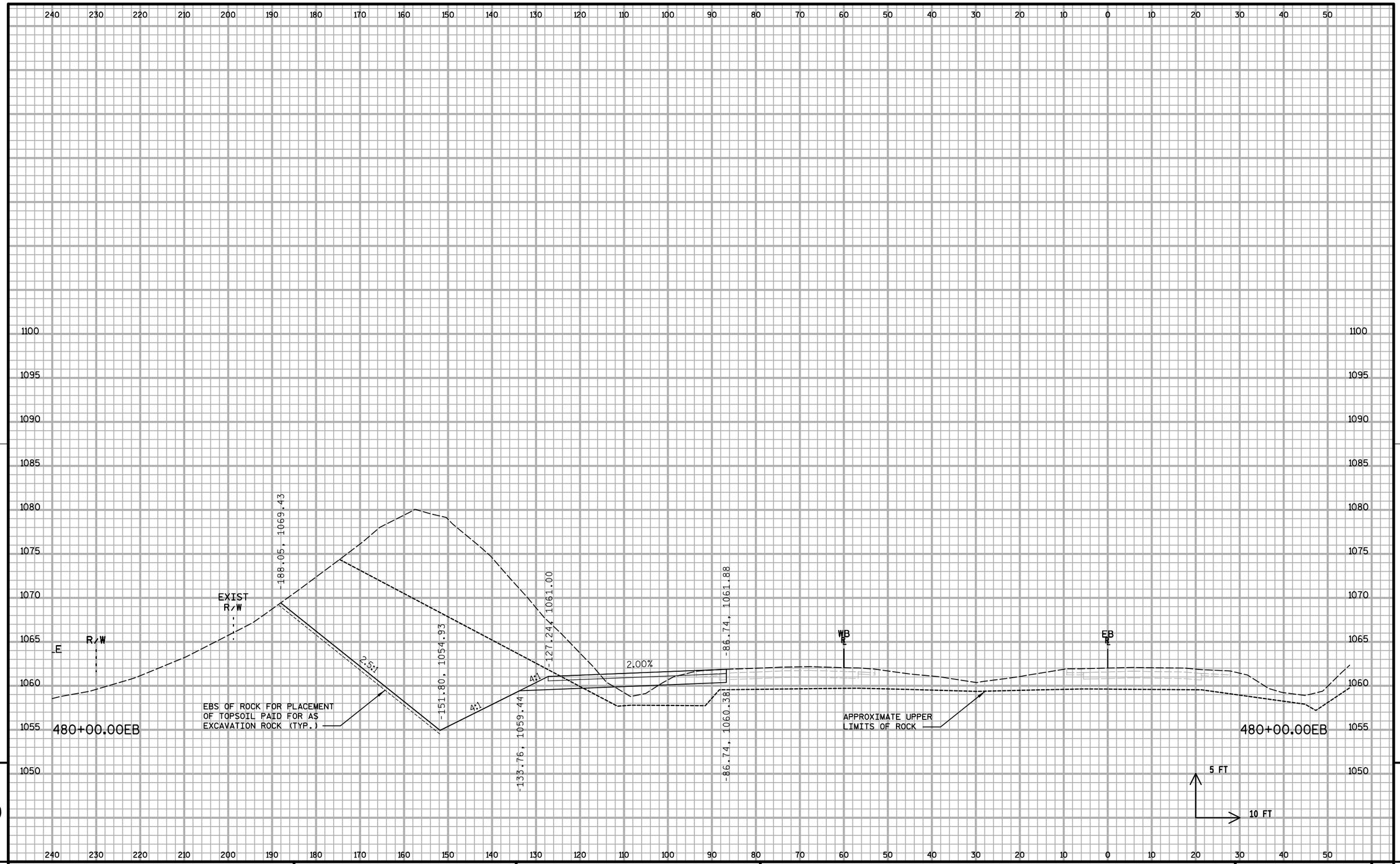
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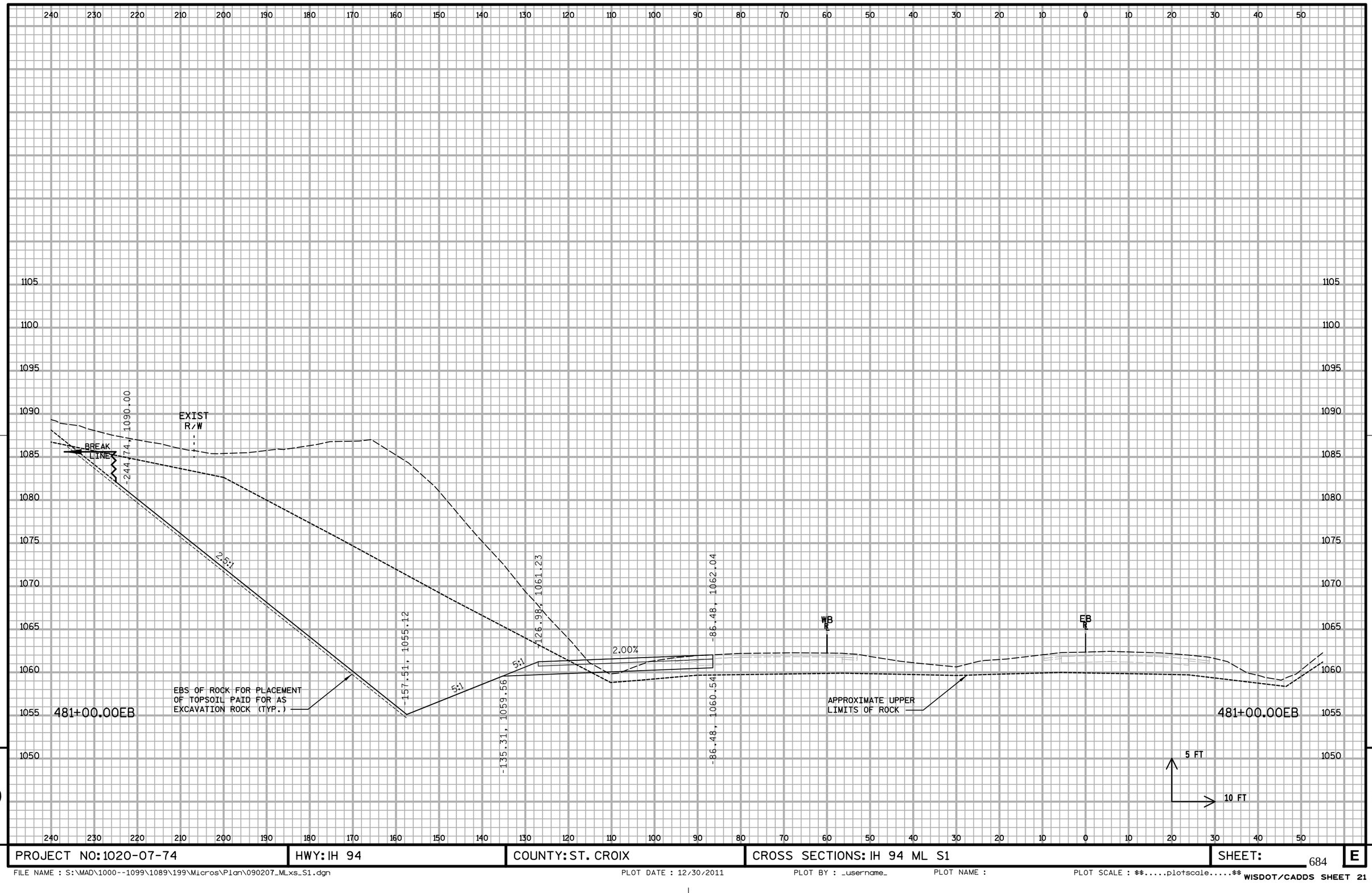
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

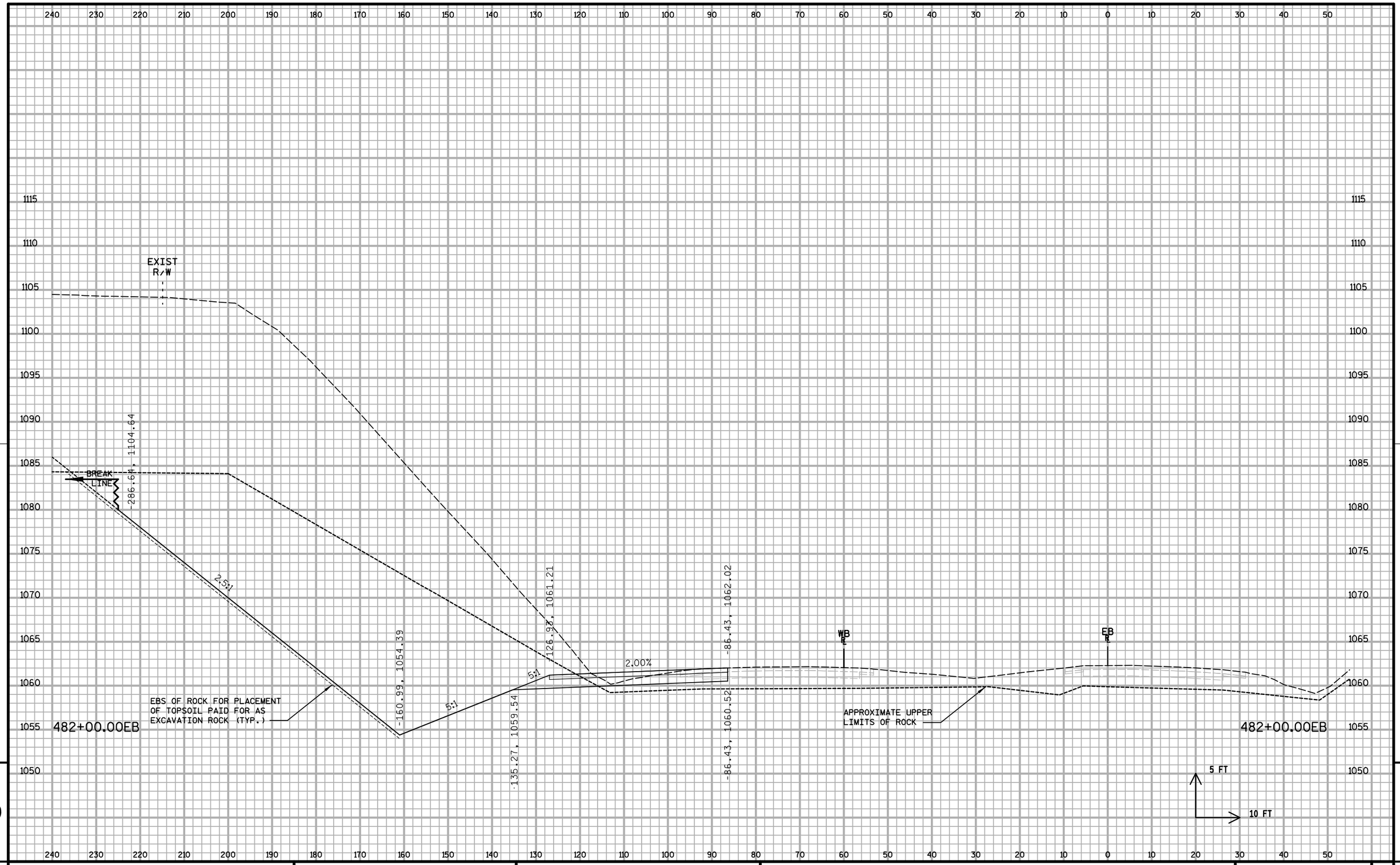


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

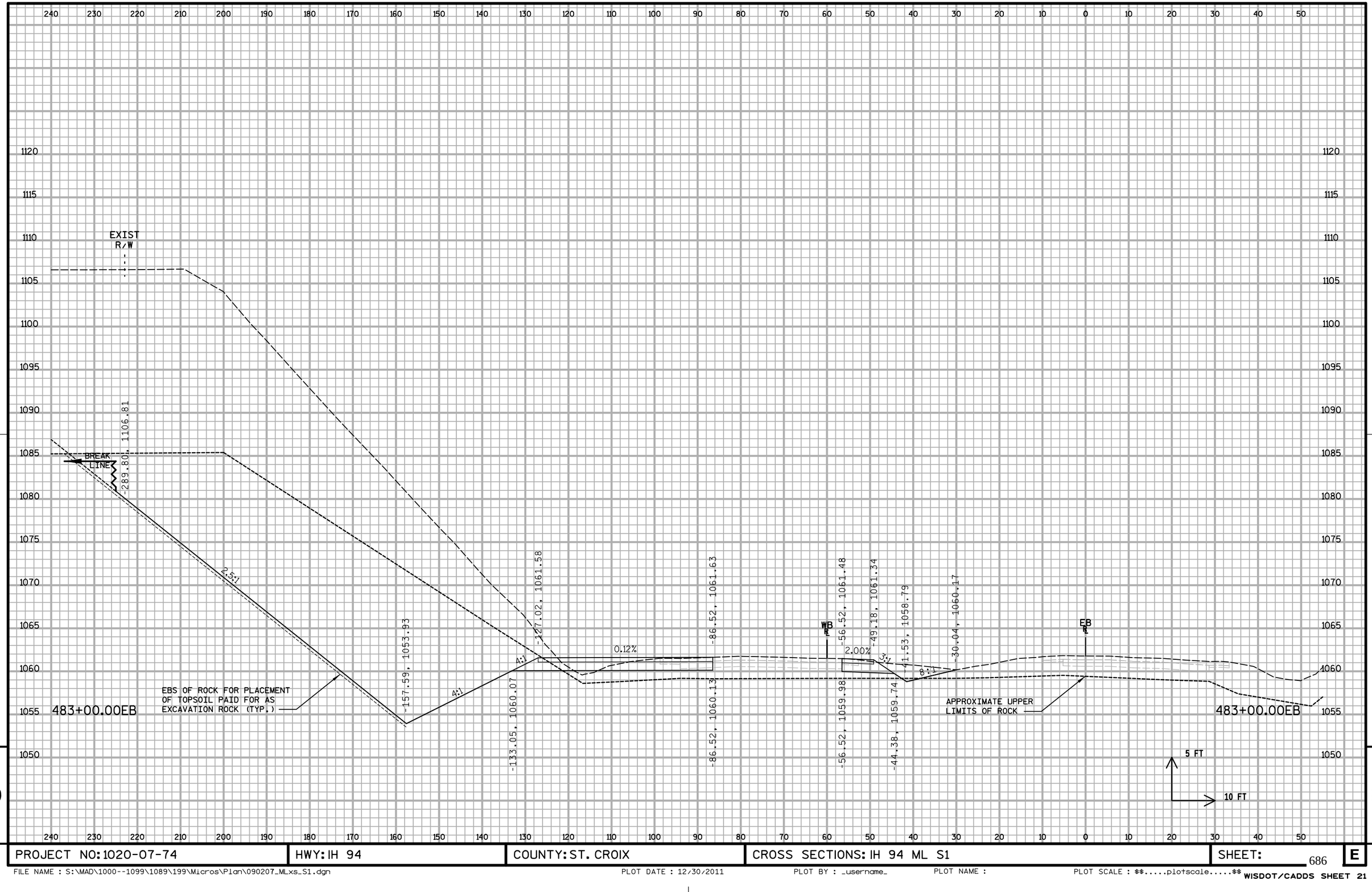


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET: E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



9 9

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

EXIST R/W

BREAK LINE

-282.03, 1102.51

2.5:1

-159.10, 1053.39

3.5:1

-132.04, 1061.20

-127.36, 1062.55

3.5:1

3.21%

-86.86, 1061.25

-86.86, 1059.75

WB

-56.86, 1060.51

-56.86, 1059.01

3.21%

-43.21, 1060.07

3.5:1

-35.95, 1057.66

-38.23, 1058.41

4.2

-31.12, 1058.75

EB

484+00.00EB

EBS OF ROCK FOR PLACEMENT OF TOPSOIL PAID FOR AS EXCAVATION ROCK (TYP.)

APPROXIMATE UPPER LIMITS OF ROCK

484+00.00EB

5 FT

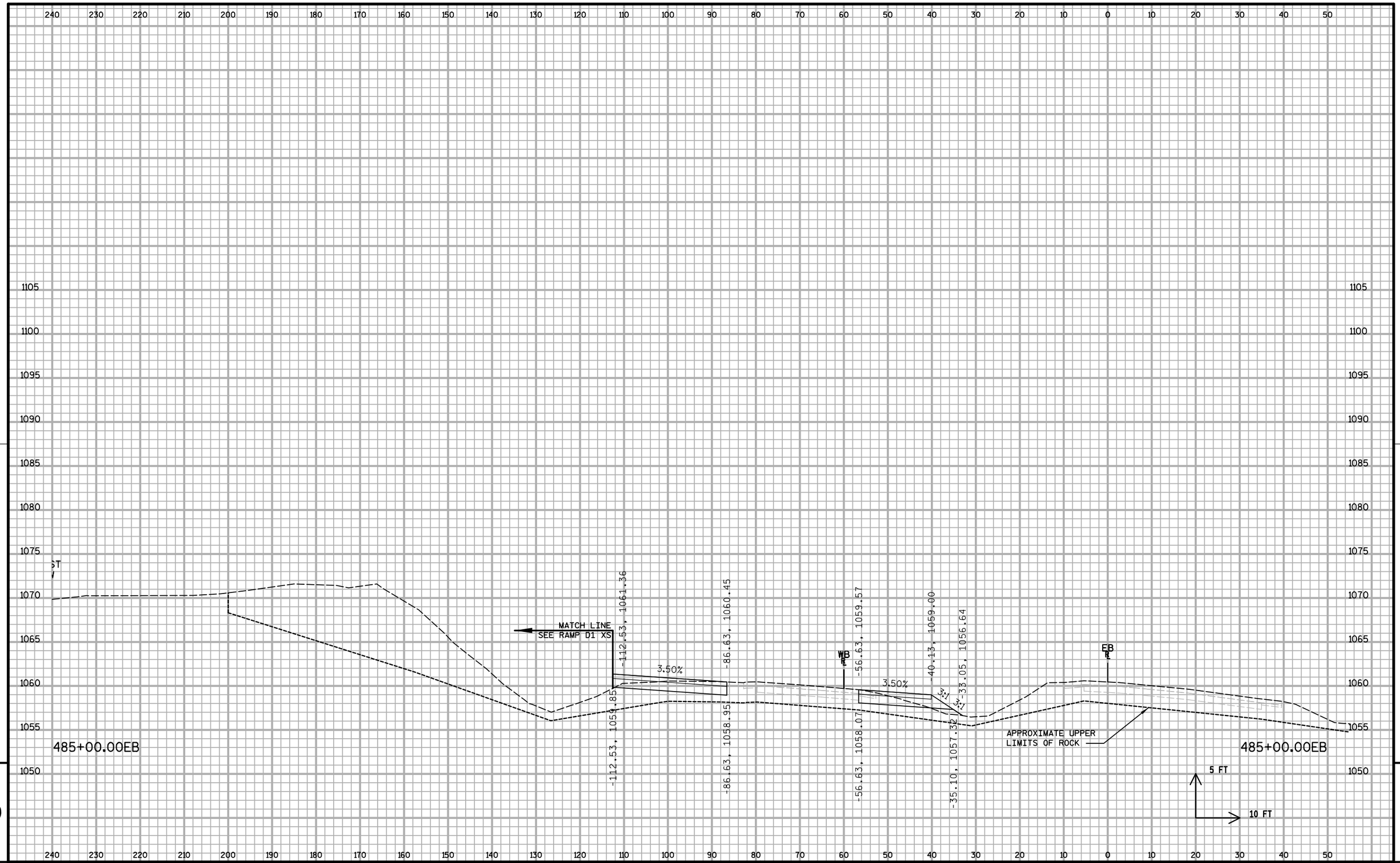
10 FT

9

9

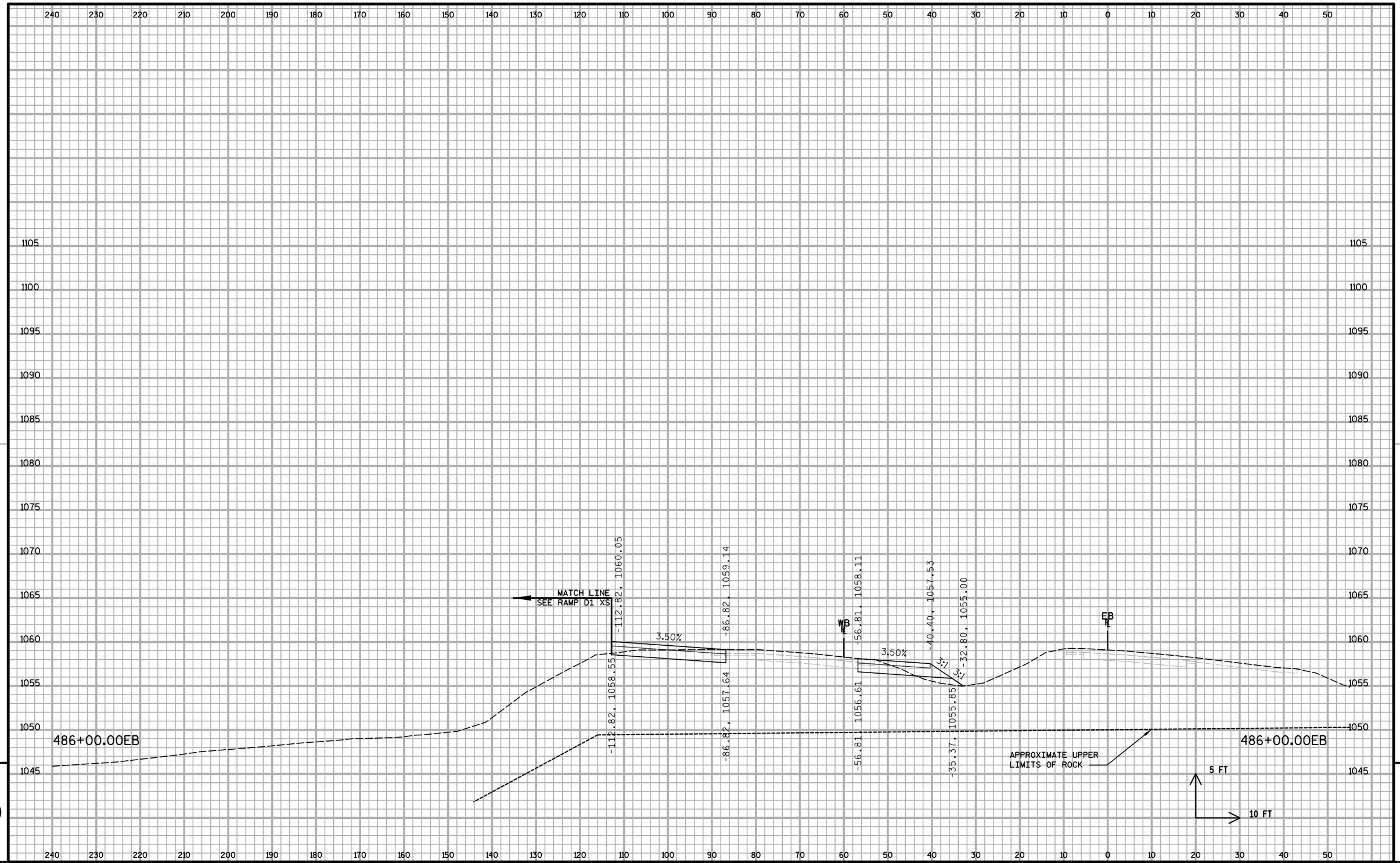
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



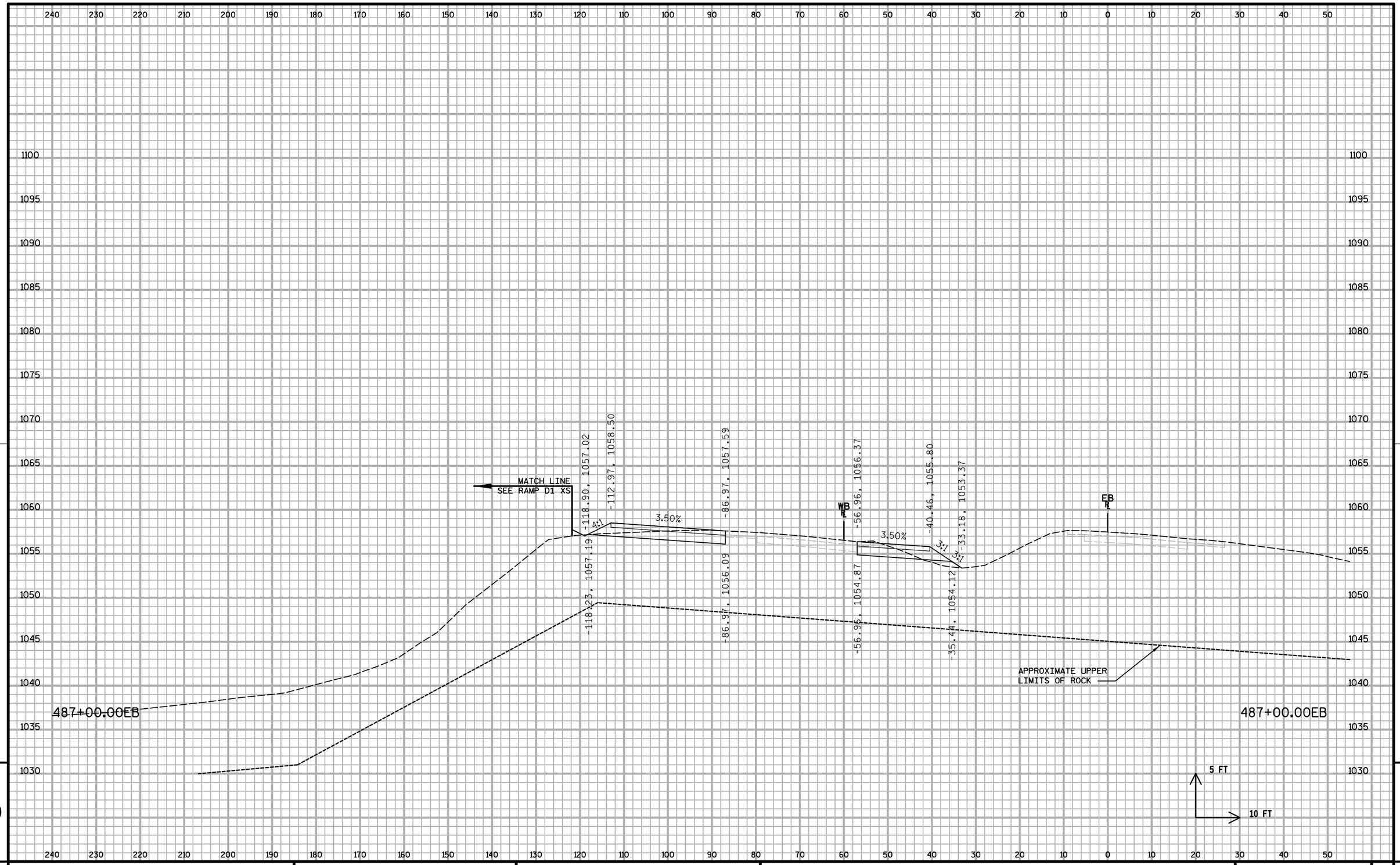
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



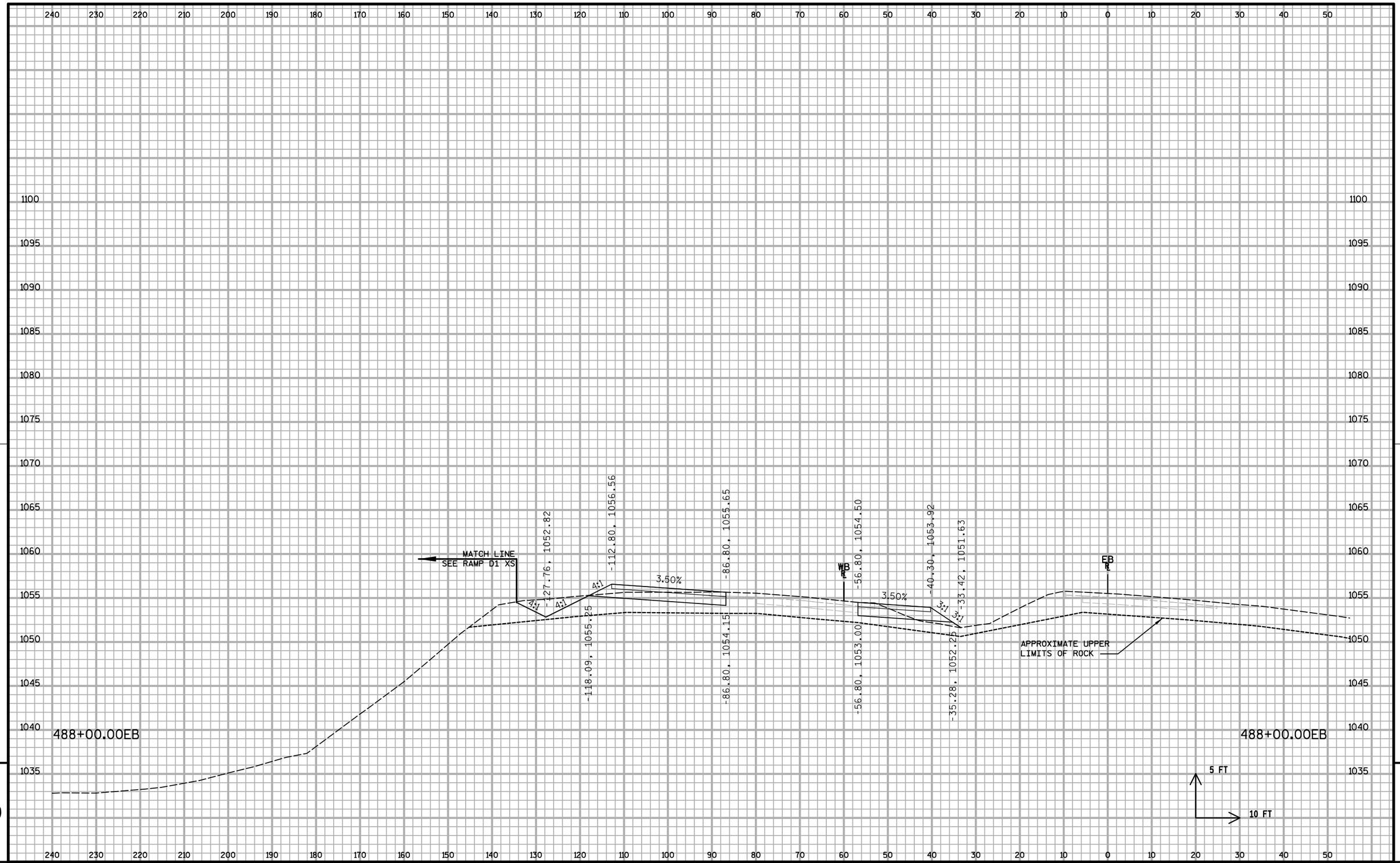
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



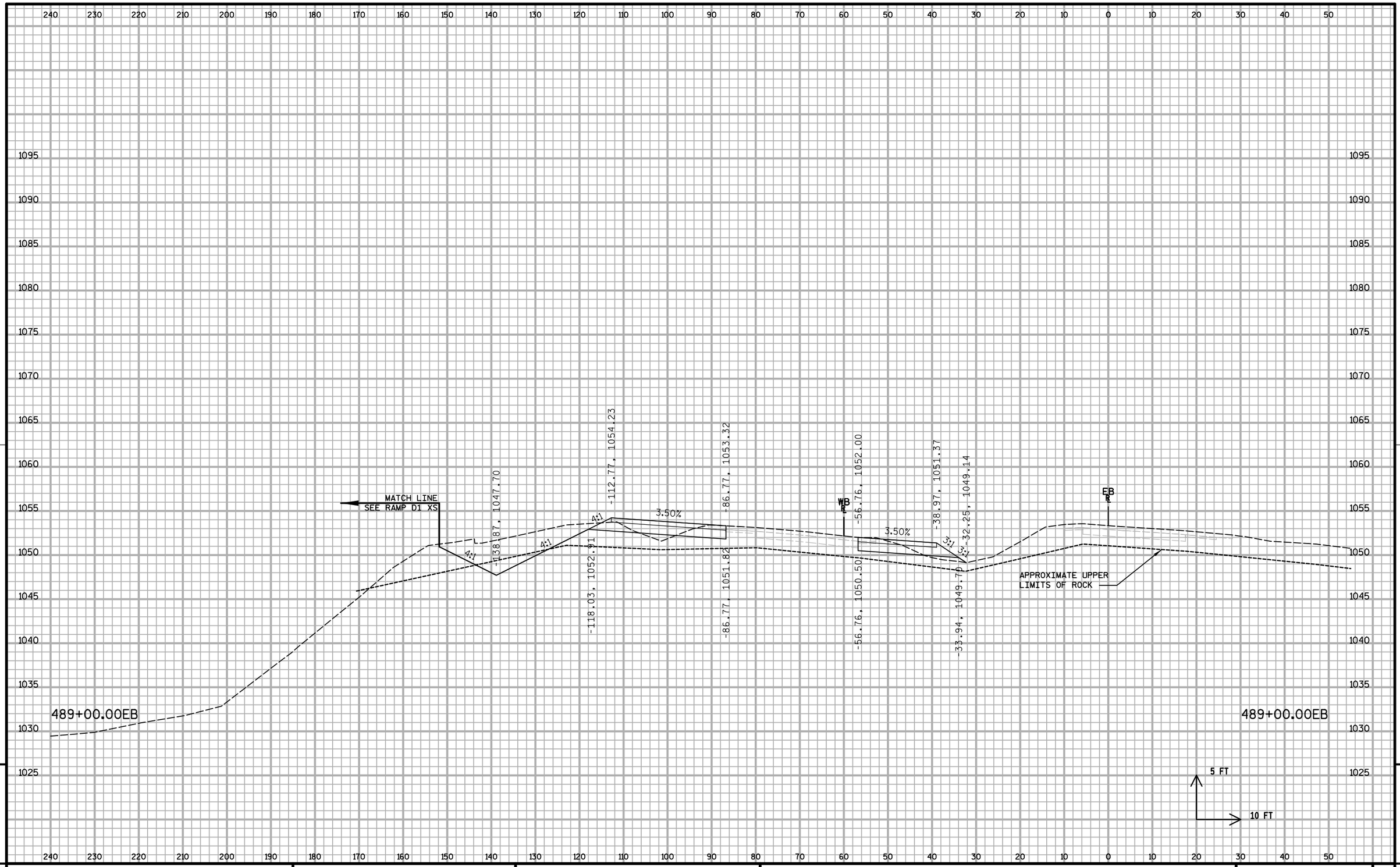
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET: E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET: E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50

1085
1080
1075
1070
1065
1060
1055
1050
1045
1040
1035
1030
1025

-124.03, 1047.66
3:1
3:1
-113.04, 1051.32
3.50%
-87.04, 1050.41
-117.11, 1049.97
-87.04, 1048.91
WB
-57.04, 1049.49
3.57%
-36.93, 1048.77
3:1
3:1
-30.22, 1046.53
-57.04, 1047.99
-31.89, 1047.09
EB

490+00.00EB

490+00.00EB

5 FT
10 FT

9

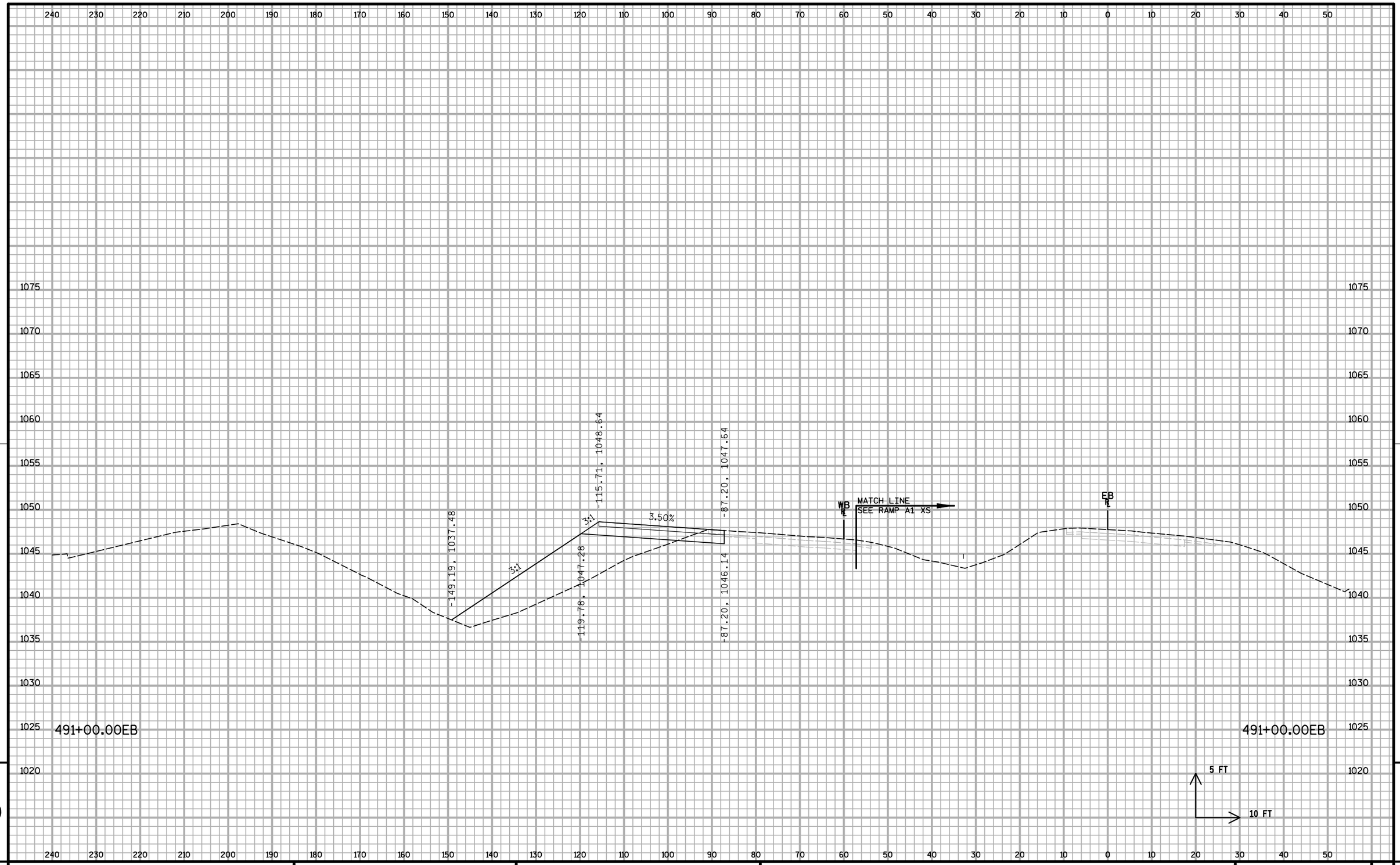
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240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50

PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



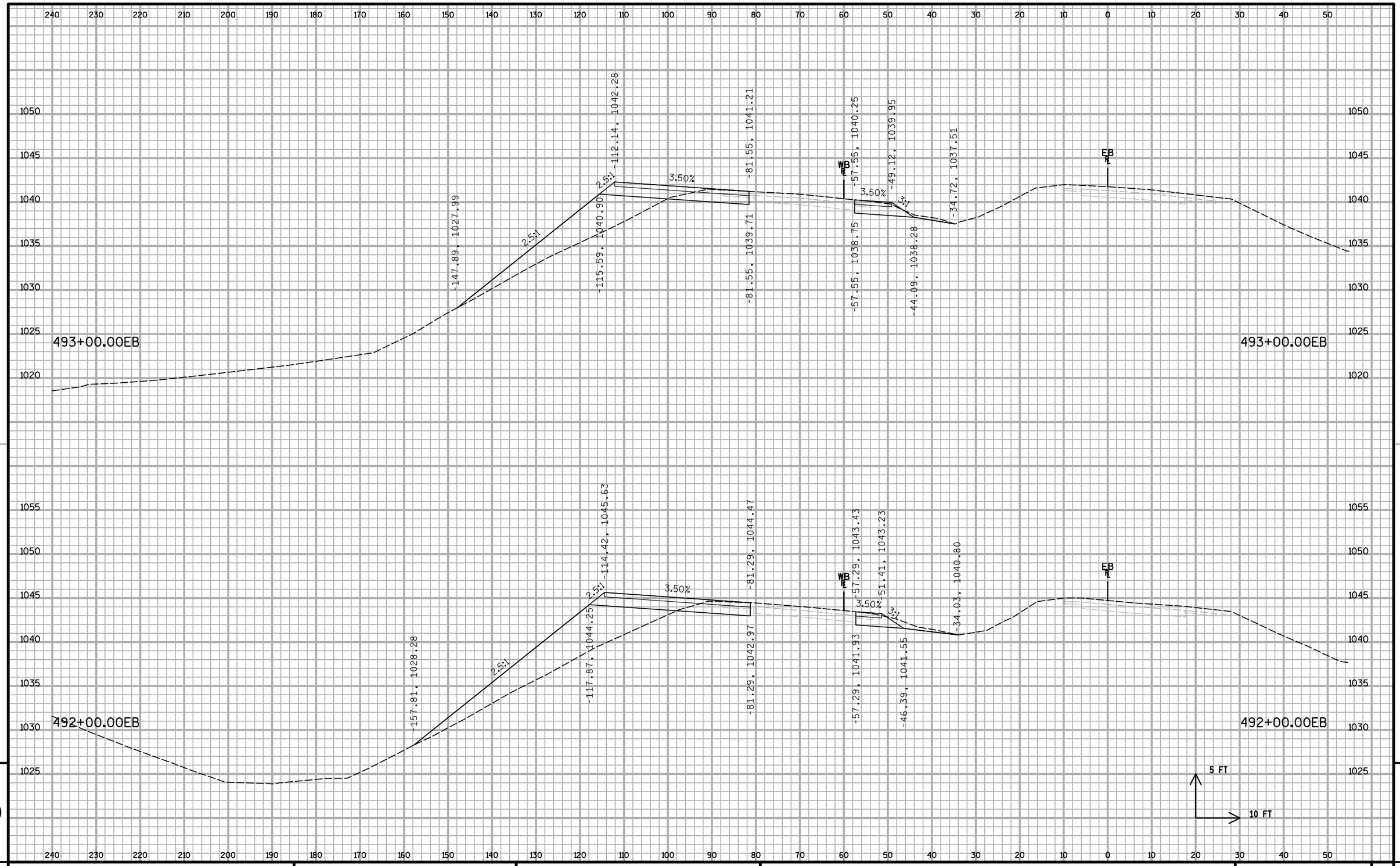
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

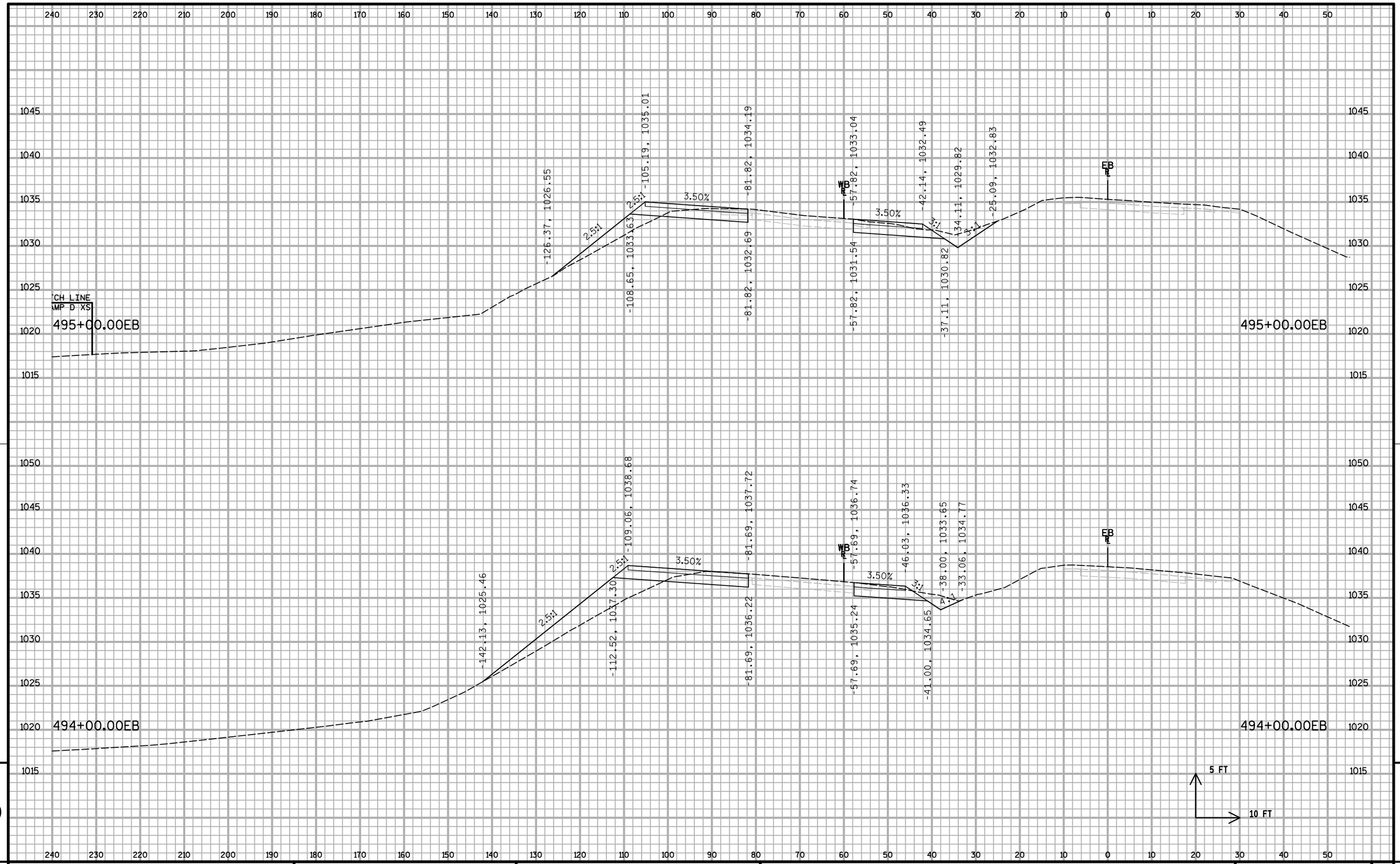
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WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

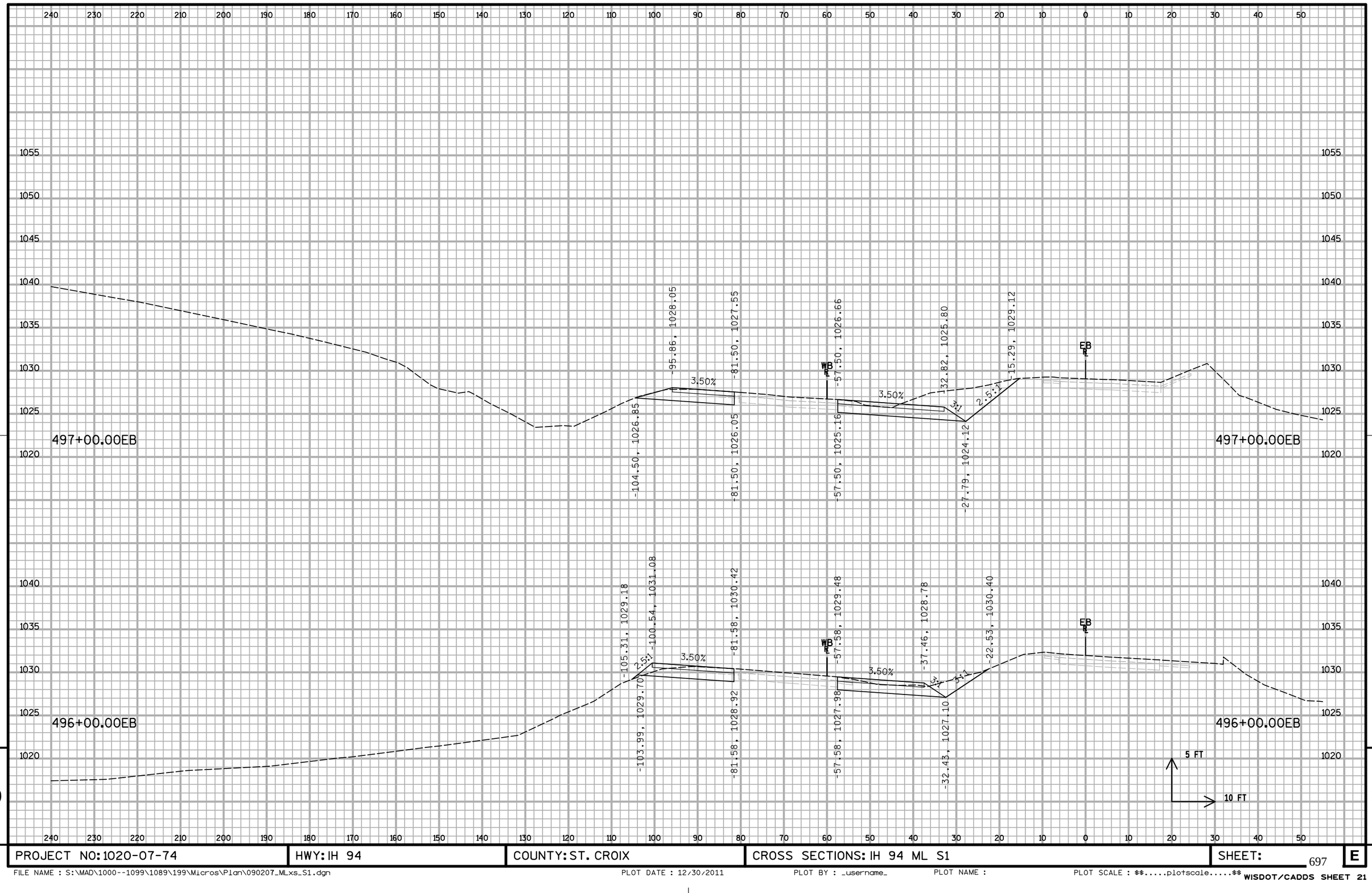


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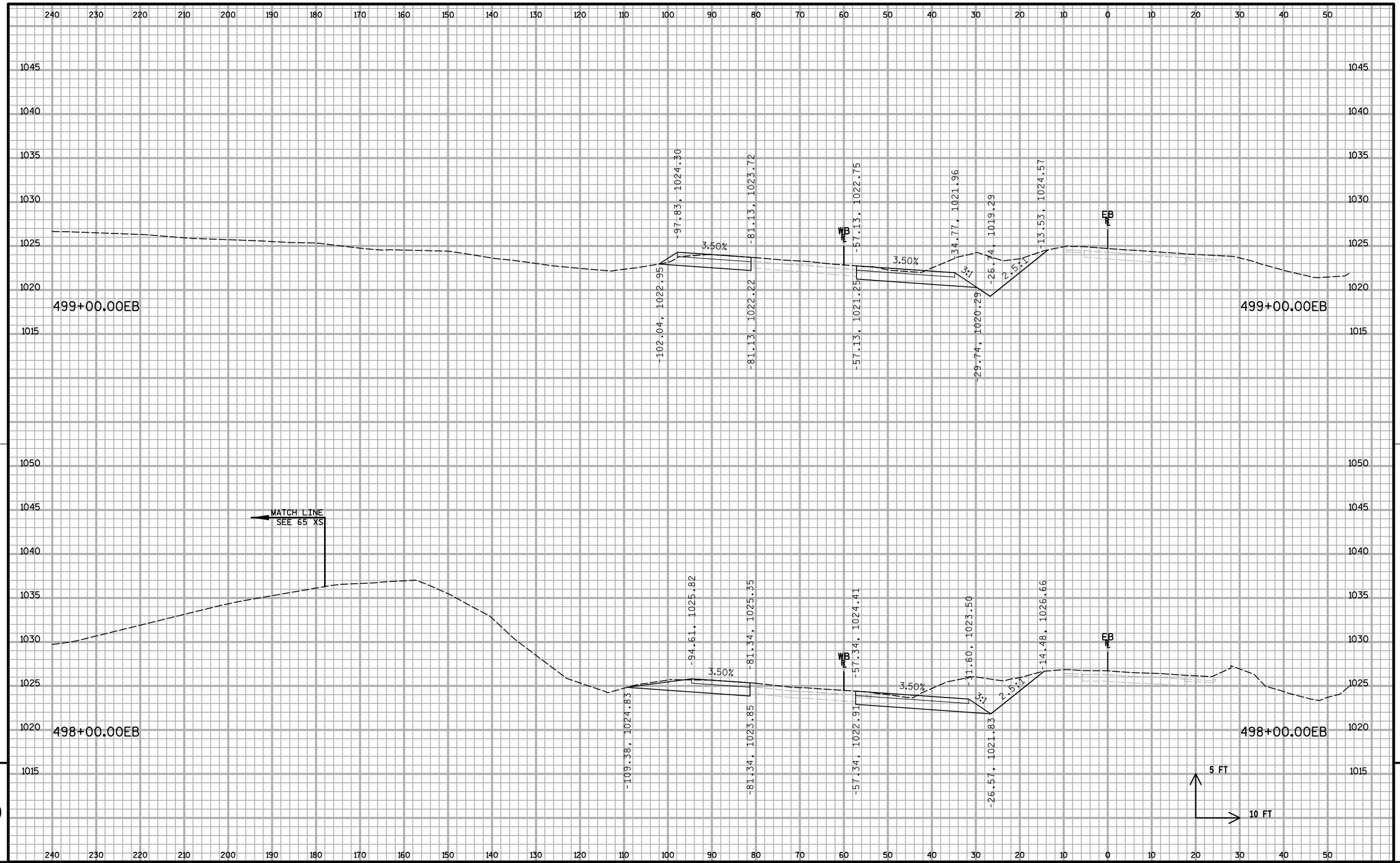
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

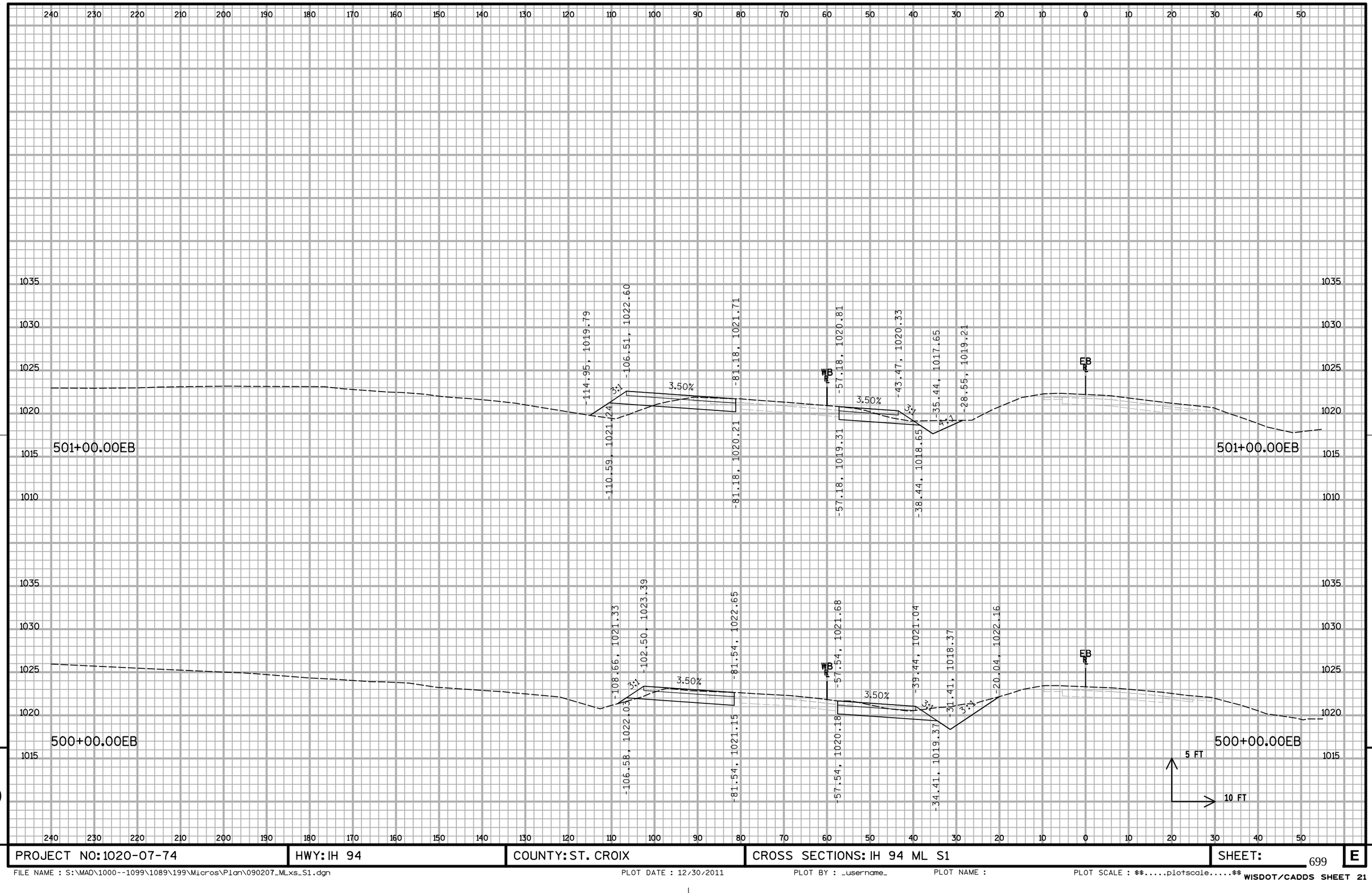


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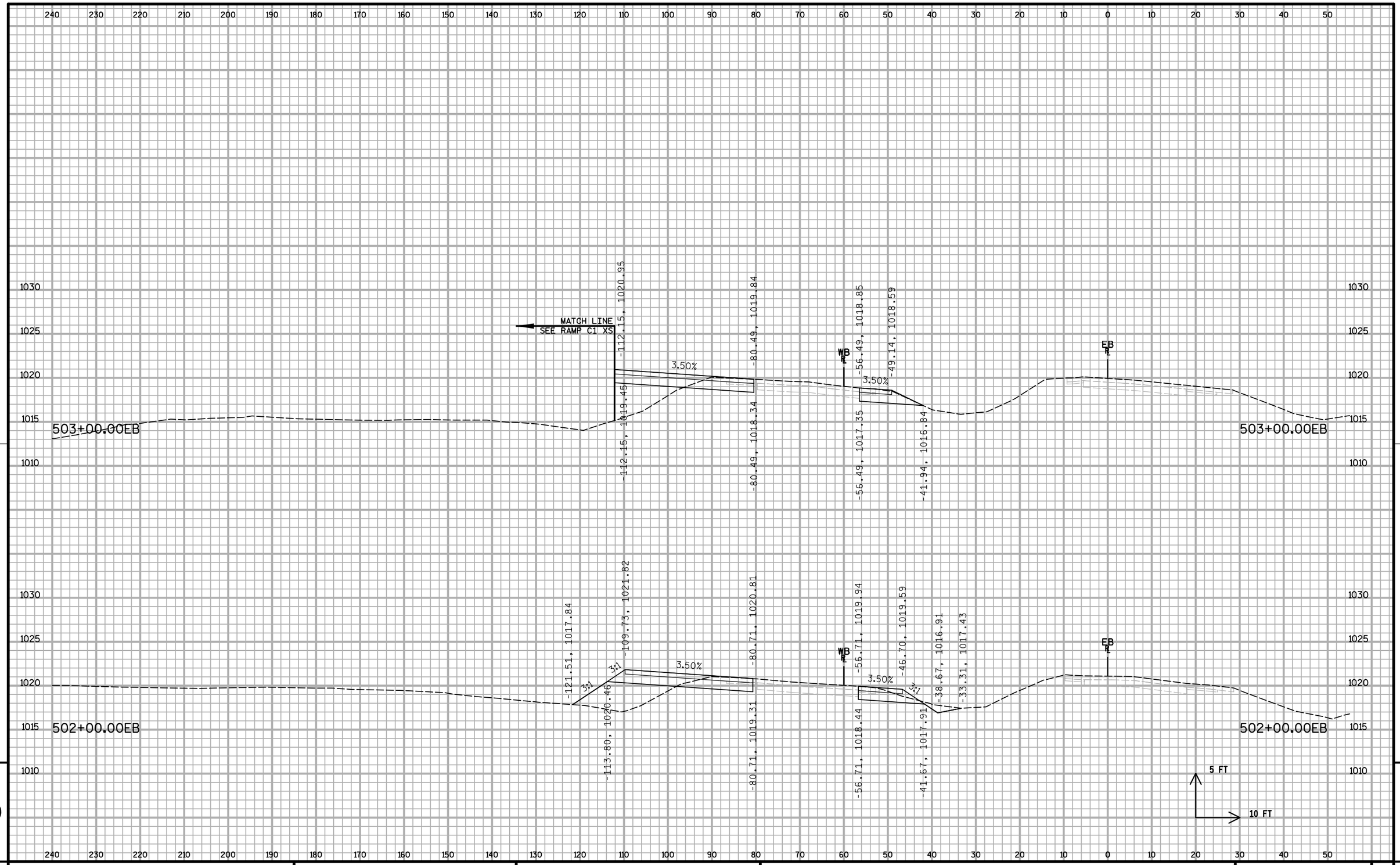
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

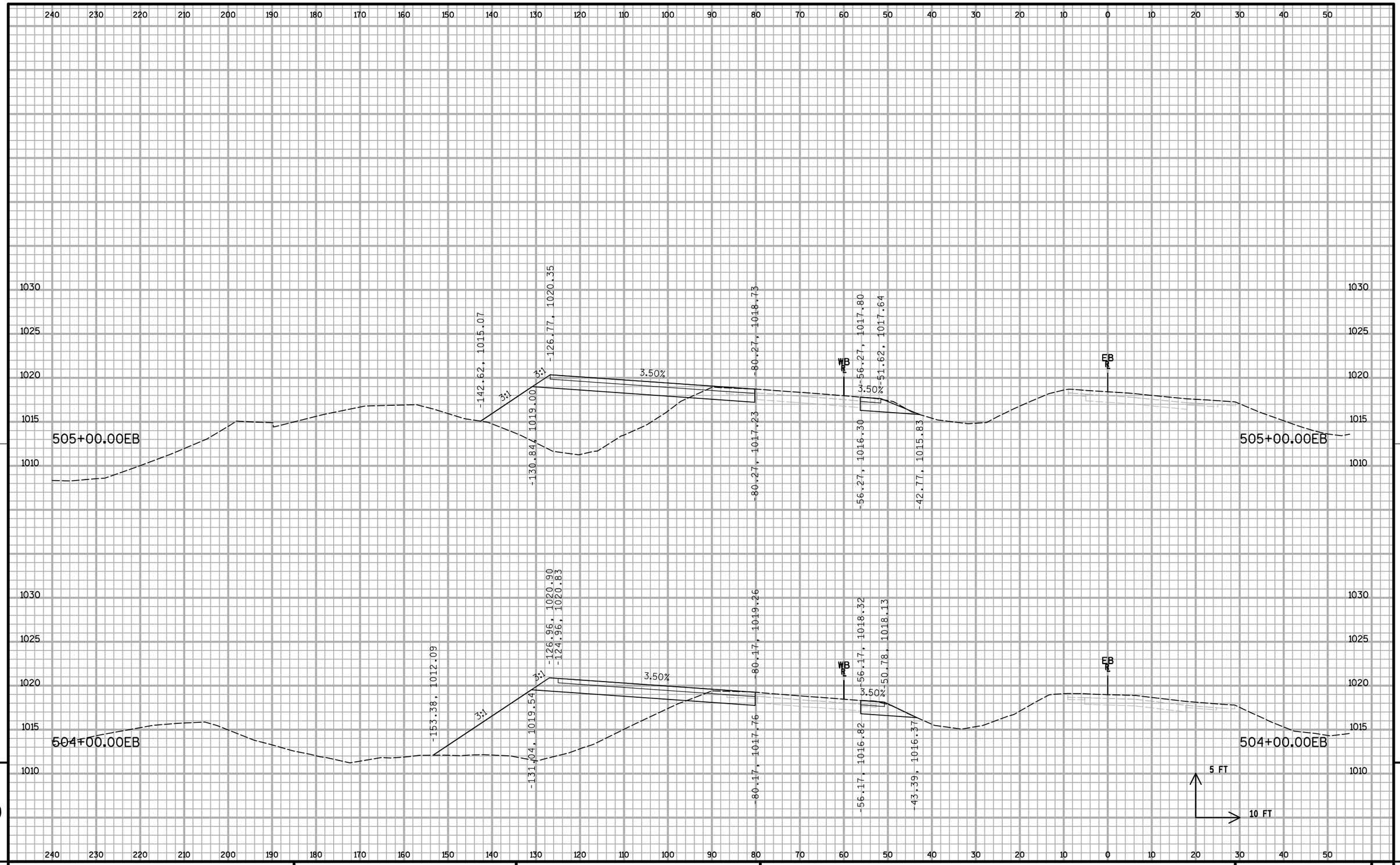


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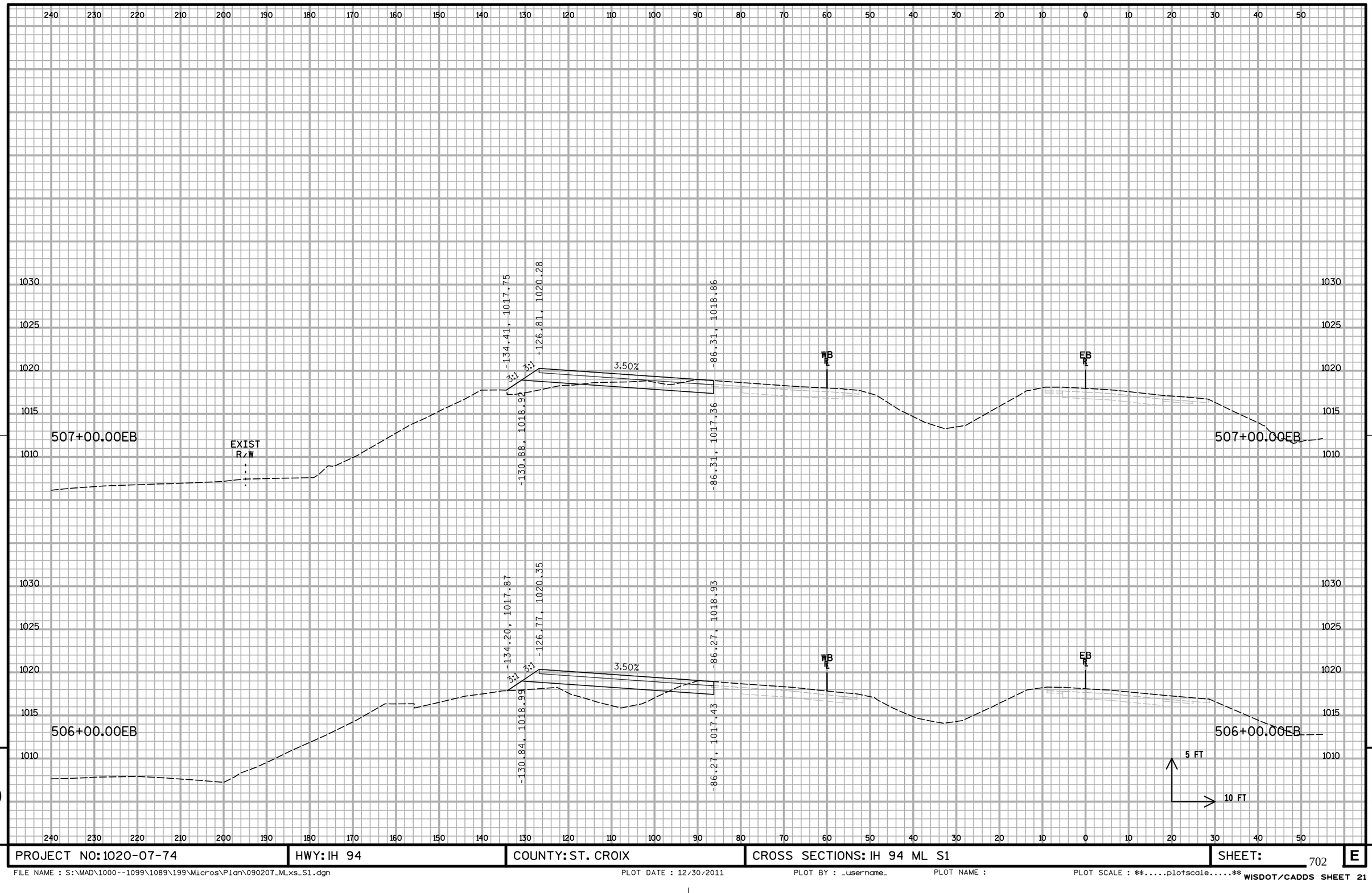
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

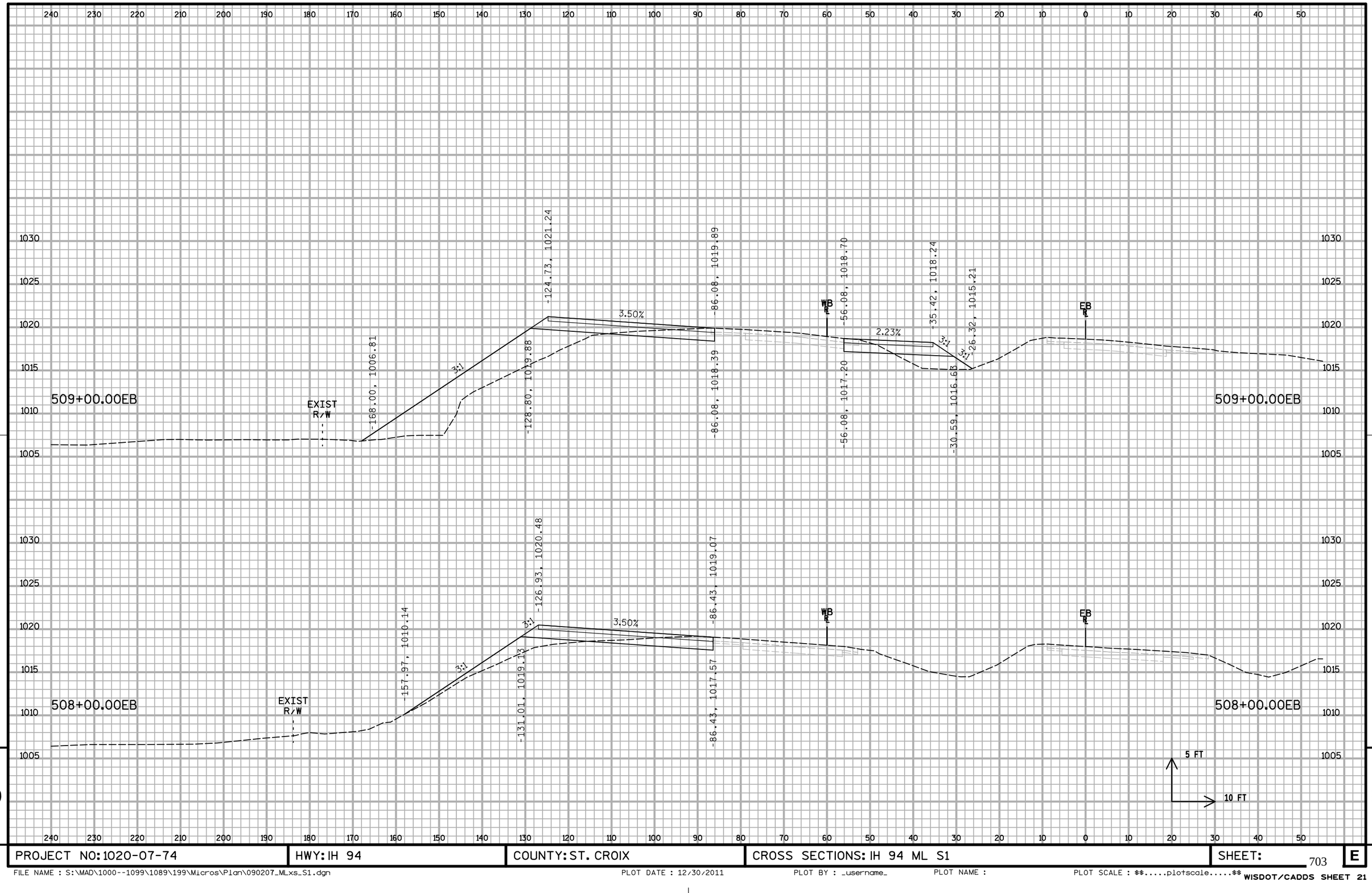


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50

1030 1025 1020 1015 1010 1005

511+00.00EB

TLE EXIST R/W

-163.40, 1007.77

4:1

-130.12, 1017.34
-125.80, 1018.06
-124.76, 1018.11

6:1

-117.69, 1020.45

3:1

-113.57, 1021.81

3.50%

-85.80, 1020.84

-85.80, 1019.34

WB

-55.80, 1019.69

-55.80, 1018.19

3.50%

-39.30, 1019.12

3:1

3:1

-34.27, 1017.44

-30.83, 1016.30

EB

511+00.00EB

1030 1025 1020 1015 1010 1005

510+00.00EB

TLE EXIST R/W

-163.38, 1007.57

4:1

-154.15, 1009.87

3:1

-123.96, 1019.93

3:1

-119.88, 1021.29

3.50%

-85.82, 1020.10

-85.82, 1018.60

WB

-55.82, 1019.40

-55.82, 1017.90

3.50%

-36.63, 1018.73

3:1

3:1

-31.60, 1017.05

-27.40, 1015.66

EB

510+00.00EB

5 FT

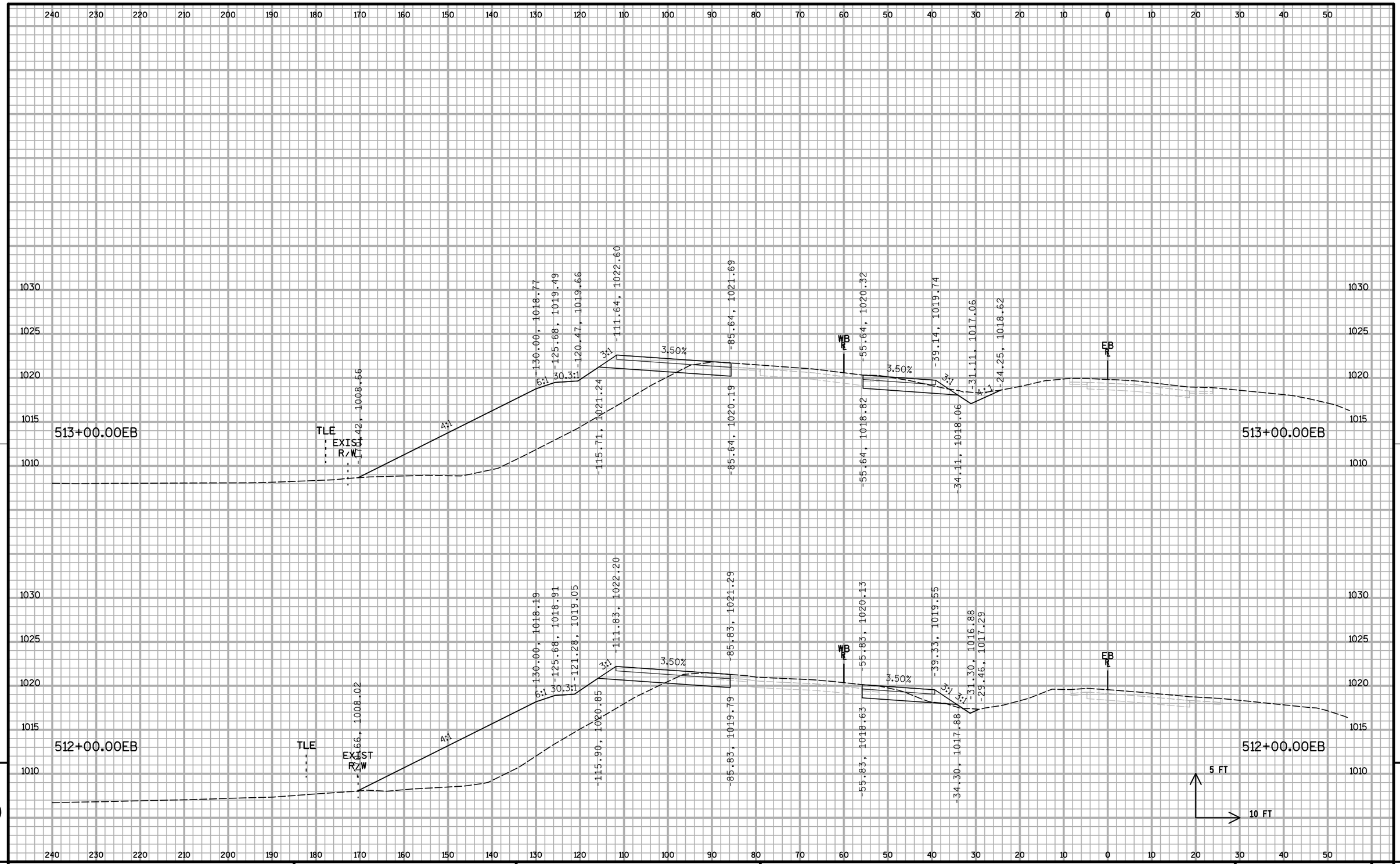
10 FT

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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

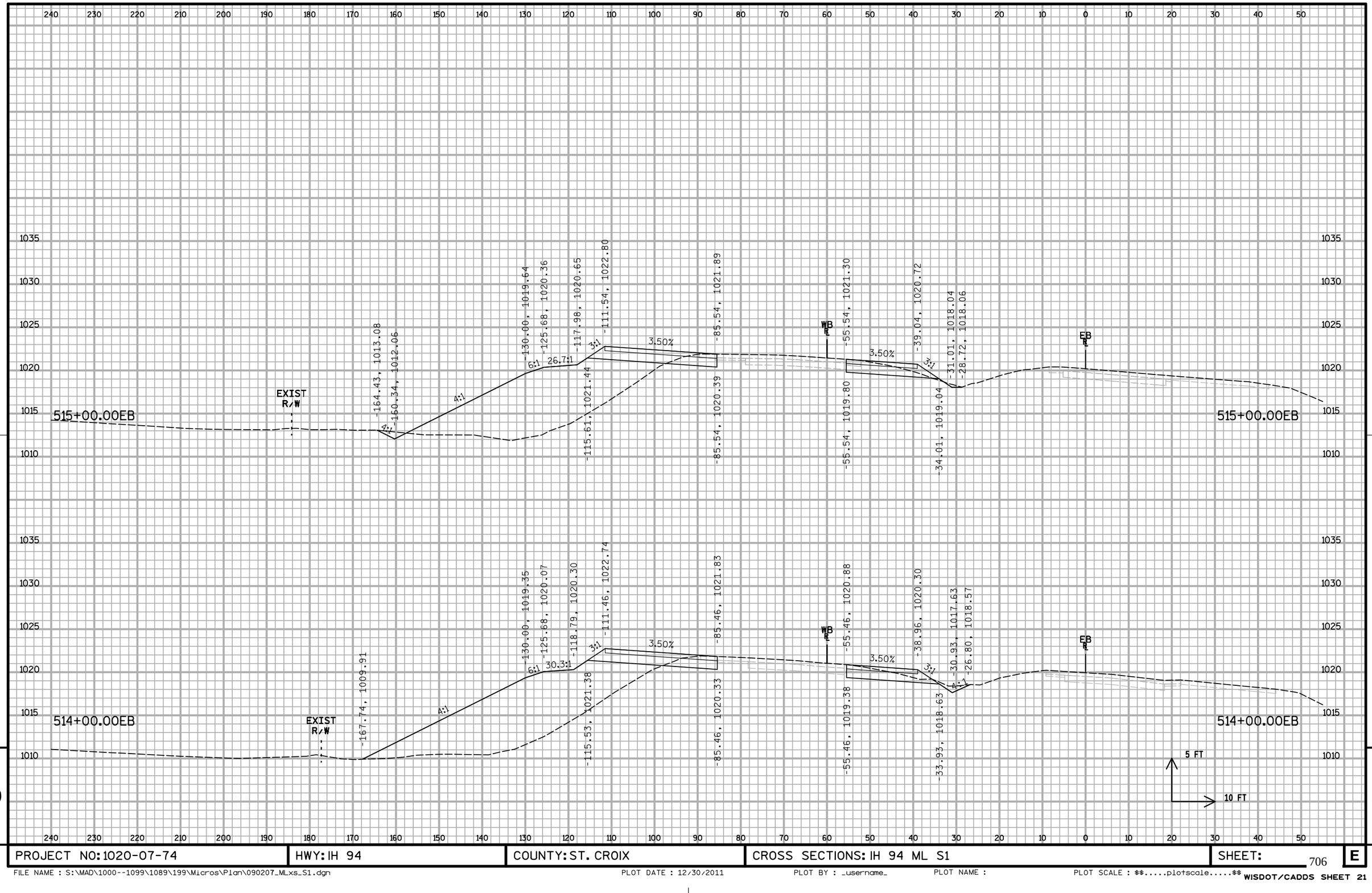


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

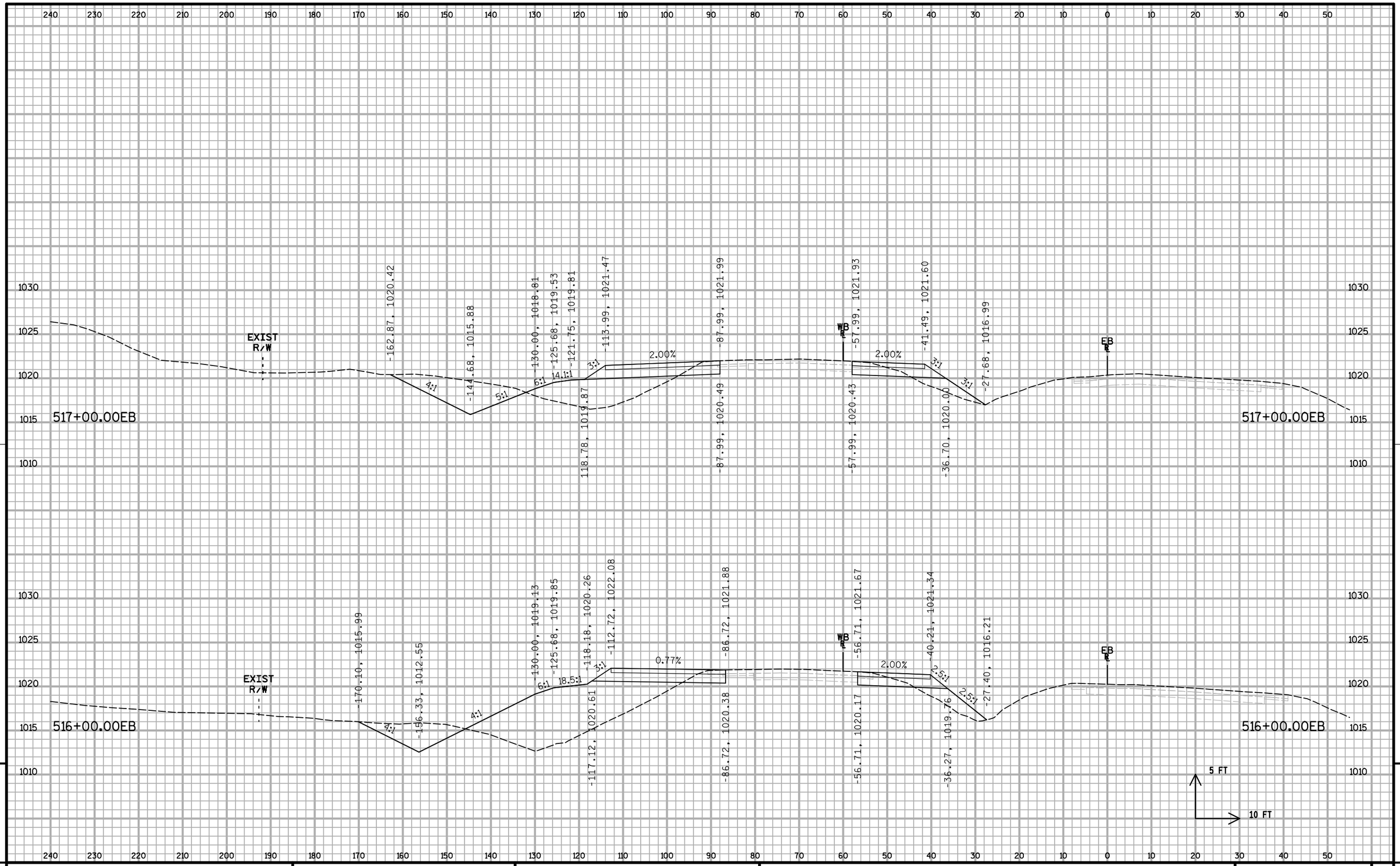


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

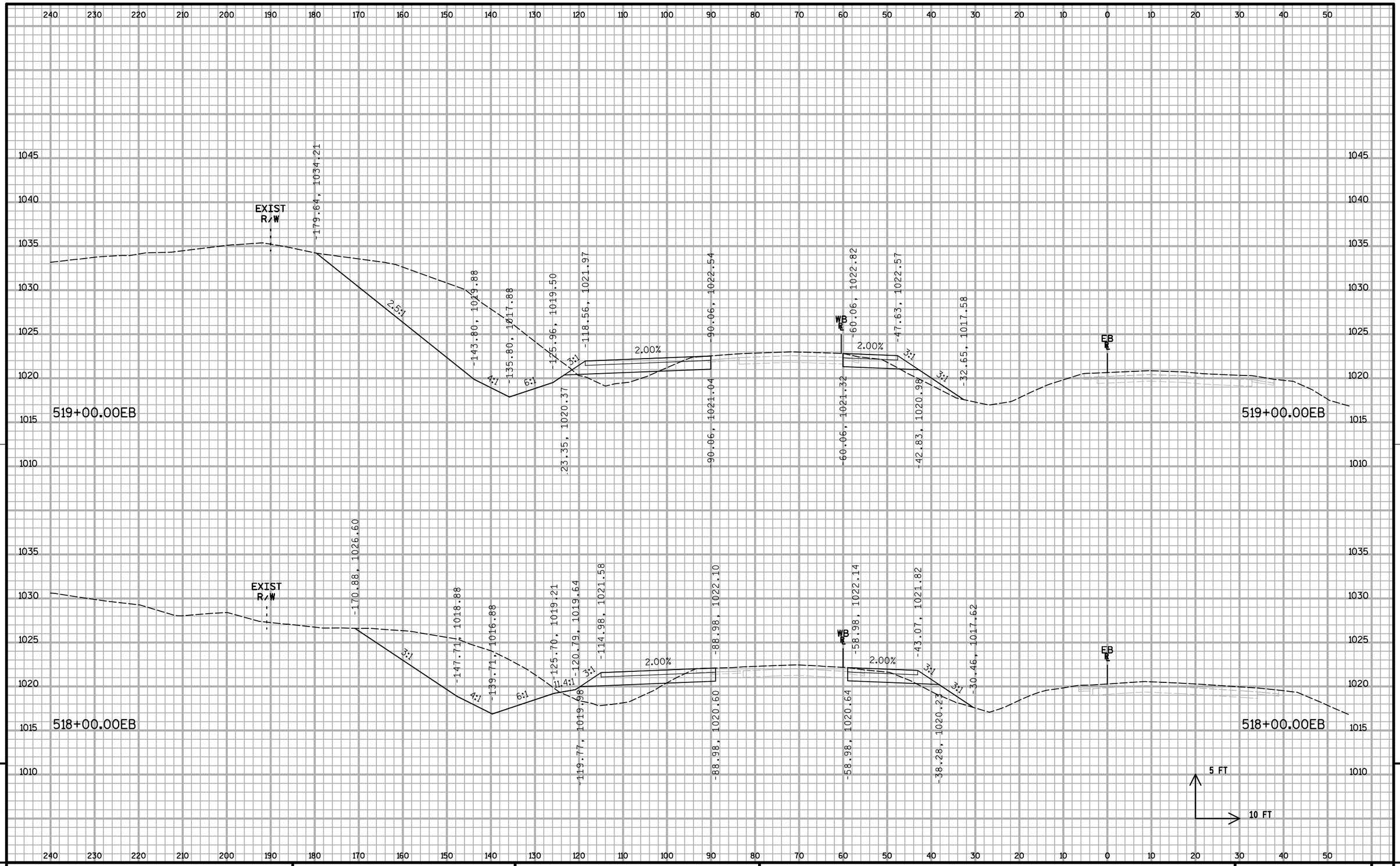


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

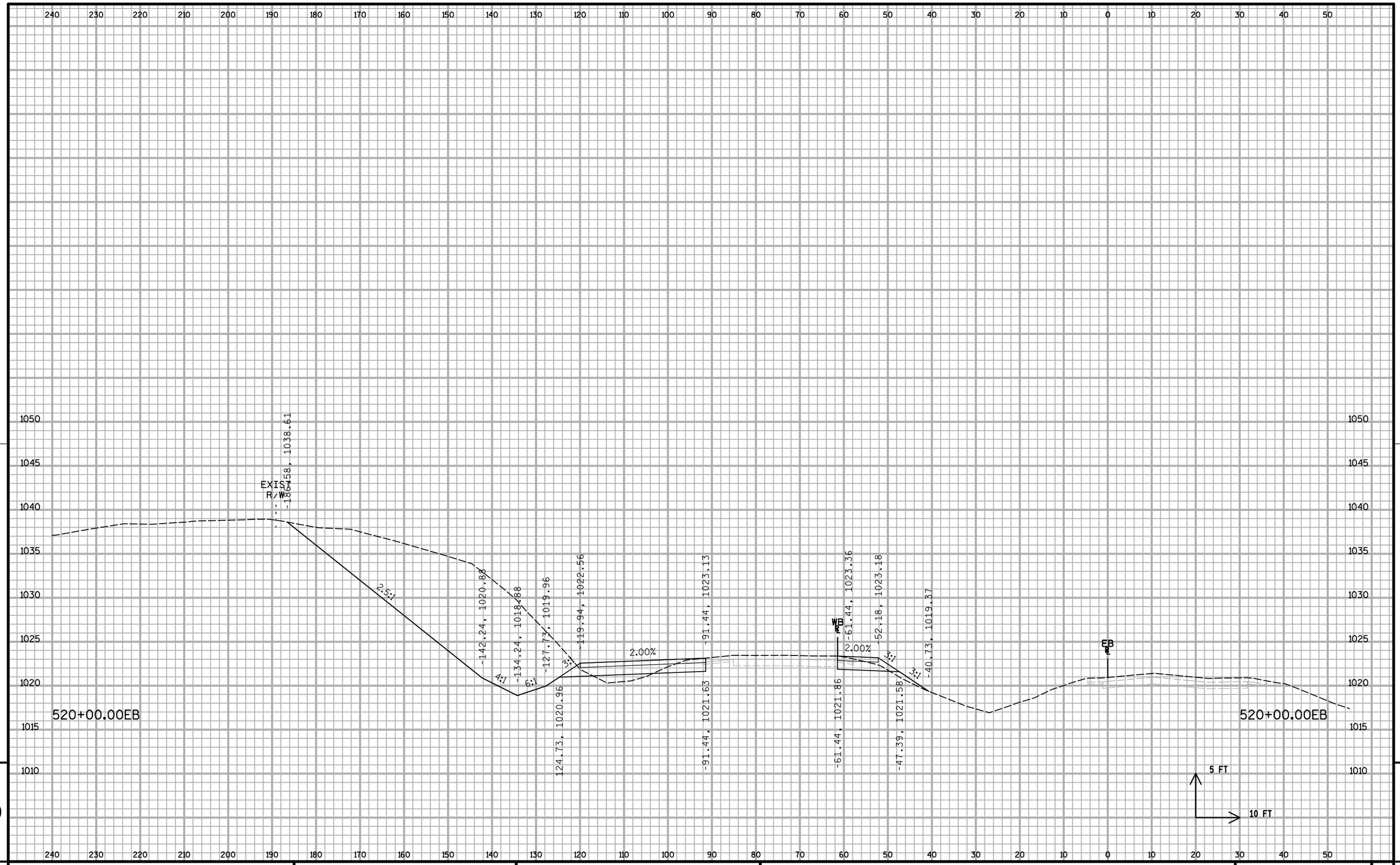
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WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



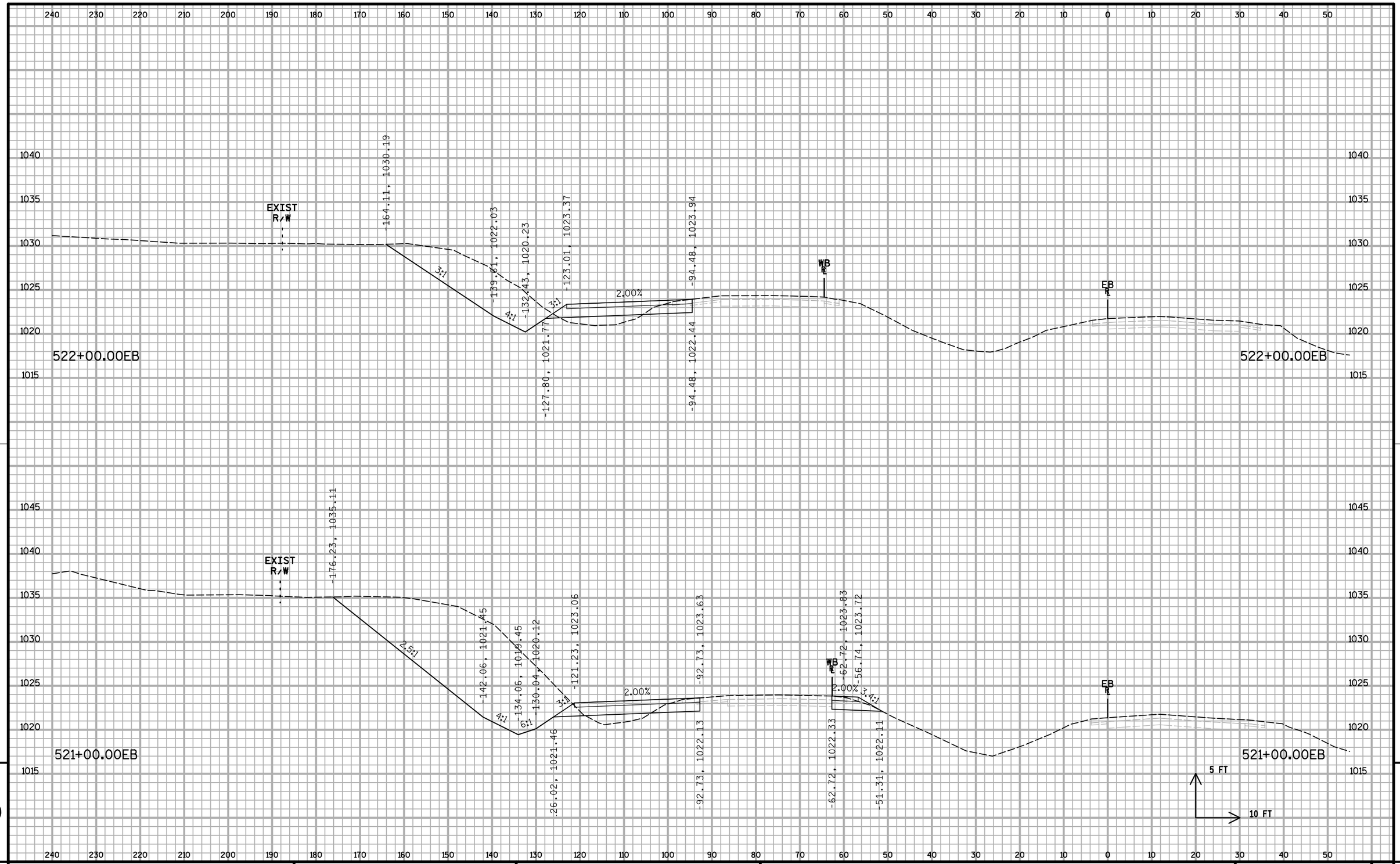
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

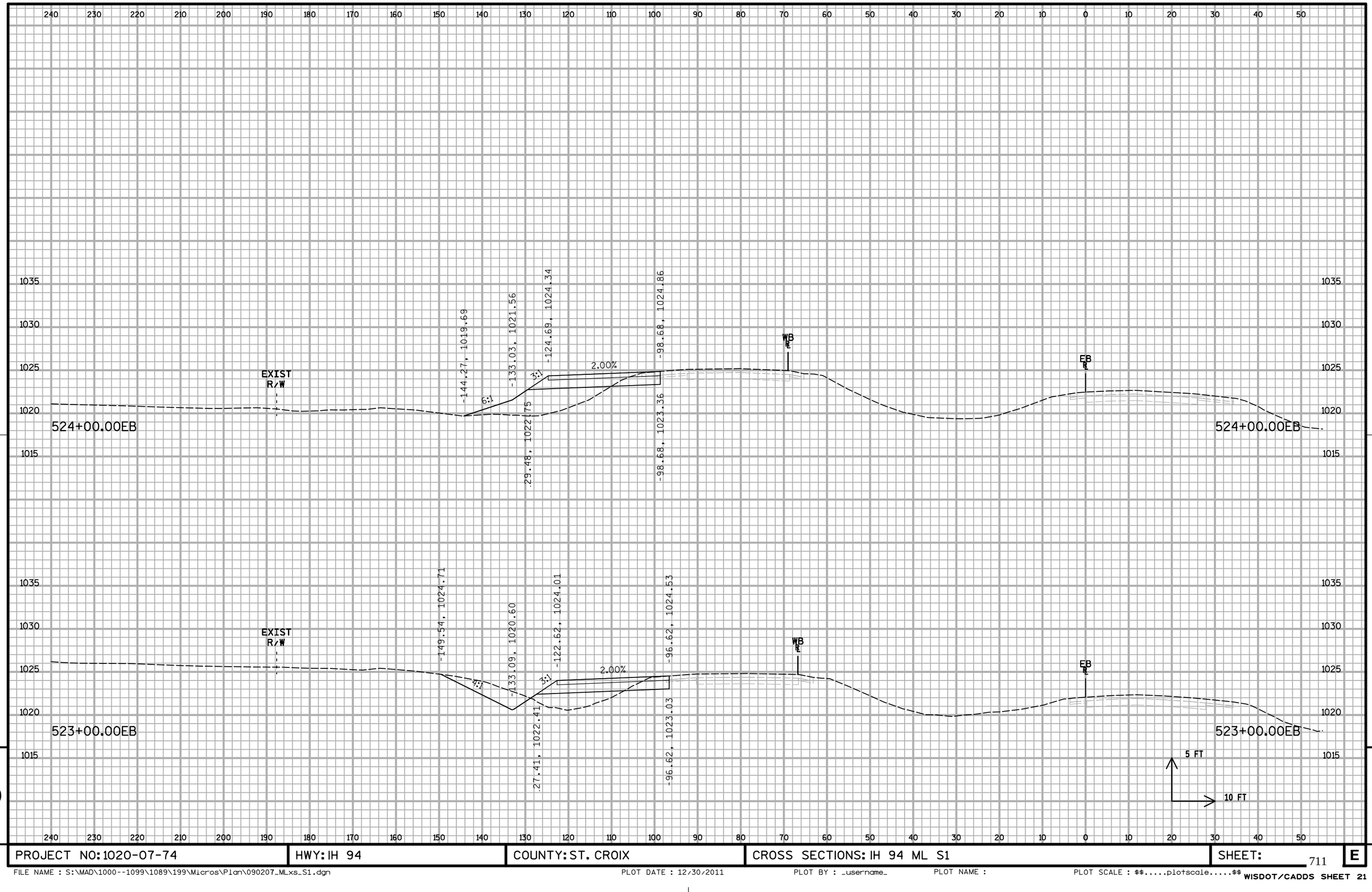


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

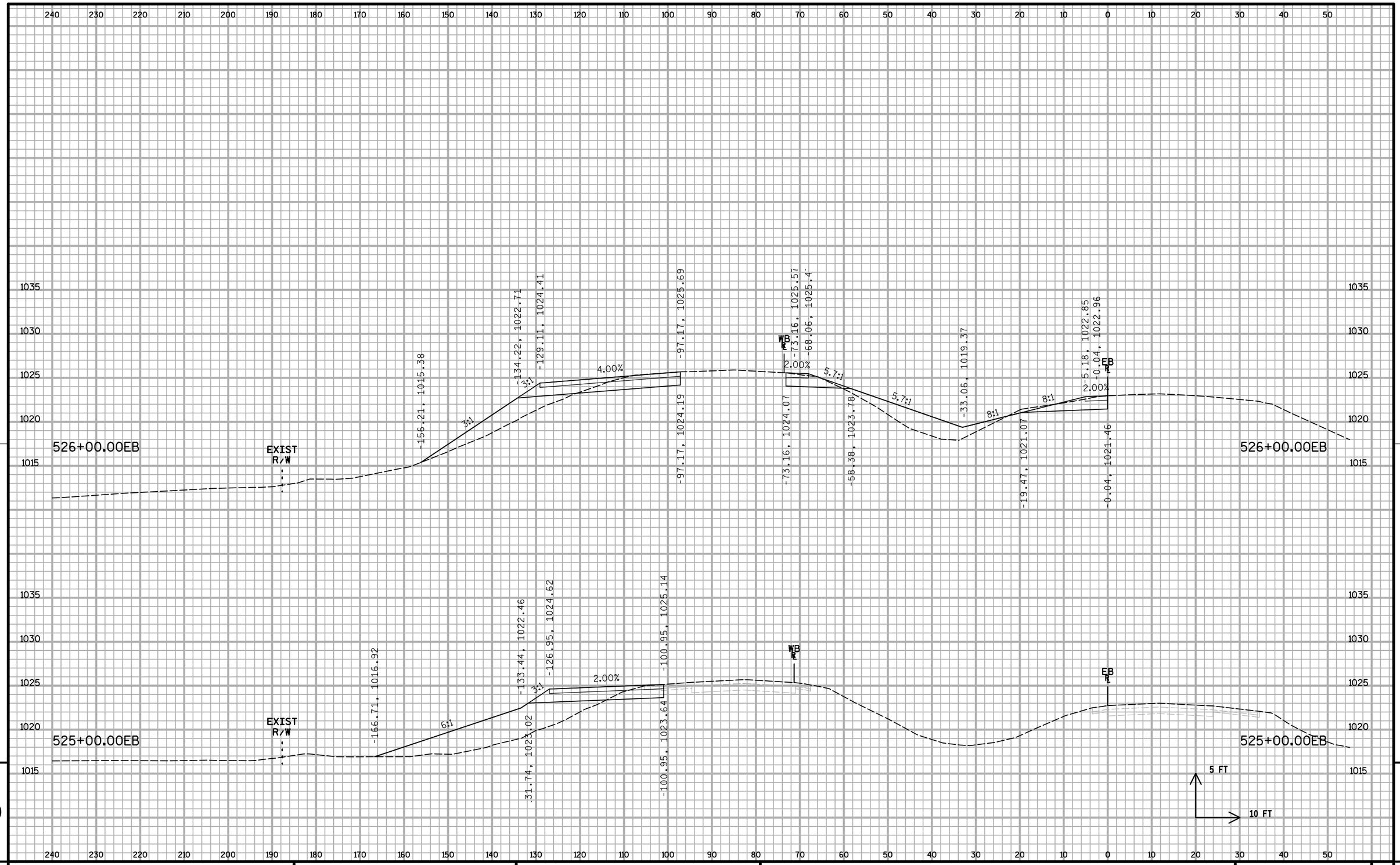
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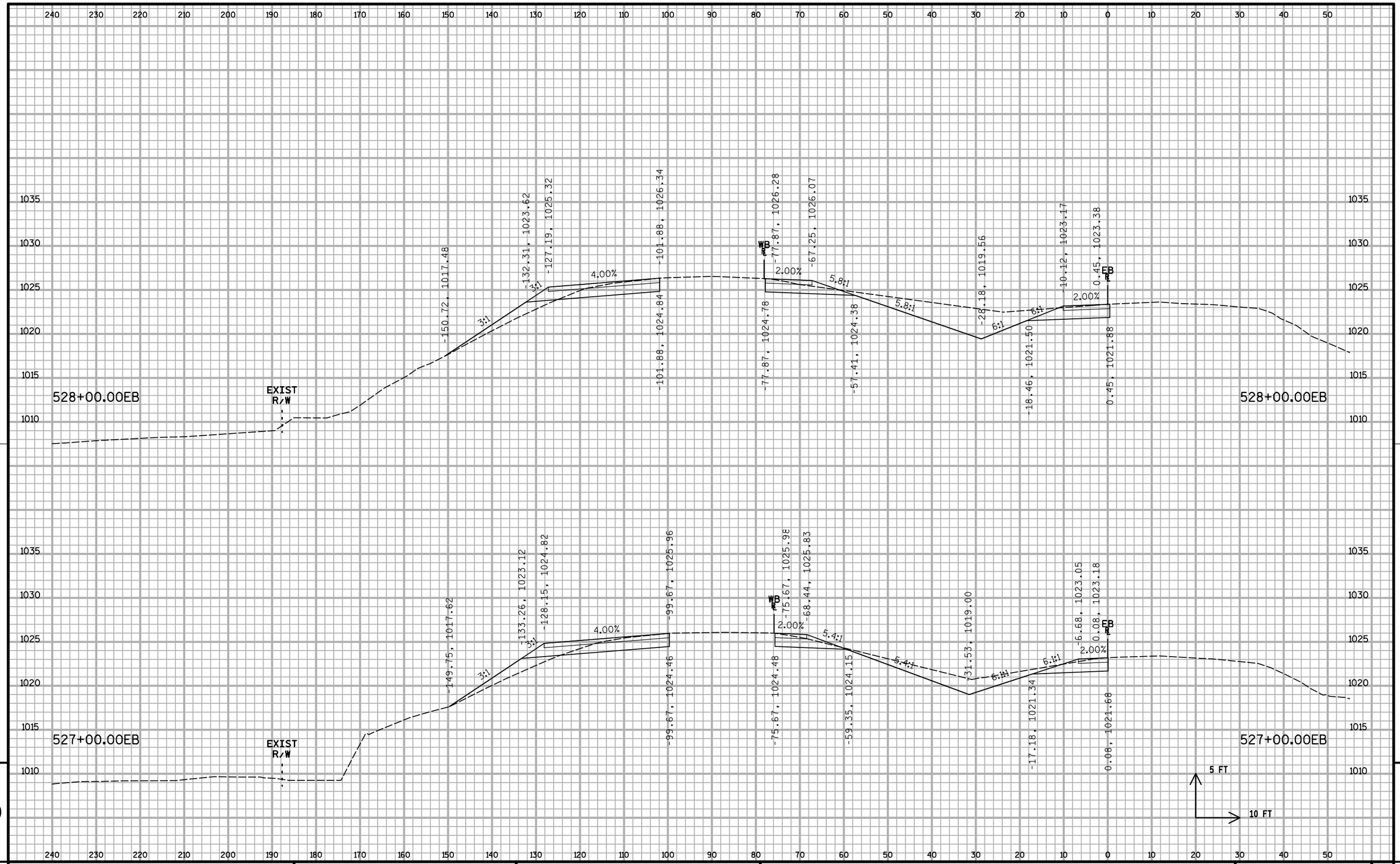
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

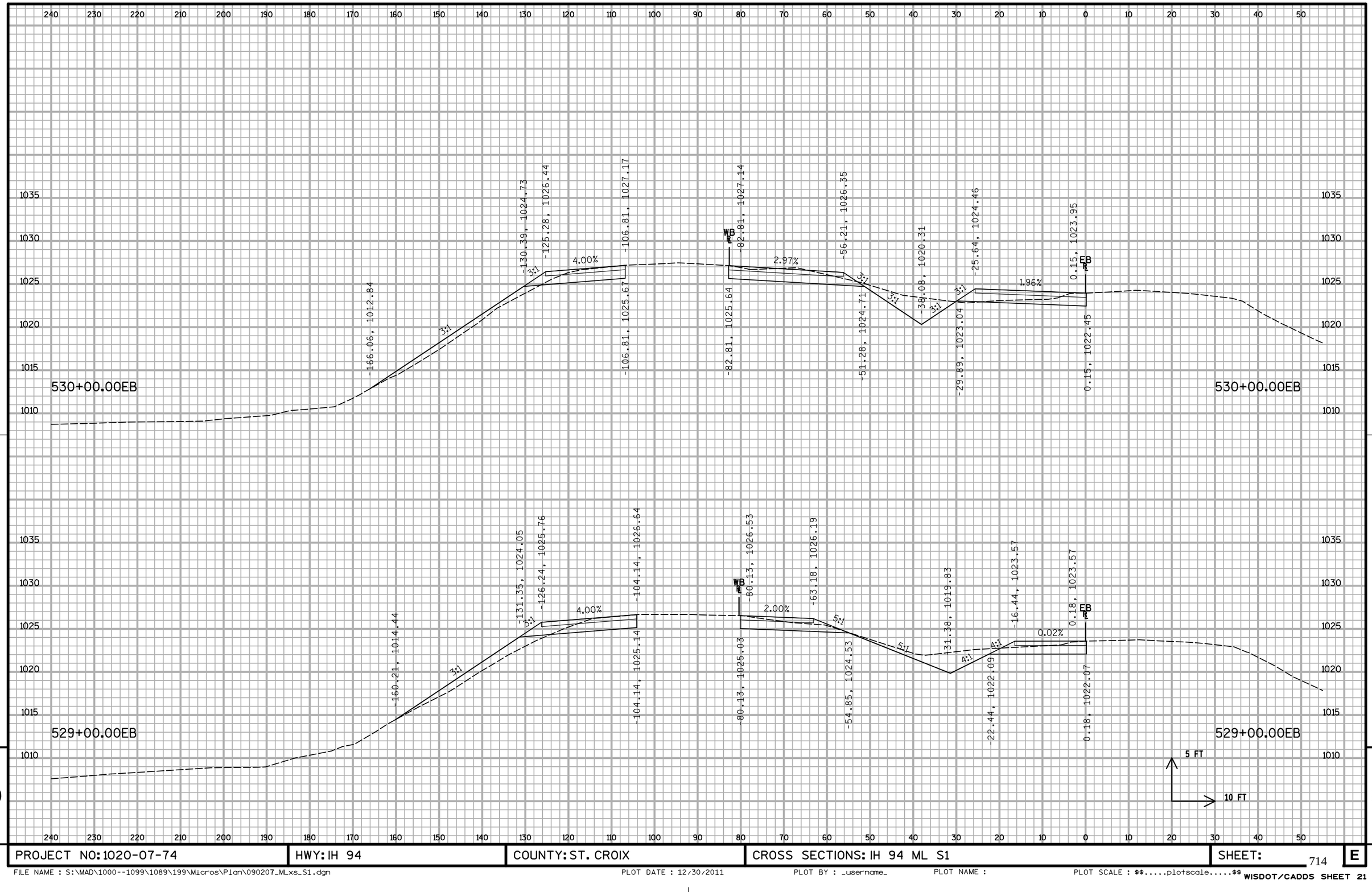


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

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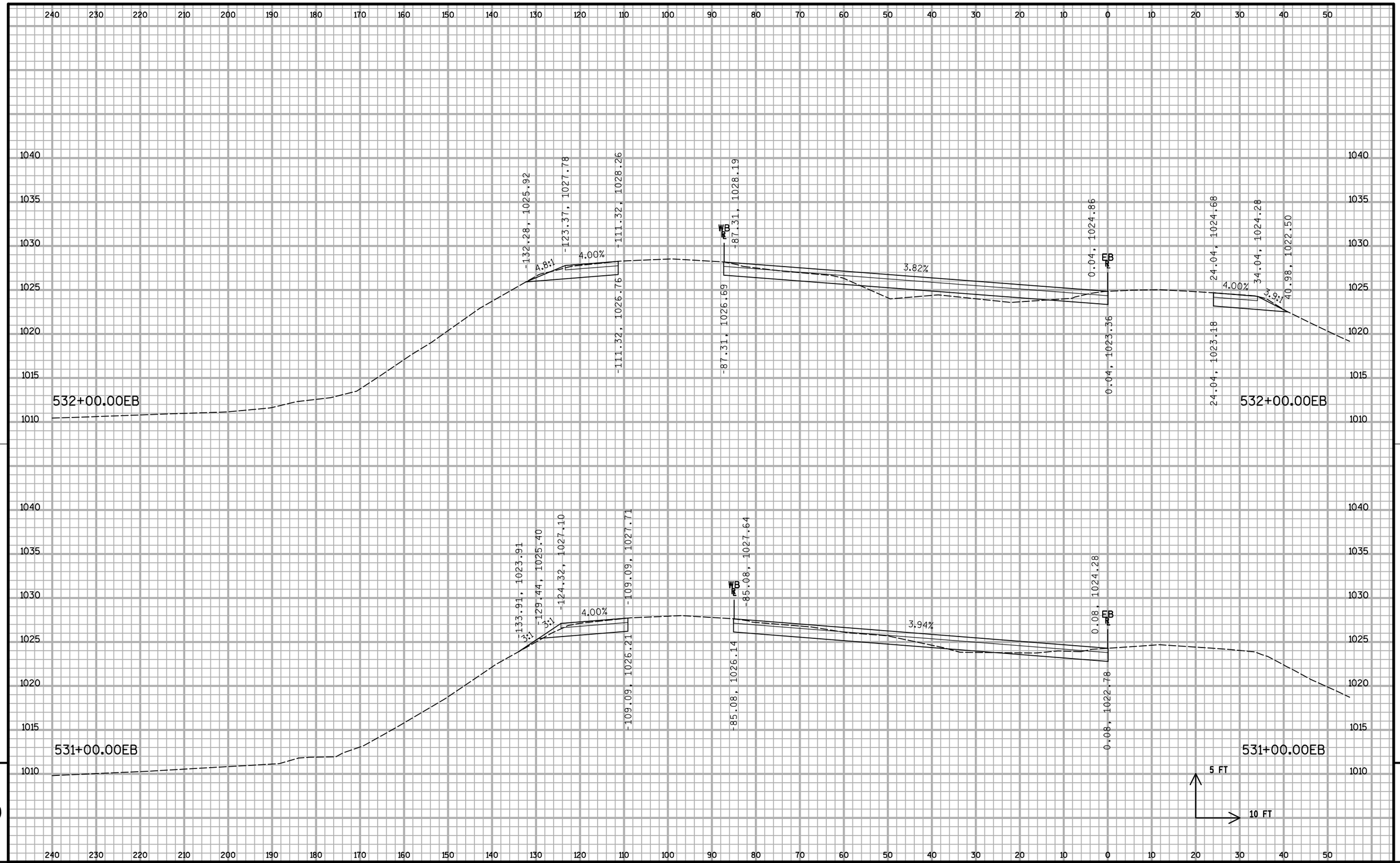


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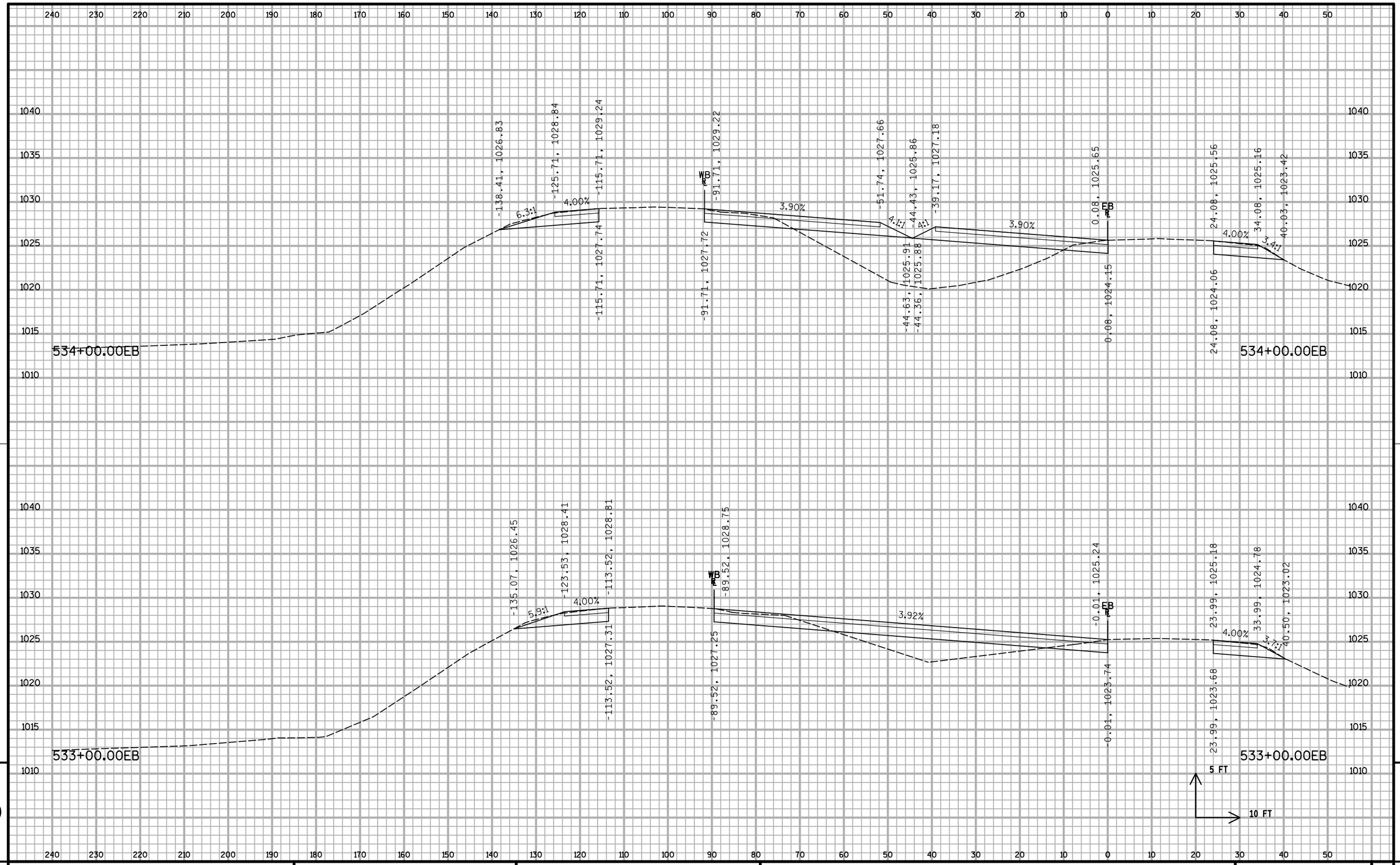
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

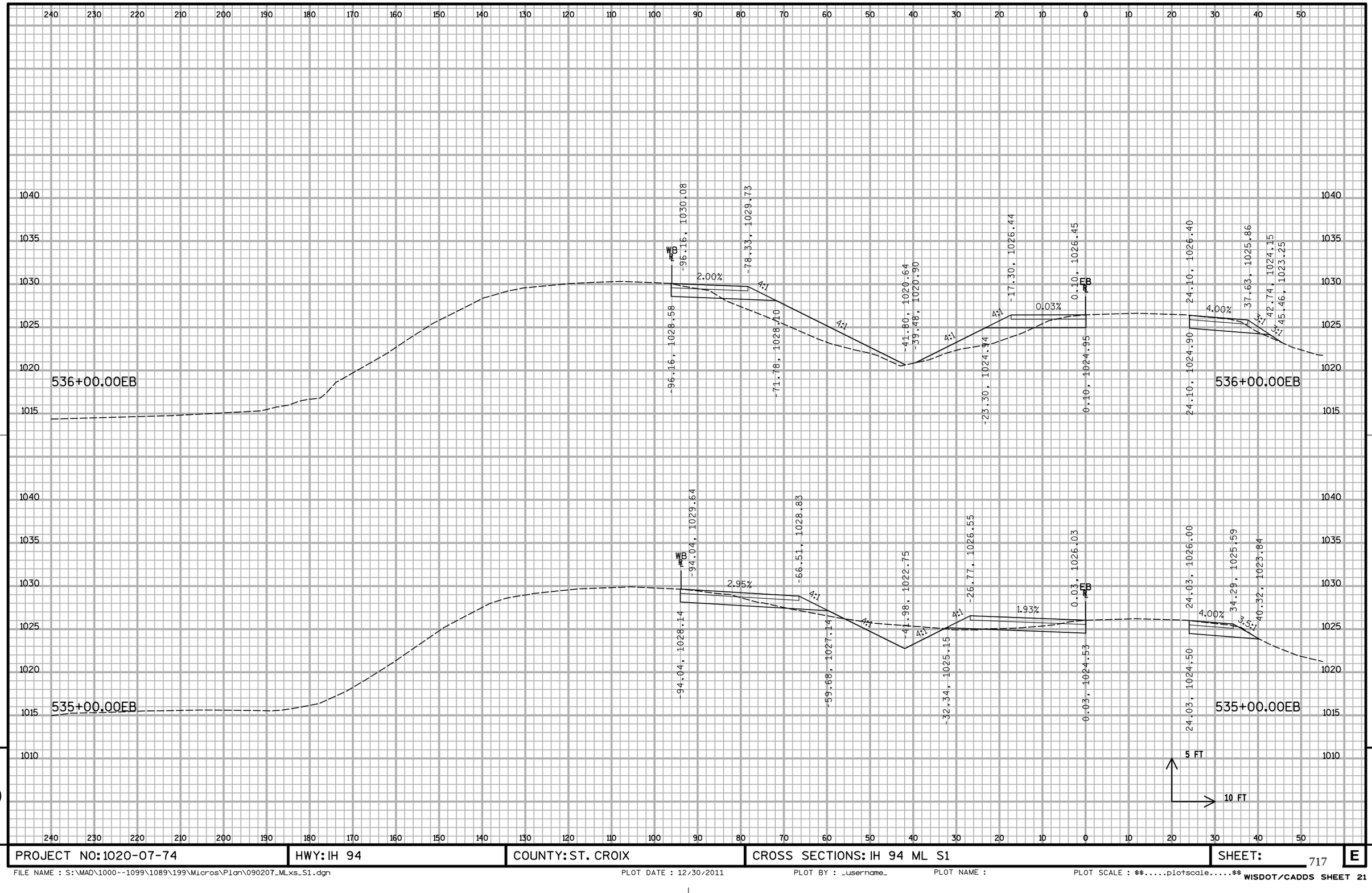


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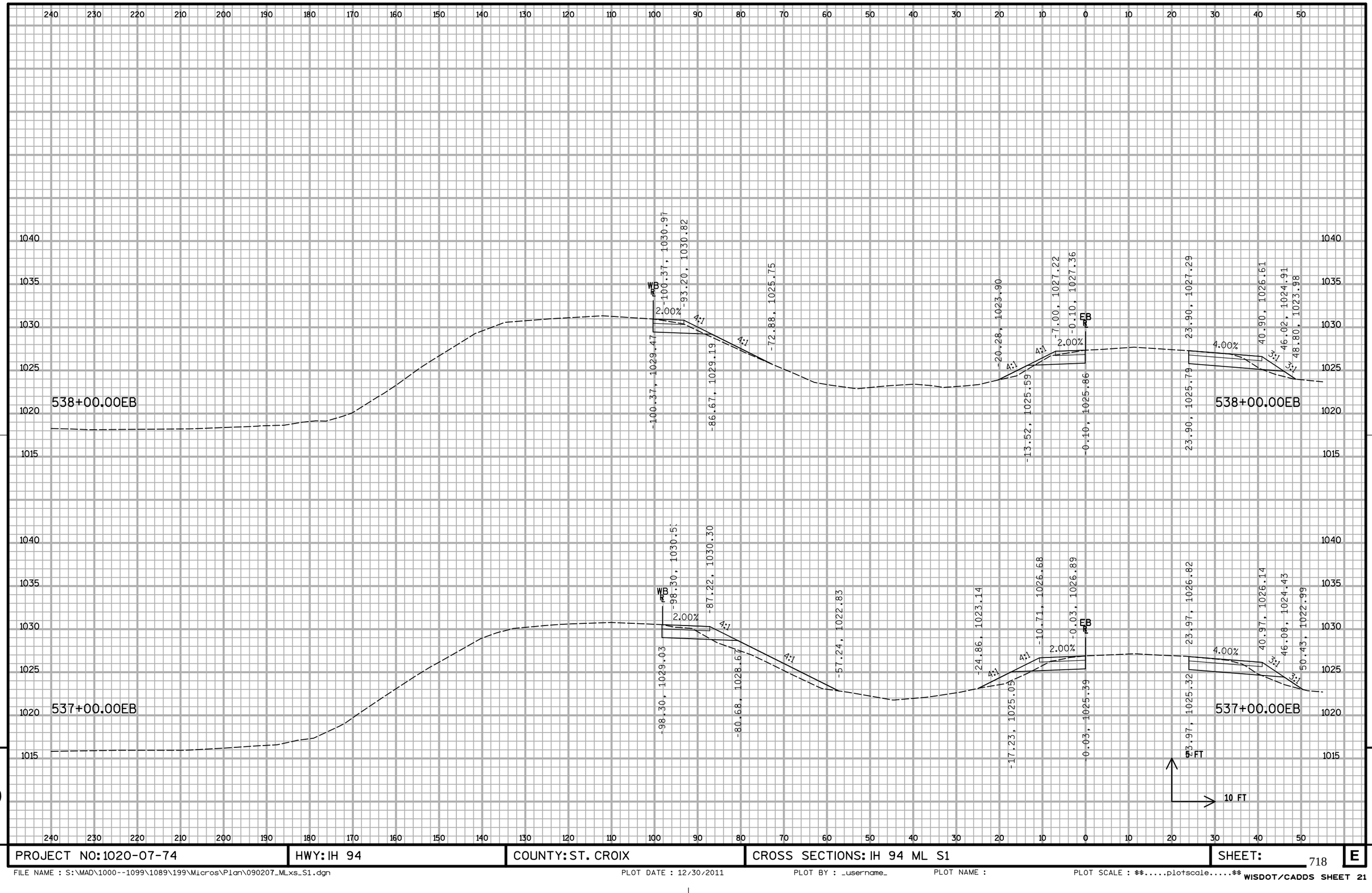
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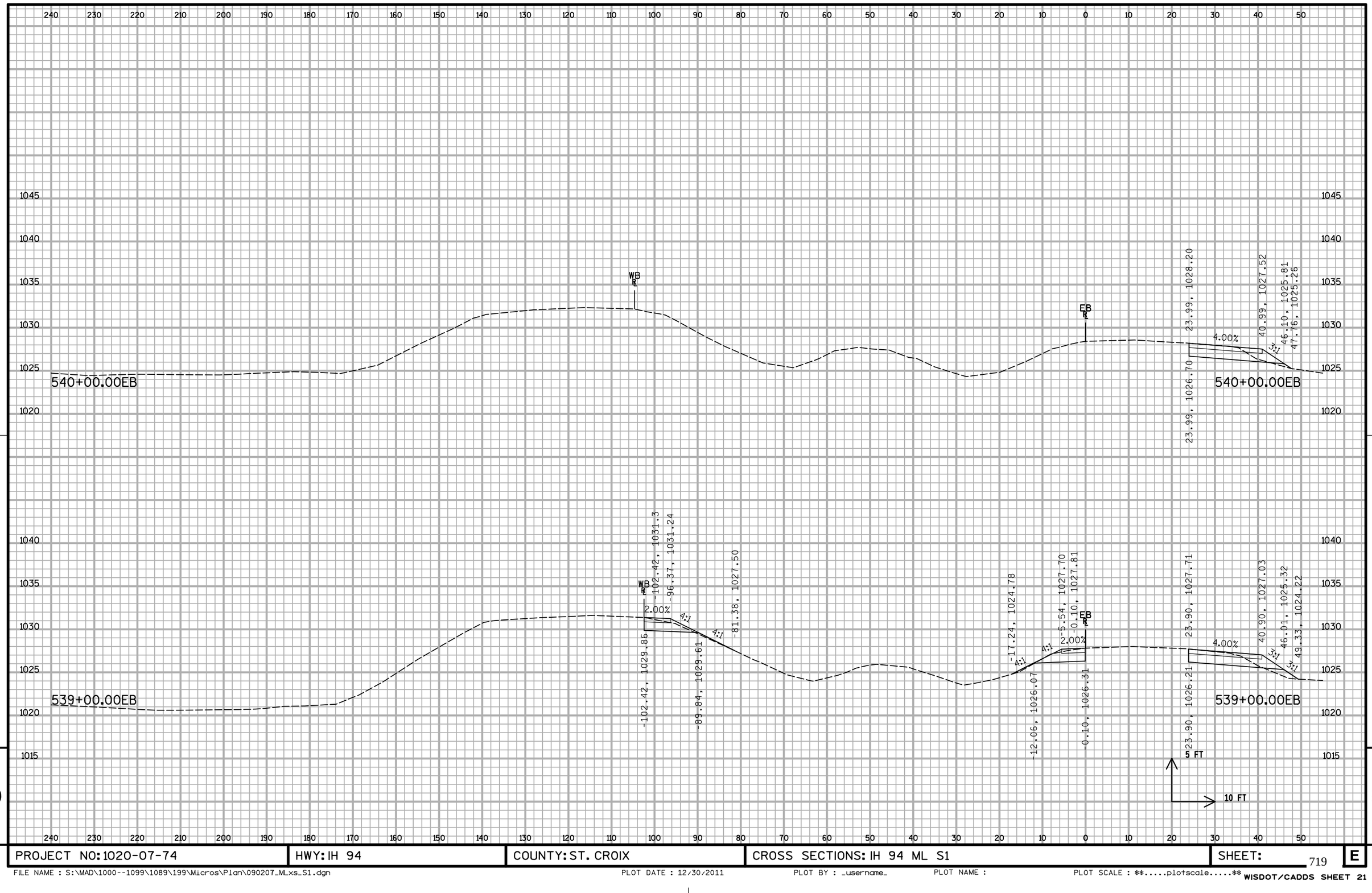
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

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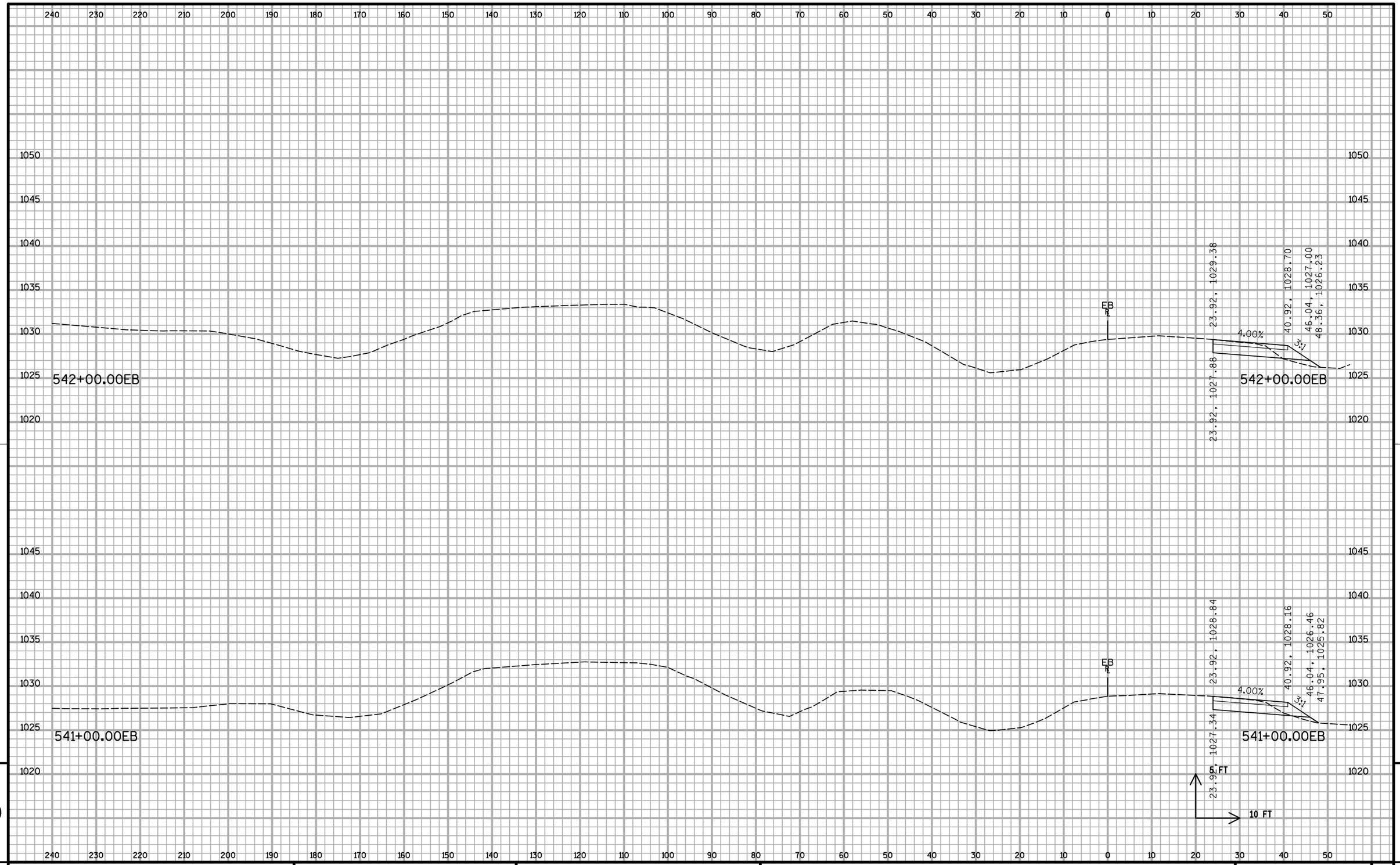


PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

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WISDOT/CADDS SHEET 21

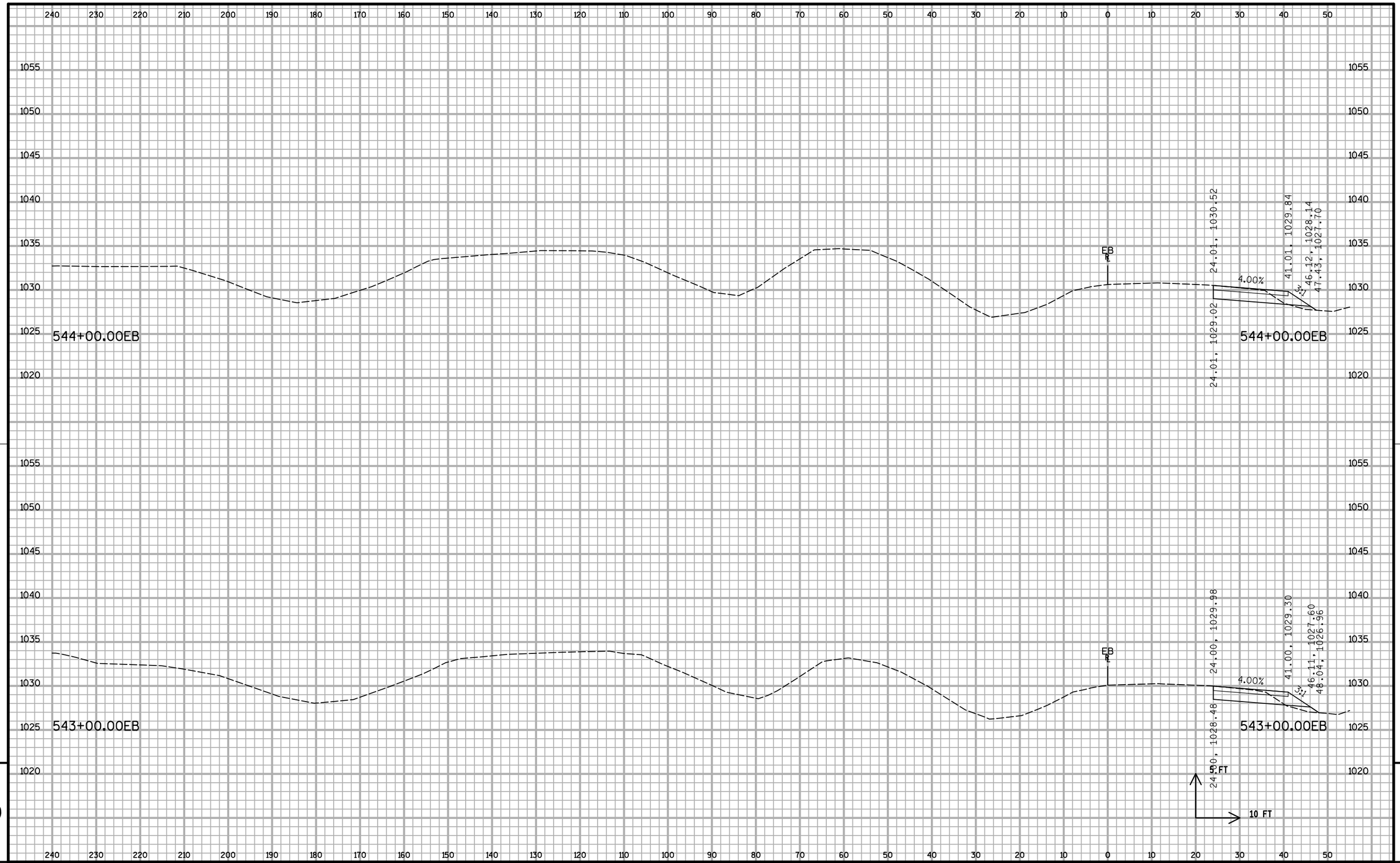


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

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240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50

1060
1055
1050
1045
1040
1035
1030
1025
1020

545+00.00EB

EB

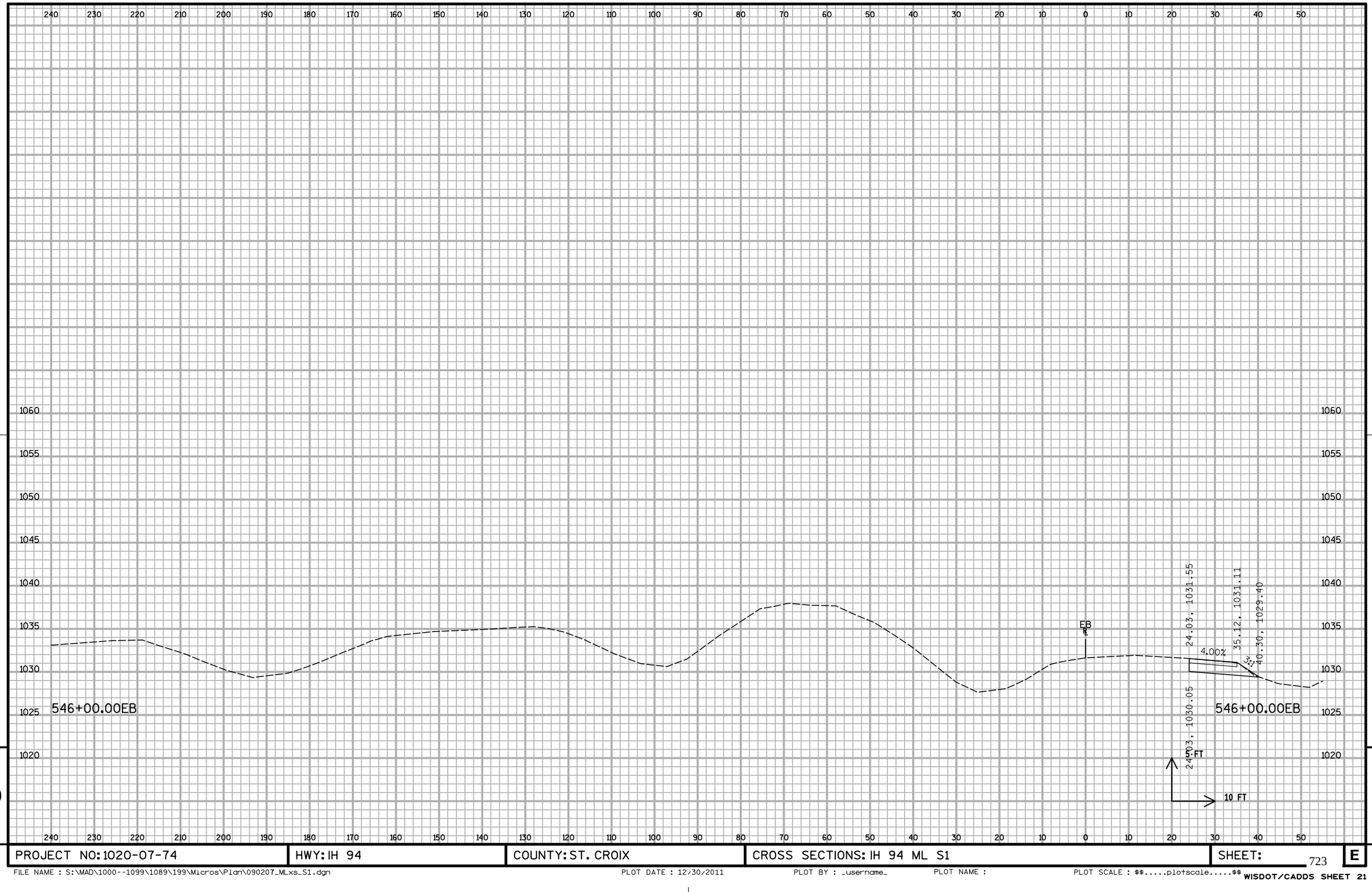
24.01, 1031.02
39.85, 1030.39
44.97, 1028.68
46.02, 1028.33
4.00%
24.01, 1029.52
5 FT
10 FT

545+00.00EB

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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

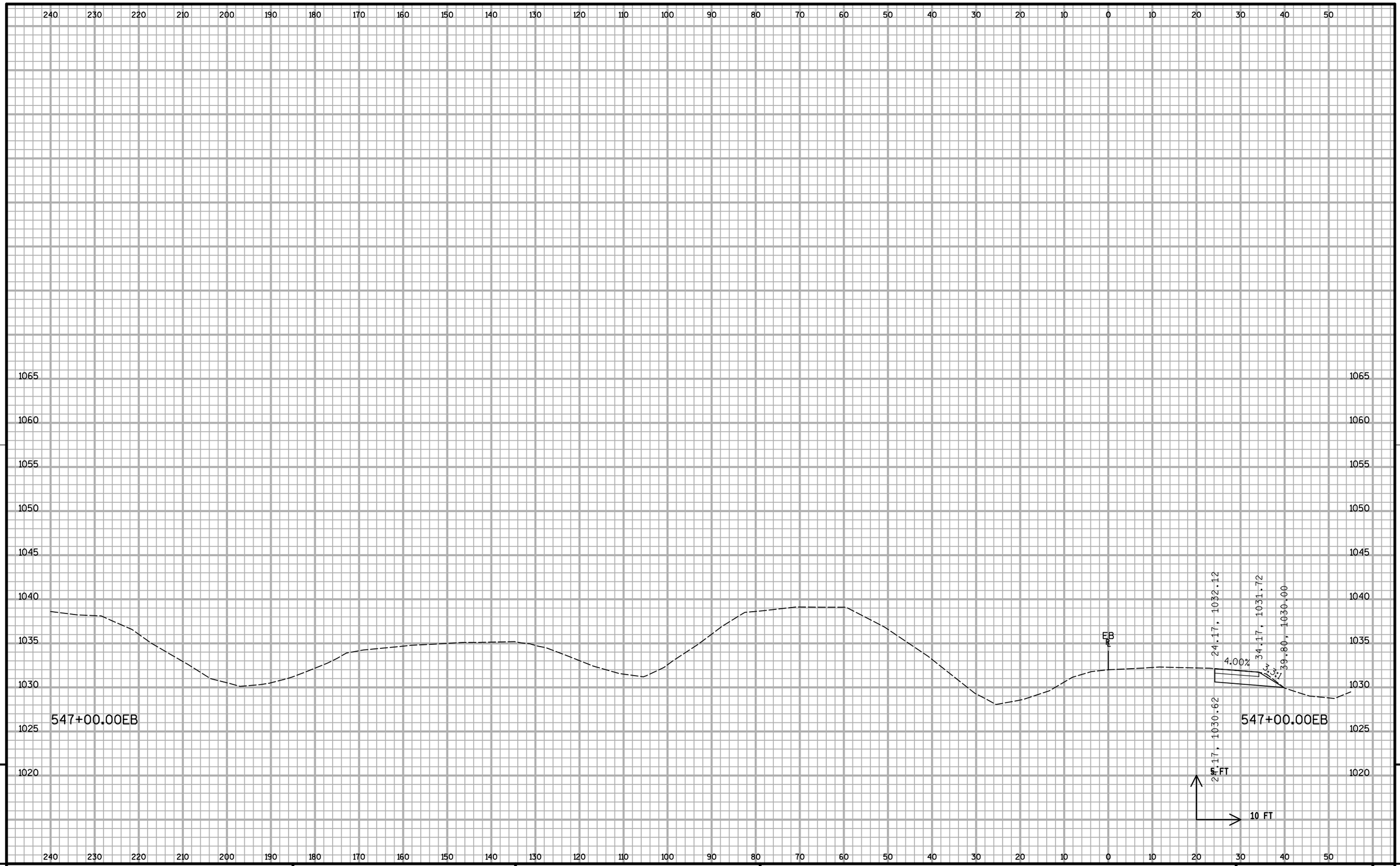


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50

1065
1060
1055
1050
1045
1040
1035
1030

548+00.00EB

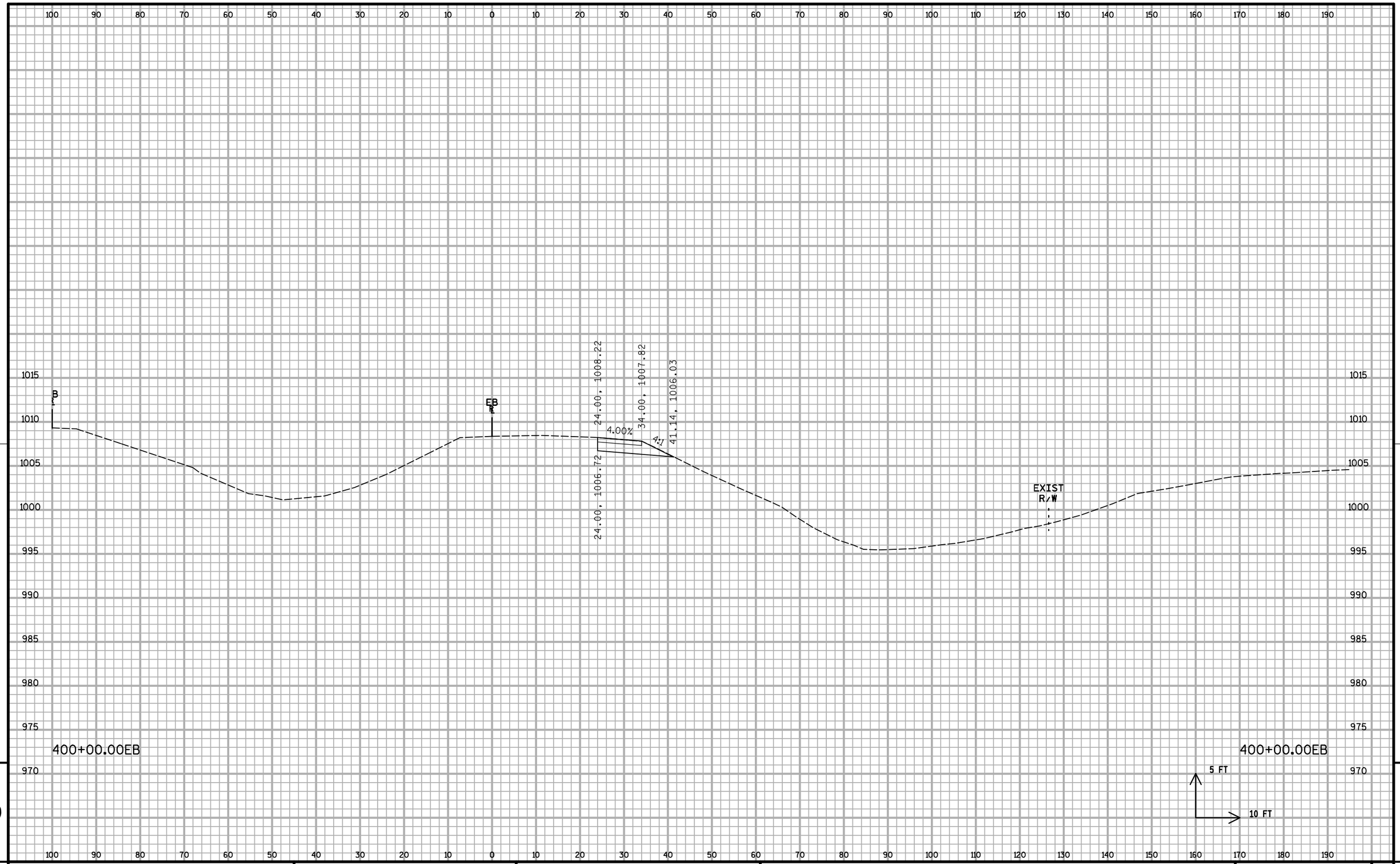
EB
℄

24.18, 1031.23
24.18, 1032.73
4.00%
4:6:1
34.18, 1032.33
42.67, 1030.49
5 FT
548+00.00EB
10 FT

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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S1	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090207_MLxs_S1.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

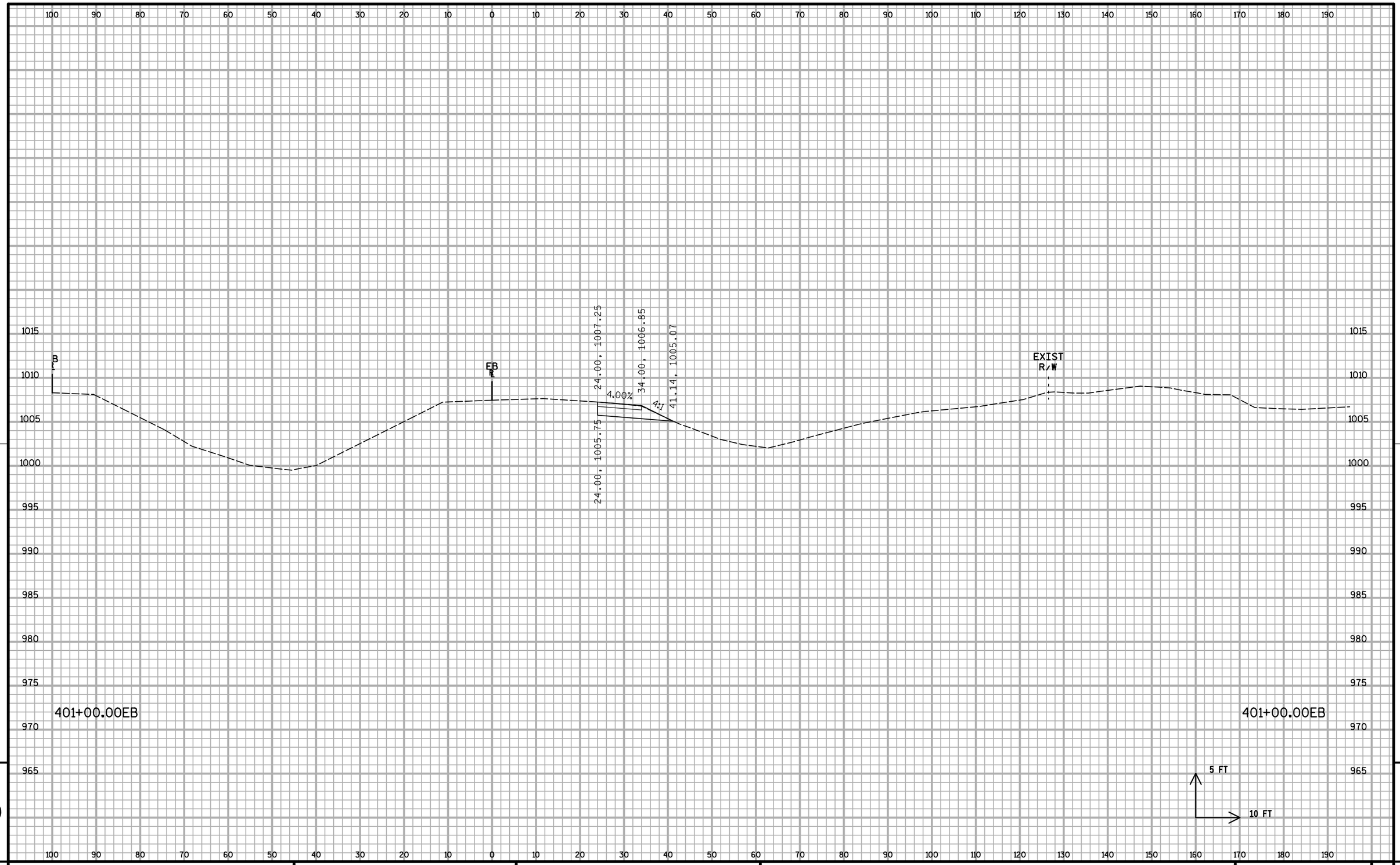


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET:	E

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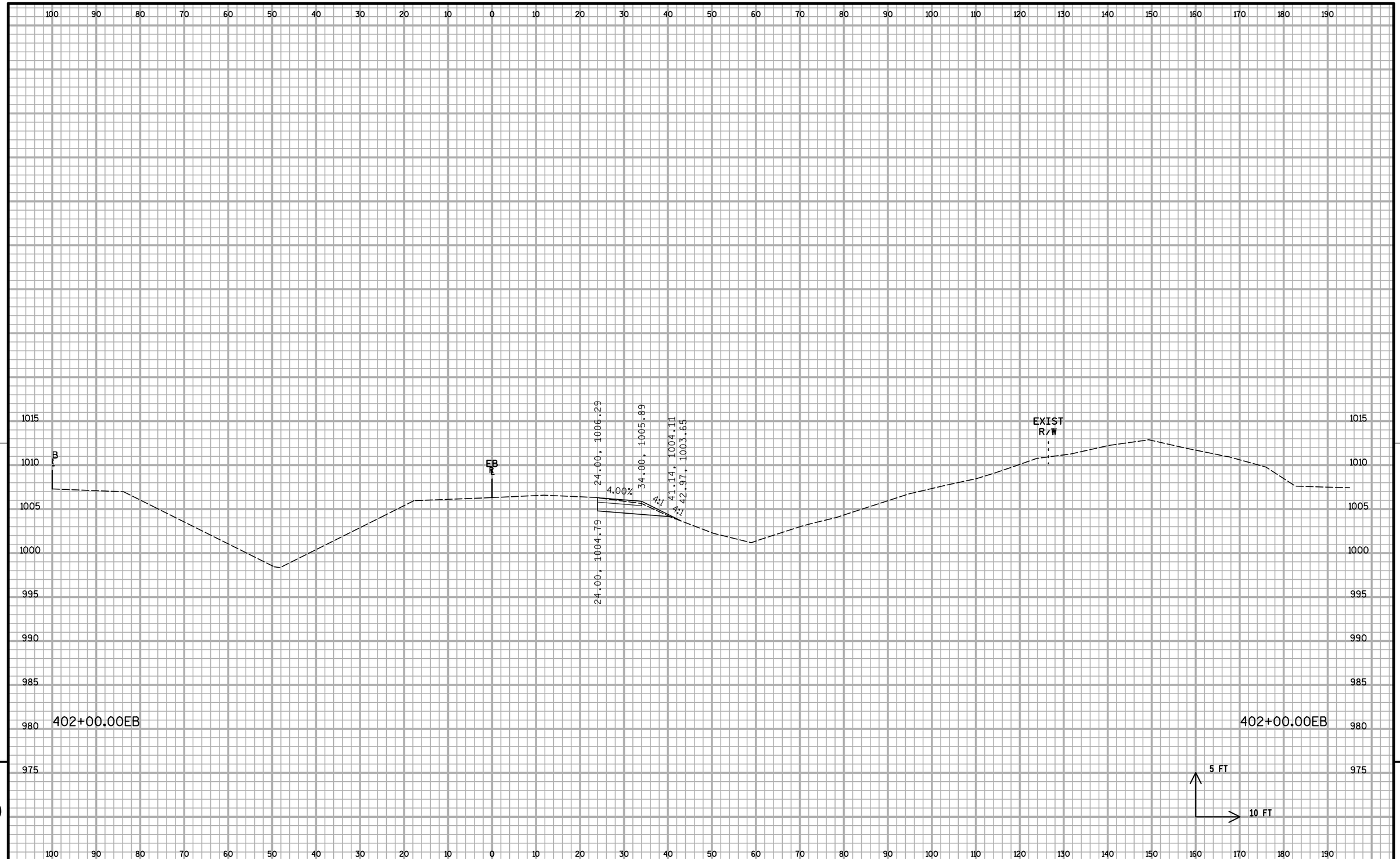


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET:	E

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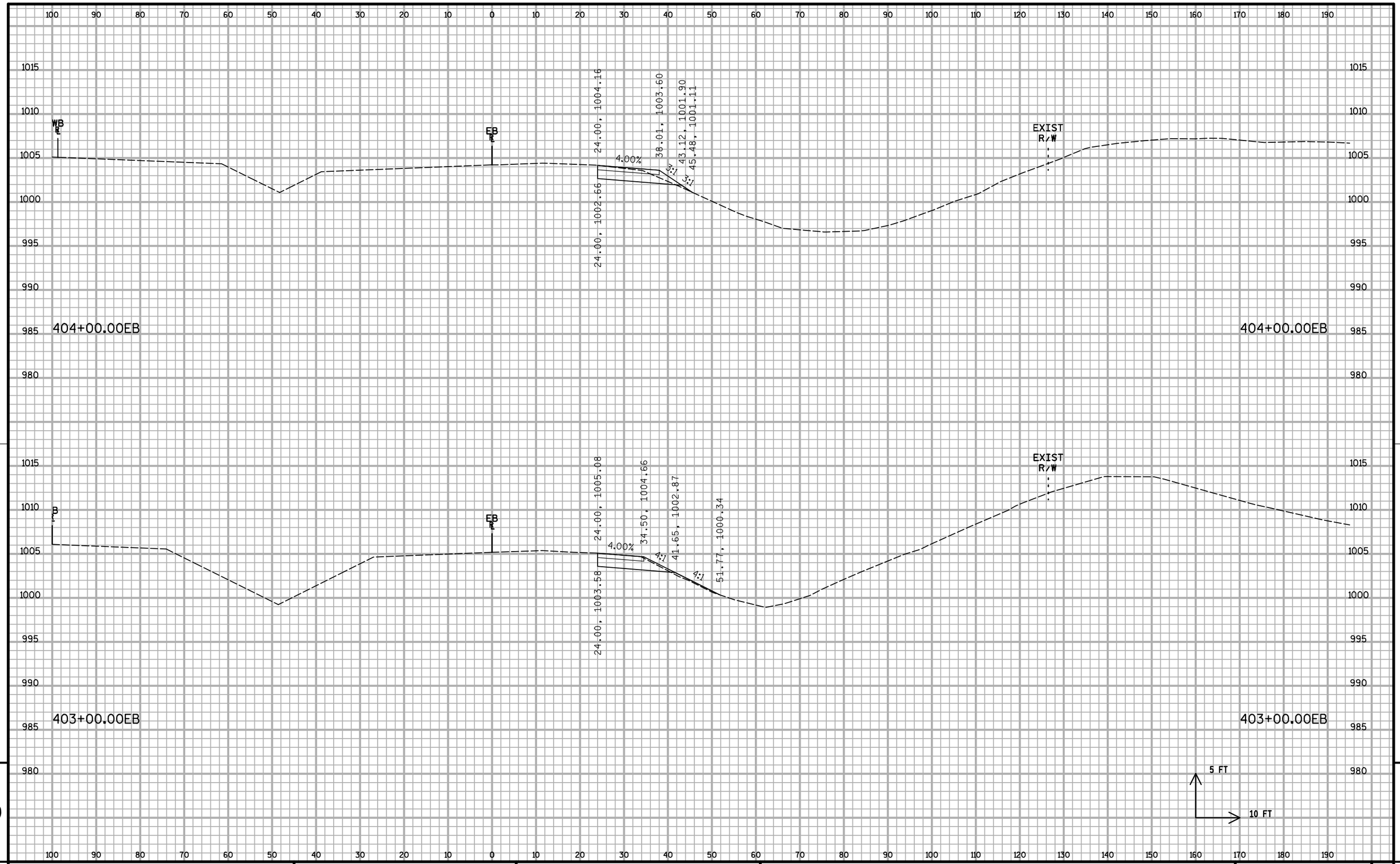


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET:	E

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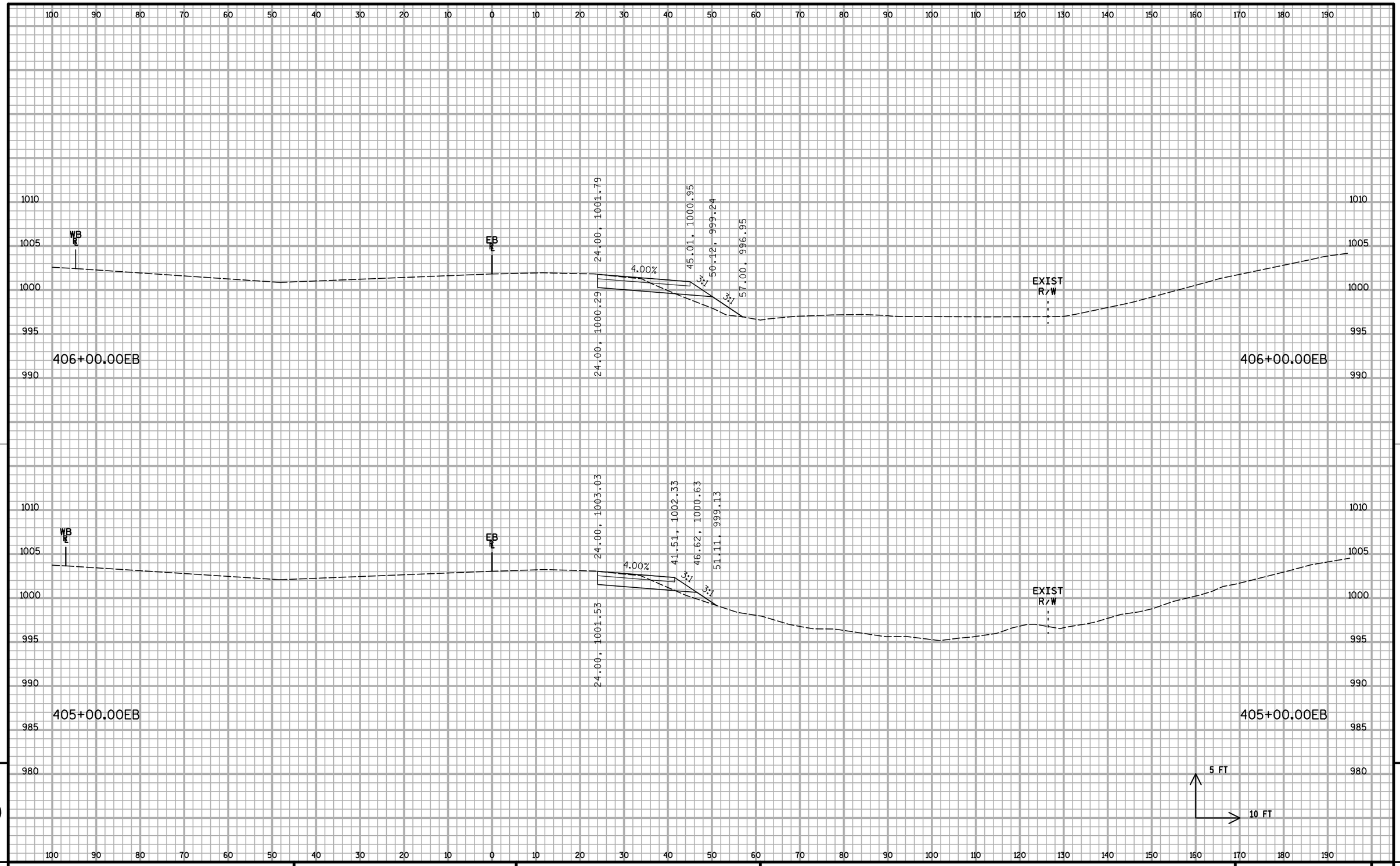


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET:	E

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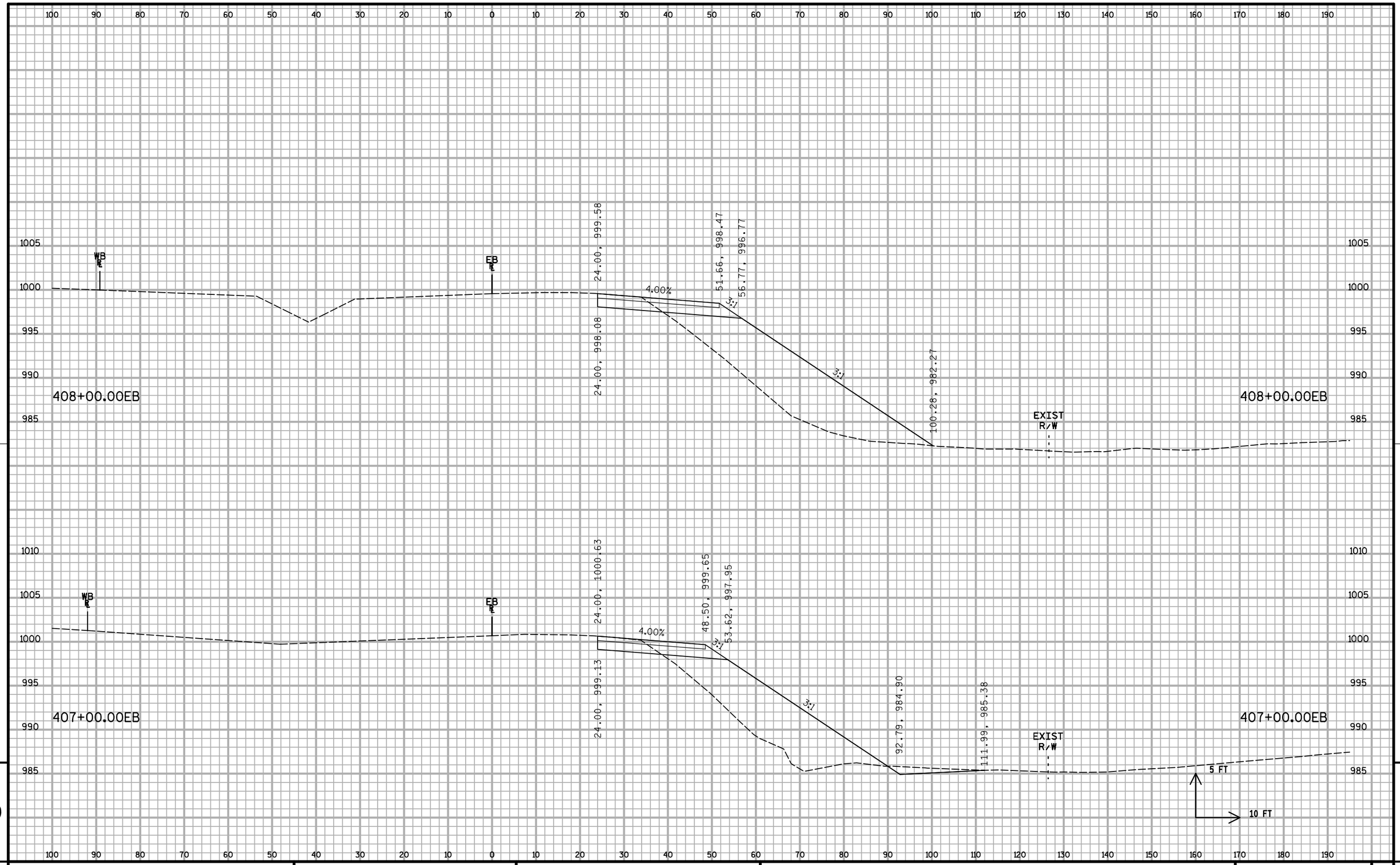


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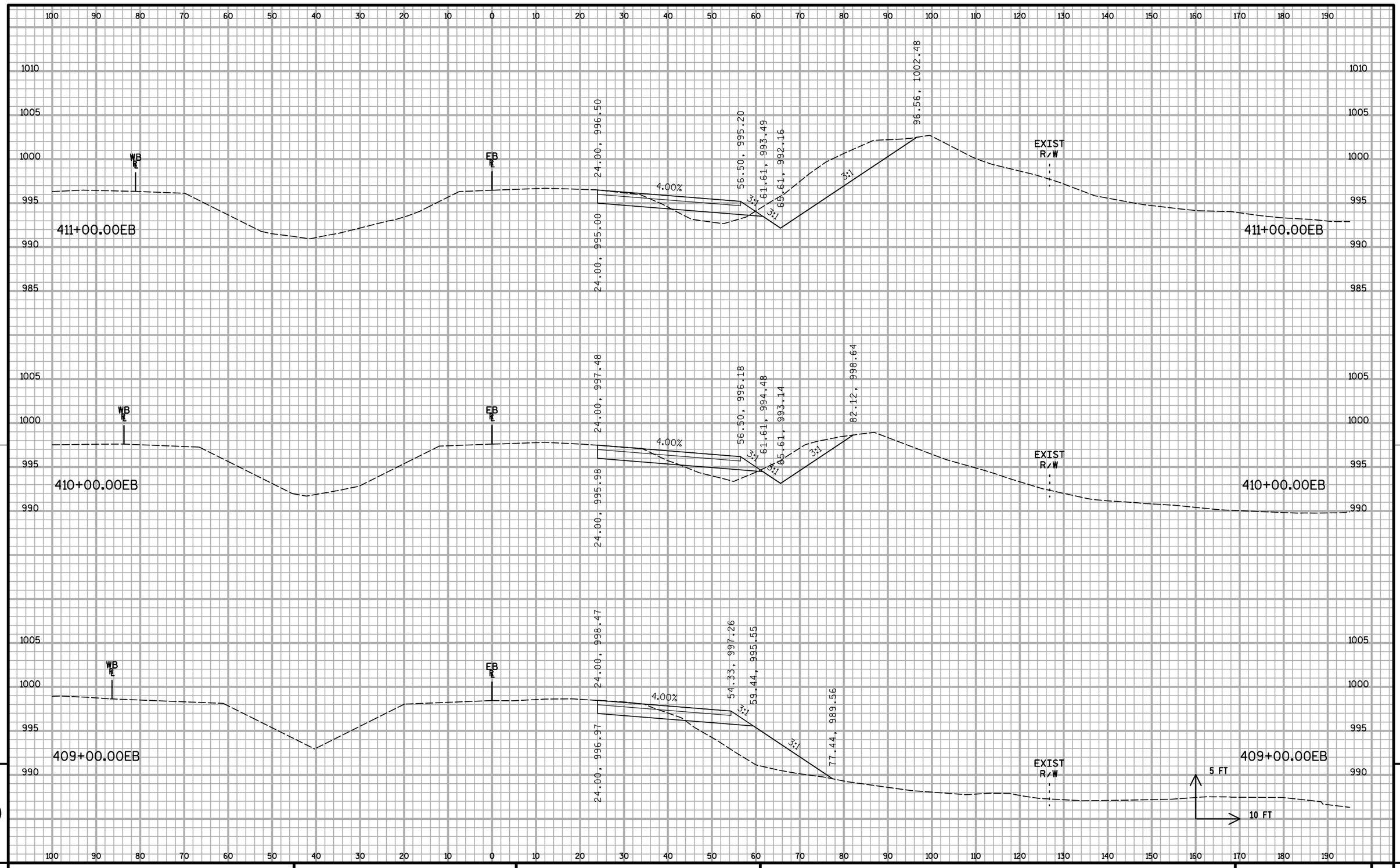
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET:	E

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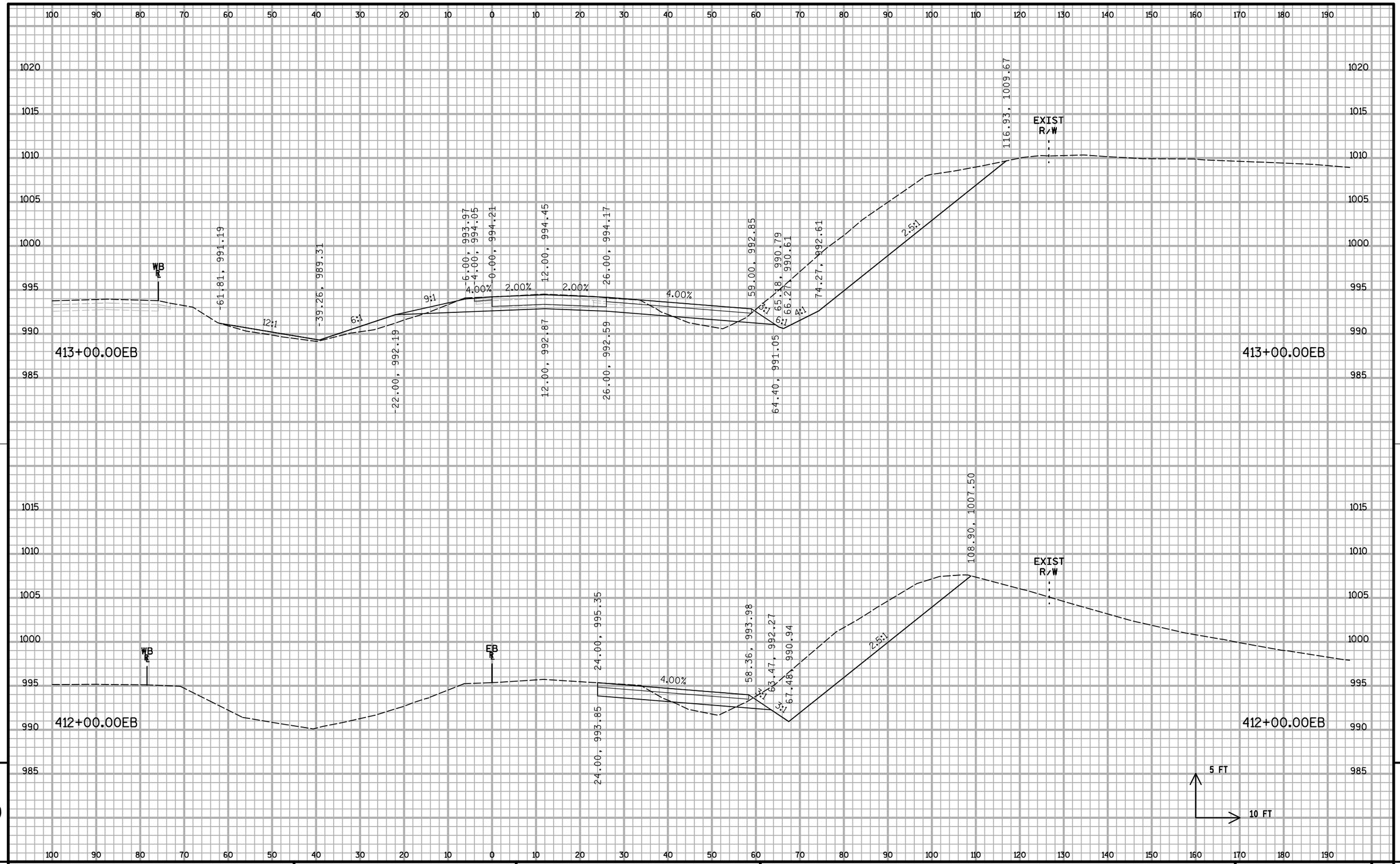


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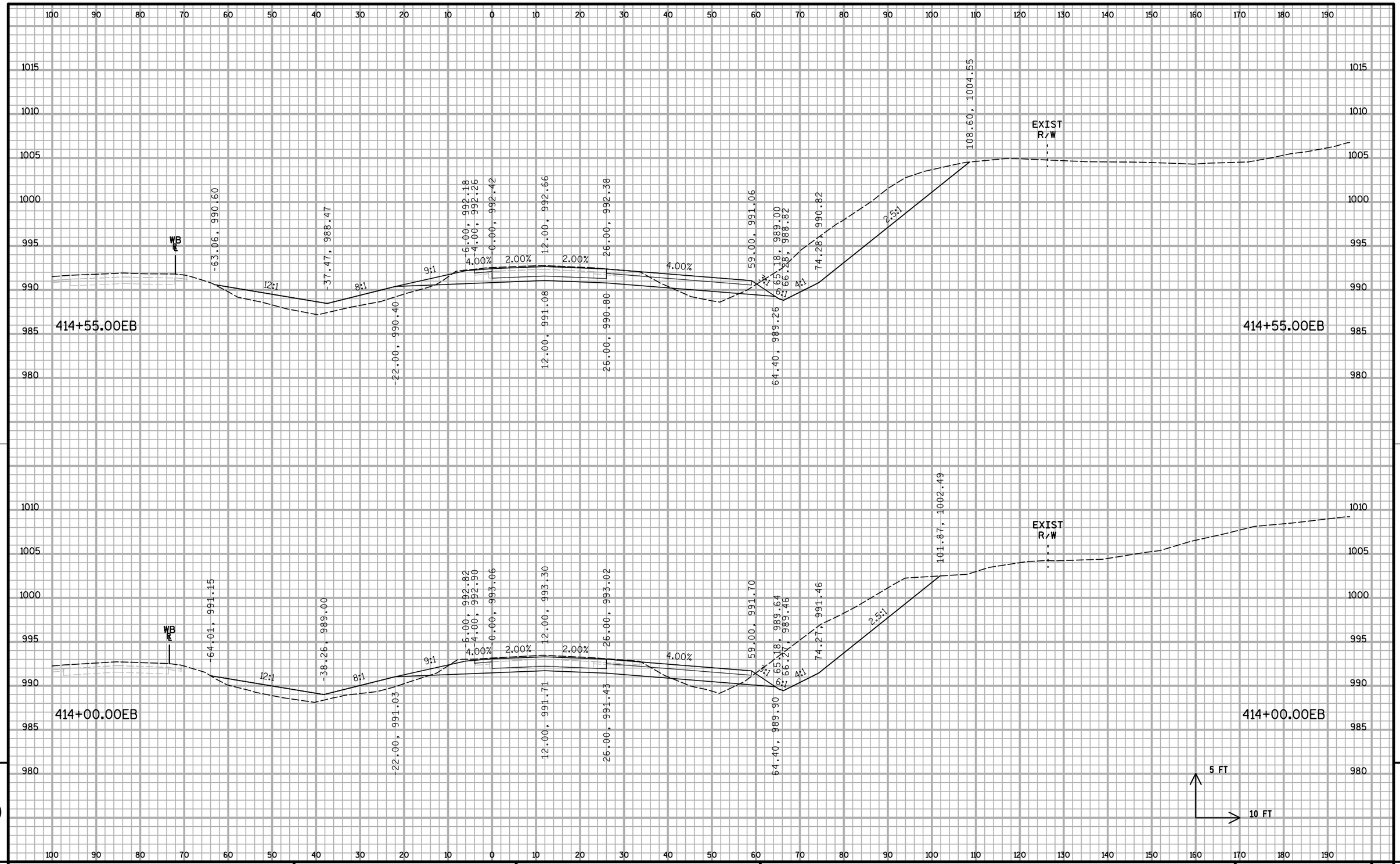
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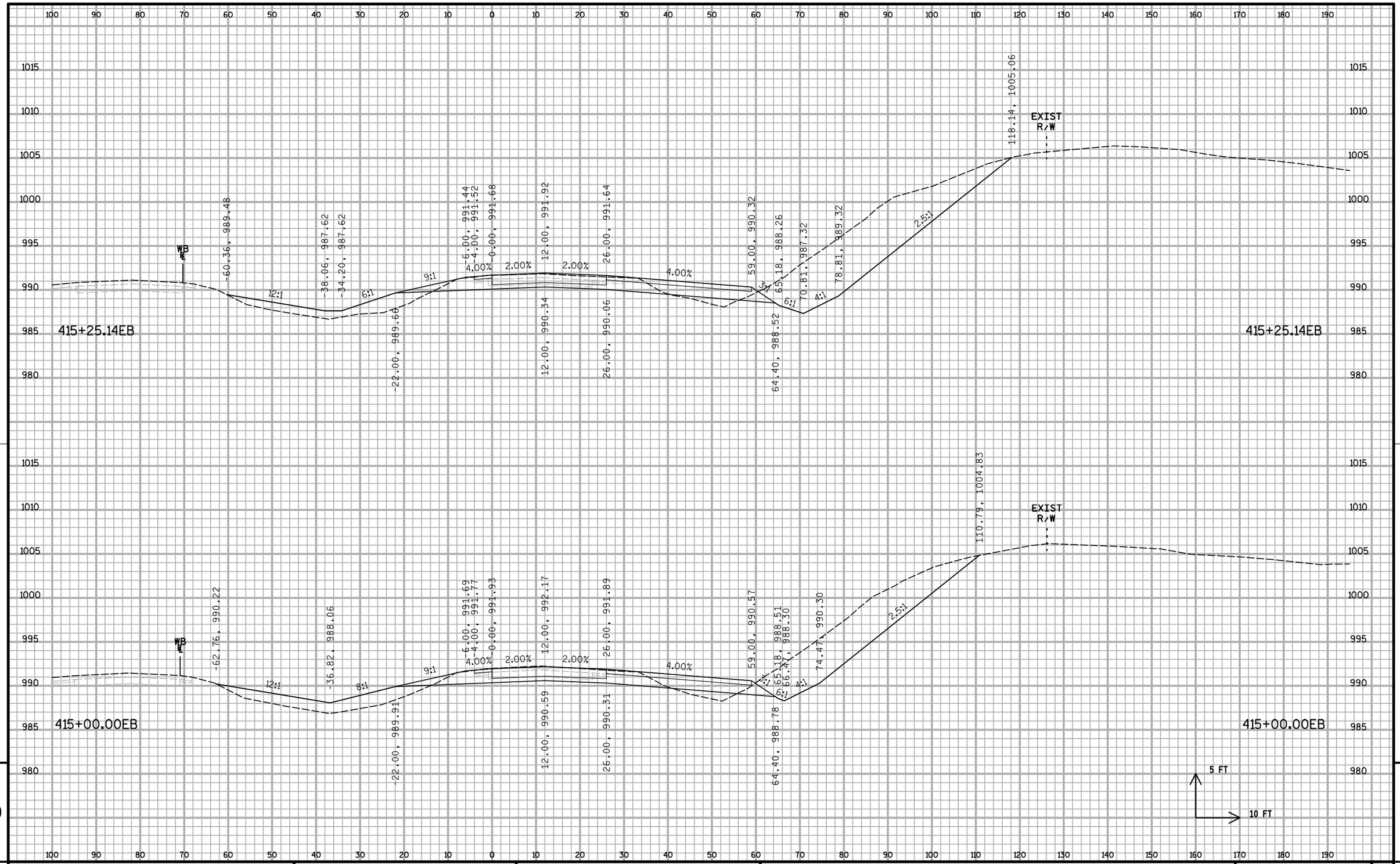
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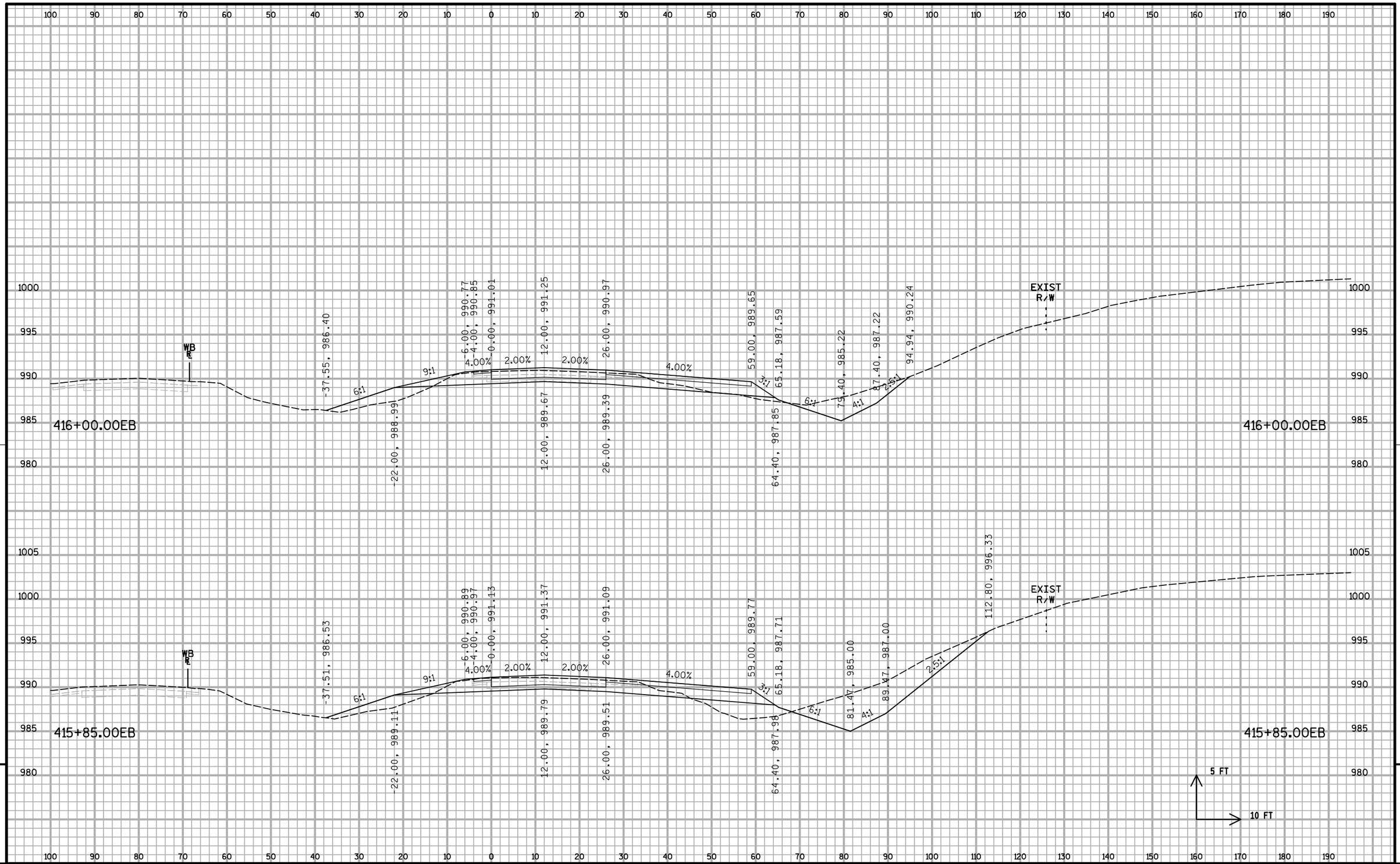
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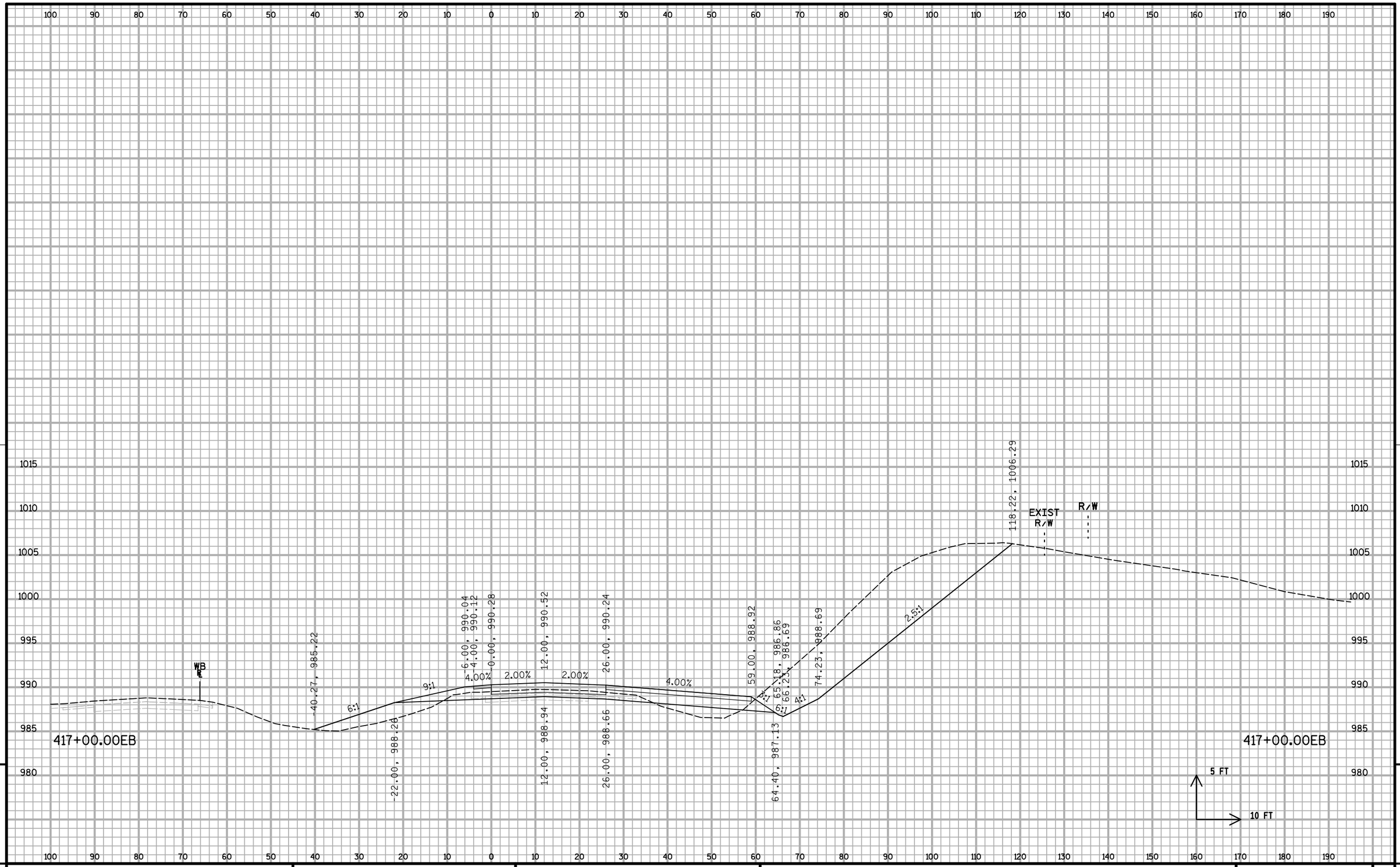
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET:	E

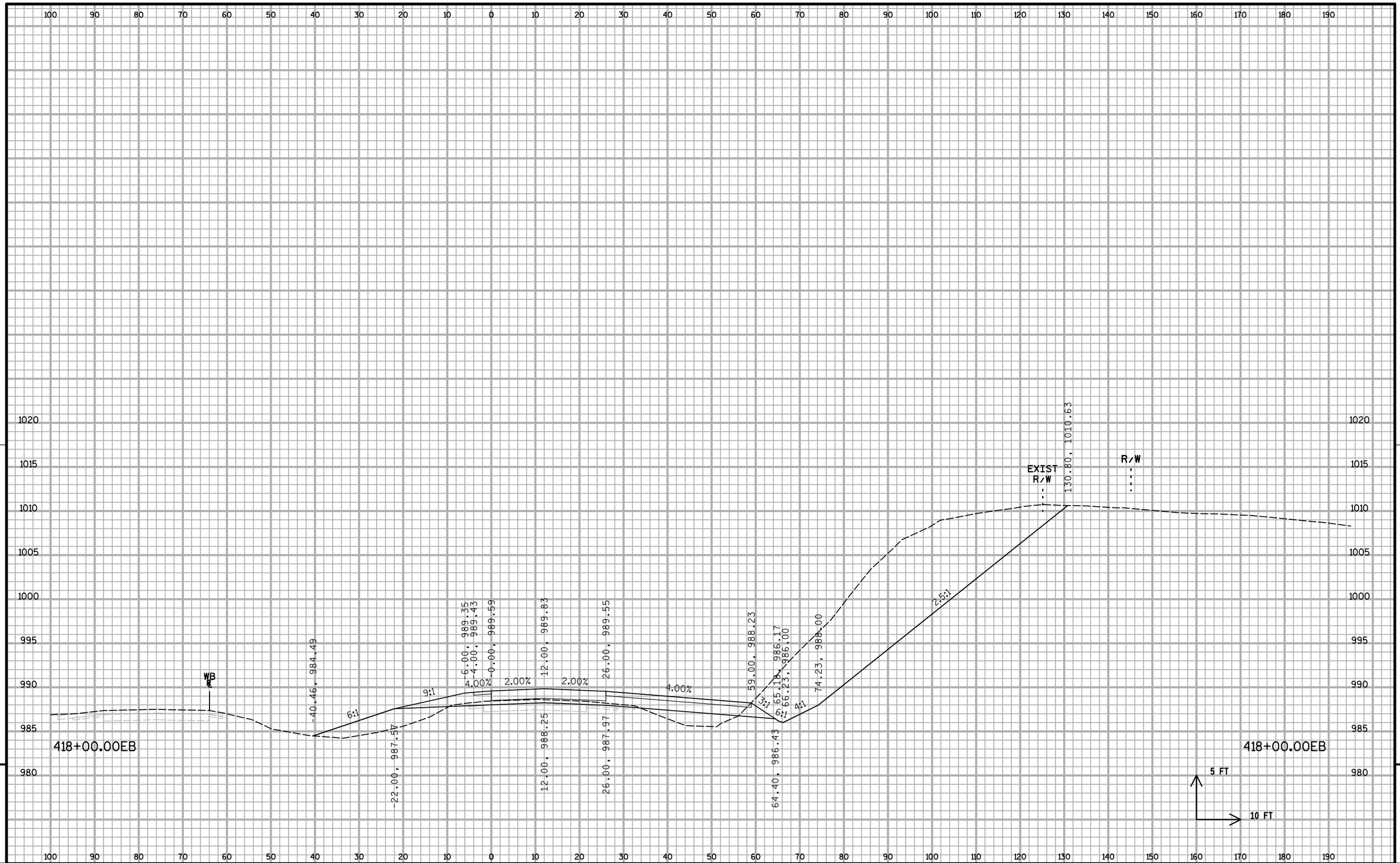
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090208_MLxs_S2.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

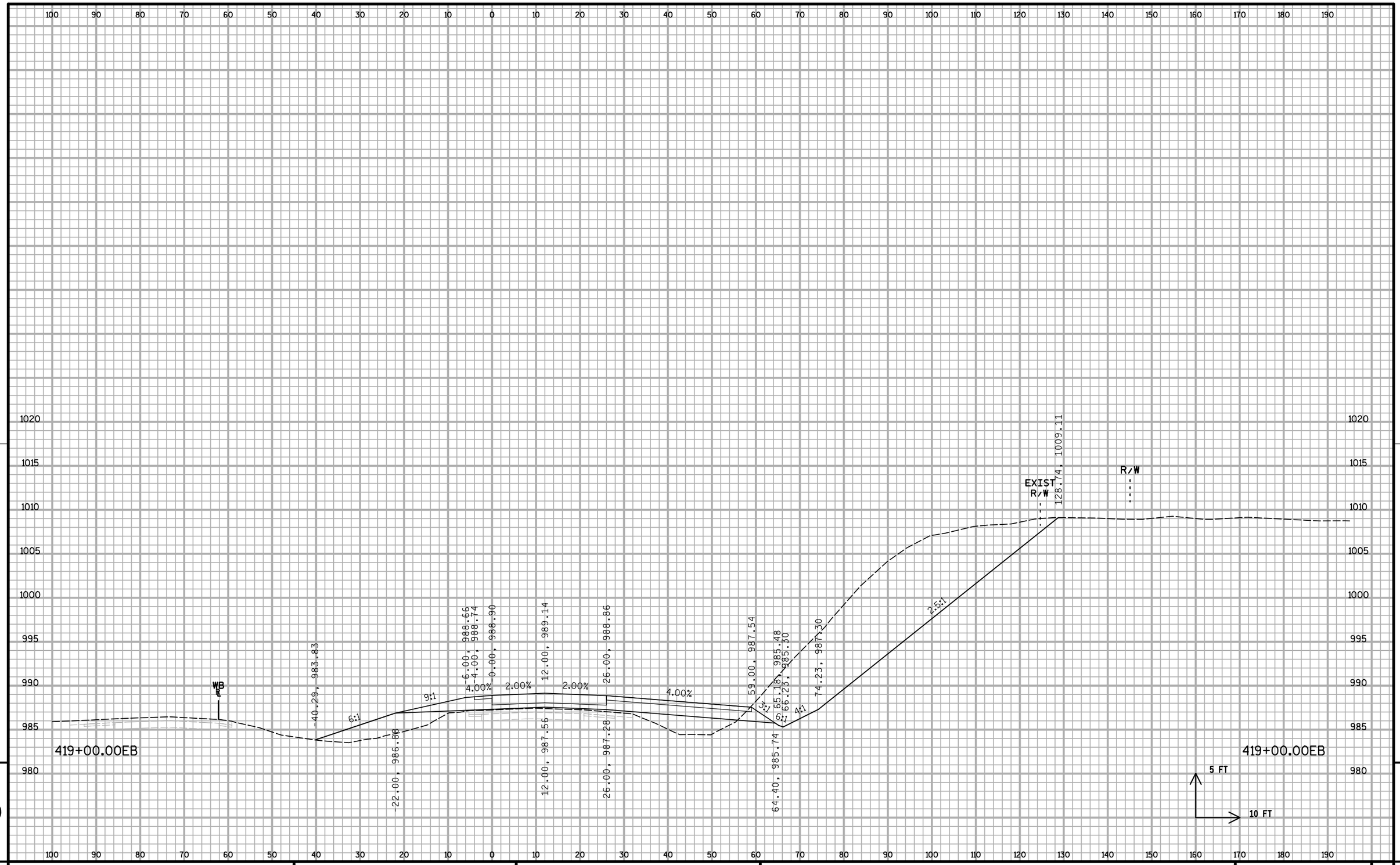


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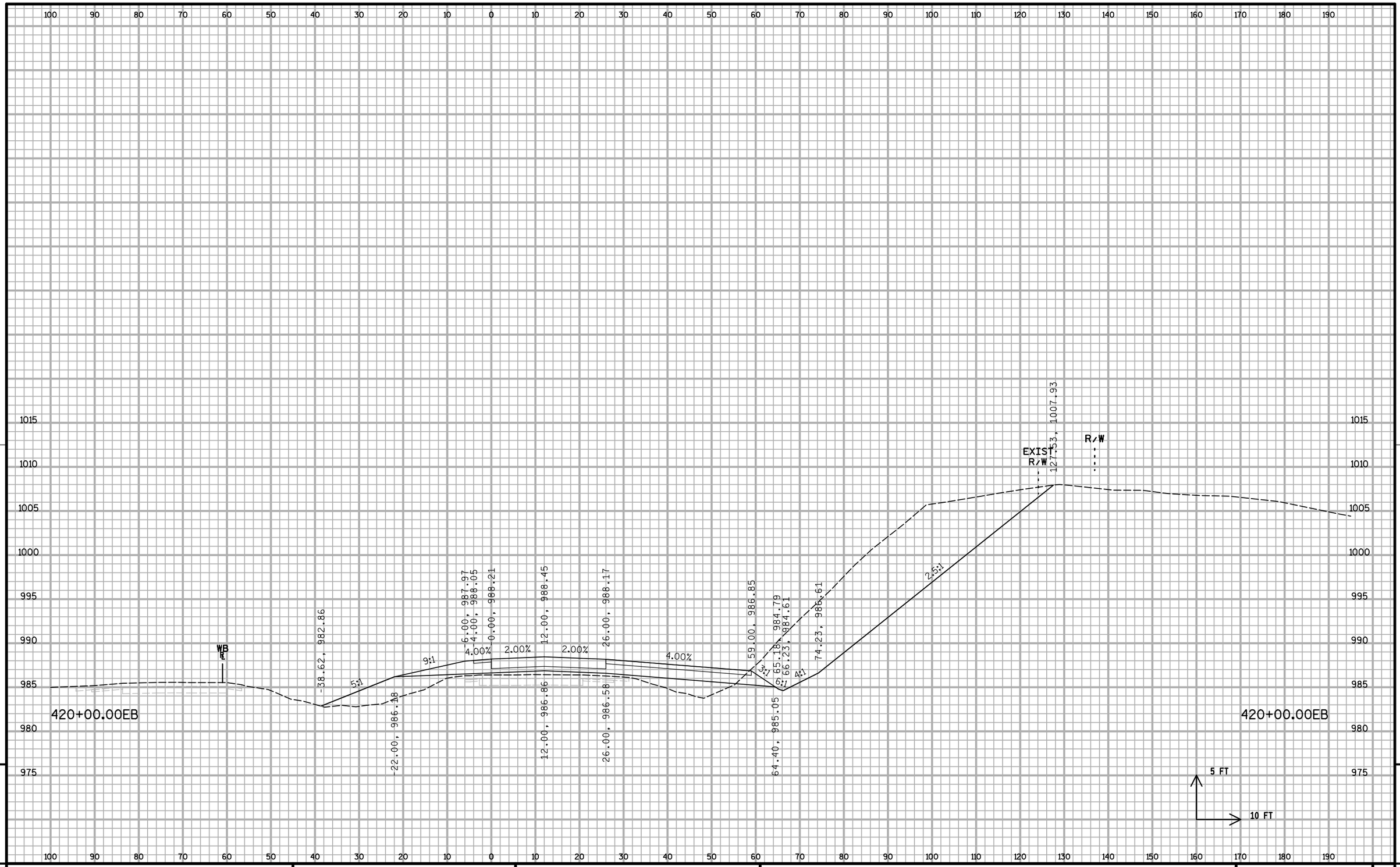
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090208_MLxs_S2.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

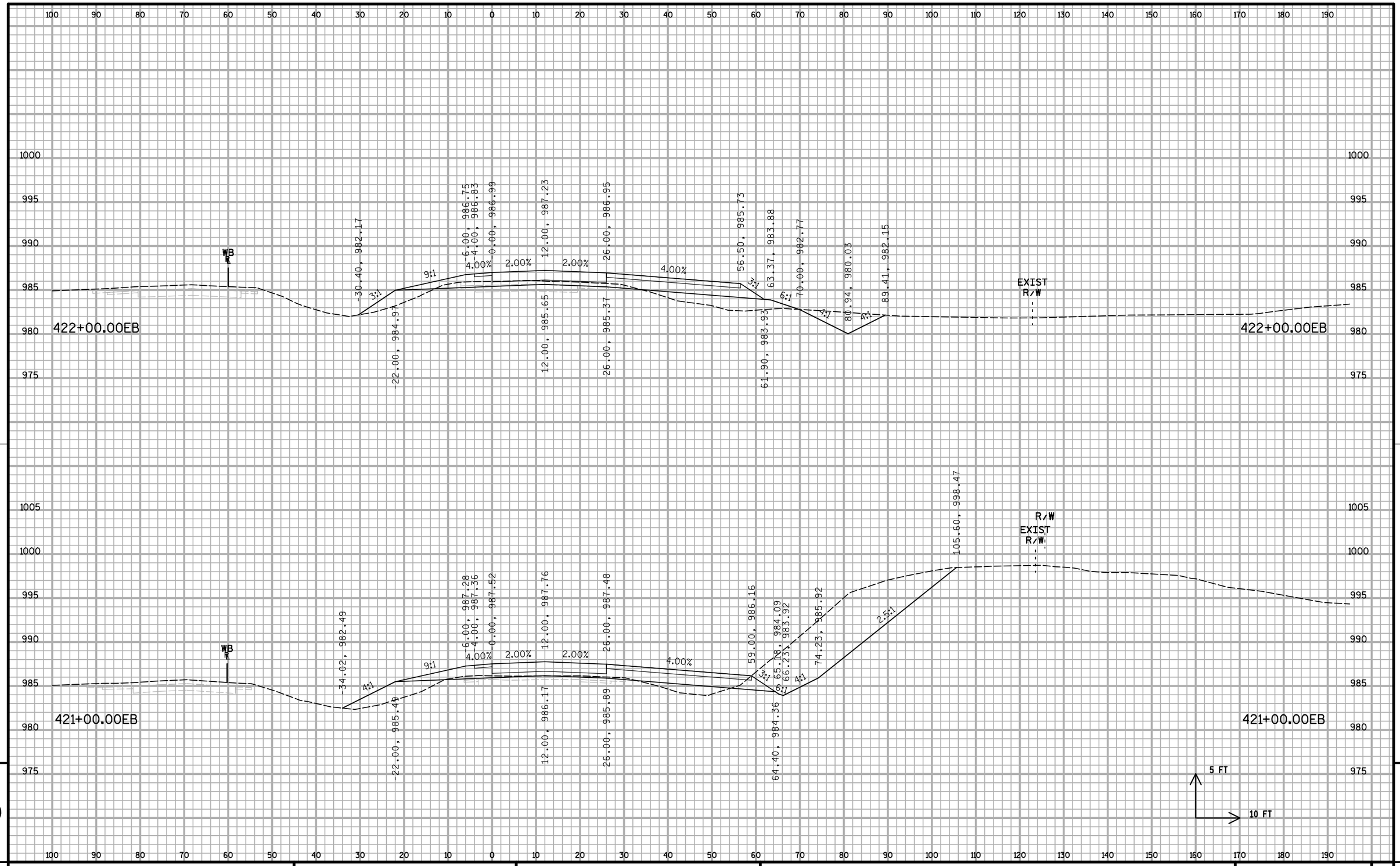


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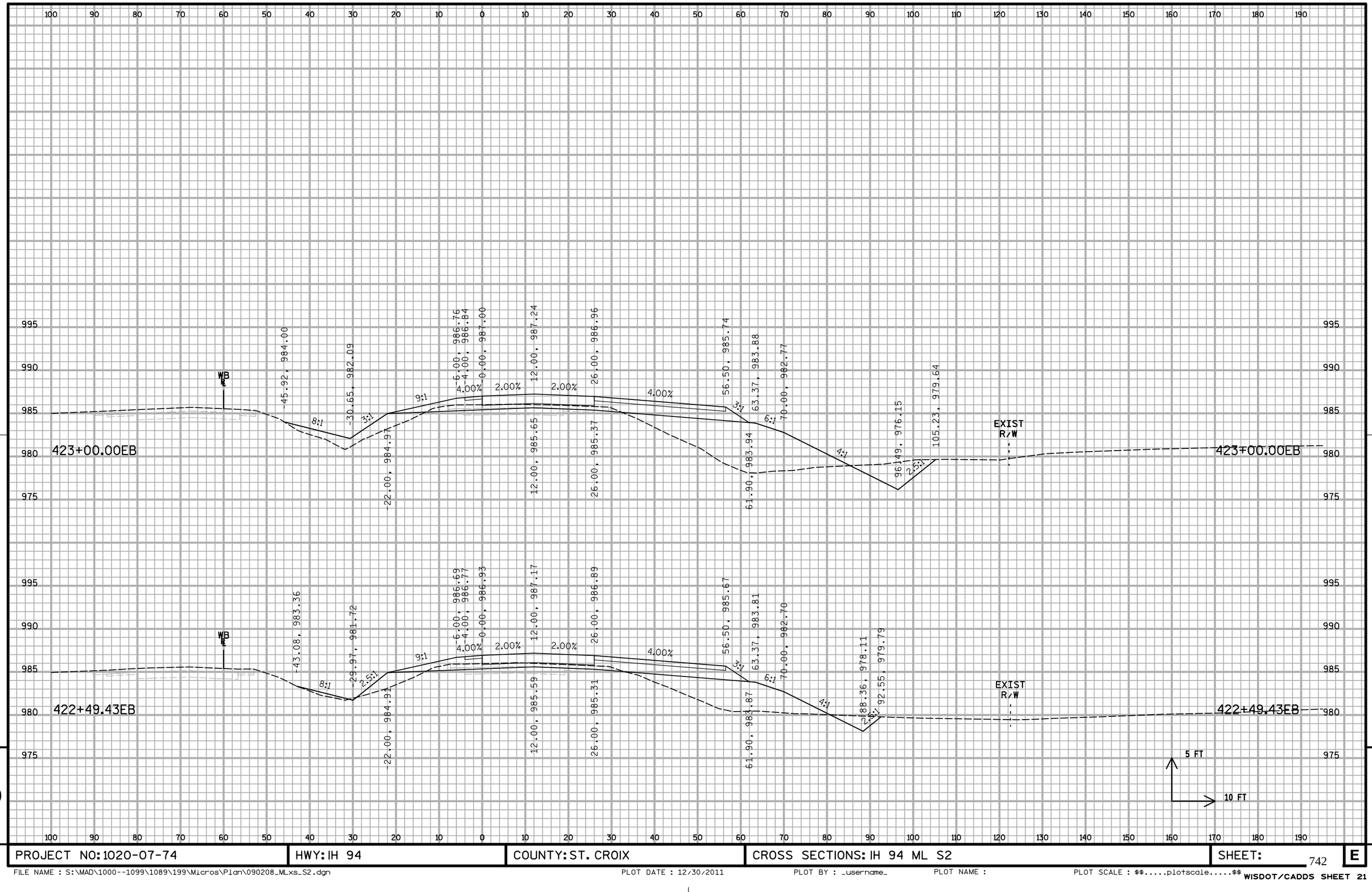
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET: 741	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090208_MLxs_S2.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

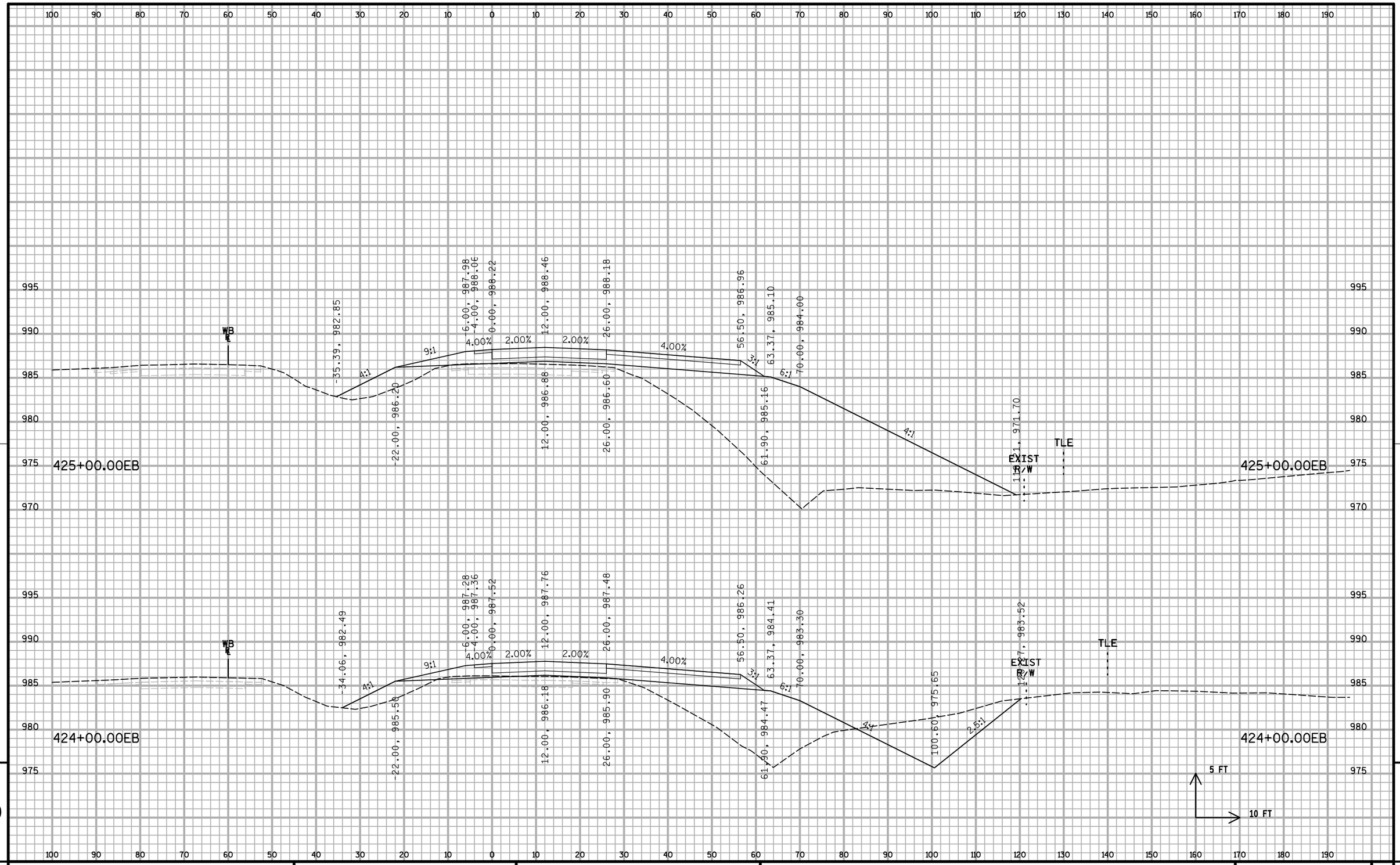


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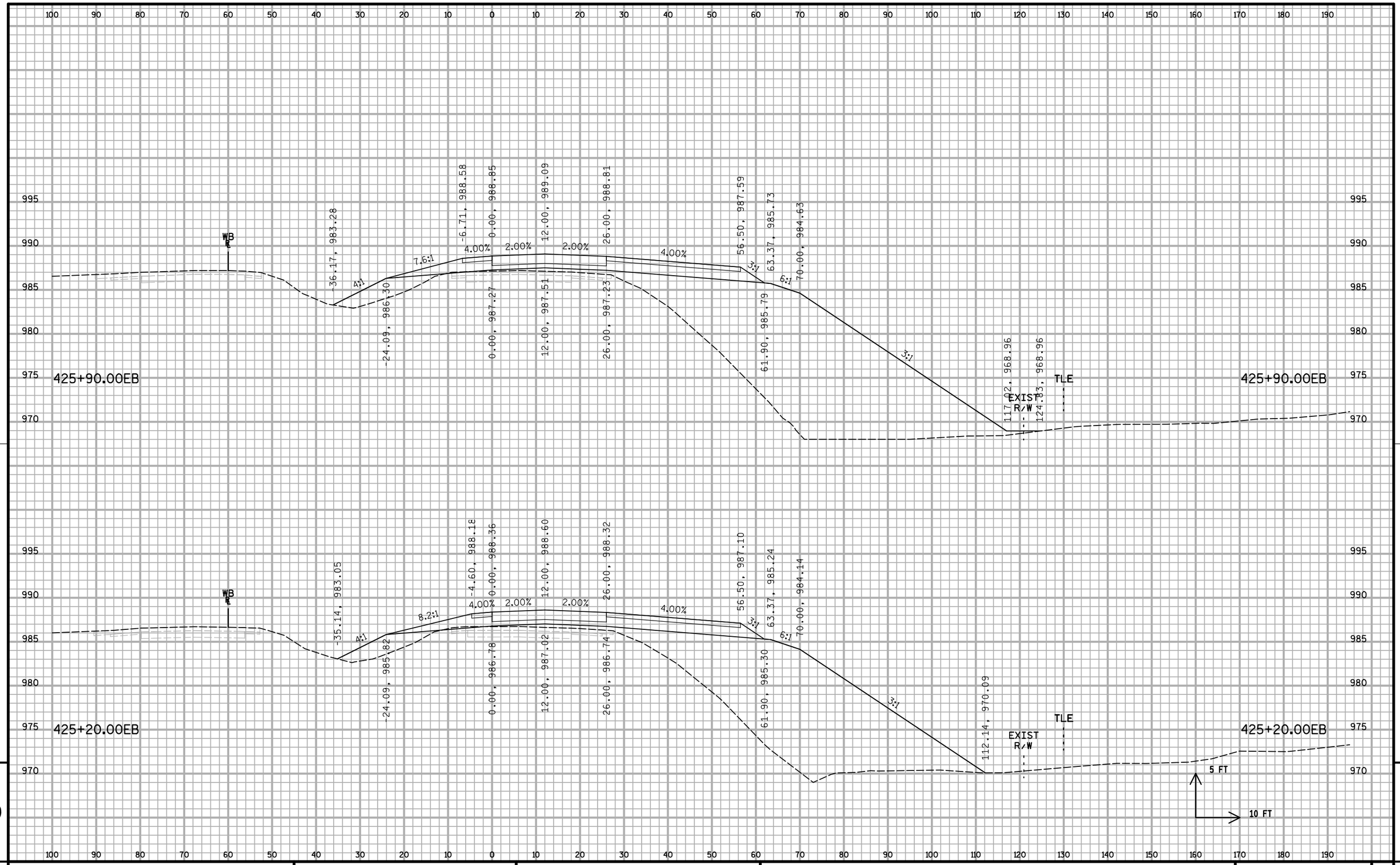
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090208_MLxs_S2.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090208_MLxs_S2.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

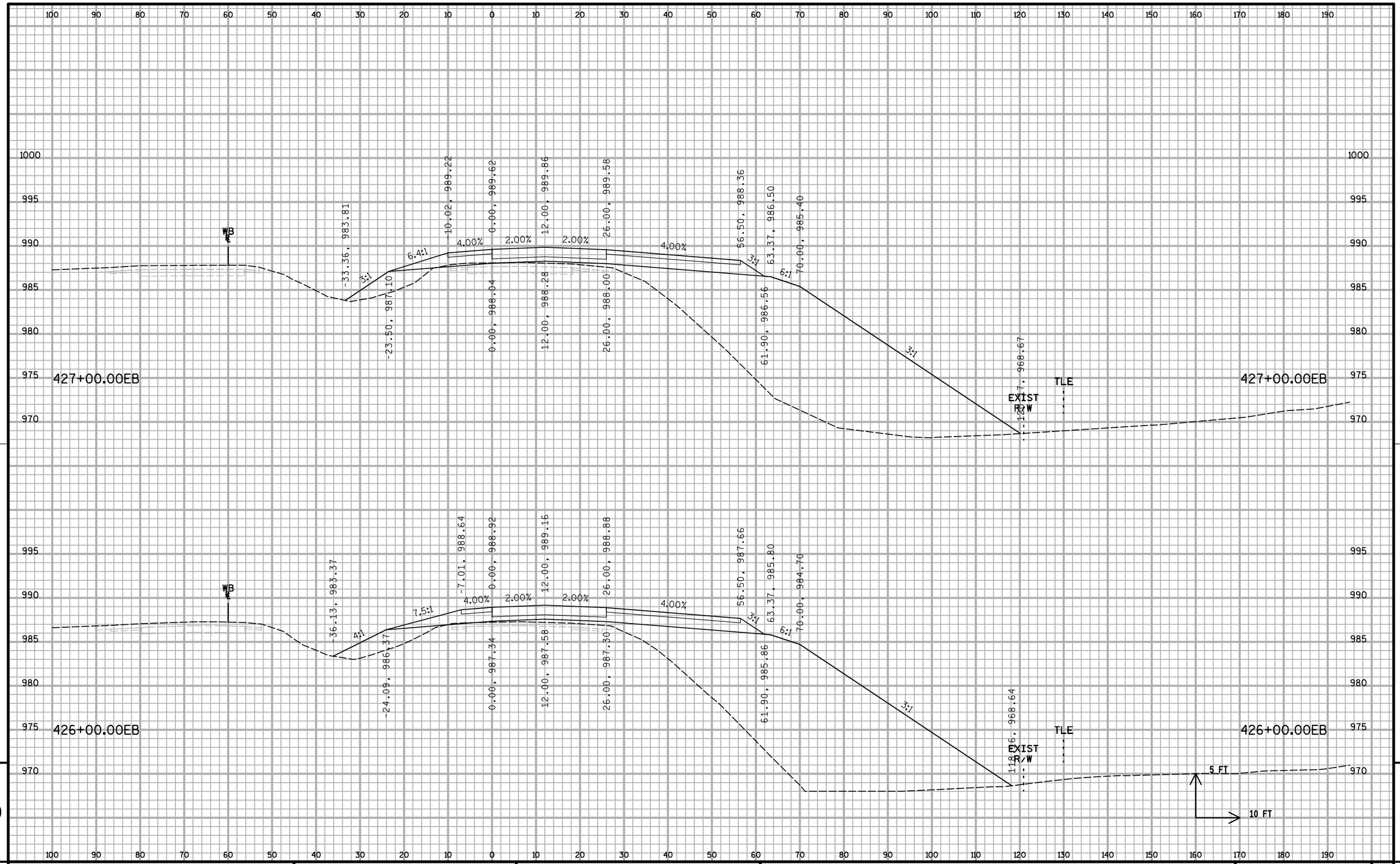


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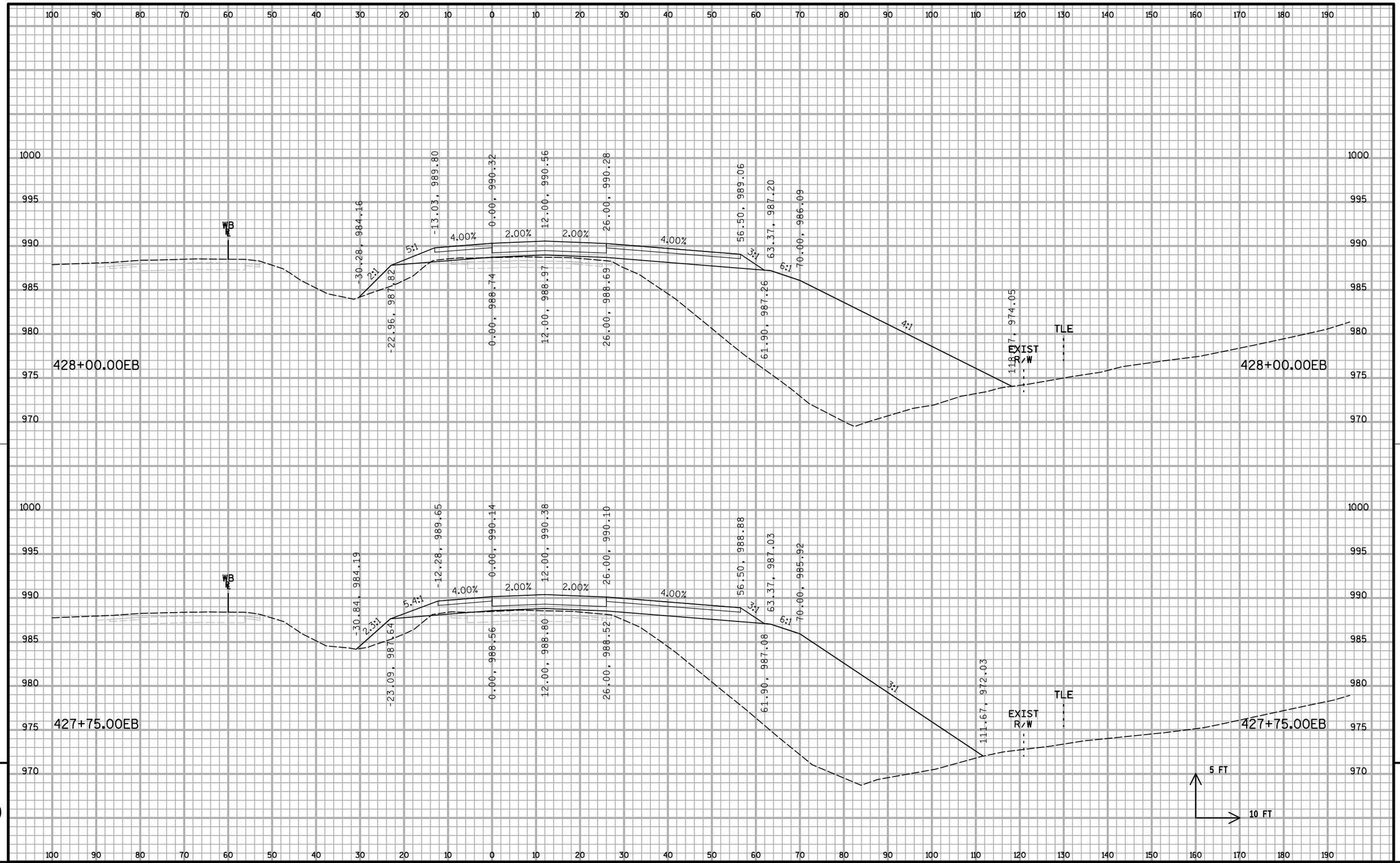
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090208_MLxs_S2.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090208_MLxs_S2.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

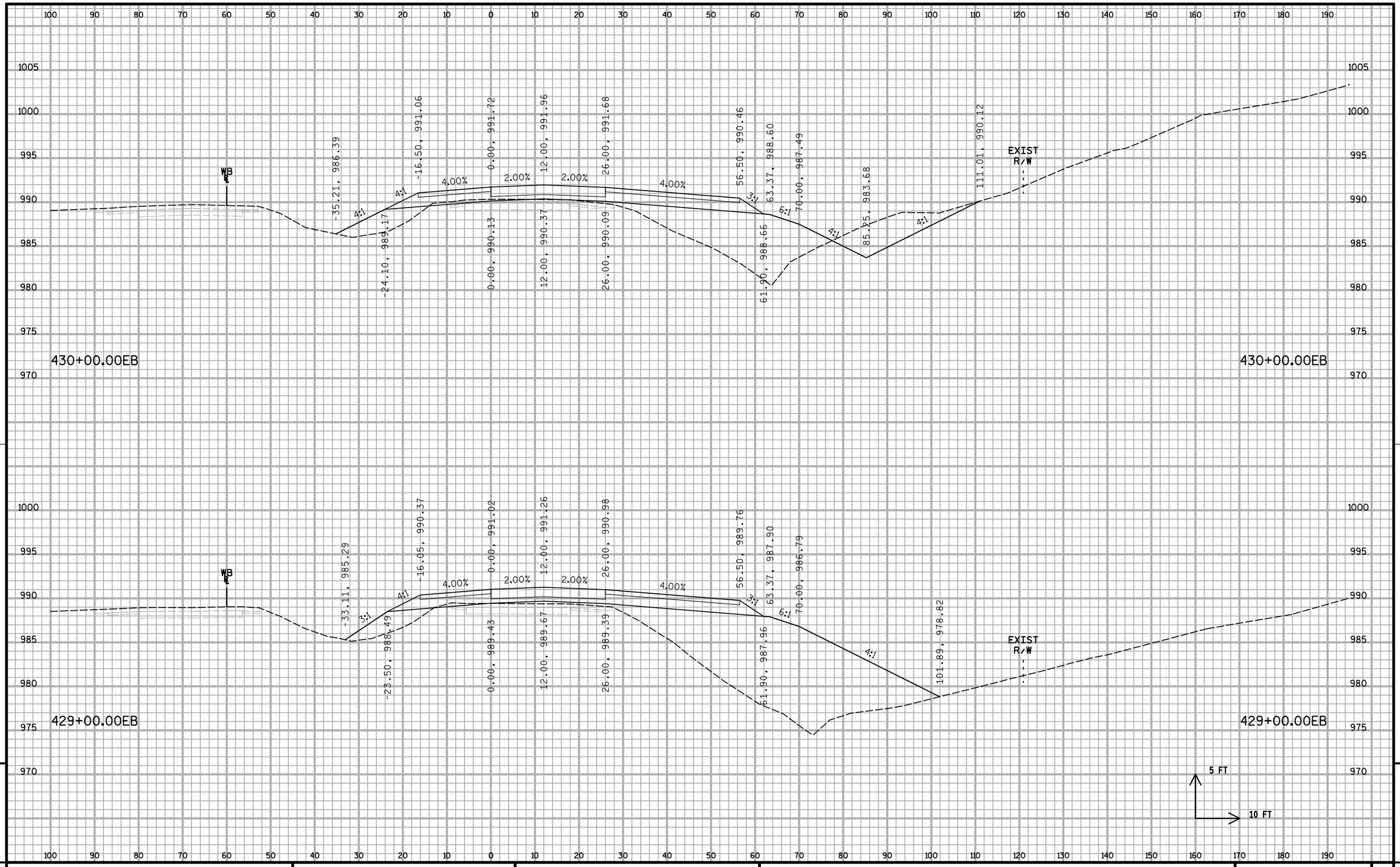


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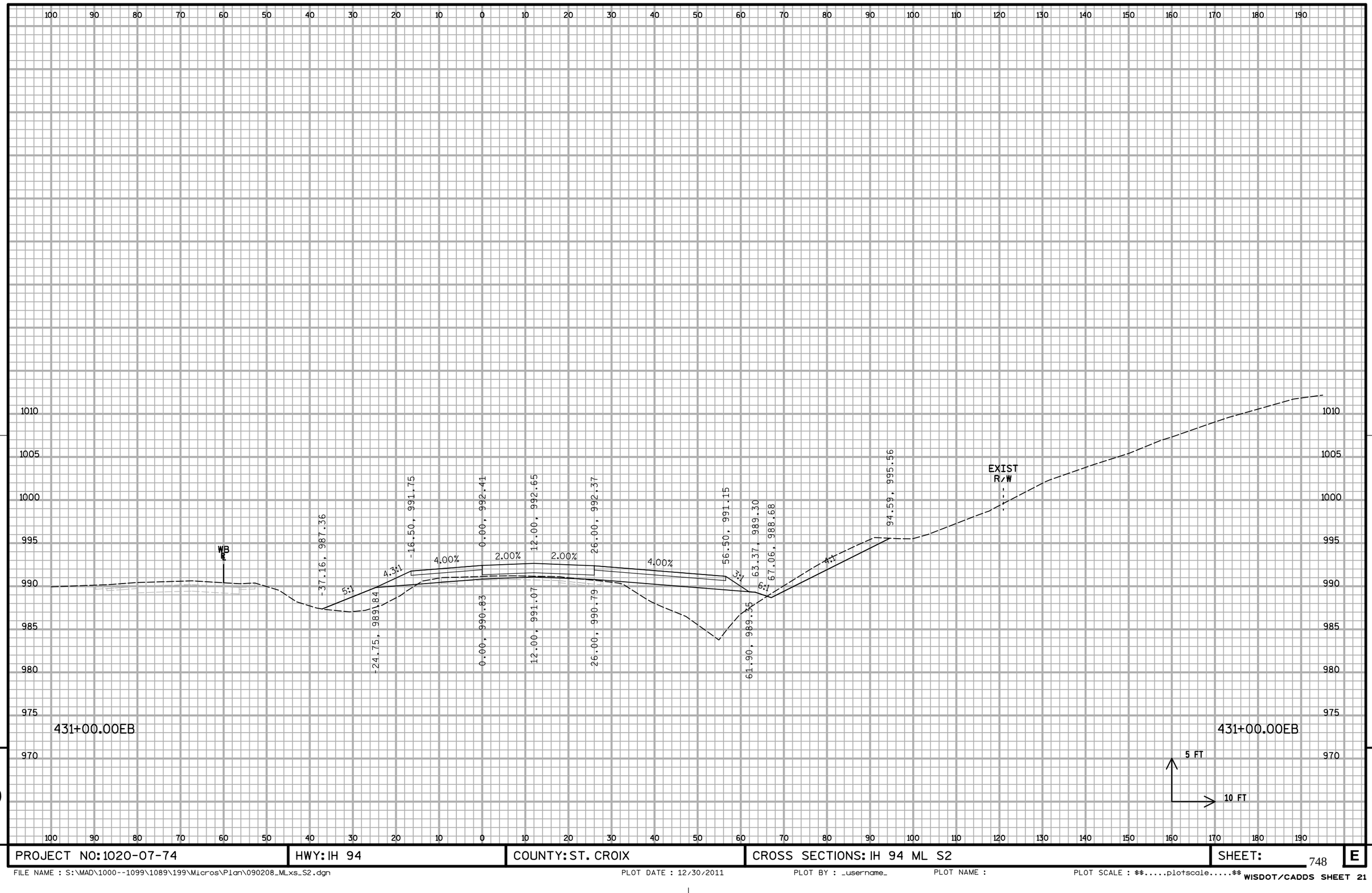
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090208_MLxs_S2.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET: 747	E

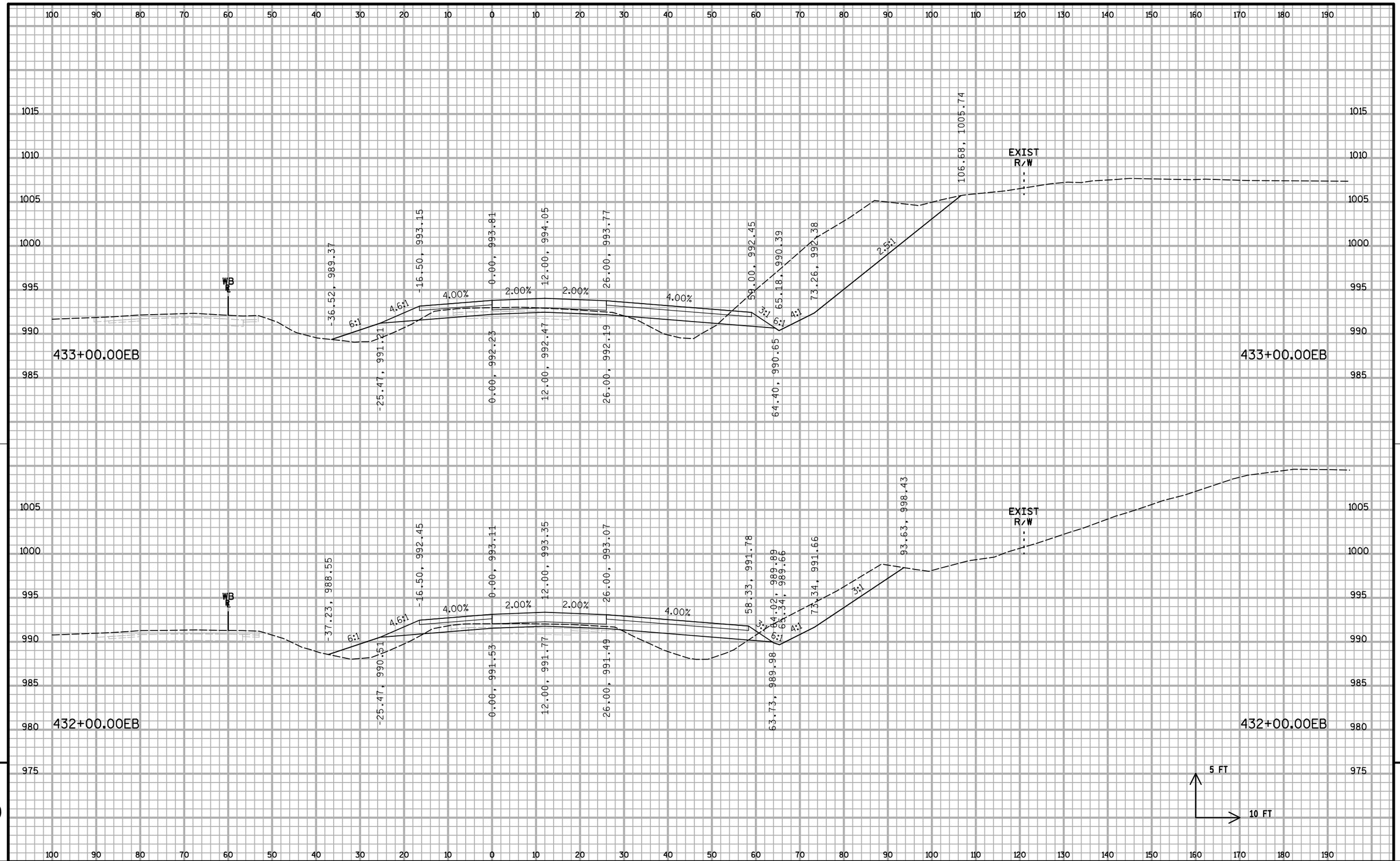
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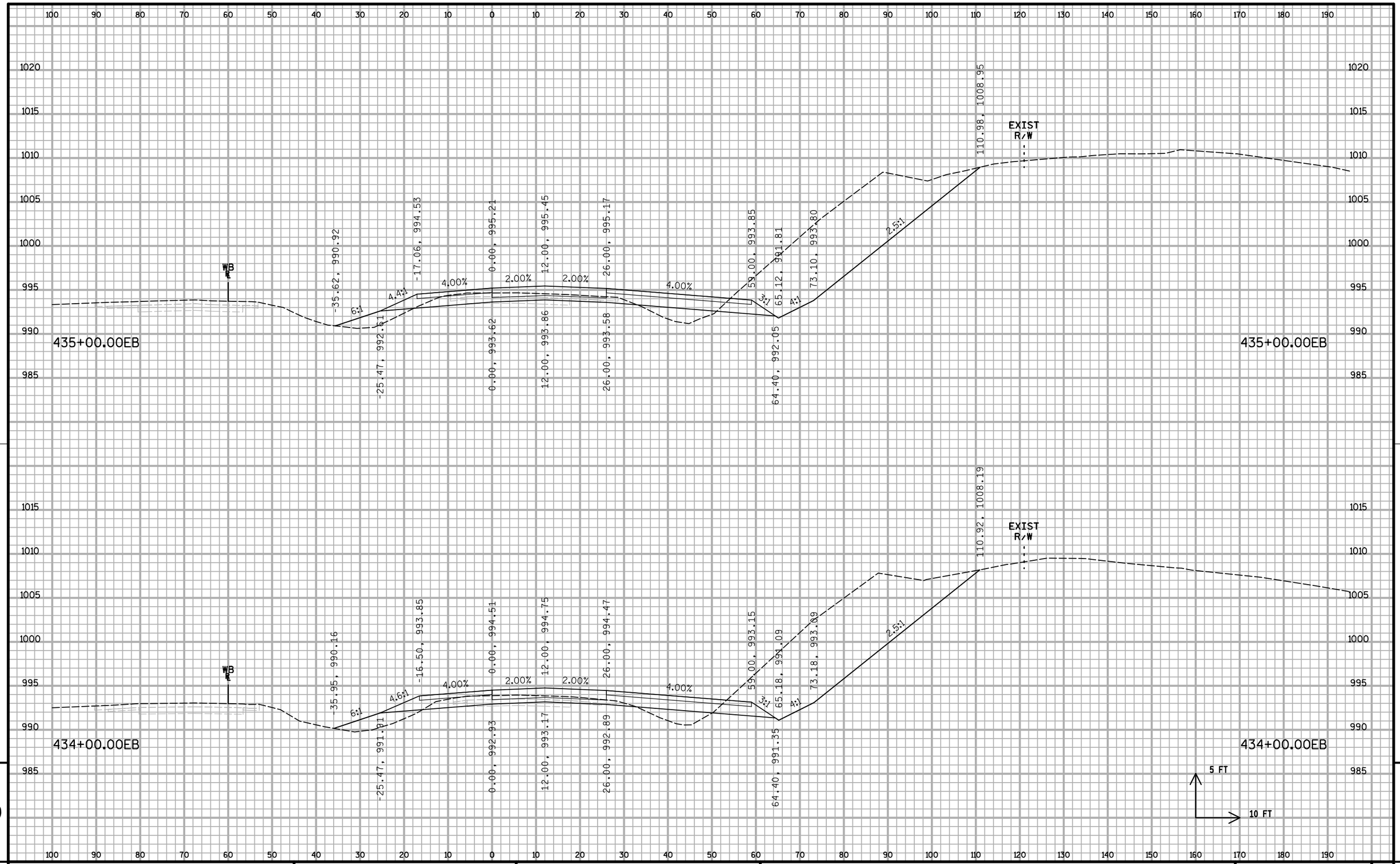
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090208_MLxs_S2.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090208_MLxs_S2.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

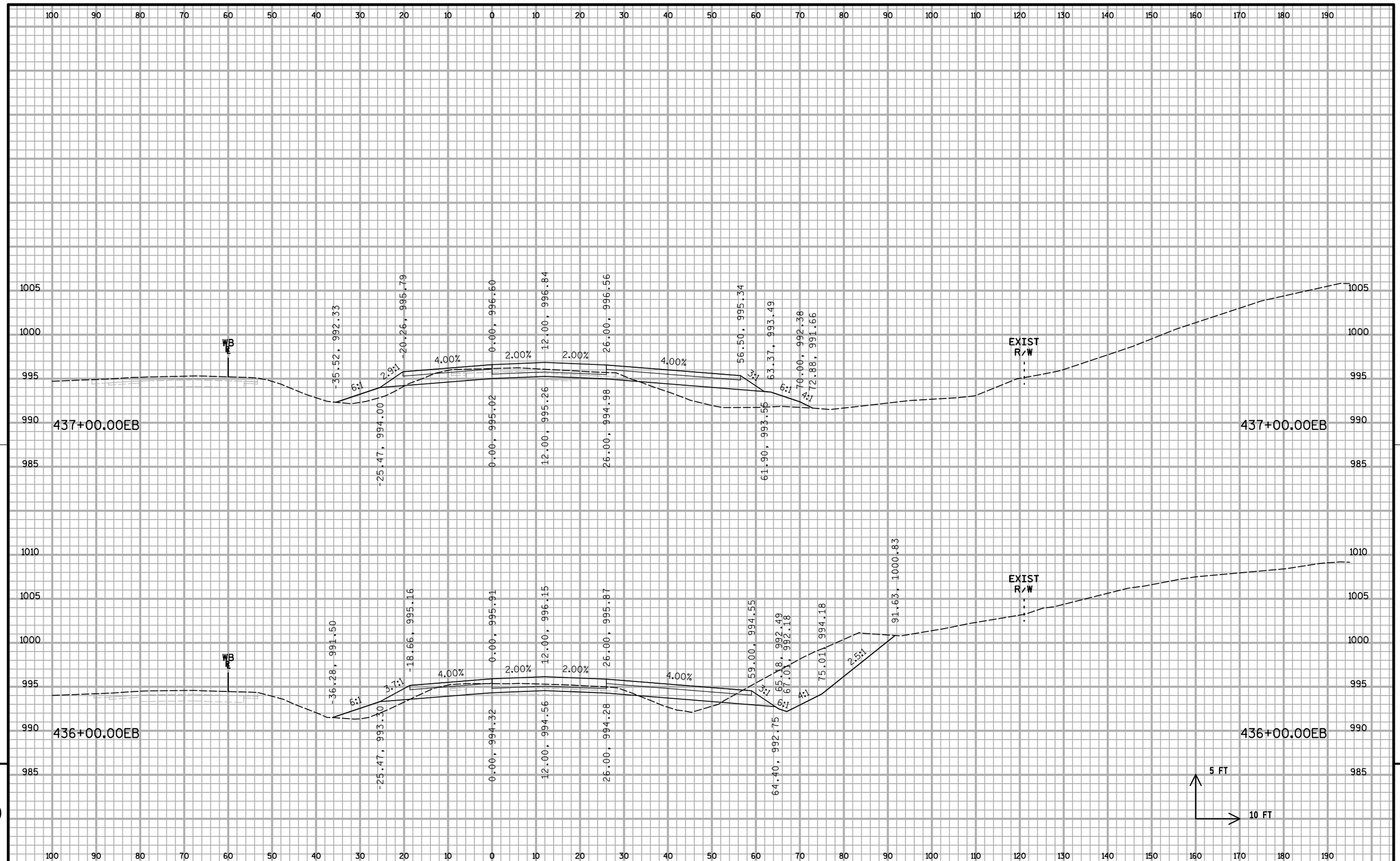


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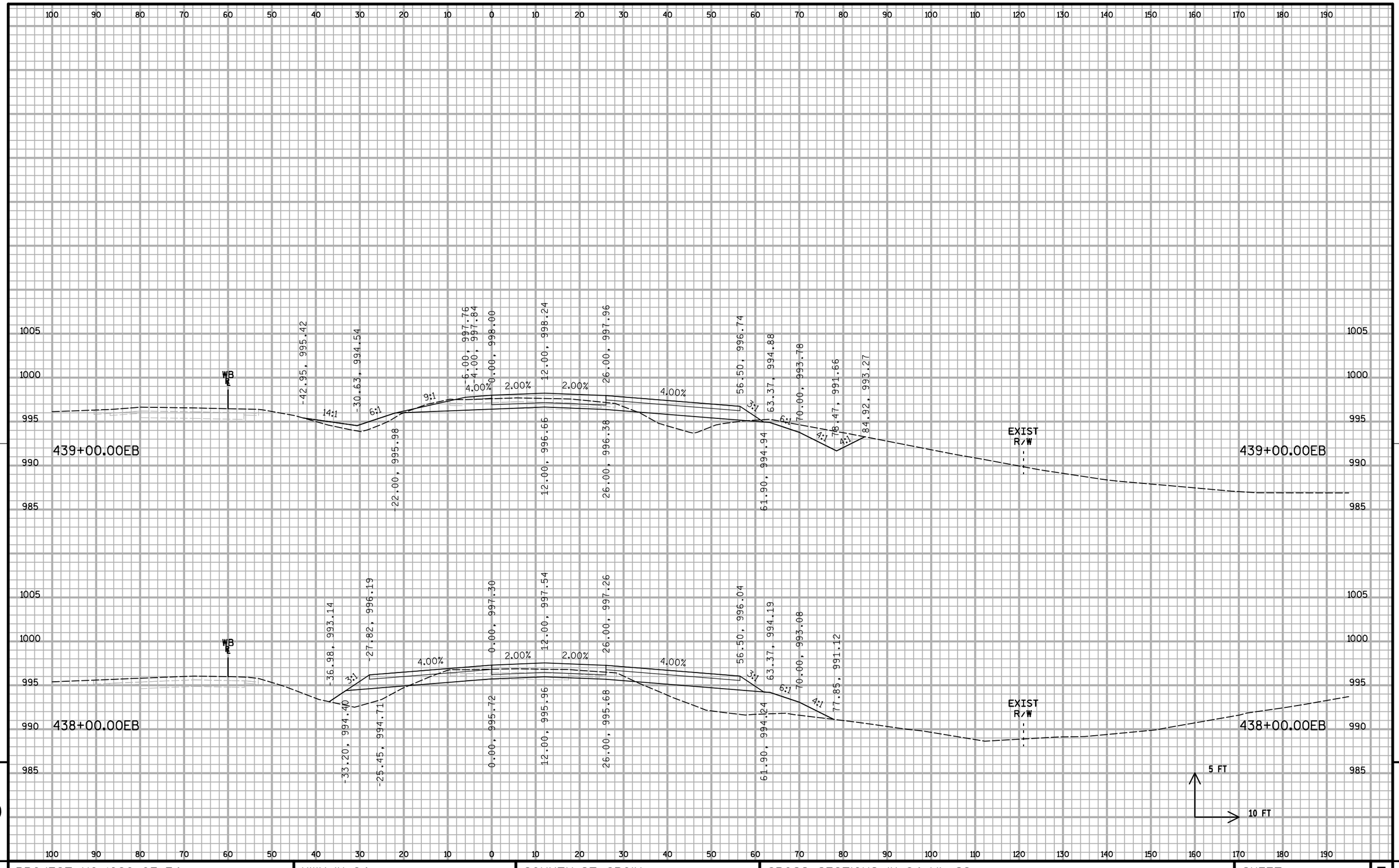
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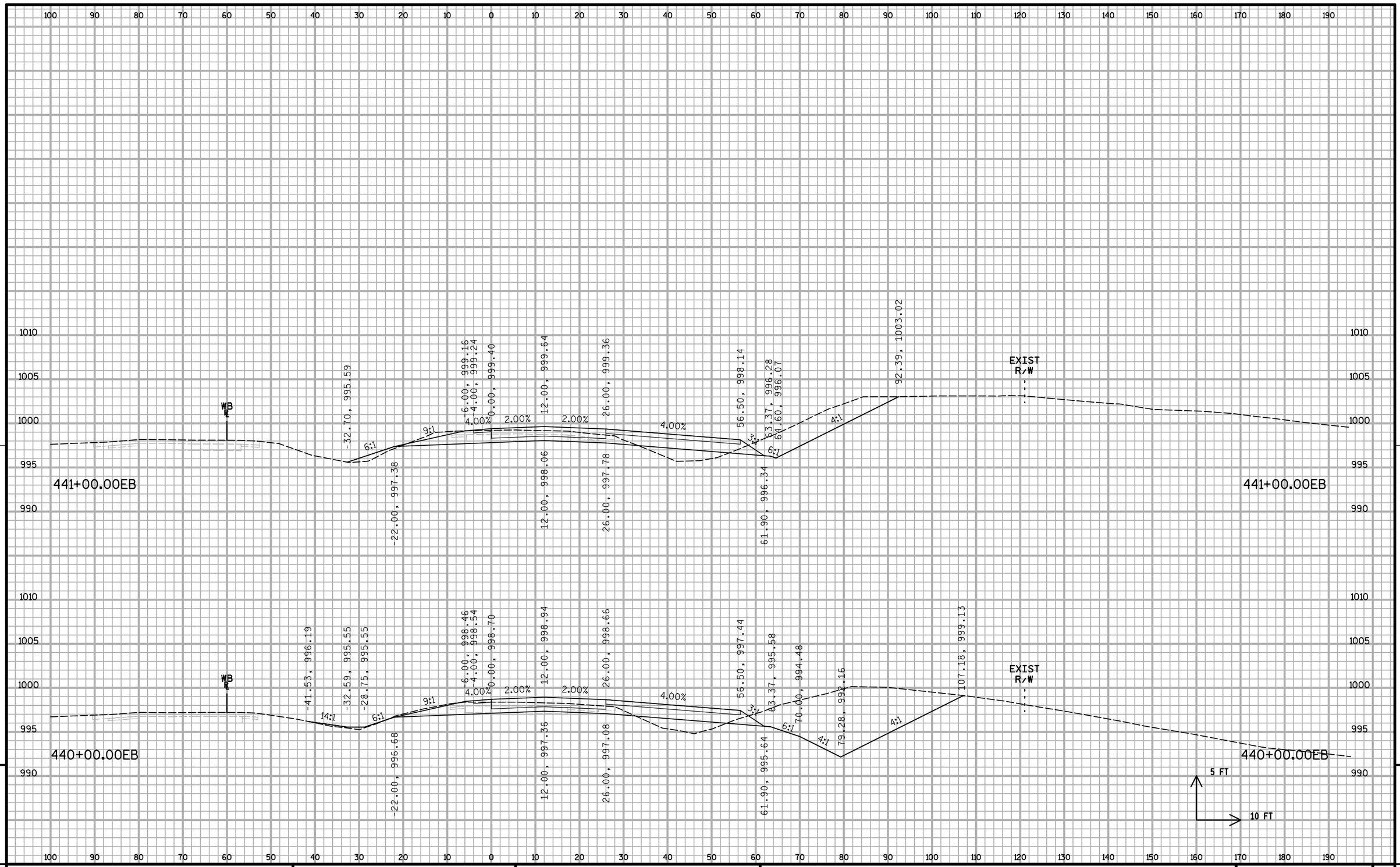
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090208_MLxs_S2.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



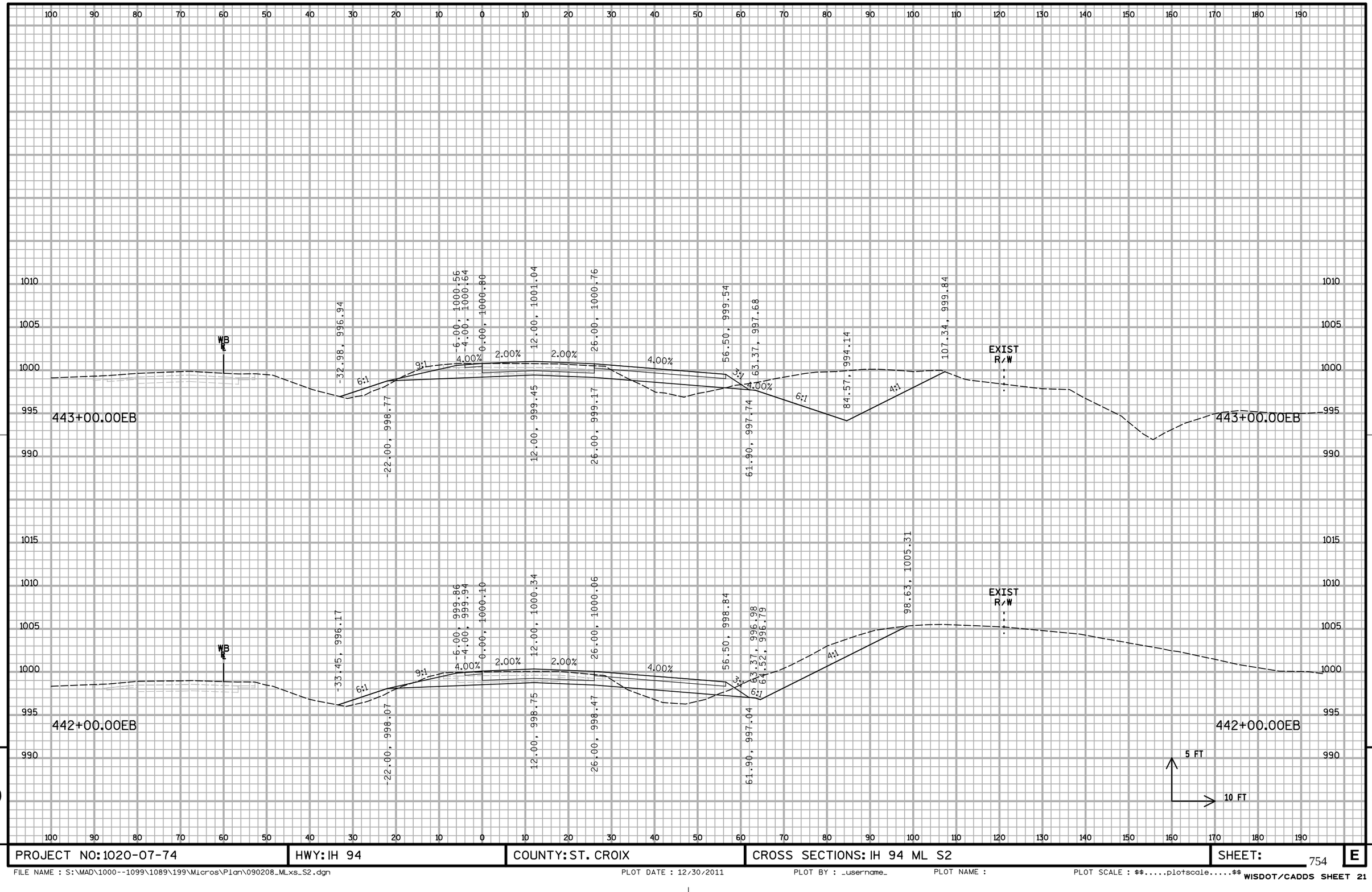
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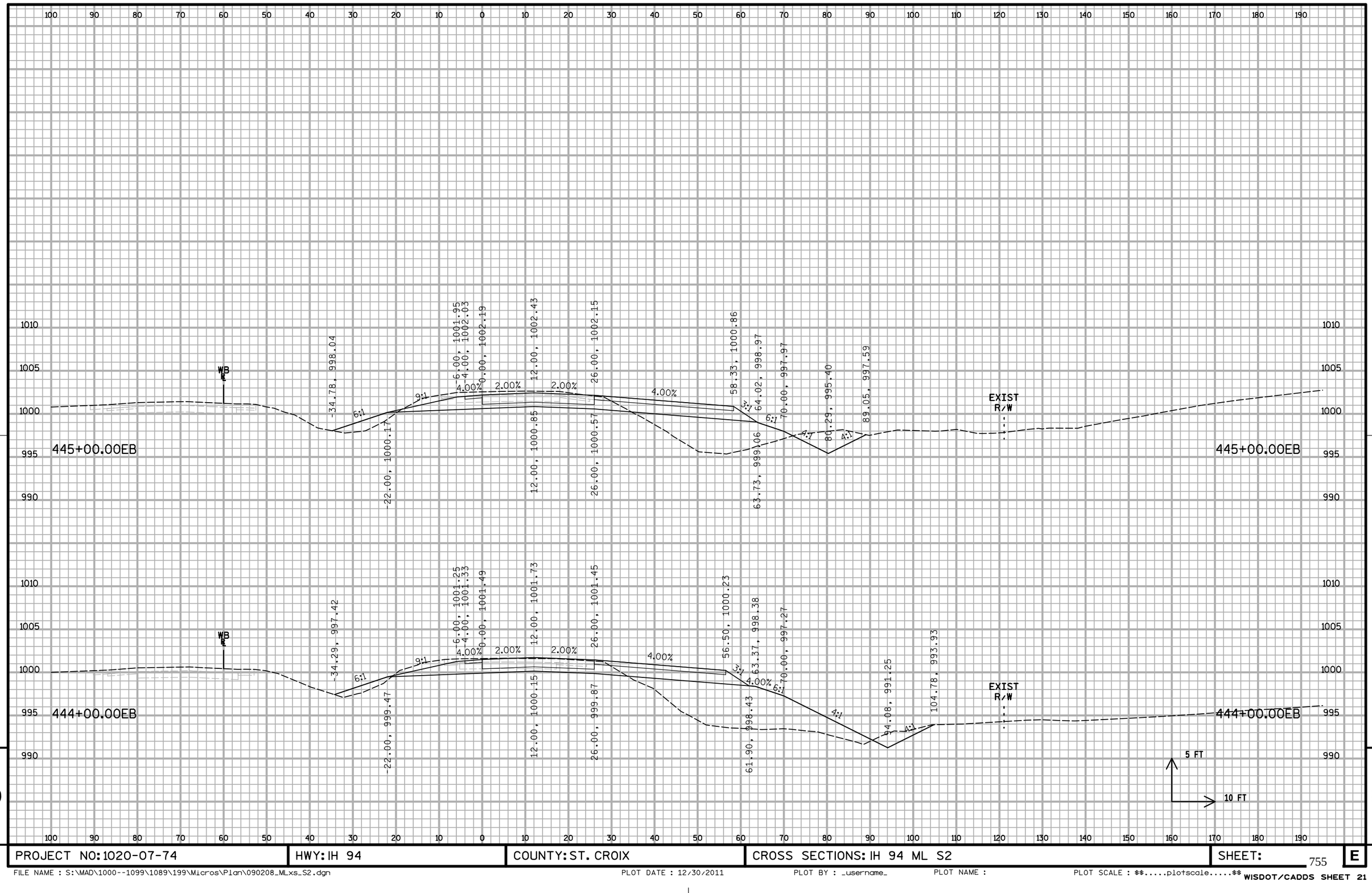
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090208_MLxs_S2.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$



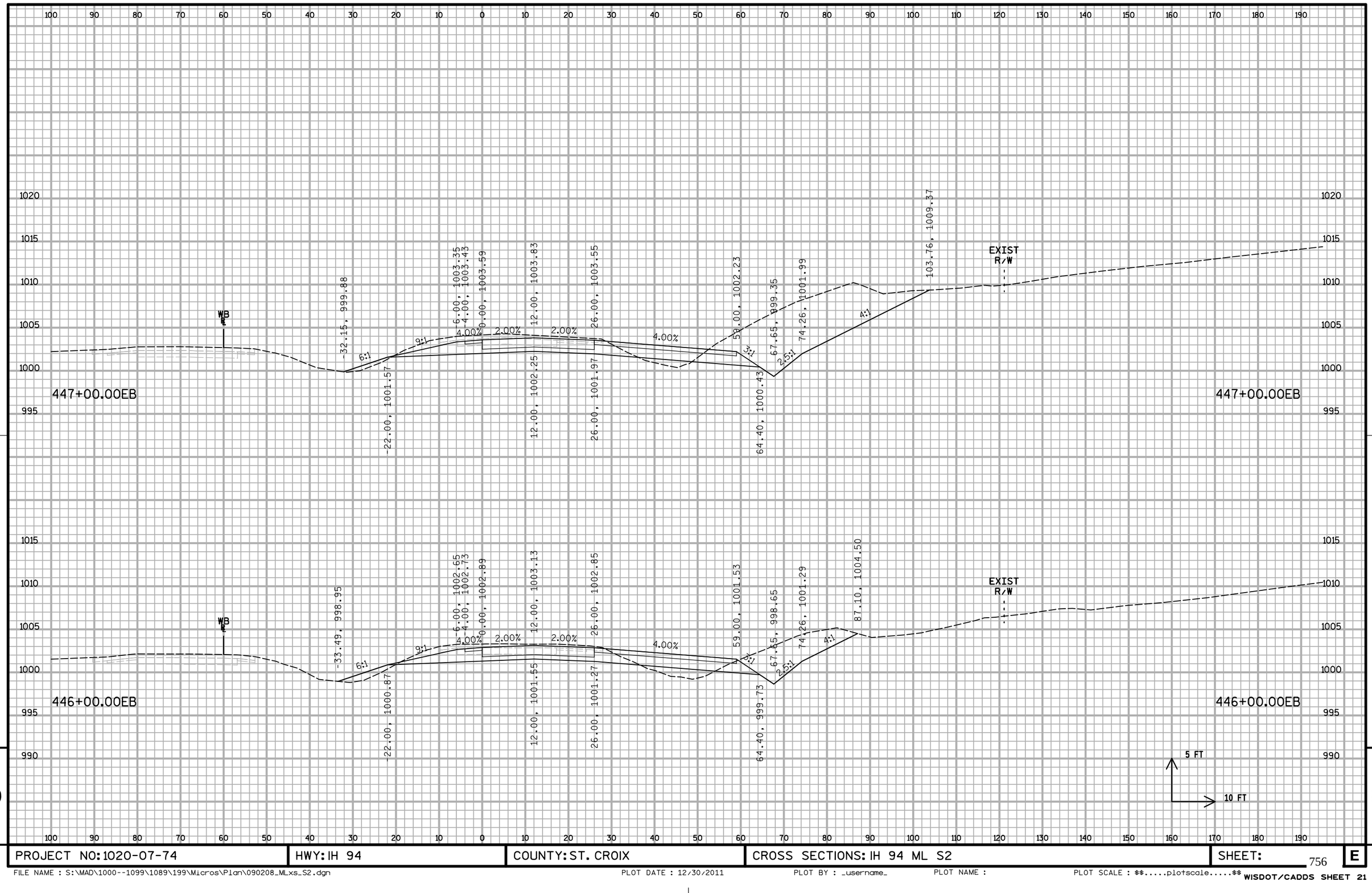
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET: 754 E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090208_MLxs_S2.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET: 755	E

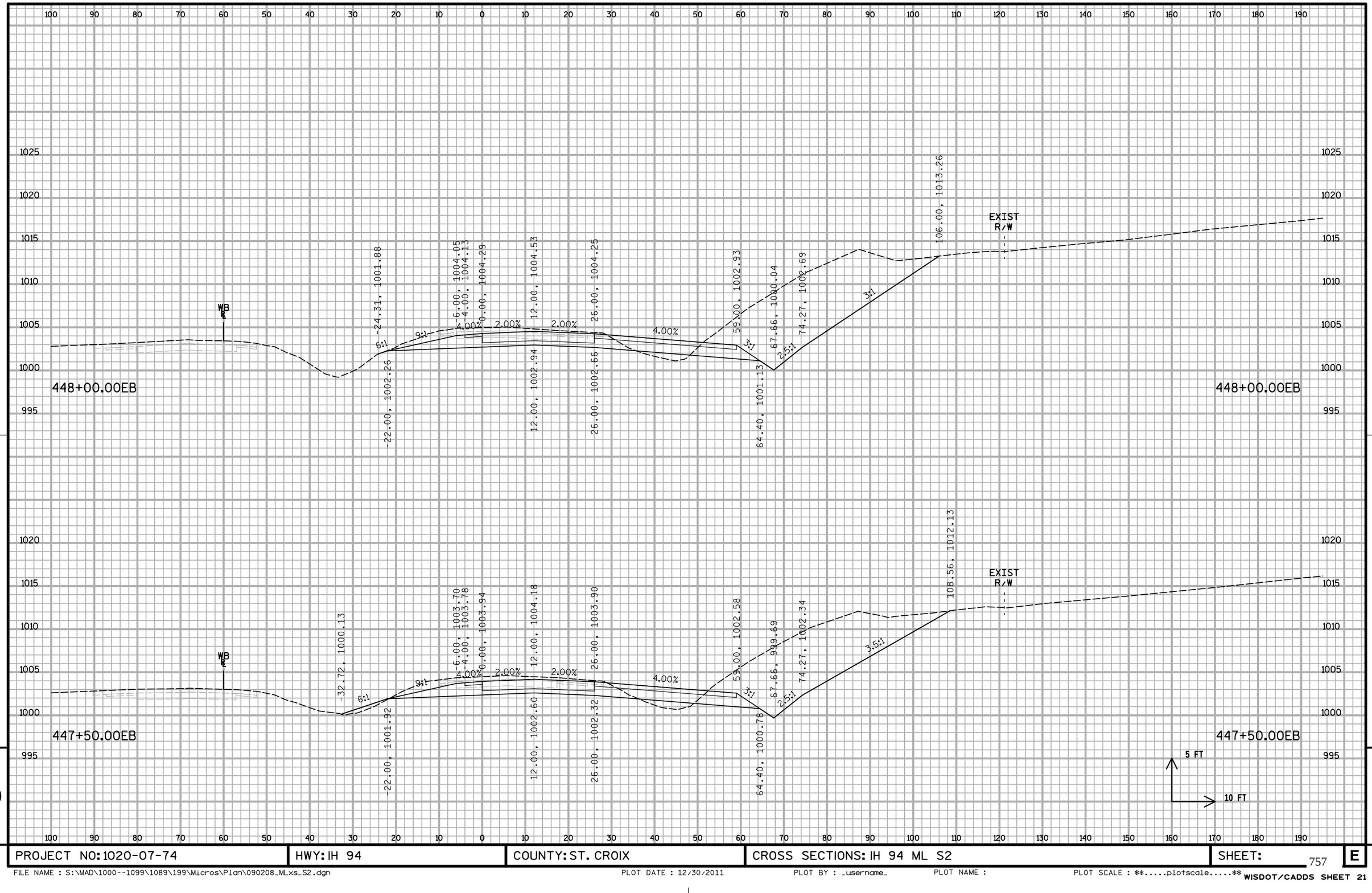
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET: 756	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090208_MLxs_S2.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

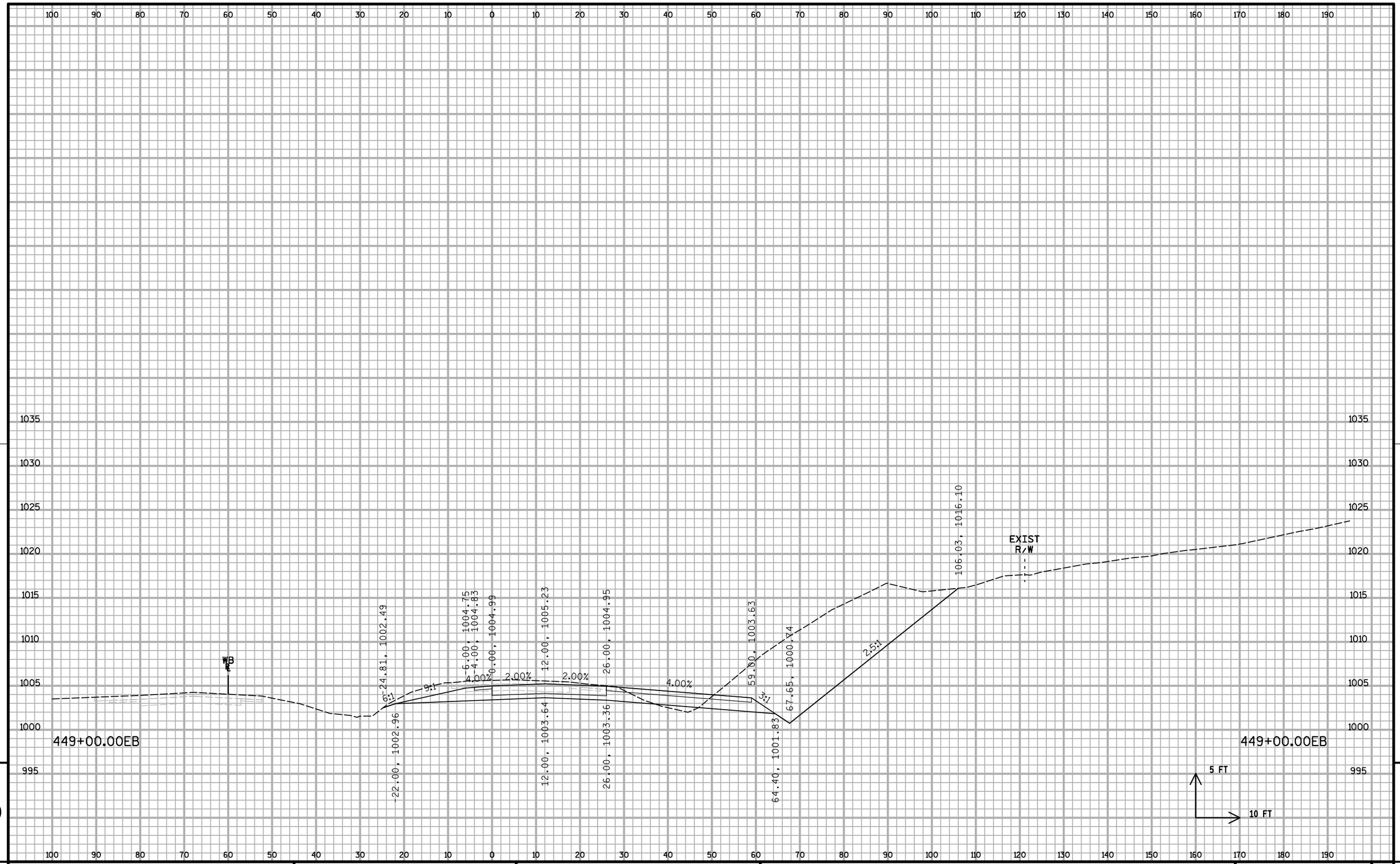


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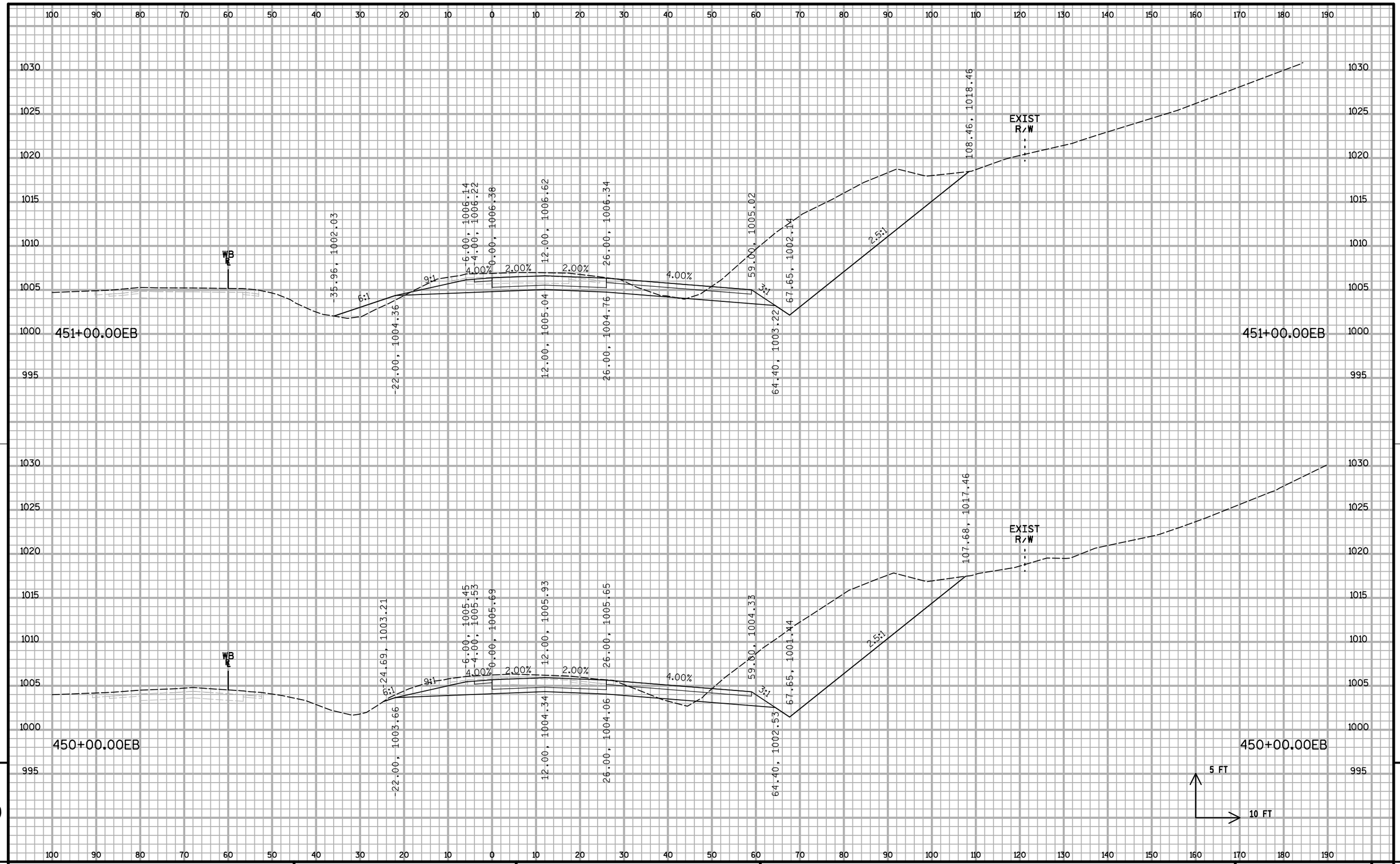
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090208_MLxs_S2.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



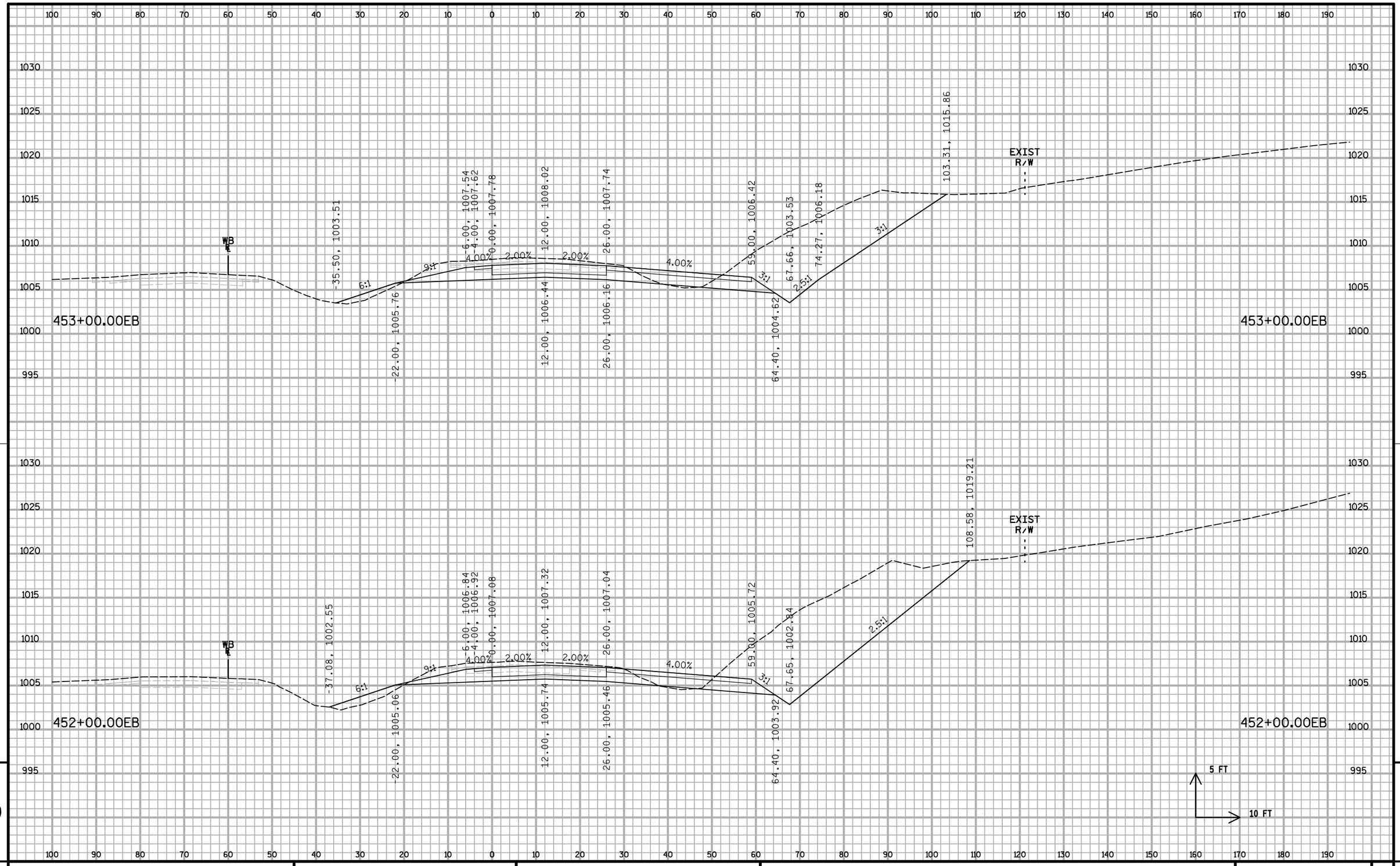
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090208_MLxs_S2.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



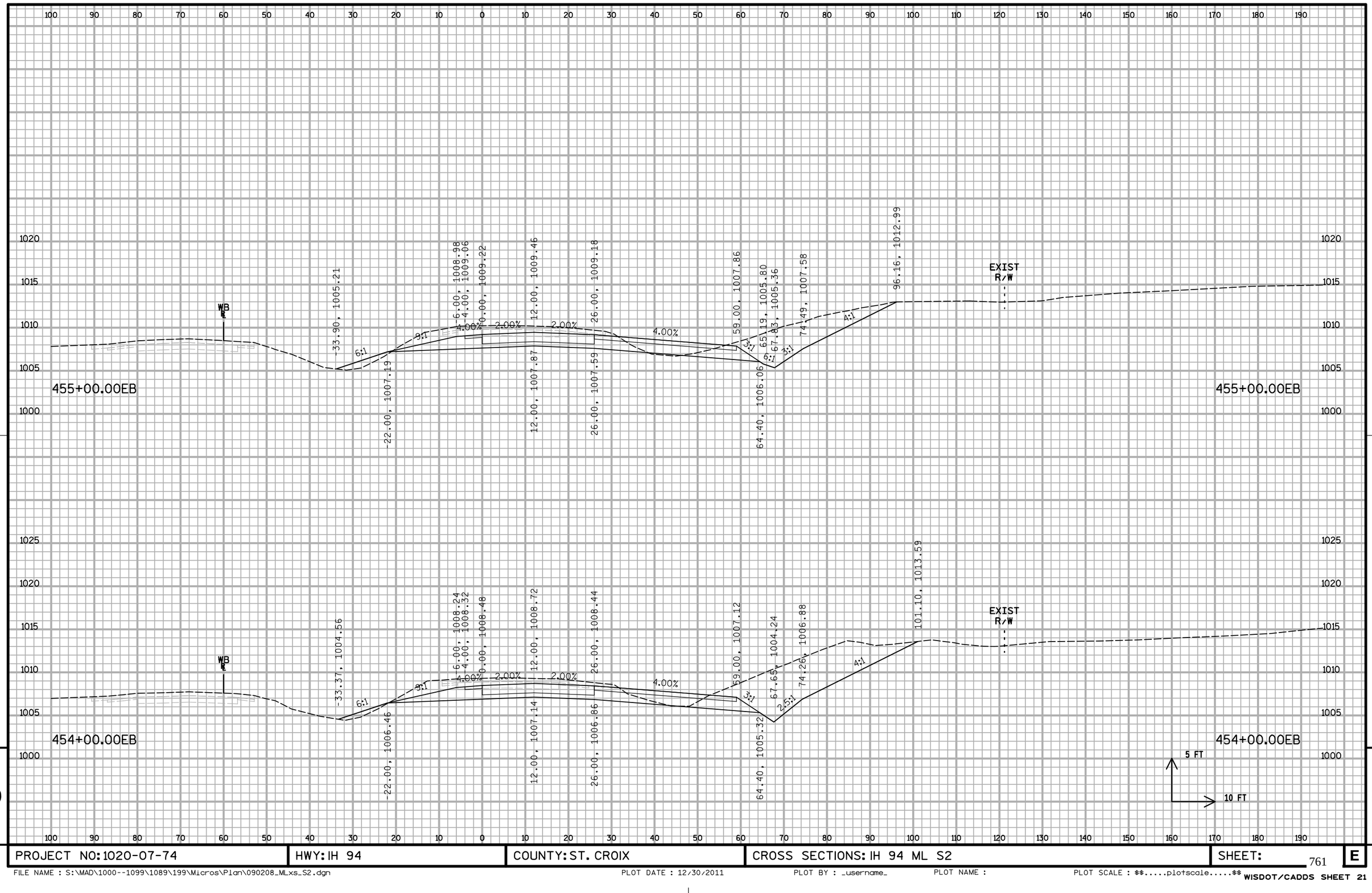
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090208_MLxs_S2.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



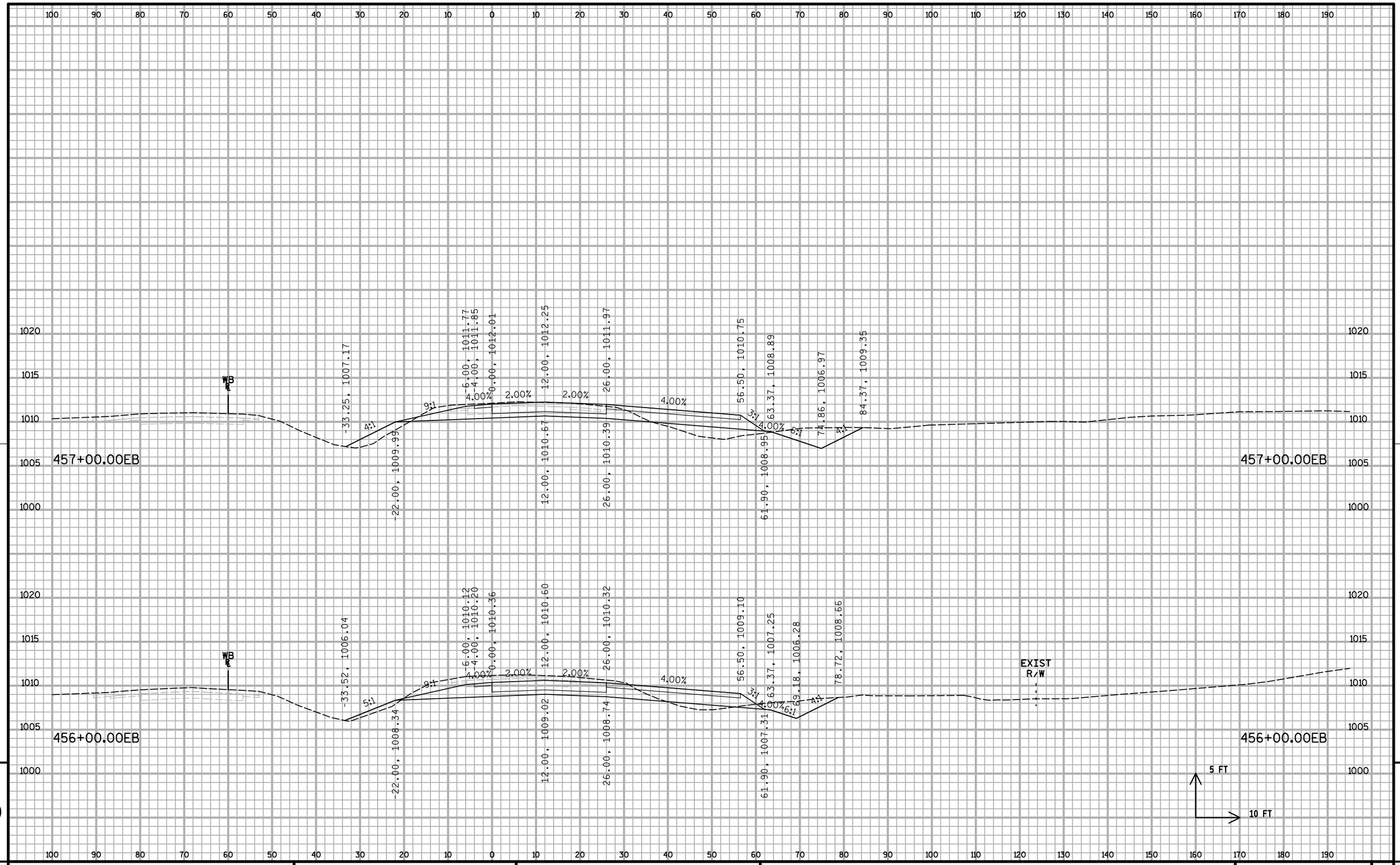
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090208_MLxs_S2.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET:	E

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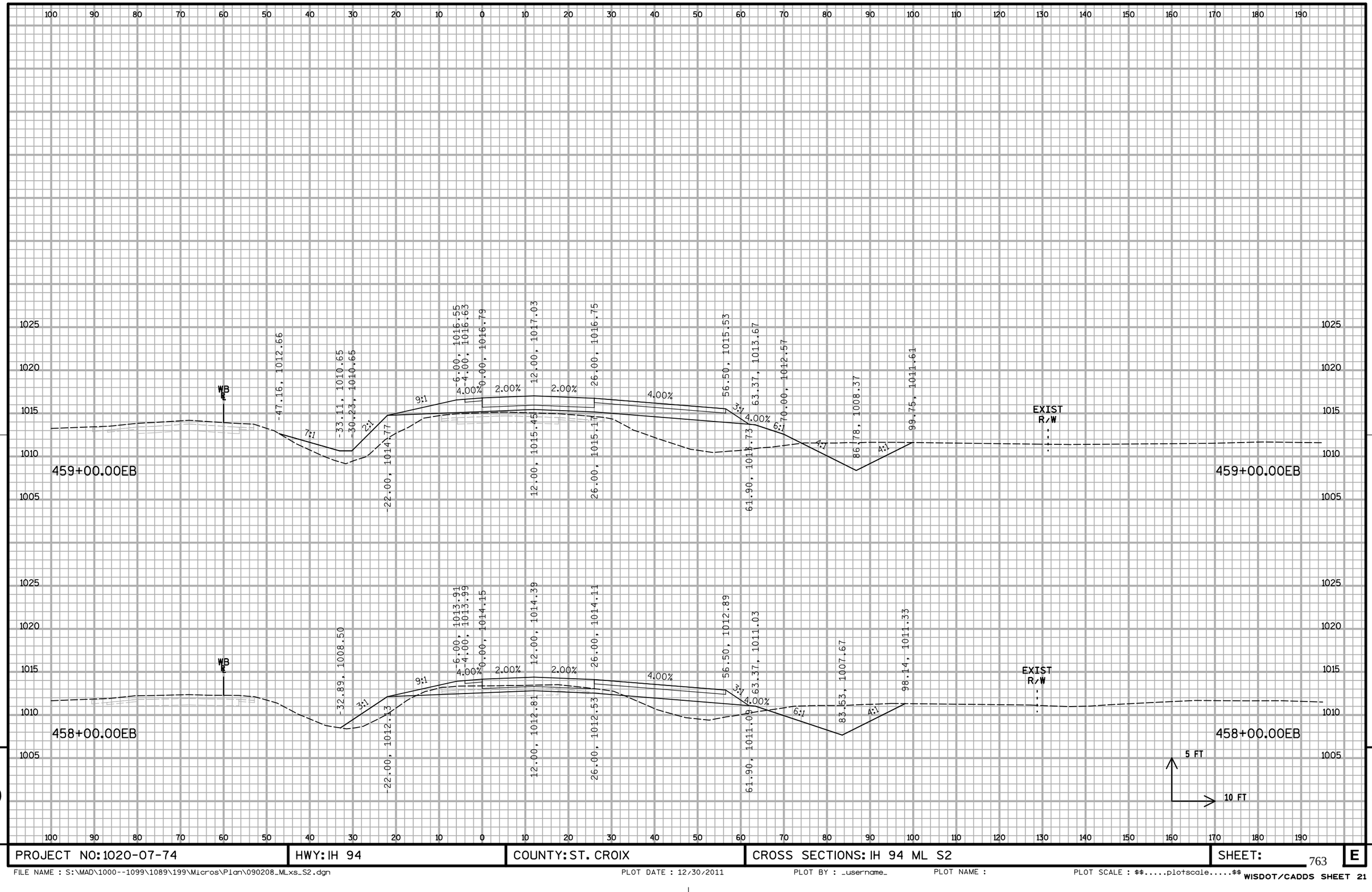


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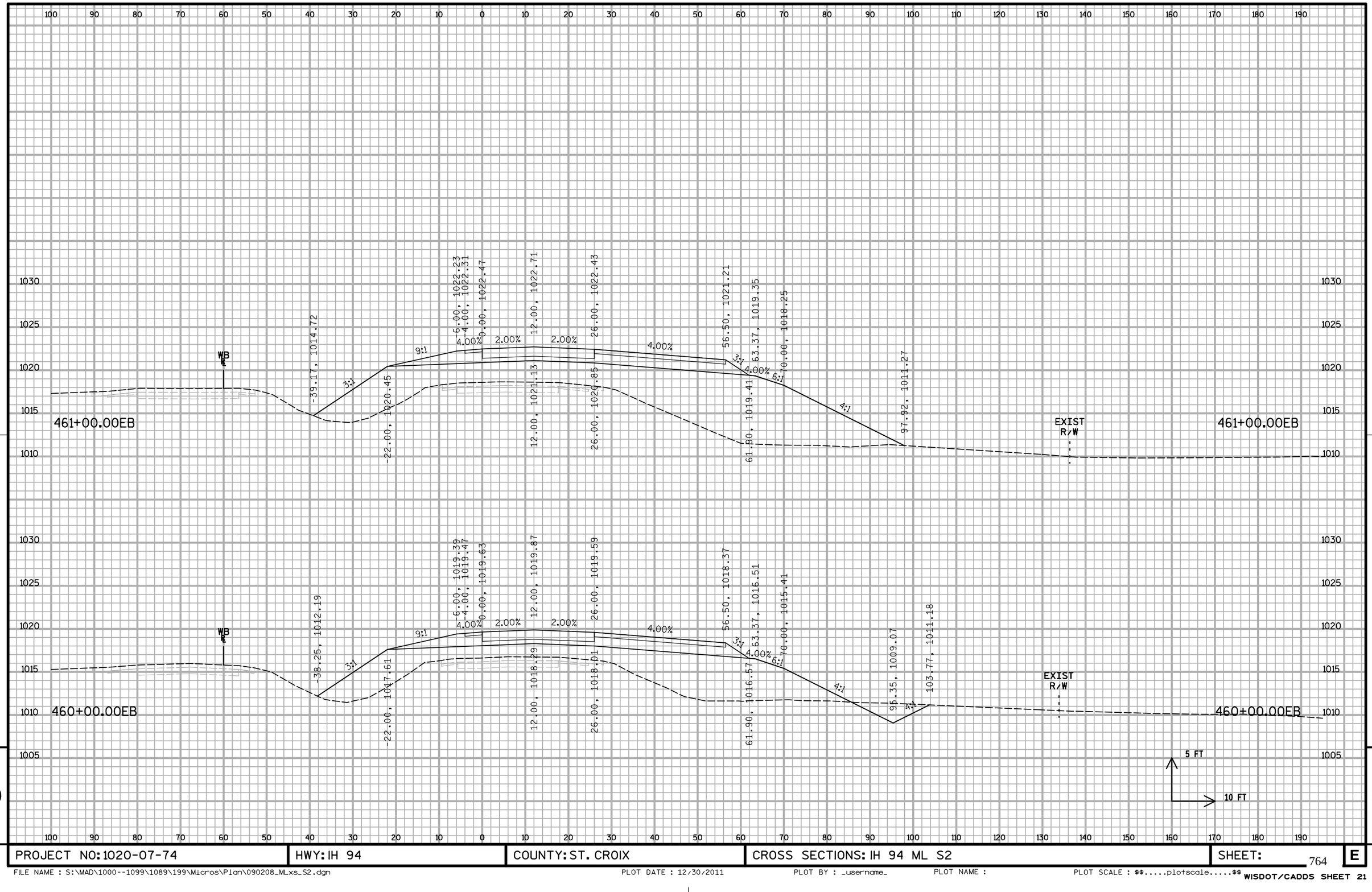
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090208_MLxs_S2.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090208_MLxs_S2.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

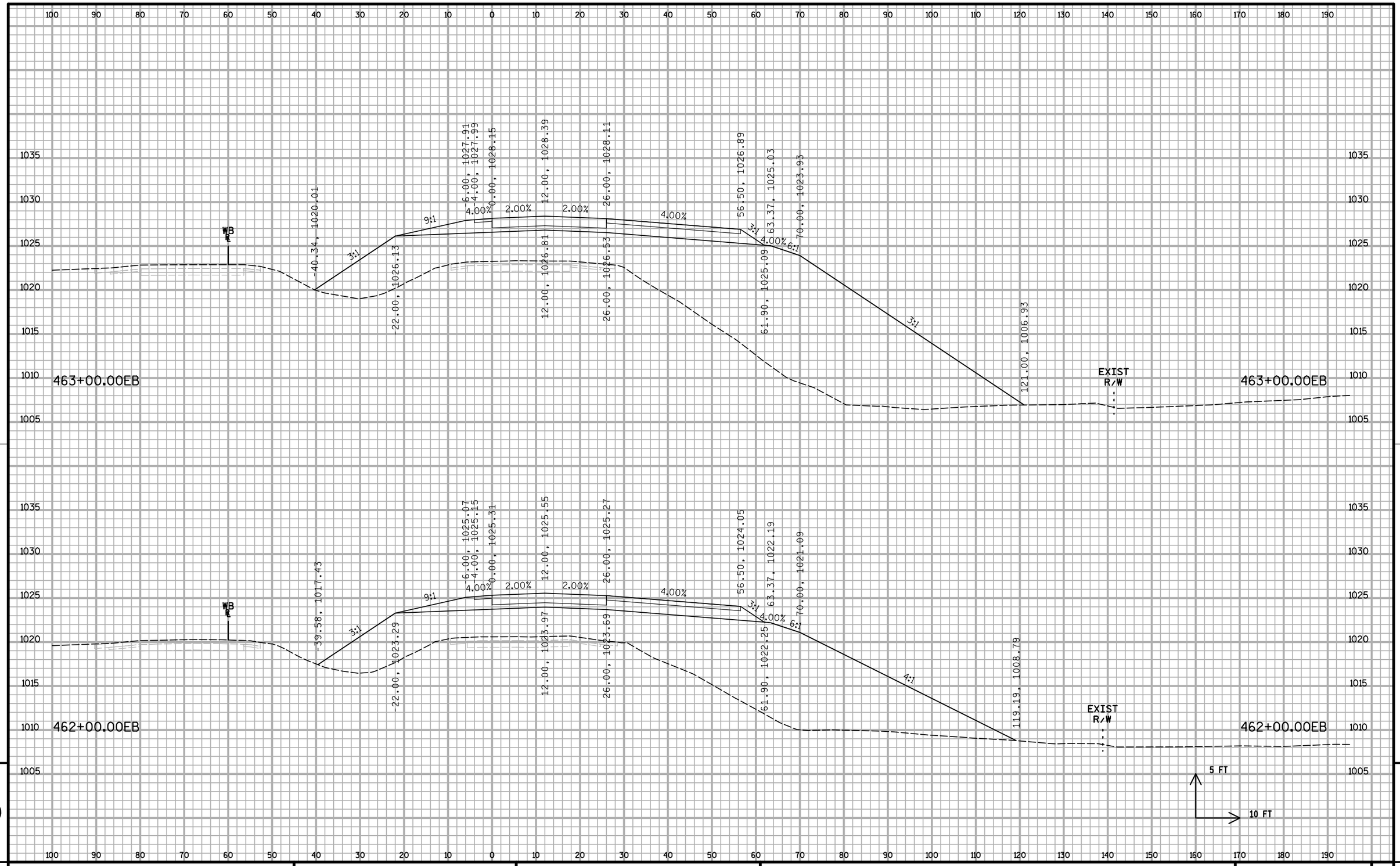


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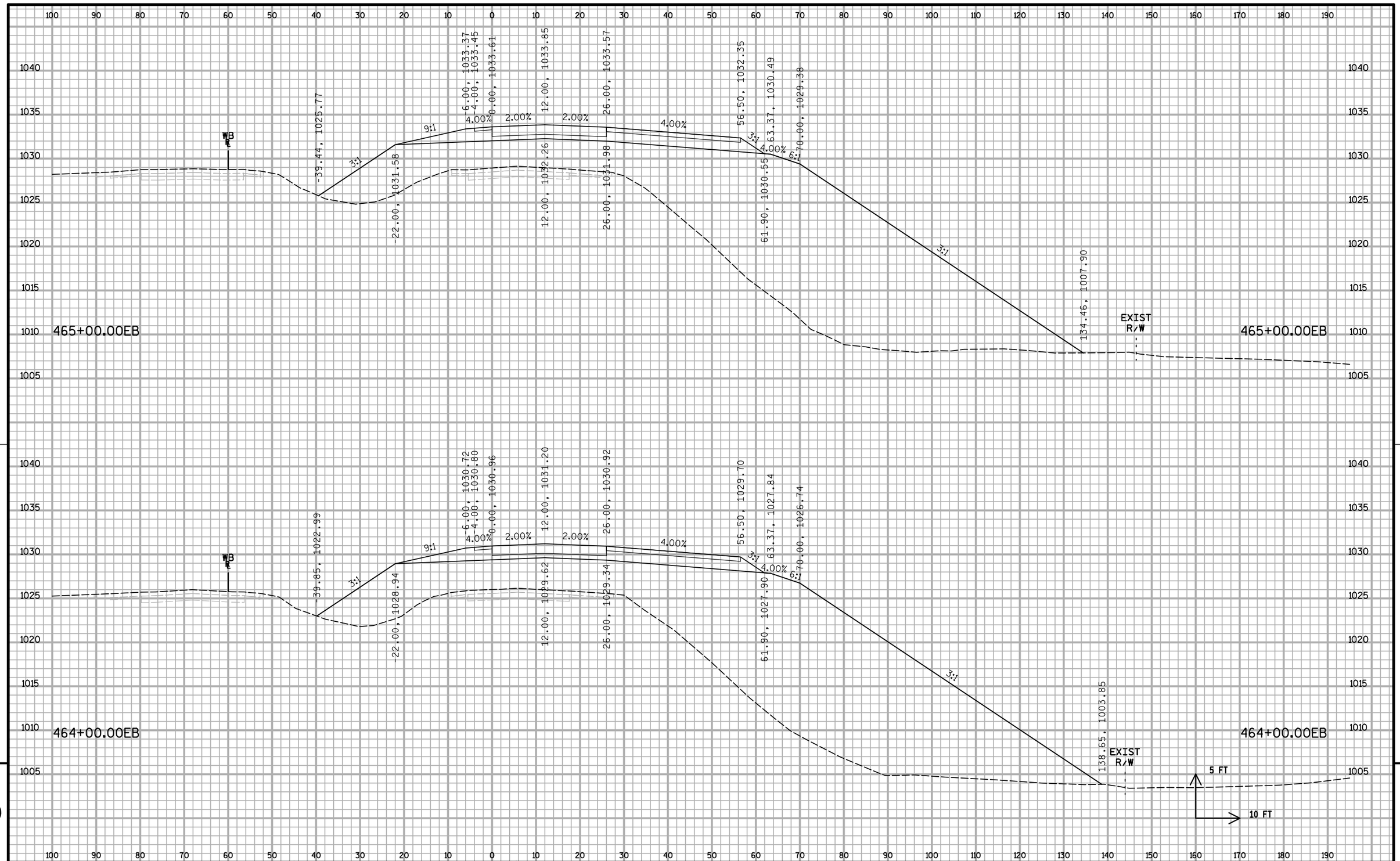
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090208_MLxs_S2.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090208_MLxs_S2.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

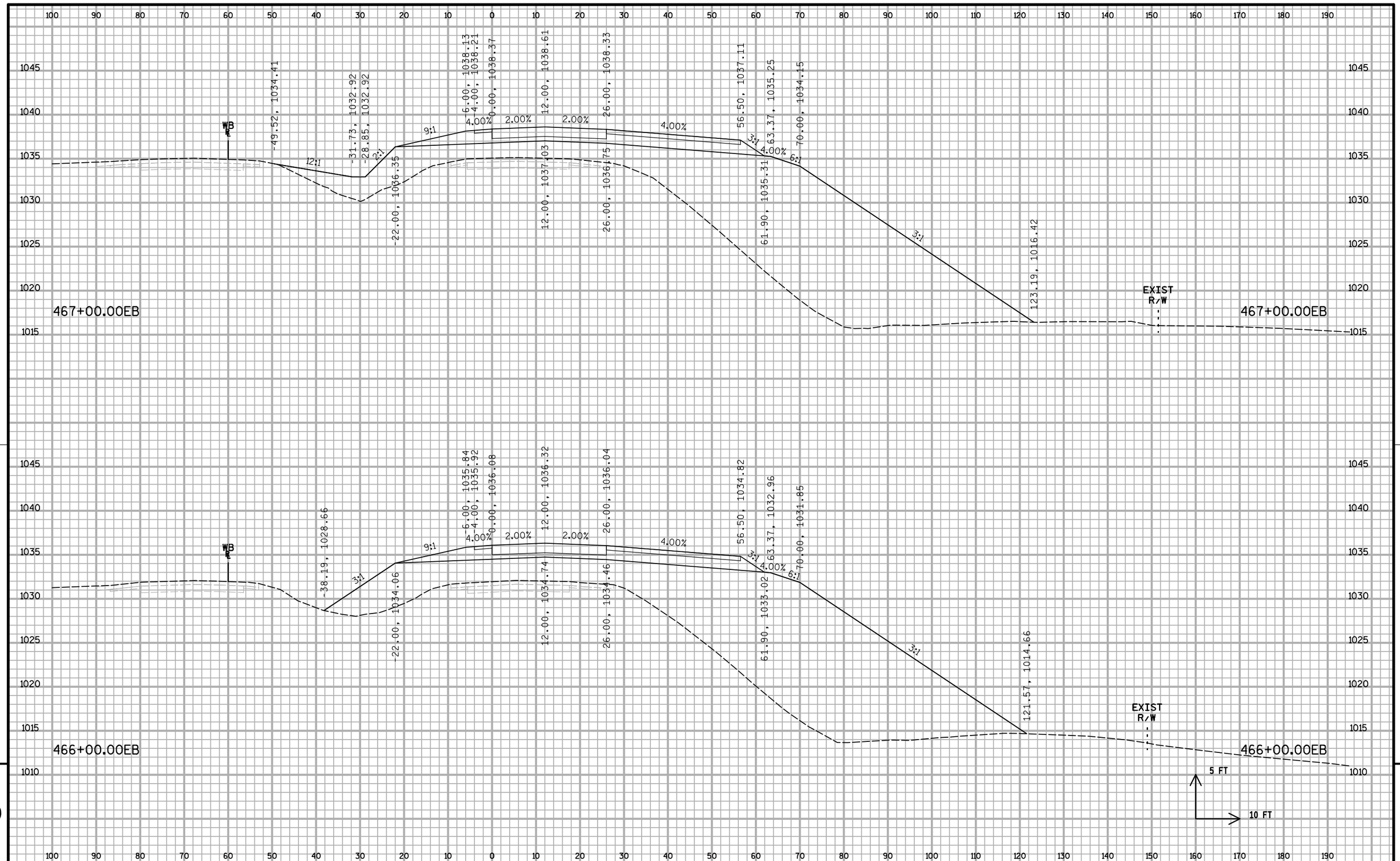


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET:	E

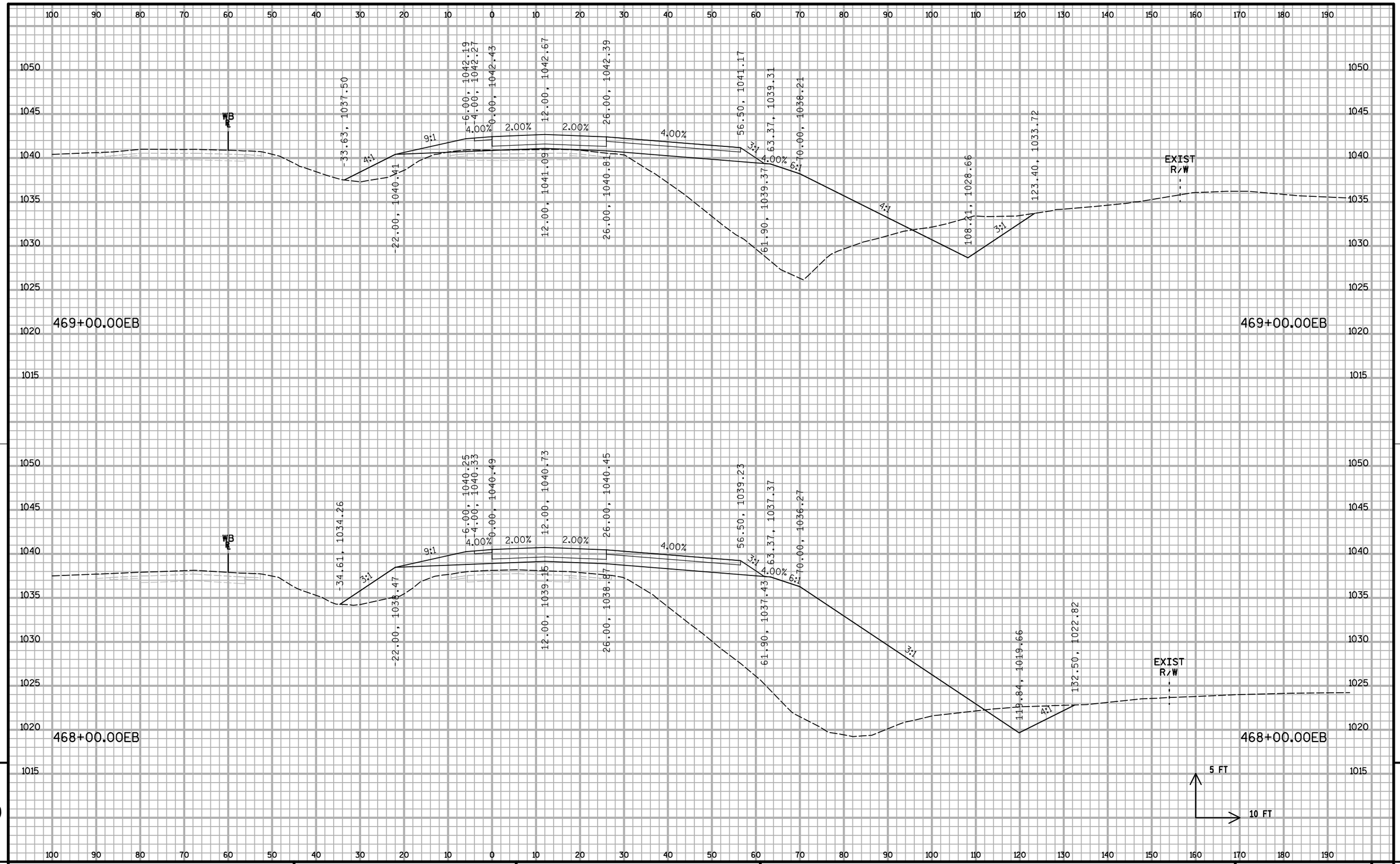
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090208_MLxs_S2.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

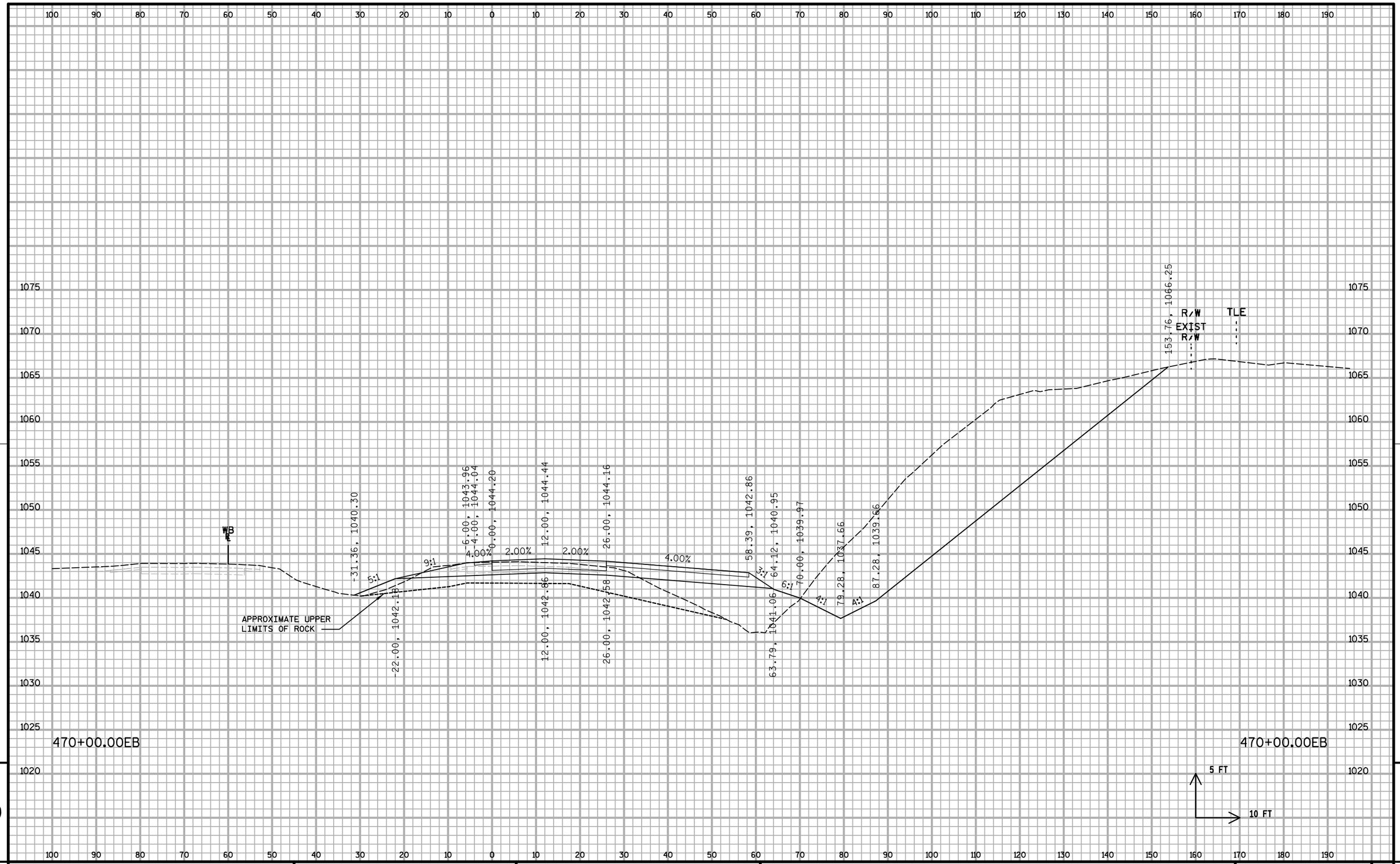


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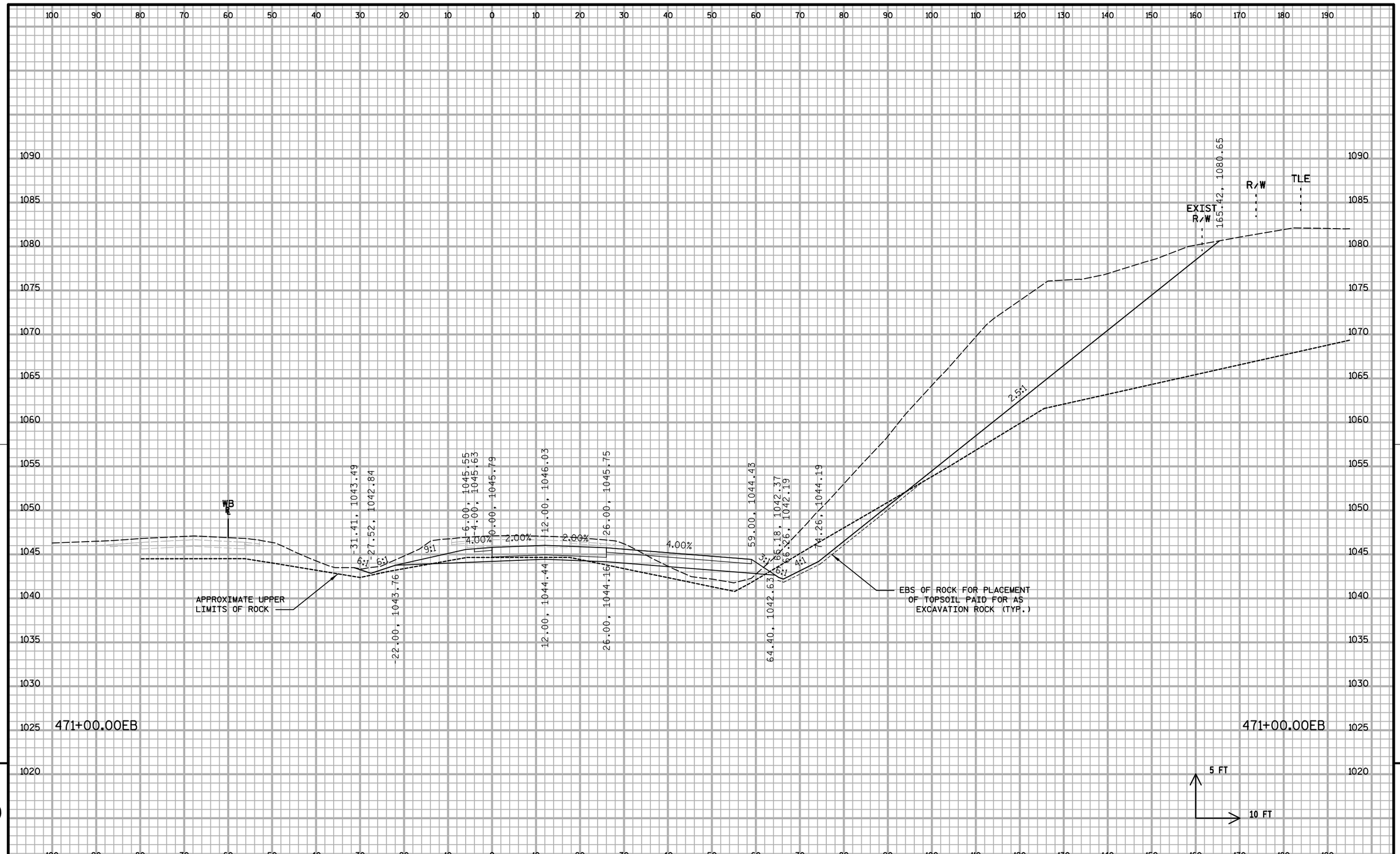
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090208_MLxs_S2.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

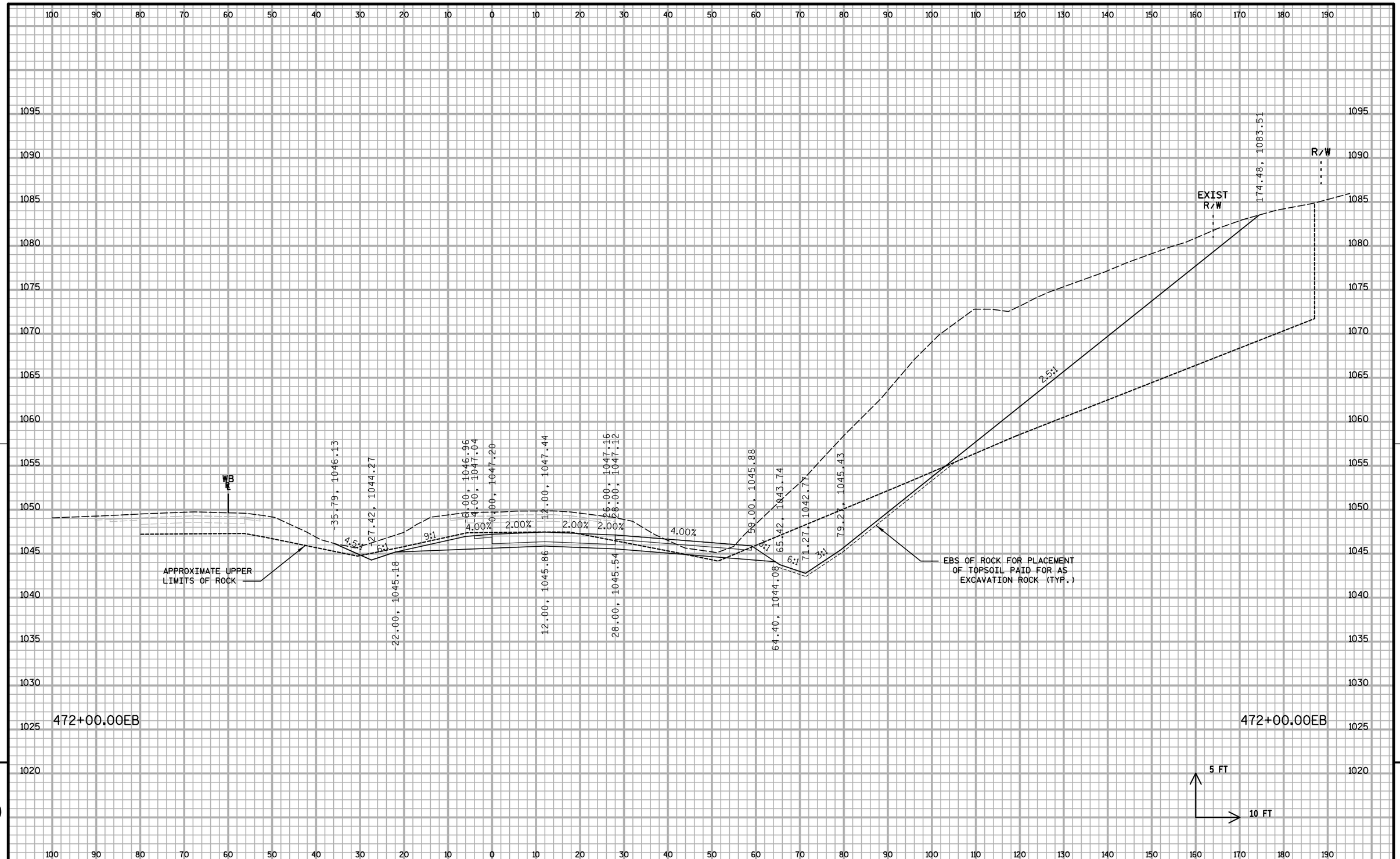


PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090208_MLxs_S2.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET: 770	E

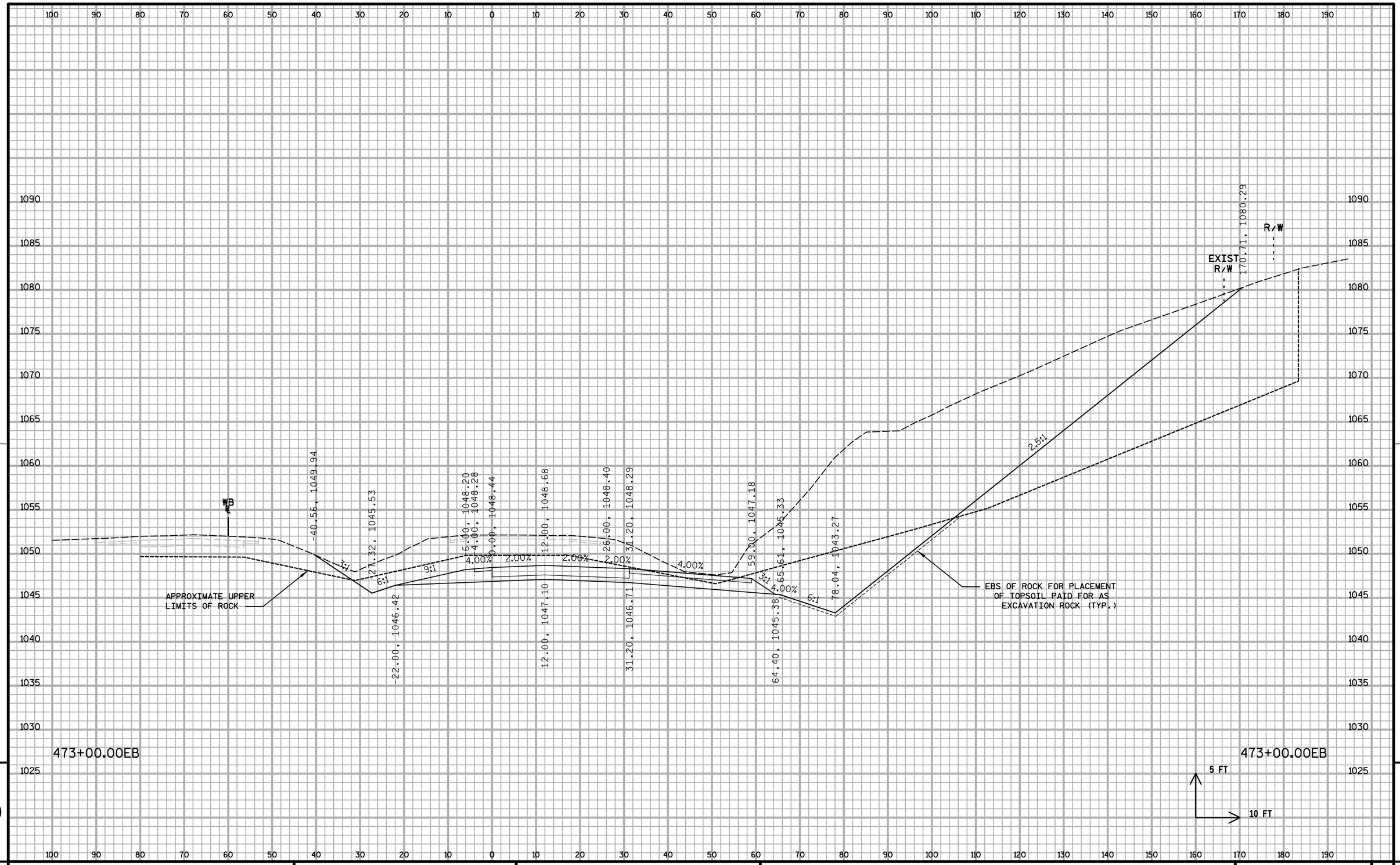


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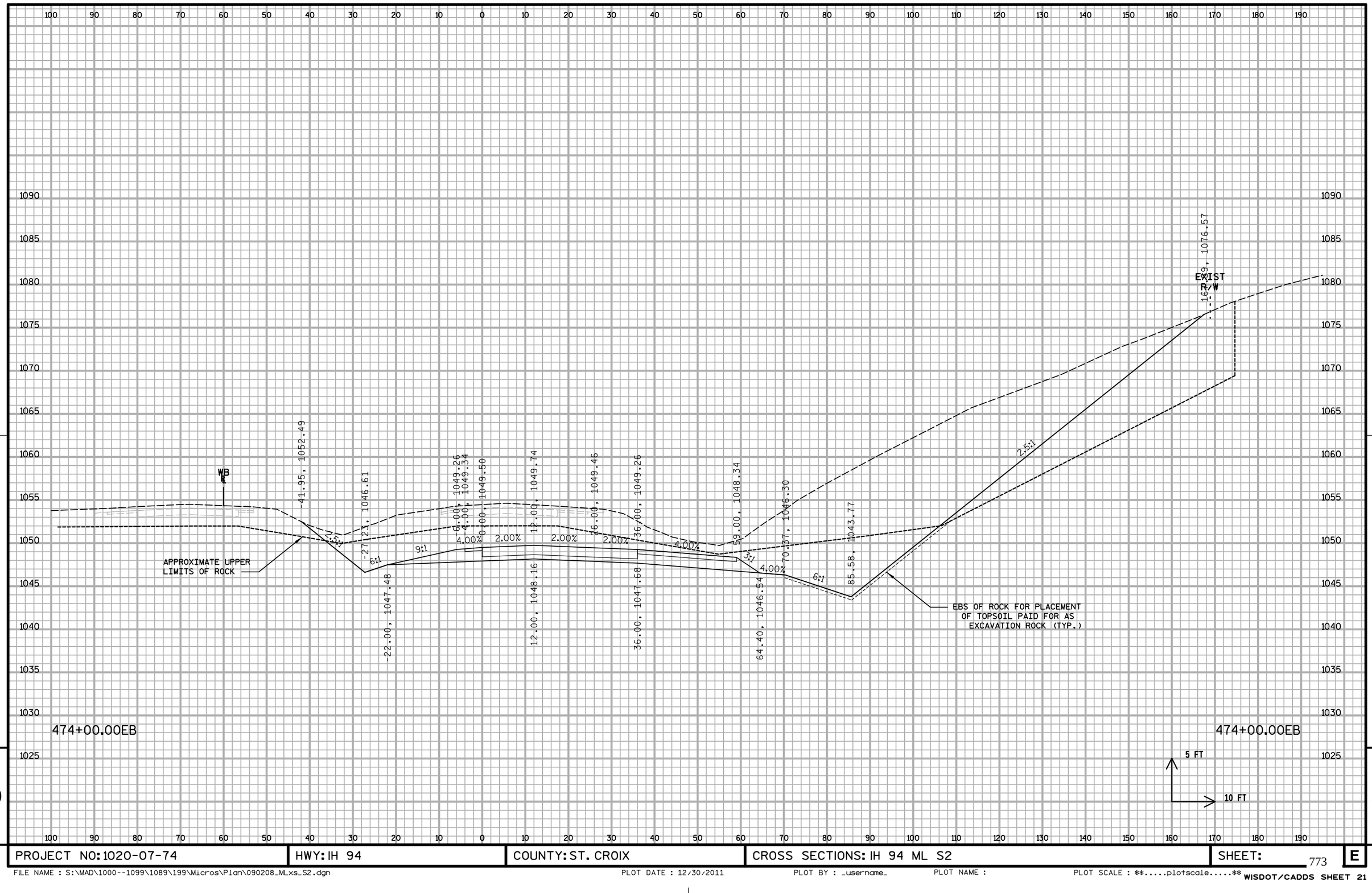
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090208_MLxs_S2.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



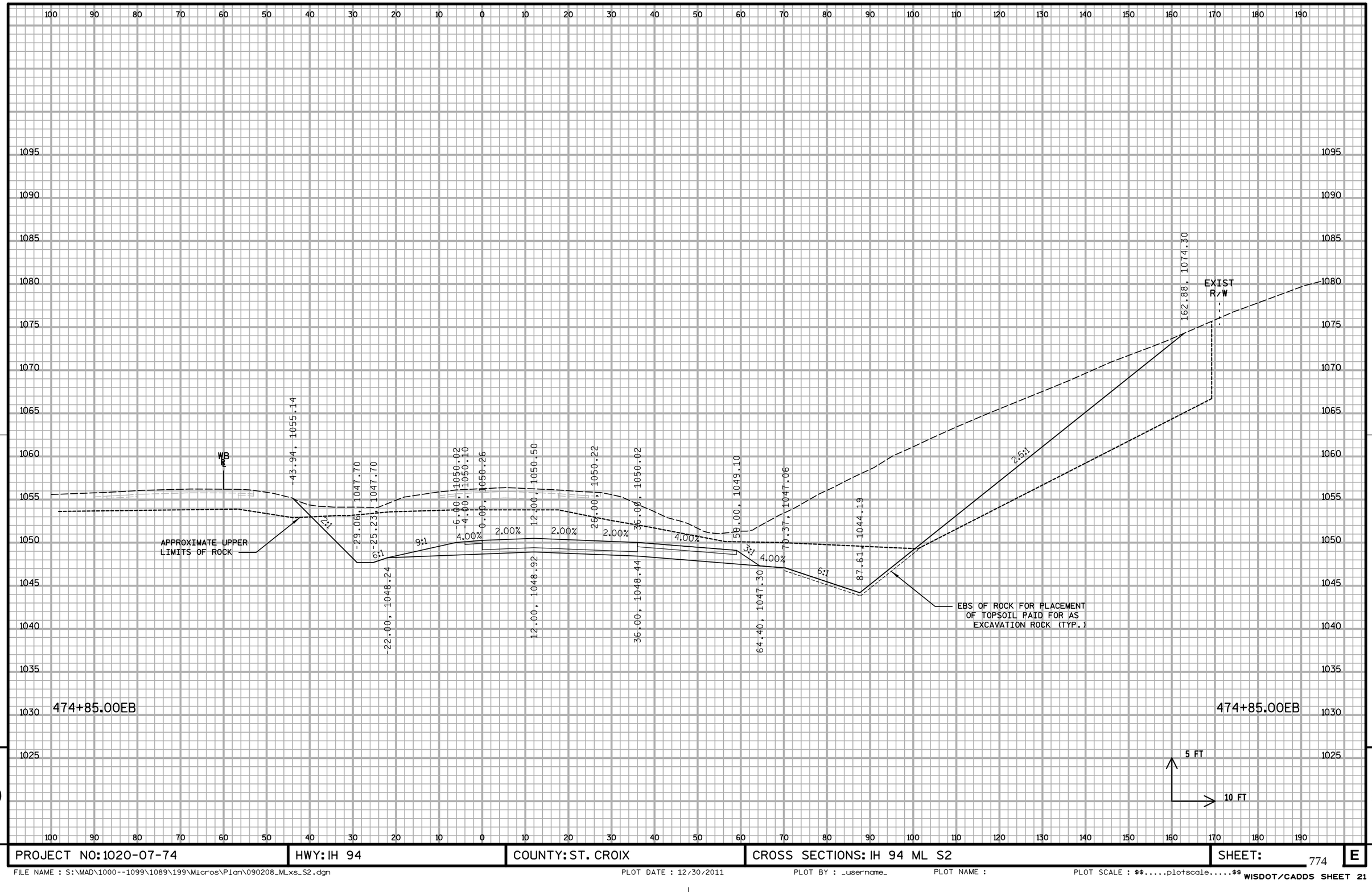
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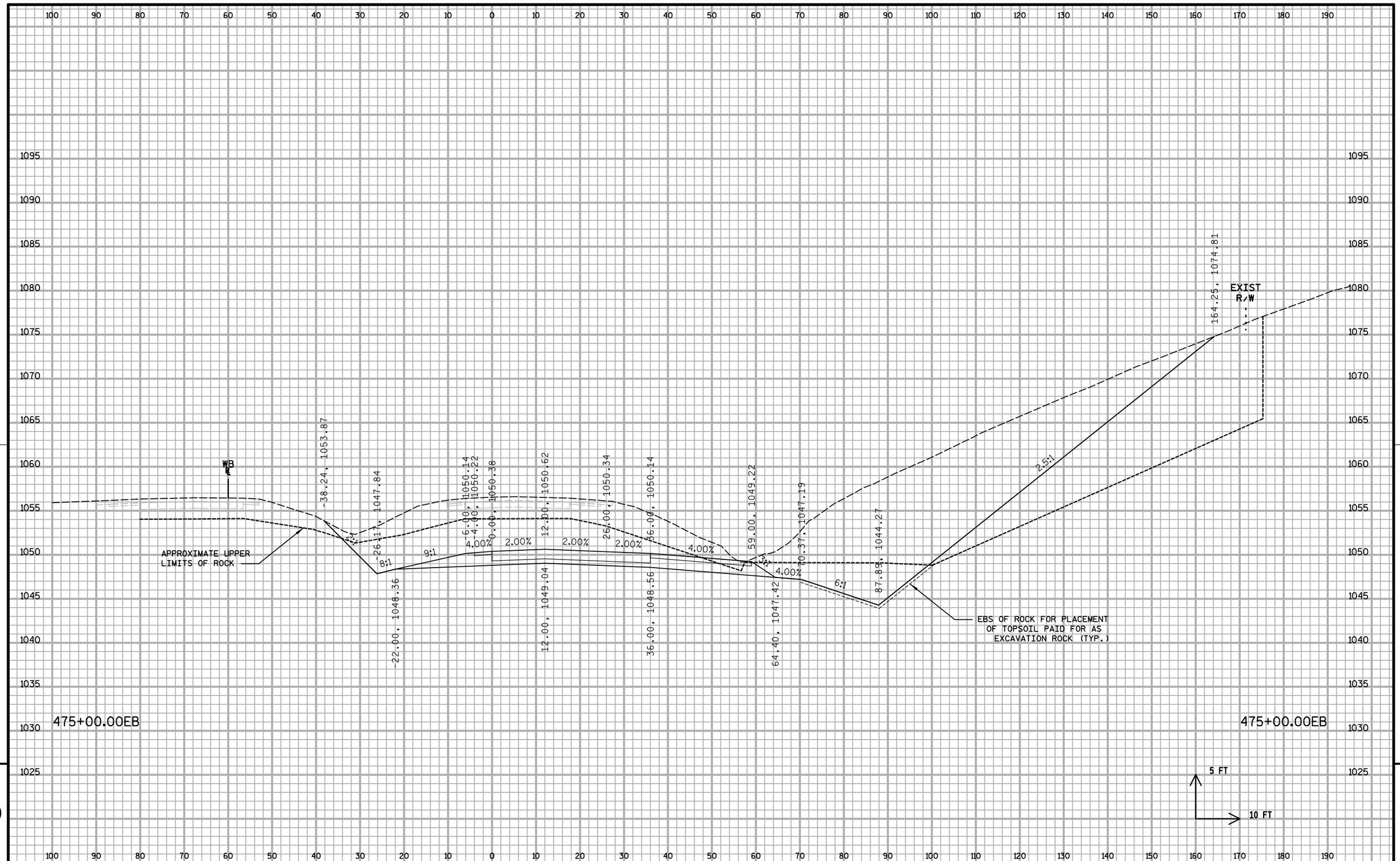
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090208_MLxs_S2.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET: 774	E

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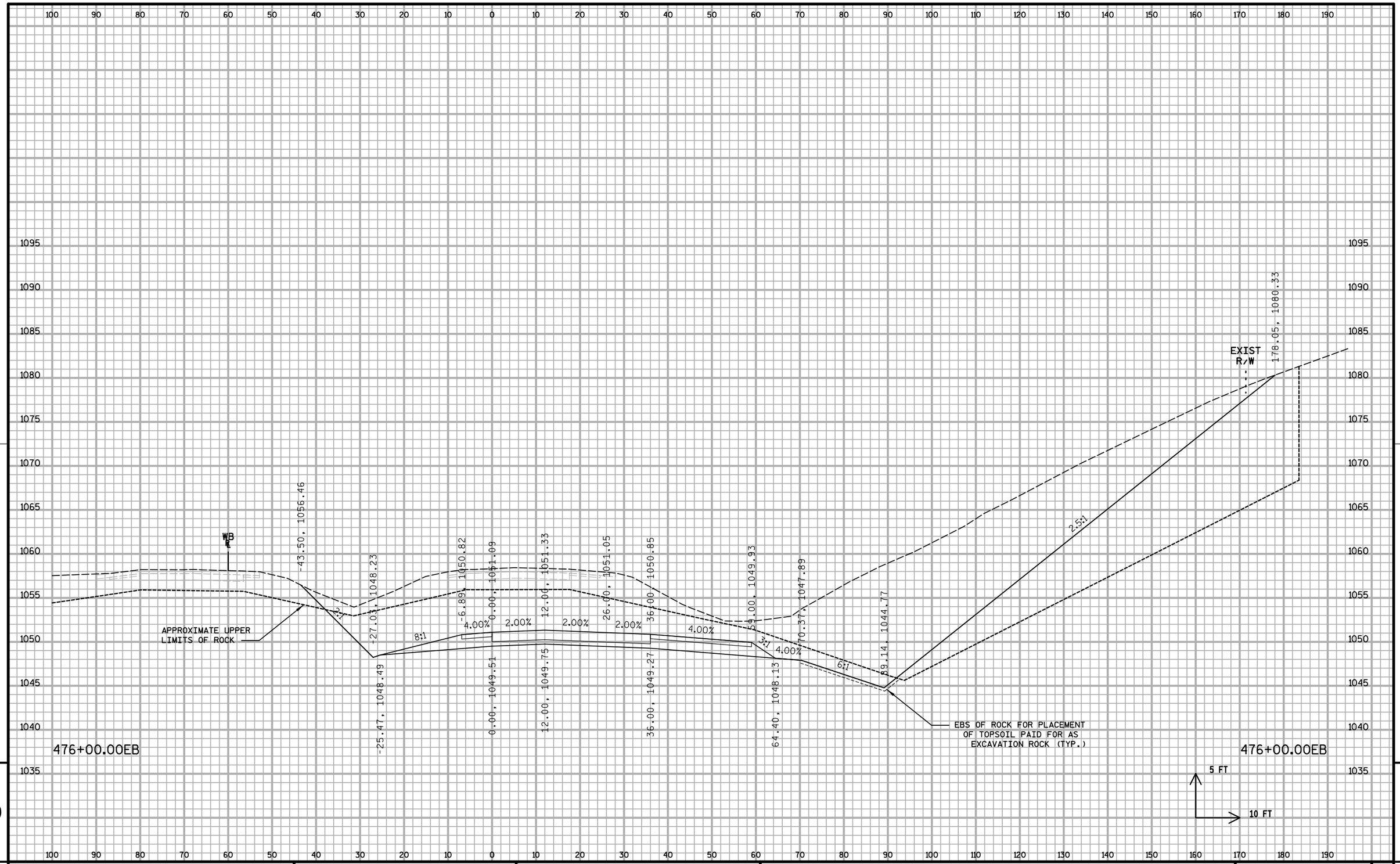
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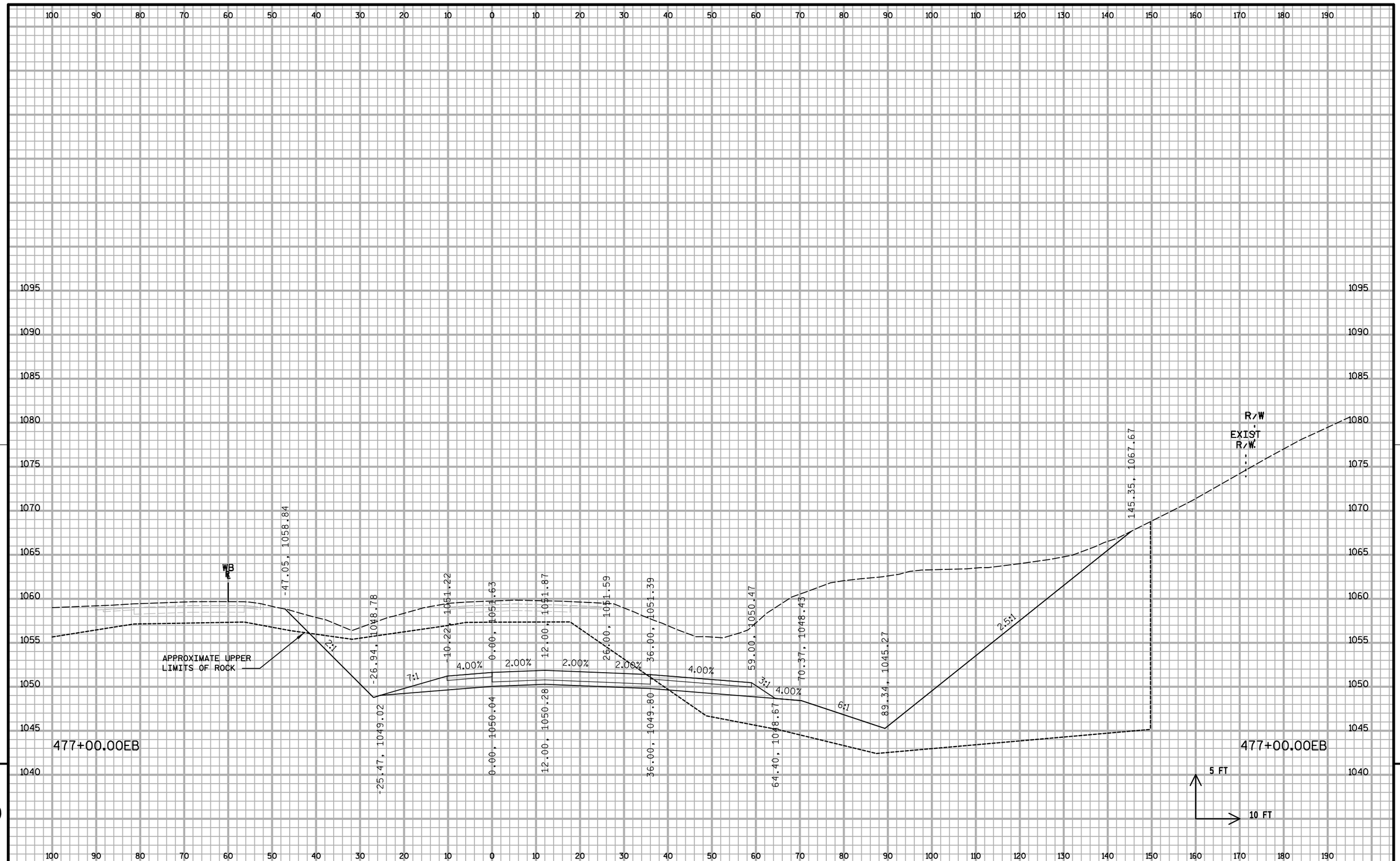
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WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090208_MLxs_S2.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



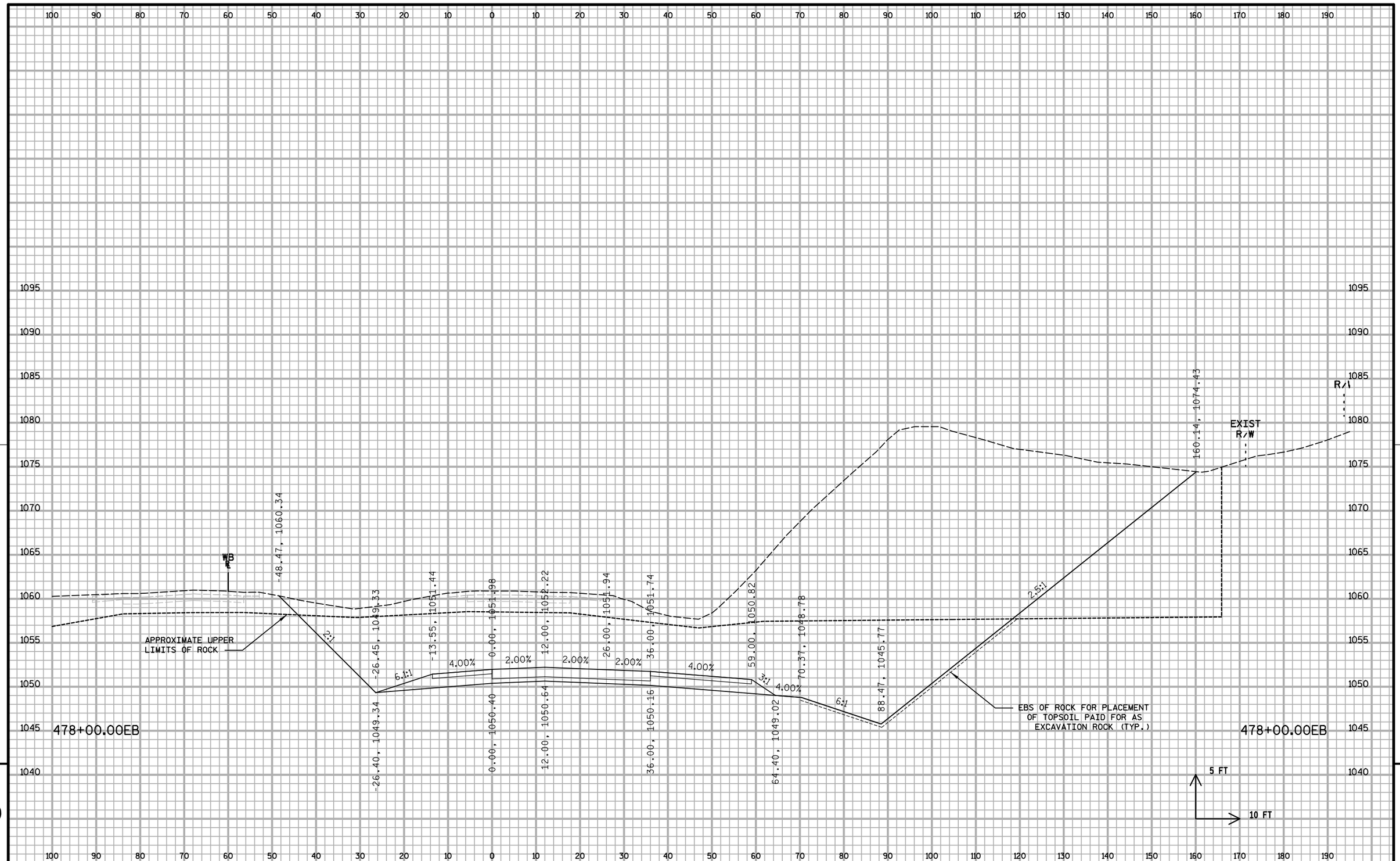
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WISDOT/CADDS SHEET 21

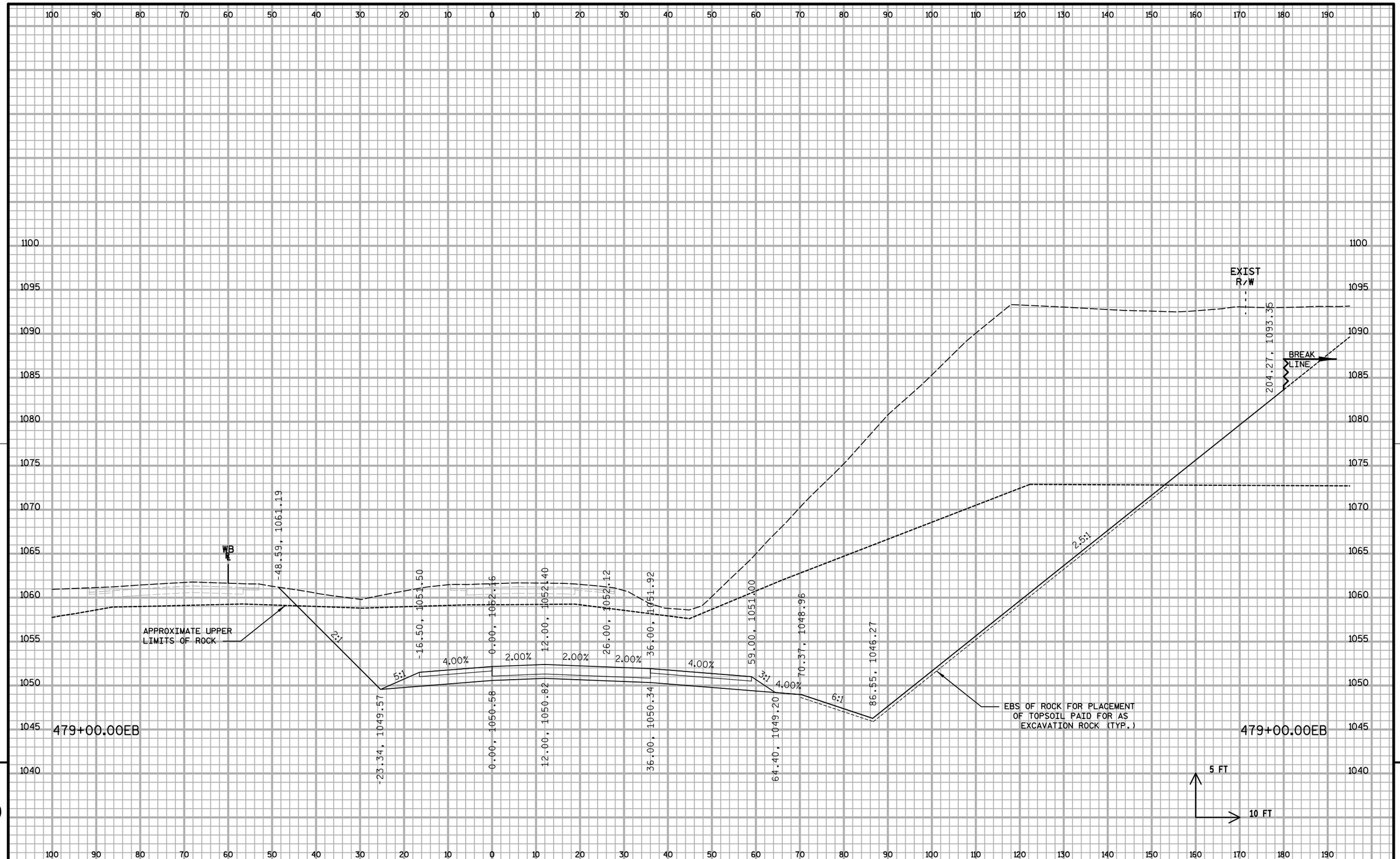


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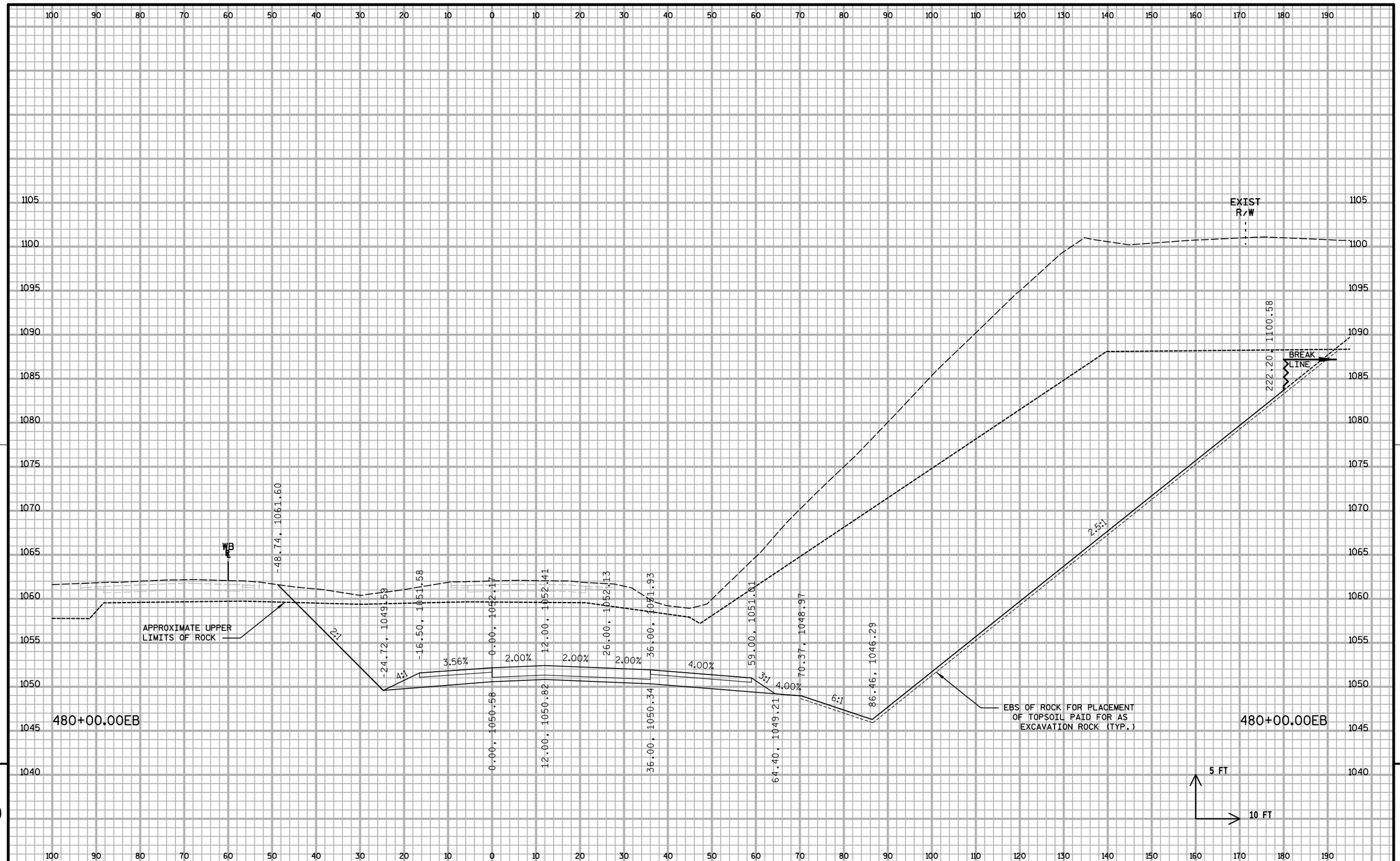
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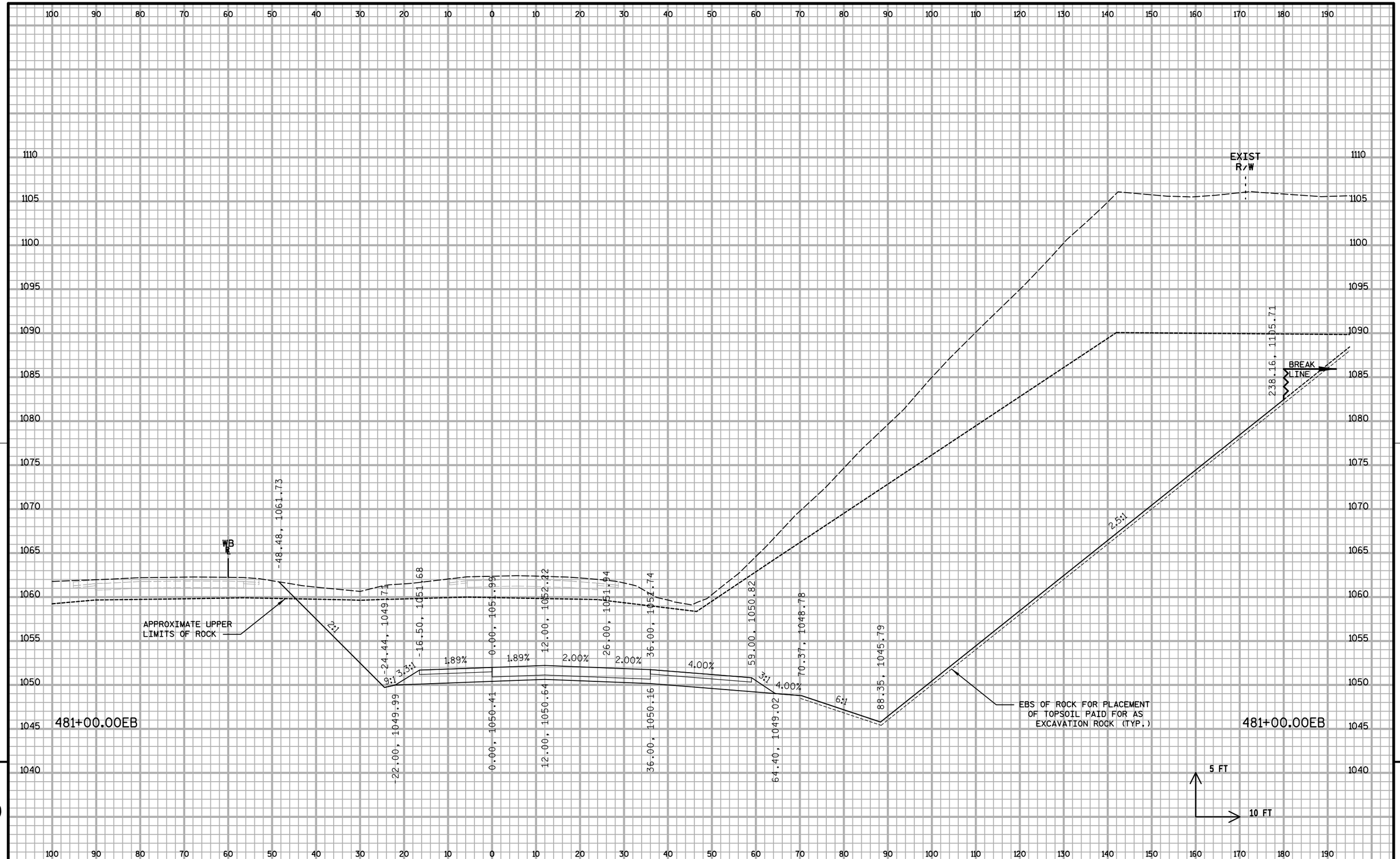


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET: 780 E

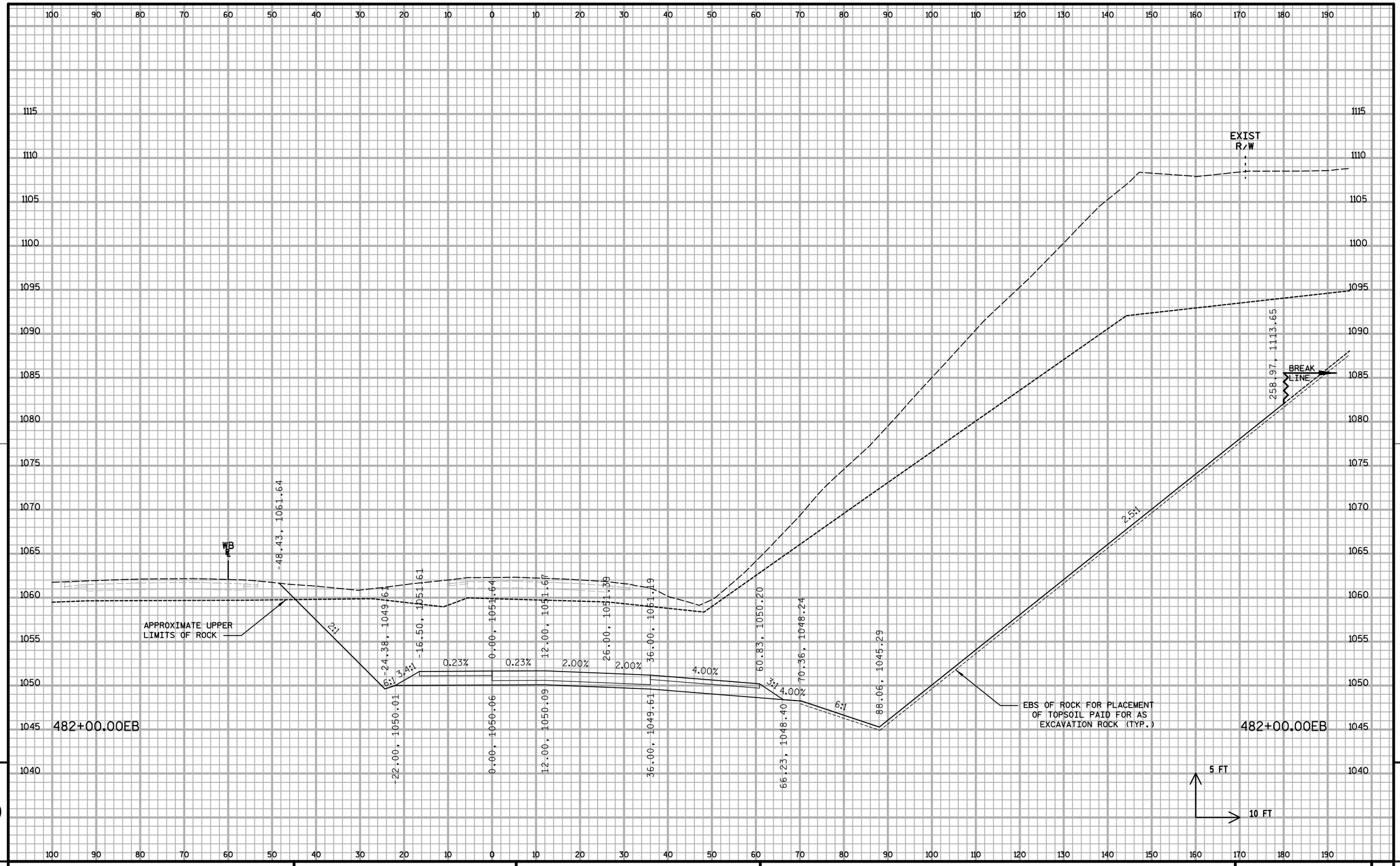


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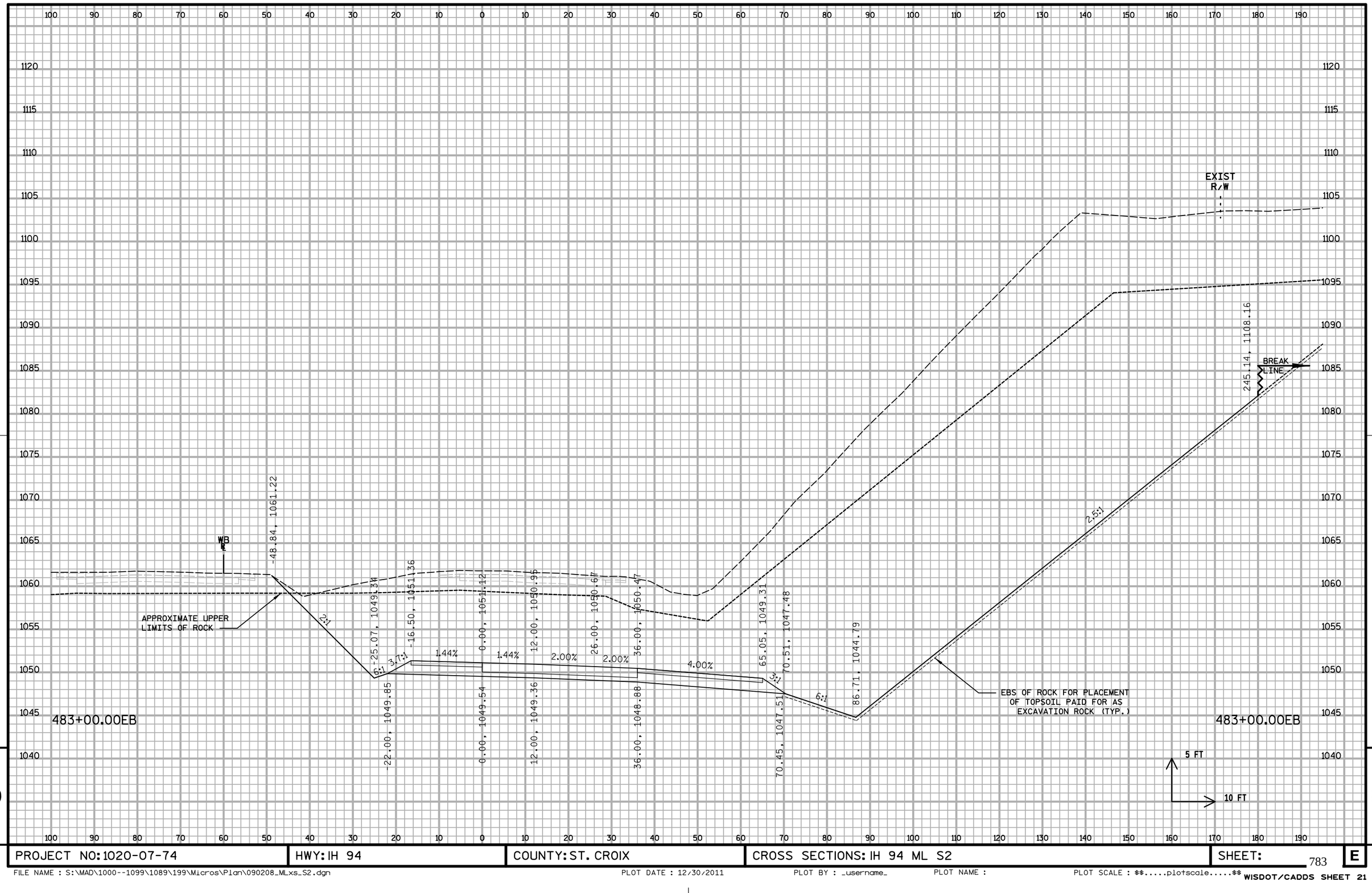
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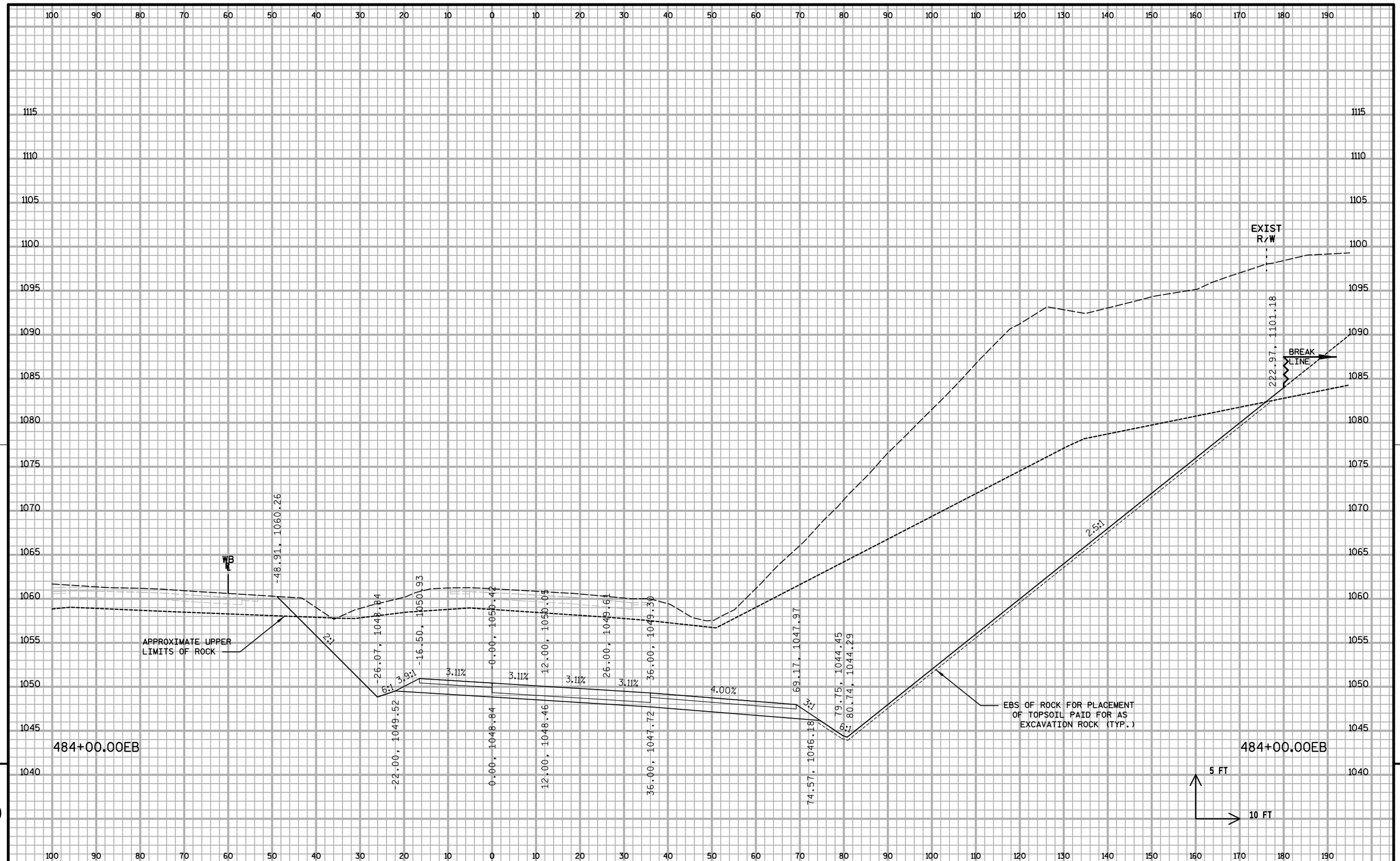
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET:	E

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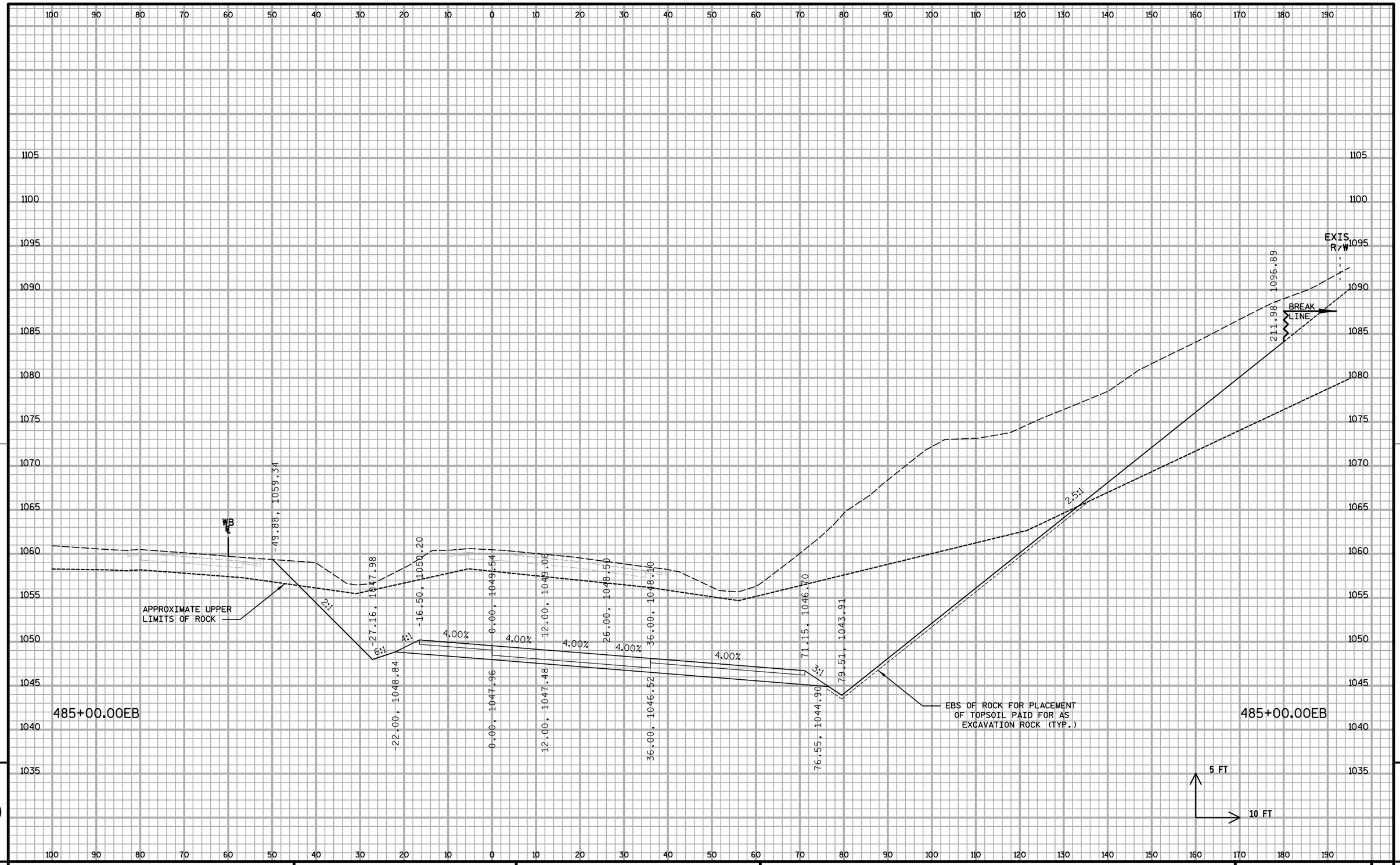


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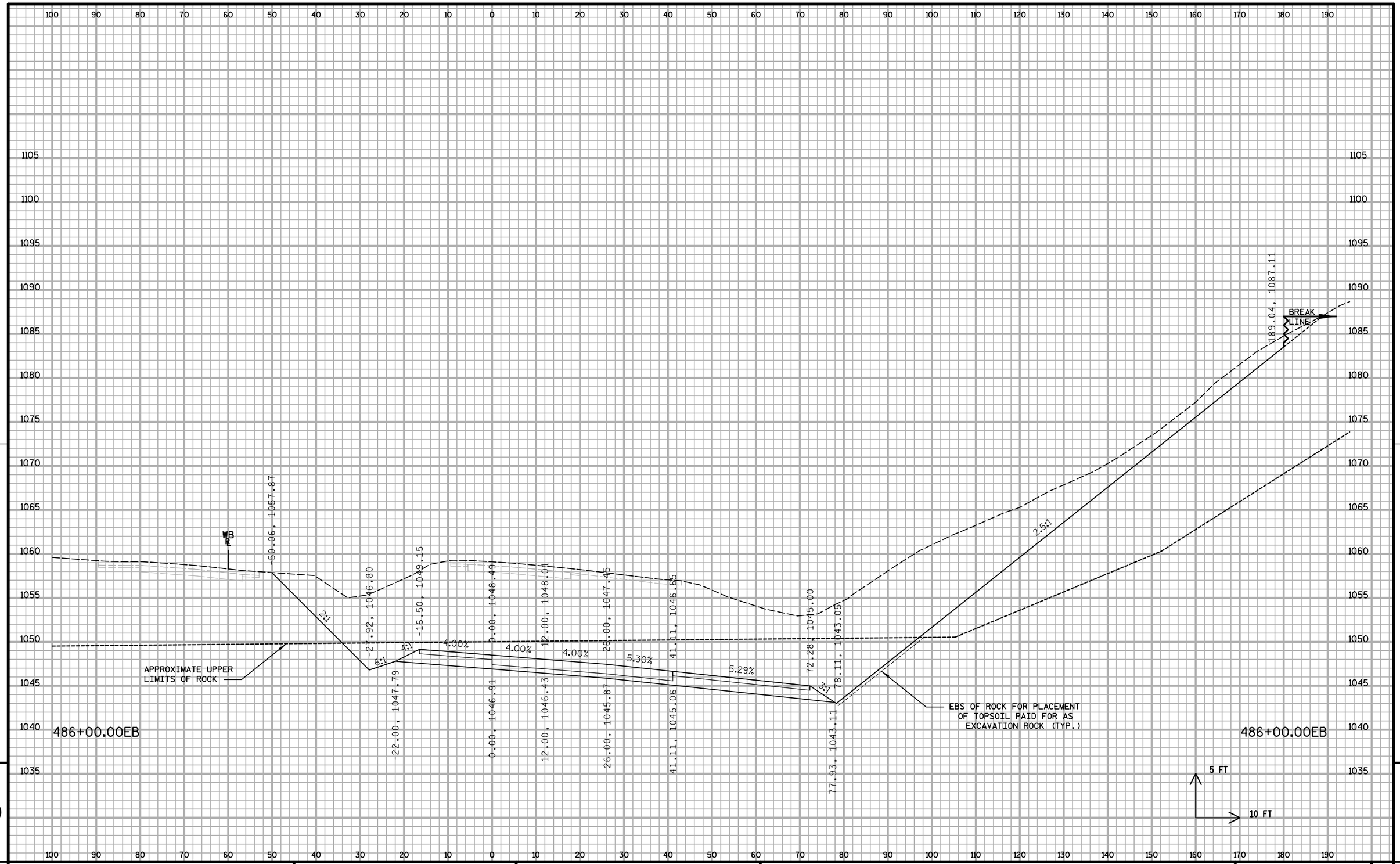
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET:	E

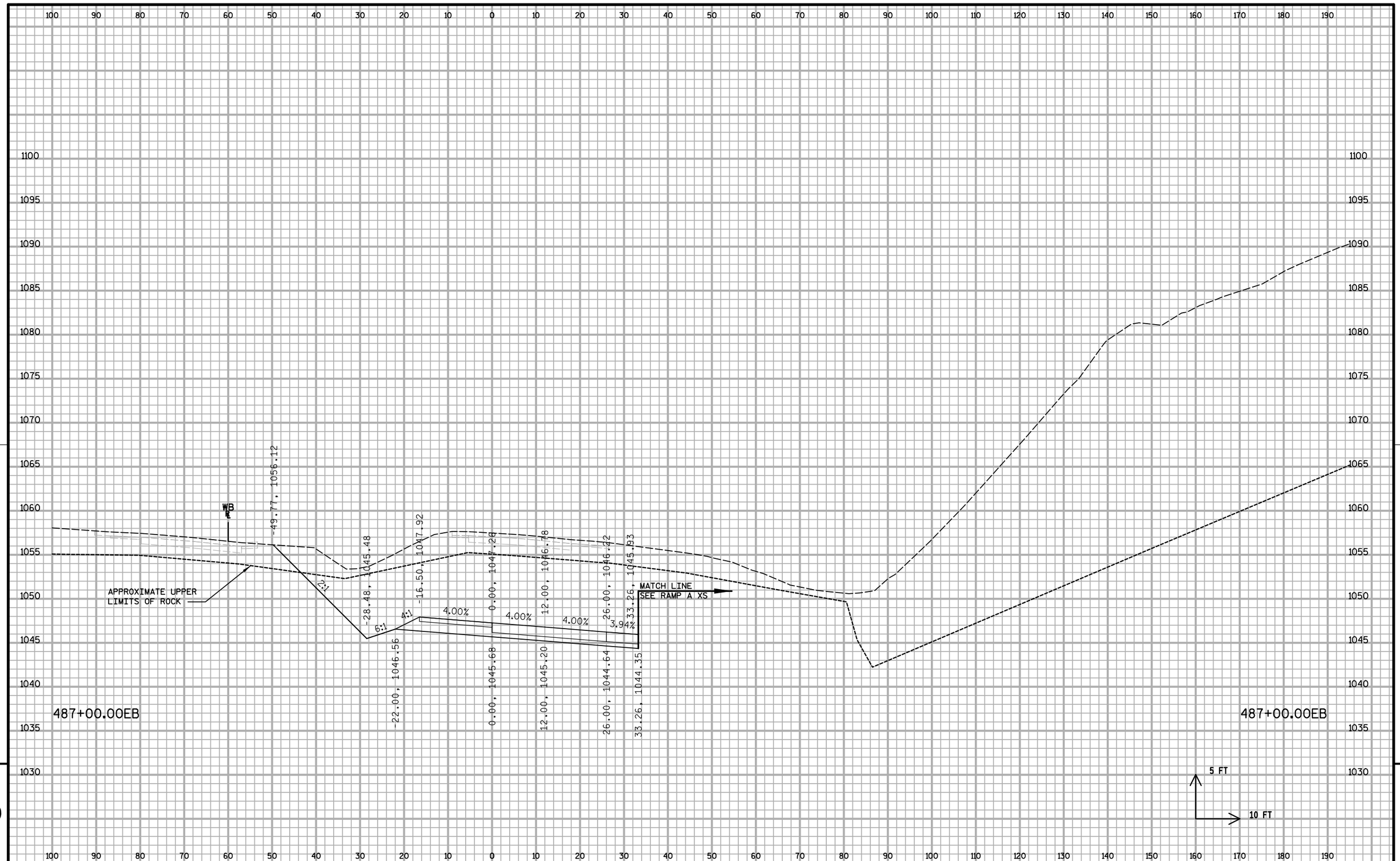
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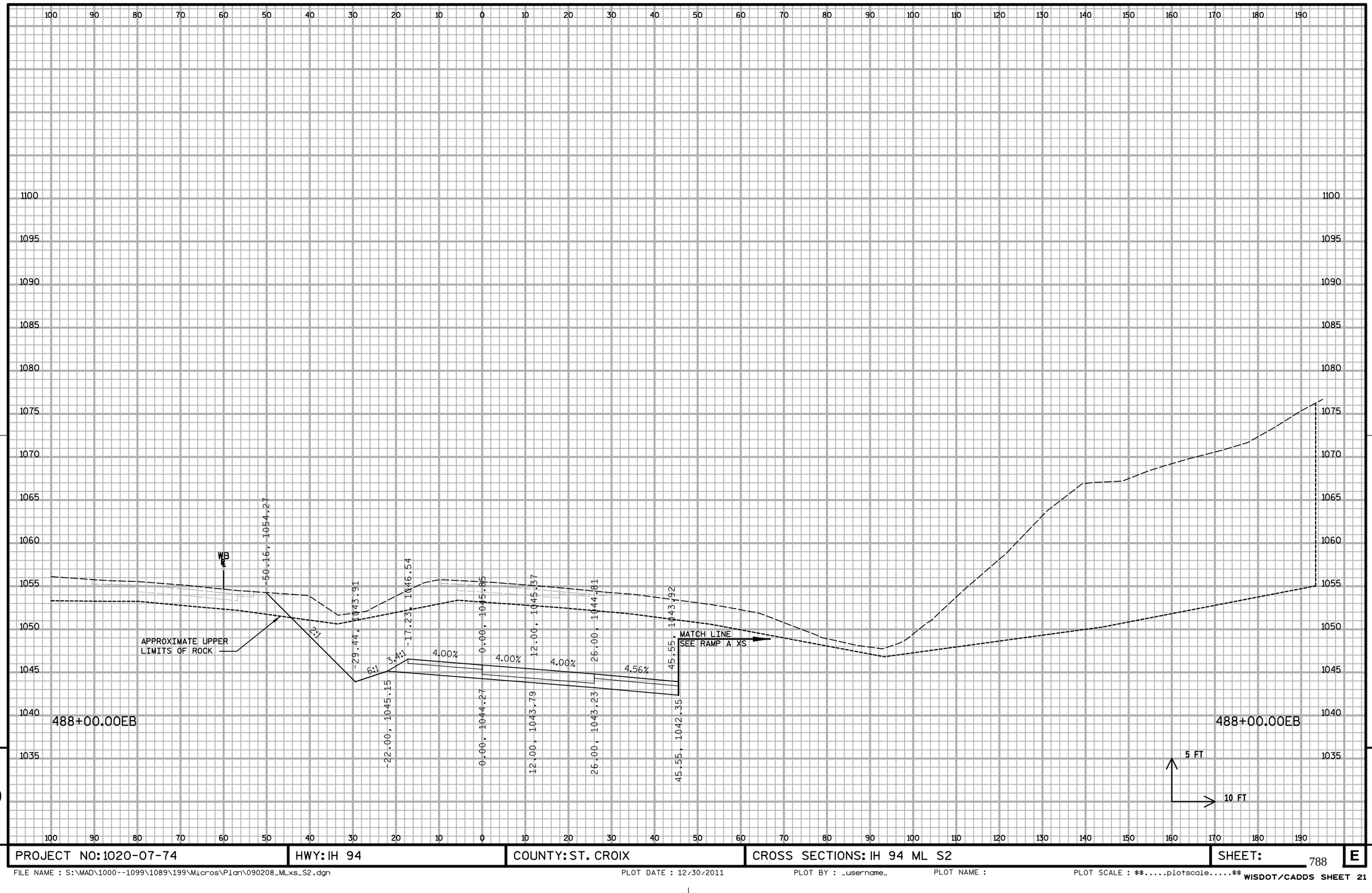
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET:	E

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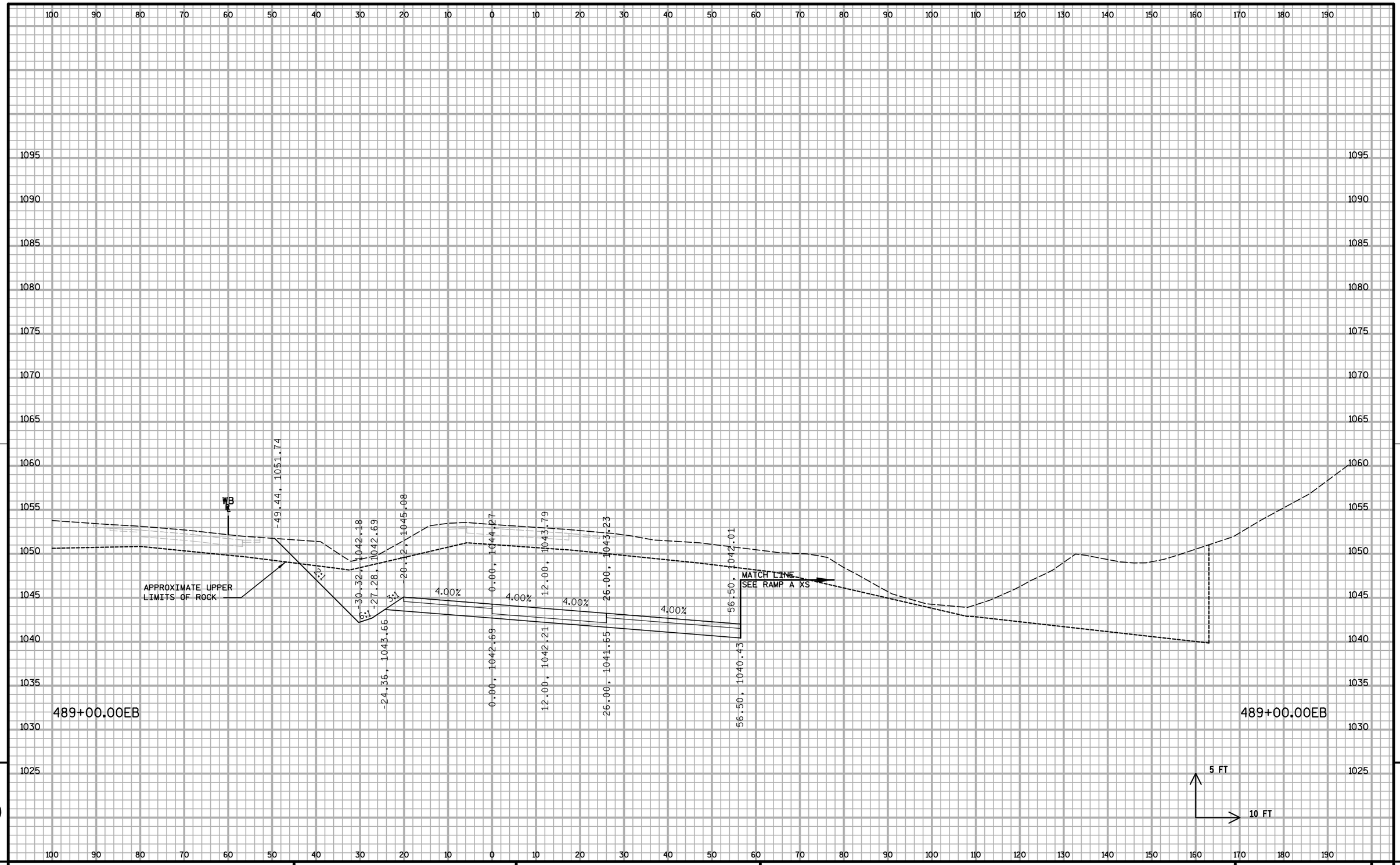


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET:	E

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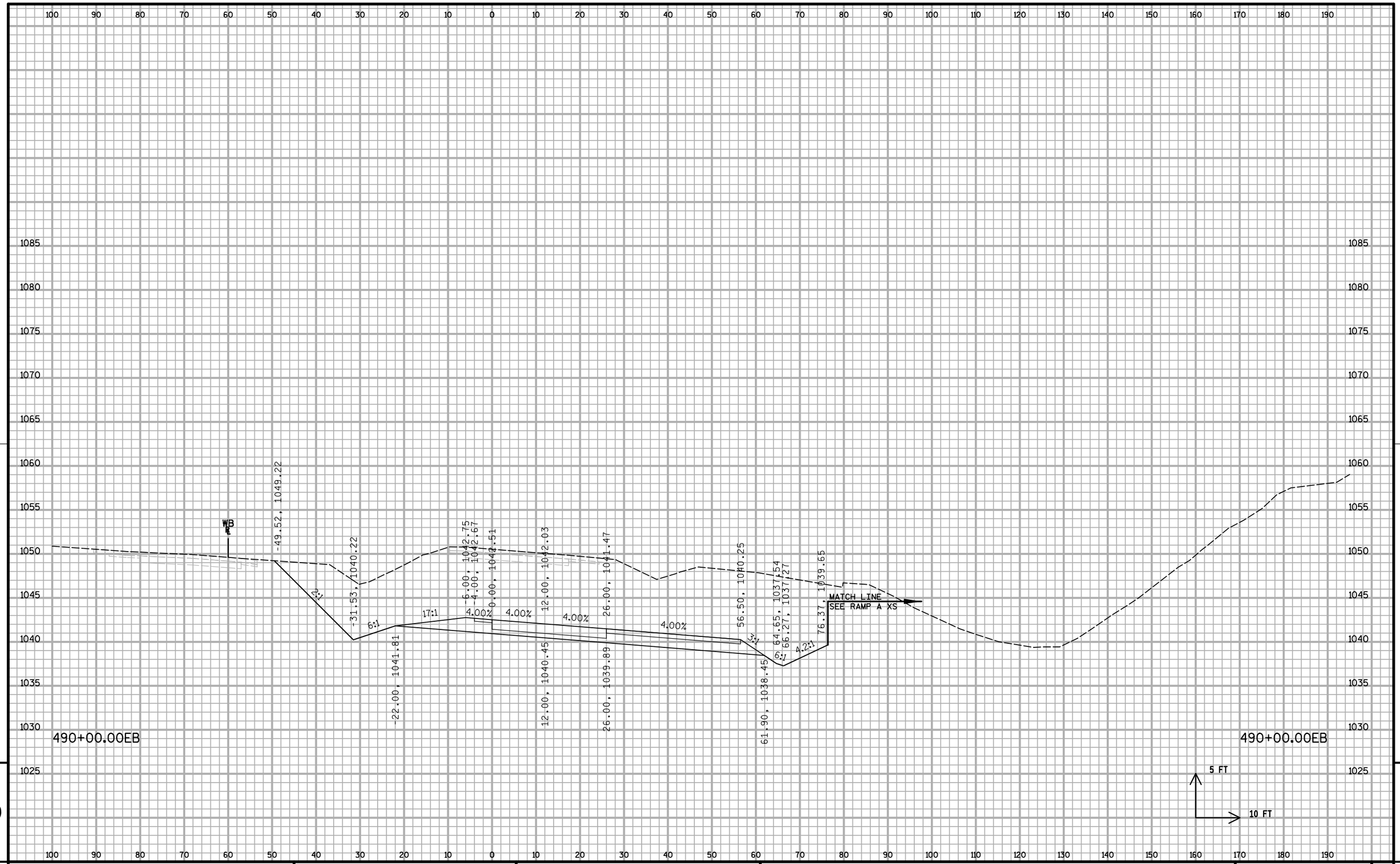
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET:	E

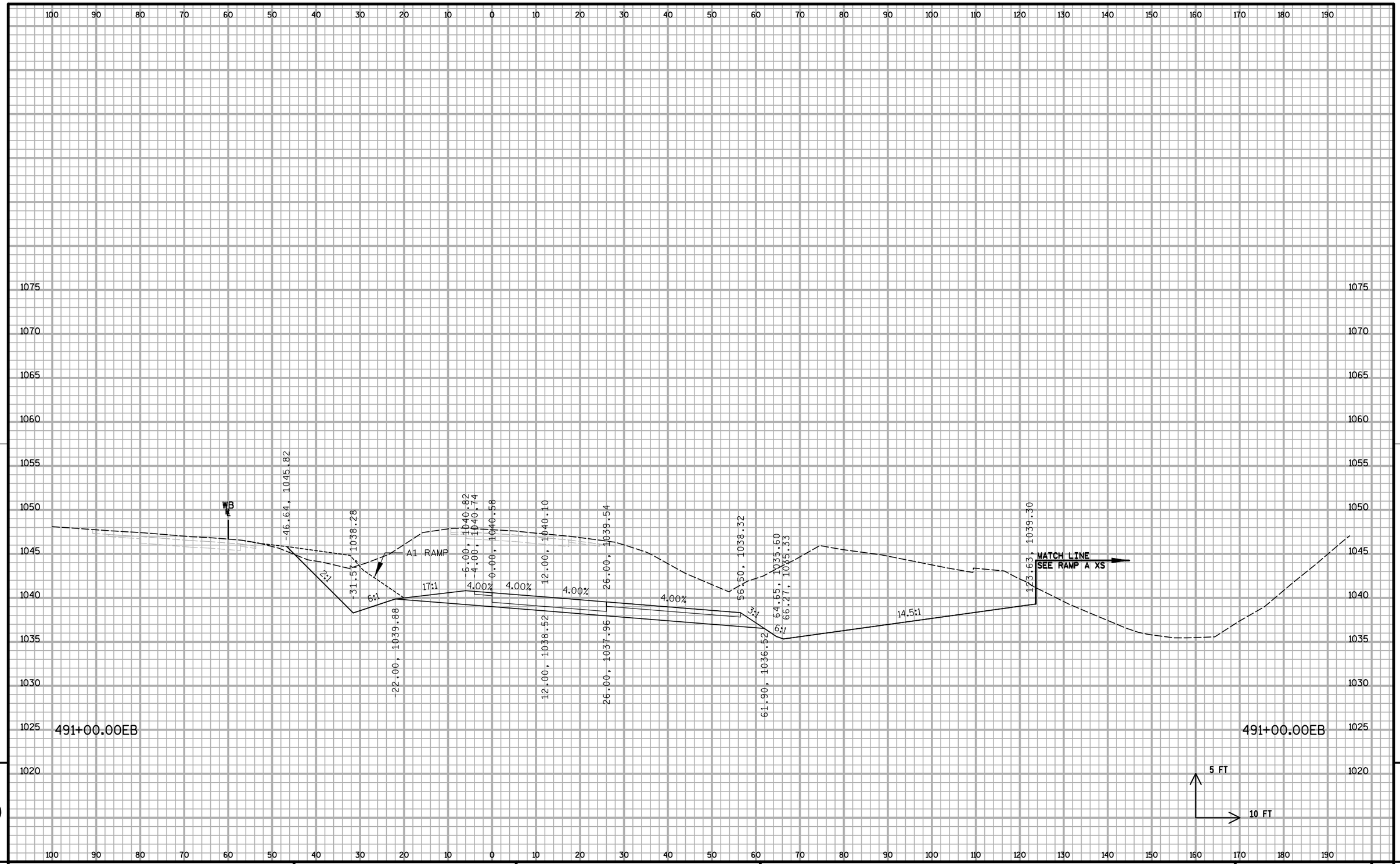
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WISDOT/CADDS SHEET 21



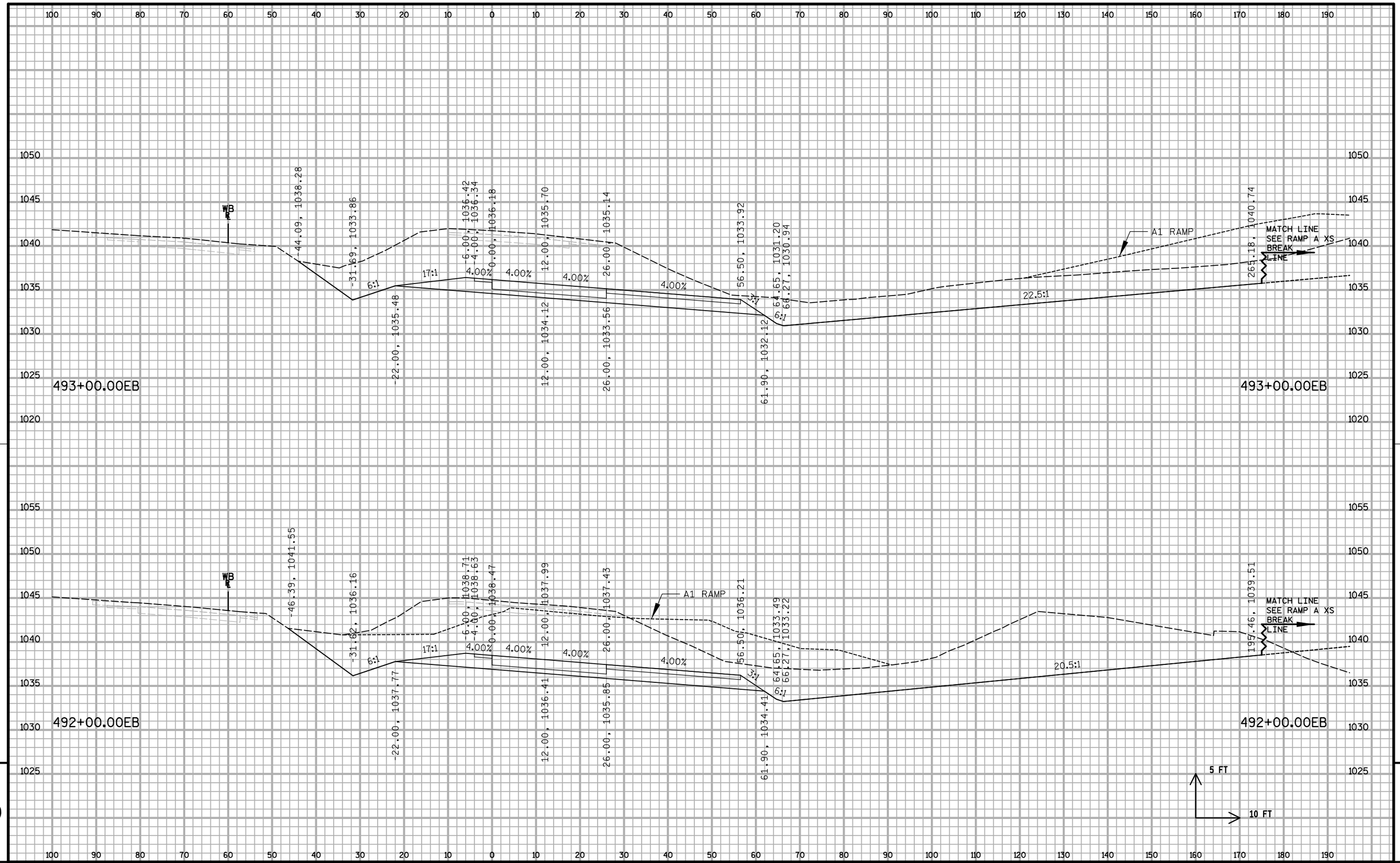
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET:	E

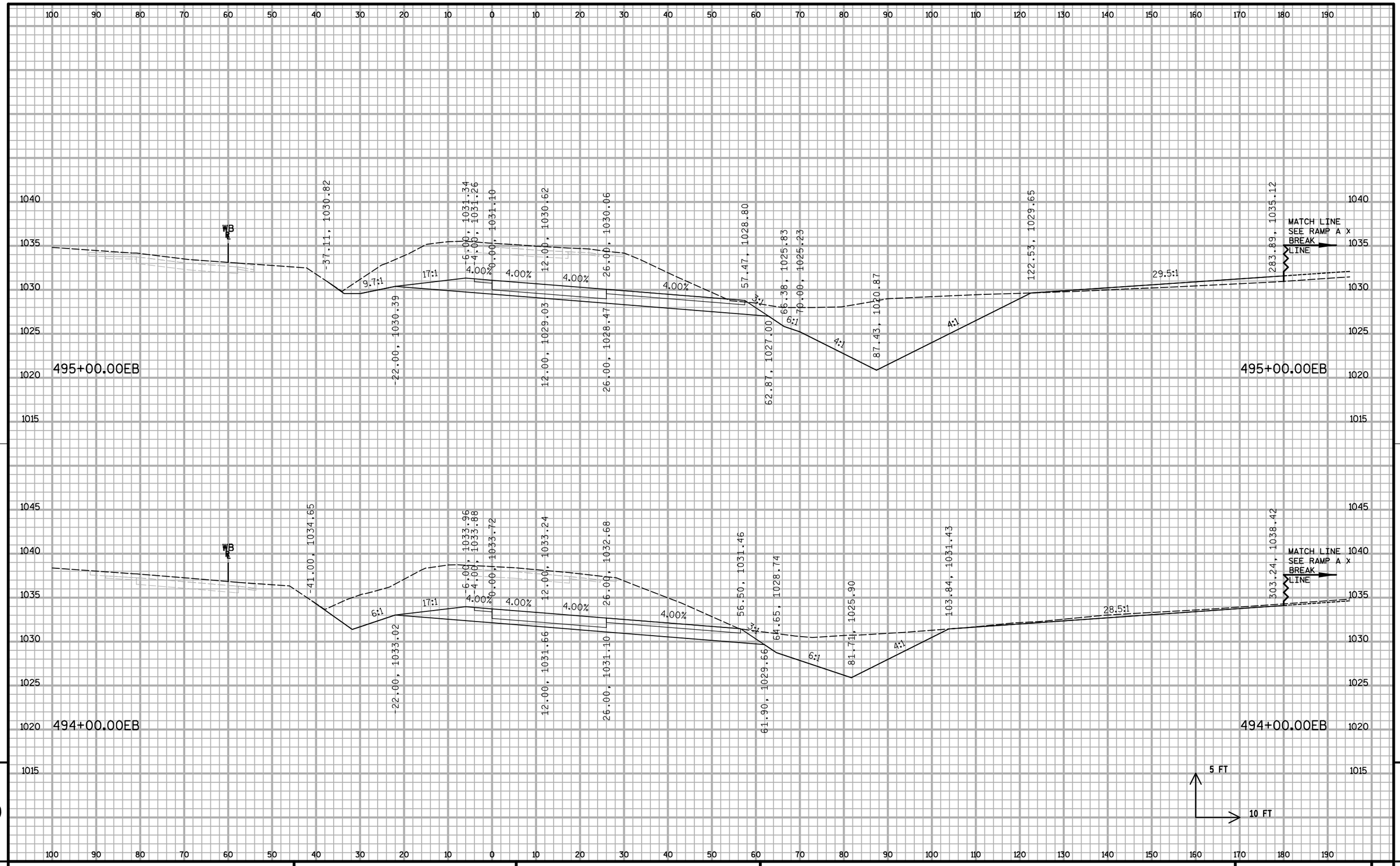
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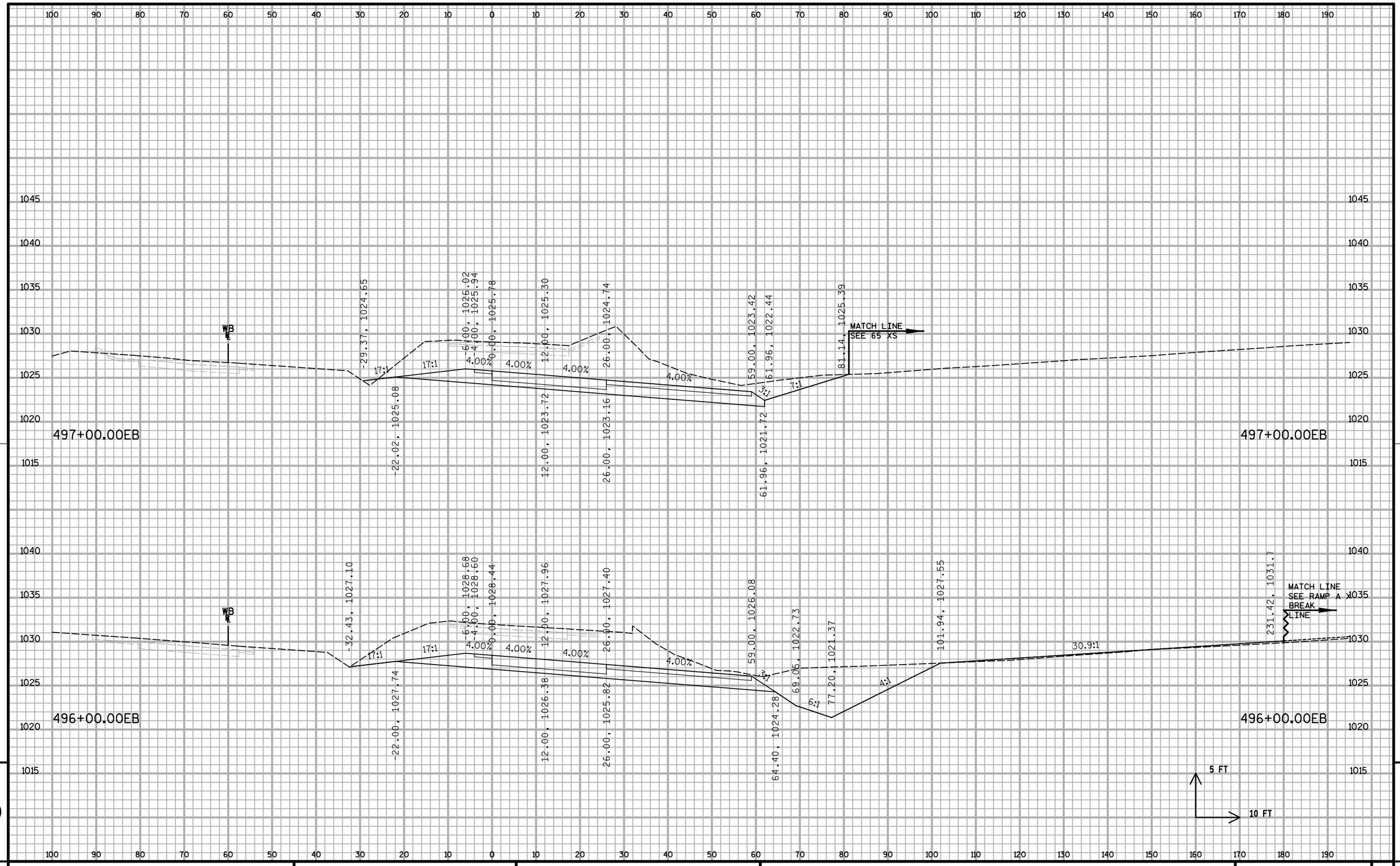
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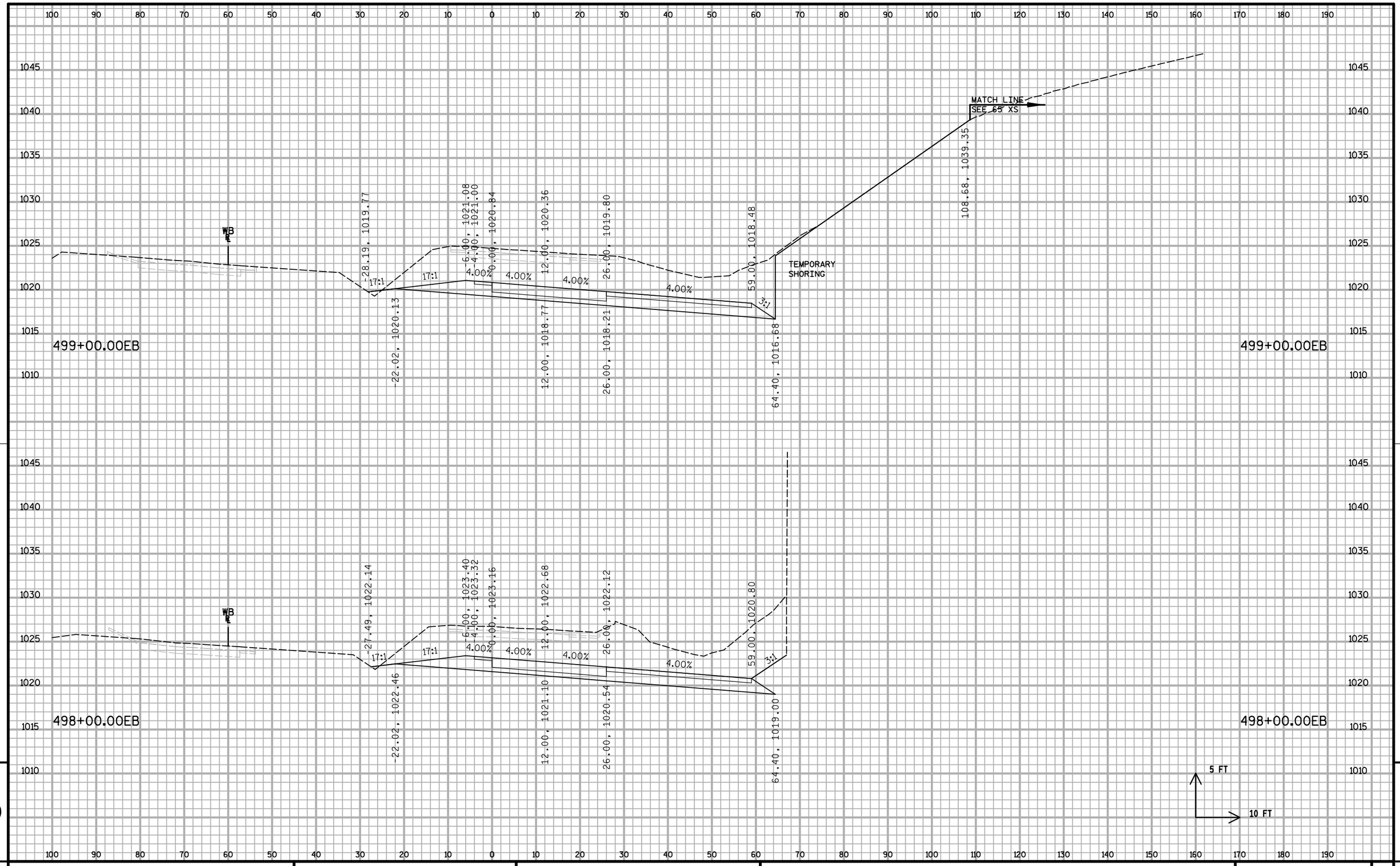
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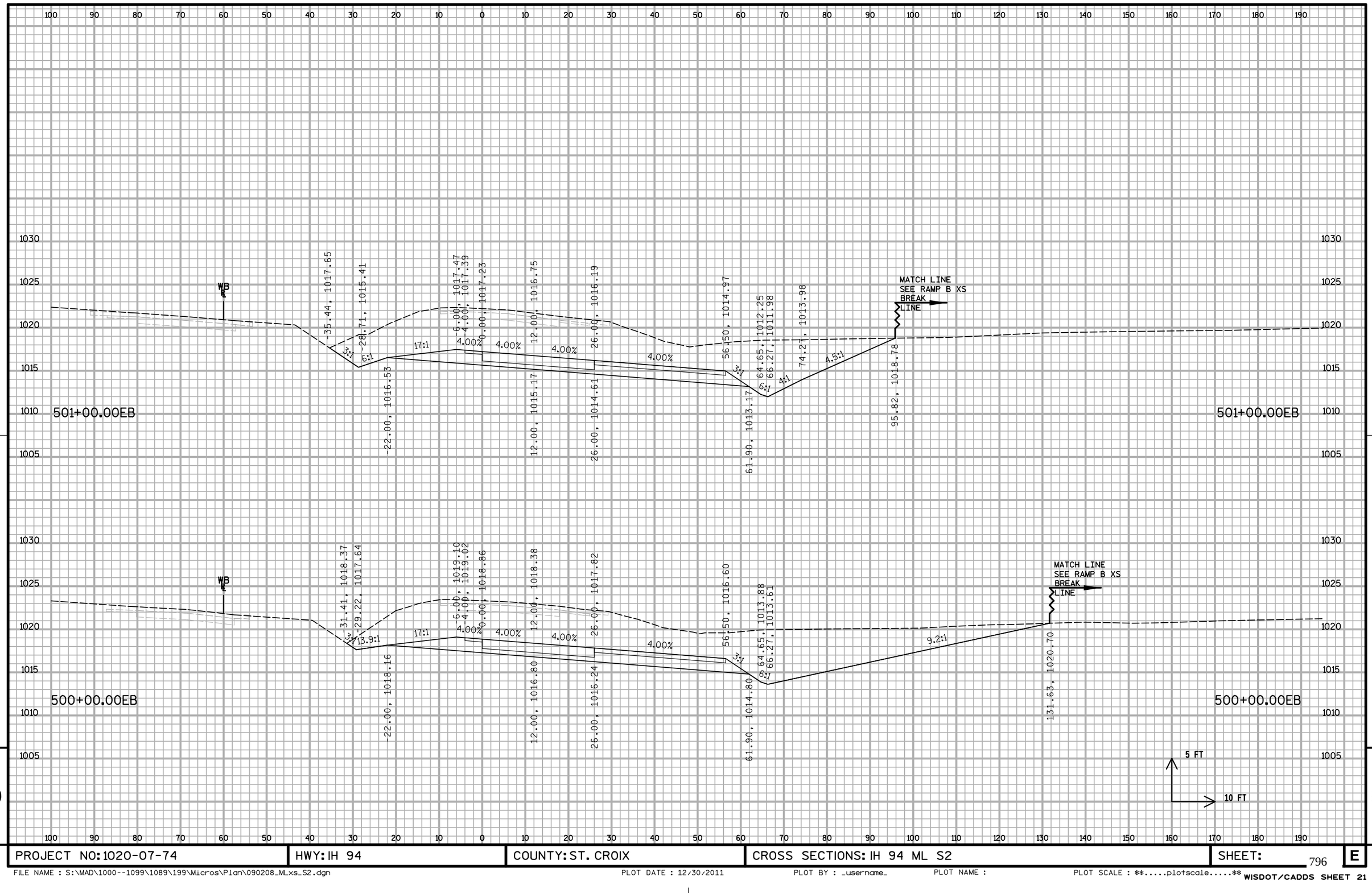
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET:	E

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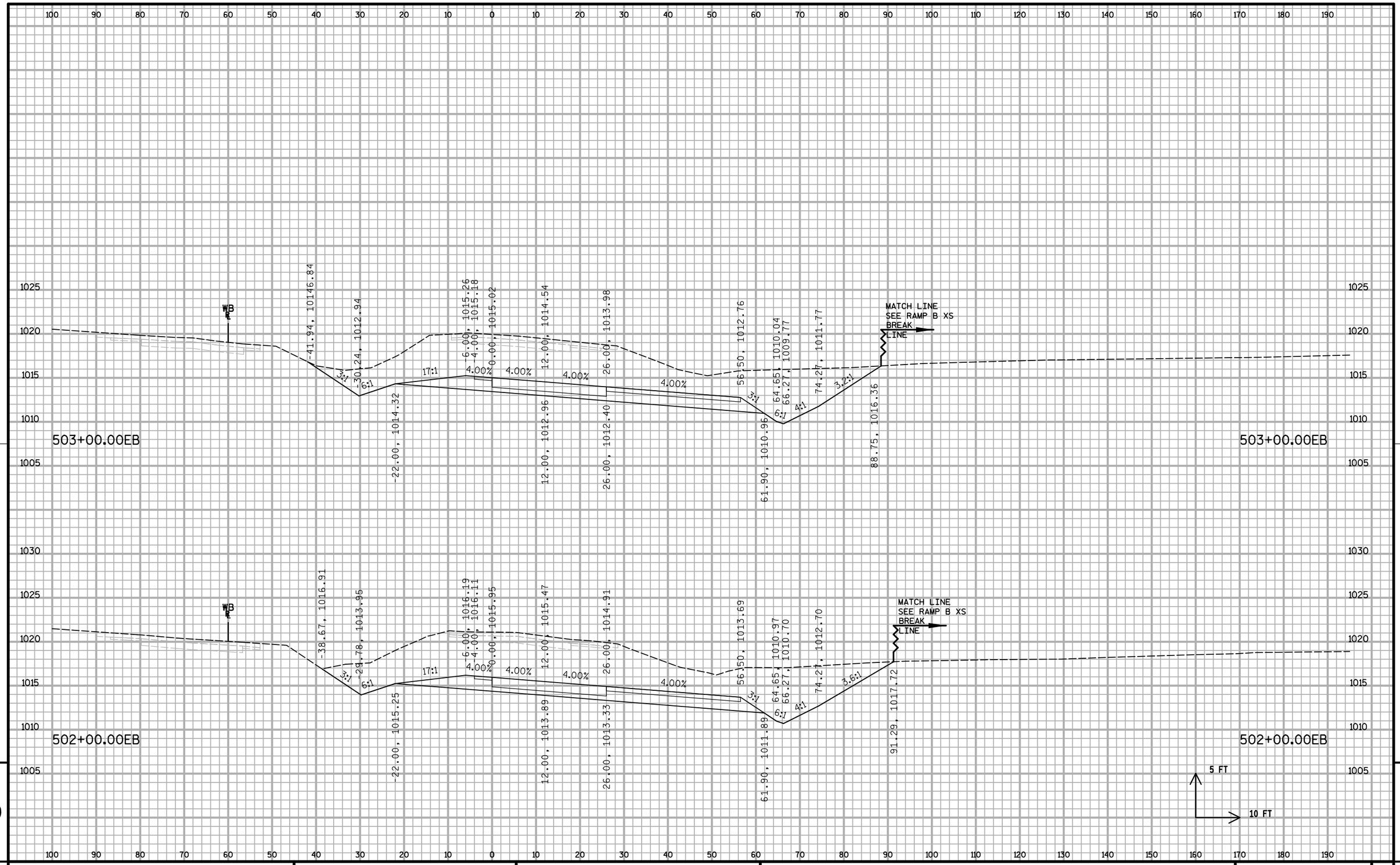


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET:	E

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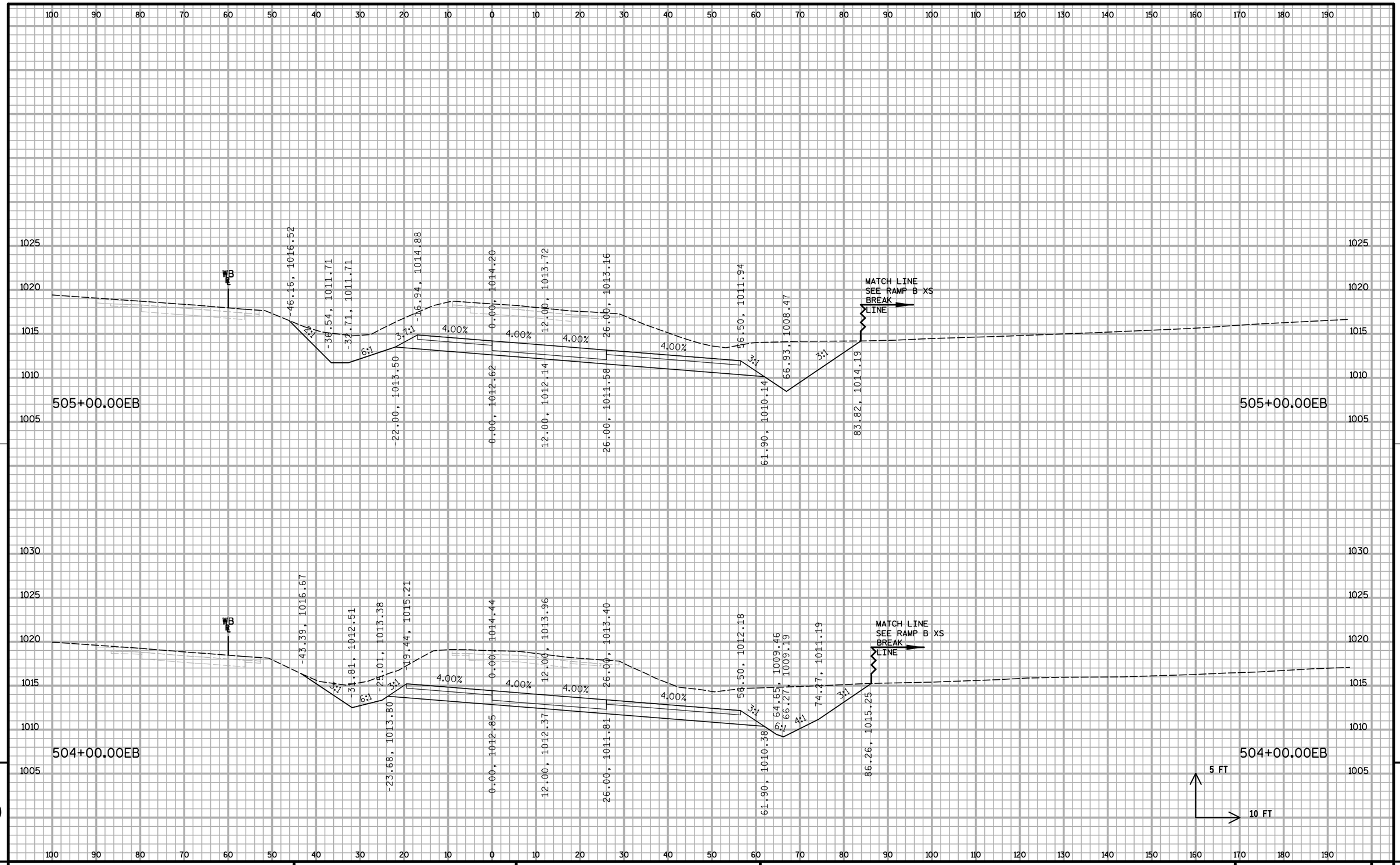


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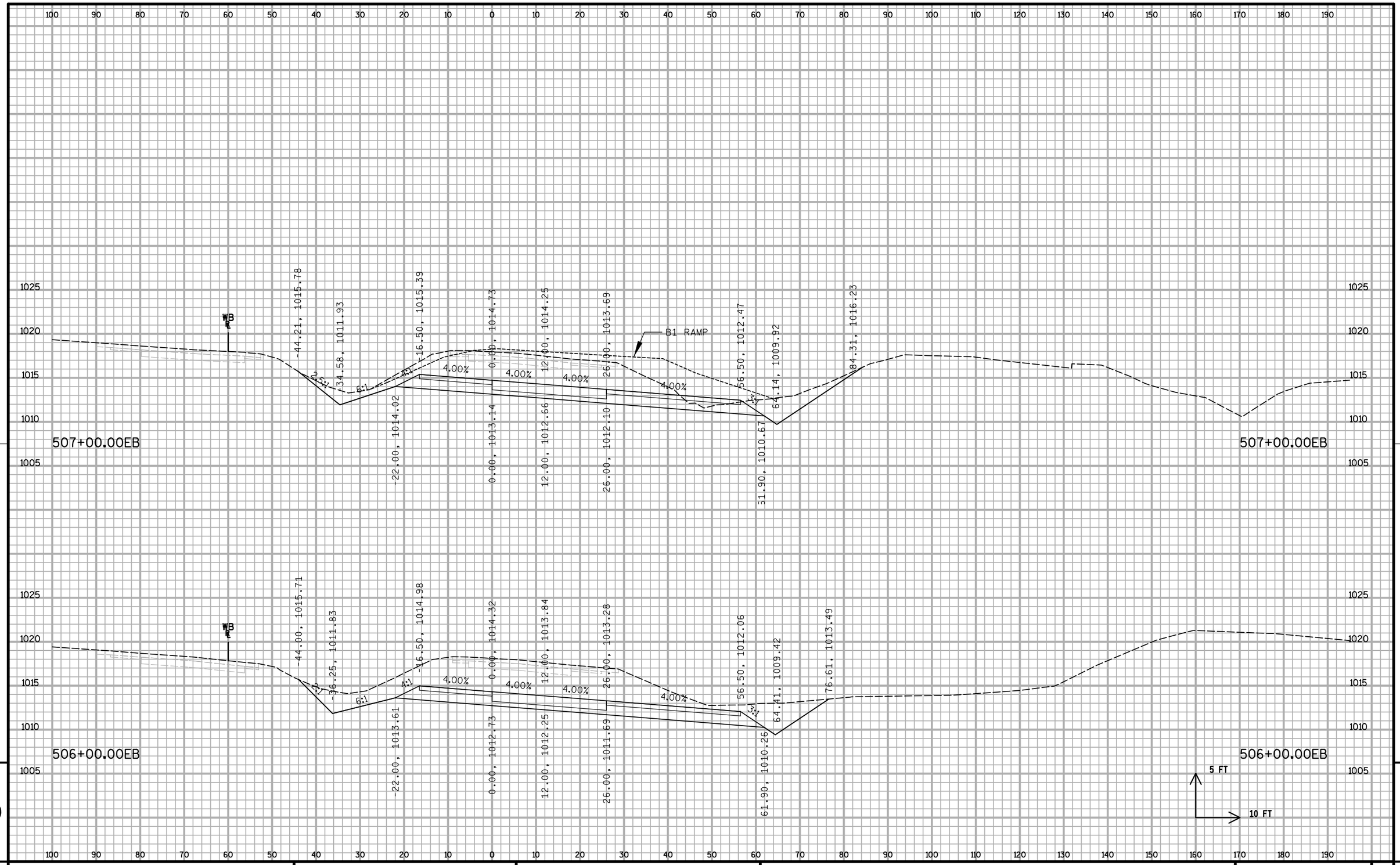
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090208_MLxs_S2.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

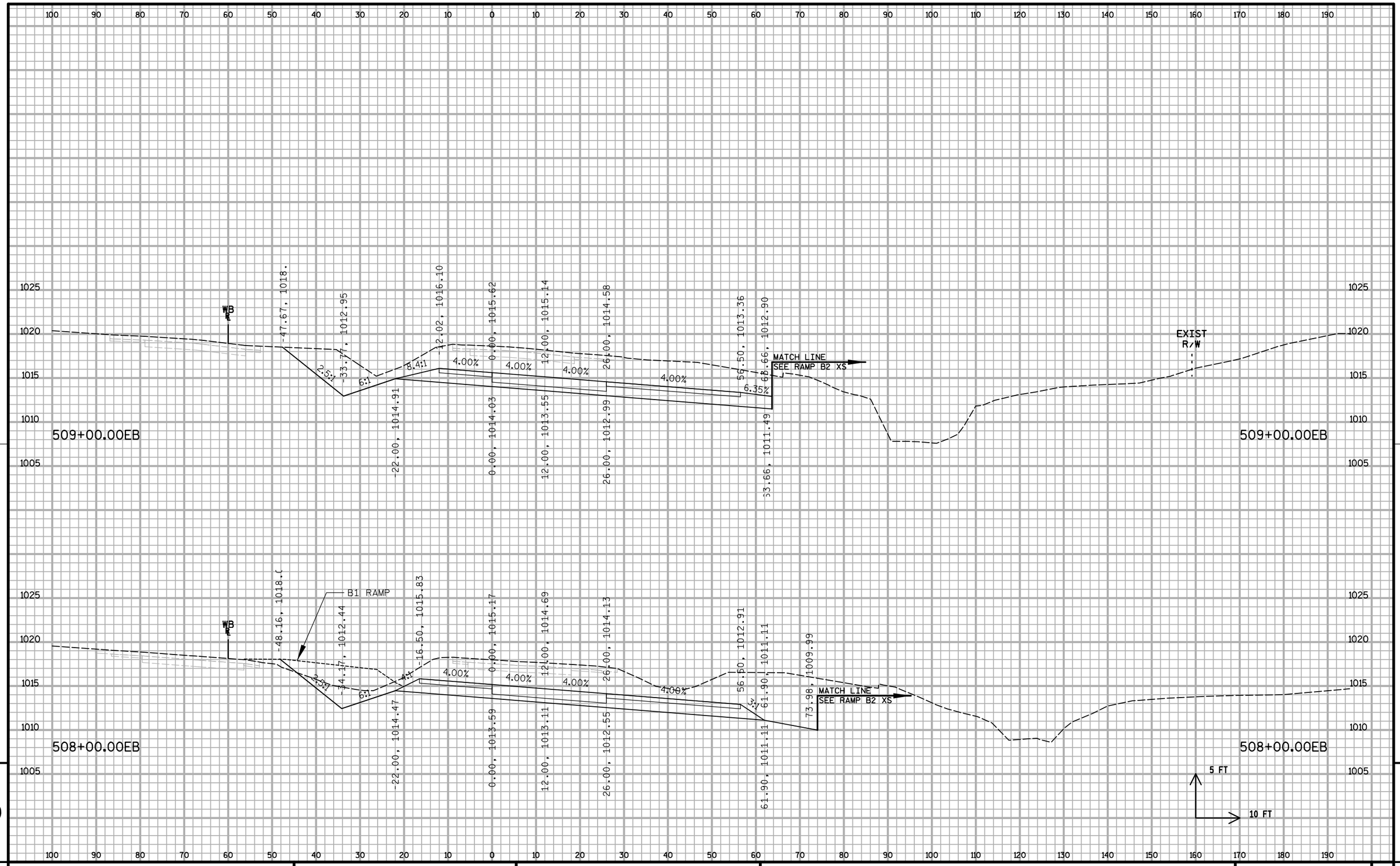


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET:	E

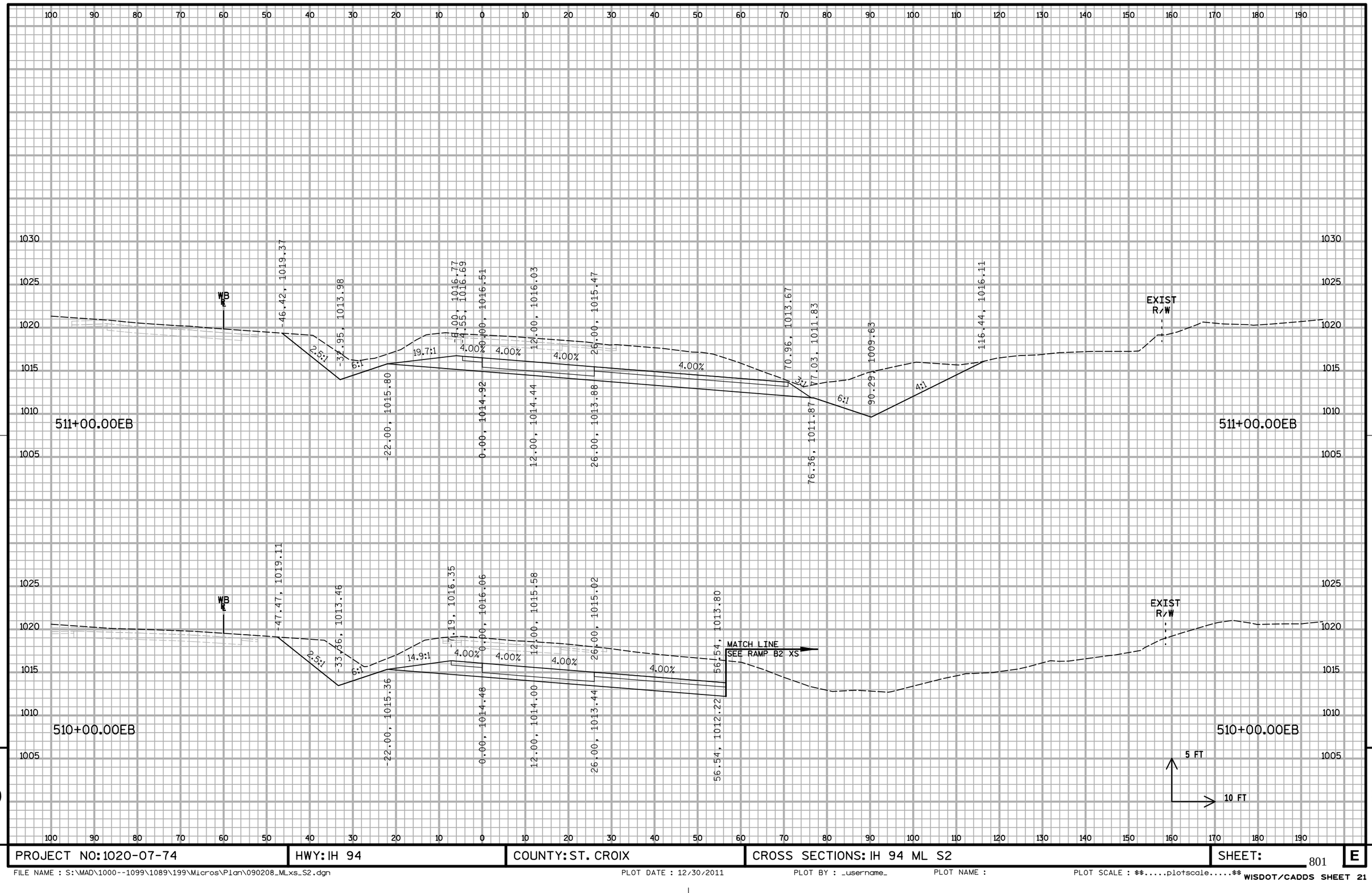
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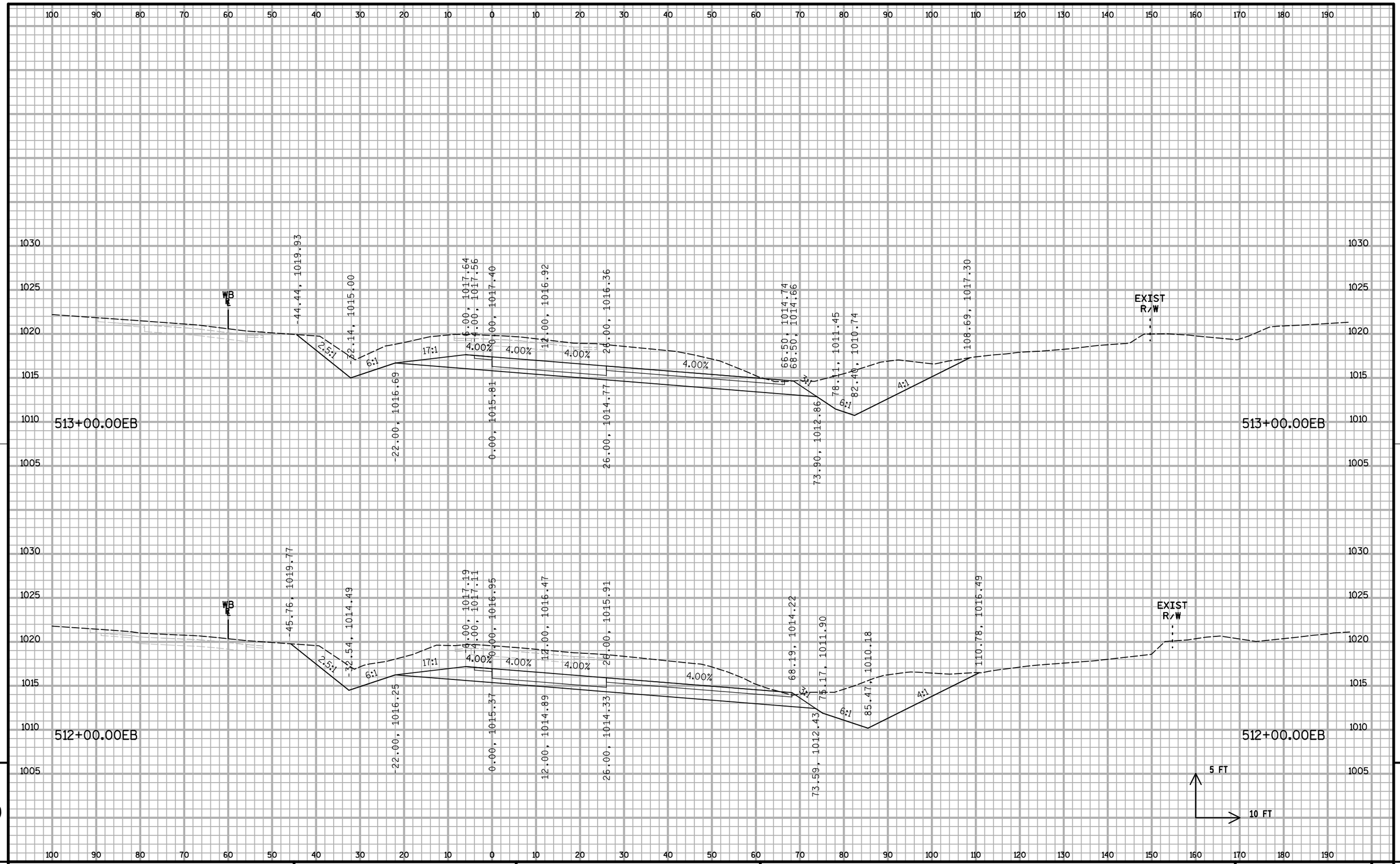
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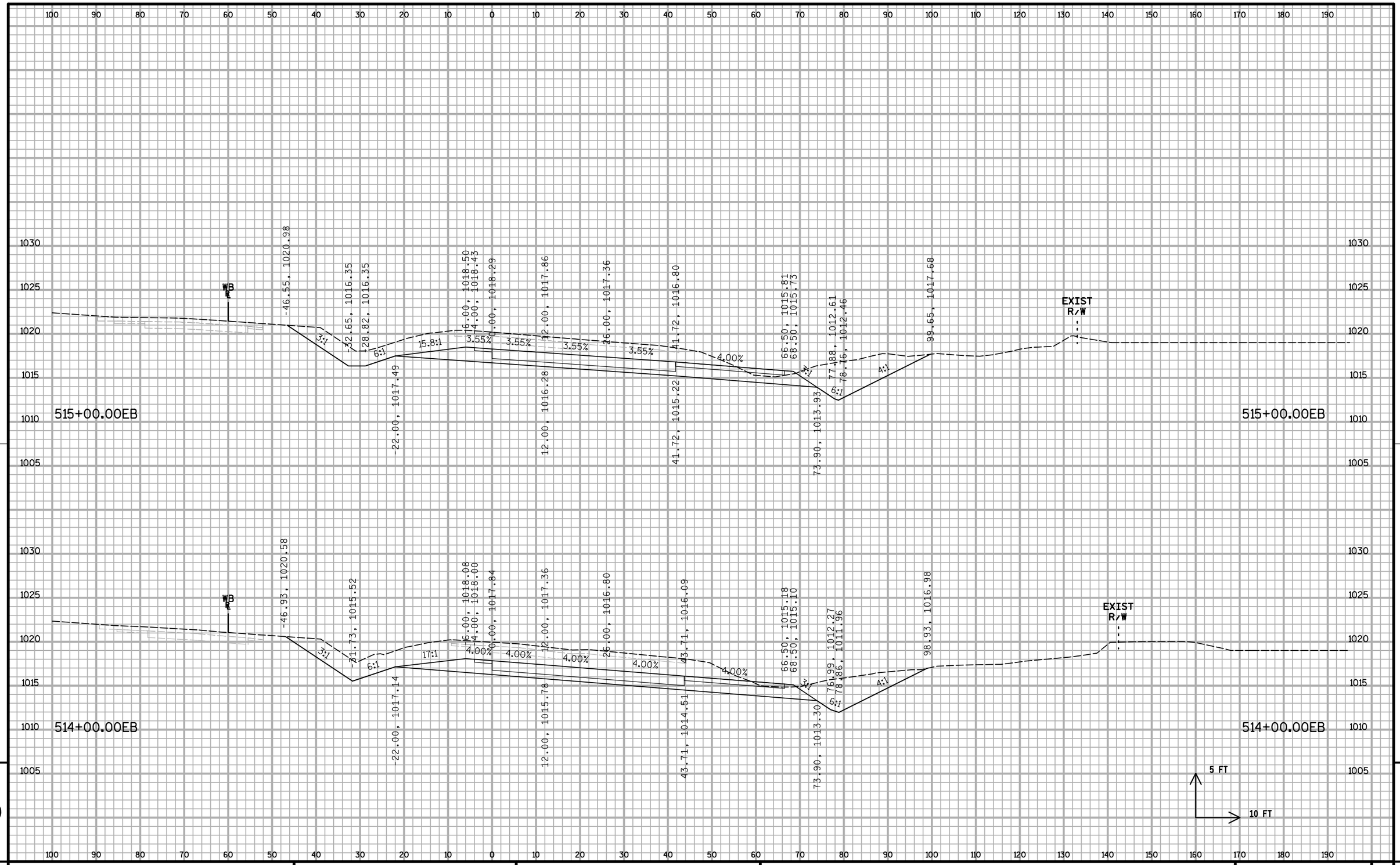
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET:	E

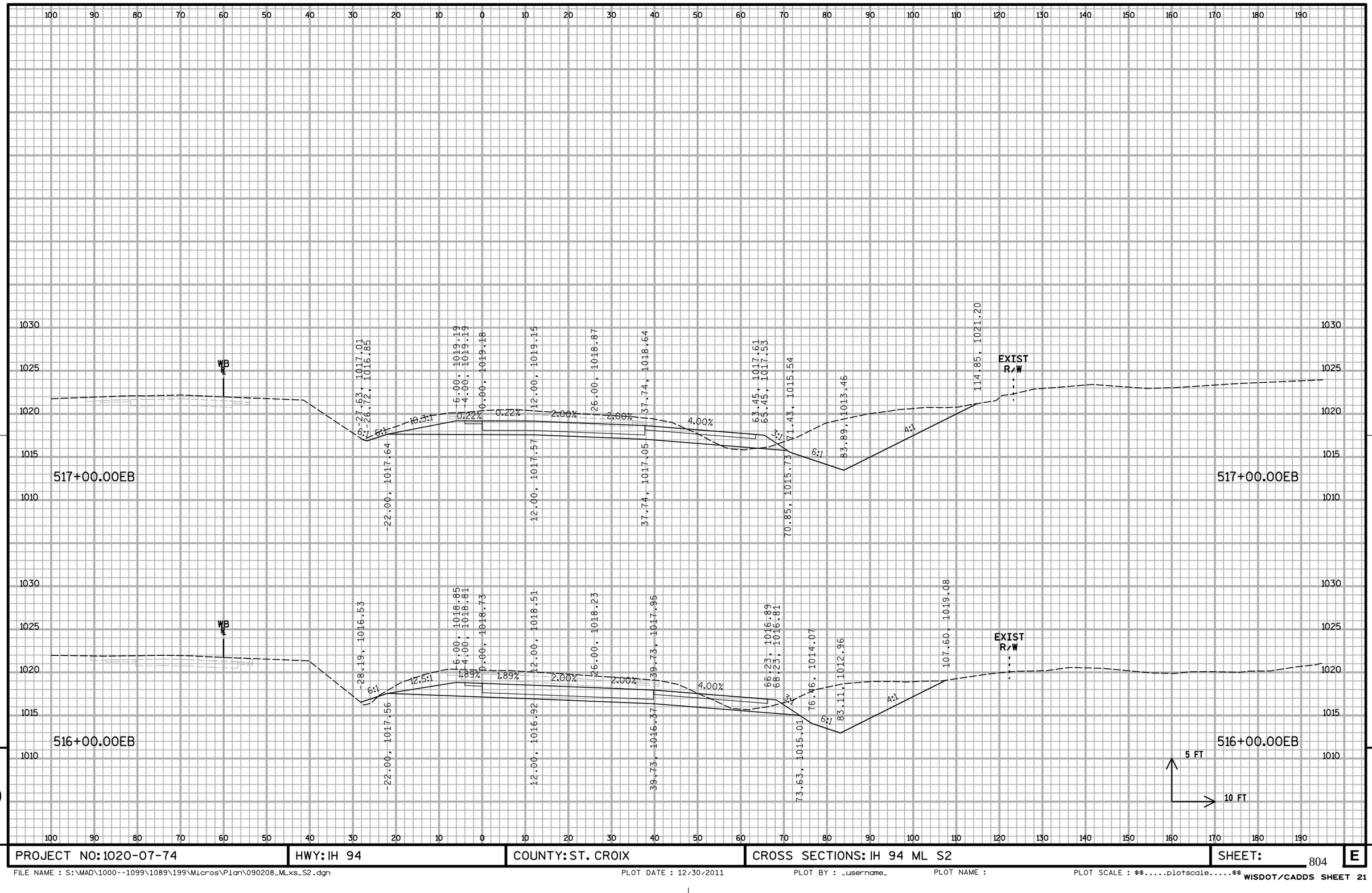
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090208_MLxs_S2.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

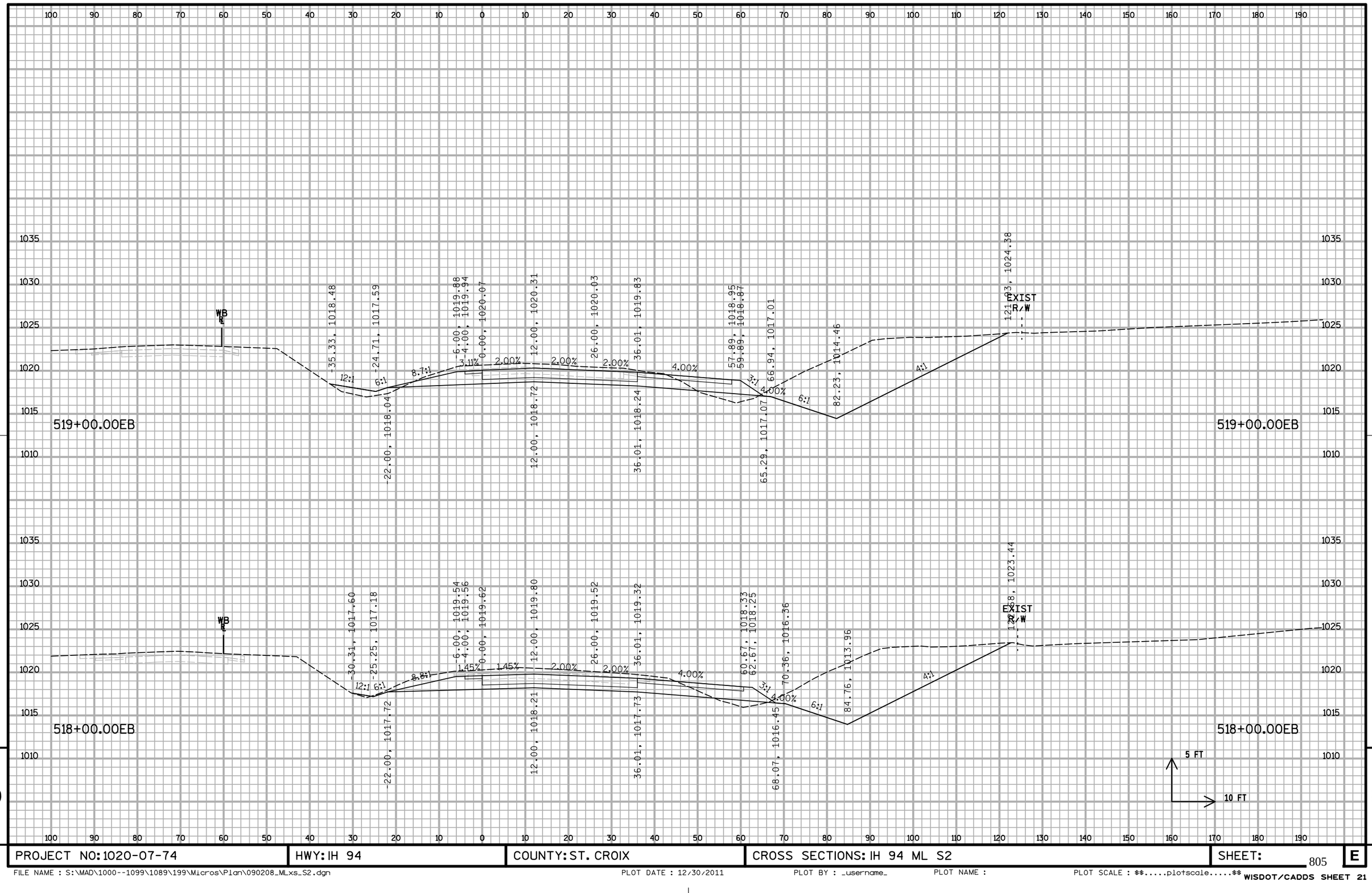
WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET: 804	E

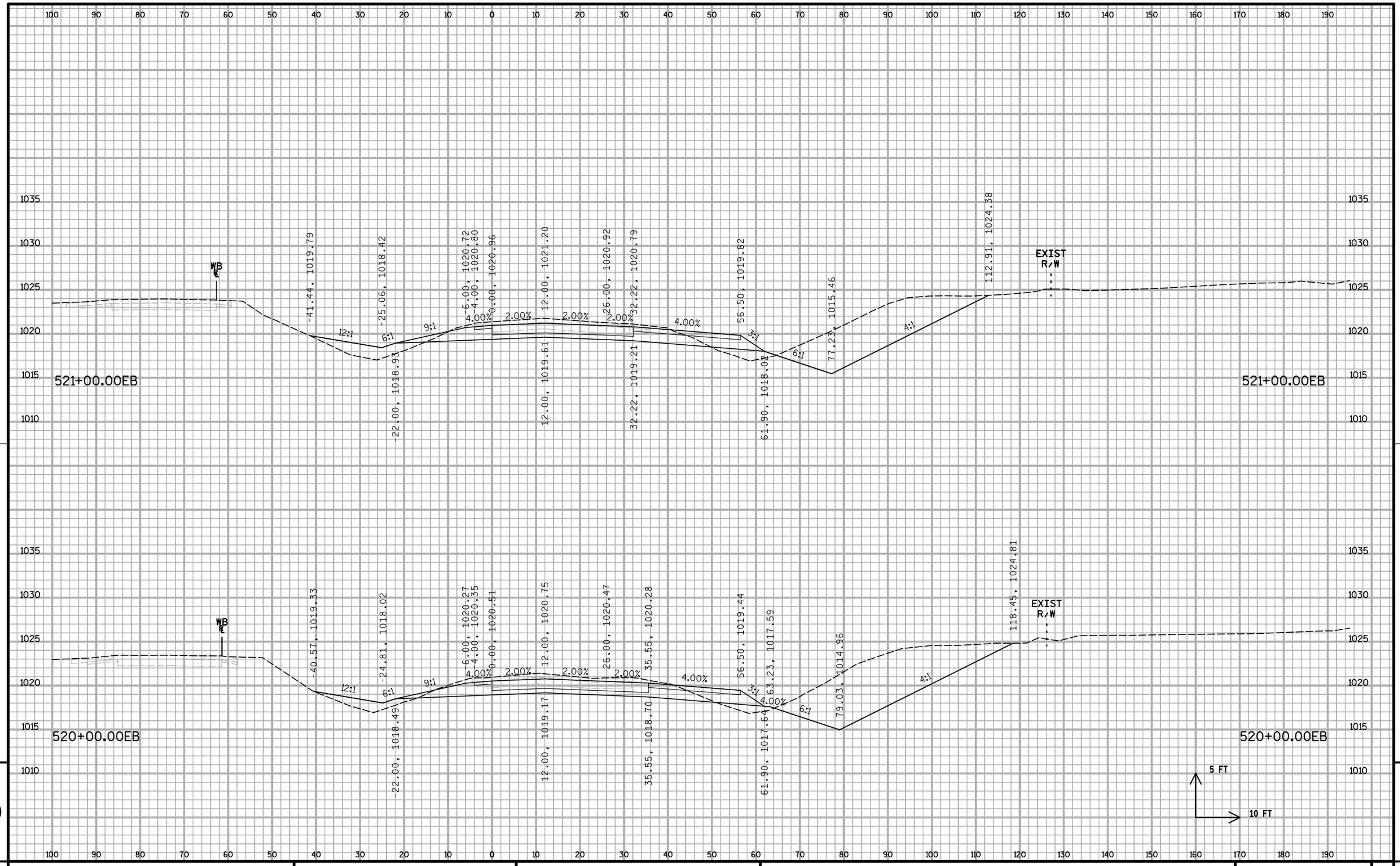
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WISDOT/CADDS SHEET 21



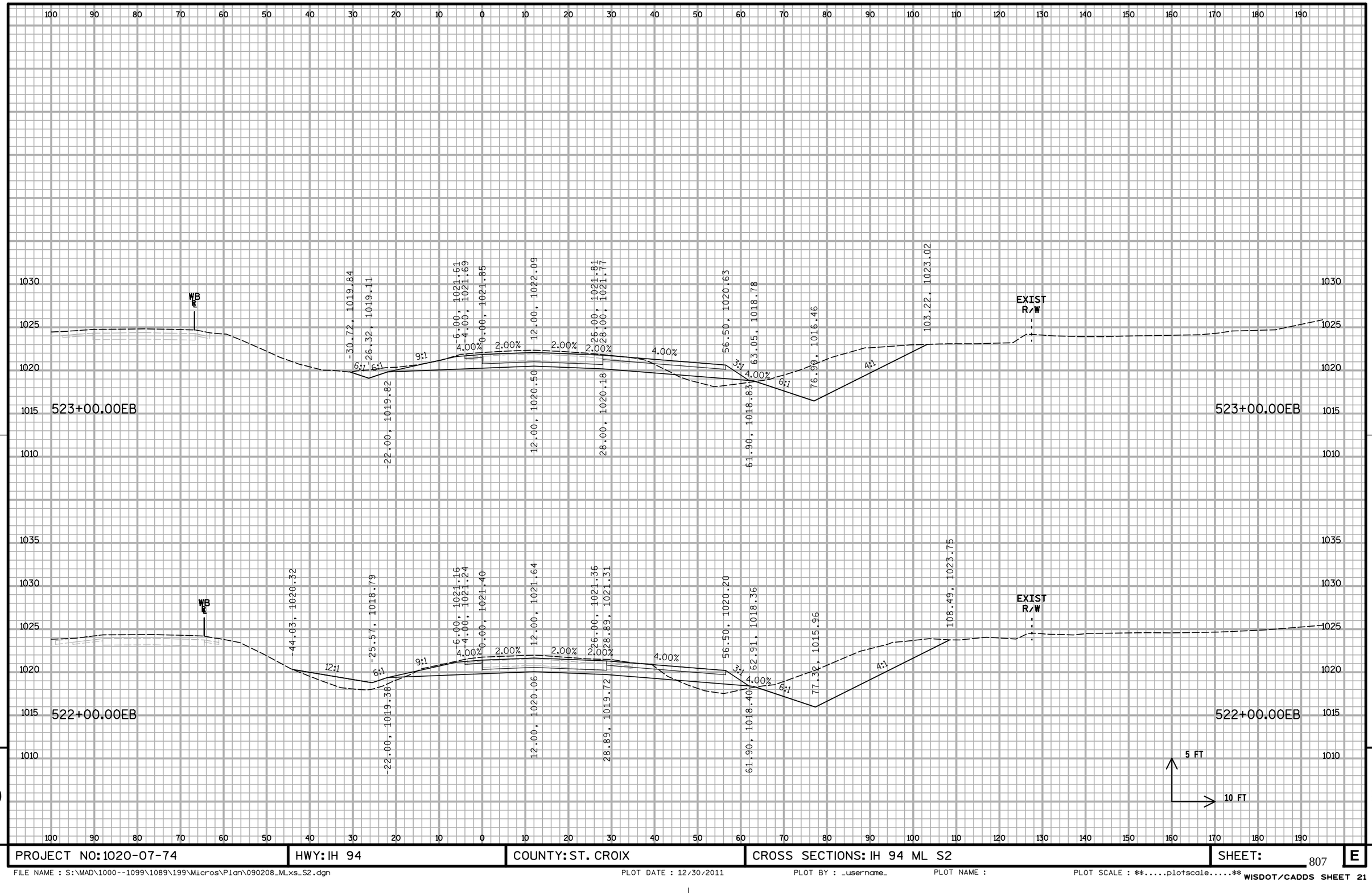
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090208_MLxs_S2.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



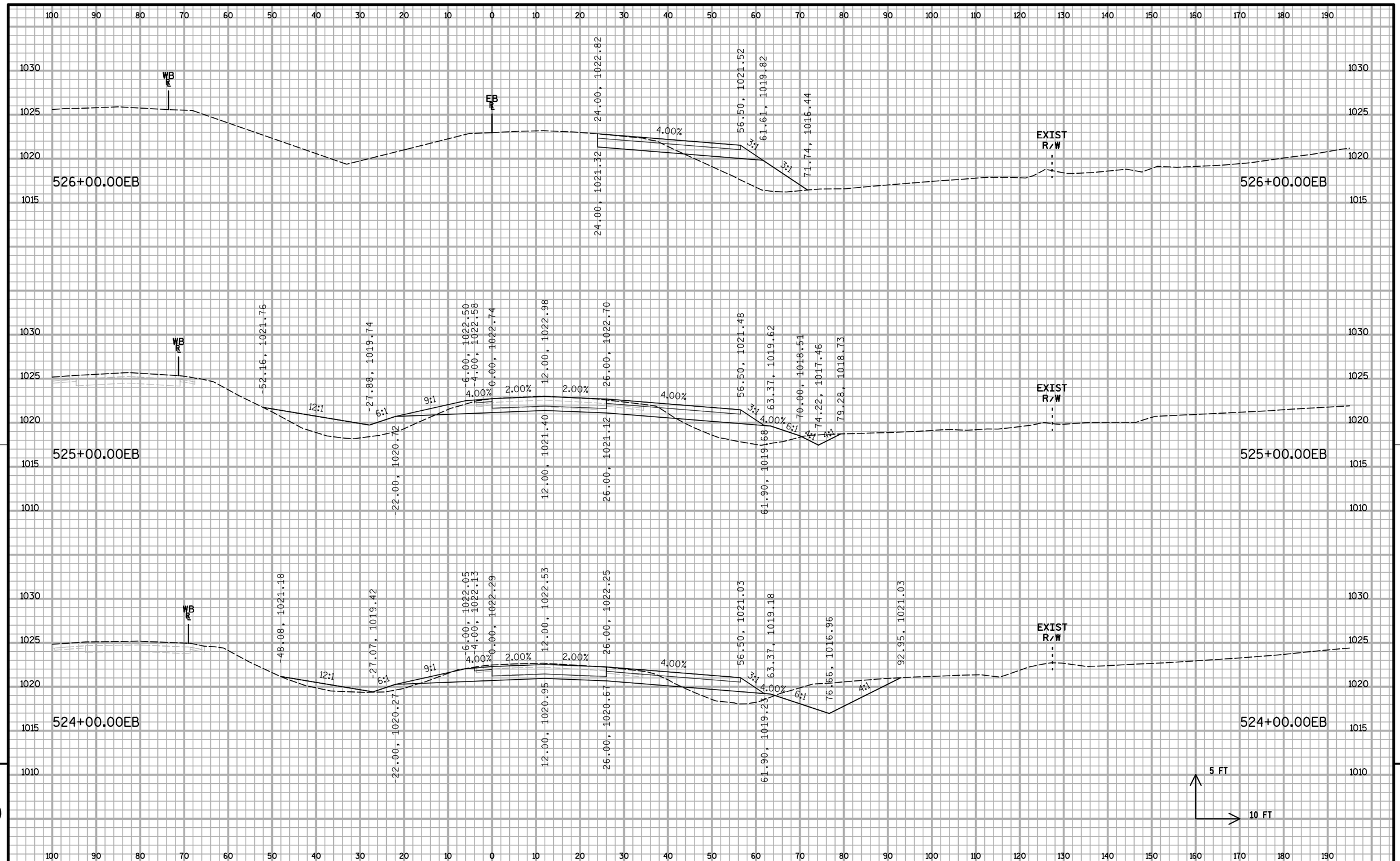
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090208_MLxs_S2.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET:	

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090208_MLxs_S2.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

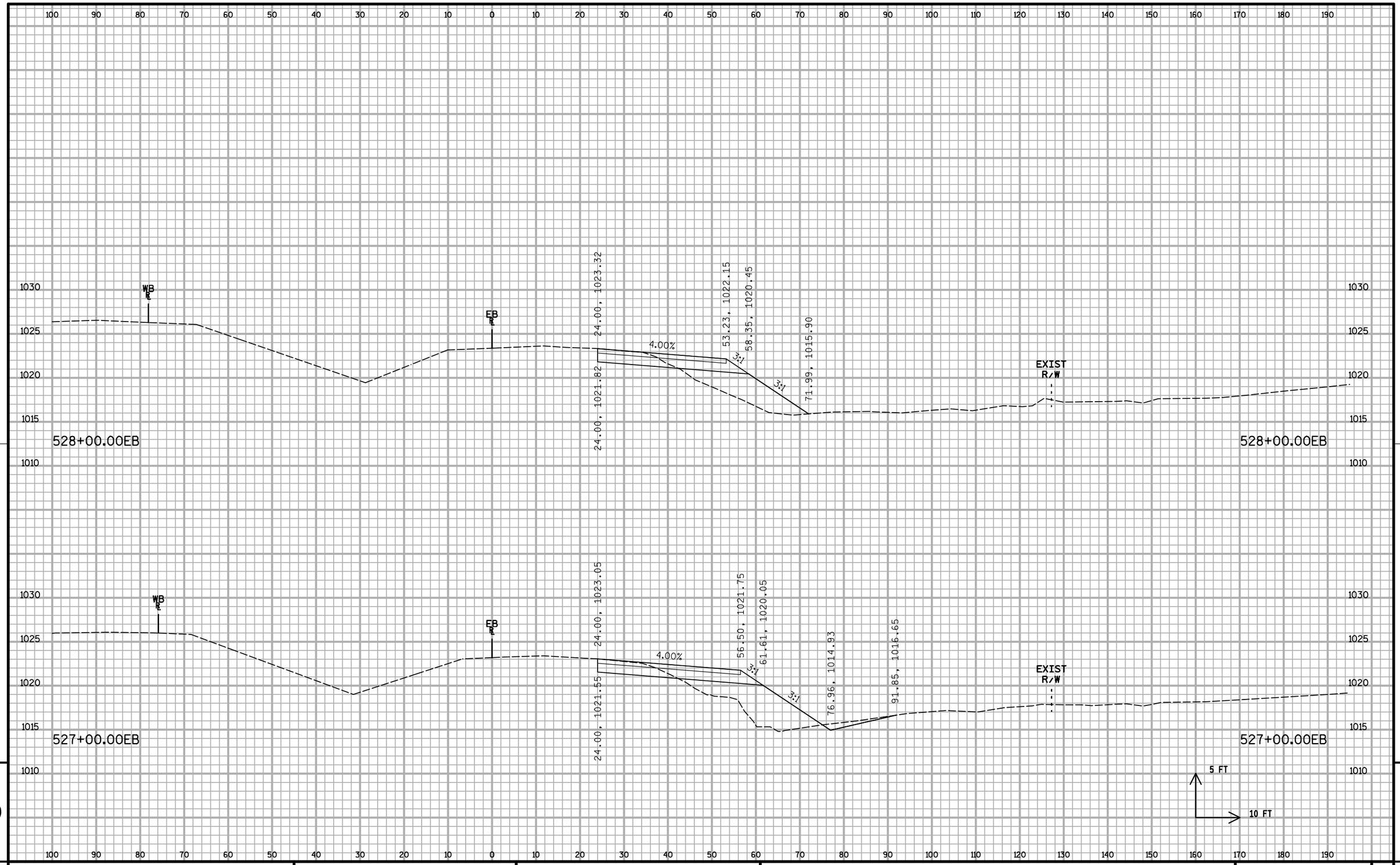


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET:	E

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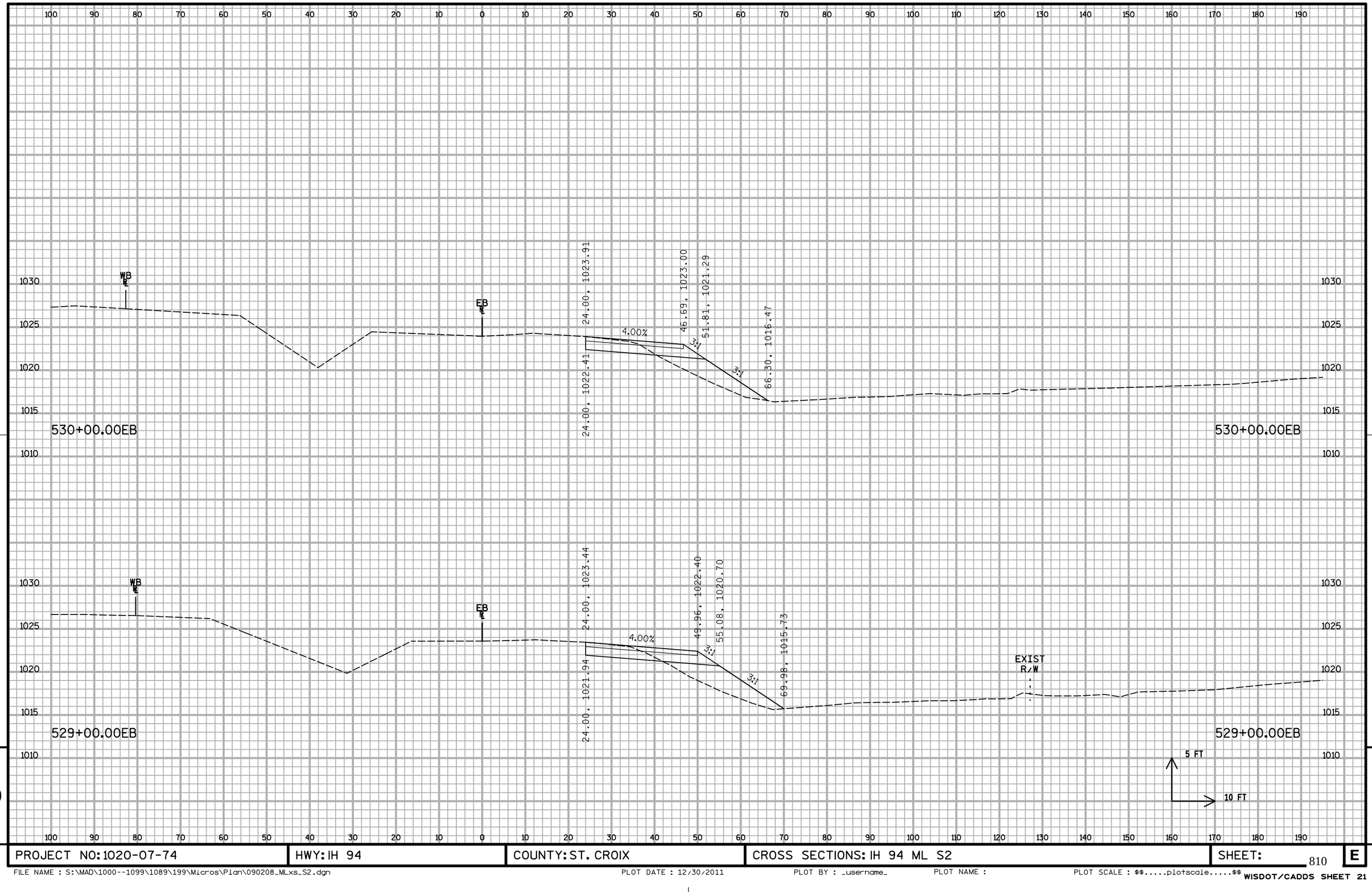


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET:	E

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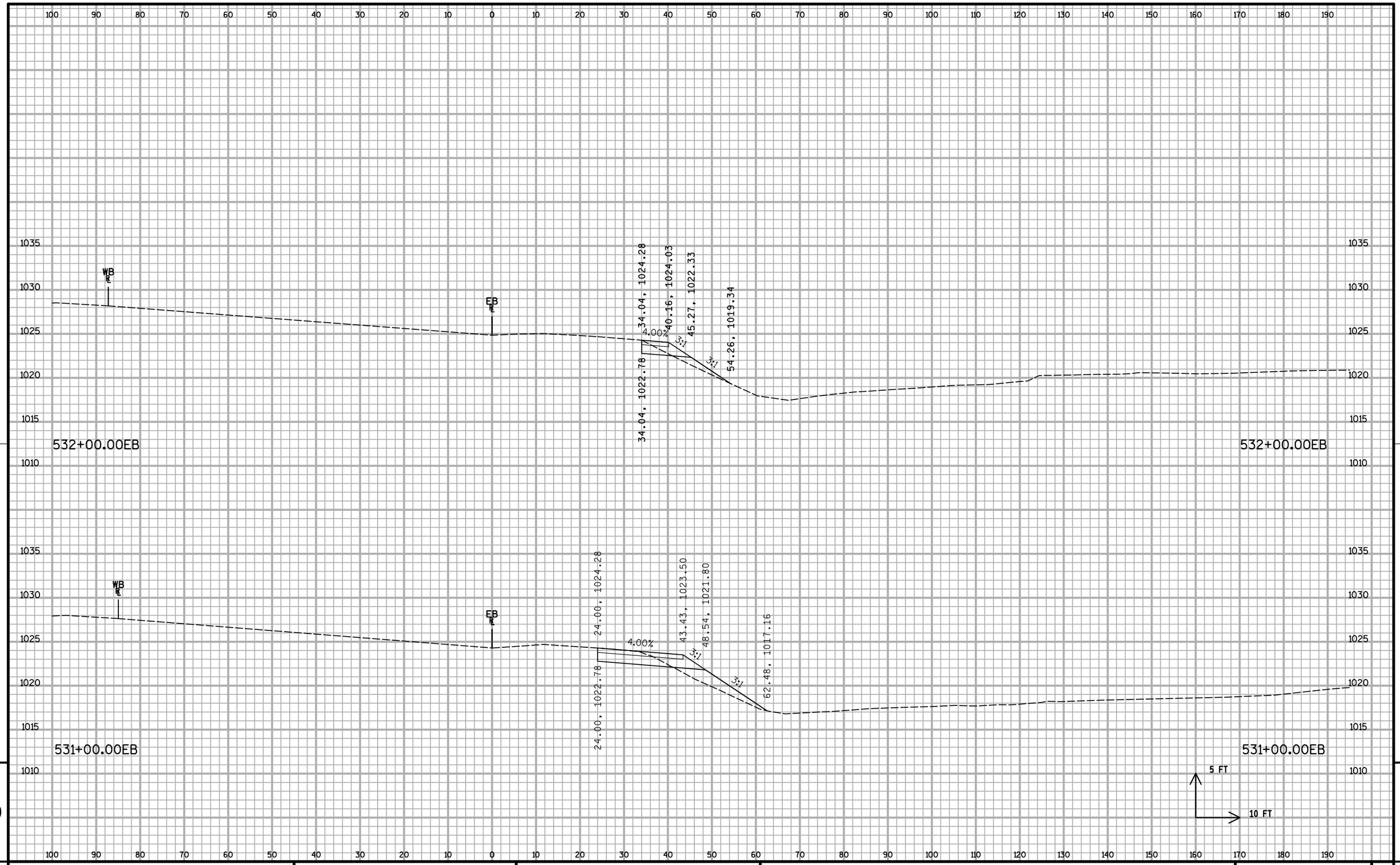


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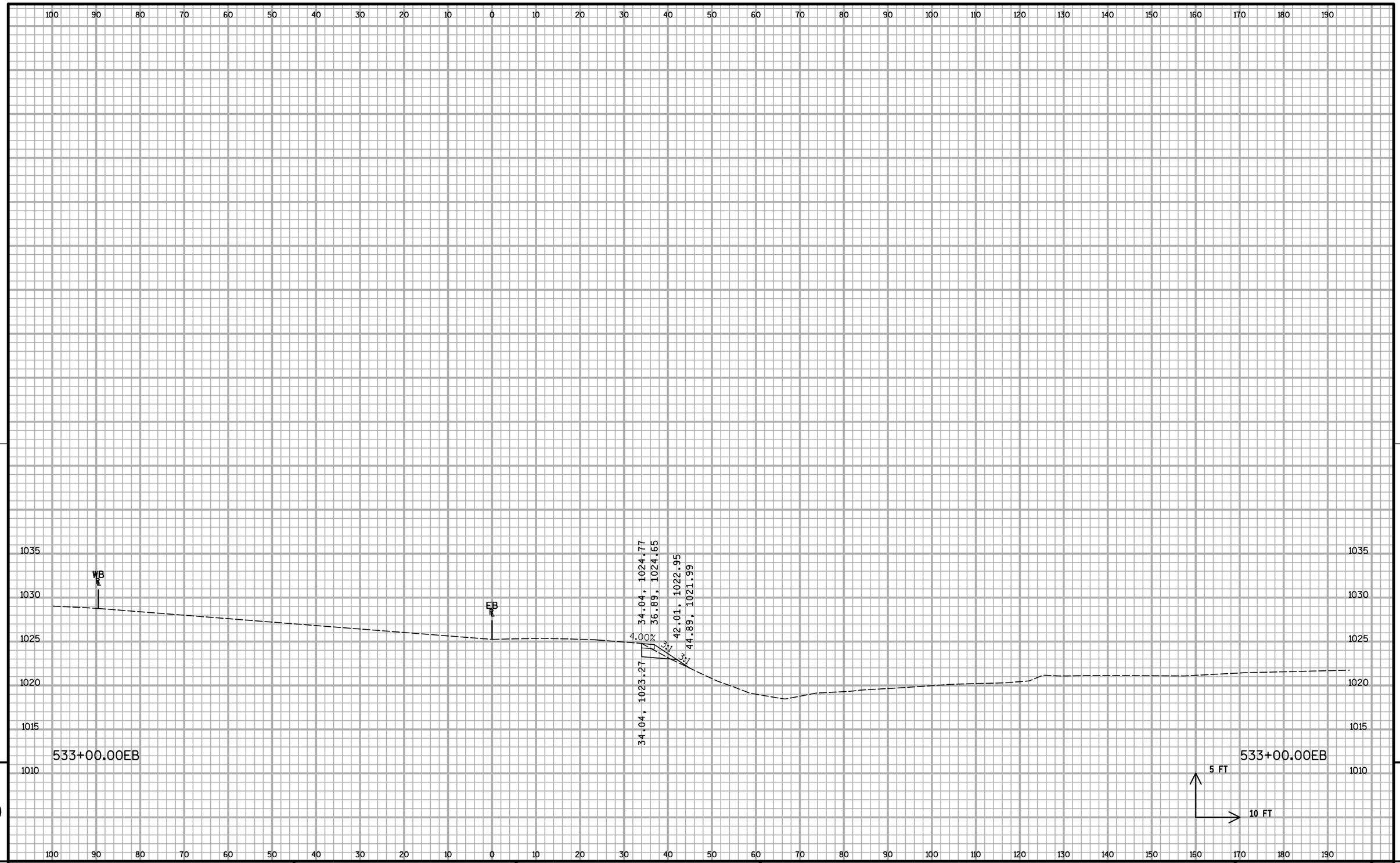
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090208_MLxs_S2.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S2	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090208_MLxs_S2.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

STAGE 3D

WB
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-95.54, 1009.24
-89.14, 1008.32

EB
9.47, 1007.67
-6.00, 1008.24
-3.00, 1008.28

7:1

6:1

400+00.00EB

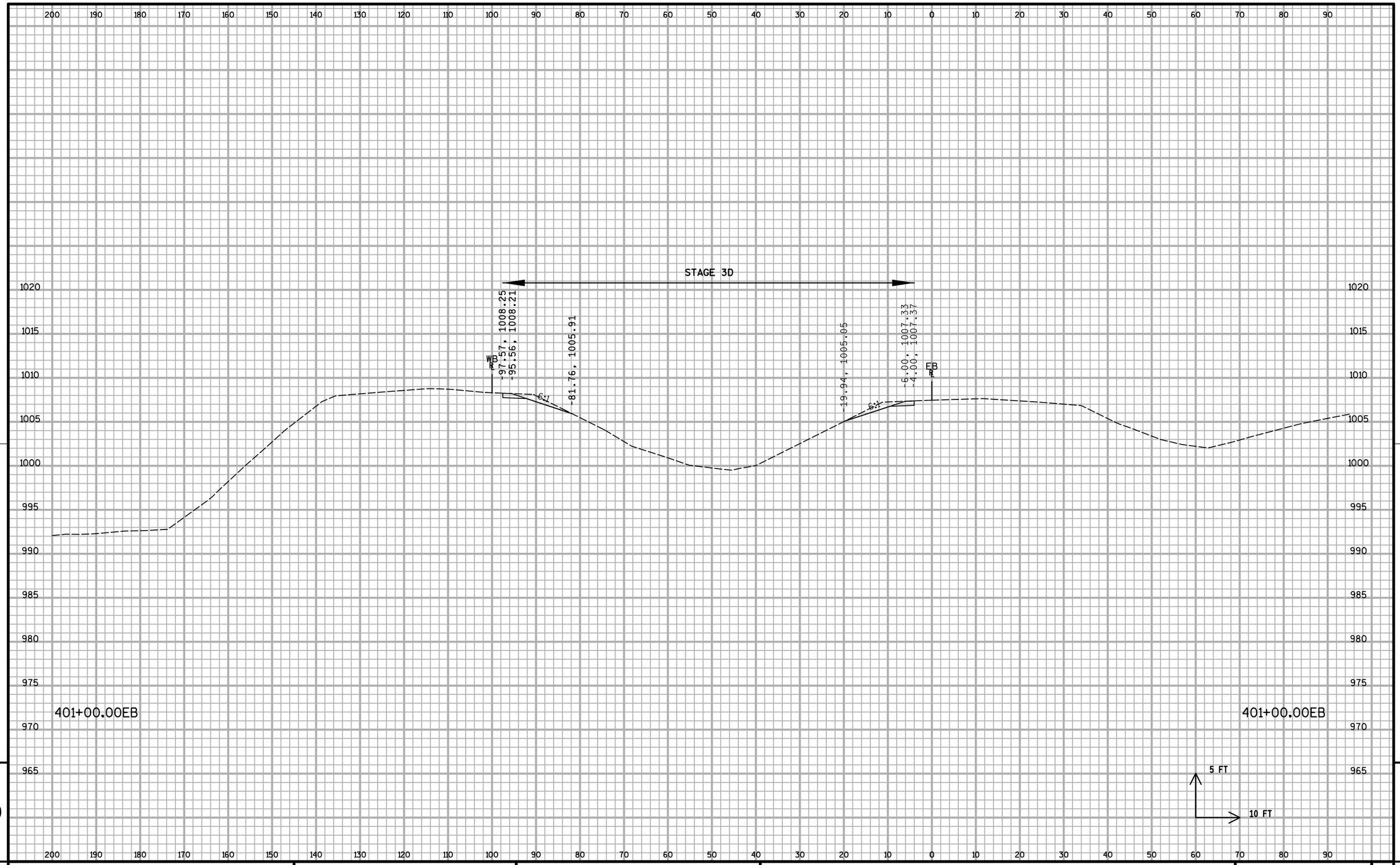
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5 FT

10 FT

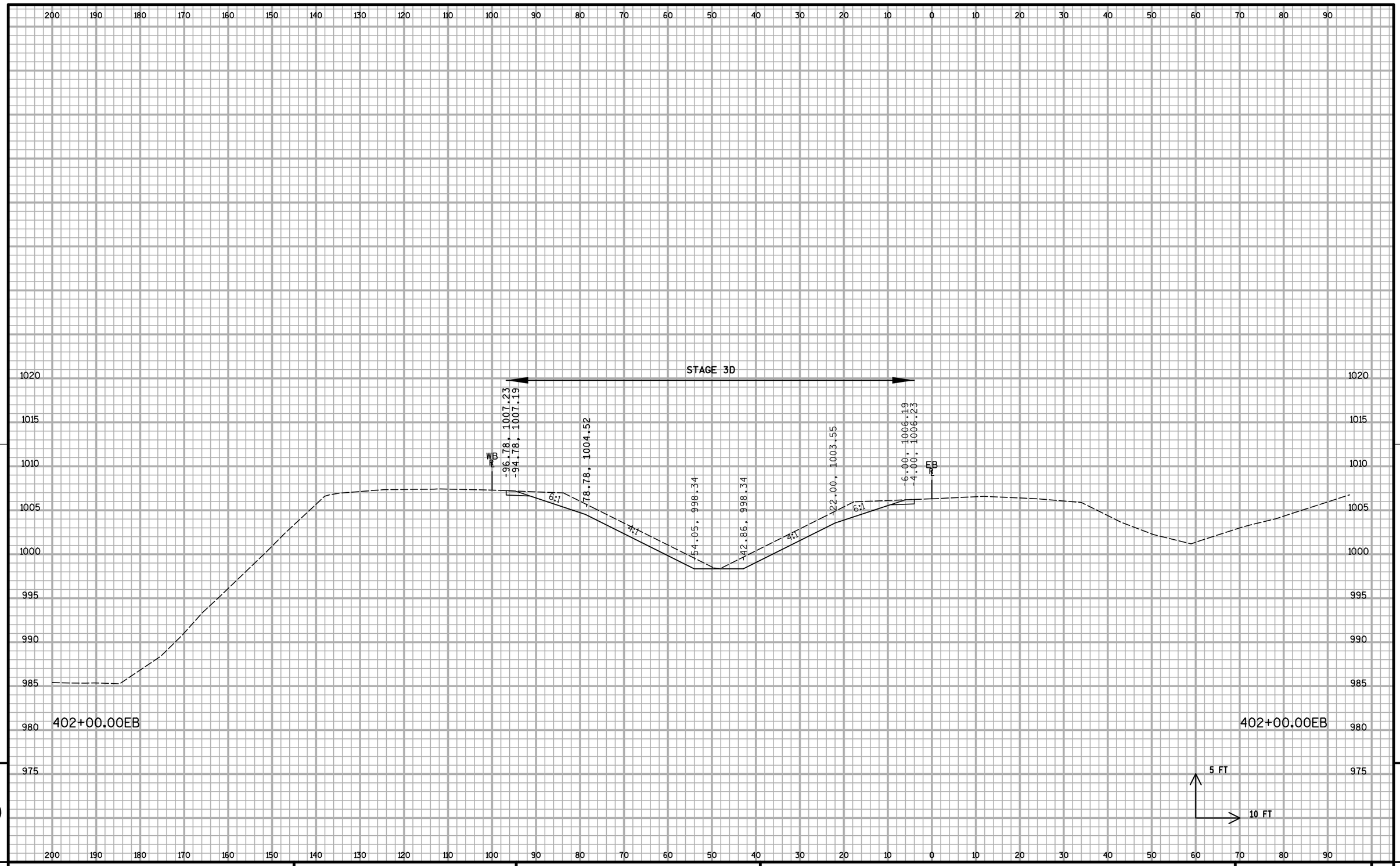
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET:	E

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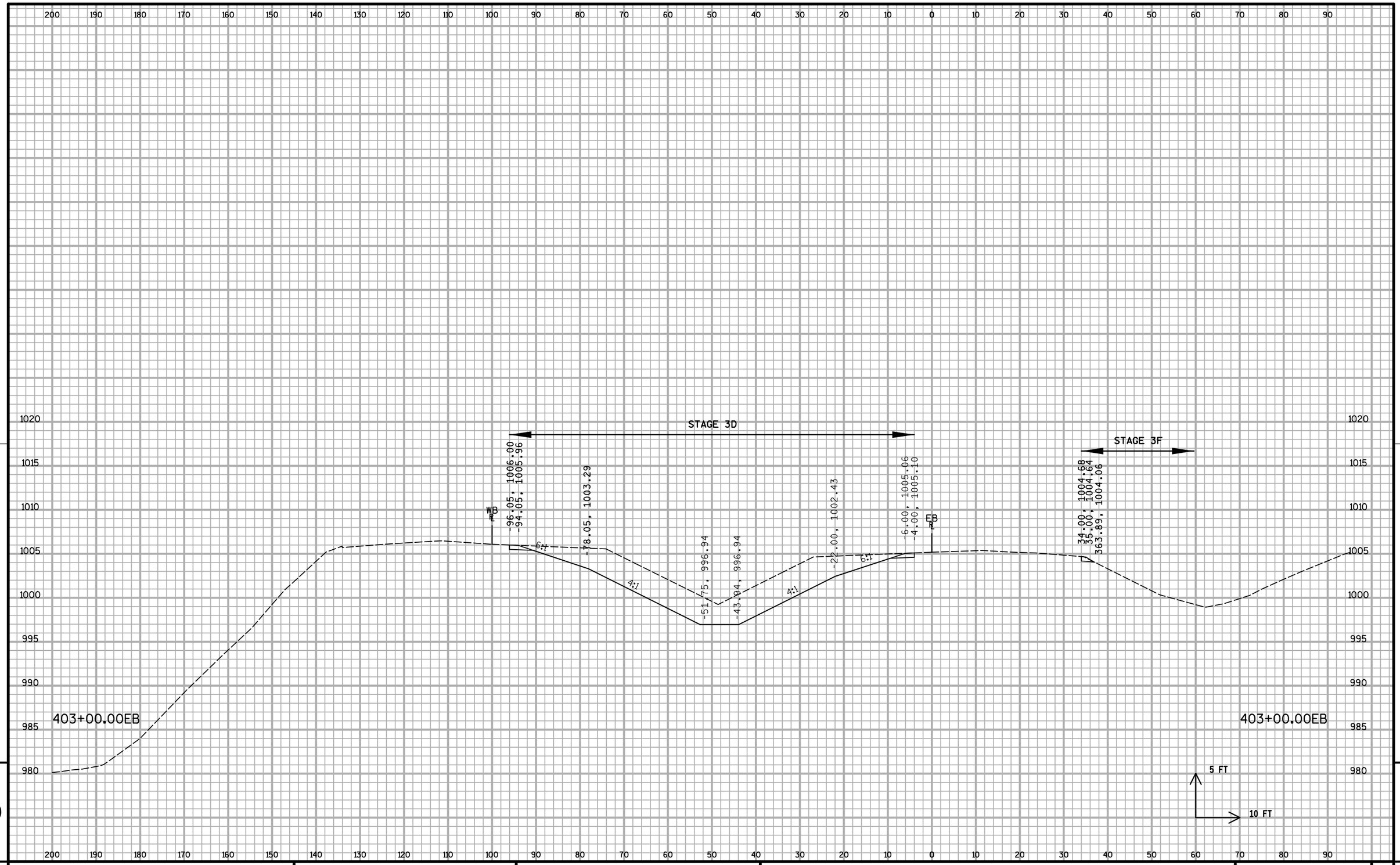


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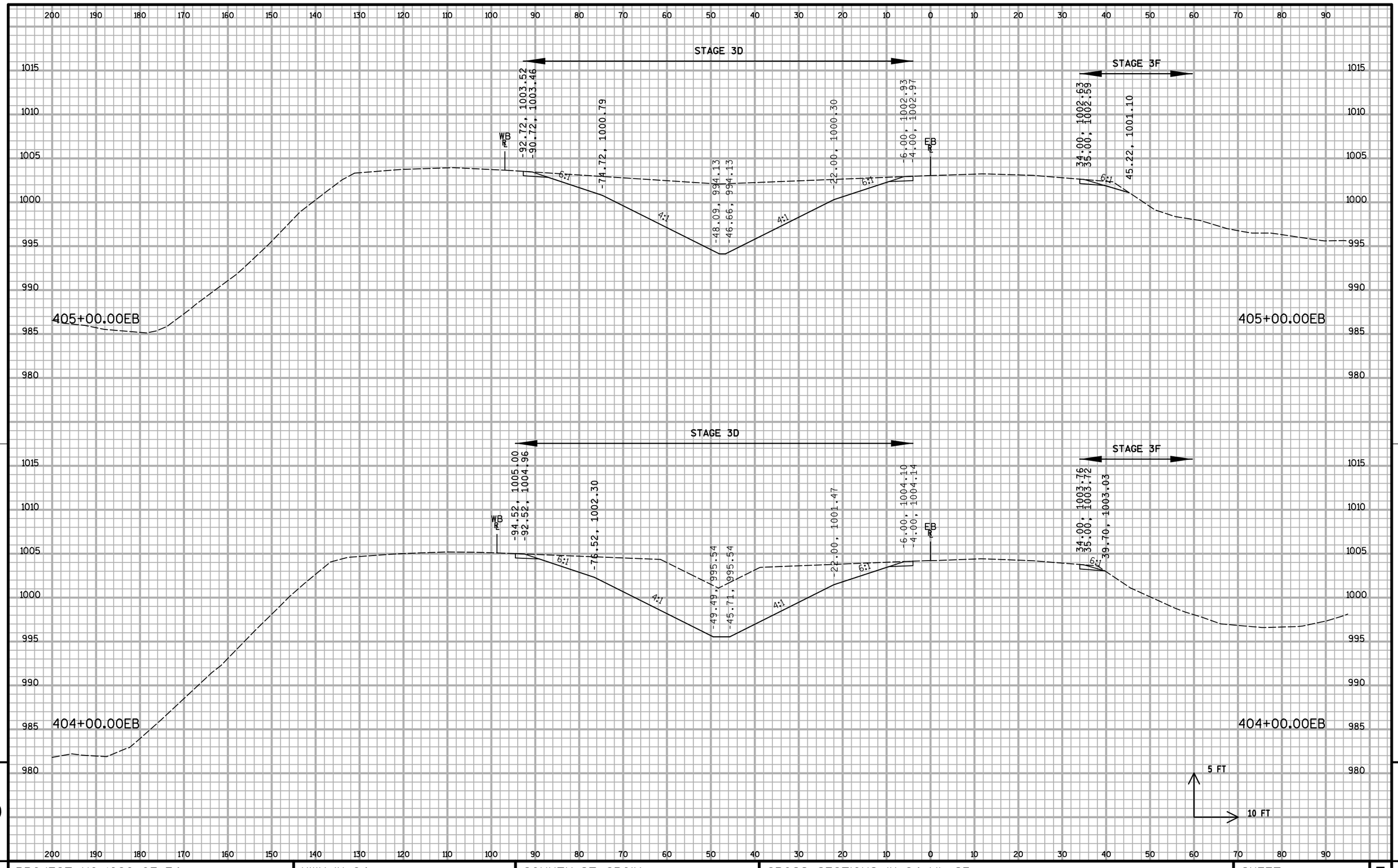
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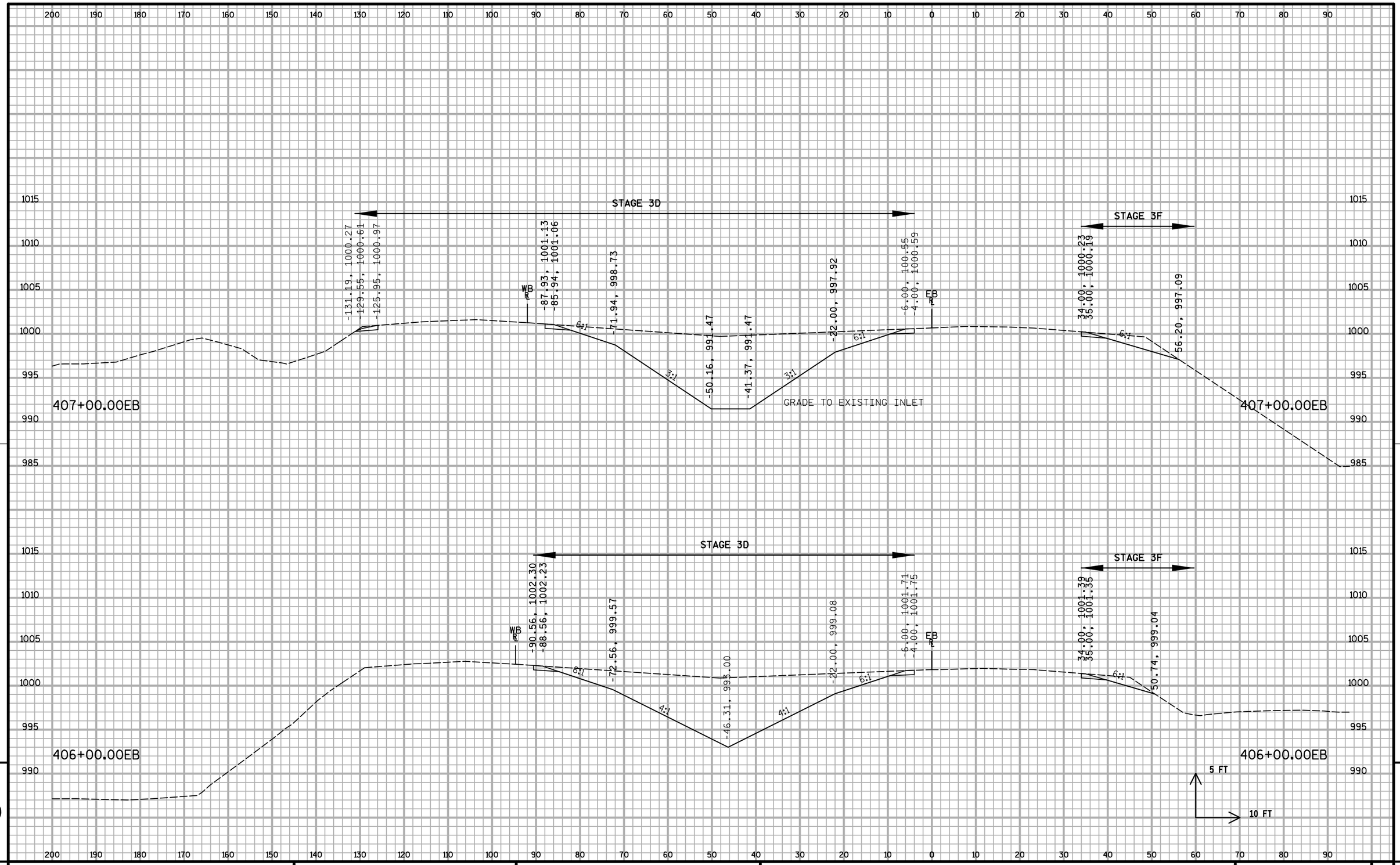
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET:	E

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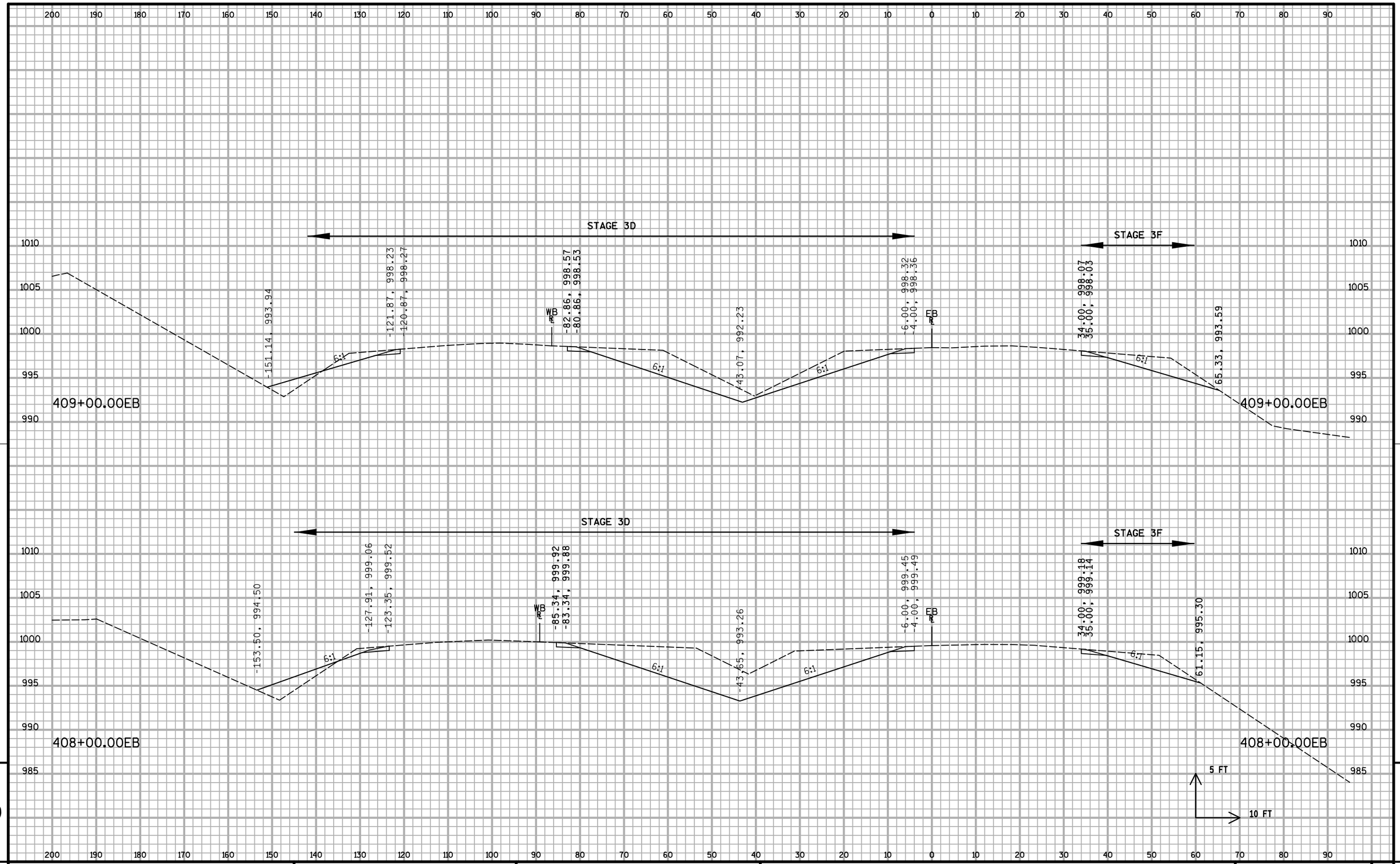
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET:	E

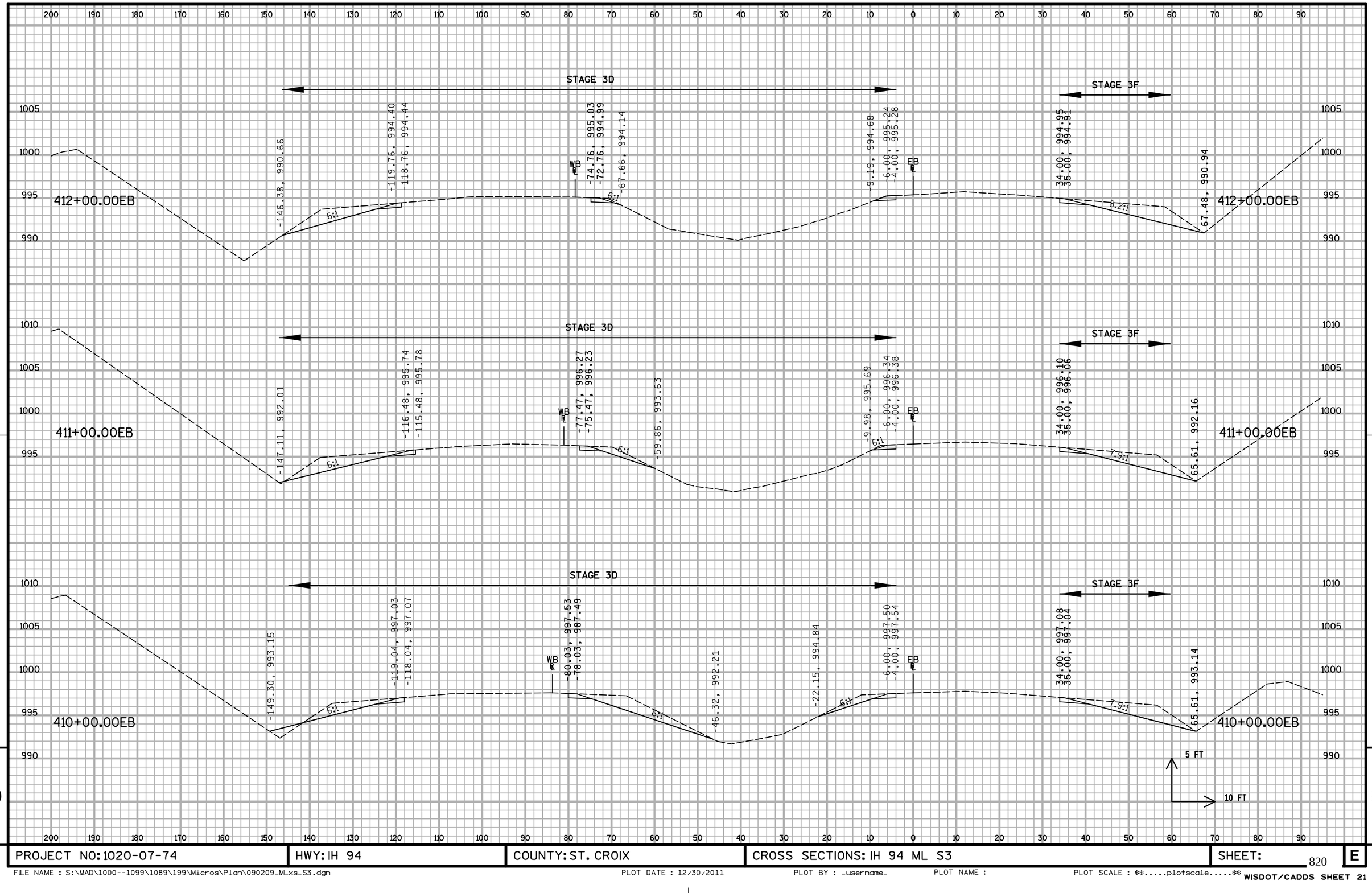
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WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET:

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

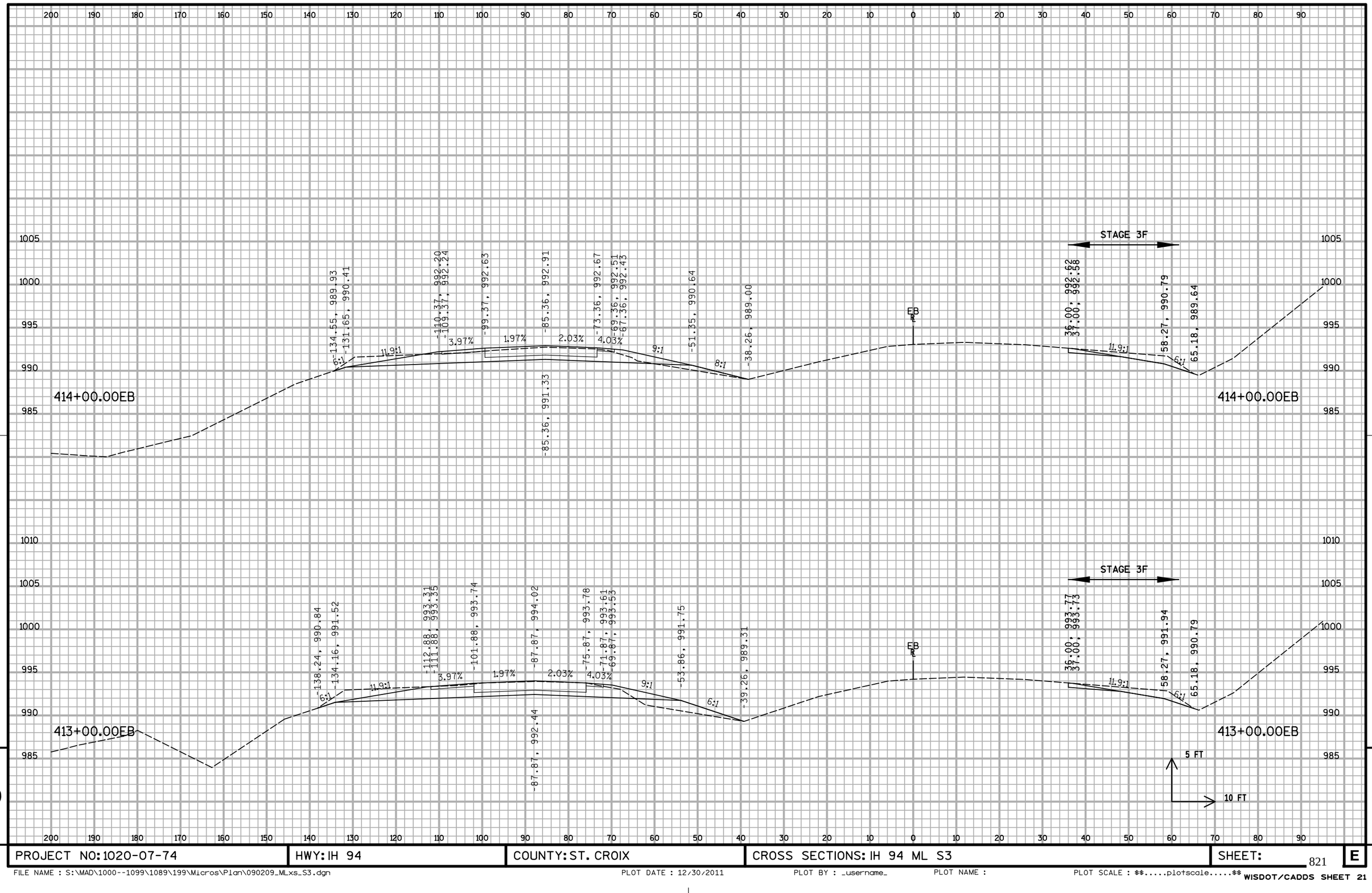


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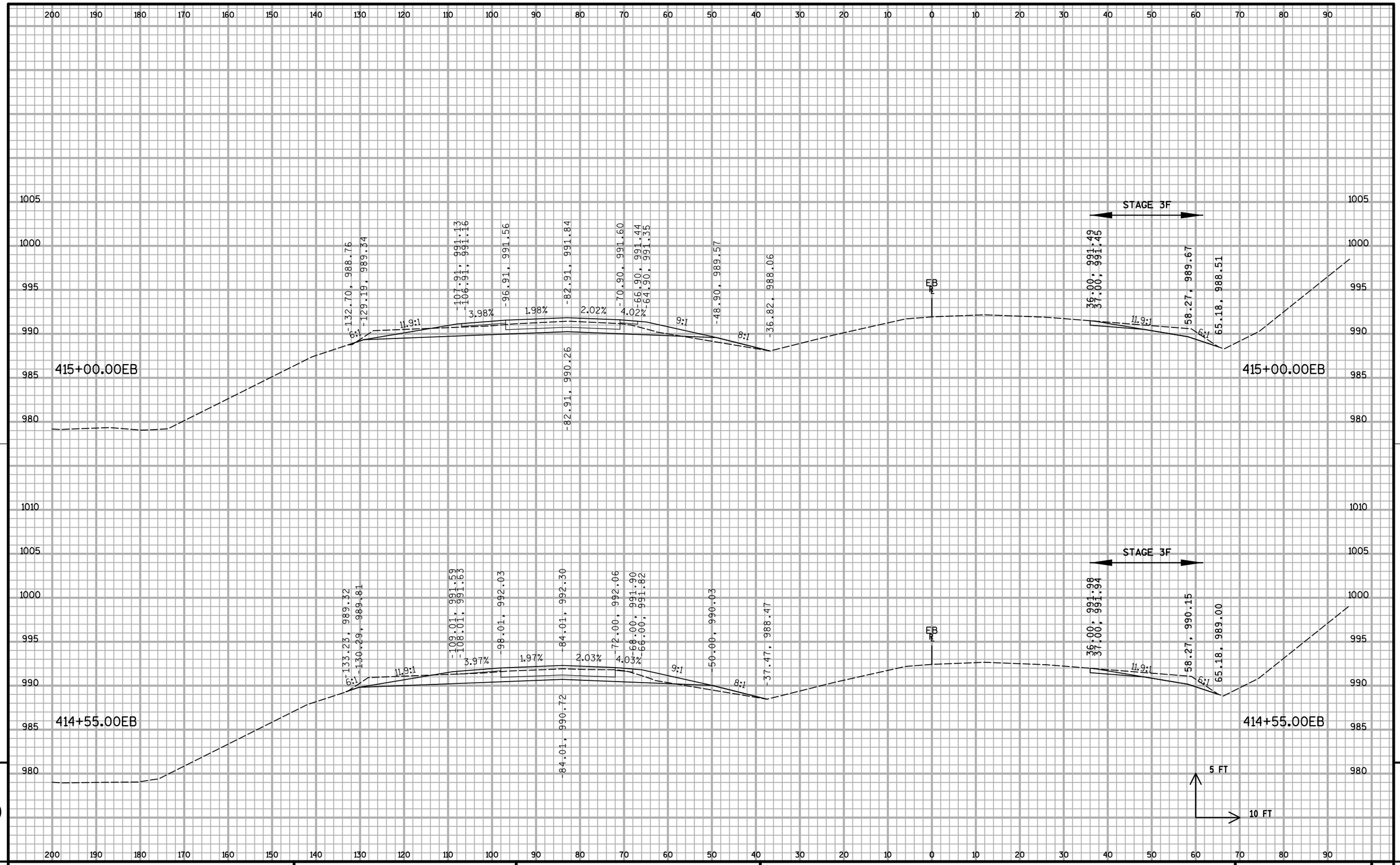
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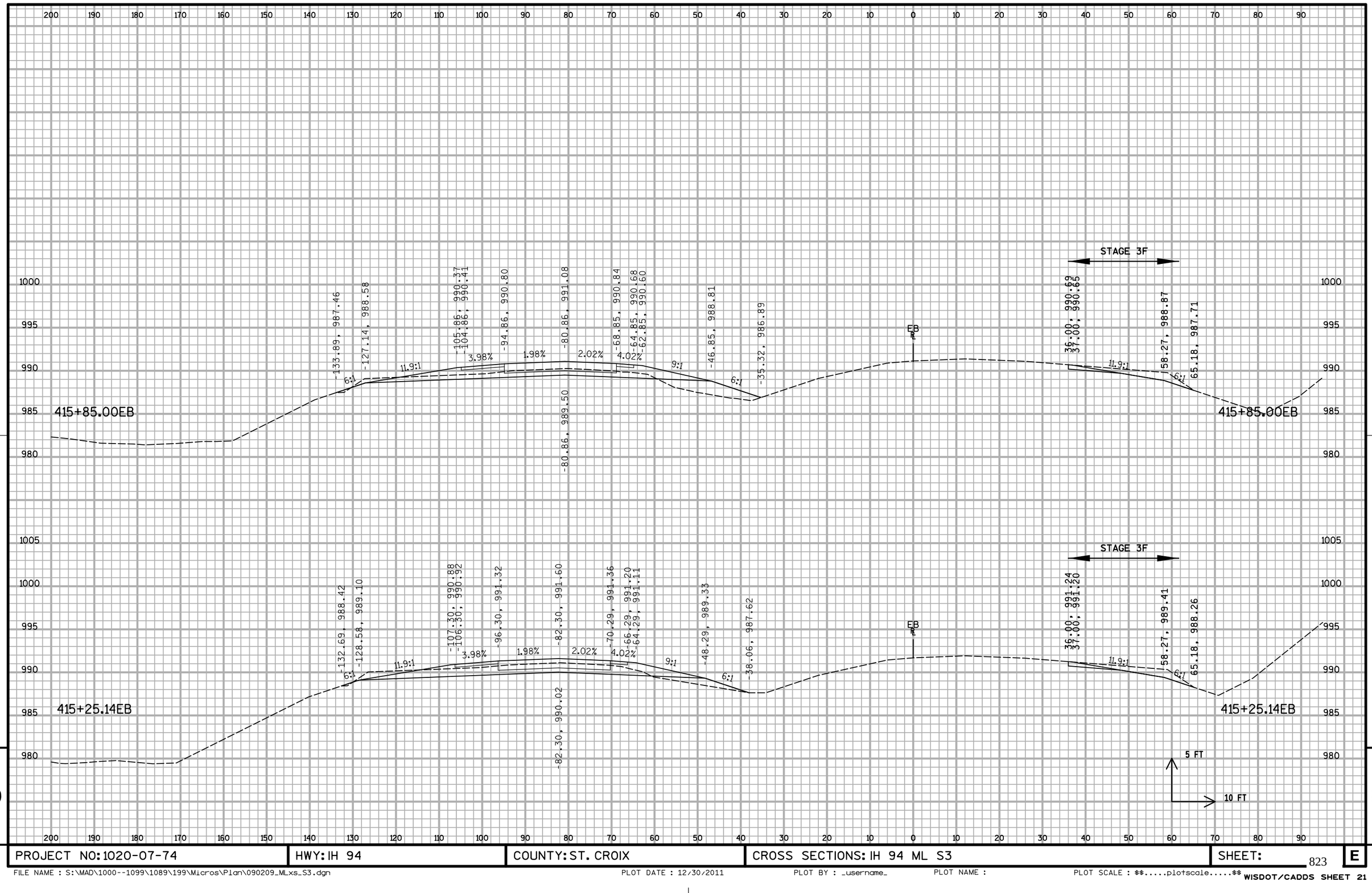
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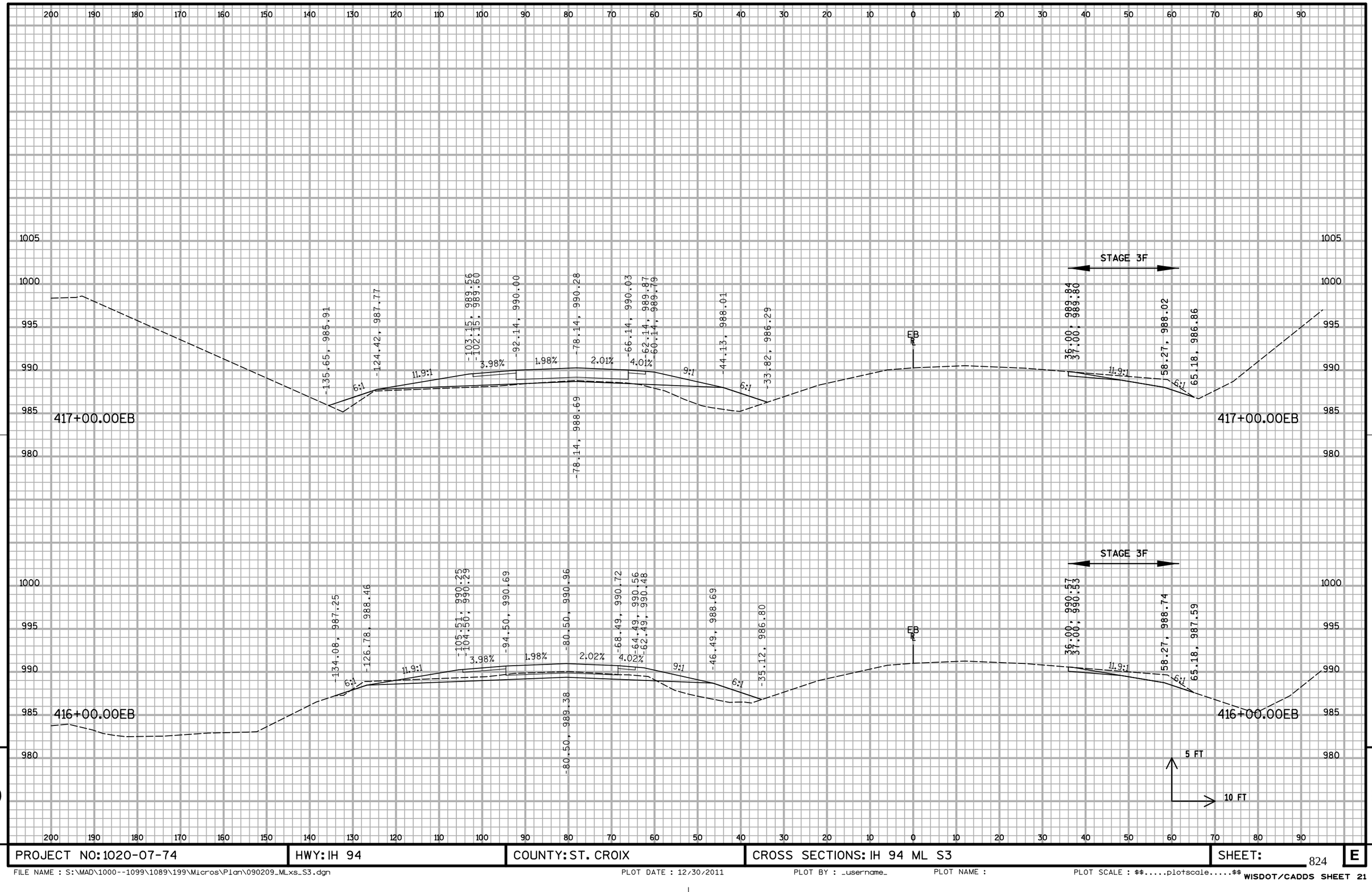
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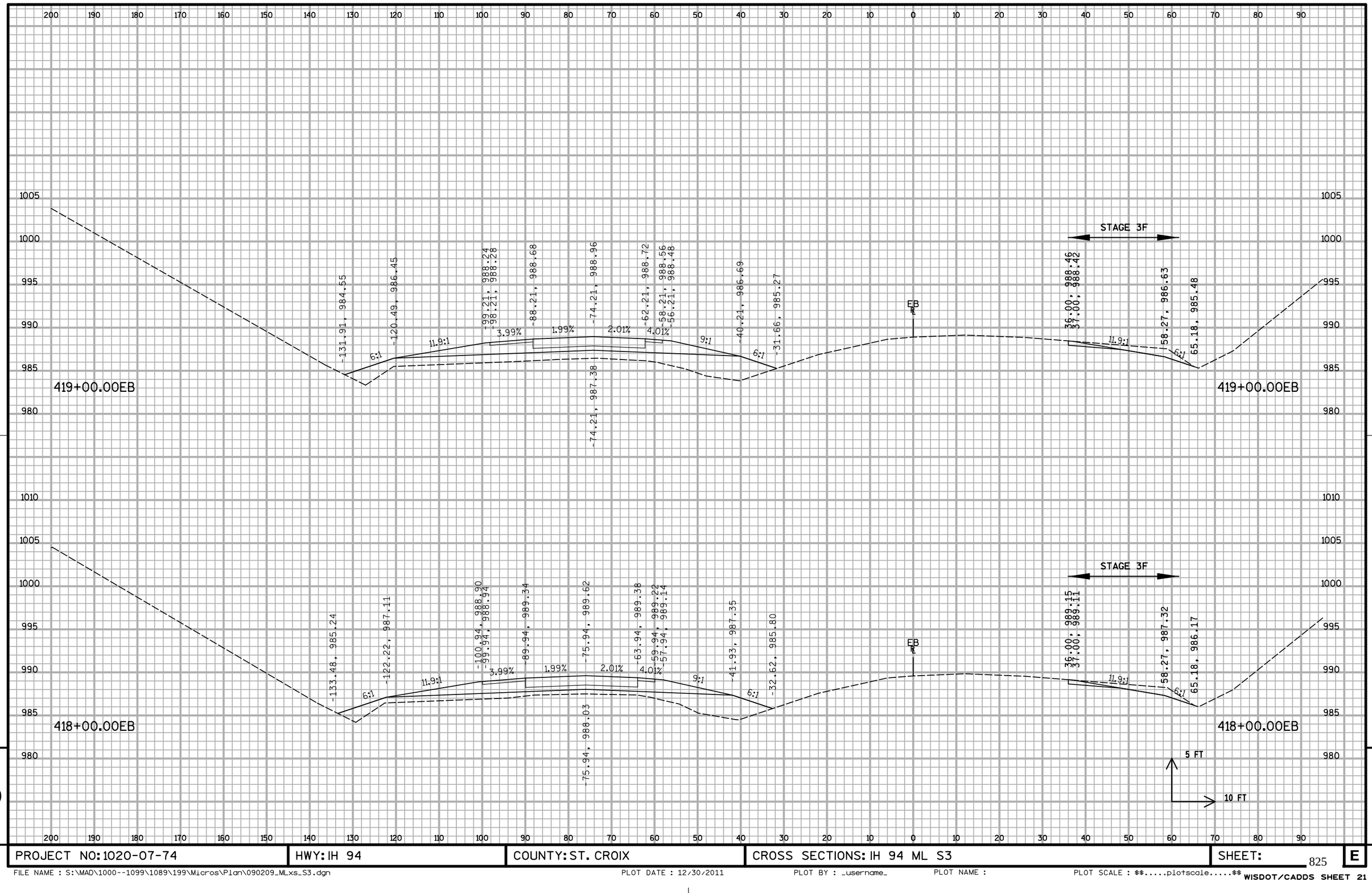
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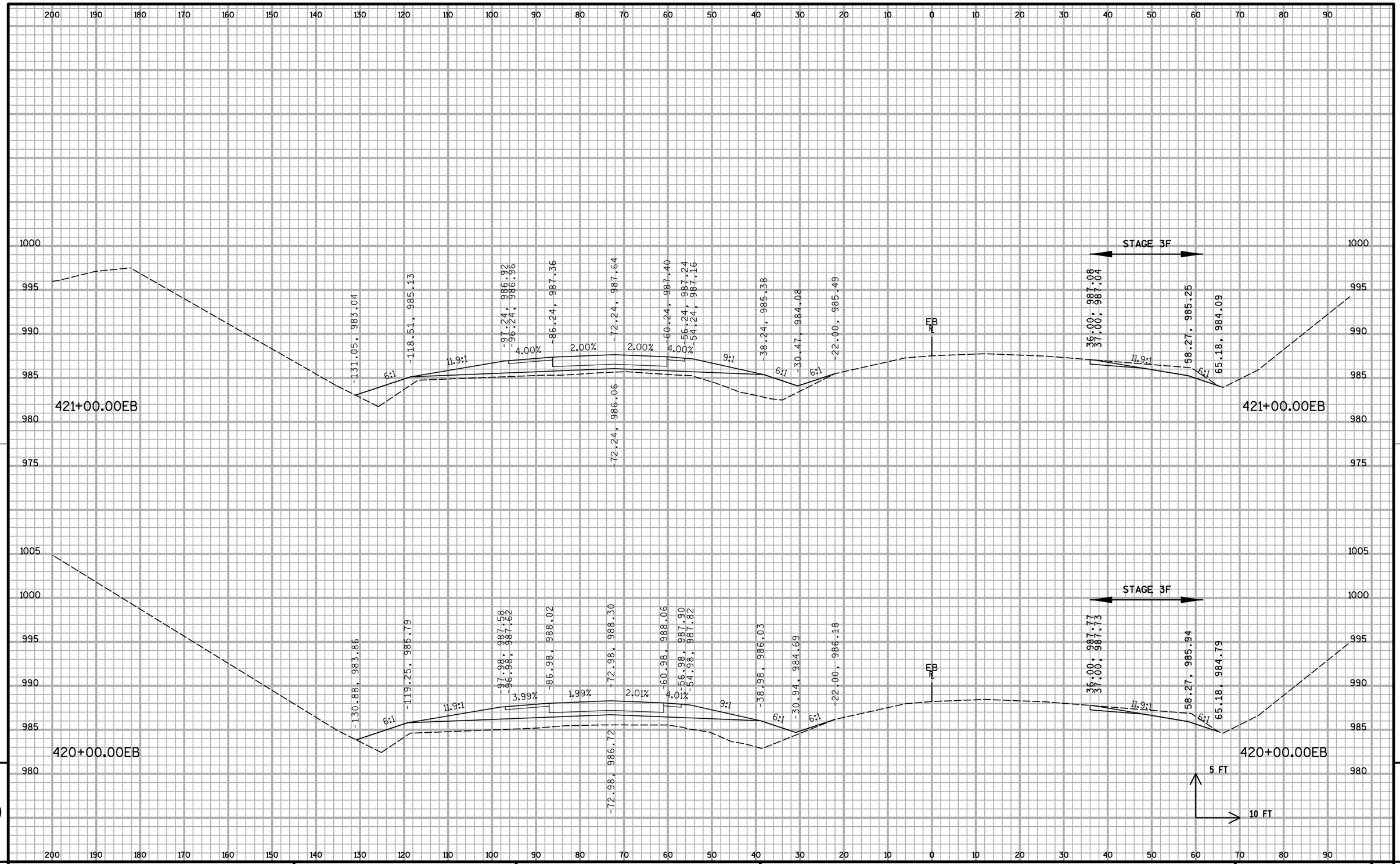
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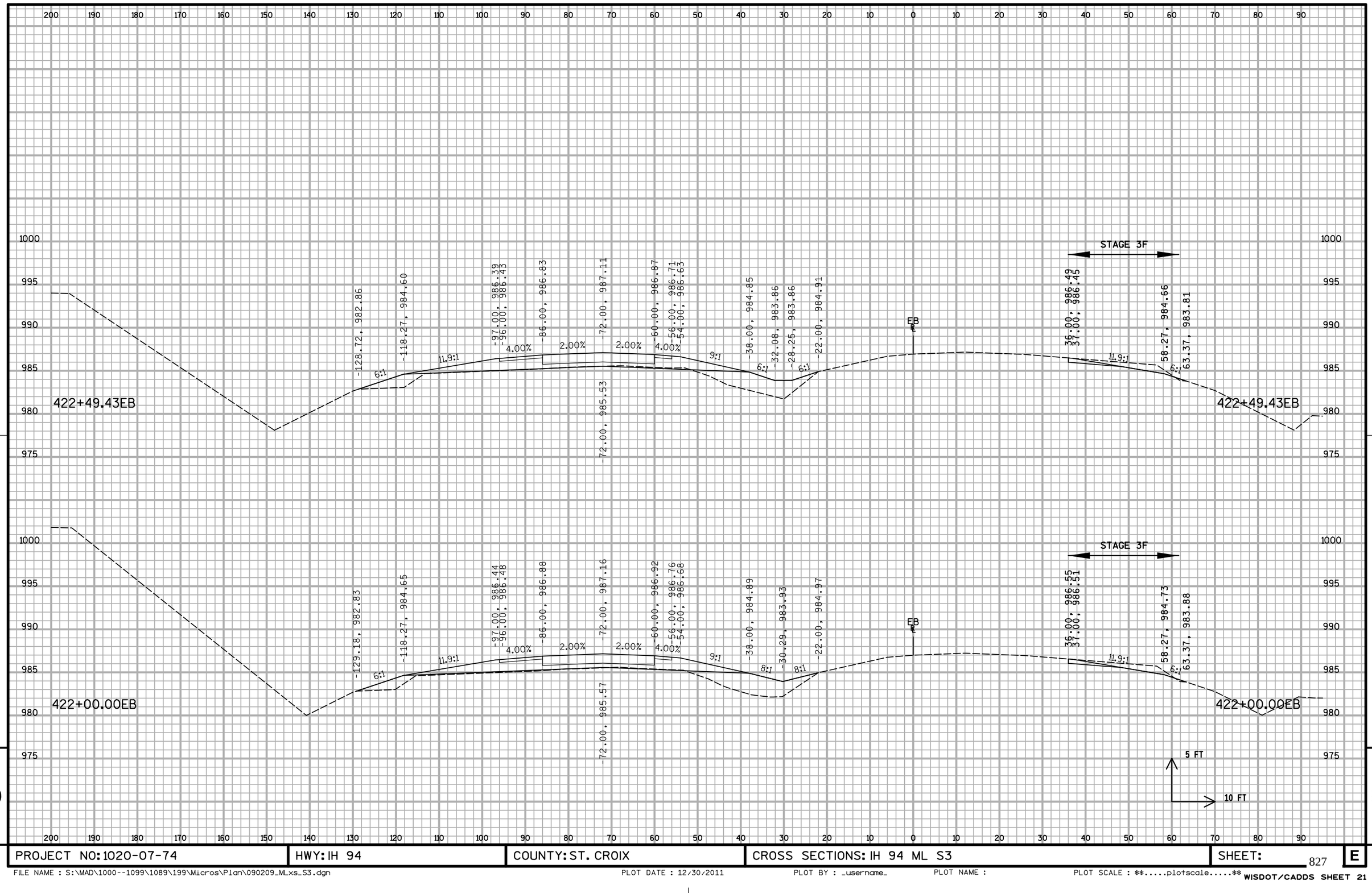
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



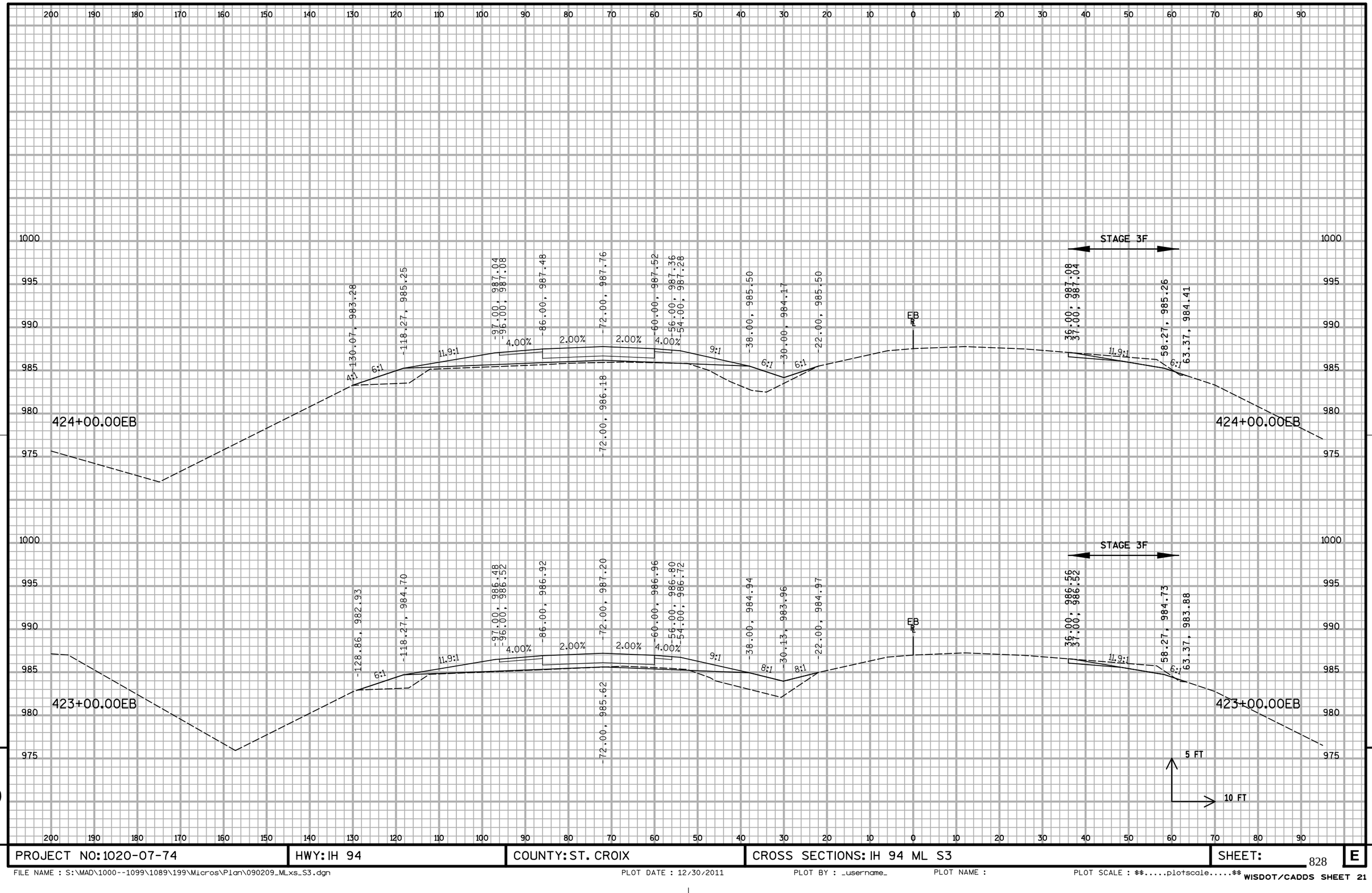
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET:	E

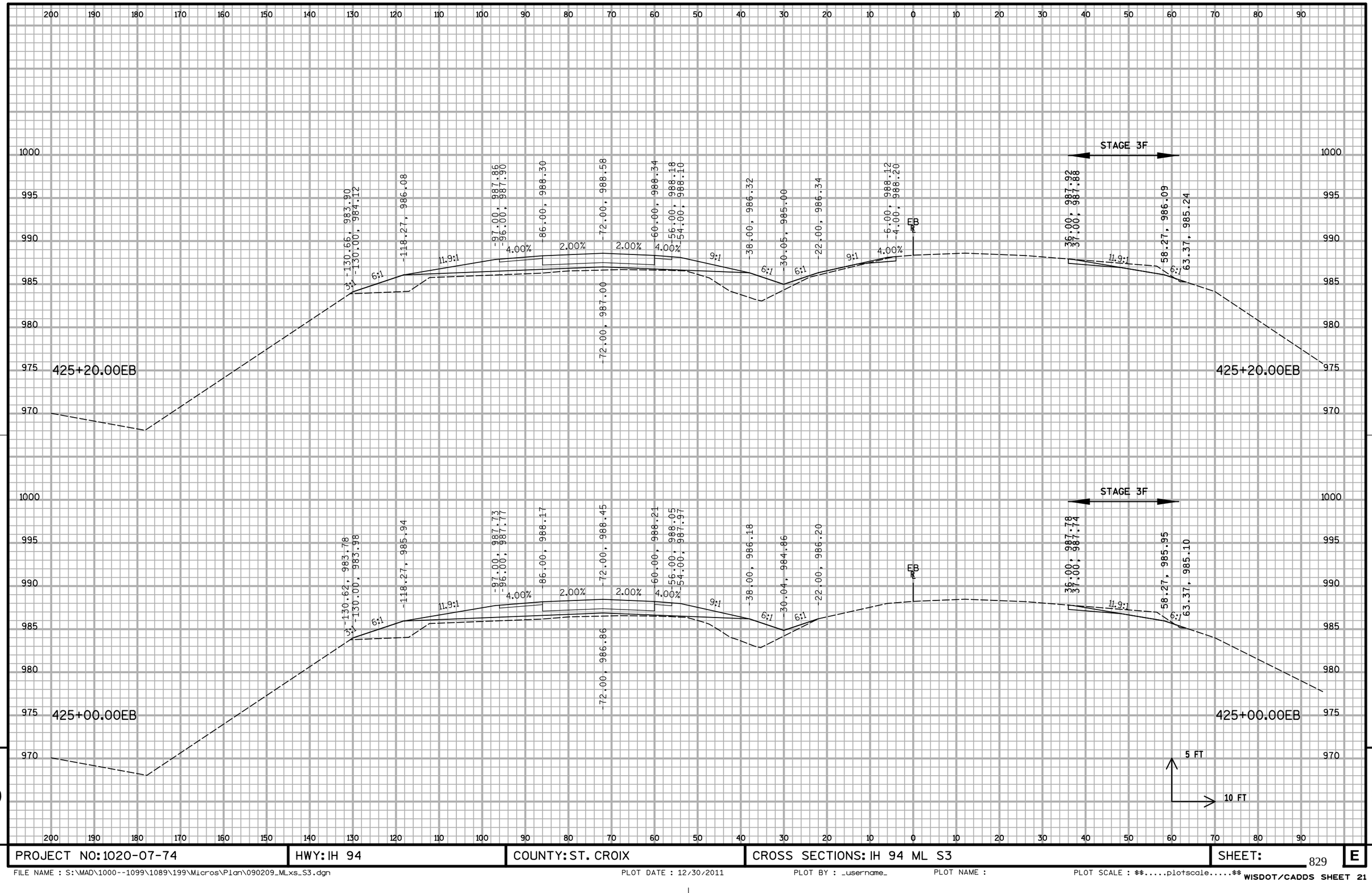
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET:	E

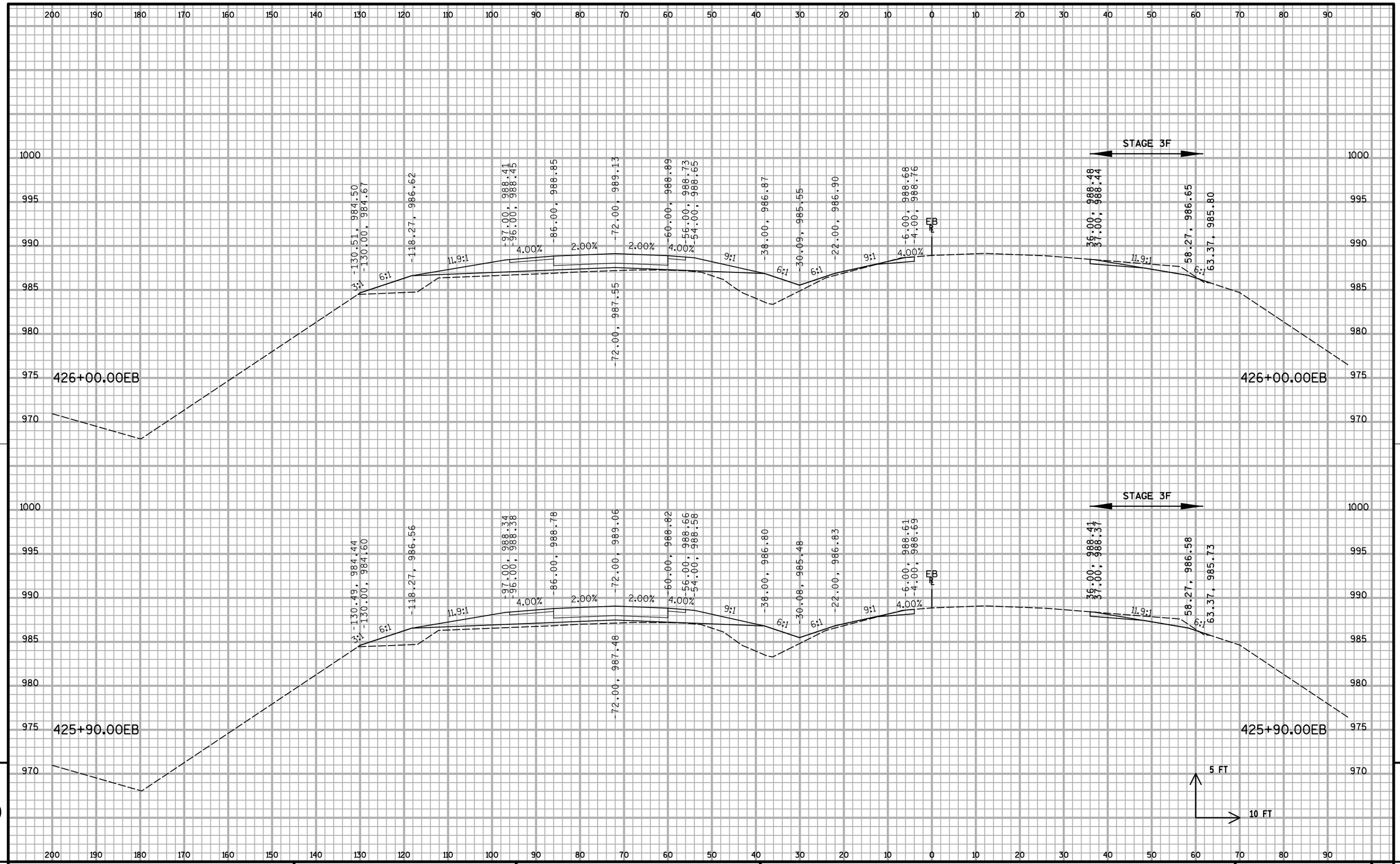
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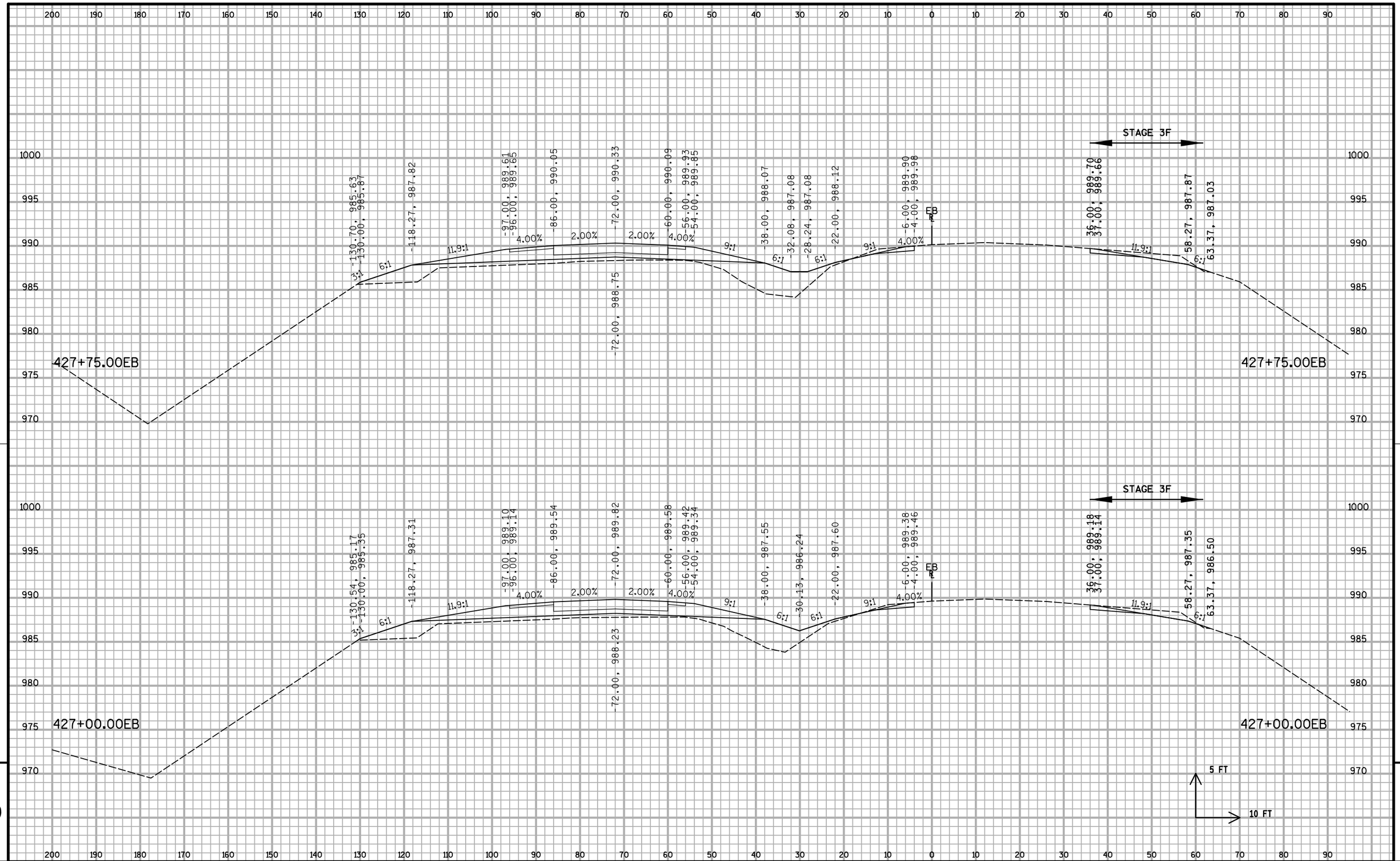
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

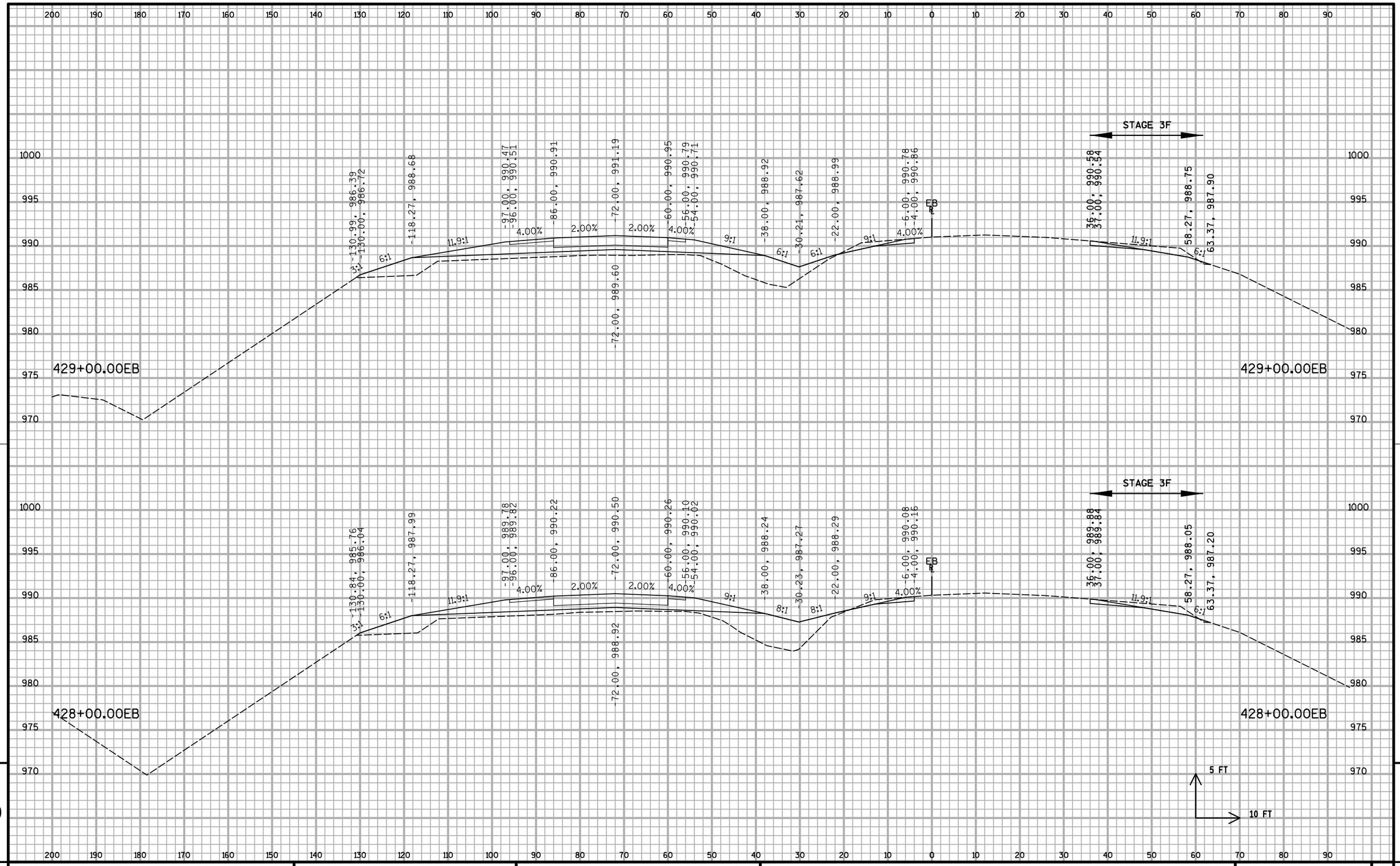


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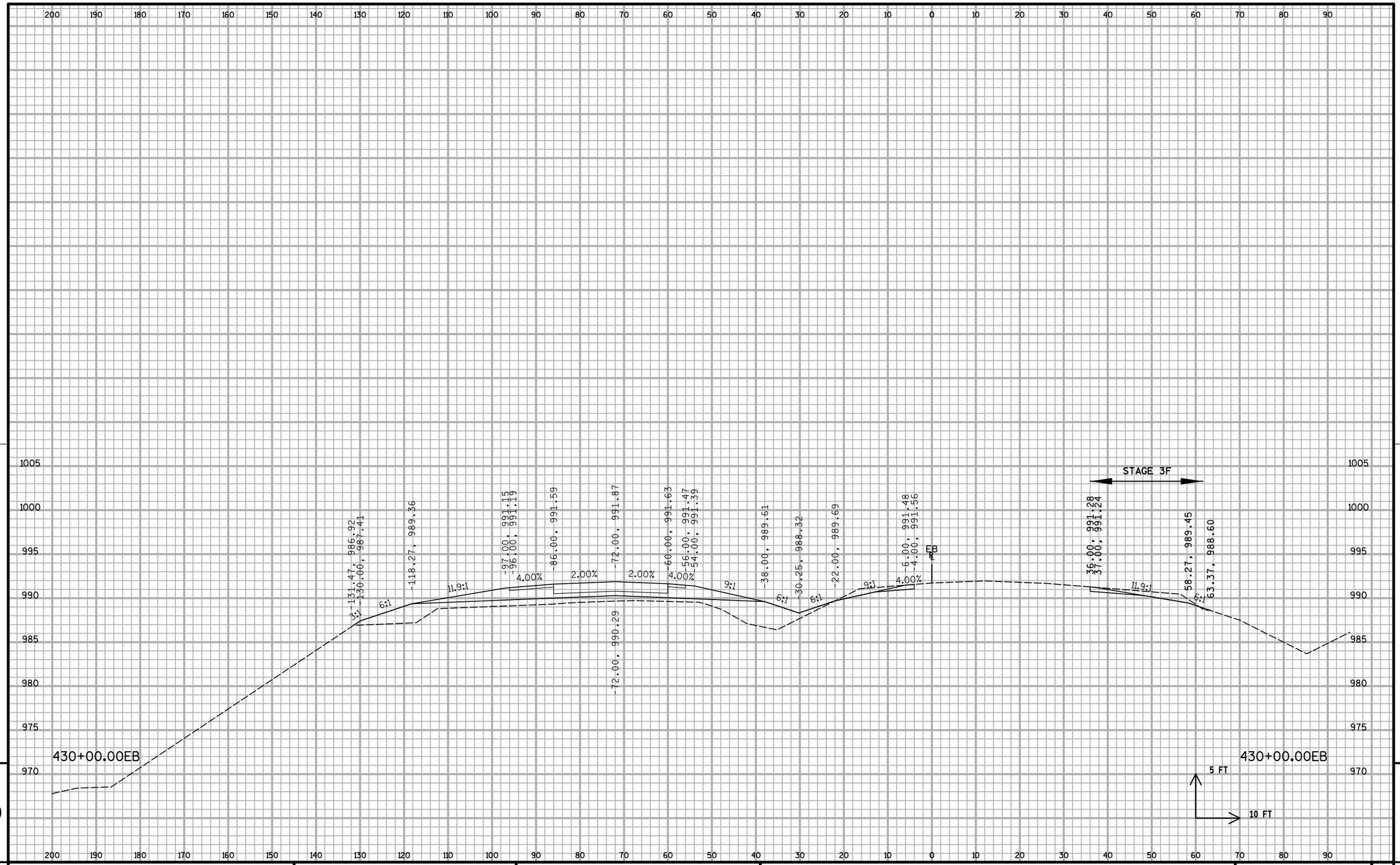
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

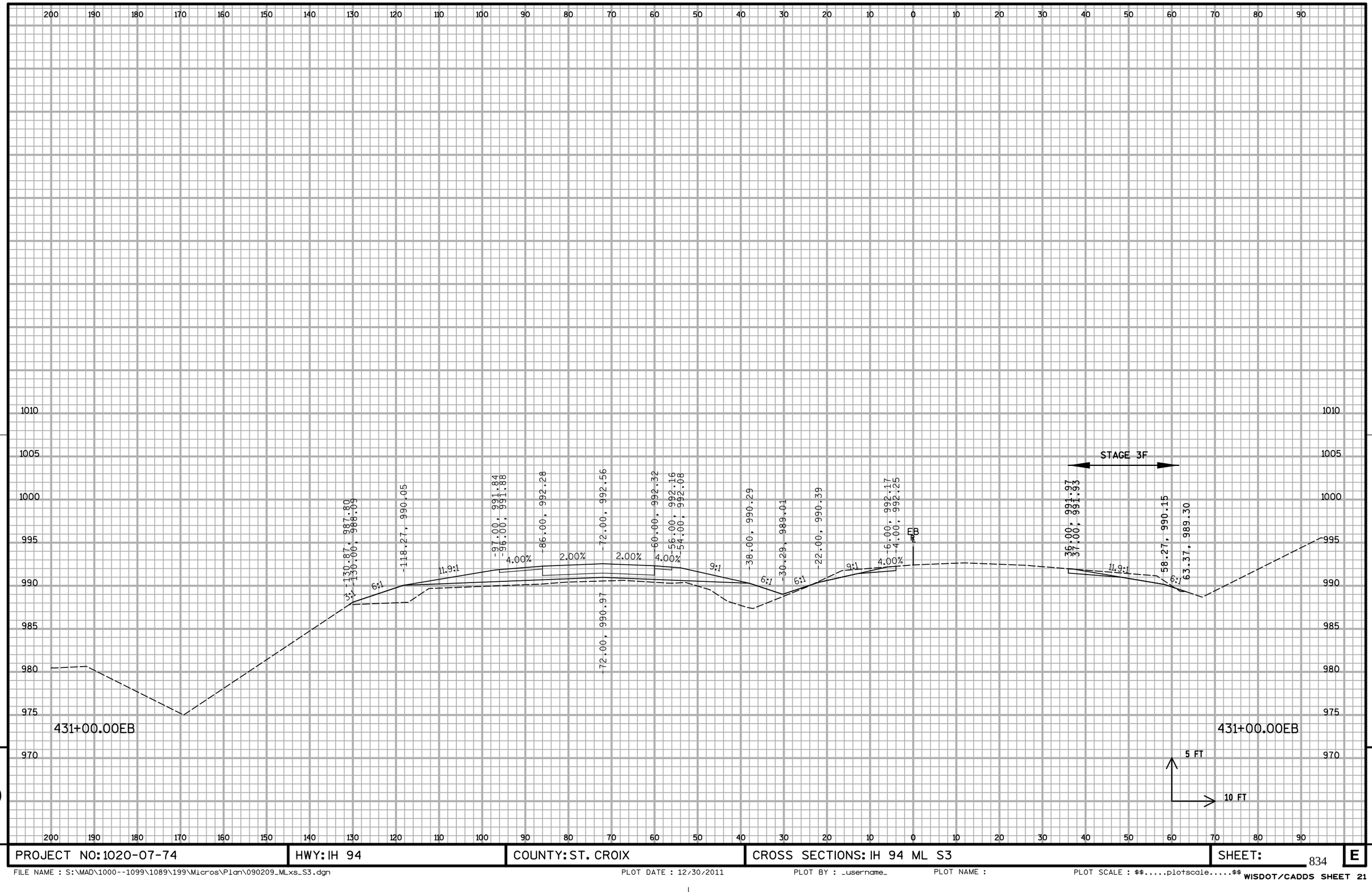


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

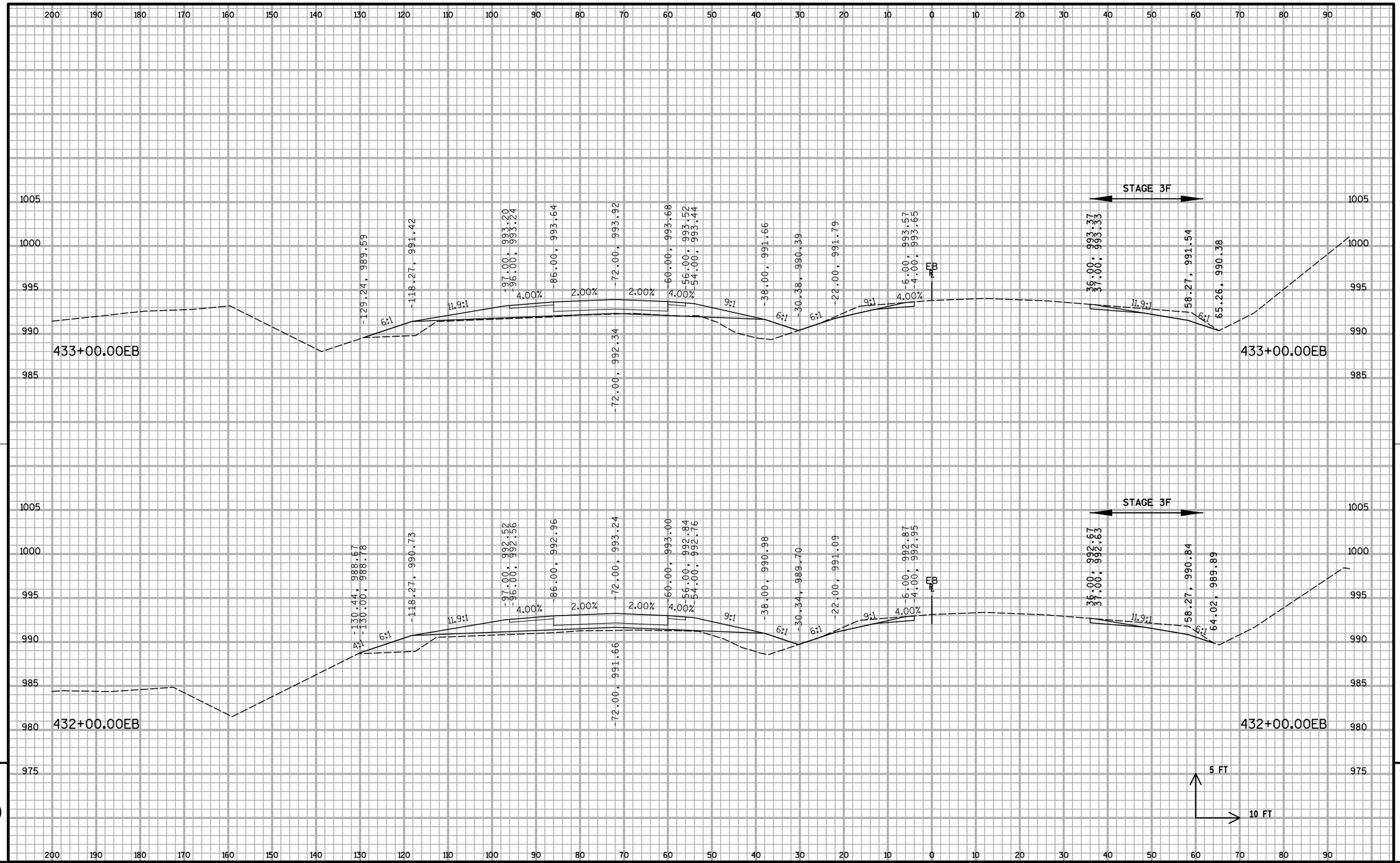


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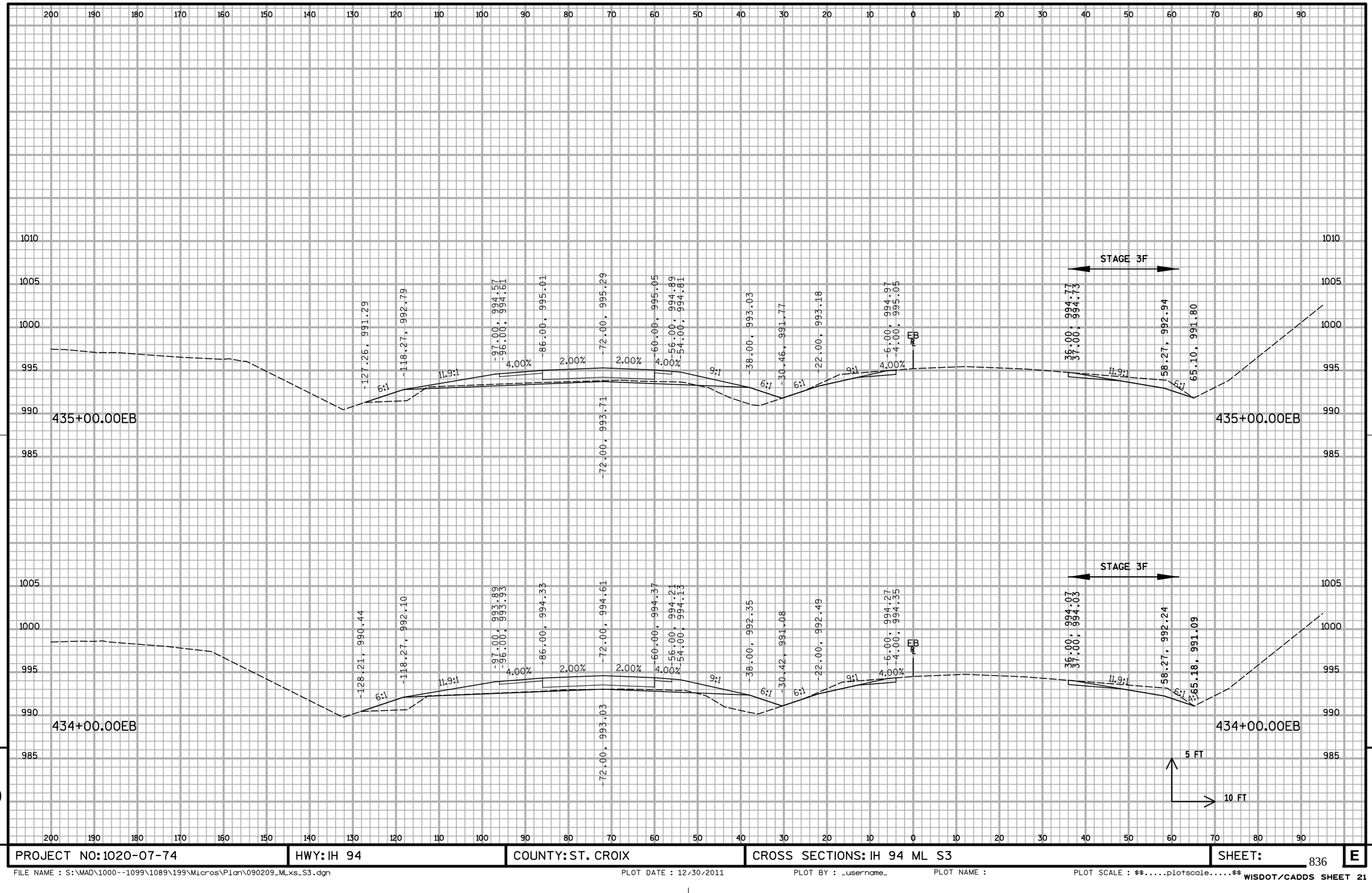
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



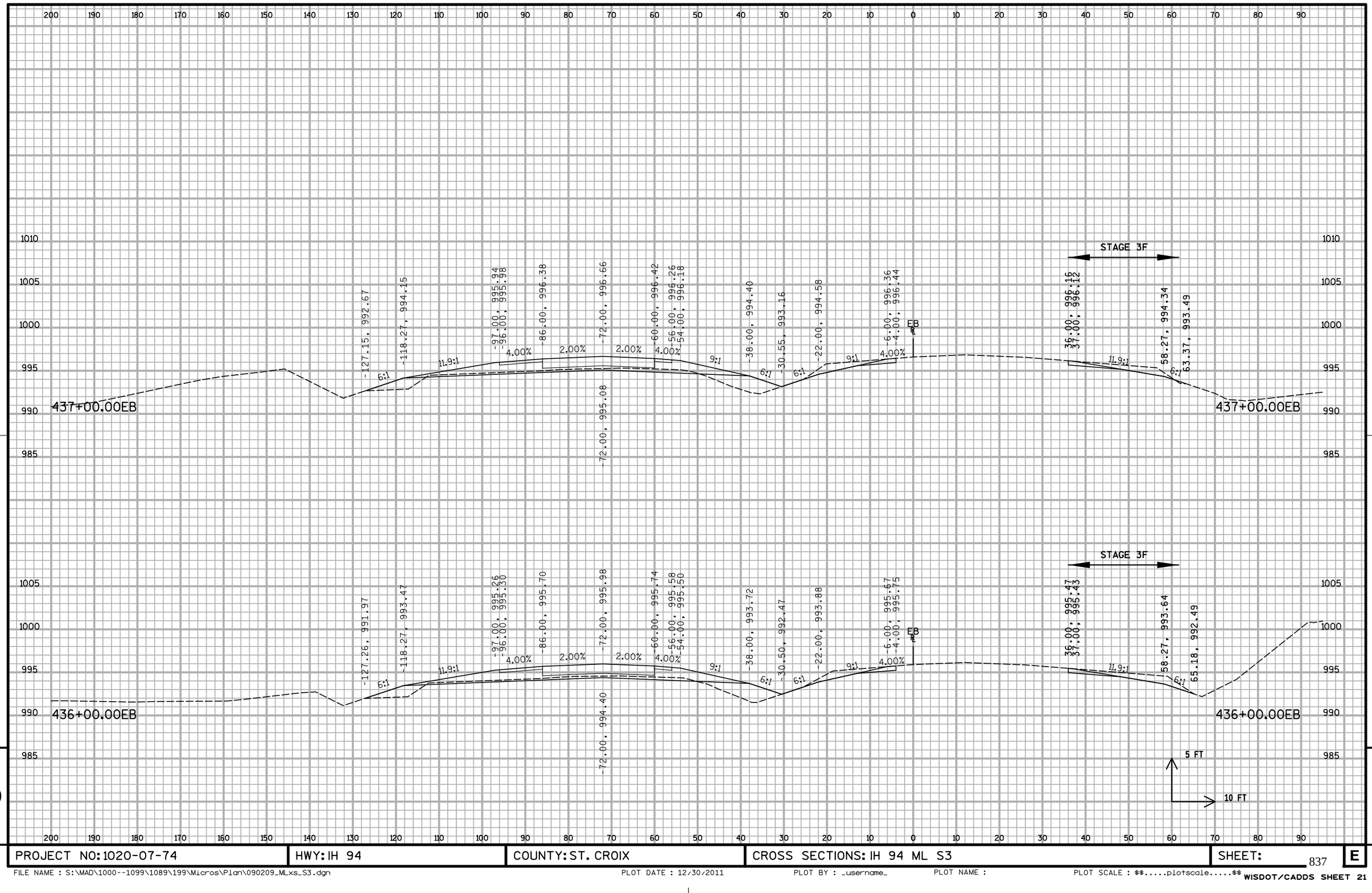
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



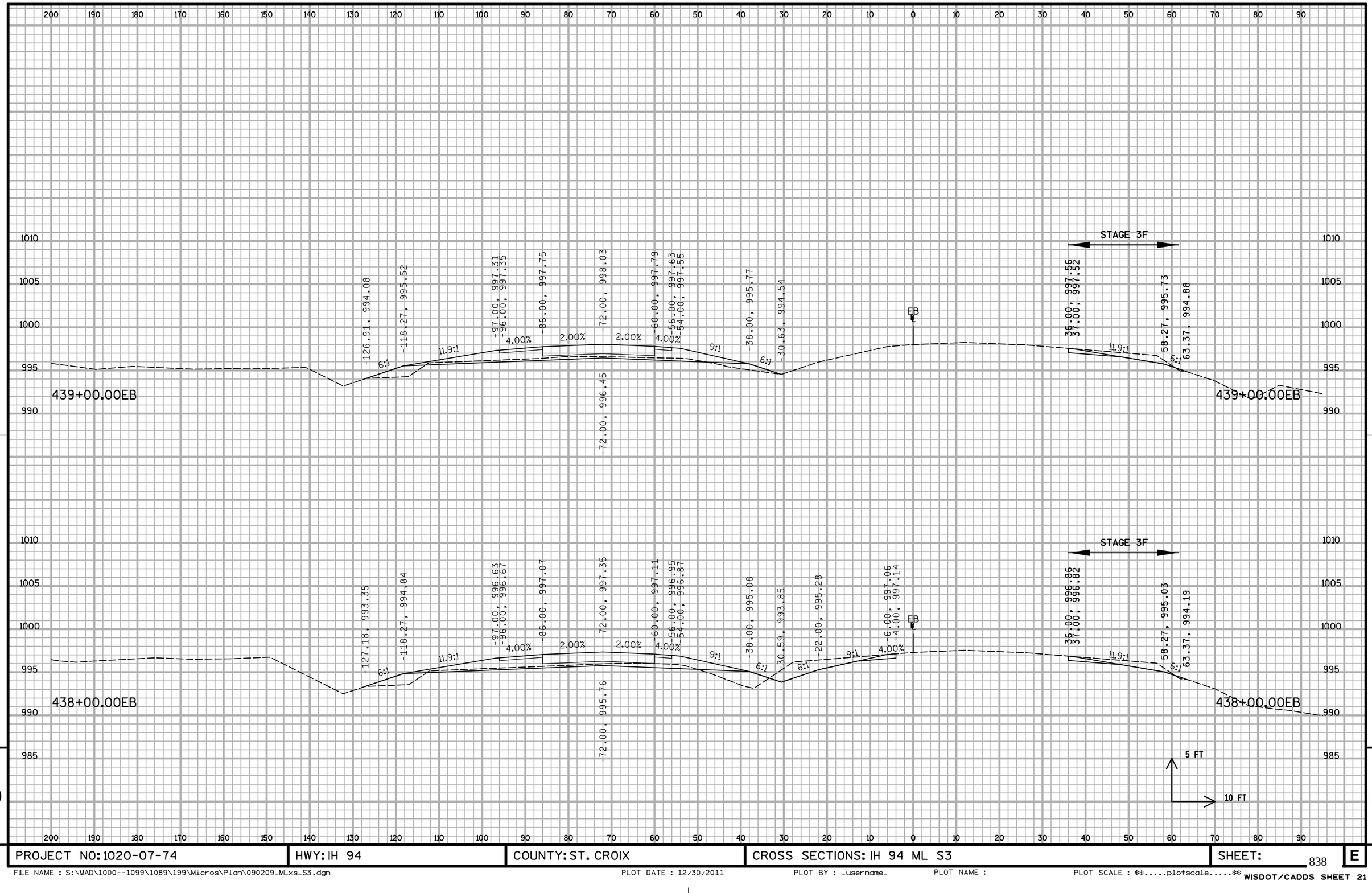
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



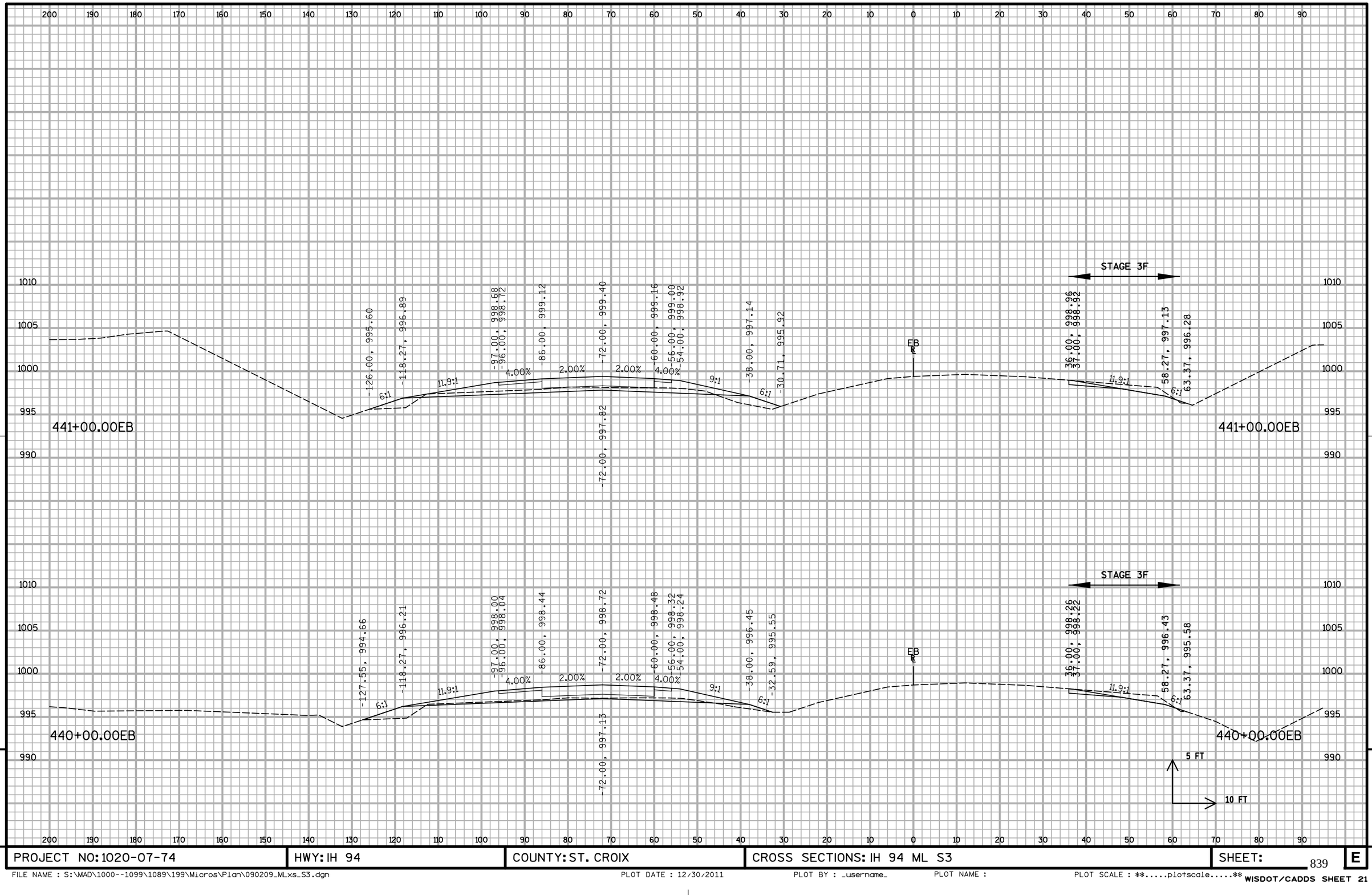
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



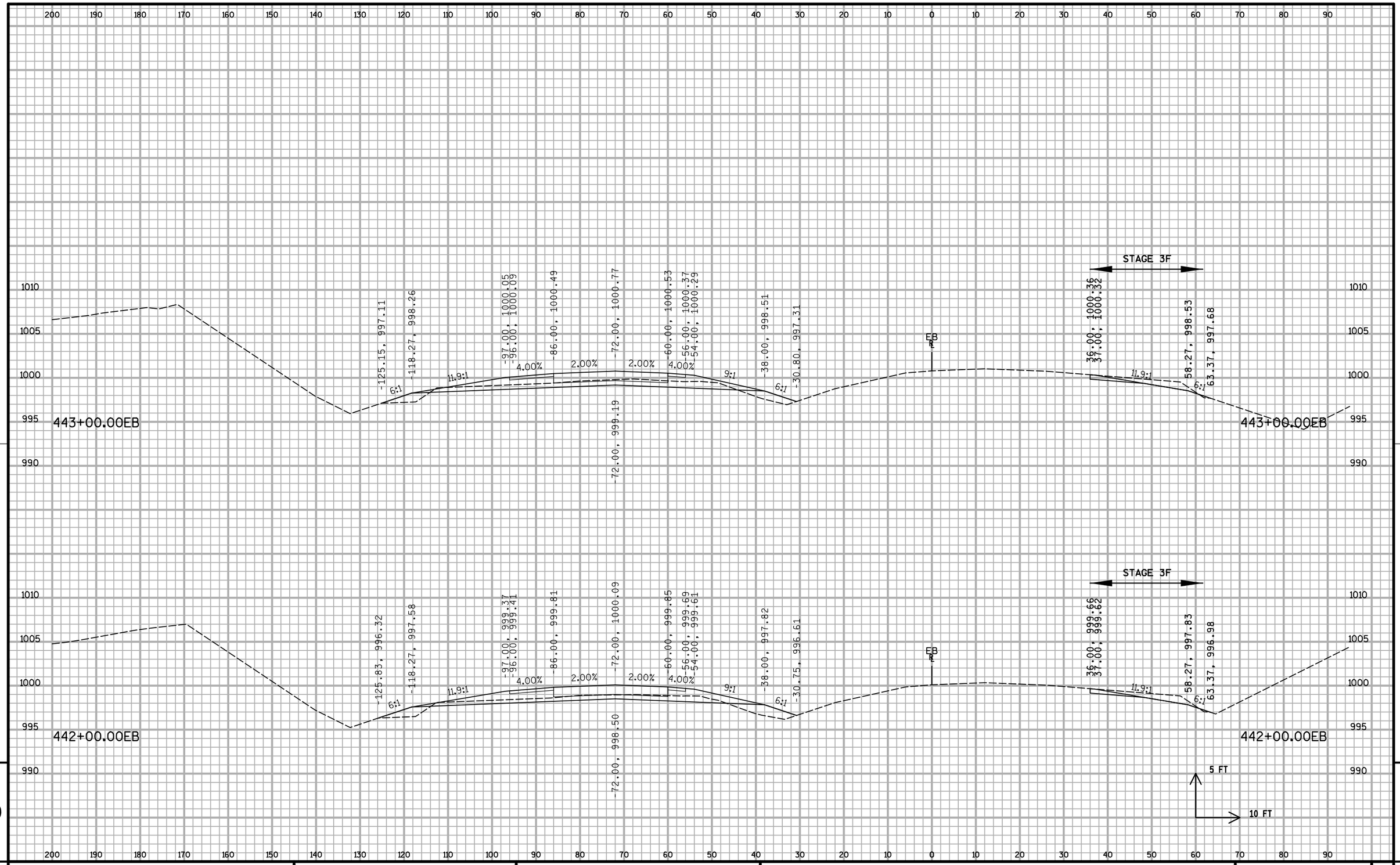
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



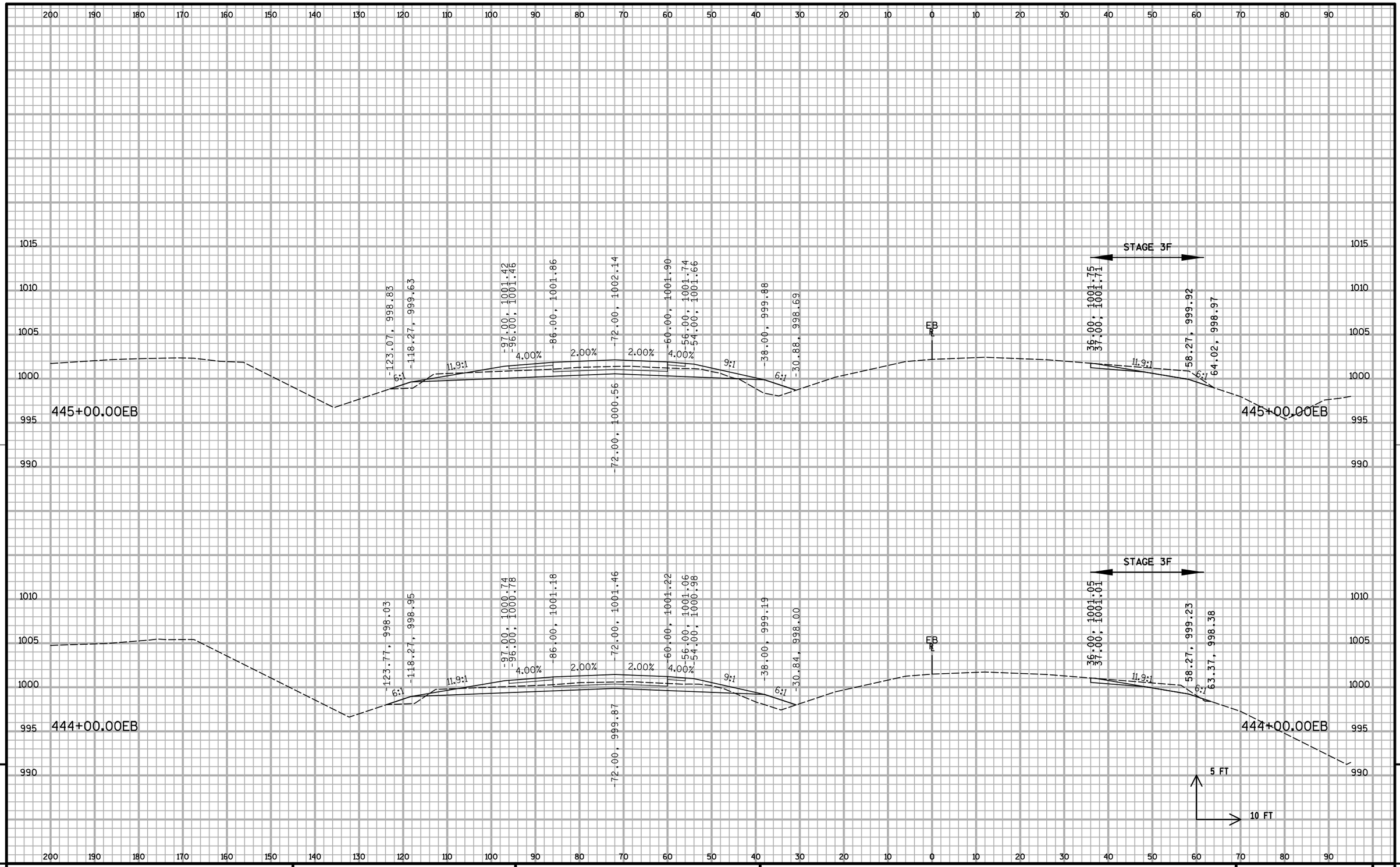
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



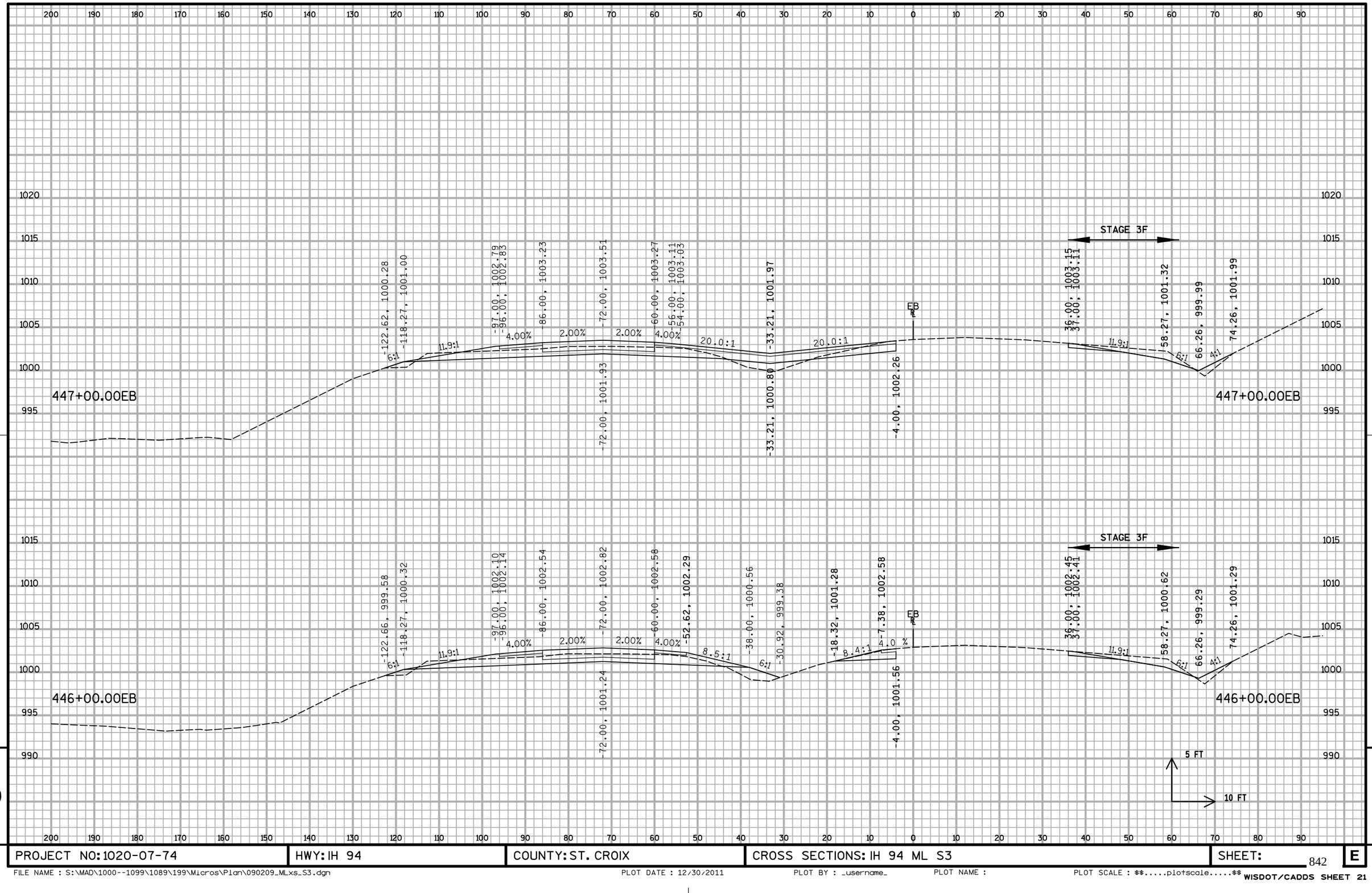
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



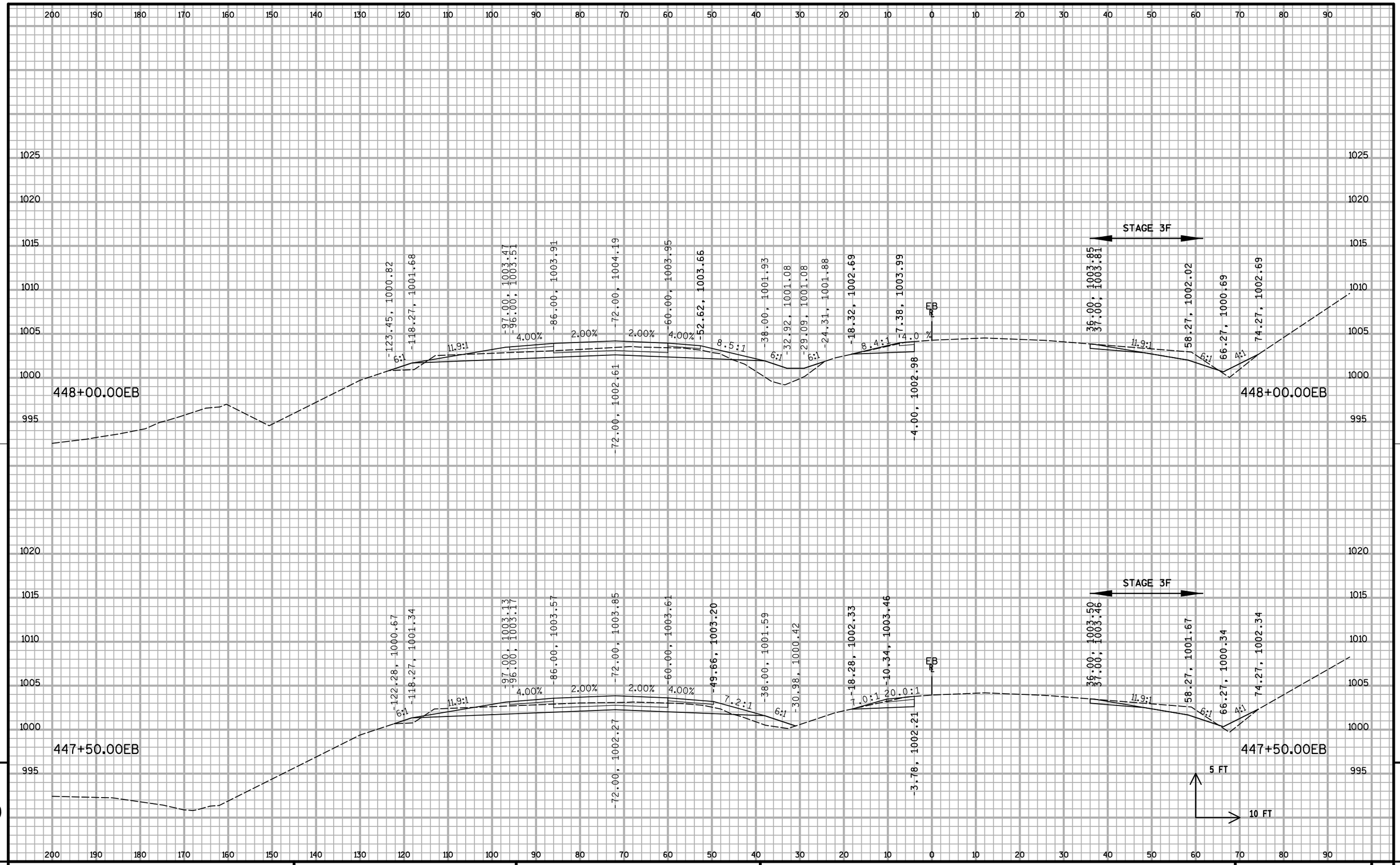
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET: E

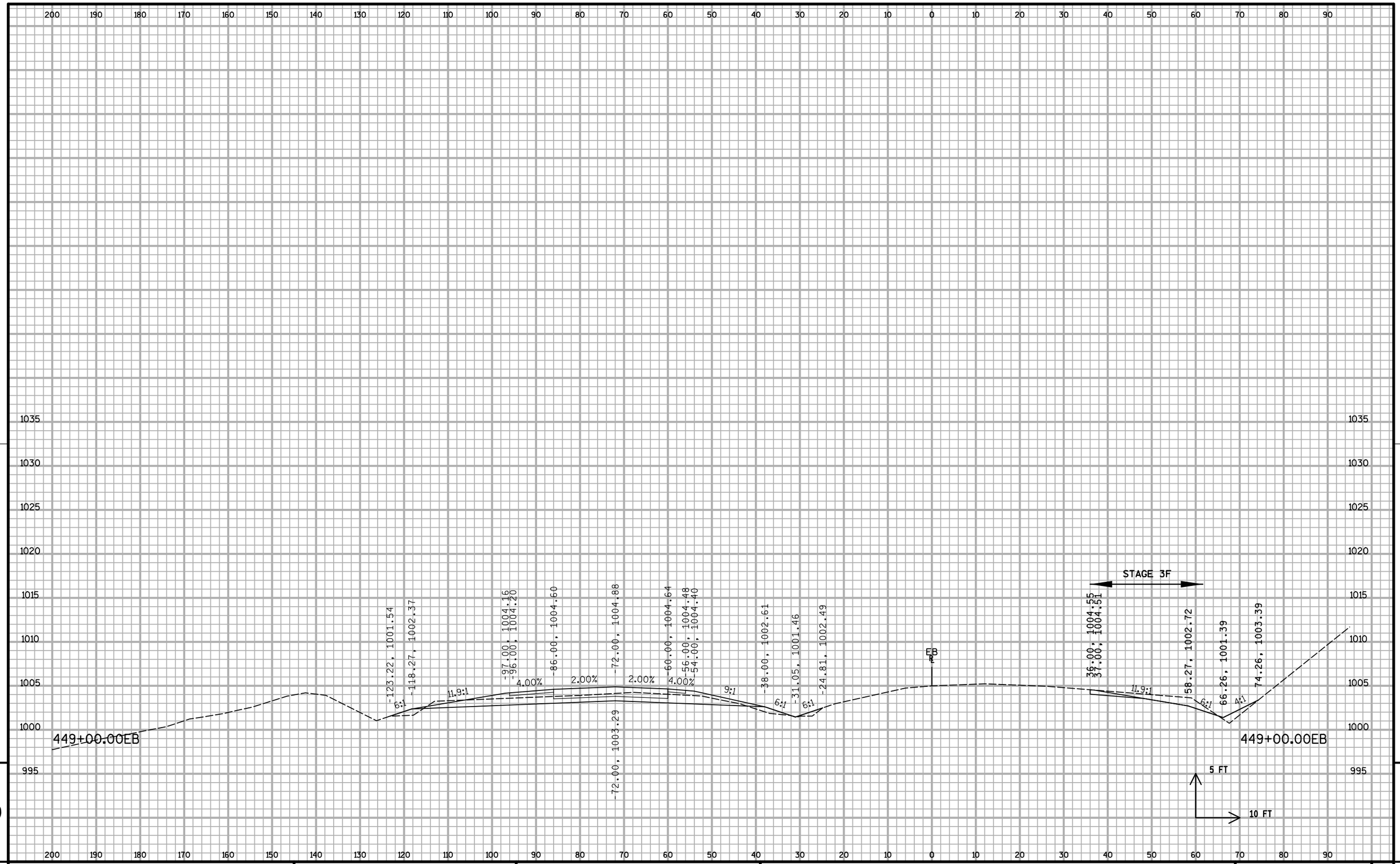
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET: 843	E

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WISDOT/CADDS SHEET 21

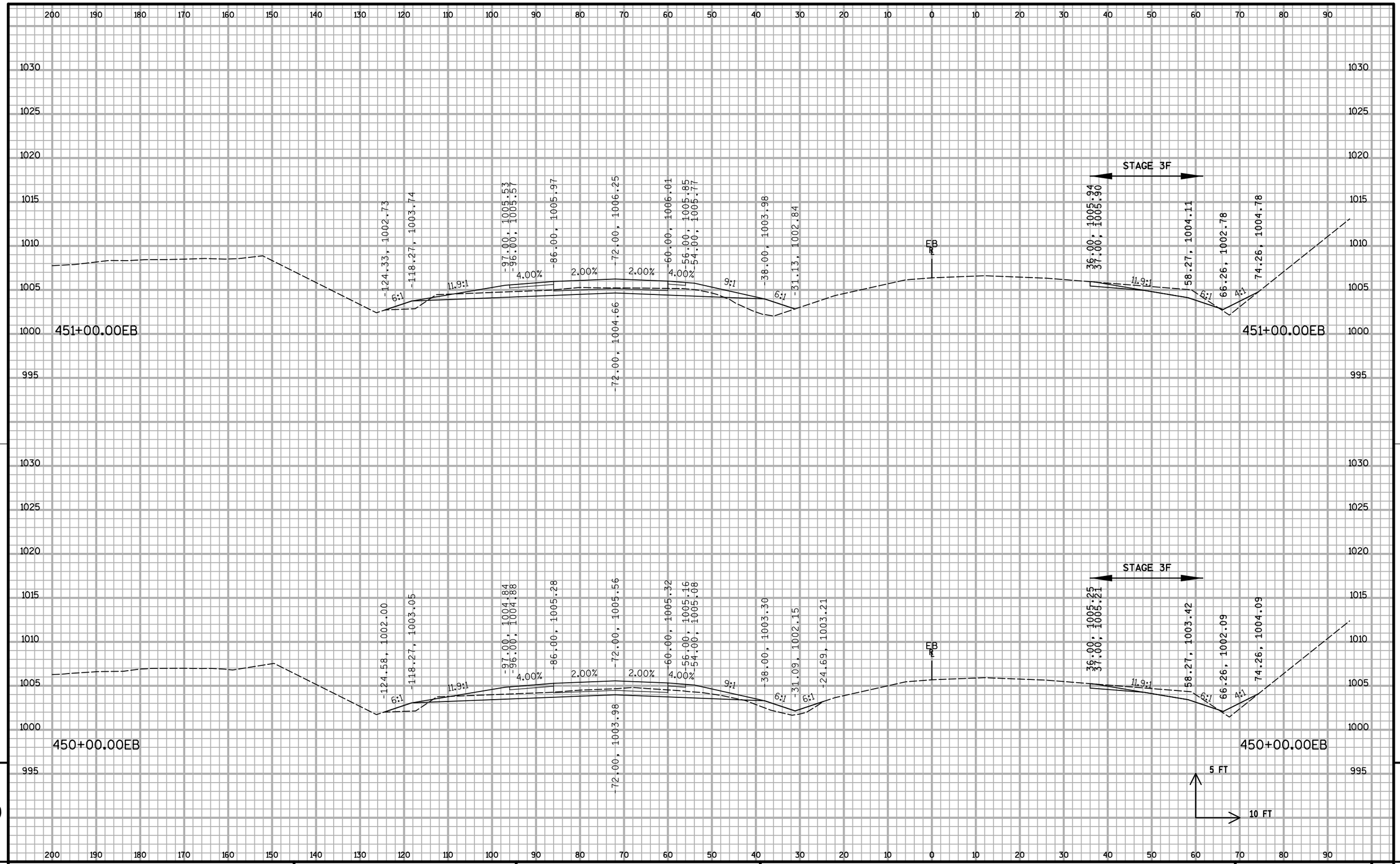


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET: 844	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

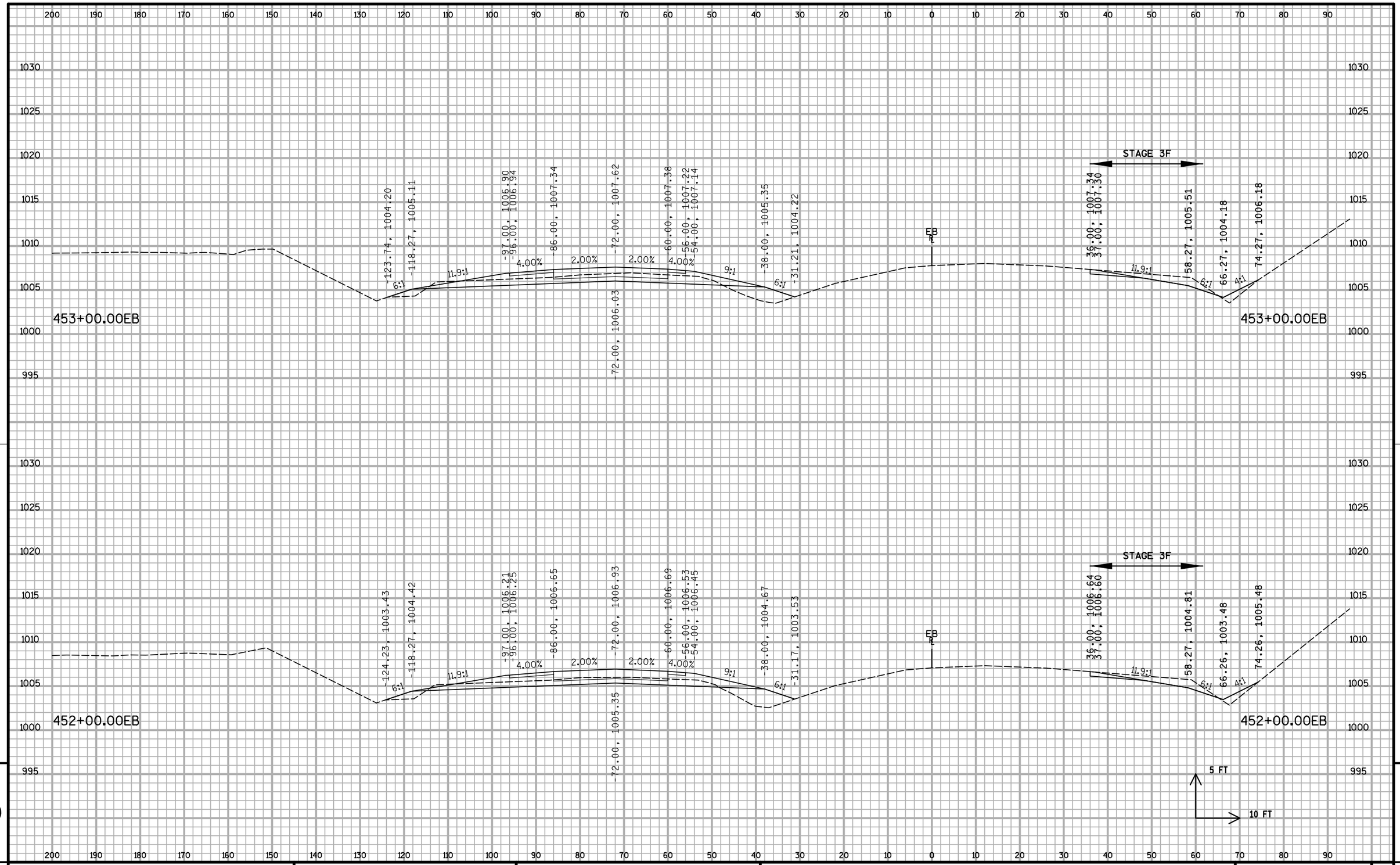


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

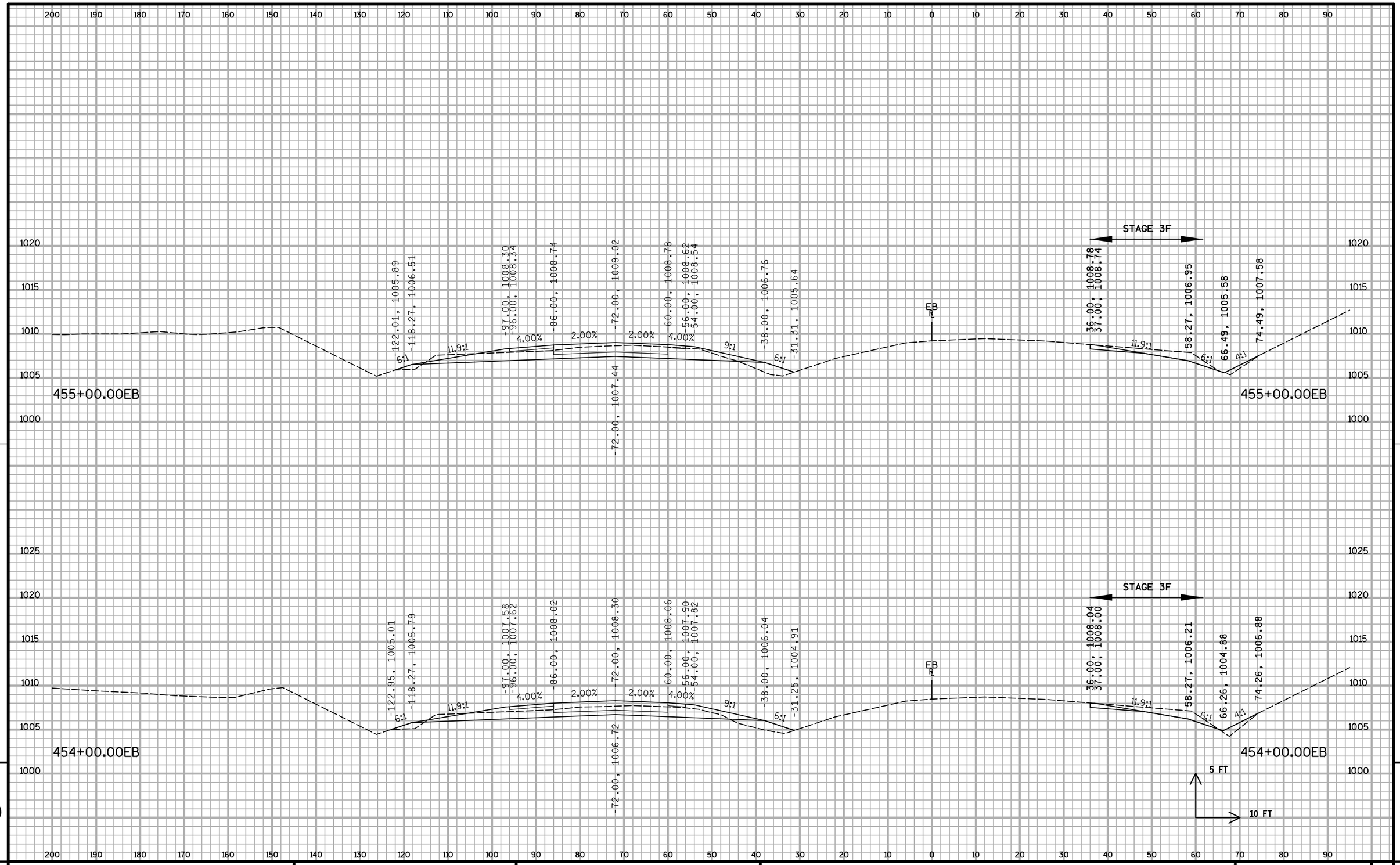


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

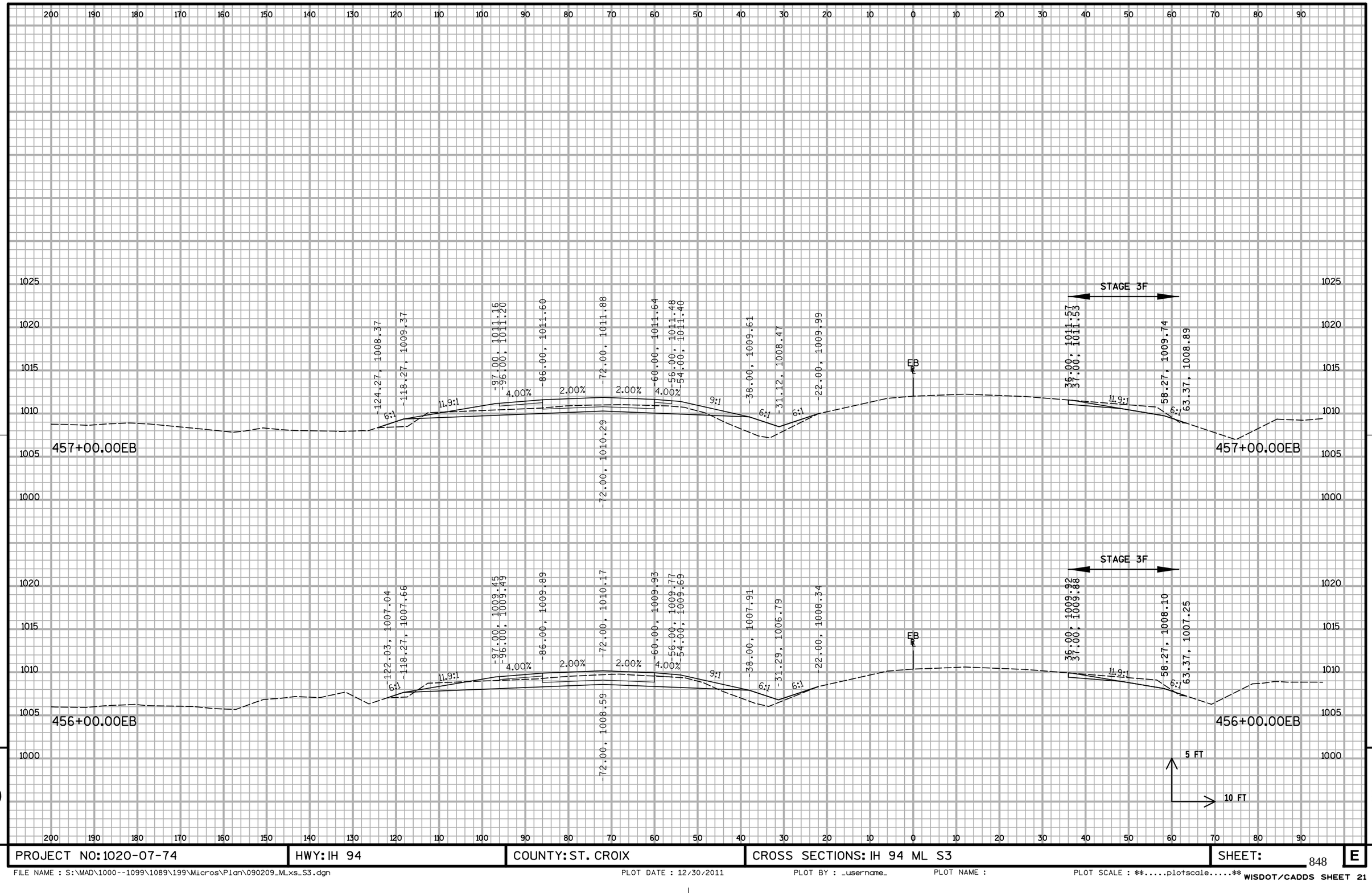


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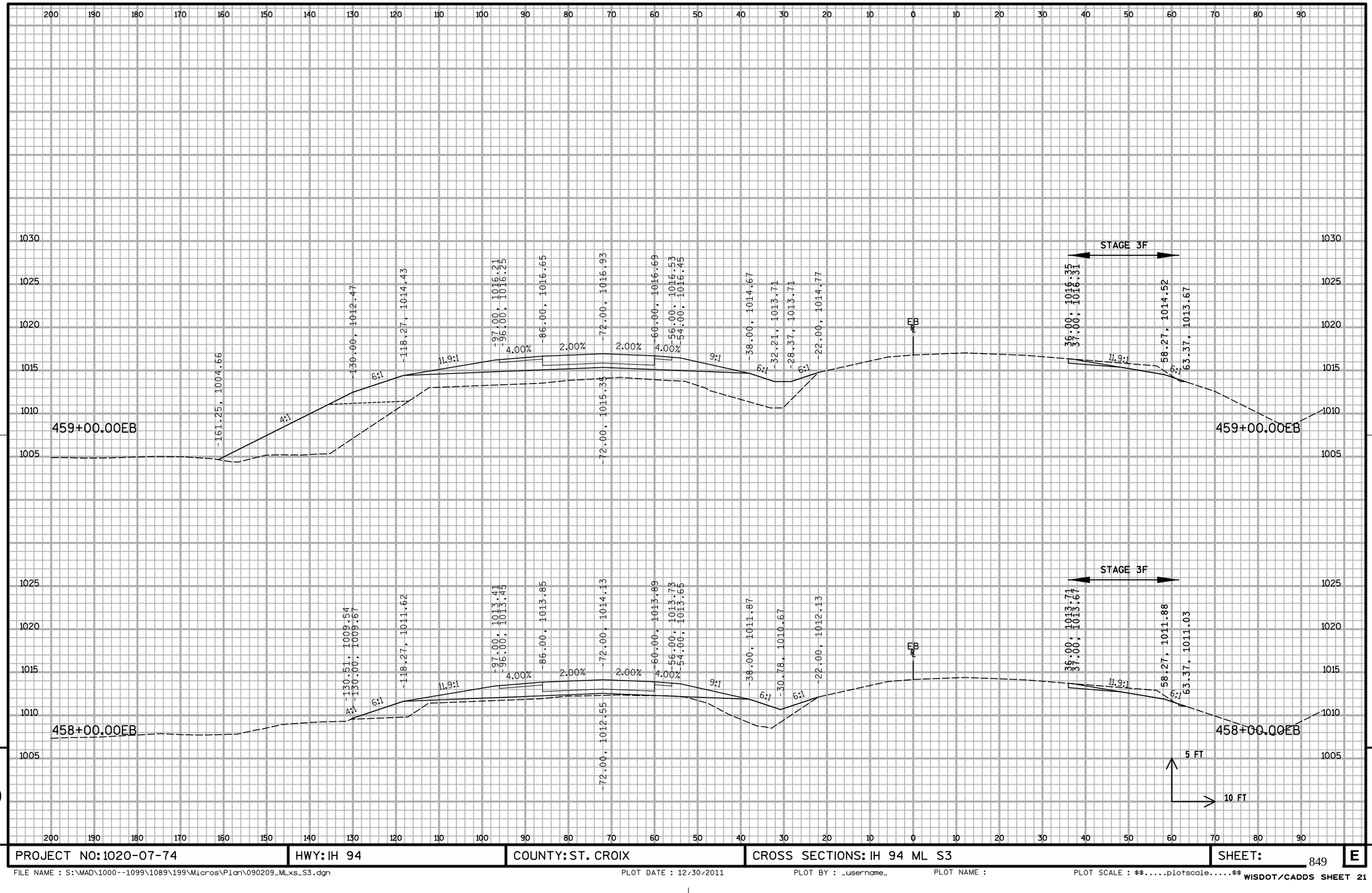
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



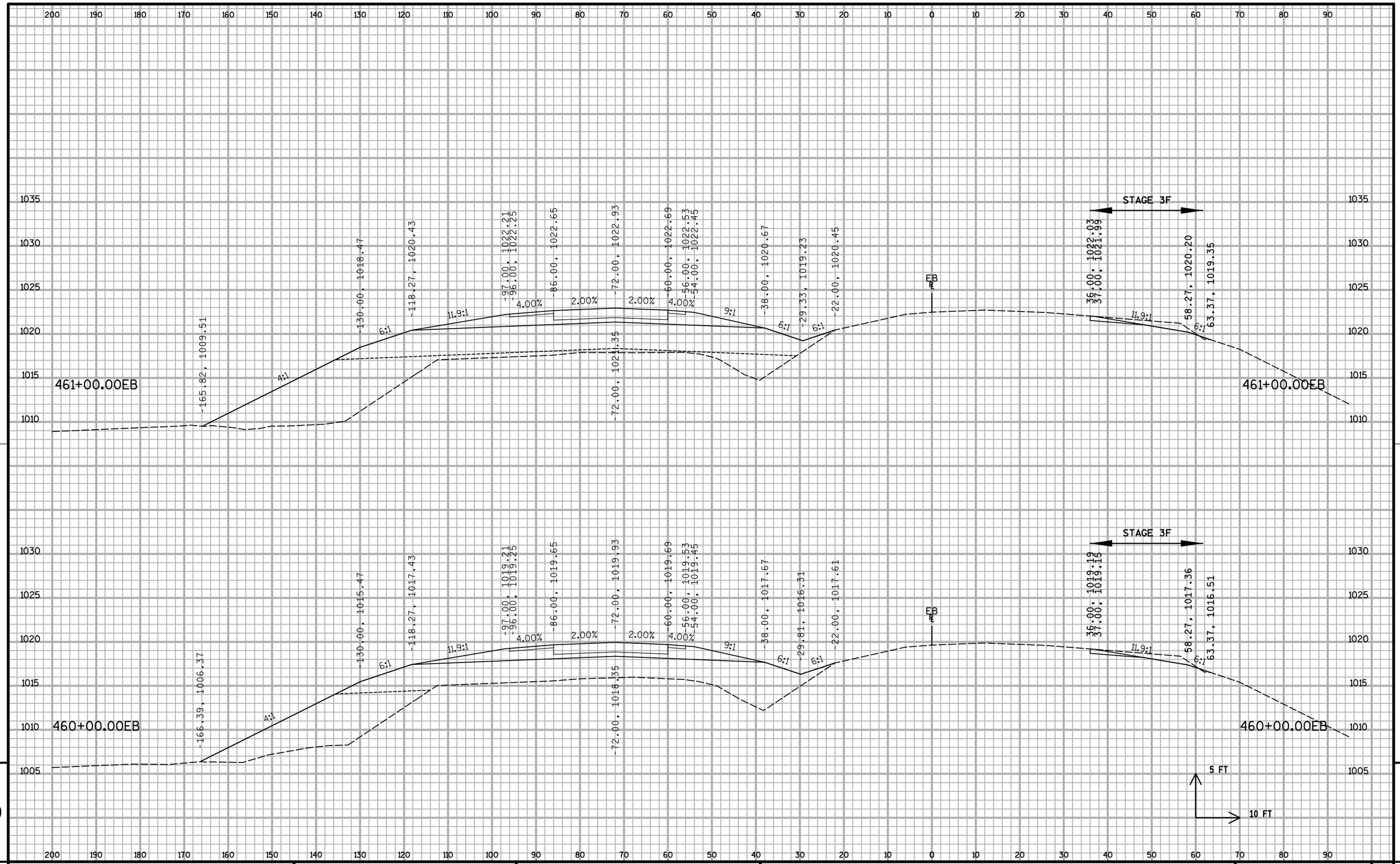
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET: 849	E

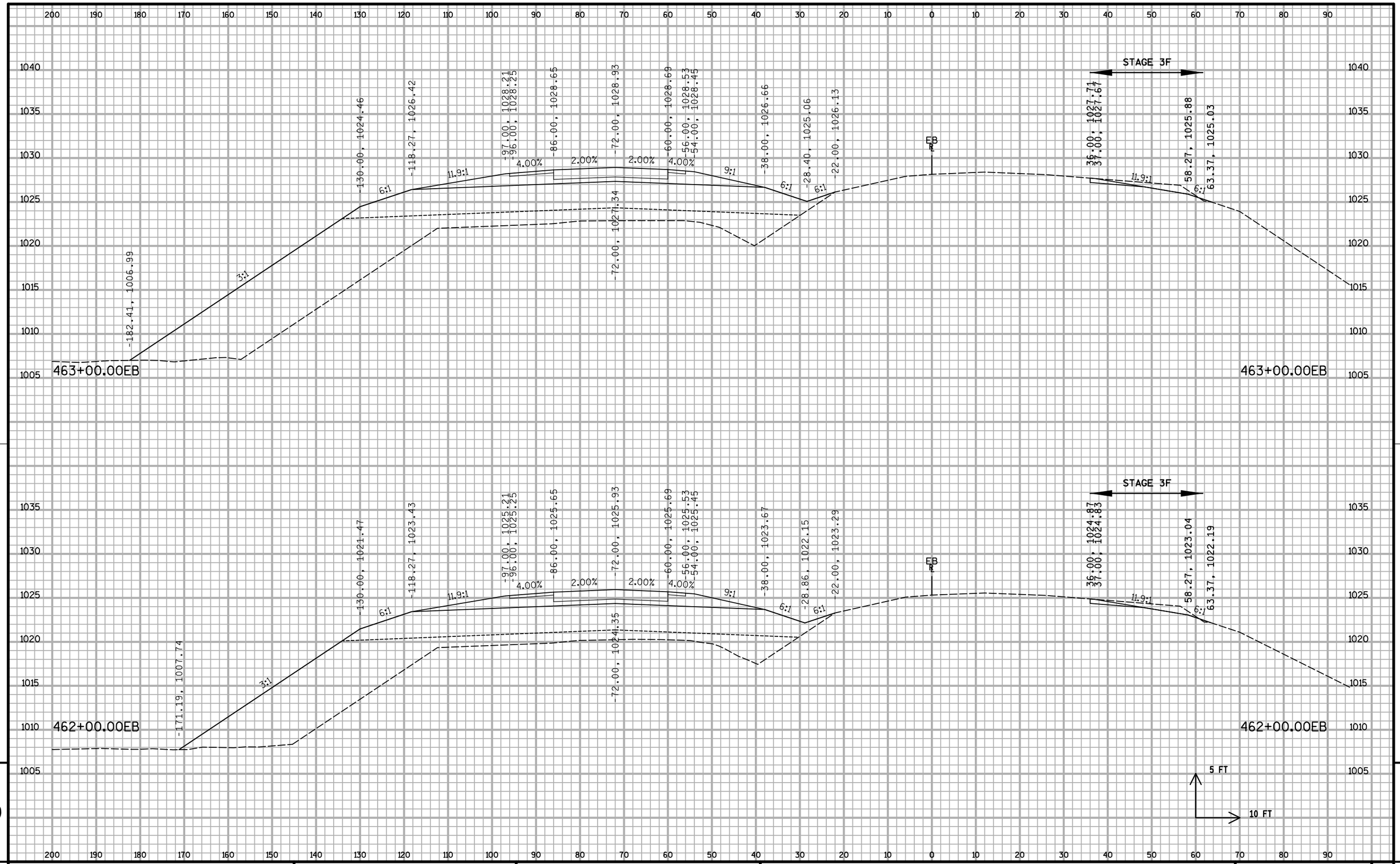
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WISDOT/CADDS SHEET 21



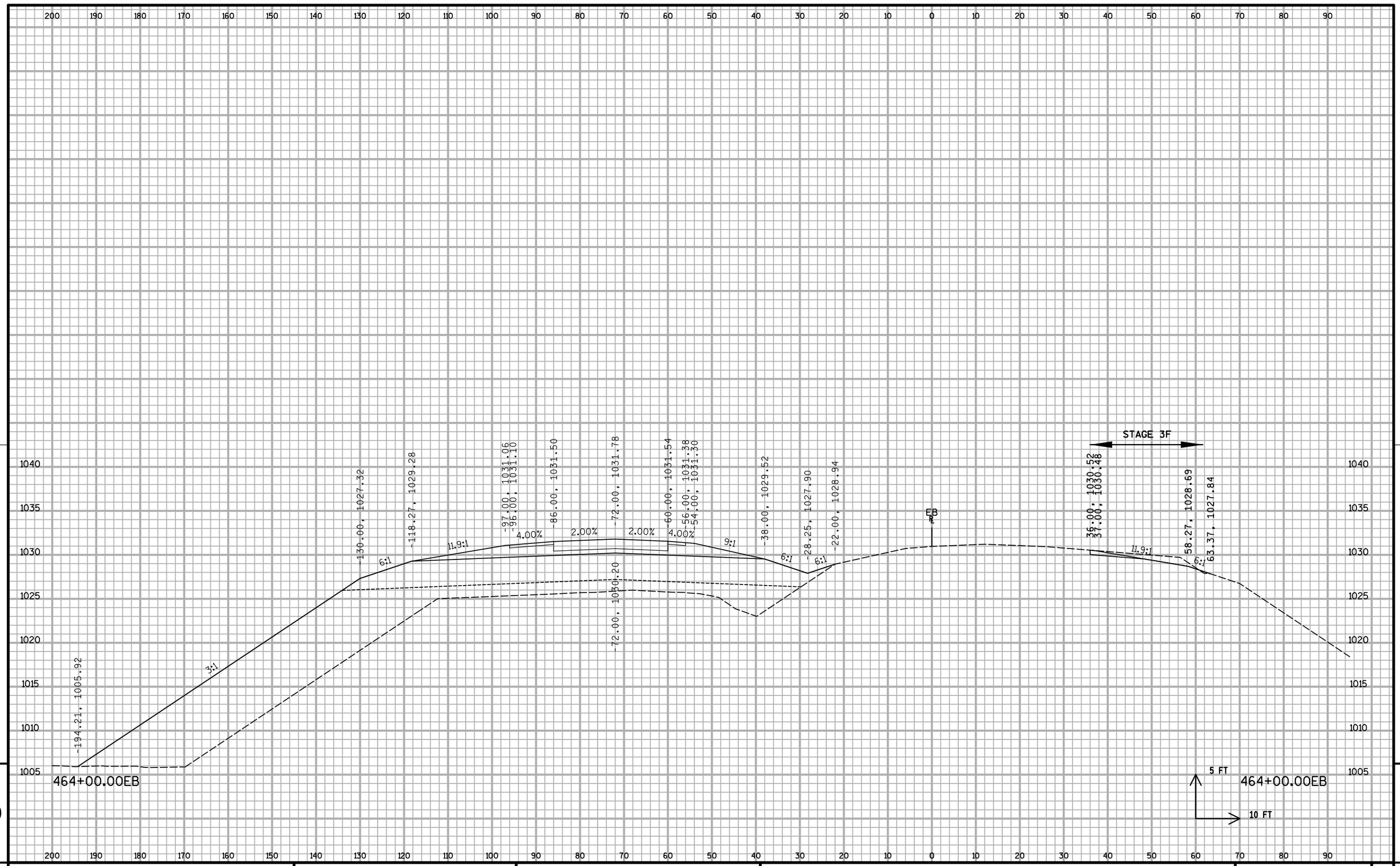
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET: 850 E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET: 851 E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

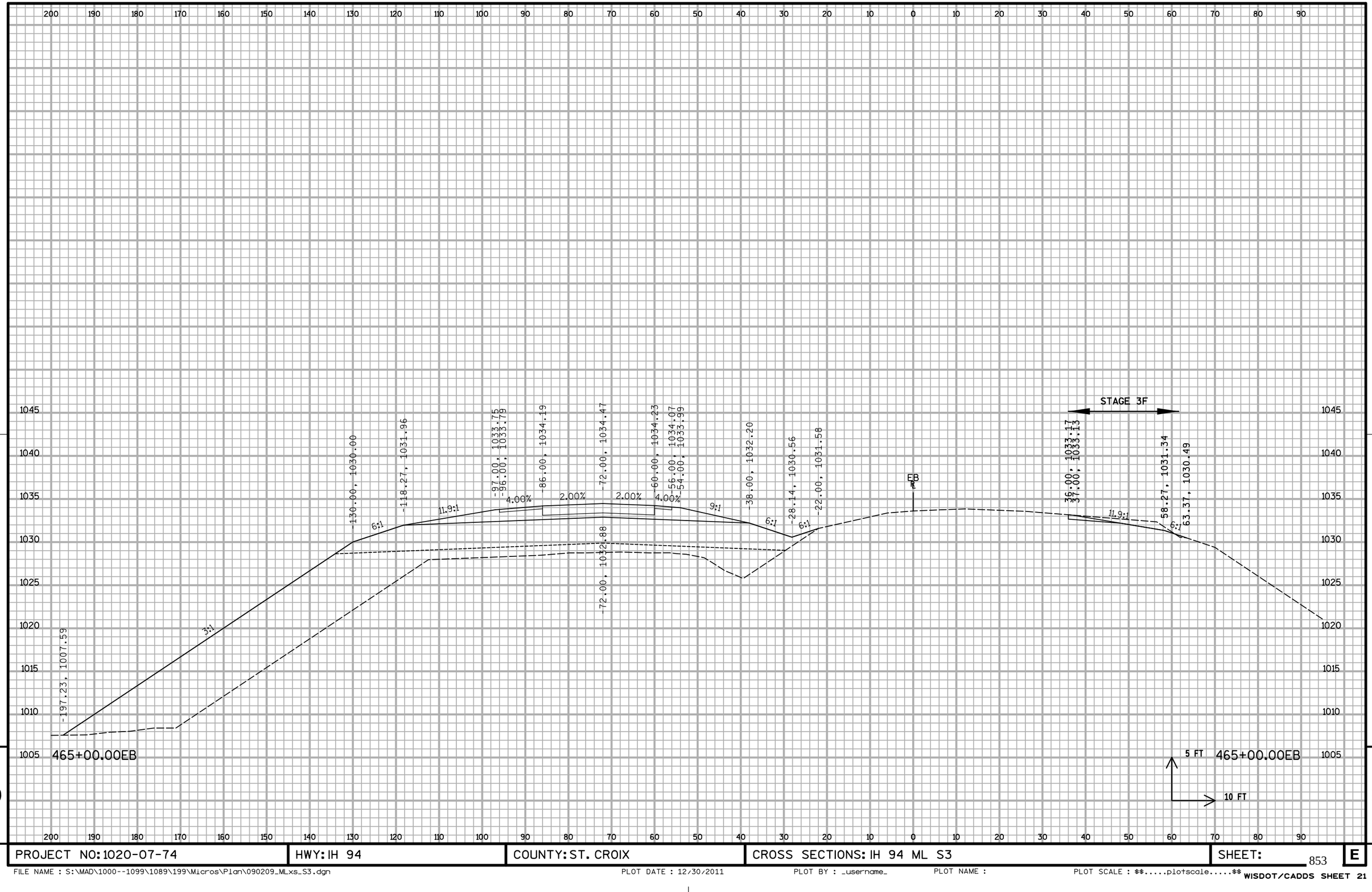


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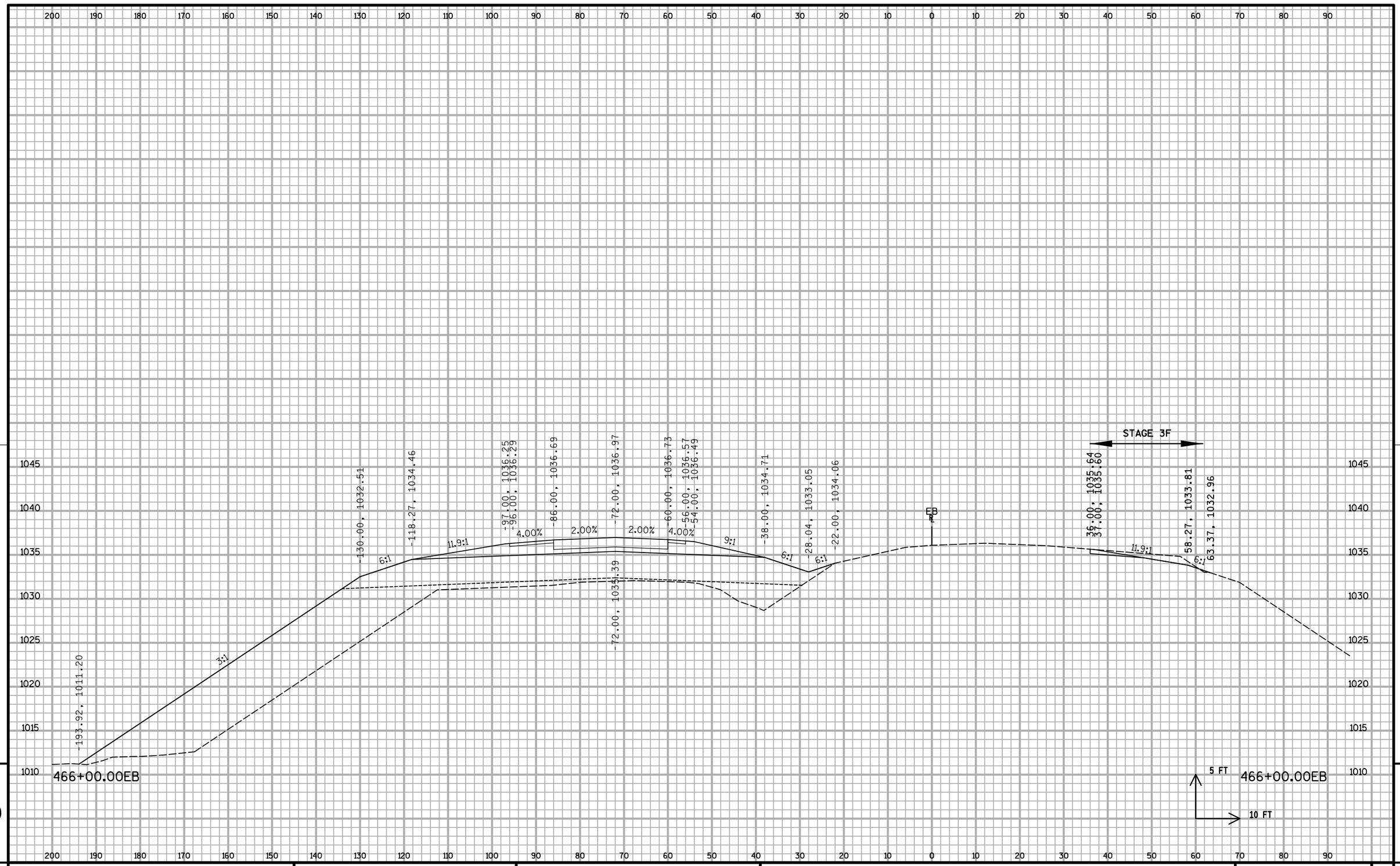
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET: 853	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



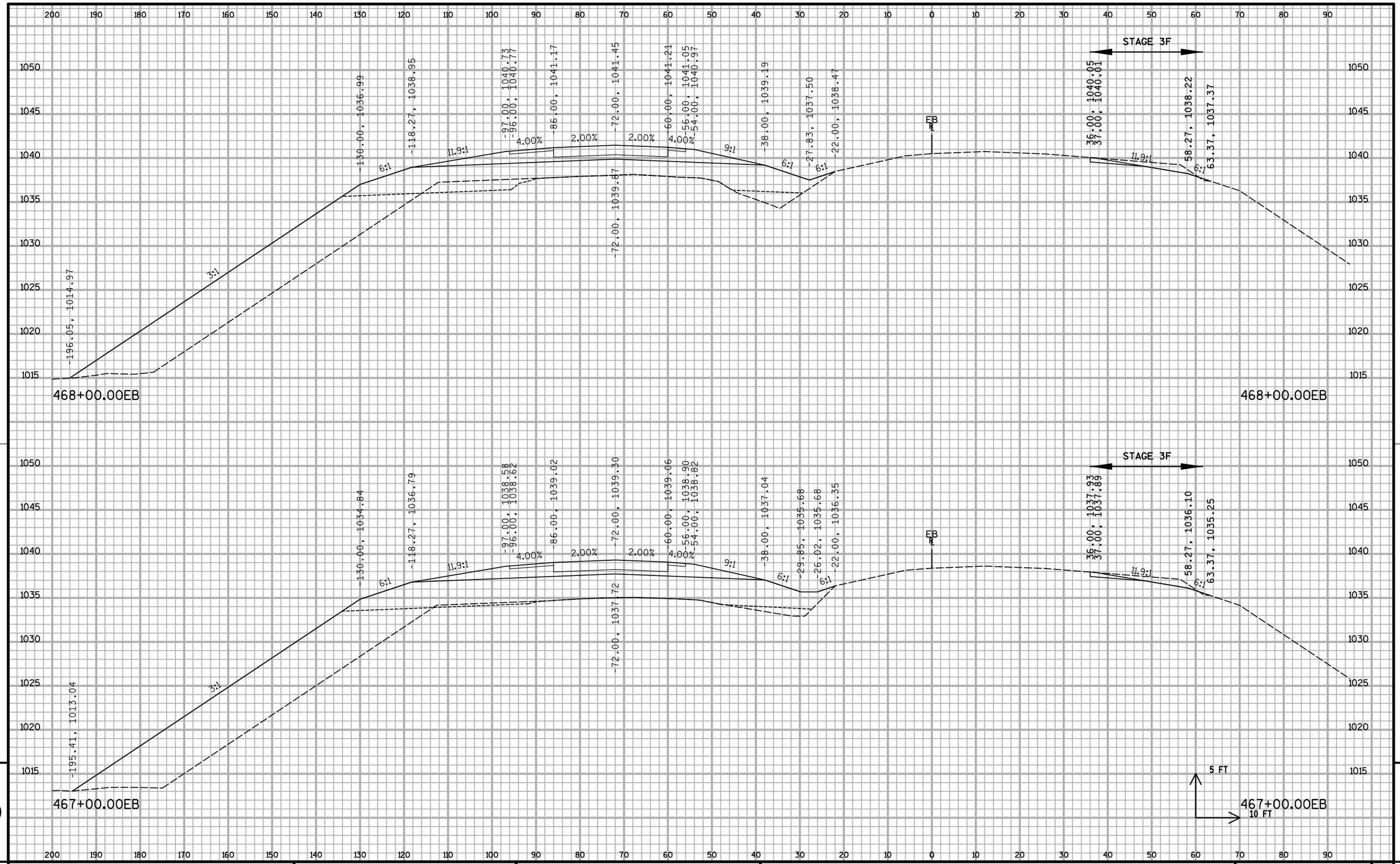
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET: 854	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

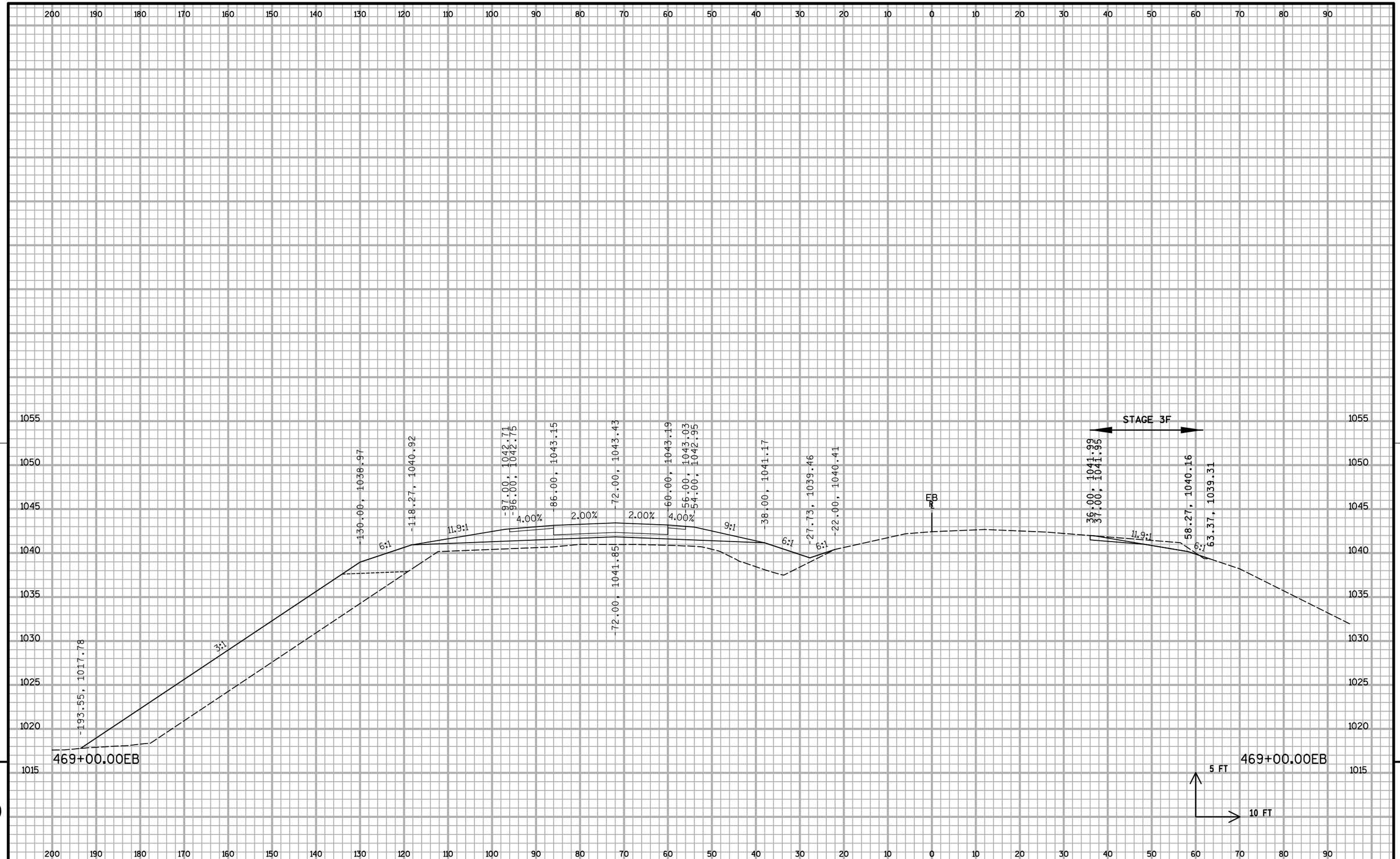


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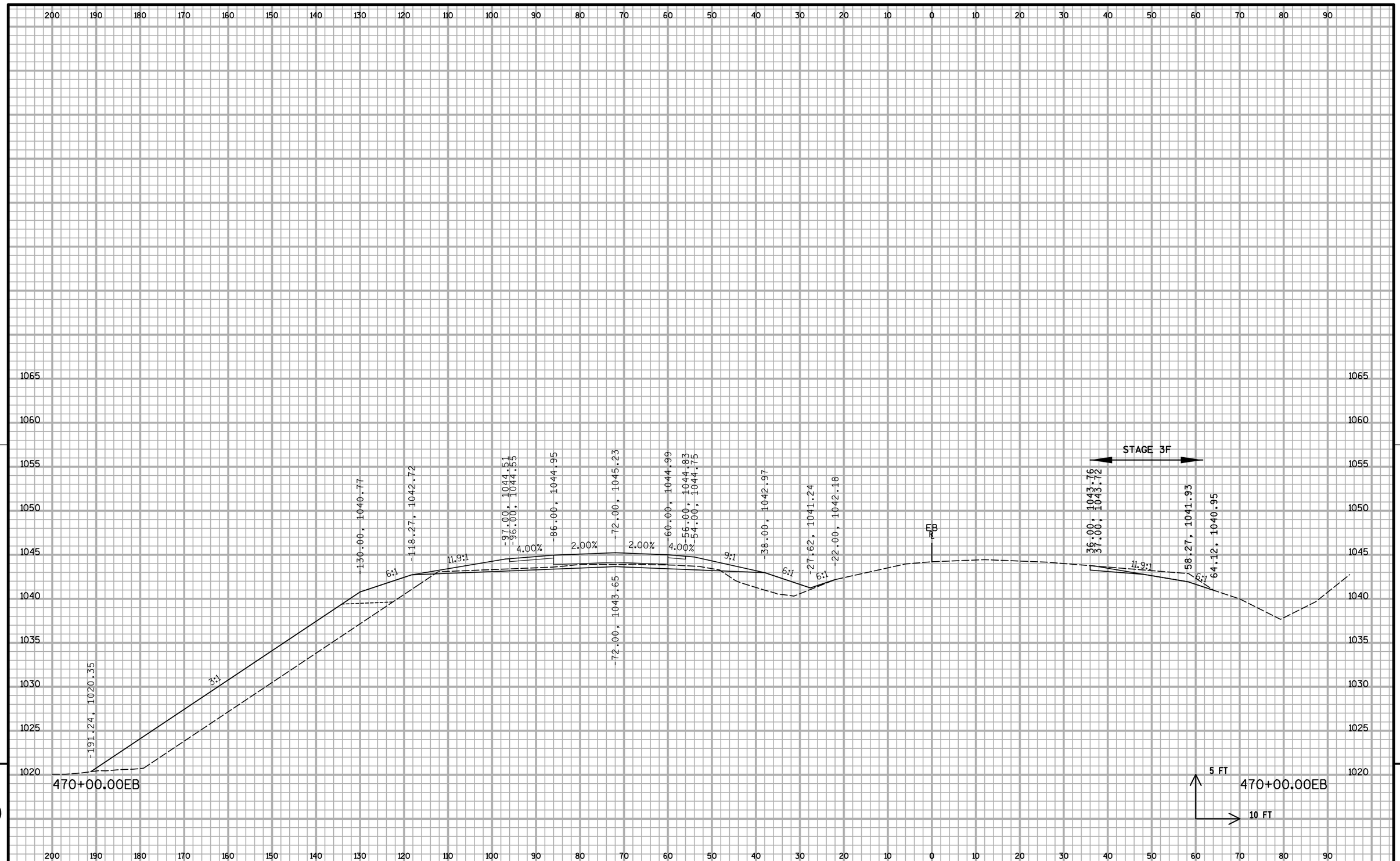
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

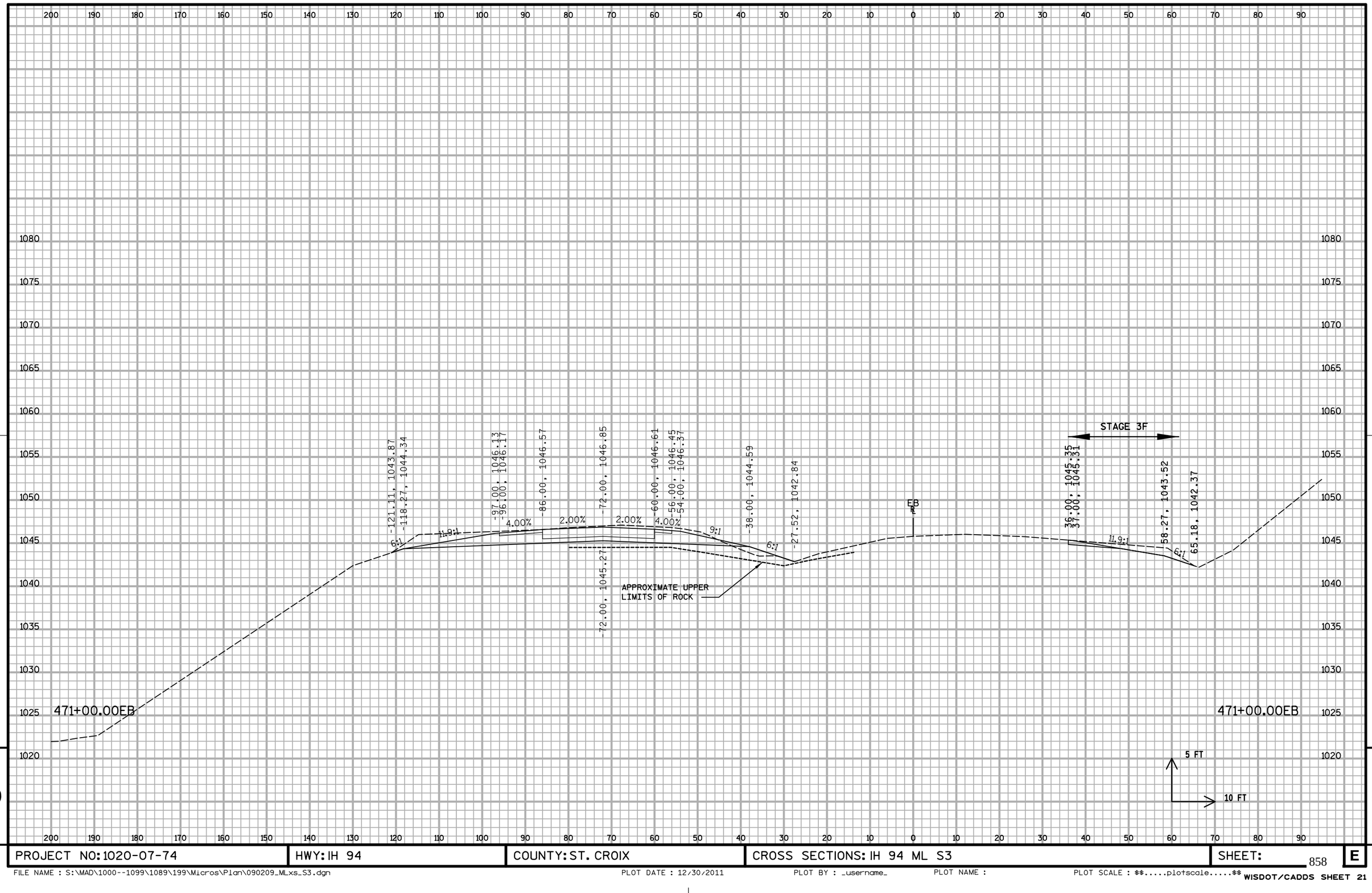


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

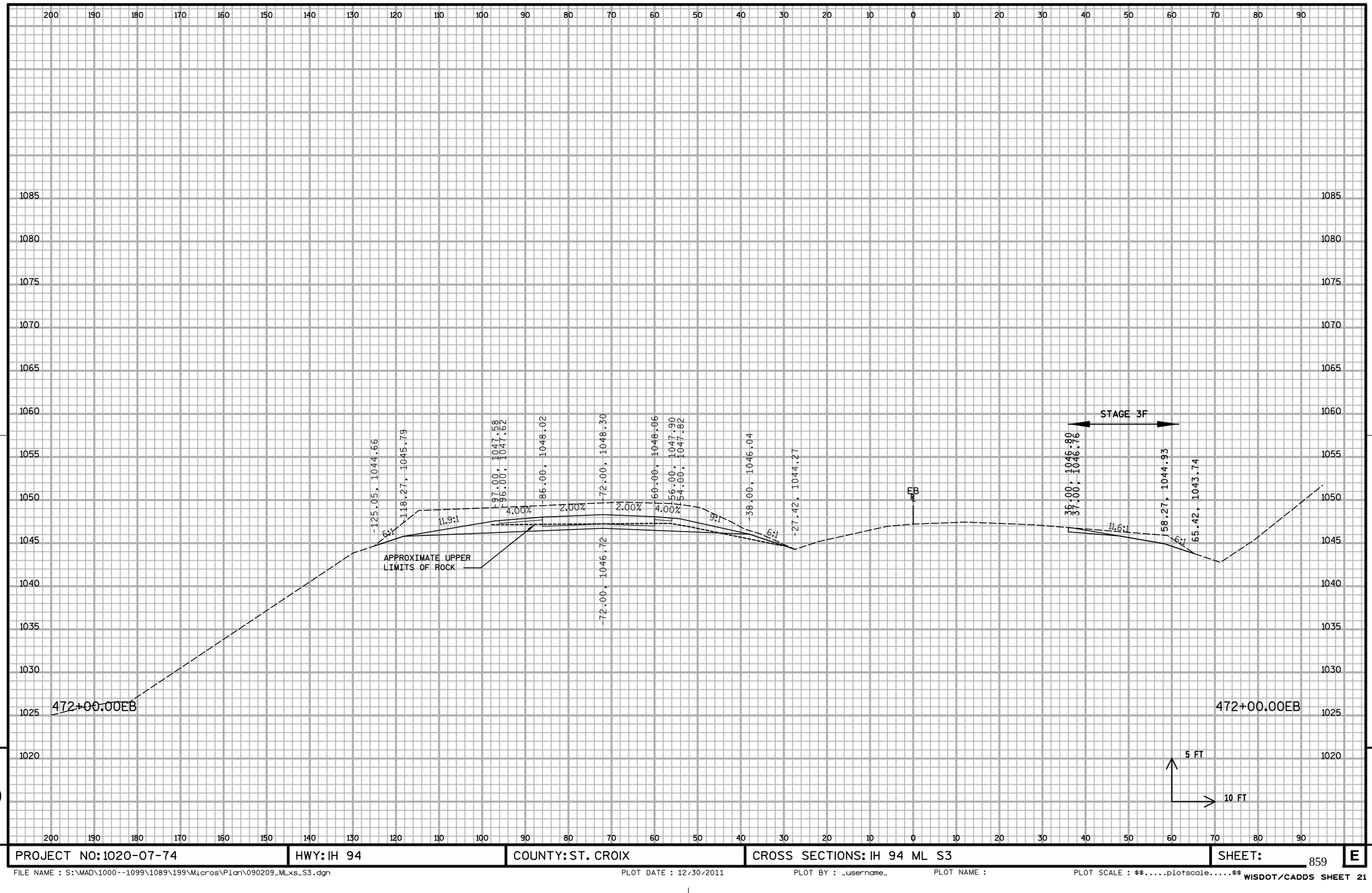


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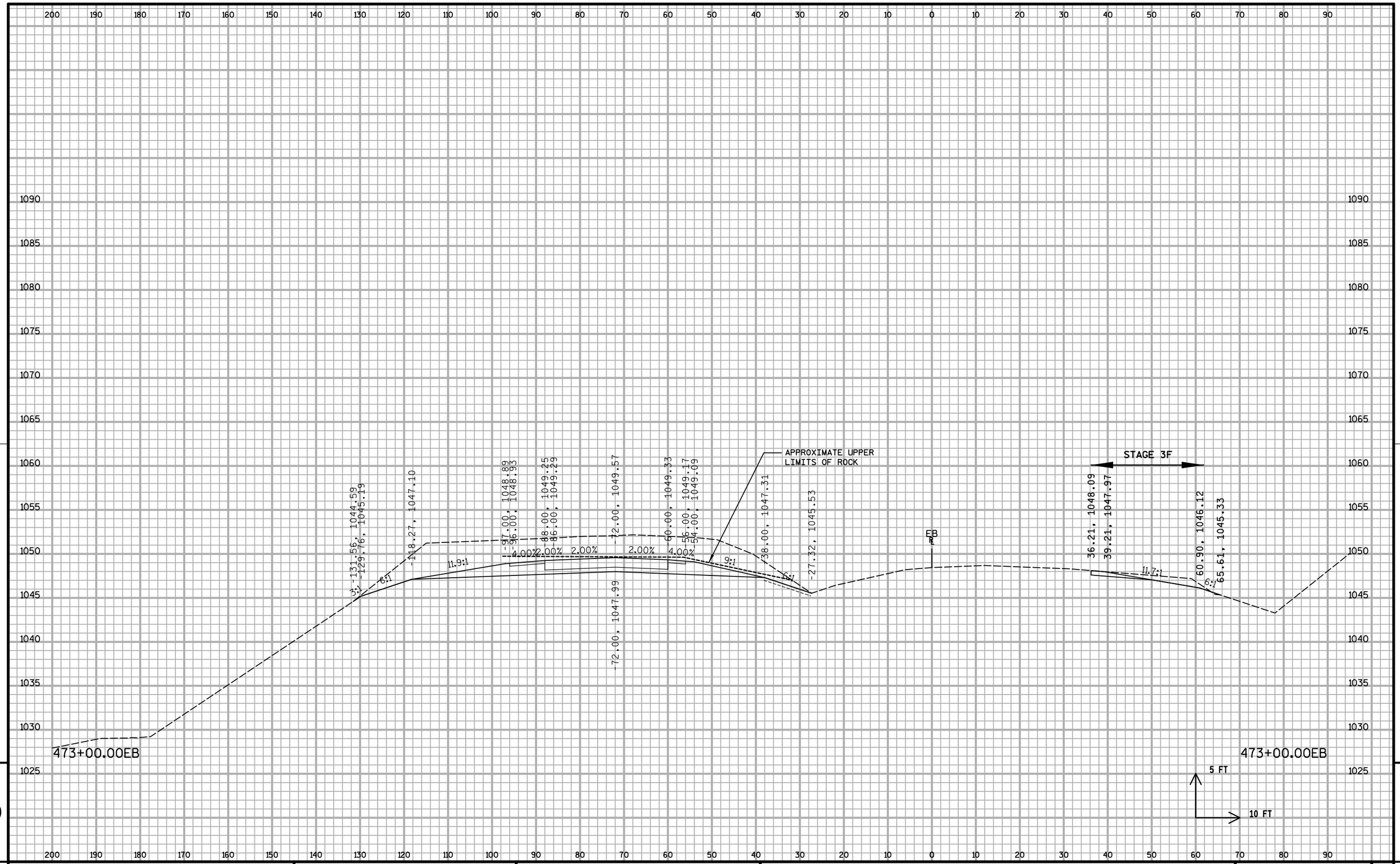
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



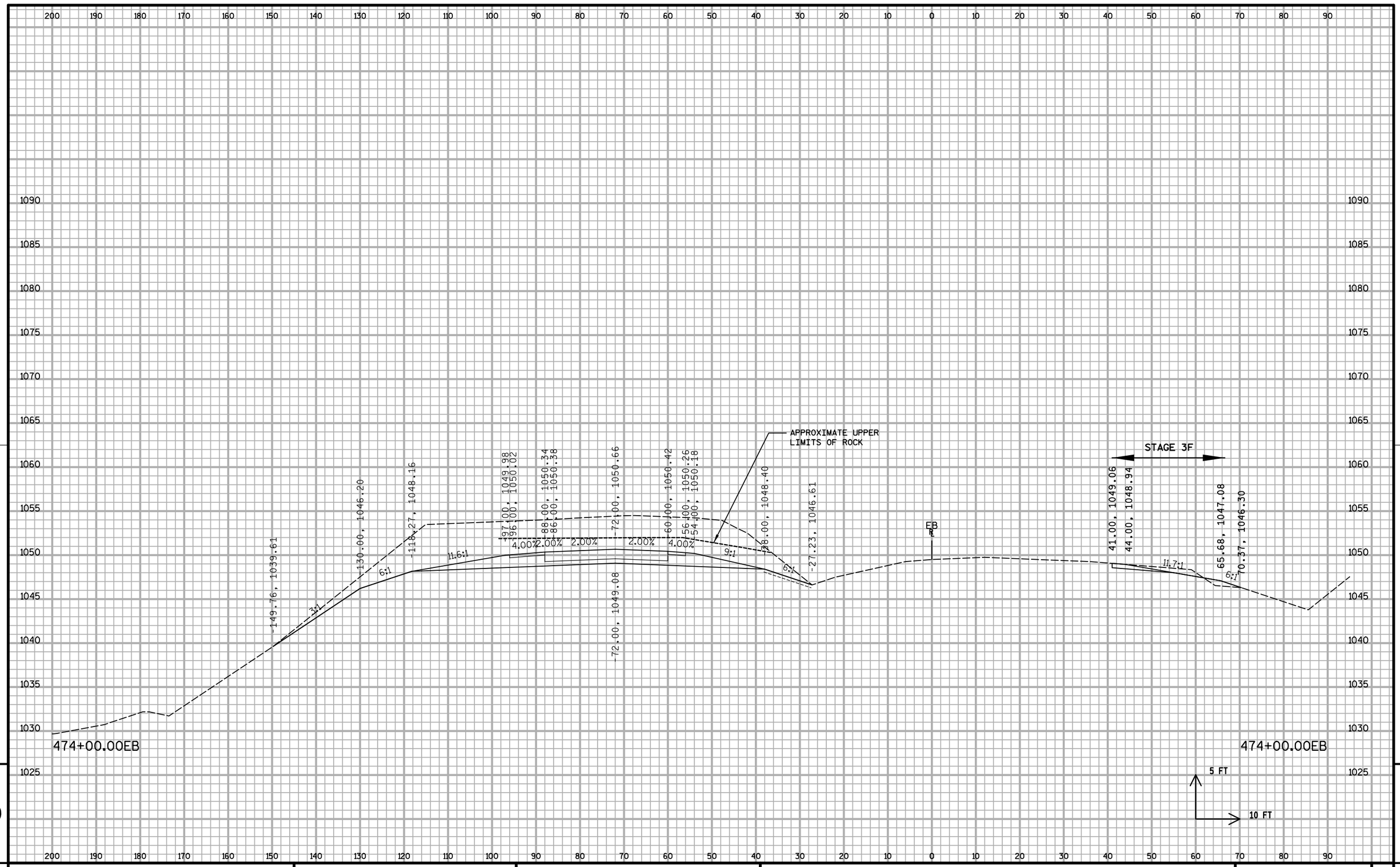
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

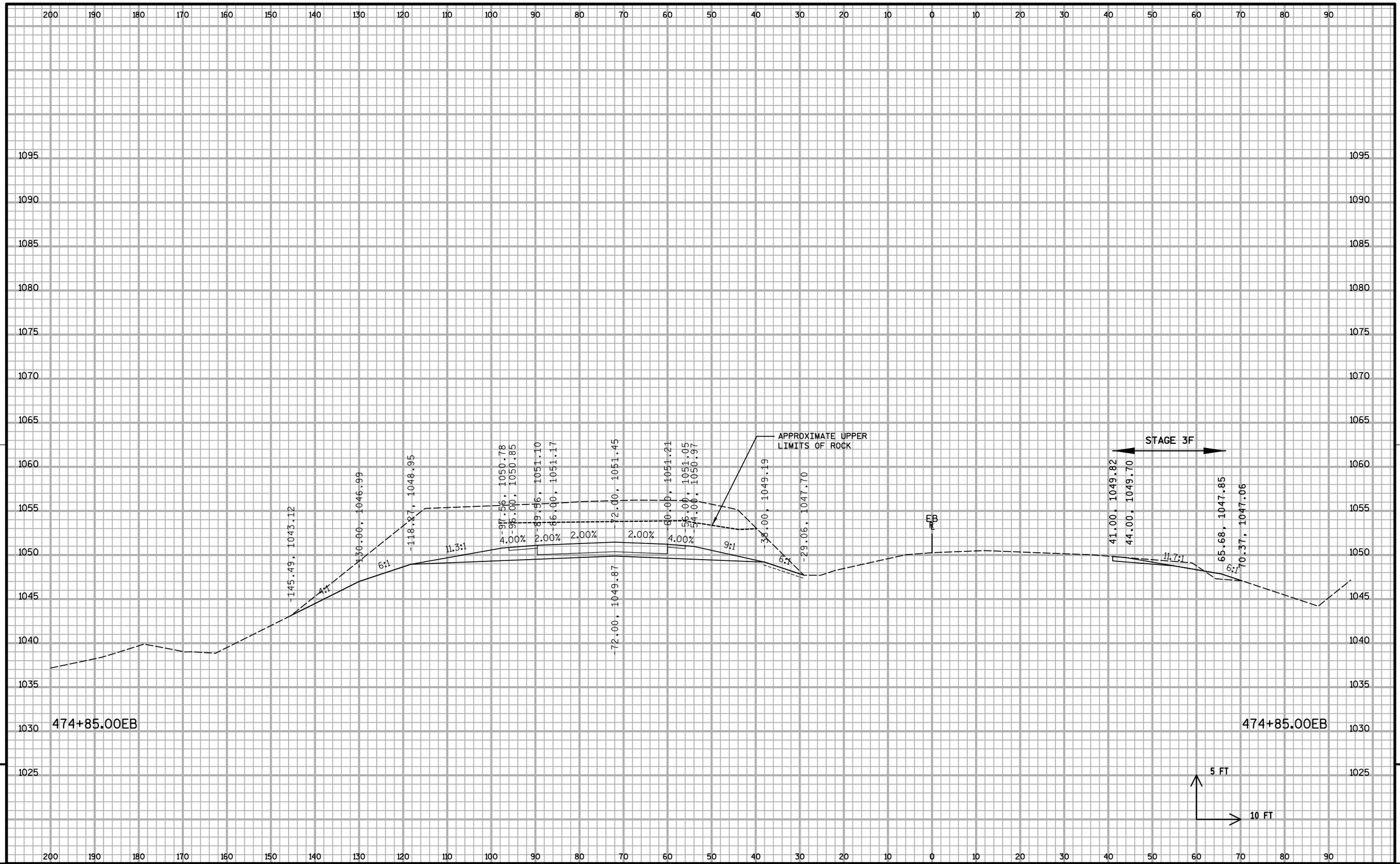


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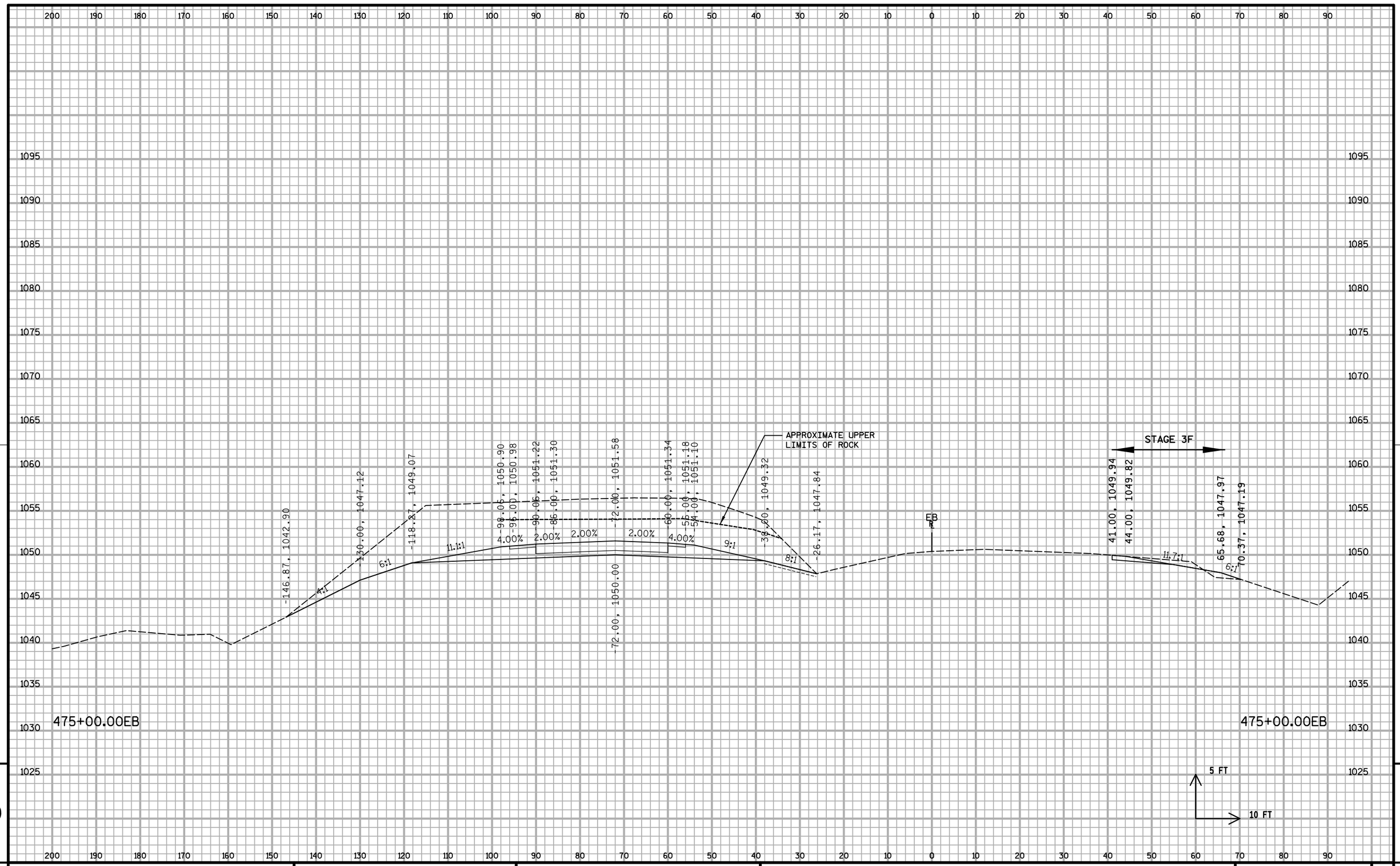
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



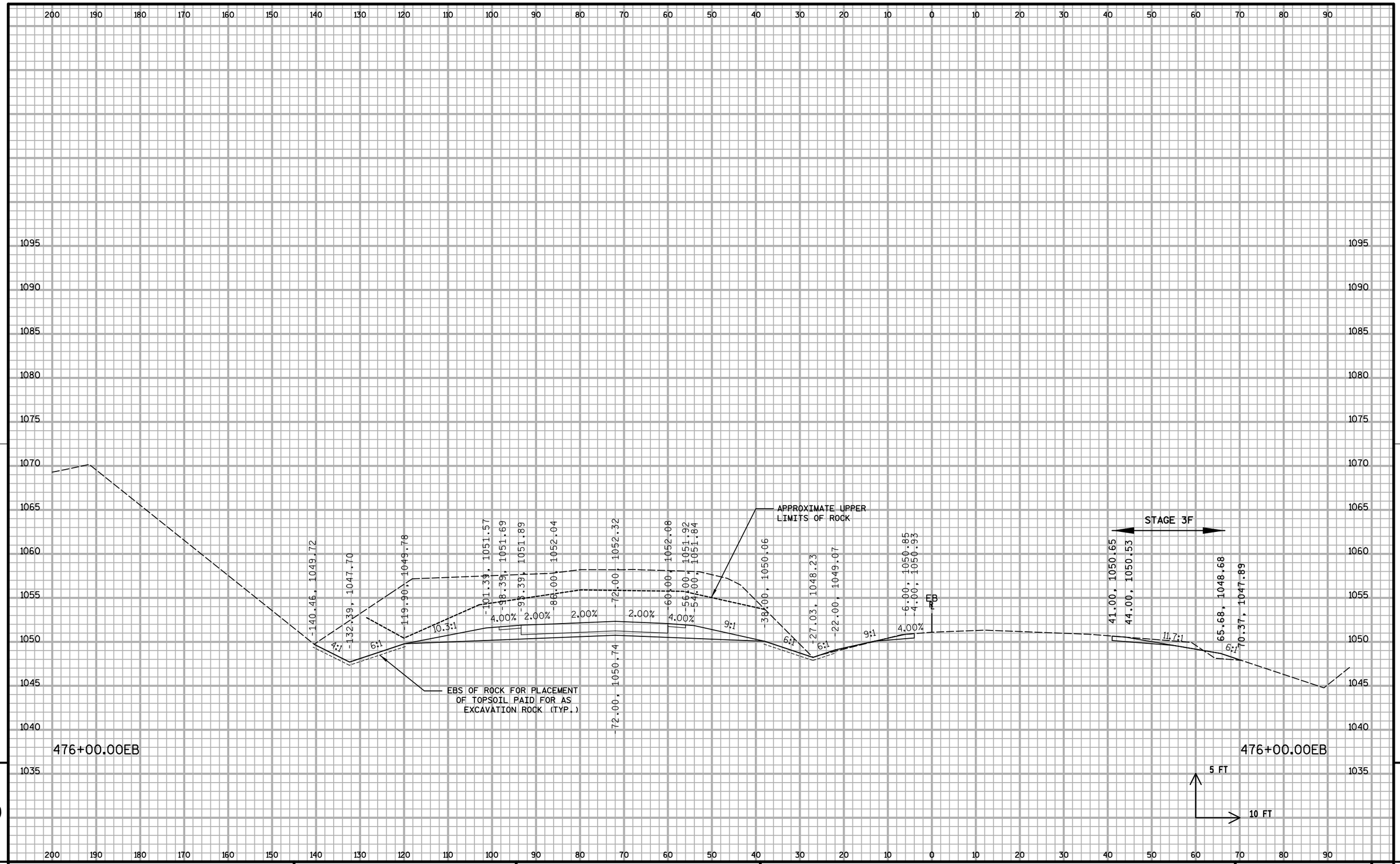
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



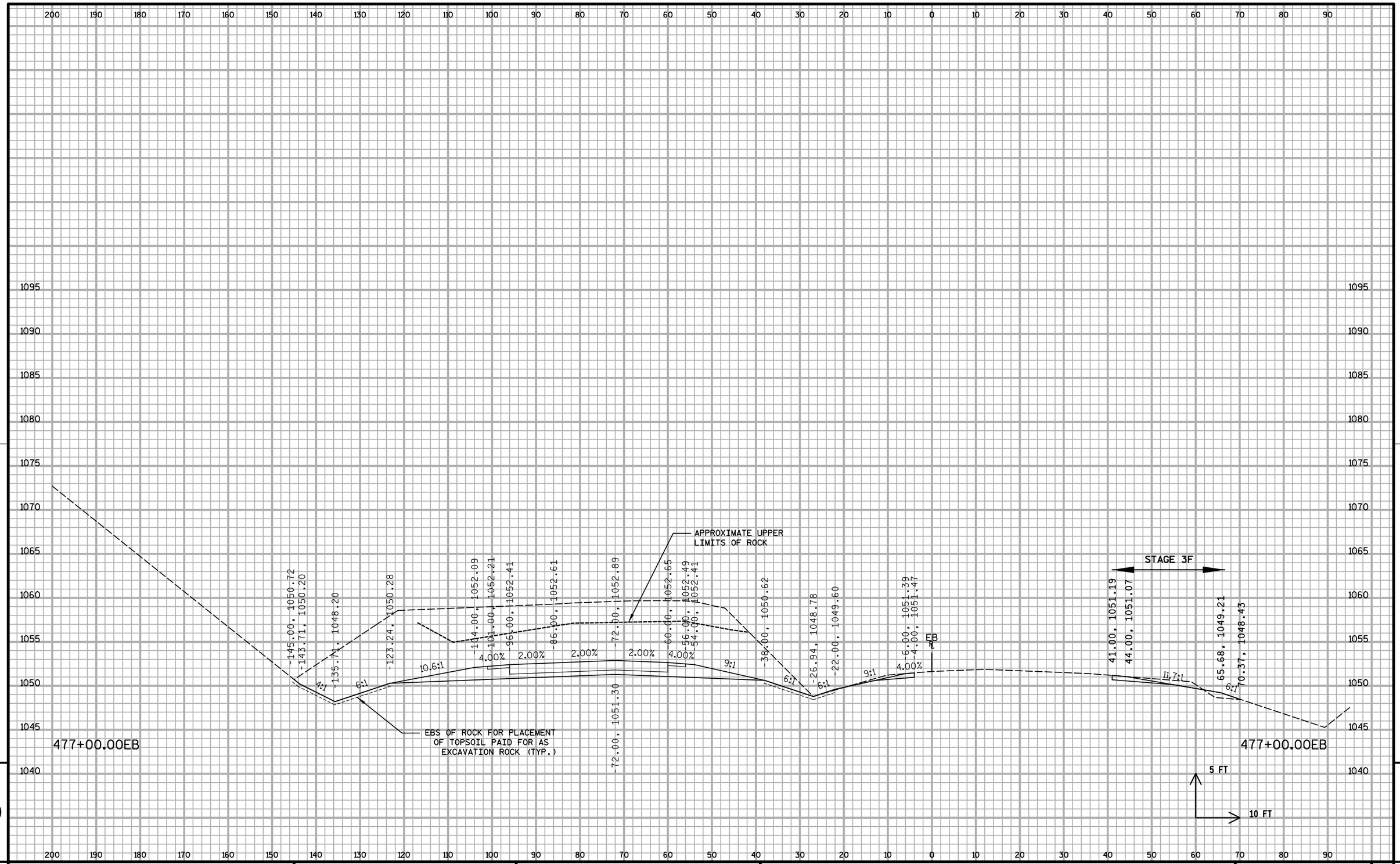
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET: 864	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

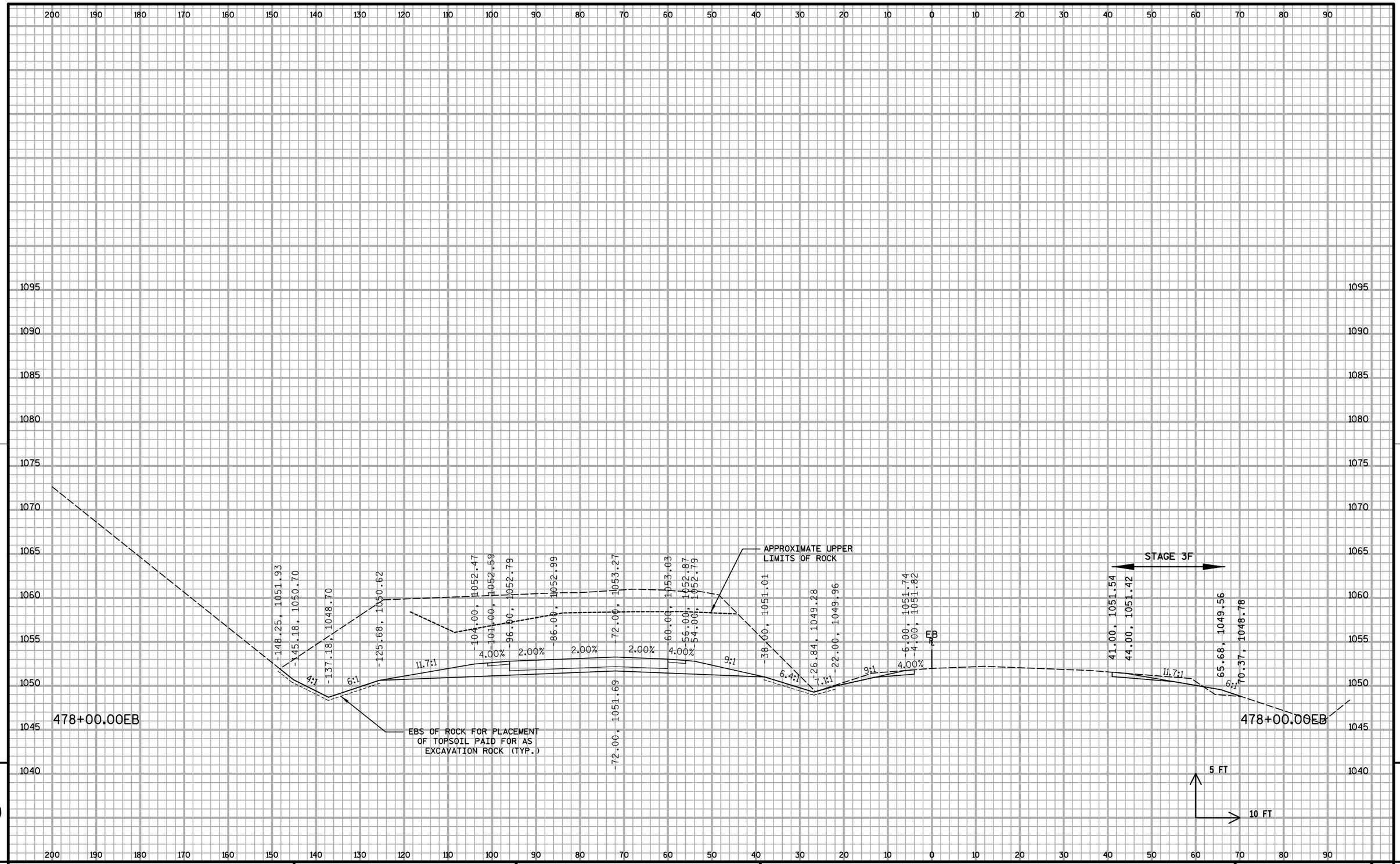


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

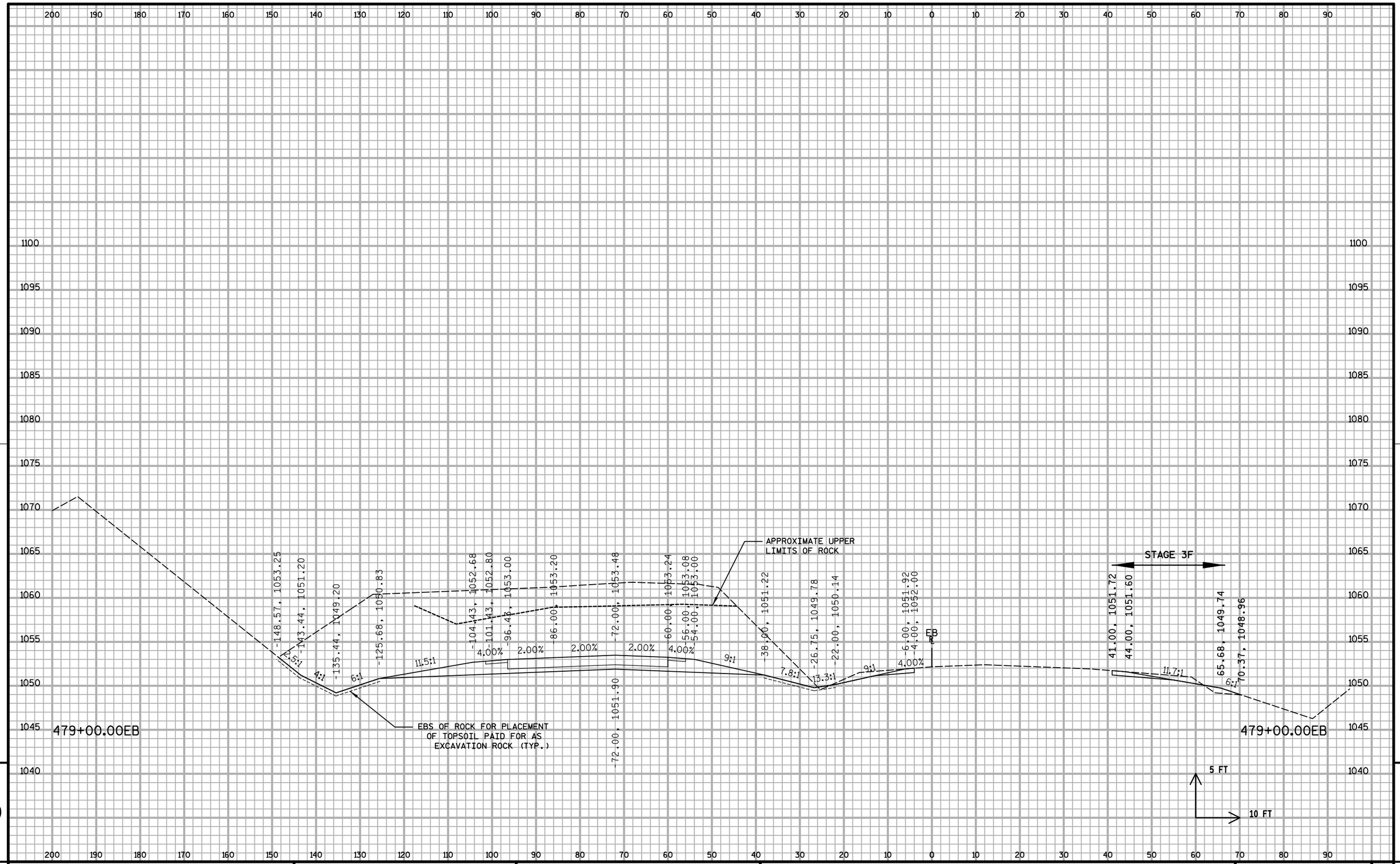


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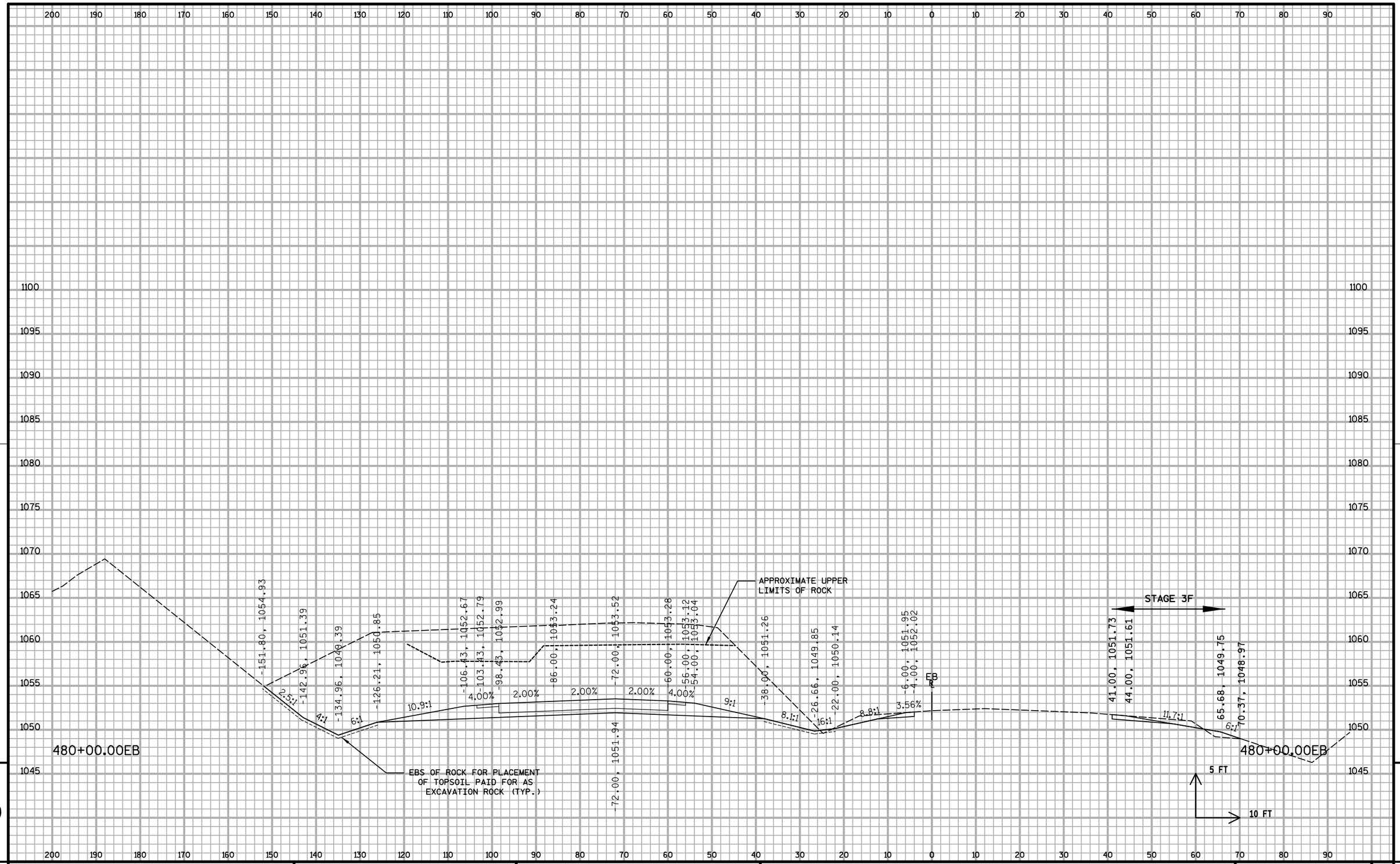
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



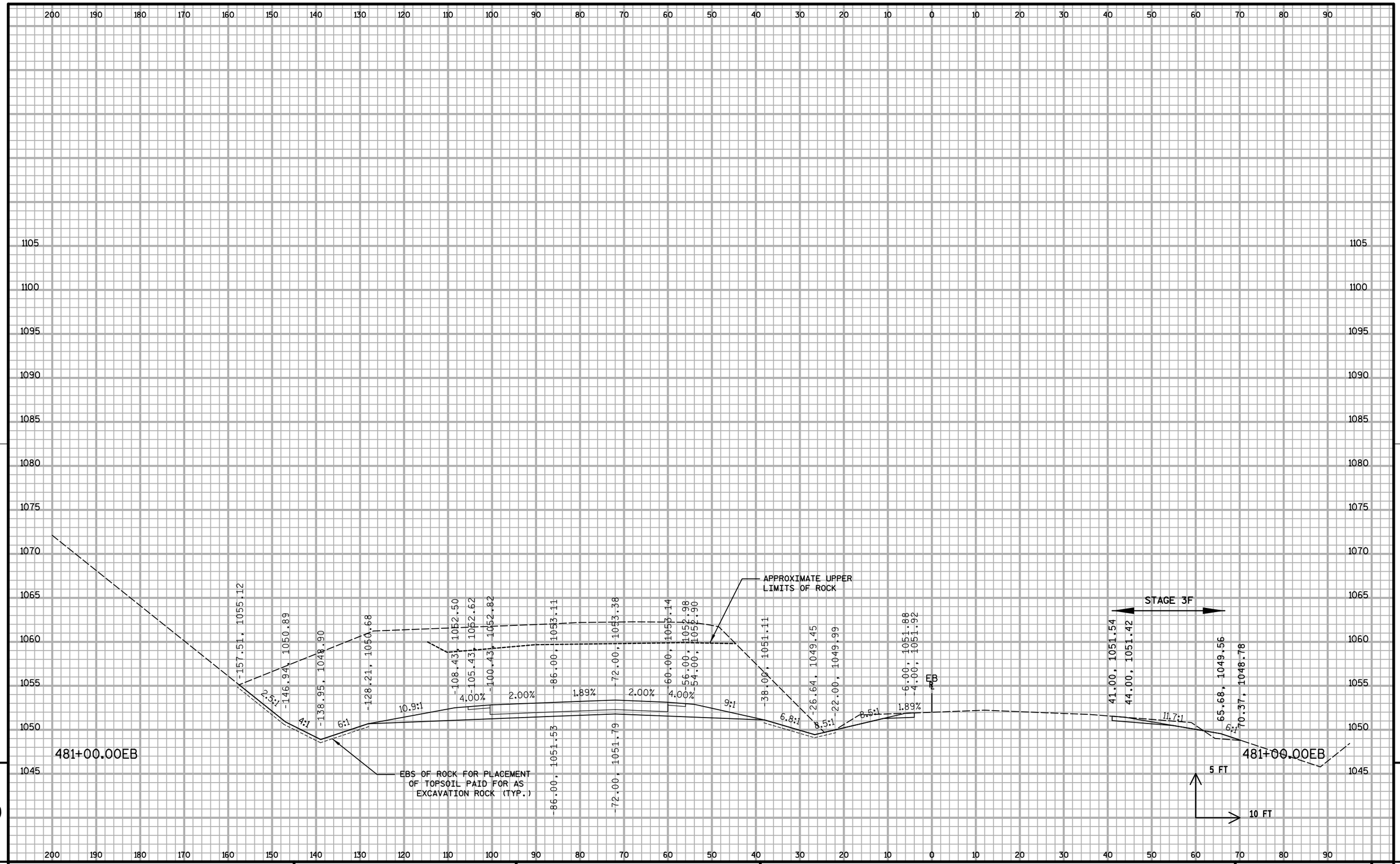
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



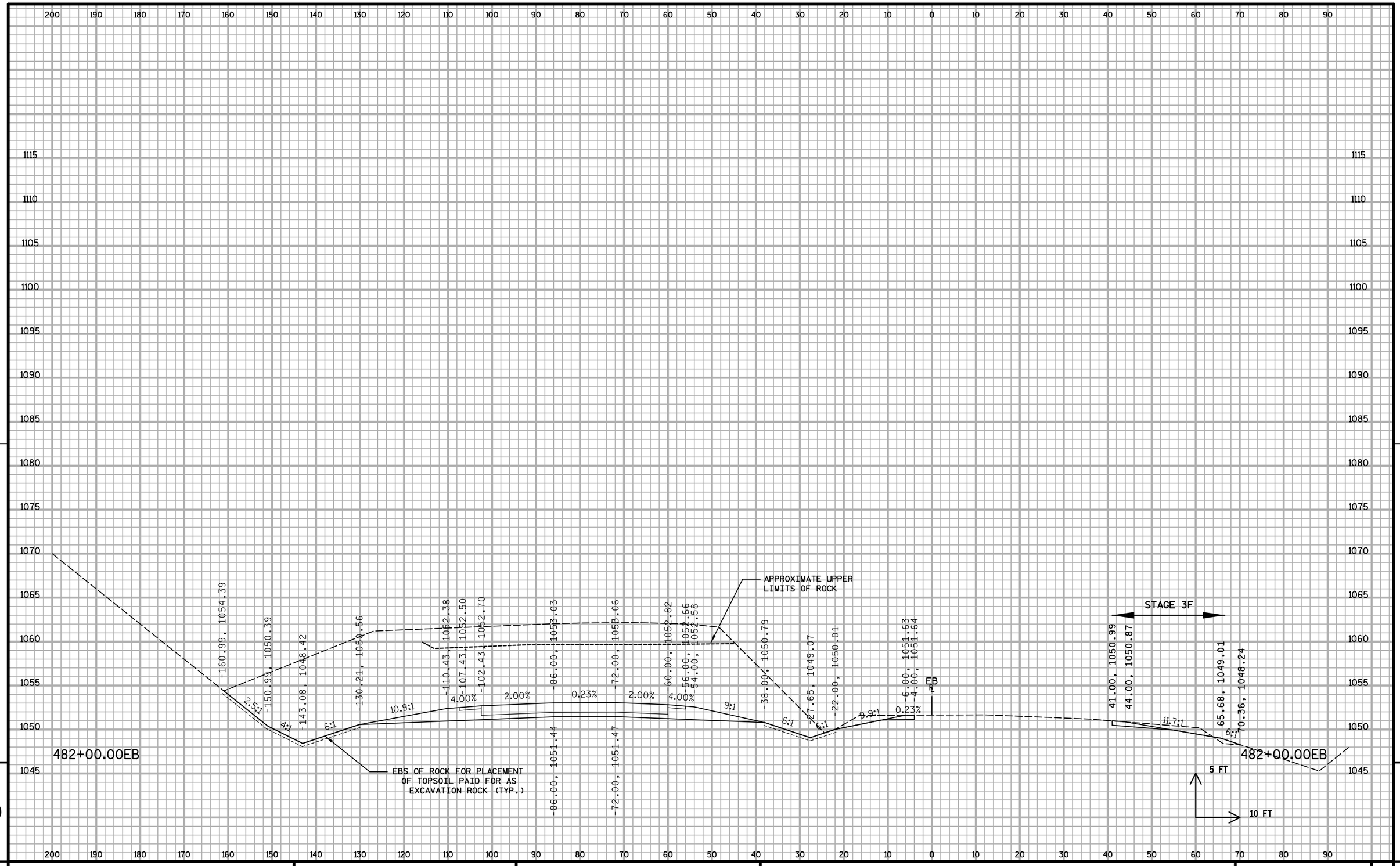
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



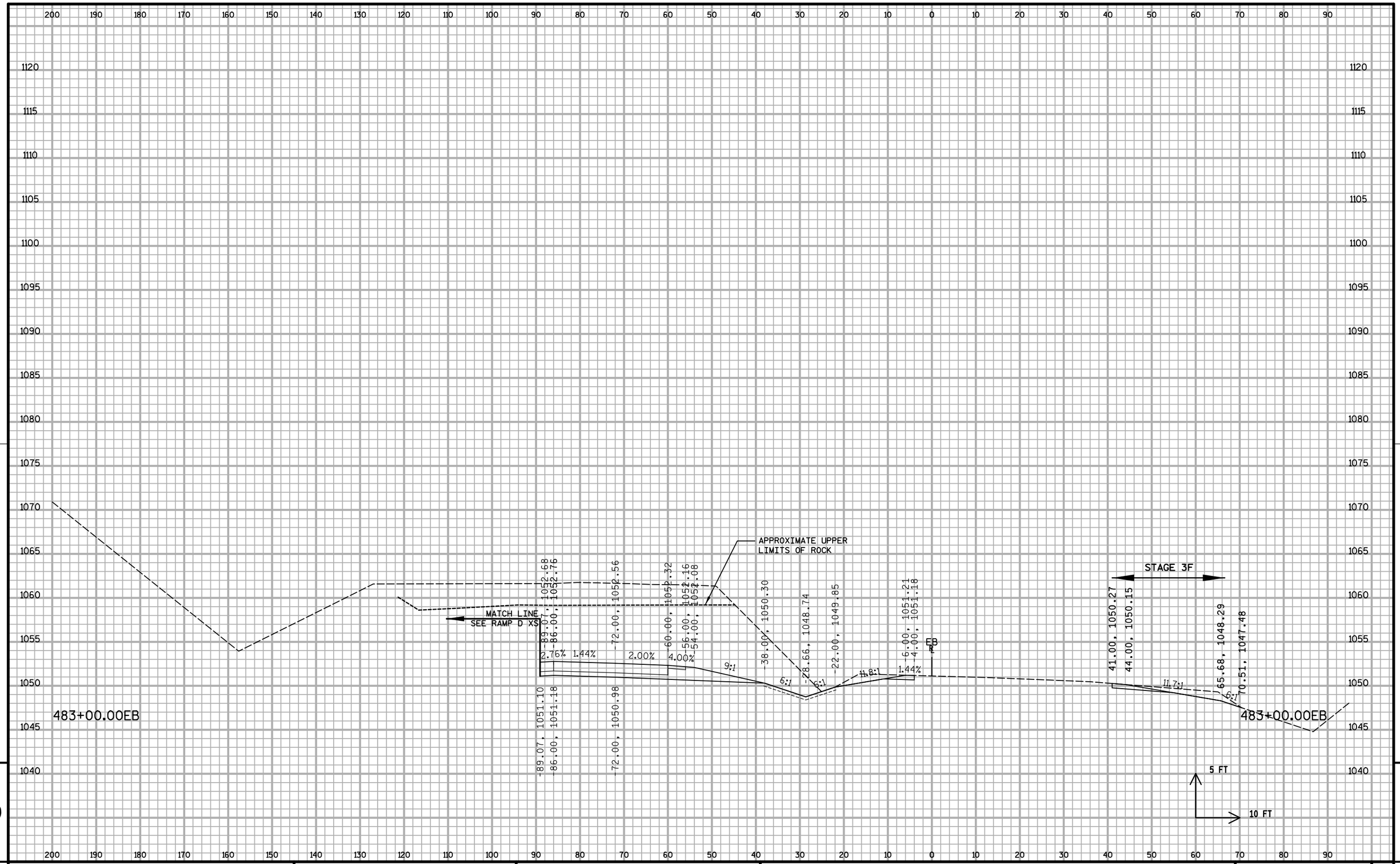
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



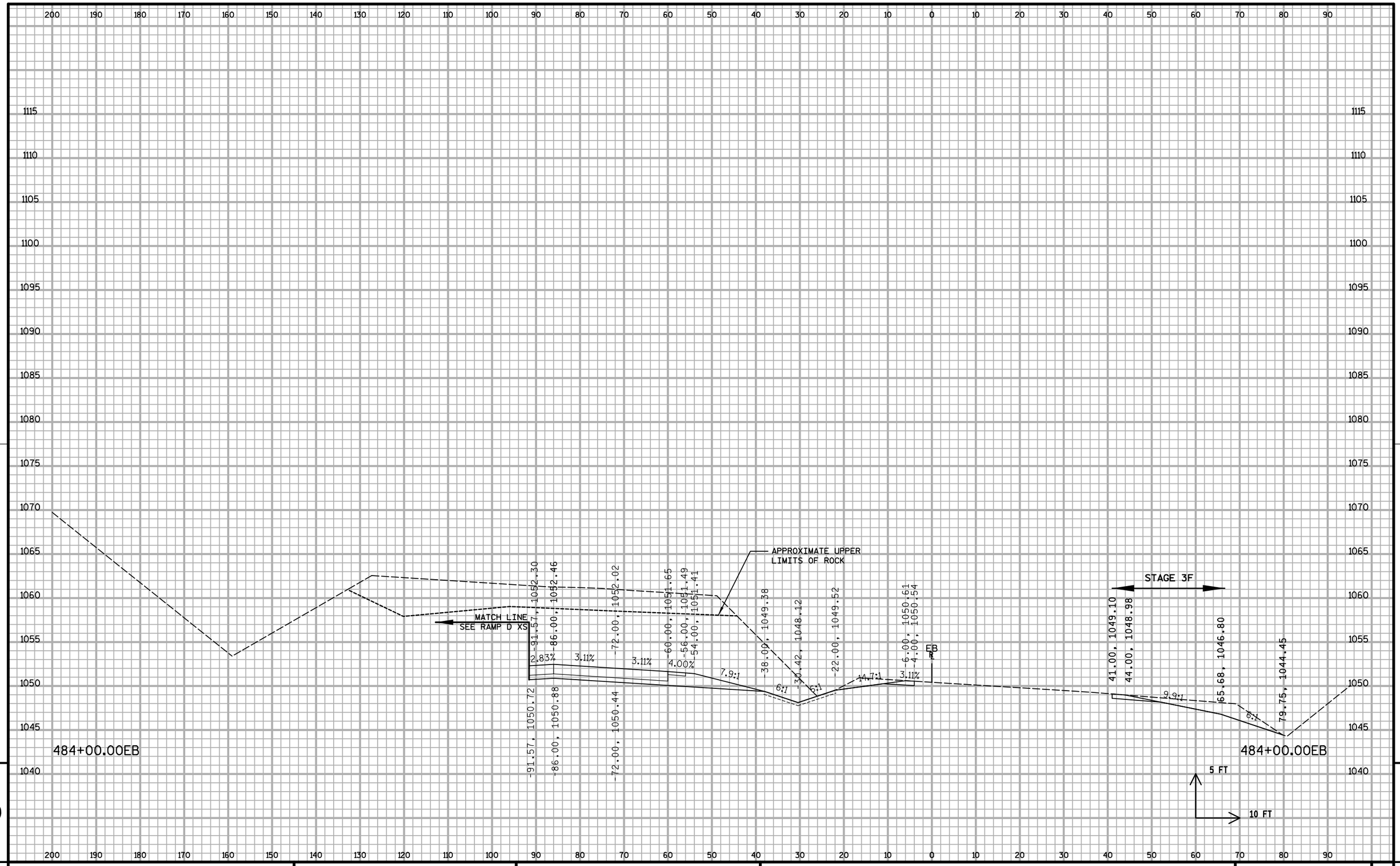
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



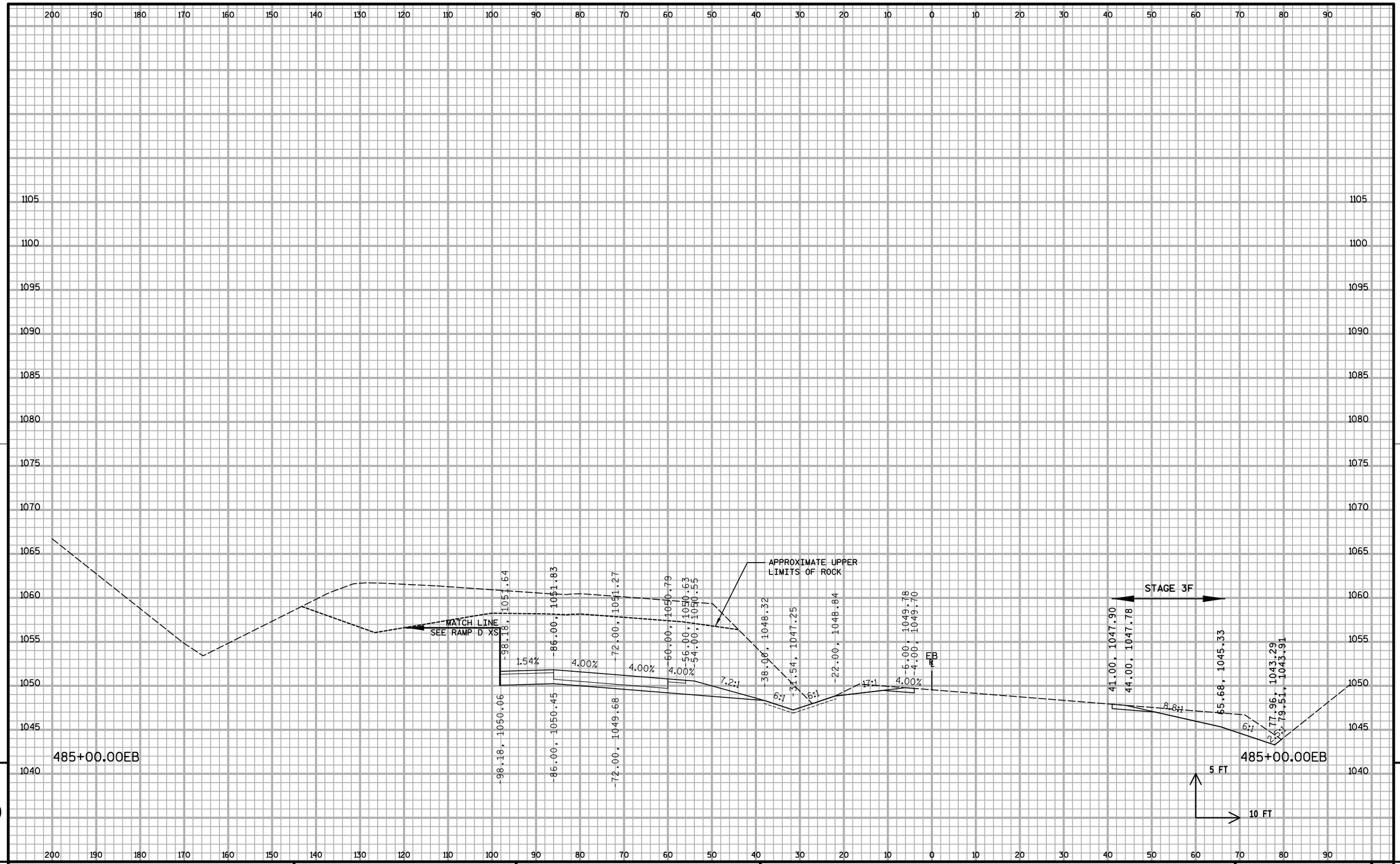
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET:	E

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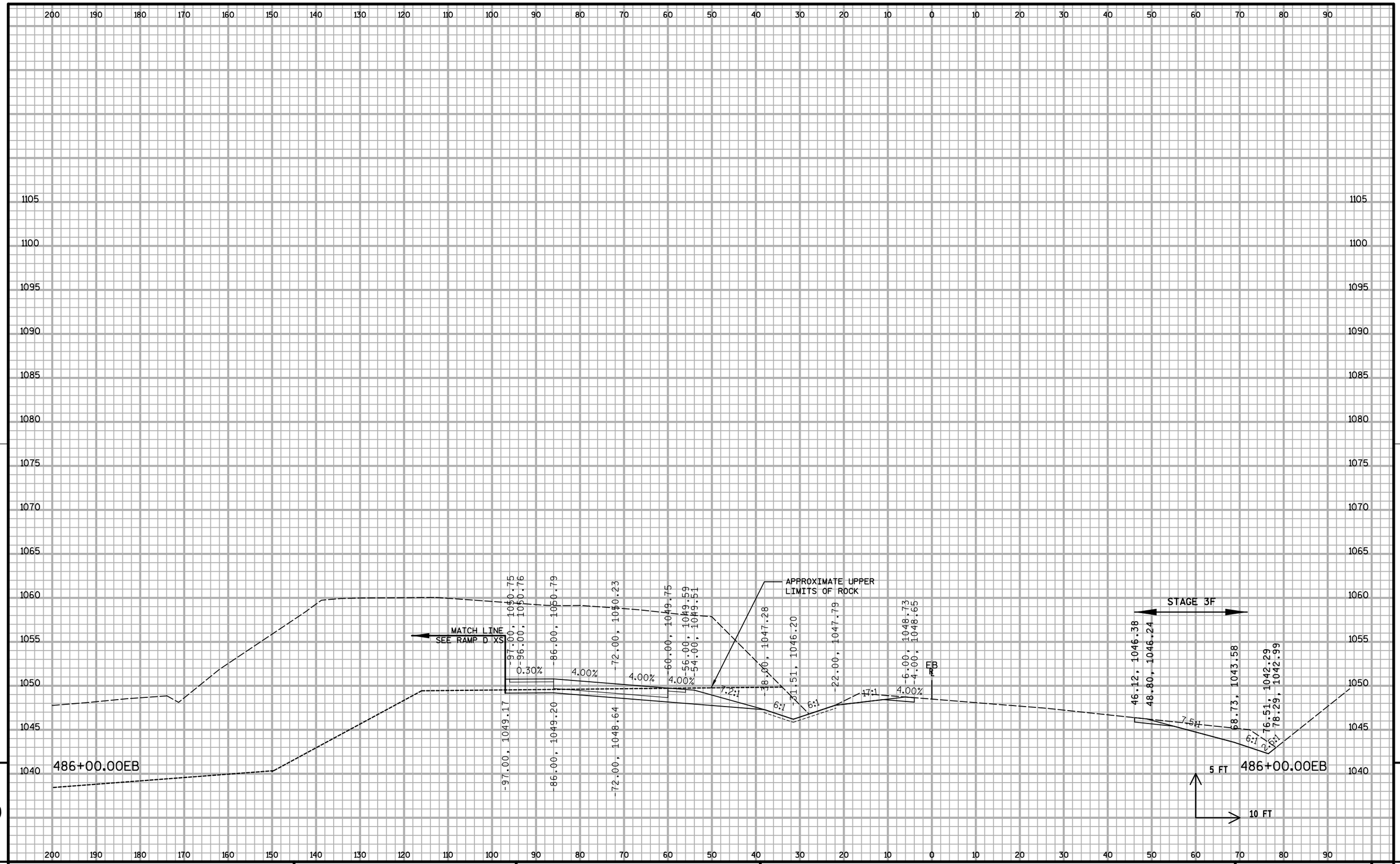
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



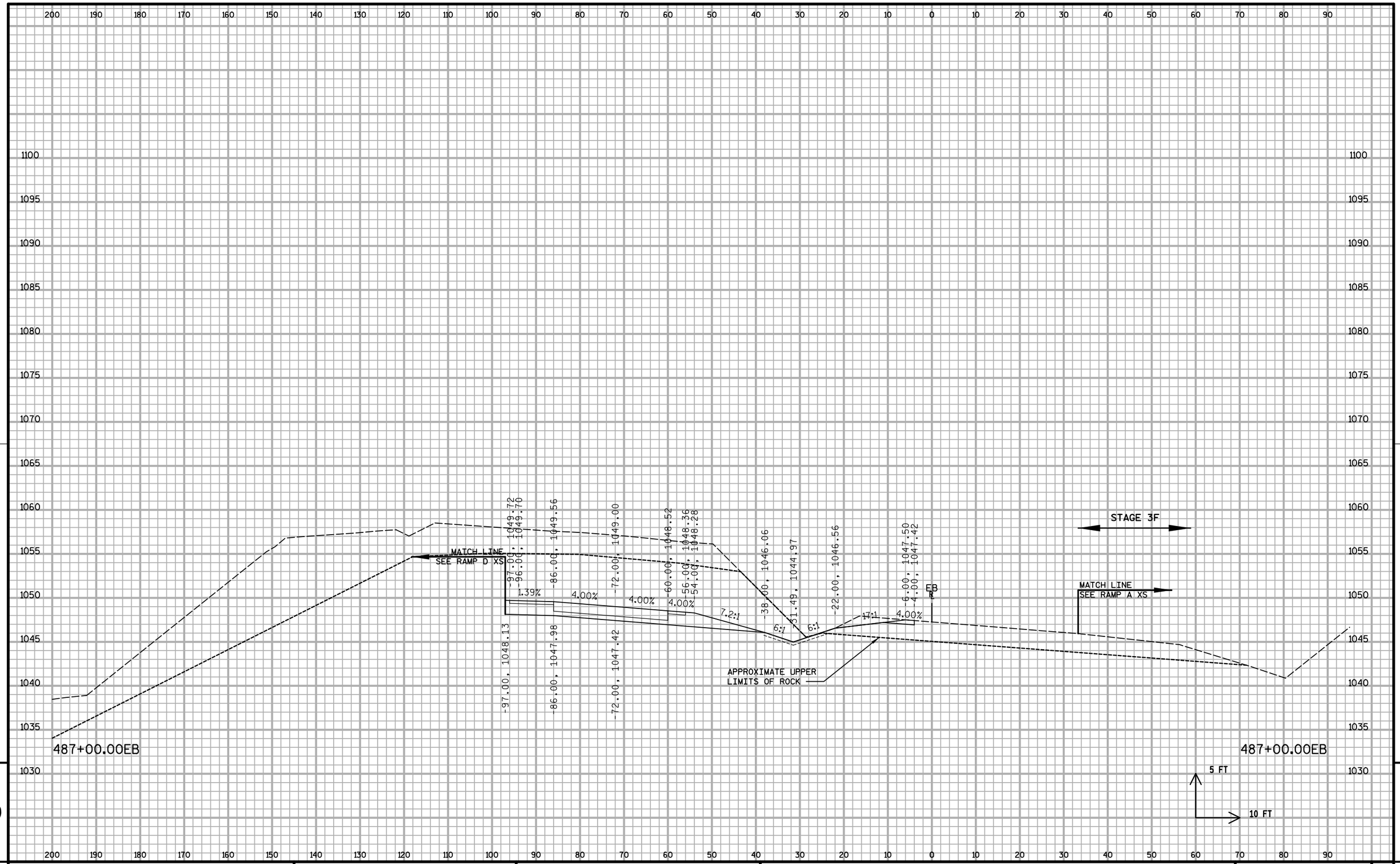
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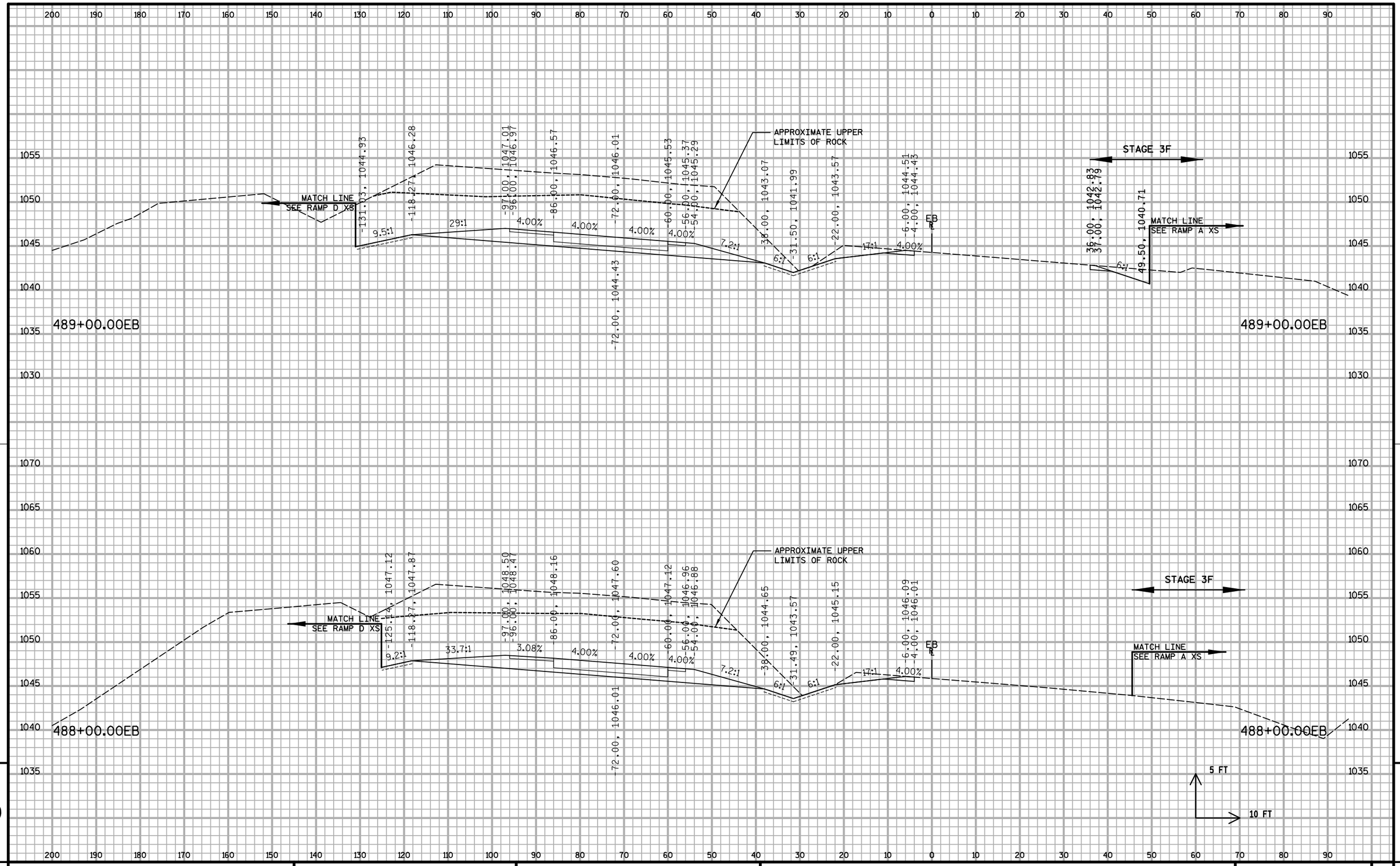
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET: 874	E



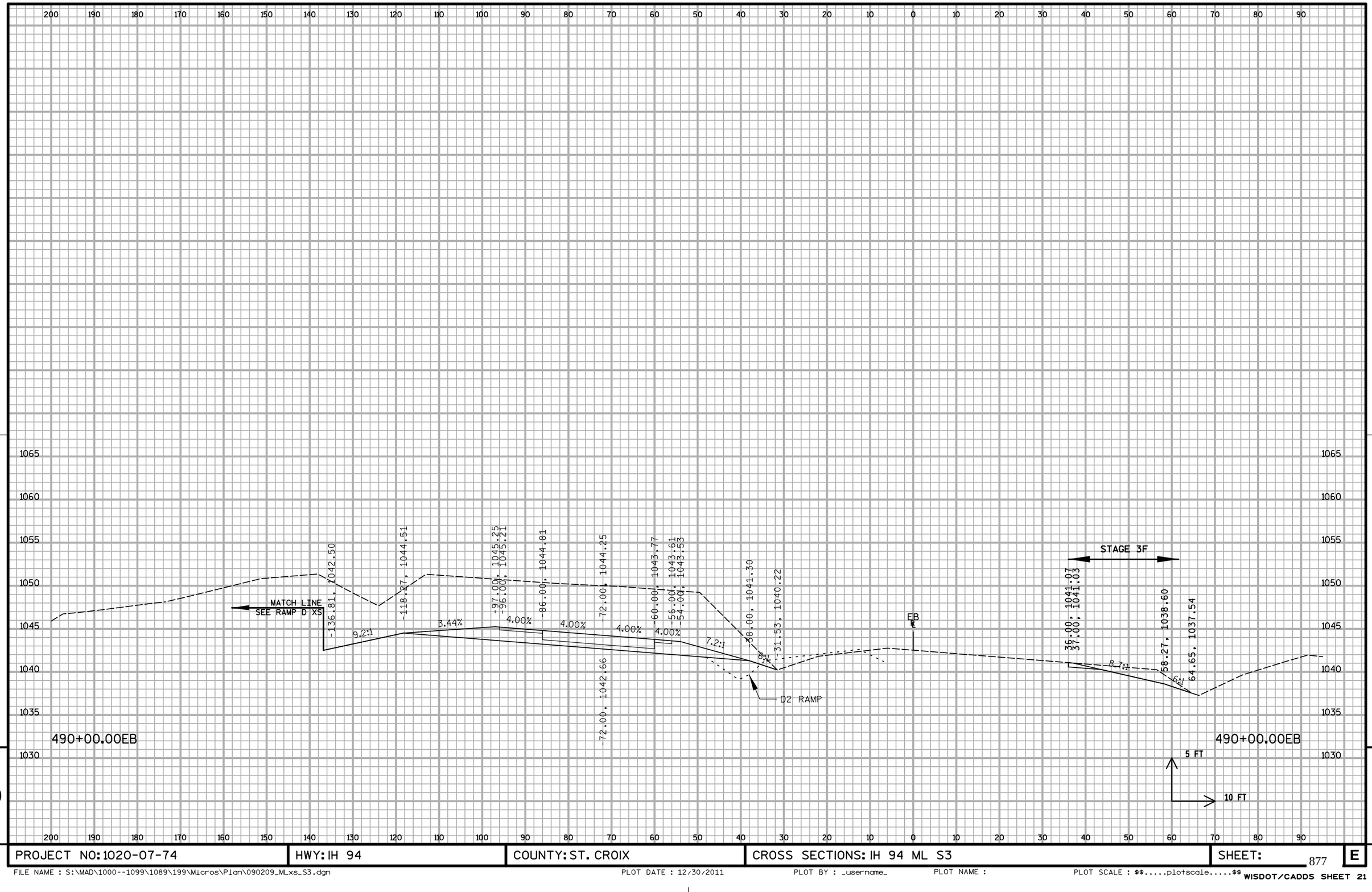
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

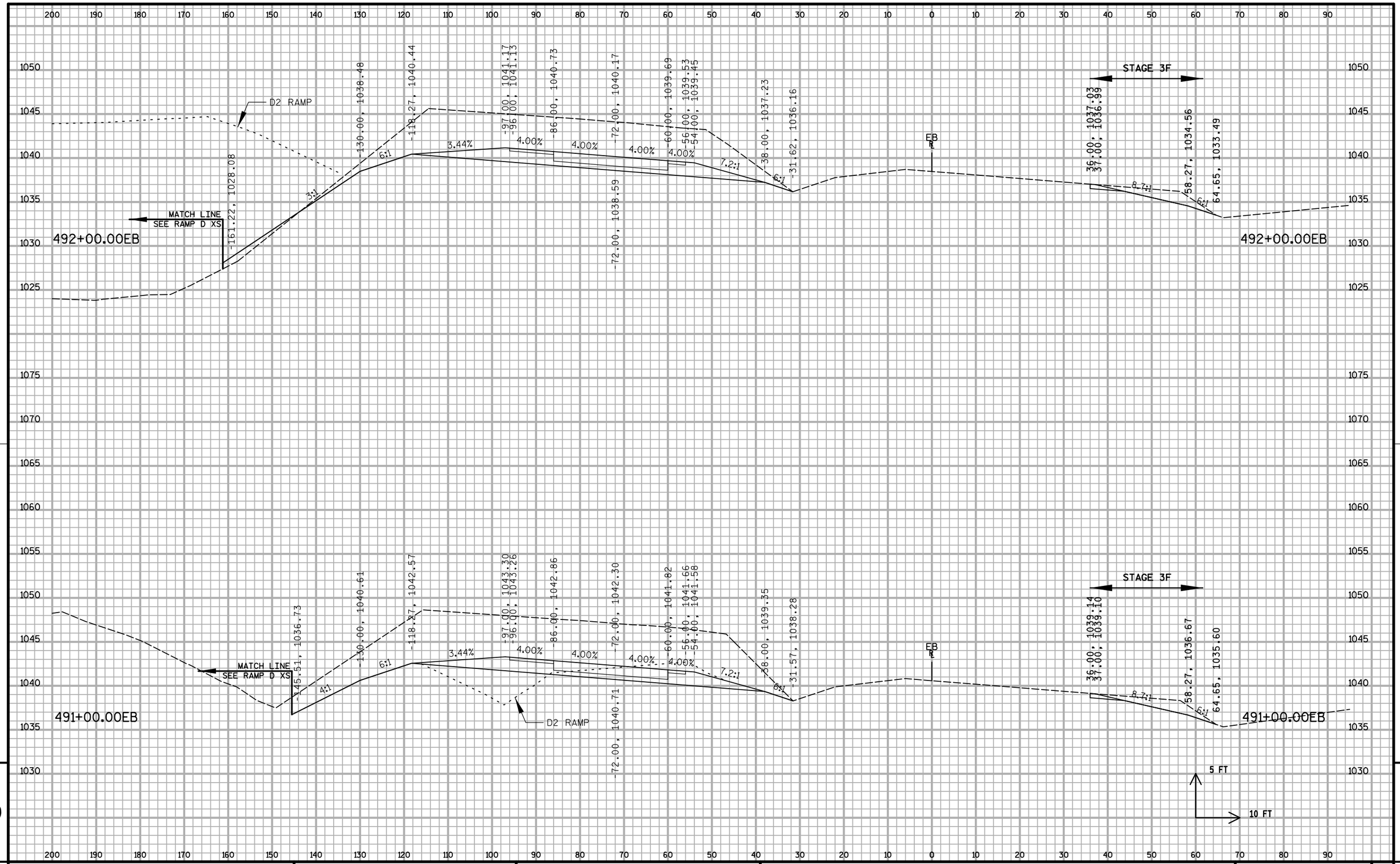


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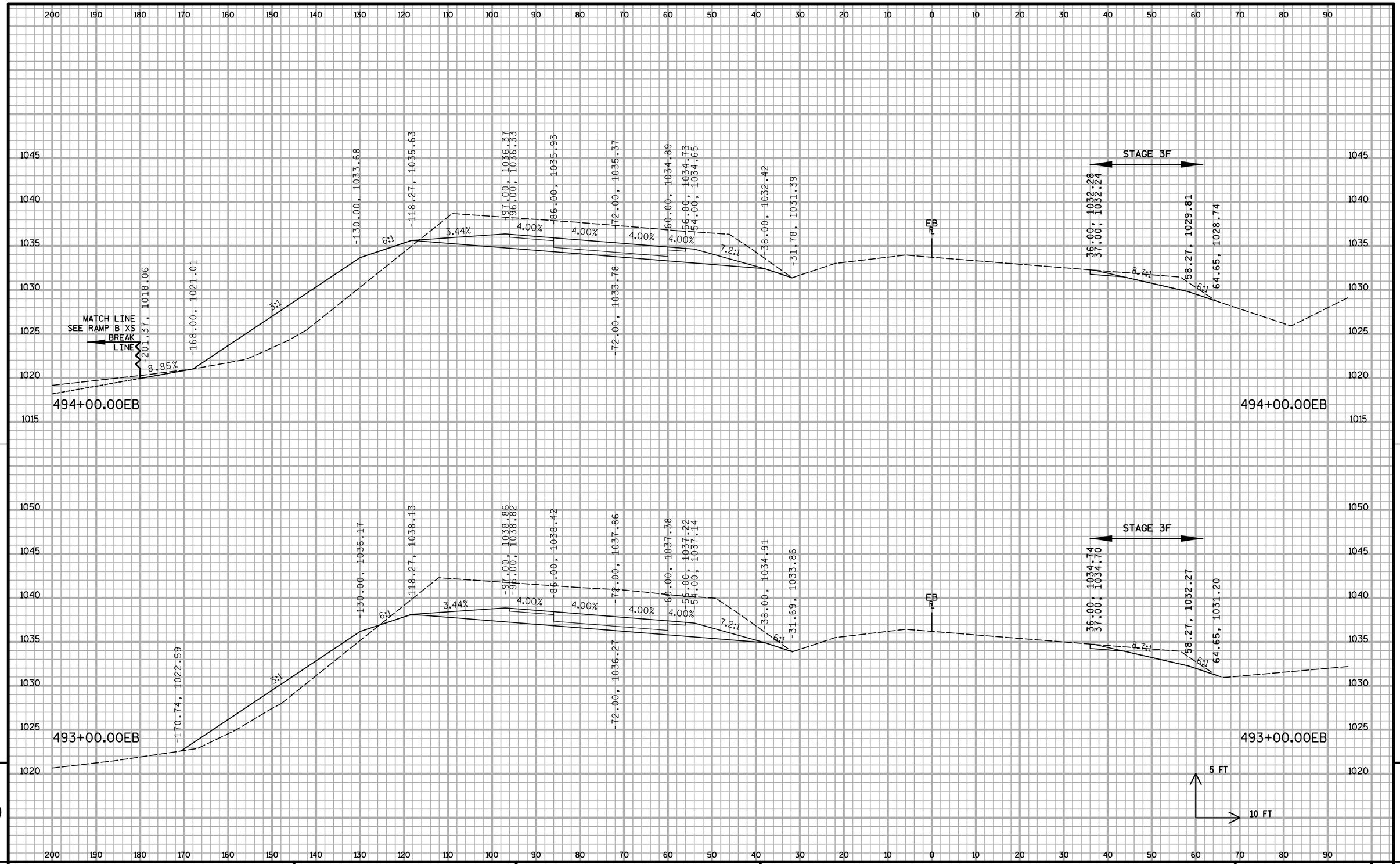
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



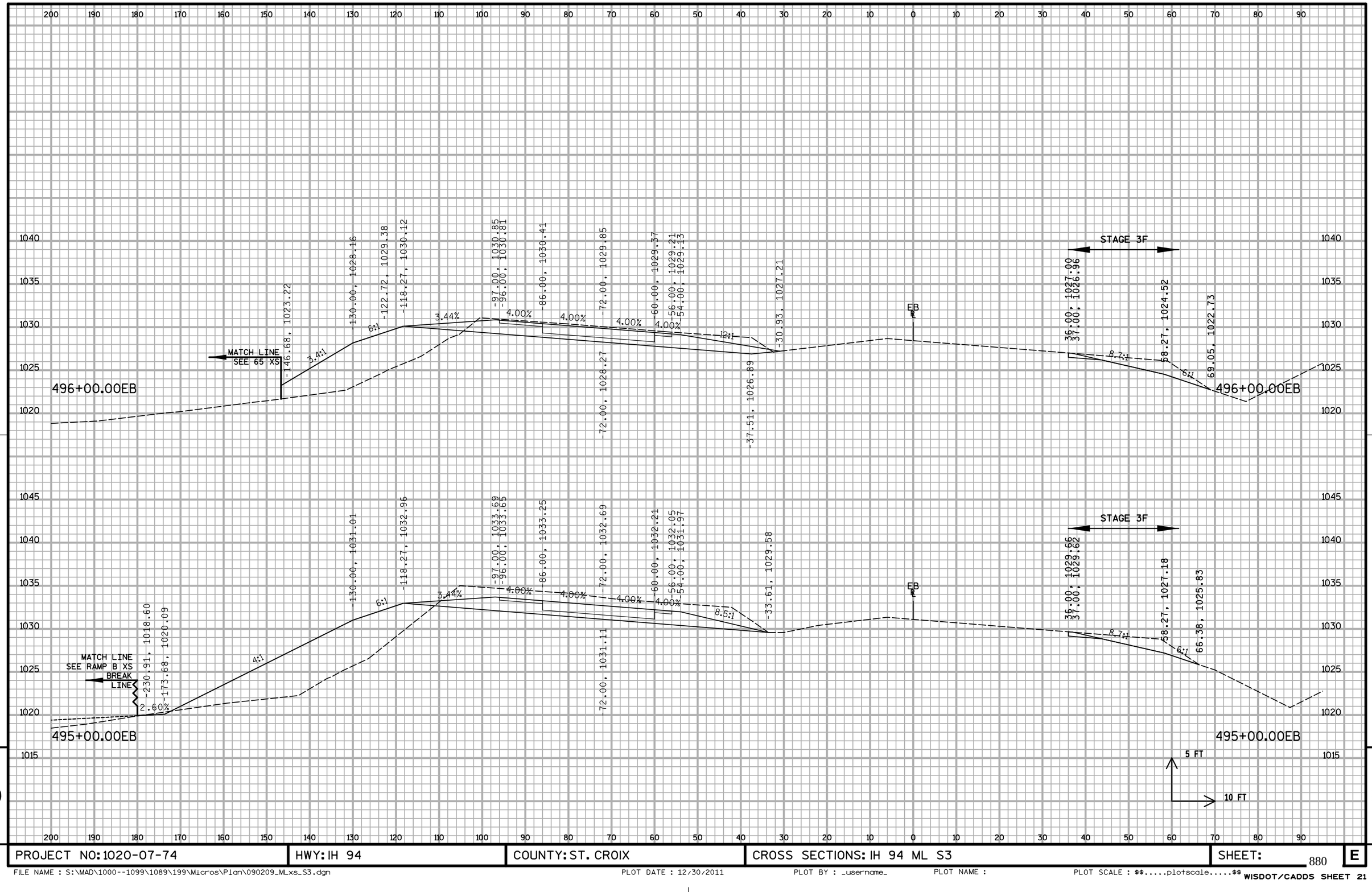
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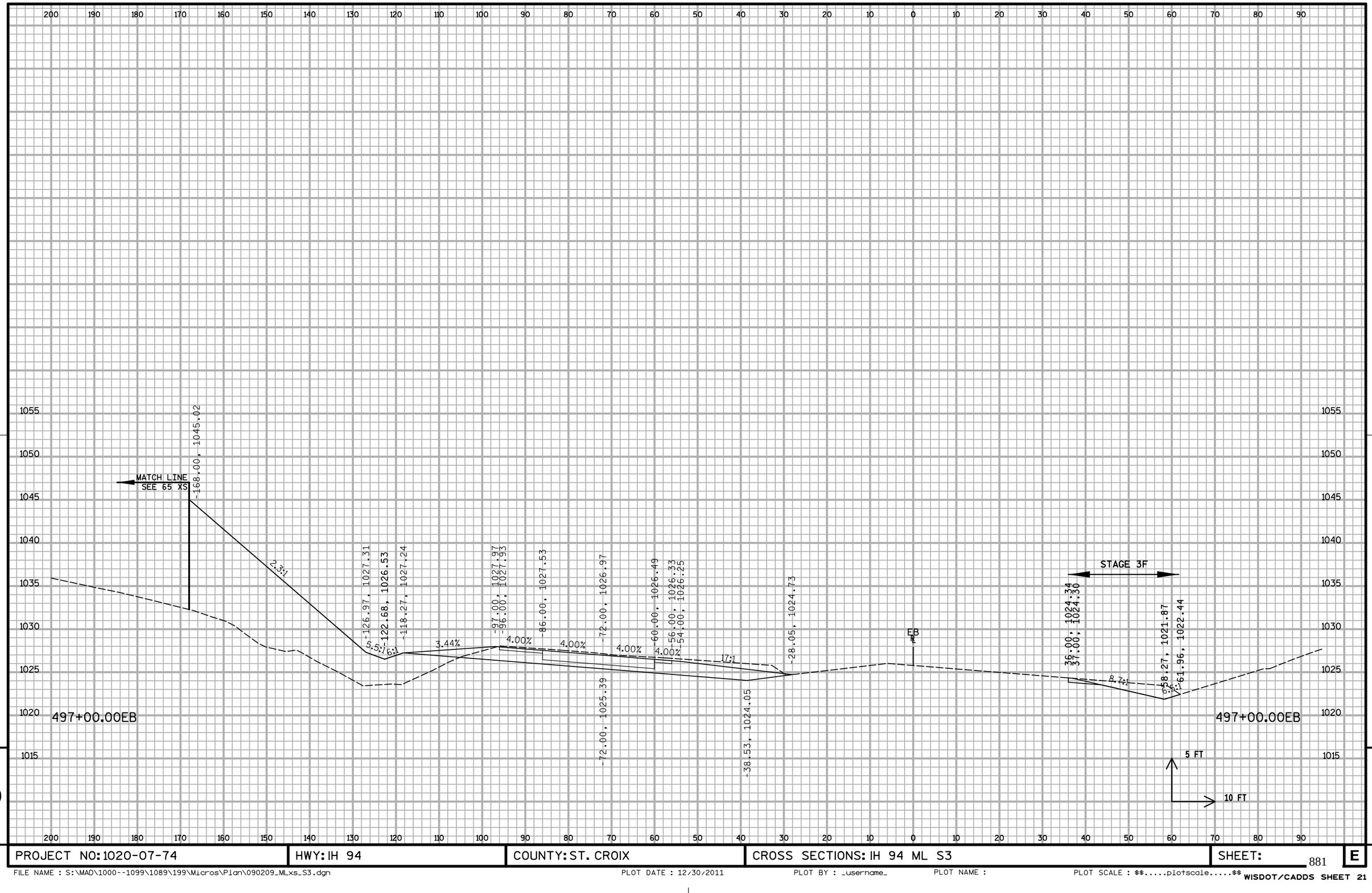
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET: 880	E

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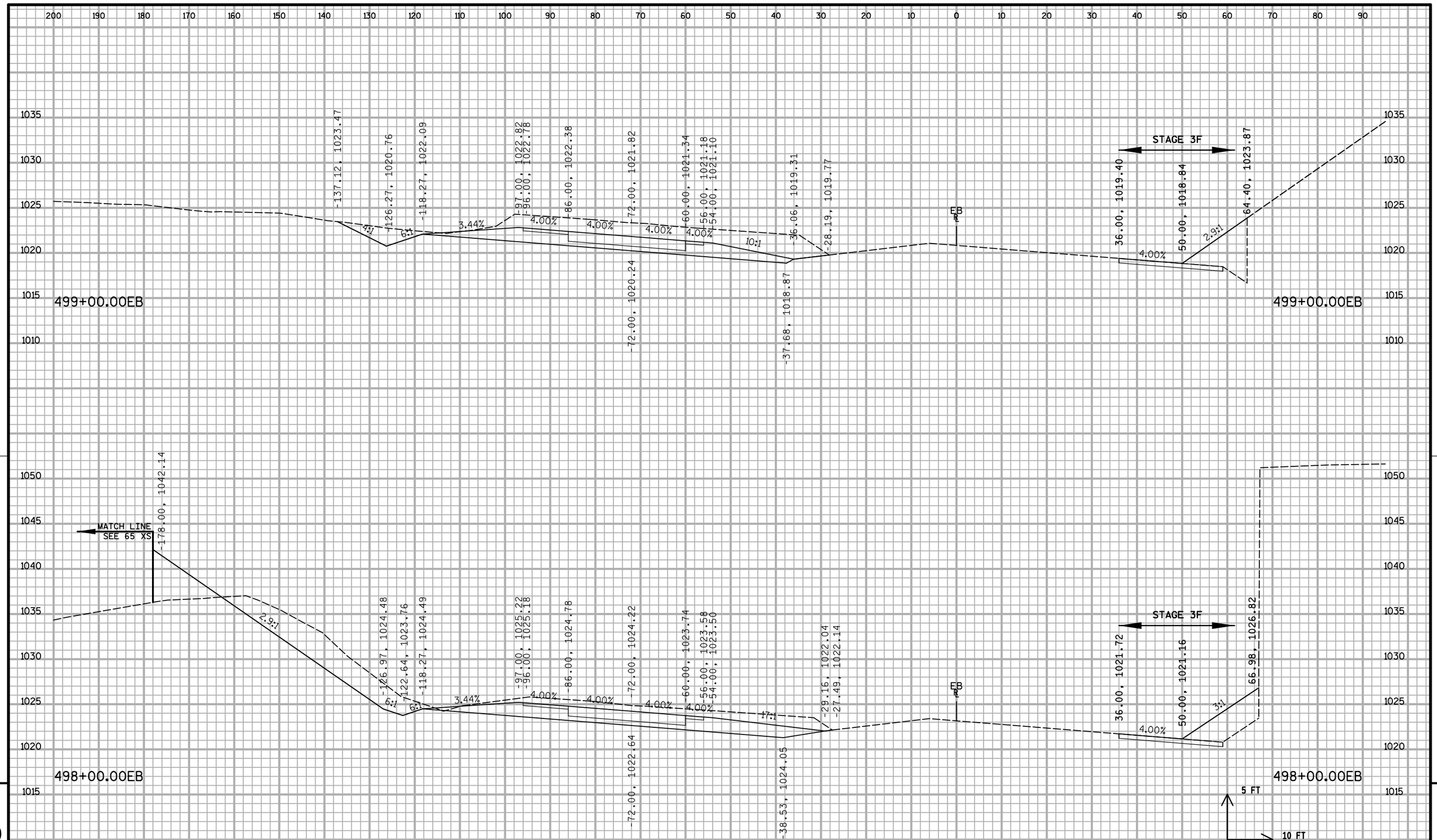
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET:	E

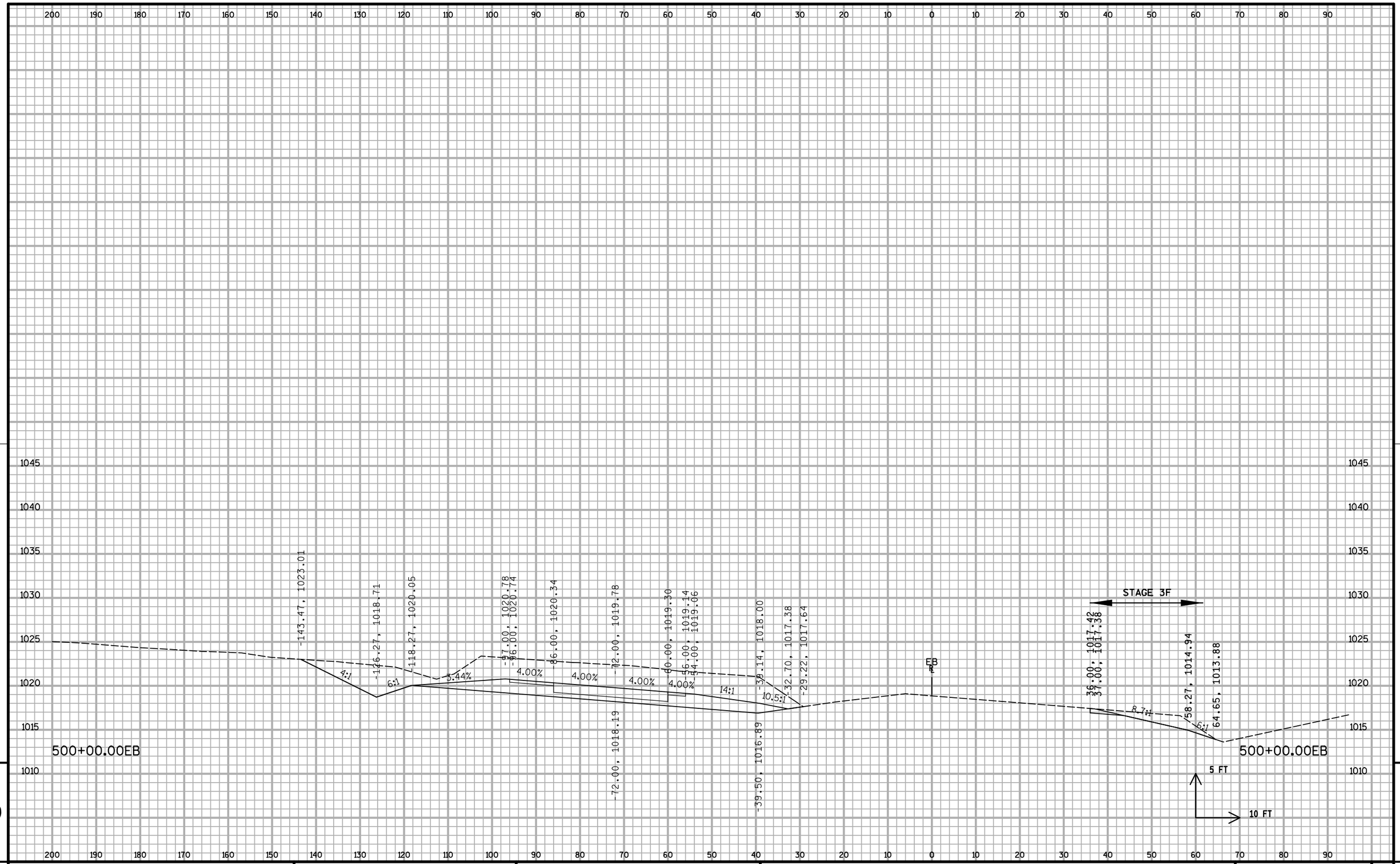
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WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

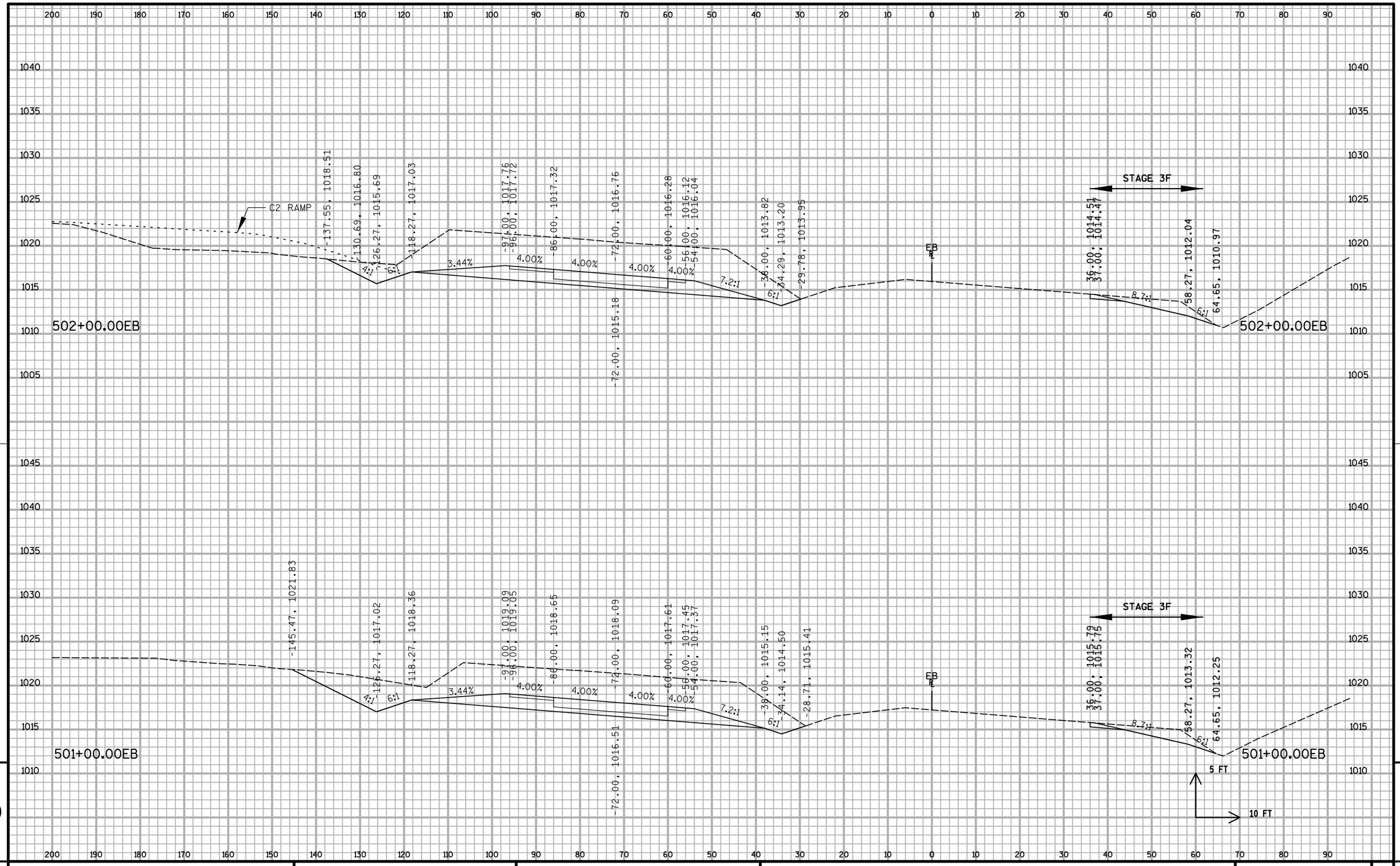


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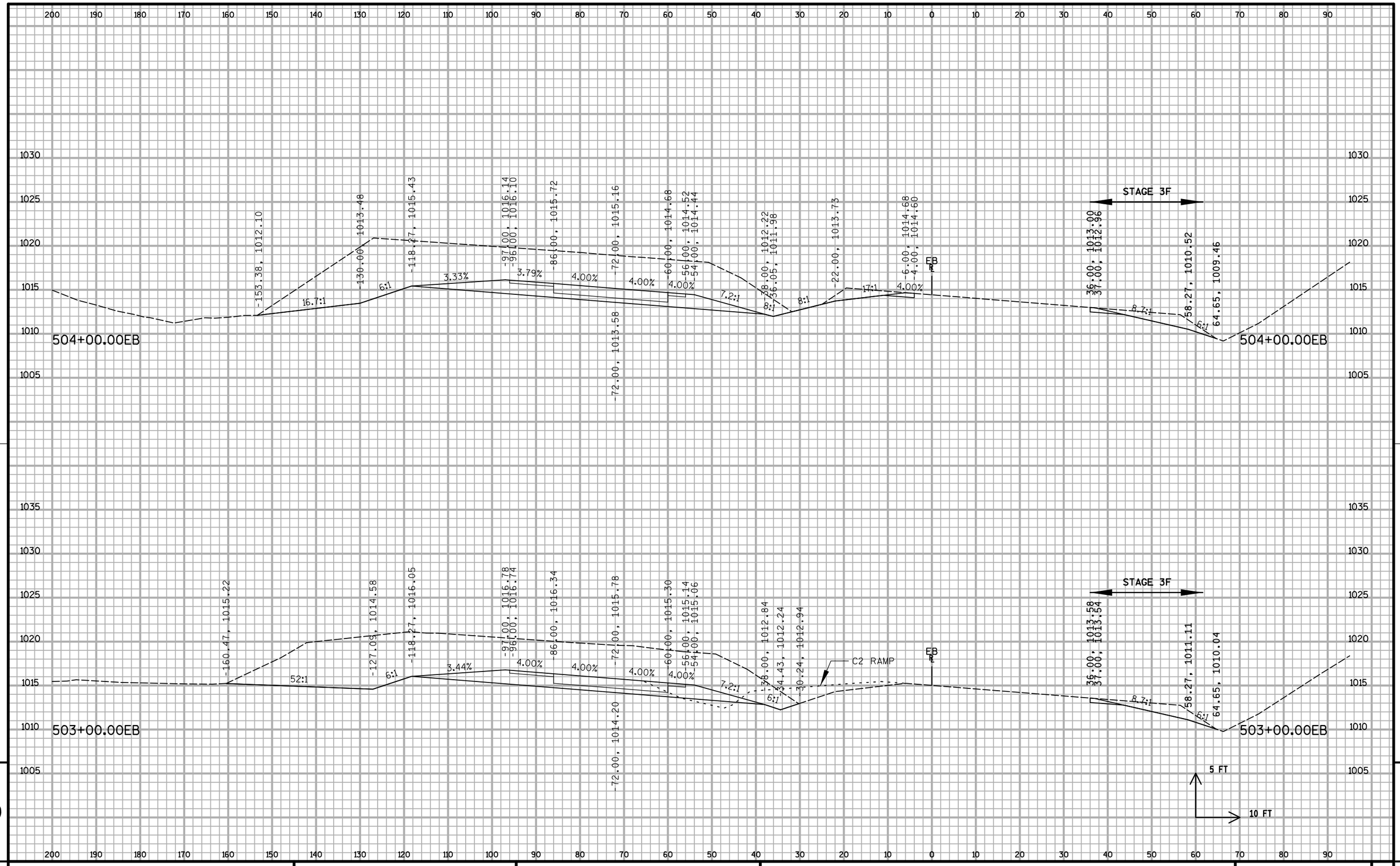
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET:	E

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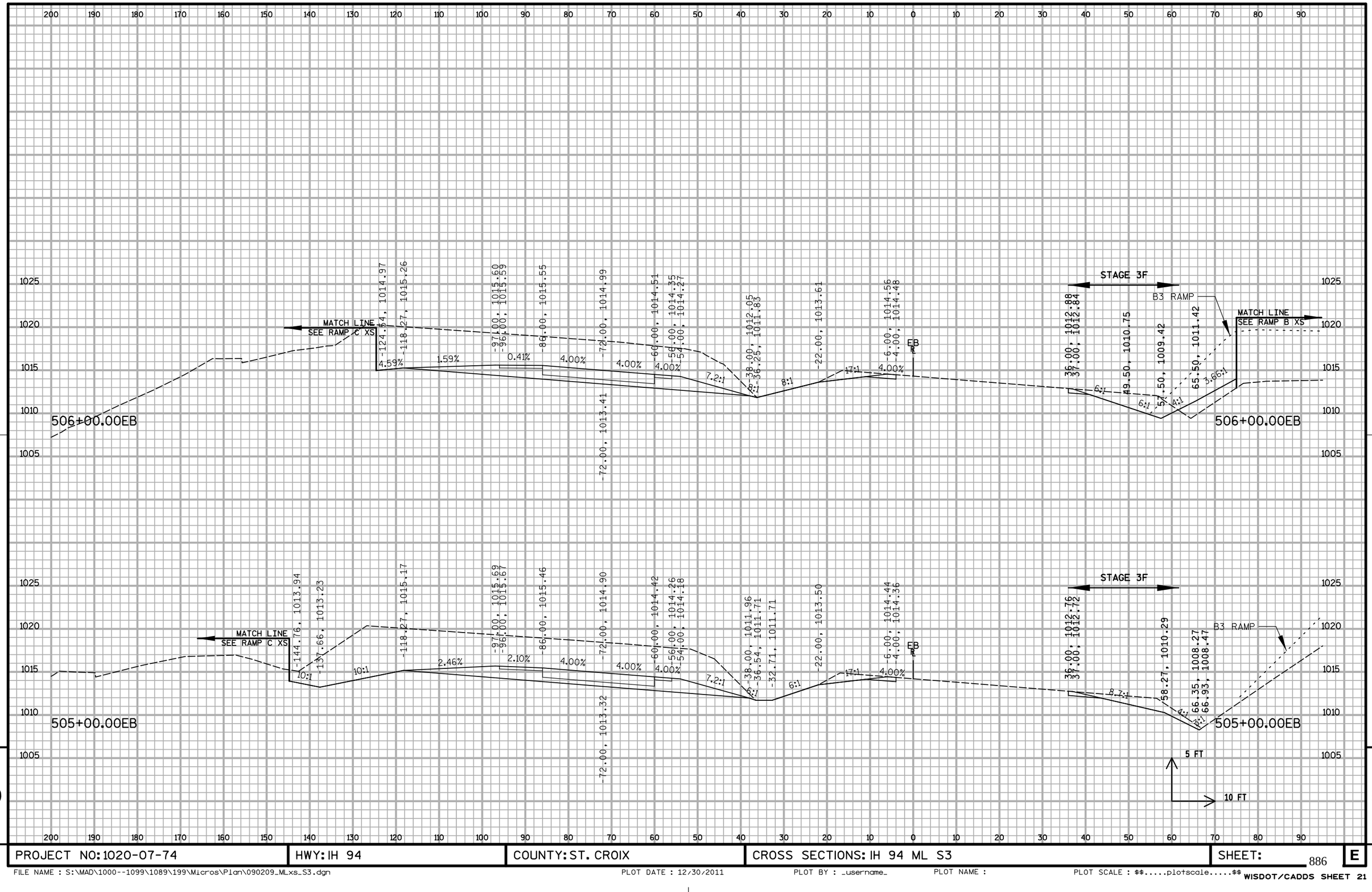
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



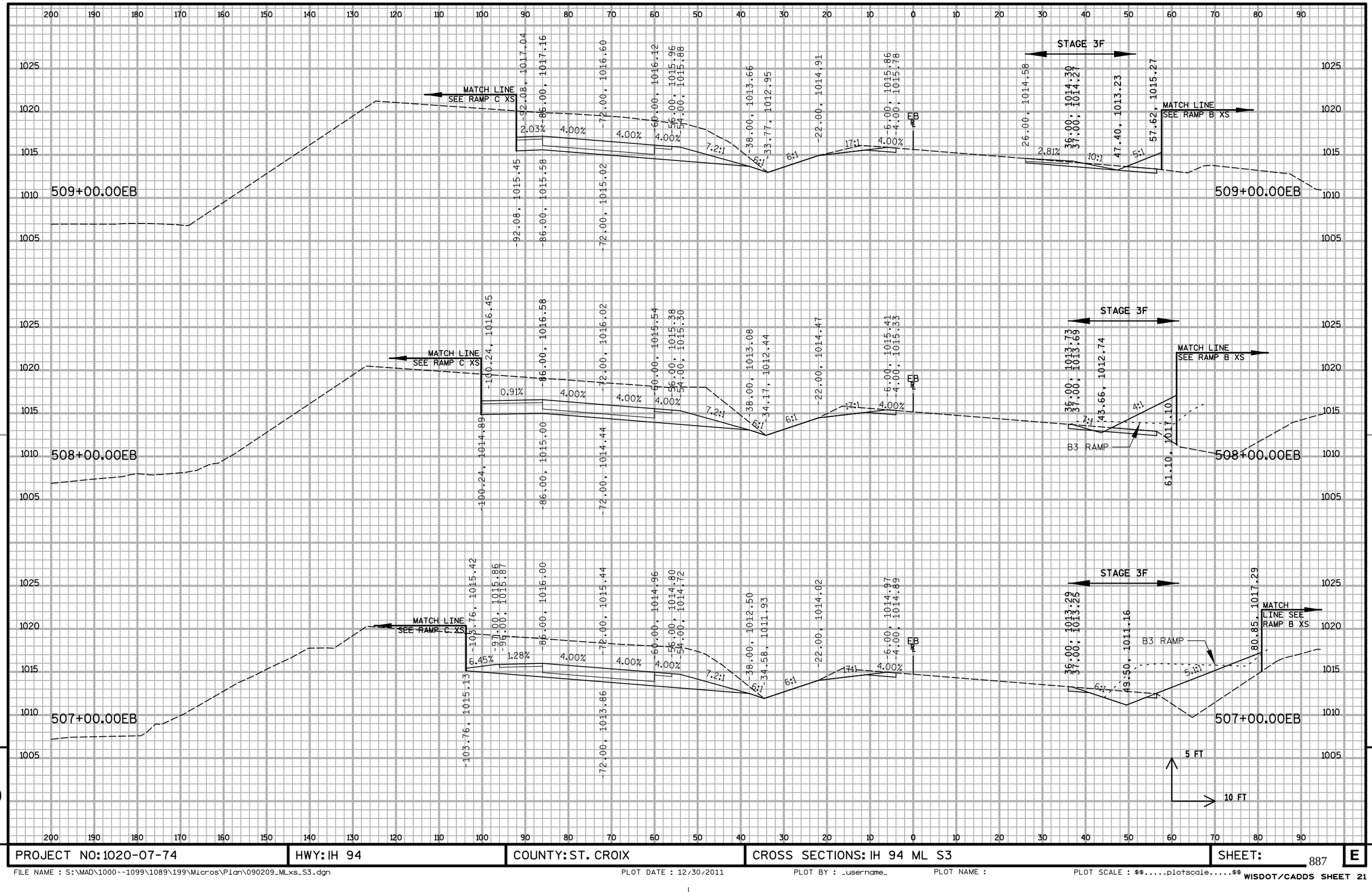
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



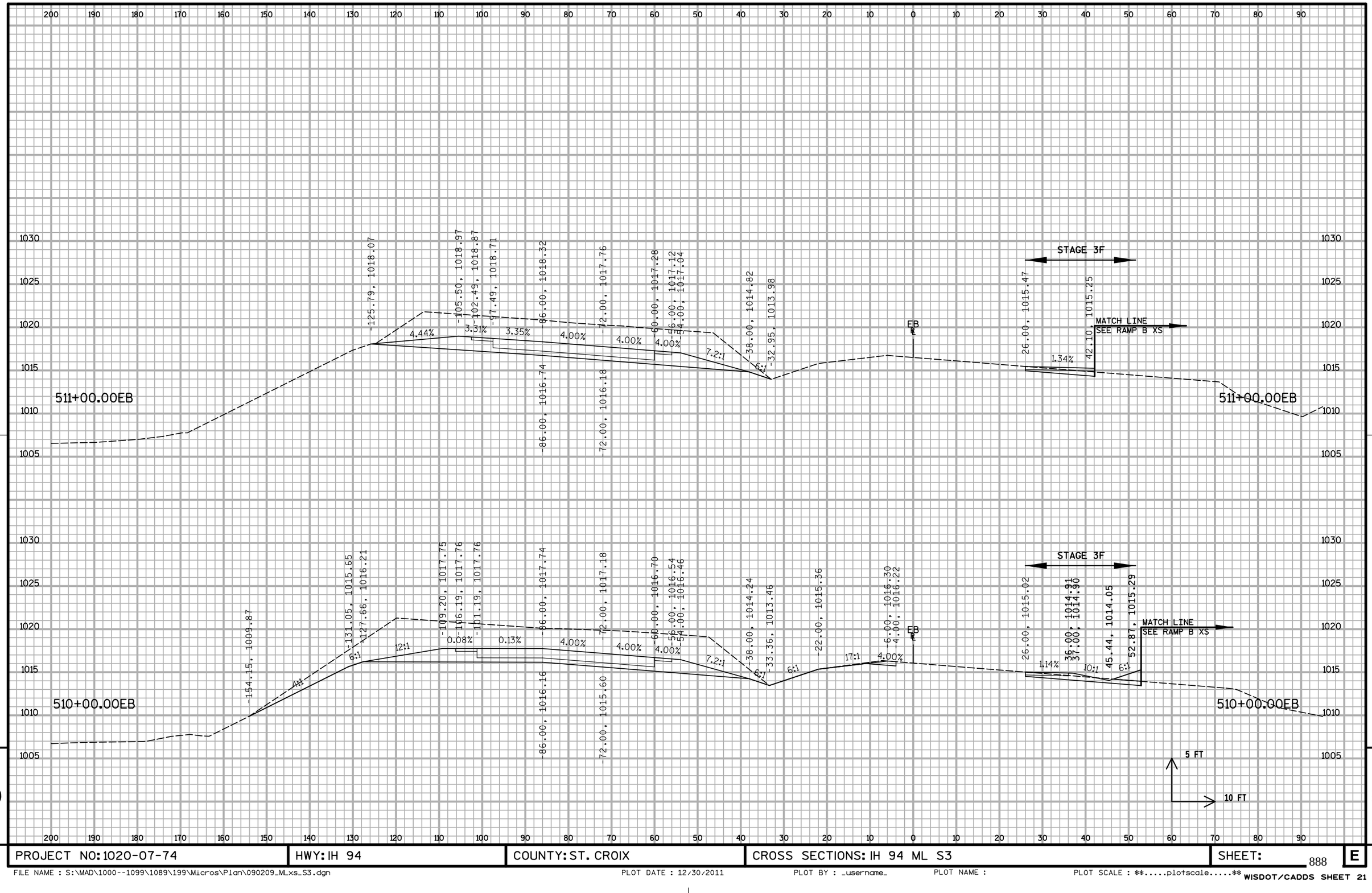
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET:	E

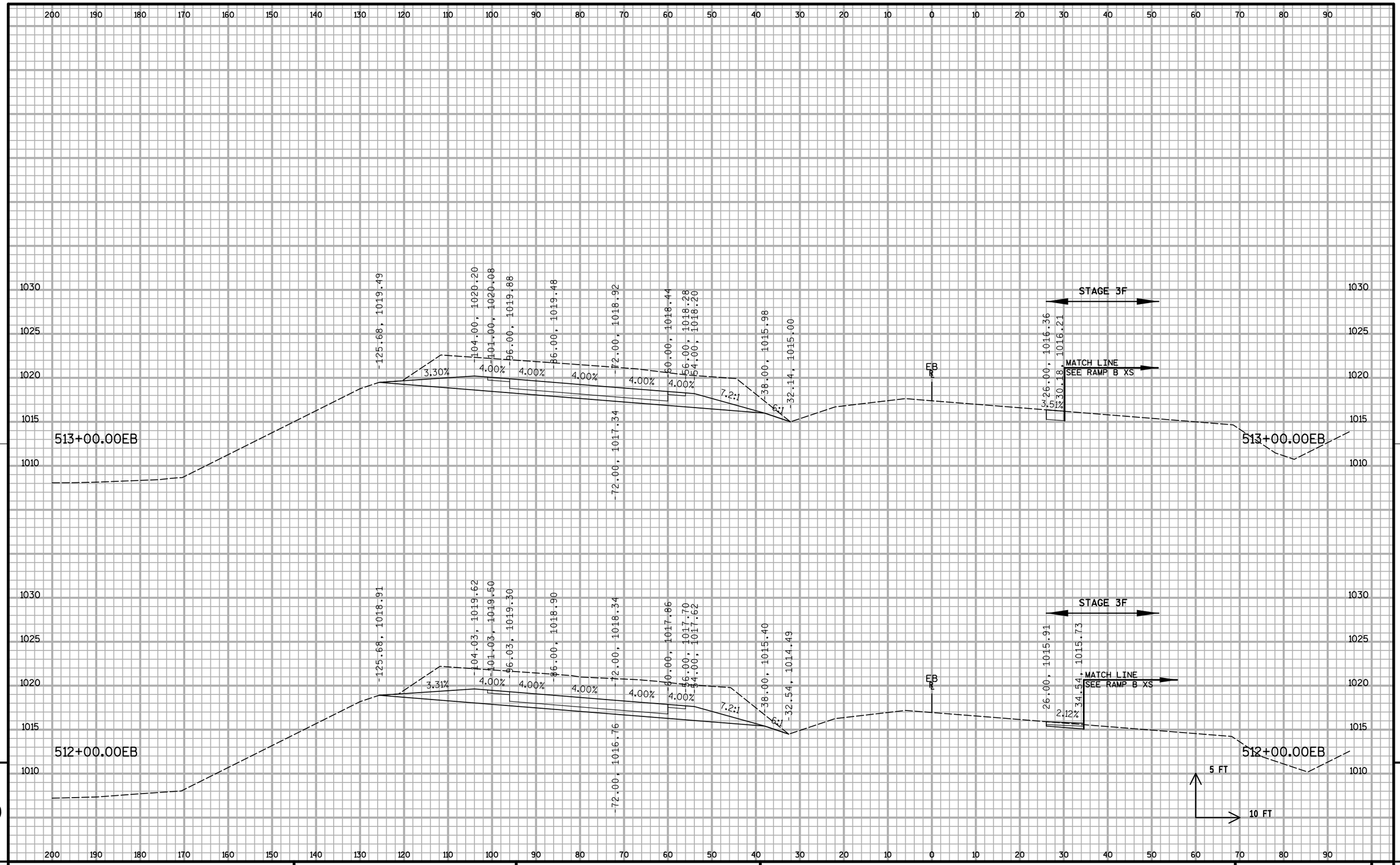
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

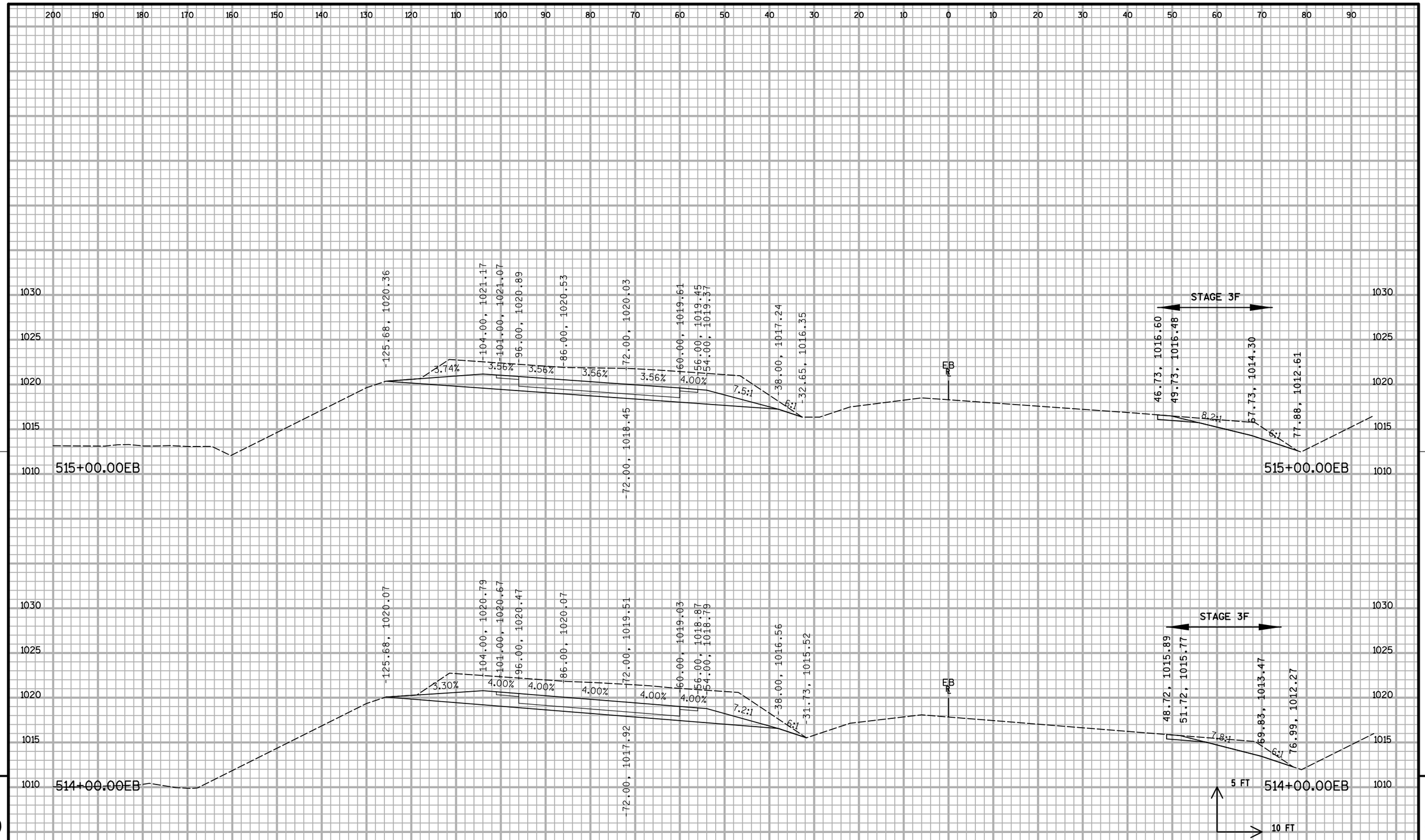


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

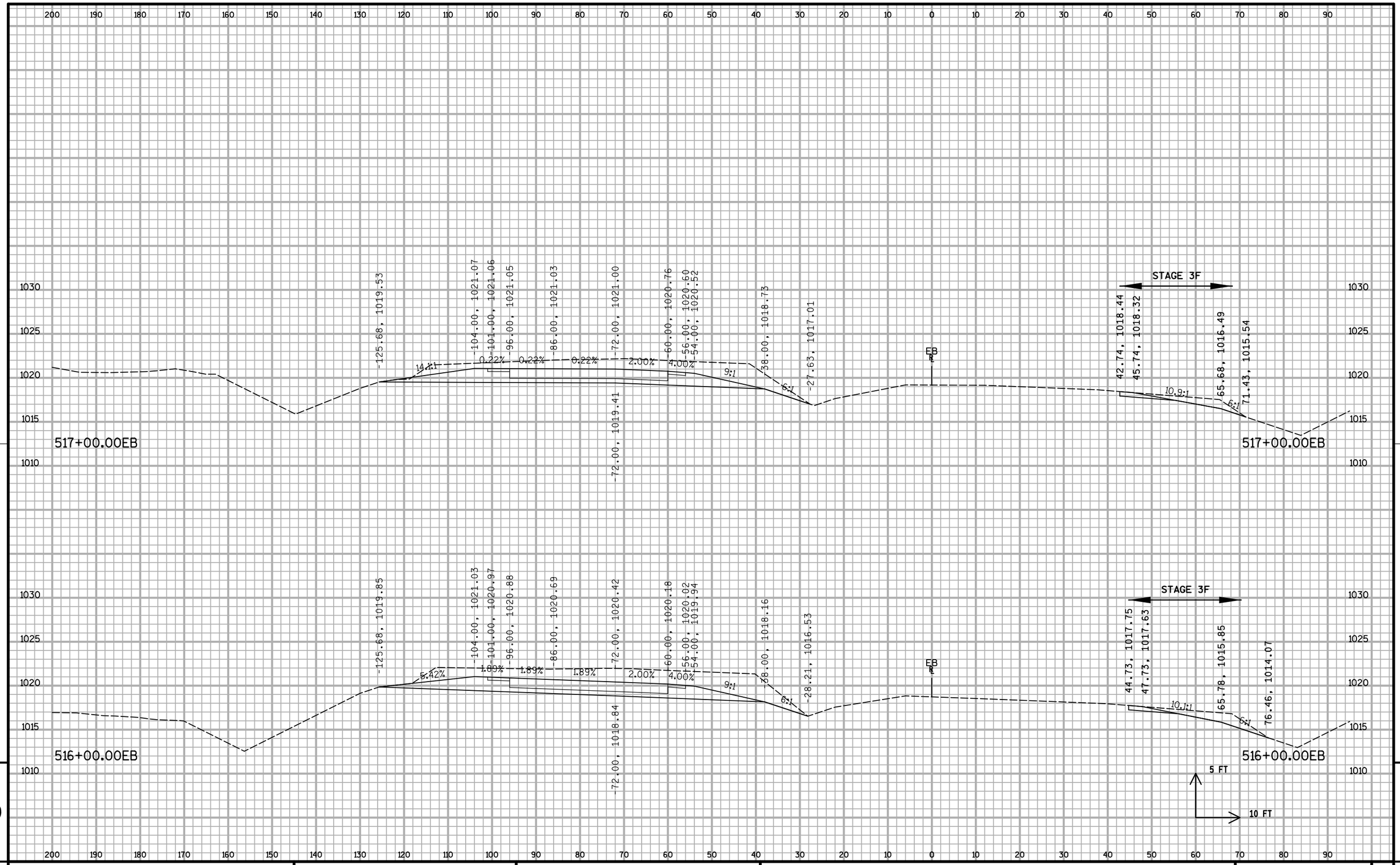


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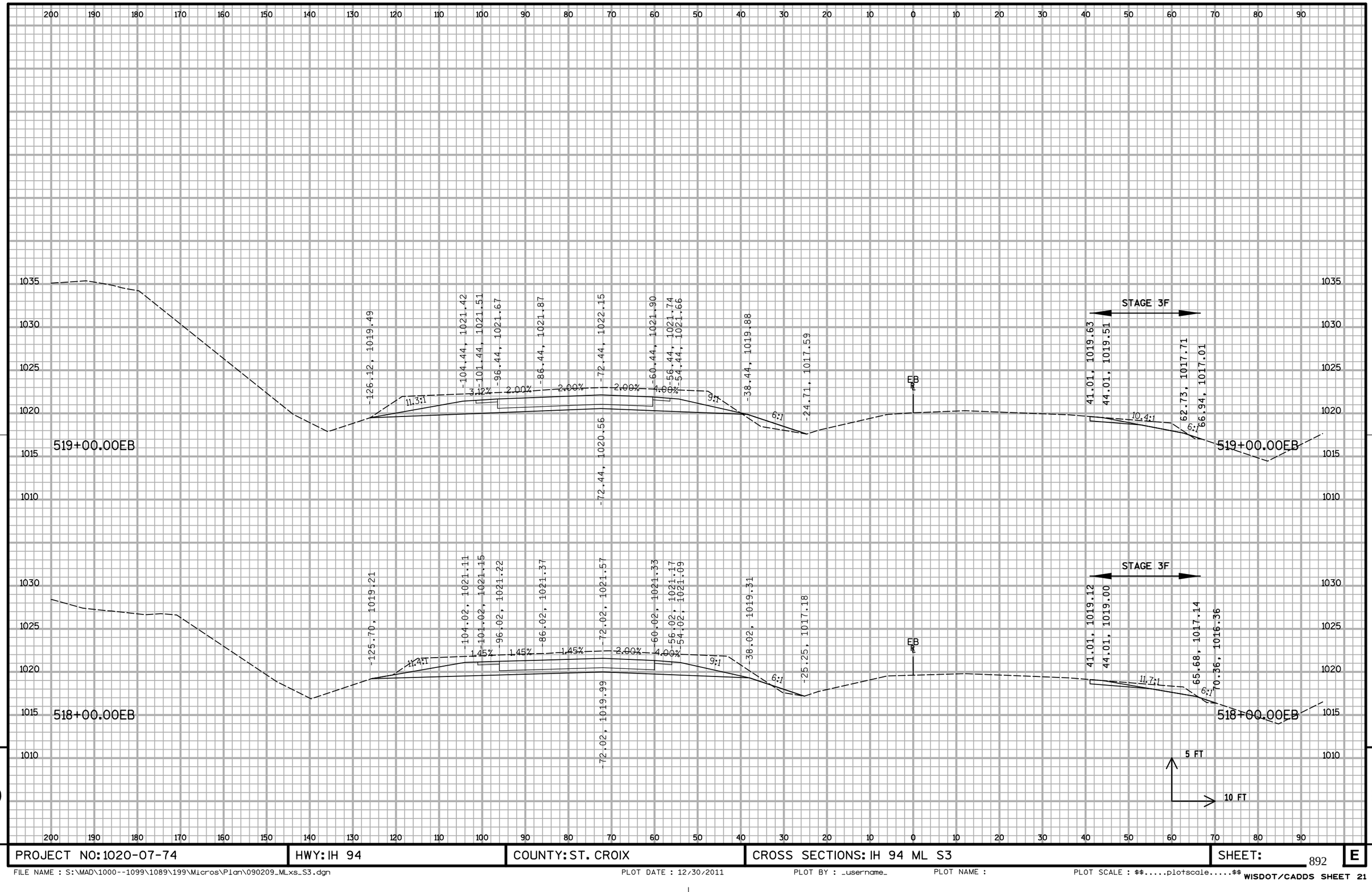
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET:	E

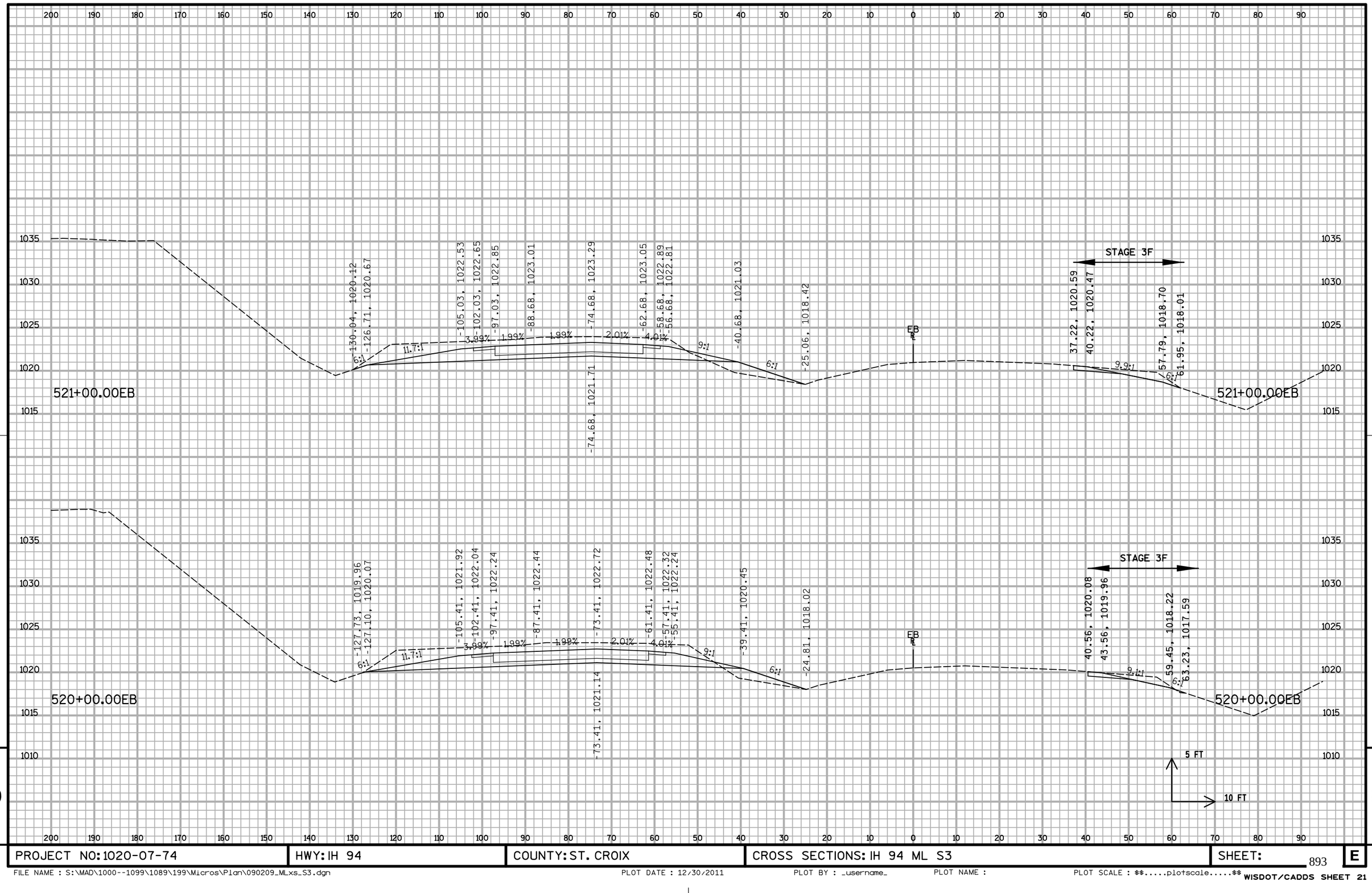


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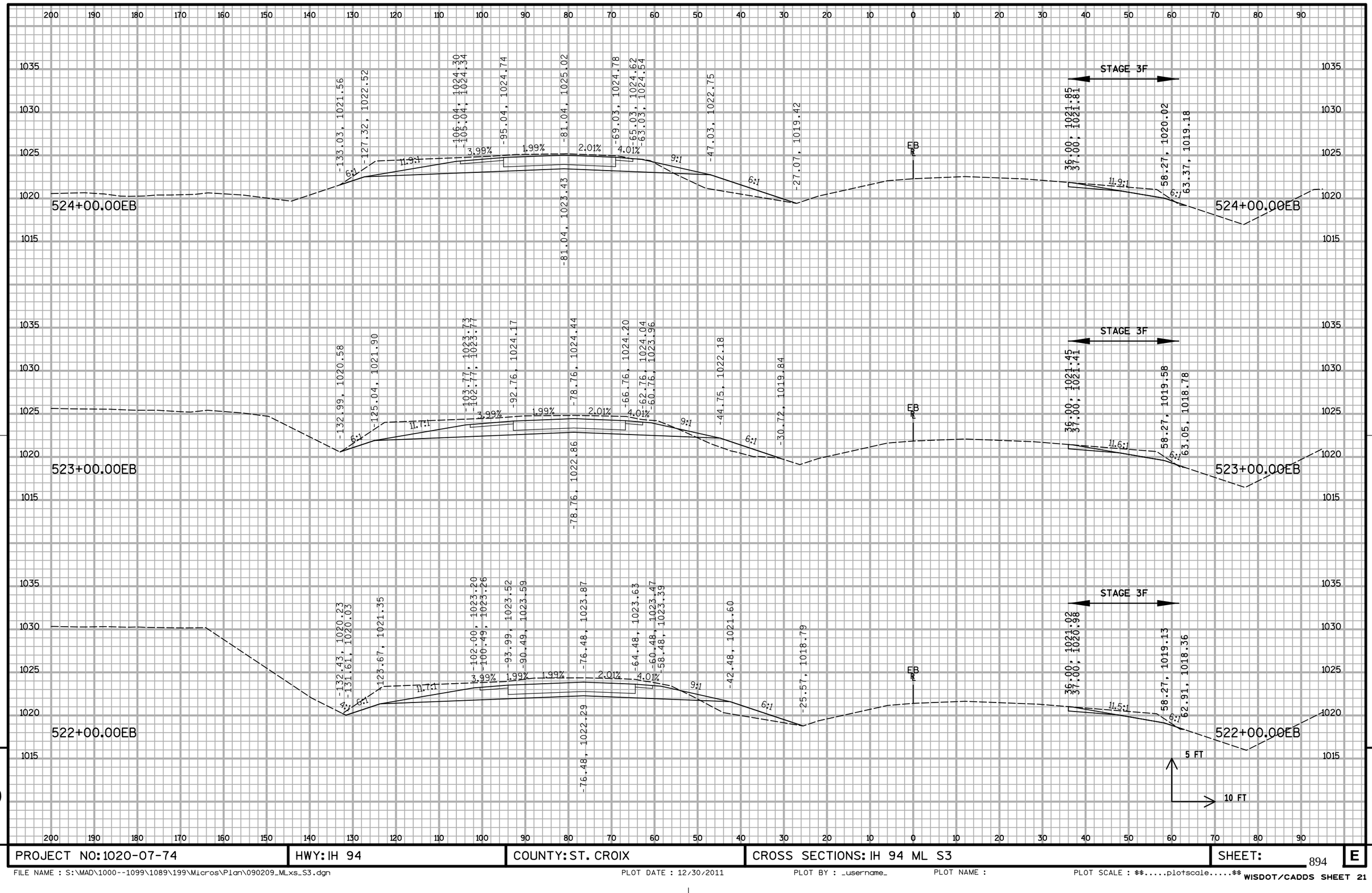
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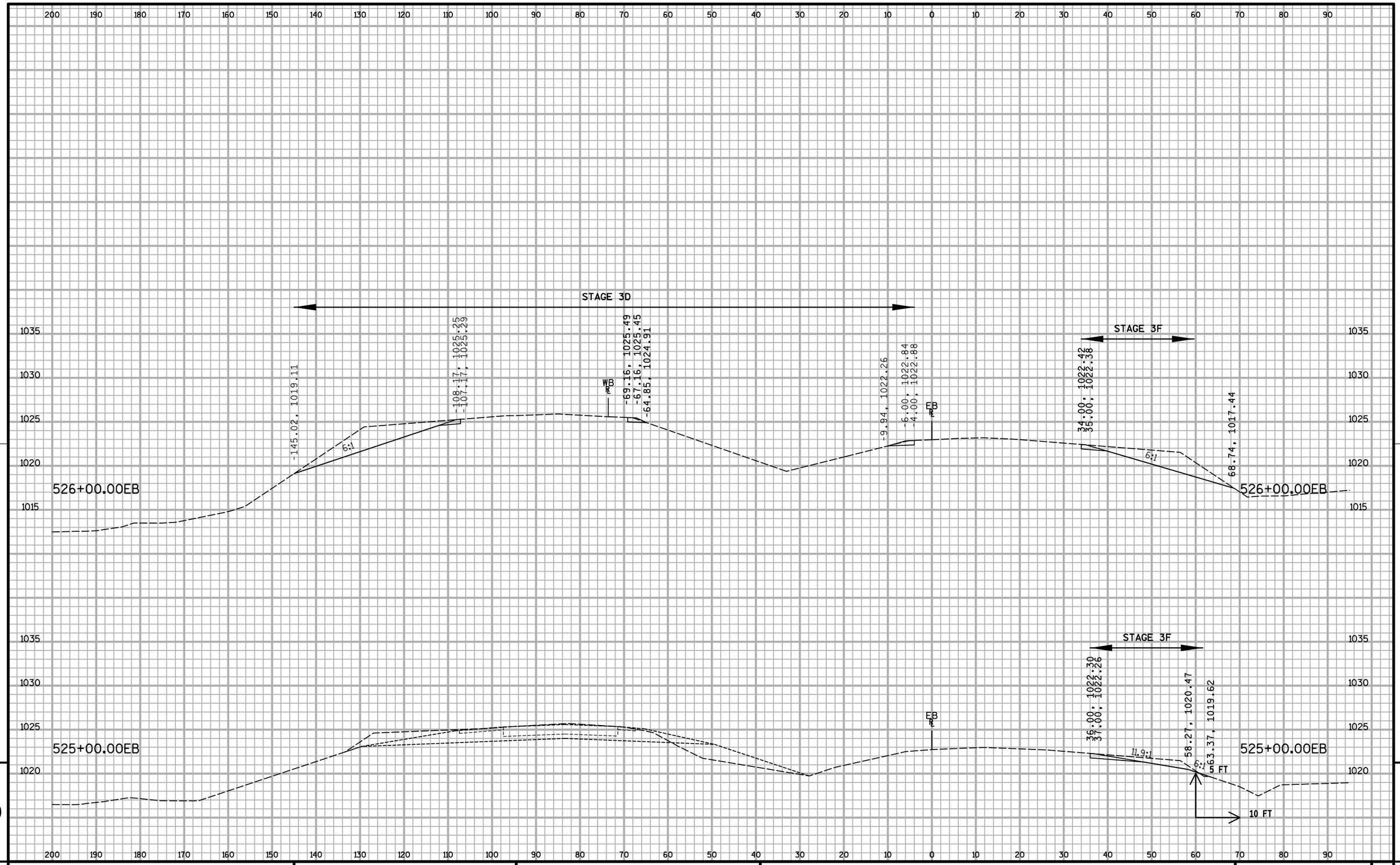
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET:	E

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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET: 894	E

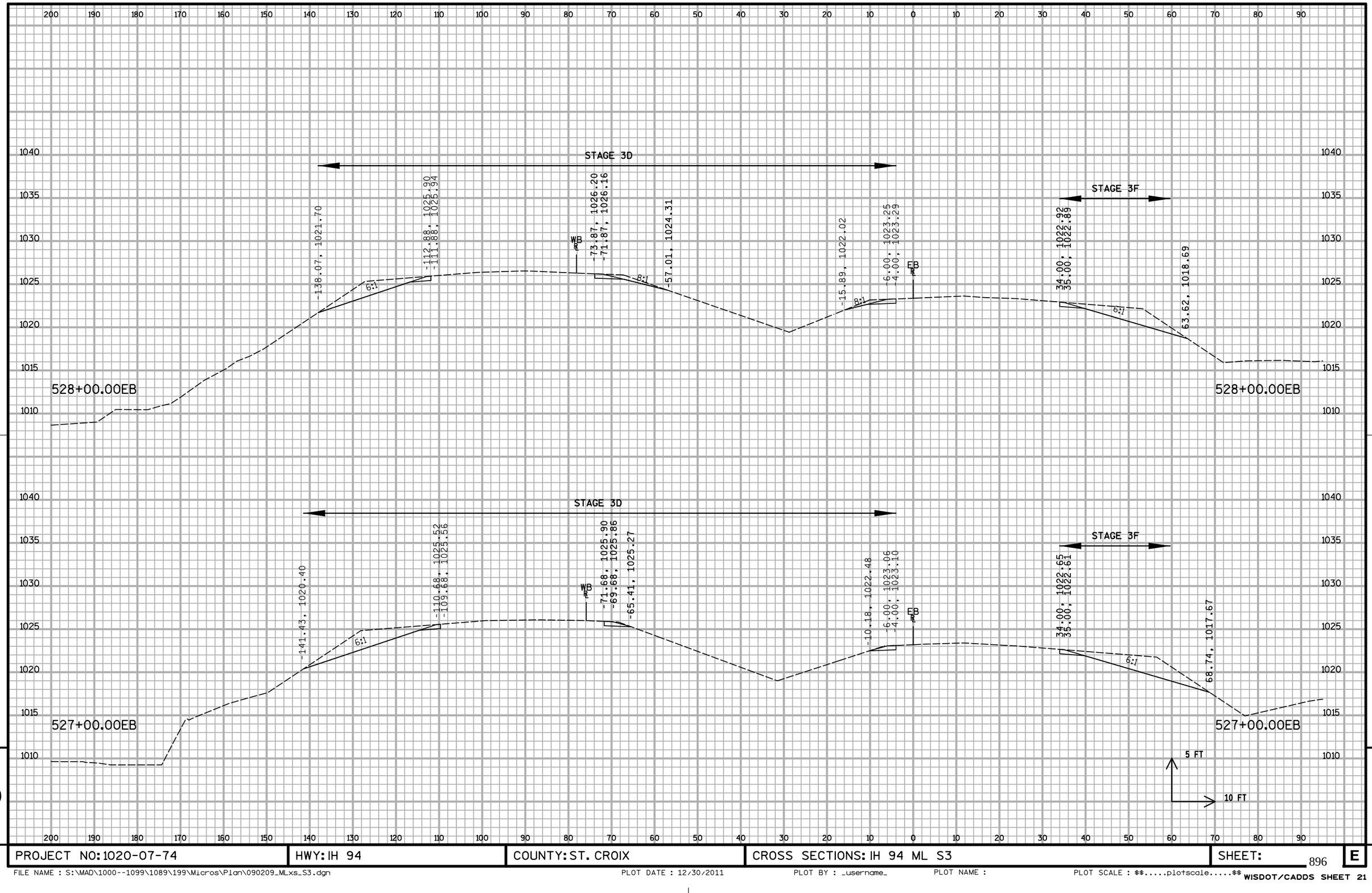
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET:	E

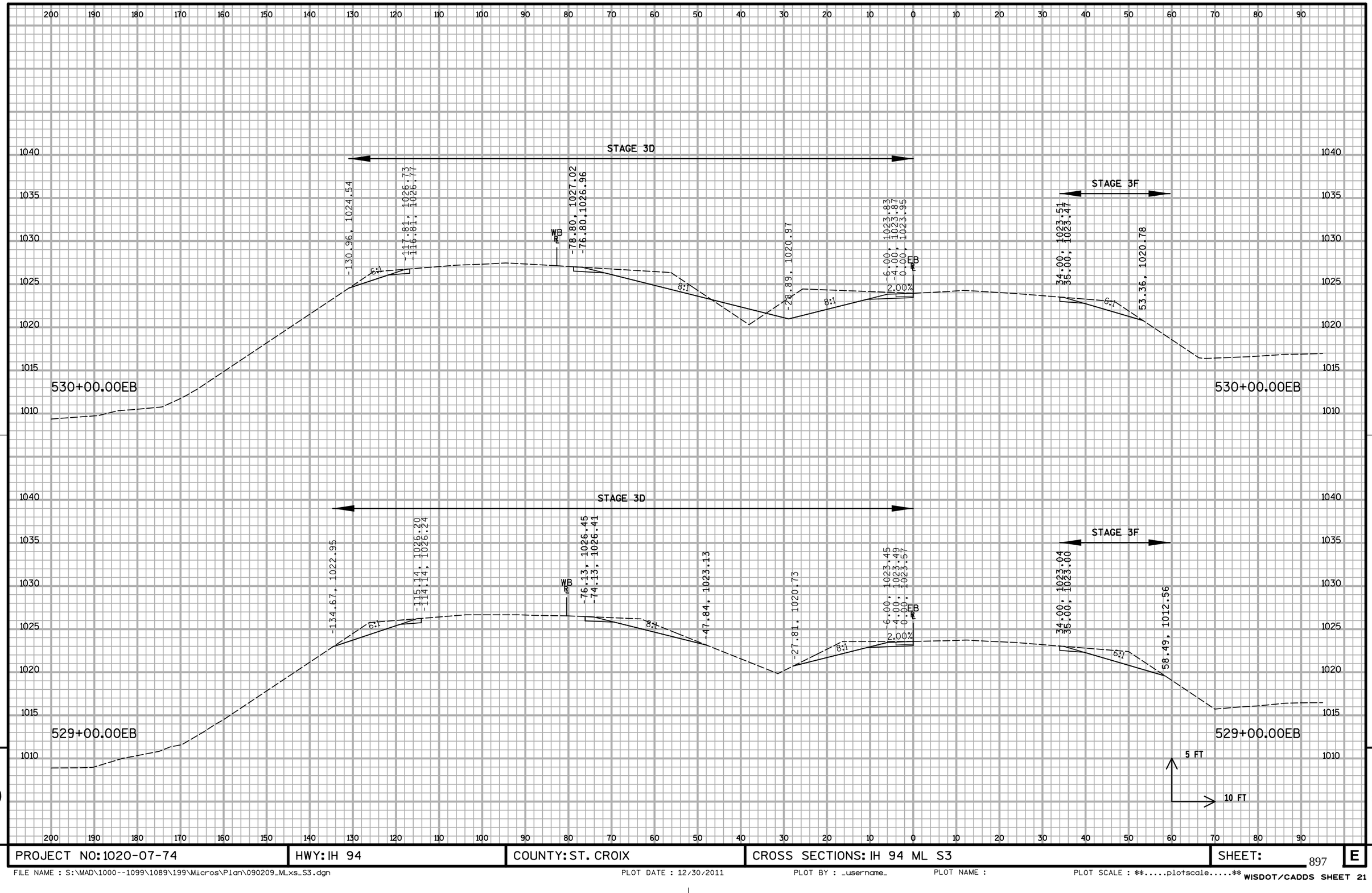
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WISDOT/CADDS SHEET 21



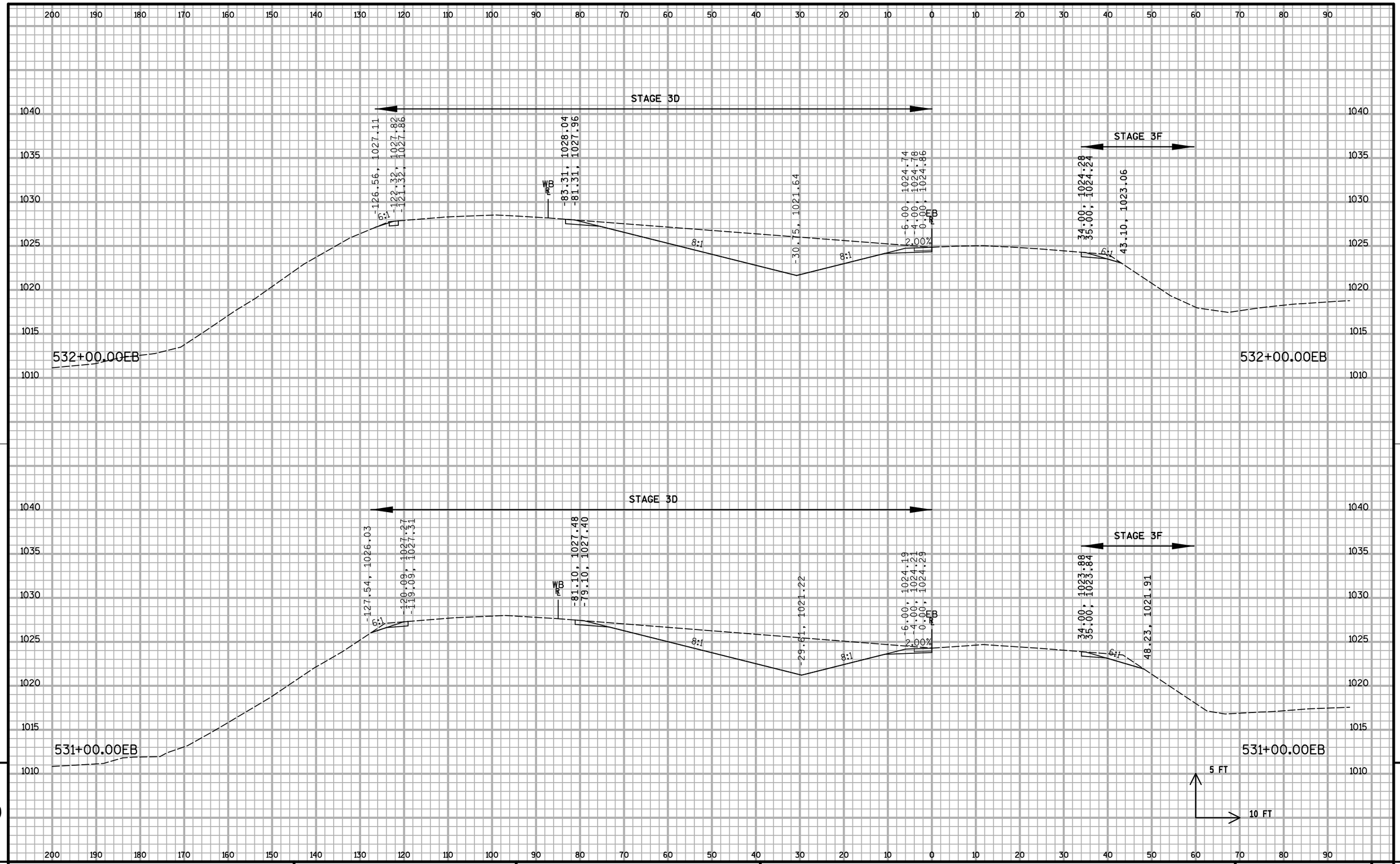
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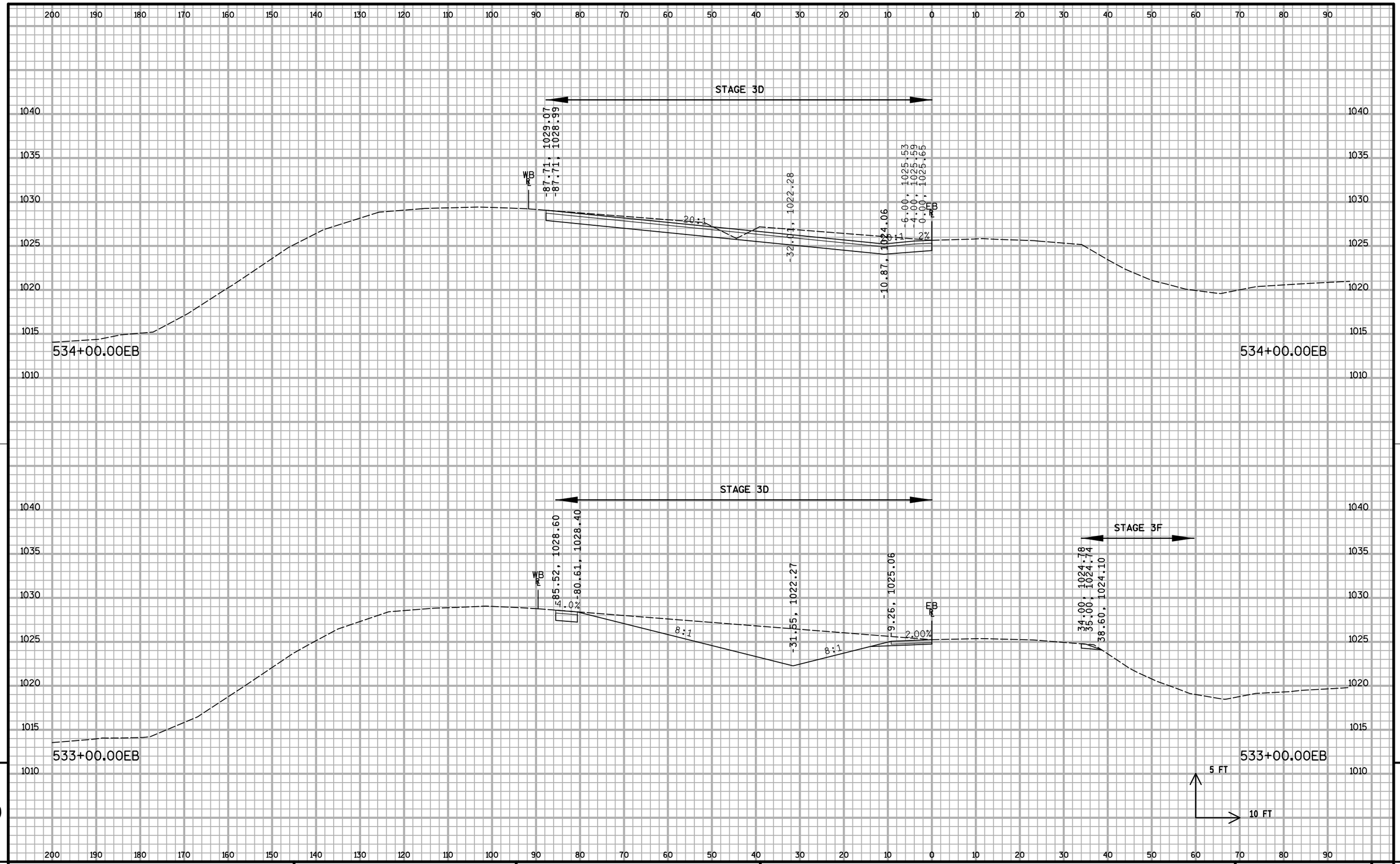
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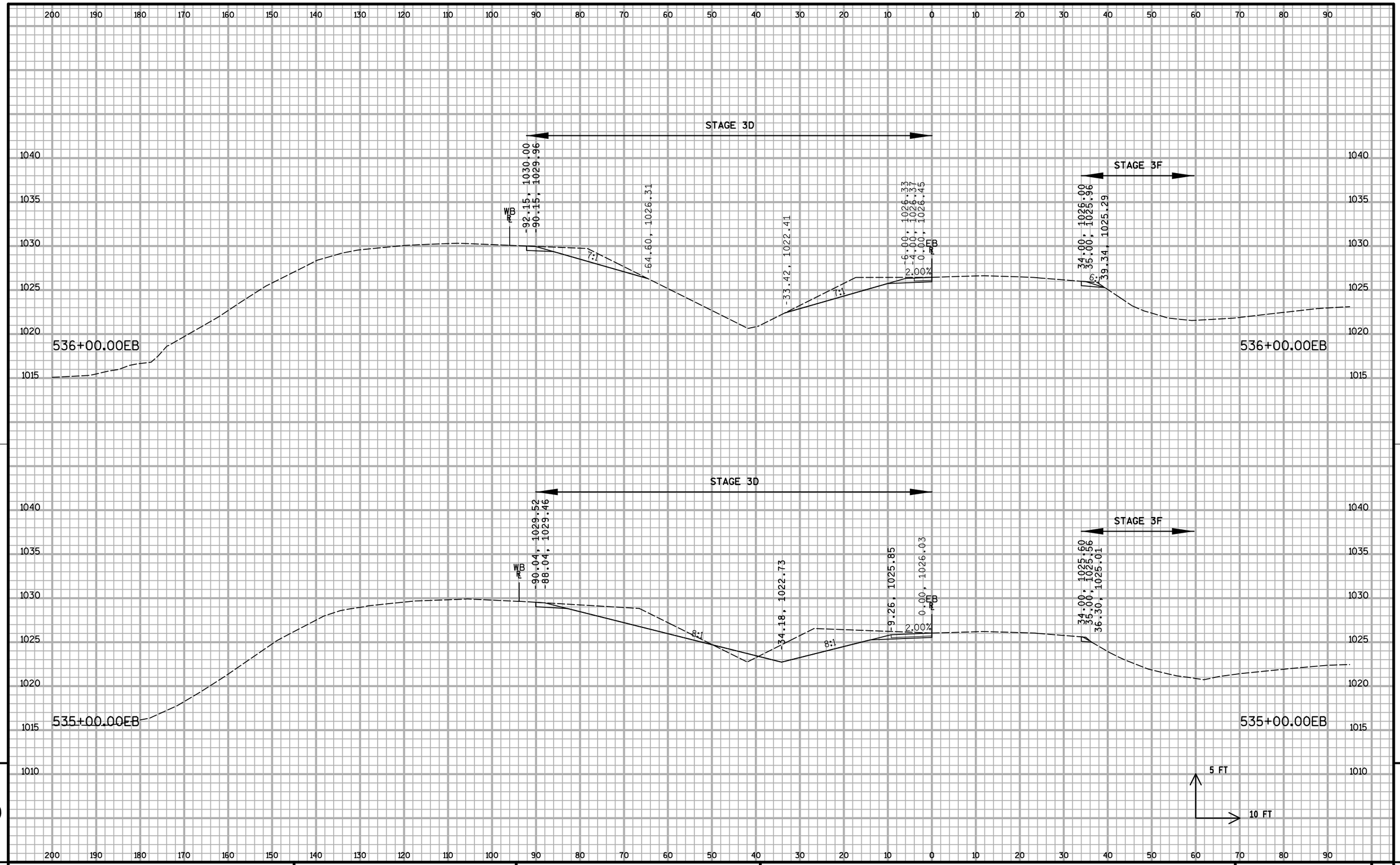
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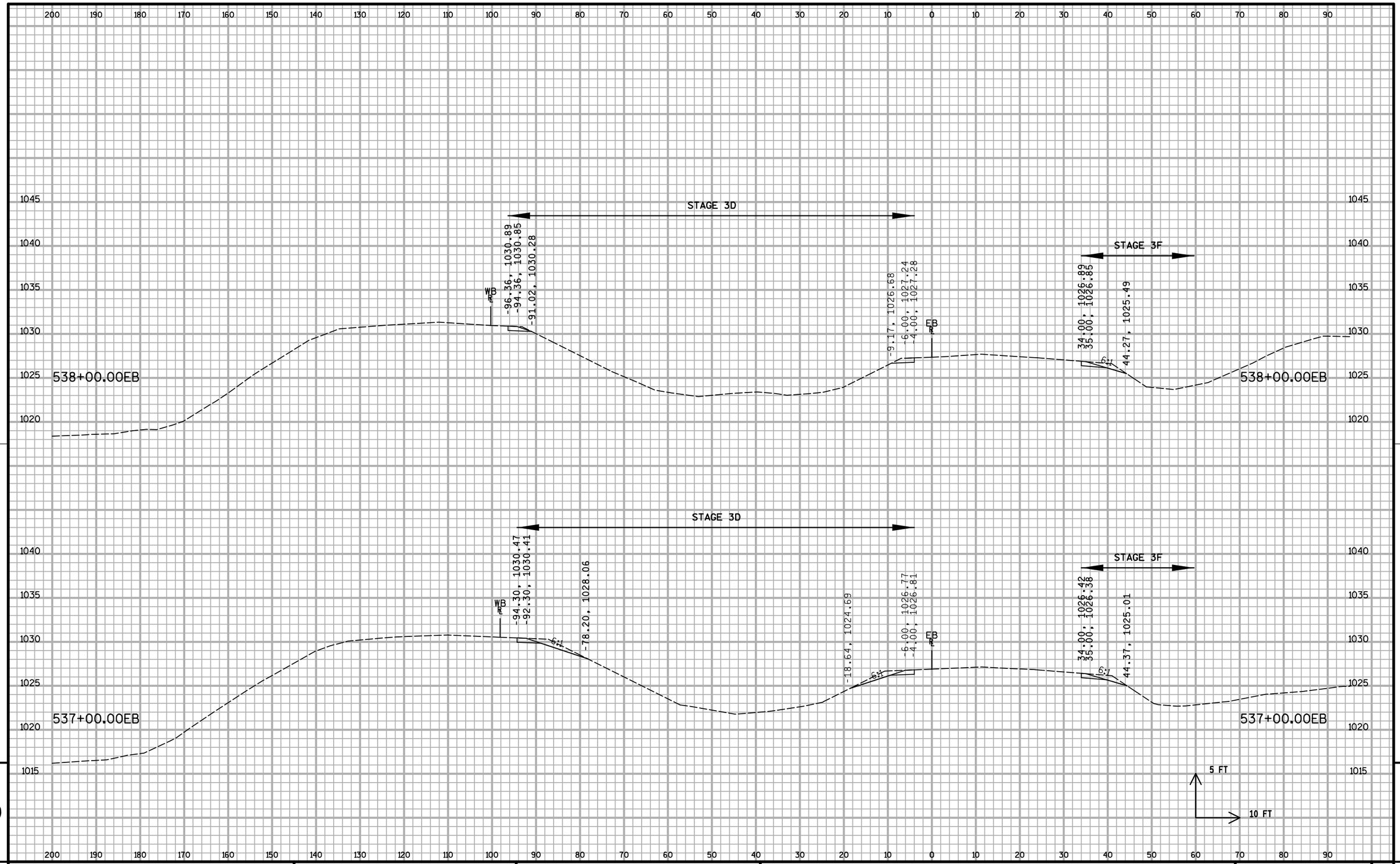
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET:	E

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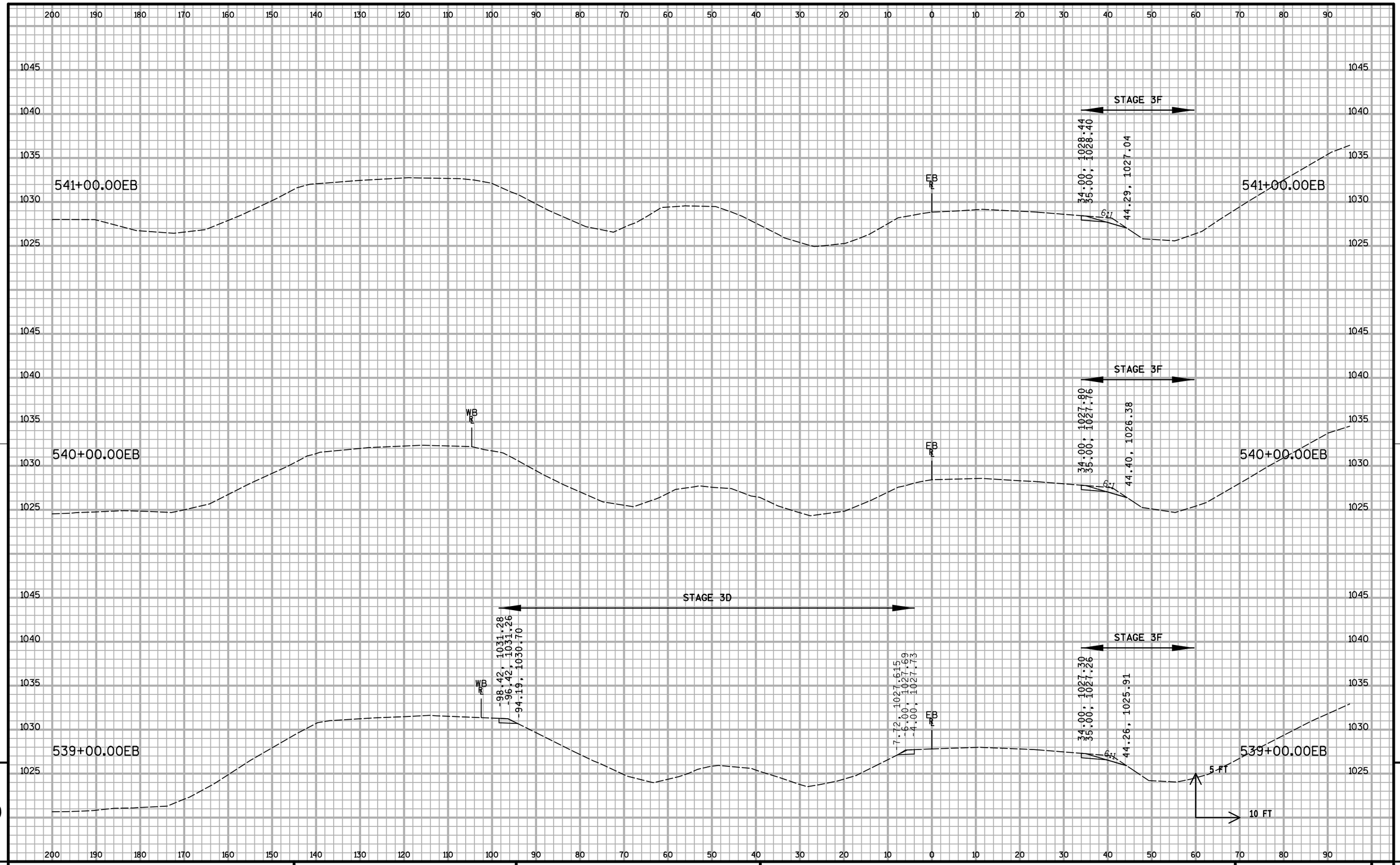


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET:	E

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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET:	E

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200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90

1055
1050
1045
1040
1035
1030

543+00.00EB

EB

STAGE 3F

34.00, 1029.58
35.00, 1029.54

44.74, 1028.06

6:1

543+00.00EB

542+00.00EB

EB

STAGE 3F

34.00, 1028.98
35.00, 1028.94

44.30, 1027.58

6:1

5 FT

10 FT

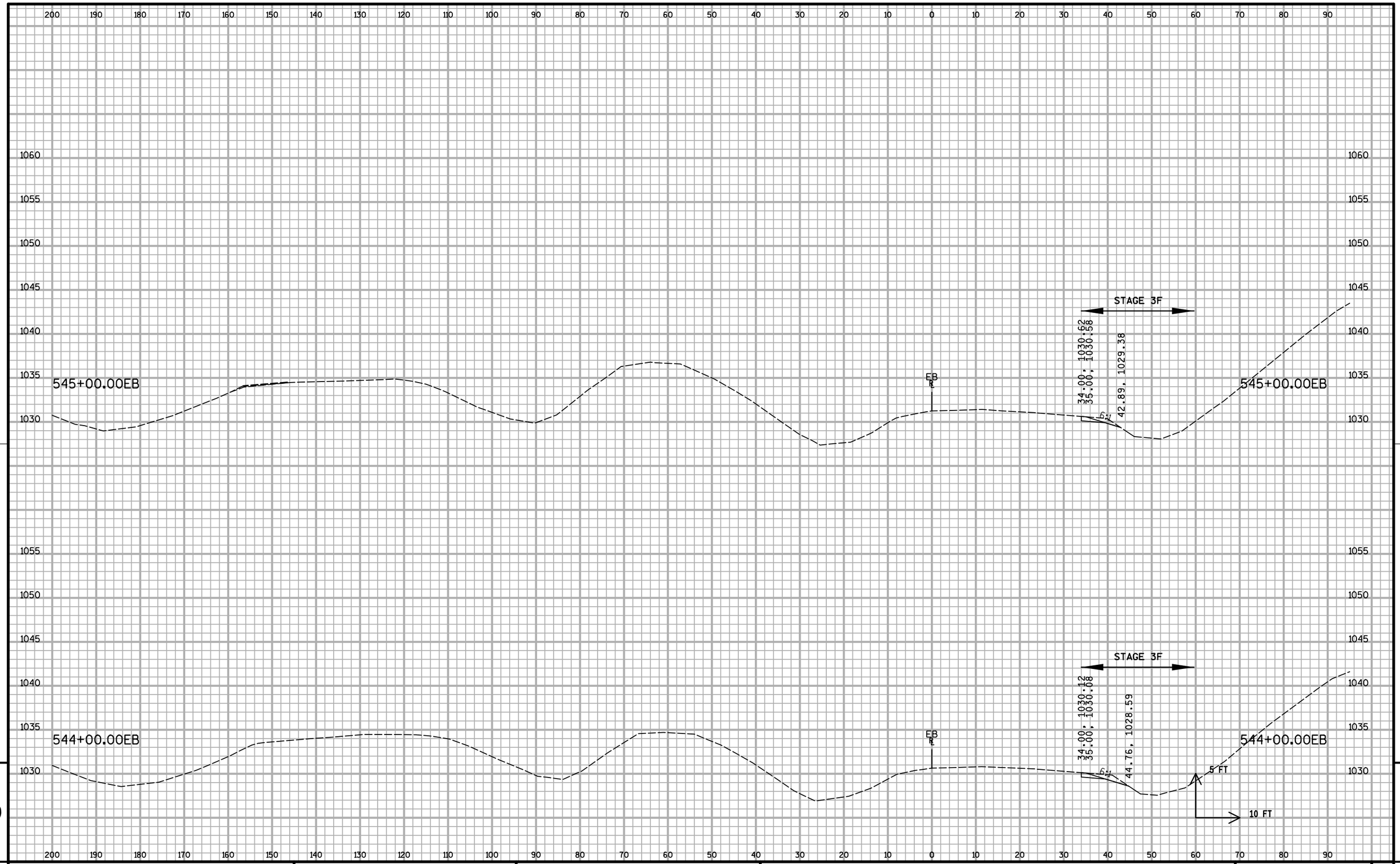
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET:	E

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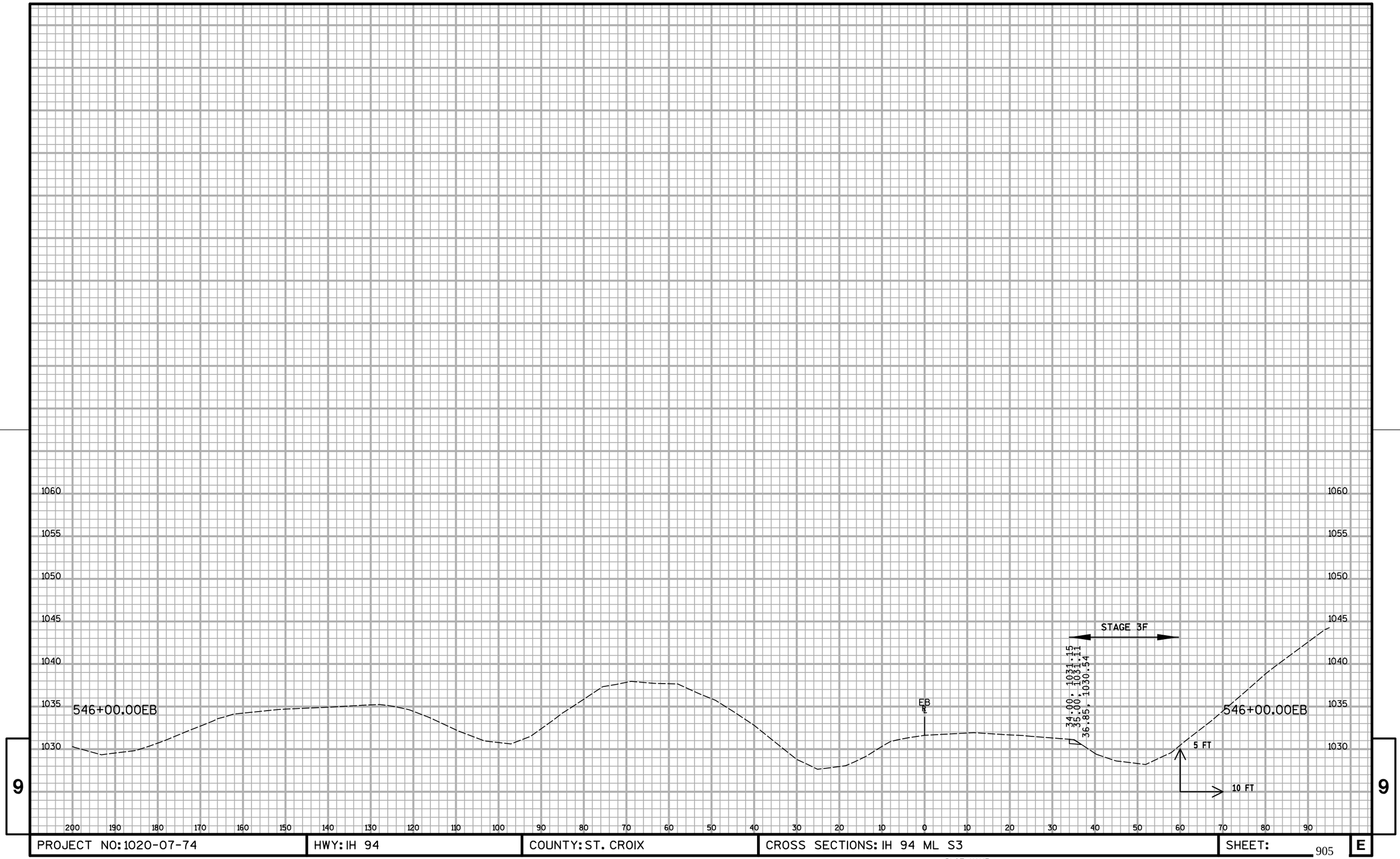


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

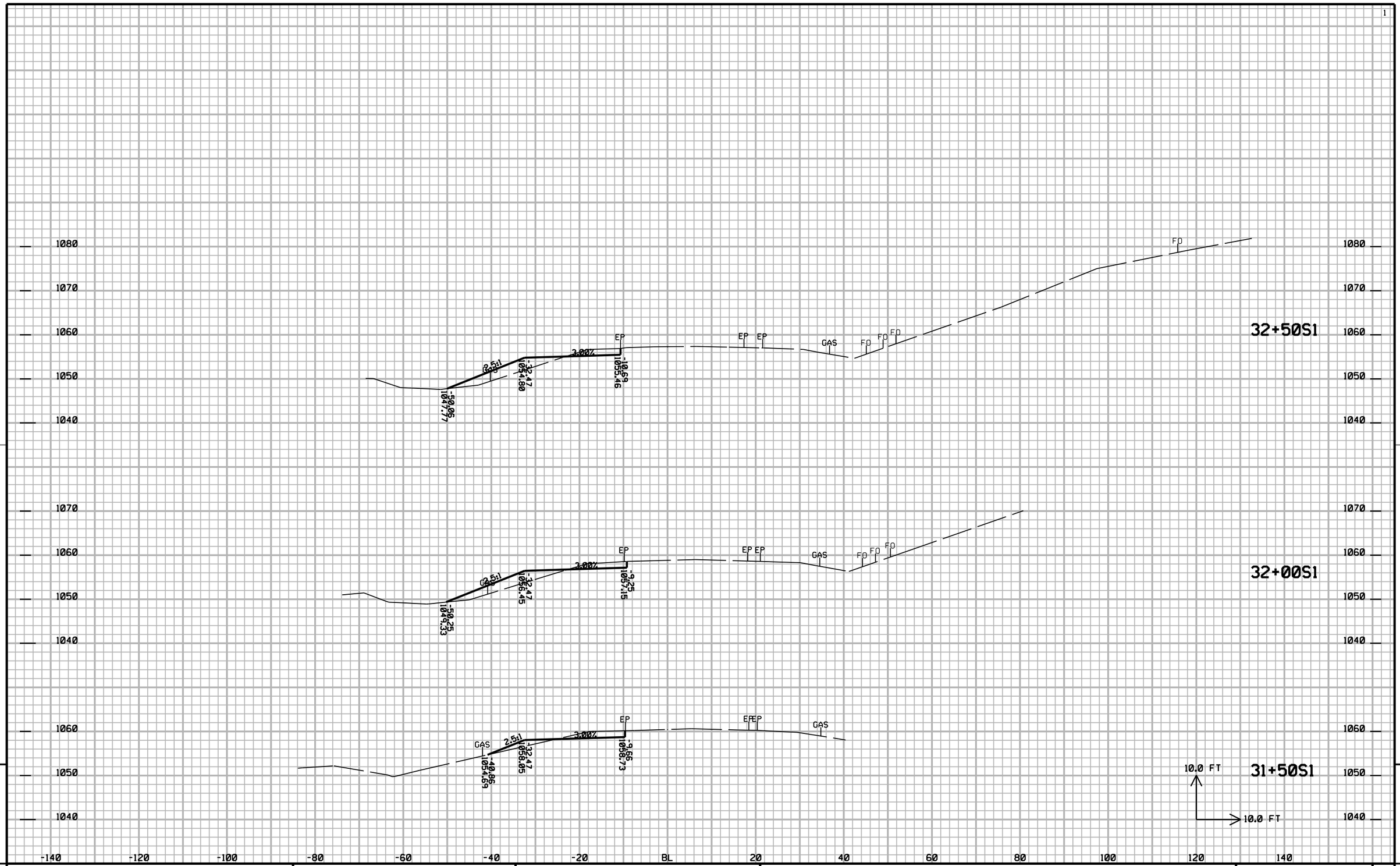


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: IH 94 ML S3	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090209_MLxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

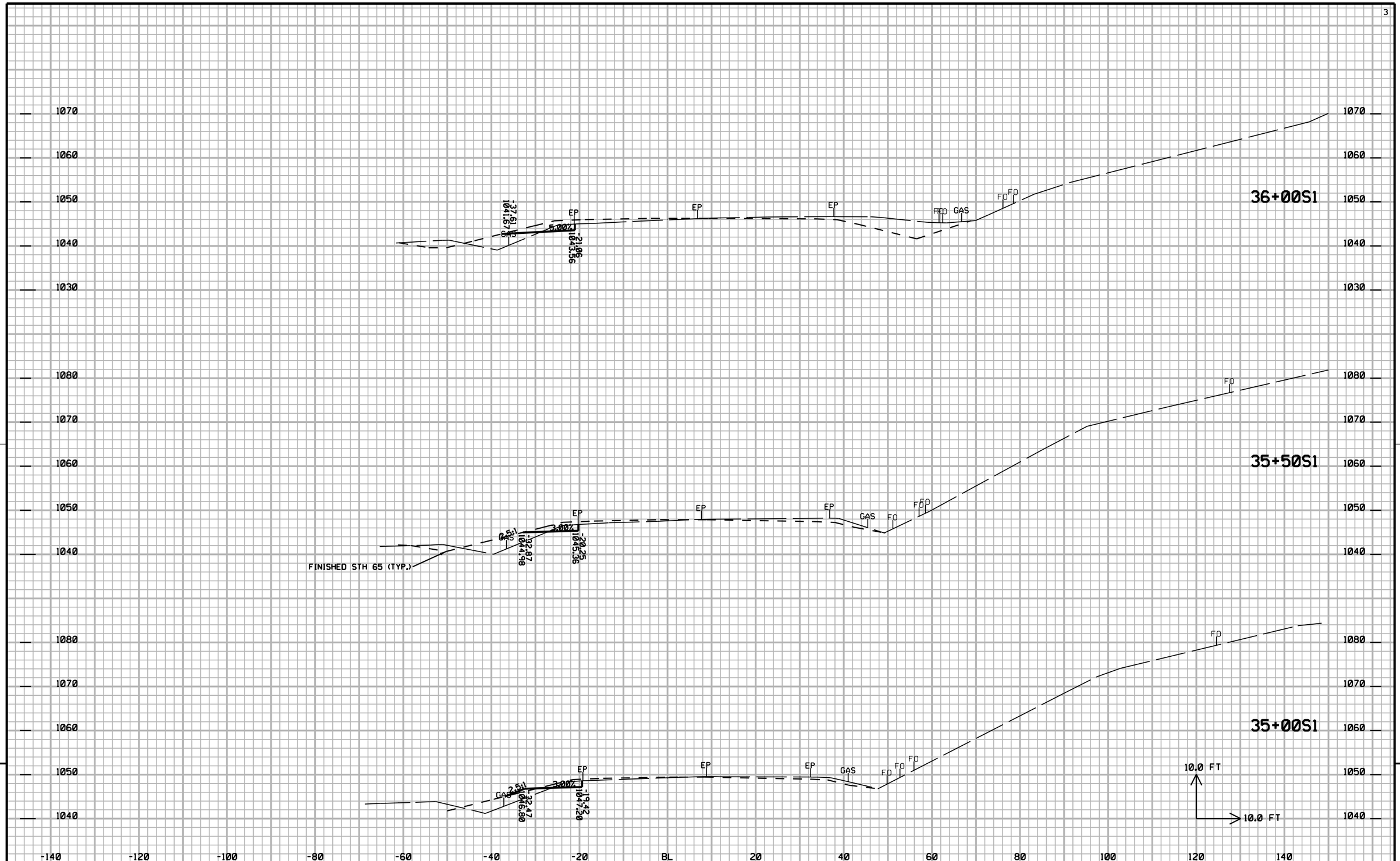


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PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: STH 65 (S1): STAGE 1A: TEMPORARY. WIDENING	SHEET NO: 906	E

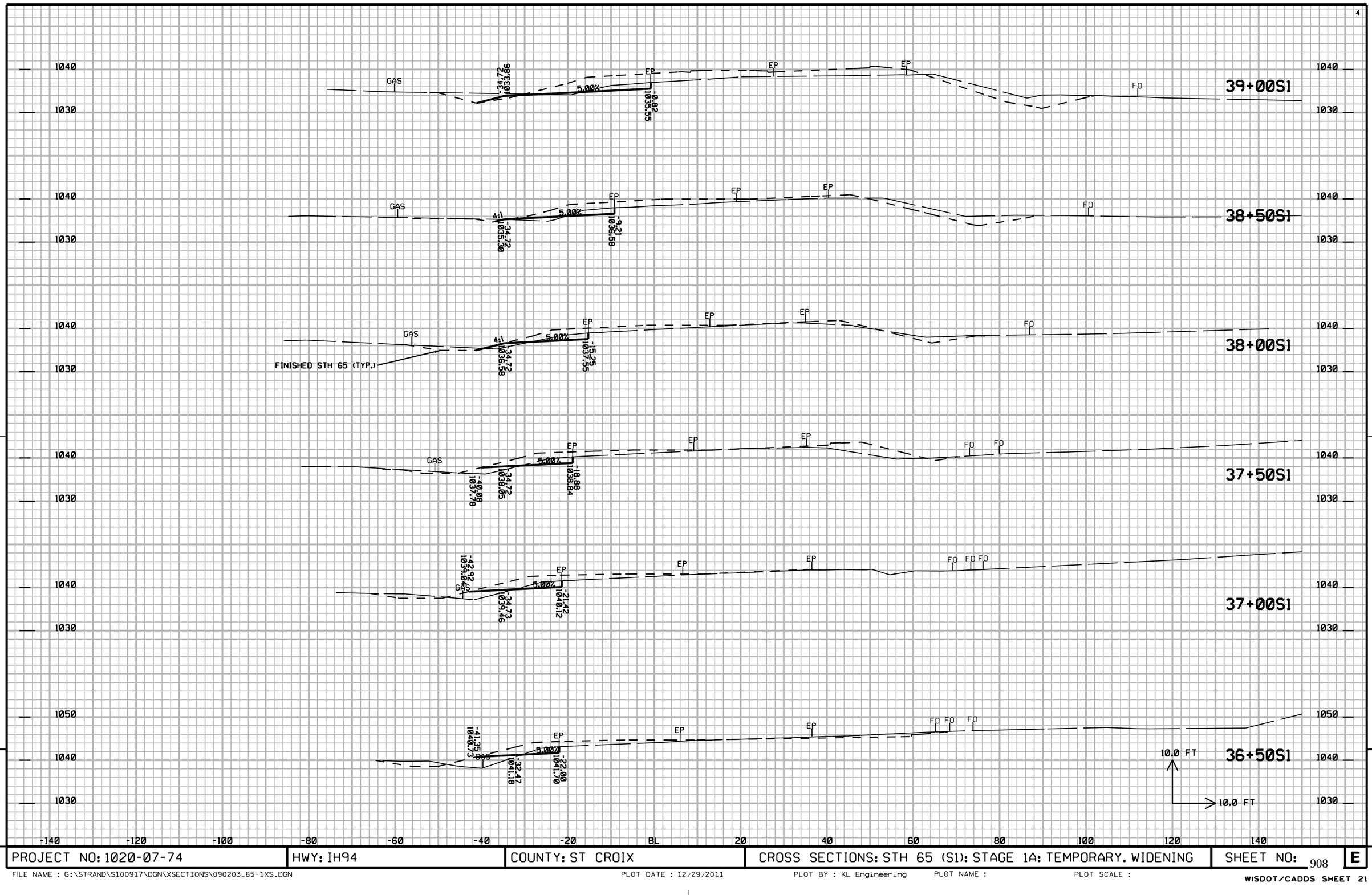
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9

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PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: STH 65 (S1): STAGE 1A: TEMPORARY. WIDENING	SHEET NO: 907	E

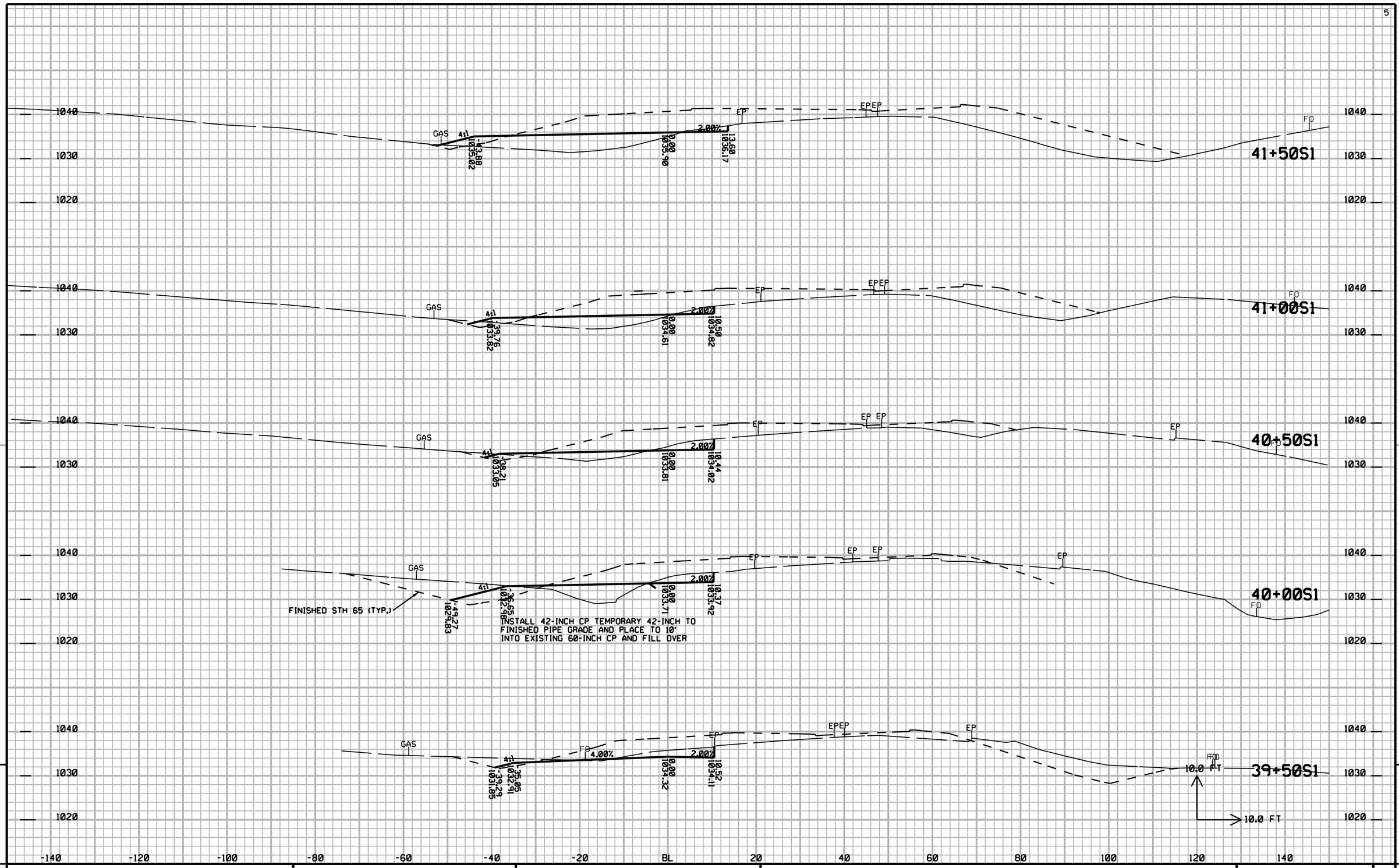


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PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: STH 65 (S1): STAGE 1A: TEMPORARY. WIDENING	SHEET NO: 908	E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090203_65-1XS.DGN PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

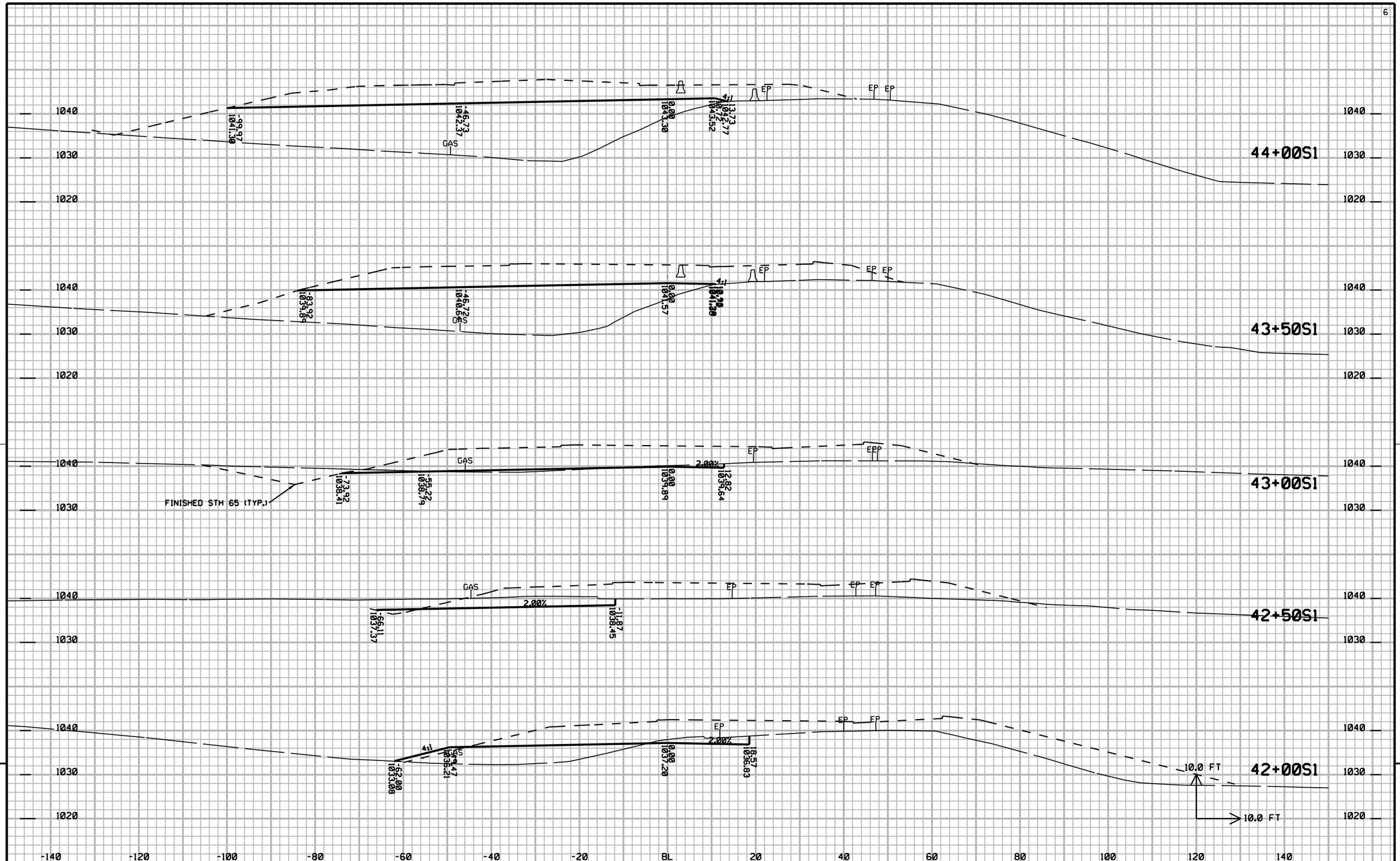
WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: STH 65 (S1): STAGE 1A: TEMPORARY. WIDENING	SHEET NO: 909 E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090203_65-1XS.DGN | PLOT DATE : 12/29/2011 | PLOT BY : KL Engineering | PLOT NAME : | PLOT SCALE :

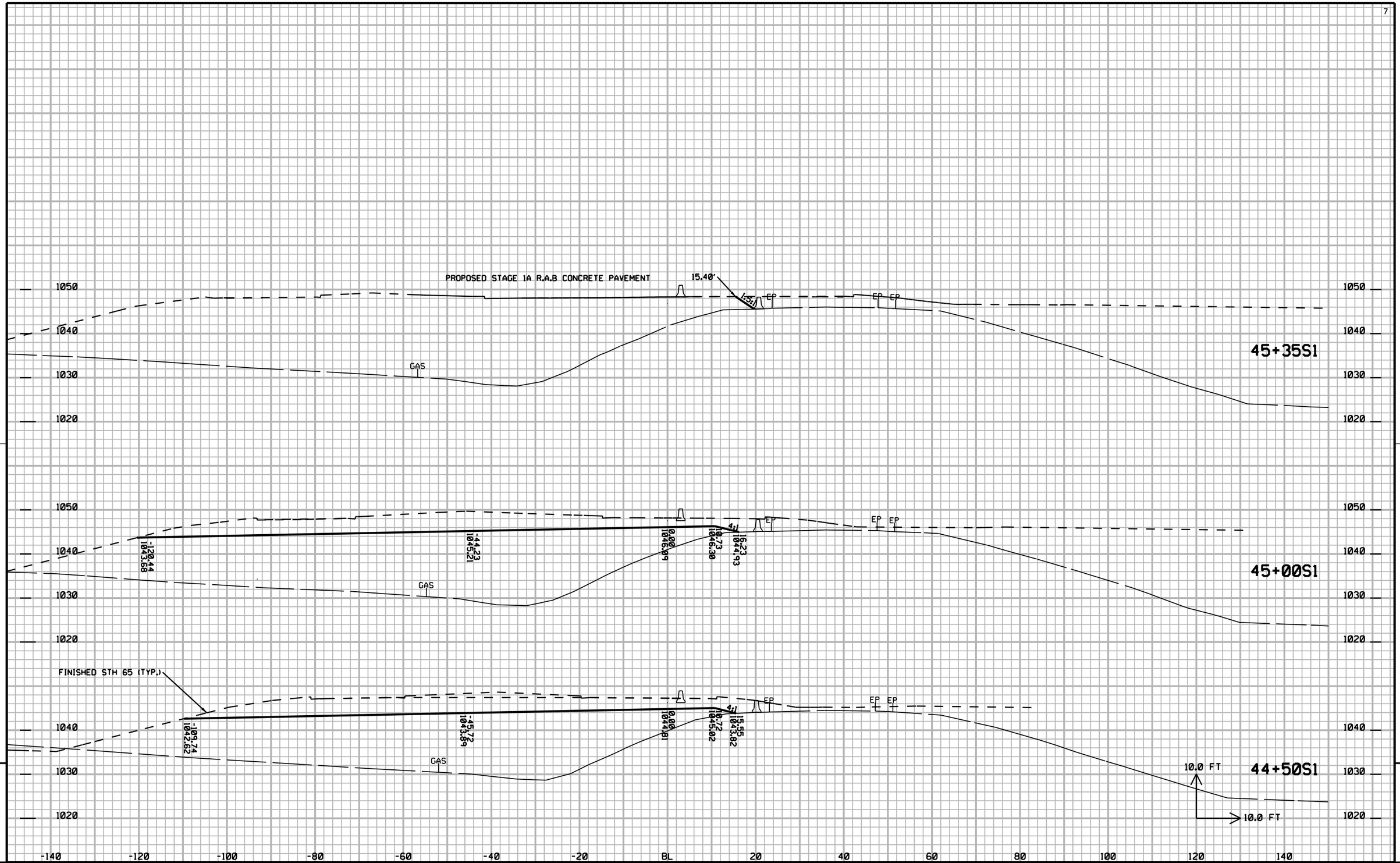
WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: STH 65 (S1): STAGE 1A: TEMPORARY. WIDENING	SHEET NO: 910 E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090203_65-1XS.DGN PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 21



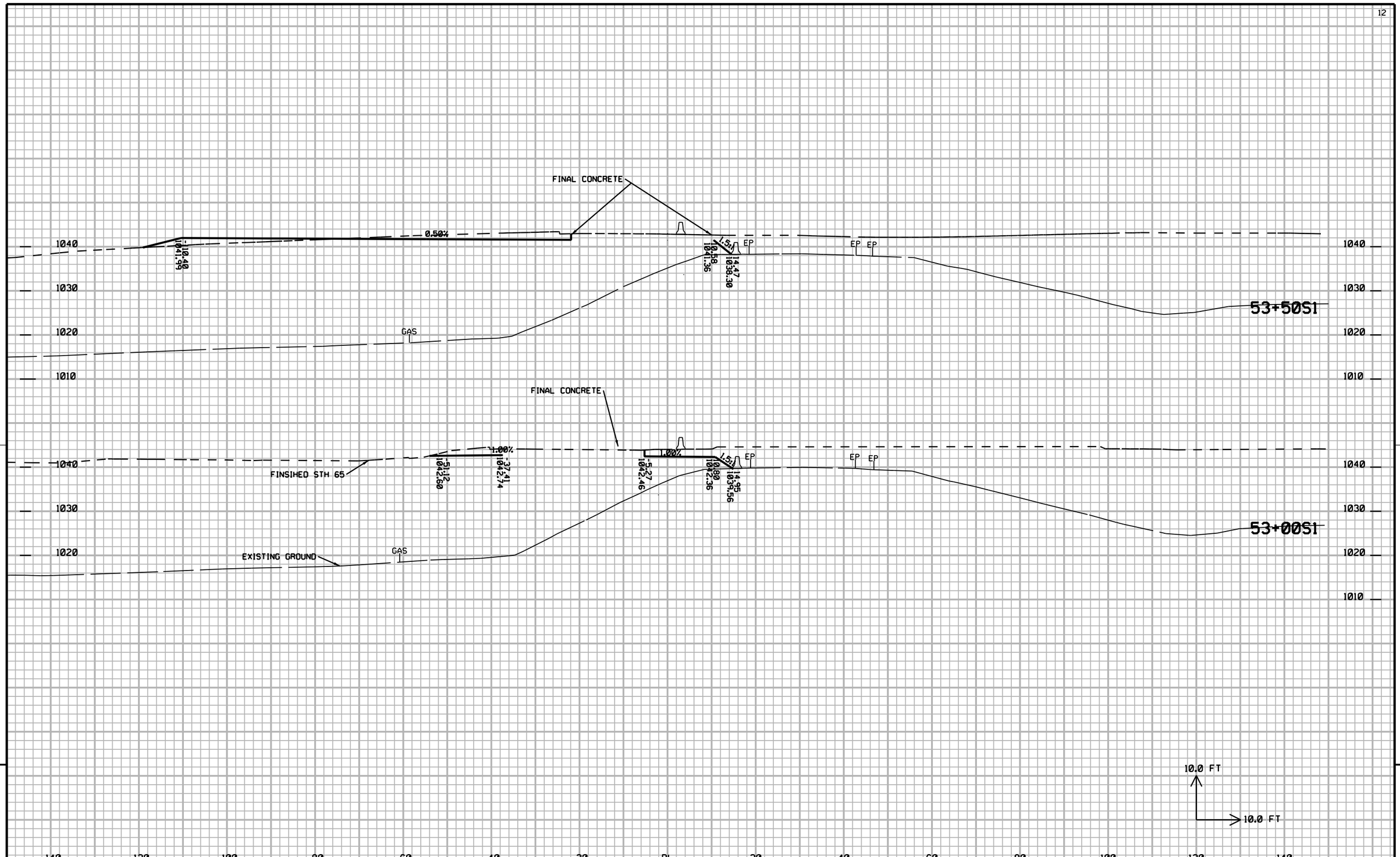
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PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: STH 65 (S1): STAGE 1A: TEMPORARY. WIDENING	SHEET NO: 911	E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090203_65-1XS.DGN PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 21



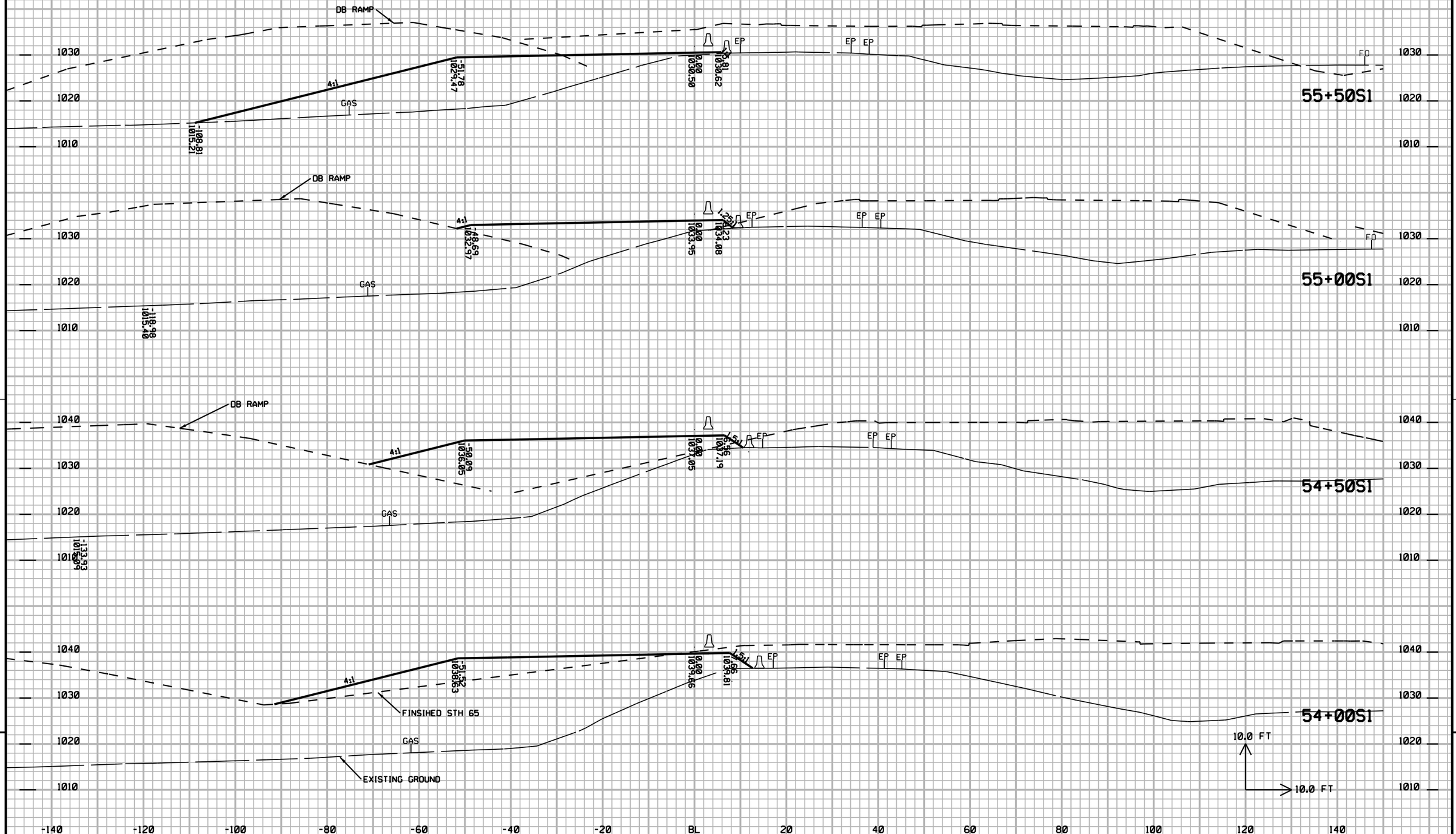
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PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: STH 65 (S1): STAGE 1A: TEMPORARY. WIDENING	SHEET NO: 912	E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090203_65-1XS.DGN PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

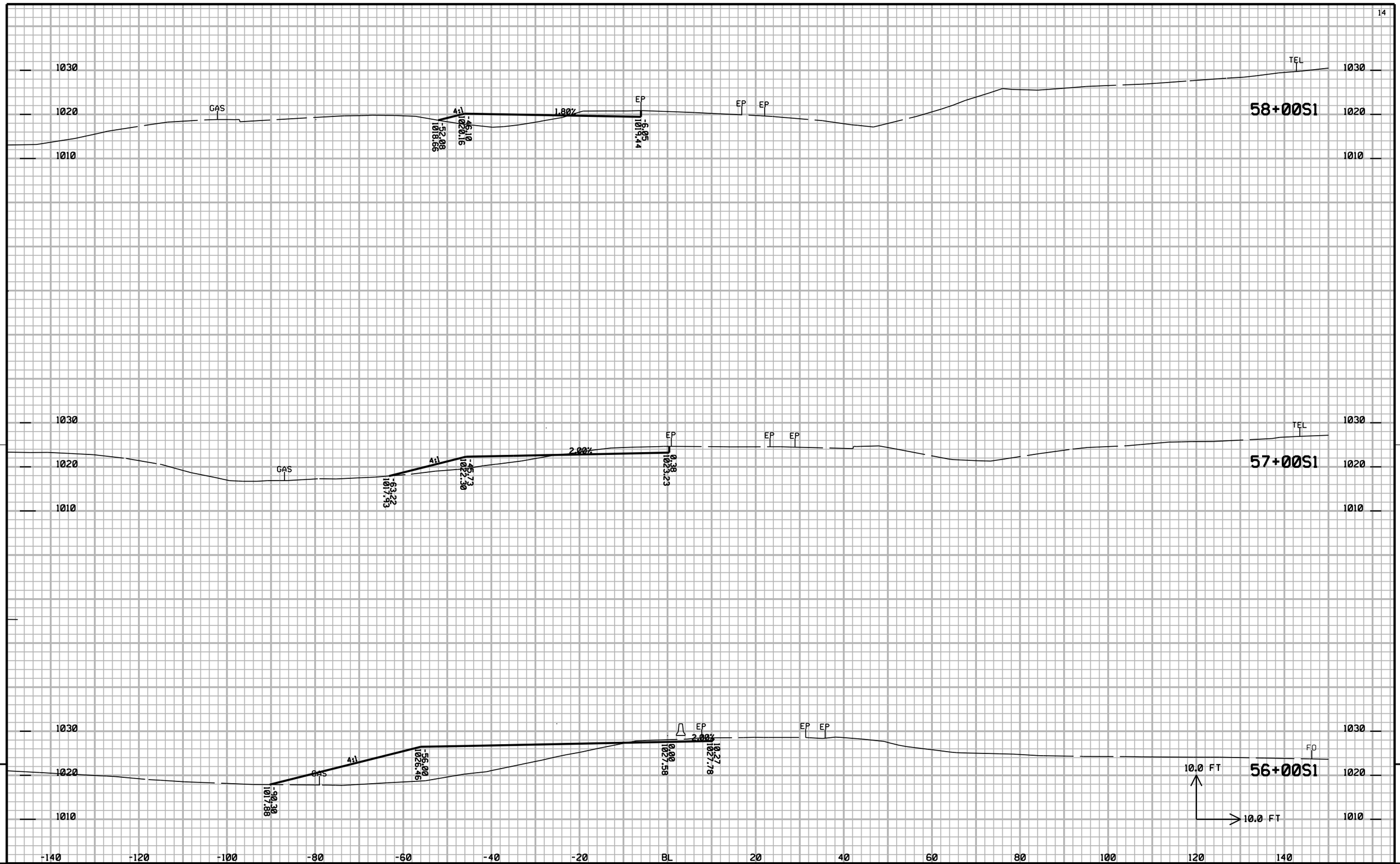
WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: STH 65 (S1): STAGE 1A: TEMPORARY. WIDENING	SHEET NO: 913	E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090203_65-1XS.DGN PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 21



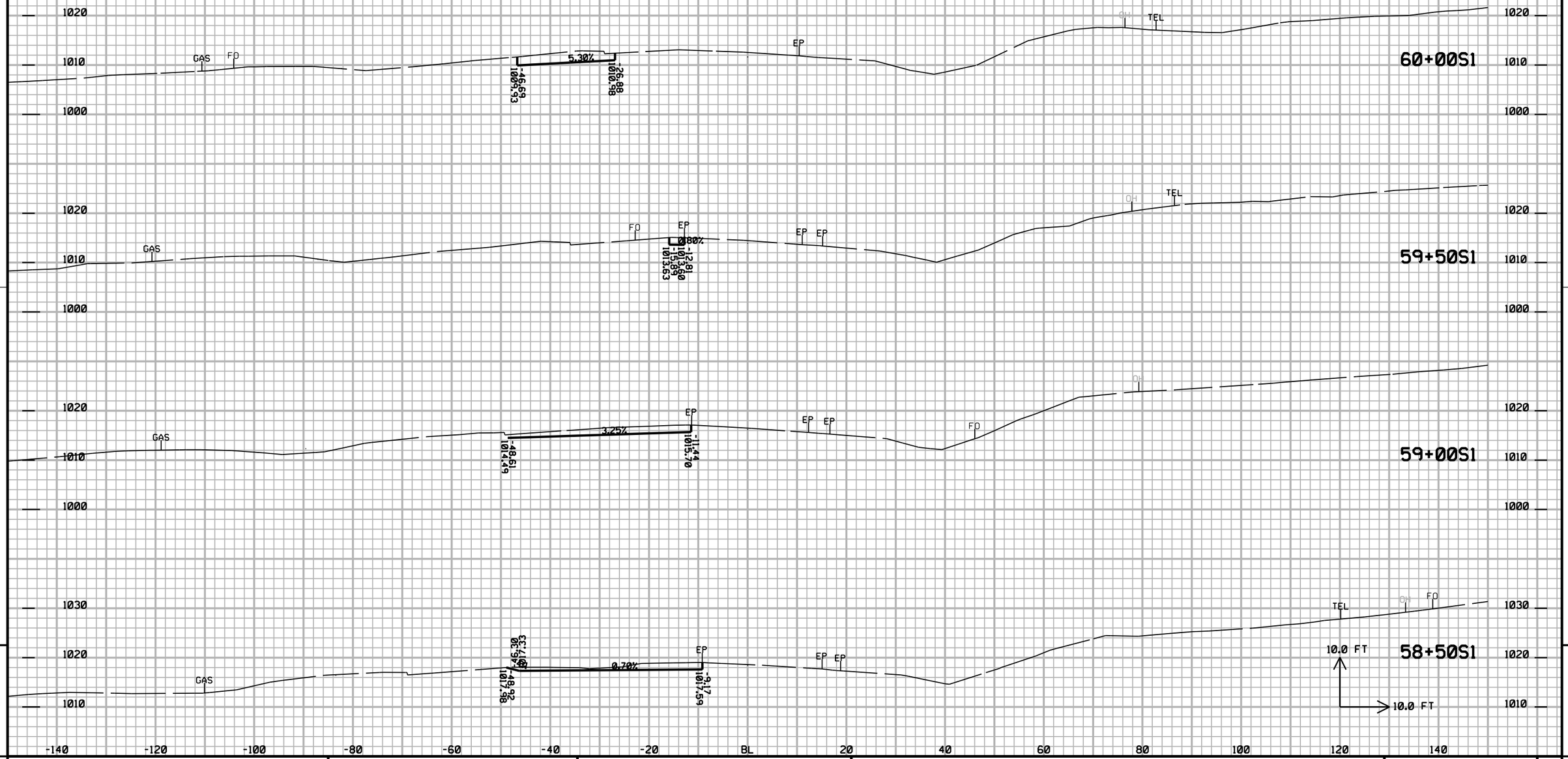
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PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: STH 65 (S1): STAGE 1A: TEMPORARY. WIDENING	SHEET NO: 914	E

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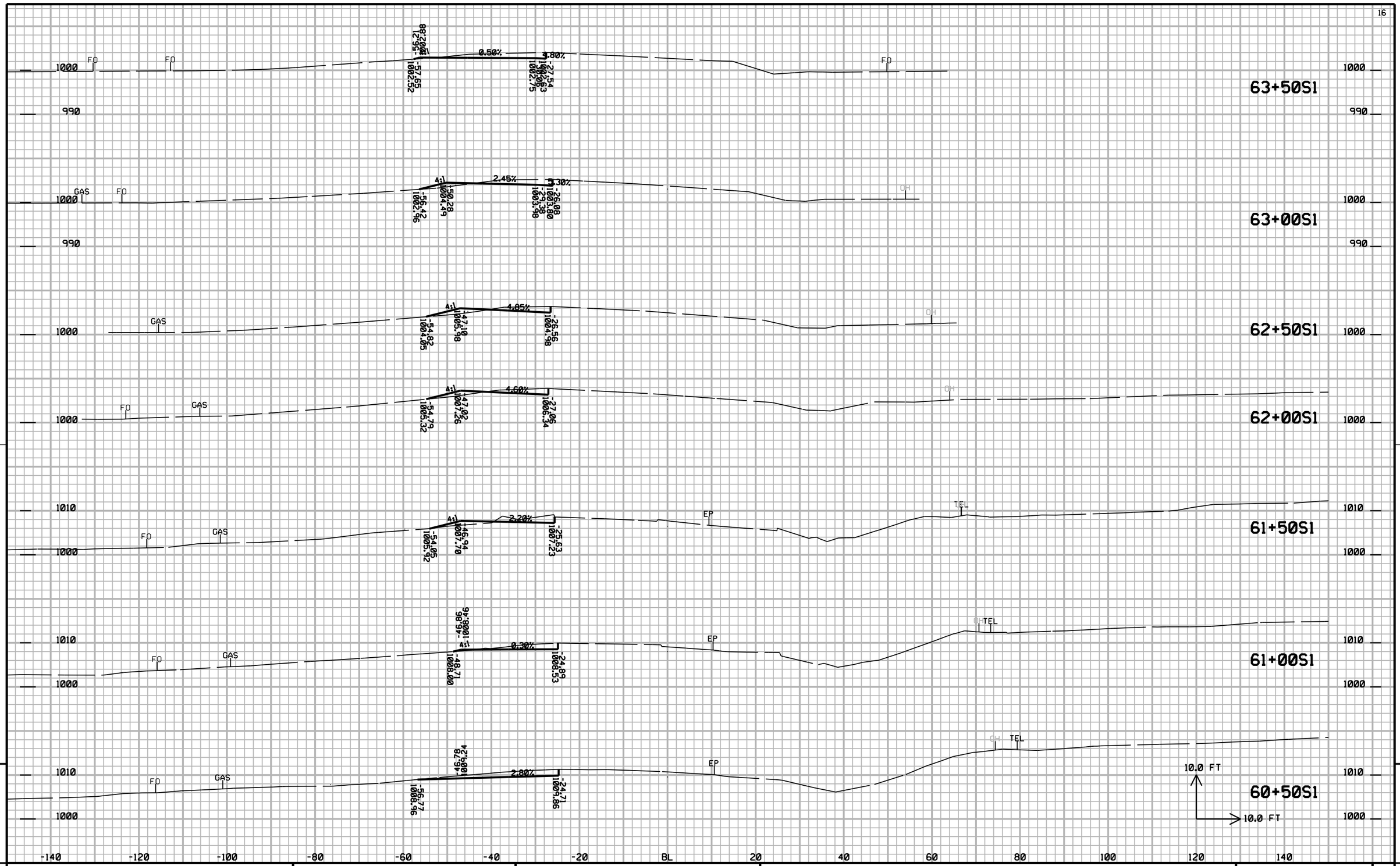
WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: STH 65 (S1): STAGE 1A: TEMPORARY. WIDENING	SHEET NO: 915	E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090203_65-1XS.DGN PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 21

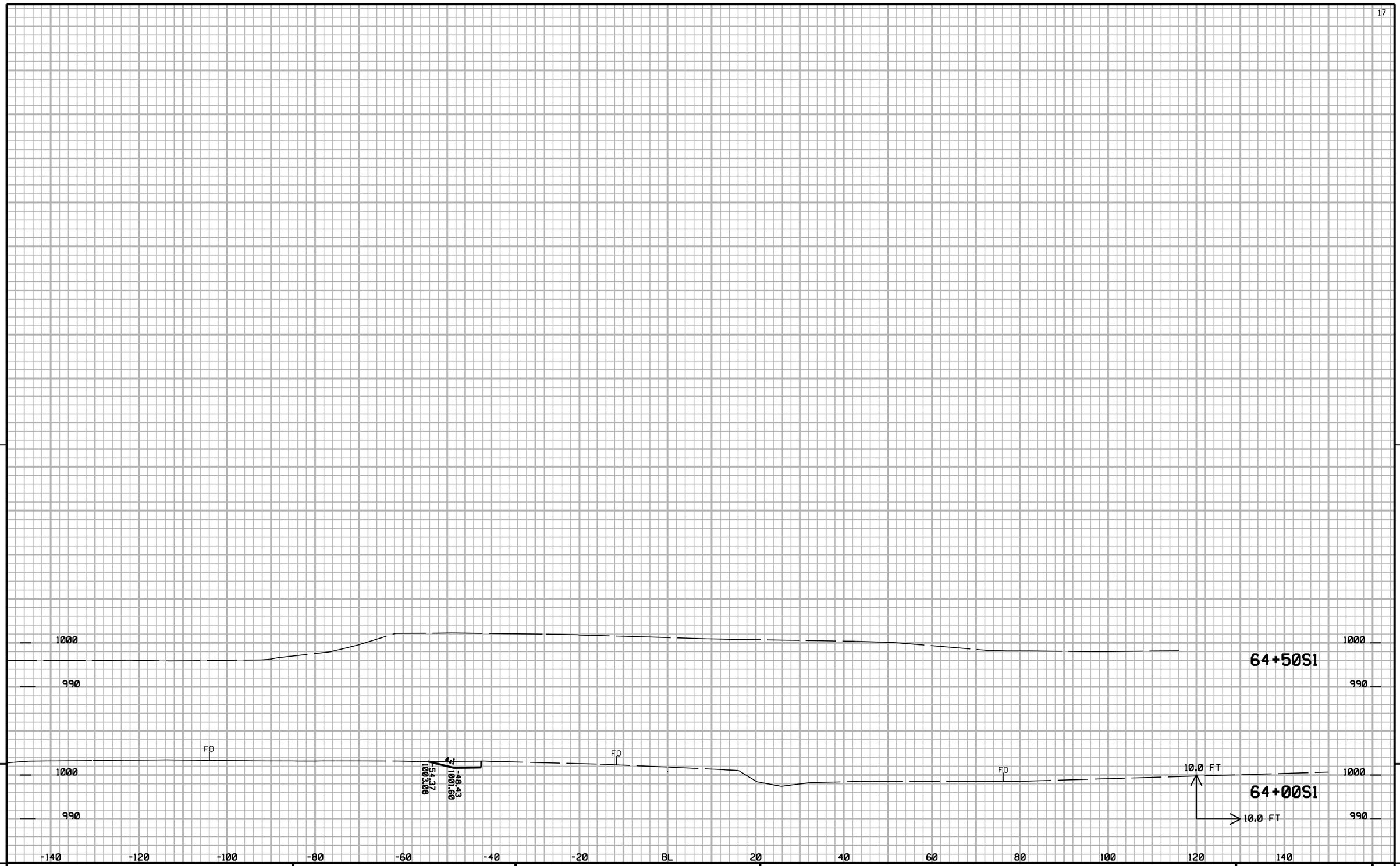


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PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: STH 65 (S1): STAGE 1A: TEMPORARY. WIDENING	SHEET NO: 916	E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090203_65-1XS.DGN
PLOT DATE : 12/29/2011
PLOT BY : KL Engineering
PLOT NAME :
PLOT SCALE :
WISDOT/CADDS SHEET 21



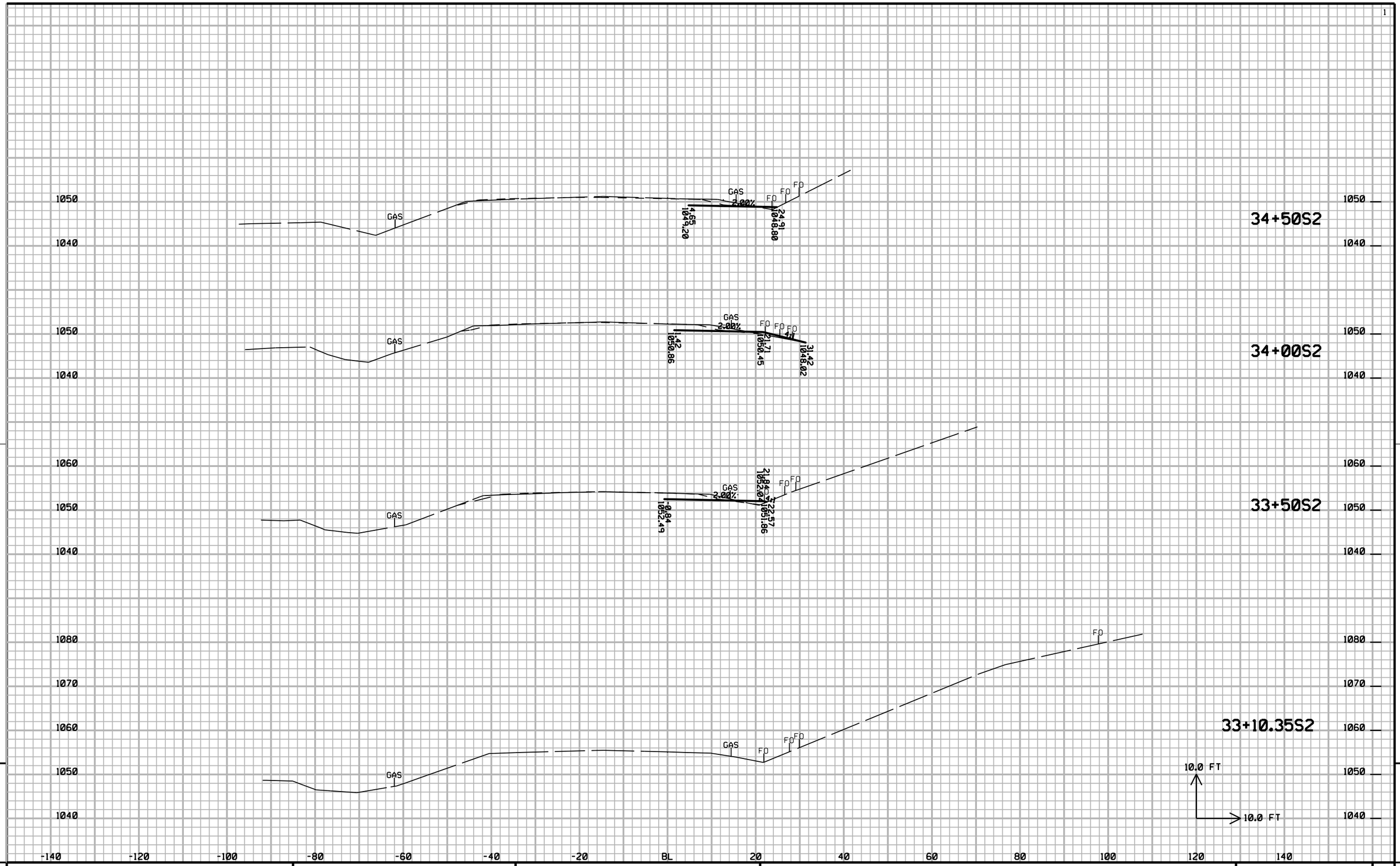
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PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: STH 65 (S1): STAGE 1A: TEMPORARY. WIDENING	SHEET NO: 917	E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090203_65-1XS.DGN PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 21

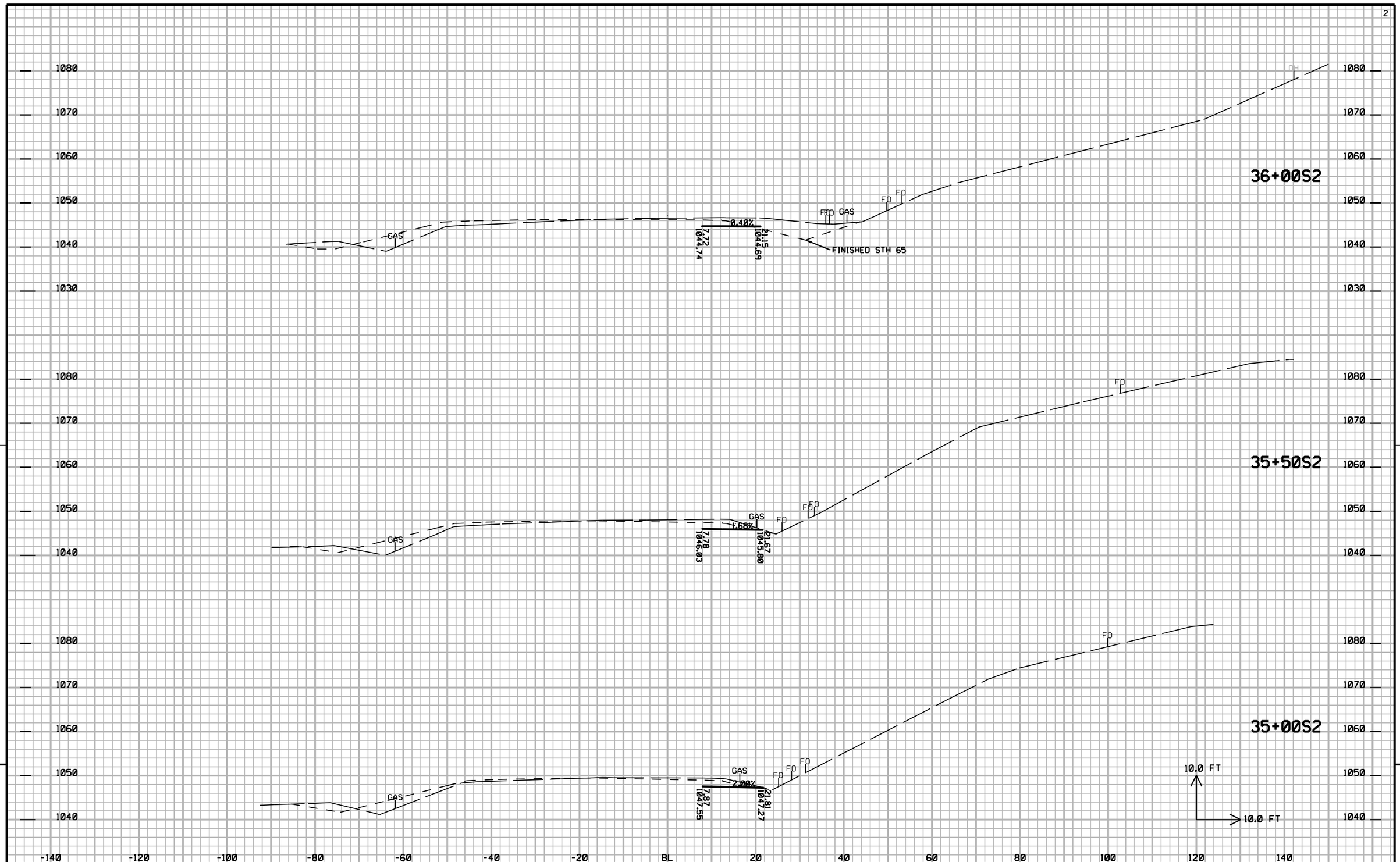


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PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: STH 65 (S2): STAGE 2B: TEMP. WIDENING	SHEET NO: 918	E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090204_65-2XS.DGN PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 21



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PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: STH 65 (S2): STAGE 2B: TEMP. WIDENING	SHEET NO: 919	E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090204_65-2XS.DGN PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 21

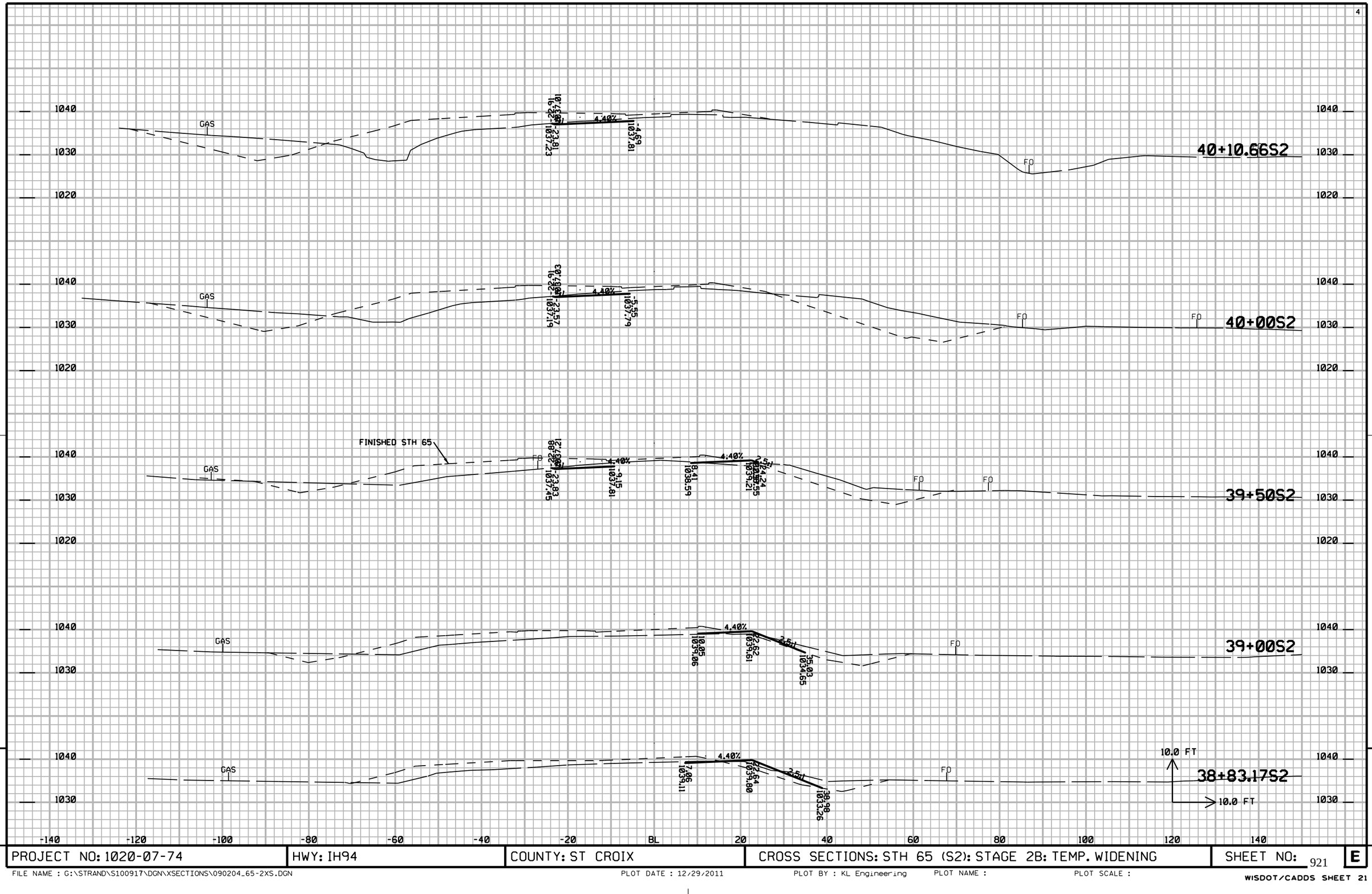


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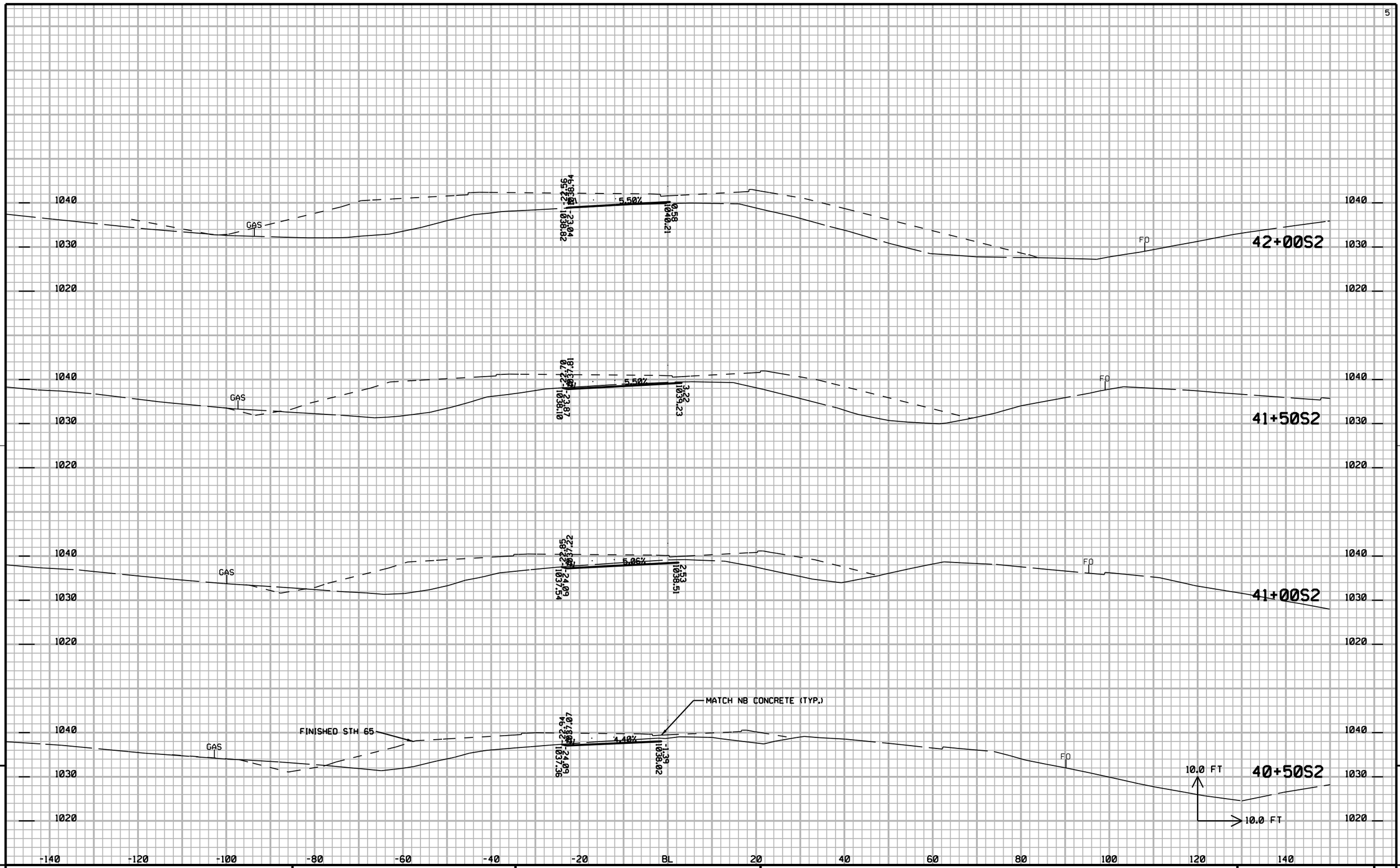
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PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: STH 65 (S2): STAGE 2B: TEMP. WIDENING	SHEET NO: 920	E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090204_65-2XS.DGN
PLOT DATE : 12/29/2011
PLOT BY : KL Engineering
PLOT NAME :
PLOT SCALE :
WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: STH 65 (S2): STAGE 2B: TEMP. WIDENING	SHEET NO: 921	E



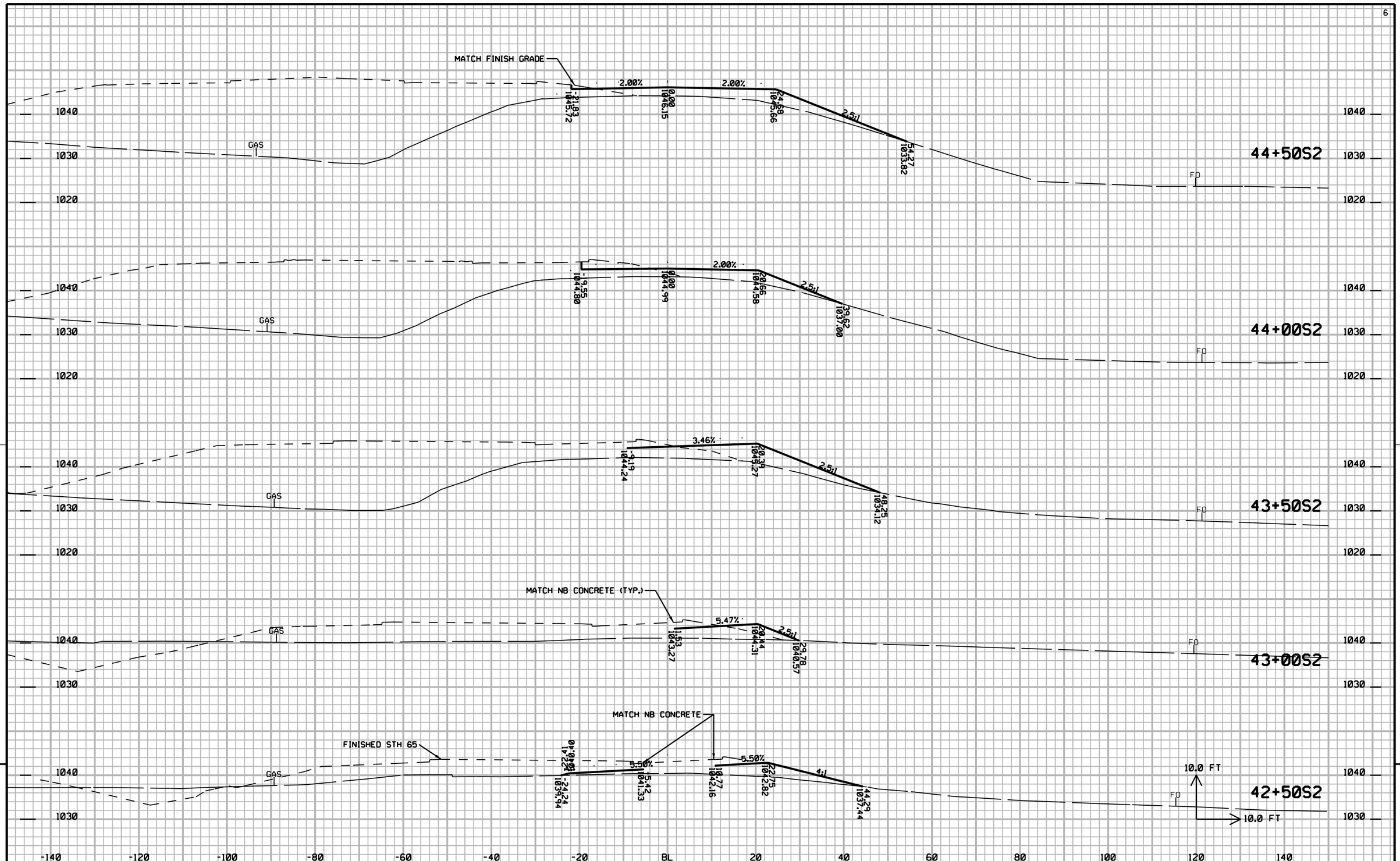
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PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: STH 65 (S2): STAGE 2B: TEMP. WIDENING	SHEET NO: 922	E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090204_65-2XS.DGN PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: STH 65 (S2): STAGE 2B: TEMP. WIDENING	SHEET NO: 923 E

59+50S2

45+50S2

45+00S2

1050
1040
1030
1020
1010

TEL
UH
FO
GAS
2.90%
4:1
9.39
1017.16
22.72
1016.78
31.08
1014.69
2.00%
1.89
1046.97
32.54
1042.36
2.5:1
81.59
1026.74
FINISHED STH 65
MATCH NB CONCRETE (TYP.)
1.62%
25.79
1046.38
28.59
1045.50
56.10
1034.54
10.0 FT

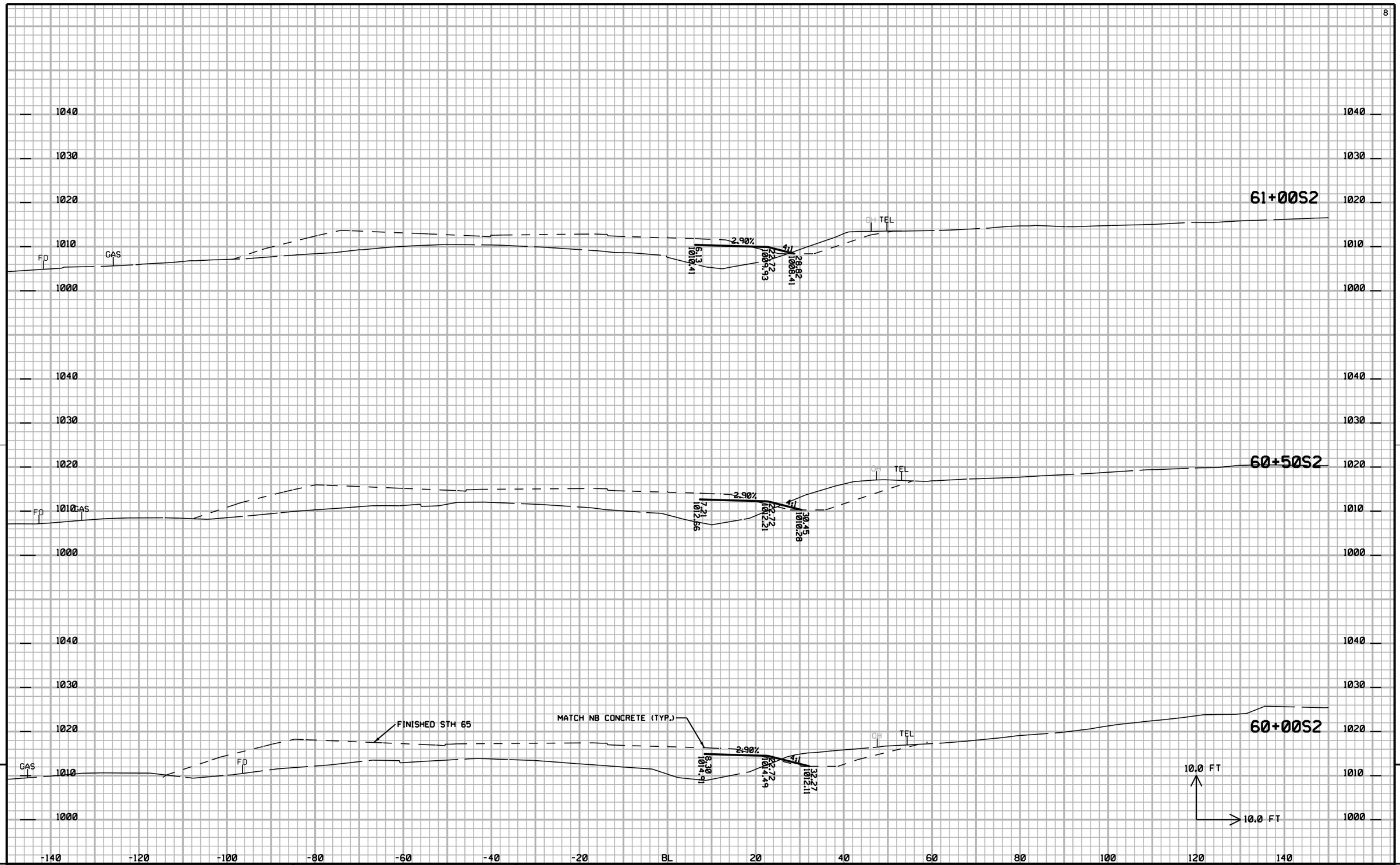
-140 -120 -100 -80 -60 -40 -20 BL 20 40 60 80 100 120 140

9

PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: STH 65 (S2): STAGE 2B: TEMP. WIDENING	SHEET NO: 924	E

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WISDOT/CADDS SHEET 21



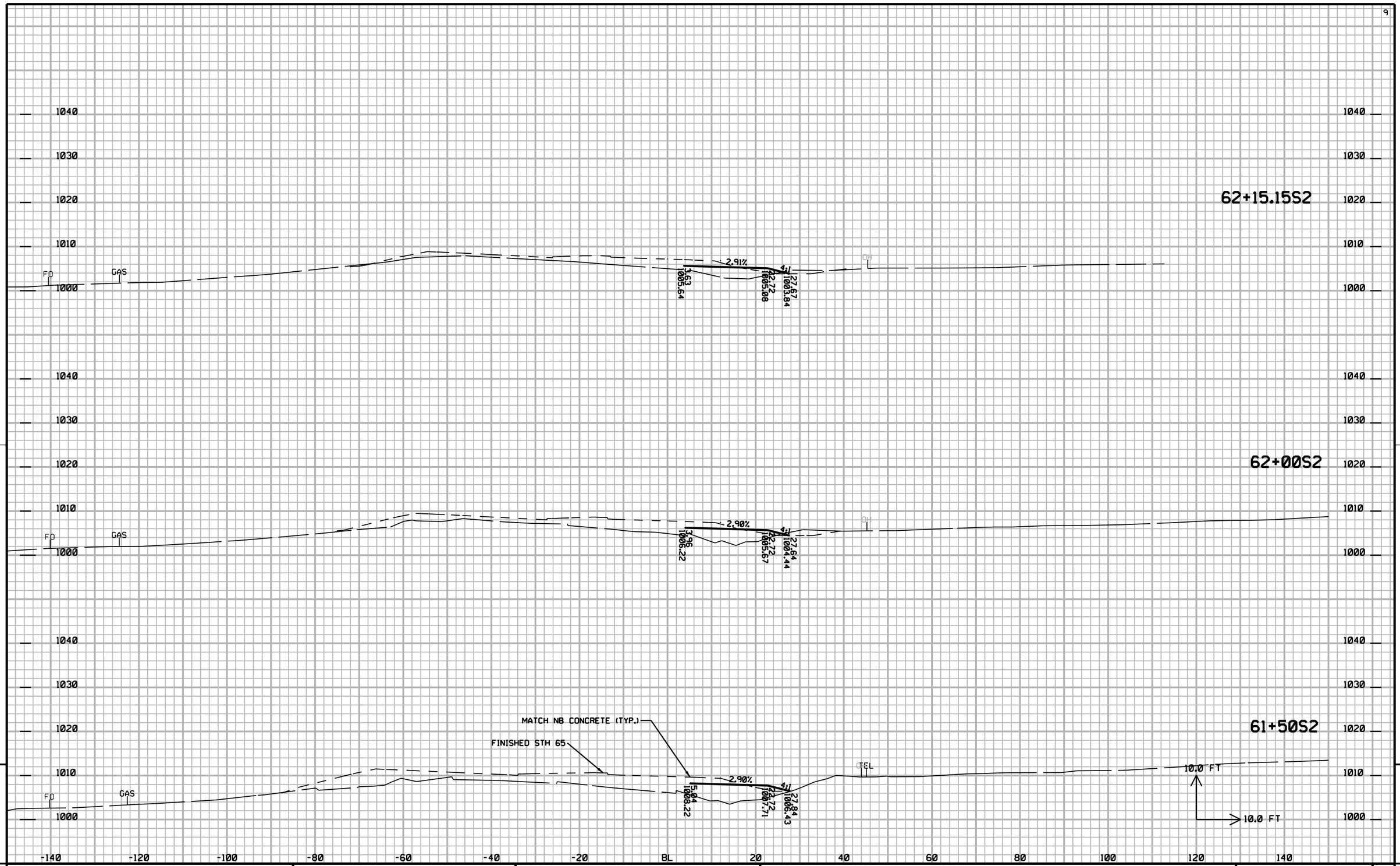
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PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: STH 65 (S2): STAGE 2B: TEMP. WIDENING	SHEET NO: 925	E

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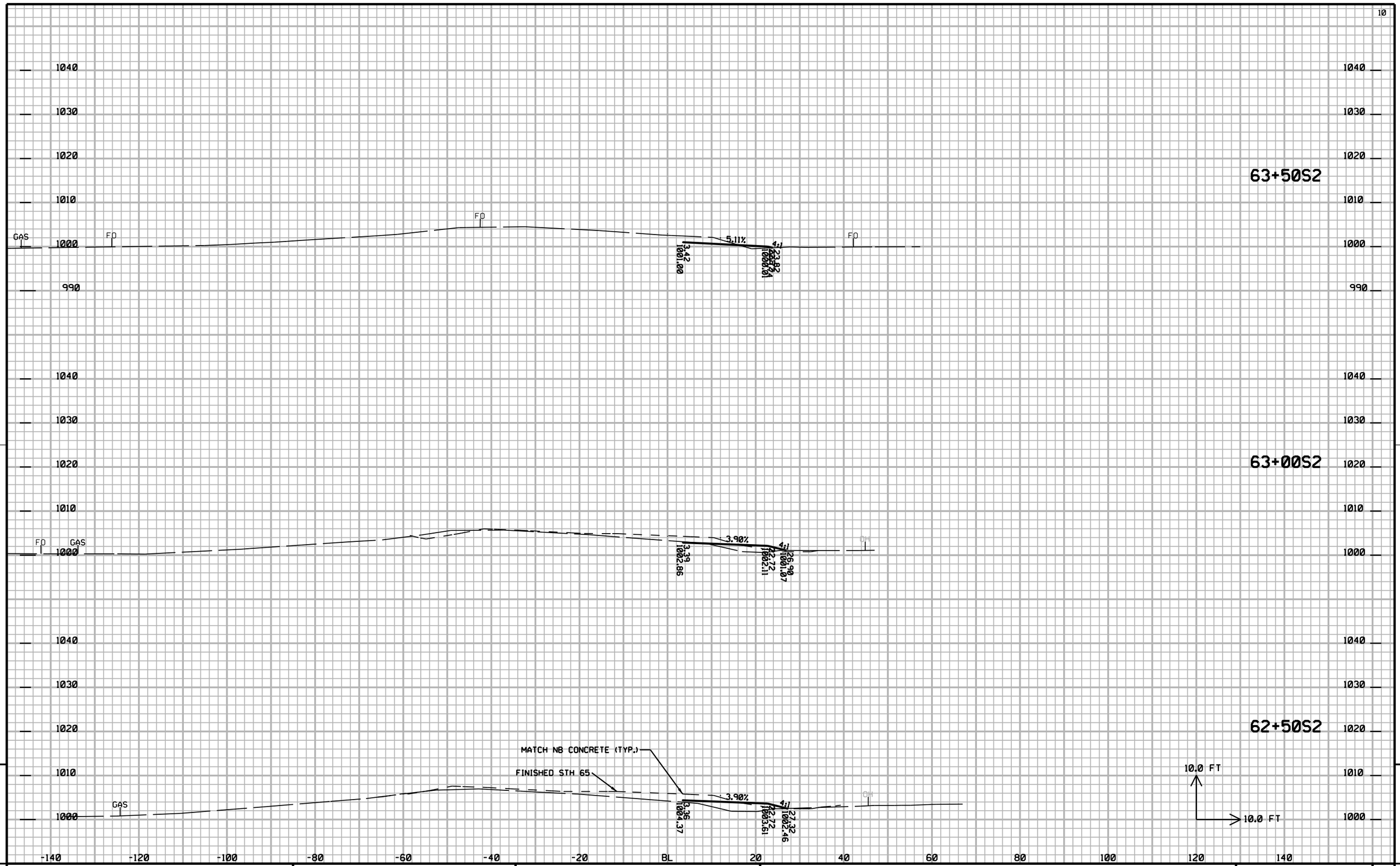
WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: STH 65 (S2): STAGE 2B: TEMP. WIDENING	SHEET NO: 926 E

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WISDOT/CADDS SHEET 21

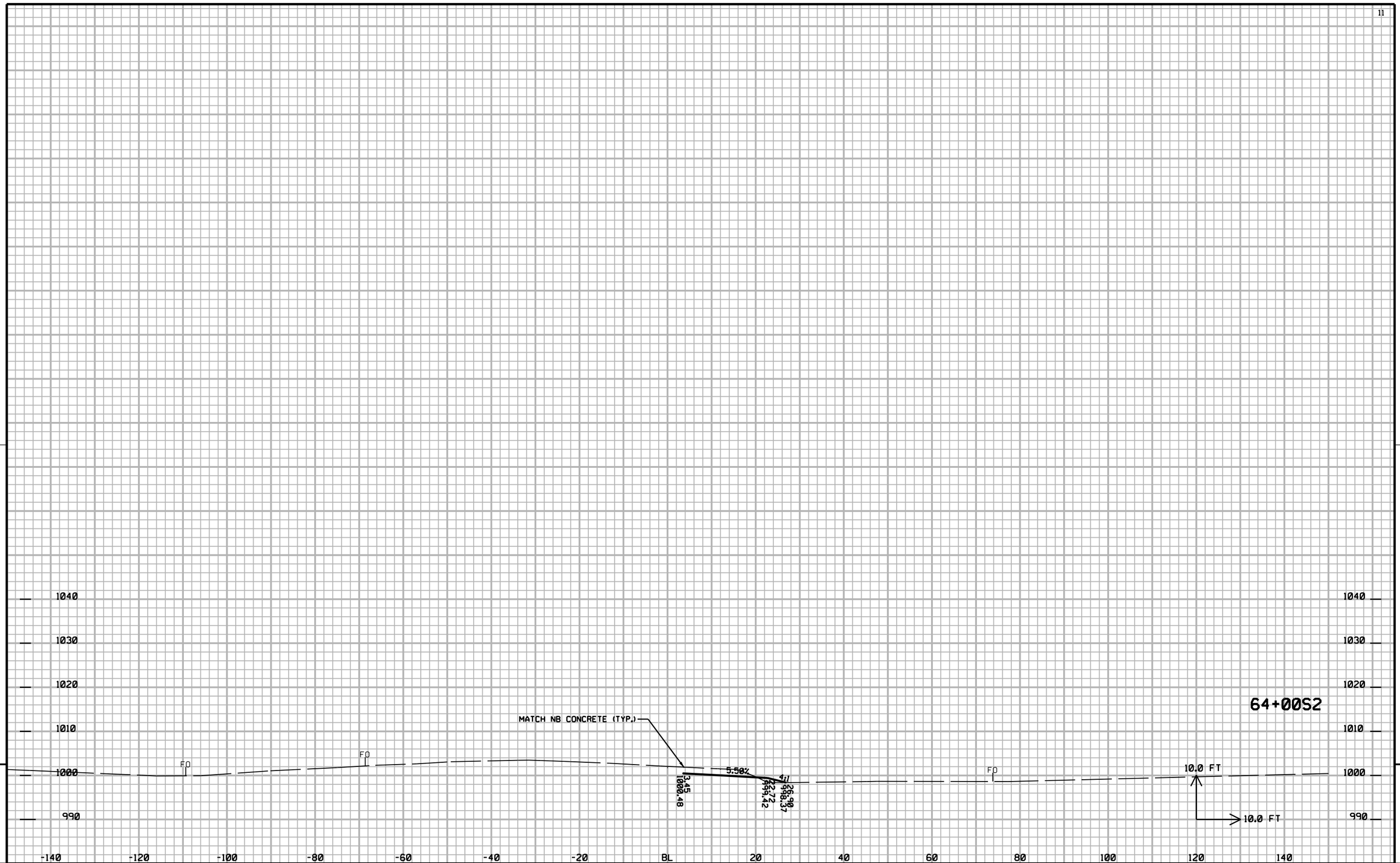


PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: STH 65 (S2): STAGE 2B: TEMP. WIDENING	SHEET NO: 927	E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090204_65-2XS.DGN PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 21

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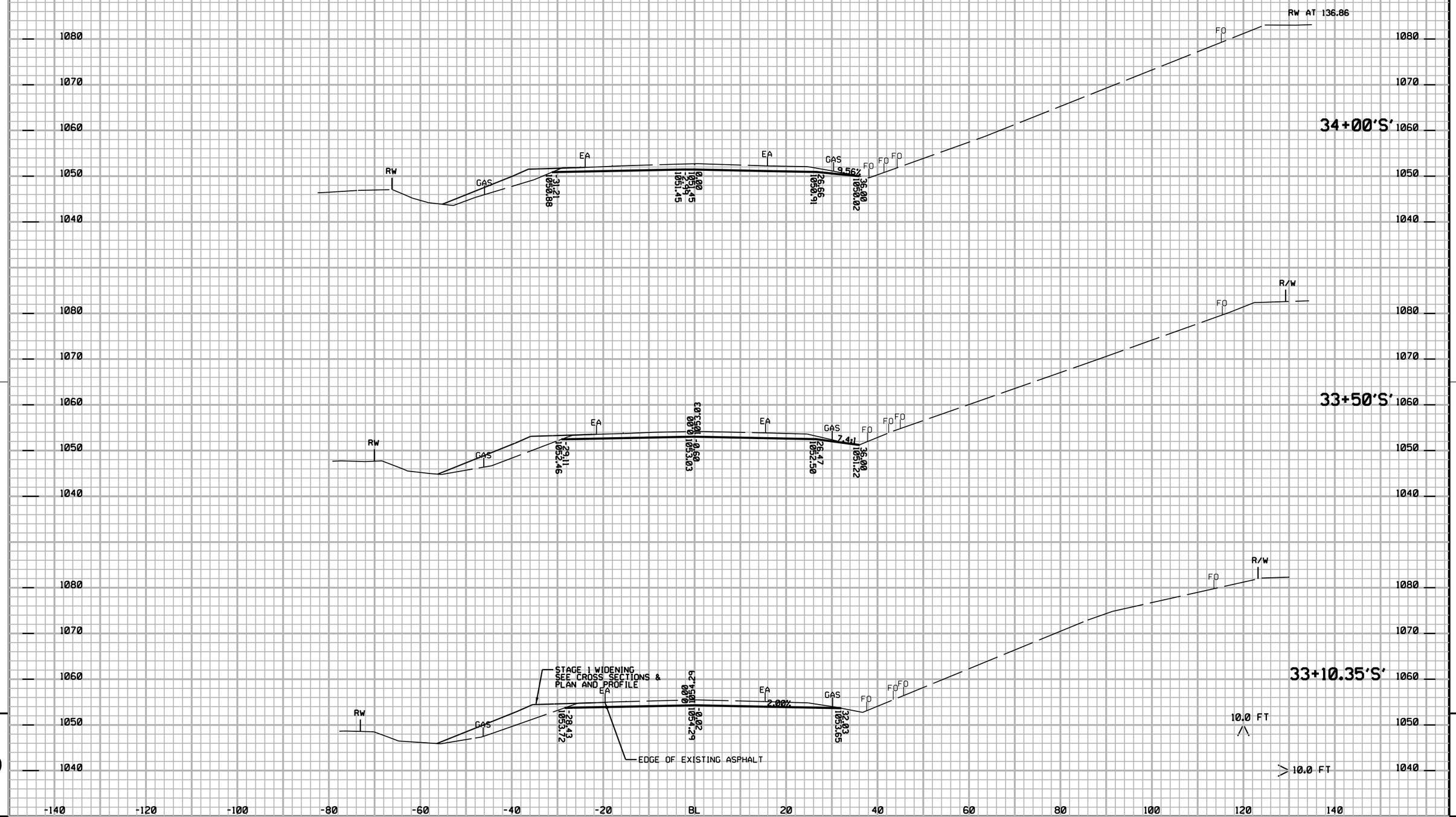
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PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: STH 65 (S2): STAGE 2B: TEMP. WIDENING	SHEET NO: 928	E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090204_65-2XS.DGN PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 21



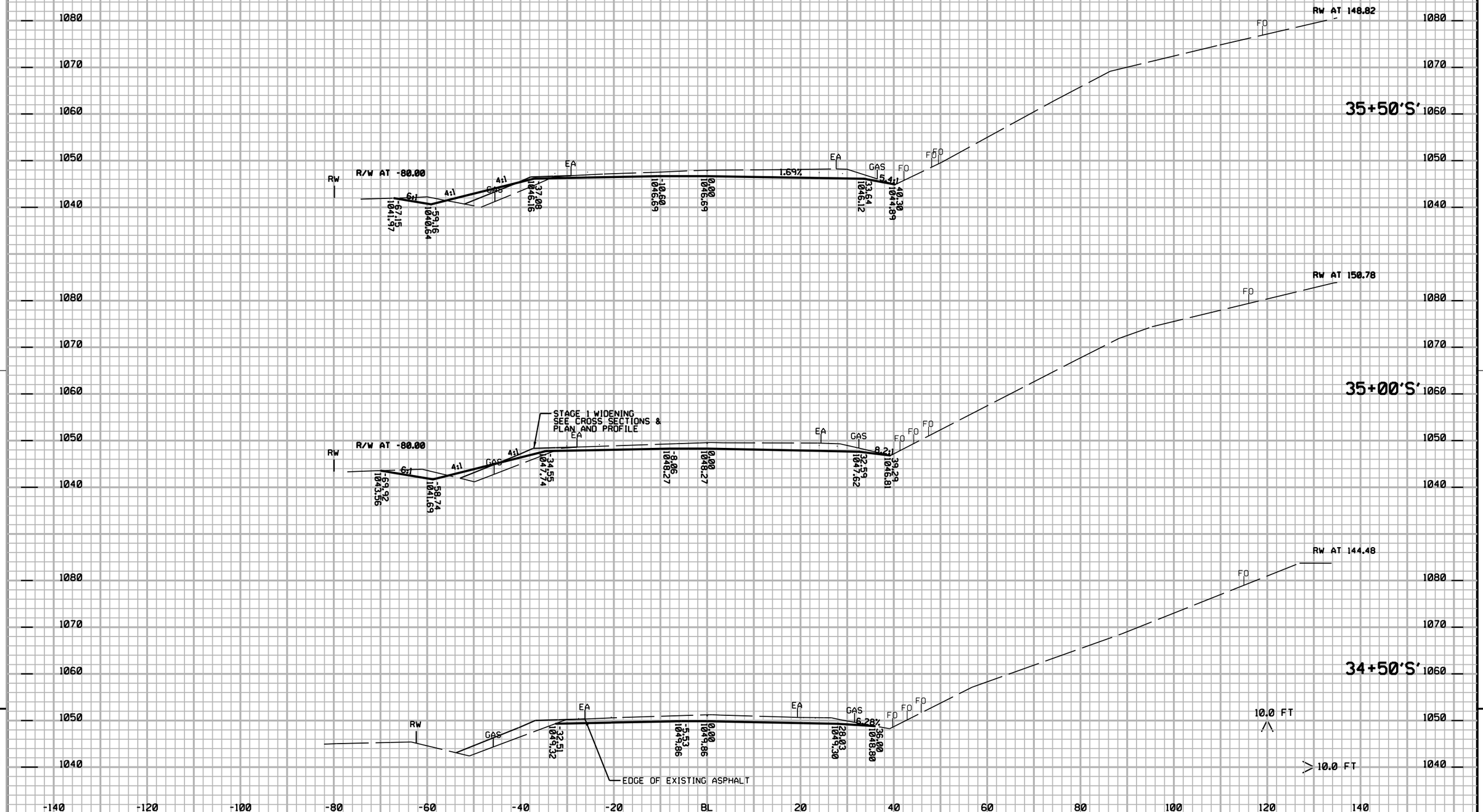
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PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: STH 65	SHEET NO: 929 E

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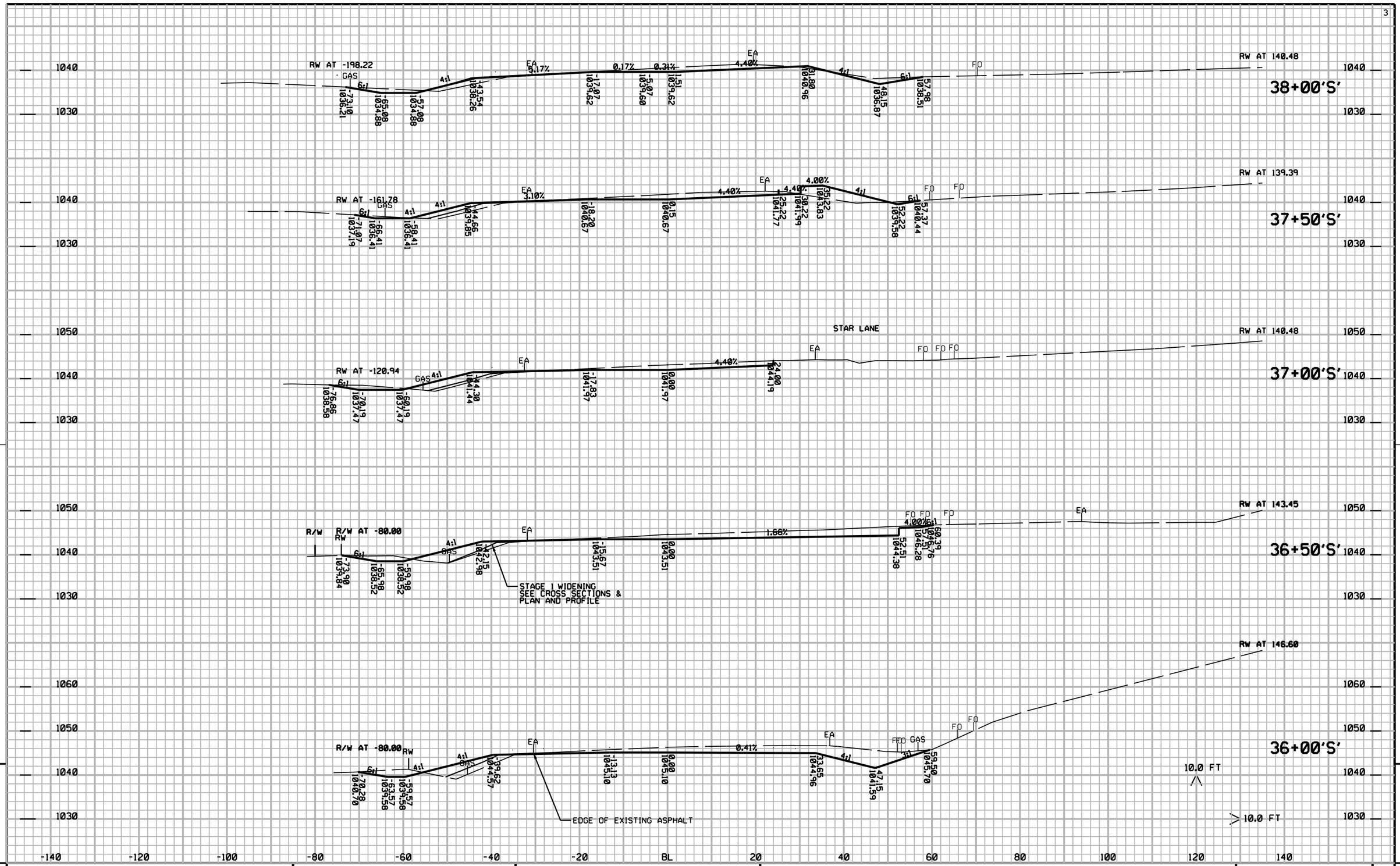
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PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: STH 65	SHEET NO: 930 E

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WISDOT/CADDS SHEET 21



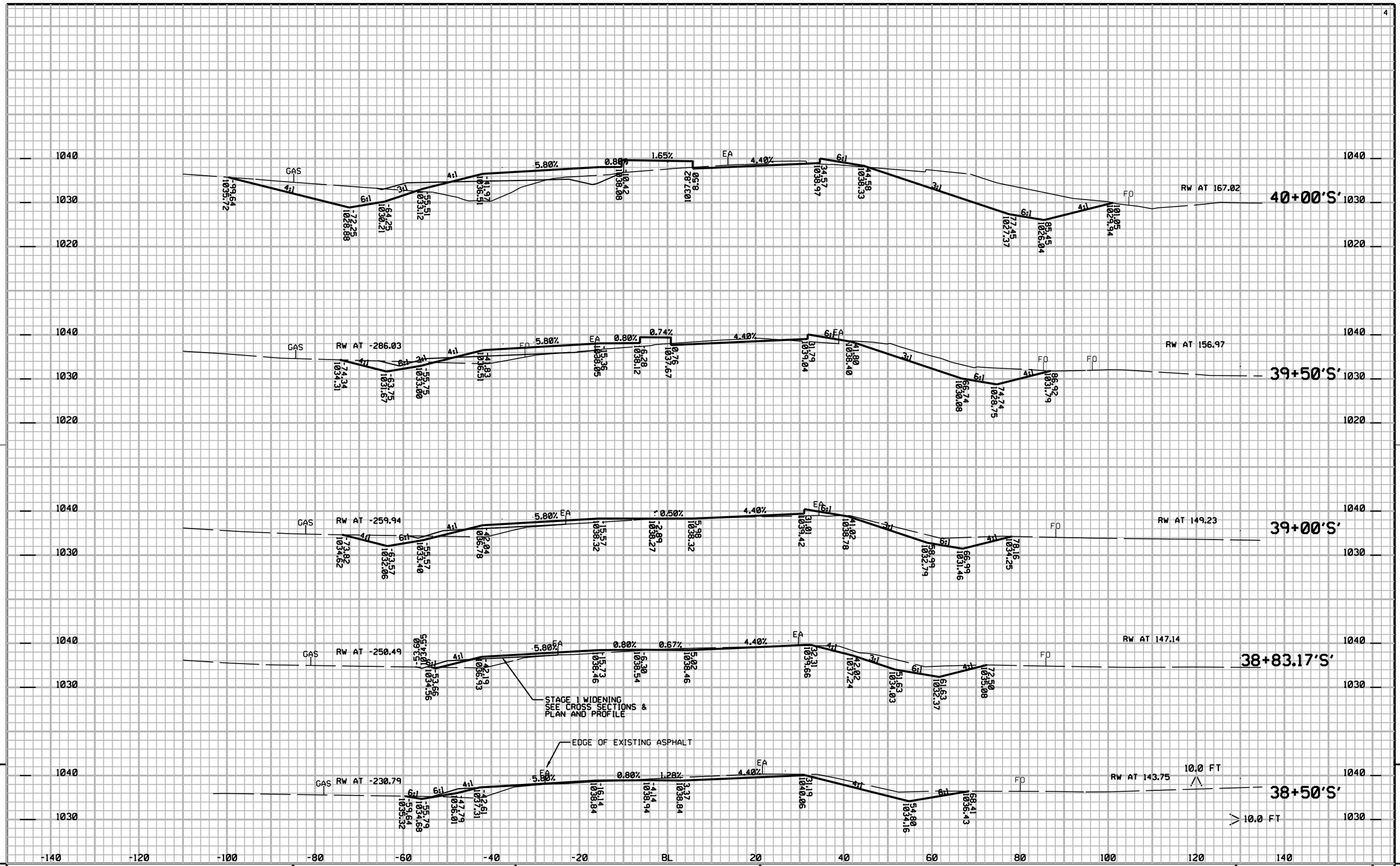
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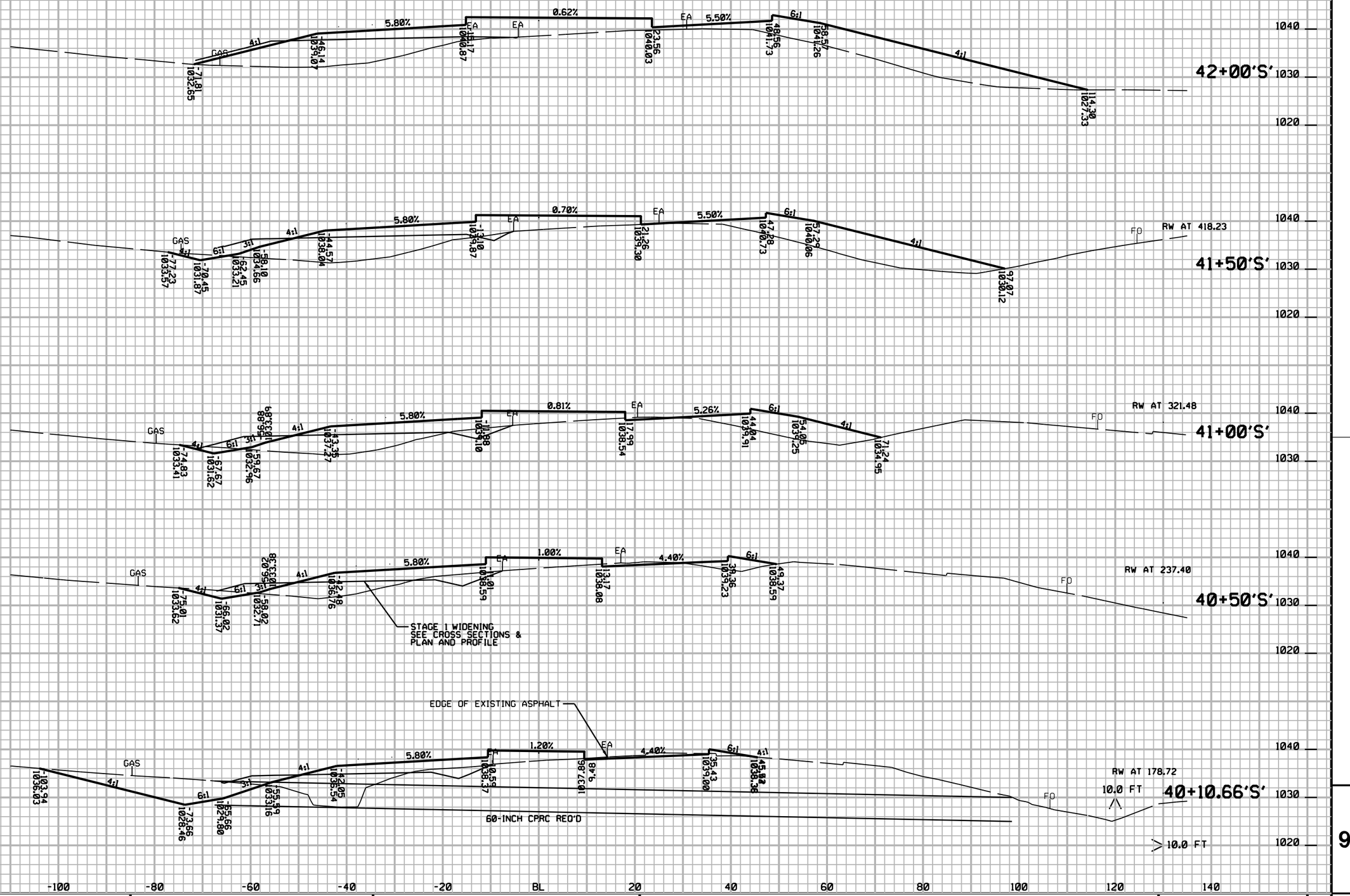
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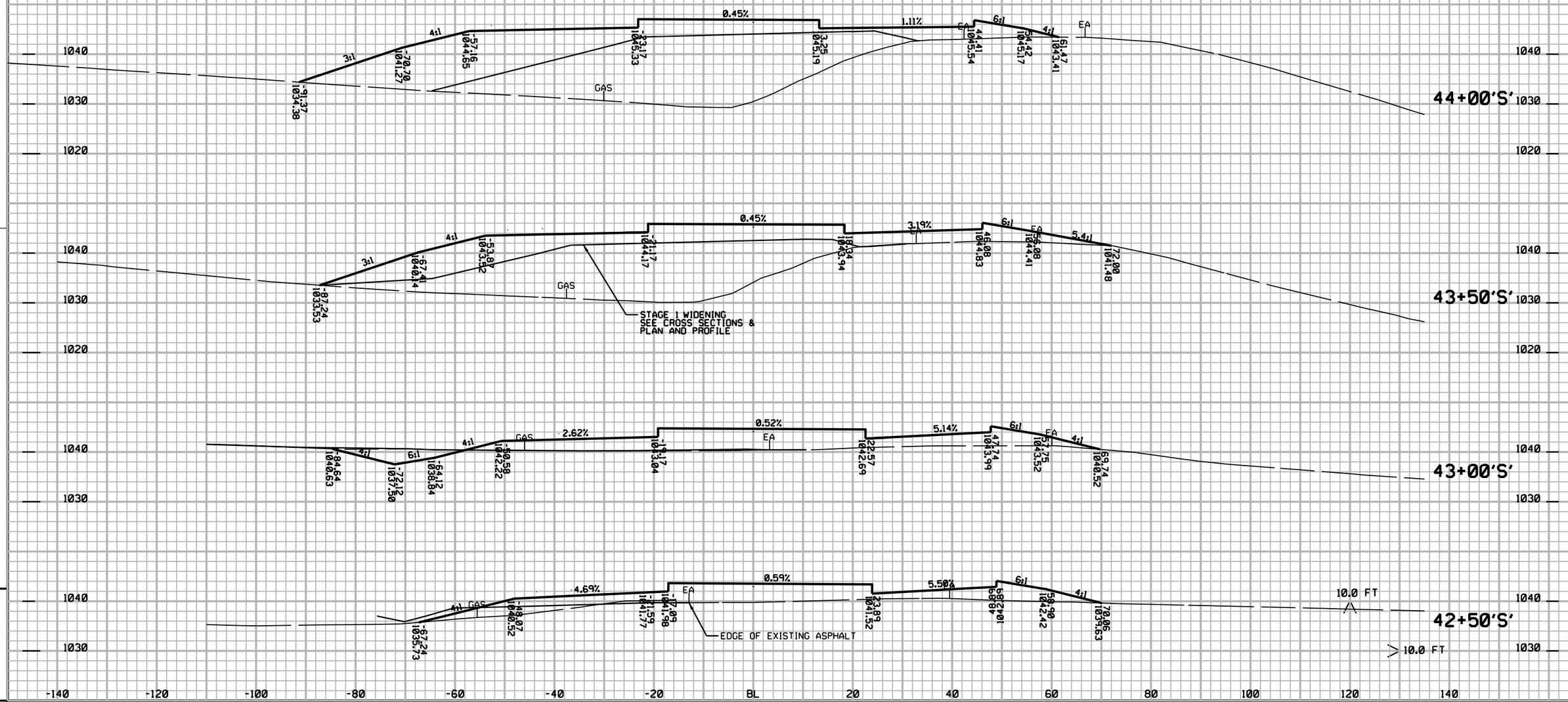
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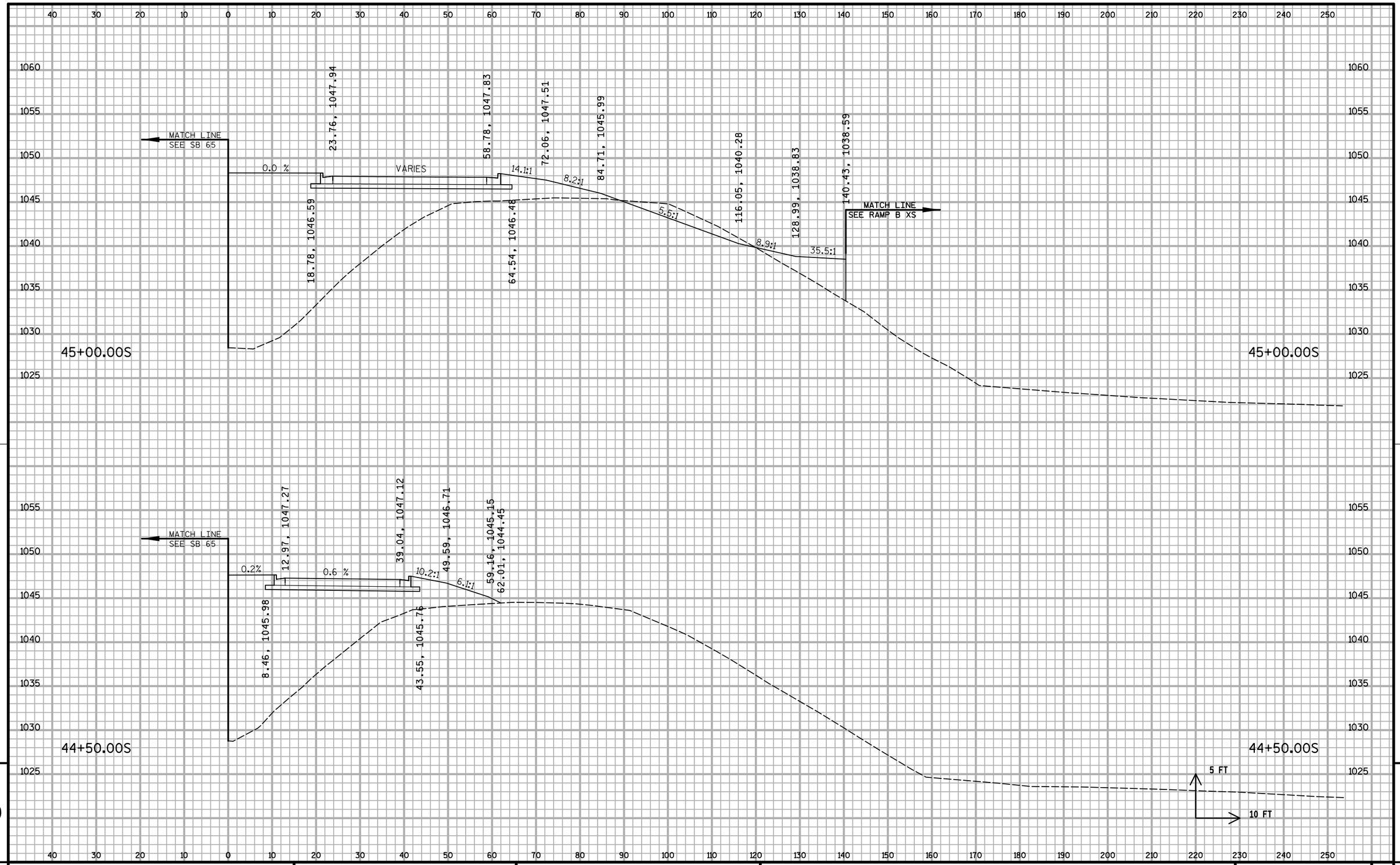
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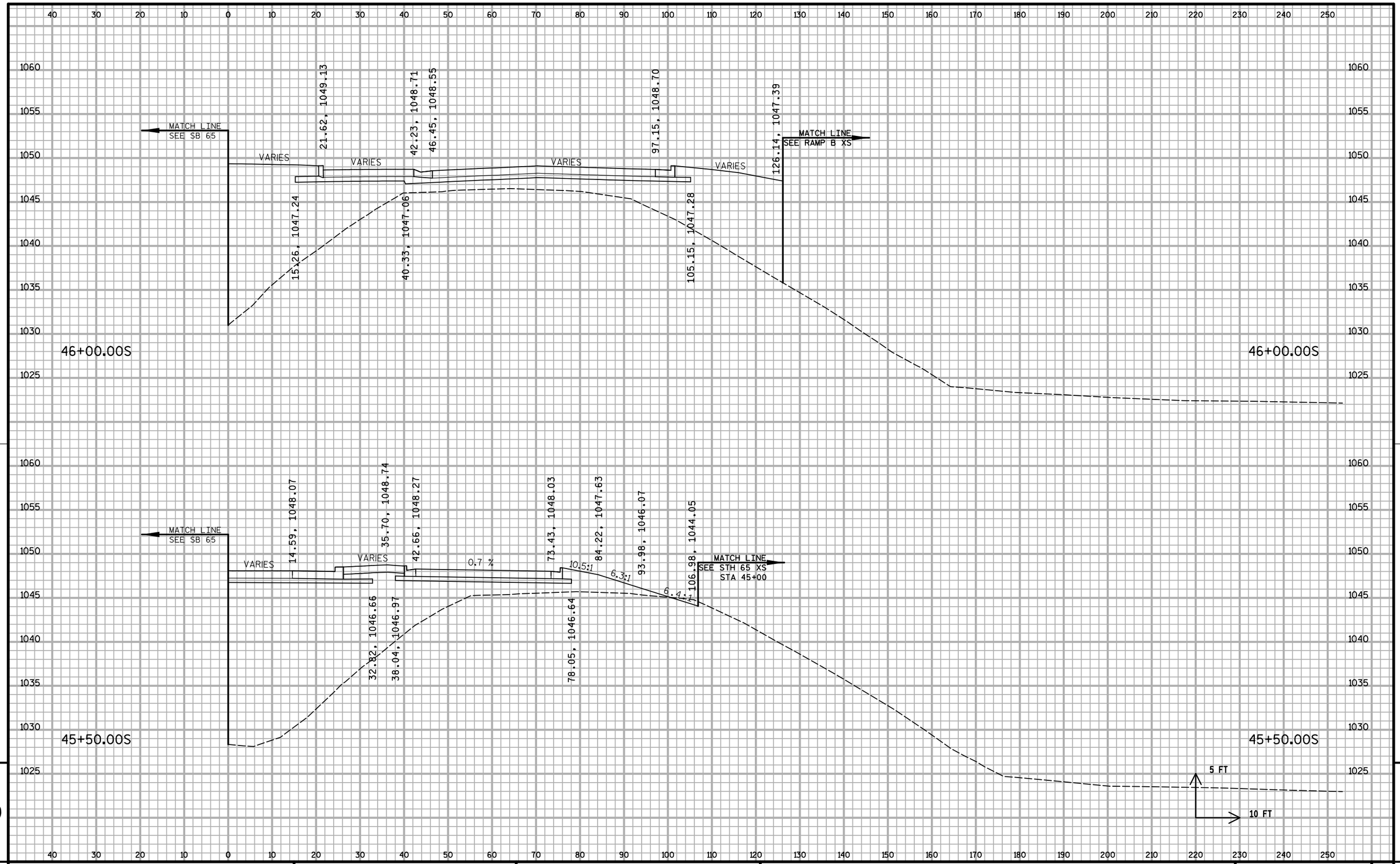
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WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: STH 65 (NB)	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090210_65xs_NB.dgn PLOT DATE : 1/5/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

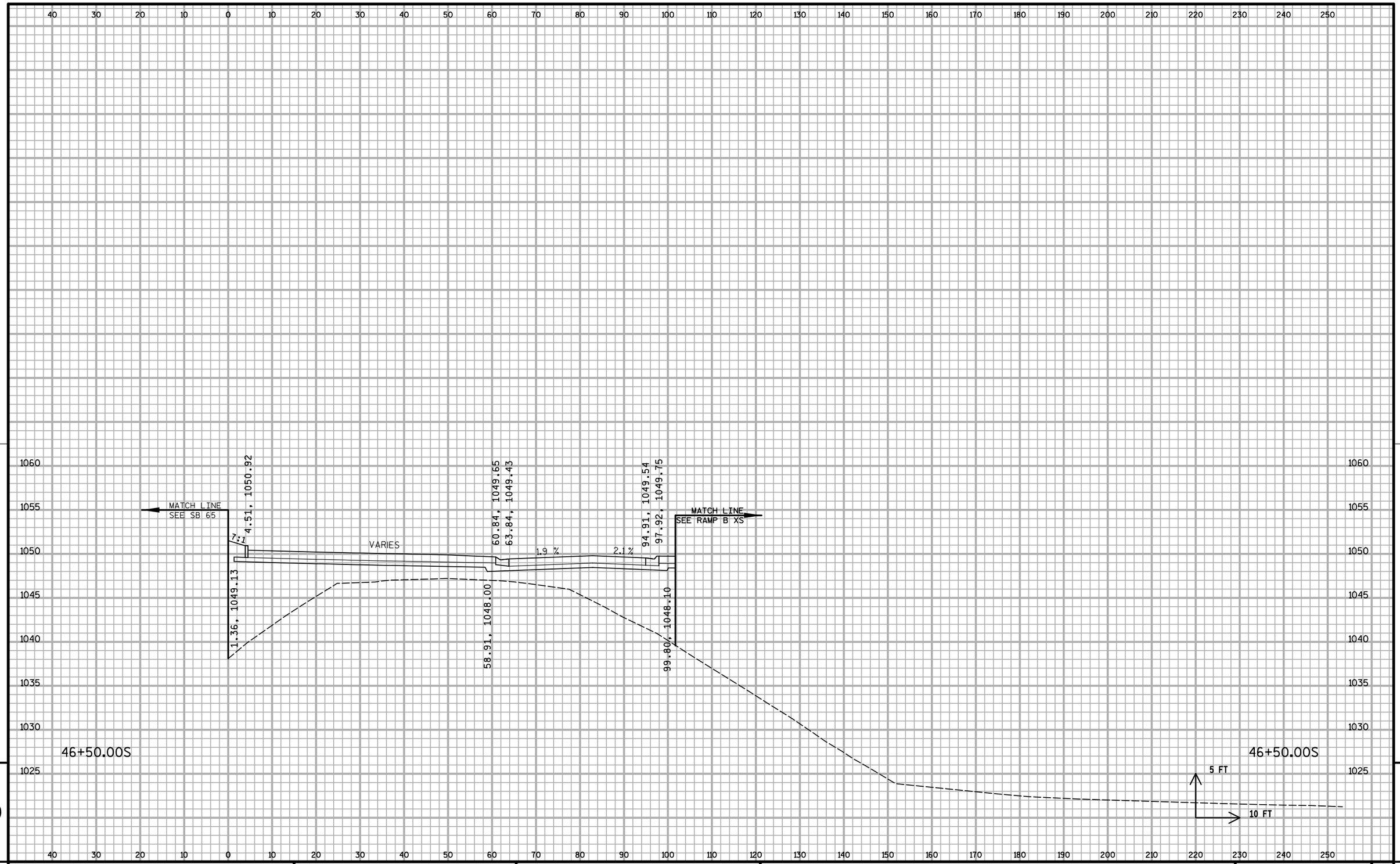


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: STH 65 (NB)	SHEET:	E

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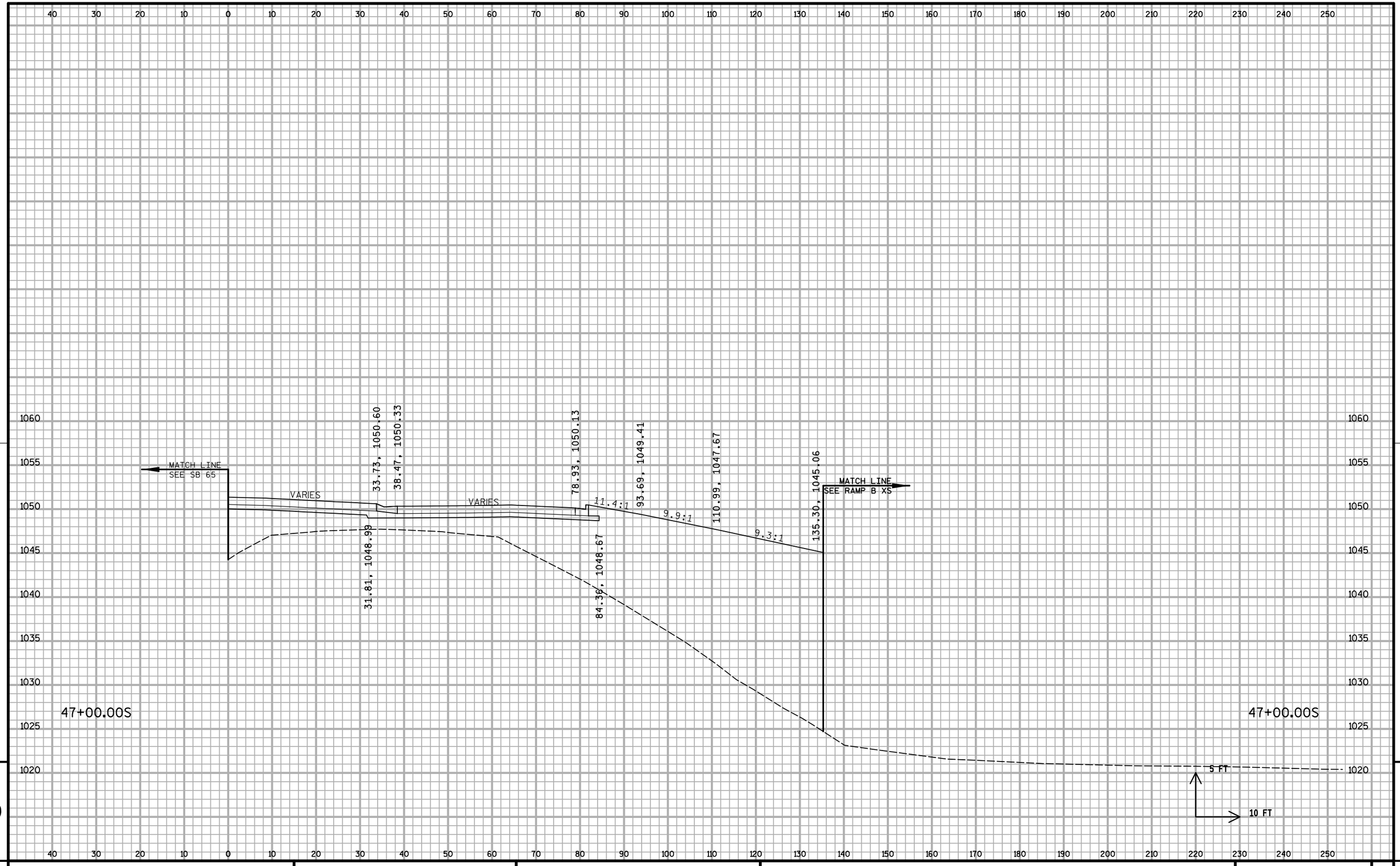


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: STH 65 (NB)	SHEET:	E

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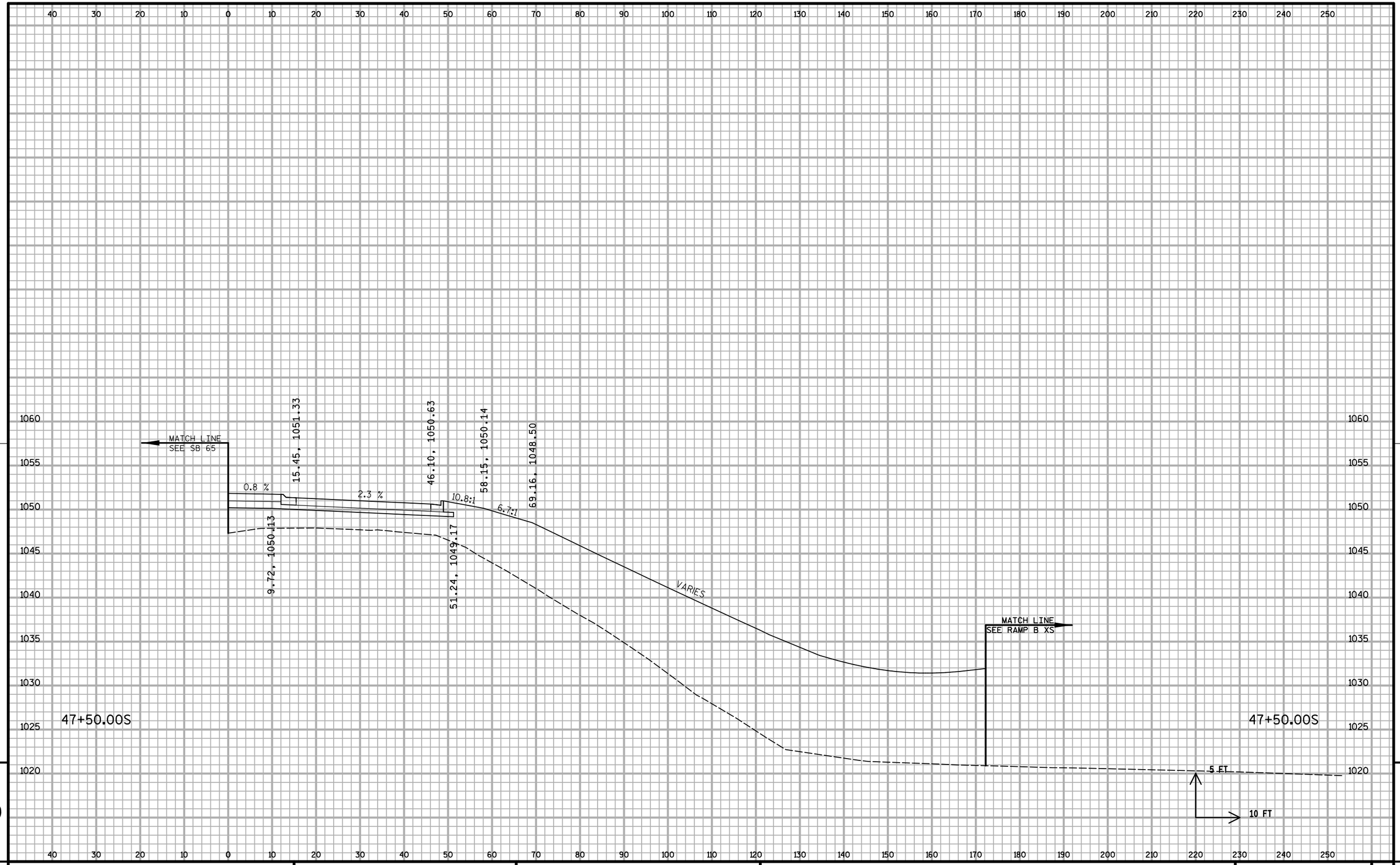


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: STH 65 (NB)	SHEET:	E

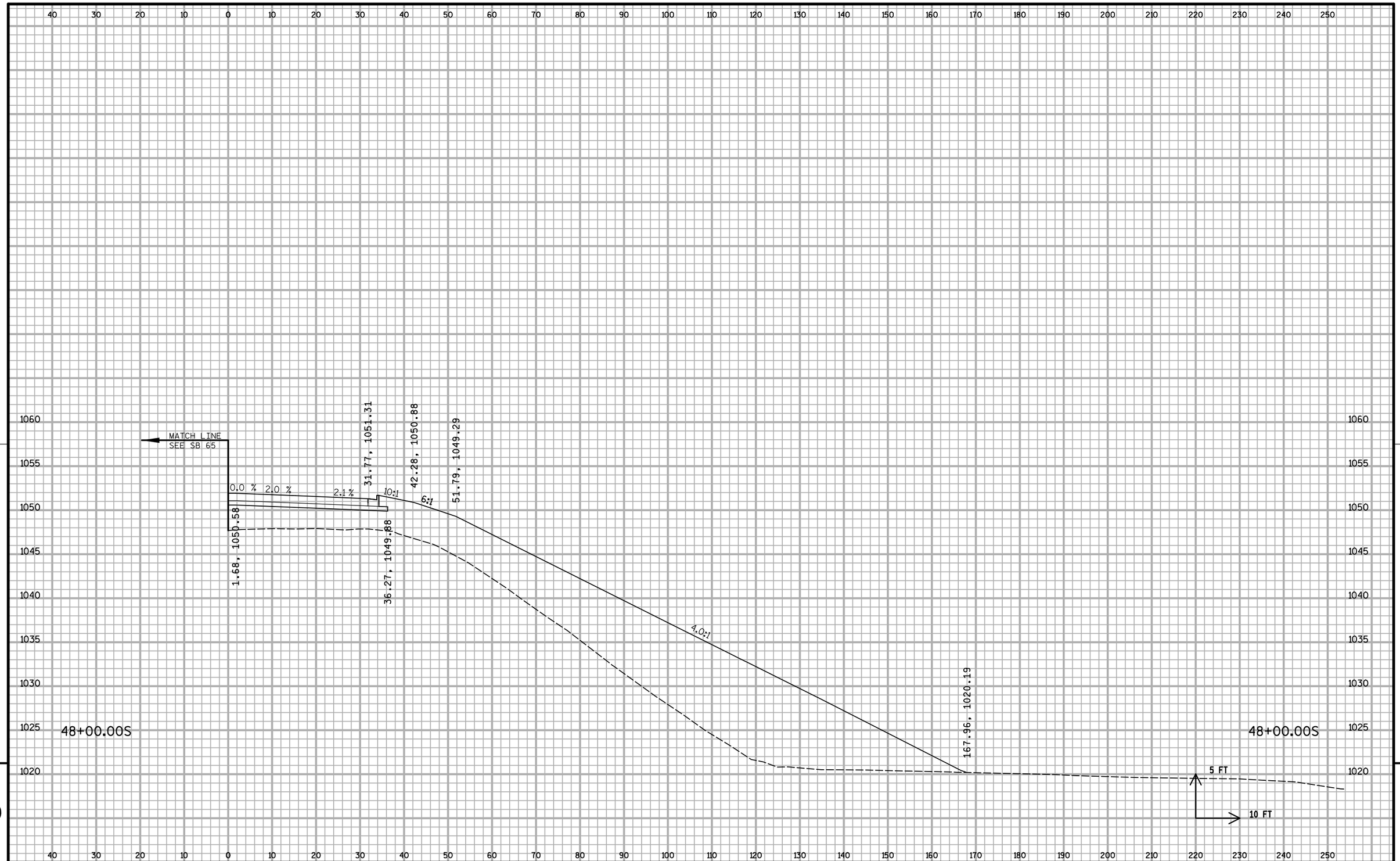
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: STH 65 (NB)	SHEET:	E

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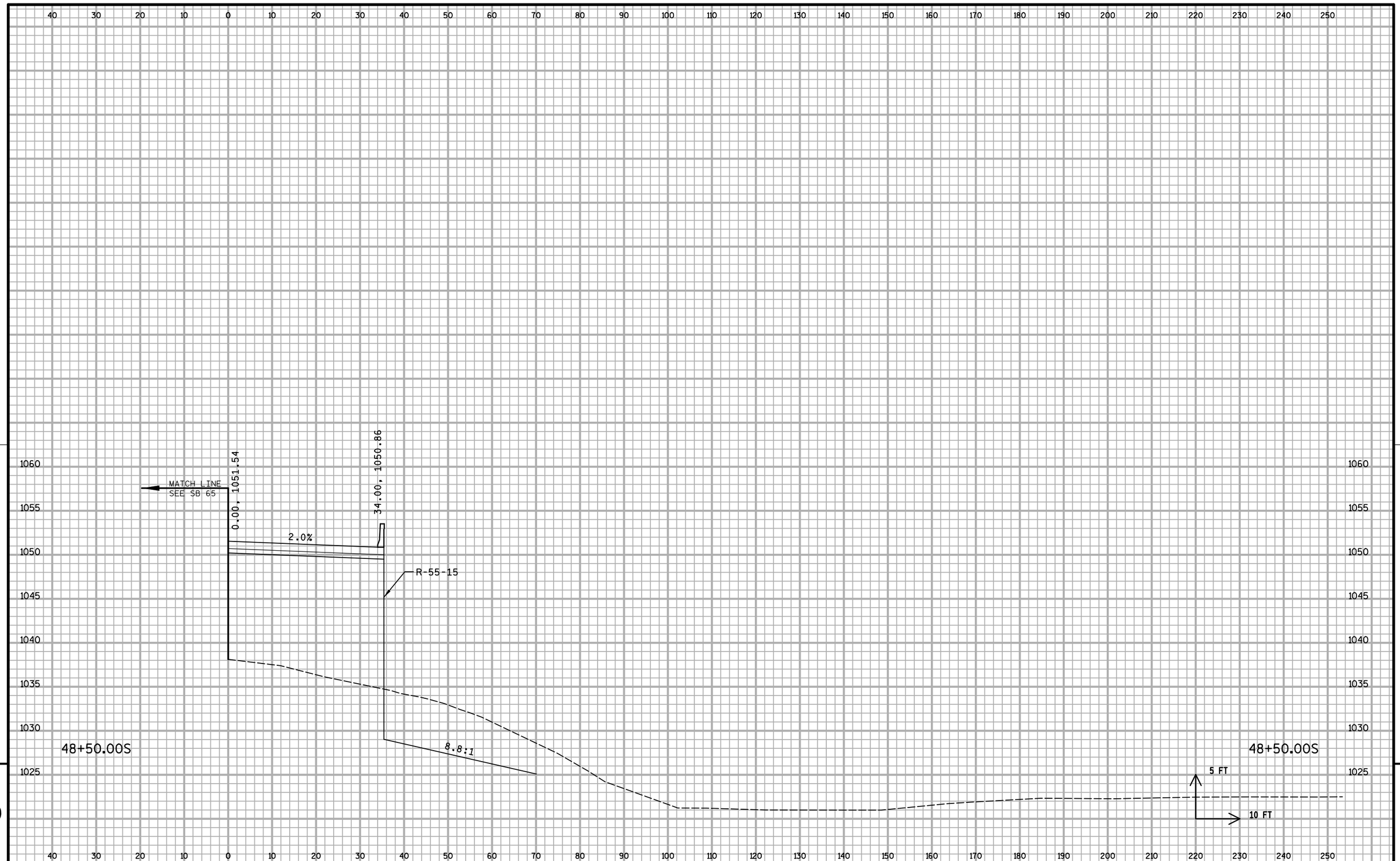


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: STH 65 (NB)	SHEET: E

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WISDOT/CADDS SHEET 21

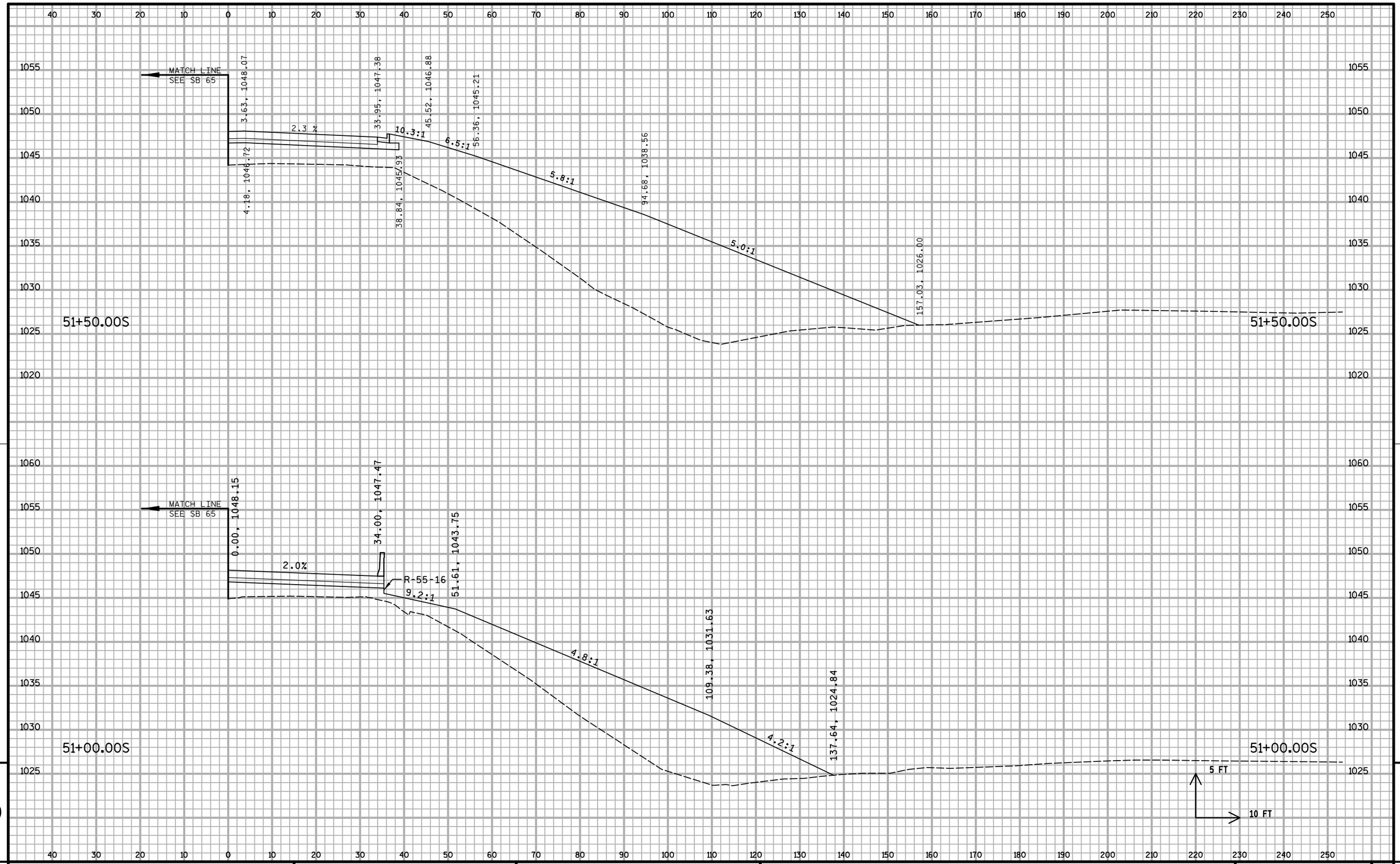


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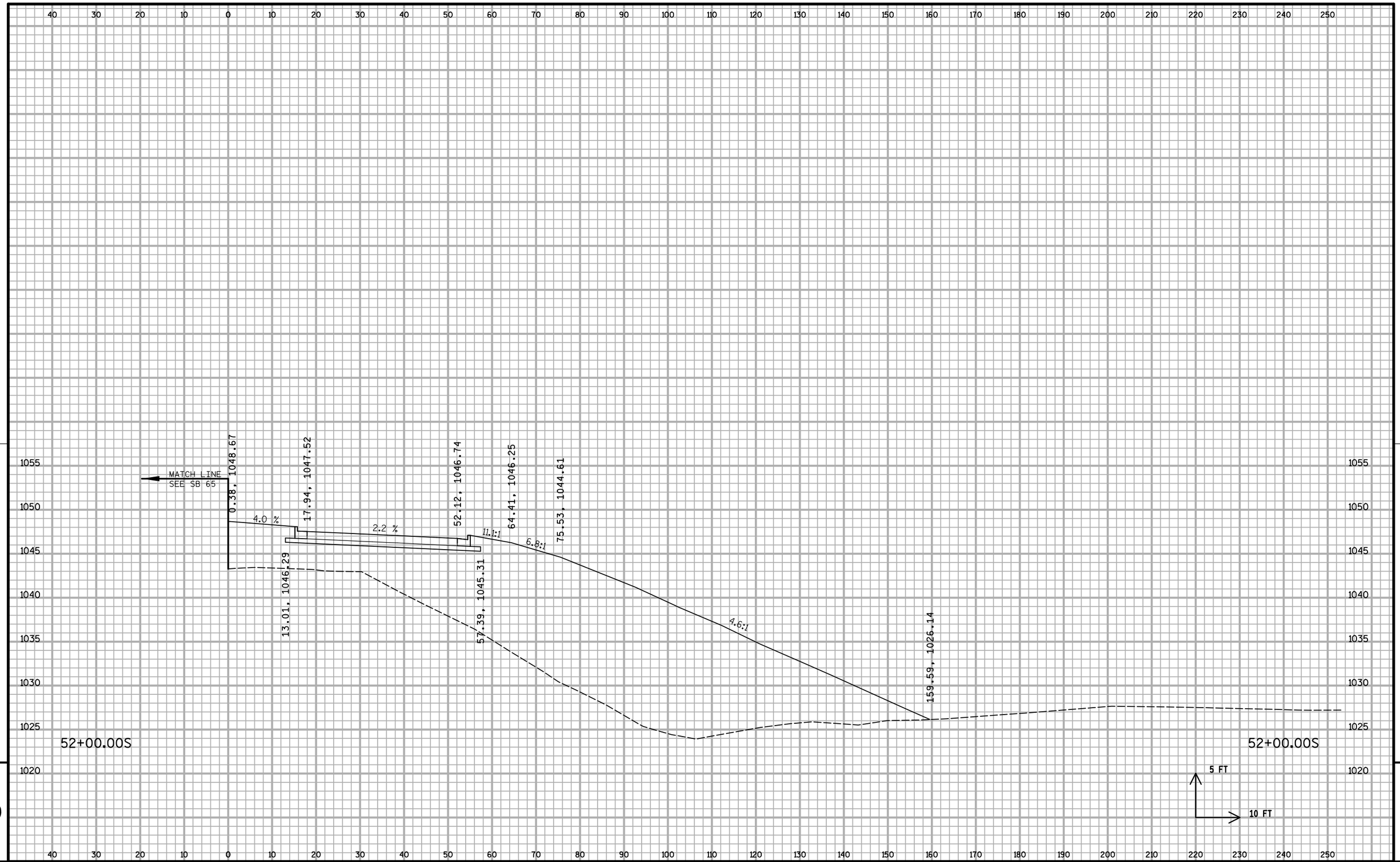


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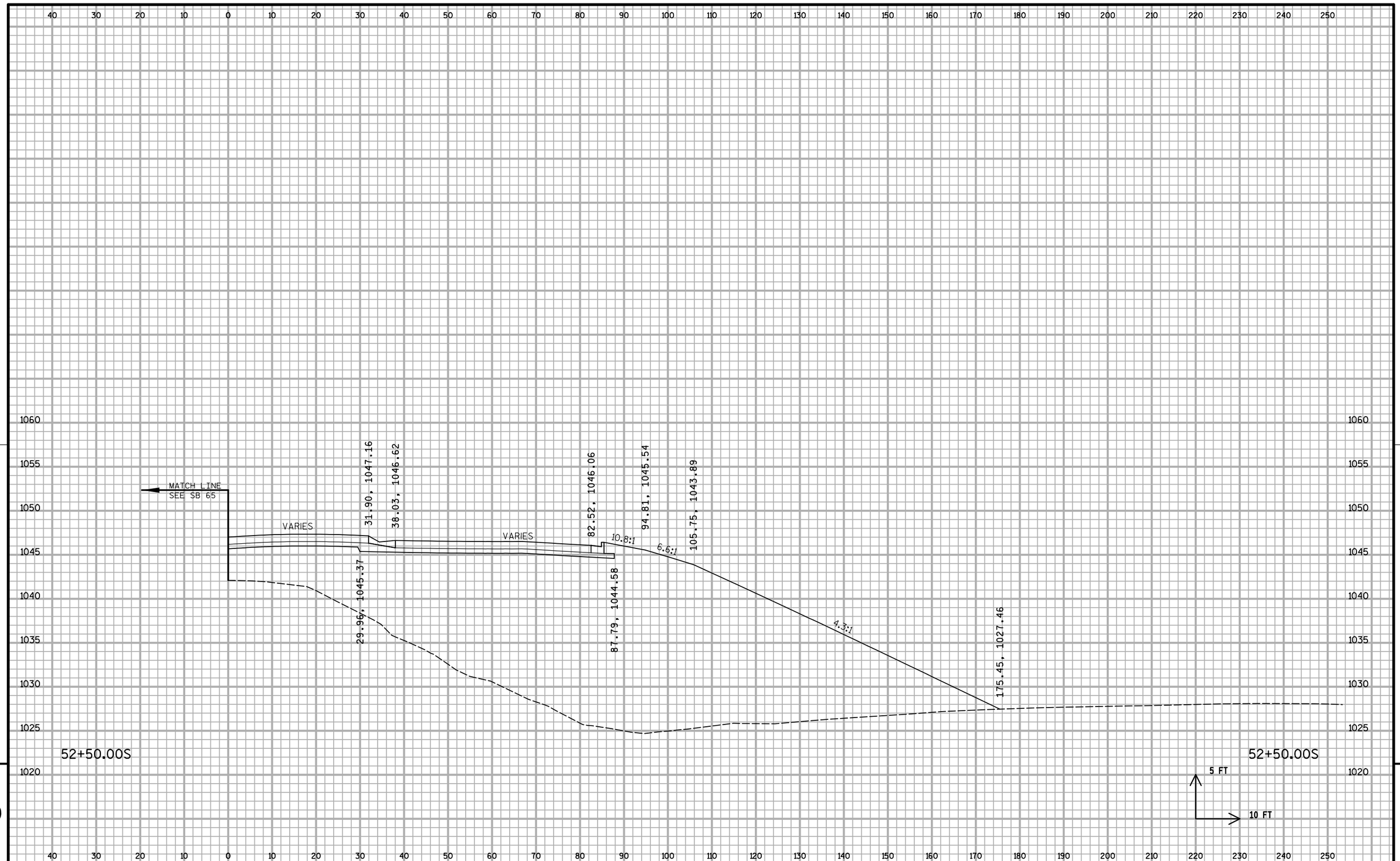
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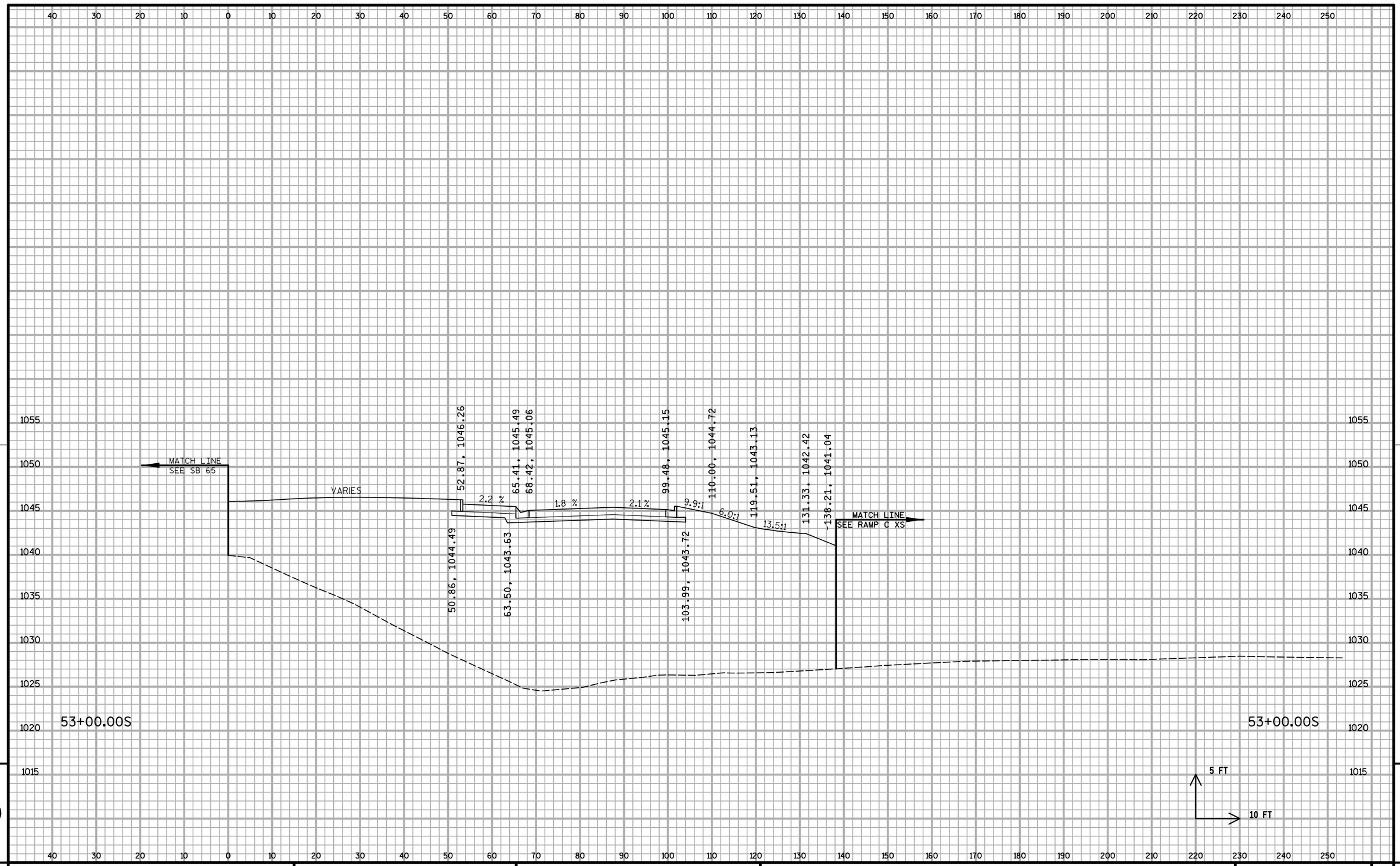
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: STH 65 (NB)	SHEET:	E

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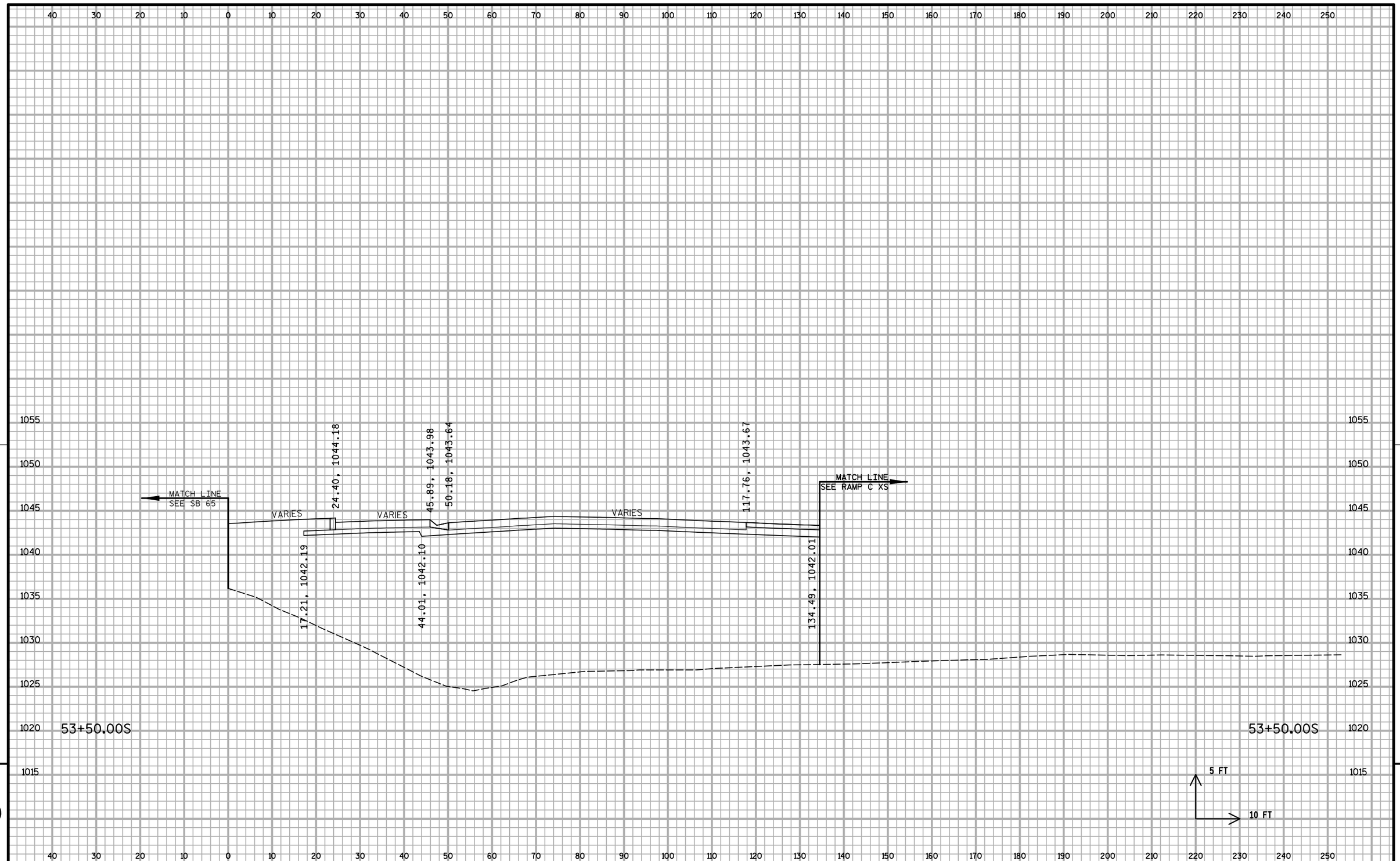


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: STH 65 (NB)	SHEET:	E

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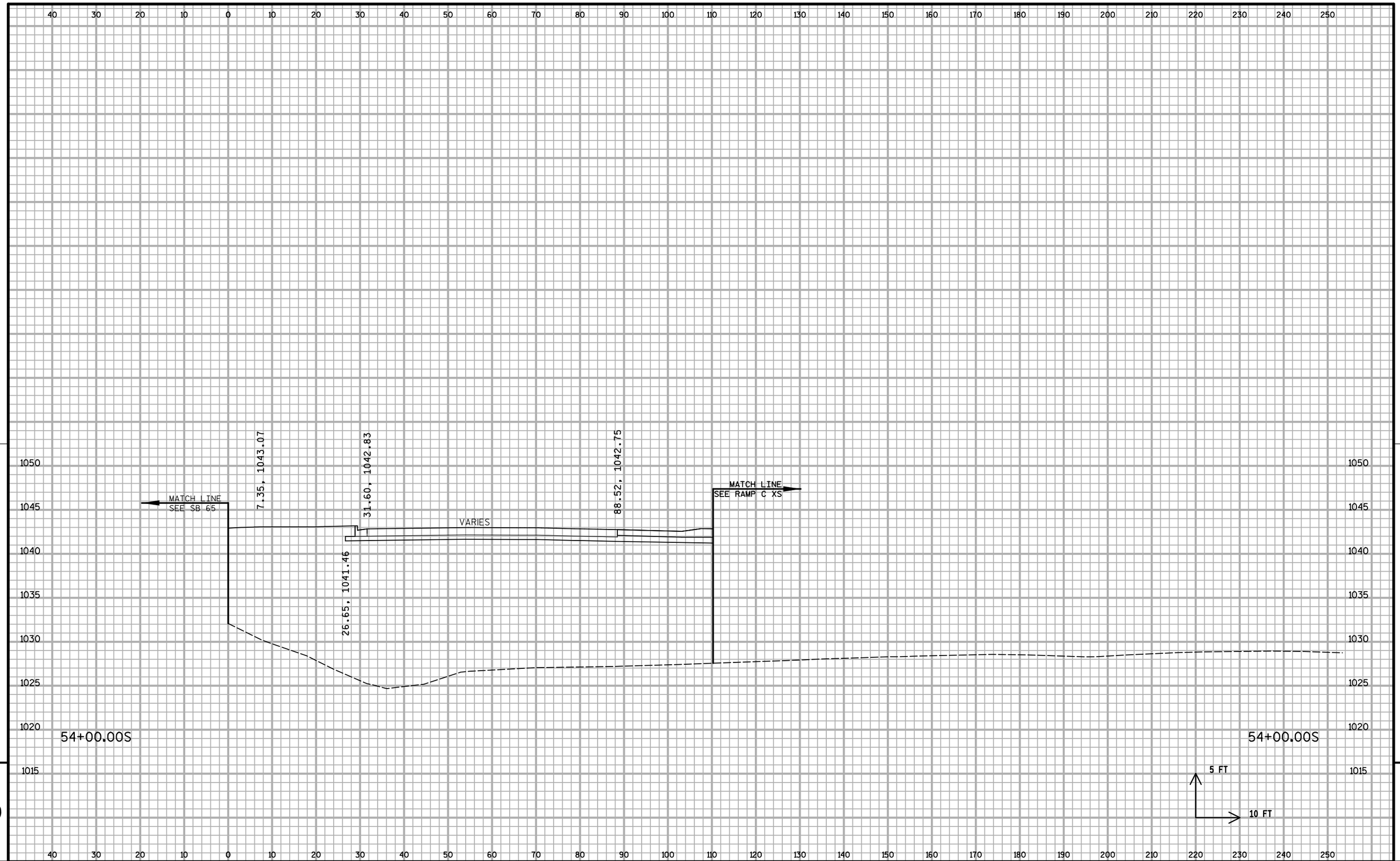


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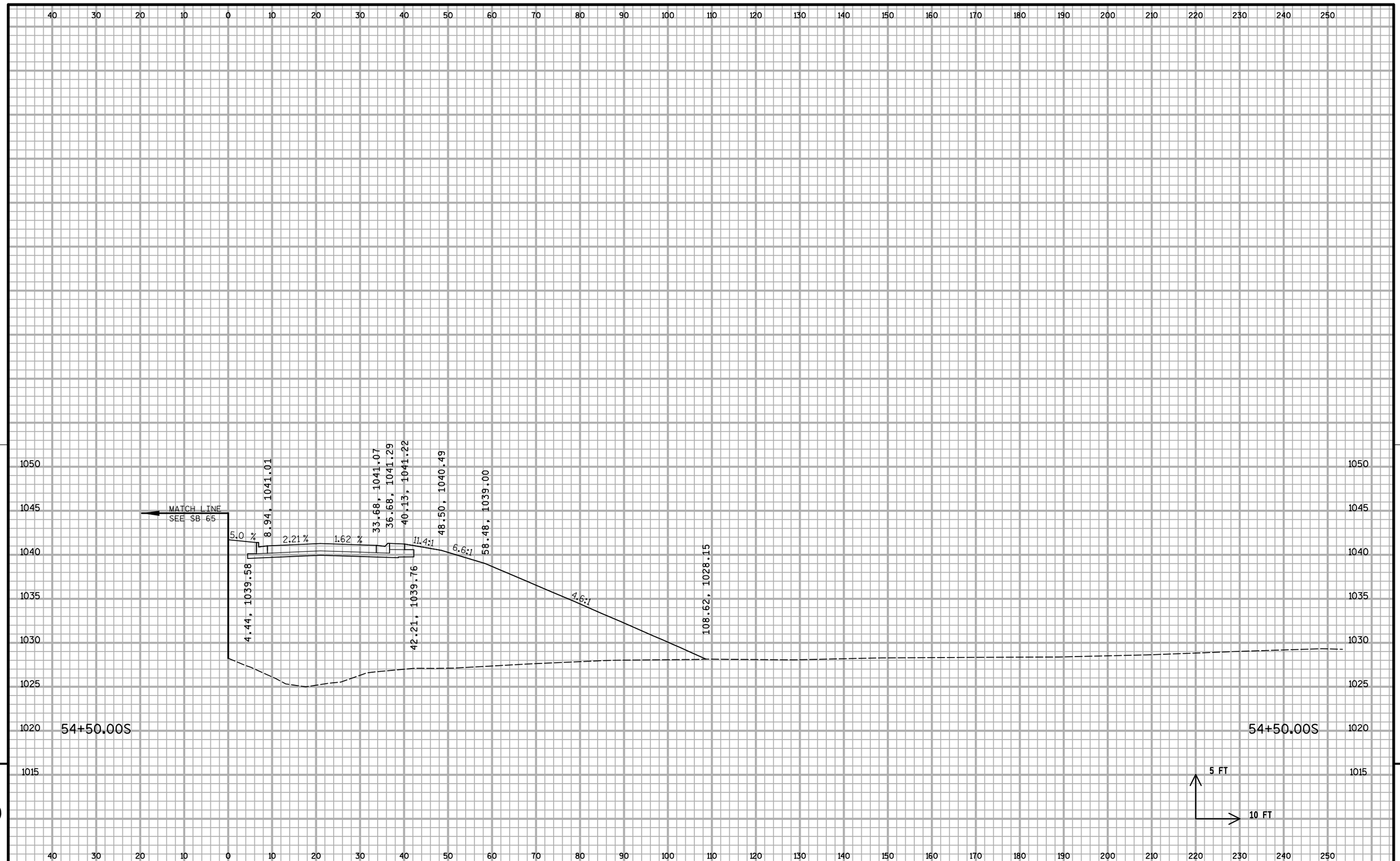
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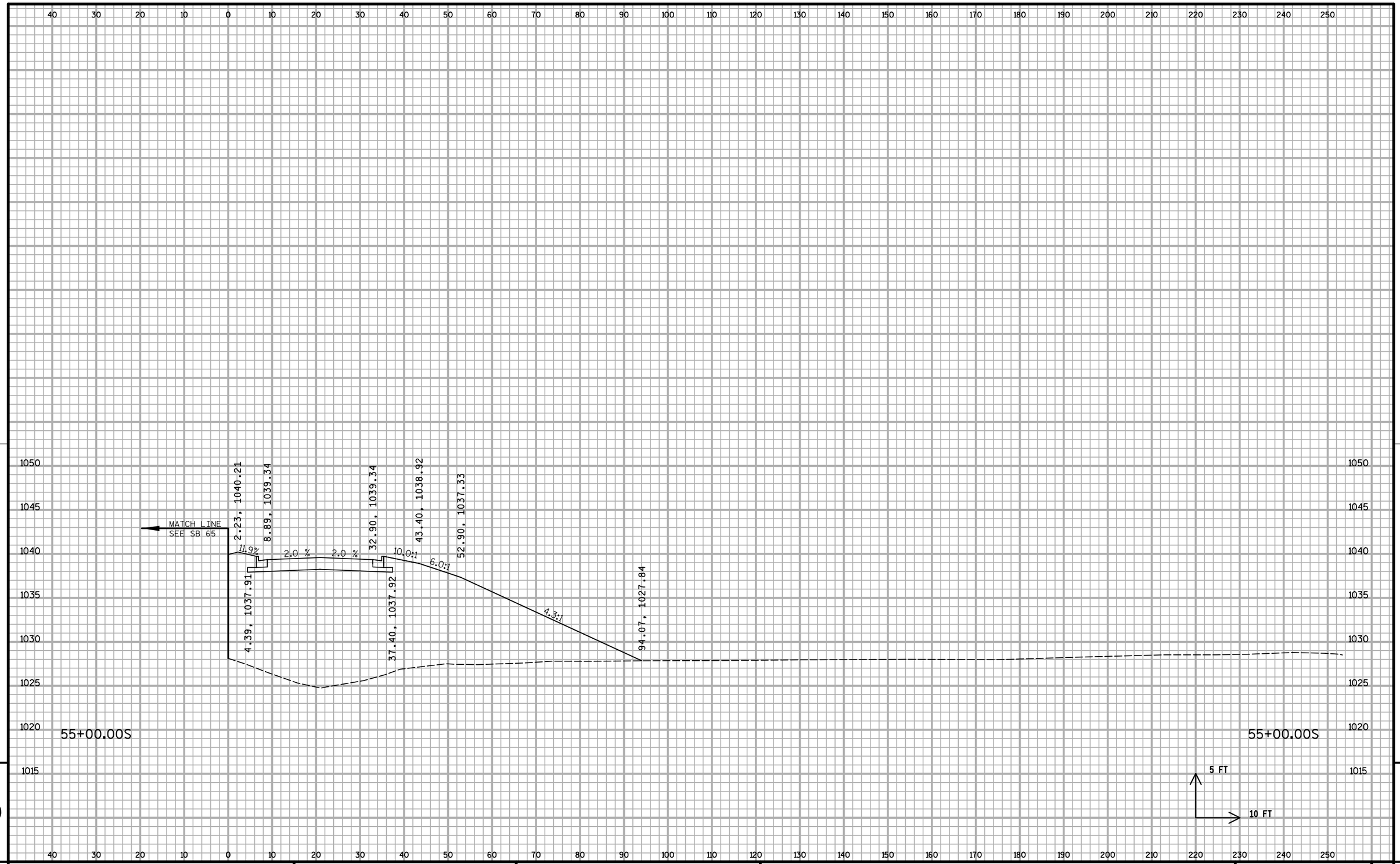


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: STH 65 (NB)	SHEET:	E

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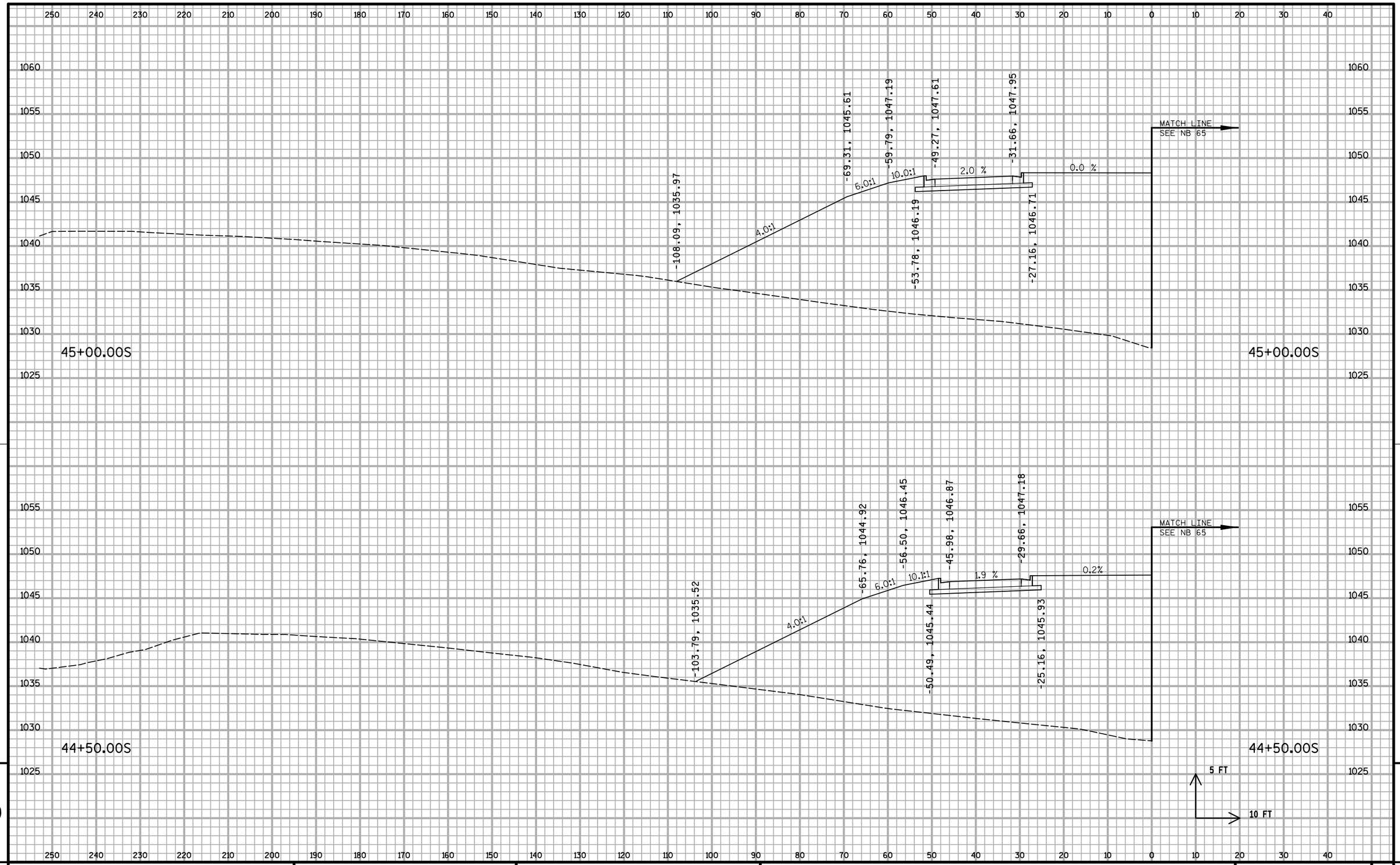


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: STH 65 (NB)	SHEET:	E

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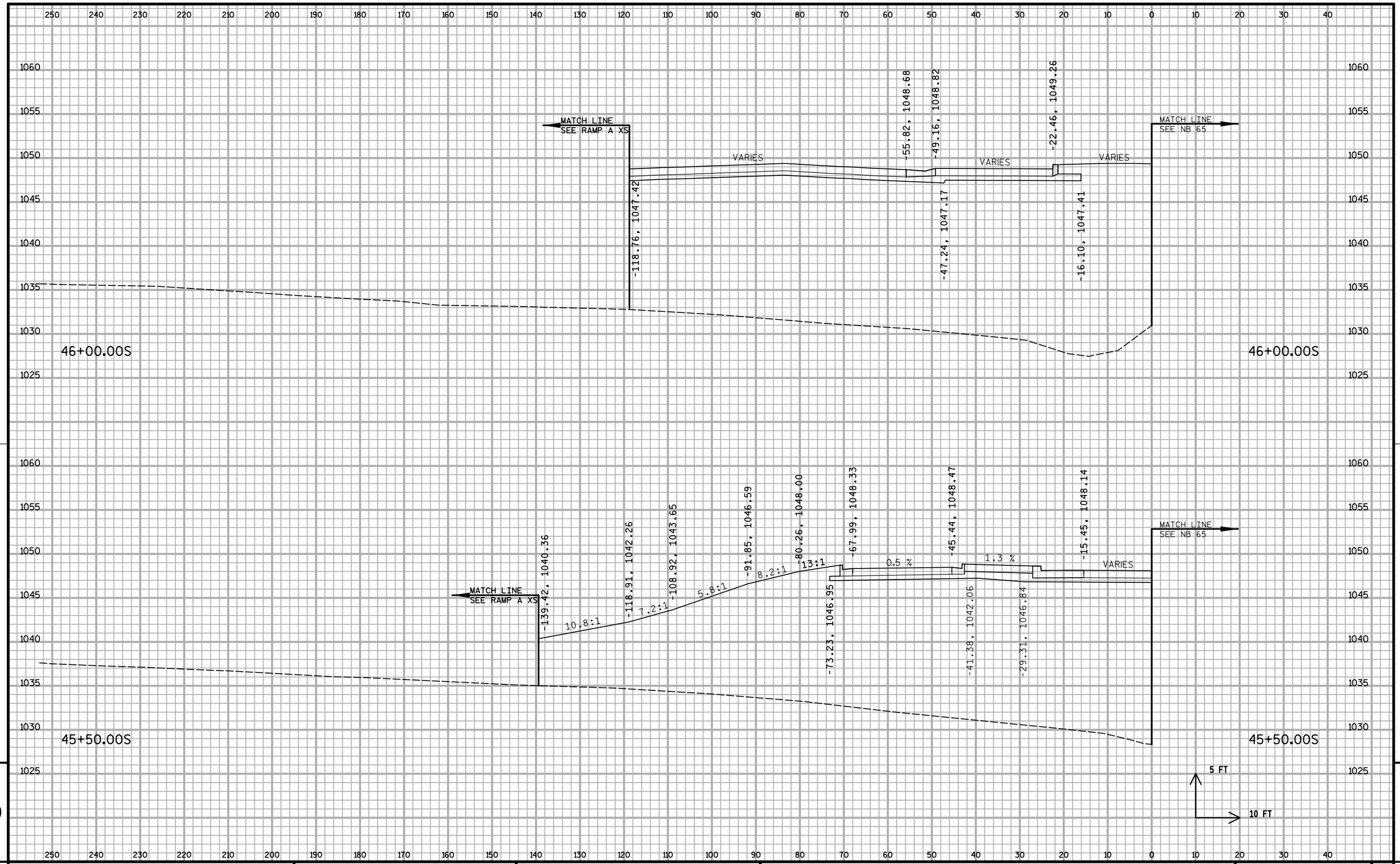


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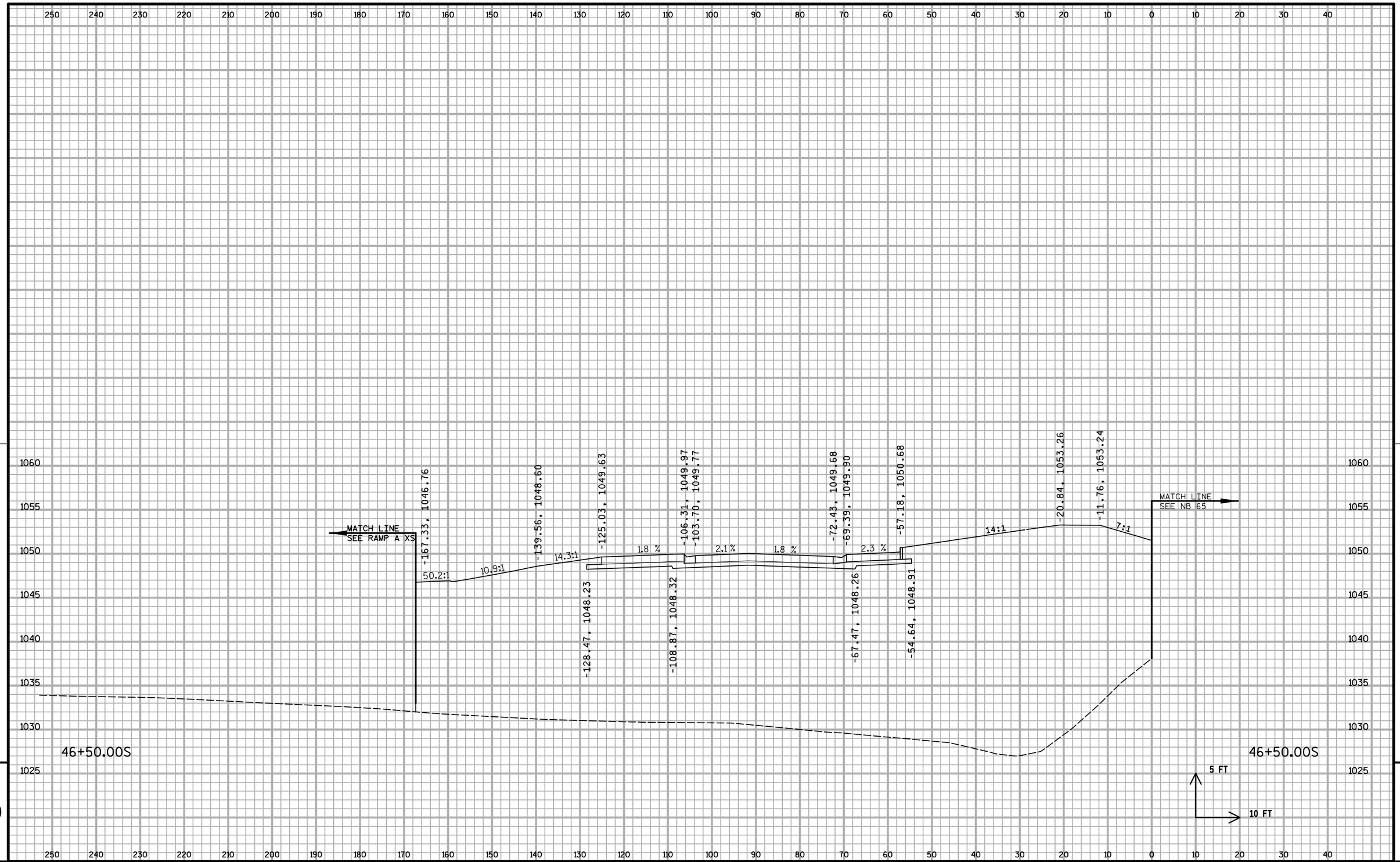
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: STH 65 (SB)	SHEET:	E

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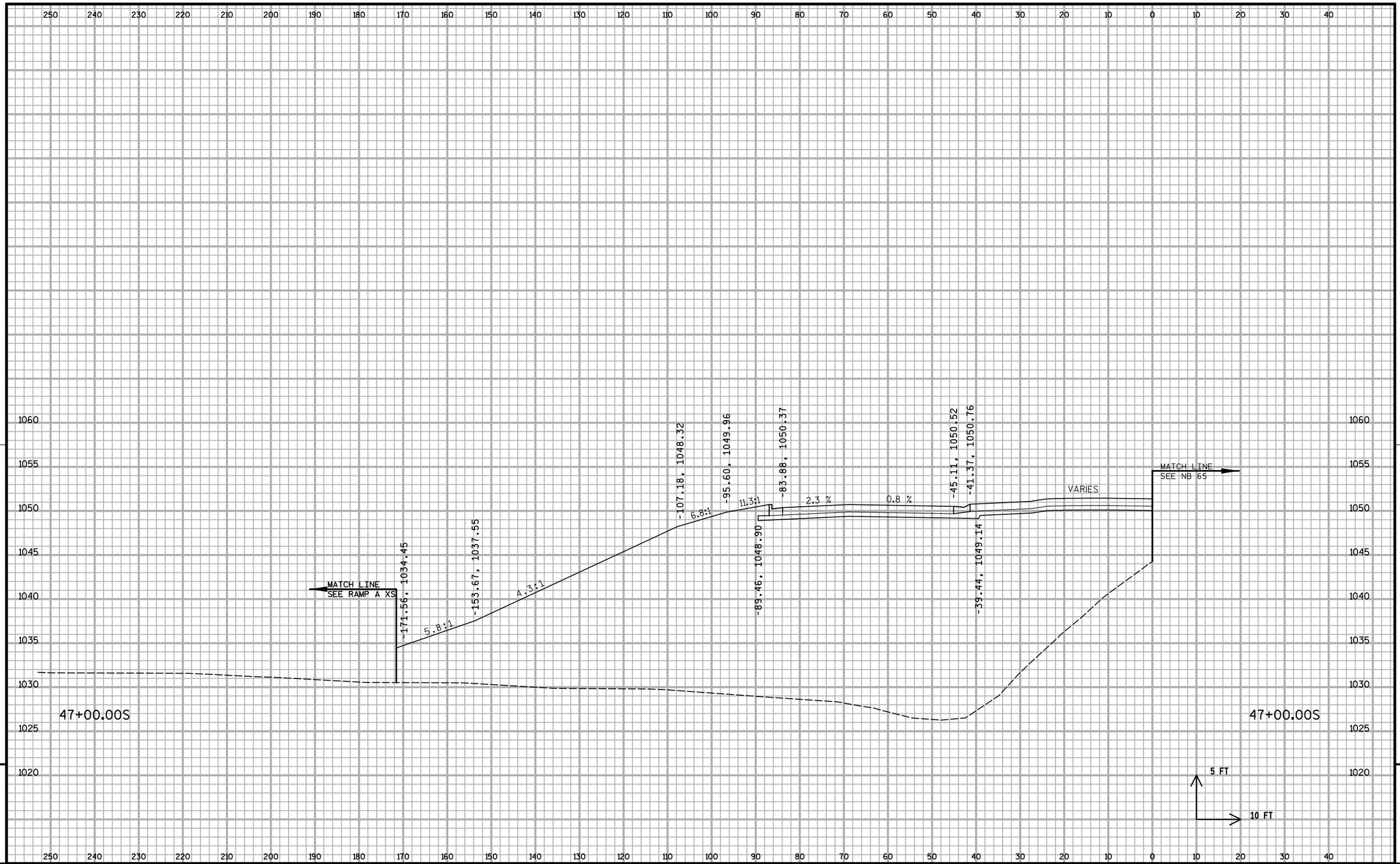


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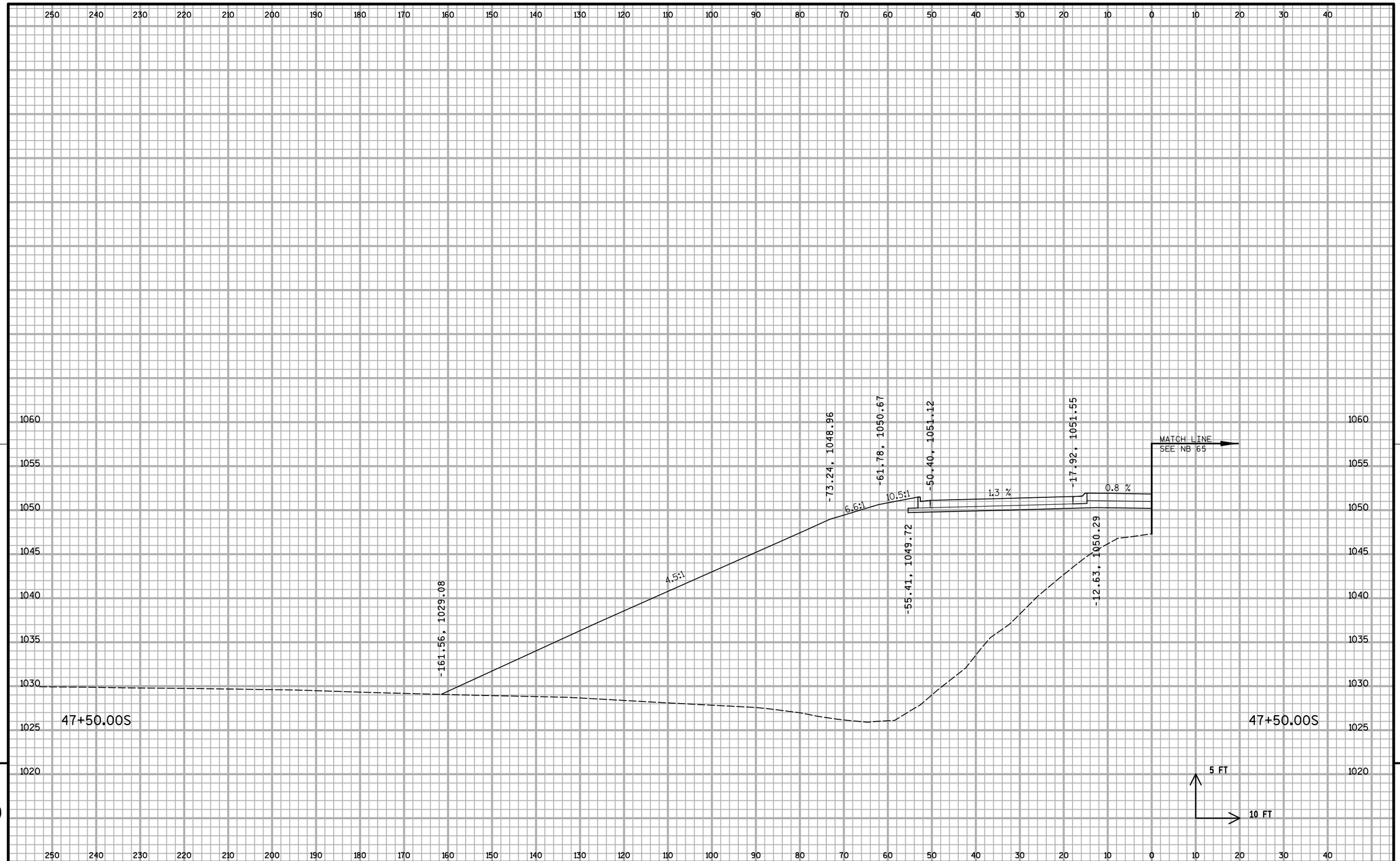
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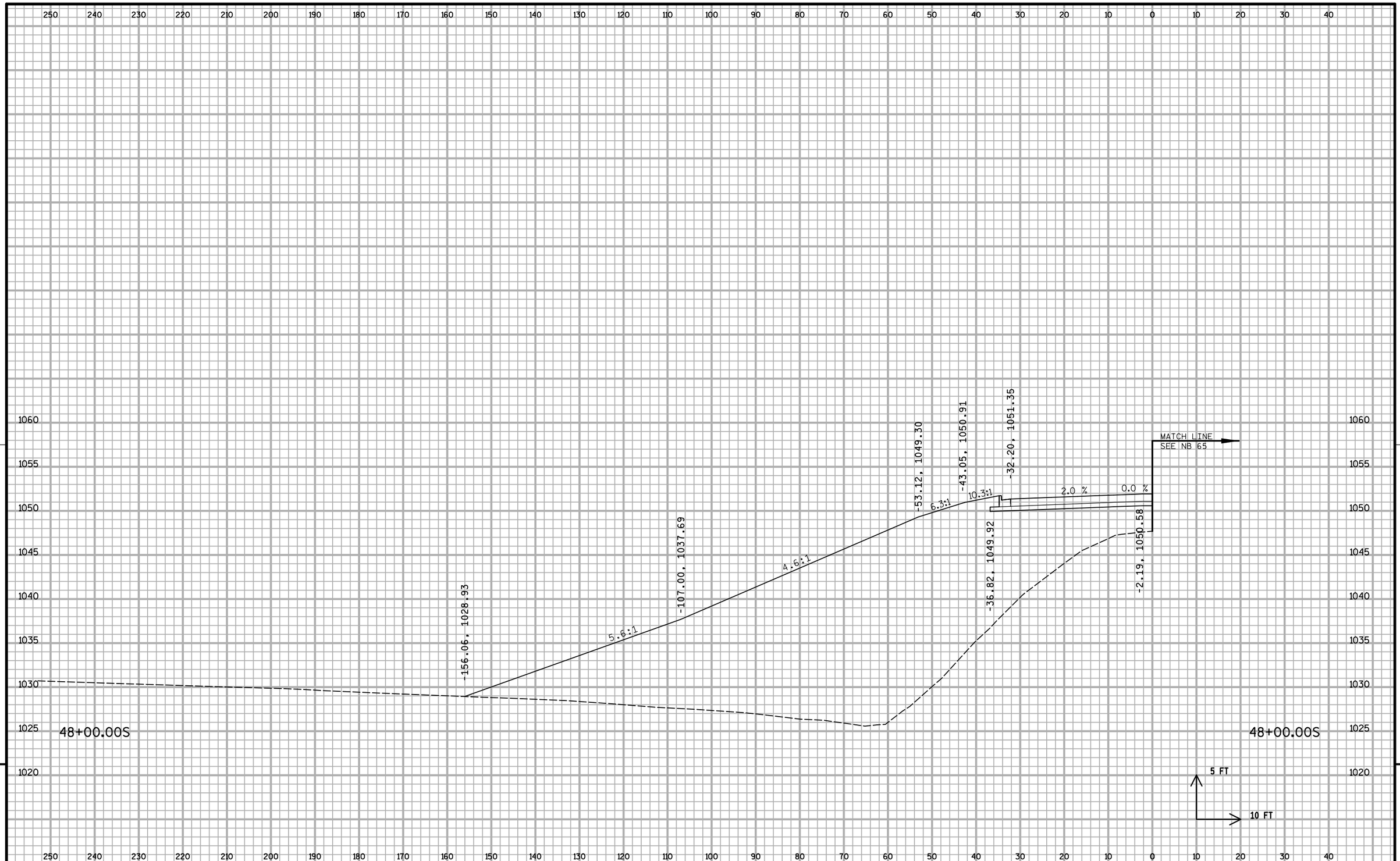
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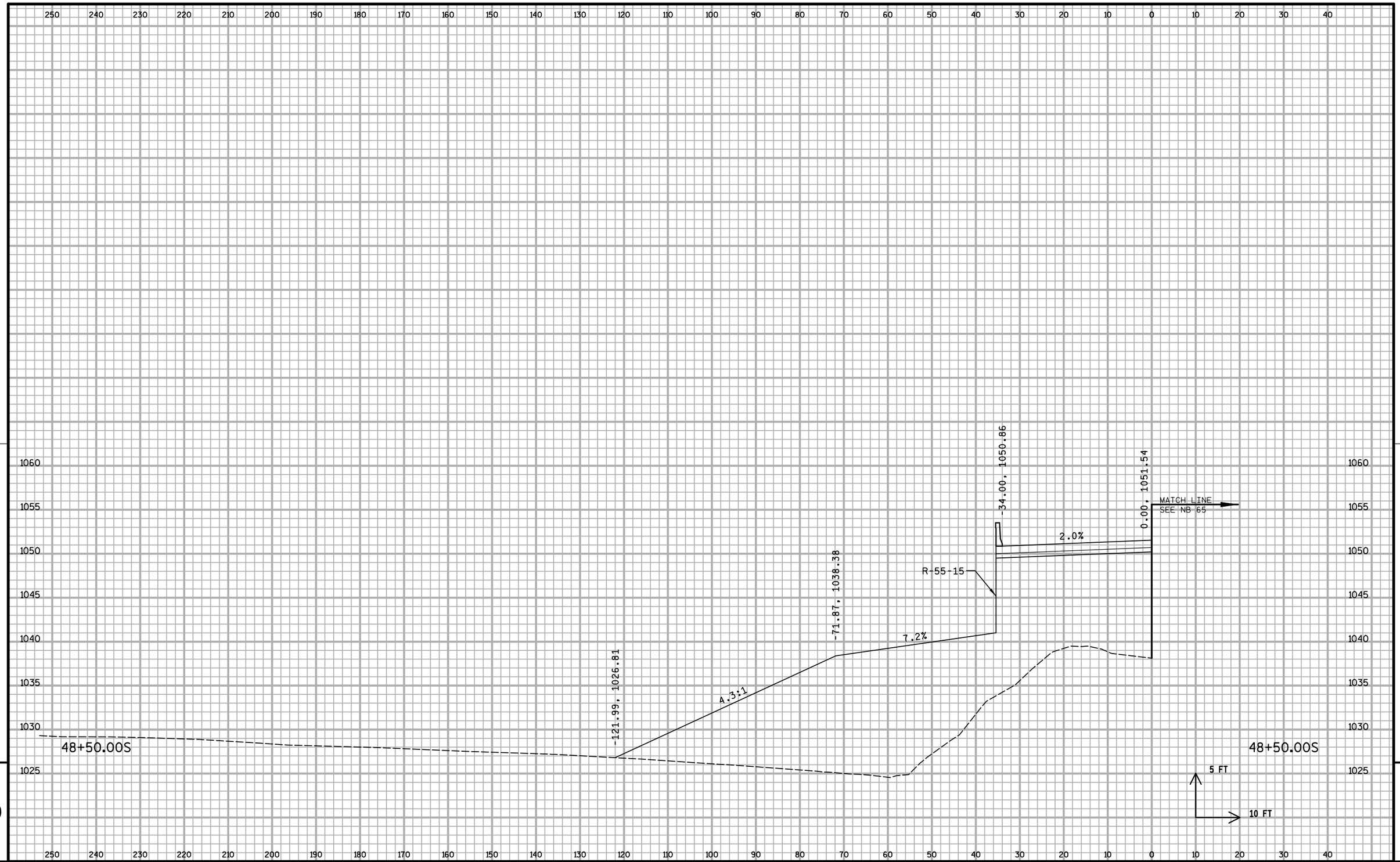
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: STH 65 (SB)	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090210_65xs_SB.dgn PLOT DATE : 1/5/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

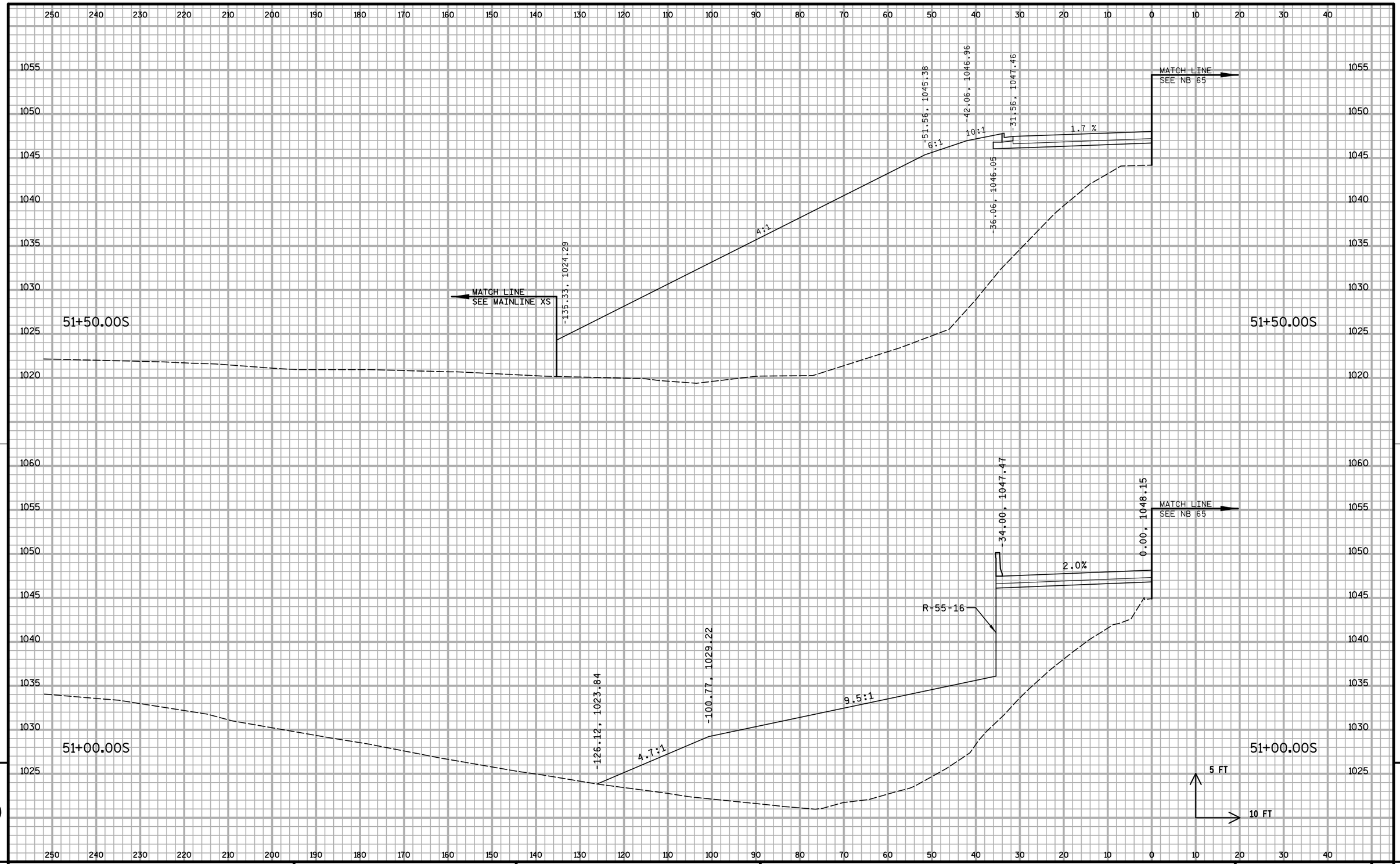


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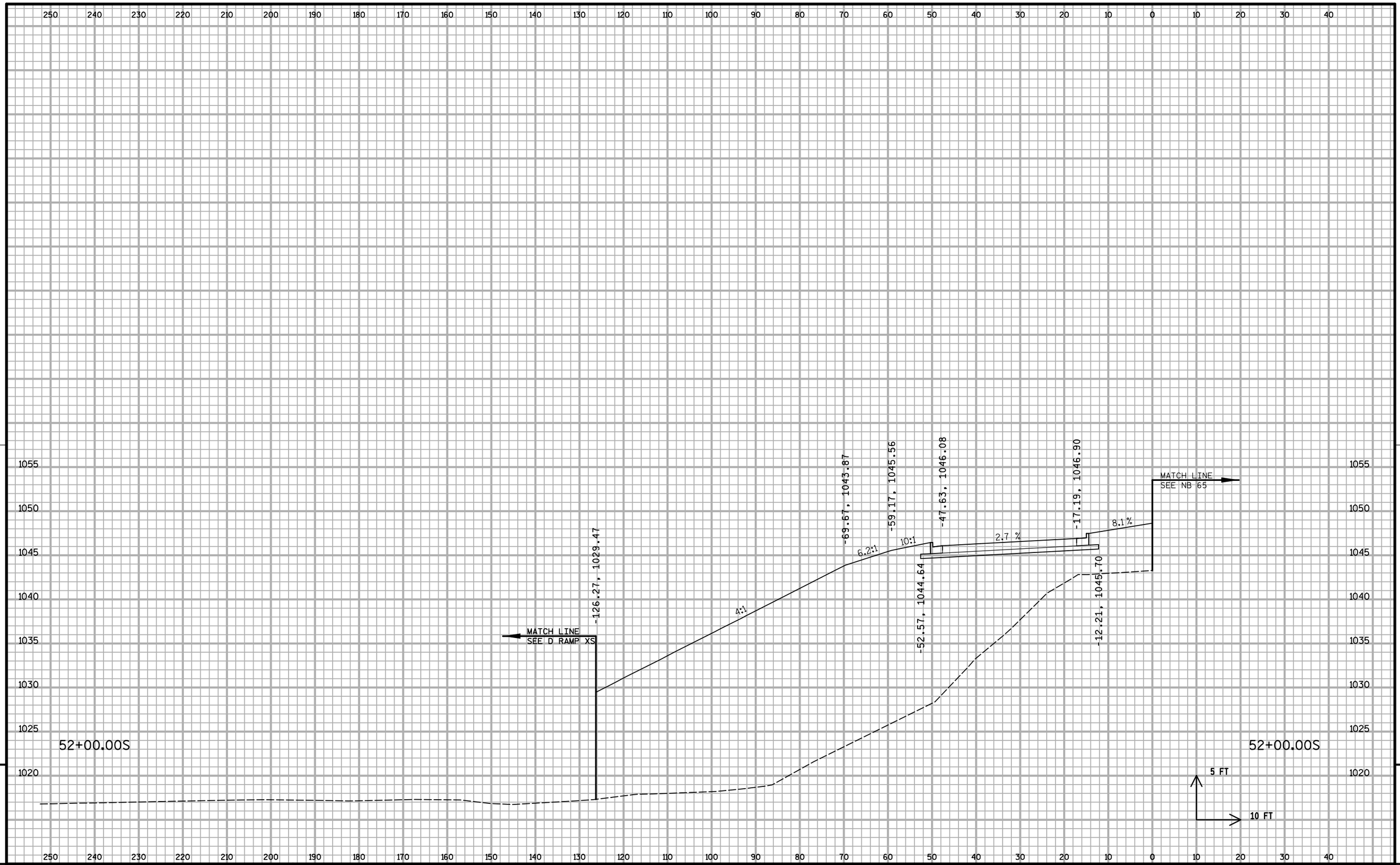
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: STH 65 (SB)	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090210_65xs_SB.dgn PLOT DATE : 1/5/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: STH 65 (SB)	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090210_65xs_SB.dgn PLOT DATE : 1/5/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



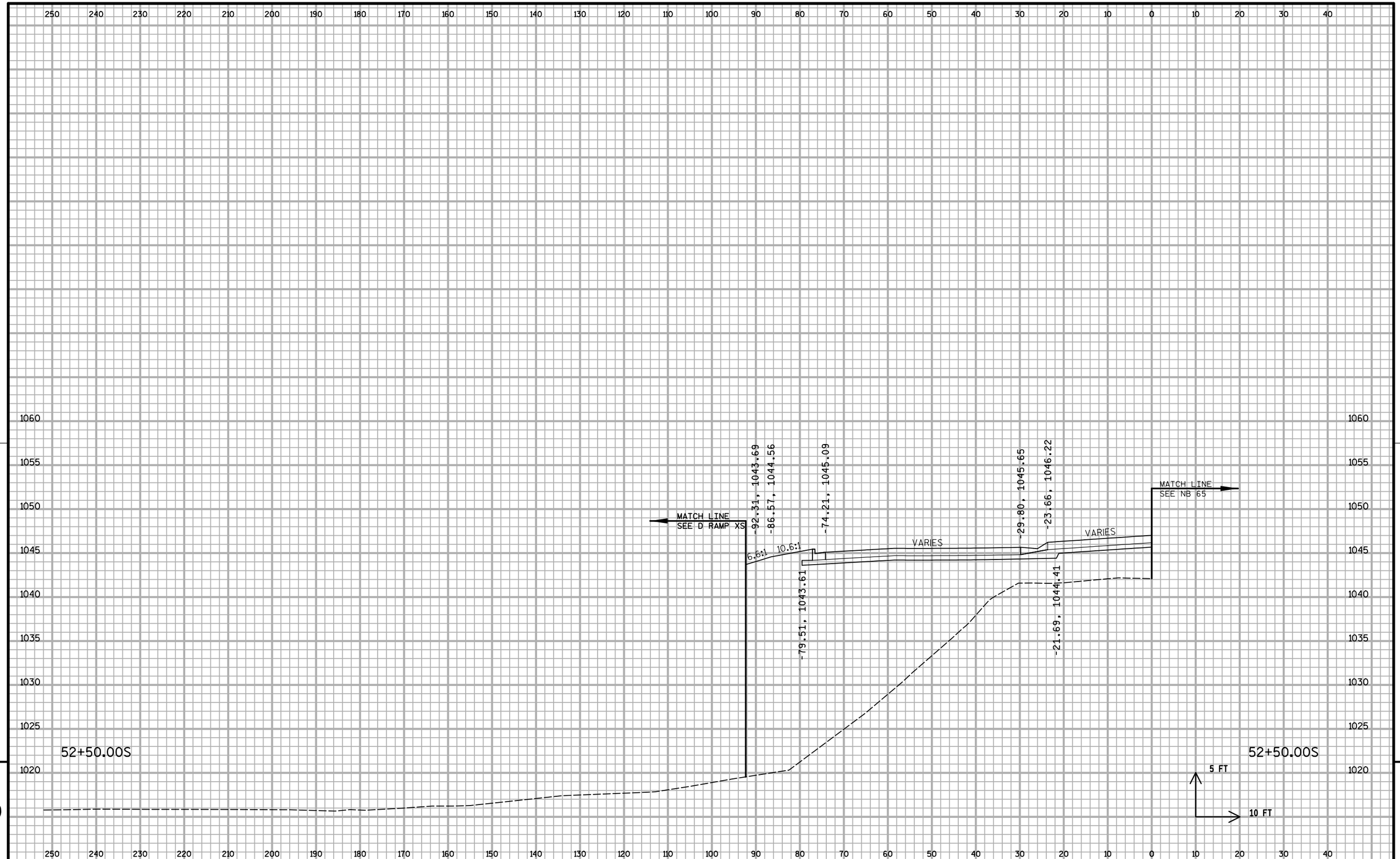
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: STH 65 (SB)	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090210_65xs_SB.dgn PLOT DATE : 1/5/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

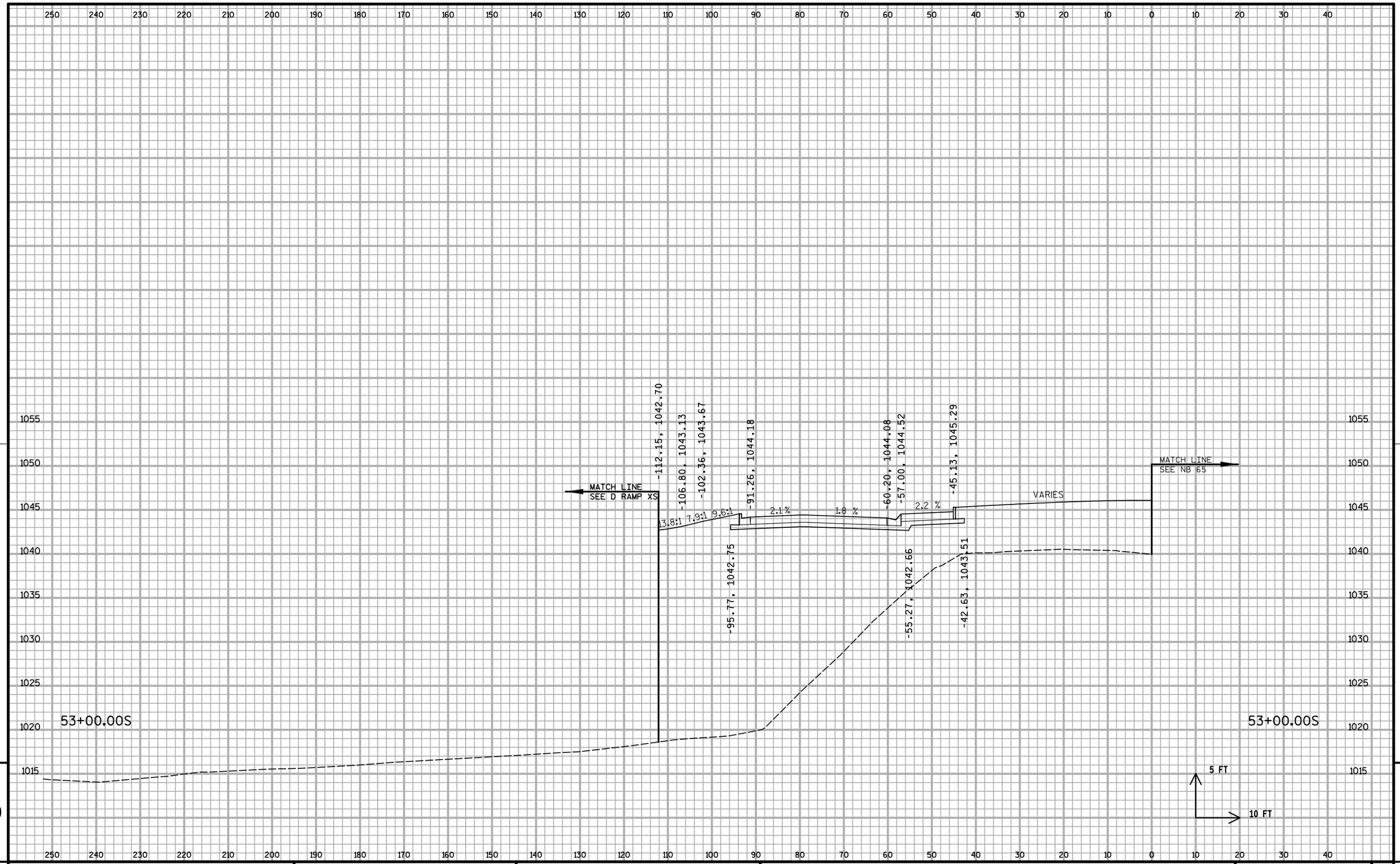


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: STH 65 (SB)	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090210_65xs_SB.dgn PLOT DATE : 1/5/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

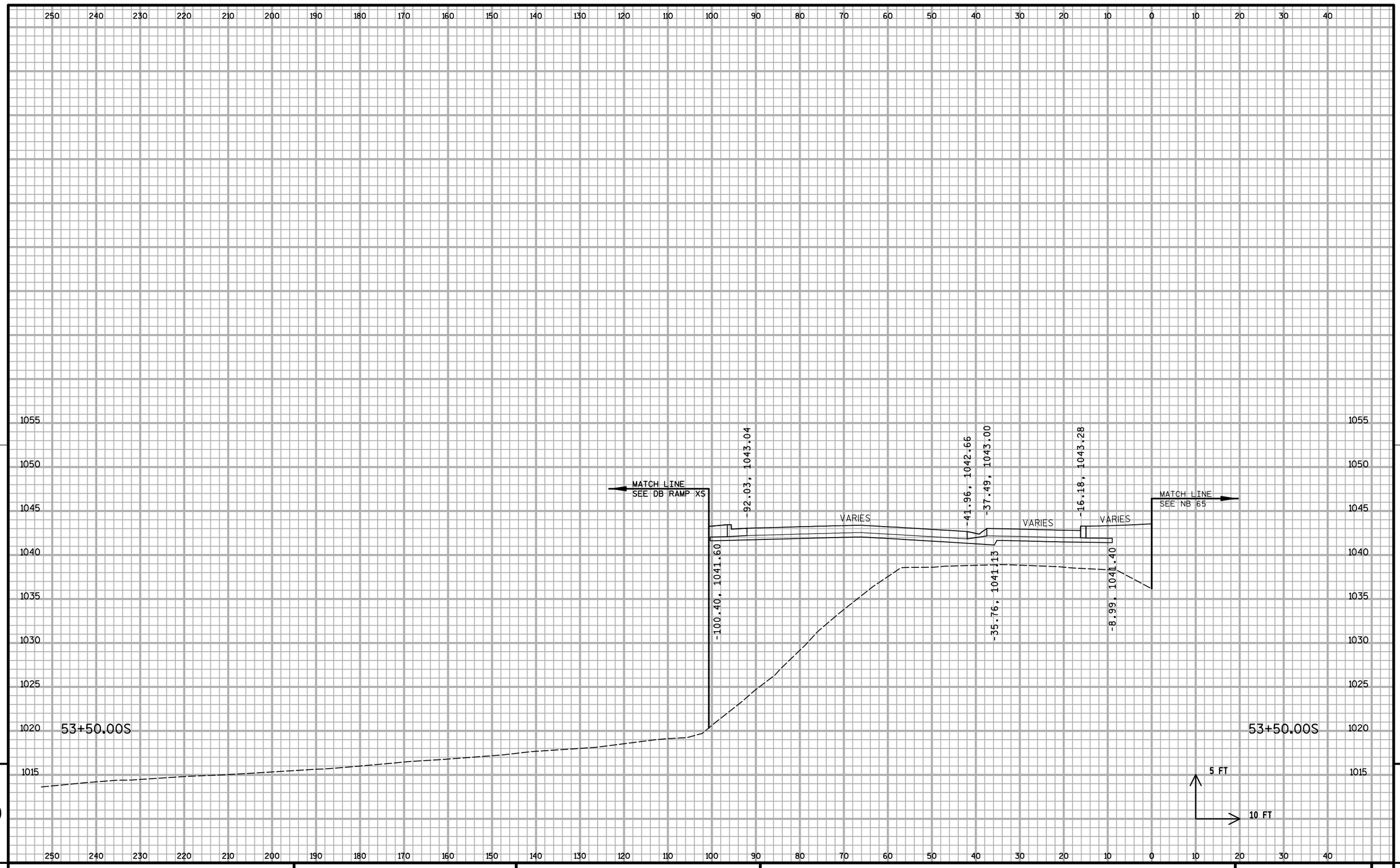


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: STH 65 (SB)	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090210_65xs_SB.dgn PLOT DATE : 1/5/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



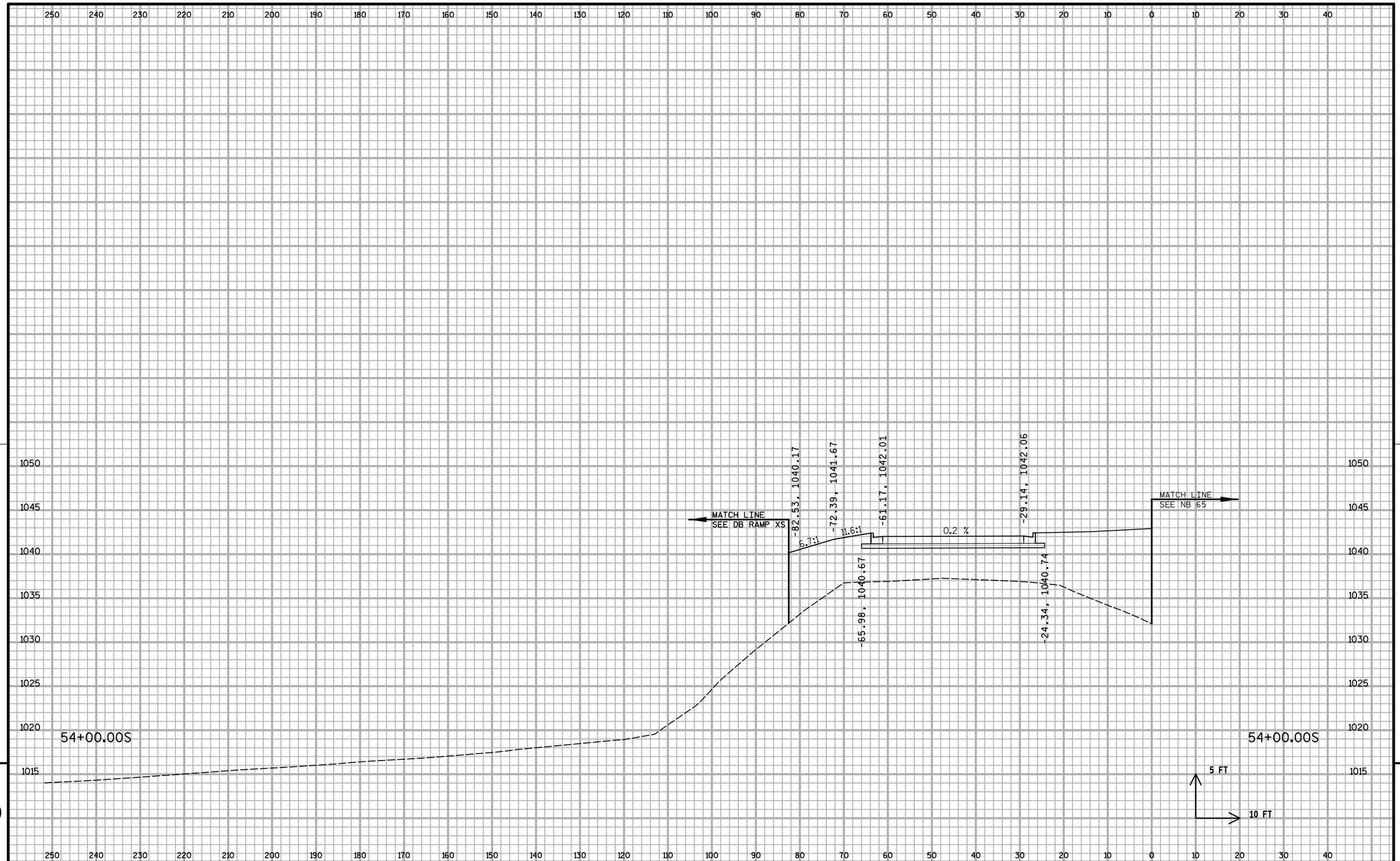
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: STH 65 (SB)	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090210_65xs_SB.dgn PLOT DATE : 1/5/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

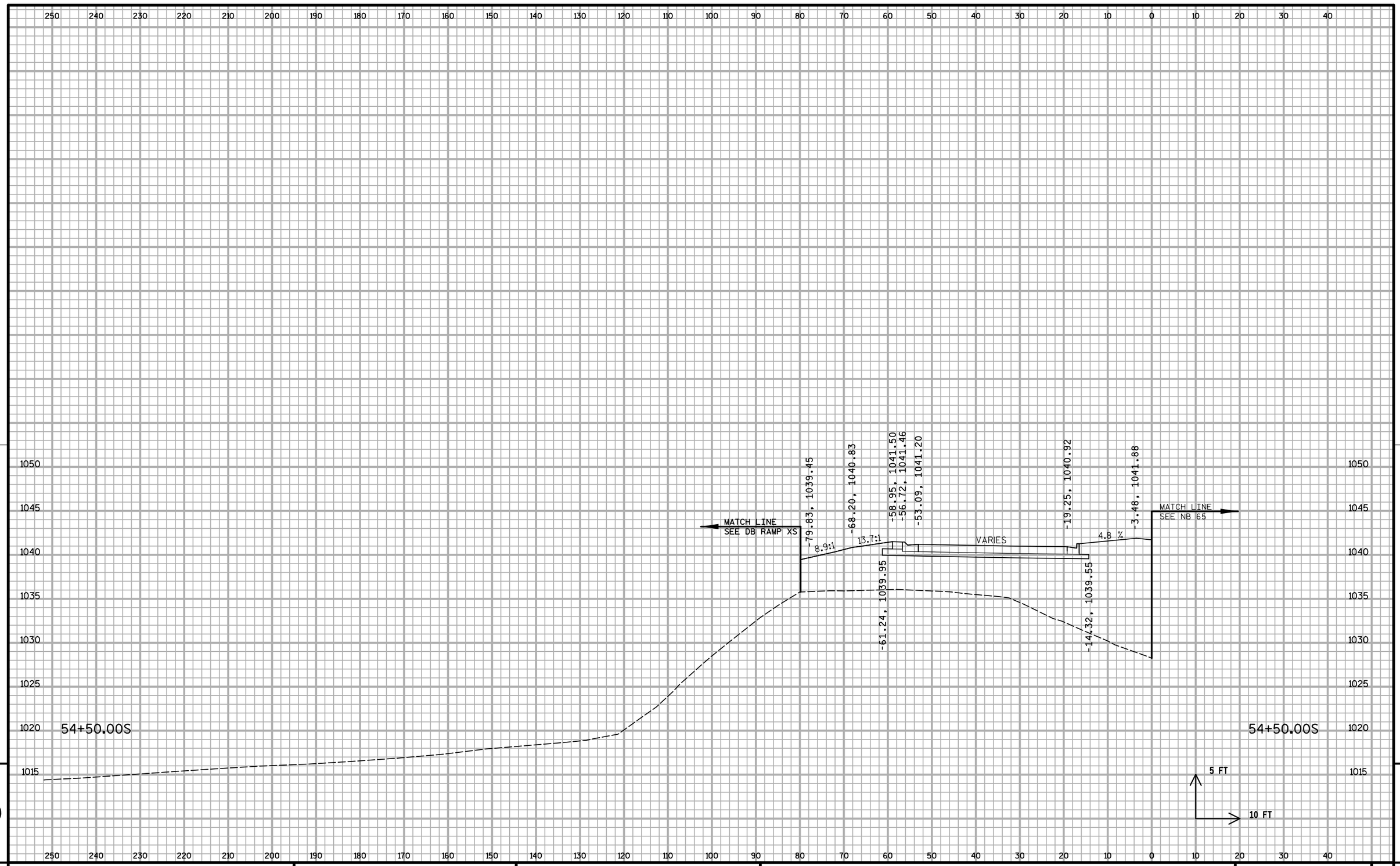
WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: STH 65 (SB)	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090210_65xs_SB.dgn PLOT DATE : 1/5/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

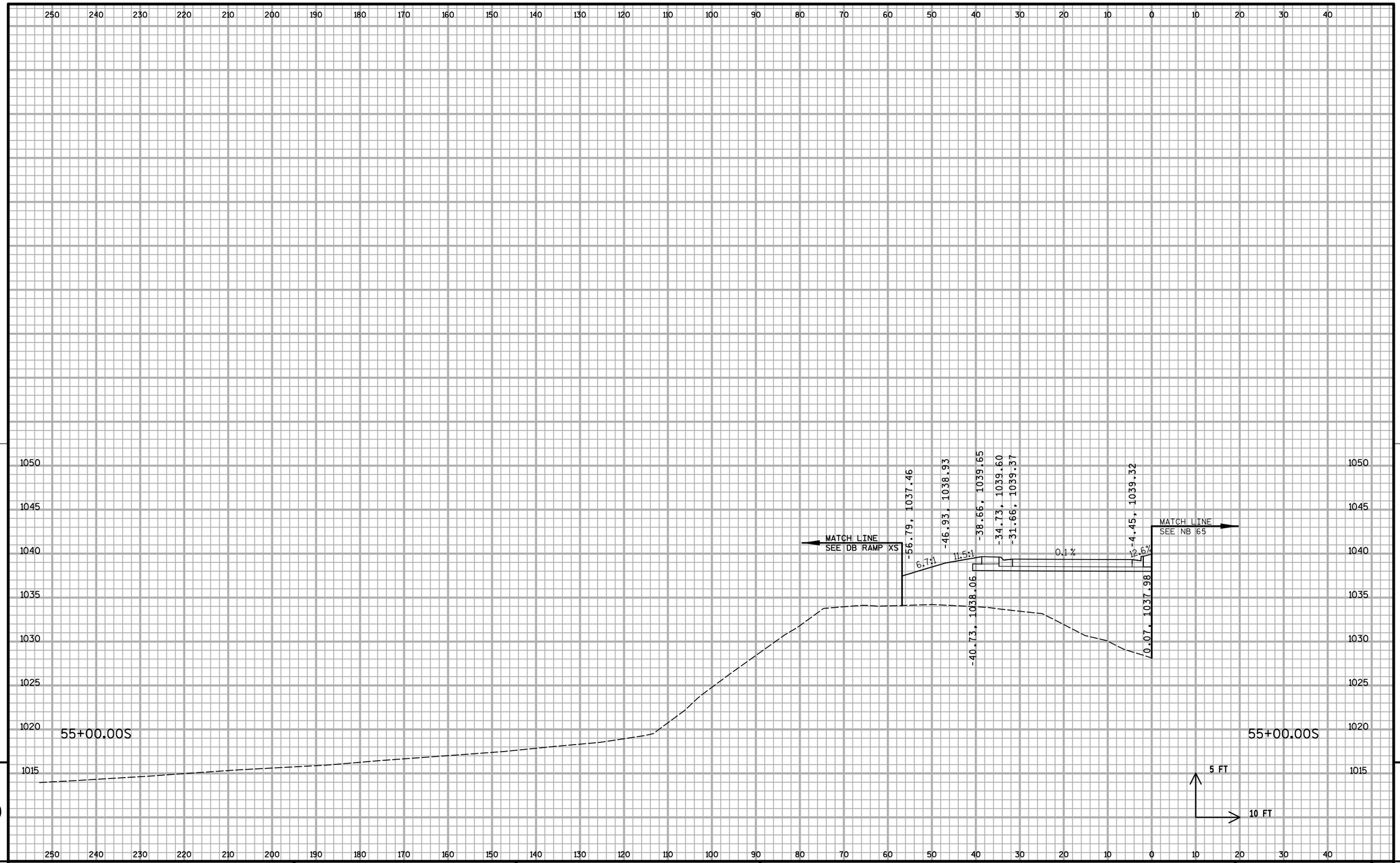


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: STH 65 (SB)	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090210_65xs_SB.dgn PLOT DATE : 1/5/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

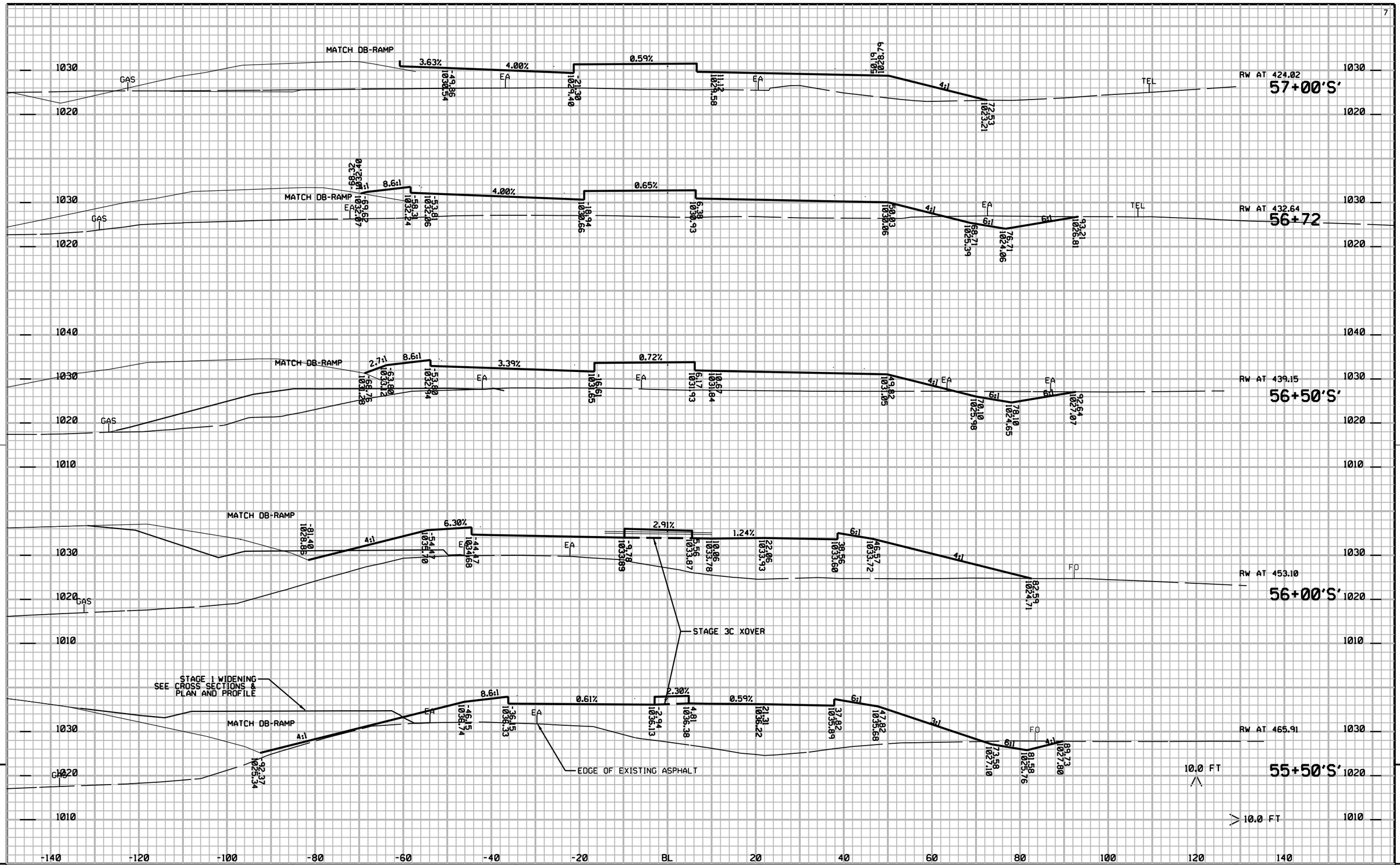


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: STH 65 (SB)	SHEET:	E

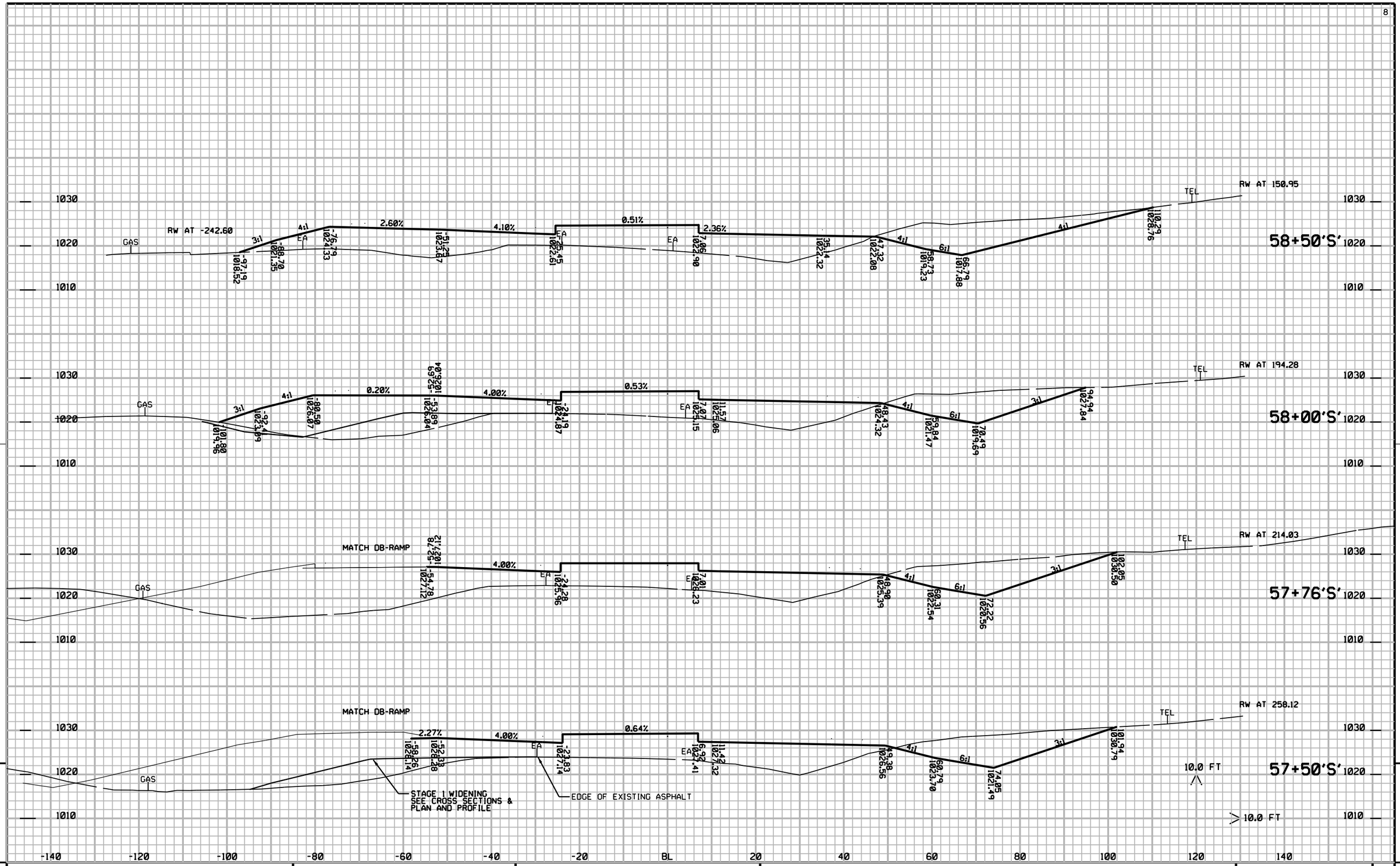
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PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: STH 65	SHEET NO: 965 E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090201_65XS.DGN PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 21



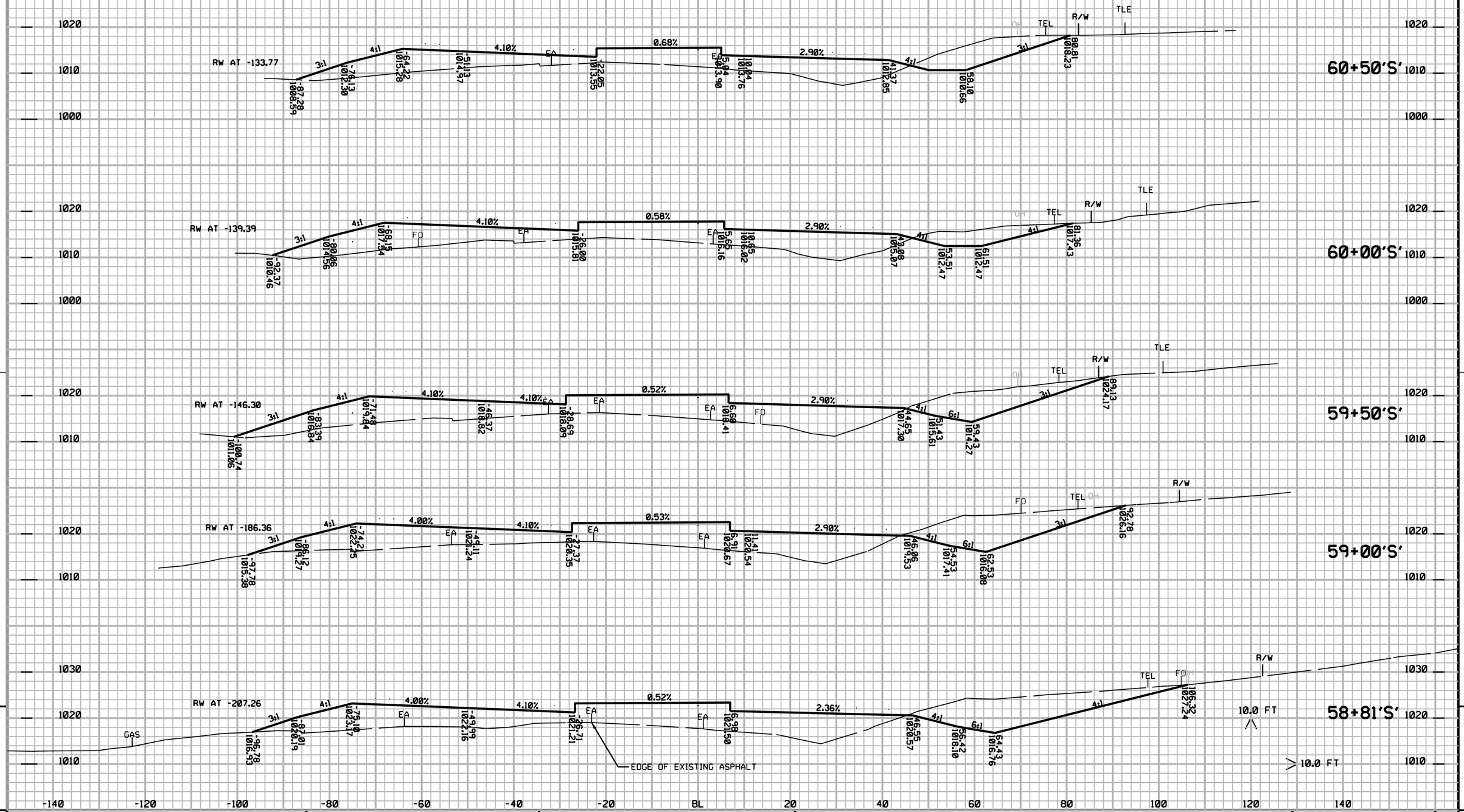
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PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: STH 65	SHEET NO: 966	E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090201_65XS.DGN PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

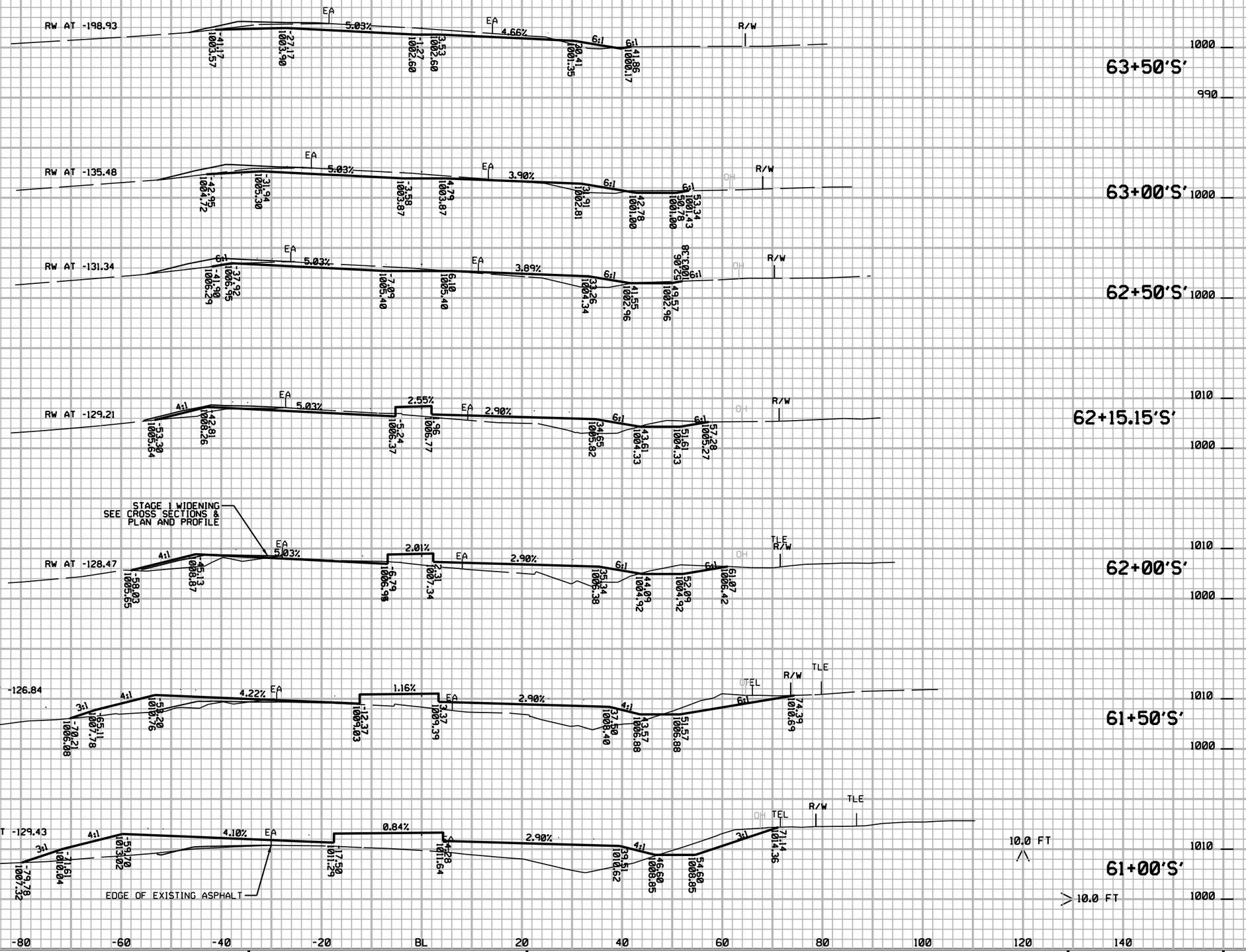
WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: STH 65	SHEET NO: 967	E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090201_65XS.DGN | PLOT DATE : 12/29/2011 | PLOT BY : KL Engineering | PLOT NAME : | PLOT SCALE :

WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: STH 65	SHEET NO: 968 E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090201_65XS.DGN | PLOT DATE : 12/29/2011 | PLOT BY : KL Engineering | PLOT NAME : | PLOT SCALE :

WISDOT/CADDS SHEET 21



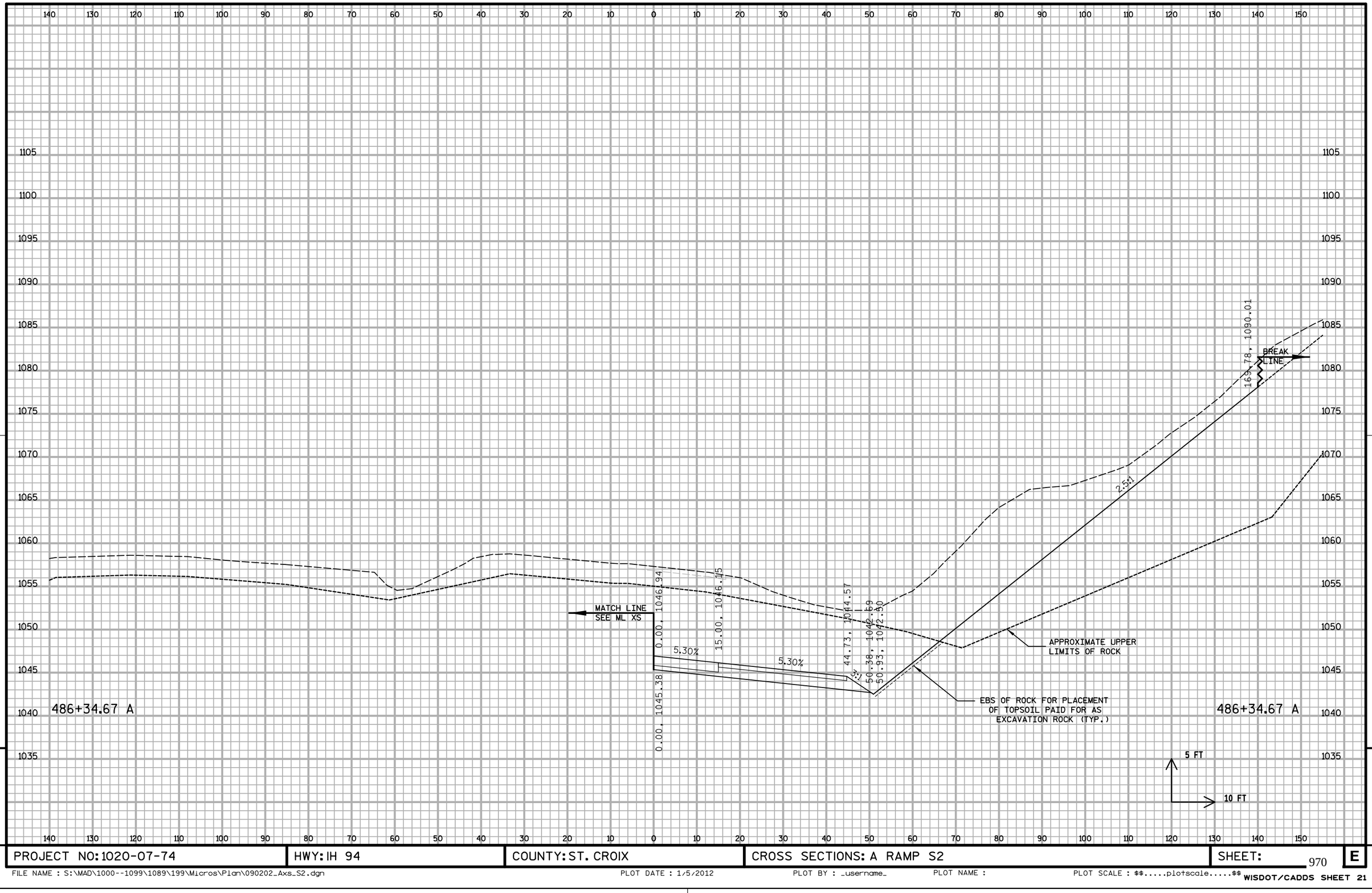
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PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: STH 65	SHEET NO: 969	E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090201_65XS.DGN PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 21



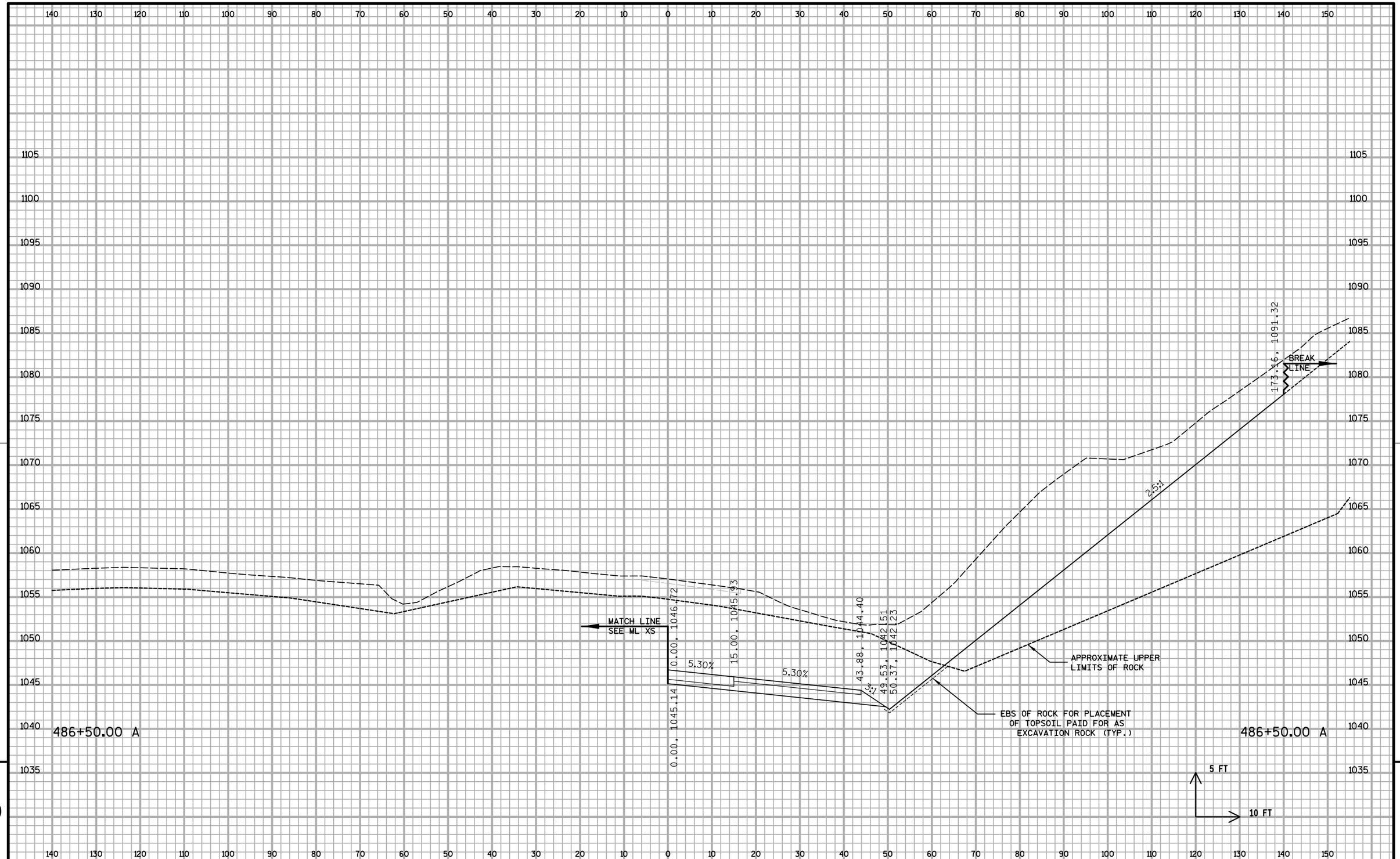
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: A RAMP S2	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090202_Axs_S2.dgn PLOT DATE : 1/5/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

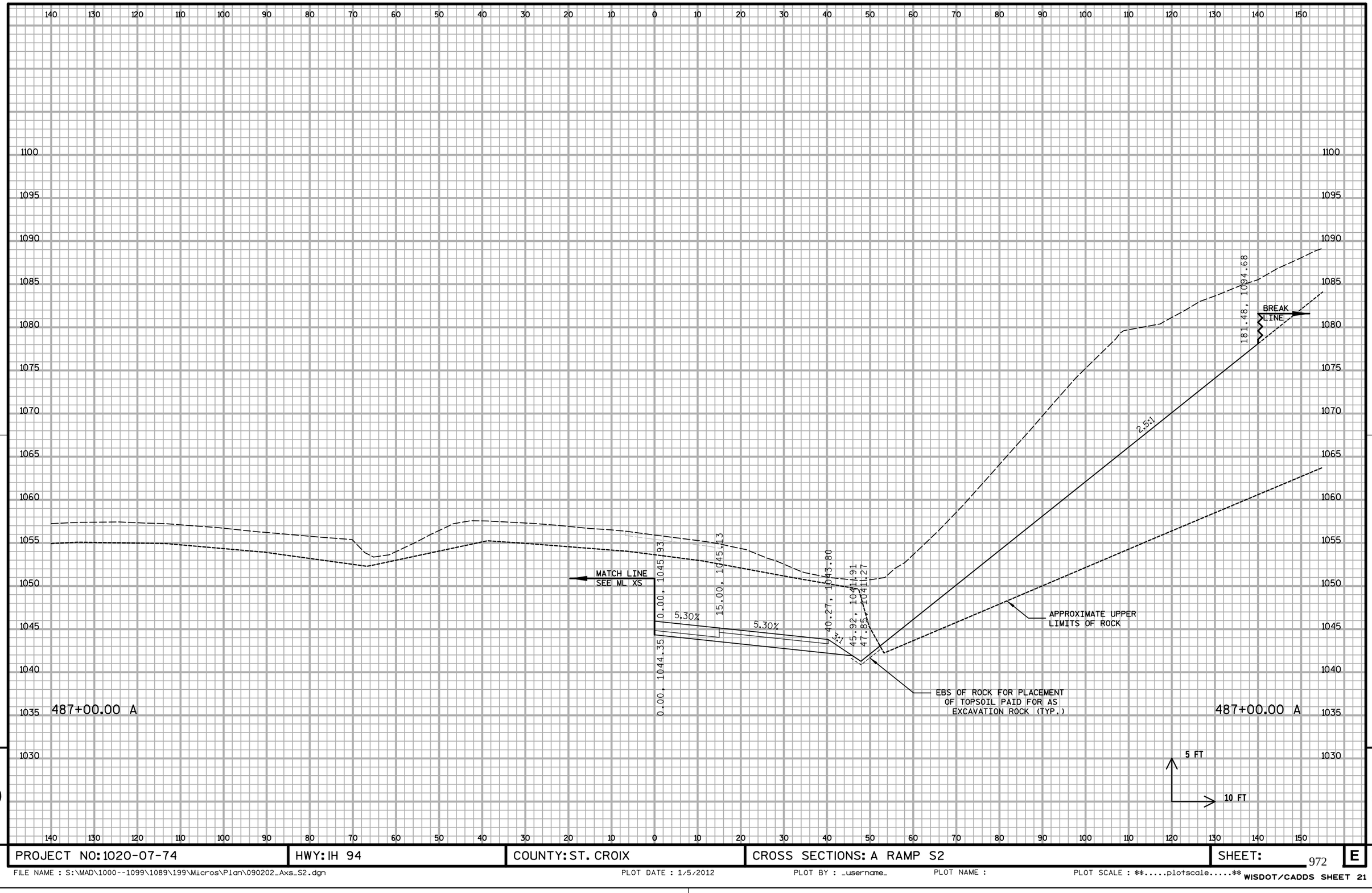


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: A RAMP S2	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090202_Axs_S2.dgn PLOT DATE : 1/5/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

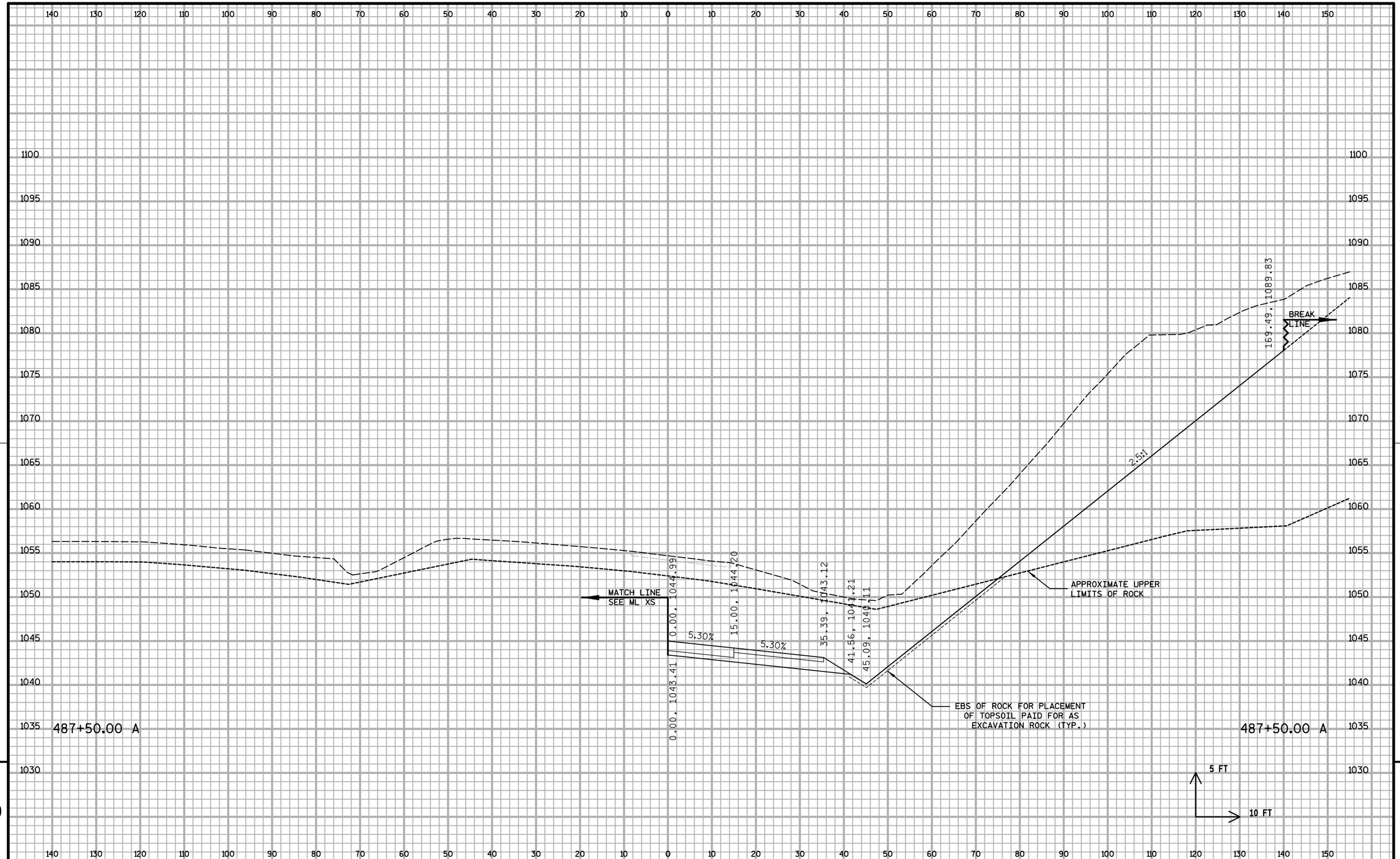


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: A RAMP S2	SHEET:	E

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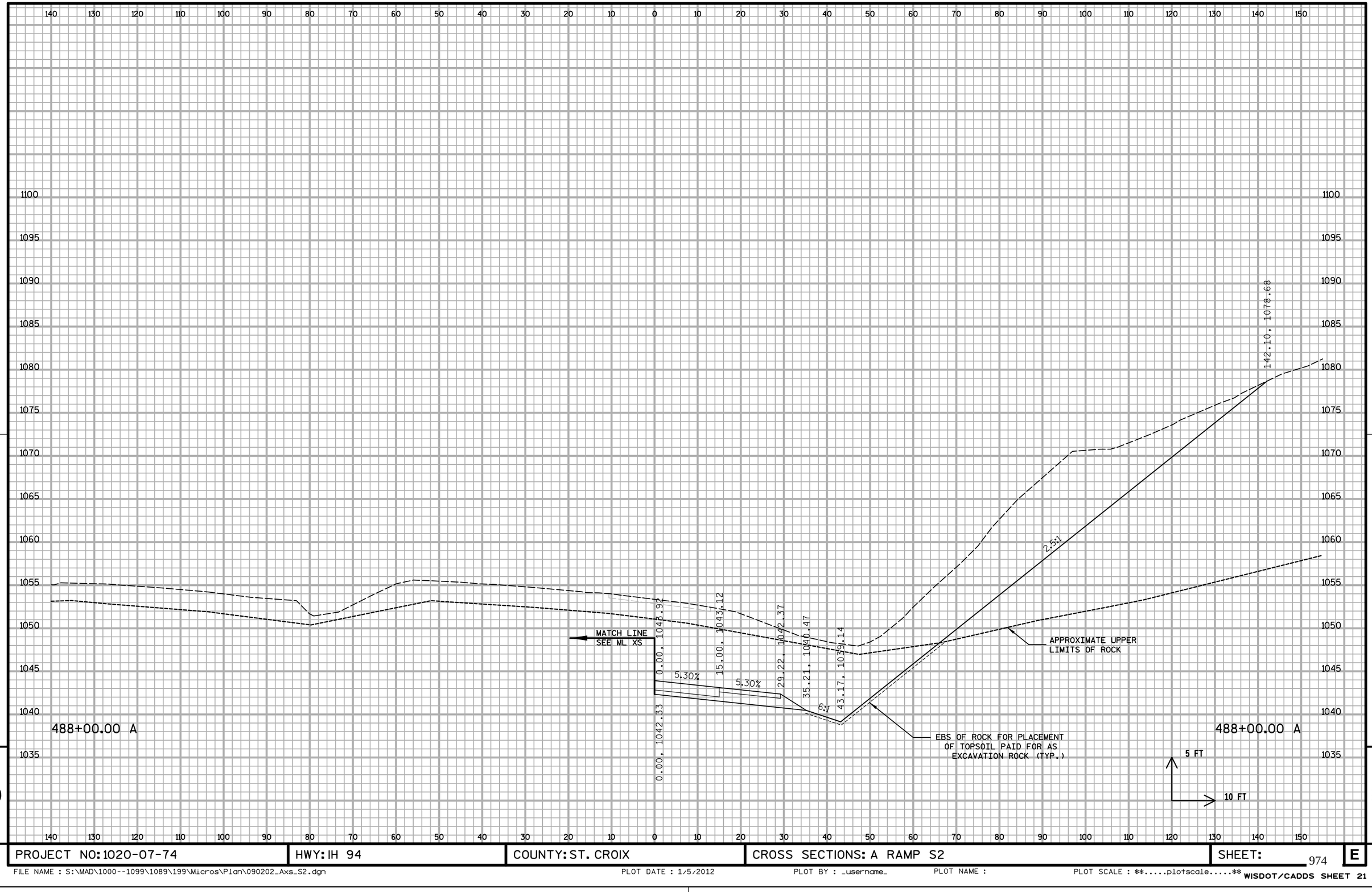


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: A RAMP S2	SHEET:	E

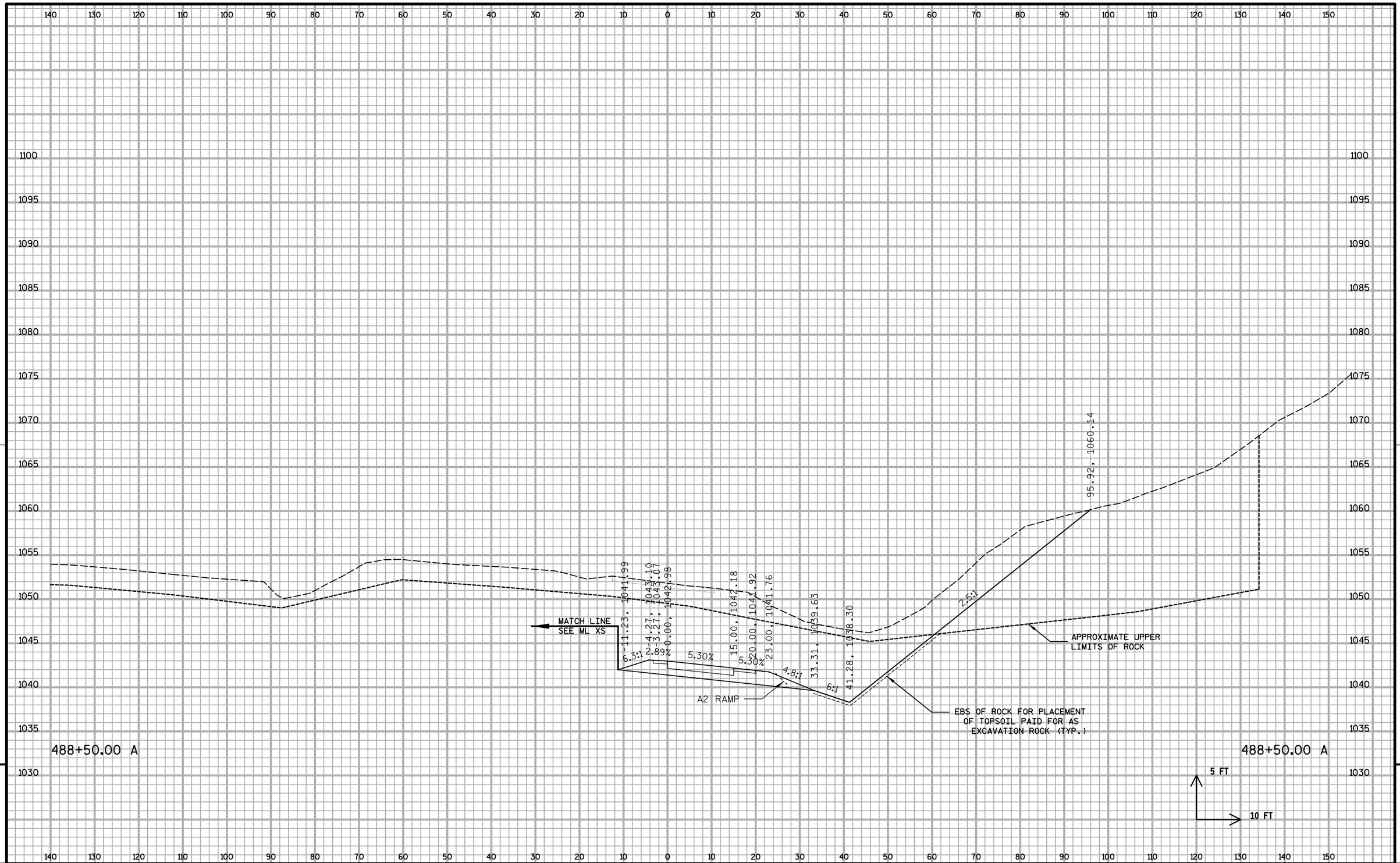
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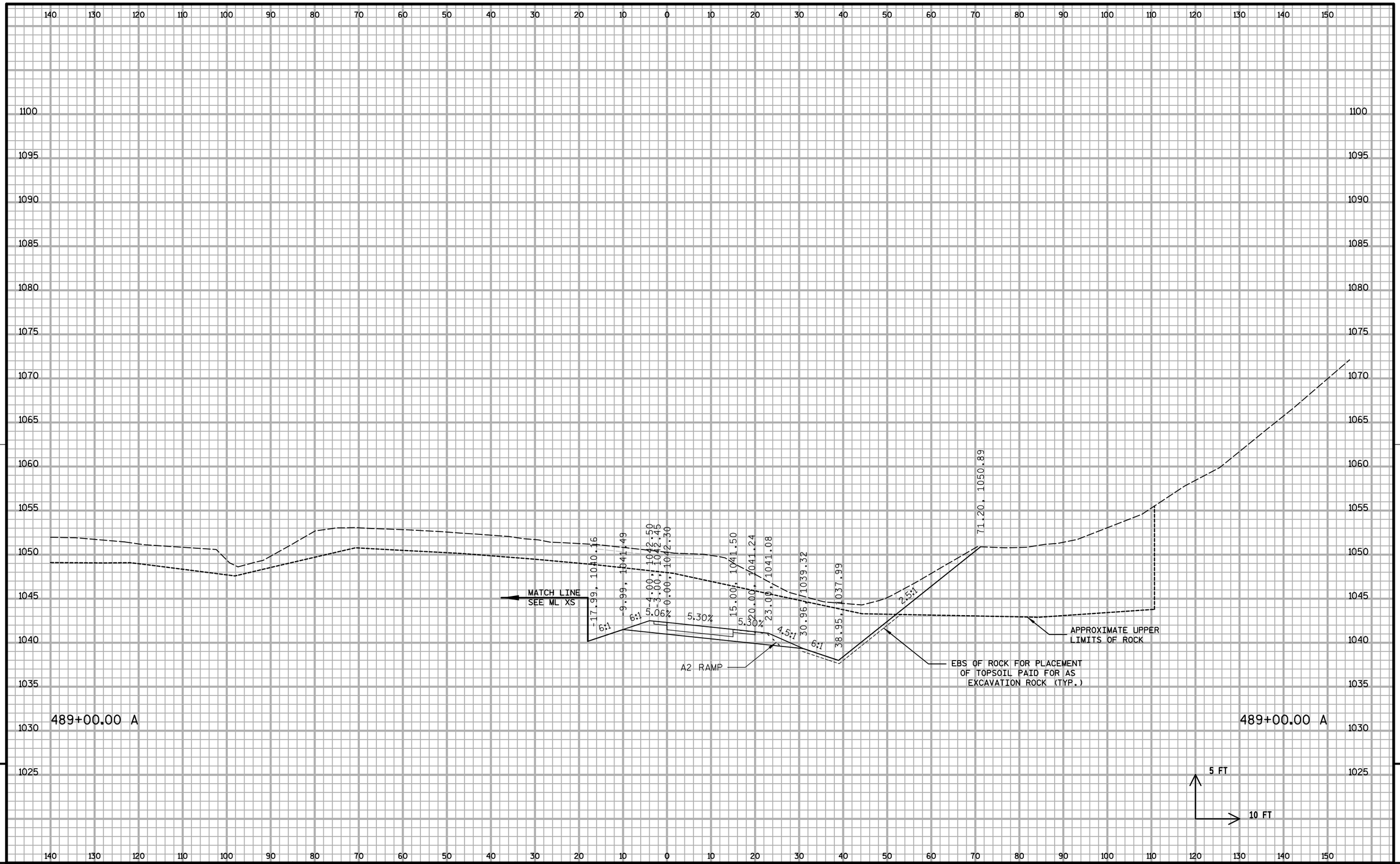
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: A RAMP S2	SHEET: 974	E



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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: A RAMP S2	SHEET: 975 E

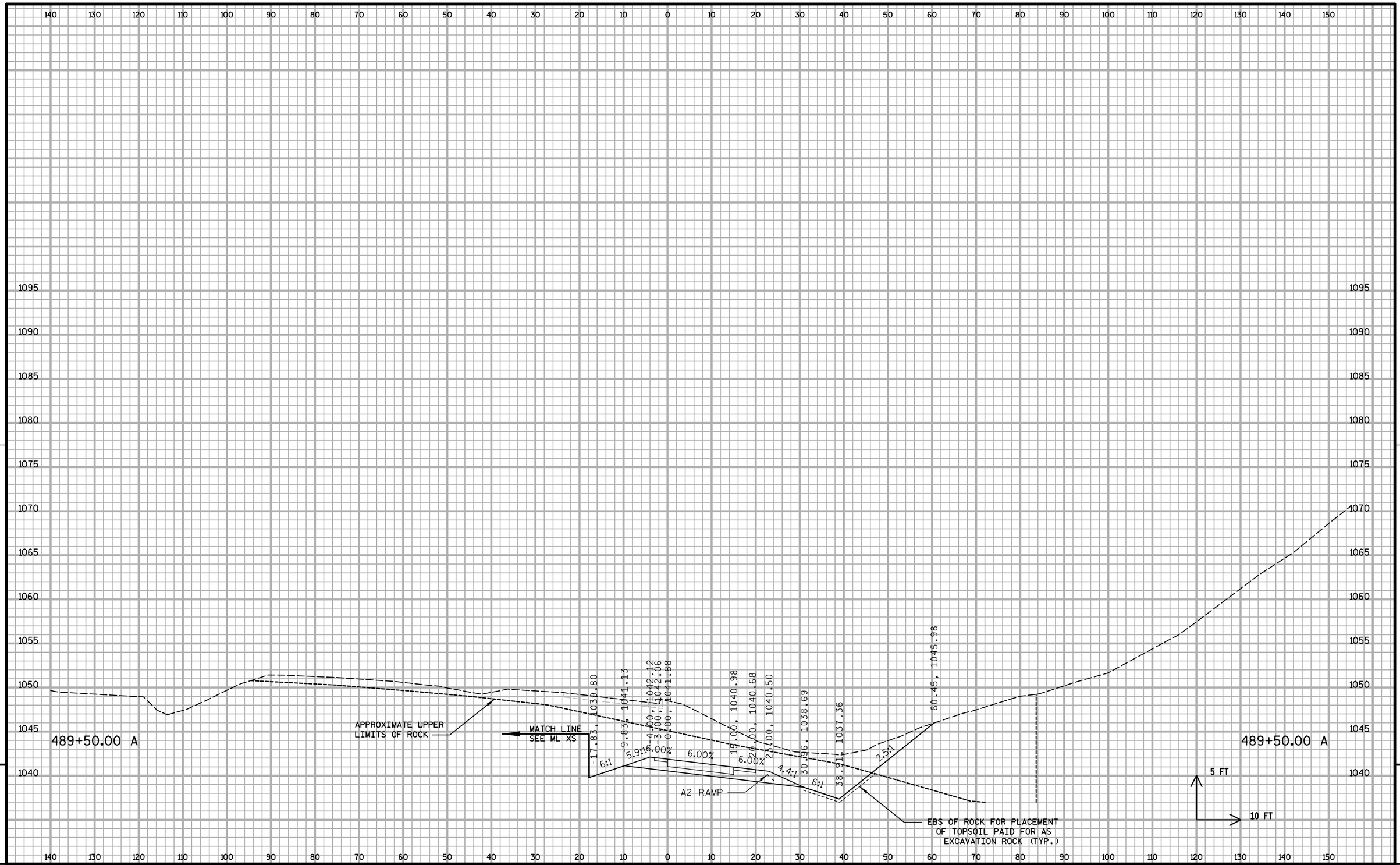
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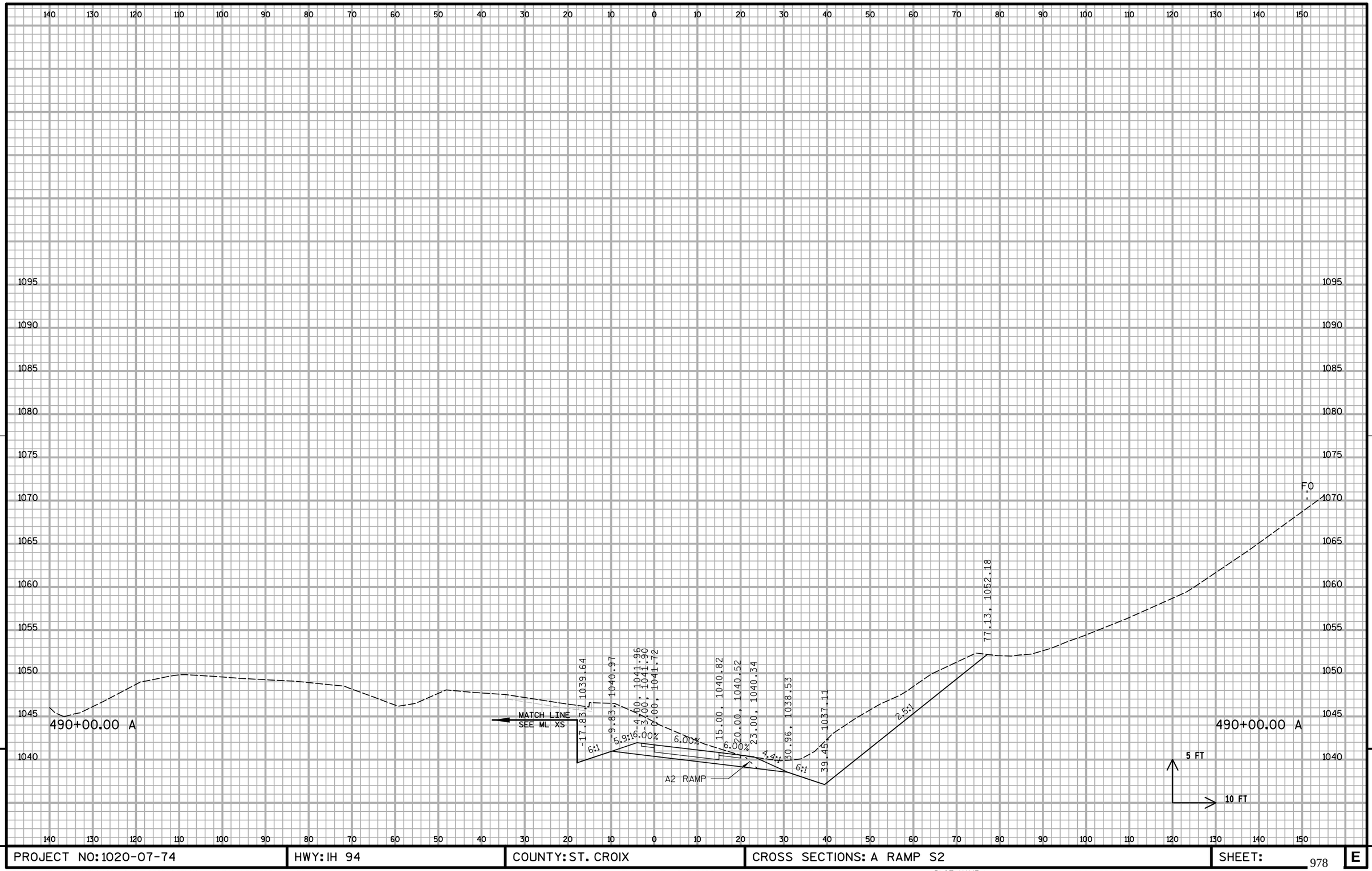
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: A RAMP S2	SHEET: 976	E



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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: A RAMP S2	SHEET:	E

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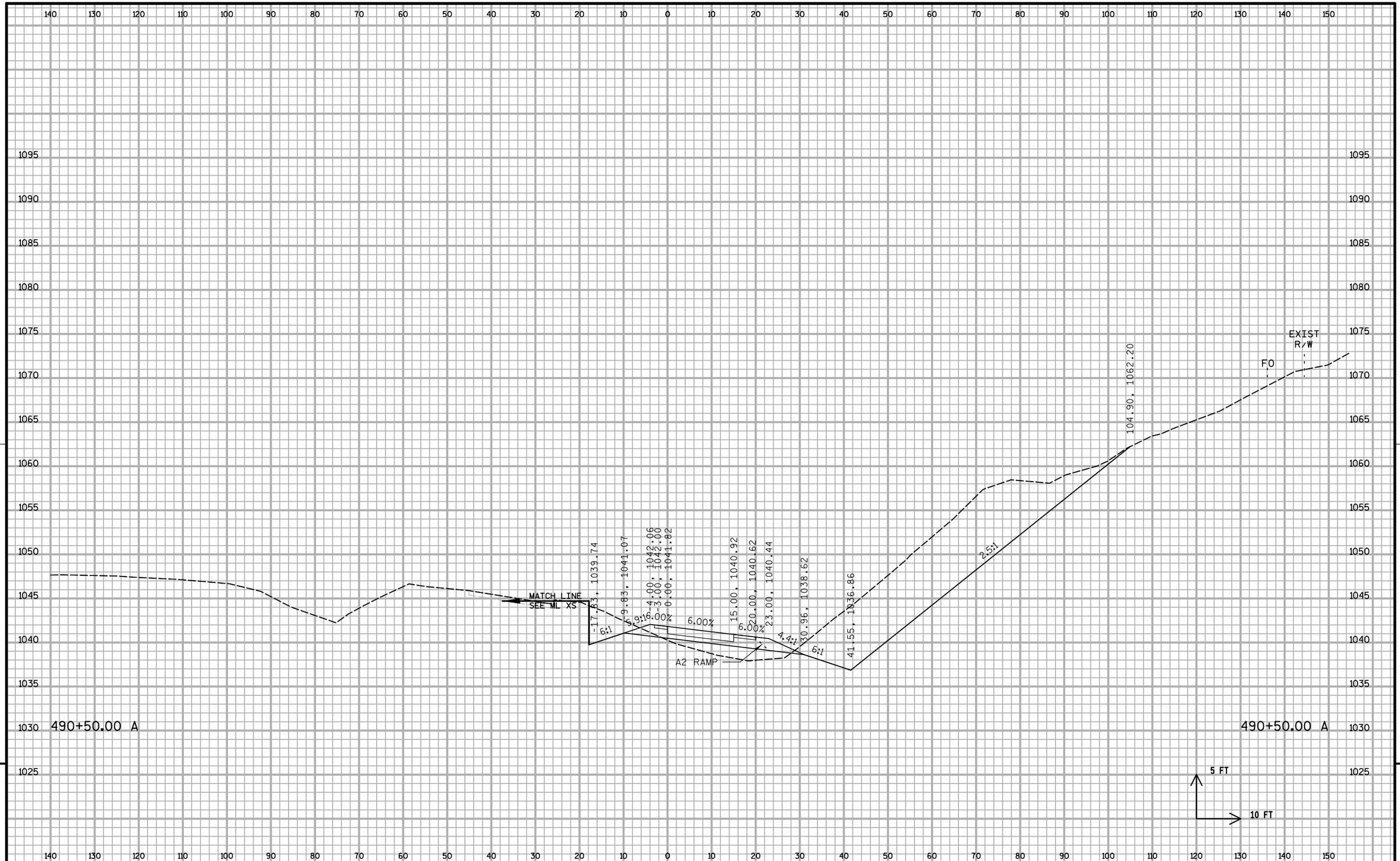
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: A RAMP S2	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090202_Axs_S2.dgn PLOT DATE : 1/5/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

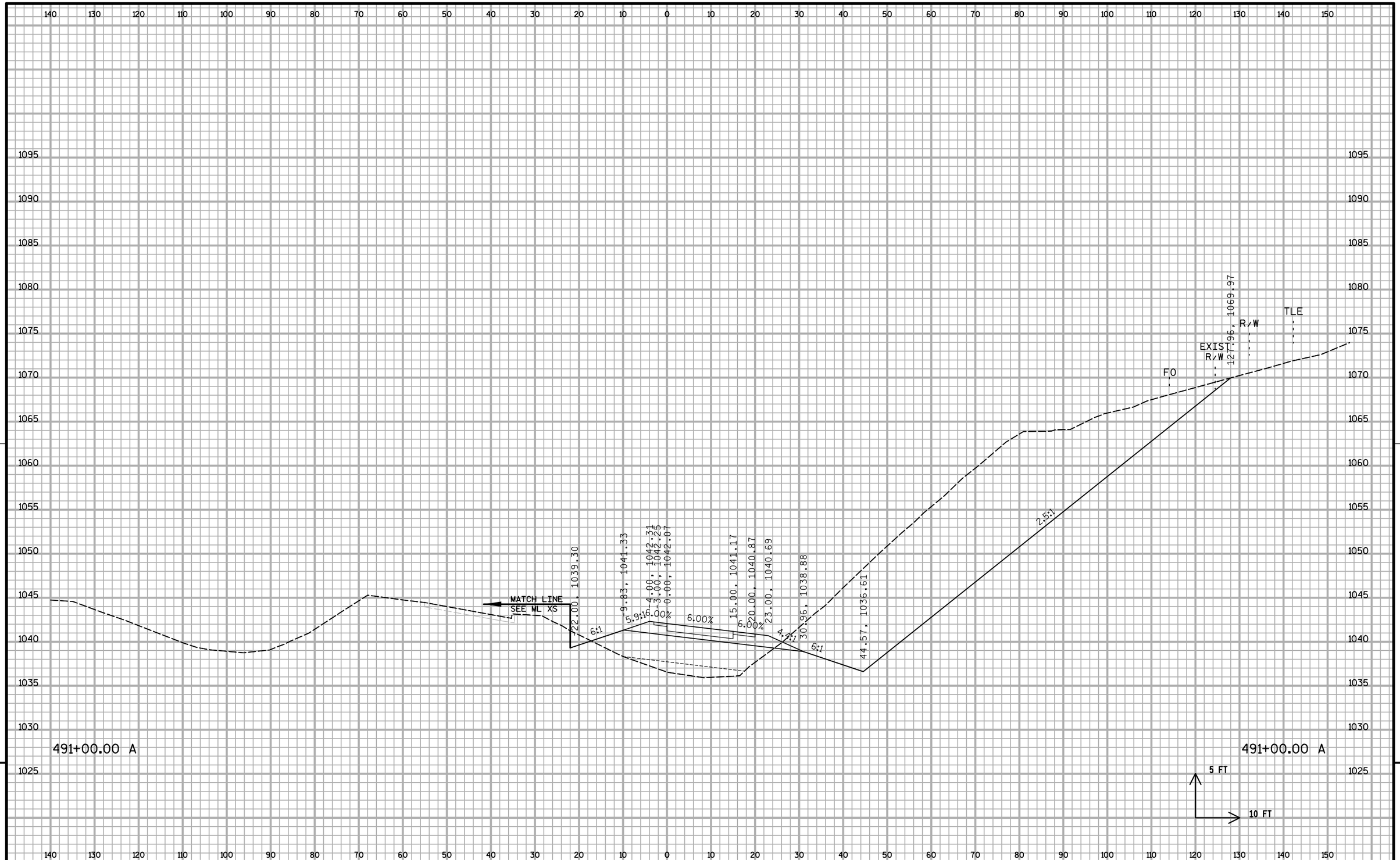


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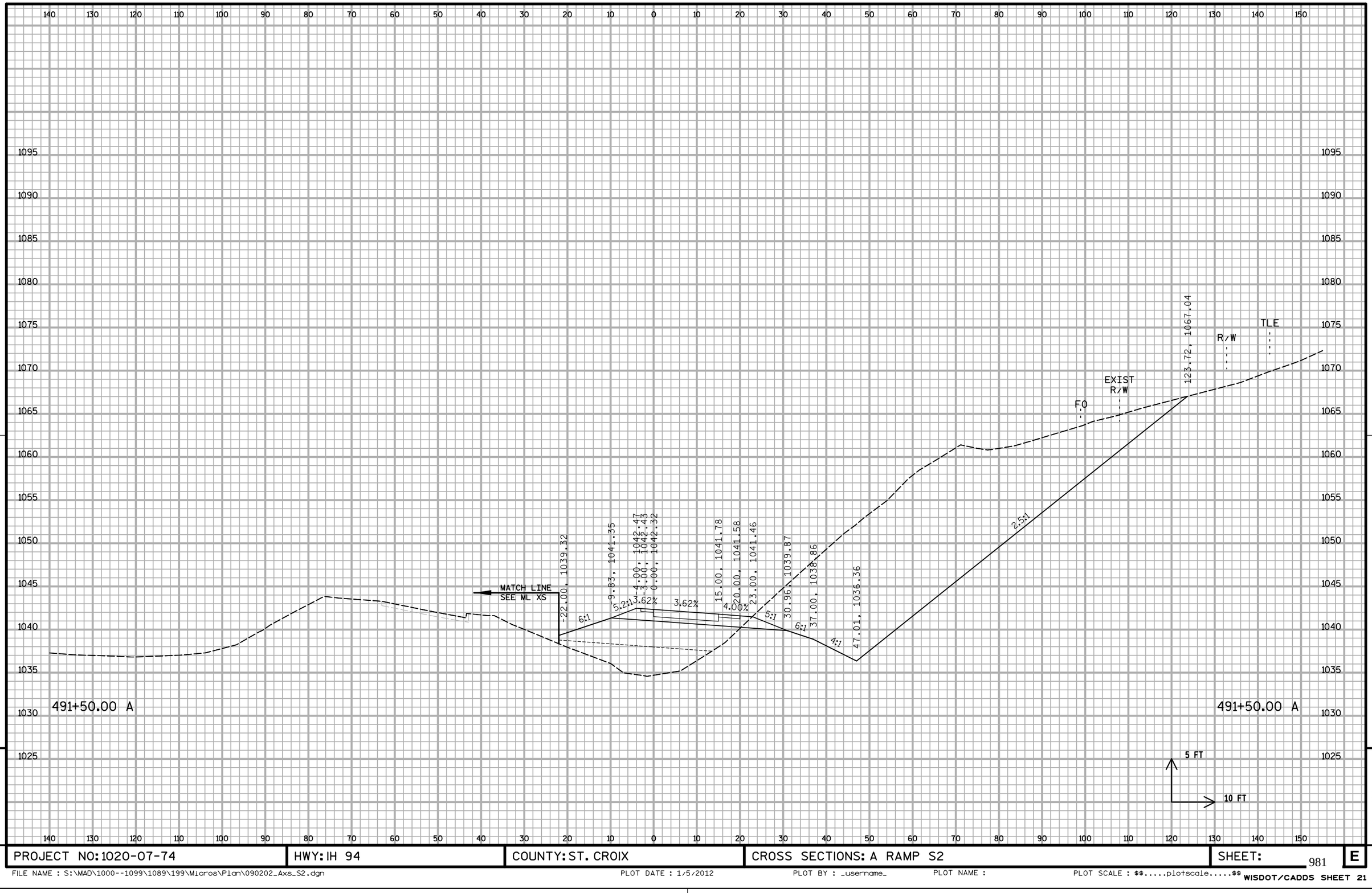
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090202_Axs_S2.dgn PLOT DATE : 1/5/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: A RAMP S2	SHEET: 980	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090202_Axs_S2.dgn PLOT DATE : 1/5/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

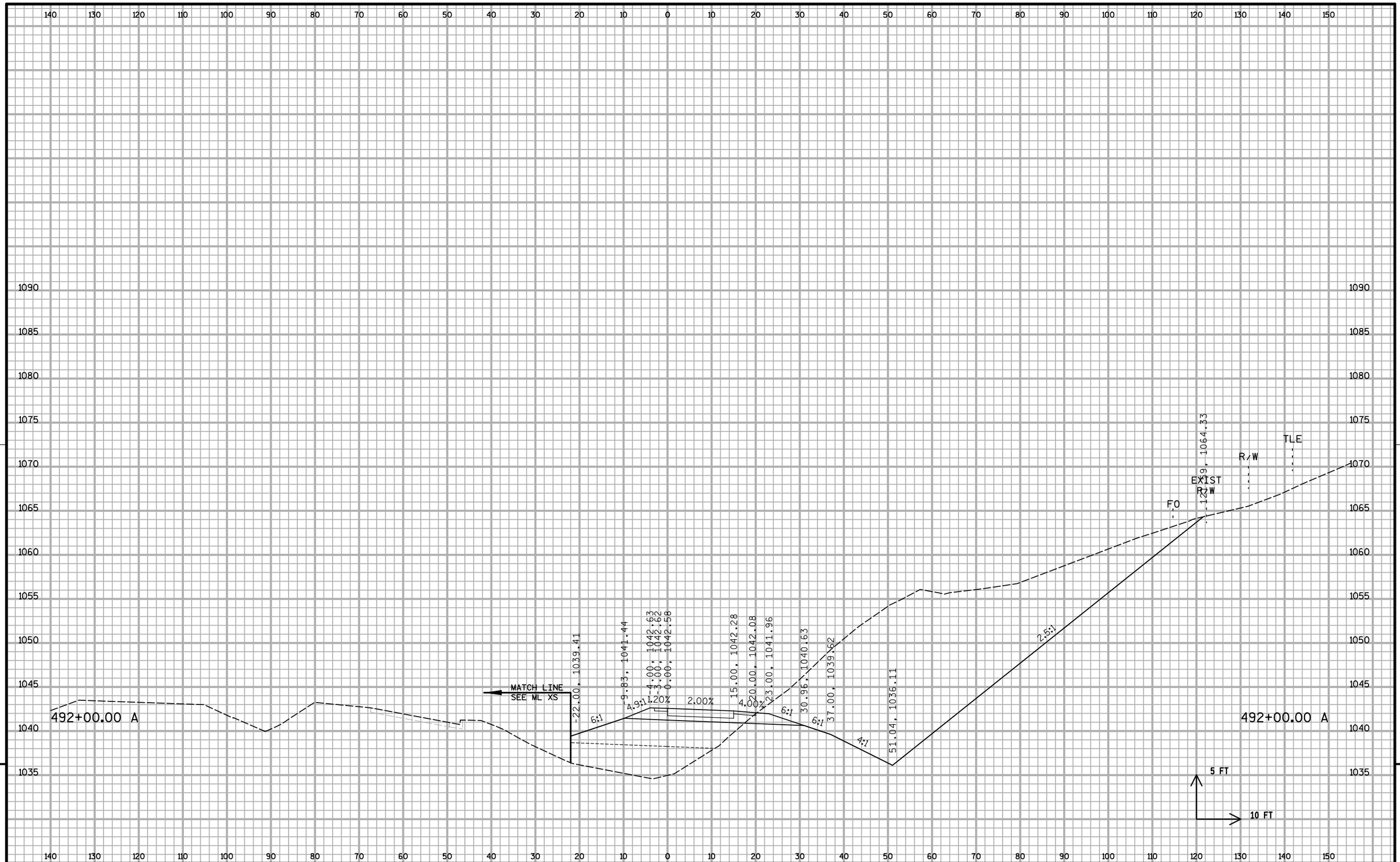


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: A RAMP S2	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090202_Axs_S2.dgn PLOT DATE : 1/5/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

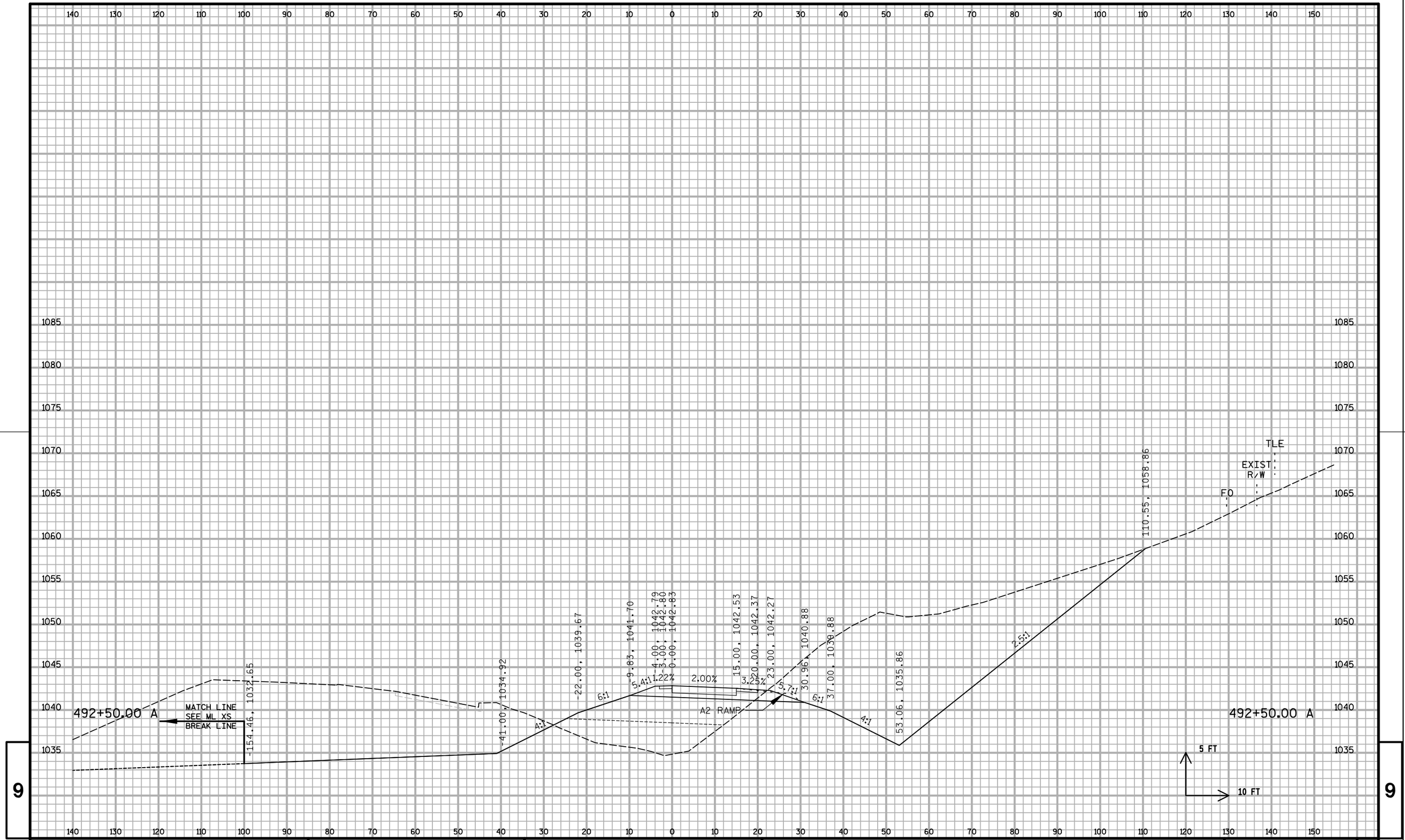


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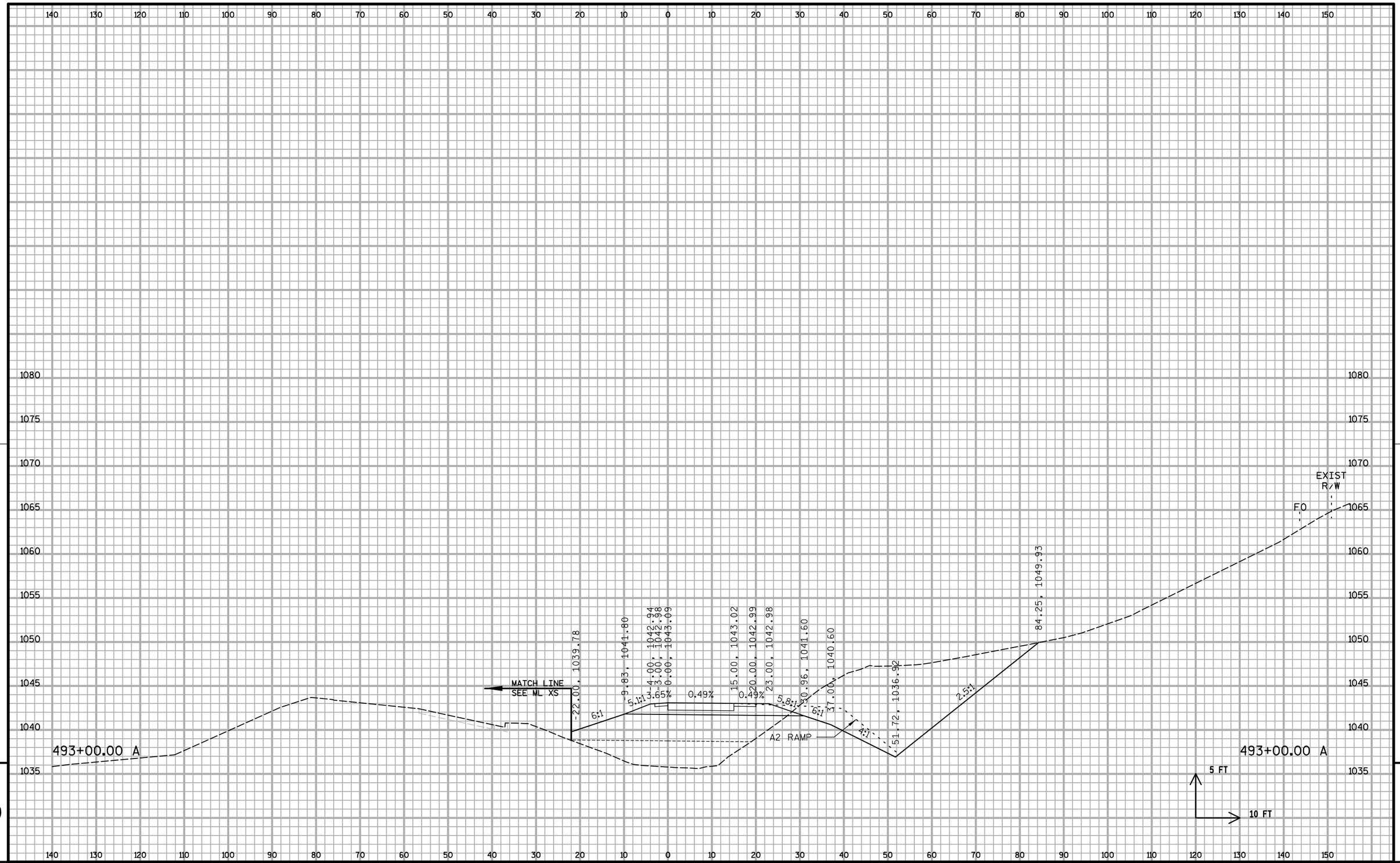
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090202_Axs_S2.dgn PLOT DATE : 1/5/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



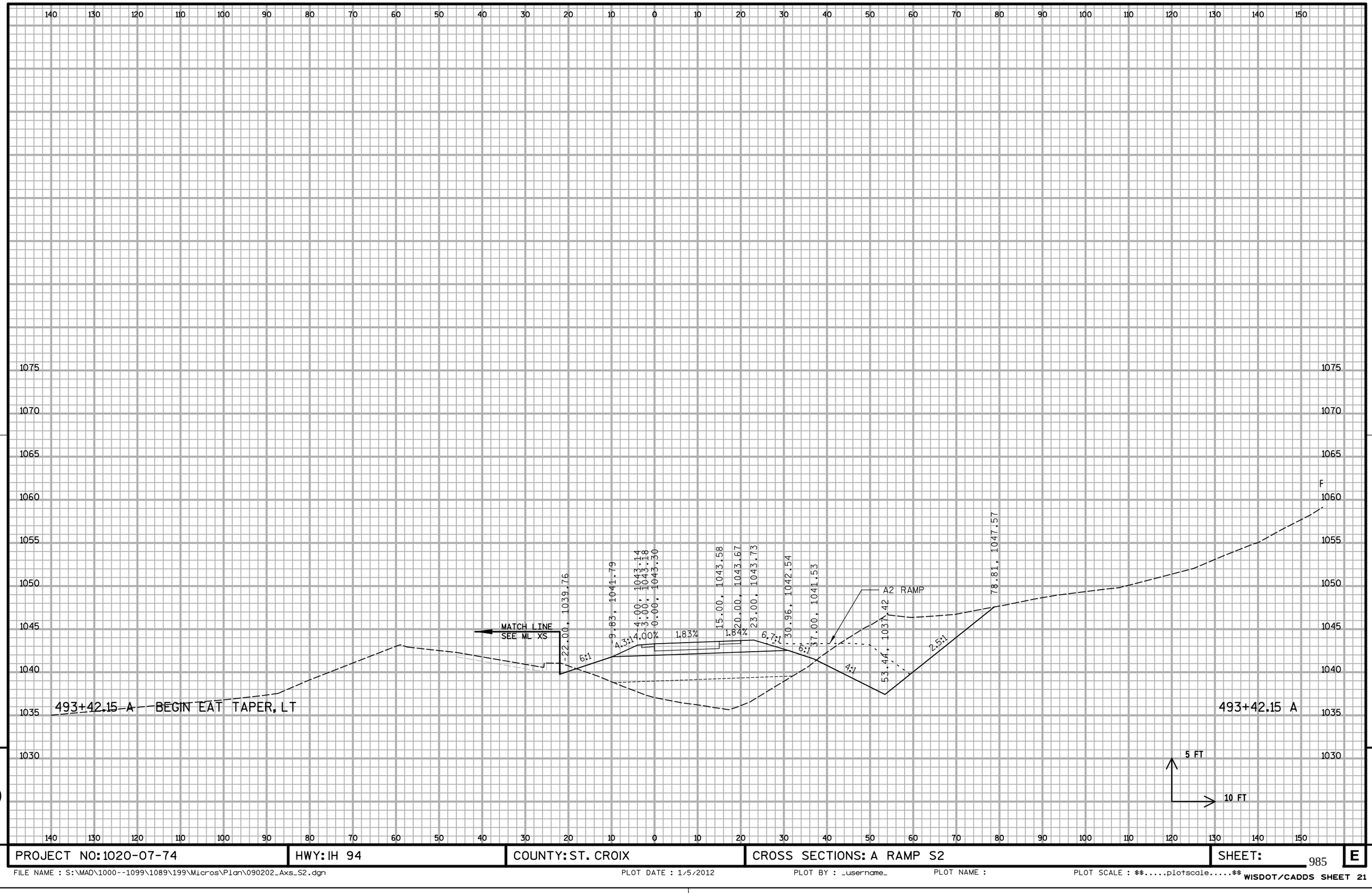
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: A RAMP S2	SHEET: 983	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090202_Axs_S2.dgn PLOT DATE : 1/5/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: A RAMP S2	SHEET: 984	E

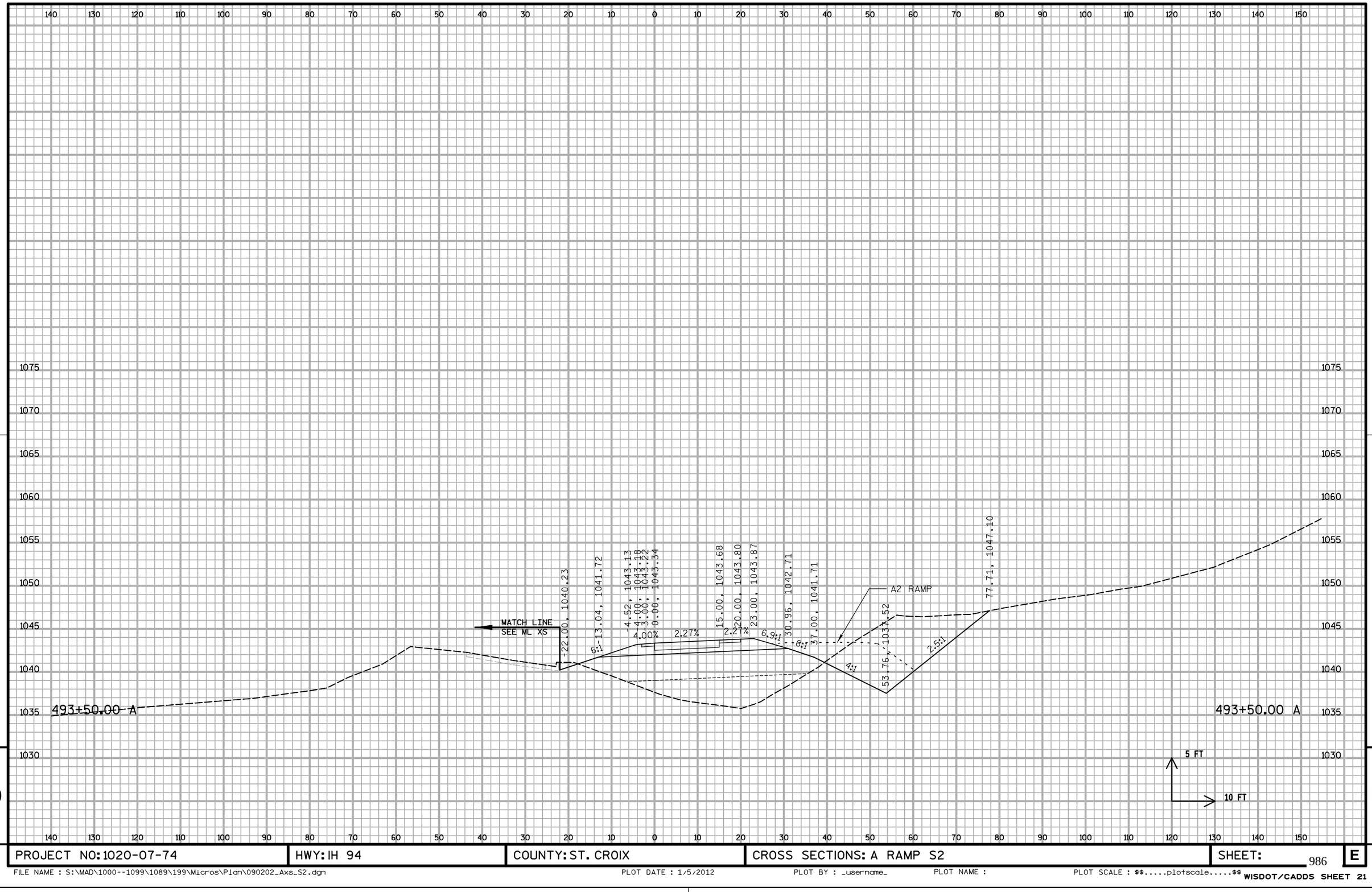


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: A RAMP S2	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090202_Axs_S2.dgn PLOT DATE : 1/5/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

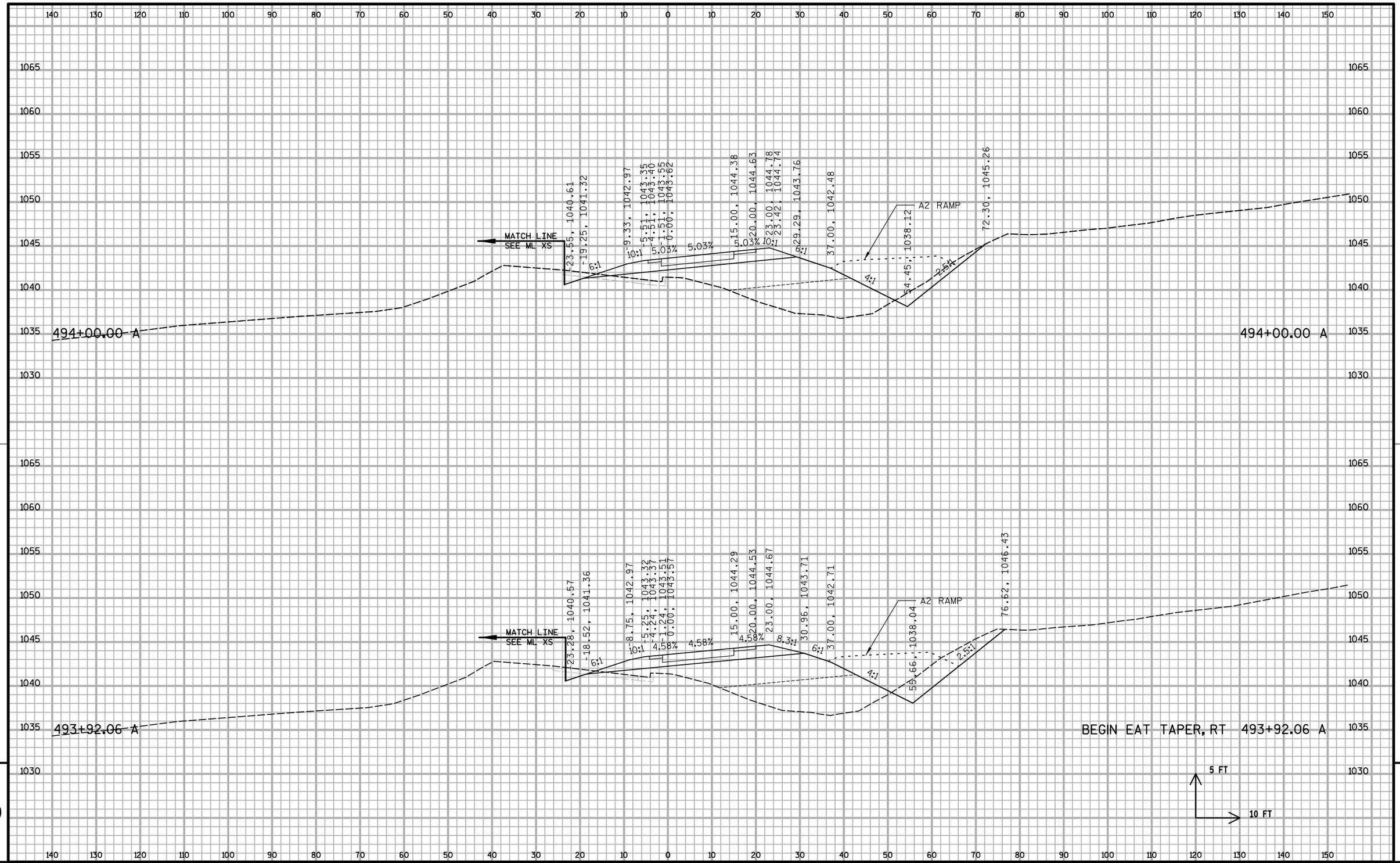


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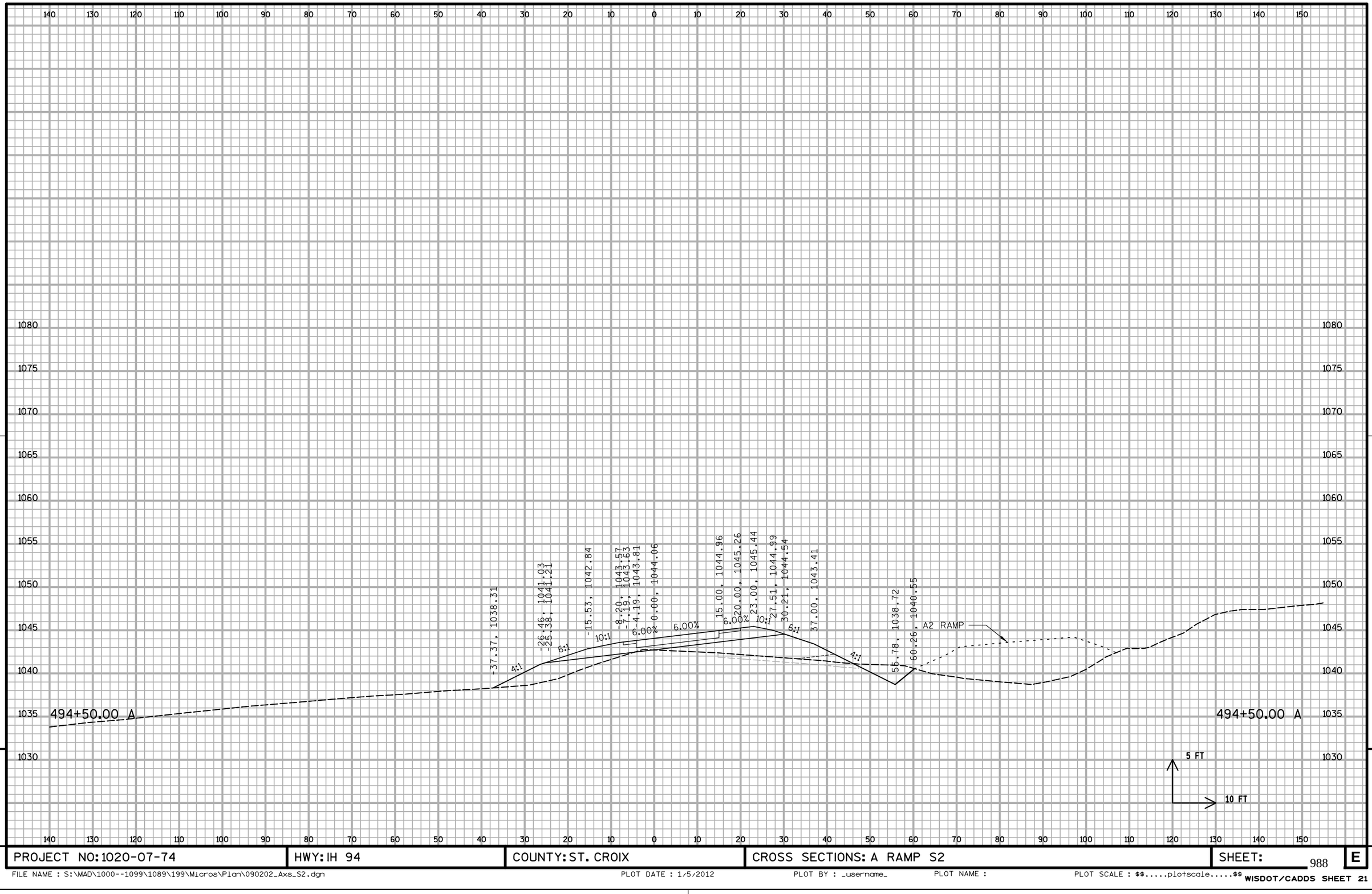
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: A RAMP S2	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090202_Axs_S2.dgn PLOT DATE : 1/5/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: A RAMP S2	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090202_Axs_S2.dgn PLOT DATE : 1/5/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

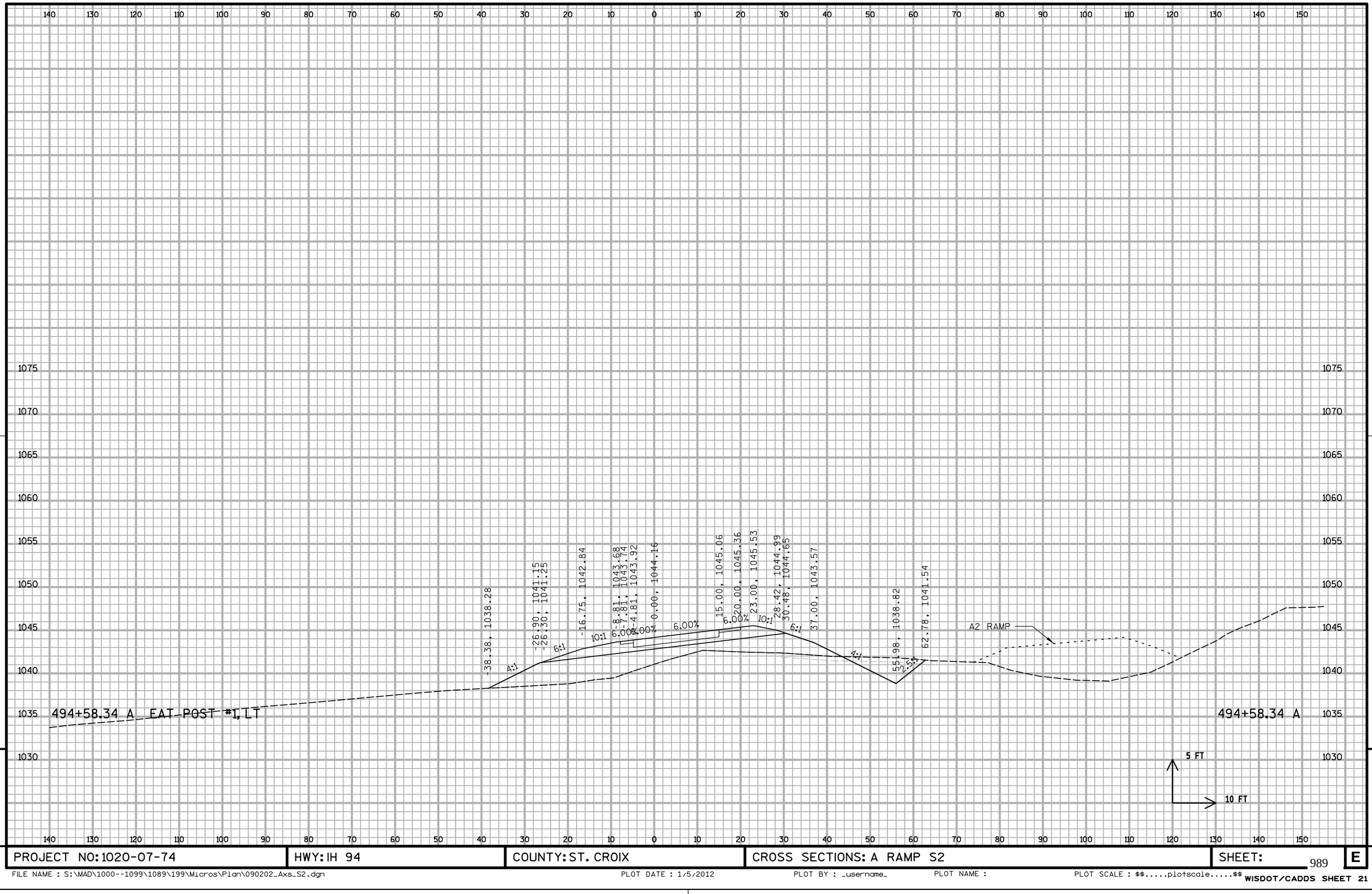


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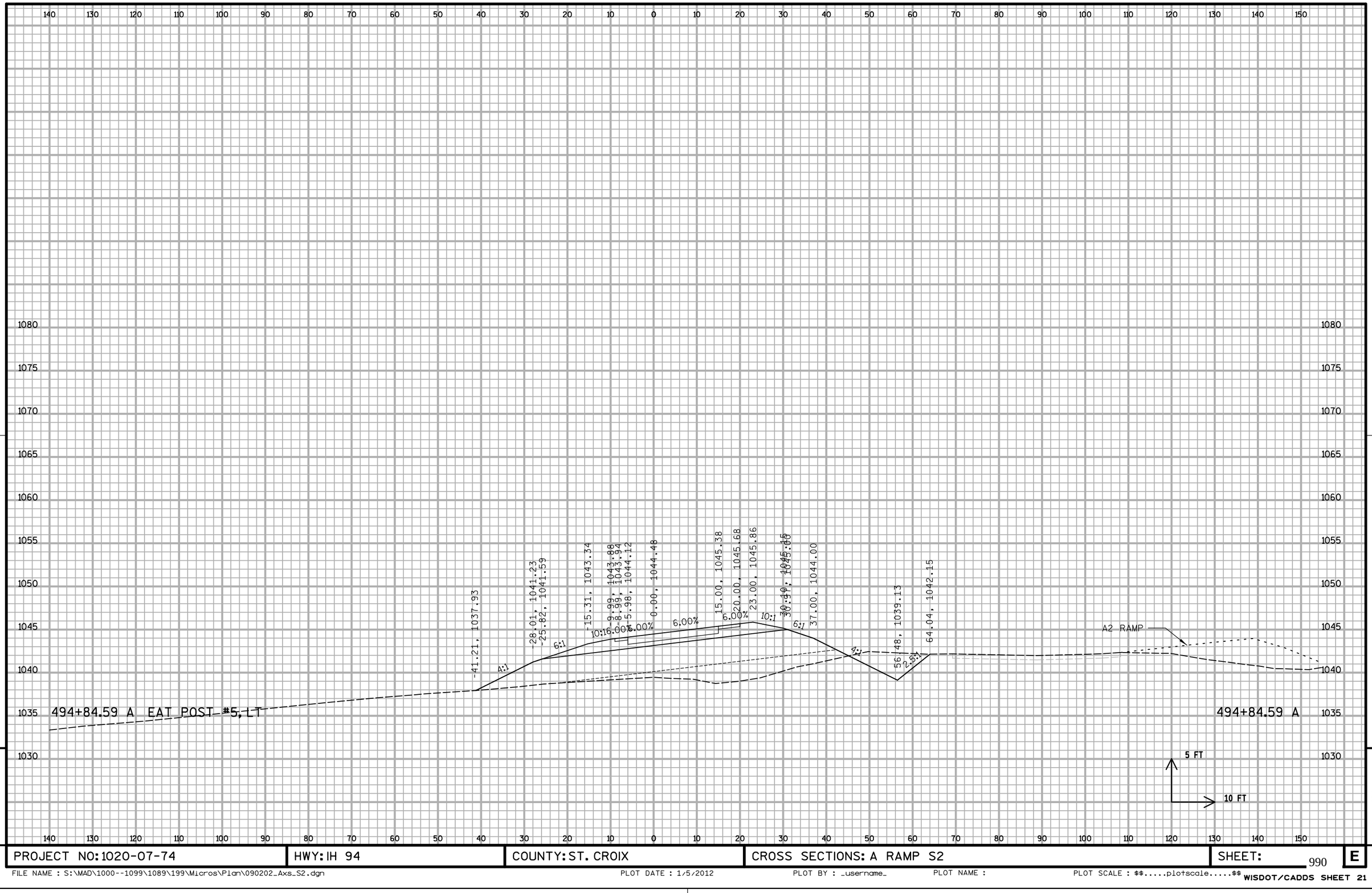
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: A RAMP S2	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090202_Axs_S2.dgn PLOT DATE : 1/5/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: A RAMP S2	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090202_Axs_S2.dgn PLOT DATE : 1/5/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

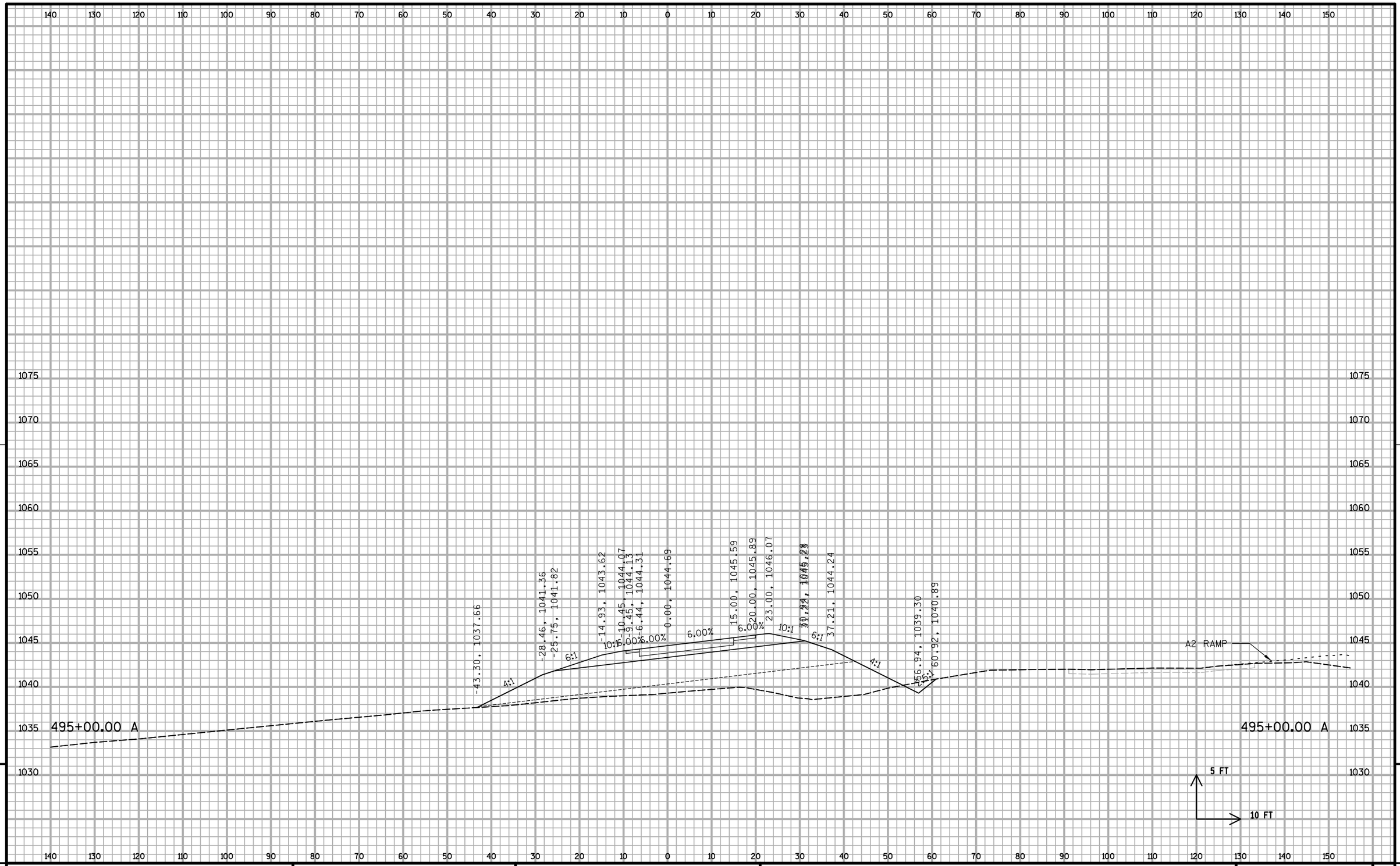


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: A RAMP S2	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090202_Axs_S2.dgn PLOT DATE : 1/5/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

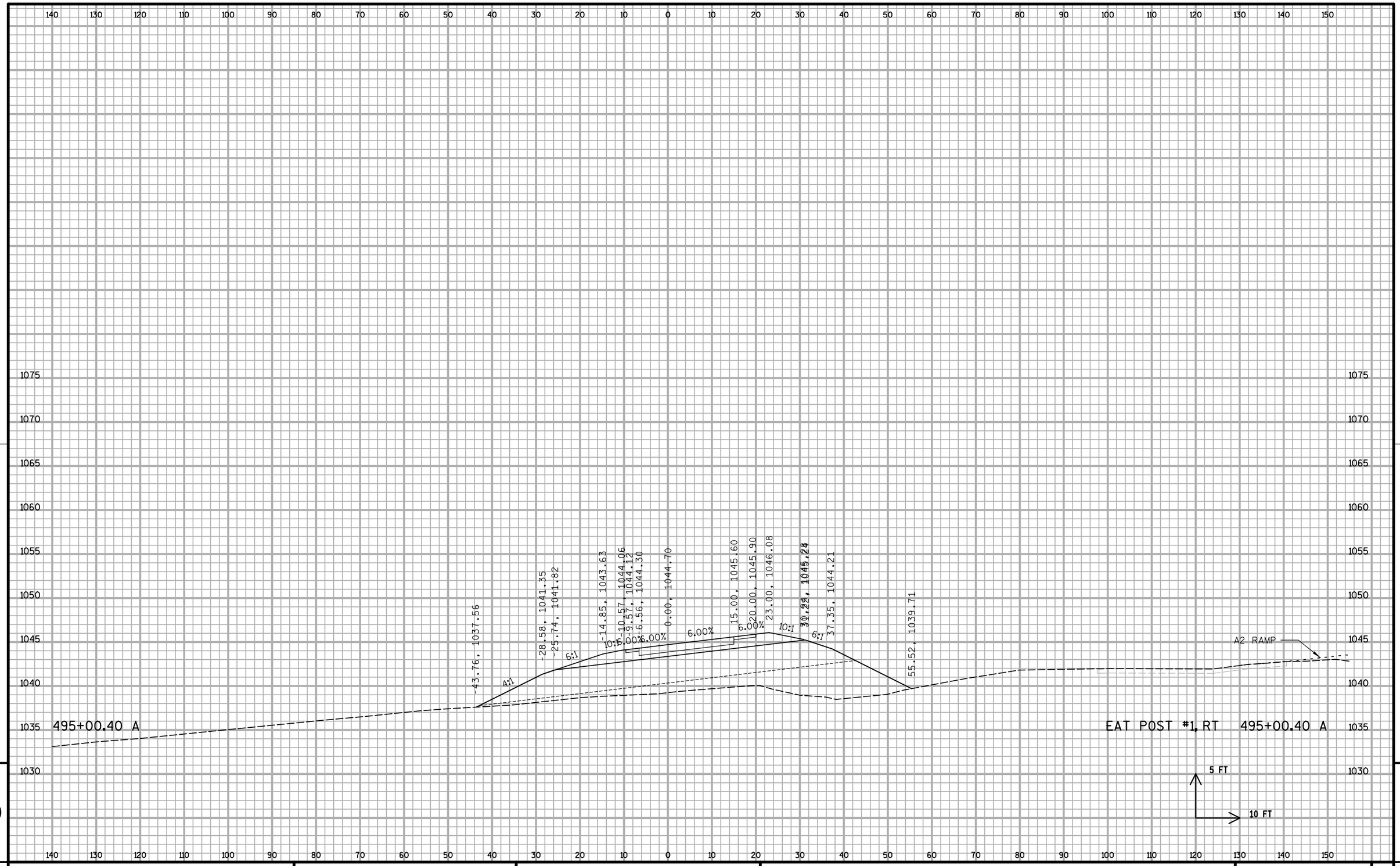


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: A RAMP S2	SHEET:	E

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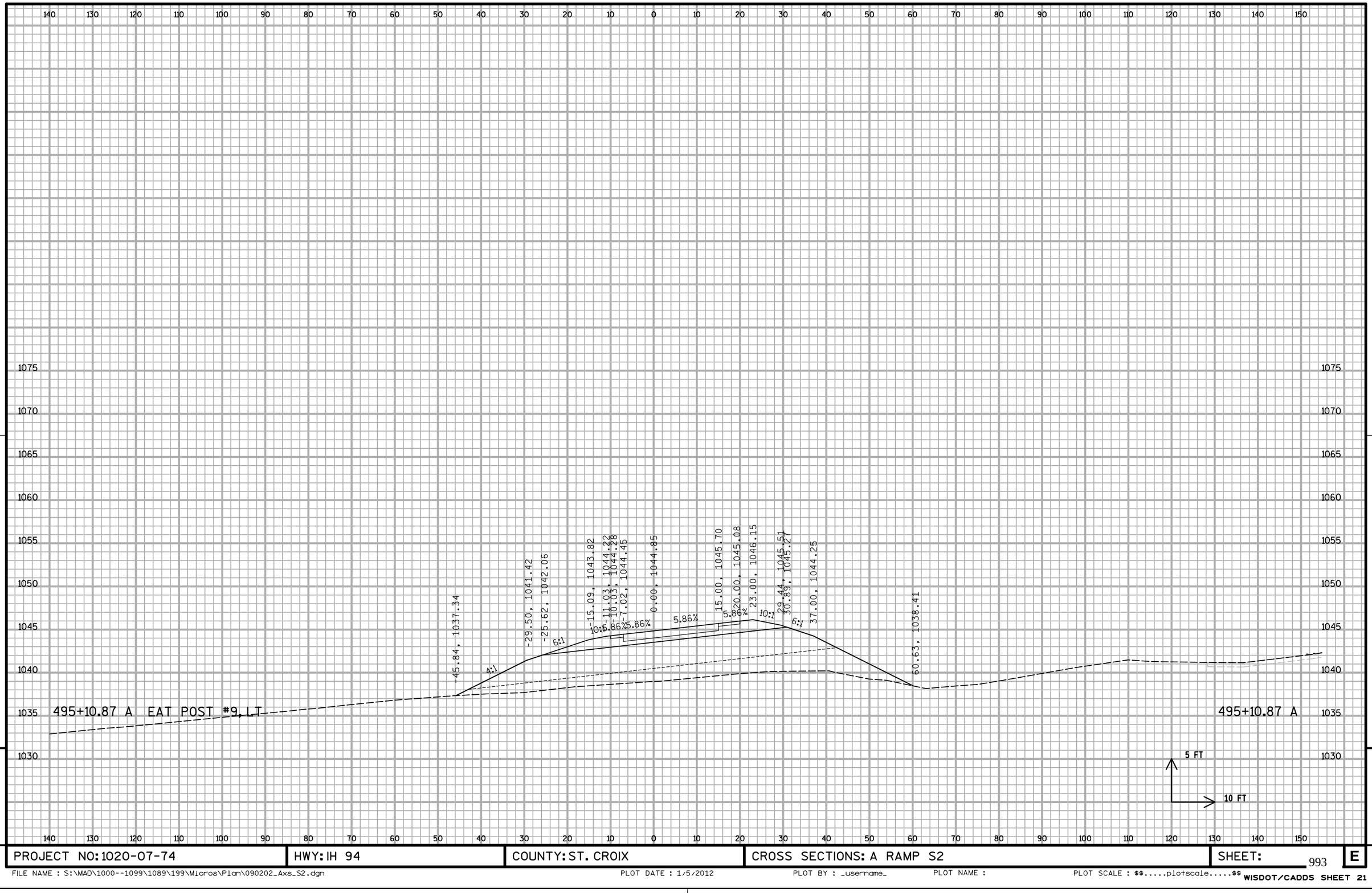


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: A RAMP S2	SHEET:	E

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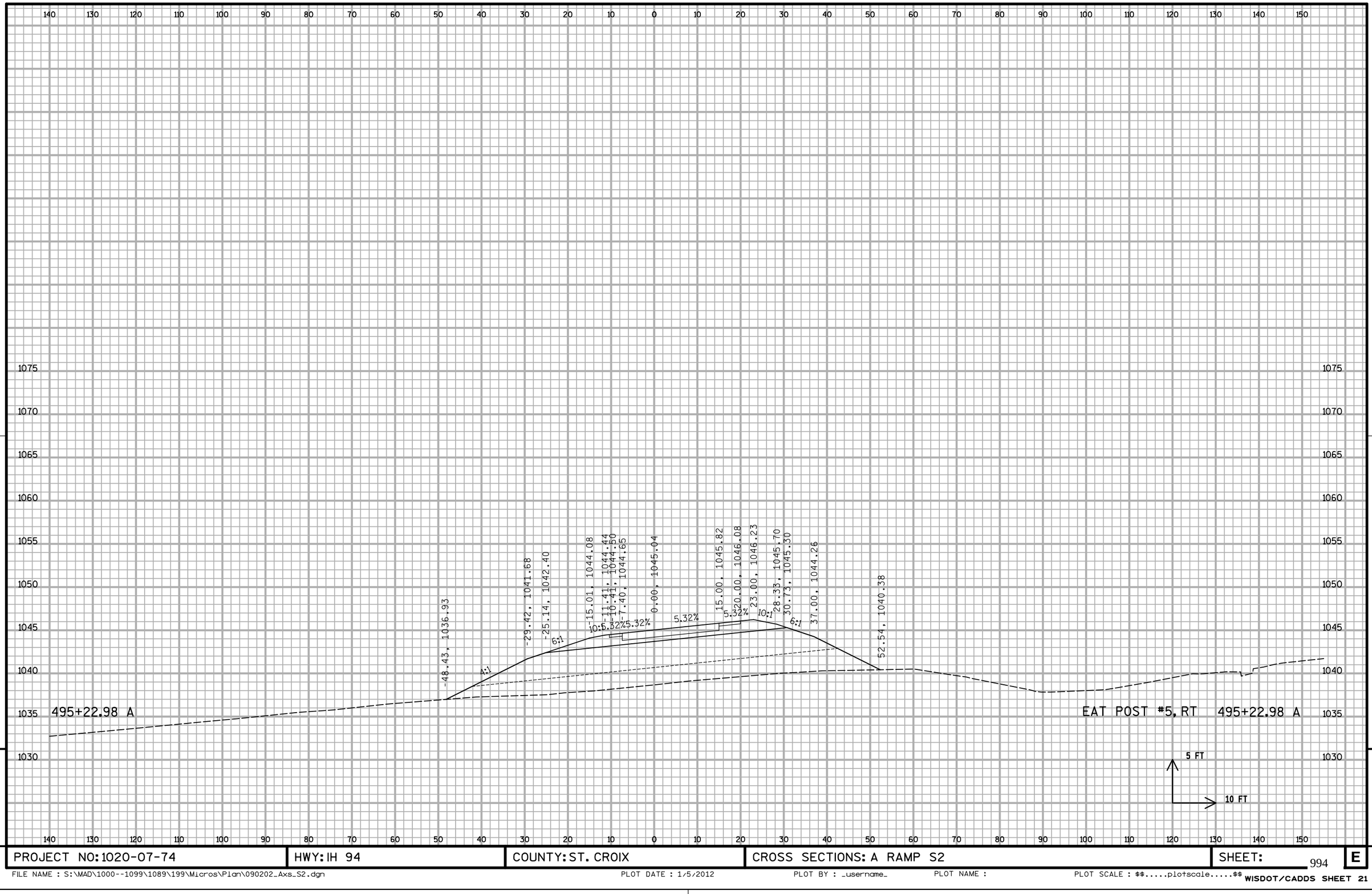


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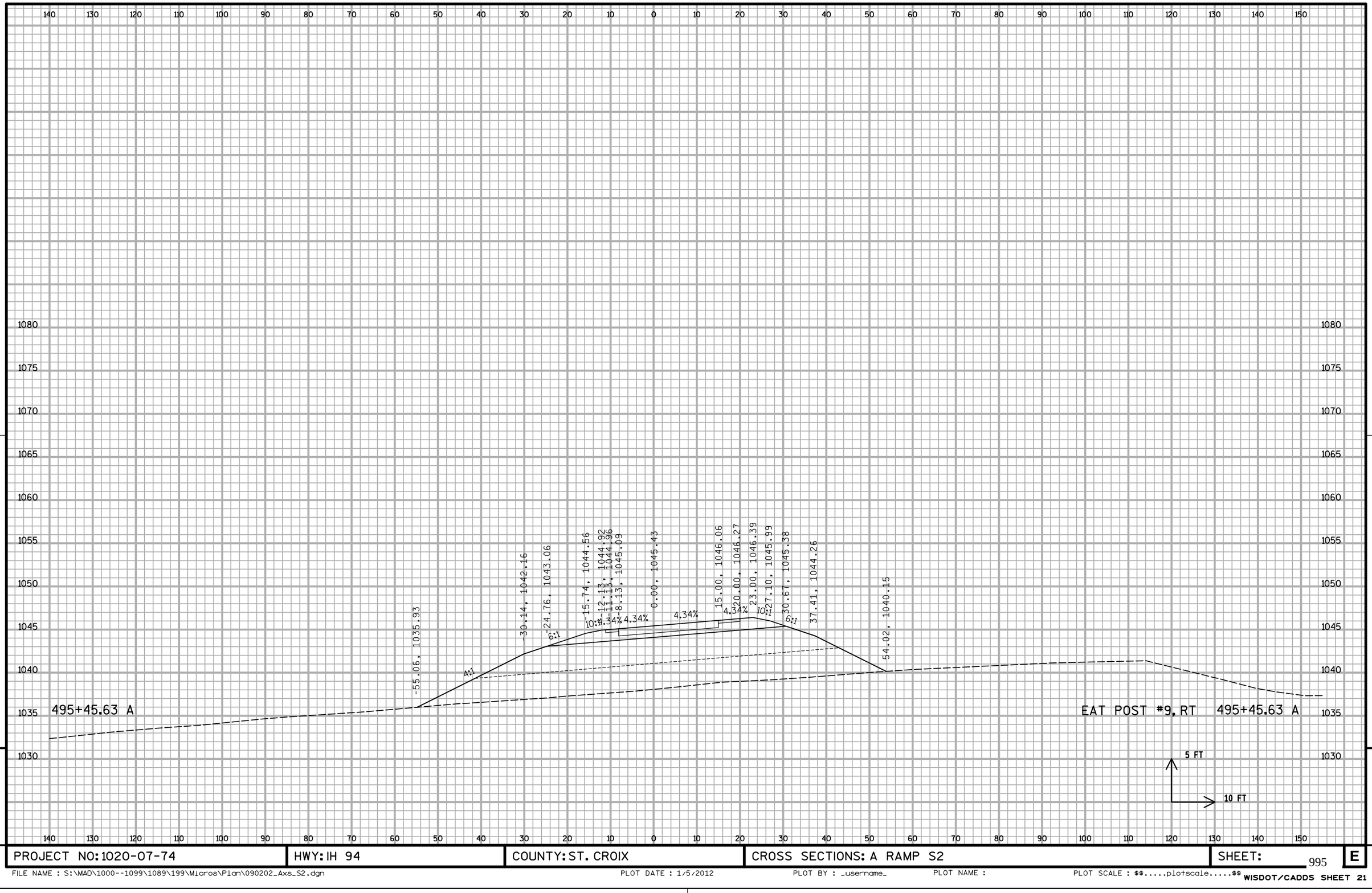
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: A RAMP S2	SHEET: 994	E

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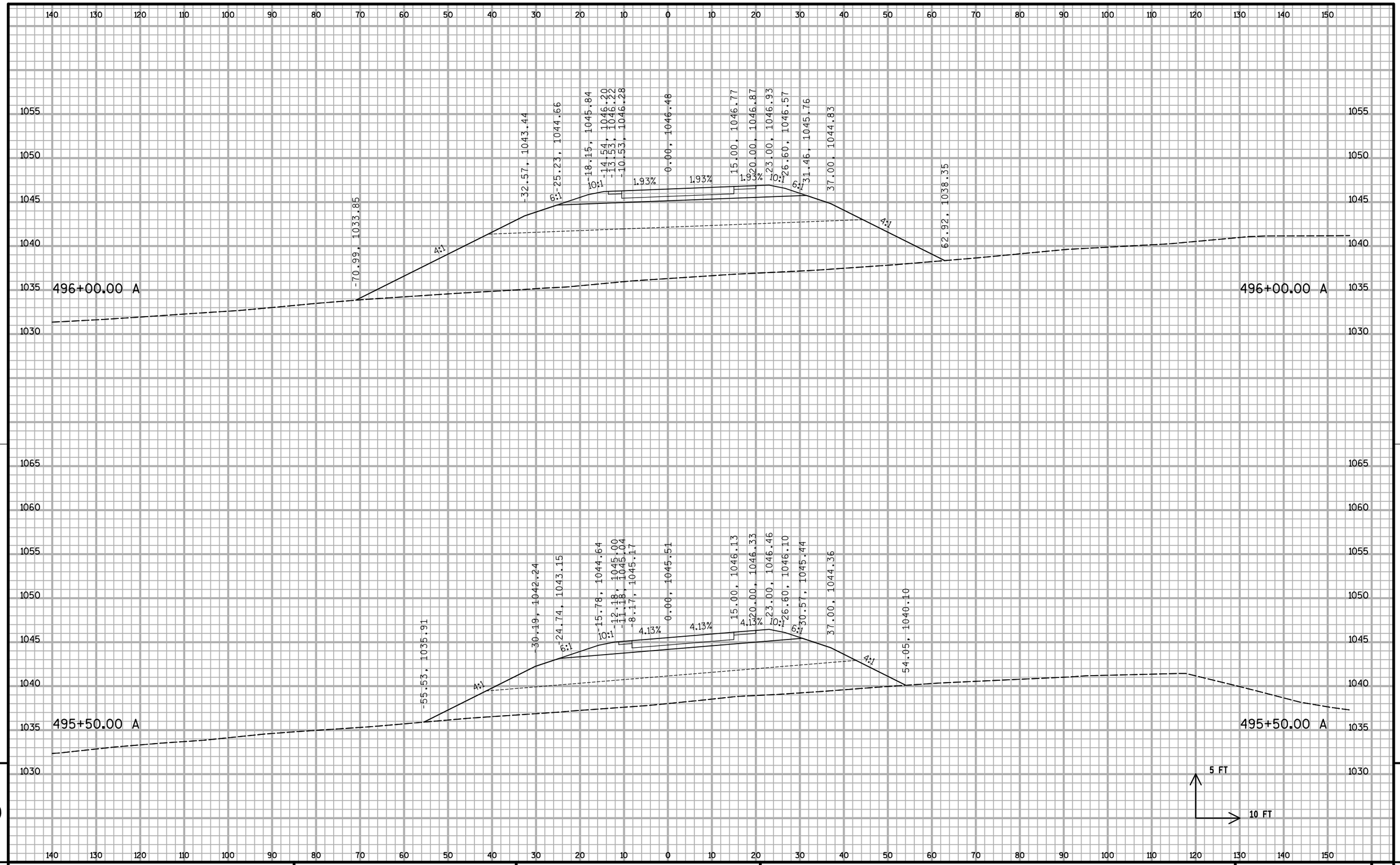
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: A RAMP S2	SHEET:	E

995

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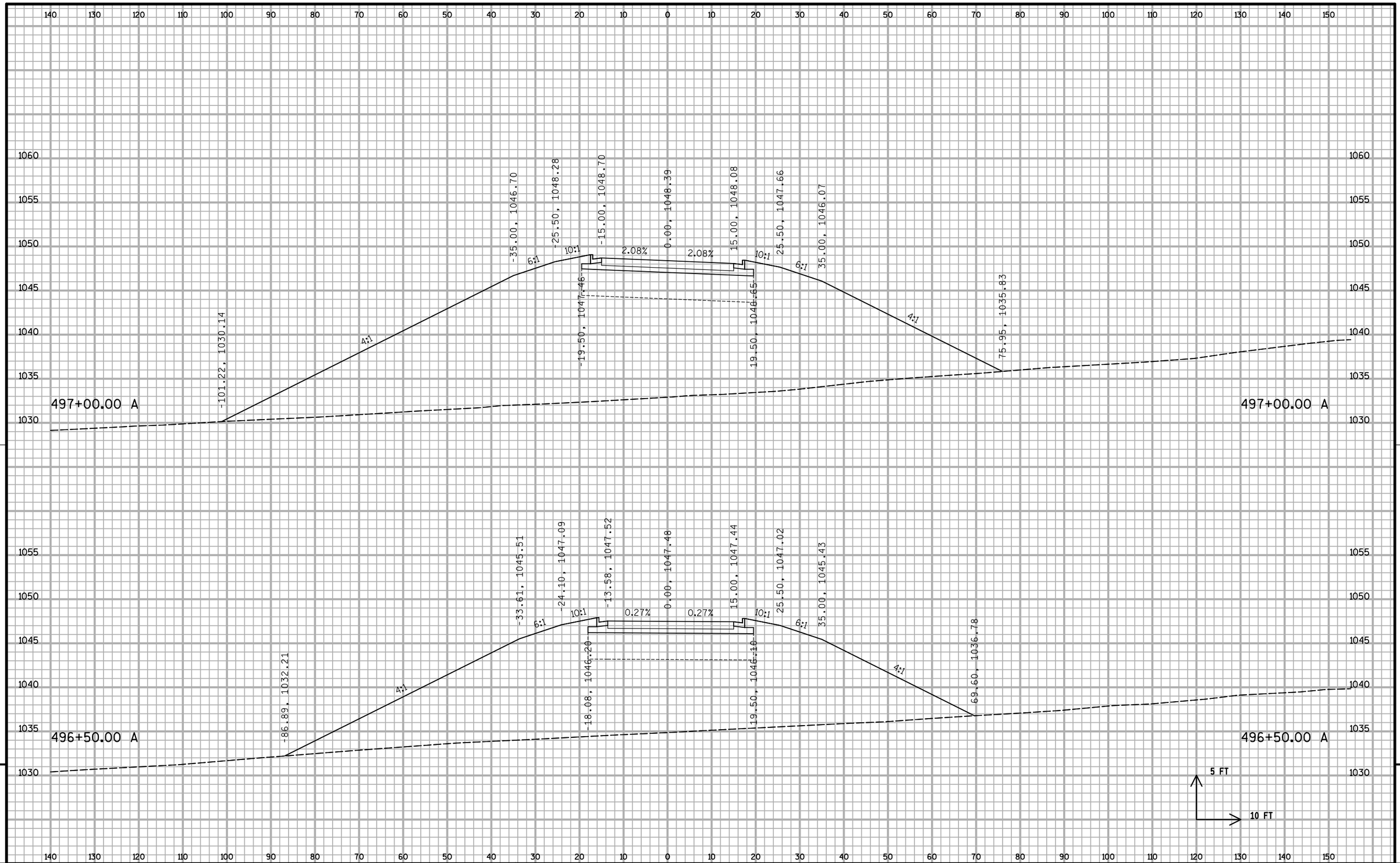
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: A RAMP S2	SHEET:	E

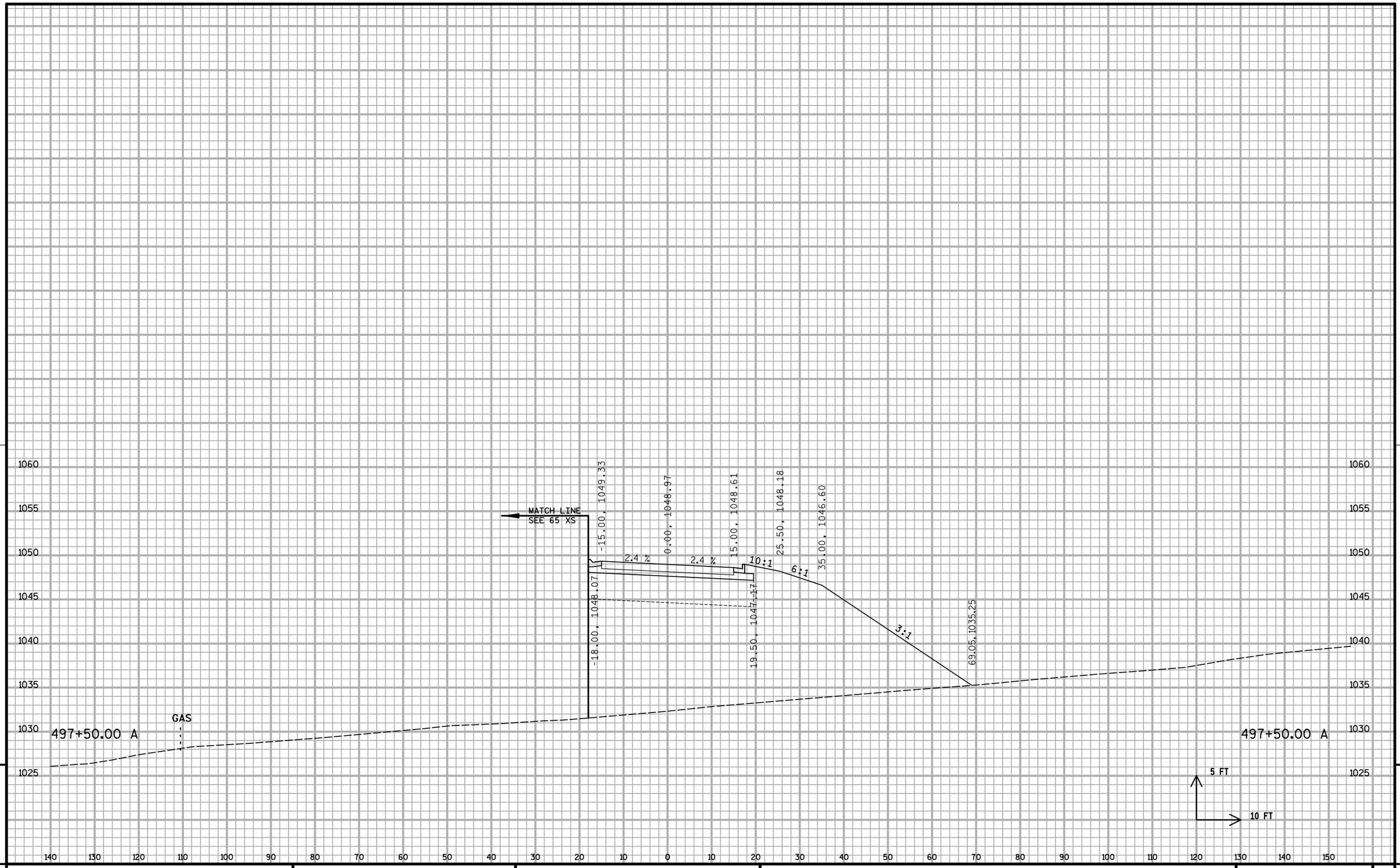
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WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: A RAMP S2	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090202_Axs_S2.dgn PLOT DATE : 1/5/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

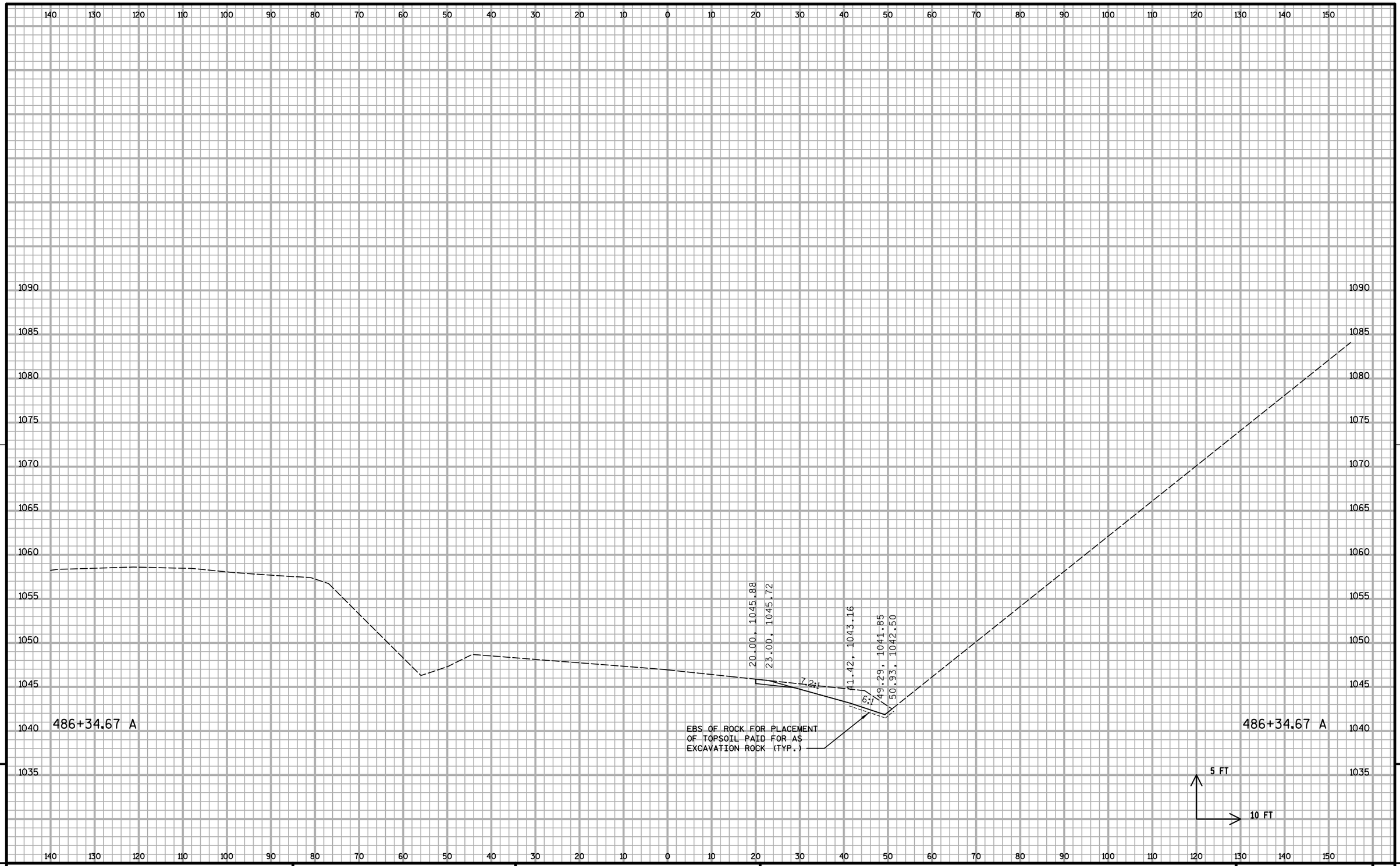


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: A RAMP S2	SHEET:	E

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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: A RAMP S3	SHEET: 999	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090202_Axs_S3.dgn PLOT DATE : 1/5/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

1090 1085 1080 1075 1070 1065 1060 1055 1050 1045 1040 1035

20.00, 1045.66
23.00, 1045.50
40.85, 1042.97
48.87, 1041.64
50.37, 1042.23

7:1
6:1

486+50.00 A

EBS OF ROCK FOR PLACEMENT
OF TOPSOIL PAID FOR AS
EXCAVATION ROCK (TYP.)

486+50.00 A

5 FT
10 FT

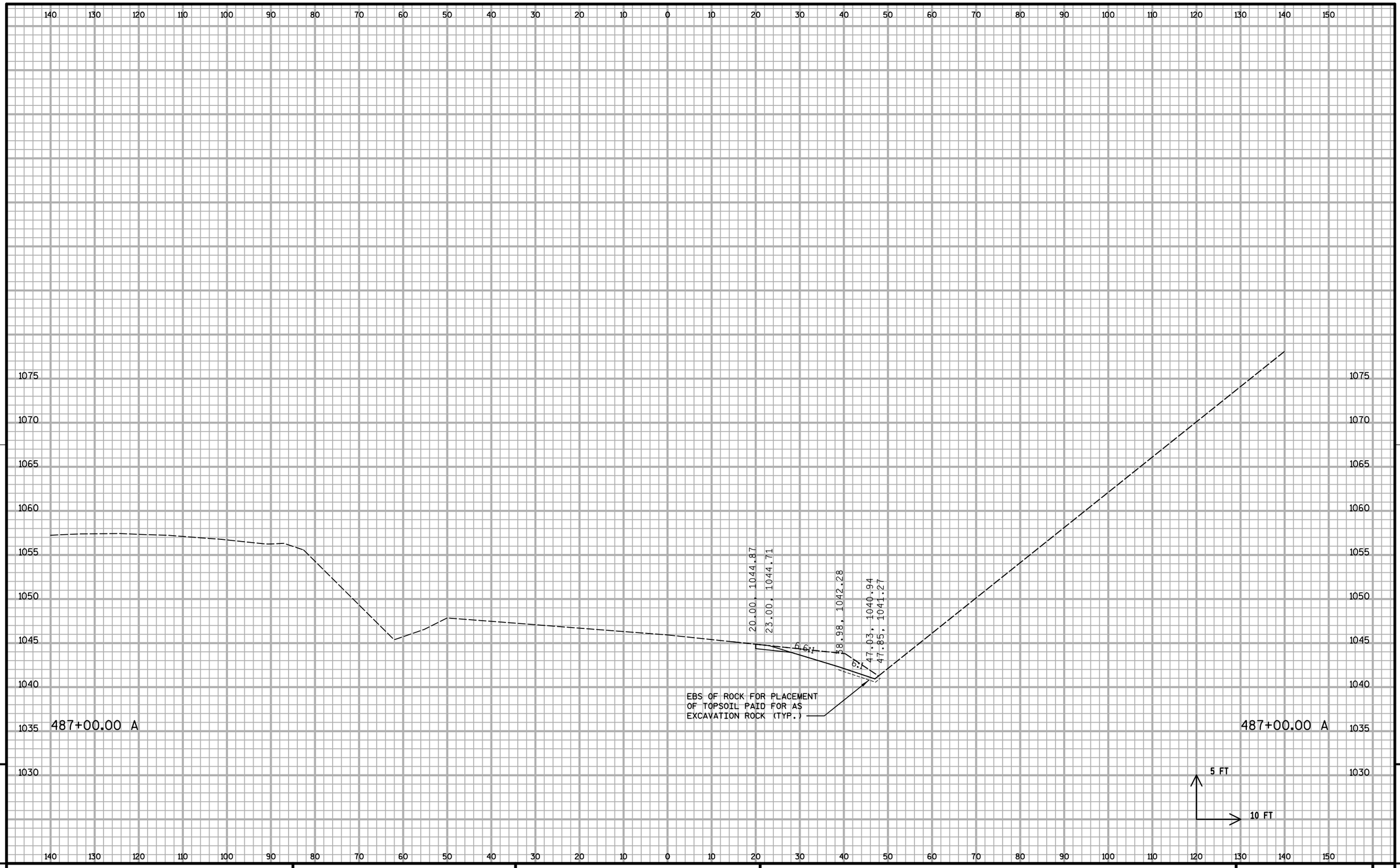
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: A RAMP S3	SHEET: 1000	E

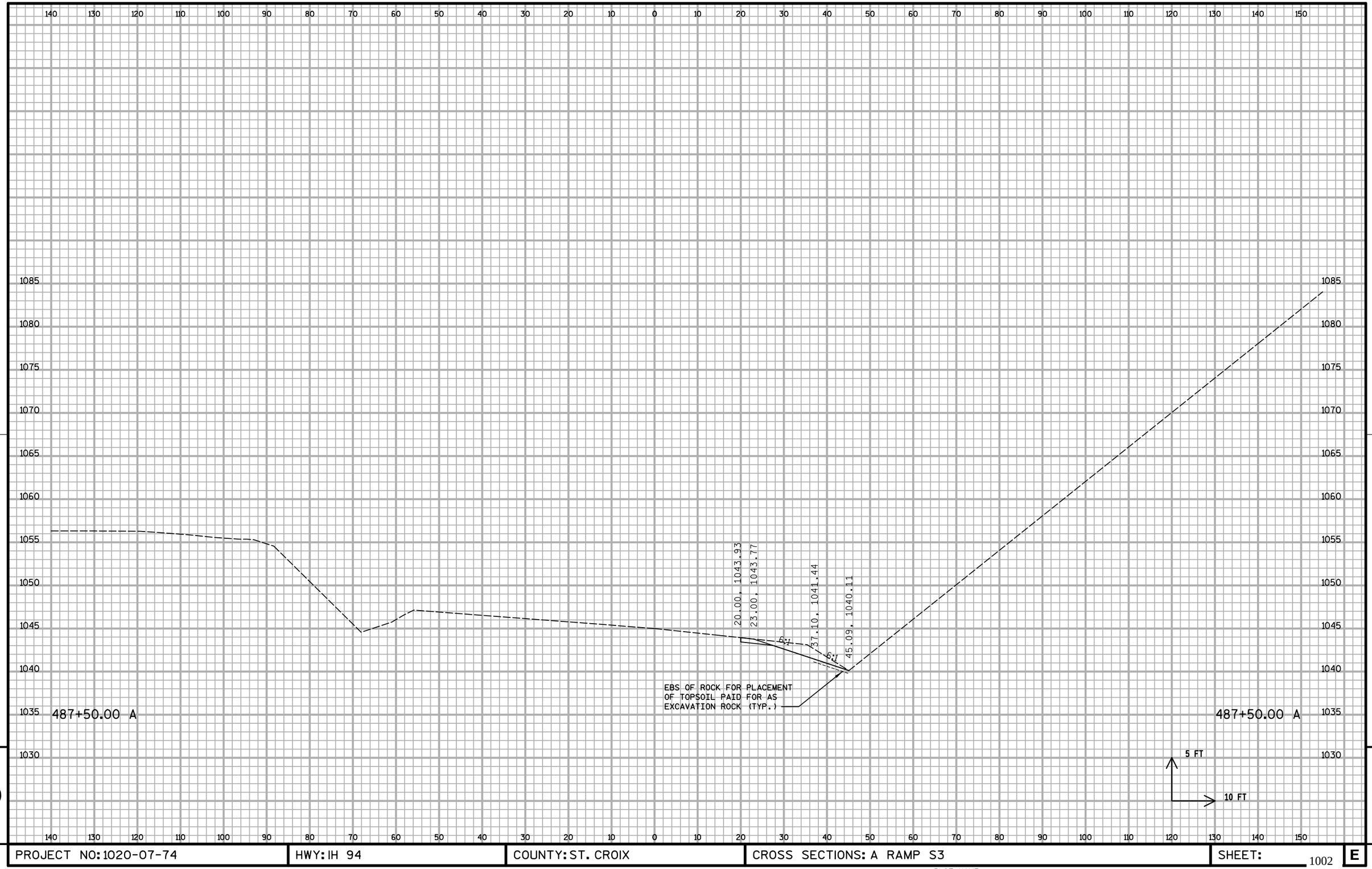
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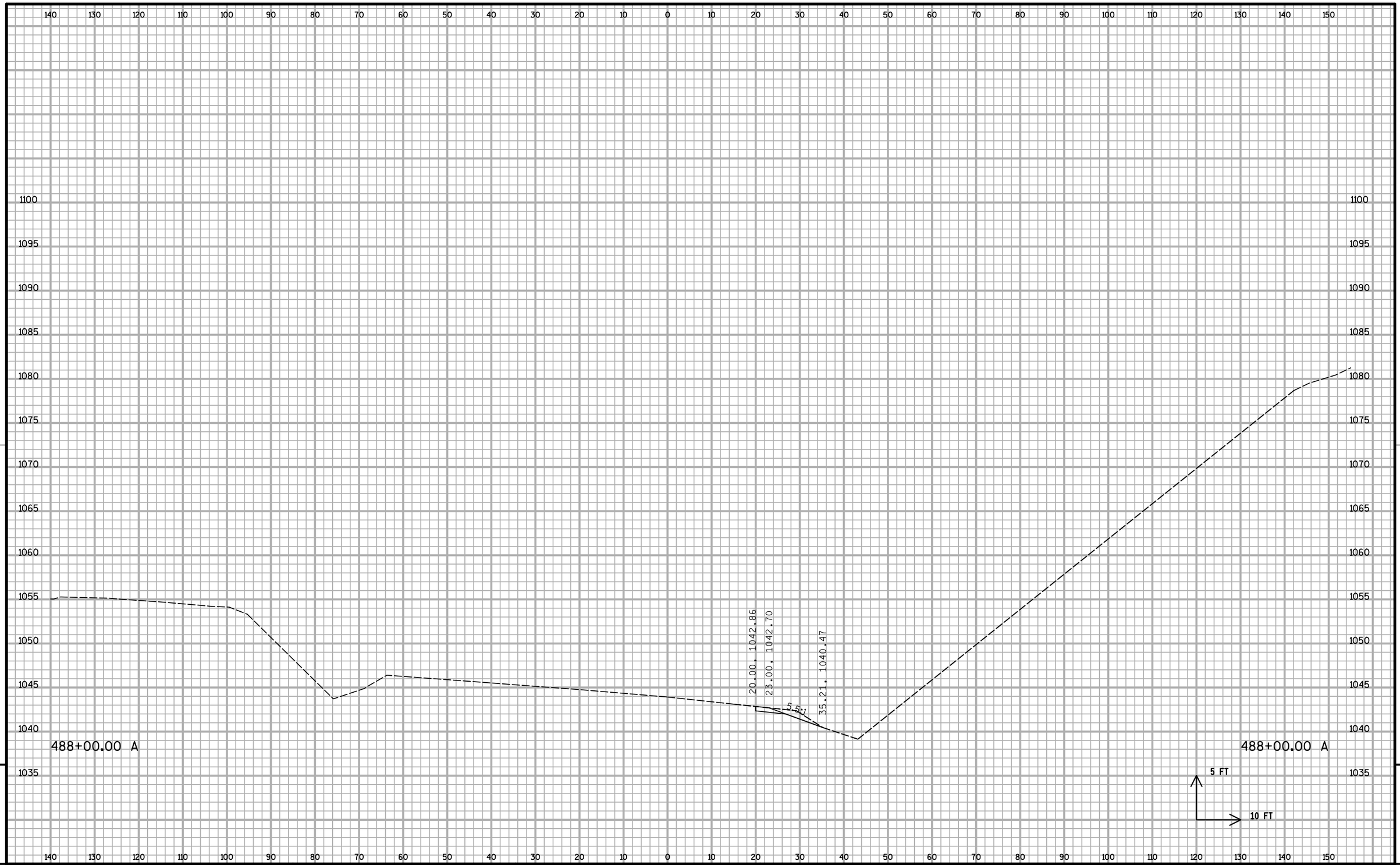
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: A RAMP S3	SHEET: 1002	E



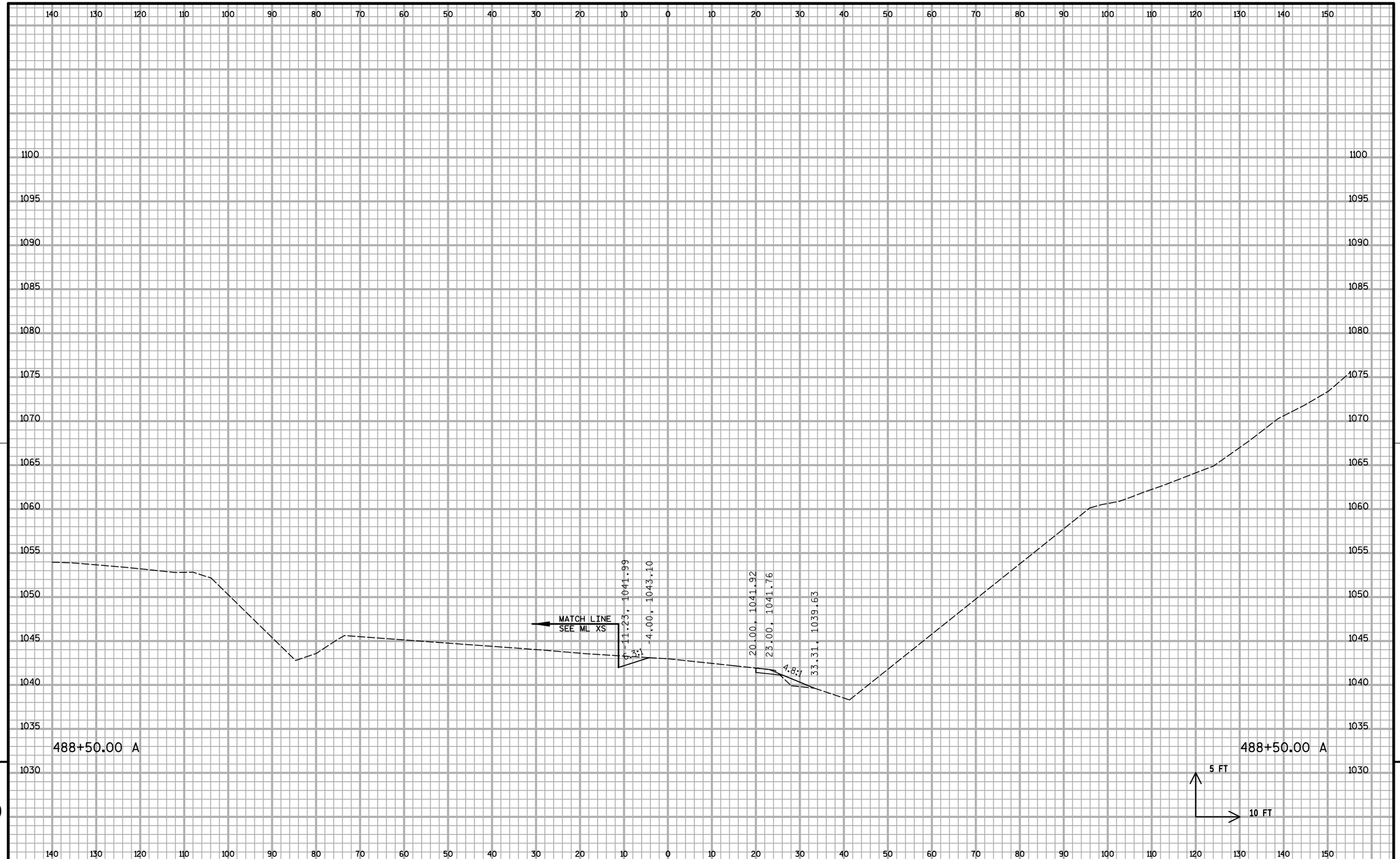
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: A RAMP S3	SHEET: 1003	E

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WISDOT/CADDS SHEET 21



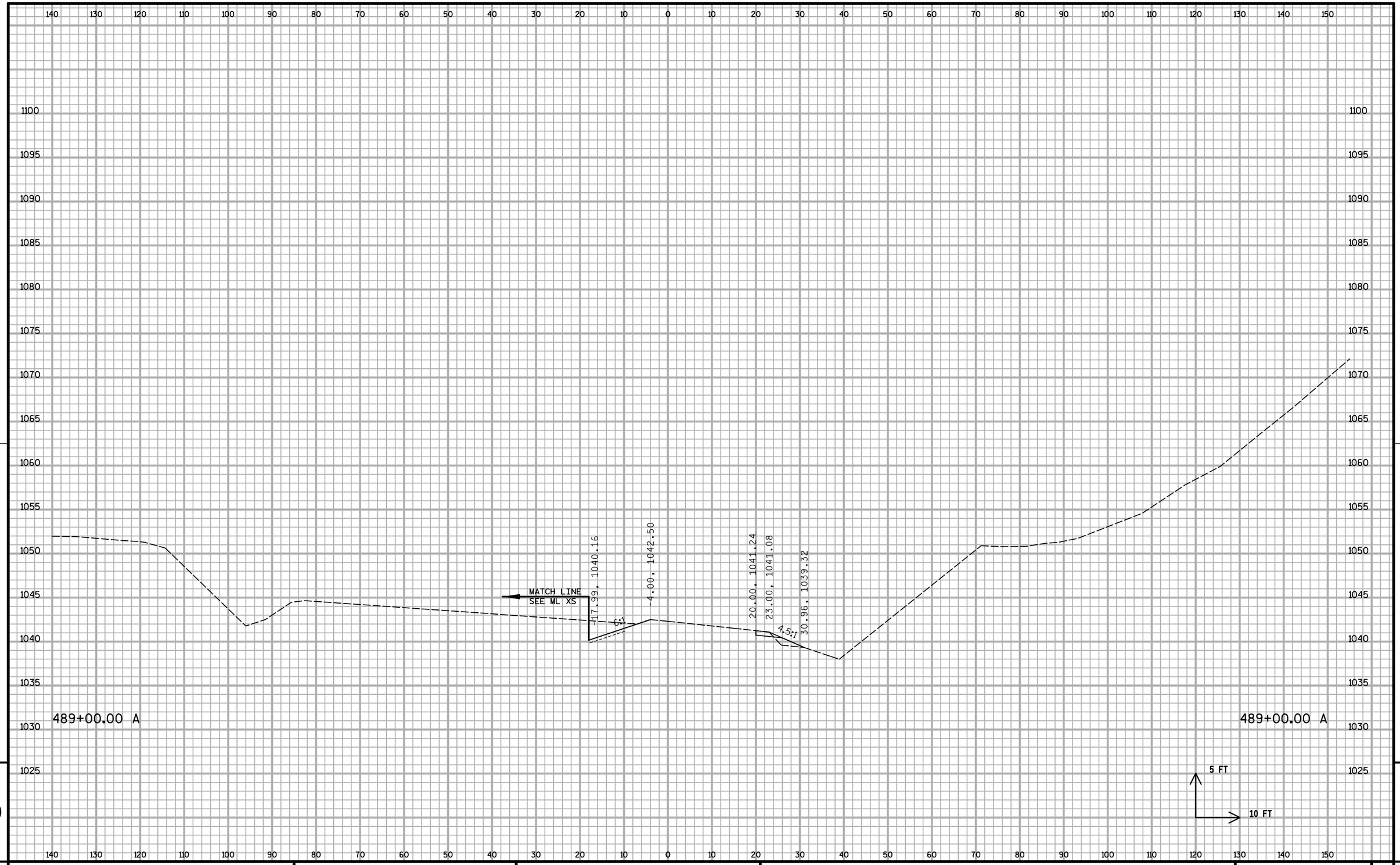
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: A RAMP S3	SHEET: 1004	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090202_Axs_S3.dgn PLOT DATE : 1/5/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

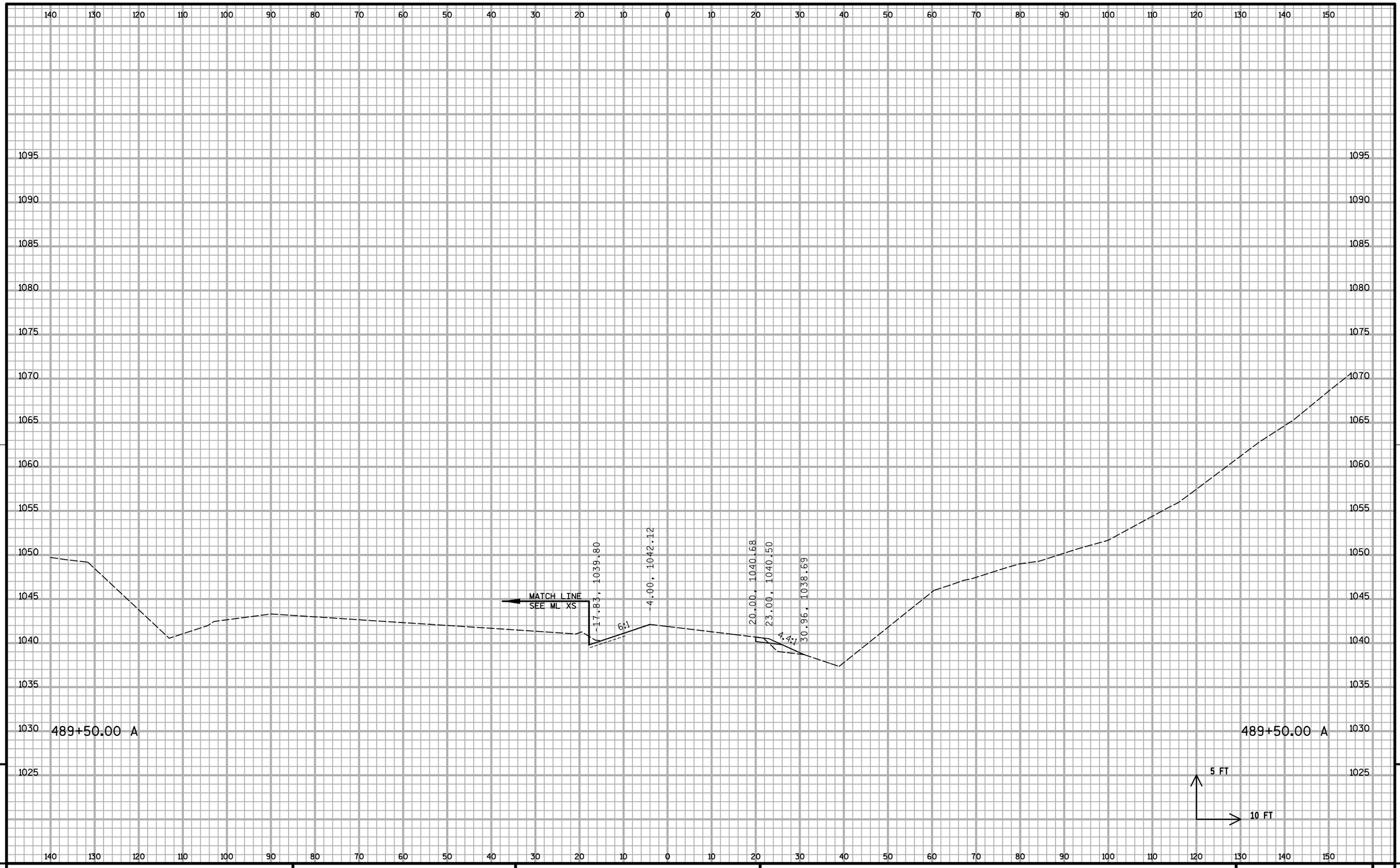
WISDOT/CADDS SHEET 21



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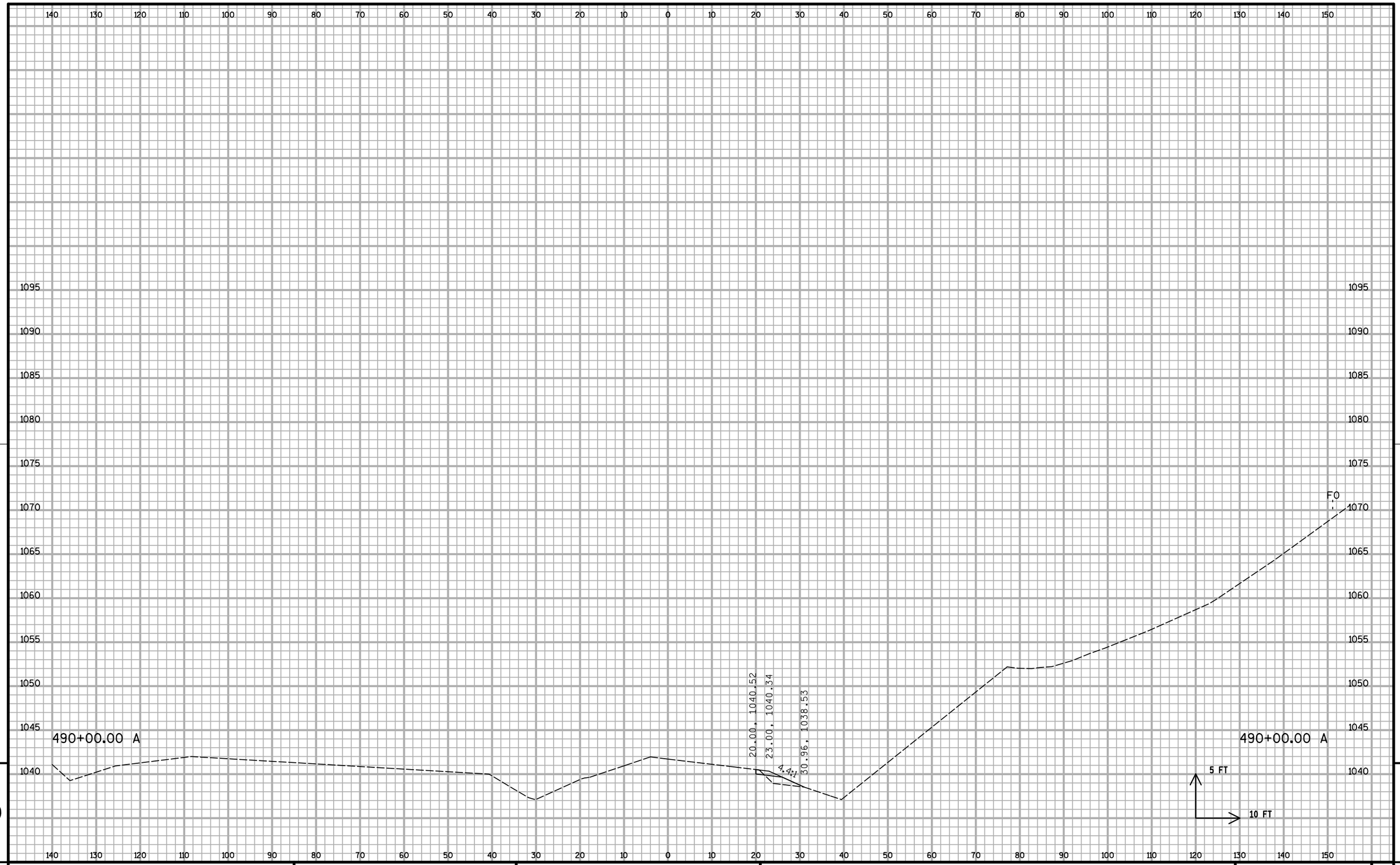
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: A RAMP S3	SHEET: 1005	E



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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: A RAMP S3	SHEET: 1006	E

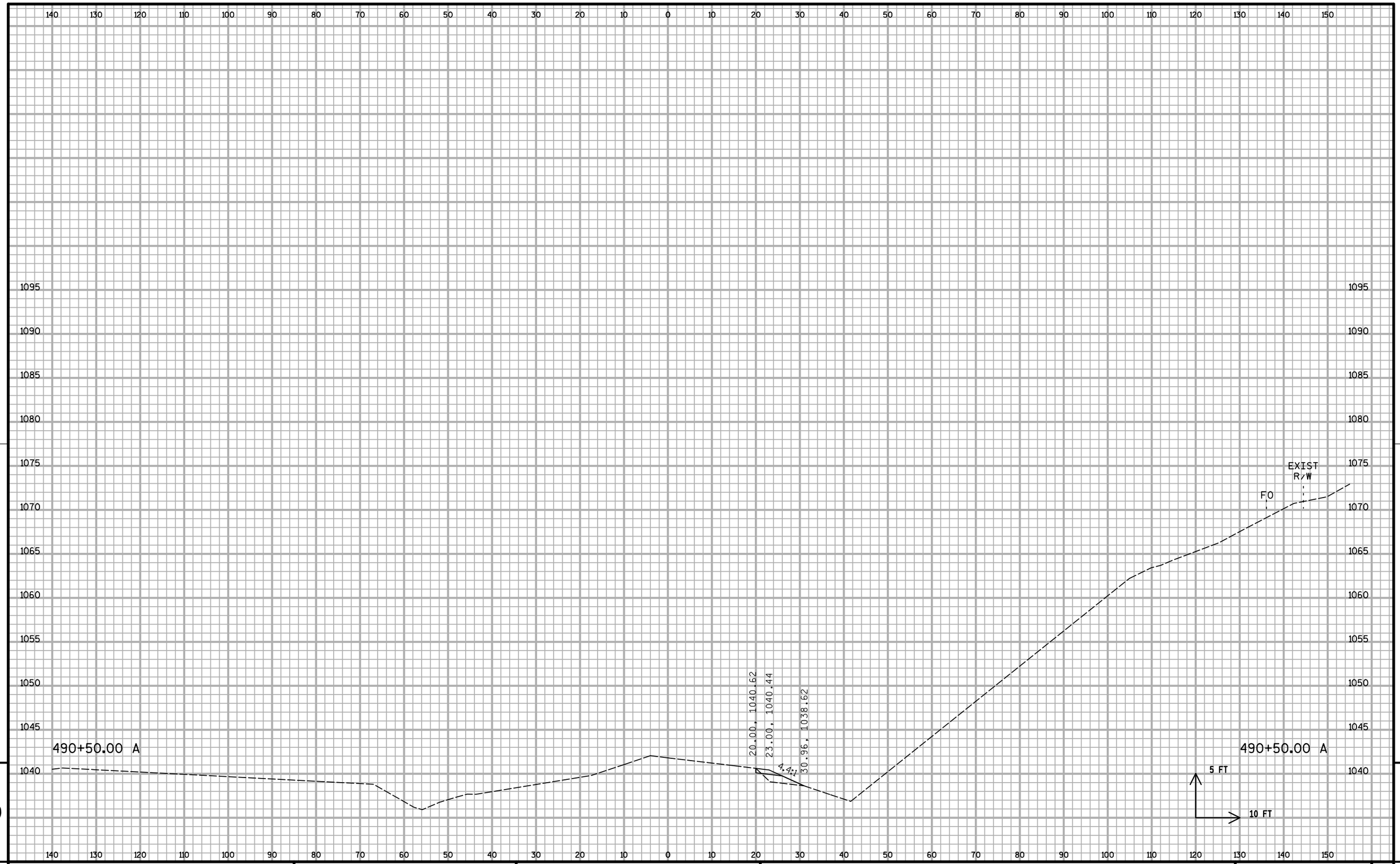


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: A RAMP S3	SHEET: 1007	E

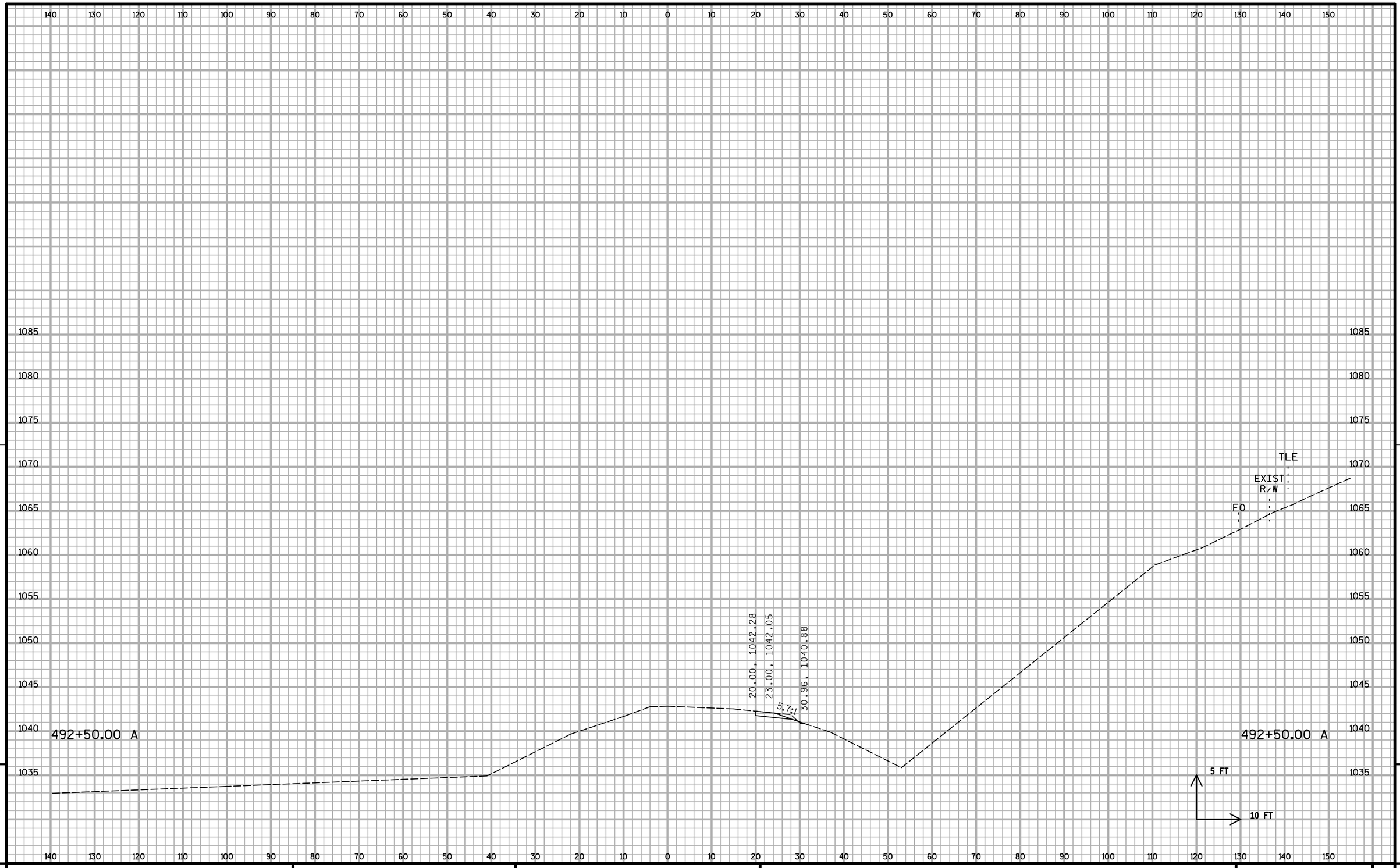
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: A RAMP S3	SHEET: 1008	E

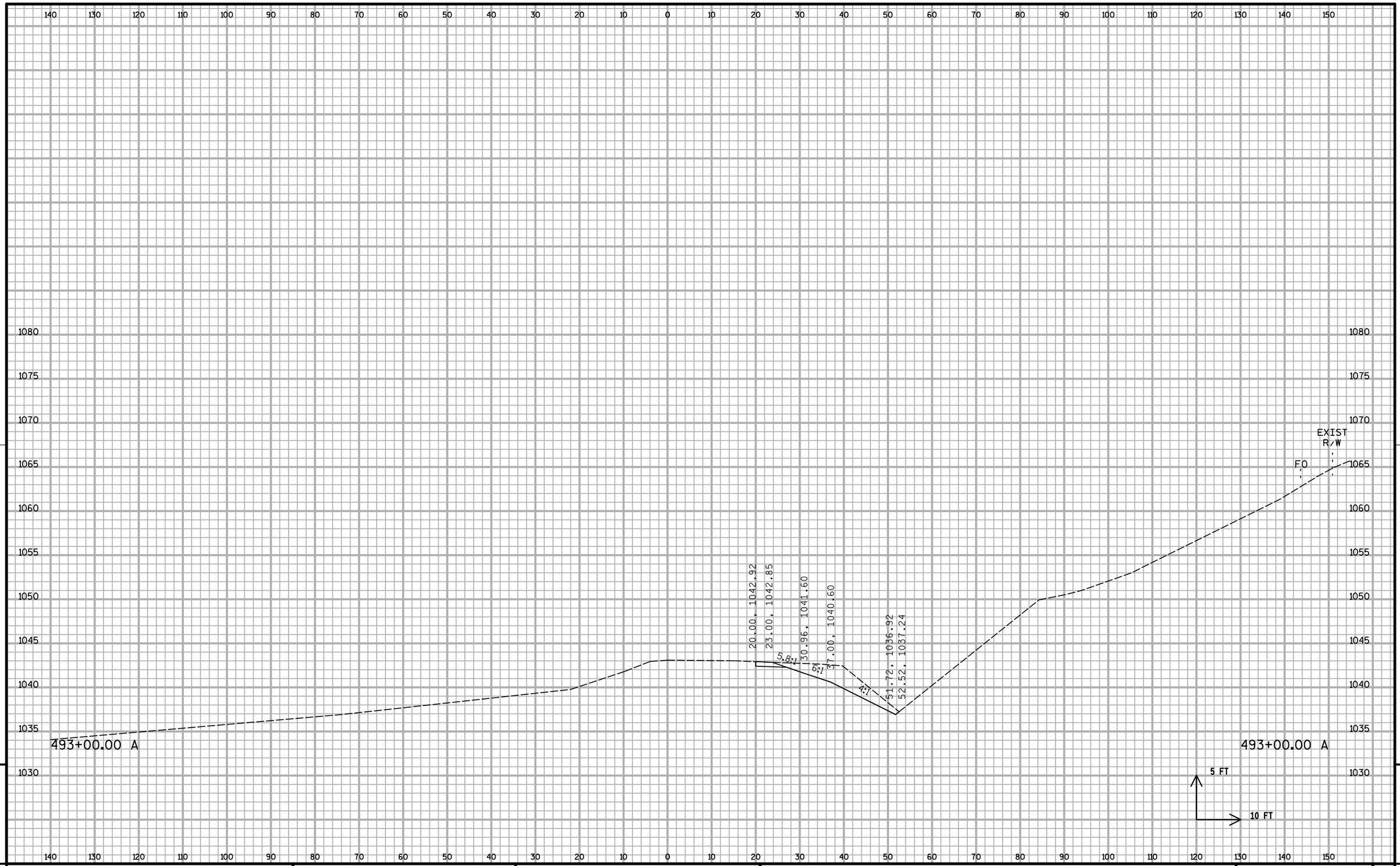


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: A RAMP S3	SHEET:	E

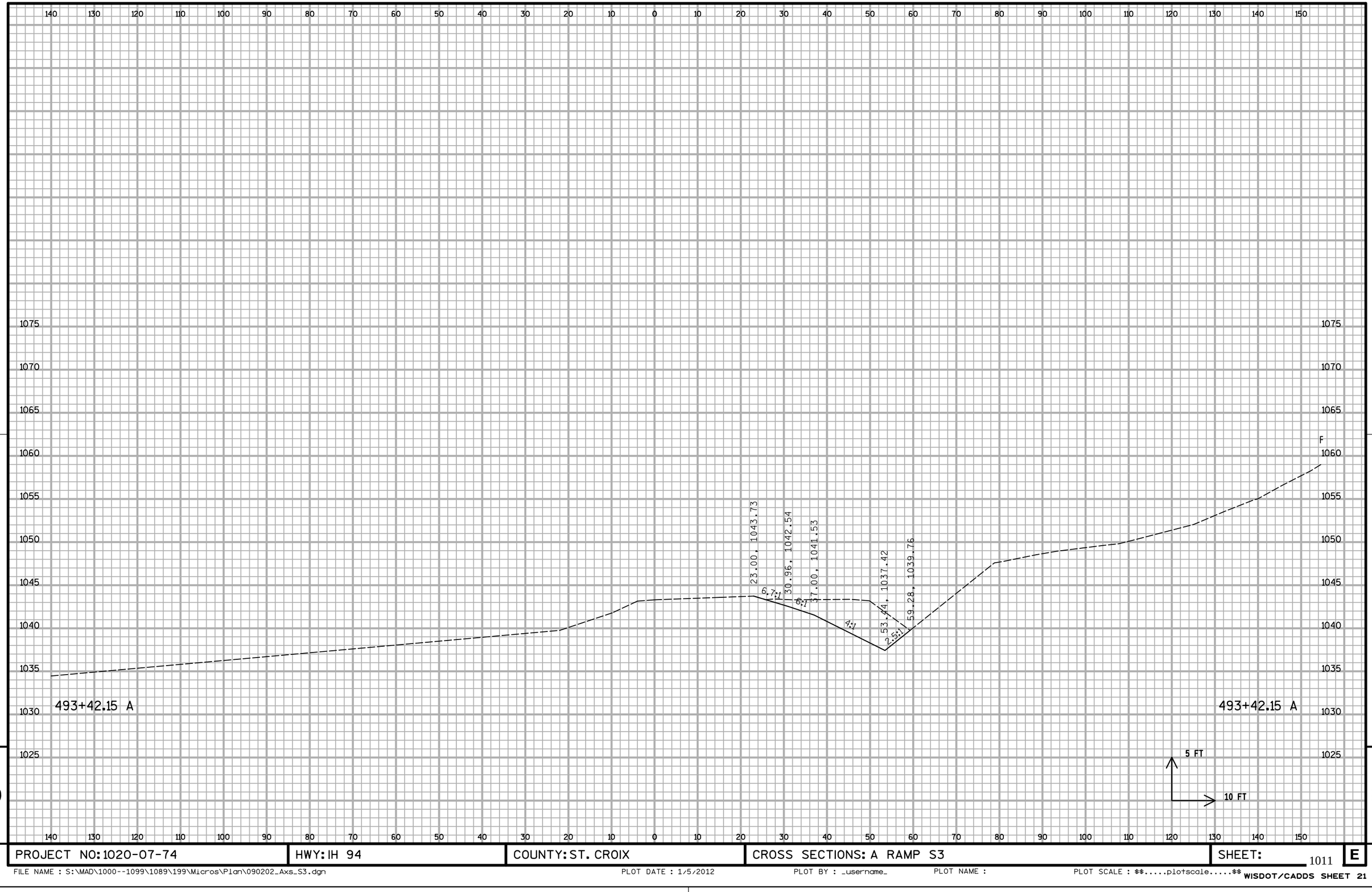
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: A RAMP S3	SHEET: 1010	E

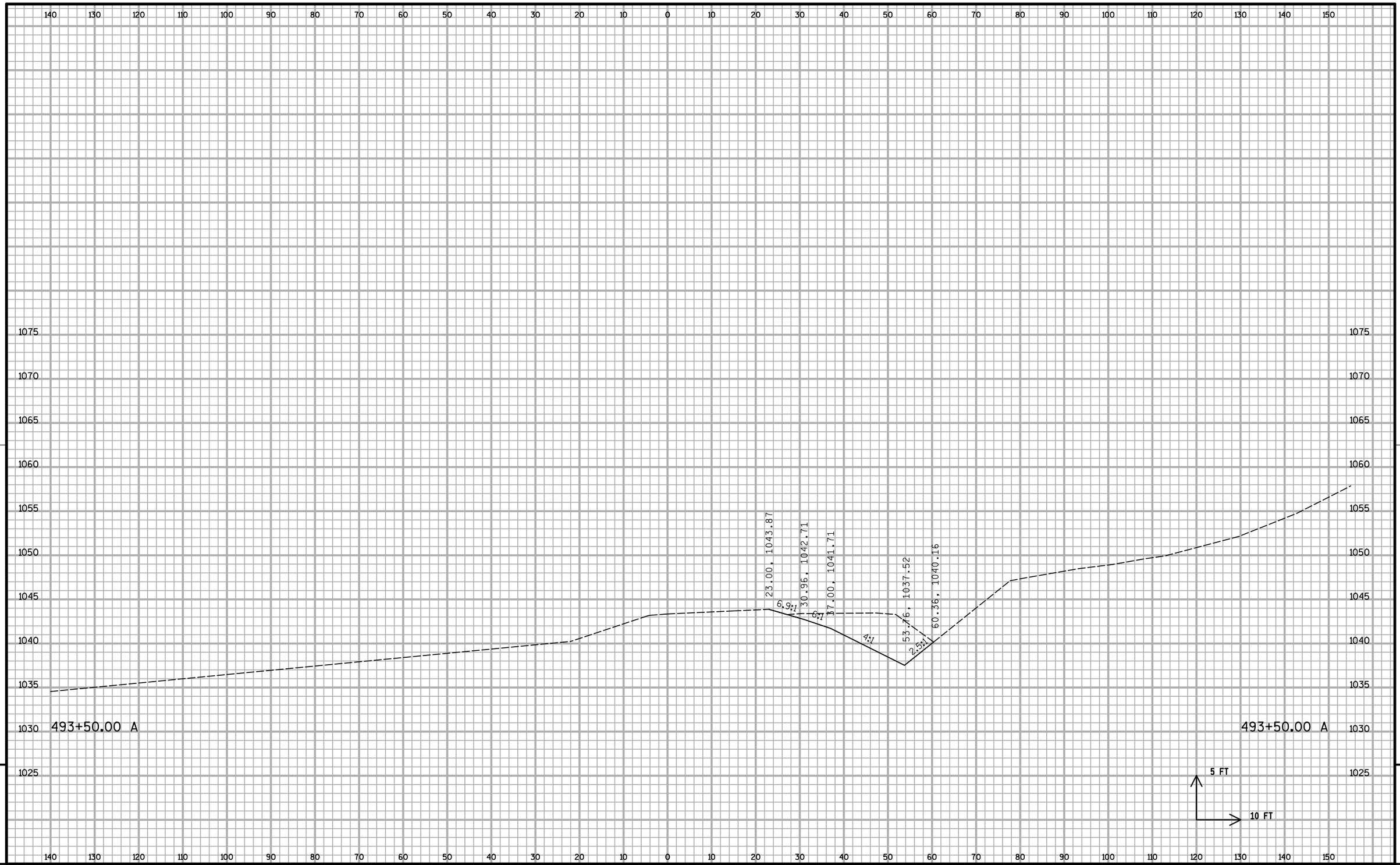


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: A RAMP S3	SHEET: 1011	E

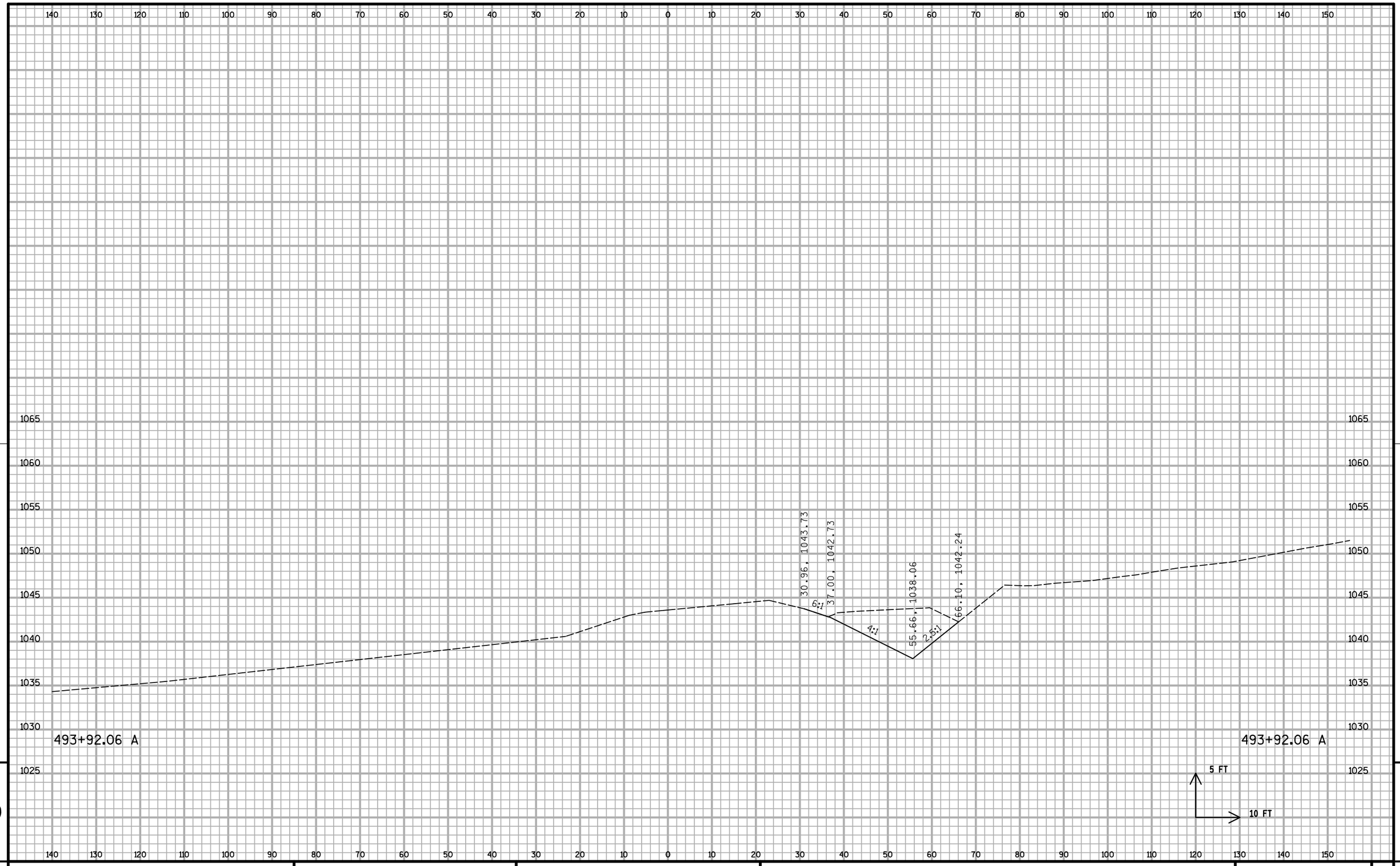
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: A RAMP S3	SHEET: 1012	E

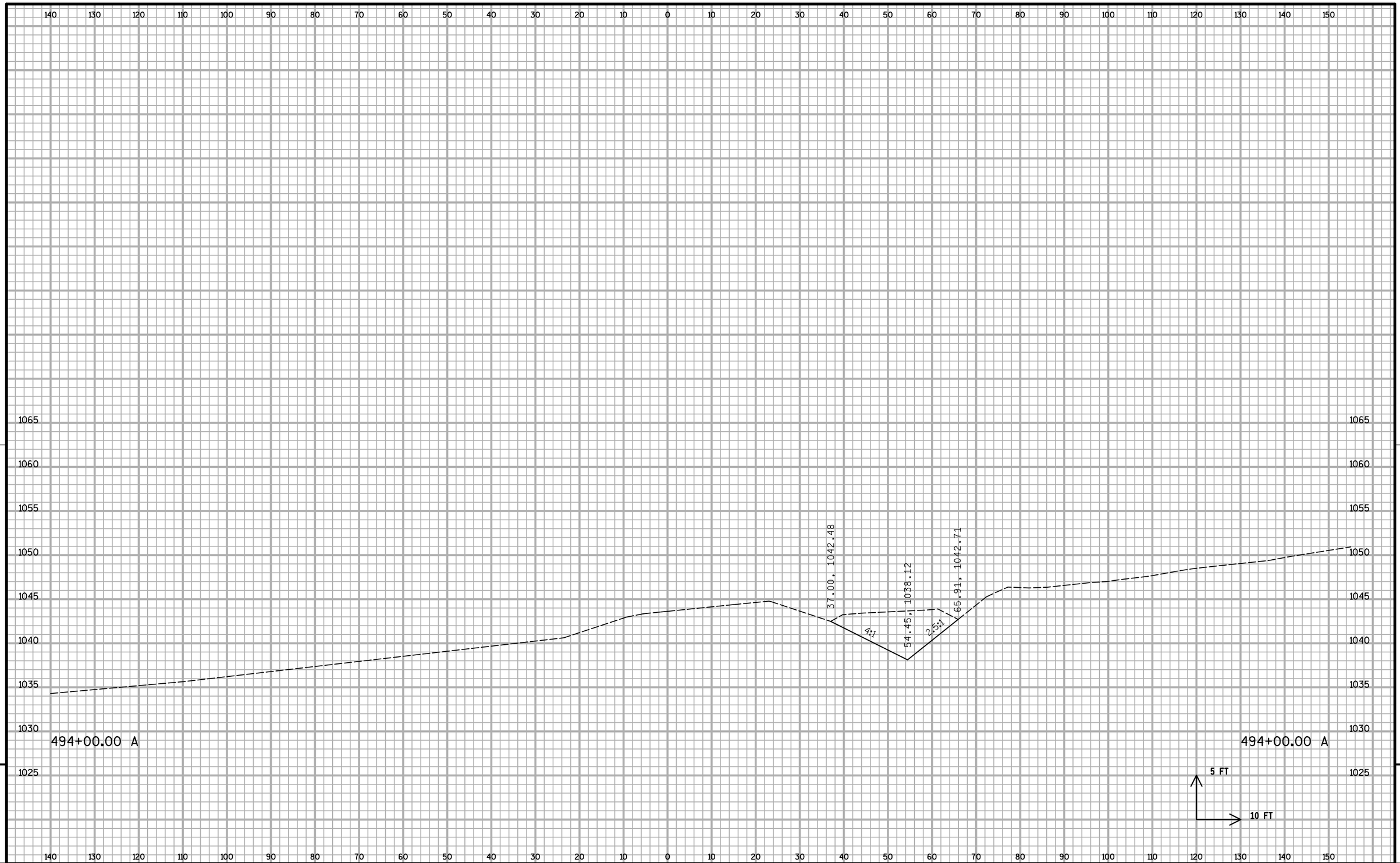


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: A RAMP S3	SHEET: 1013 E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090202_Axs_S3.dgn PLOT DATE : 1/5/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: A RAMP S3	SHEET: 1014	E

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140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

1080
1075
1070
1065
1060
1055
1050
1045
1040
1035
1030
1025

55.78, 1038.72
87.46, 1038.72
106.97, 1042.40
5.31%

494+50.00 A

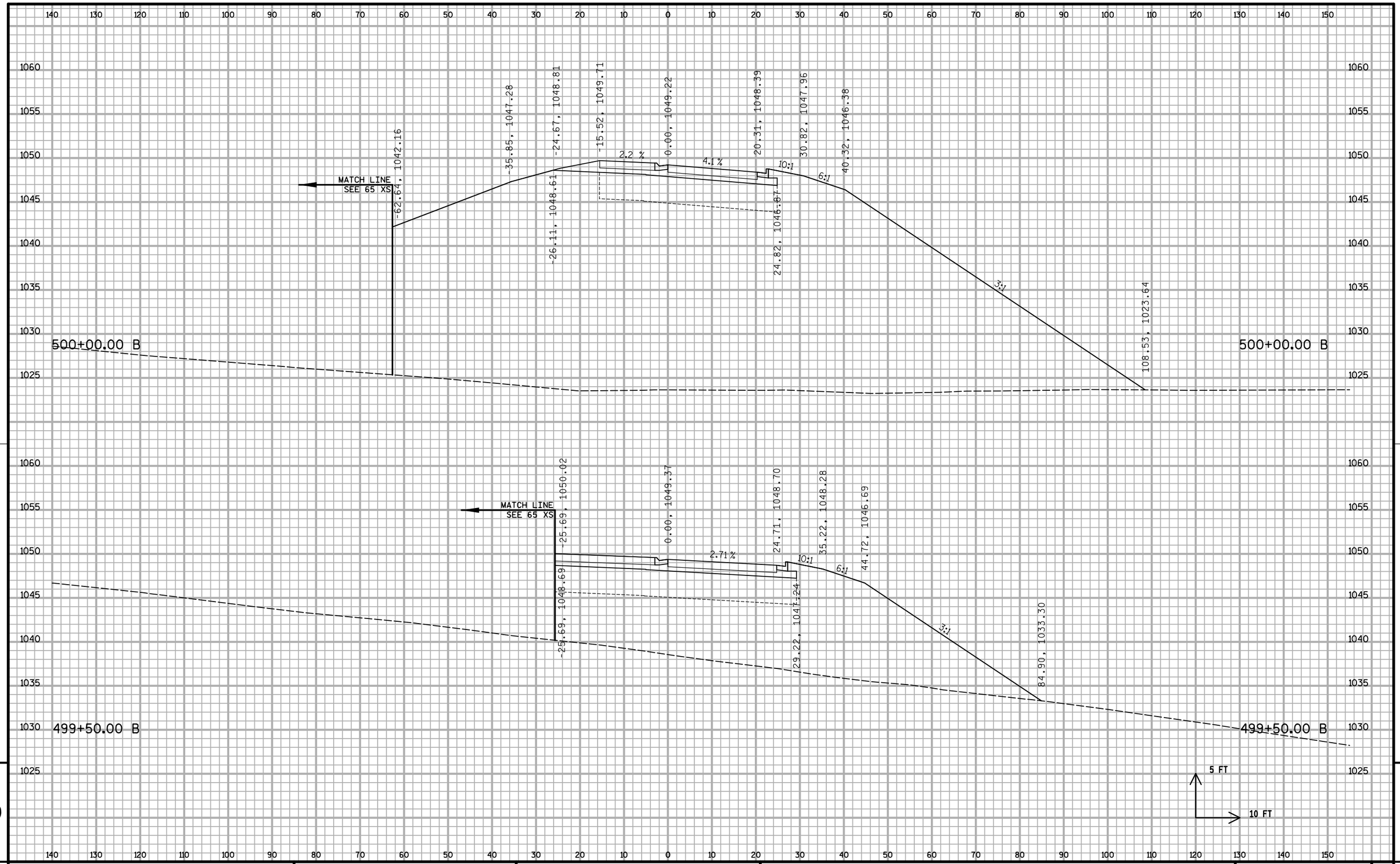
494+50.00 A

5 FT
10 FT

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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: A RAMP S3	SHEET: 1015	E



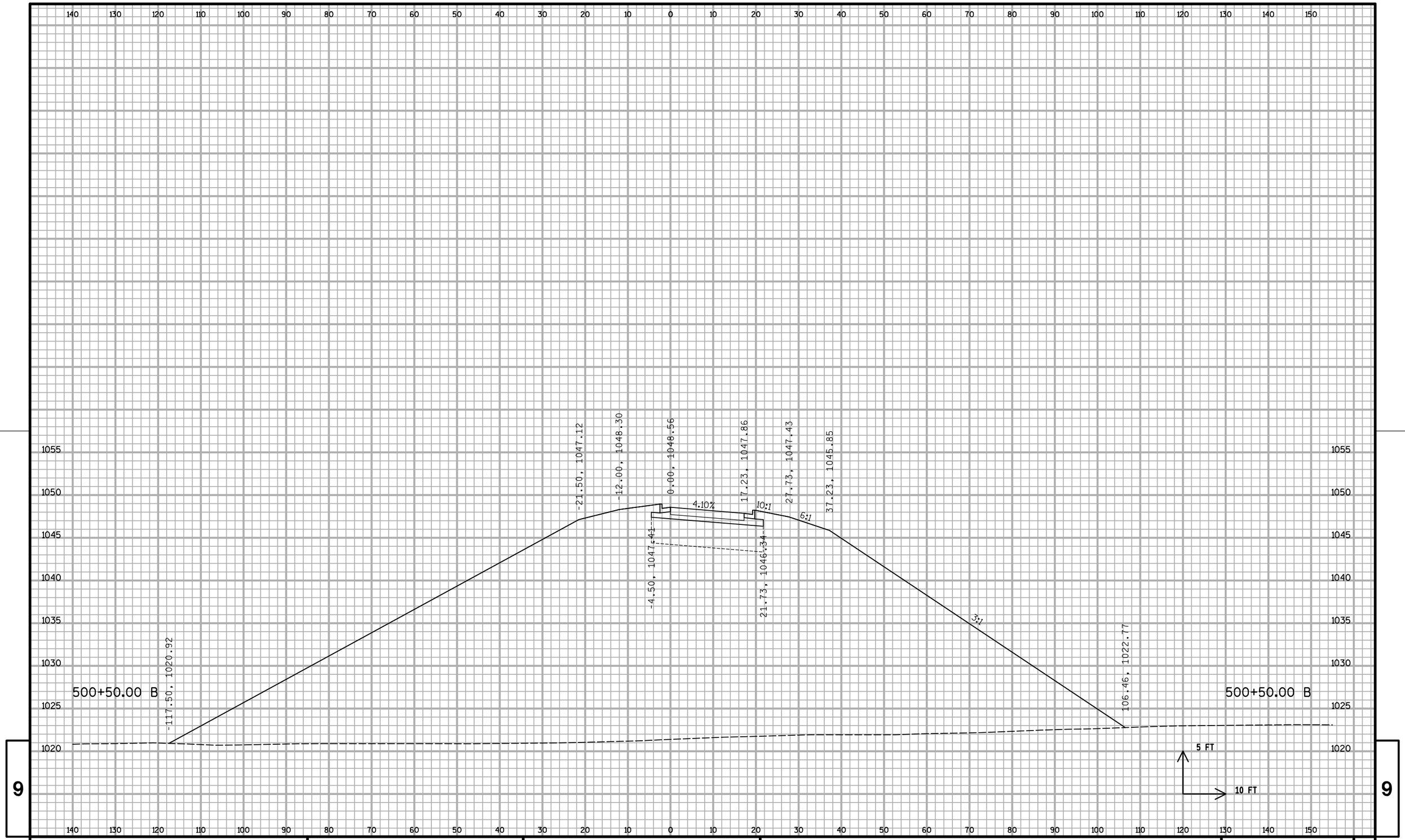
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: B RAMP S2	SHEET:	E

1016

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090203_Bxs_S2.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



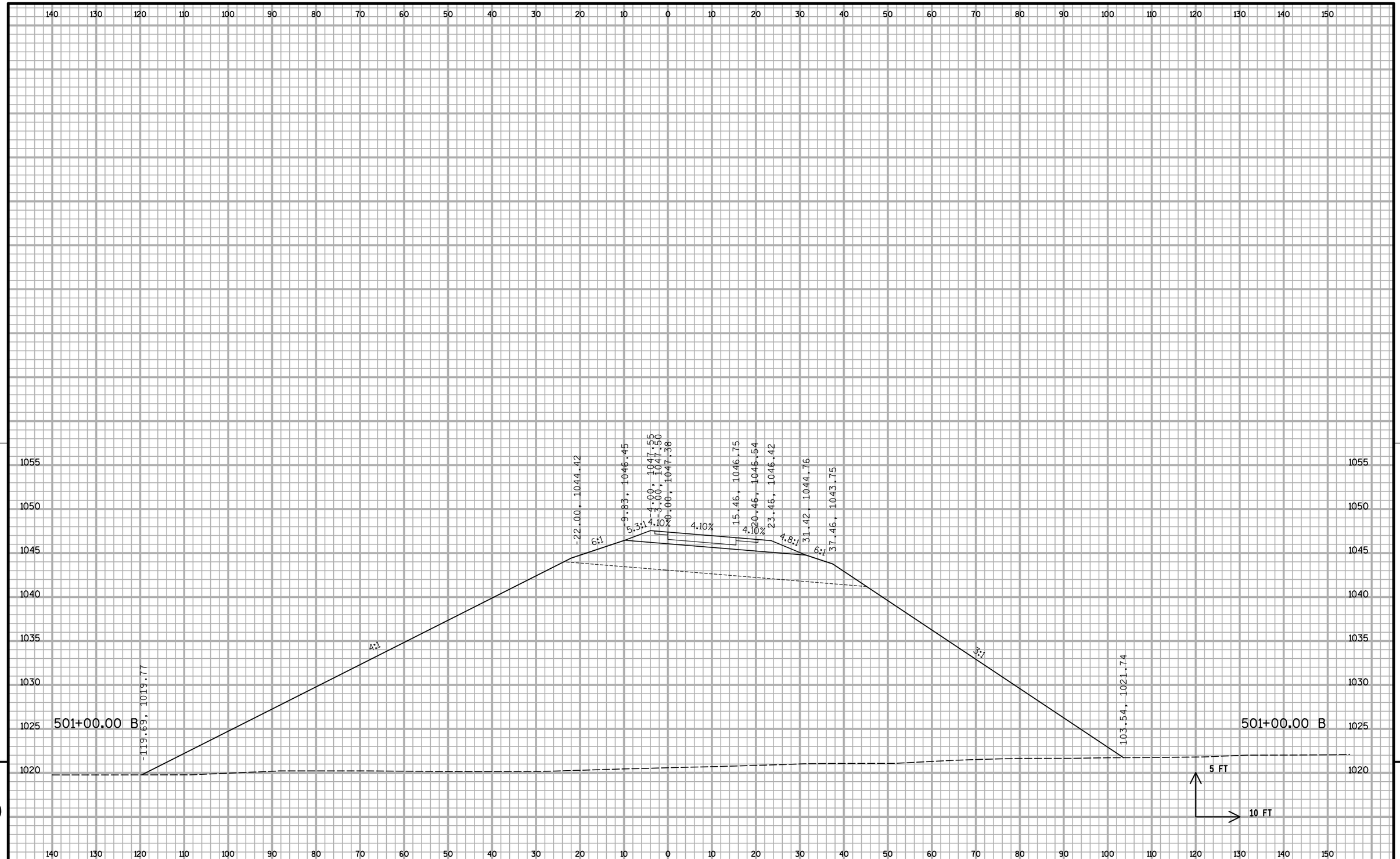
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: B RAMP S2	SHEET: 1017 E

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WISDOT/CADDS SHEET 21

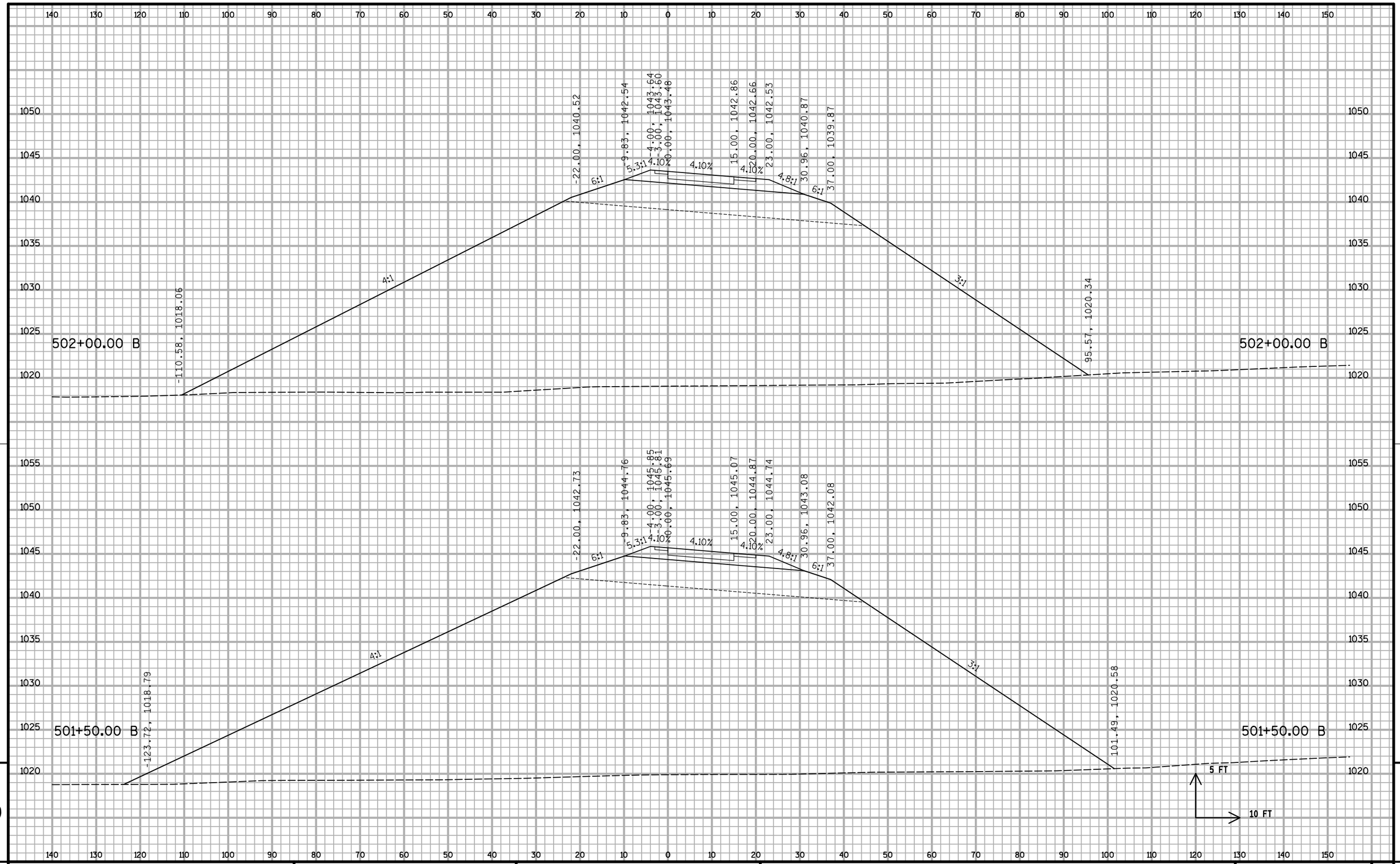


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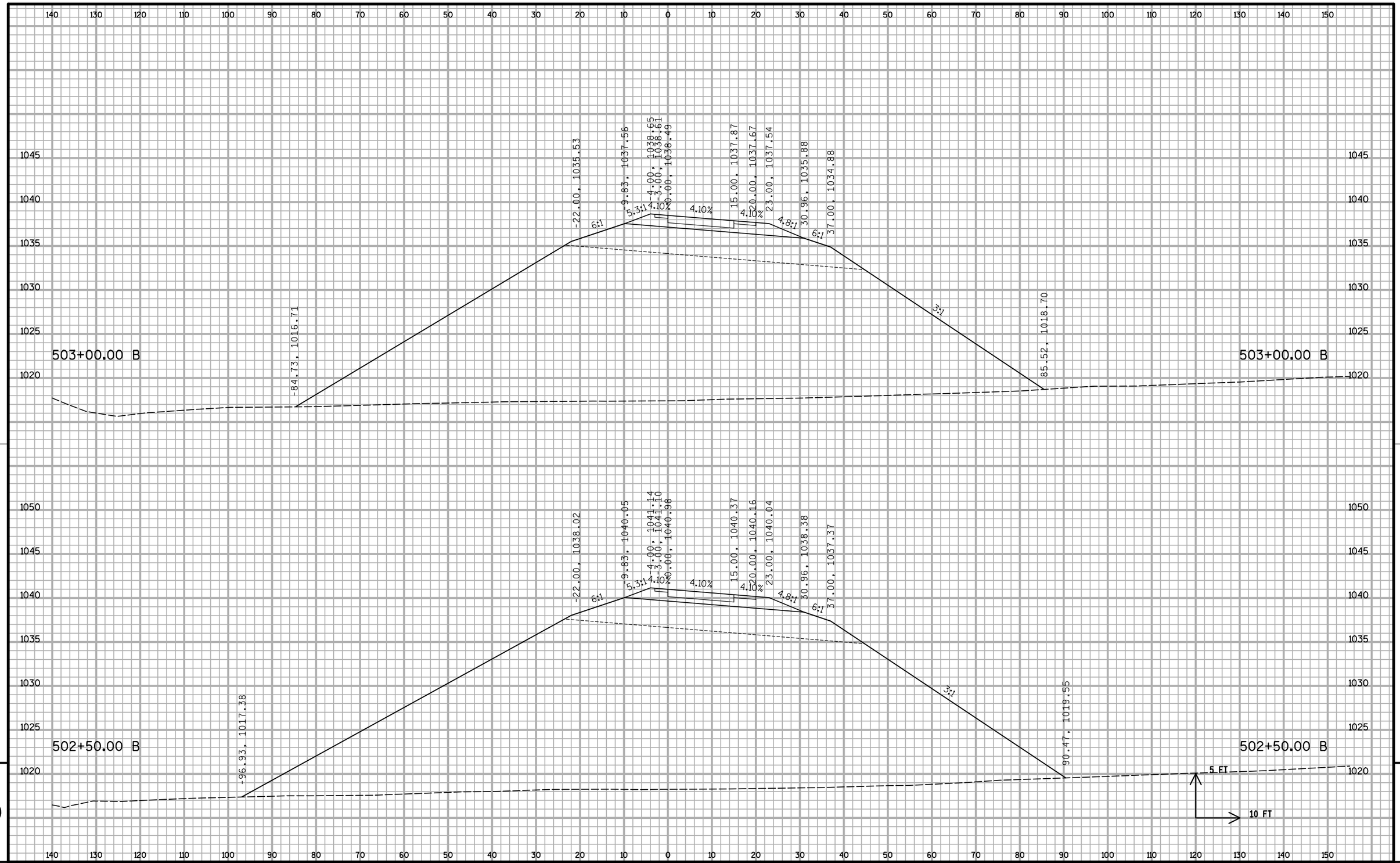
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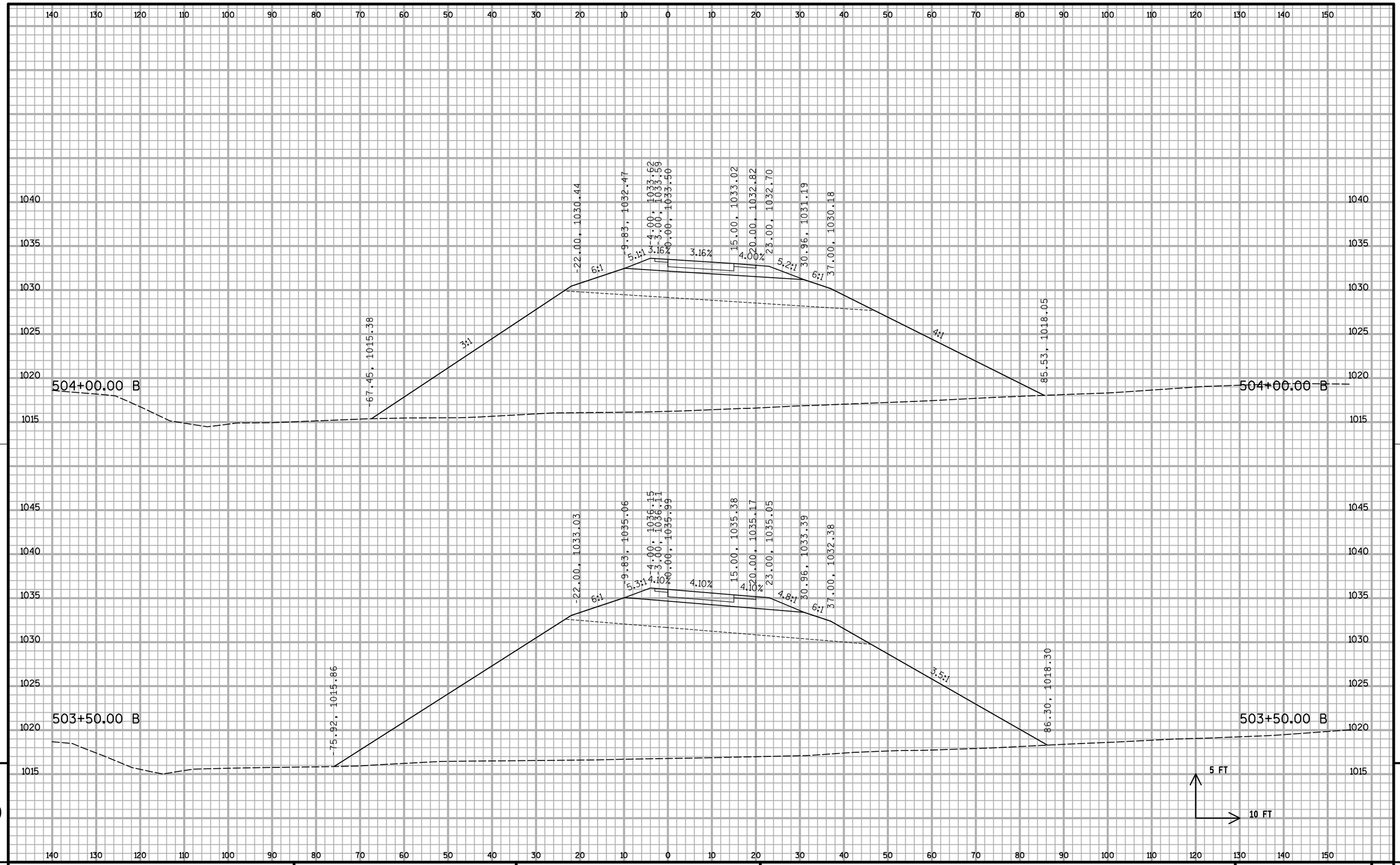
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: B RAMP S2	SHEET:	E

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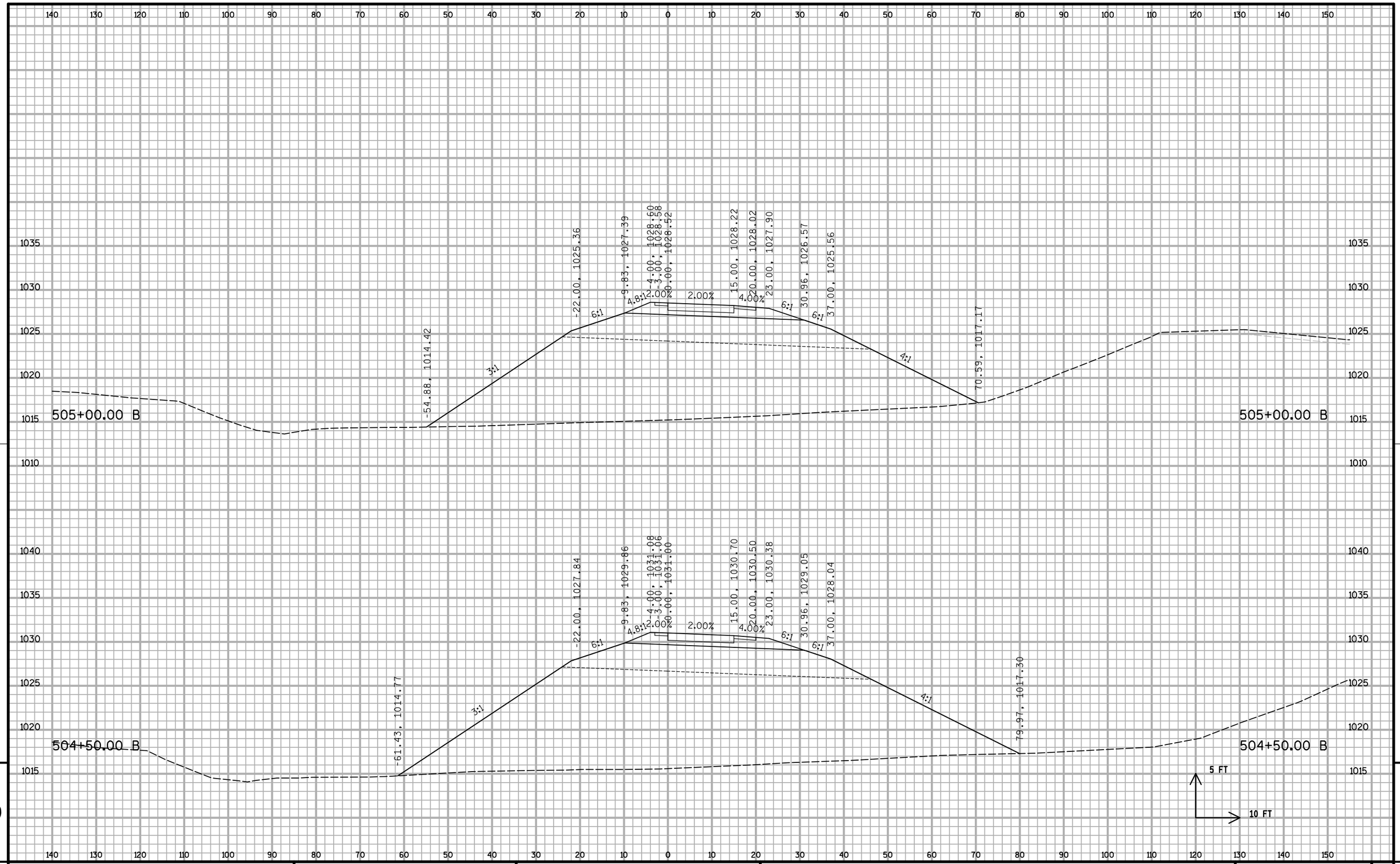
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: B RAMP S2	SHEET:	E

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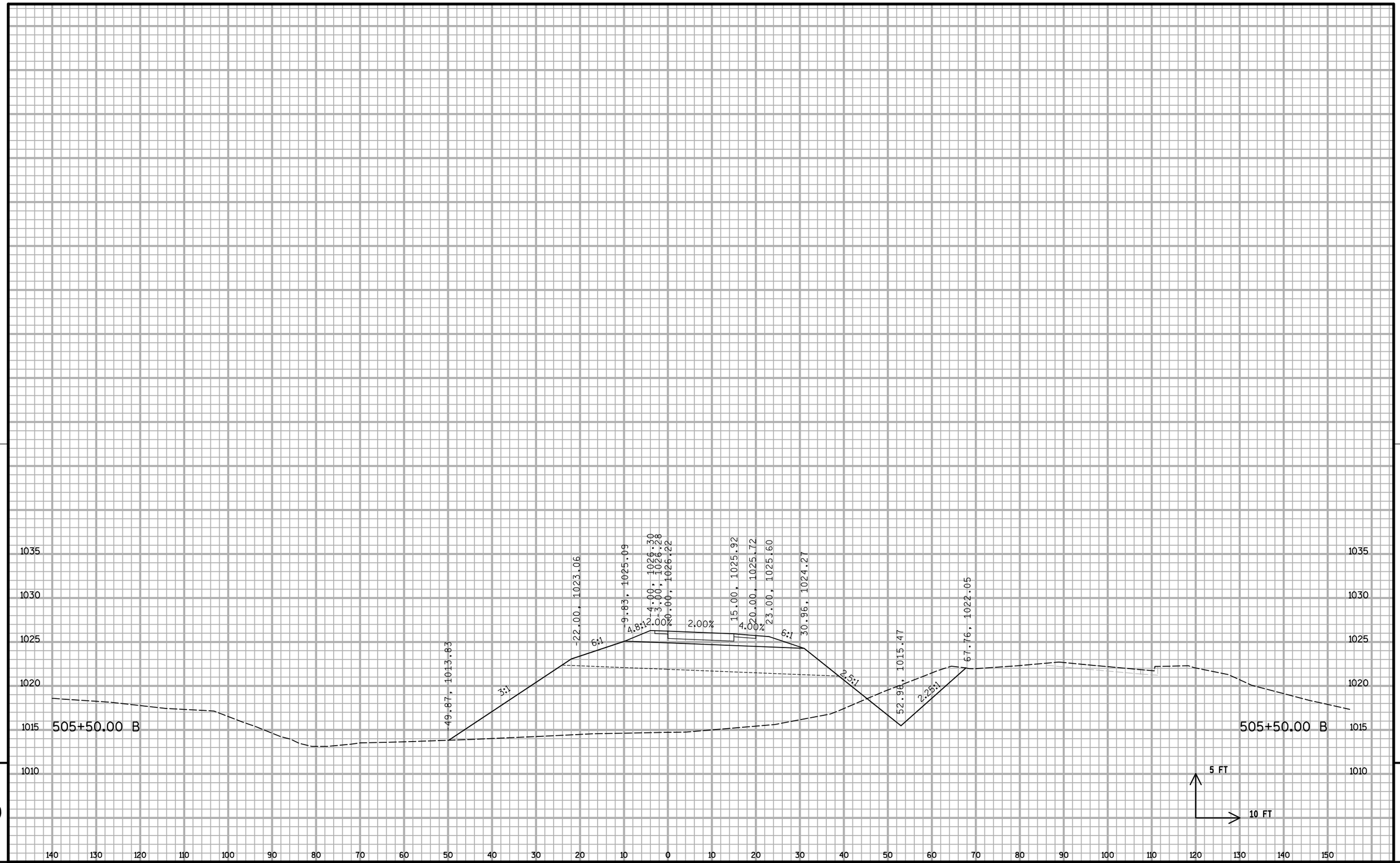


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: B RAMP S2	SHEET:	E

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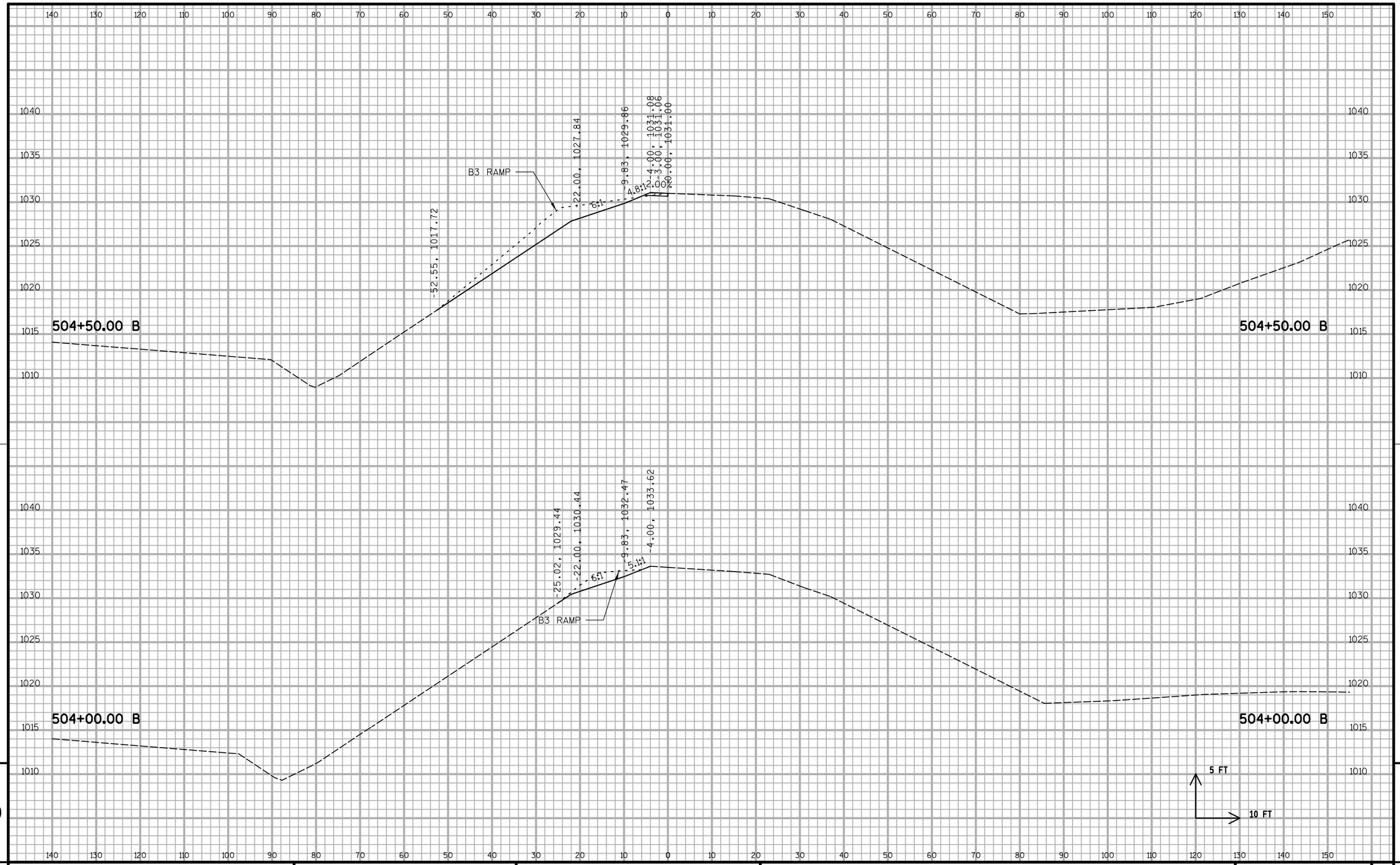


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: B RAMP S2	SHEET:	E

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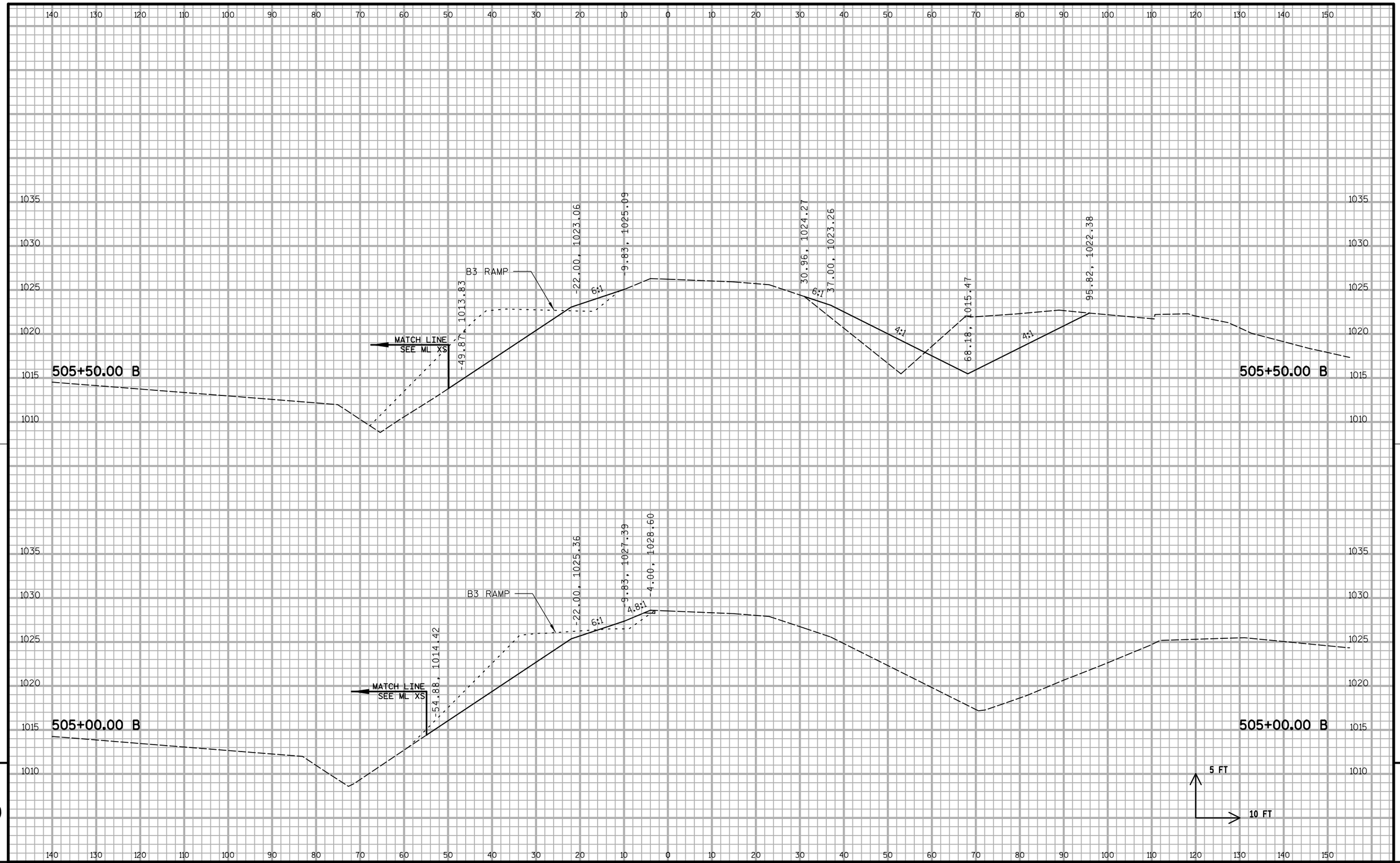


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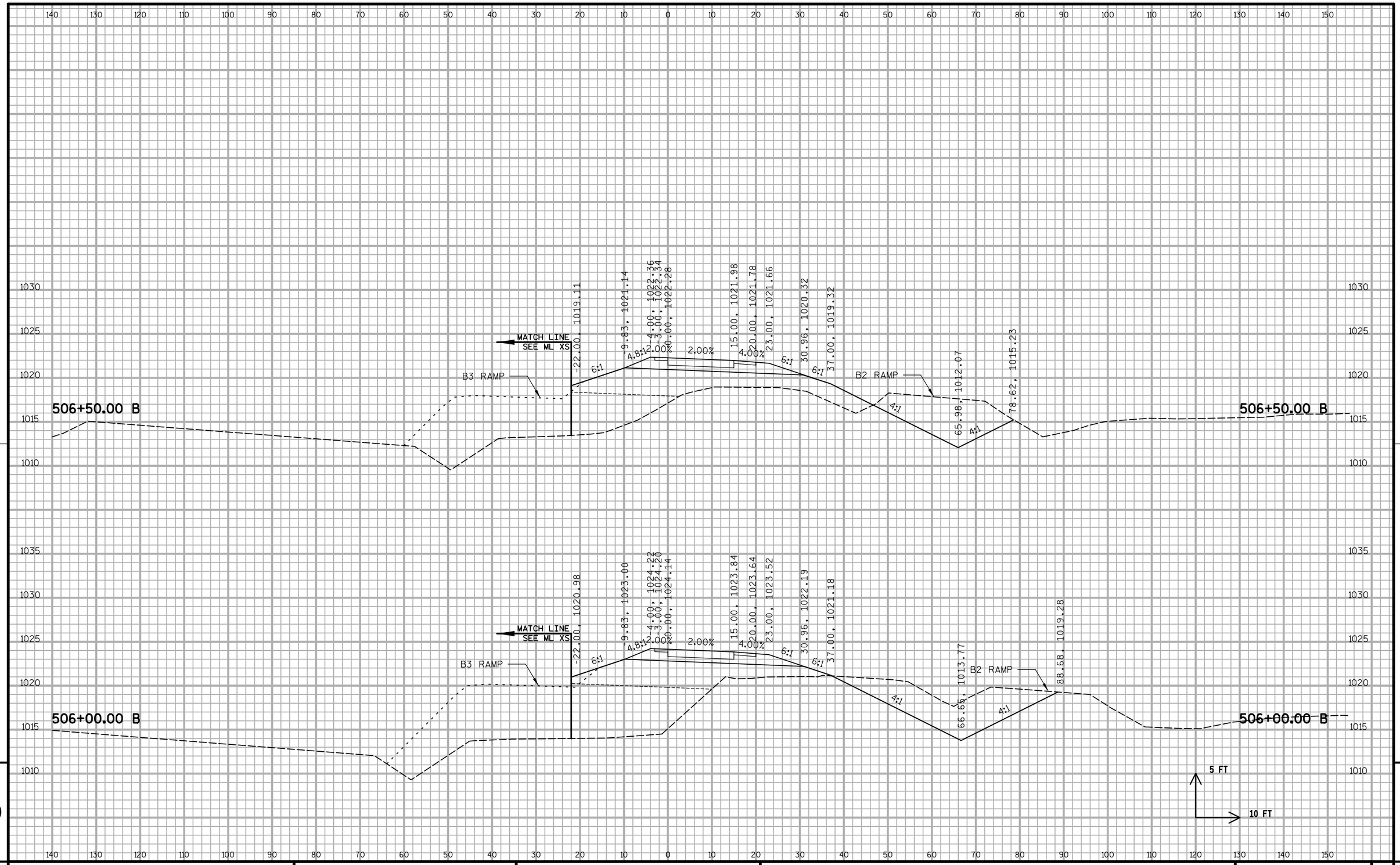
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: B RAMP S3	SHEET: 1024	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090203_Bxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



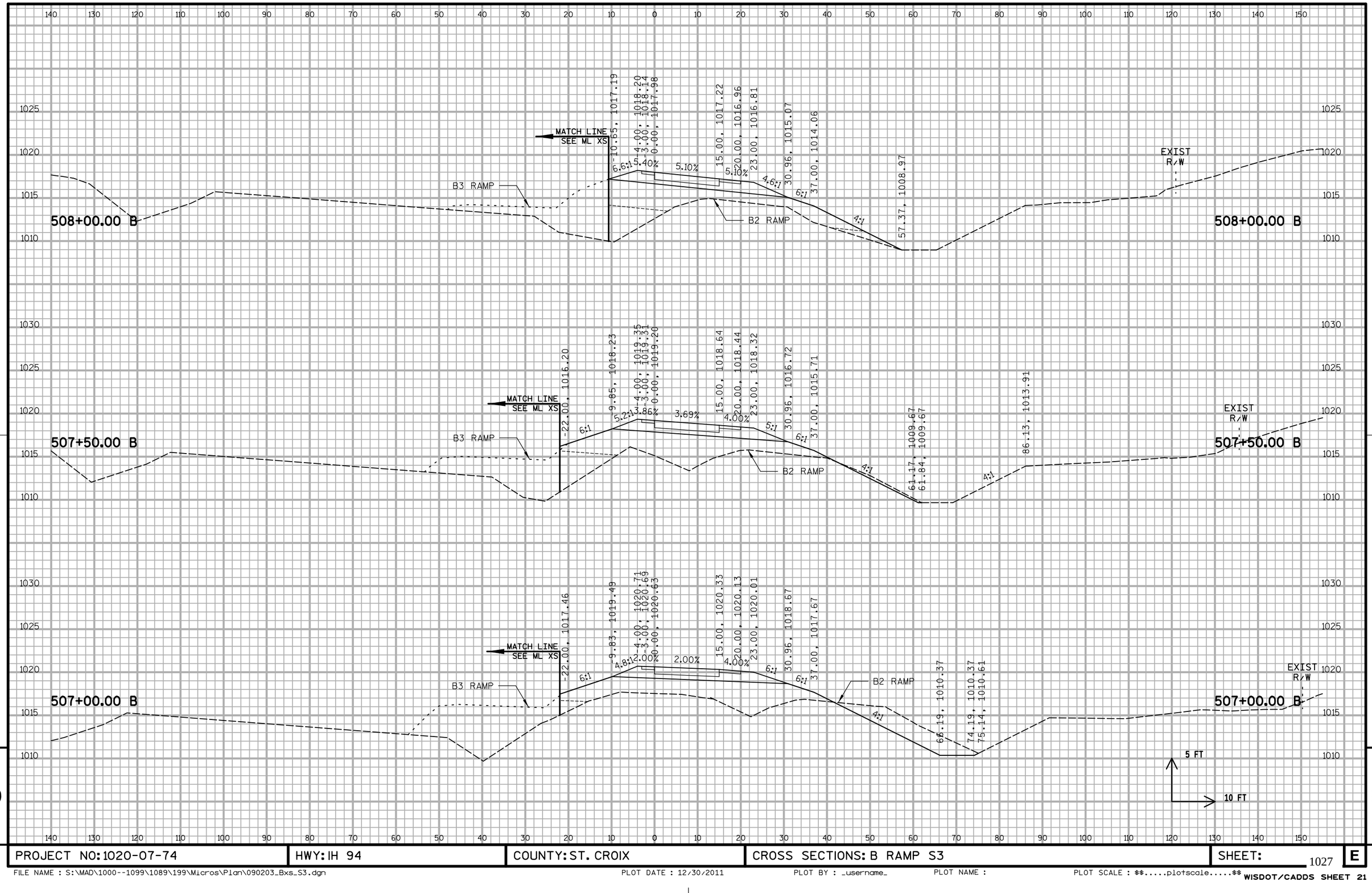
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: B RAMP S3	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090203_Bxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

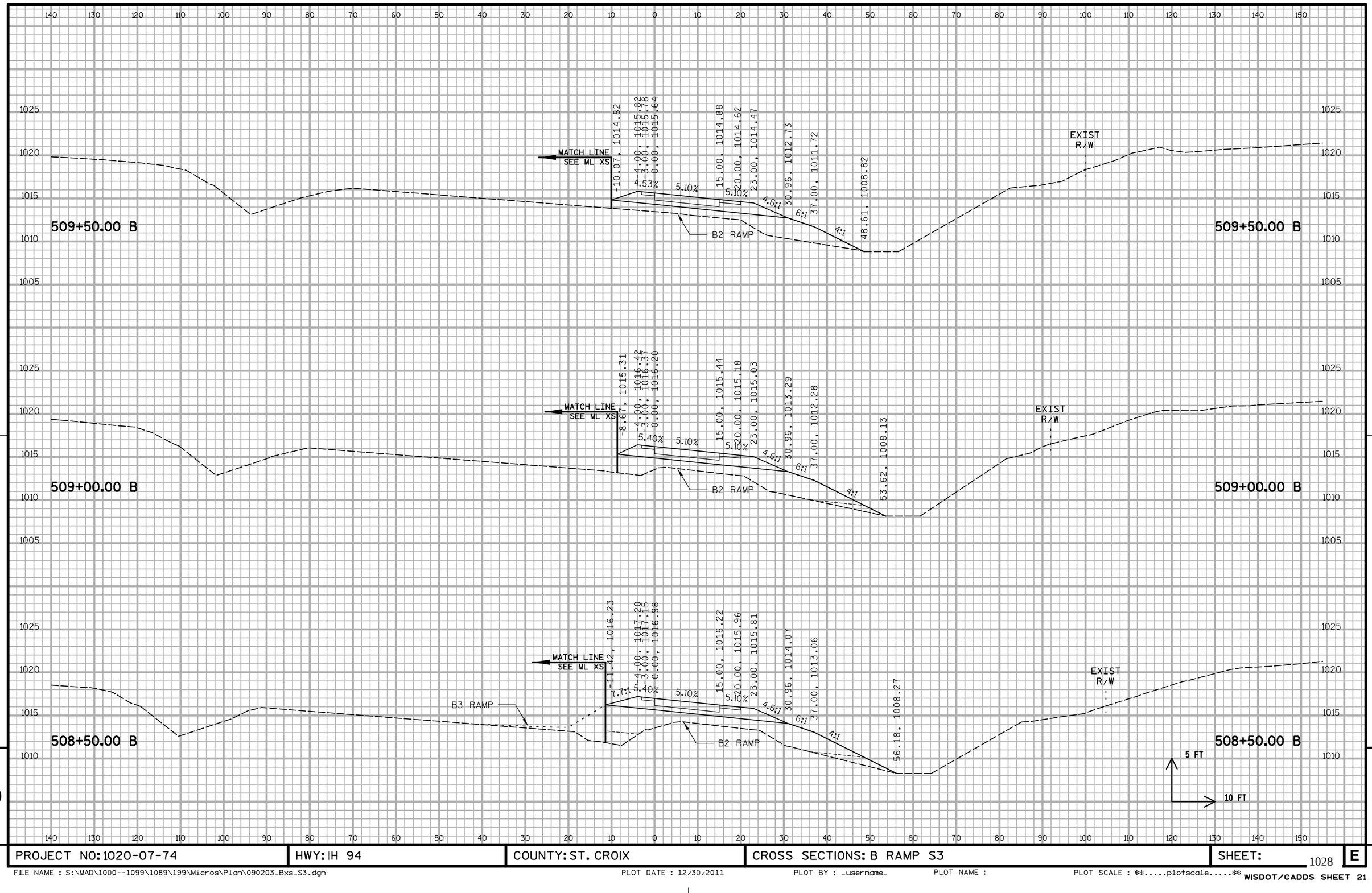


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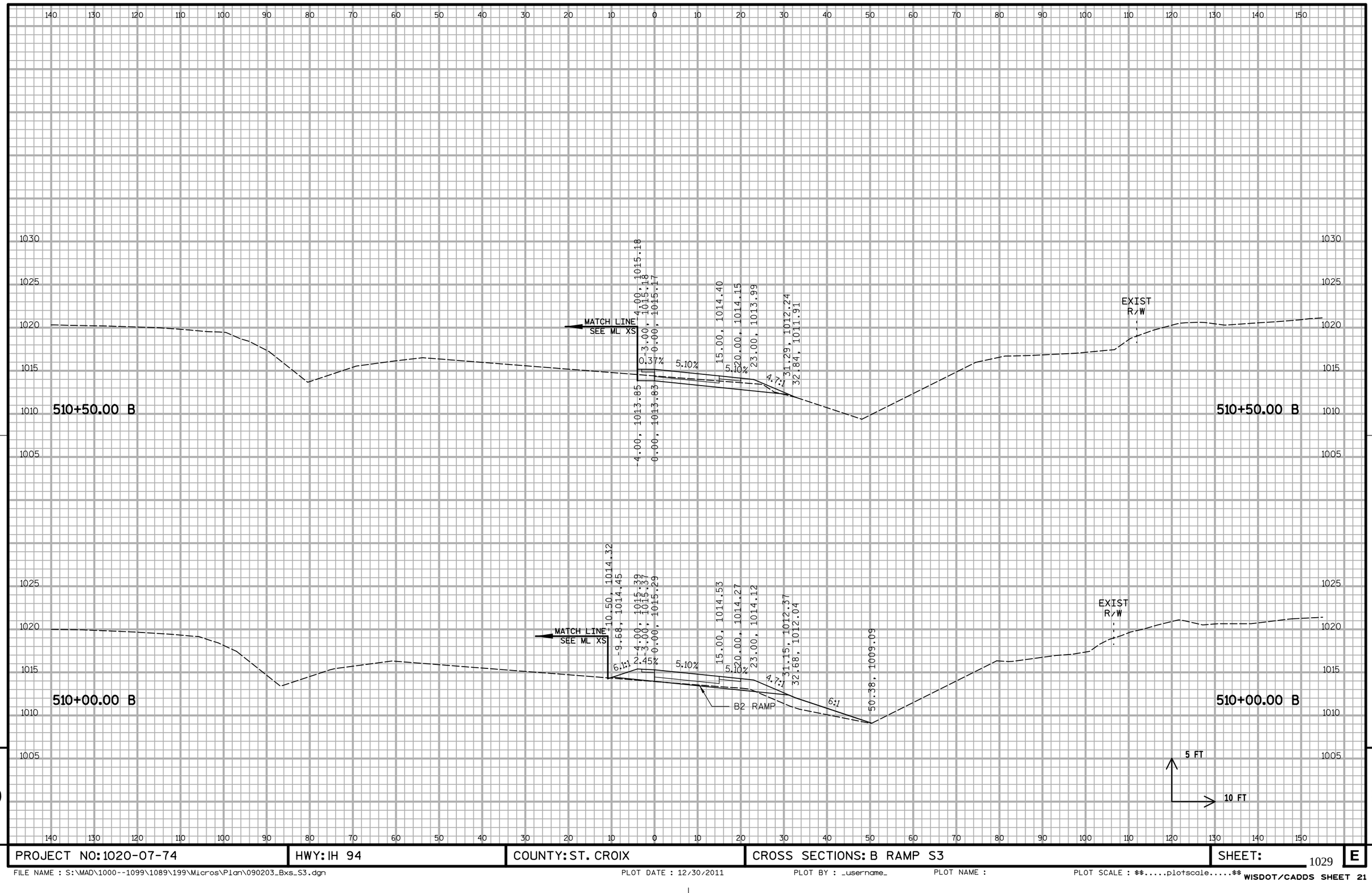
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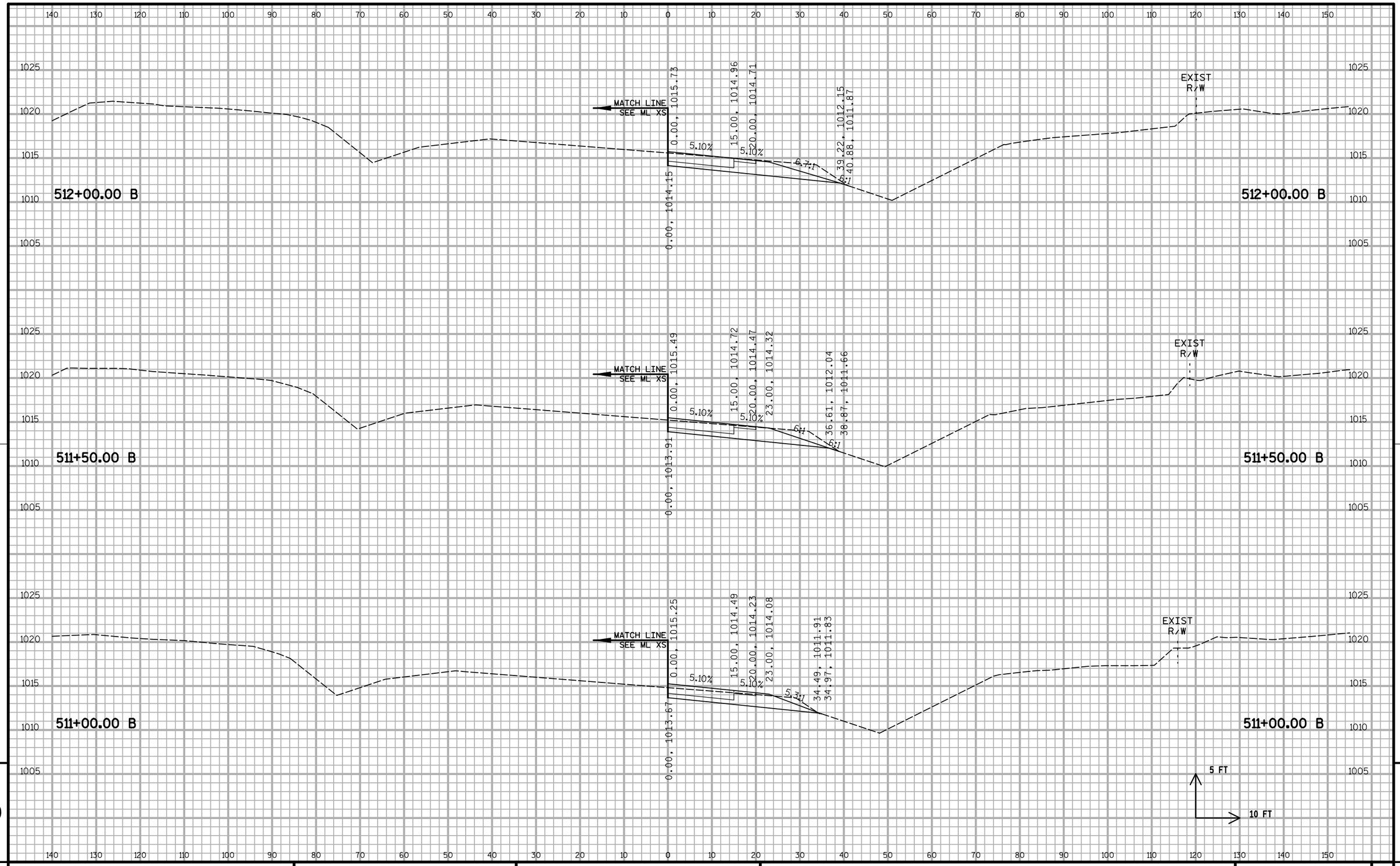
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: B RAMP S3	SHEET:	E

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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: B RAMP S3	SHEET: 1029	E

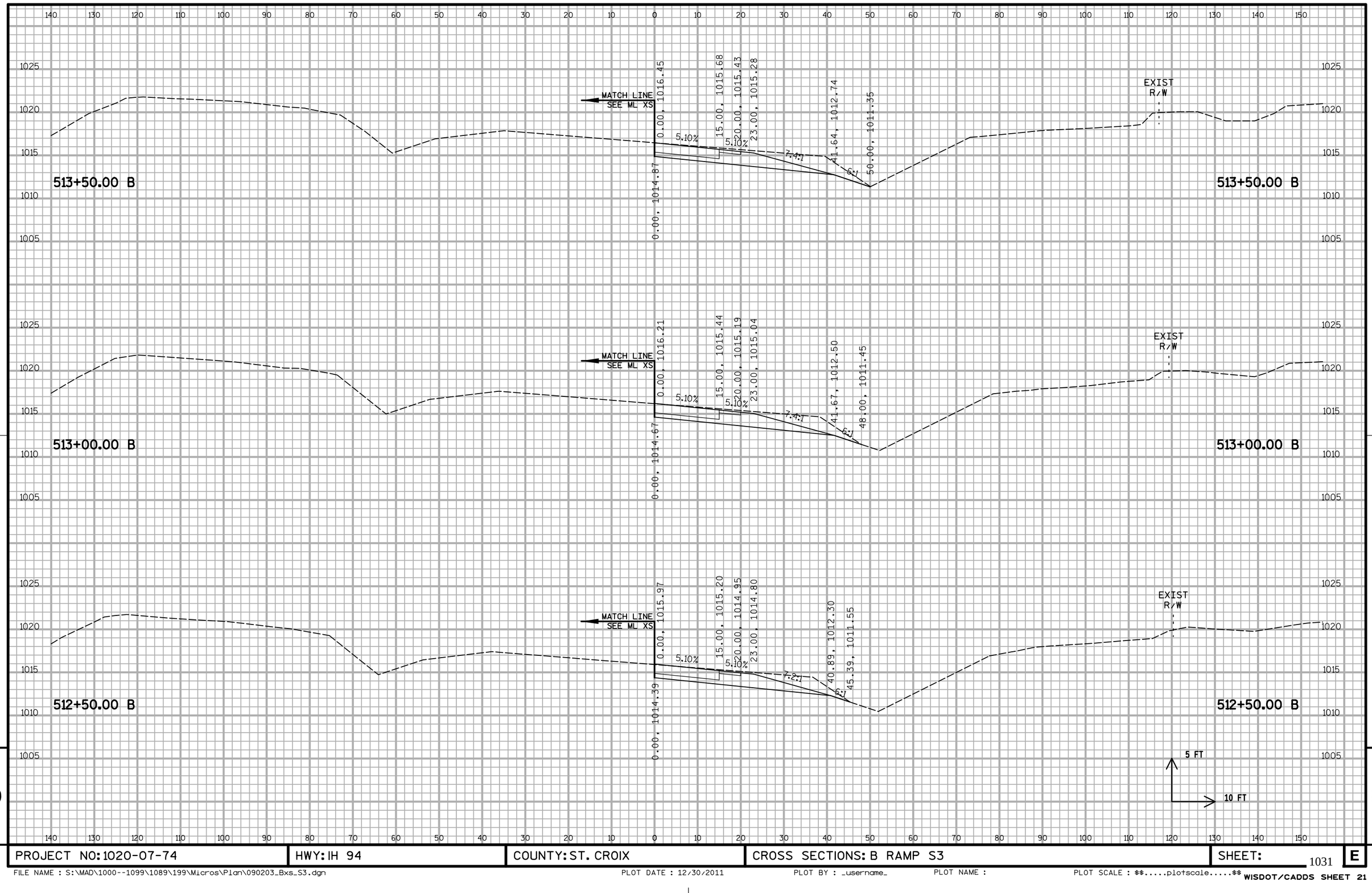
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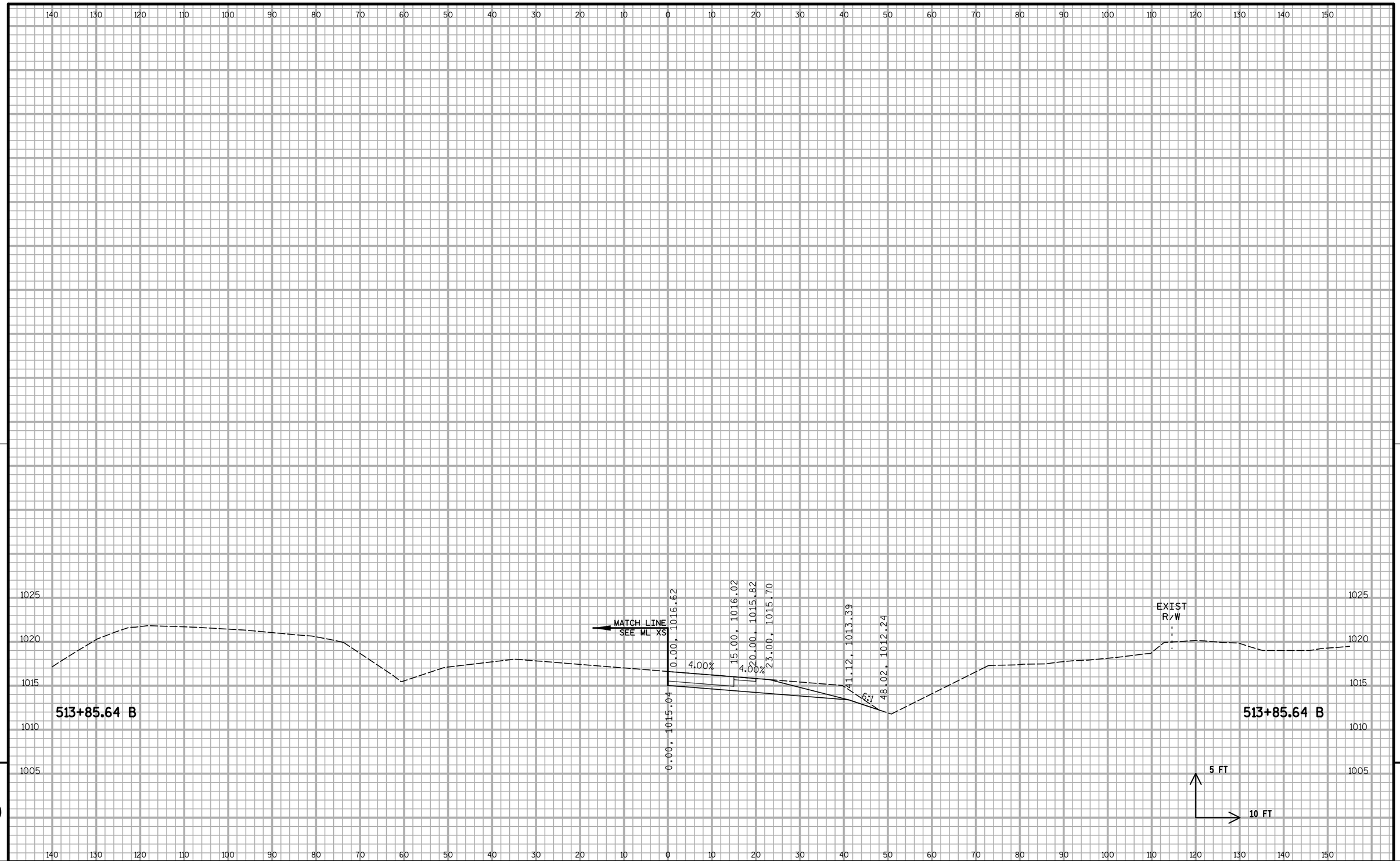
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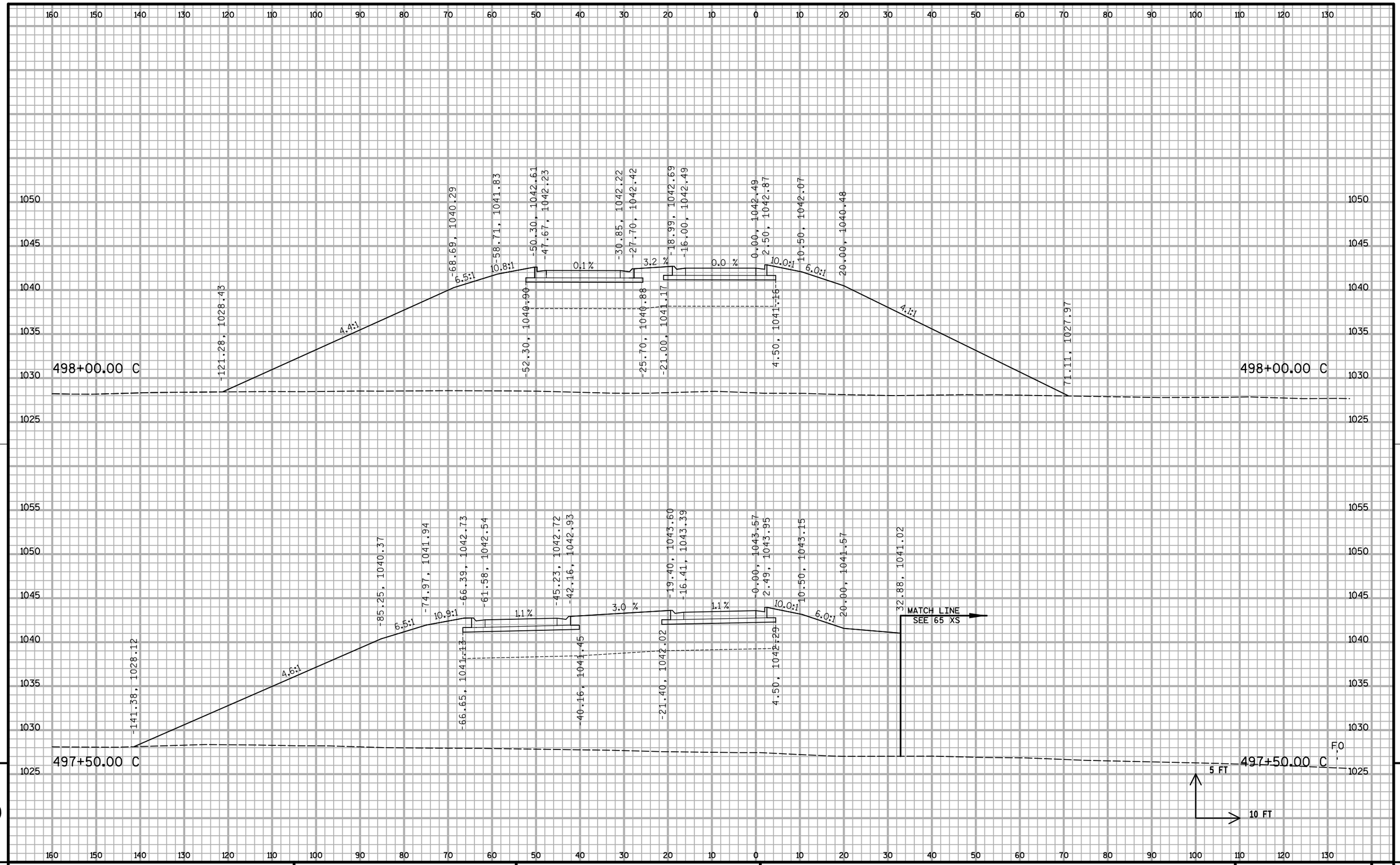
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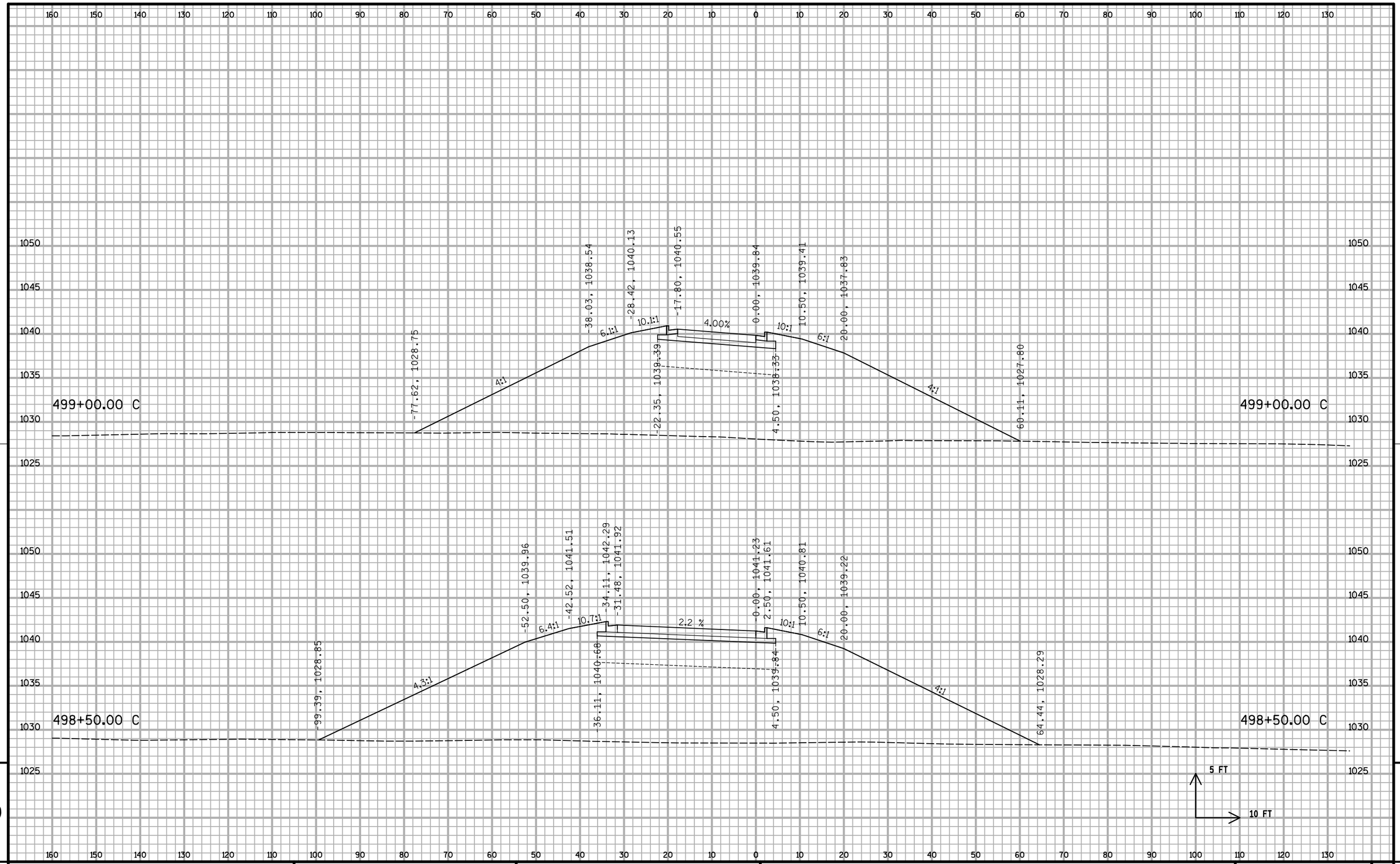
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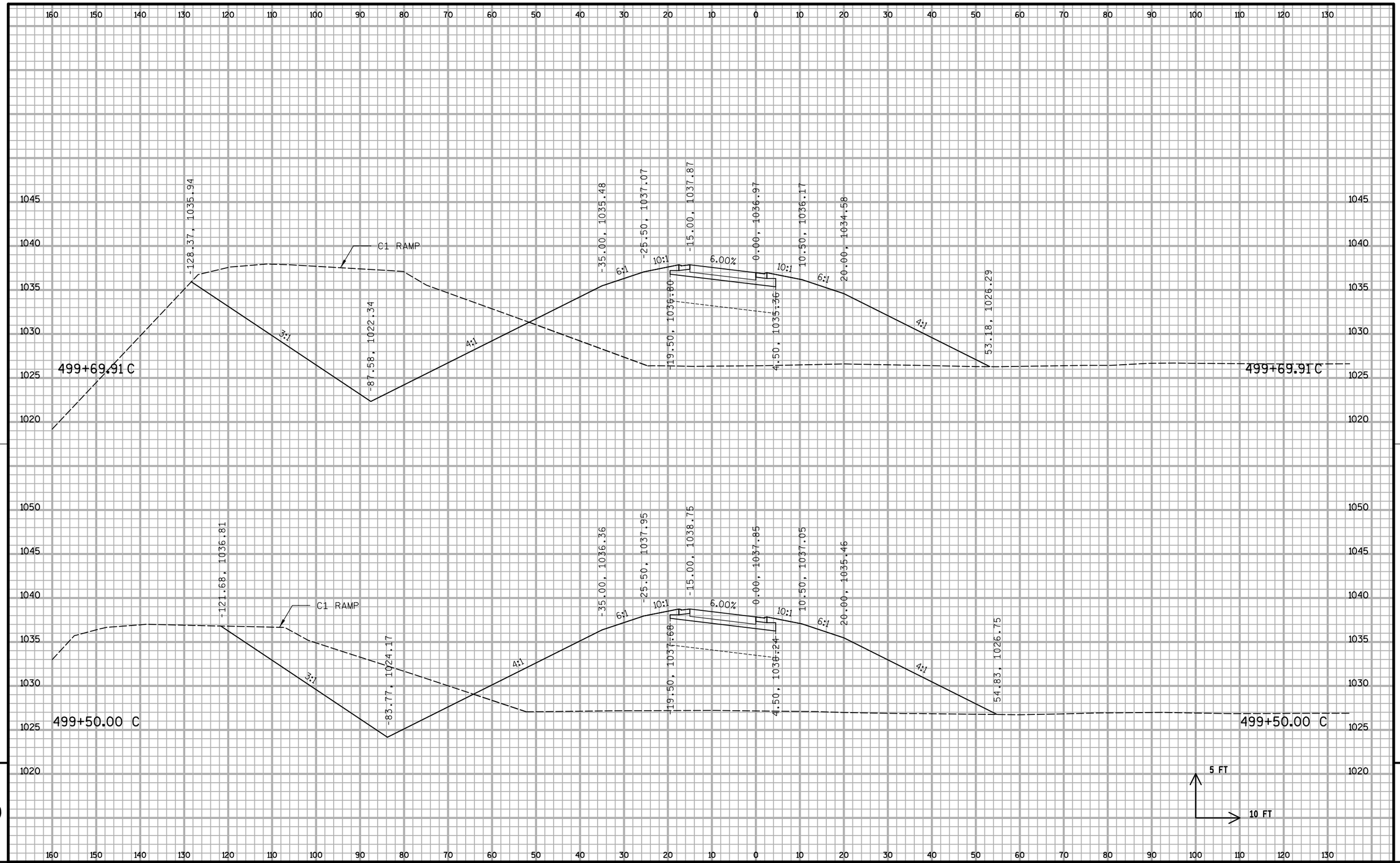
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: C RAMP S3	SHEET:	E

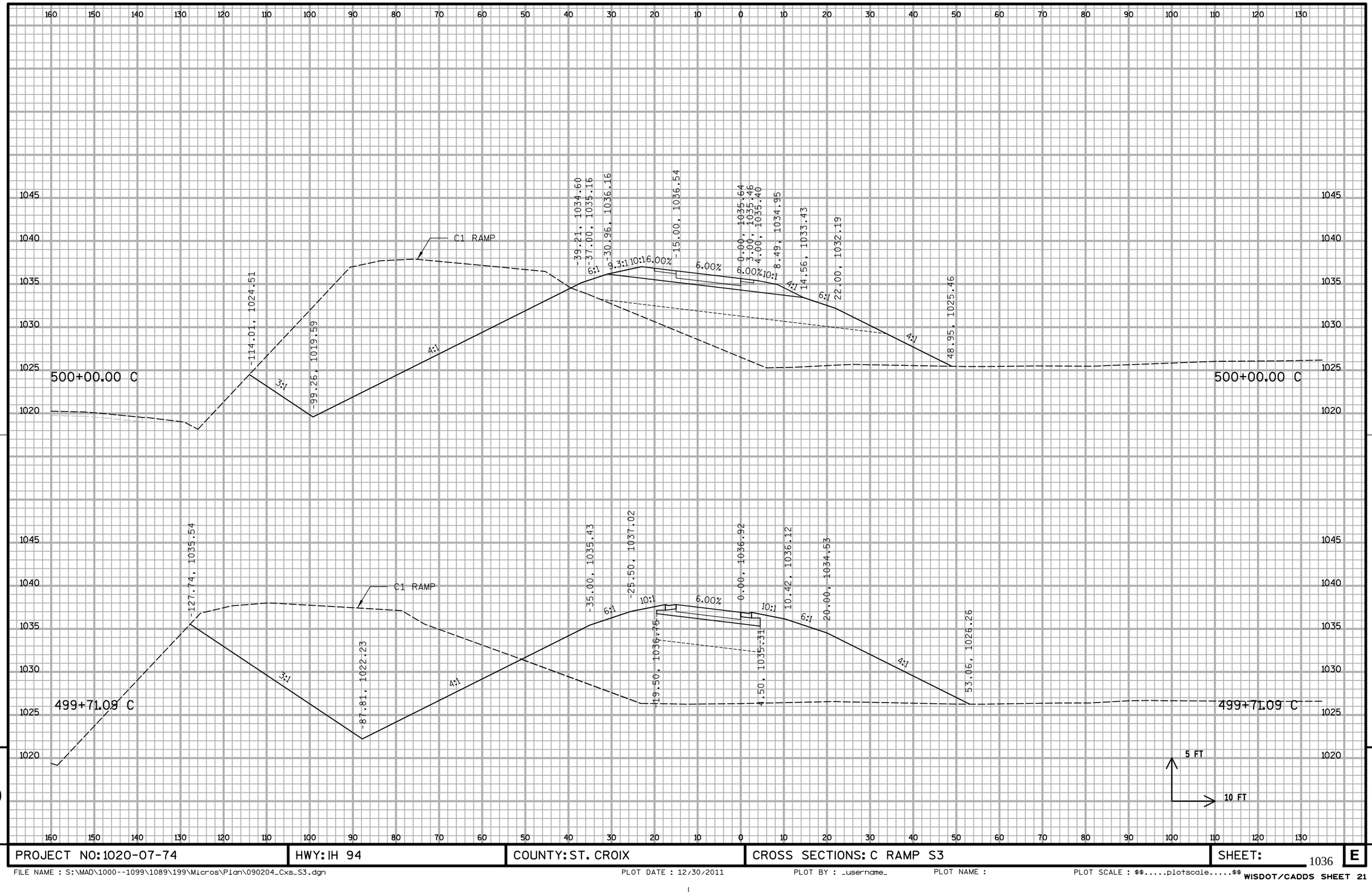
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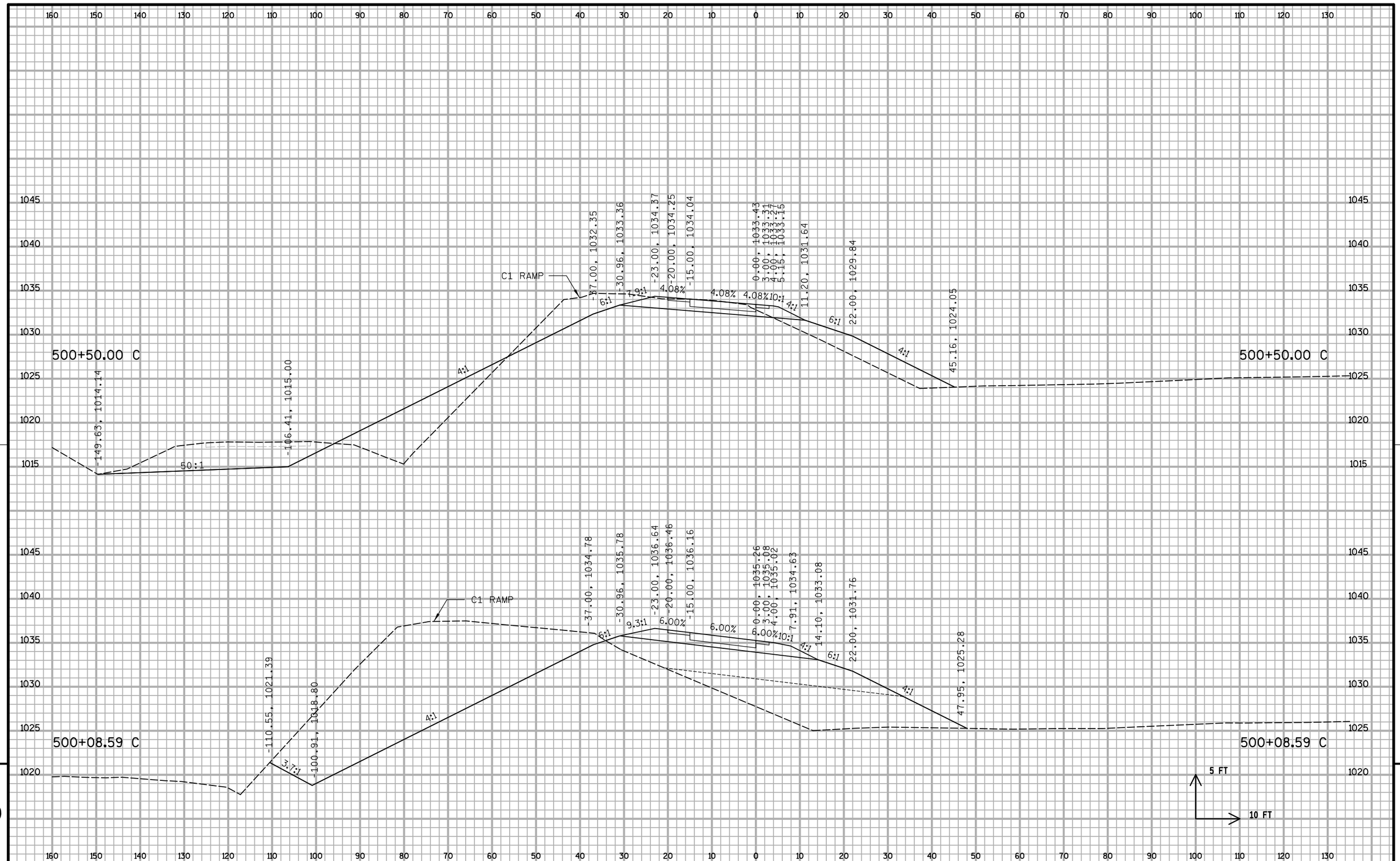
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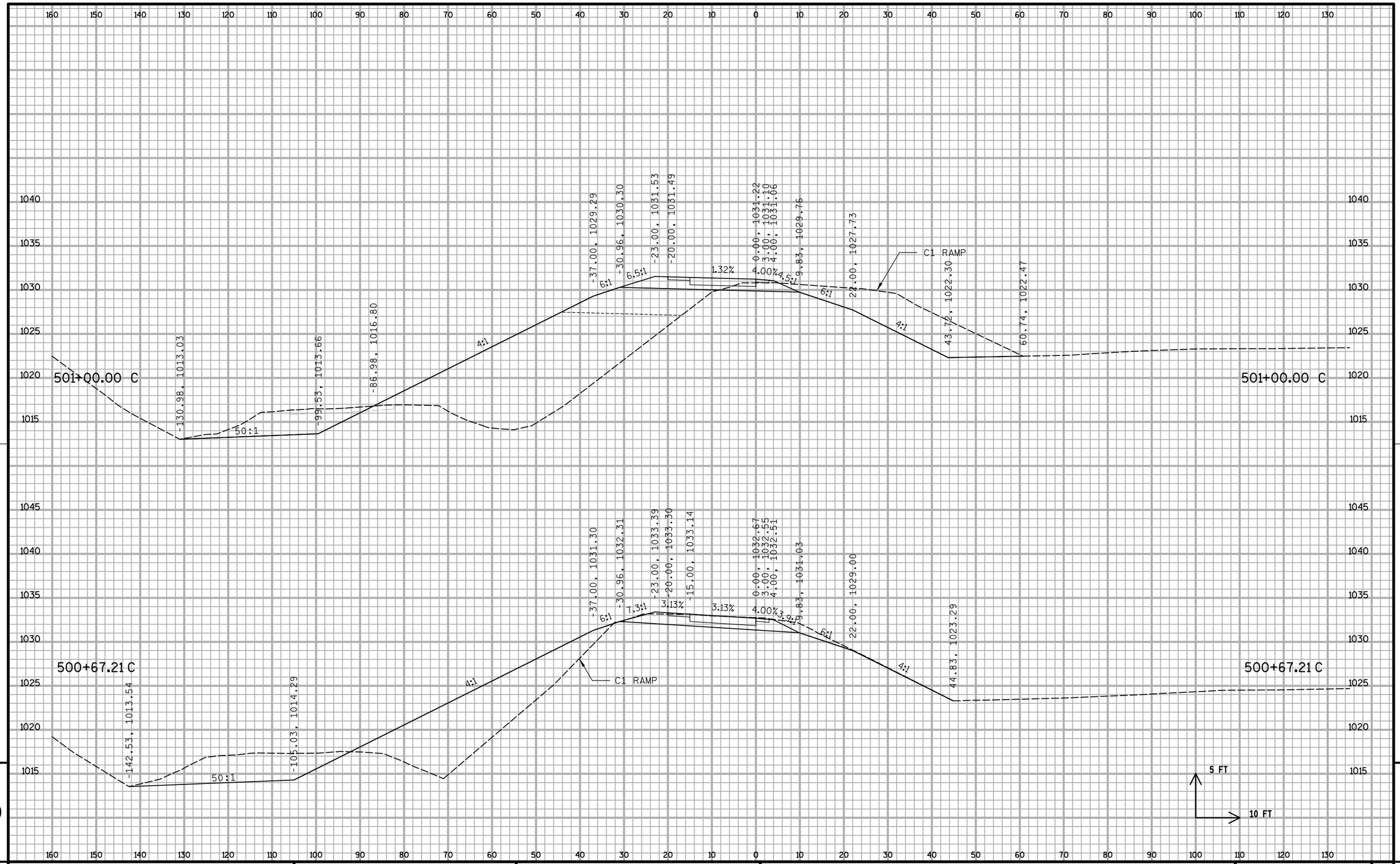
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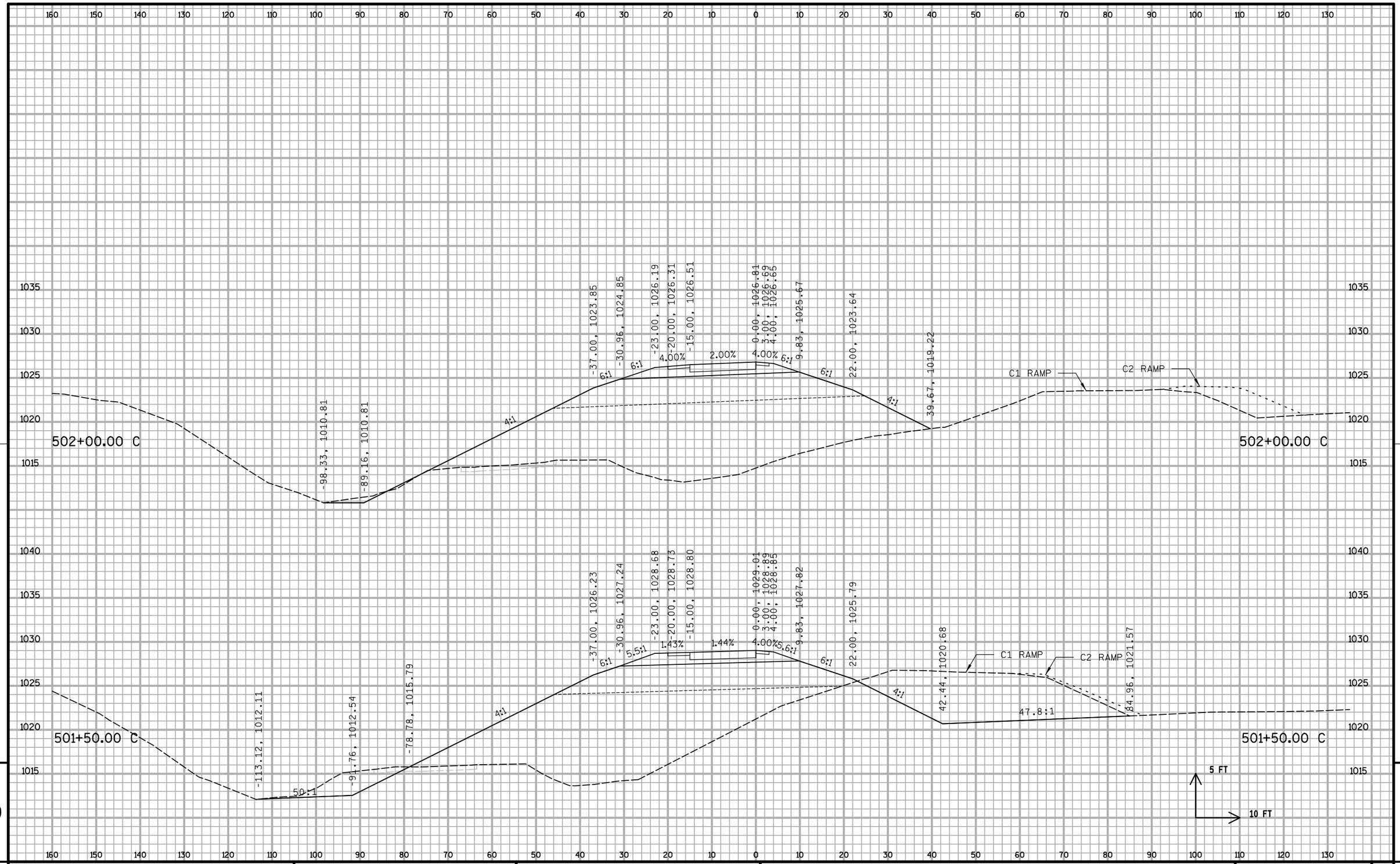
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: C RAMP S3	SHEET:	

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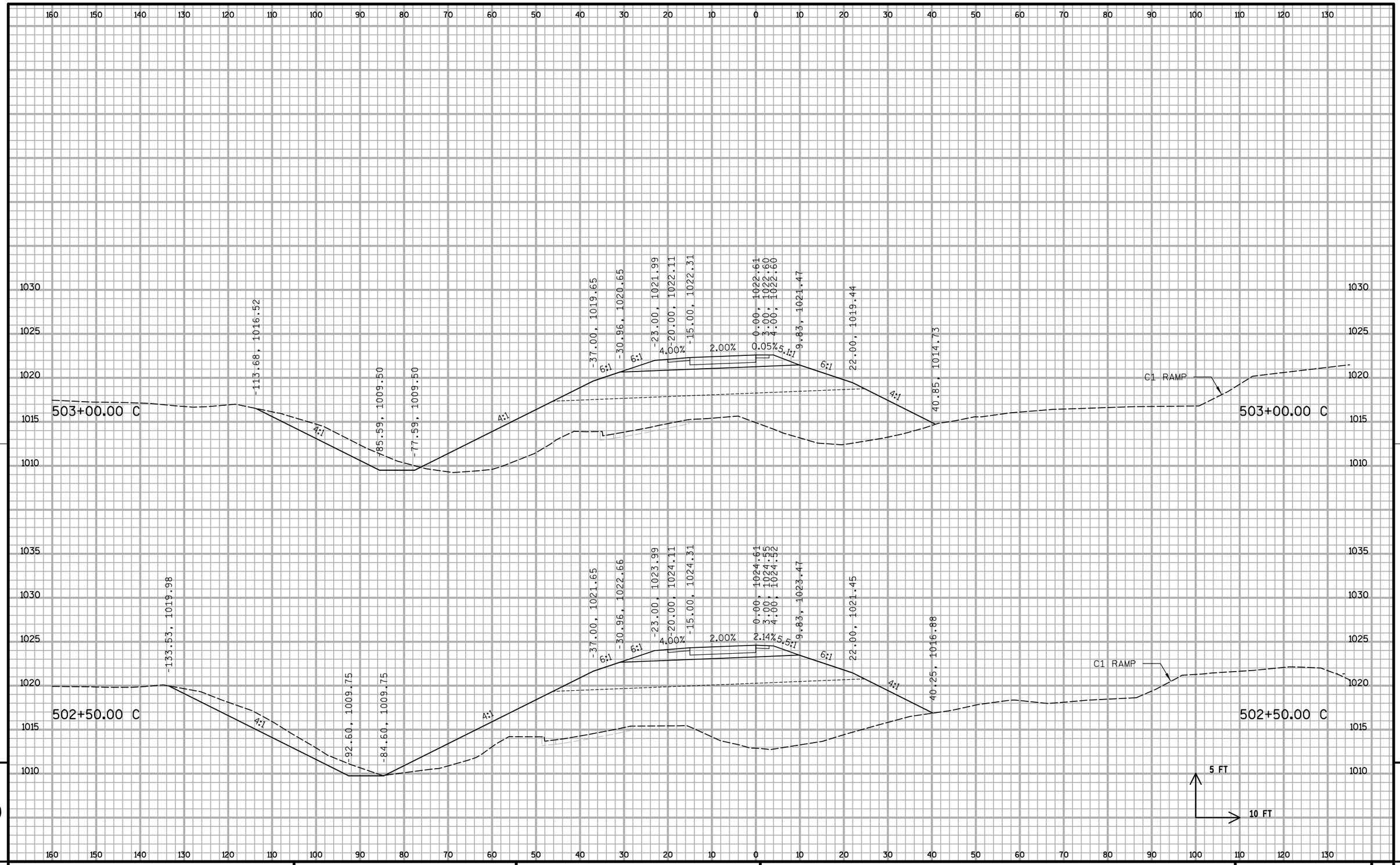


PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: C RAMP S3	SHEET:	E

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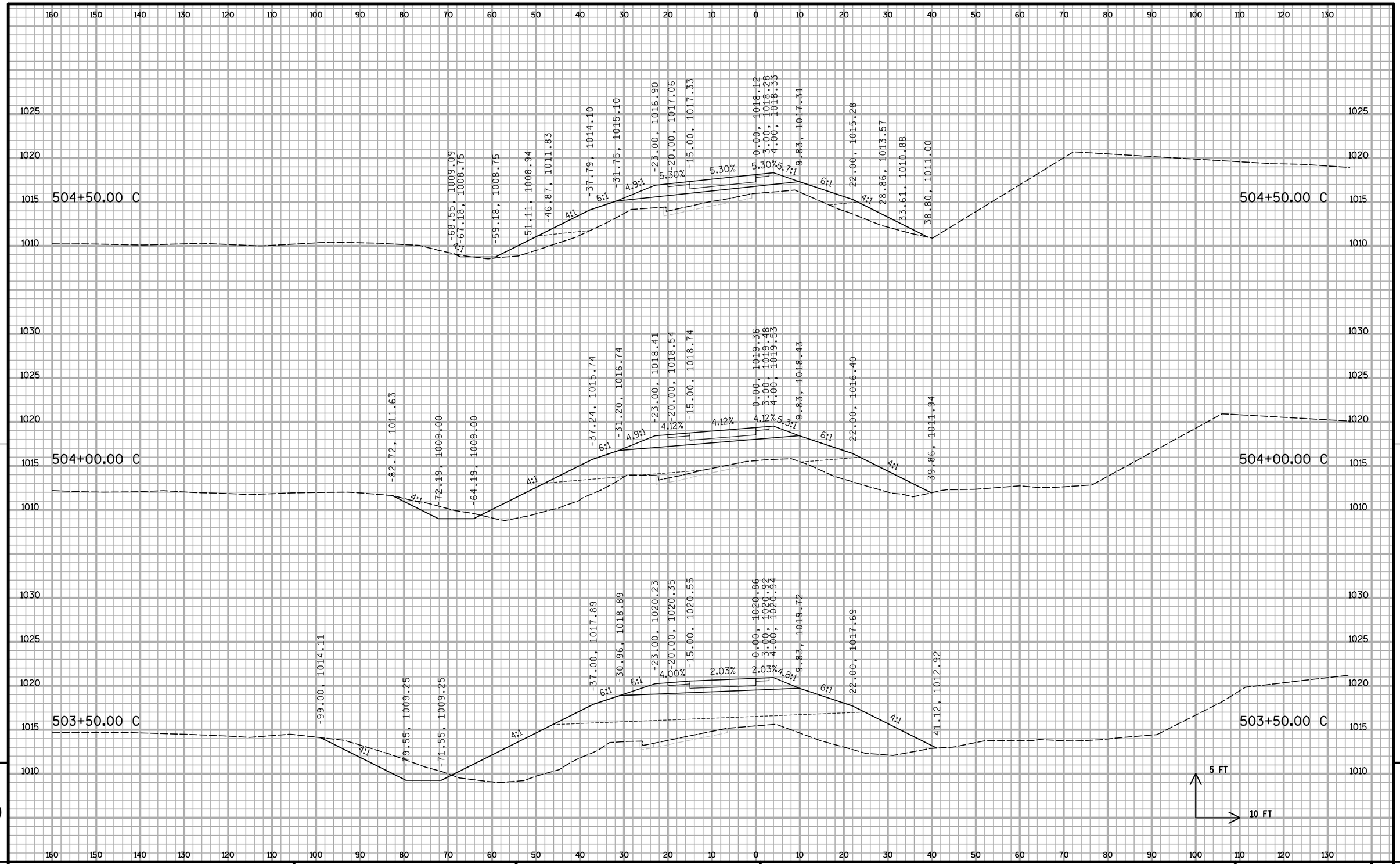


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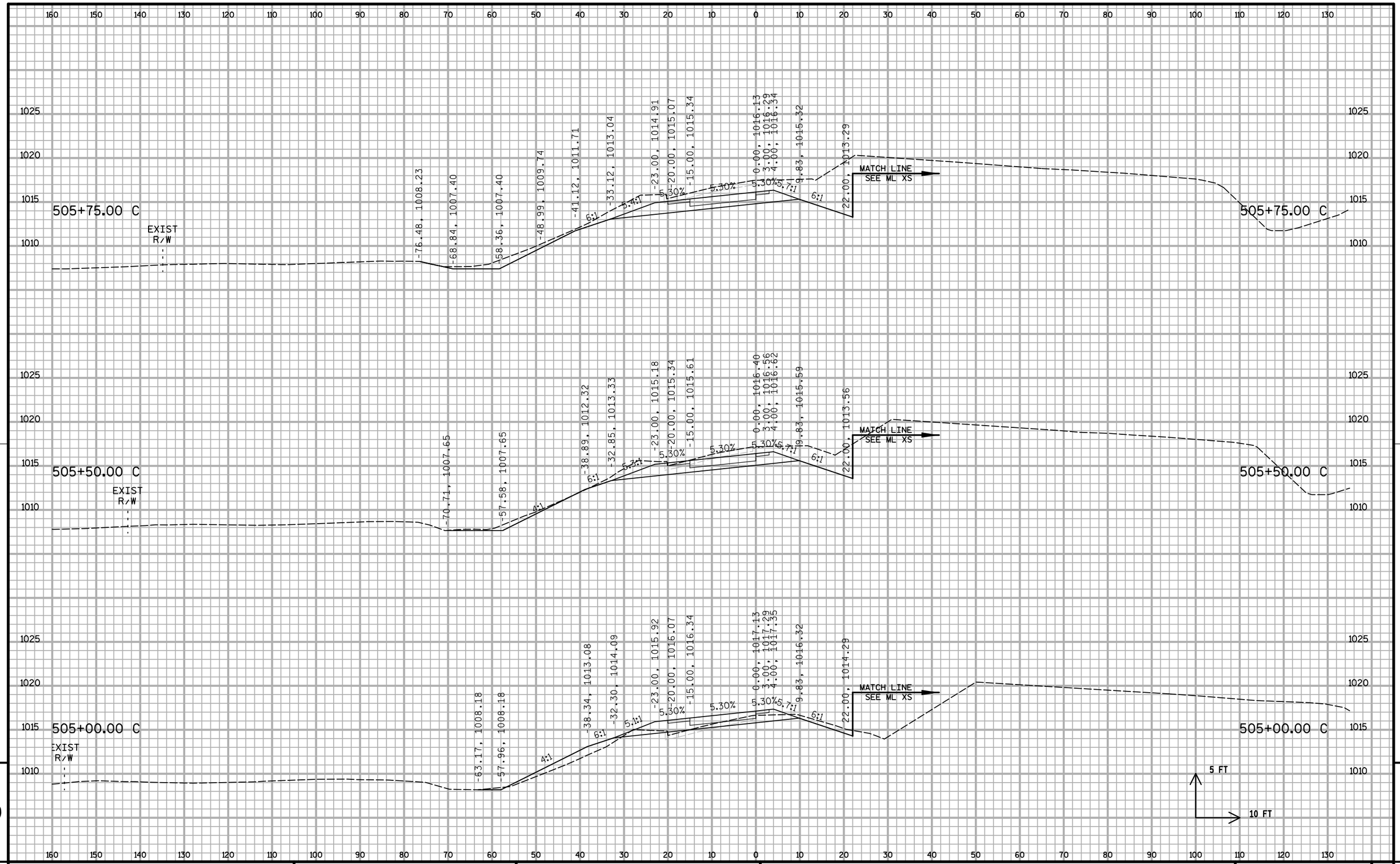
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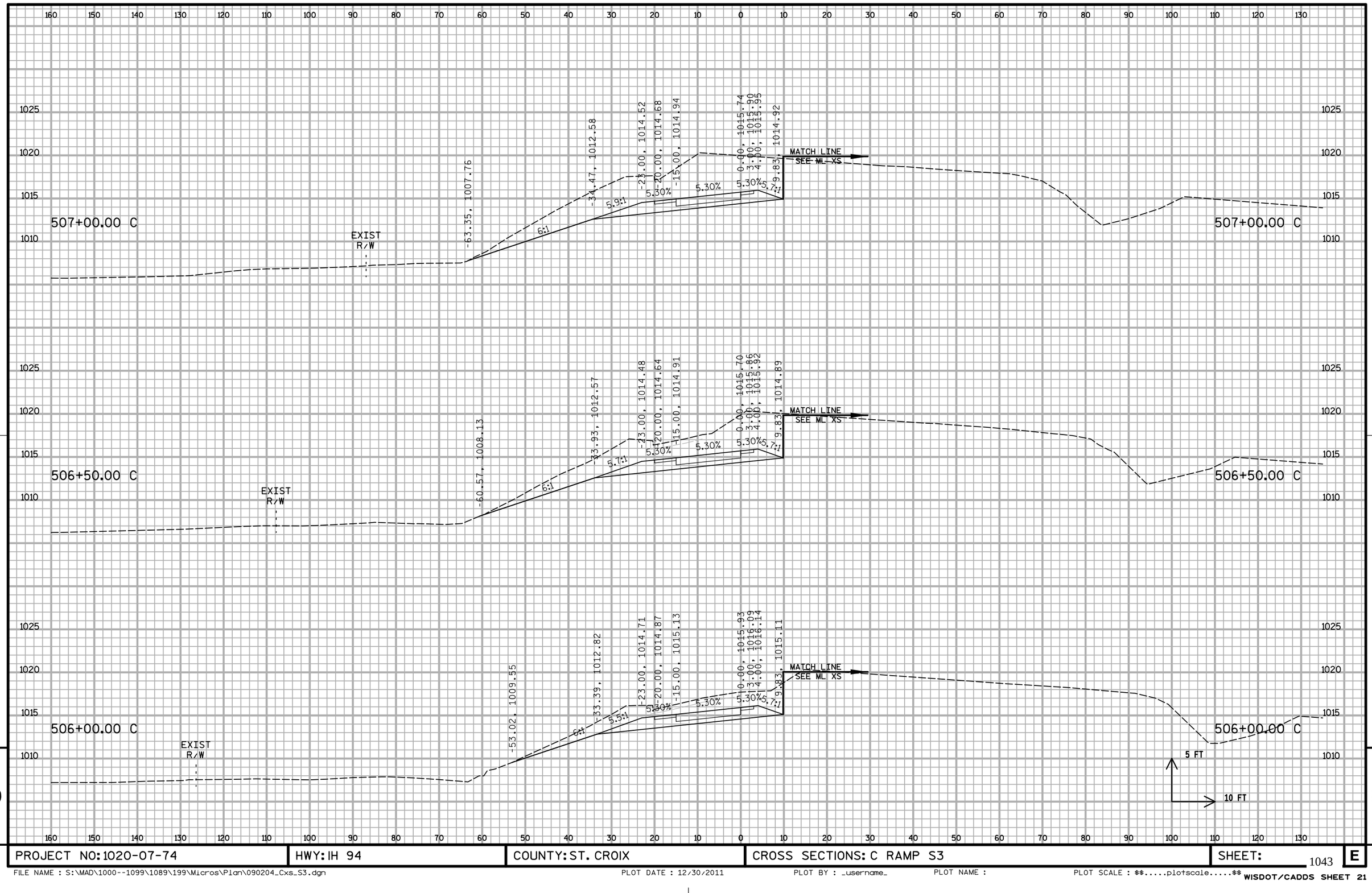
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: C RAMP S3	SHEET:	E

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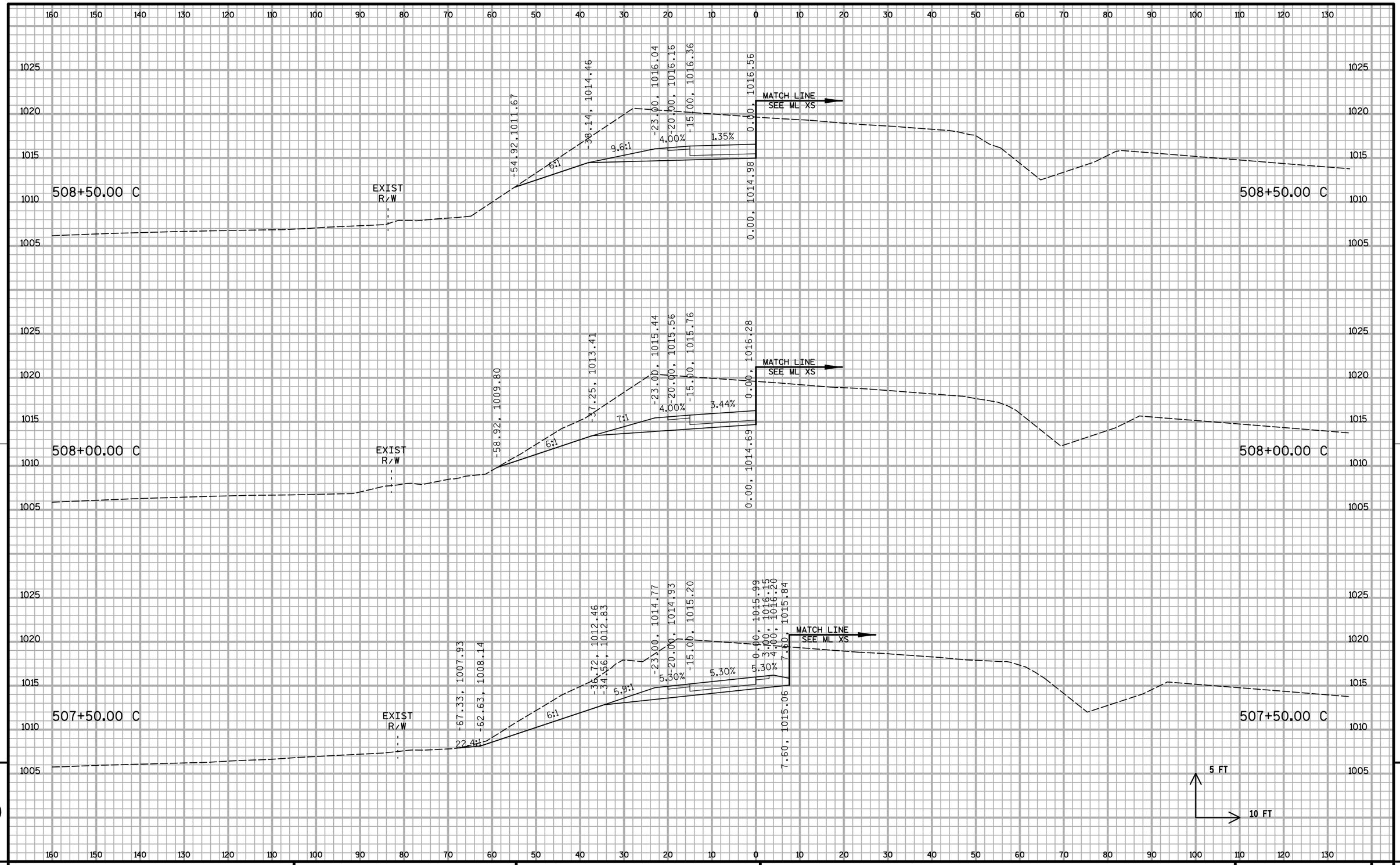


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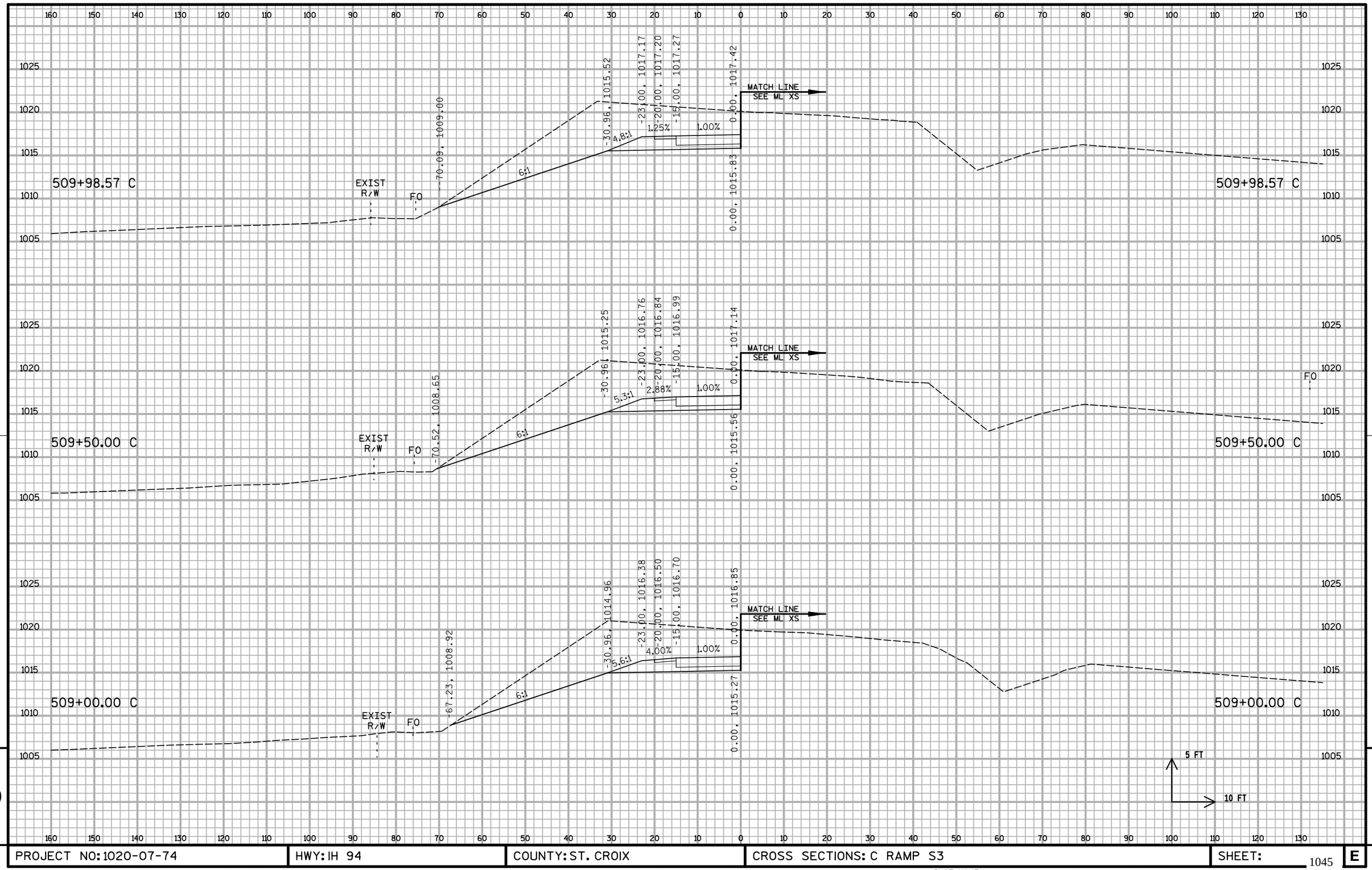
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: C RAMP S3	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090204_Cxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

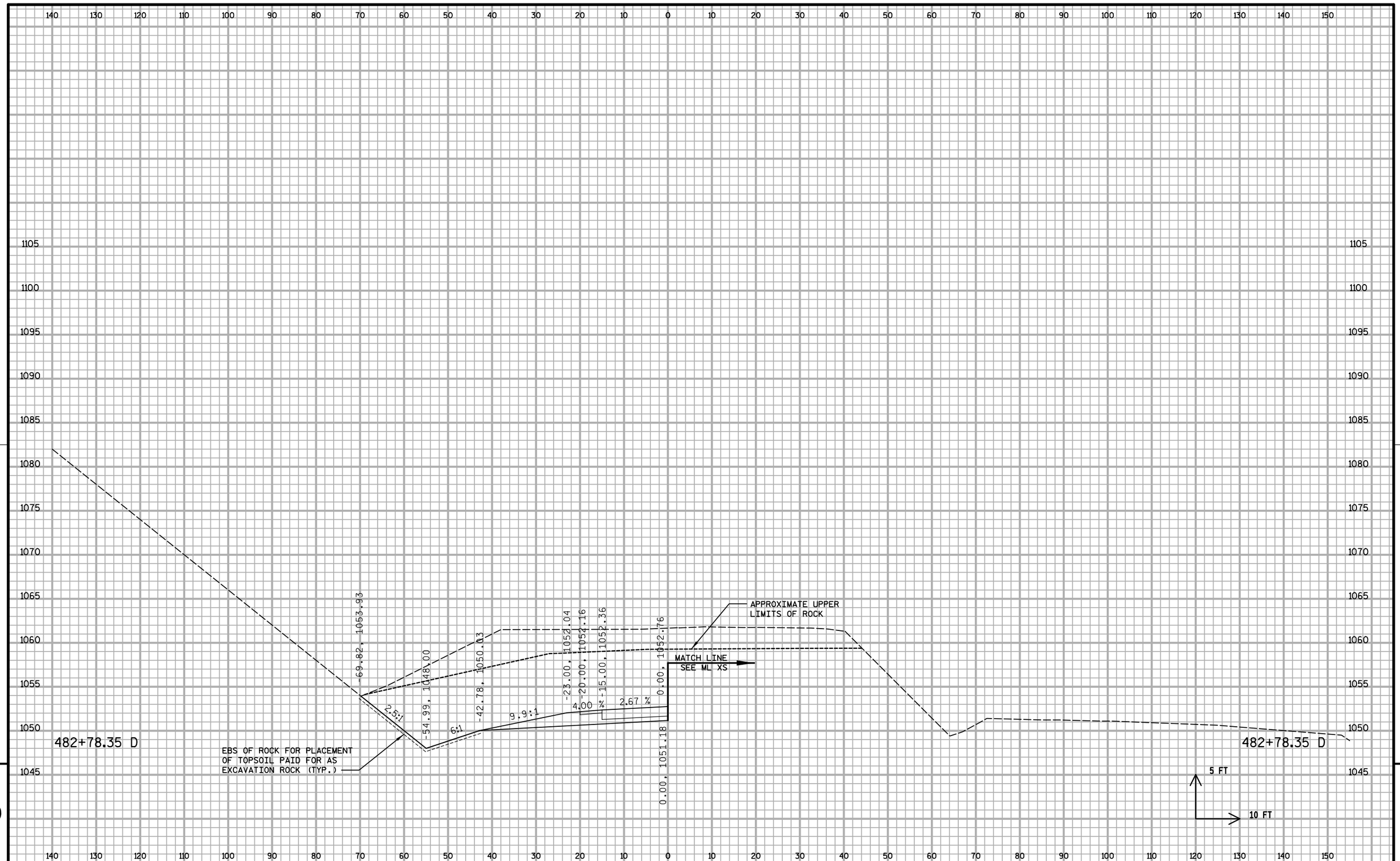


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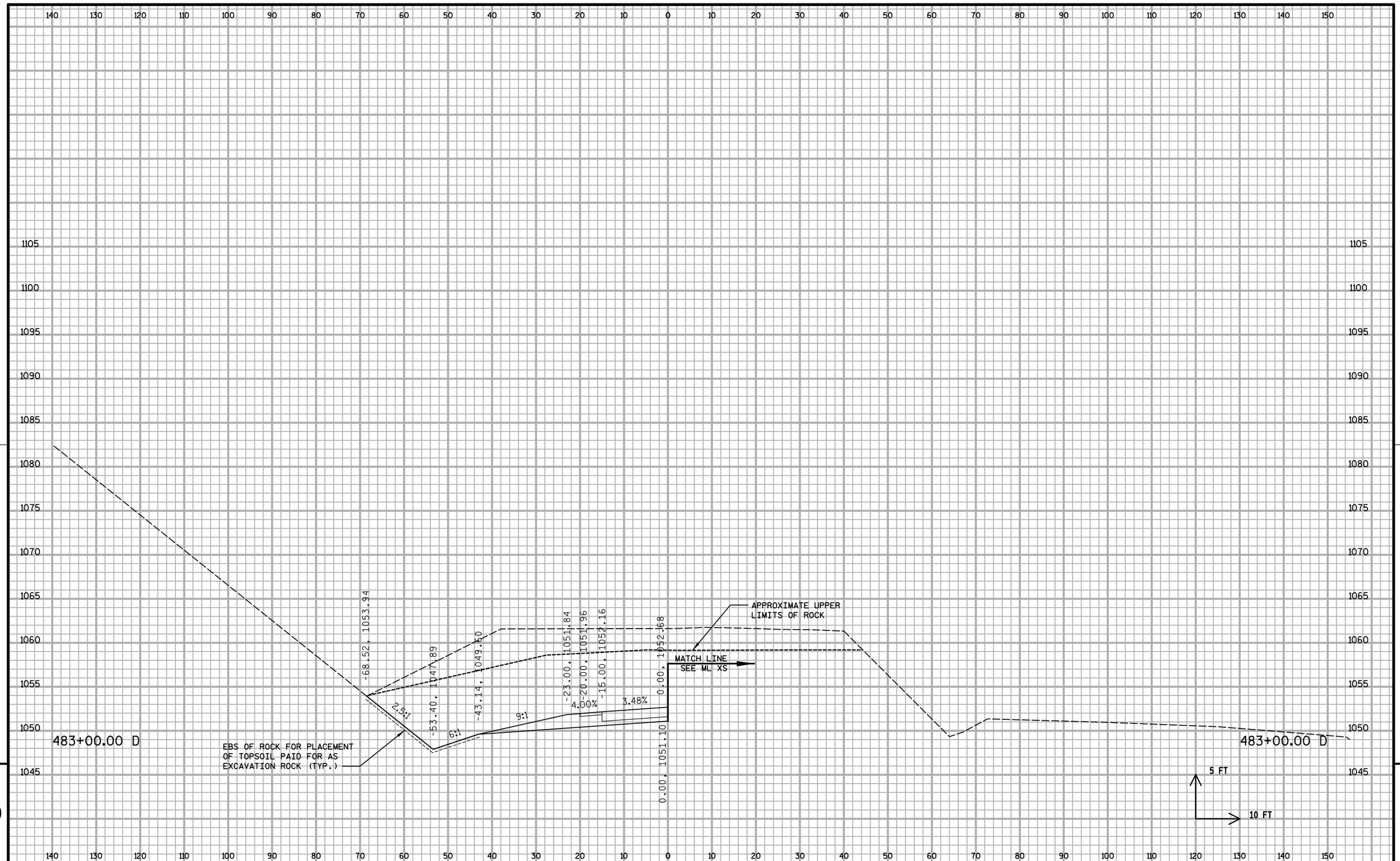
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090204_Cxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



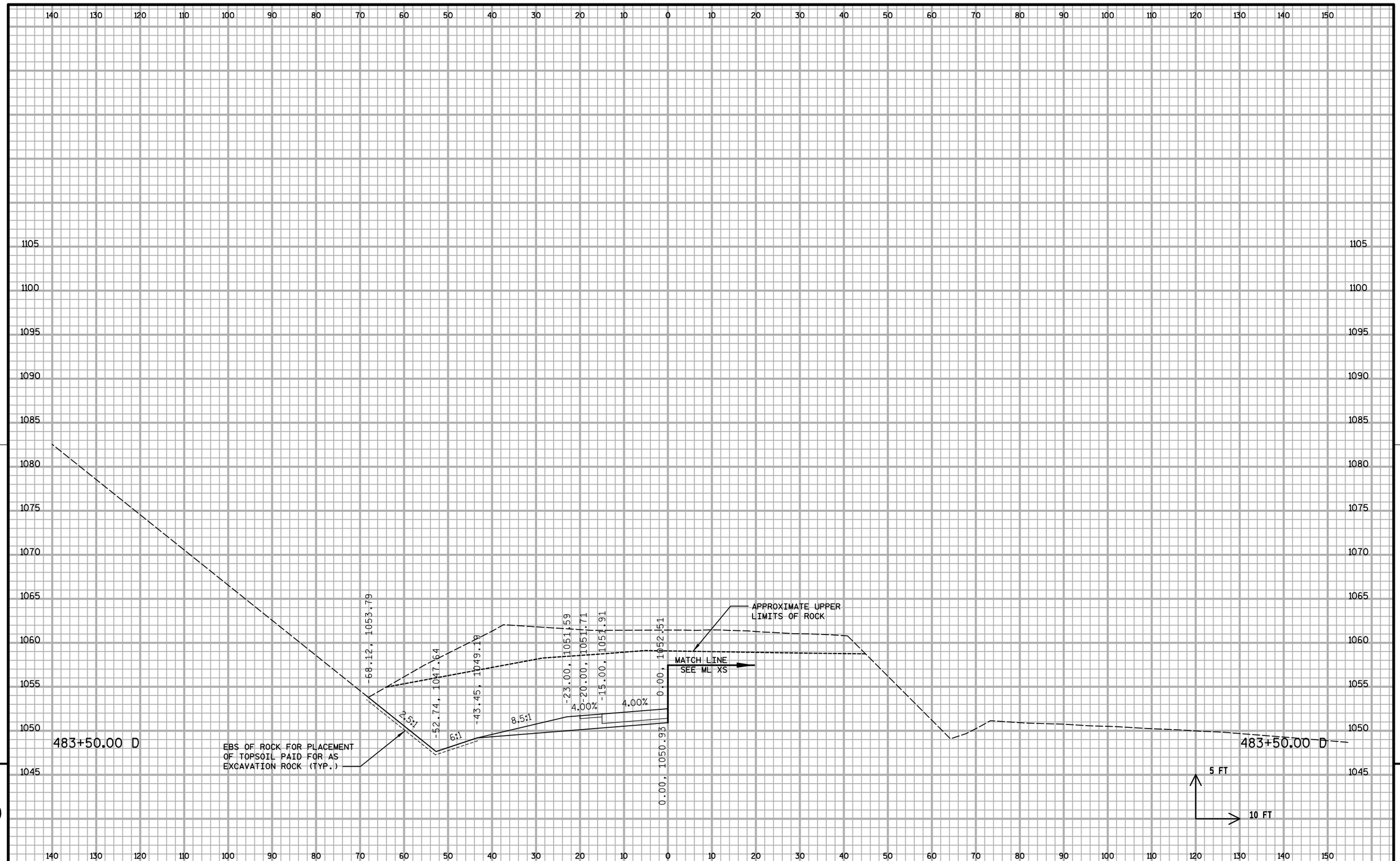
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090205_Dxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



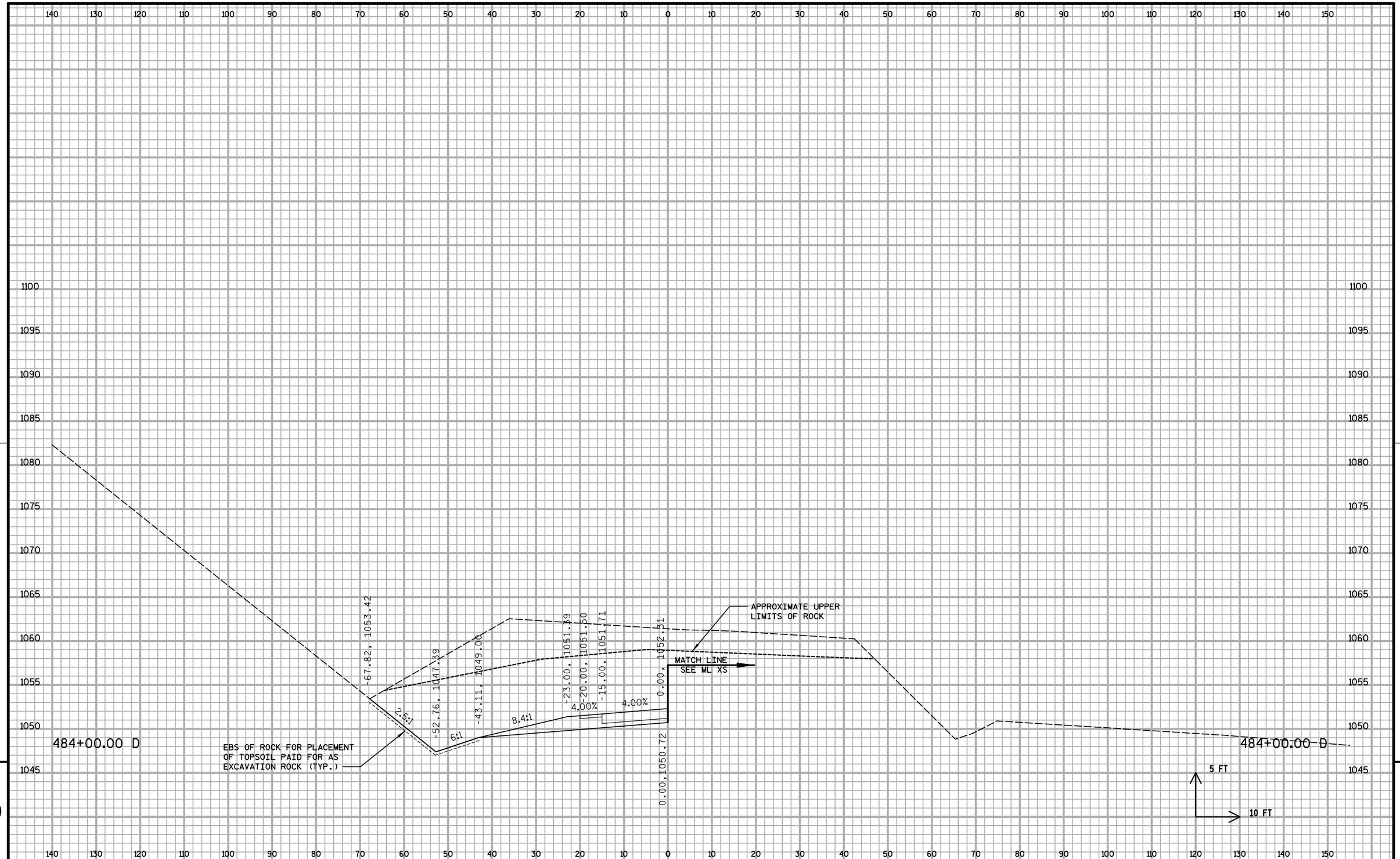
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FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090205_Dxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



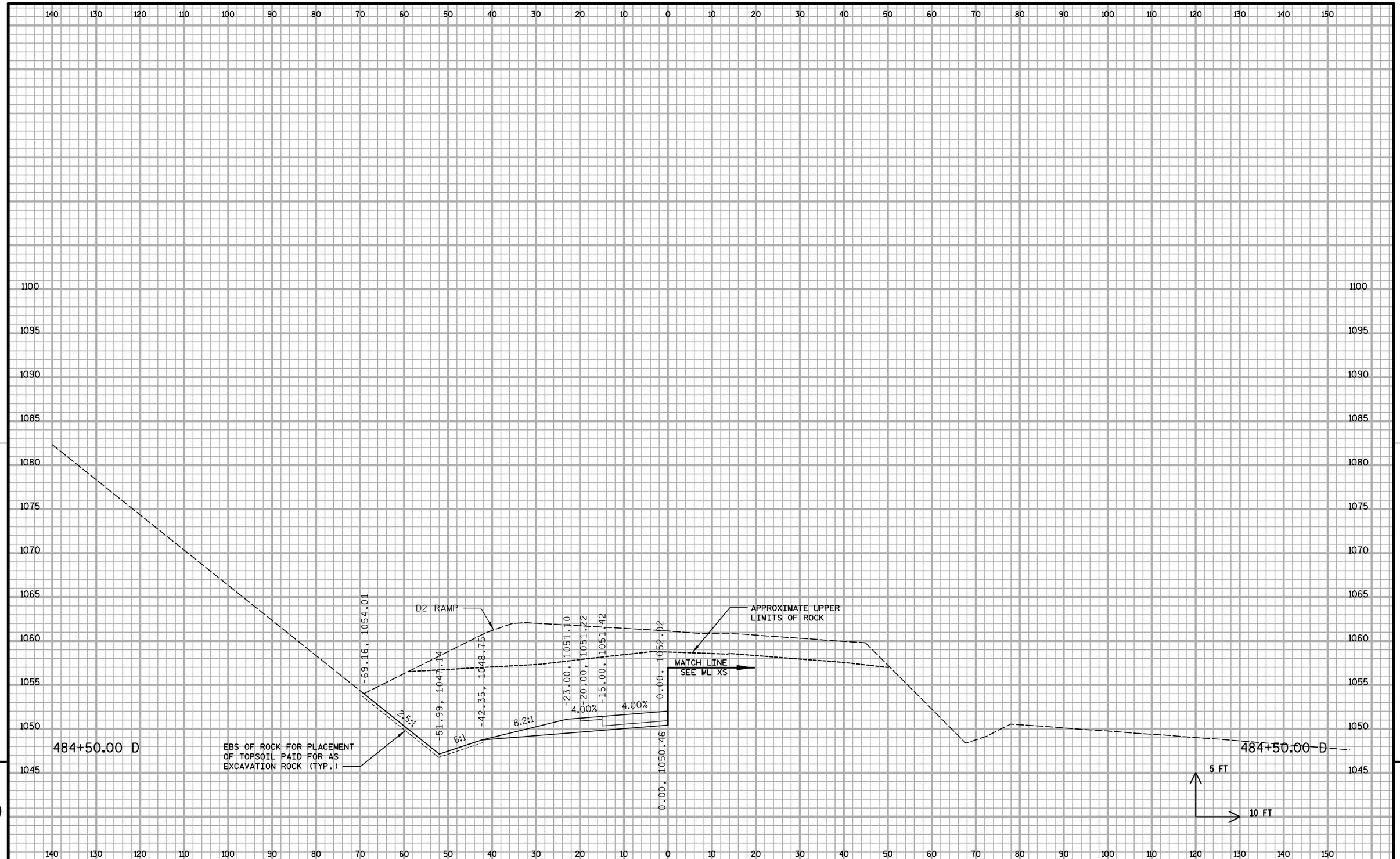
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: D RAMP S3	SHEET:	

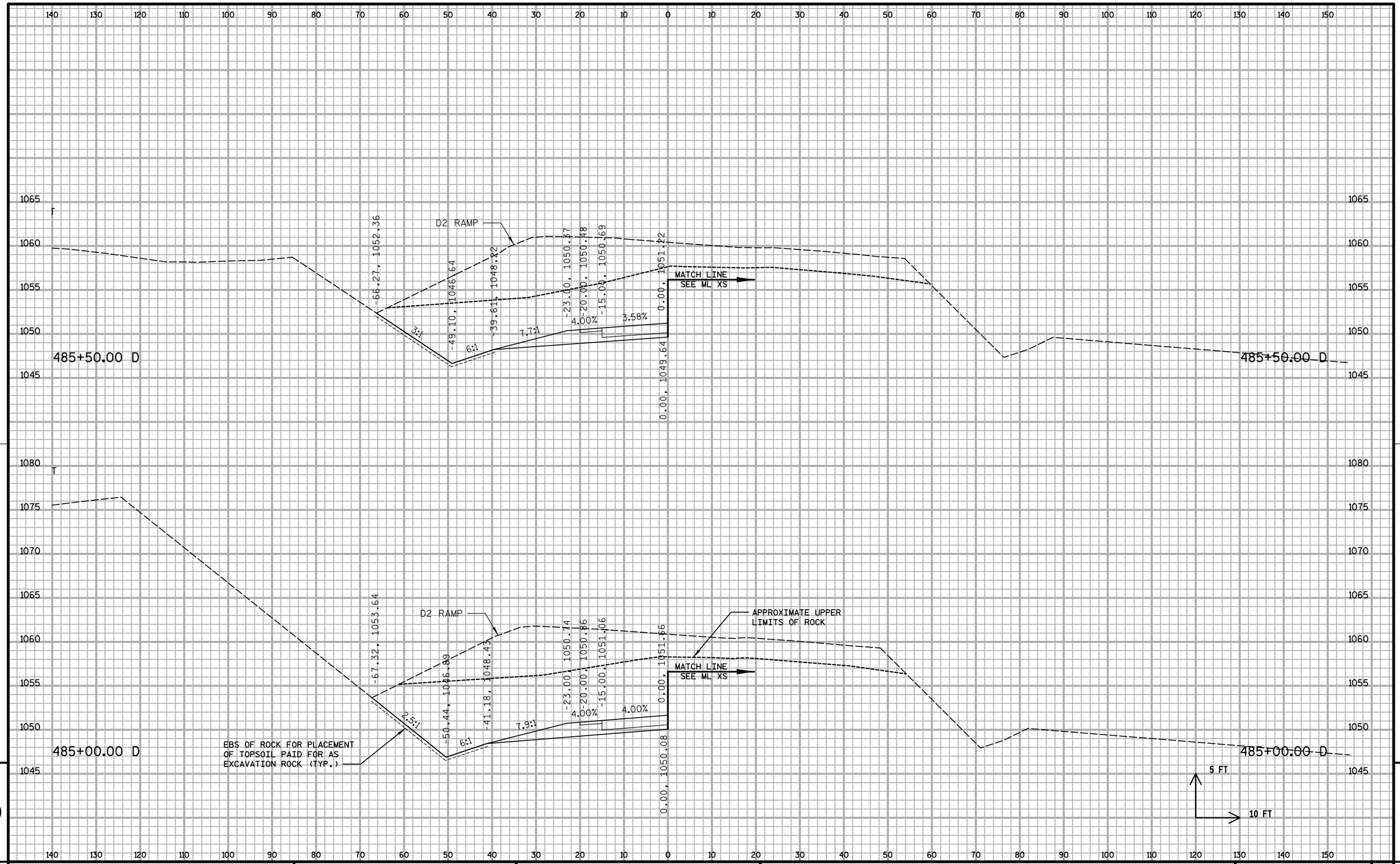
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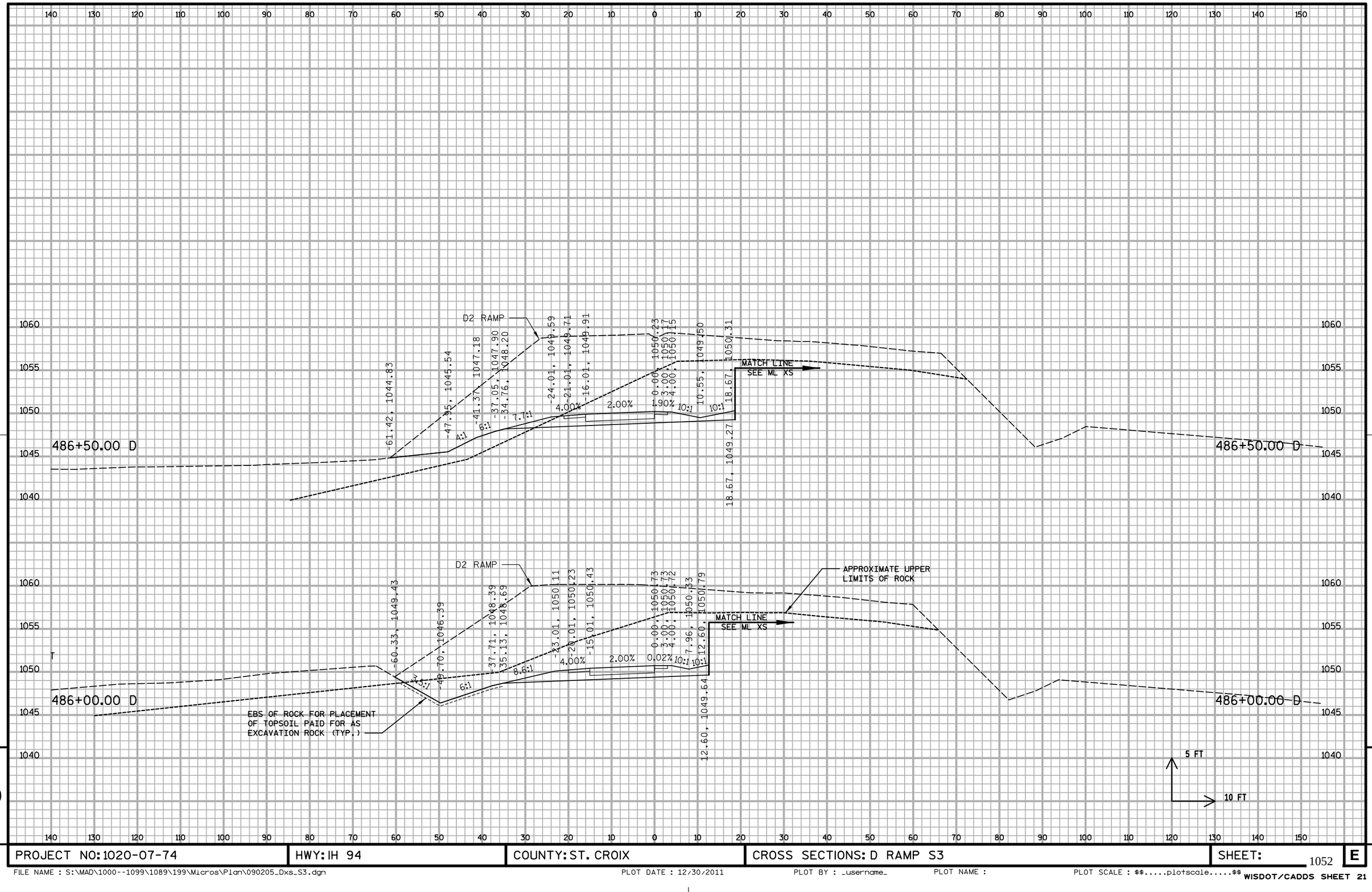
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: D RAMP S3	SHEET: 1050	E



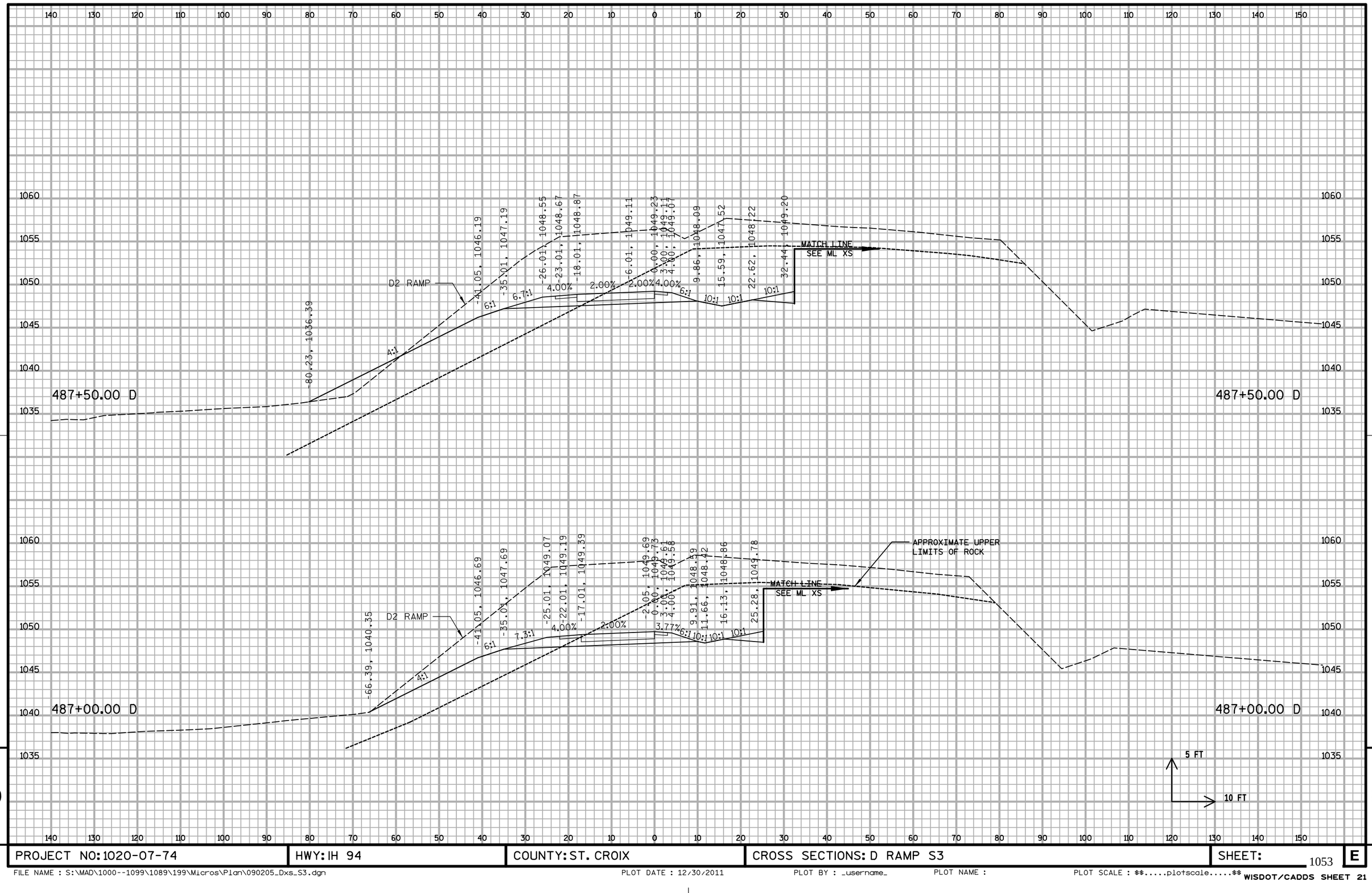
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: D RAMP S3	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090205_Dxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



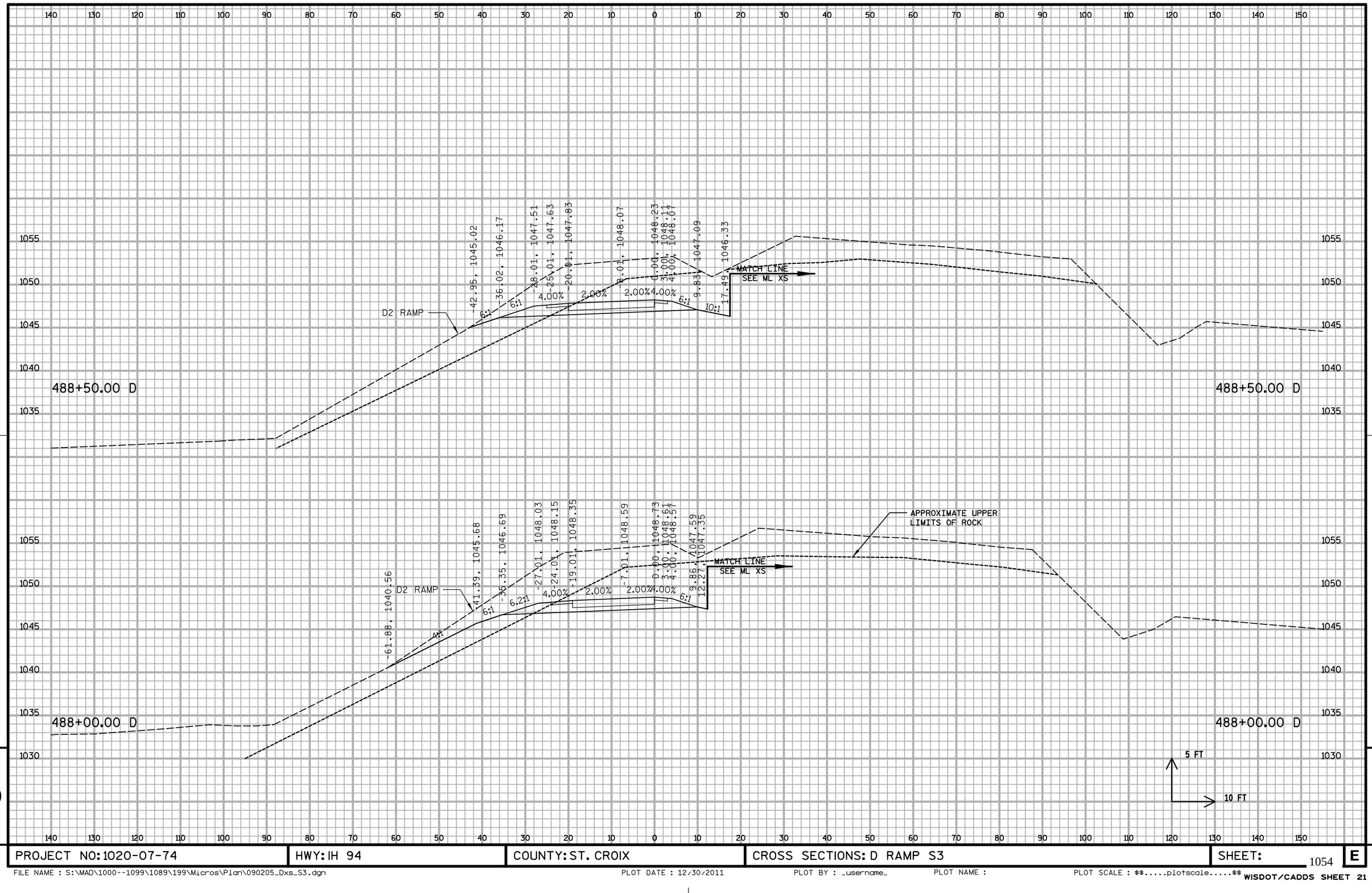
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: D RAMP S3	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090205_Dxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: D RAMP S3	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090205_Dxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

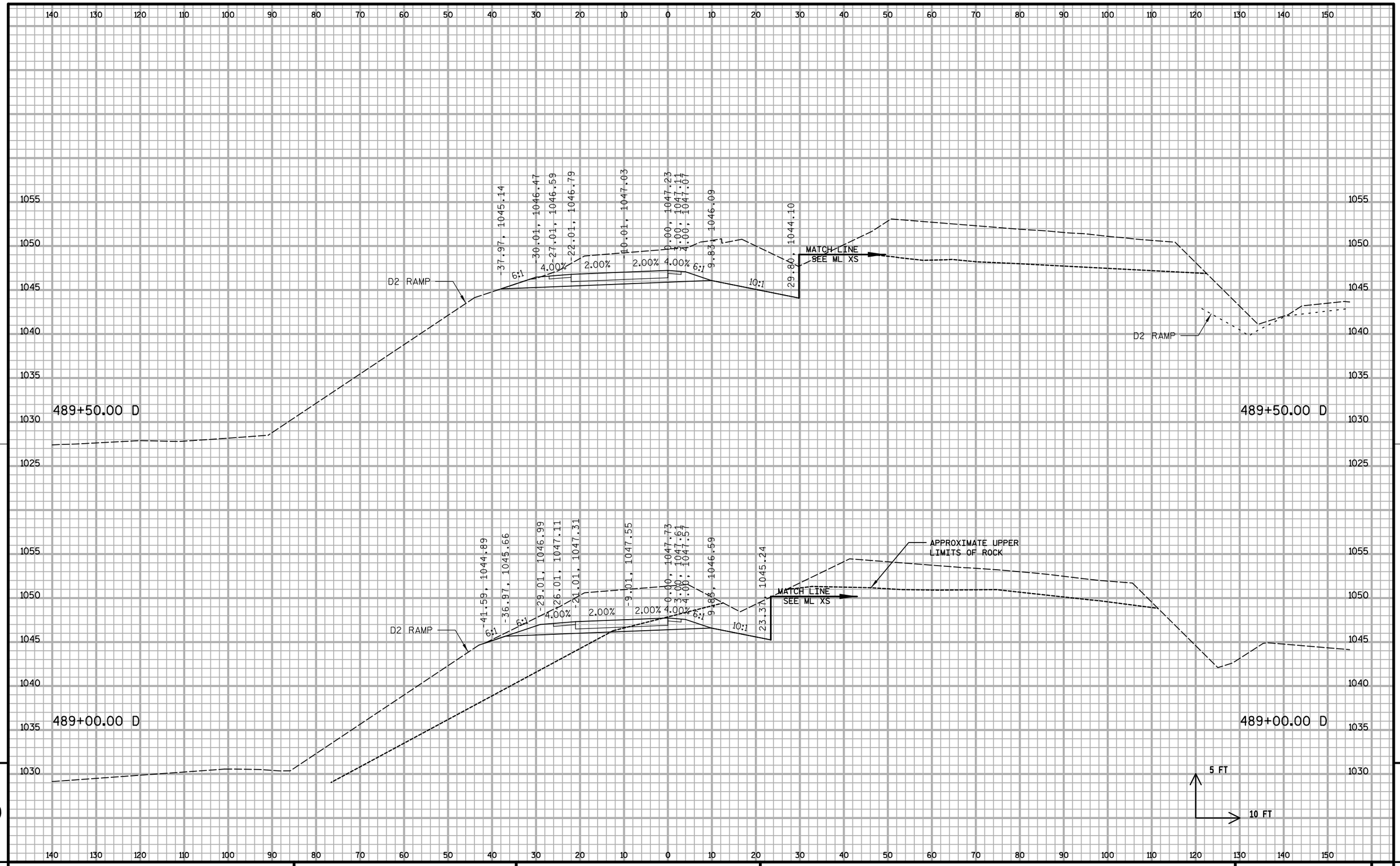


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: D RAMP S3	SHEET:	E

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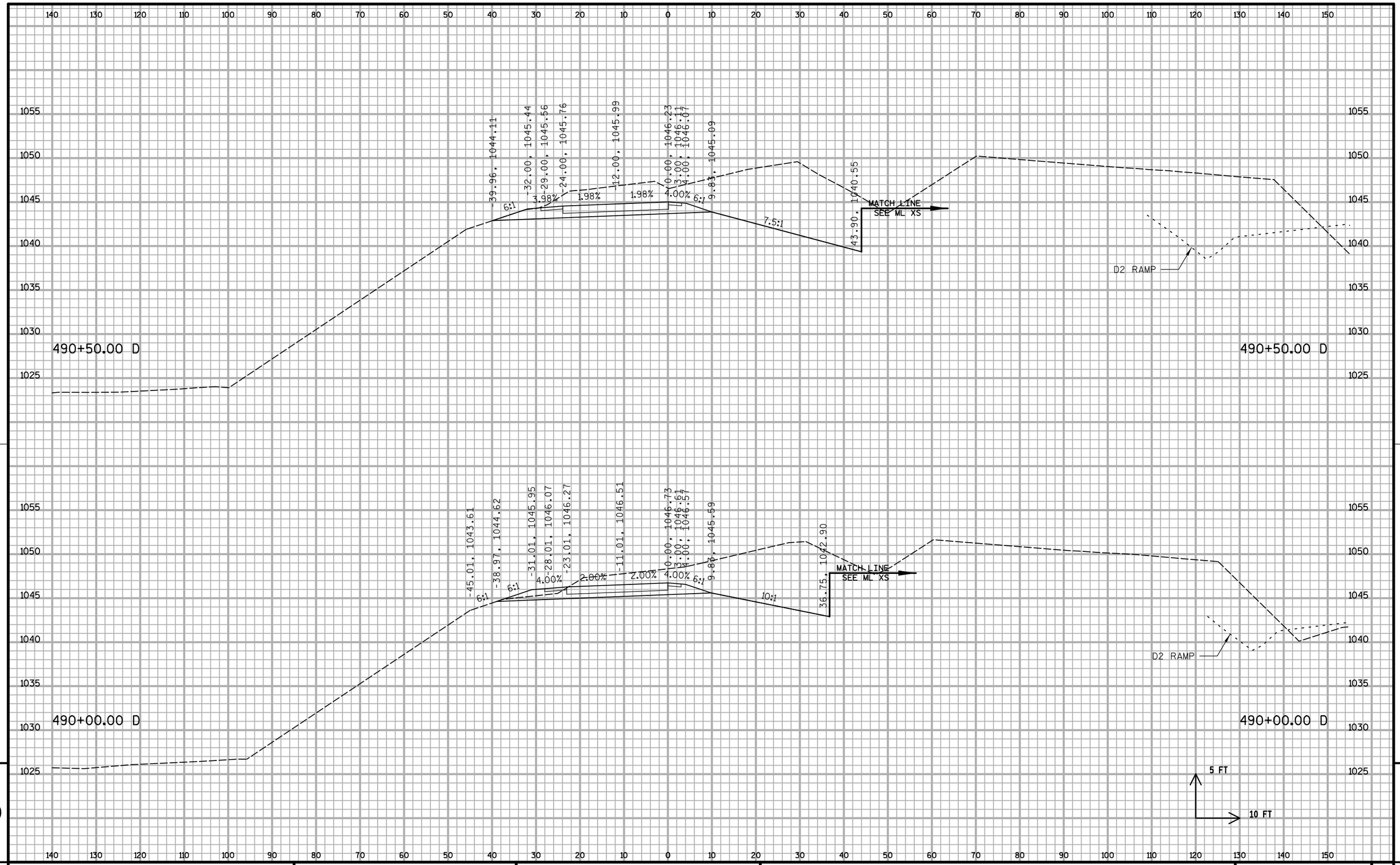


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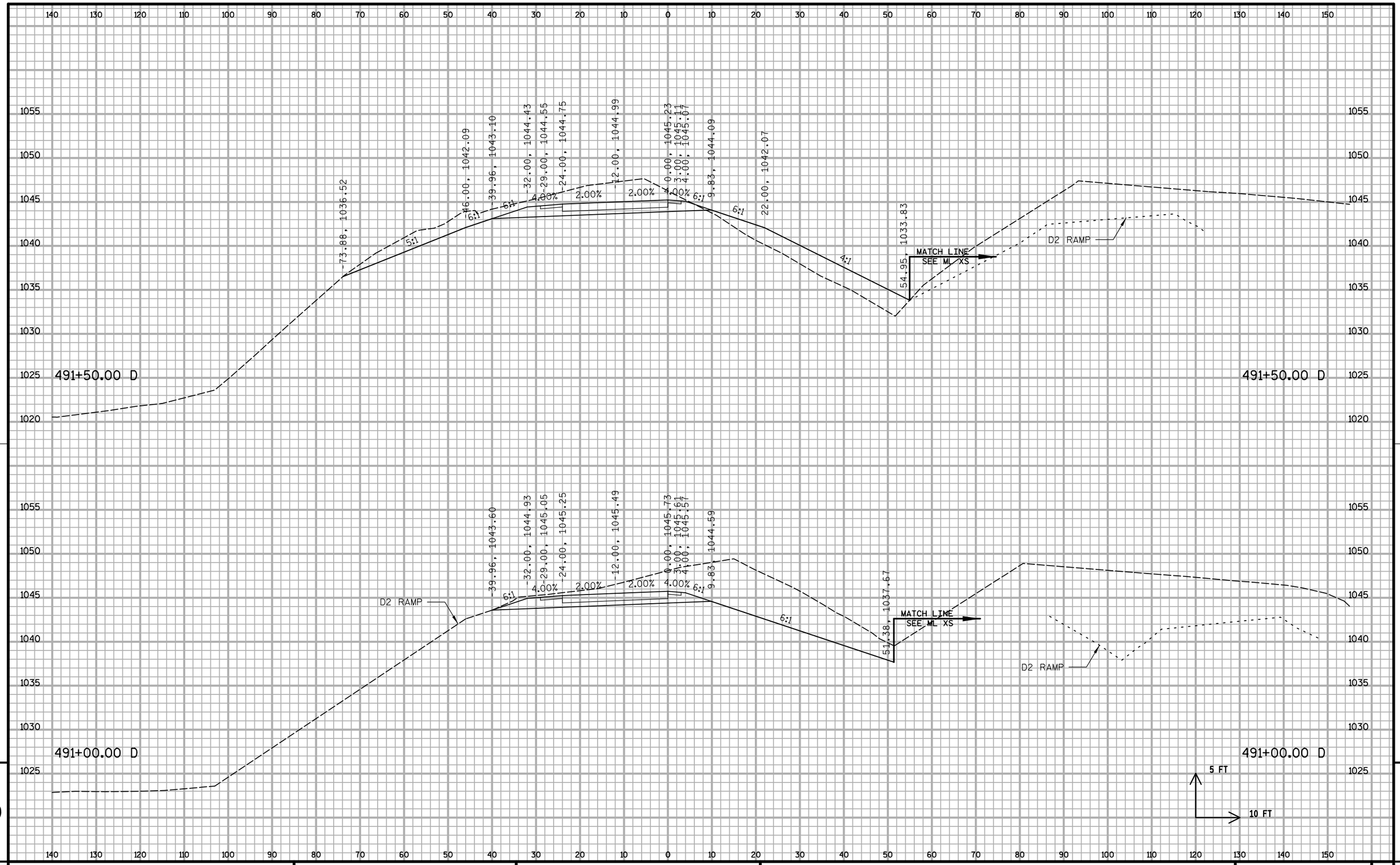
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: D RAMP S3	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090205_Dxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: D RAMP S3	SHEET: 1056 E

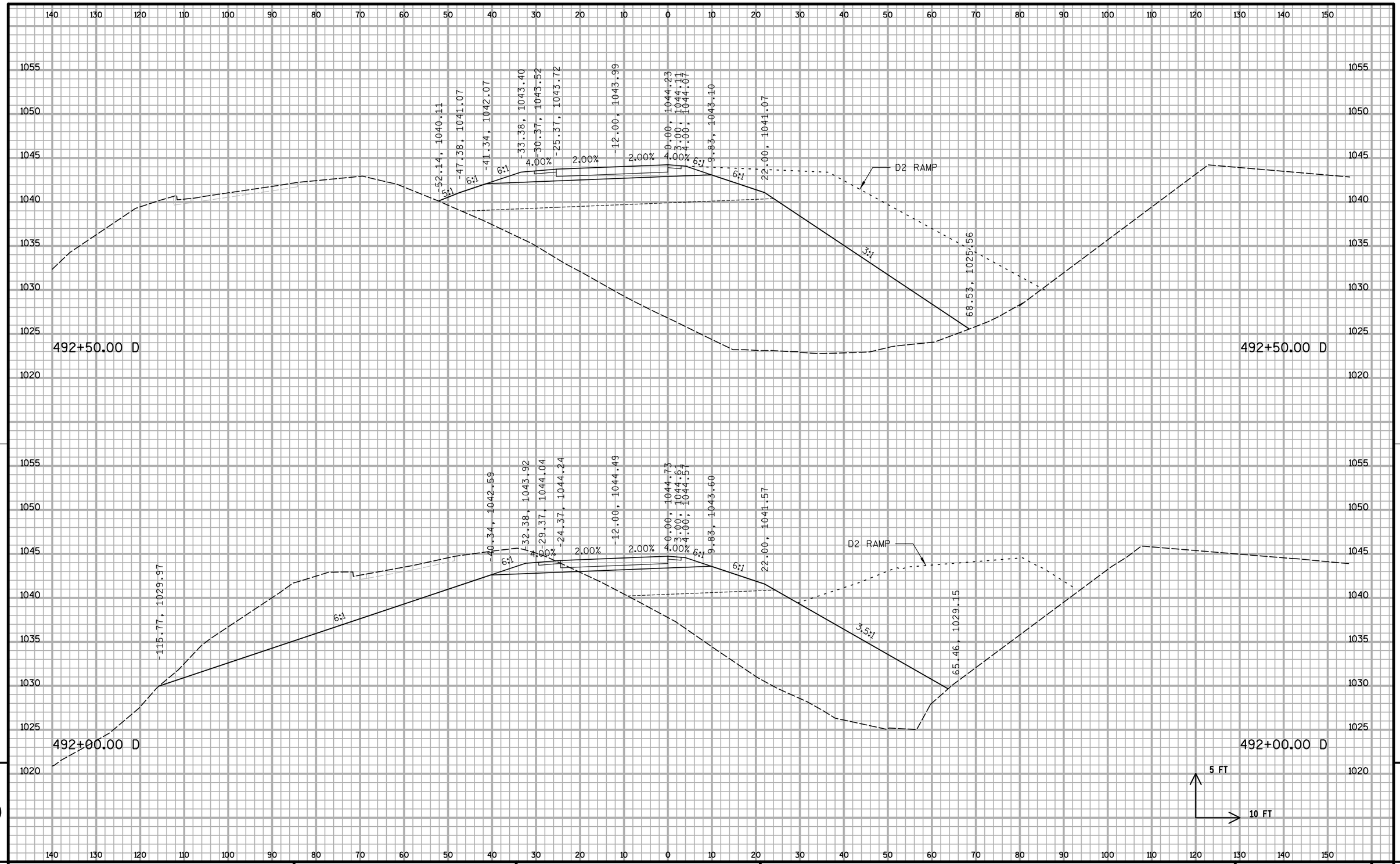
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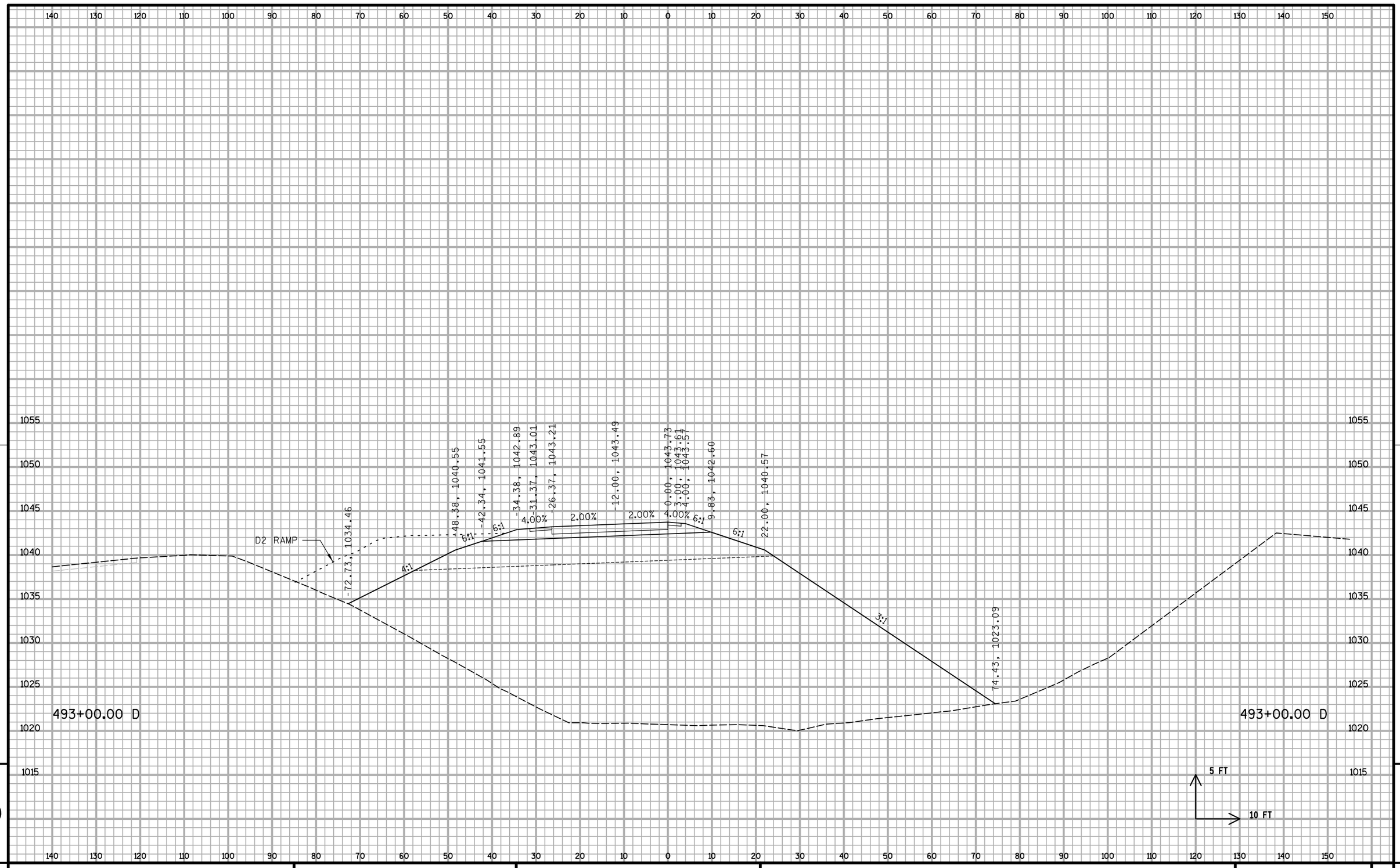
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: D RAMP S3	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090205_Dxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: D RAMP S3	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090205_Dxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



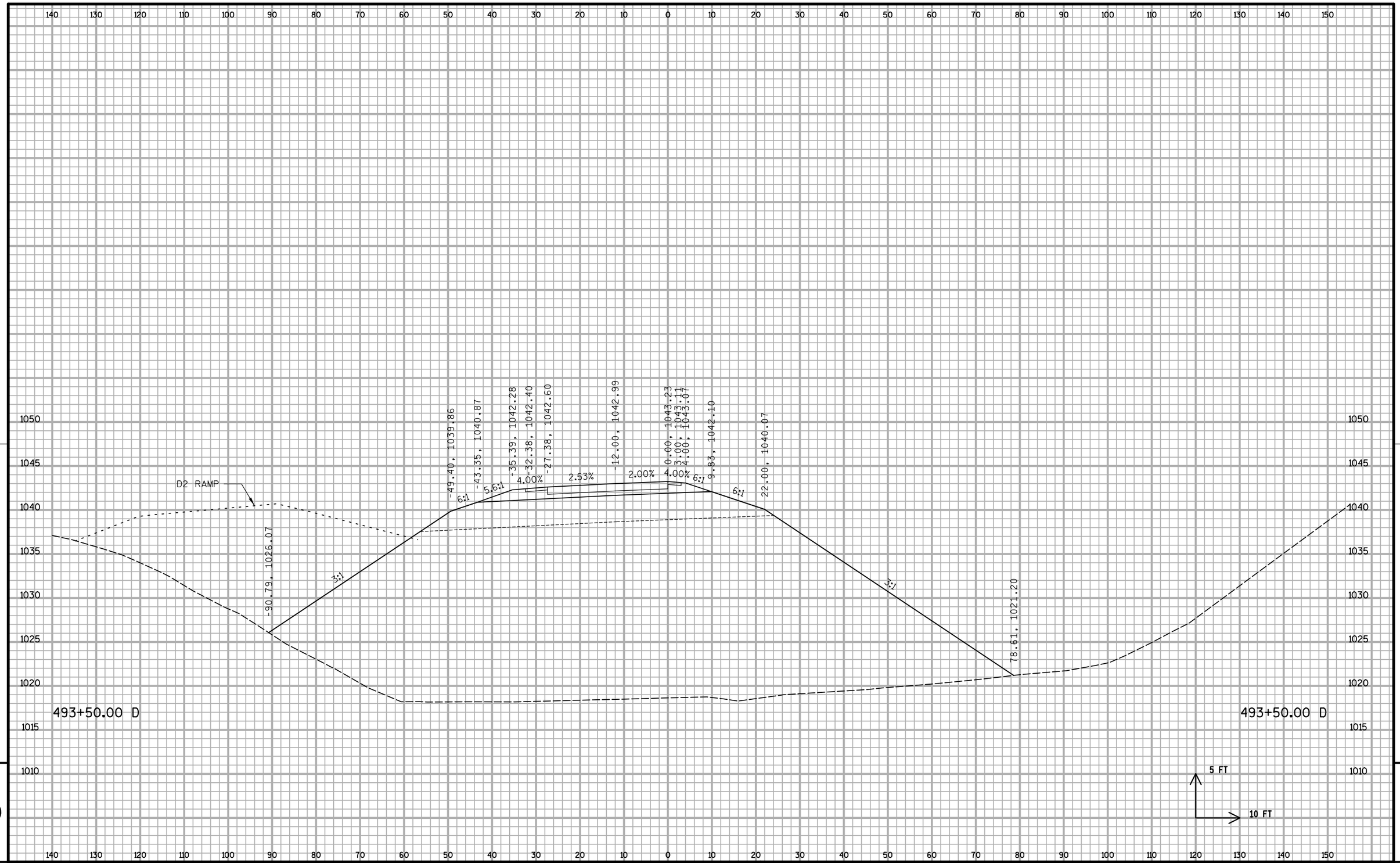
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: D RAMP S3	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090205_Dxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

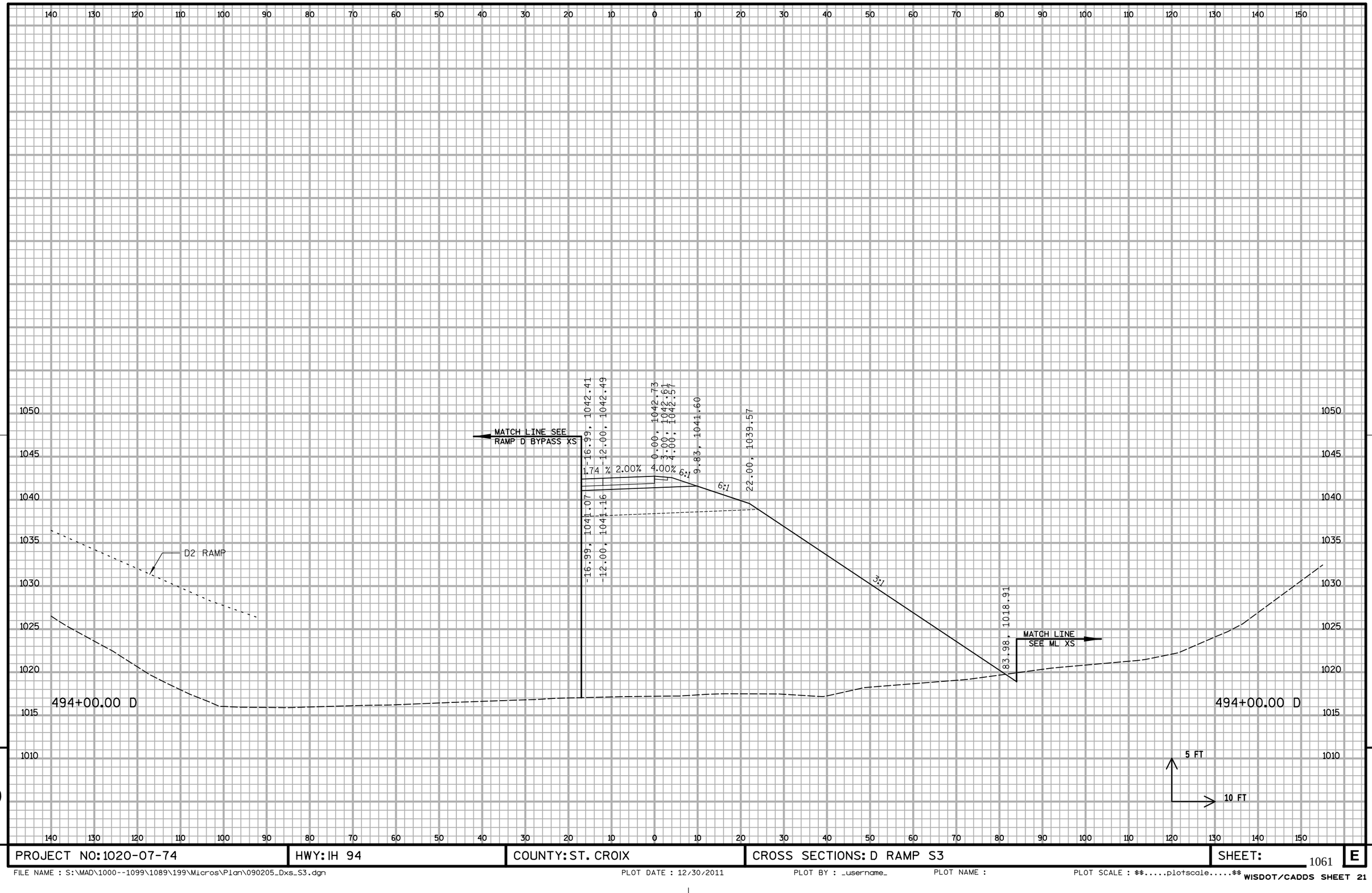


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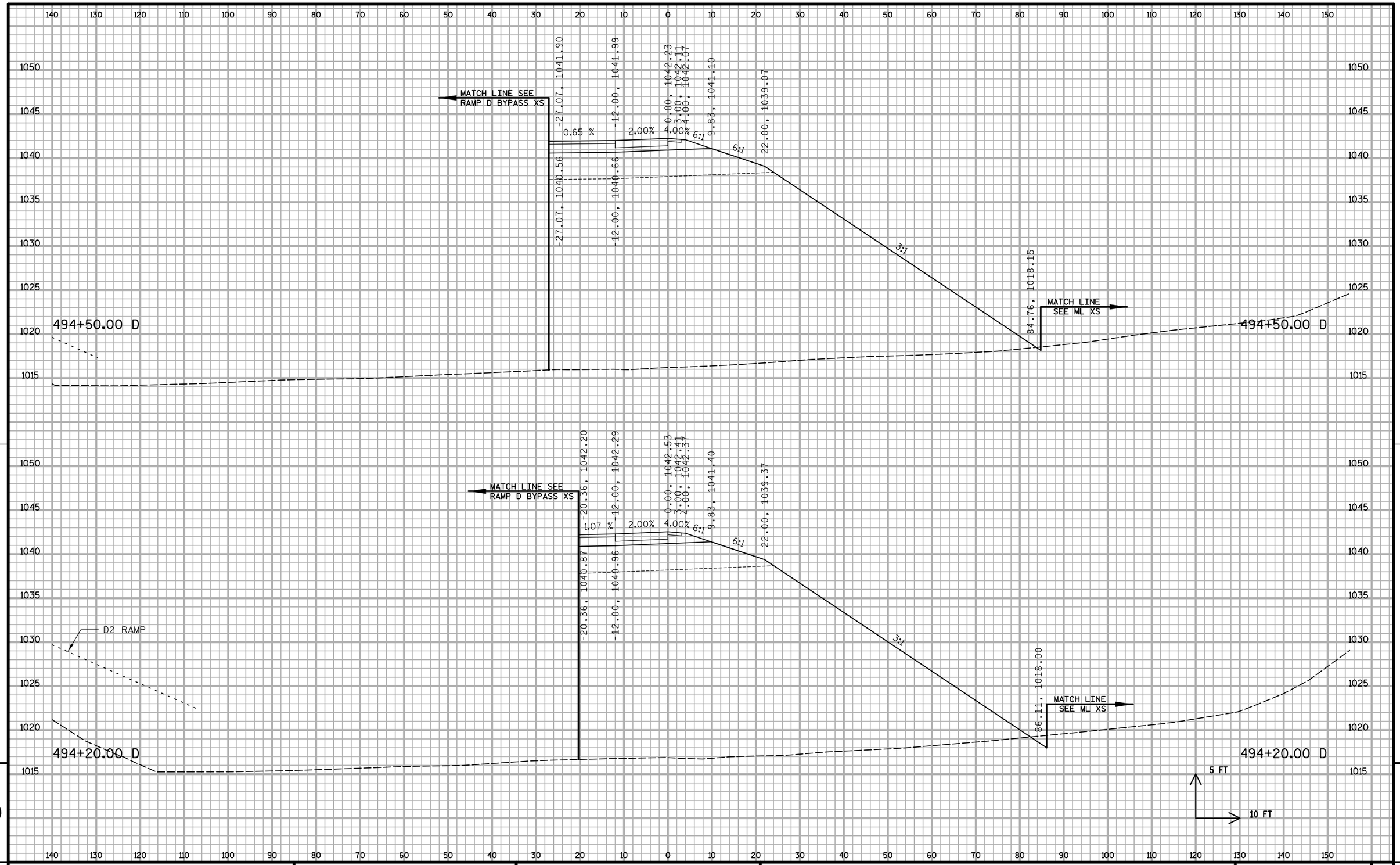
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: D RAMP S3	SHEET: 1060	E

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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: D RAMP S3	SHEET: 1061 E

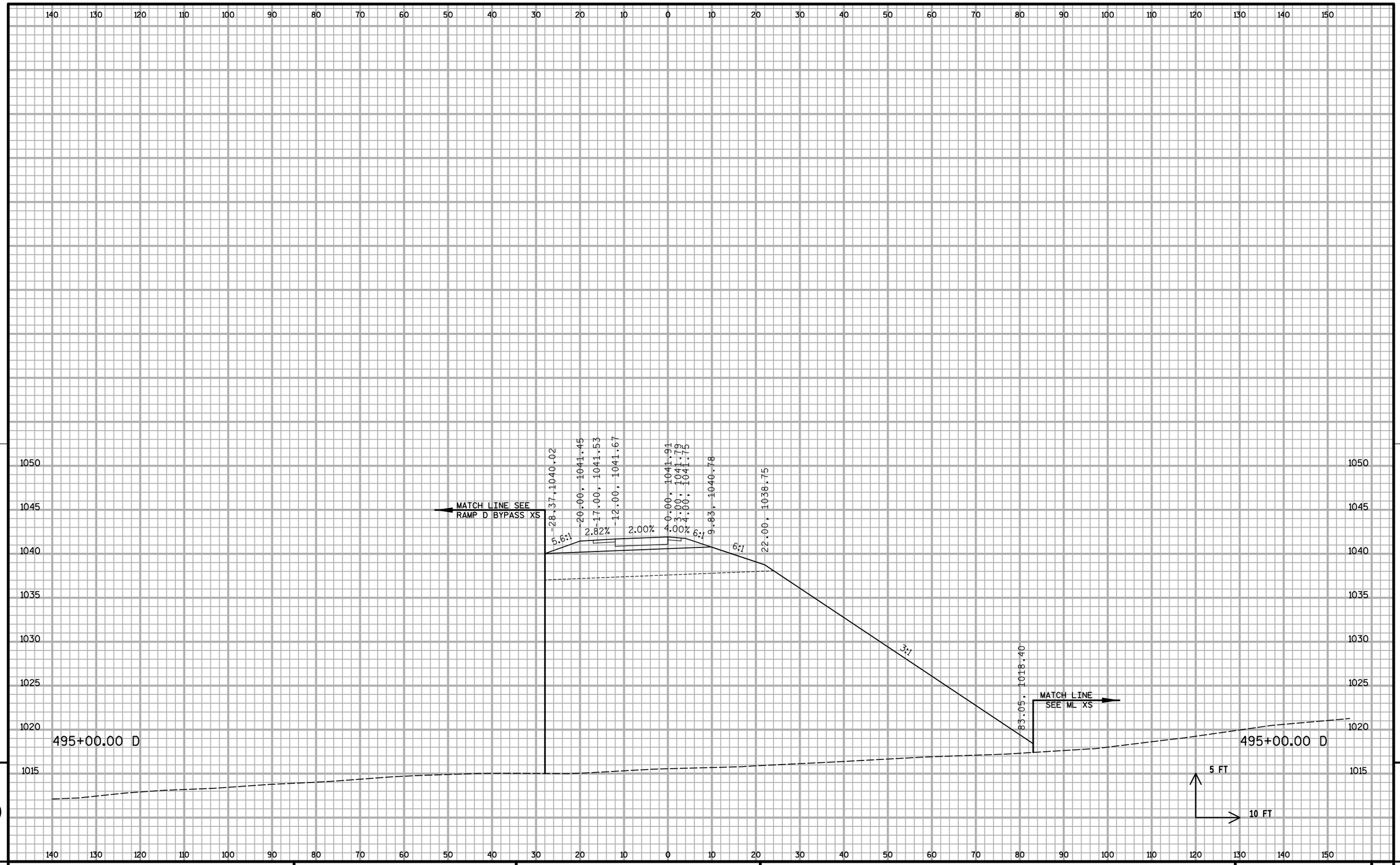


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: D RAMP S3	SHEET:	E

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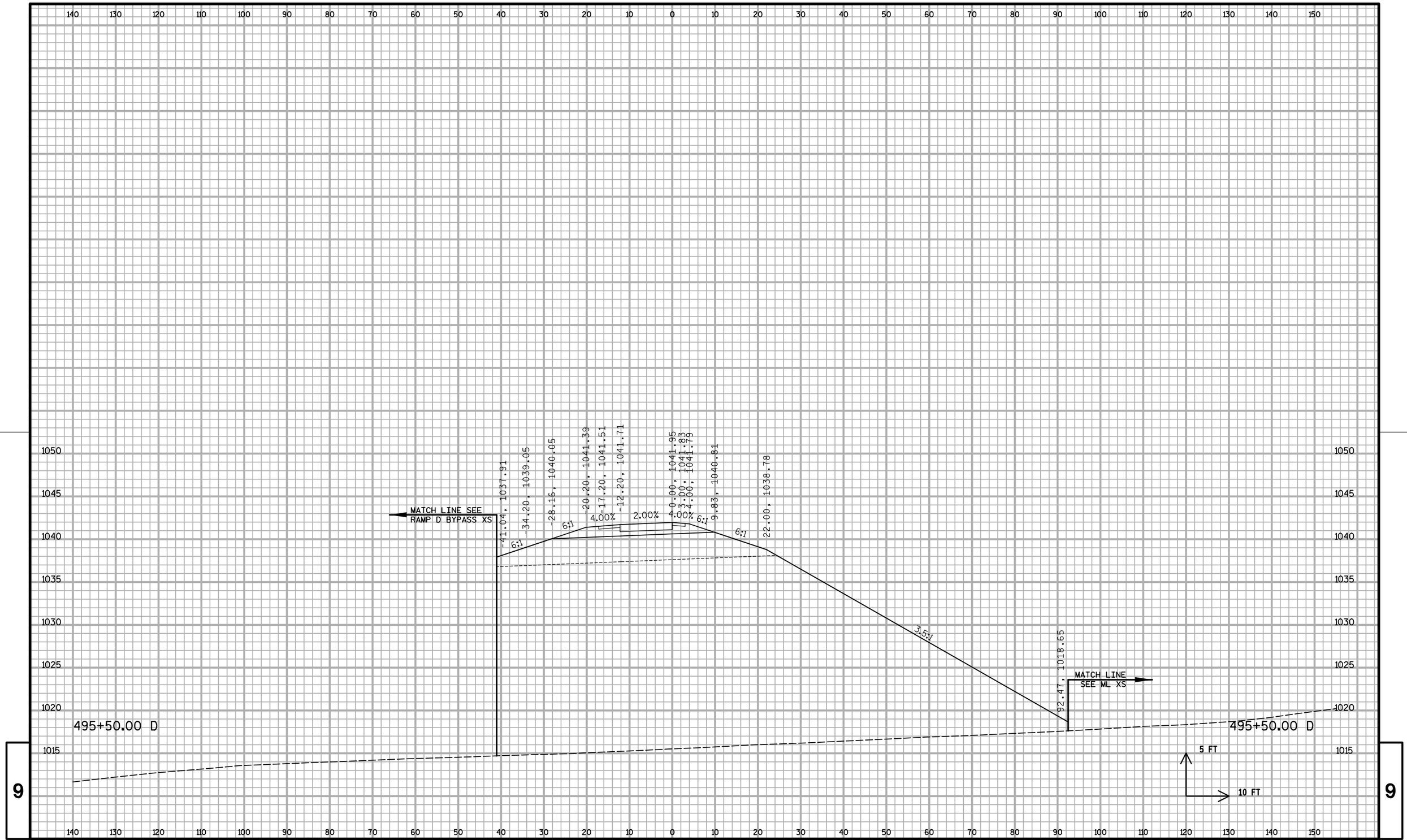


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: D RAMP S3	SHEET:	E

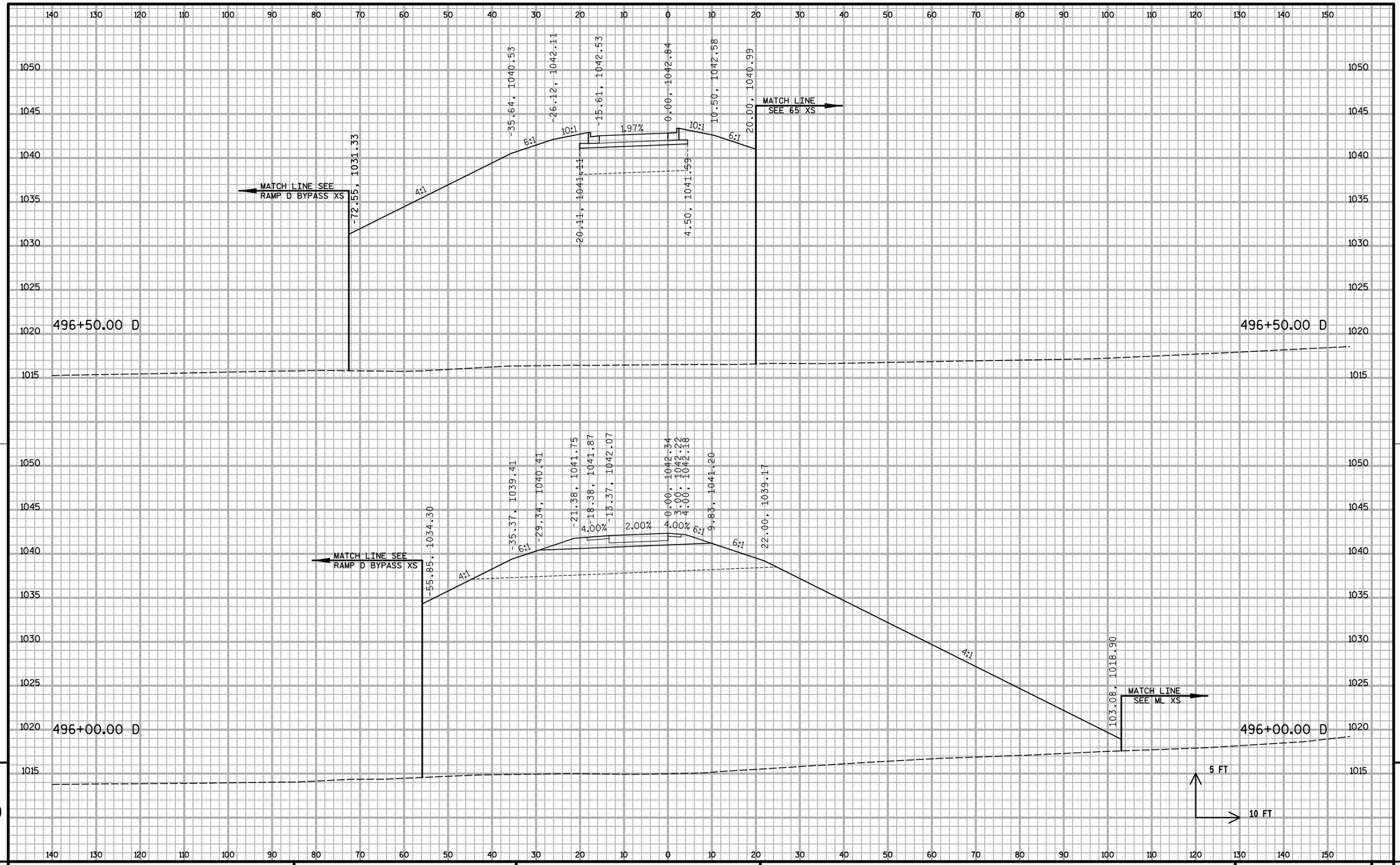
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: D RAMP S3	SHEET: 1064 E

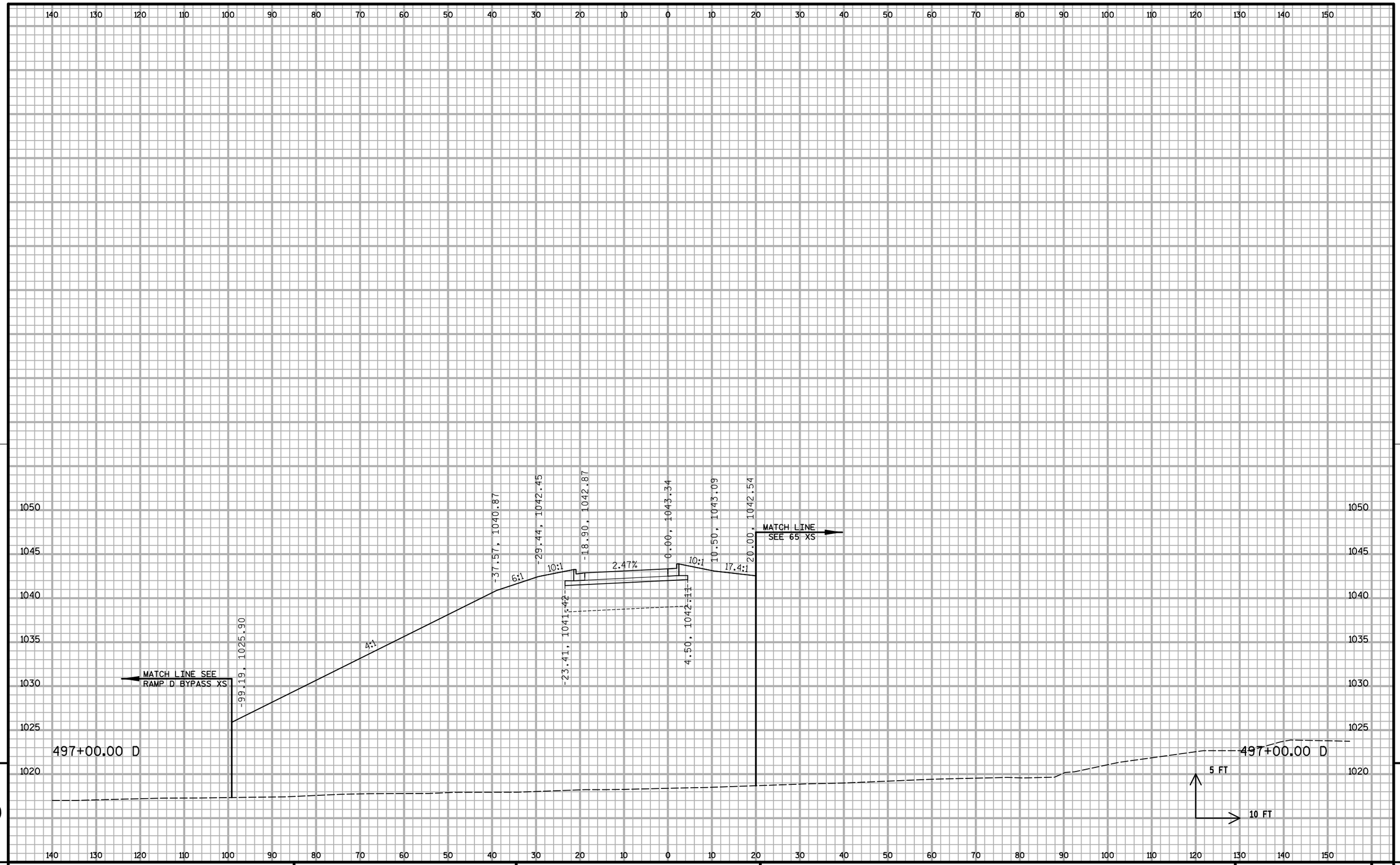
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WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: D RAMP S3	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090205_Dxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

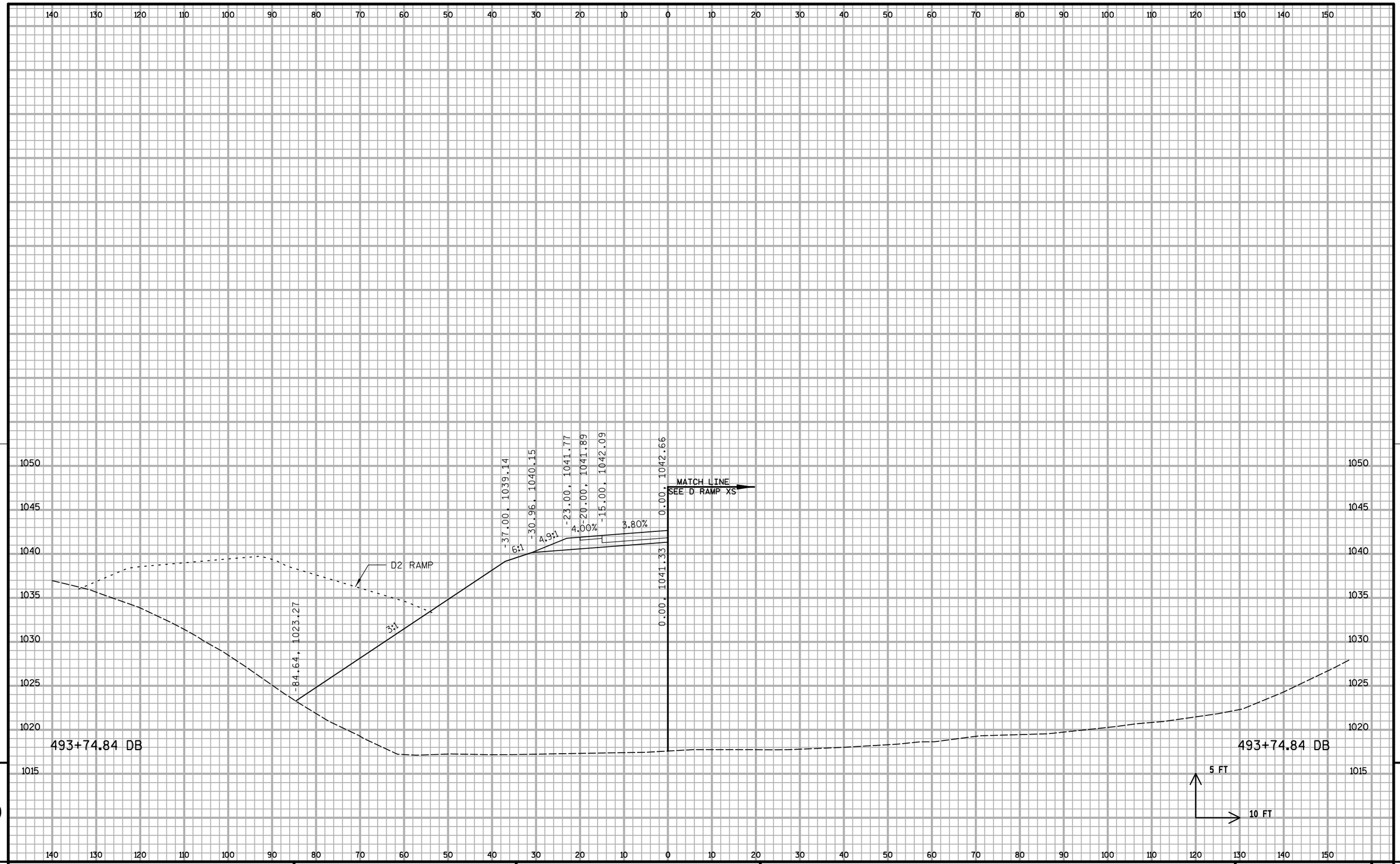


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: D RAMP S3	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090205_Dxs_S3.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

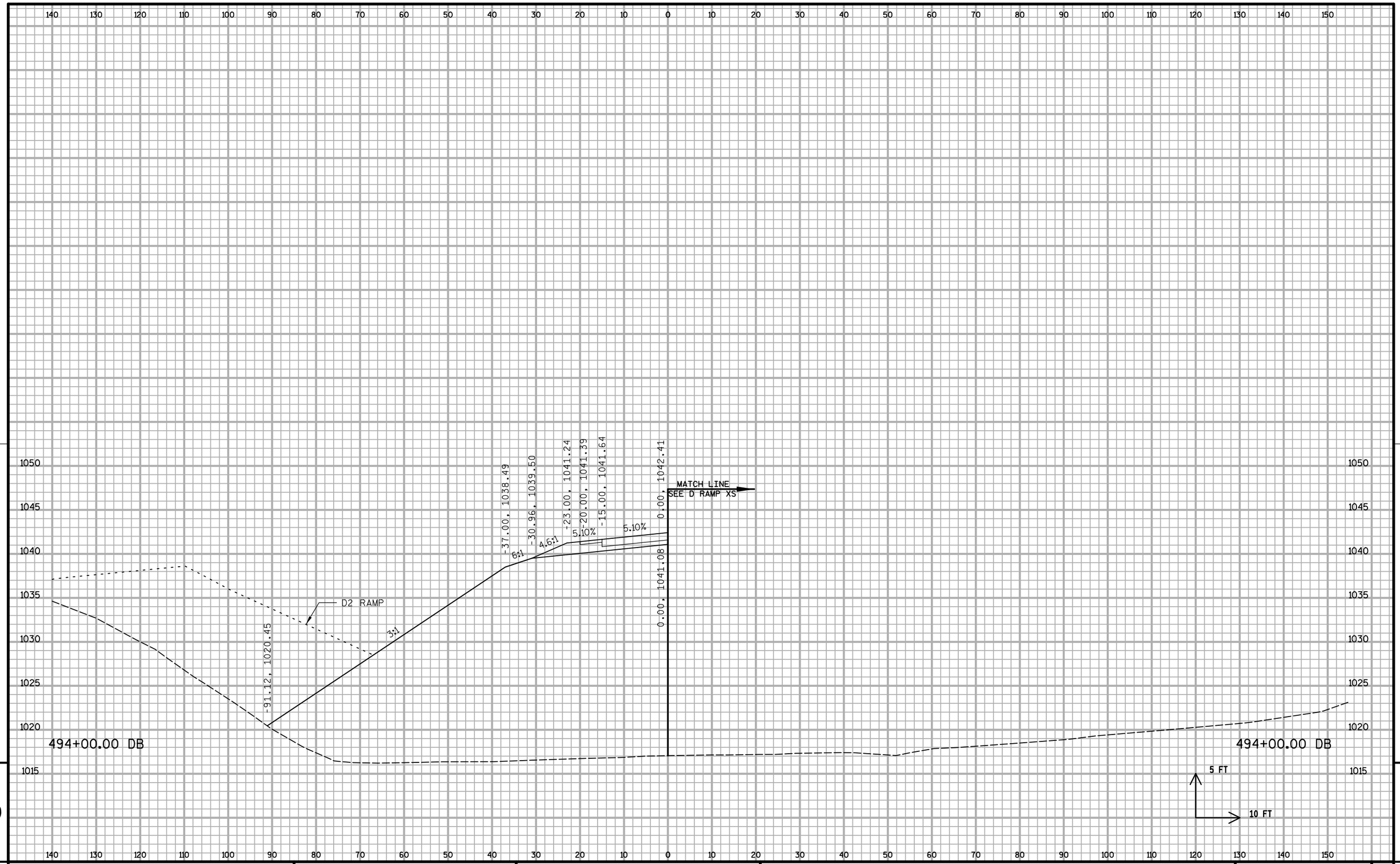


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: D RAMP BYPASS	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090206_DBYxs.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

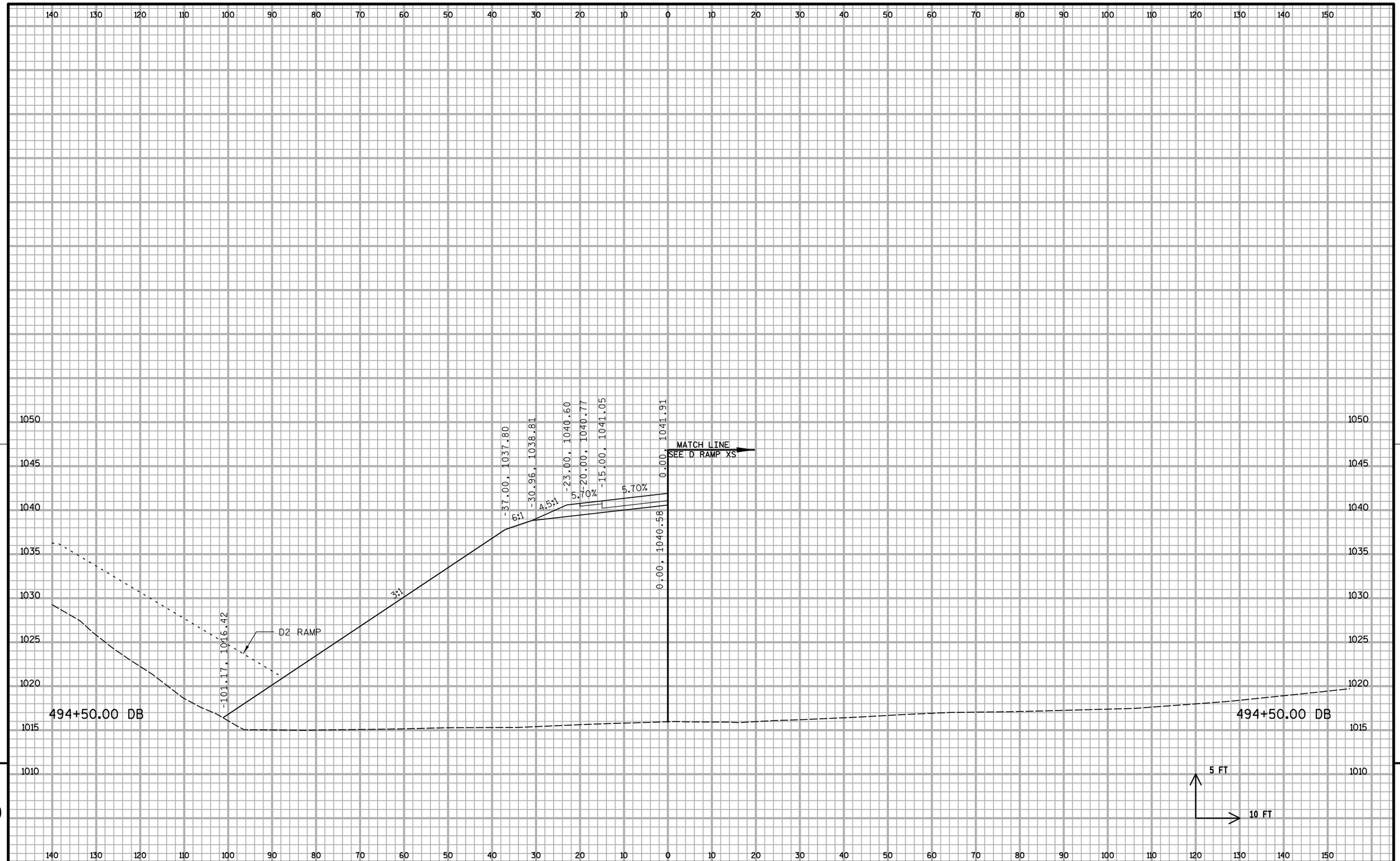


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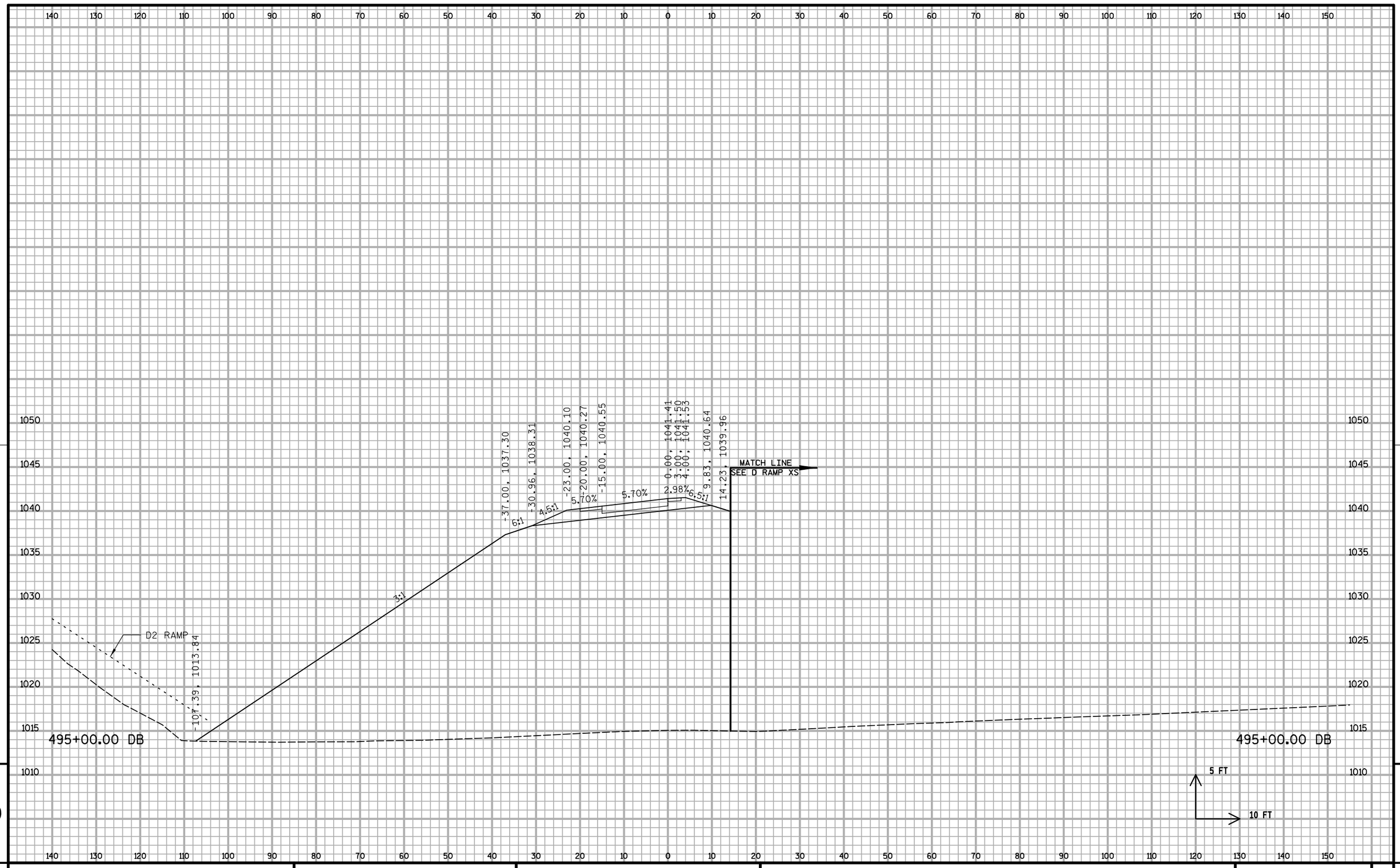
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: D RAMP BYPASS	SHEET: 1068 E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090206_DBYxs.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



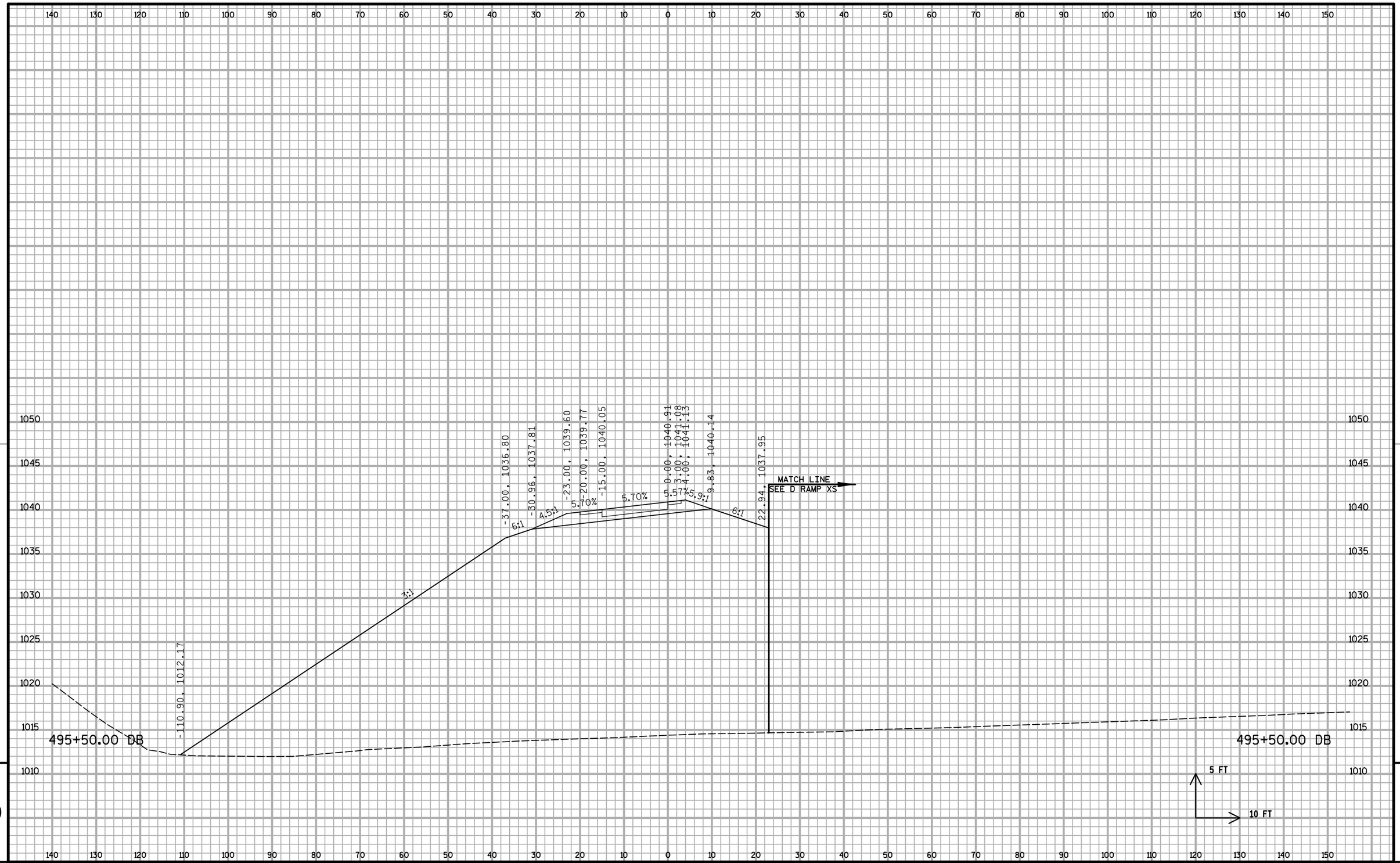
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: D RAMP BYPASS	SHEET: 1069 E



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: D RAMP BYPASS	SHEET: 1070	E

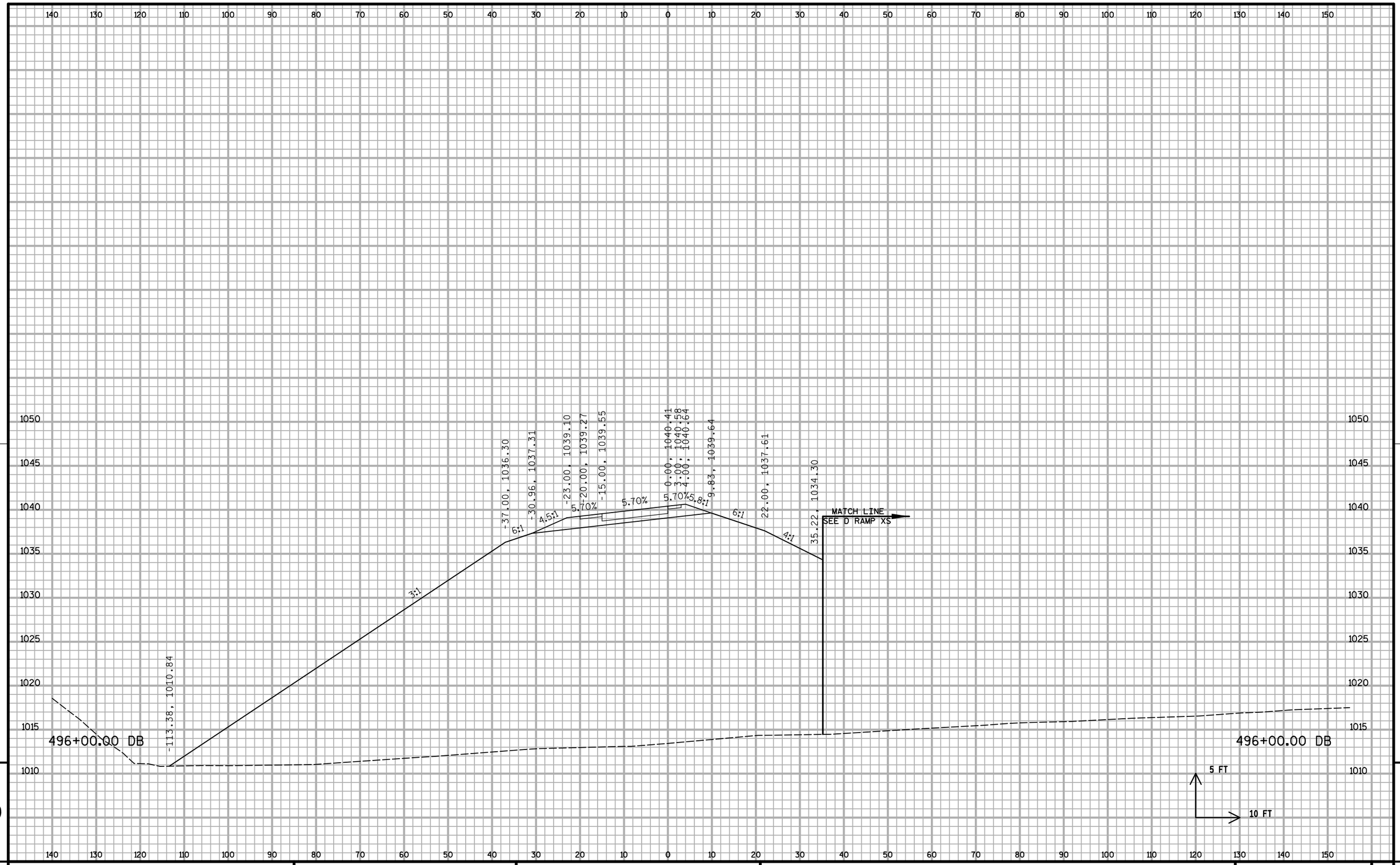
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WISDOT/CADDS SHEET 21



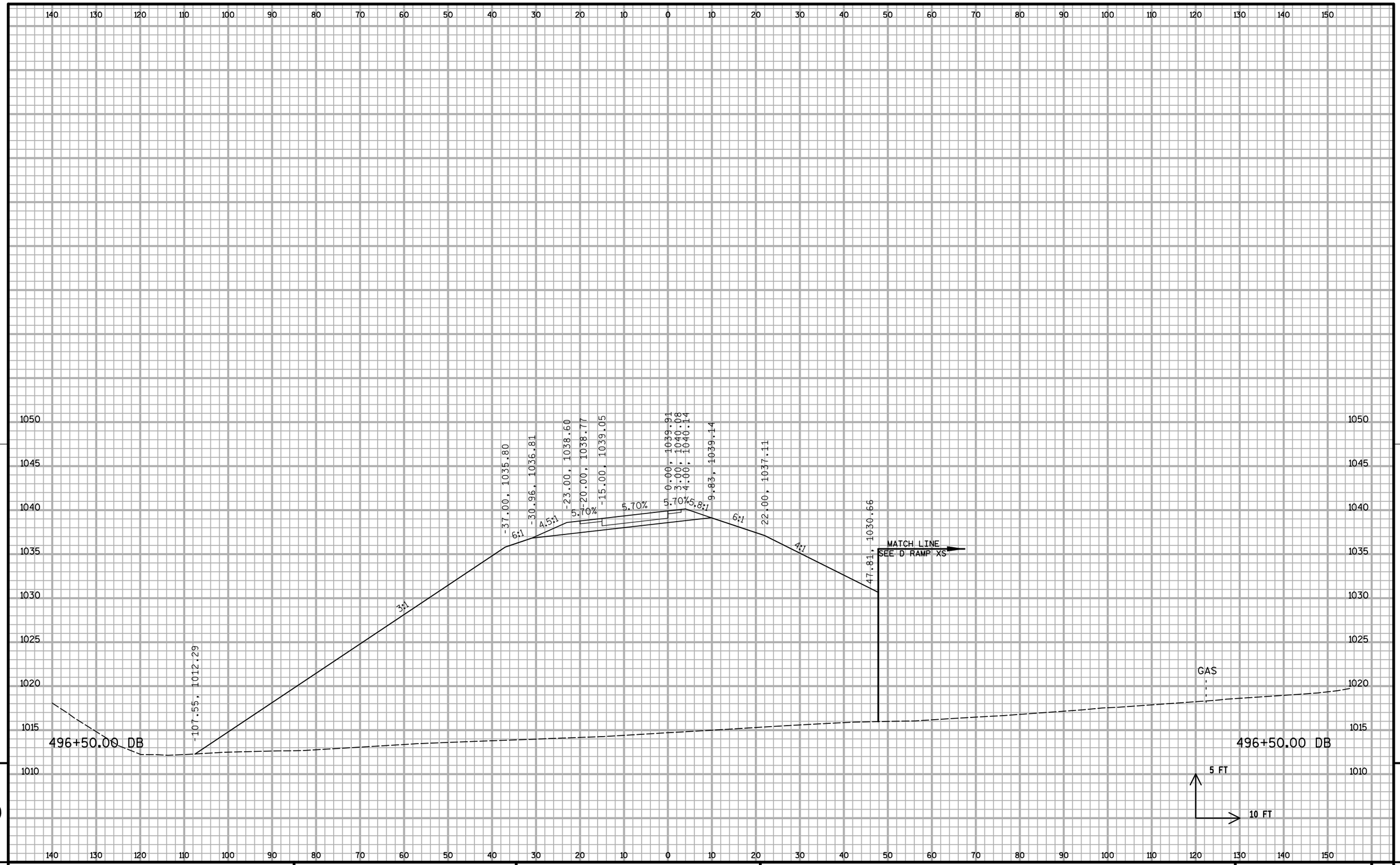
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: D RAMP BYPASS	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090206_DBYxs.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



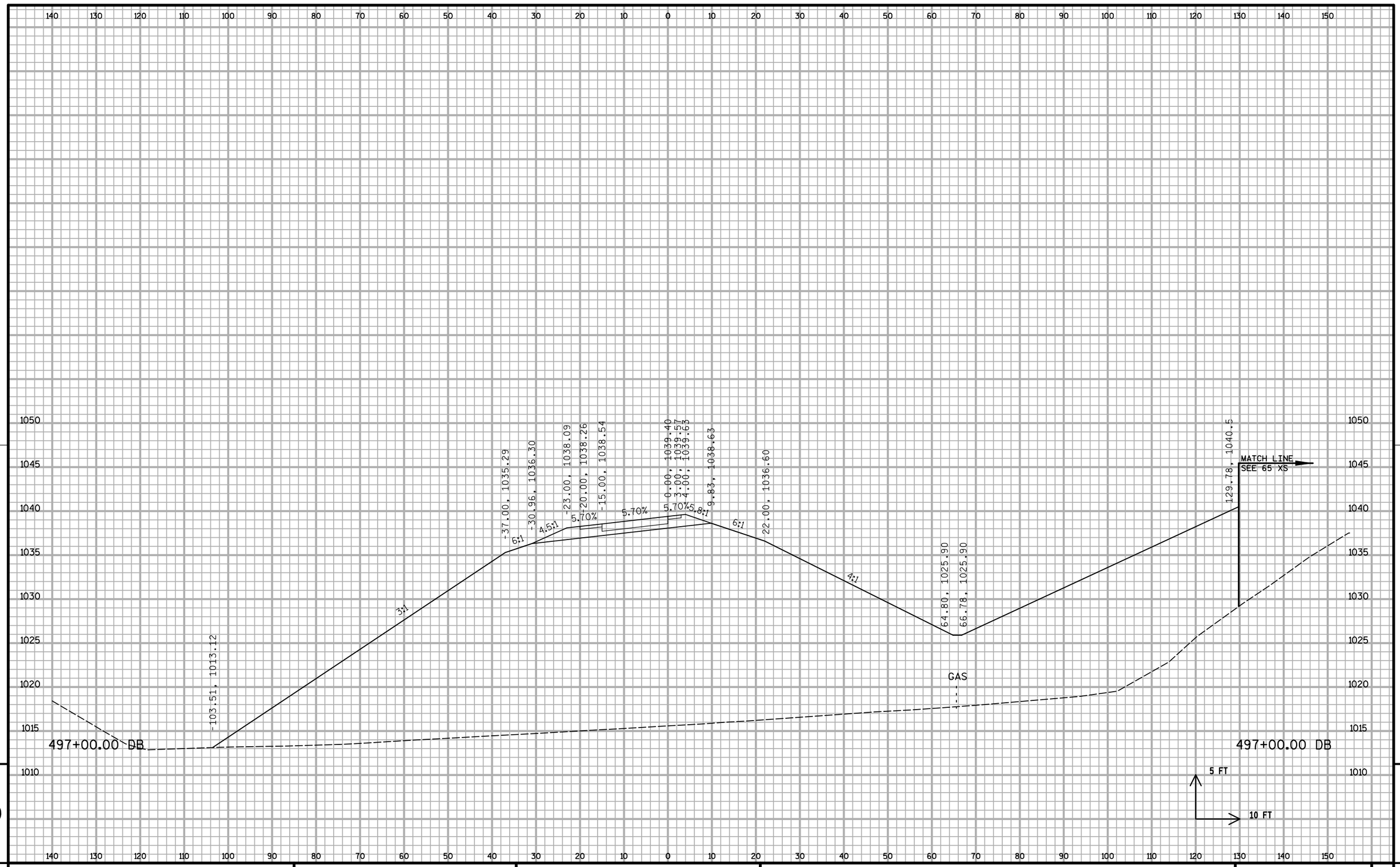
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: D RAMP BYPASS	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090206_DBYxs.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



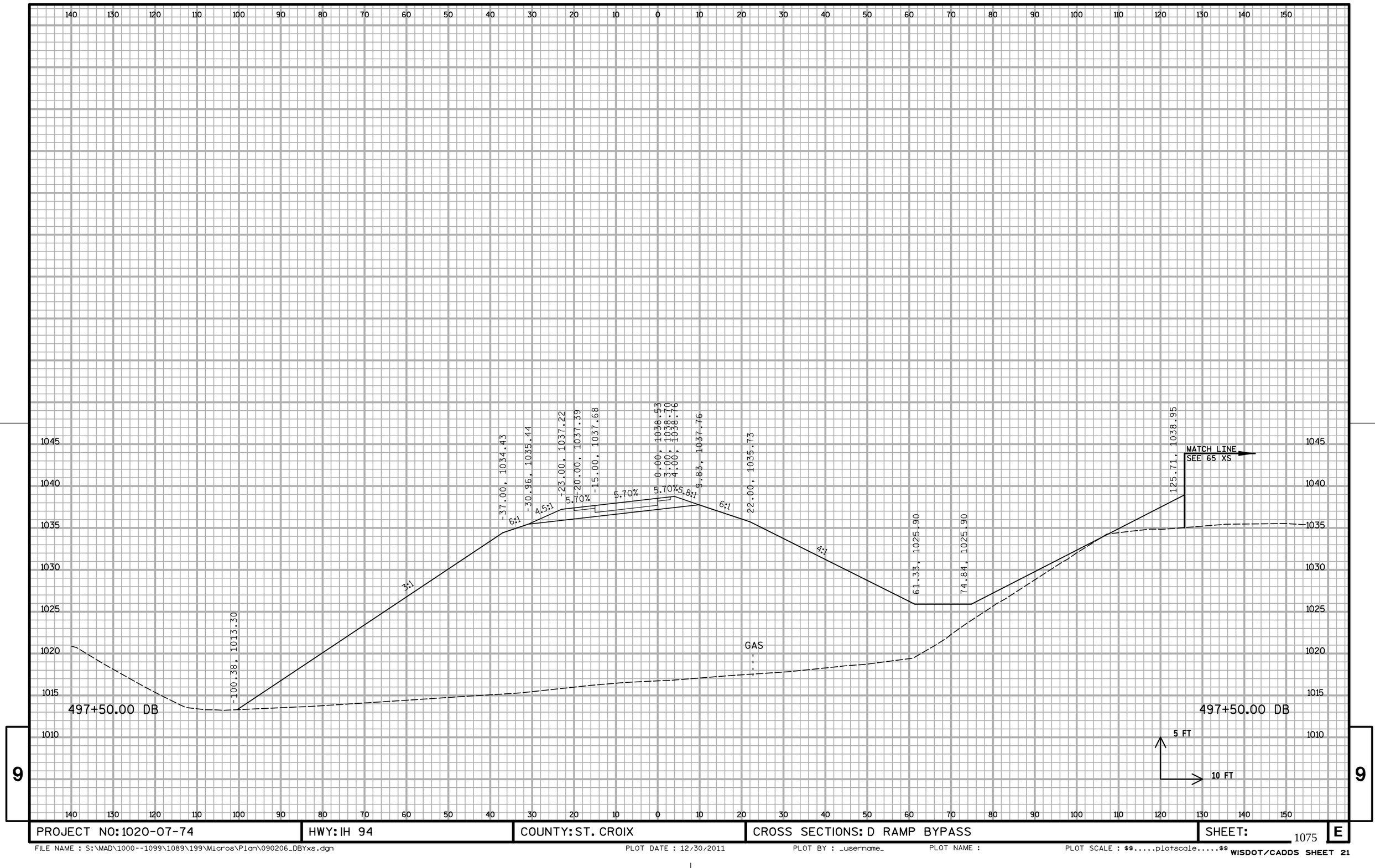
PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: D RAMP BYPASS	SHEET: 1073 E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090206_DBYxs.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: D RAMP BYPASS	SHEET: 1074	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090206_DBYxs.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

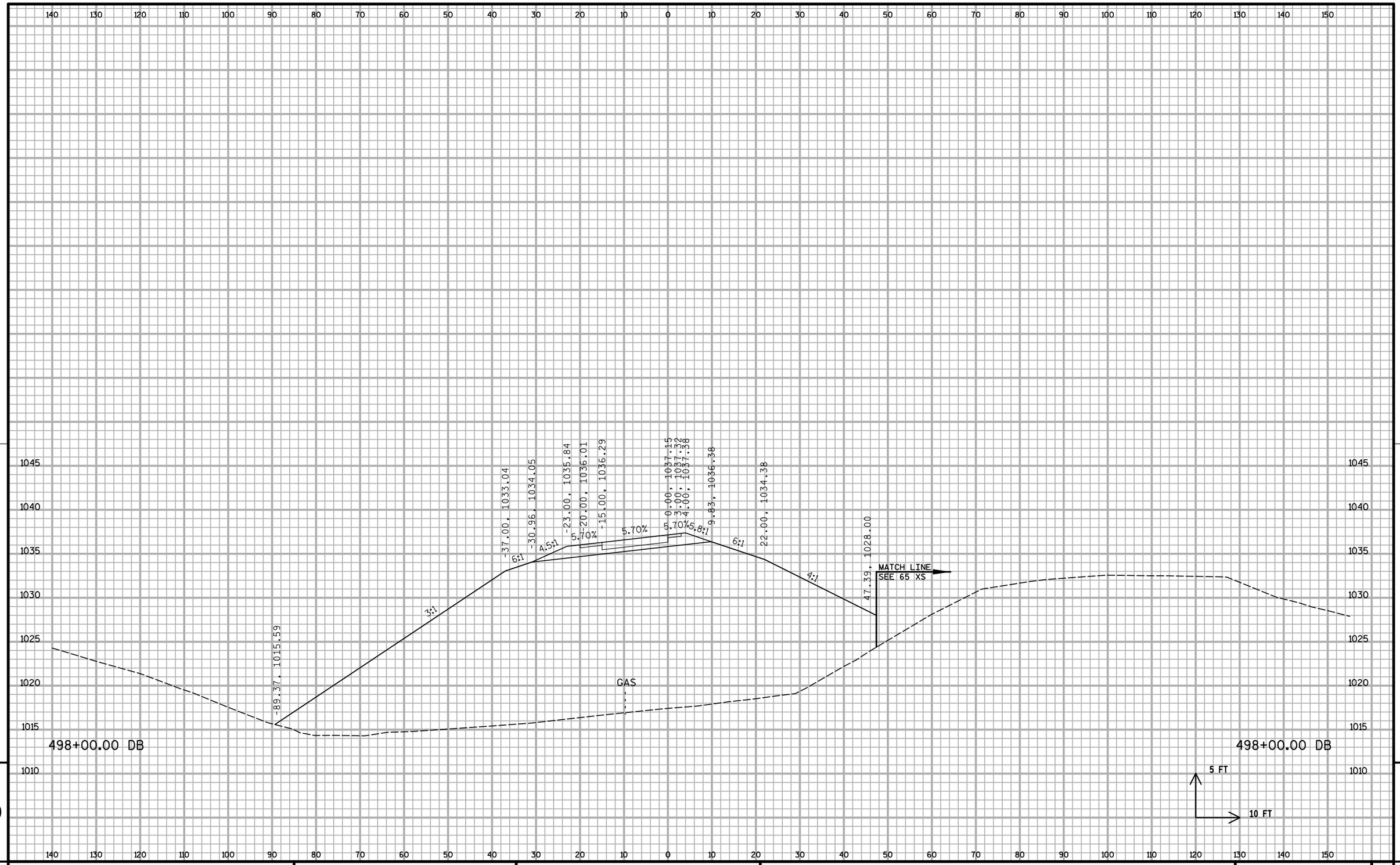


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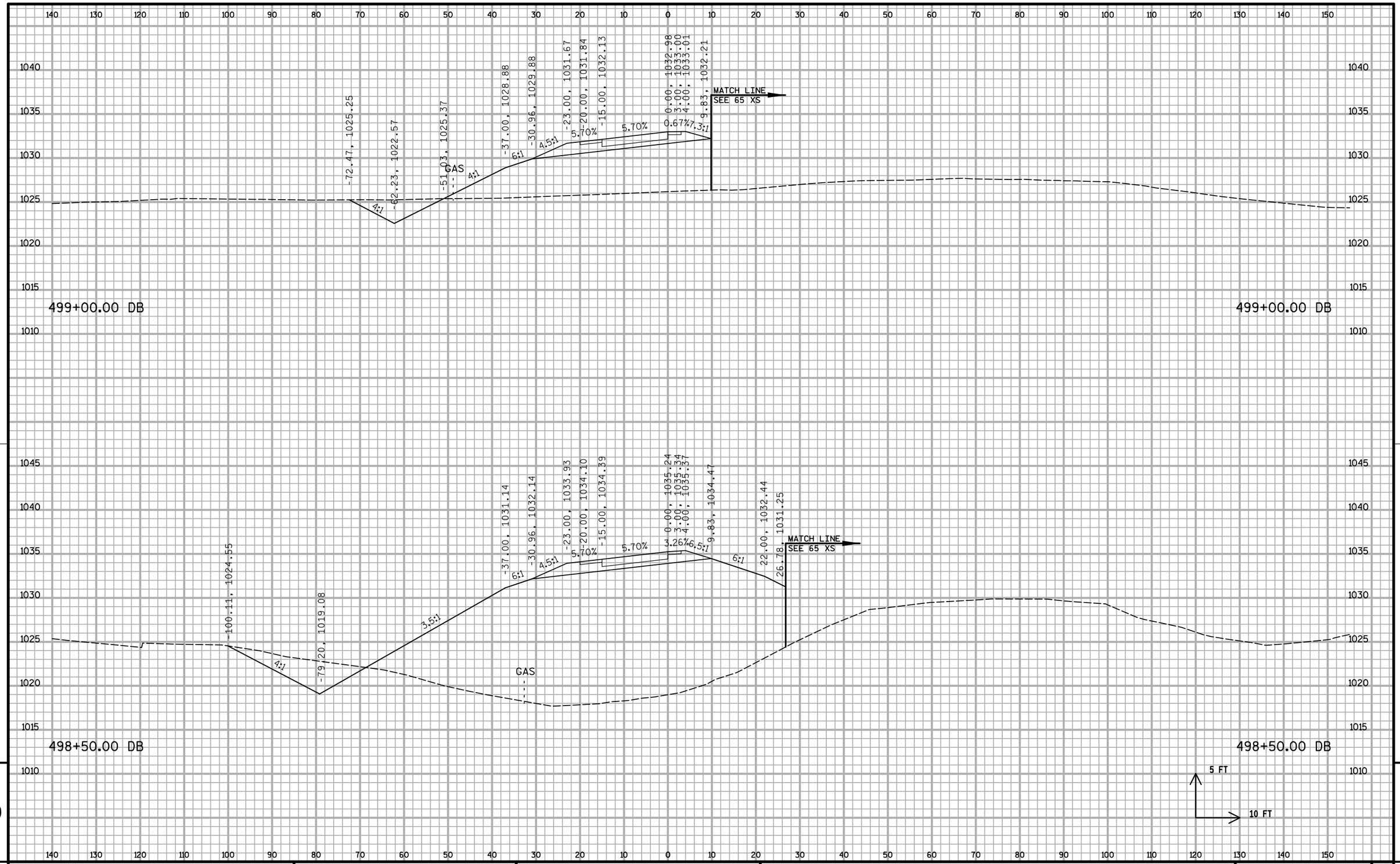
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: D RAMP BYPASS	SHEET:	E

FILE NAME : S:\MAD\1000--1099\1089\199\Micros\Plan\090206_DBYxs.dgn PLOT DATE : 12/30/2011 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: D RAMP BYPASS	SHEET: 1076 E

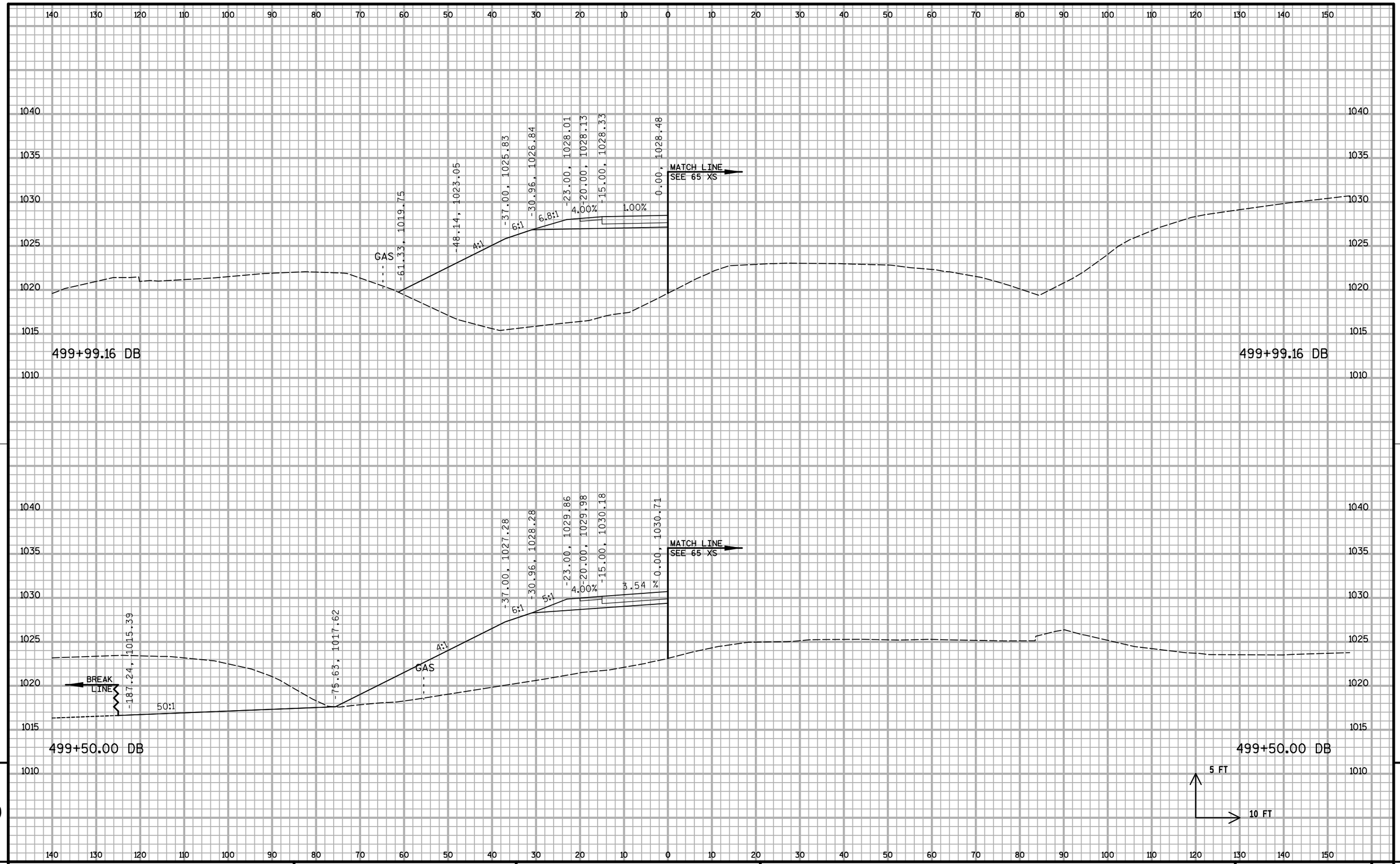


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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: D RAMP BYPASS	SHEET:	E

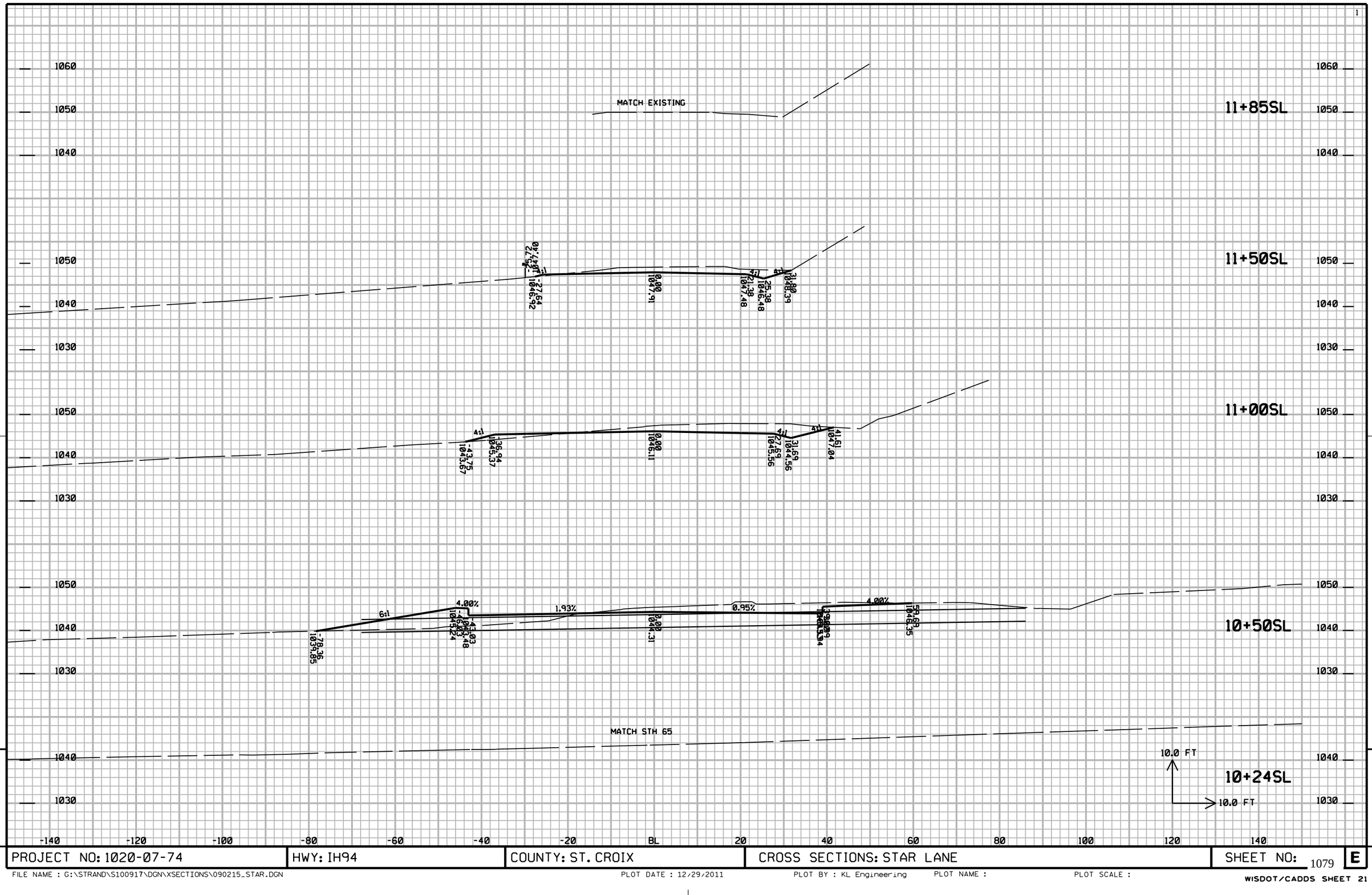
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PROJECT NO: 1020-07-74	HWY: IH 94	COUNTY: ST. CROIX	CROSS SECTIONS: D RAMP BYPASS	SHEET: 1078	E

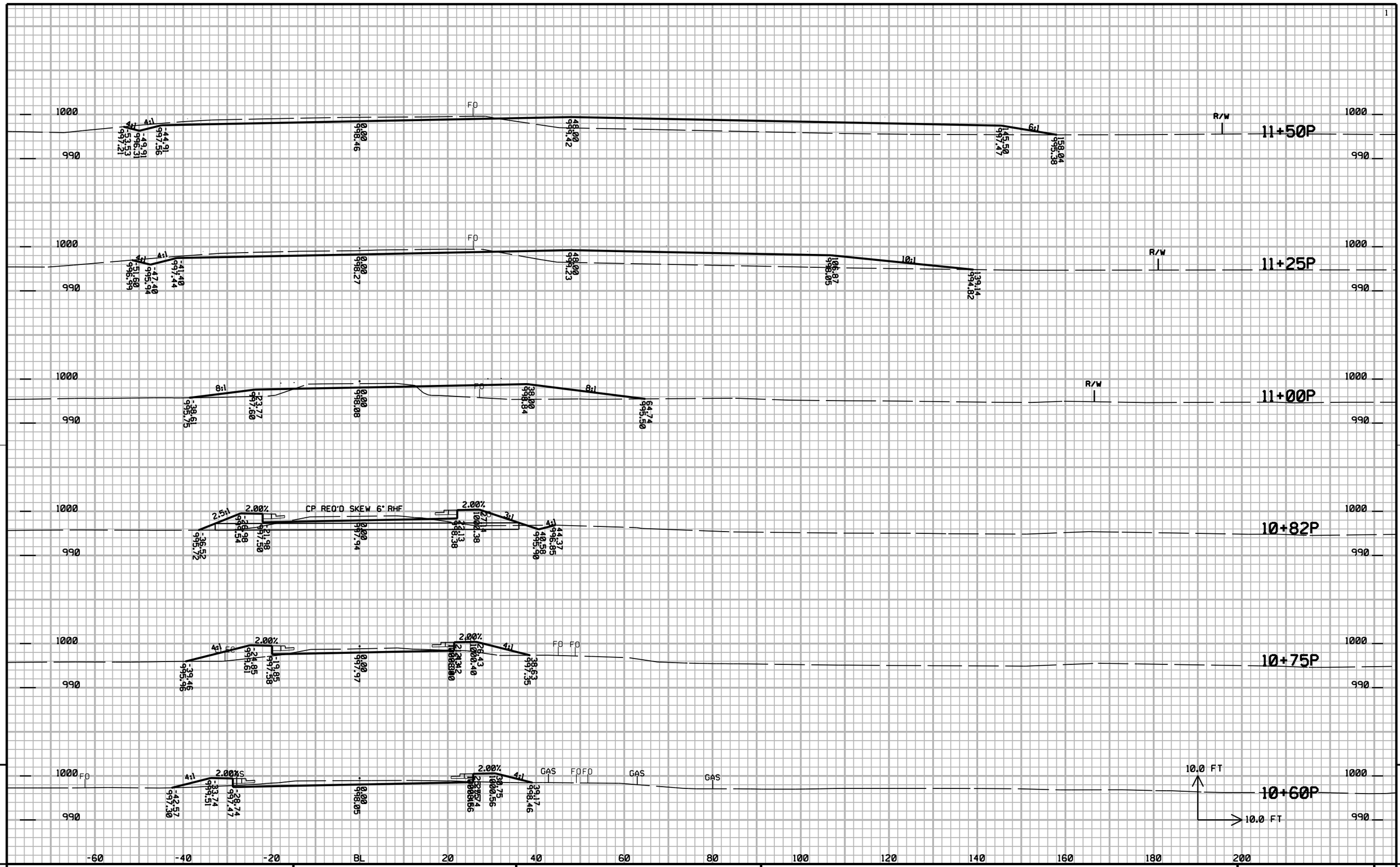


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PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST. CROIX	CROSS SECTIONS: STAR LANE	SHEET NO: 1079	E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090215_STAR.DGN PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :



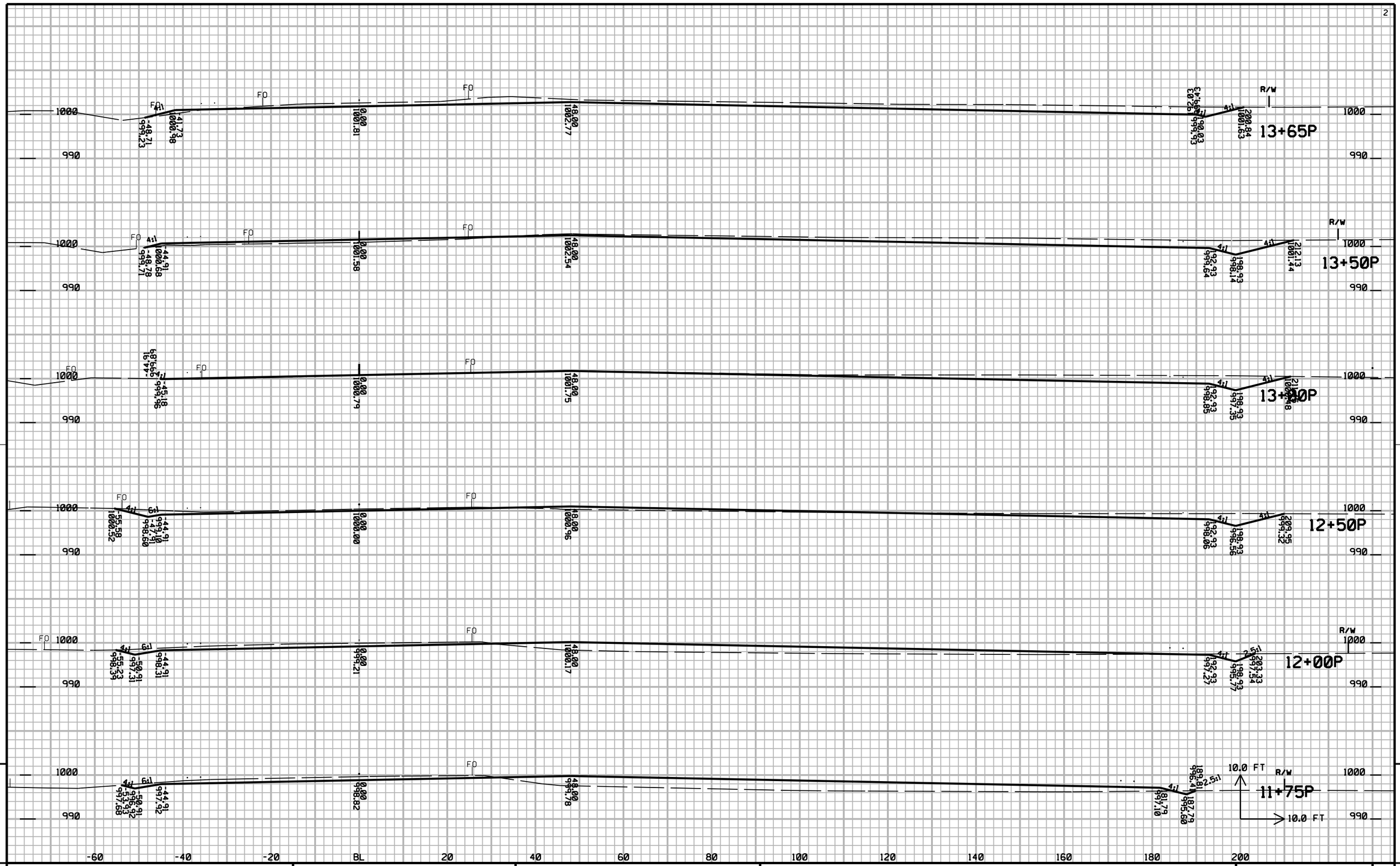
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PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: PARK AND RIDE	SHEET NO: 1080 E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090202_PKXS.DGN PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 21



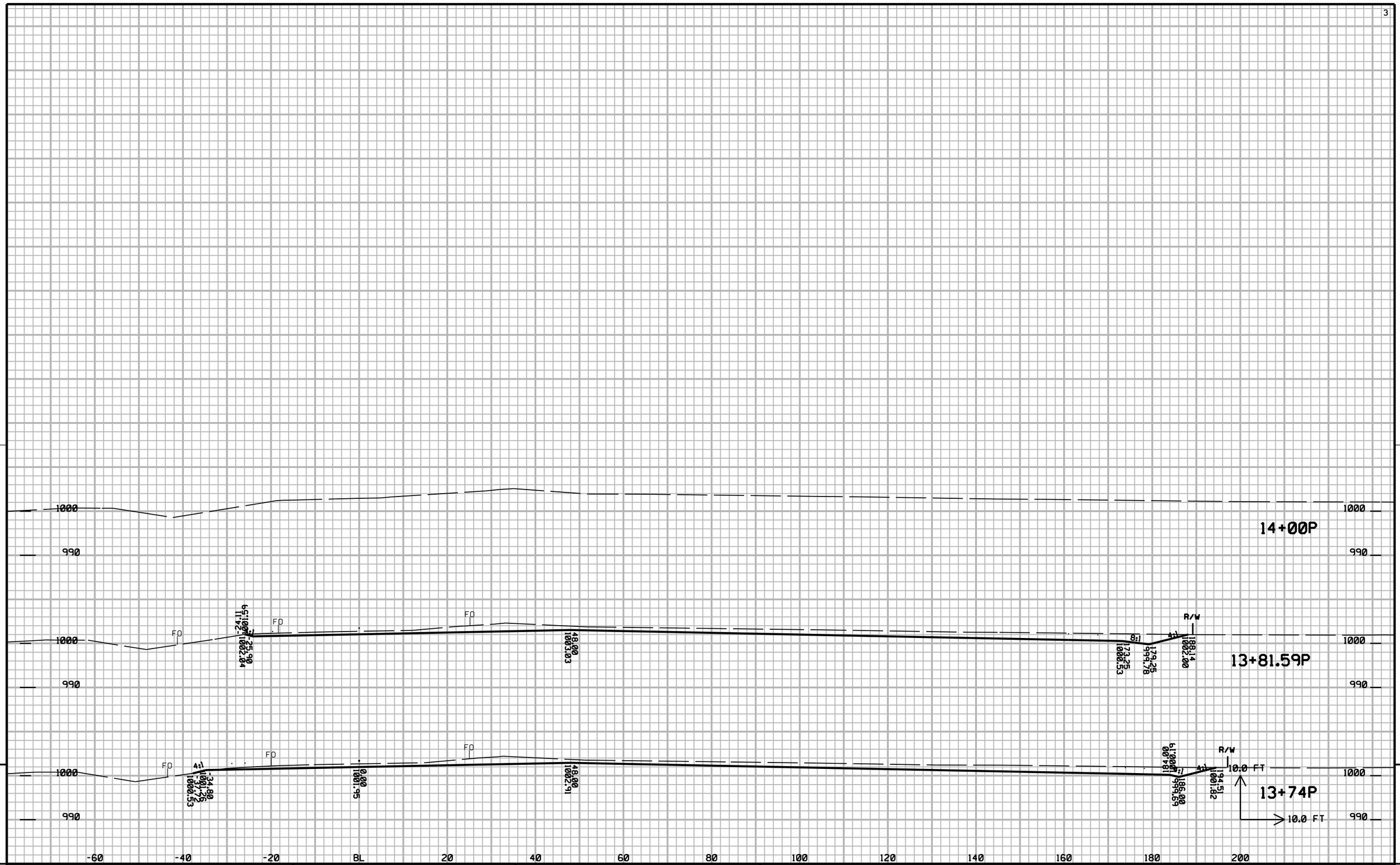
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PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: PARK AND RIDE	SHEET NO: 1081	E

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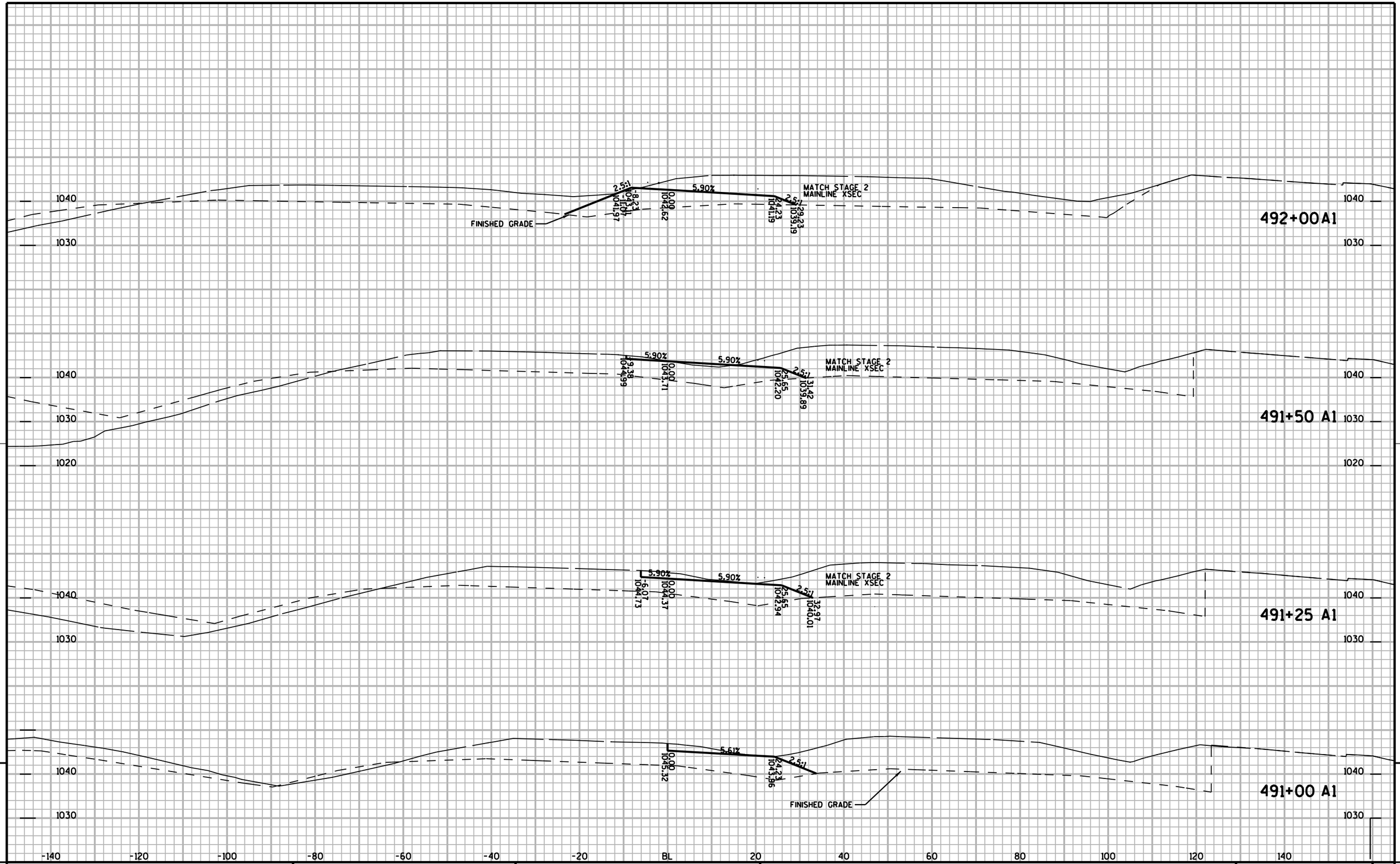
WISDOT/CADDS SHEET 21



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PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: PARK AND RIDE	SHEET NO: 1082 E

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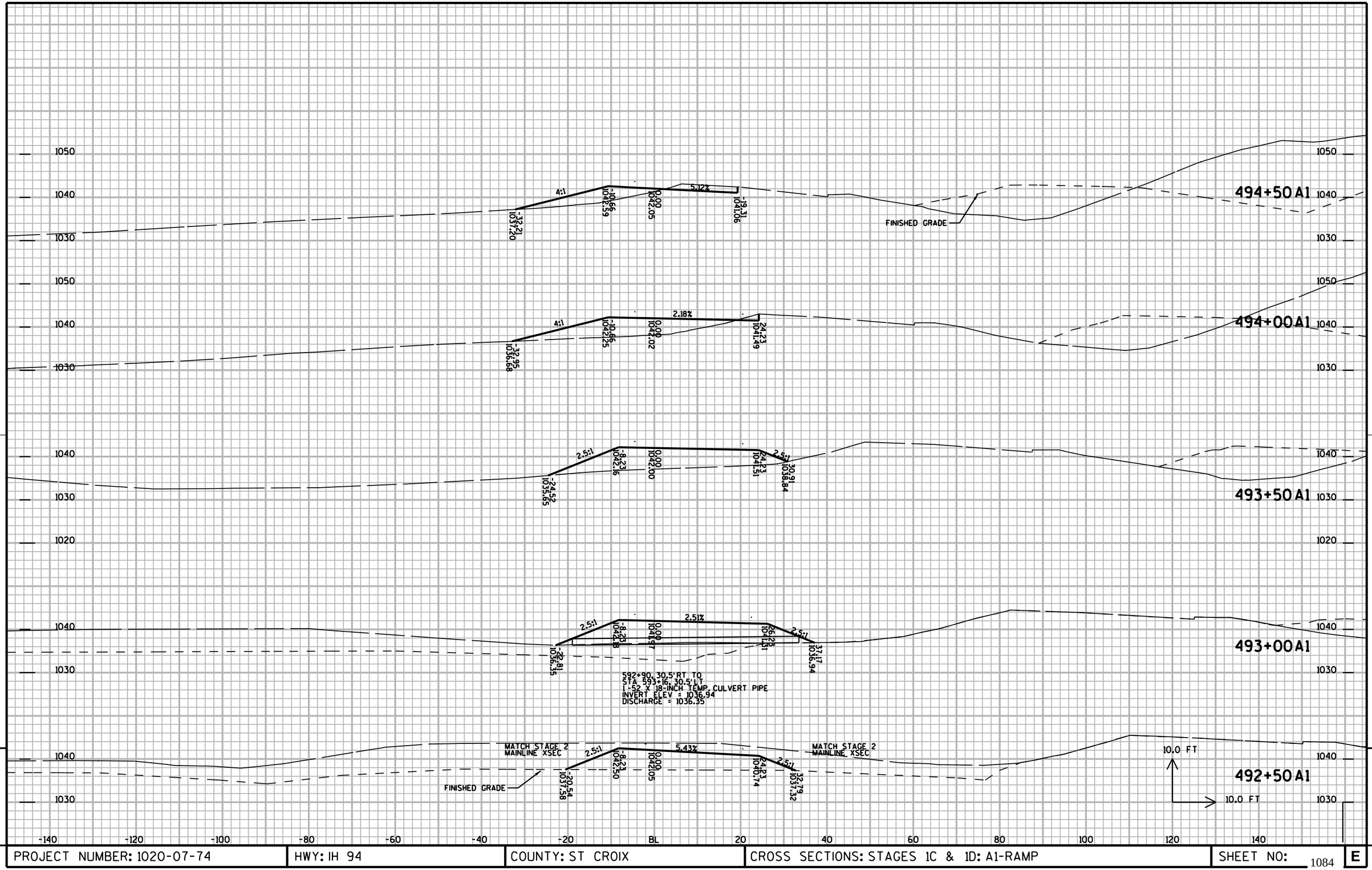
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PROJECT NUMBER: 1020-07-74	HWY: IH 94	COUNTY: ST CROIX	CROSS SECTIONS: STAGES 1C & 1D: A1-RAMP	SHEET NO: 1083 E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090205_1AXS.DGN PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

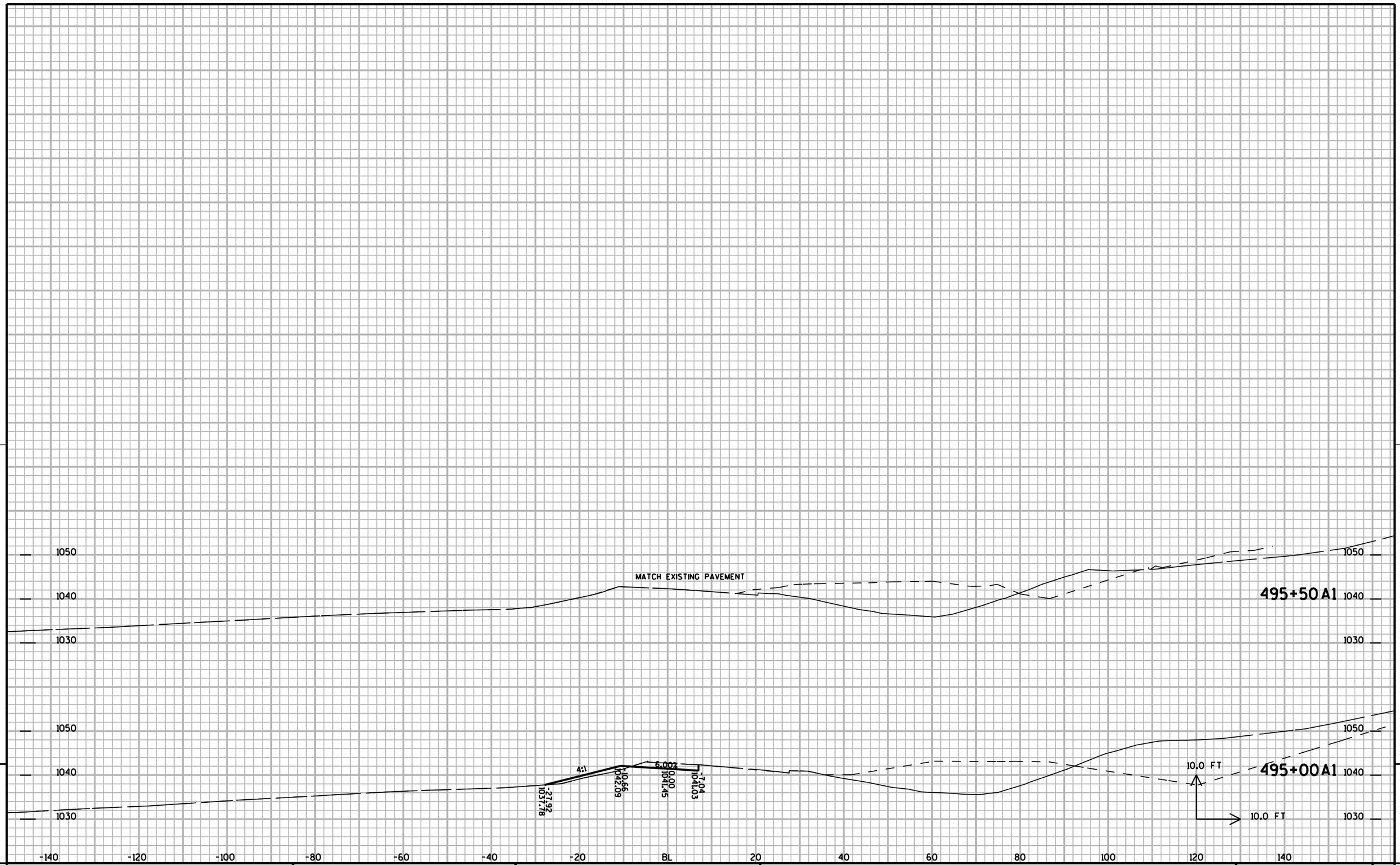
WISDOT/CADDS SHEET 21



PROJECT NUMBER: 1020-07-74	HWY: IH 94	COUNTY: ST CROIX	CROSS SECTIONS: STAGES 1C & 1D: A1-RAMP	SHEET NO: 1084 E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090205_1AXS.DGN PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 21



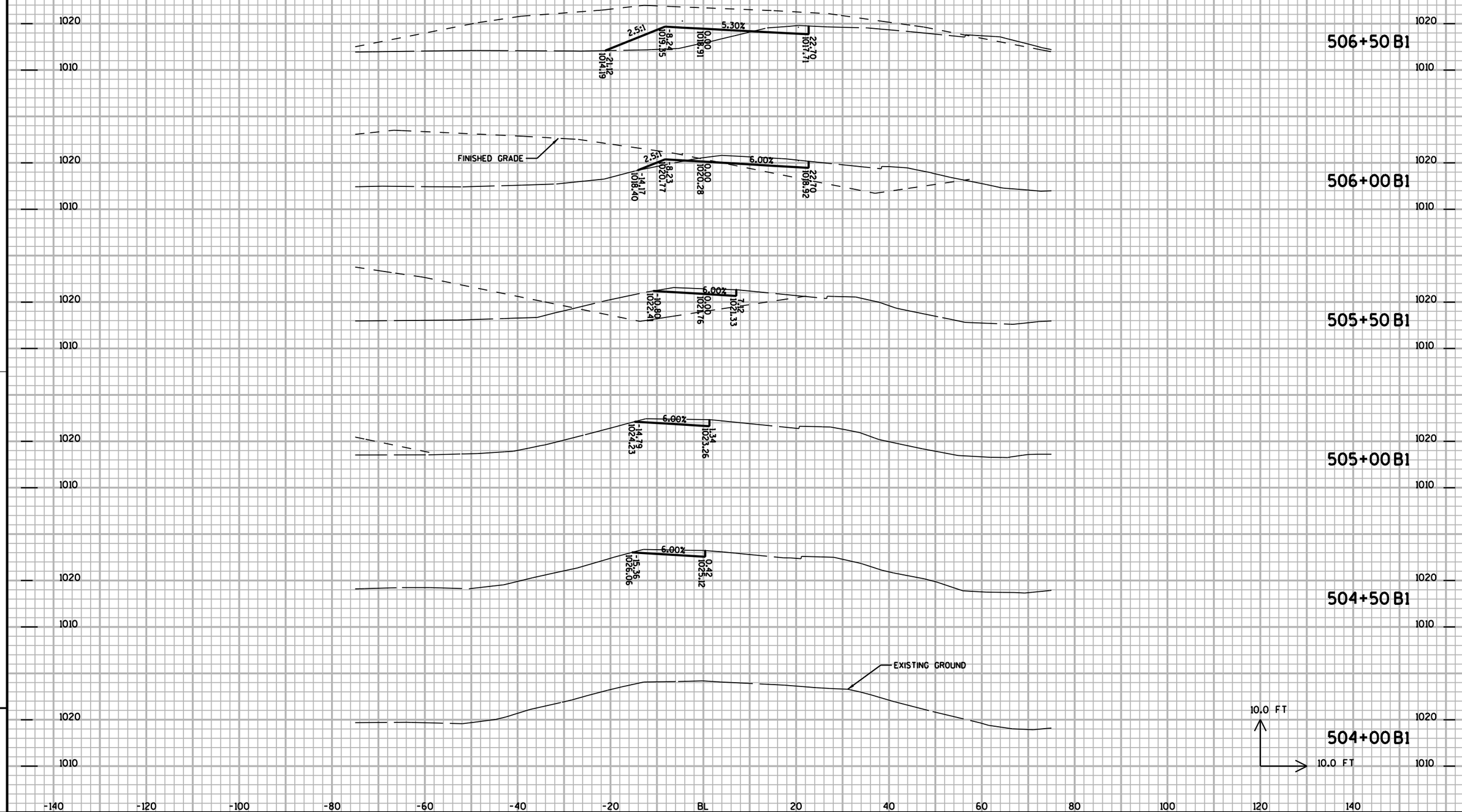
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PROJECT NUMBER: 1020-07-74	HWY: IH 94	COUNTY: ST CROIX	CROSS SECTIONS: STAGES 1C & 1D: A1-RAMP	SHEET NO: 1085	E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090205_1AXS.DGN PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 21



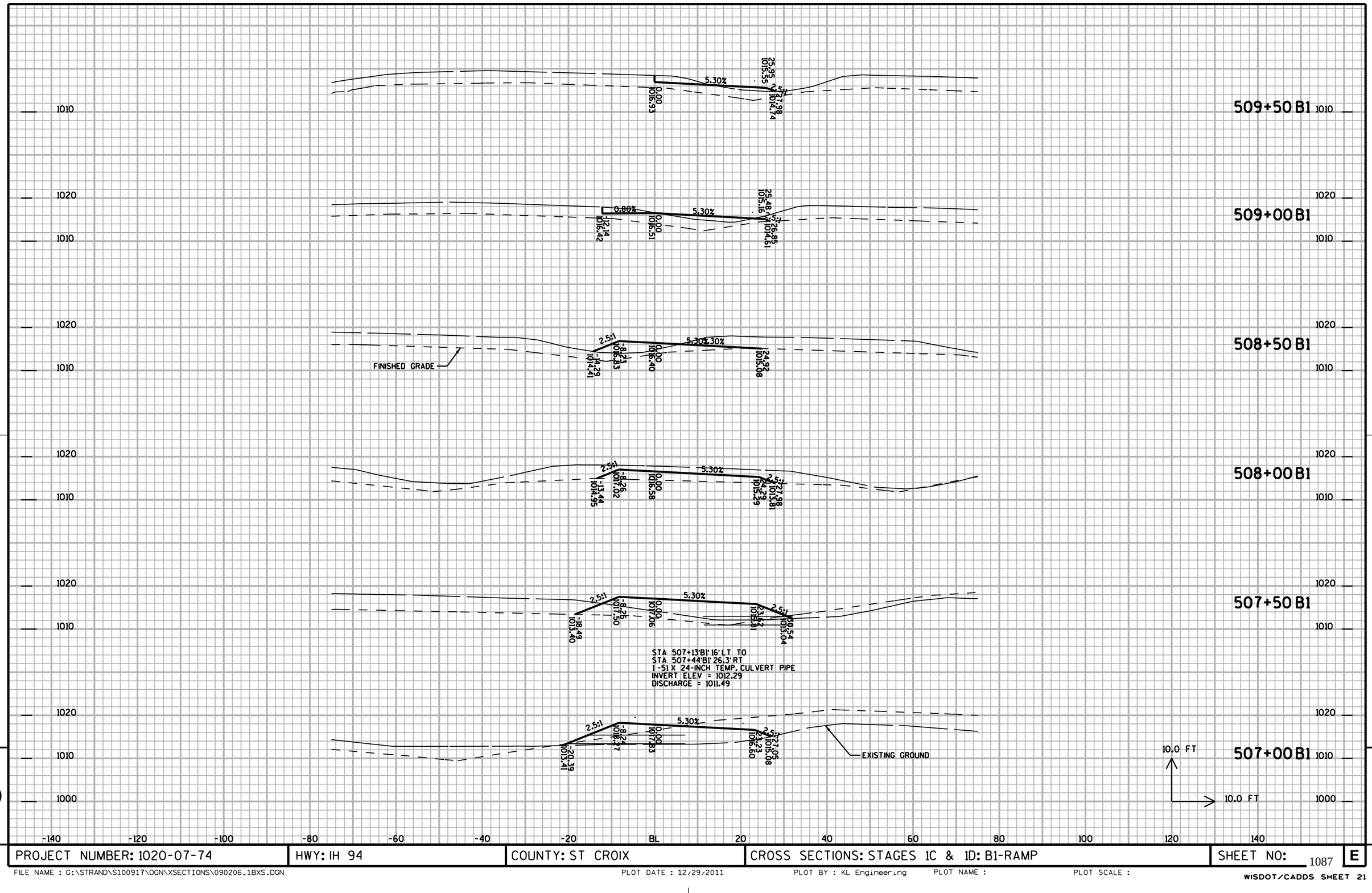
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PROJECT NUMBER: 1020-07-74	HWY: IH 94	COUNTY: ST CROIX	CROSS SECTIONS: STAGES 1C & 1D: B1-RAMP	SHEET NO: 1086	E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090206_1BXS.DGN PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

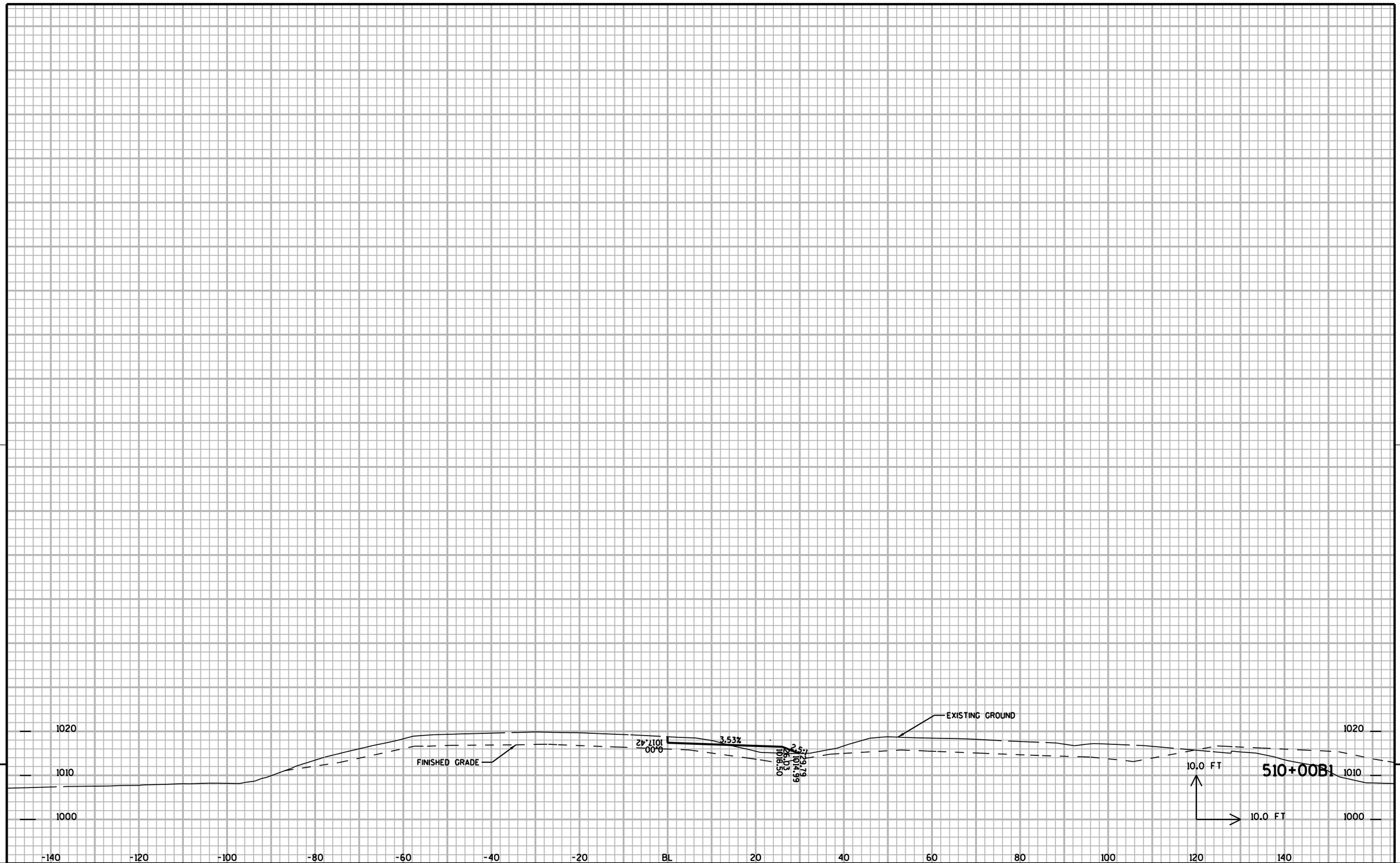
WISDOT/CADDS SHEET 21



PROJECT NUMBER: 1020-07-74	HWY: IH 94	COUNTY: ST CROIX	CROSS SECTIONS: STAGES 1C & 1D: B1-RAMP	SHEET NO: 1087	E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090206_1BXS.DGN PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 21



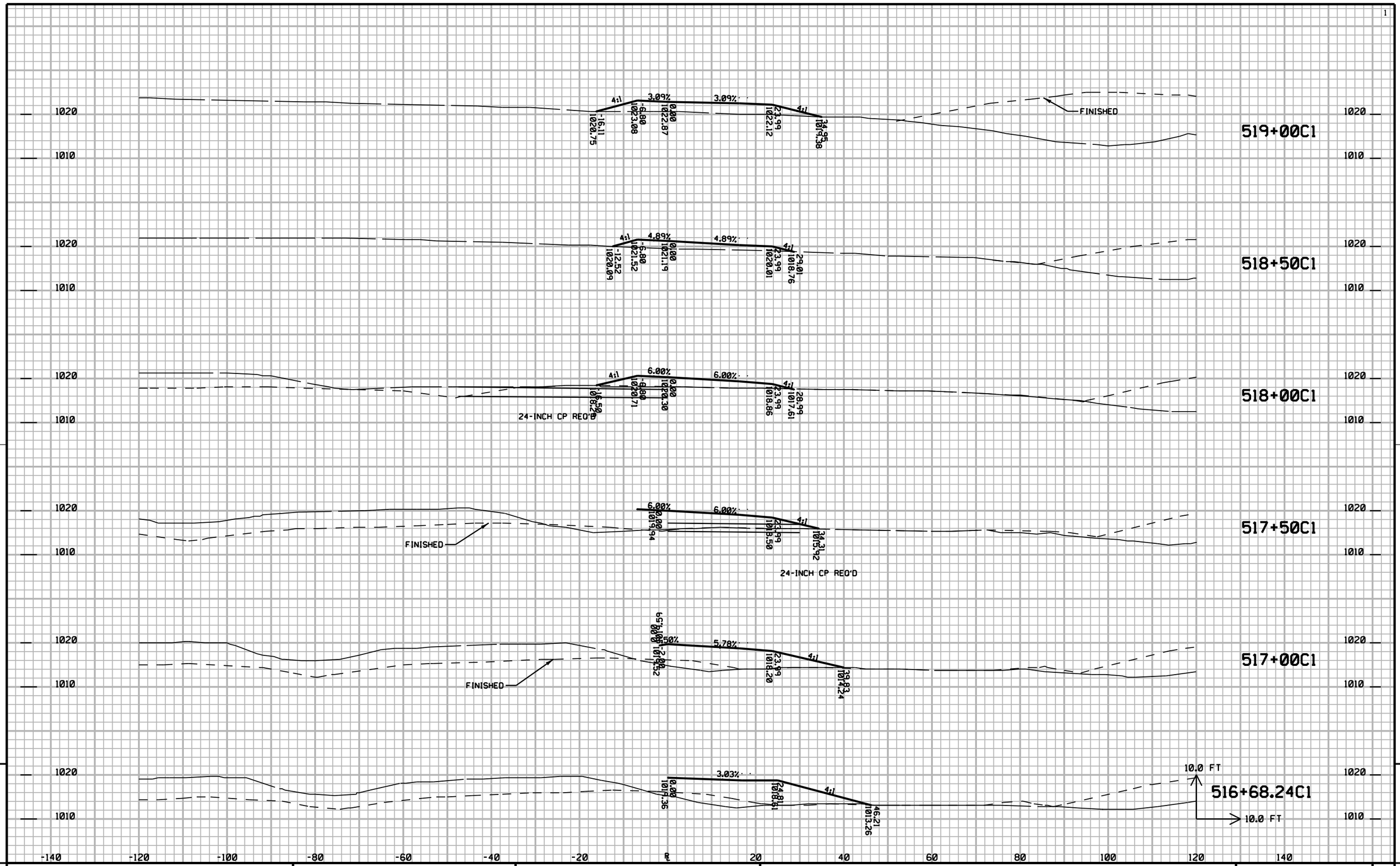
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PROJECT NUMBER: 1020-07-74	HWY: IH 94	COUNTY: ST CROIX	CROSS SECTIONS: STAGES 1C & 1D: B1-RAMP	SHEET NO: 1088	E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090206_1BXS.DGN PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 21

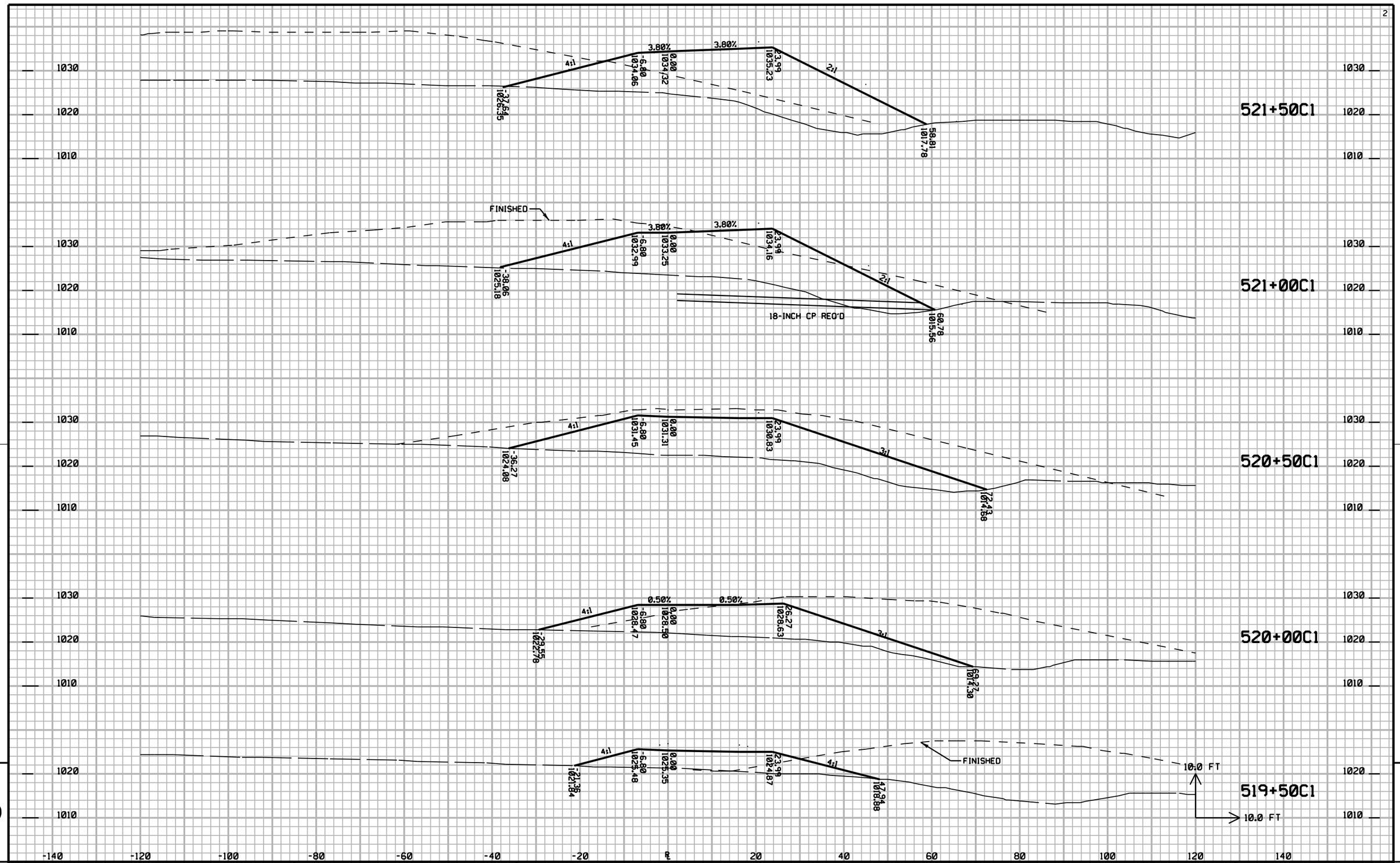


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PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: STAGE 1A:C1-RAMP	SHEET NO: 1089	E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090207_1CXS.DGN PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

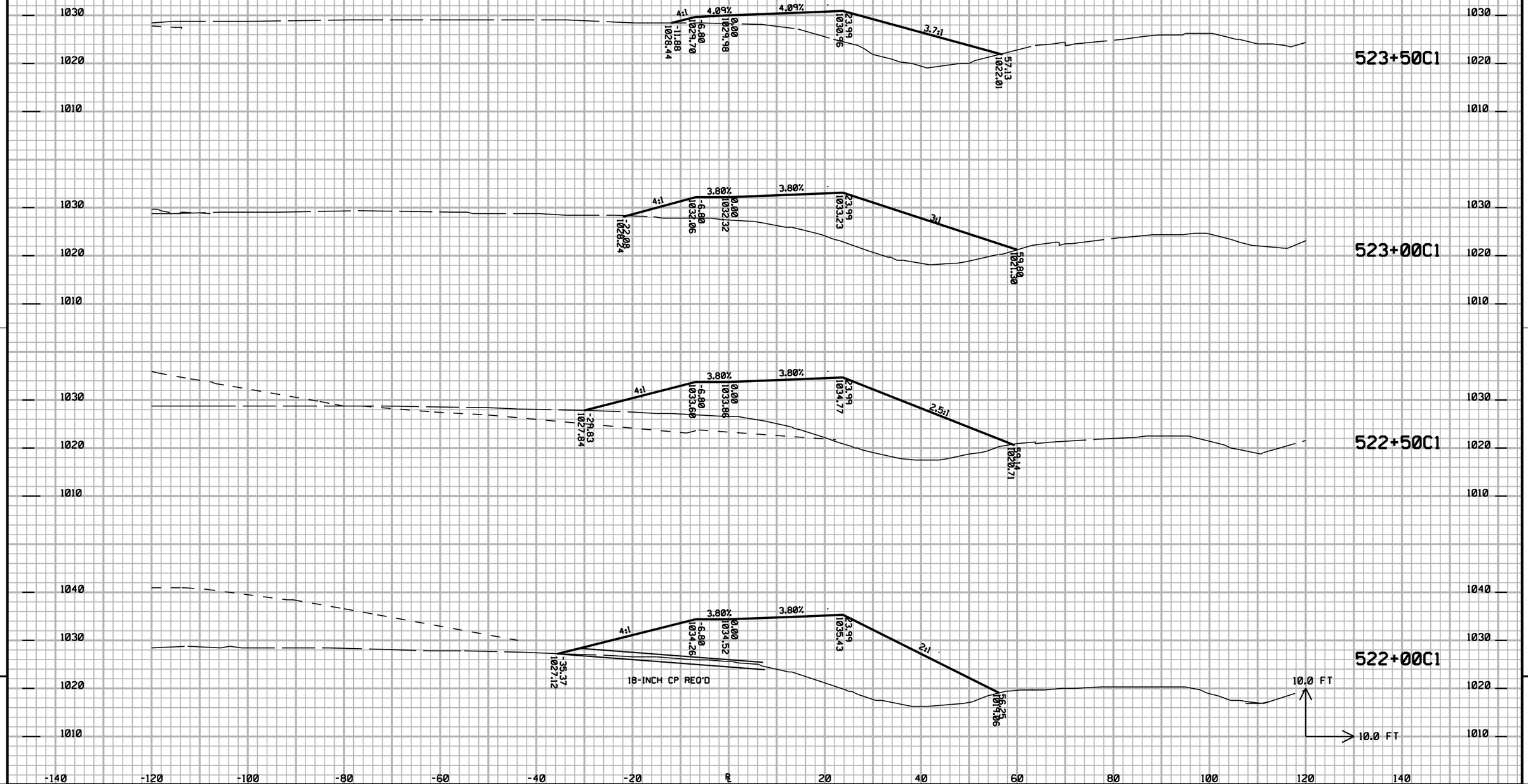


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PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: STAGE 1A:C1-RAMP	SHEET NO: 1090	E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090207_1CXS.DGN PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :



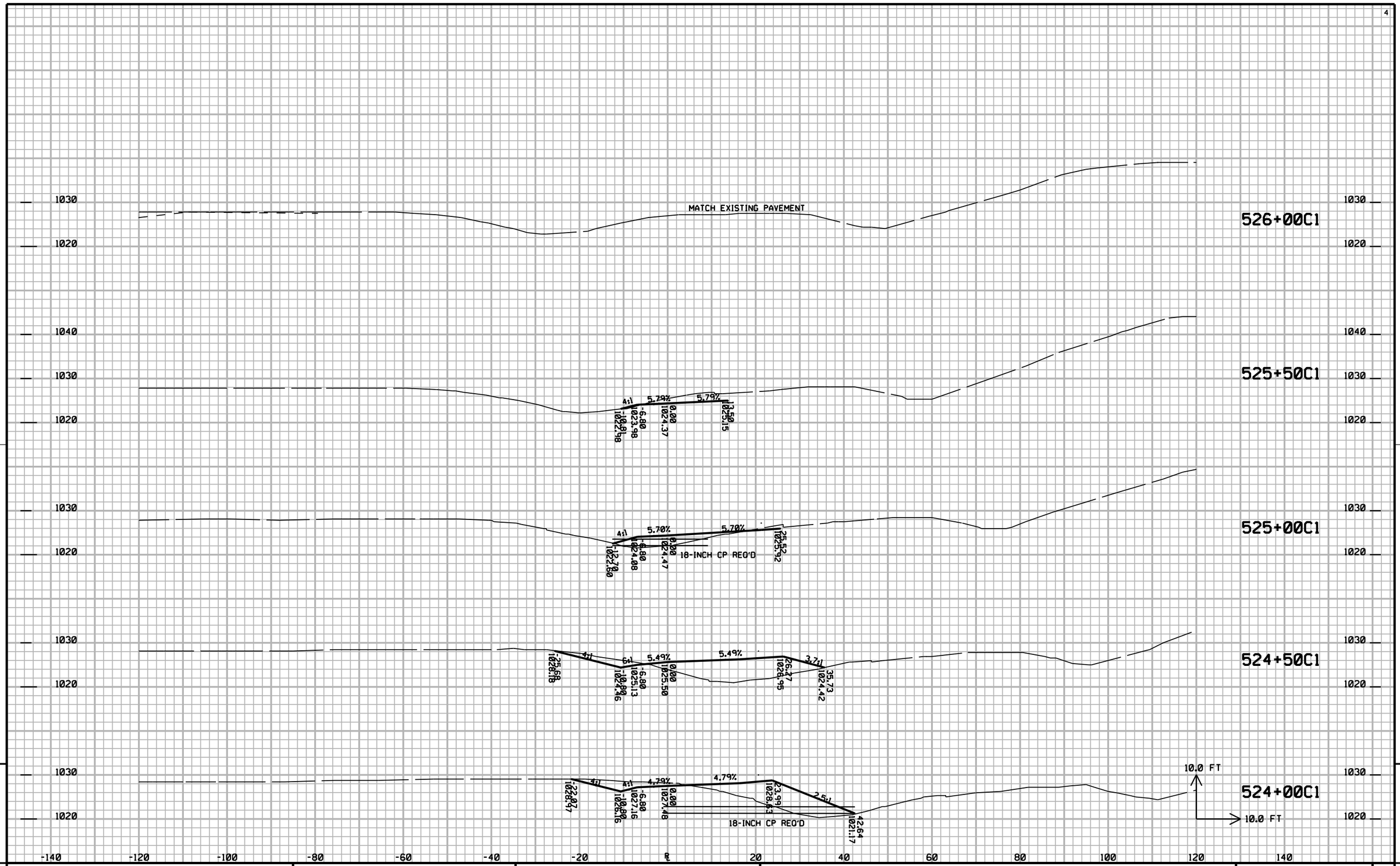
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PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: STAGE 1A:C1-RAMP	SHEET NO: 1091 E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090207_1CXS.DGN PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 21



9

9

PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: STAGE 1A:C1-RAMP	SHEET NO: 1092 E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090207_1CXS.DGN PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 21

485+50 D1

485+00 D1

484+67.80 D1

EXISTING GROUND

FINISHED GRADE

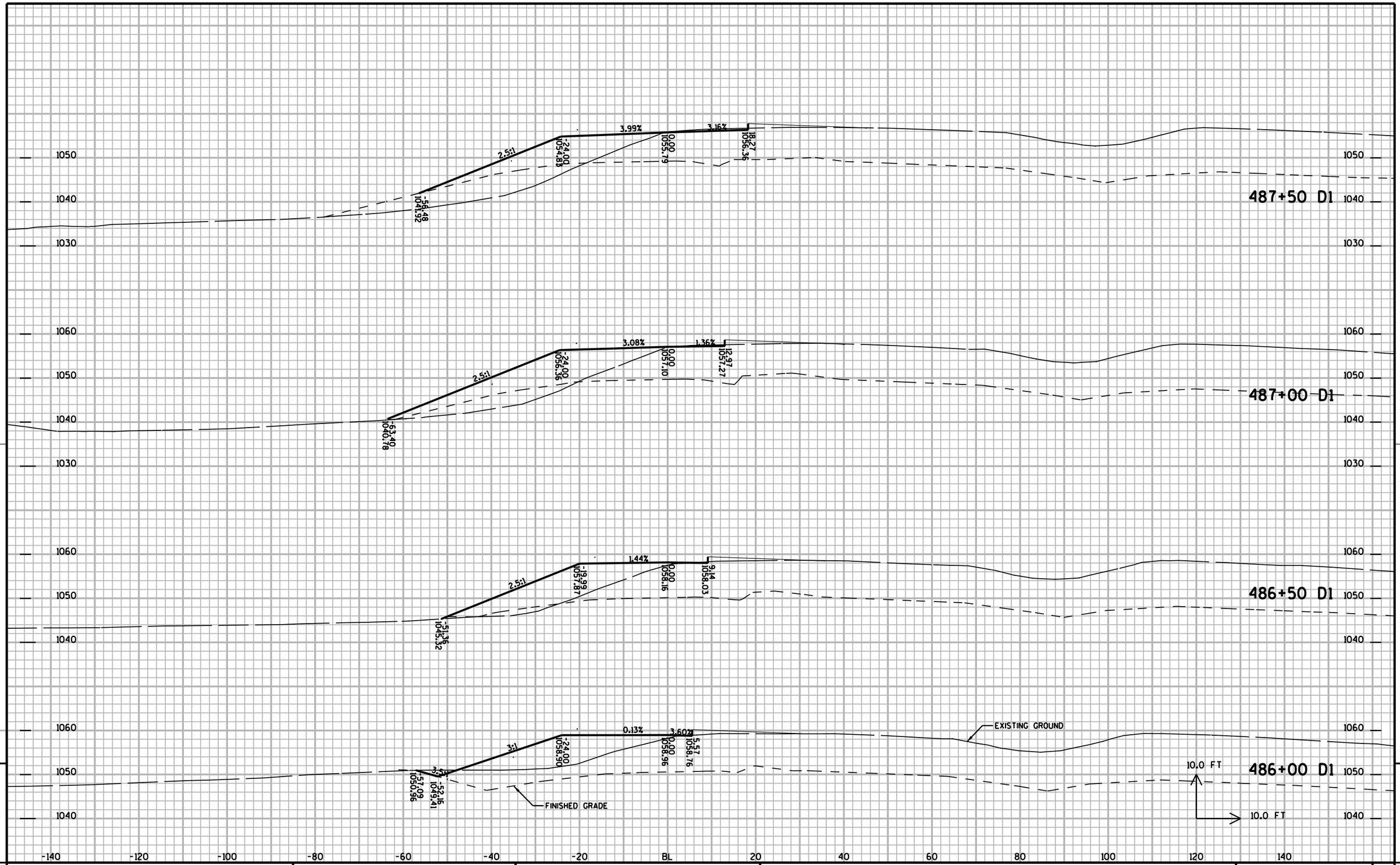
10.0 FT

10.0 FT

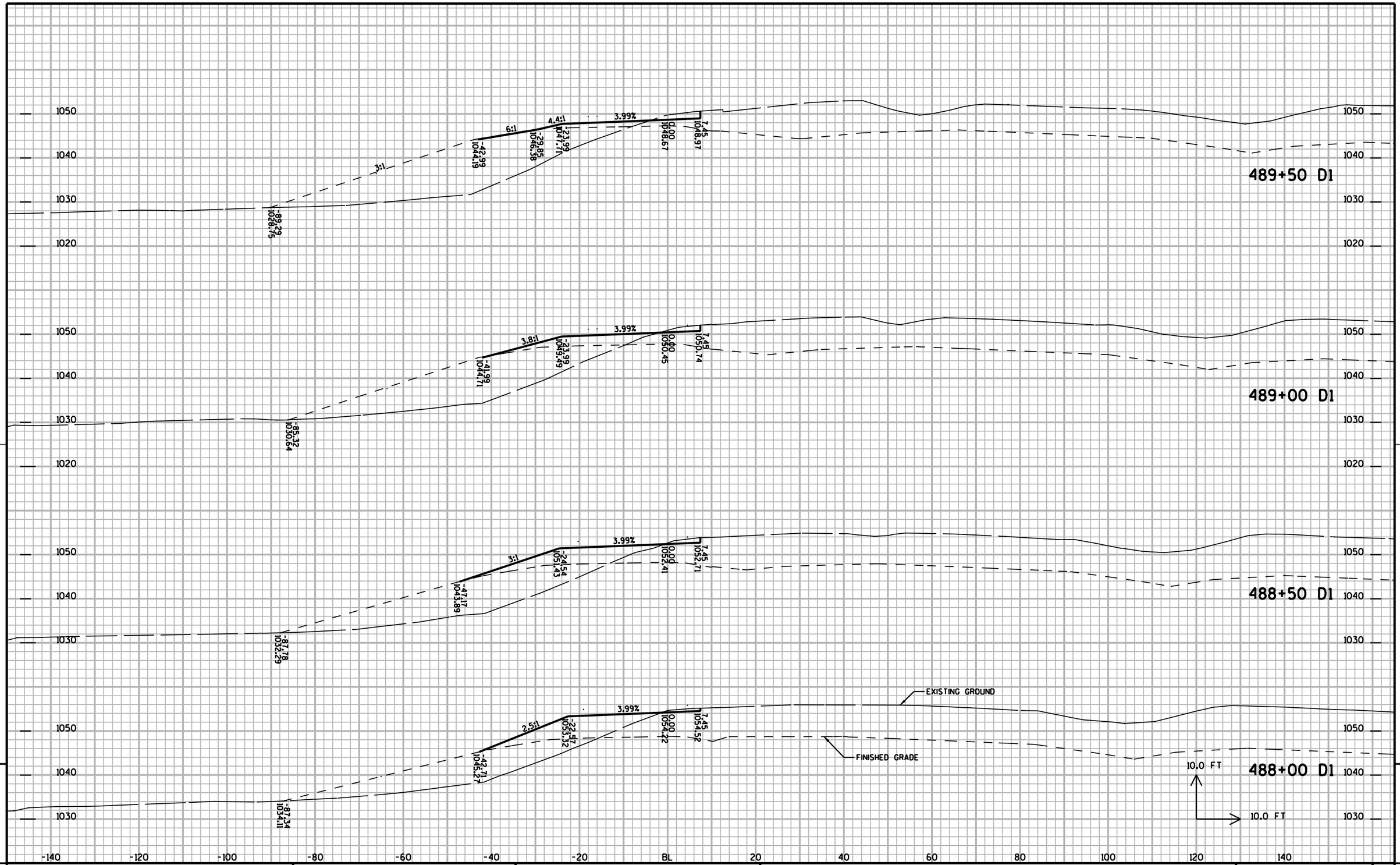
PROJECT NUMBER: 1020-07-74	HWY: IH 94	COUNTY: ST CROIX	CROSS SECTIONS: STAGE 1A: D1-RAMP	SHEET NO: 1093 E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090208_1DXS.DGN PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 21



PROJECT NUMBER: 1020-07-74	HWY: IH 94	COUNTY: ST CROIX	CROSS SECTIONS: STAGE 1A: D1-RAMP	SHEET NO: 1094	E

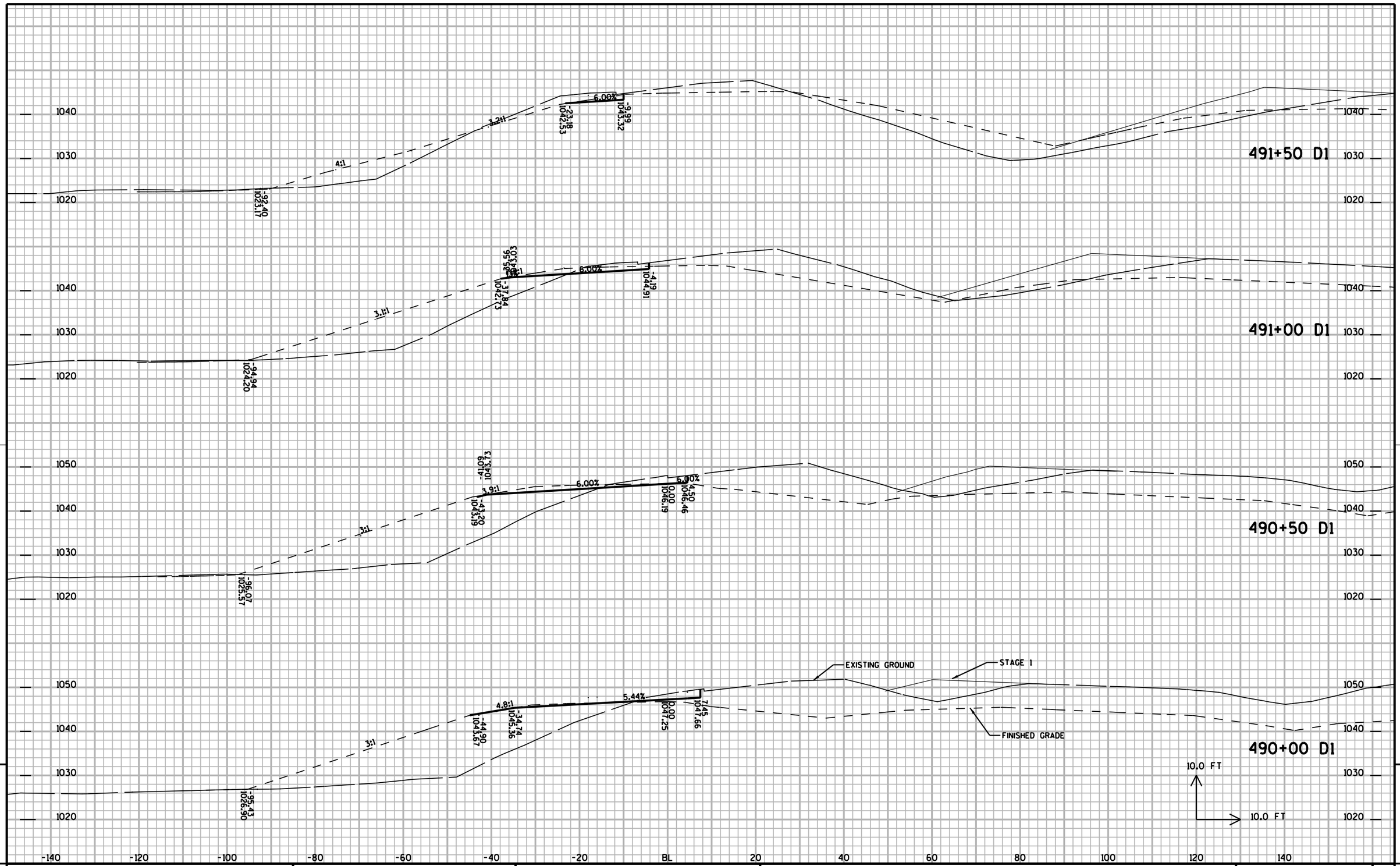


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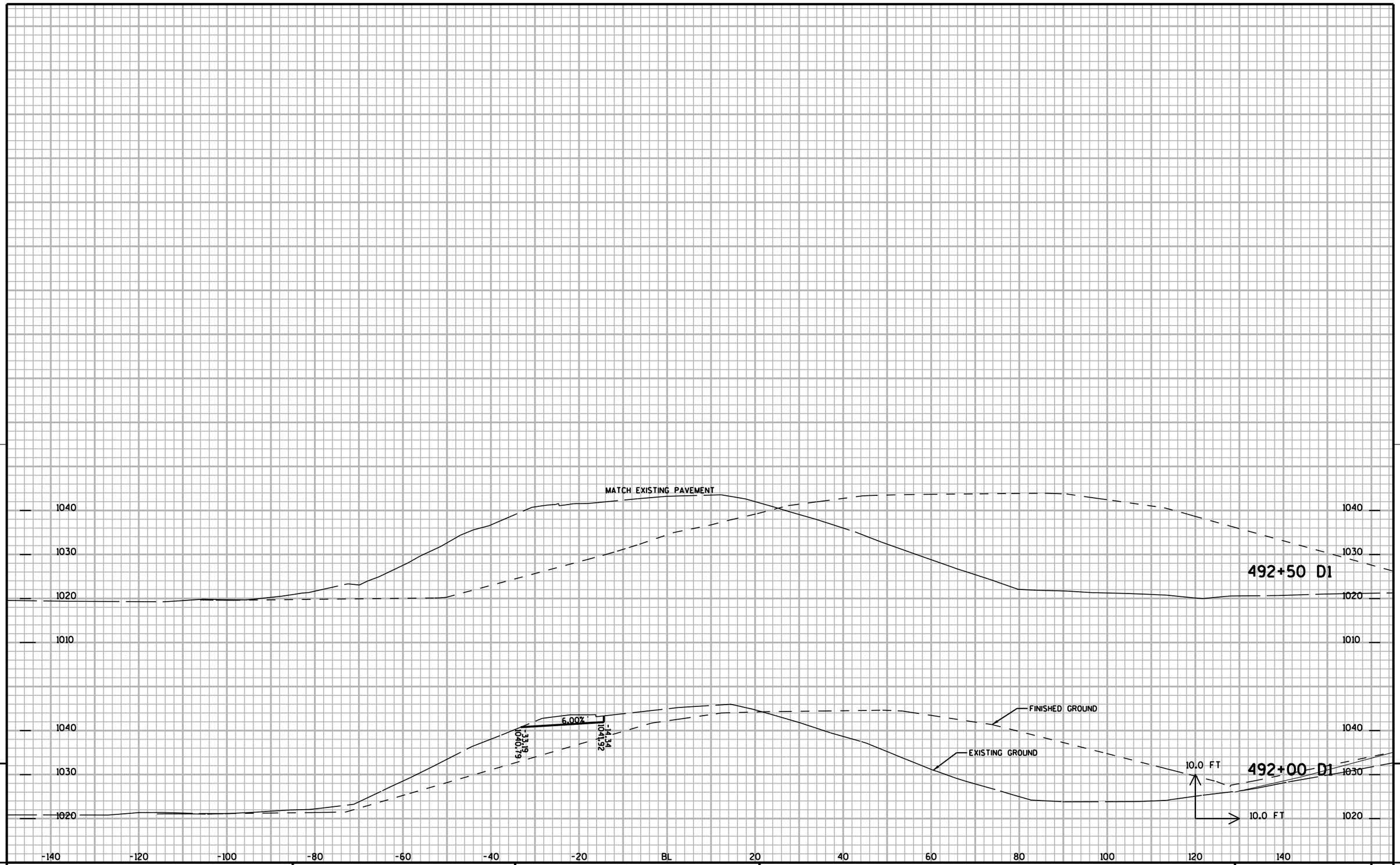
PROJECT NUMBER: 1020-07-74	HWY: IH 94	COUNTY: ST CROIX	CROSS SECTIONS: STAGE 1A: D1-RAMP	SHEET NO: 1095	E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090208_1DXS.DGN PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 21



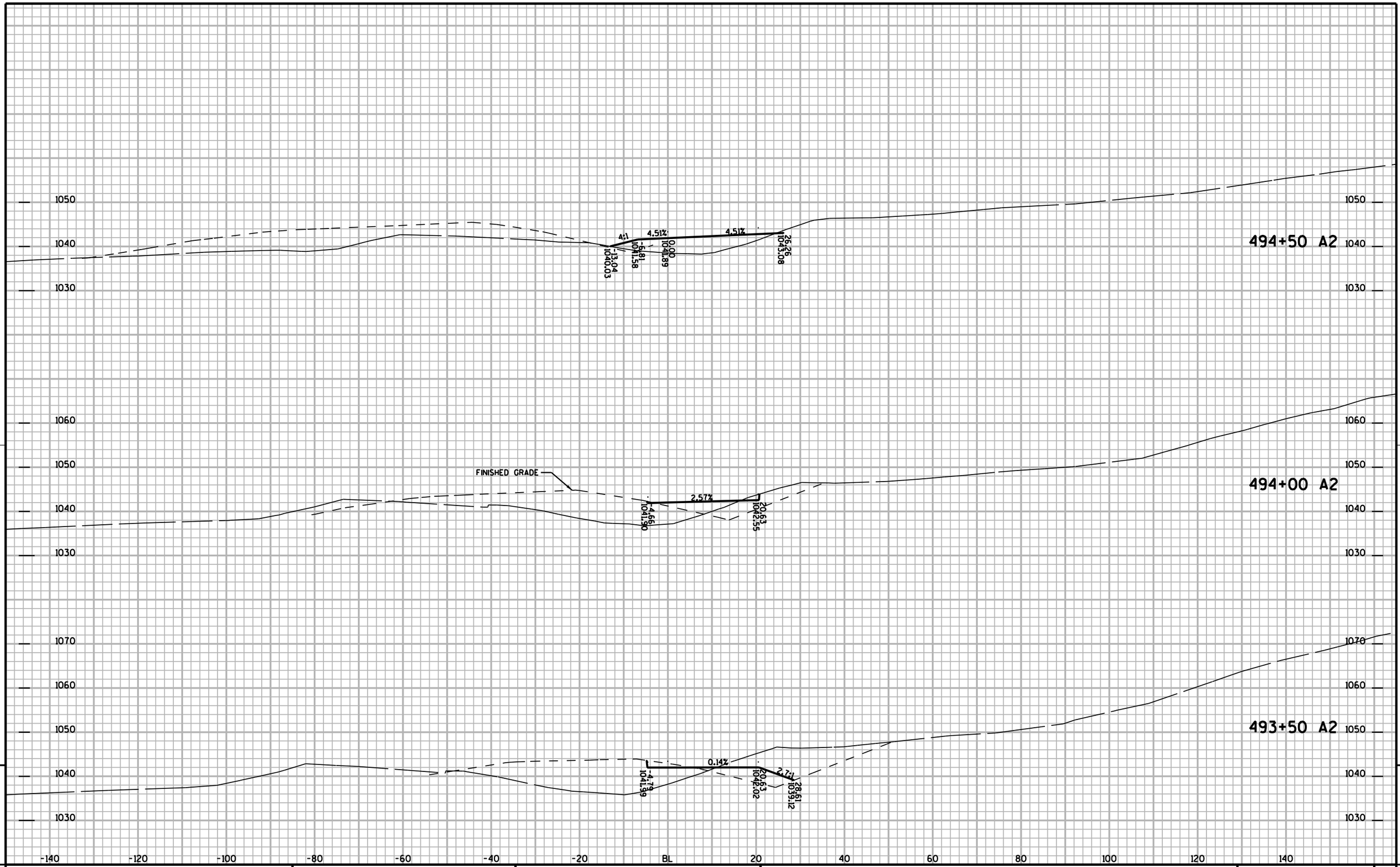
PROJECT NUMBER: 1020-07-74	HWY: IH 94	COUNTY: ST CROIX	CROSS SECTIONS: STAGE 1A: D1-RAMP	SHEET NO: 1096 E



PROJECT NUMBER: 1020-07-74	HWY: IH 94	COUNTY: ST CROIX	CROSS SECTIONS: STAGE 1A: D1-RAMP	SHEET NO: 1097	E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090208_1DXS.DGN PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 21

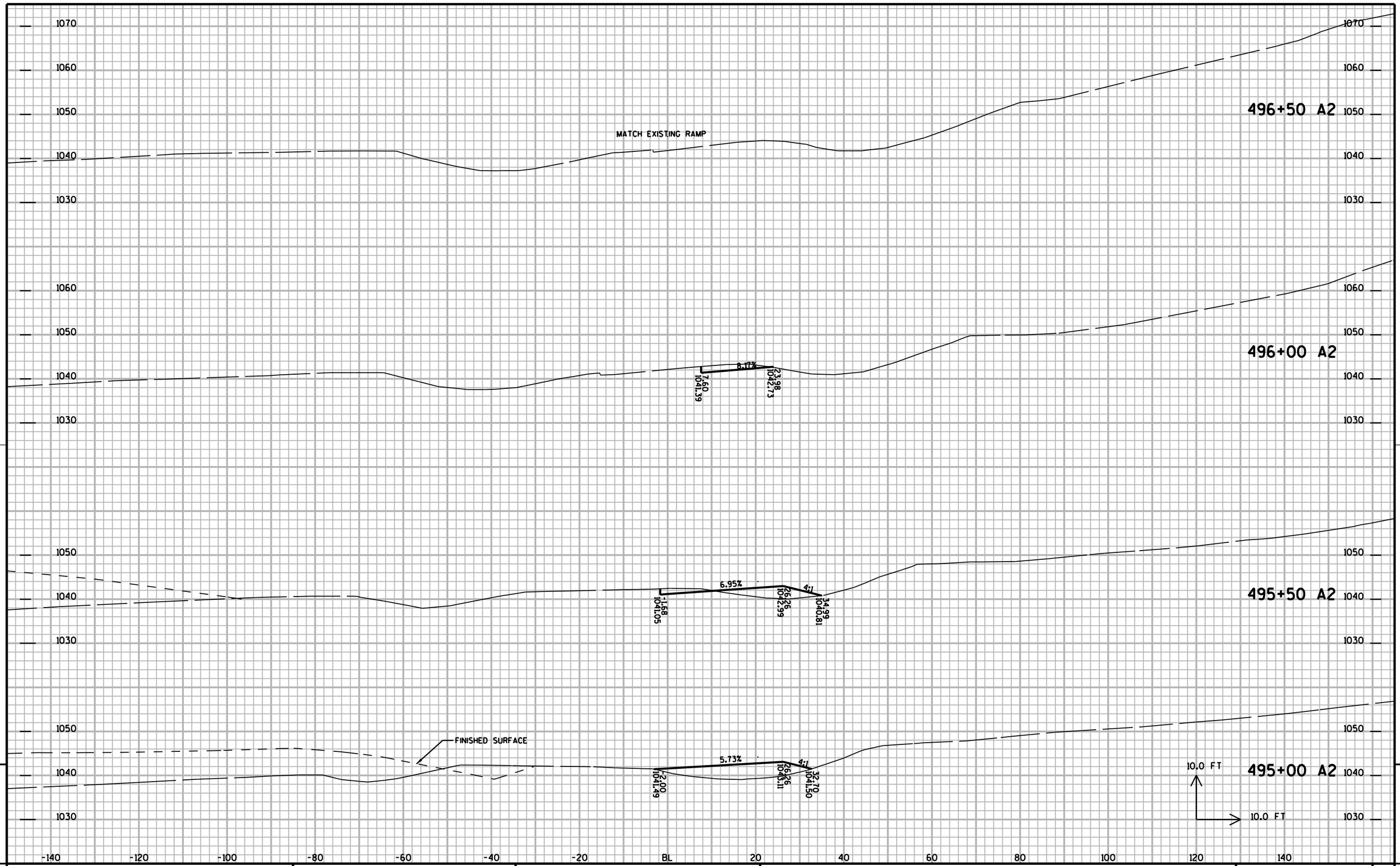


PROJECT NUMBER: 1020-07-74	HWY: IH 94	COUNTY: ST CROIX	CROSS SECTIONS: STAGE 2A: A2-RAMP	SHEET NO: 1098	E

9

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090209_2AXS.DGN PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 21



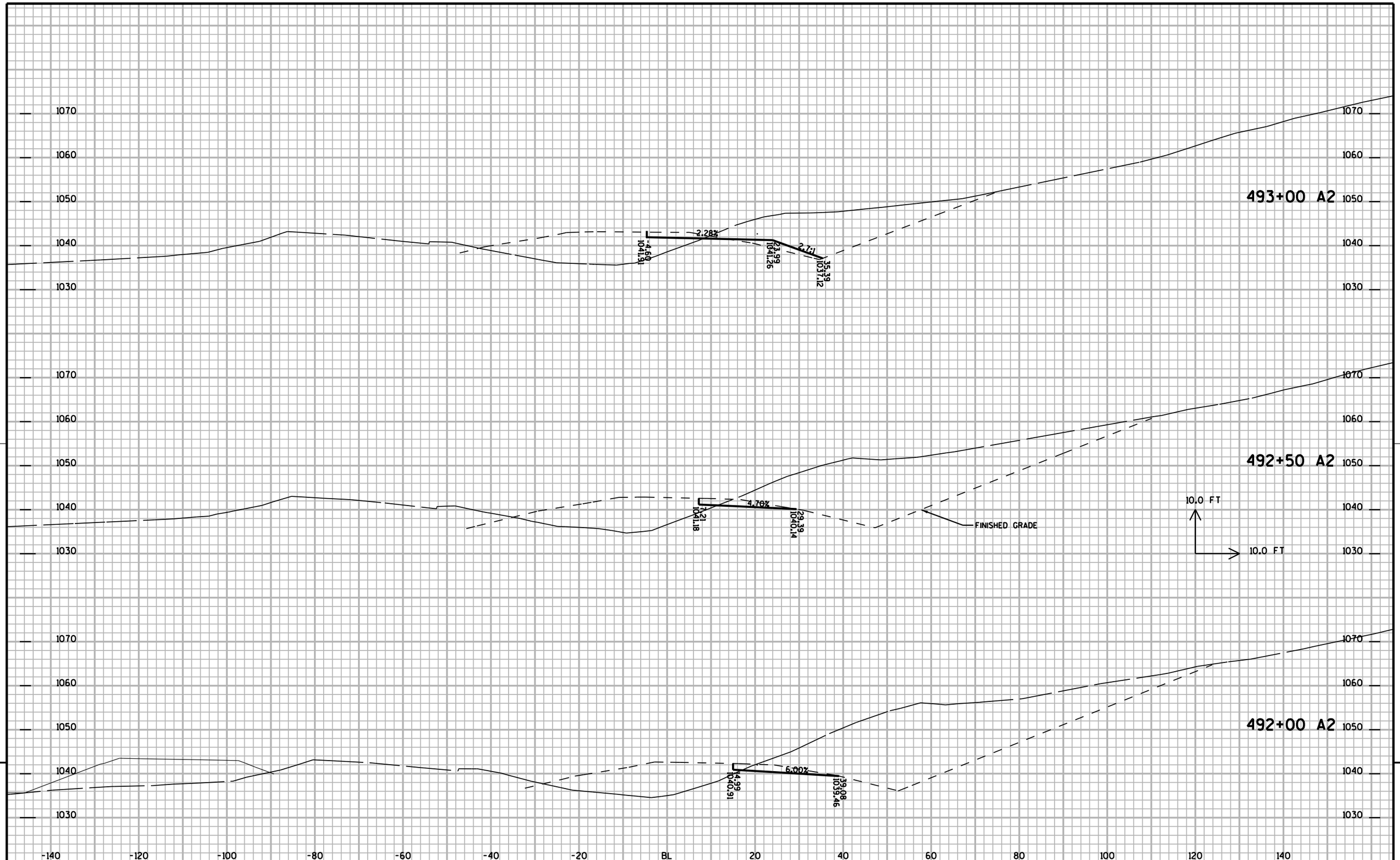
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PROJECT NUMBER: 1020-07-74	HWY: IH 94	COUNTY: ST CROIX	CROSS SECTIONS: STAGE 2A: A2-RAMP	SHEET NO: 1099	E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090209_2AXS.DGN PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 21



PROJECT NUMBER: 1020-07-74	HWY: IH 94	COUNTY: ST CROIX	CROSS SECTIONS: STAGE 2A: A2-RAMP	SHEET NO: 1100	E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090209_2AXS.DGN PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 21

B1-RAMP

1020
1010

18.64
1020.63
3:1
5.40
1016.55
2:1
-5.40
1016.55
-5.40
1017.55
0.80
1018.18
5.83%
22.38
1016.87
3:1
28.61
1014.80

506+00 B2

1020
1010

1020
1010

0.00
1019.44
5.83%
22.38
1018.13
3:1
24.63
1017.38

505+58

1020
1010

1020
1010

0.00
1019.84
5.83%
22.39
1018.53
3:1
24.09
1017.96

505+50 B2

1020
1010

FINISHED GRADE

1030
1020
1010

6.87
1021.79
5.83%
28.12
1020.55

505+00 B2

1030
1020
1010

1030
1020
1010

15.68
1023.51
5.83%
35.37
1022.37

10.0 FT
10.0 FT

504+52 B2

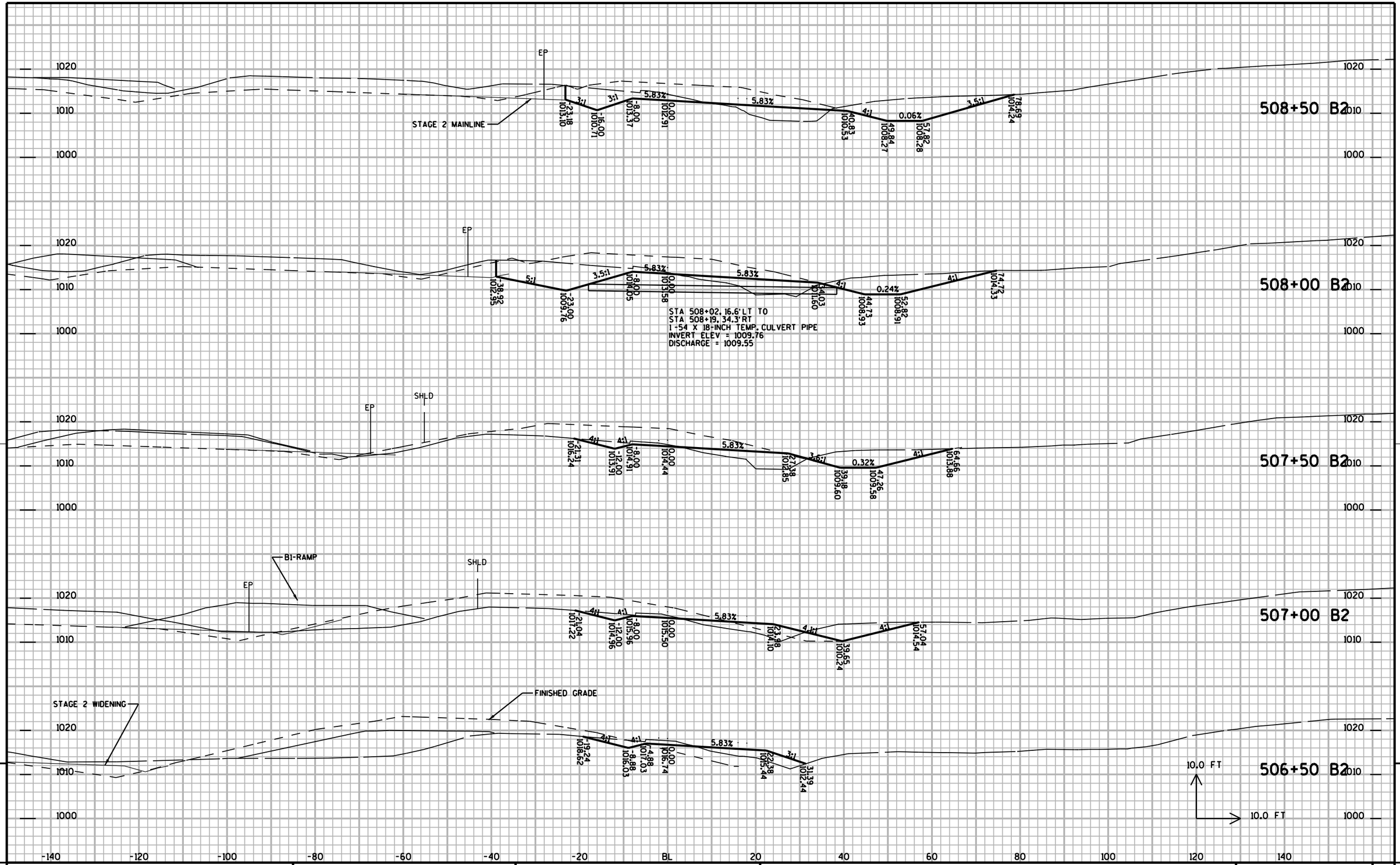
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1020
1010

-140 -120 -100 -80 -60 -40 -20 BL 20 40 60 80 100 120 140

9

9

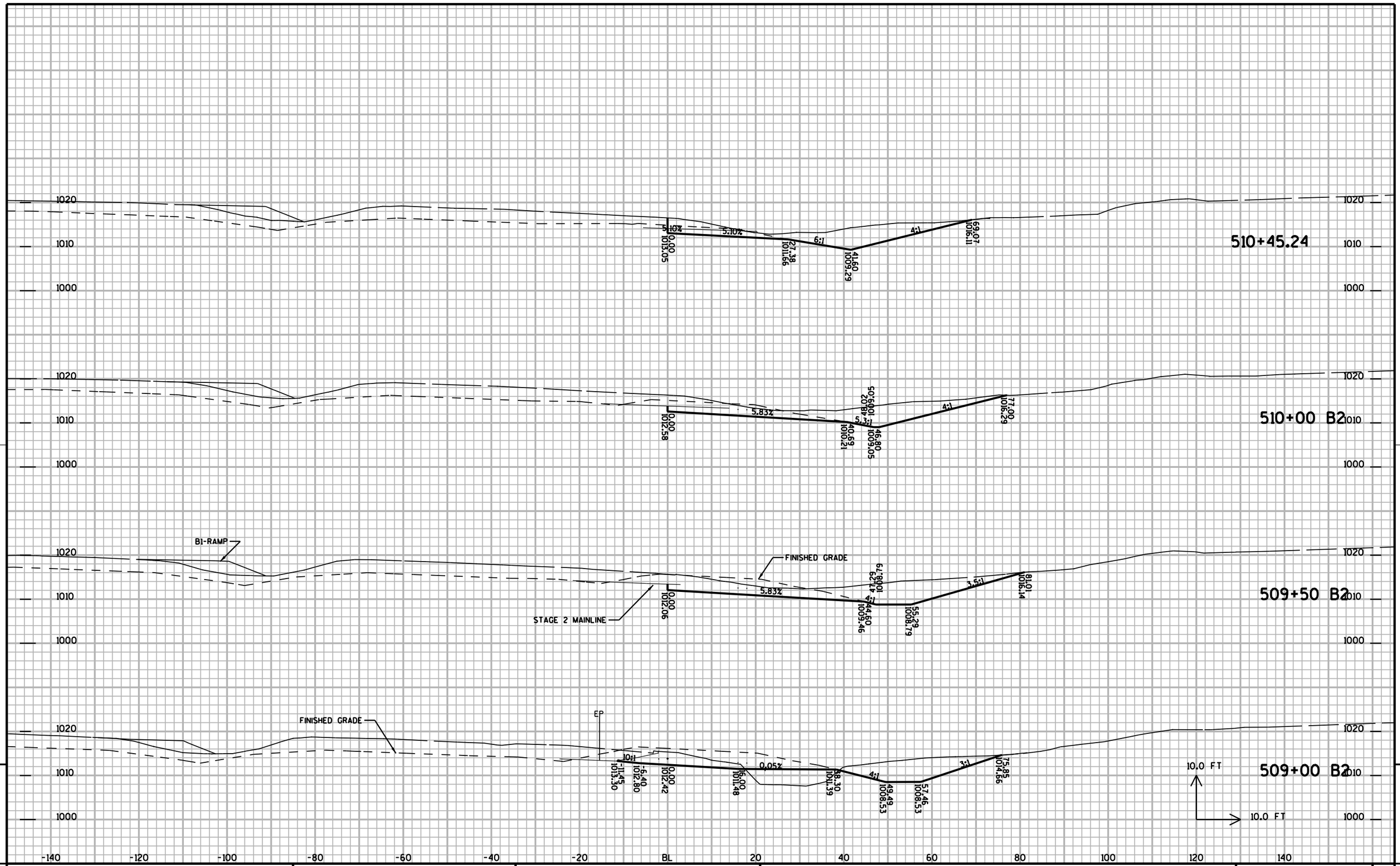
PROJECT NUMBER: 1020-07-74	HWY: IH 94	COUNTY: ST CROIX	CROSS SECTIONS: STAGE 2A: B2-RAMP	SHEET NO: 1101	E



PROJECT NUMBER: 1020-07-74	HWY: IH 94	COUNTY: ST CROIX	CROSS SECTIONS: STAGE 2A: B2-RAMP	SHEET NO: 1102	E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090210_2BXS.DGN PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 21

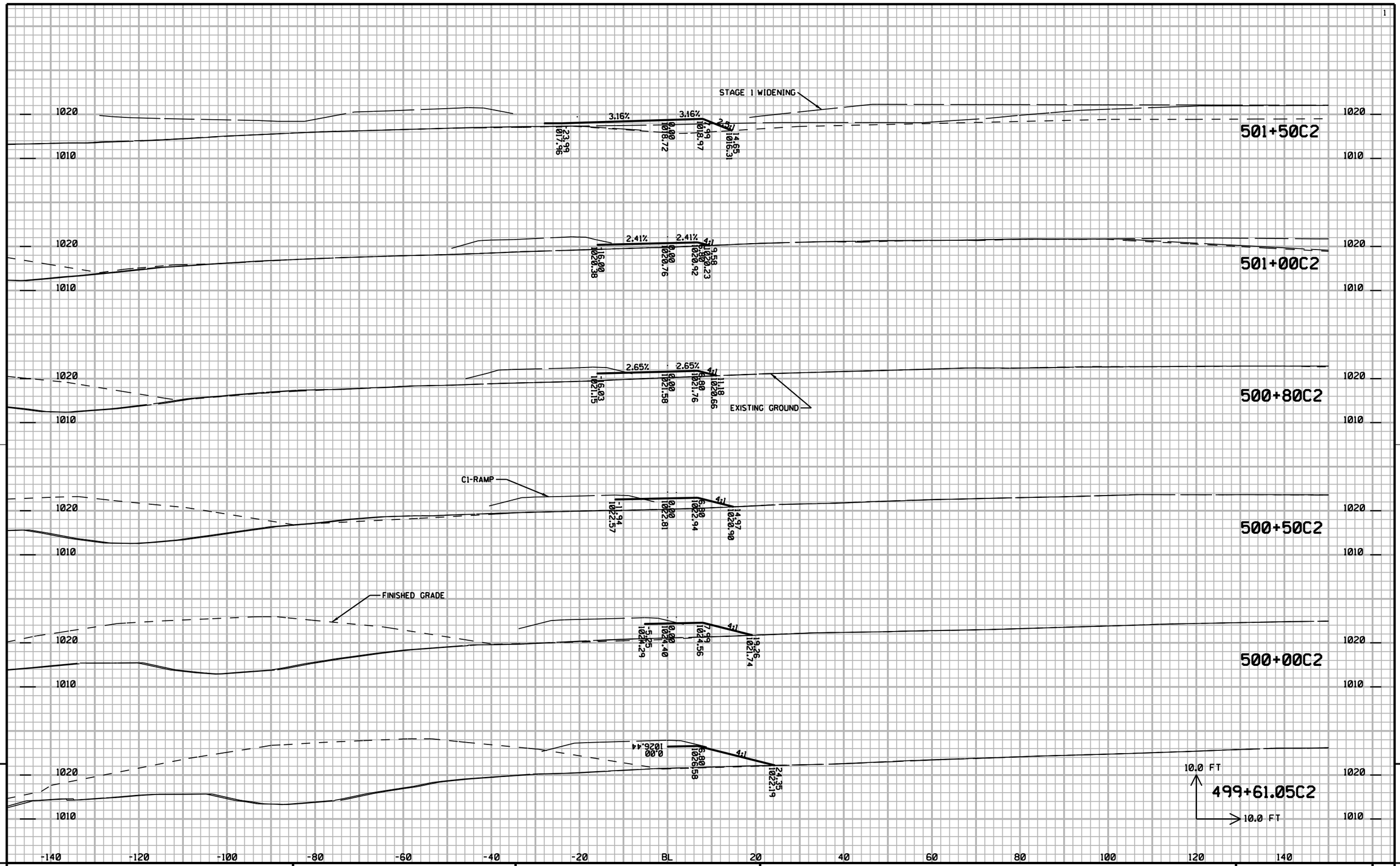


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PROJECT NUMBER: 1020-07-74	HWY: IH 94	COUNTY: ST CROIX	CROSS SECTIONS: STAGE 2A: B2-RAMP	SHEET NO: 1103	E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090210_2BXS.DGN PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 21



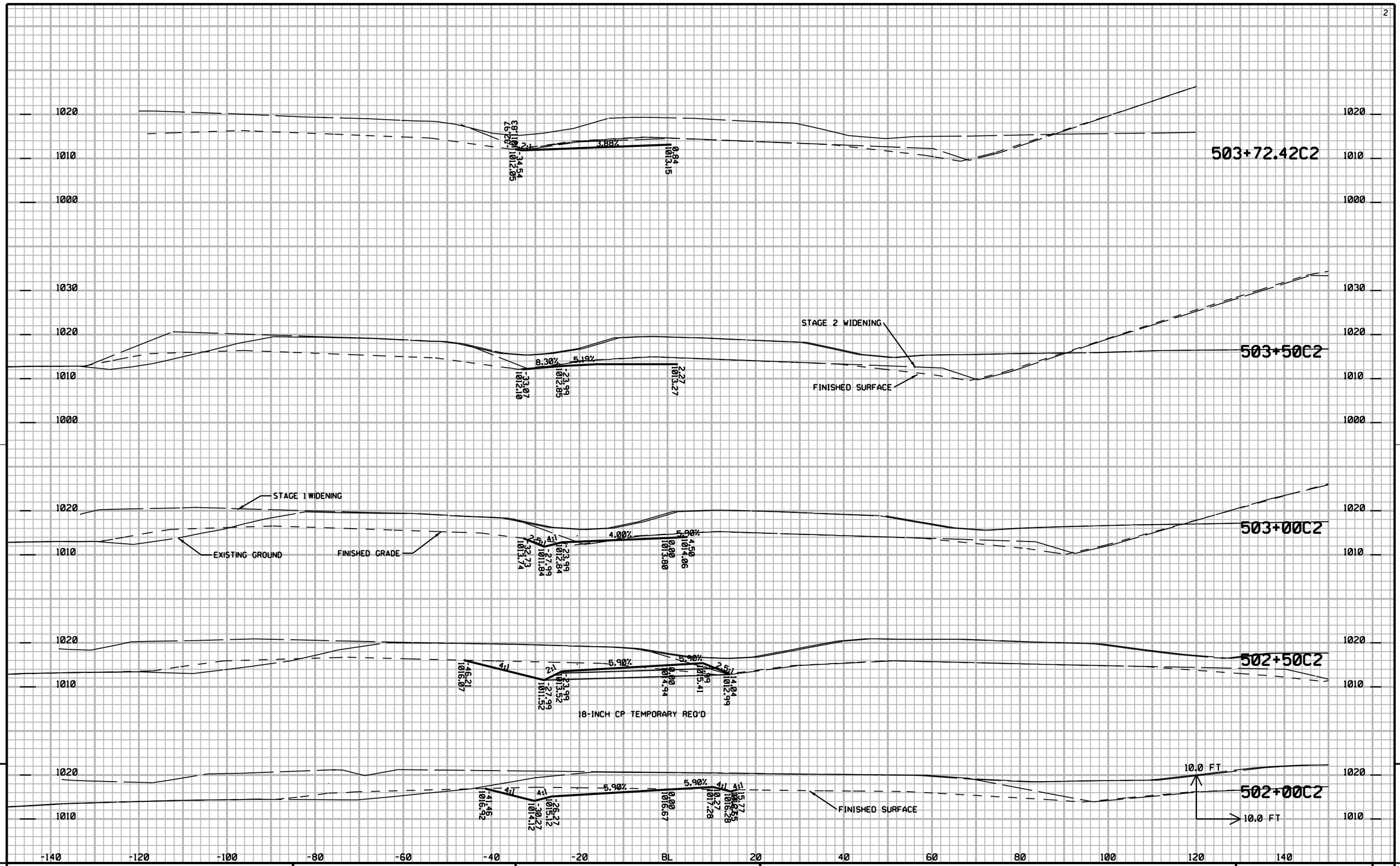
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PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: STAGE 2A: C2-RAMP	SHEET NO: 1104	E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090211_2CXS.DGN PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

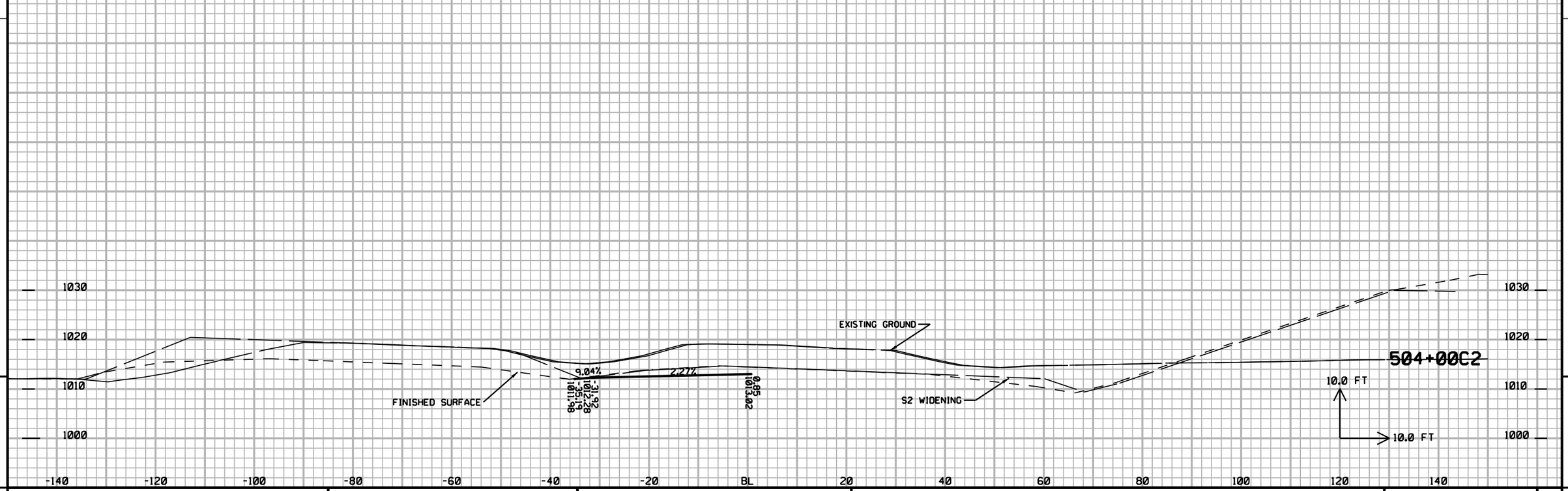
WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: STAGE 2A: C2-RAMP	SHEET NO: 1105 E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090211_2CXS.DGN PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

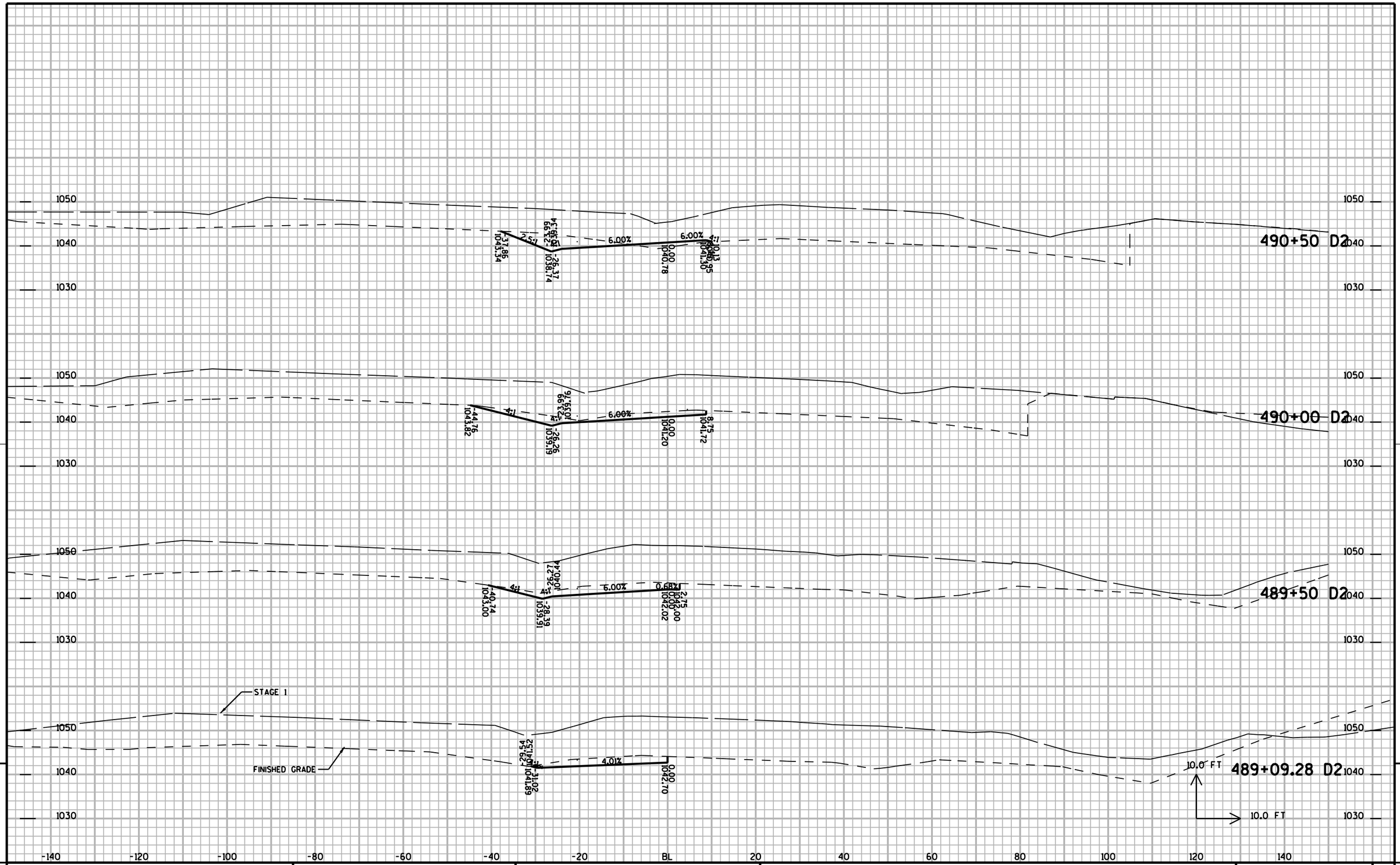
WISDOT/CADDS SHEET 21



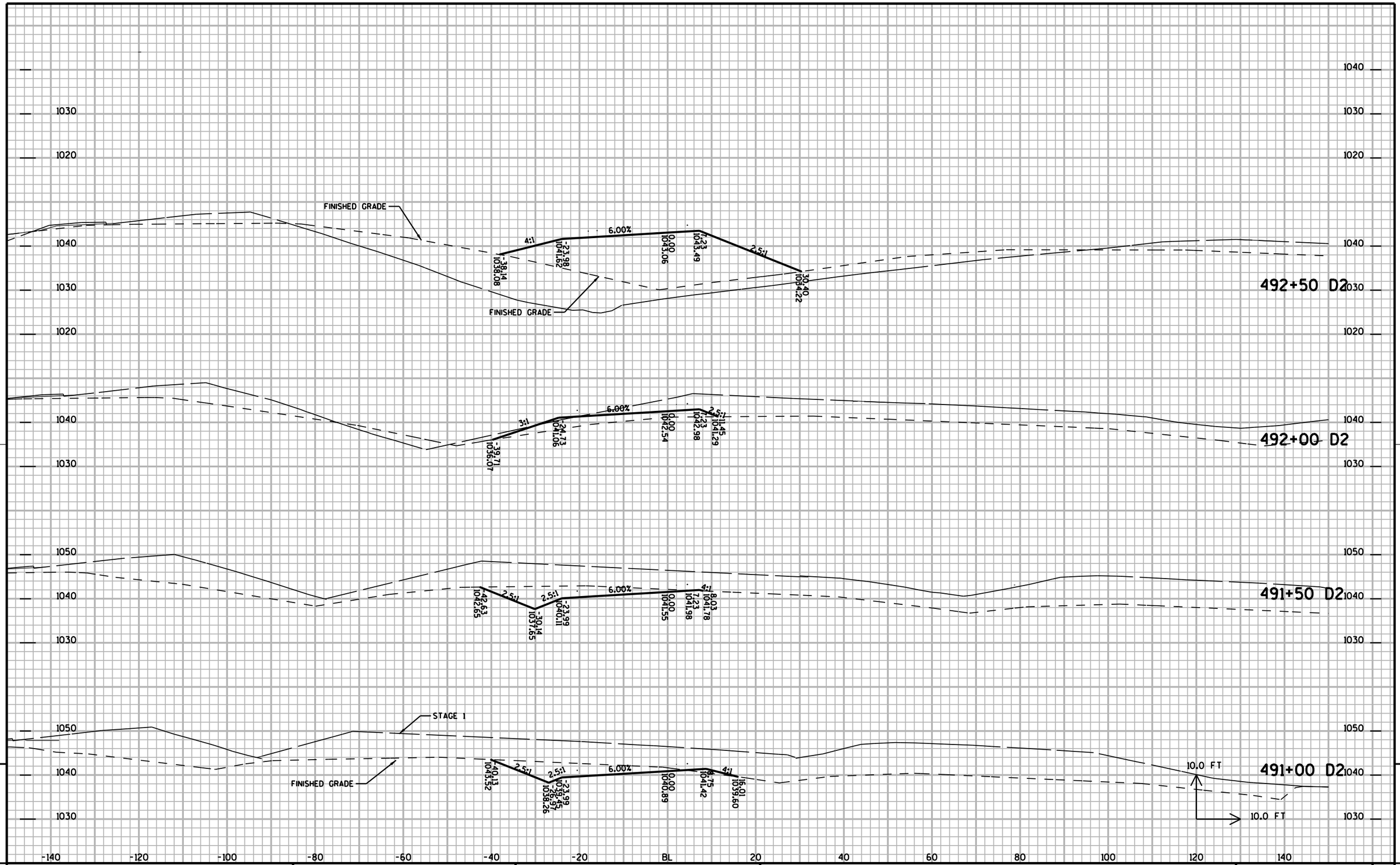
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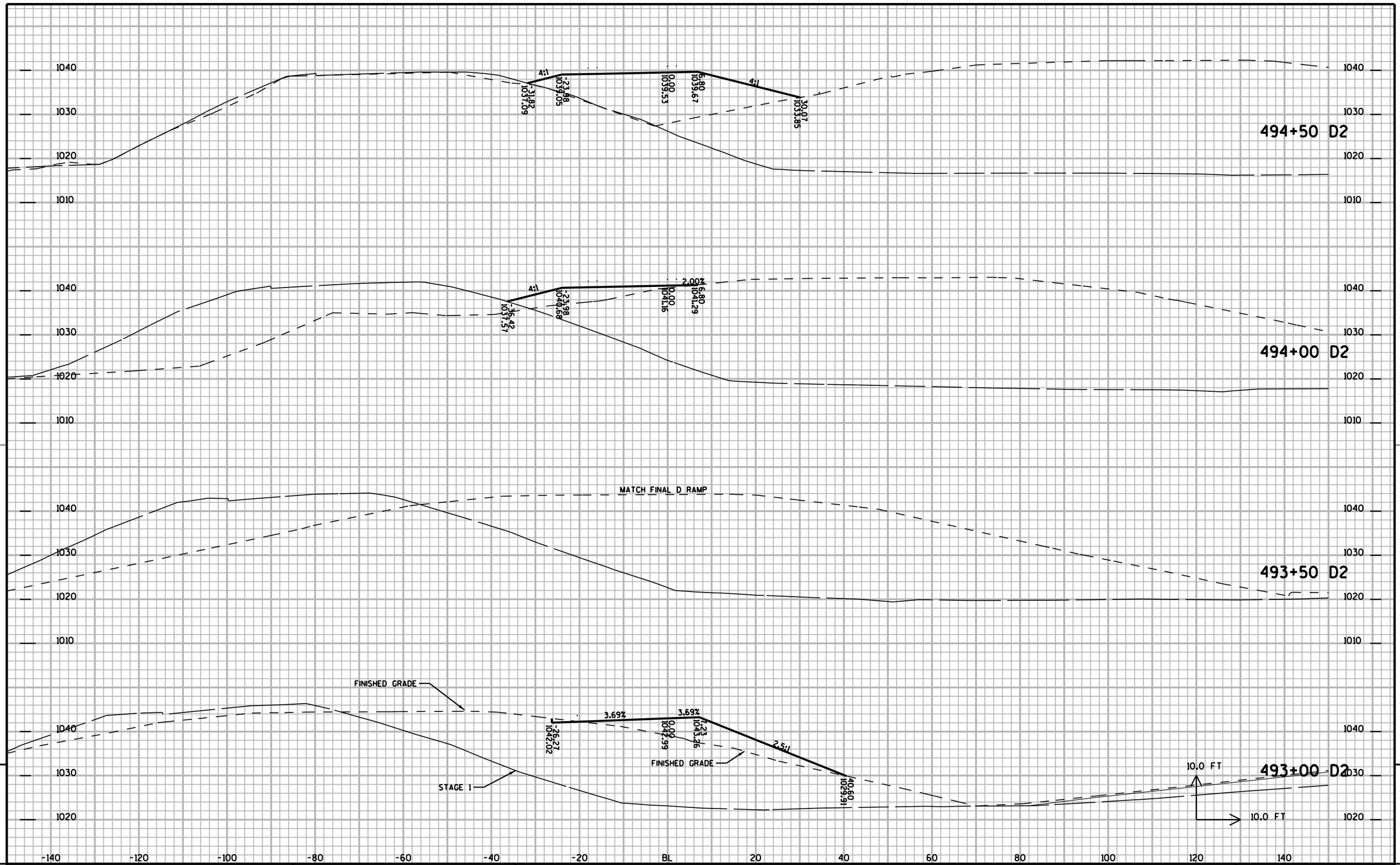
PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: STAGE 2A: C2-RAMP	SHEET NO: 1106	E



PROJECT NUMBER: 1020-07-74	HWY: IH 94	COUNTY: ST CROIX	CROSS SECTIONS: STAGE 2A: D2-RAMP	SHEET NO: 1107	E



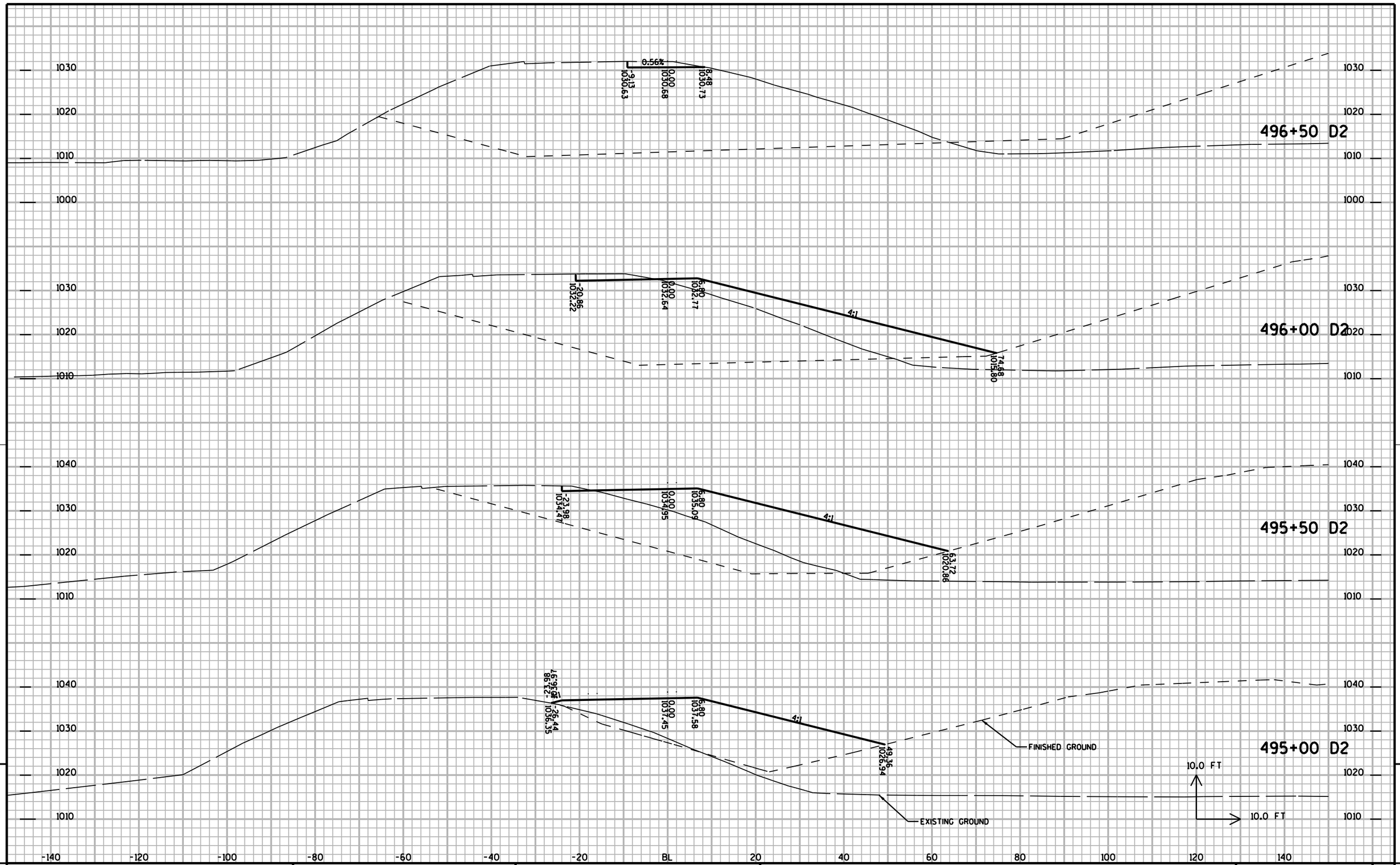
PROJECT NUMBER: 1020-07-74	HWY: IH 94	COUNTY: ST CROIX	CROSS SECTIONS: STAGE 2A: D2-RAMP	SHEET NO: 1108	E



PROJECT NUMBER: 1020-07-74	HWY: IH 94	COUNTY: ST CROIX	CROSS SECTIONS: STAGE 2A: D2-RAMP	SHEET NO: 1109 E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090212_2DXS.DGN PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 21



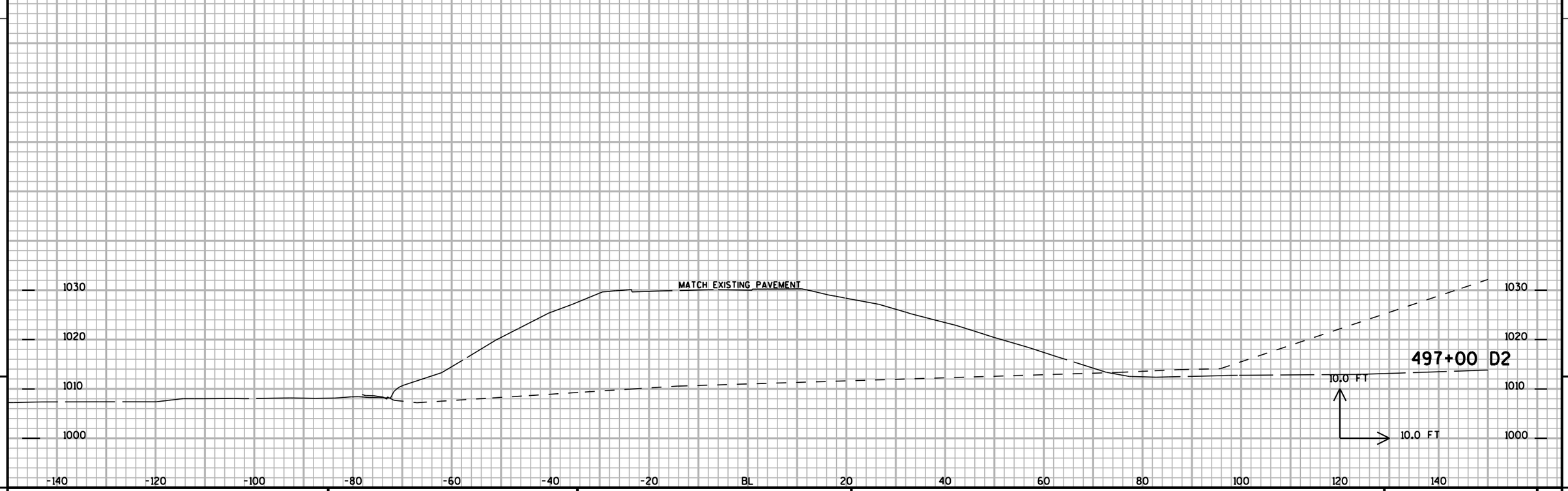
PROJECT NUMBER: 1020-07-74	HWY: IH 94	COUNTY: ST CROIX	CROSS SECTIONS: STAGE 2A: D2-RAMP	SHEET NO: 1110	E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090212_2DXS.DGN PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 21

9

9



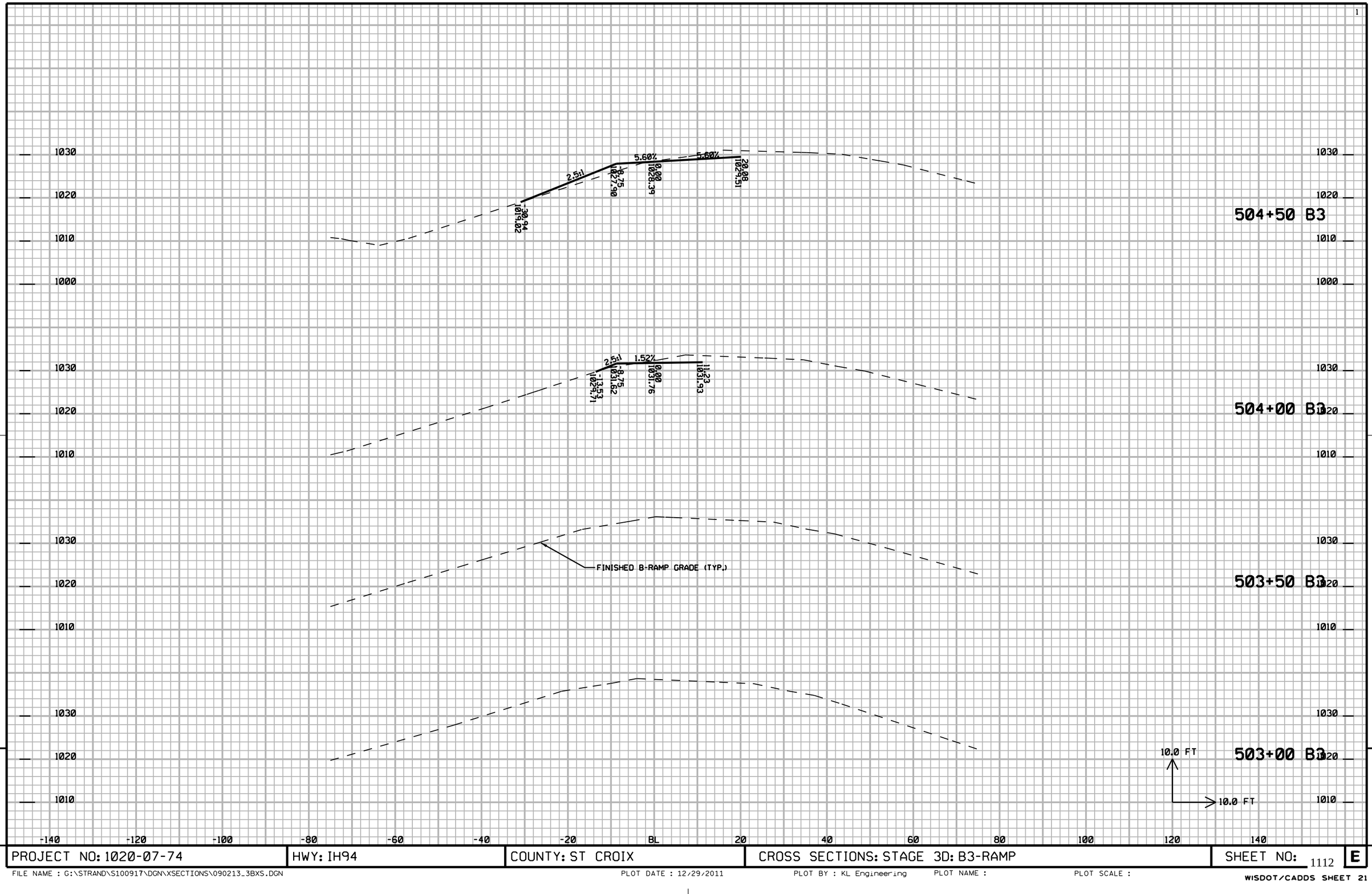
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PROJECT NUMBER: 1020-07-74	HWY: IH 94	COUNTY: ST CROIX	CROSS SECTIONS: STAGE 2A: D2-RAMP	SHEET NO: 1111	E

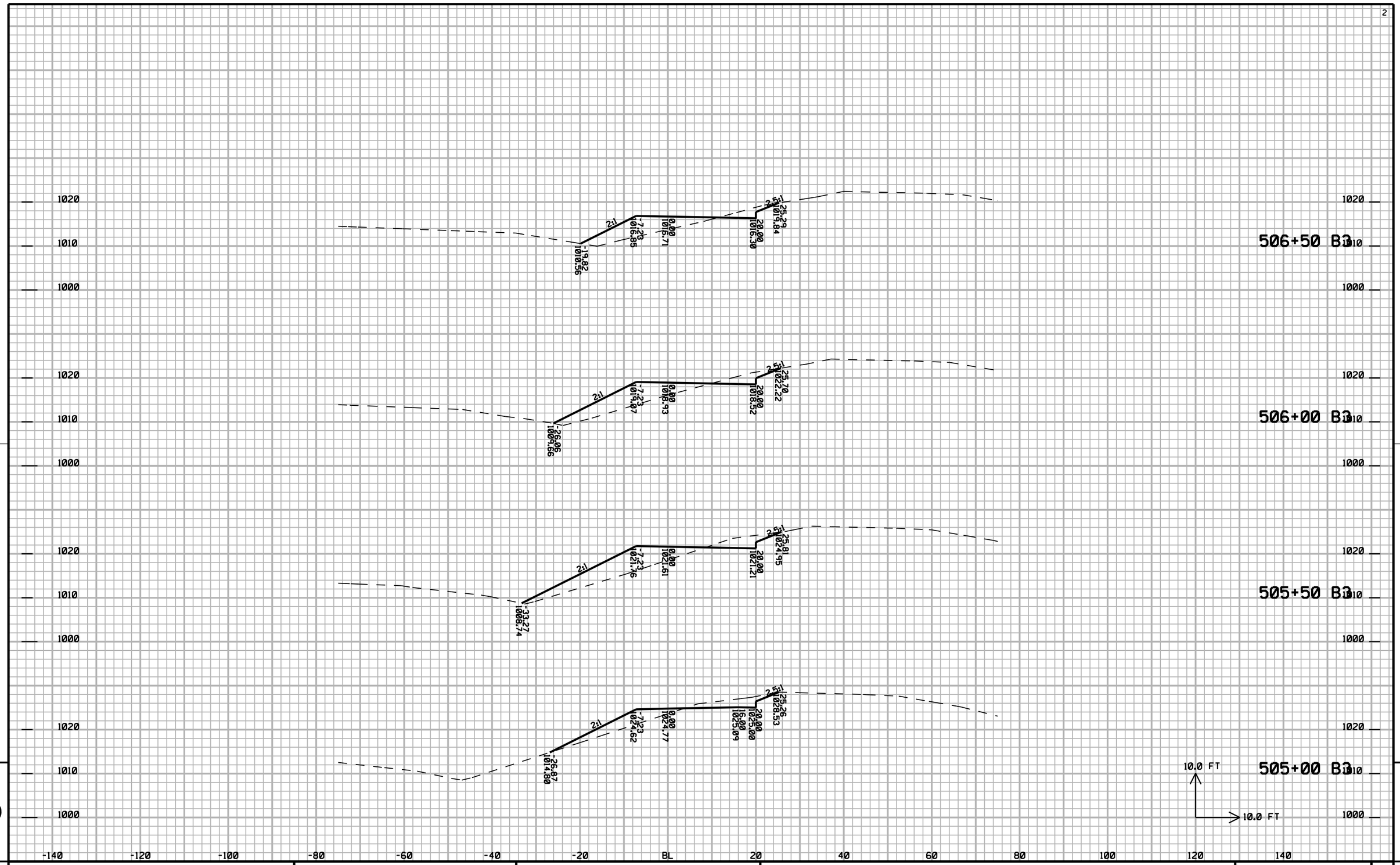
FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090212_2DXS.DGN PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 21



9

PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: STAGE 3D: B3-RAMP	SHEET NO: 1112 E



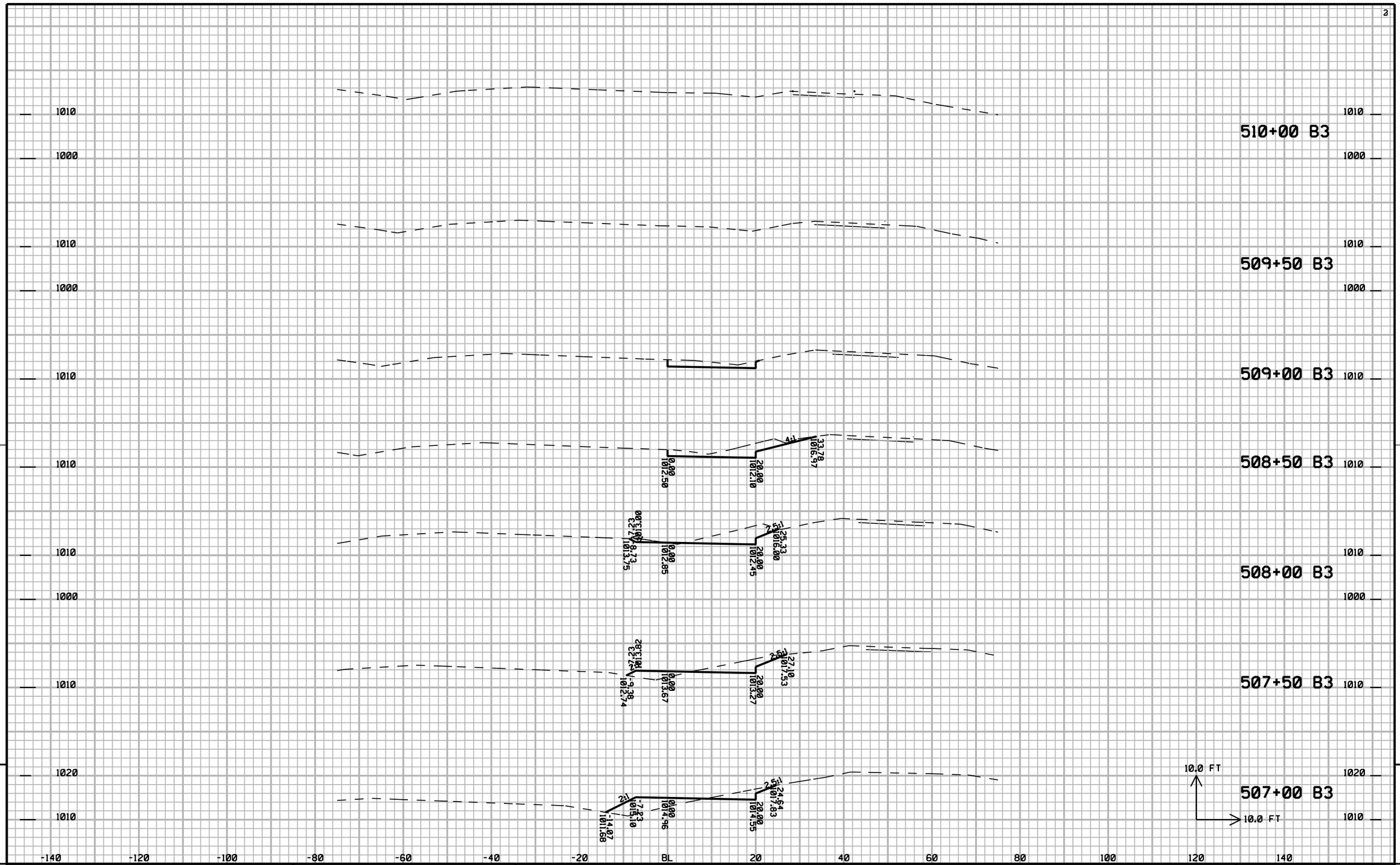
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PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: STAGE 3D: B3-RAMP	SHEET NO: 1113	E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090213_3BXS.DGN PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

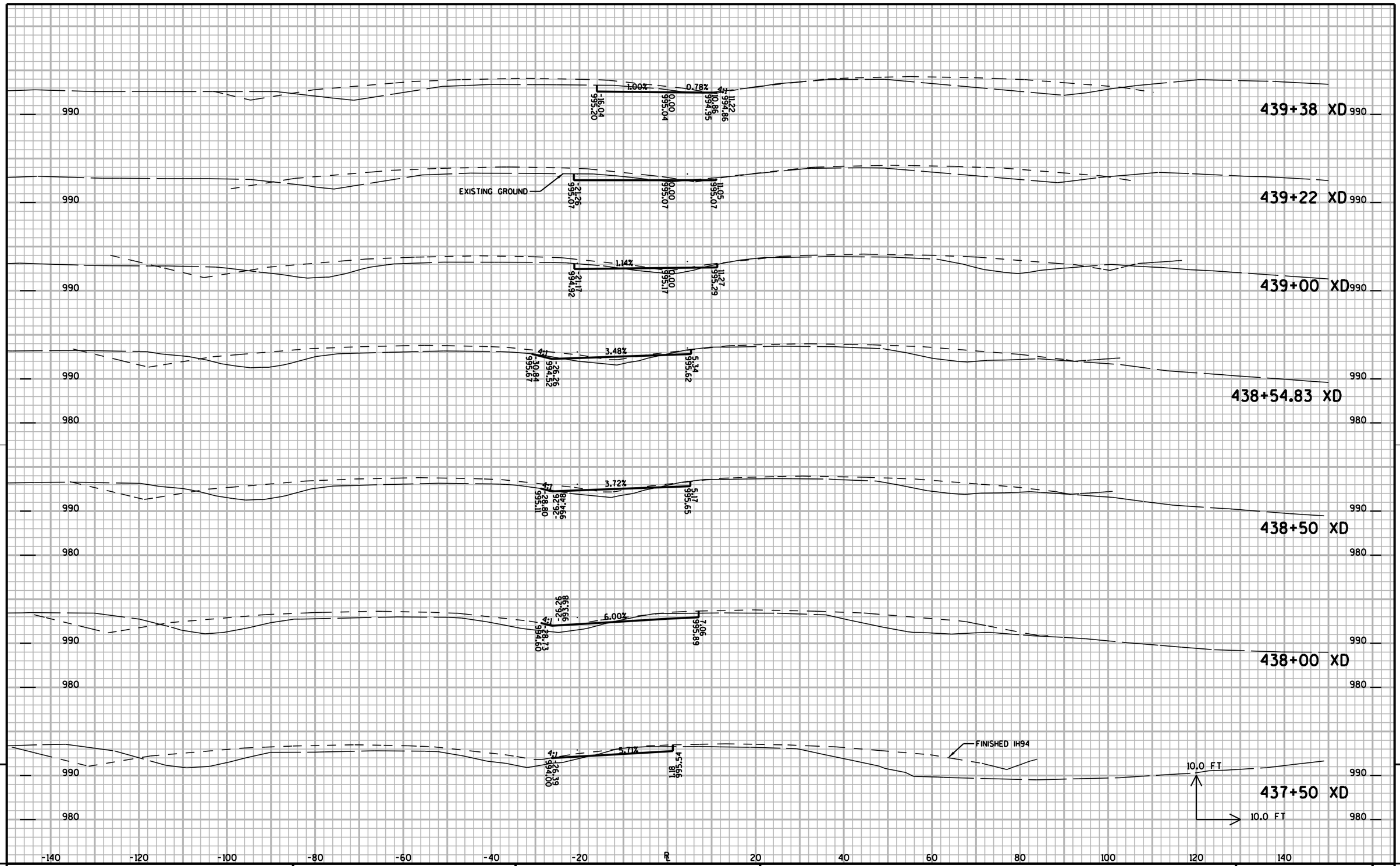
WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: STAGE 3D:B3-RAMP	SHEET NO: 1114	E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090213_3BXS.DGN PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

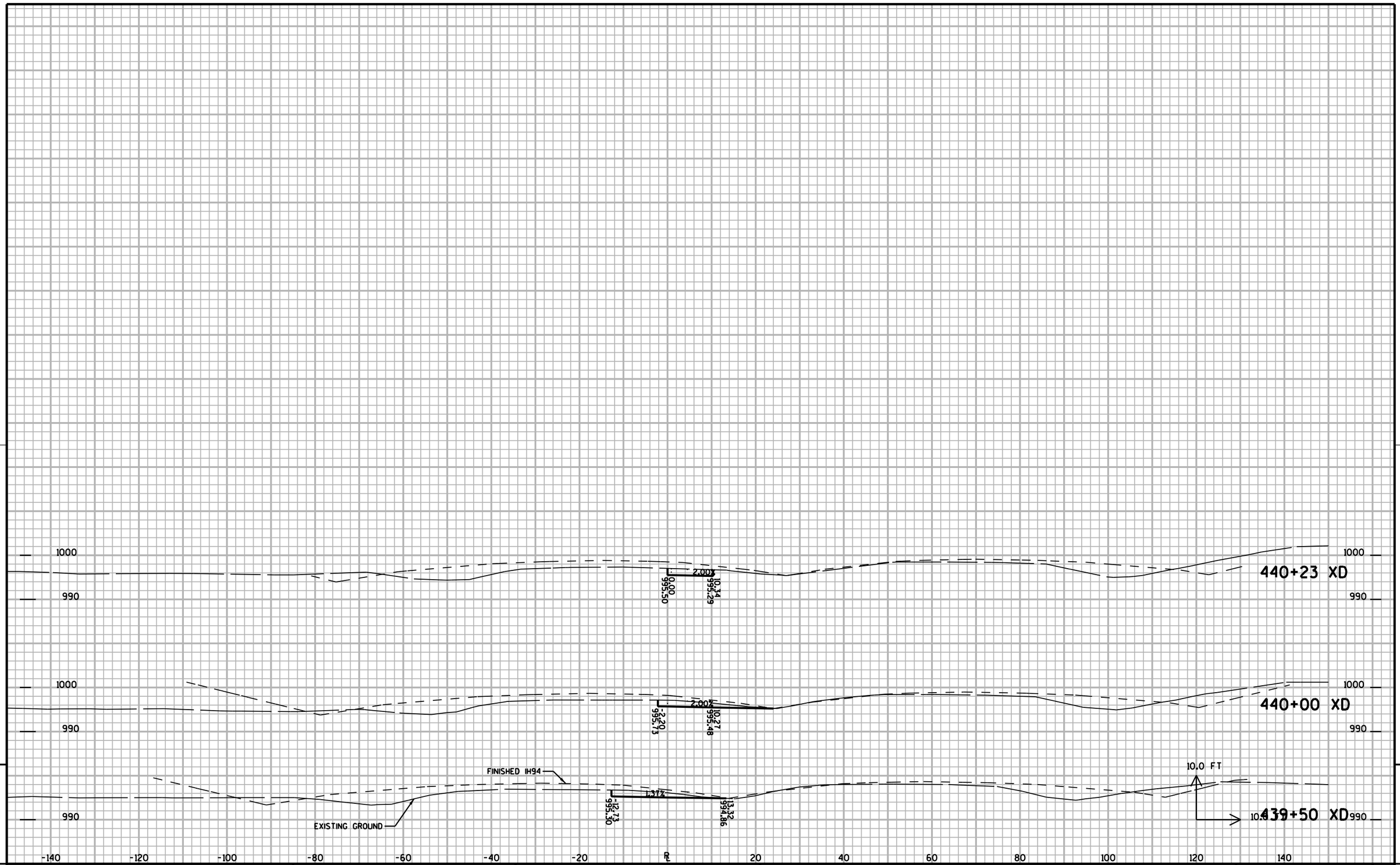
WISDOT/CADDS SHEET 21



PROJECT NUMBER: 1020-07-74	HWY: IH 94	COUNTY: ST CROIX	CROSS SECTIONS: STAGE 2A: XD CROSSOVER	SHEET NO: 1115 E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090214_XD.dgn PLOT DATE : 12/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

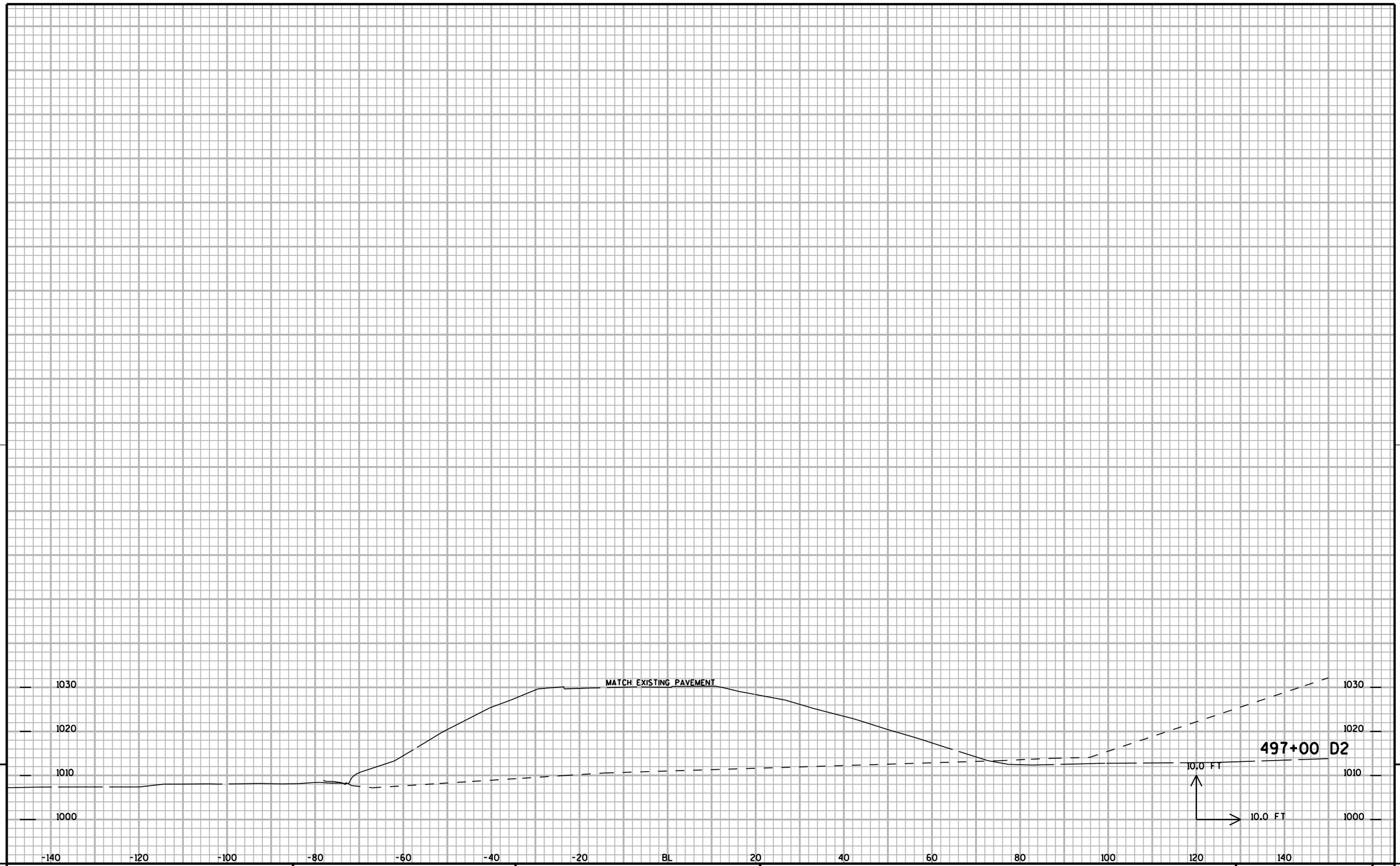
WISDOT/CADDS SHEET 21



9

9

PROJECT NUMBER: 1020-07-74	HWY: IH 94	COUNTY: ST CROIX	CROSS SECTIONS: STAGE 2A: XD CROSSOVER	SHEET NO: 1116	E



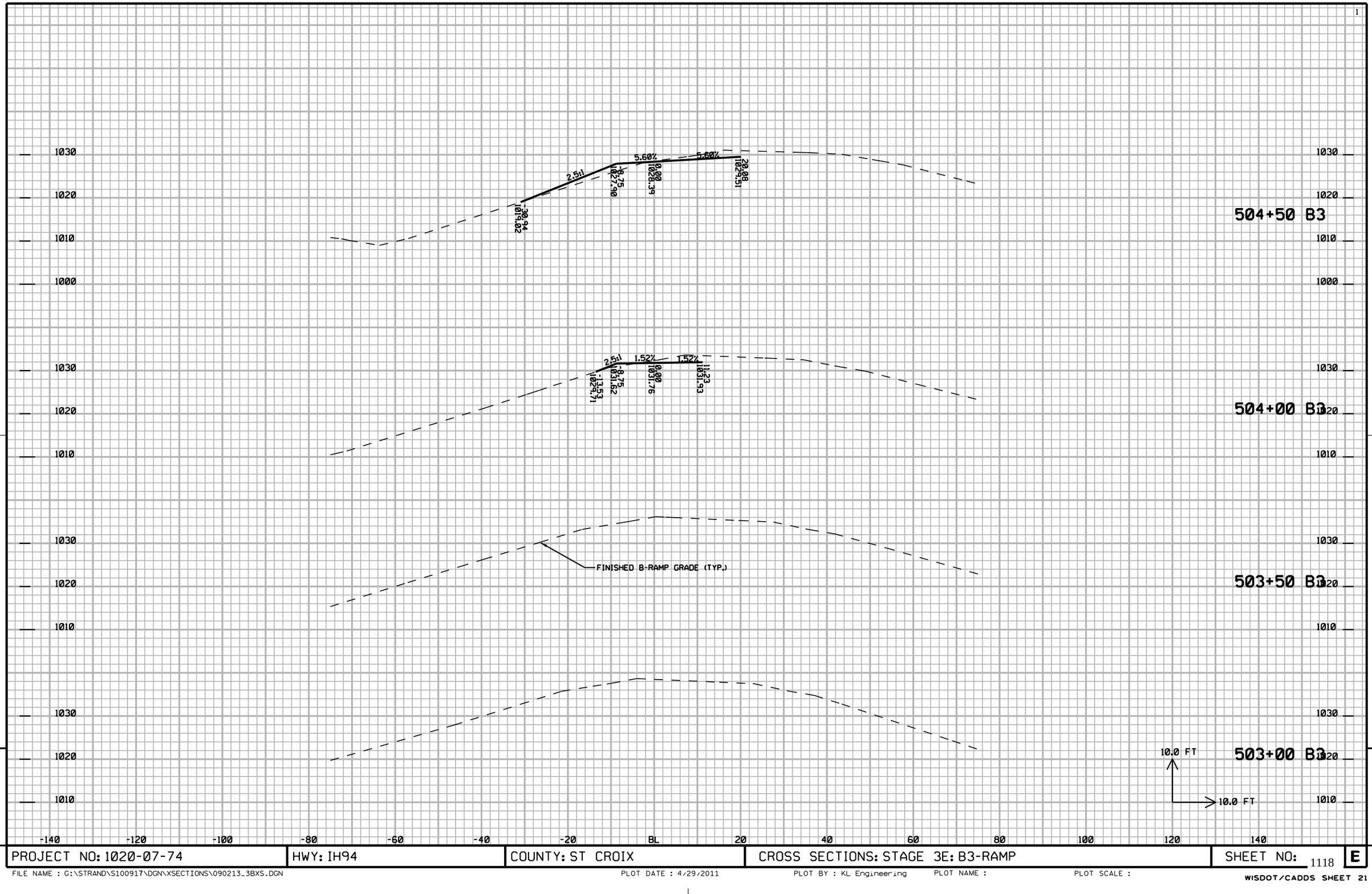
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PROJECT NUMBER: 1020-07-74	HWY: IH 94	COUNTY: ST CROIX	CROSS SECTIONS: STAGE 2A: D2-RAMP	SHEET NO: 1117	E

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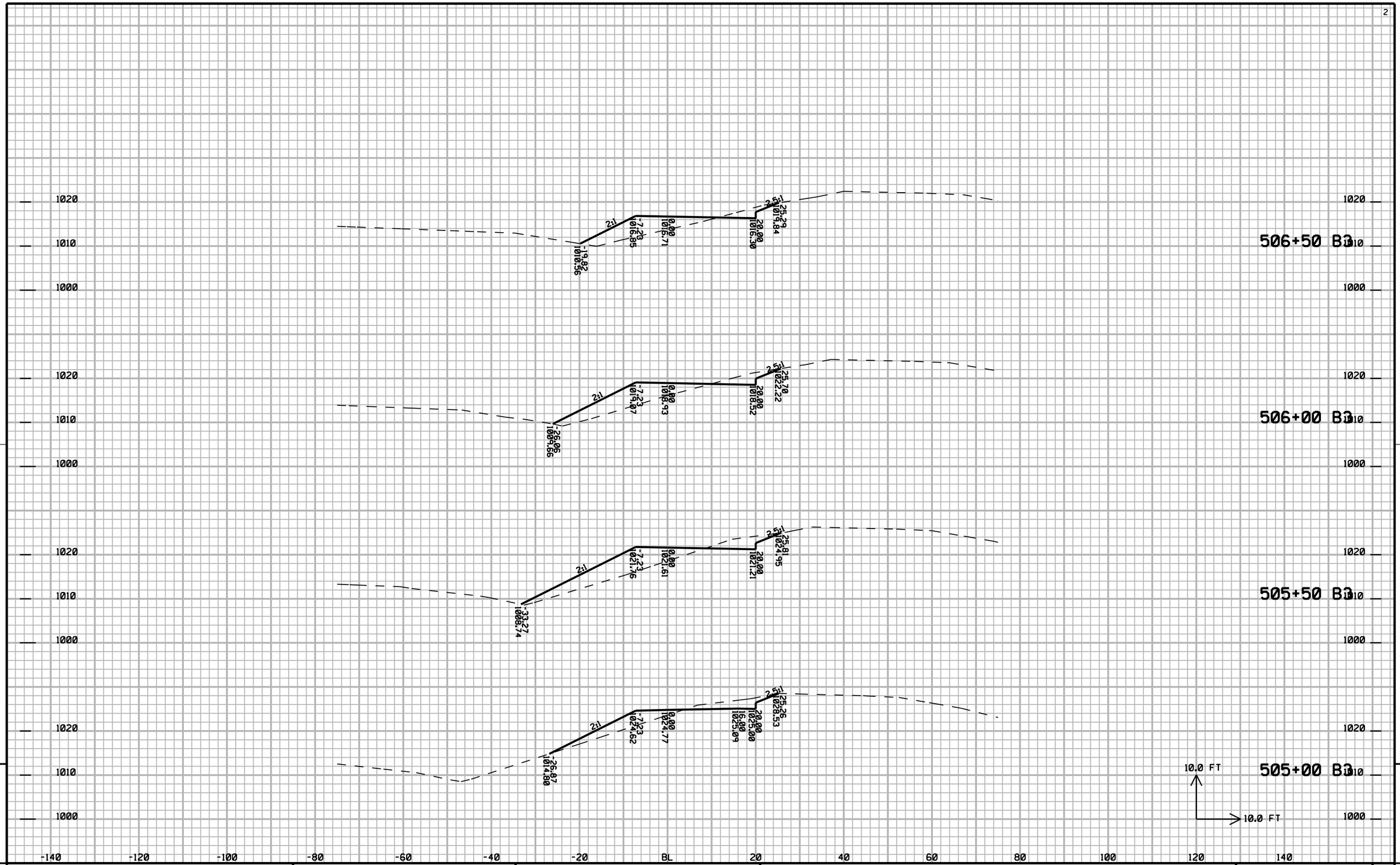
WISDOT/CADDS SHEET 21



PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: STAGE 3E: B3-RAMP	SHEET NO: 1118 E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090213_3BXS.DGN PLOT DATE : 4/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 21



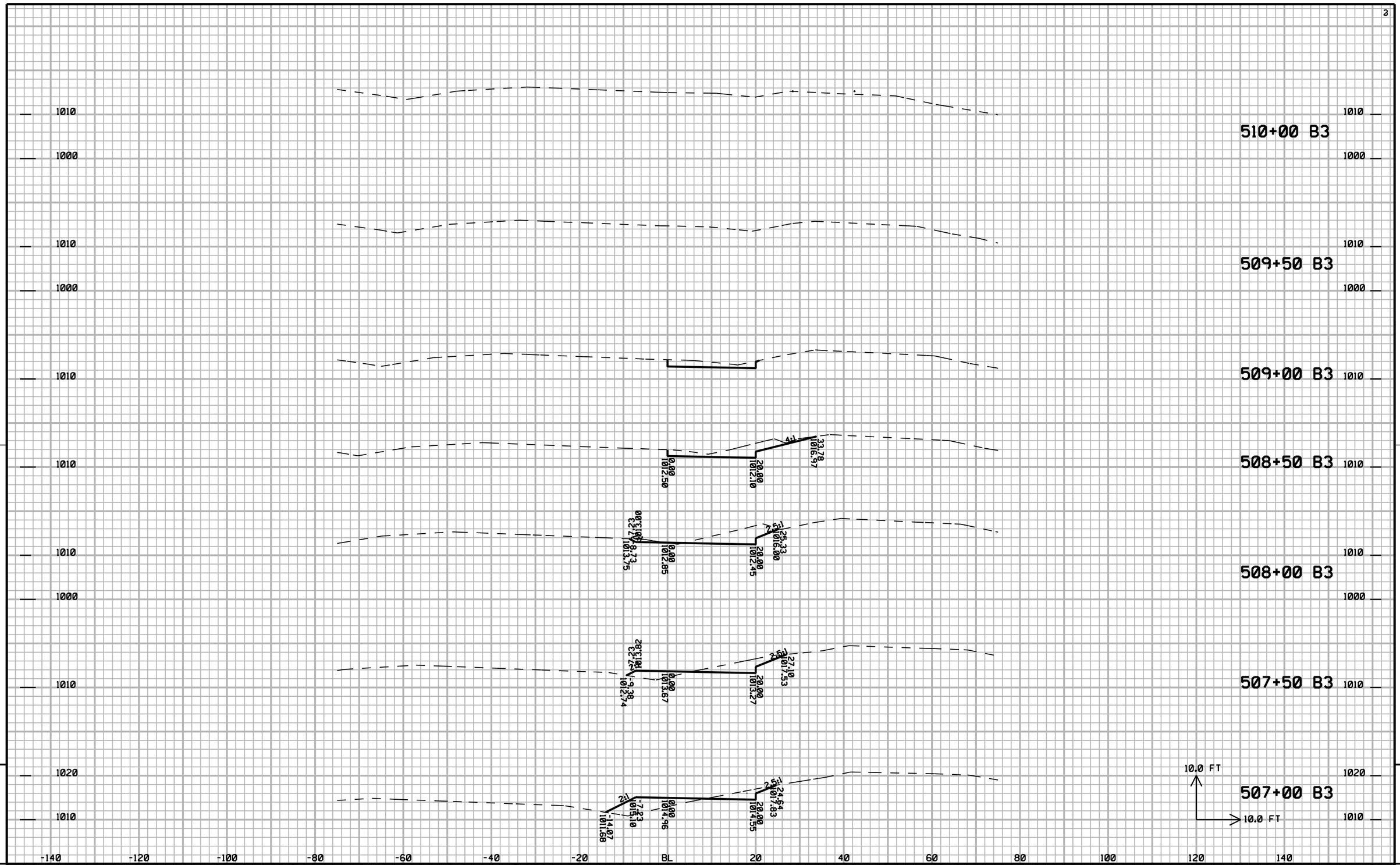
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PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: STAGE 3E: B3-RAMP	SHEET NO: 1119	E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090213_3BXS.DGN PLOT DATE : 4/29/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 21



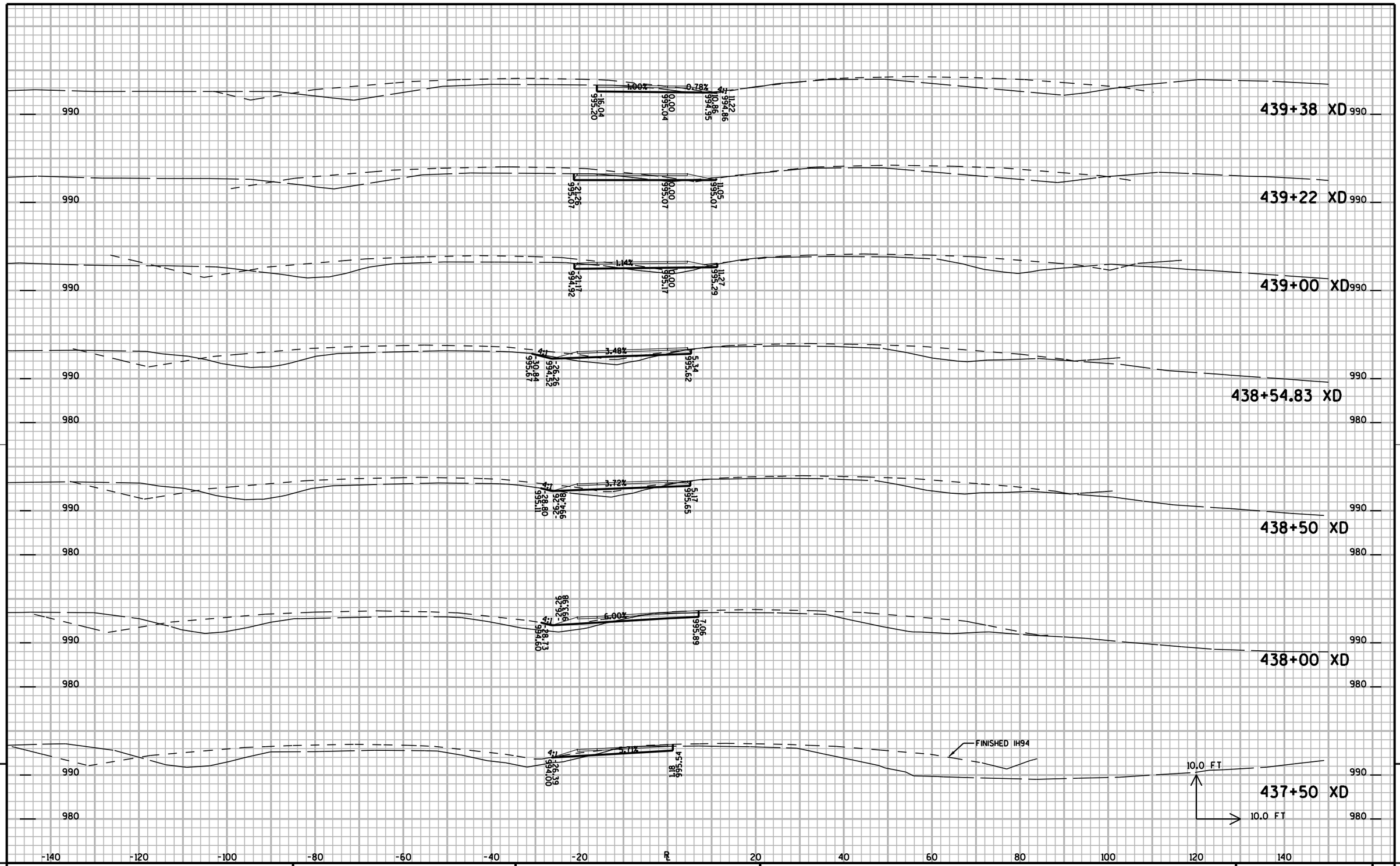
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PROJECT NO: 1020-07-74	HWY: IH94	COUNTY: ST CROIX	CROSS SECTIONS: STAGE 3E:B3-RAMP	SHEET NO: 1120	E

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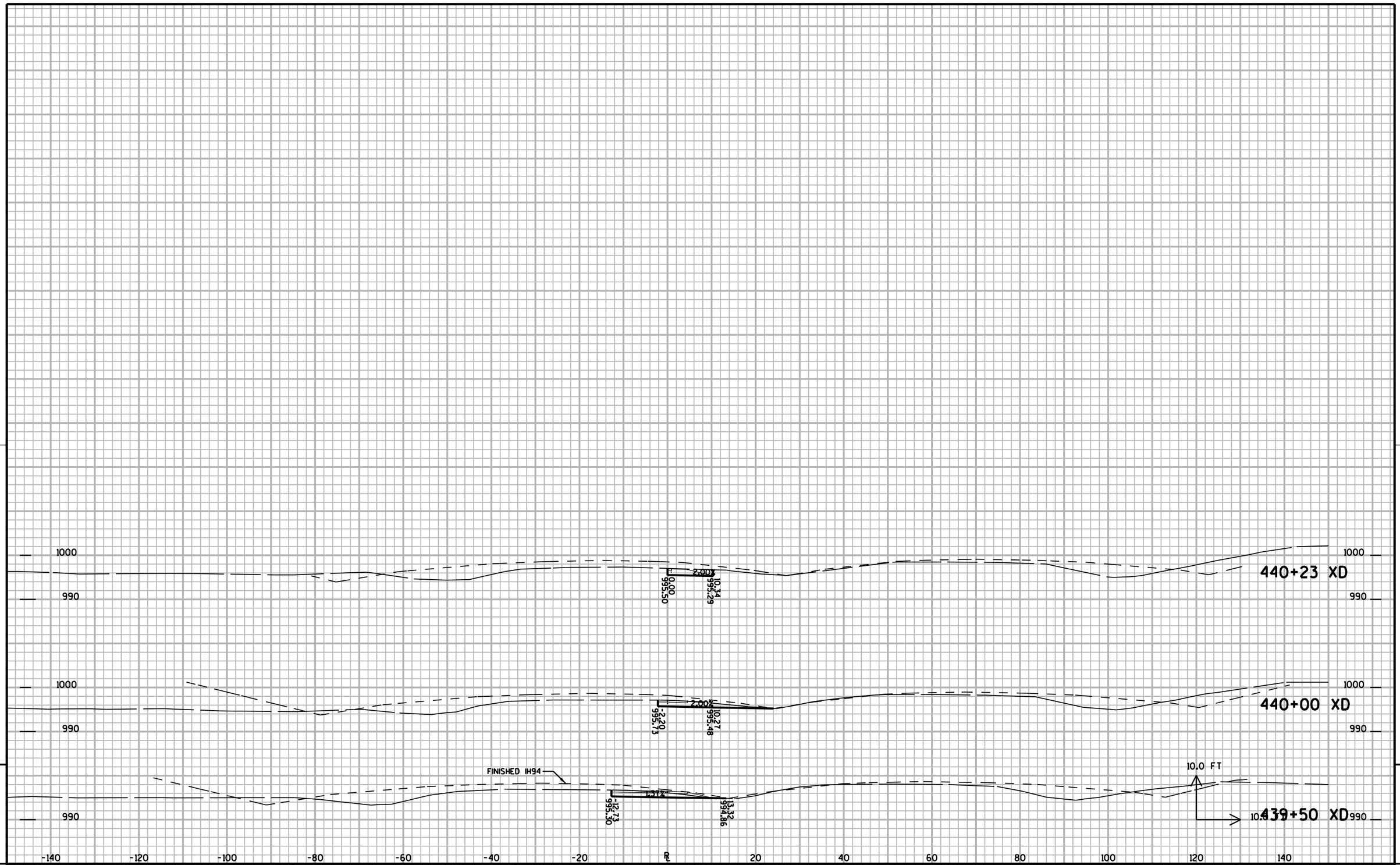
WISDOT/CADDS SHEET 21



PROJECT NUMBER: 1020-07-74	HWY: IH 94	COUNTY: ST CROIX	CROSS SECTIONS: STAGE 2A: XD CROSSOVER	SHEET NO: 1121 E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090214_XD.dgn PLOT DATE : 4/27/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 21



PROJECT NUMBER: 1020-07-74	HWY: IH 94	COUNTY: ST CROIX	CROSS SECTIONS: STAGE 2A: XD CROSSOVER	SHEET NO: 1122	E

FILE NAME : G:\STRAND\S100917\DGN\XSECTIONS\090214_XD.dgn PLOT DATE : 4/27/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 21

Notes

Wisconsin Department of Transportation

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