MAD AUGUST 2014

PROJECT ID: 3060-02-62

WITH: 3060-02-70

COUNTY: COLUMBIA

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
~~Section No.~~	~~4~~	~~Right of Way Plat~~
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 354

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
3060-02-62	WISC 2014292	1
3060-02-70	WISC 2014293	1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

IH 94 - COLUMBUS
STH 73
COLUMBIA

(SCHAEFER RD. TO USH 151 INTERCHANGE)

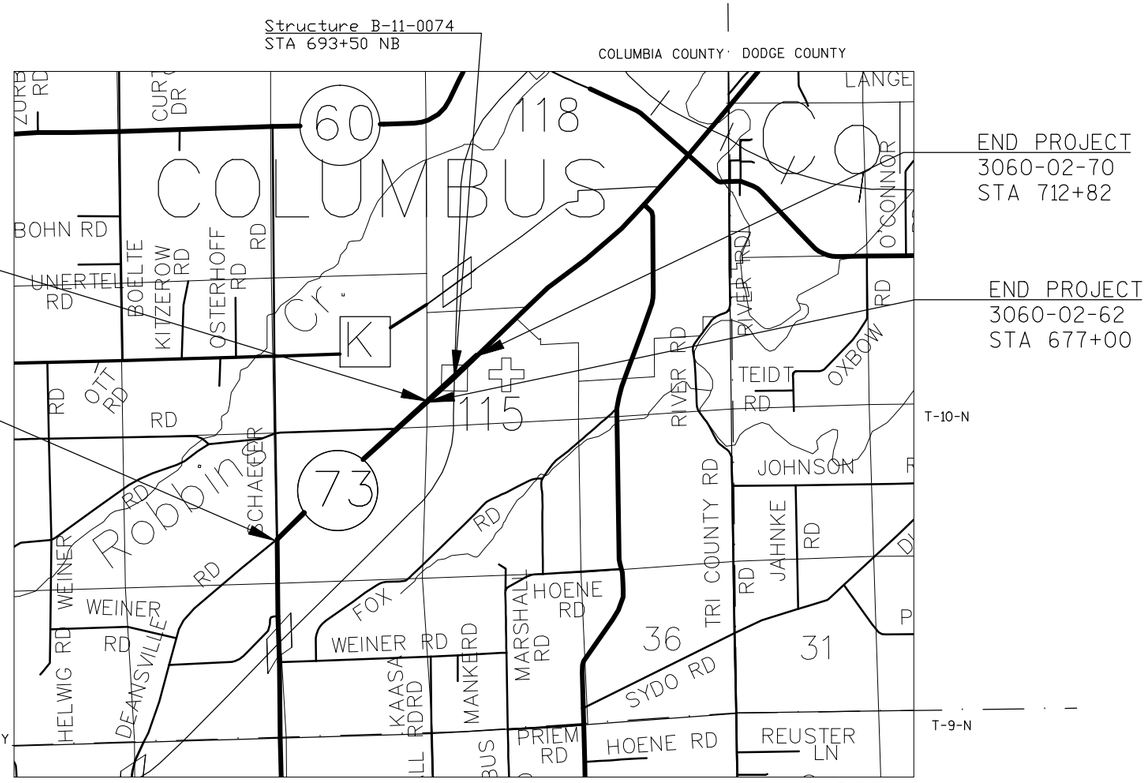
STATE PROJECT NUMBER
3060-02-62

(USH 151 SOUTH JCT INTERCHANGE AREA)

STATE PROJECT NUMBER
3060-02-70







LAYOUT SCALE 0 0.57 MI.

DANE COUNTY | DODGE COUNTY

3060-02-62 TOTAL NET LENGTH OF CENTERLINE = 1.286 MI.
3060-02-70 TOTAL NET LENGTH OF CENTERLINE = 0.678 MI.
TOTAL PROJECT LENGTHS = 1.964 MI.

DESIGN DESIGNATION

A.A.D.T.	2012	= 5440
A.A.D.T.	2032	= 6550
D.H.V.		= 6.1%
D.D.		= 59/41
T.		= 7.1 %
DESIGN SPEED		= 50-60MPH
ESALS		= 949,000

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) — COLUMBIA COUNTY / DANE COUNTY
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

ORIGINAL PLANS PREPARED BY

PEOPLE WHO CARE, CREATING QUALITY TRANSPORTATION TODAY AND TOMORROW

WISDOT SOUTHWEST REGION – MADISON OFFICE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	WISDOT
Designer	JEREMY WHITE
Project Manager	JEREMY HALL
Regional Examiner	-
Regional Supervisor	TERI SCHOPP
C.O. Examiner	

APPROVED FOR THE DEPARTMENT

DATE: 4/28/2014 Teri Schopp (Signature)

E

2

GENERAL NOTES

COORDINATES SHOWN ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS) COLUMBIA COUNTY, NAD 83 (2007).

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF NAVD 88 (2007).

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER IN THE FIELD.

UTILITIES WERE NOT SURVEYED FOR PROJECT 3060-02-62 AND THERE ARE UTILITY FACILITIES WITHIN THE PROJECT LIMITS NOT SHOWN ON THE PLANS. CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITES ARE MEMBER OF DIGGERS HOTLINE.IF THRE ARE CONFLICTS WITH NEW BEAM GUARD, SIGNS, OR OTHER WORK UNDER PROJECT 3060-02-62, THE CONTRACTOR WILL WORK AROUND THE UTILITY FACILITIES.

THE LOCATIONS OF EXISTING UTILITY LOCATIONS AS SHOWN ON THE PLANS FOR PROJECT 3060-02-62 AND PROJECT 3060-02-70 ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE. IF UTILITY CONFLICTS OCCUR DURING CONSTRUCTION, FACILITIES ADJUSTMENTS WILL BE COORDINATED WITH THE CONTRACTOR.

CONTRACTOR TO VERIFY ELEVATIONS OFTHE EXISTING PAVEMENT TO REMAIN IN PLACE, PRIOR TO STAKING.

ALL NEW AND RELAID CONCRETE PIPES SHALL HAVE THE APRON ENDWALL AND FIRST TWO PIPE JOINTS TIED.

HMA PAVEMENT AND WEIGHT CALULATIONS ARE BASED ON 112 LB/SY/IN.

ASPHALTIC MATERIAL PG58-28 CALCULATED AT 5.5% OF THE HMA PAVEMENT TONNAGE.

THE 3.5" TYPE E-1 HMA PAVEMENT LAYER FOR SHOULDERS AND TEMPORARY LANES MAY BE PLACED IN A SINGLE LAYER. THE 5" TYPE E-1 HMA PAVEMENT IS TO BE PLACED USING A 3" LOWER LAYER AND A 2" UPPER LAYER. THE 12.5 mm MIX GRADATION MAY BE USED IN BOTH HMA PAVEMENT LAYERS. APPLY TACK COAT BETWEEN LAYERS OF PAVEMENT AND TO MILLED SURFACES. THE APPLICATION RATE IS 0.025 GALLONS PER SQUARE YARD OR AS DIRECTED BY THE ENGINEER.

THE CONSTRACTOR'S PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, PASSING, OR PARKING LANE.

SAWCUTS, AS SHOWN ON THE PLANS, ARE SUGGETED LOCATIONS AND MAY BE ADJUSTED AT THE DISCRETION OF THE ENGINEER TO BETTER SUIT FIELD CONDITIONS.

EXACT SIGN LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND THE LOCATIONS OF SIGNS ARE TO BE DETERMINED IN THE FIELD, BY THE ENGINEER.

THE EROSION CONTROL DEVICES AS SHOWN ON THE EROSION CONTROL SHEETS ARE AT SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER. EROSION CONTROL DEVICES SHALL BE PLACED IN SEQUENCE WITH CONSTRUCTION OPERATIONS OR AS DETERMINED BY THE ENGINEER.

INLETS SHALL BE COVERED AS NECESSARY TO PREVENT CONSTRUCTION MATERIAL FROM FALLING INTO THE INLETS.

ALL OPENINGS OF HOLES BELOW SUBGRADE RESULTING FROM REMOVALS OR ABANDONMENTS SHALL BE BACKFILLED WITH GRANULAR MATERIAL AND COMPACTED. GRANULAR MATERIAL IS INCIDENTAL TO THE REMOVAL ITEM.

ALL PROPERTY LINES IN PLANS ARE APPROXIMATE.

ANY 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, ALL SIGNS RELATING TO THIS OPERATION SHALL BE COVERED OR REMOVED AND FACILITY RESTORED TO NORMAL OPERATIONS.

PAVING LIMITS AT INTERSECTIONS ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER AND SHALL HAVE BUTT JOINTS.

THE LOCATION OF STOP LINES SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.

BEAM GUARD WILL BE REPLACED THE SAME DAY IT IS REMOVED FOR THE BEAM GUARD NEAR THE BOX CULVERT AT STA 654+00.

PRIOR TO PLACEMENT OF BEAM GUARD THE SHOULDERS SHALL BE IN PLACE, SHAPED AND COMPACTED.

CURB AND GUTTER PLAN GRADES ARE AT THE FLANGE LINE UNLESS OTHERWISE NOTED.

RADIUS DIMENSIONS FOR THE MEDIAN CURB AND GUTTER ARE TO THE FLANGE OF CURB. RADIUS DIMENSIONS FOR THE CHANNELIZING ISLANDS AT THE RAMPS ARE AT THE BACK OF CURB.

USE A 0.21 MI SIGHT DISTANCE WHEN LOCATING NO PASSING ZONES BETWEEN SCHAEFER RD AND THE INTERCHANGE OF STH 73 & USH 151.

ADAMS-COLUMBIA ELECTRIC COOPERATIVE (ELECTRIC)
BILL KEARNS
W6290 HWY 33
PO BOX 216
PARDEEVILLE, WI 53954
(608) 429-4105
bkearns@acecwi.com

ATC MANAGEMENT, INC. (ELECTRIC)
ALEX METZ
5303 FEN OAK DR
MADISON, WI 53718
(608)877-7105
ametz@atcllc.com

AT&T WISCONSIN (COMMUNICATION)
CHUCK BARTELT
70 E. DIVISION ST.
FOND DU LAC, WI 54986
(920) 929-1013
Cb1461@att.com

CHARTER COMMUNICATIONS (COMMUNICATION)
KIRK UPPERMAN
2701 DANIELS ST.
MADISON, WI 53718
(608) 209-3206
kirk.upperman@chartercom.com

COLUMBUS WATER AND LIGHT DEPT (ELECTRIC & WATER)
ERIC ANTHON
950 MAPLE AVE
P.O. BOX 228
COLUMBUS, WI 53925
(920) 623-5912
eanthon@columbuswaterandlight.com

WE ENERGIES (GAS)
JOHN BEHLING
1251 W. MAIN ST
SUN PRAIRIE, WI 53590
(920) 262-6883
(608) 575-4596 -cell
Johnathon.behling@we-energies.com

DIGGERS HOTLINE
Dial 811 or (800) 242-8511
www.DiggersHotline.com

WI DNR LIASON
ERIC HEGGELUND
3911 FISH HATCHERY ROAD
FITCHBURG, WI 53711
(608) 275-3301
eric.heggelund@wisconsin.gov

2

STANDARD ABBREVIATIONS

AC.	ACRE	MAX.	MAXIMUM
AGG.	AGGREGATE	MGAL	1000 GALLONS
AH	AHEAD	MIN.	MINIMUM
<	ANGLE	N.C.	NORMAL CROWN OR NO CHANGE
AE, AEW	APRON ENDWALL	N	NORTH
ASPH.	ASPHALTIC	NO.	NUMBER
A.D.T.	AVERAGE DAILY TRAFFIC	PAV'T	PAVEMENT
B.F.	BACK FACE	P.L.E.	PERMANENT LIMITED EASEMENT
BK.	BACK	P.C.	POINT OF CURVATURE
BEG.	BEGIN	P.I.	POINT OF INTERSECTION
B.M.	BENCH MARK	P.T.	POINT OF TANGENCY
C/L	CENTER LINE	V.P.C.	VERTICAL POINT OF CURVATURE
D	CENTRAL ANGLE OR DELTA	V.P.I.	VERTICAL POINT OF INTERSECTION
C.M.C.P.	CORRUGATED METAL CULVERT PIPE	V.P.T.	VERTICAL POINT OF TANGENCY
C.M.P.	CORRUGATED METAL PIPE	PCC	PORTLAND CEMENT CONCRETE
CO.	COUNTY	P.E.	PRIVATE ENTRANCE
CTH	COUNTY TRUNK HIGHWAY	P.L.	PROPERTY LINE
CR.	CREEK	R	RADIUS OR RANGE
C.A.B.C.	CRUSHED AGGREGATE BASE COURSE	R/L	REFERENCE LINE
C.Y.	CUBIC YARD	R.C.C.P.	REINFORCED CONCRETE CULVERT PIPE
C.P.	CULVERT PIPE	RT	RIGHT
C. & G.	CURB AND GUTTER	REQ'D	REQUIRED
D	DEGREE OF CURVE	R.H.F.	RIGHT HAND FORWARD
D.H.V.	DESIGN HOUR VOLUME	R/W	RIGHT OF WAY
DIA.	DIAMETER	R.	RIVER
DISCH.	DISCHARGE	RD.	ROAD
EA	EACH	SHLD.	SHOULDER(S)
E	EAST	SHR.	SHRINKAGE
ELEC.	ELECTRIC(AL), ELEC. CABLE	S	SOUTH
EL., ELEV.	ELEVATION	S.F.	SQUARE FOOT (FEET)
EXC.	EXCAVATION	SDD	STANDARD DETAIL DRAWING(S)
F.F.	FACE TO FACE	STH	STATE TRUNK HIGHWAY
FERT.	FERTILIZER	STA.	STATION
F.E.	FIELD ENTRANCE	S.E.	SUPERELEVATION
F/L, F.L.	FLOW LINE	S/L	SURVEY LINE
CWT.	HUNDRED WEIGHT	T	TANGENT
INL	INLET	TEL.	TELEPHONE
INTER.	INTERSECTION	TEMP.	TEMPORARY
JT.	JOINT	T.L.E.	TEMPORARY LIMITED EASEMENT
LT	LEFT	T.O.C.	TOP OF CURB
L.H.F.	LEFT HAND FORWARD	T.	(TRUCKS) PERCENT OF
L.	LENGTH OF CURVE	TYP.	TYPICAL
L.F.	LINEAR FOOT(FEET)	UNCL.	UNCLASSIFIED
LC.	LONG CHORD	U.G.	UNDERGROUND (CABLE)
LS	LUMP SUM	V.C.	VERTICAL CURVE
M.P.	MARKER POST	W	WEST

SECTION 2 ORDER OF SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
PAVING GRADES
EROSION CONTROL
STORM SEWER
PERM/ SIGNING AND PAVEMENT MARKING FOR -62 PROJECT
PERM. SIGNING AND REMOVALS FOR -70 PROJECT
PAVEMENT MARKING -70 PROJECT
TRAFFIC CONTROL
ALIGNMENT LAYOUT

2

(WISDOT) DESIGN PROJECT MANAGER
JEREMY HALL
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(WISDOT) DESIGN PROJECT LEADER
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2

N

USH 151 SB
RAMP D
B-11-0074
STH 73 NB
RAMP C
RAMP A
STH 73 SB
STH 73
RAMP B
USH 151 NB

END PROJECT
3060-02-70
STA 712+82

STRUCTURE B-11-0074
3060-02-70
STA 693+50 NB

END PROJECT
3060-02-62
STA 677+00

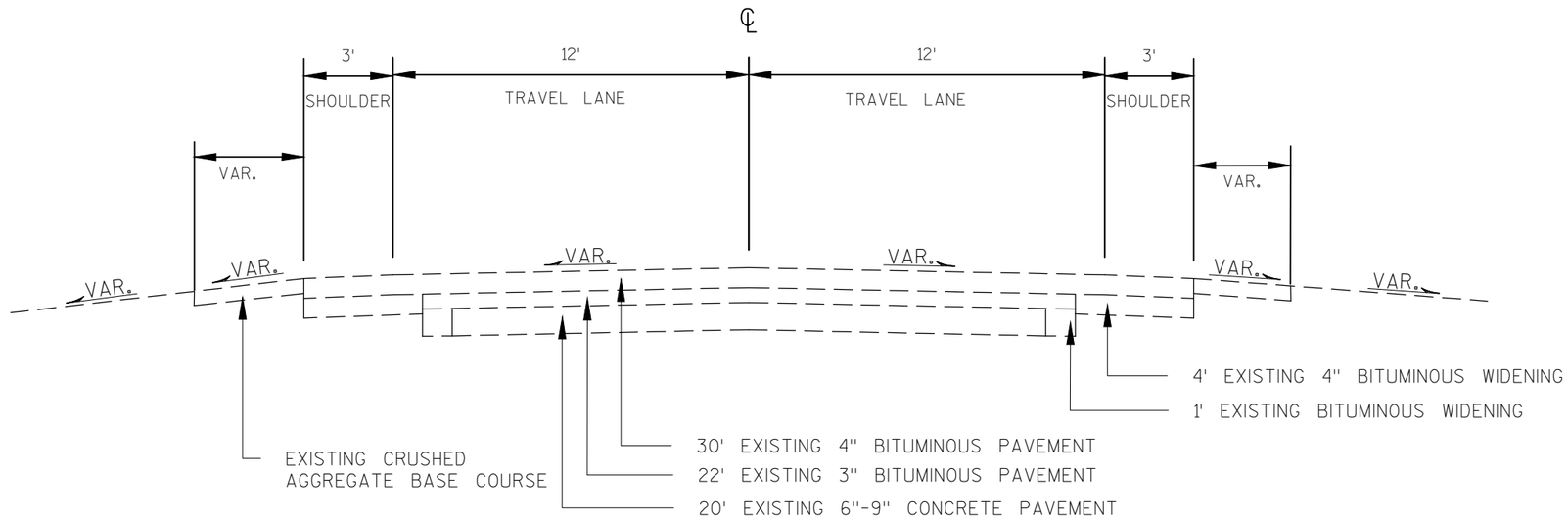
BEGIN PROJECT
3060-02-62
STA 609+12.5

STRUCTURE C-13-3032
3060-02-62
(NO PROPOSED WORK)

BEGIN PROJECT
3060-02-70
STA 677+00

PROJECT NO: 3060-02-62/70	HWY: STH 73	COUNTY: COLUMBIA	PROJECT OVERVIEW	SHEET 4

2



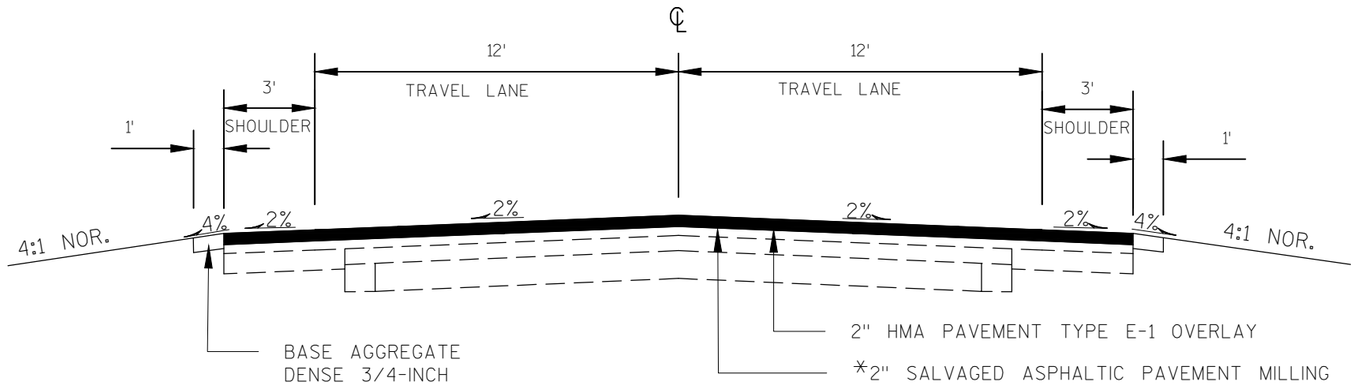
TYPICAL EXISTING SECTION

STH 73 STA 609+12.5 TO STA 677+00

PROJECT NO: 3060-02-62	HWY: STH 73	COUNTY: COLUMBIA	TYPICAL SECTIONS	SHEET 5	E

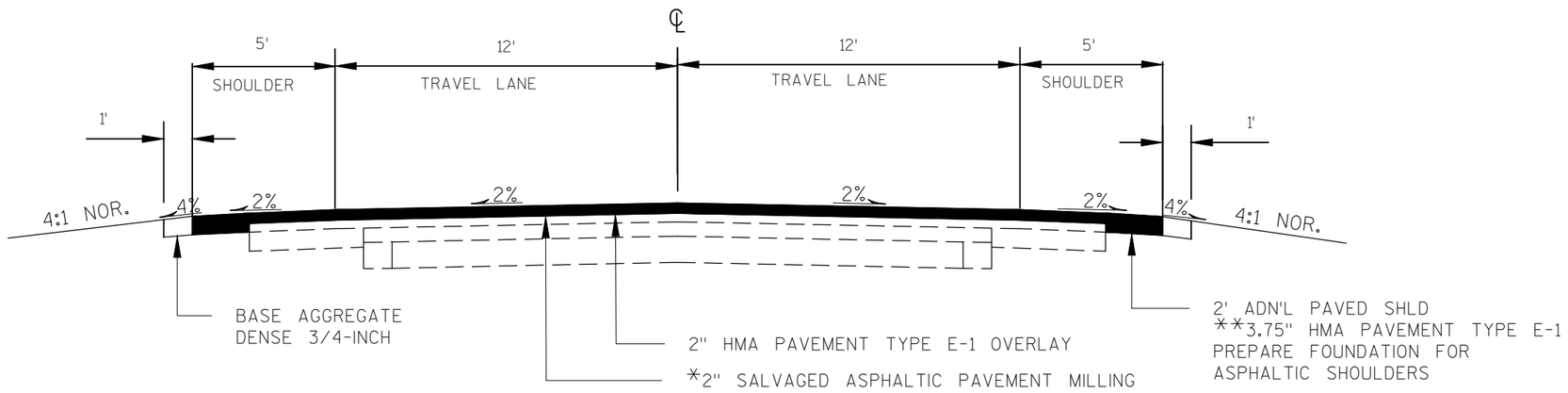
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WISDOT/CADDS SHEET 42



TYPICAL FINISHED SECTION

STH 73 STA 609+12.5 TO STA 655+00



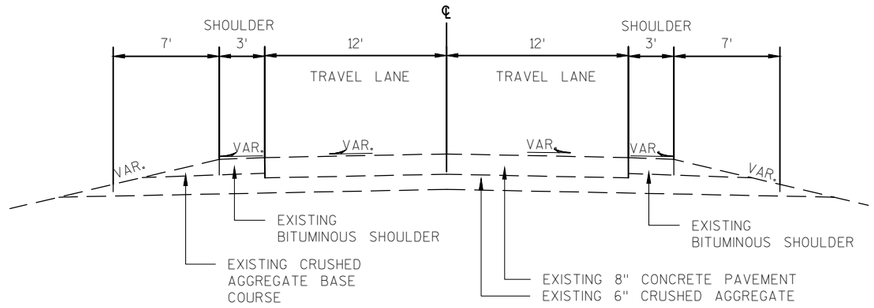
TYPICAL FINISHED SECTION

STH 73 STA 655+00 TO STA 677+00

*2" MILL DEPTH AT SHOULDER AND A 2% CROWNED CROSS-SLOPE WHERE SLOPE CORRECTION IS NEEDED.

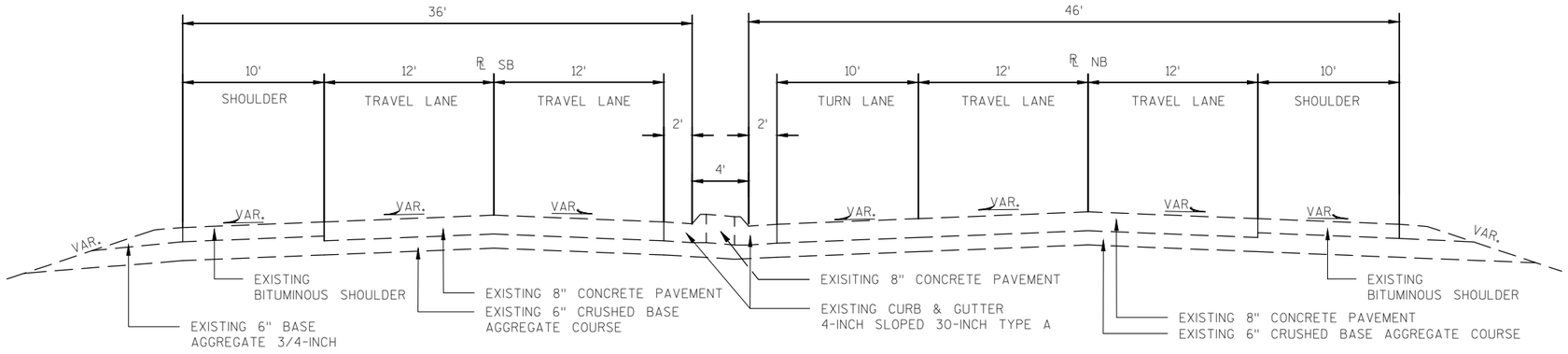
**3.75" HMA PAVEMENT, TYPE E-1 SHALL BE CONSTRUCTED WITH ONE 1.75" LOWER LAYER AND ONE 2" UPPER LAYER. UPPER LAYER SHALL BE PAVED INTEGRALLY WITH MAINLINE OVERLAY.

PROJECT NO: 3060-02-62	HWY: STH 73	COUNTY: COLUMBIA	TYPICAL SECTIONS	SHEET 6



TYPICAL EXISTING SECTION

STH 73 STA 677+00 TO STA 682+00
STH 73 STA 703+00 TO STA 704+50

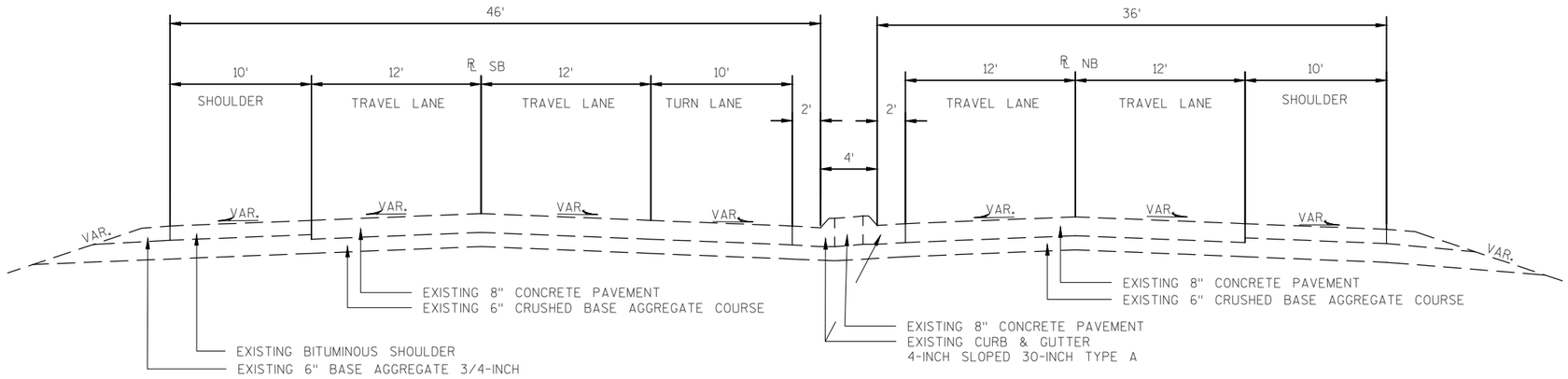


TYPICAL EXISTING SECTION

STH 73 NB STA 695+12 TO STA 698+00
STH 73 SB STA 695+55 TO STA 698+00

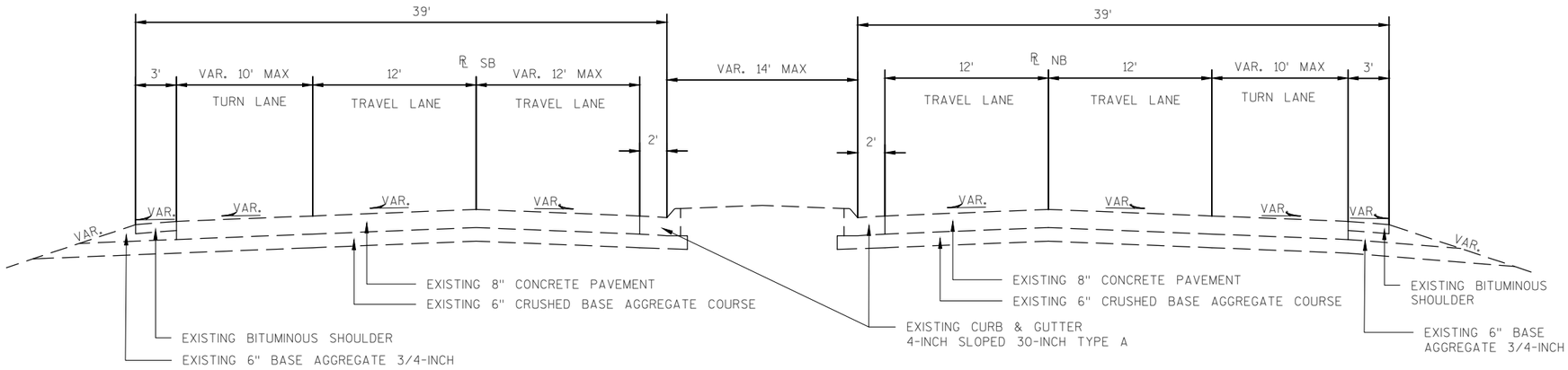
PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	TYPICAL SECTIONS	SHEET 7	E

2



TYPICAL EXISTING SECTION

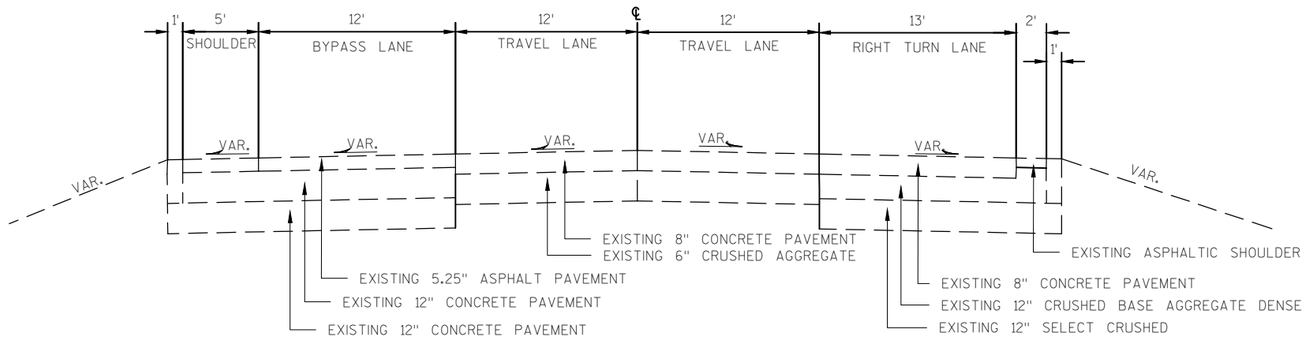
STH 73 NB STA 689+00 TO STA 691+70
STH 73 SB STA 689+00 TO STA 692+12



TYPICAL EXISTING SECTION

STH 73 682+00 TO STA 689+00
STH 73 698+00 TO STA 703+00

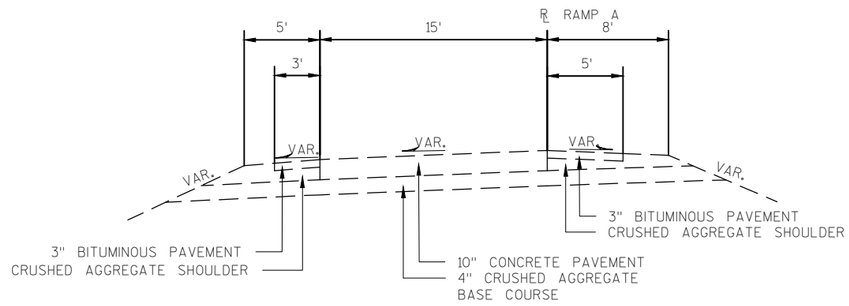
PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	TYPICAL SECTIONS	SHEET 8	E



TYPICAL EXISTING SECTION

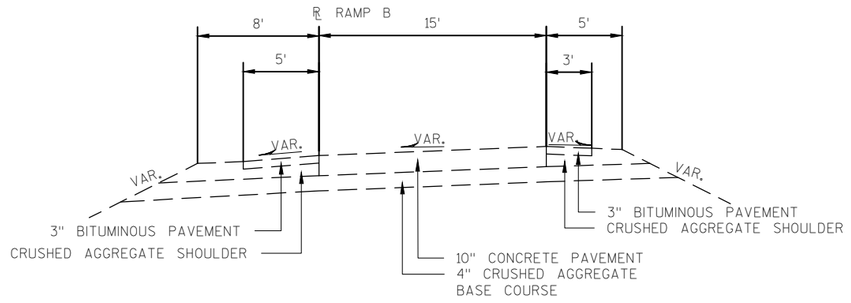
STH 73 704+50 TO STA 712+82

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	TYPICAL SECTIONS	SHEET 9	E



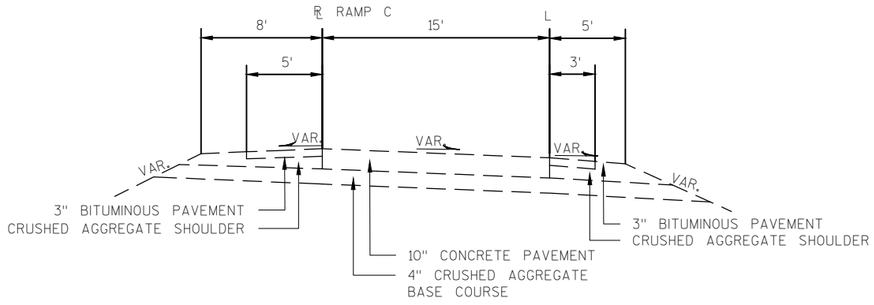
TYPICAL EXISTING SECTION

RAMP A STA 7+50 TO STA 9+80



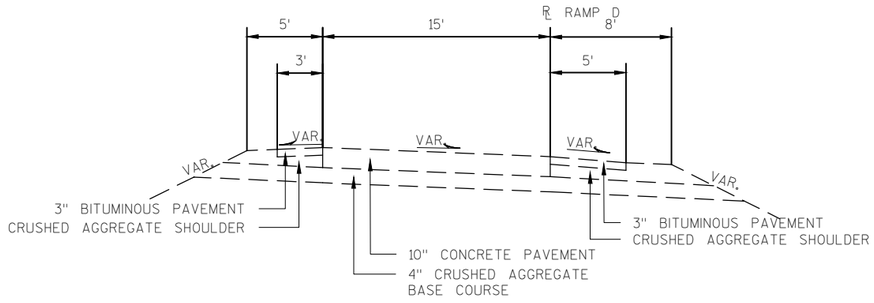
TYPICAL EXISTING SECTION

RAMP B STA 7+65 TO 9+72



TYPICAL EXISTING SECTION

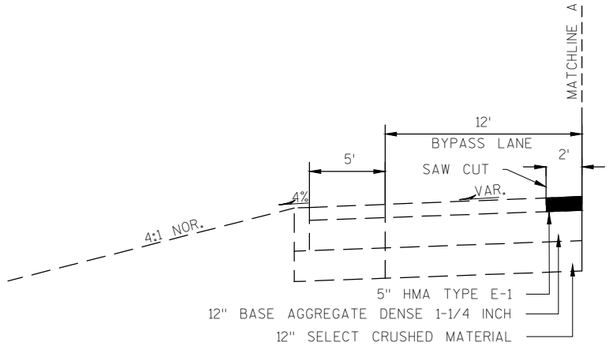
RAMP C STA 10+70 TO 13+50



TYPICAL EXISTING SECTION

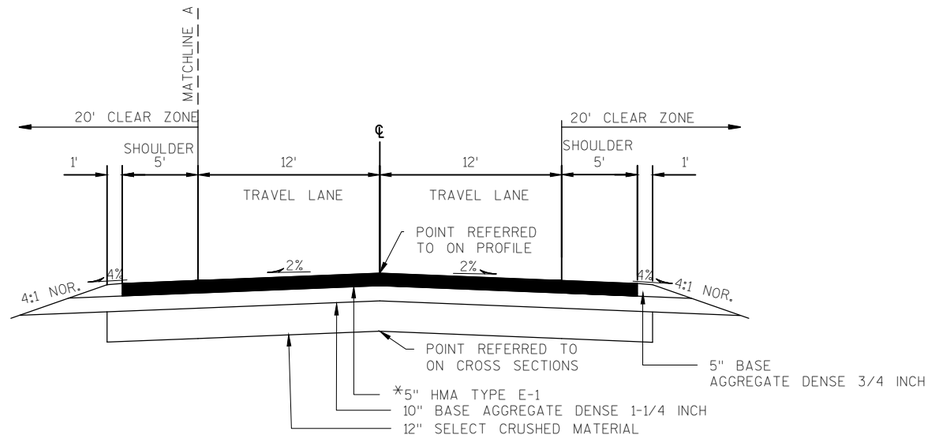
RAMP D STA 10+78 TO 12+35

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	TYPICAL SECTIONS	SHEET 10	E



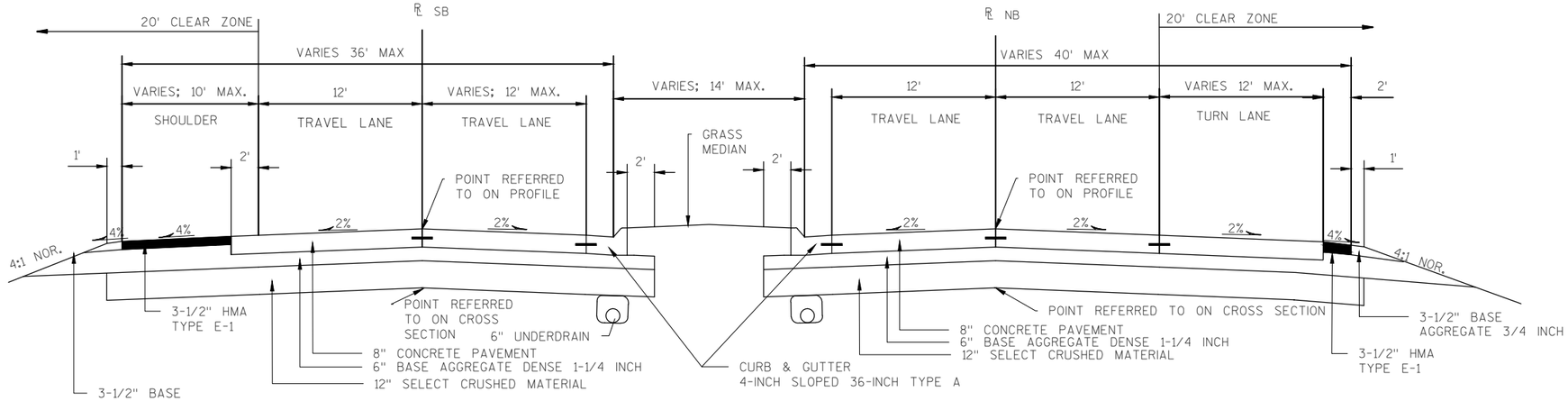
HERITAGE WAY BYPASS LANE

STH 73 STA 710+38 TO STA 712+82



TYPICAL FINISHED SECTION

STH 73 STA 677+00 TO STA 684+79



TYPICAL FINISHED SECTION

STH 73 684+79 TO STA 689+80

STH 73 NB

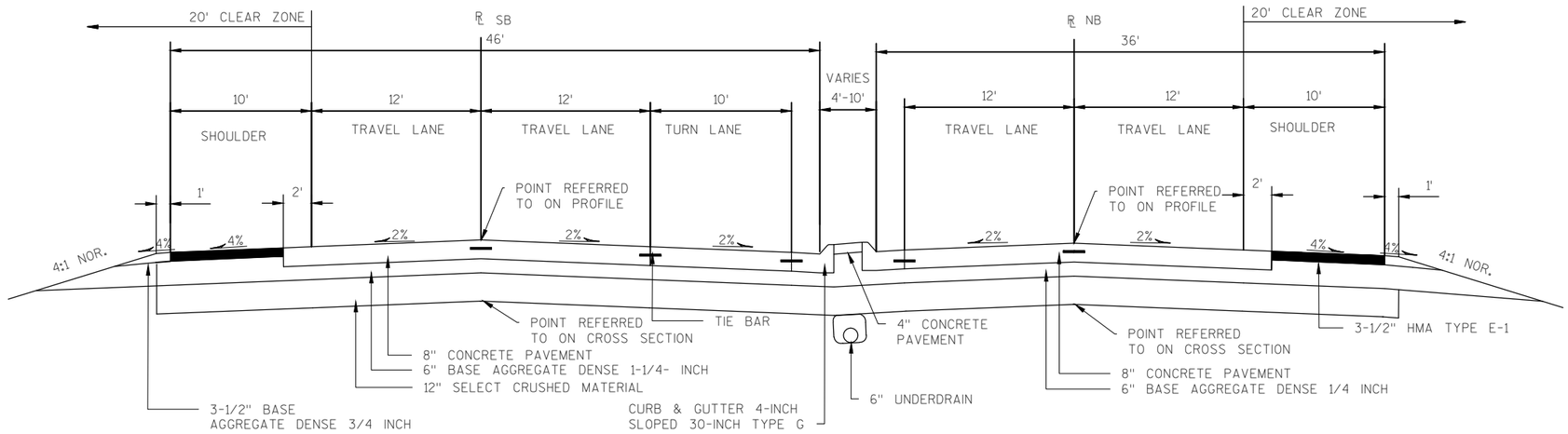
PC/PT	STATION	CURVE RADIUS	S.E.	SUPER TRANSITION (FT)	SUPER RUNOFF (FT)	NORMAL CROWN STATION	FLAT (HIGHSIDE) STATION	REVERSE CROWN -2% STATION	FULL SUPER STATION
PC	680+94.53	24404'	NC	N/A	N/A	N/A	N/A	N/A	N/A
PT	689+33.50	24404'	NC	N/A	N/A	N/A	N/A	N/A	N/A
PC	699+47.54	3800'	2.90%	130	77	698+43.10	698+96.20	699+49.30	699+73.20
PT	701+85.74	3800'	2.90%	130	77	702+90.18	702+37.08	701+83.97	701+60.08
PC	704+18.72	13389'	NC	N/A	N/A	N/A	N/A	N/A	N/A
PT	710+17.63	13389'	NC	N/A	N/A	N/A	N/A	N/A	N/A
PC	710+17.63	22070'	NC	N/A	N/A	N/A	N/A	N/A	N/A
PT	712+77.02	22070'	NC	N/A	N/A	N/A	N/A	N/A	N/A

STH 73 SB

PC/PT	STATION	CURVE RADIUS	S.E.	SUPER TRANSITION (FT)	SUPER RUNOFF (FT)	NORMAL CROWN STATION	FLAT (HIGHSIDE) STATION	REVERSE CROWN -2% STATION	FULL SUPER STATION
PC	678+11.40	7555'	2.2%	113	59	N/A	N/A	*N/A	677+00
PT	684+65.17	7555'	2.2%	113	59	N/A	N/A	*N/A	680+50
PC	686+65.83	3800'	3.7%	153	99	685+45.83	685+99.83	686+53.34	686+98.83
PT	688+27.00	3800'	3.7%	153	99	689+47.00	688+93.00	688+39.49	687+94.00
PC	707+39.41	21242'	NC	N/A	N/A	N/A	N/A	N/A	N/A
PT	712+67.51	21242'	NC	N/A	N/A	N/A	N/A	N/A	N/A

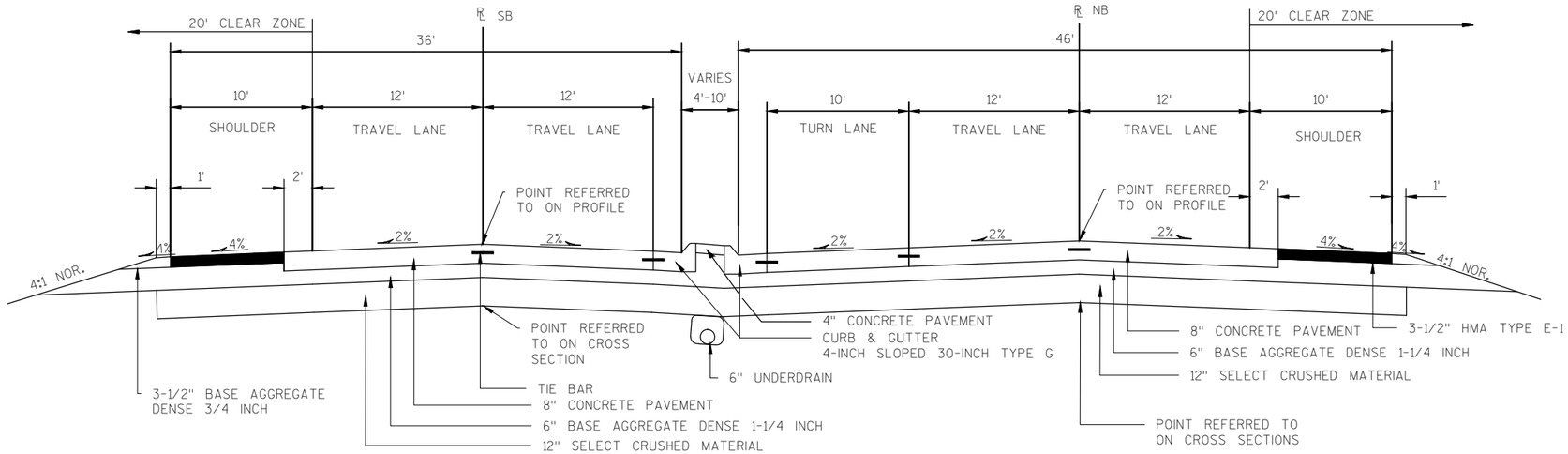
*NOTE: REVERSE CROWN WILL ONLY REACH 0.5%

PROJECT NO:3060-02-70	HWY:STH 73	COUNTY:COLUMBIA	TYPICAL SECTIONS	SHEET -- 11



TYPICAL FINISHED SECTION

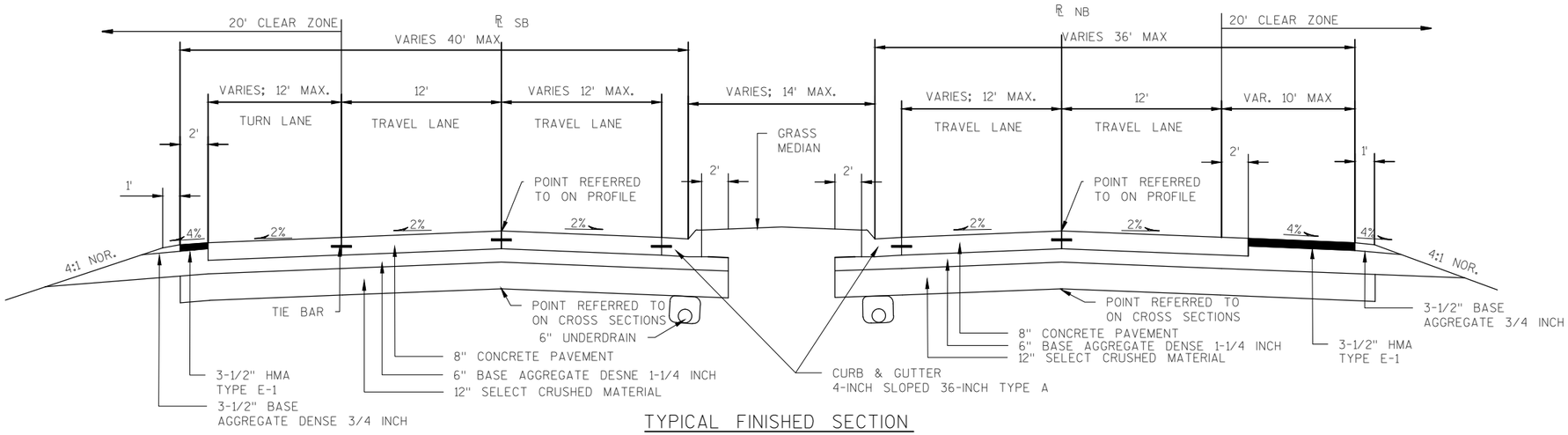
STH 73 NB STA 689+80 TO STA 691+70
STH 73 SB STA 689+80 TO STA 692+12



TYPICAL FINISHED SECTION

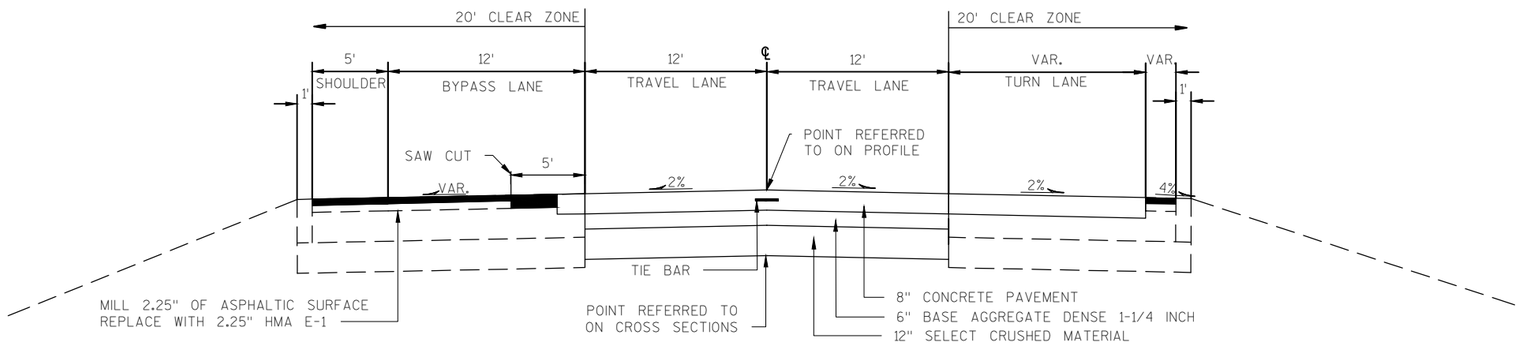
STH 73 NB STA 695+12 TO STA 697+20
STH 73 SB STA 695+55 TO STA 697+20

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	TYPICAL SECTIONS	SHEET -- 12



TYPICAL FINISHED SECTION

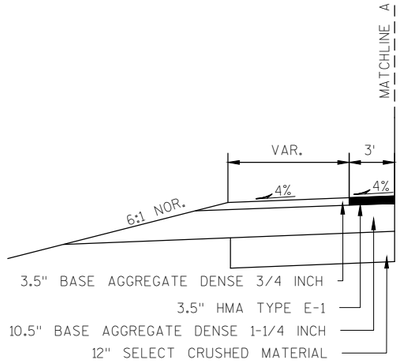
STH 73 697+20 TO STA 704+50



TYPICAL FINISHED SECTION

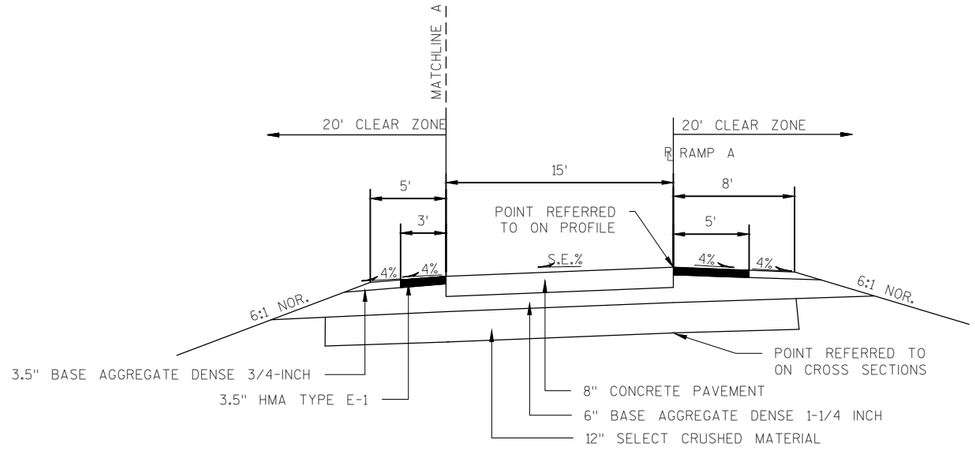
STH 73 704+50 TO STA 710+38

PROJECT NO:3060-02-70	HWY:STH 73	COUNTY:COLUMBIA	TYPICAL SECTIONS	SHEET -- 13



RAMP A OSOW AGGREGATE SHOULDER

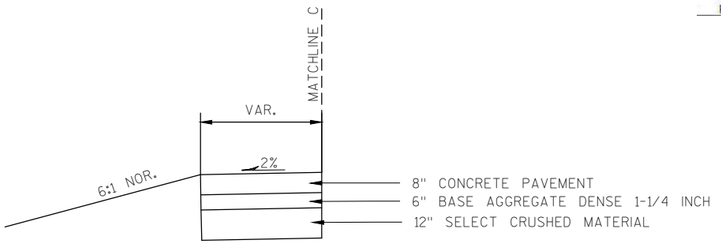
RAMP A STA 9+20 TO STA 9+80 LT.



TYPICAL FINISHED SECTION

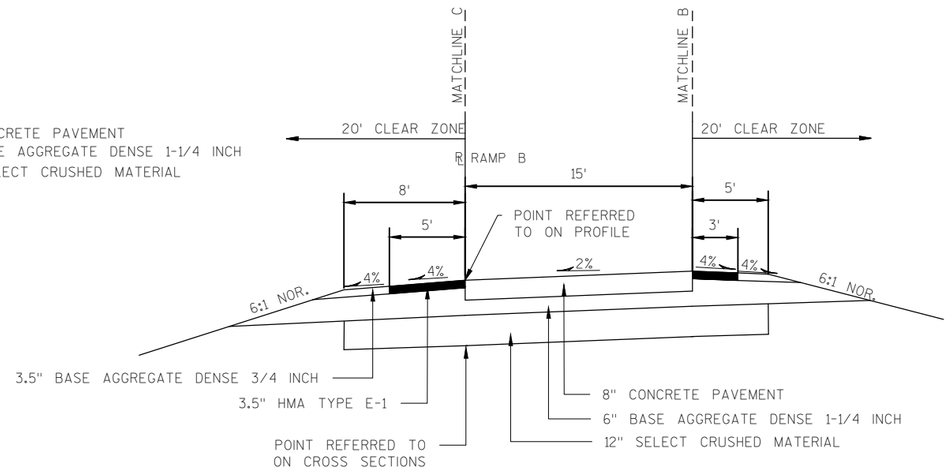
RAMP A STA 7+50 TO STA 9+80

PC/PT	STATION	CURVE RADIUS	S.E.	SUPER TRANSITION (FT)	SUPER RUNOFF (FT)	NORMAL CROWN STATION	FLAT (HIGHSIDE) STATION	REVERSE CROWN -2% STATION	FULL SUPER STATION
PC	5+31.60	716'	4.0%	110	73	N/A	N/A	N/A	5+31.60
PT	8+19.10	716'	4.0%	110	73	N/A	N/A	N/A	8+19.10
PC	8+44.10	250'	4.0%	110	73	N/A	N/A	N/A	8+44.10
PT	9+31.33	250'	4.0%	110	73	N/A	9+80.00	9+43.70	9+07.00



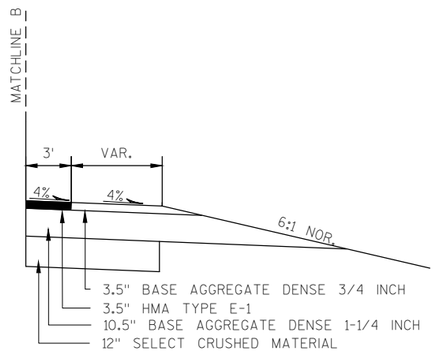
RAMP B OSOW CONCRETE SHOULDER

RAMP B STA 8+45 TO STA 9+72 LT.



TYPICAL FINISHED SECTION

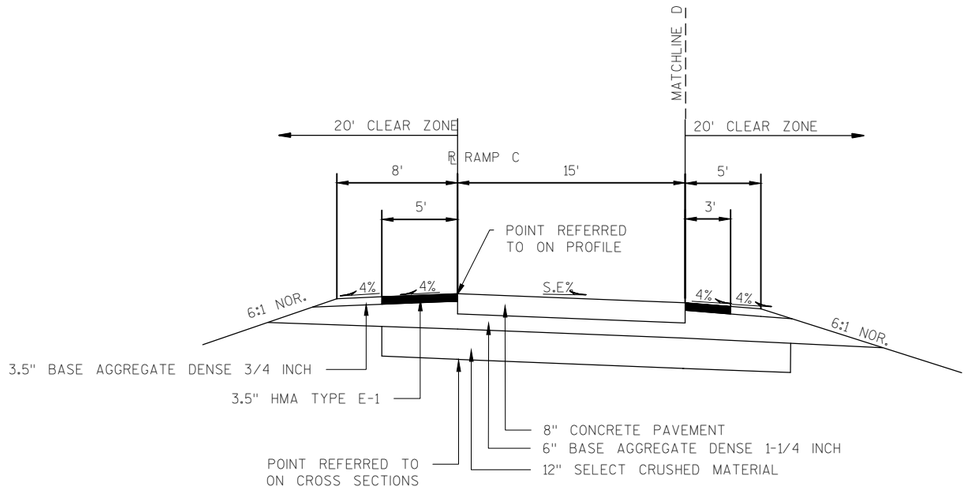
RAMP B STA 8+70 TO STA 9+72
RAMP B STA 7+65 TO STA 8+70*
*LEFT SHOULDER ONLY



RAMP B OSOW AGGREGATE SHOULDER

RAMP B STA 8+25 TO STA 9+72 RT.

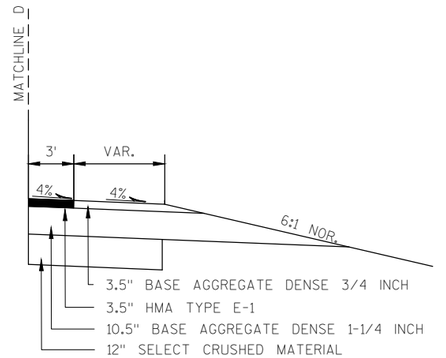
PROJECT NO:3060-02-70	HWY:STH 73	COUNTY:COLUMBIA	TYPICAL SECTIONS	SHEET 14



TYPICAL FINISHED SECTION

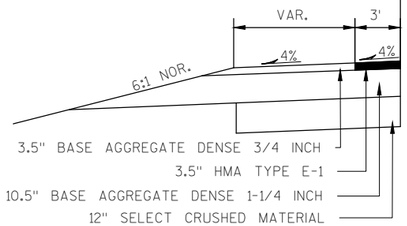
RAMP C STA 10+70 TO STA 13+50

PC/PT	STATION	CURVE RADIUS	S.E.	SUPER TRANSITION (FT)	SUPER RUNOFF (FT)	NORMAL CROWN STATION	FLAT (HIGHSIDE) STATION	REVERSE CROWN -2% STATION	FULL SUPER STATION
PC	11+18.49	300'	4.0%	110	73	N/A	N/A	N/A	11+42.82
PT	12+75.31	300'	4.0%	110	73	N/A	N/A	N/A	12+75.31
PC	13+15.31	415'	3.7%	103	67	N/A	N/A	N/A	13+15.31
PT	14+31.85	415'	3.7%	103	67	N/A	N/A	N/A	14+31.85



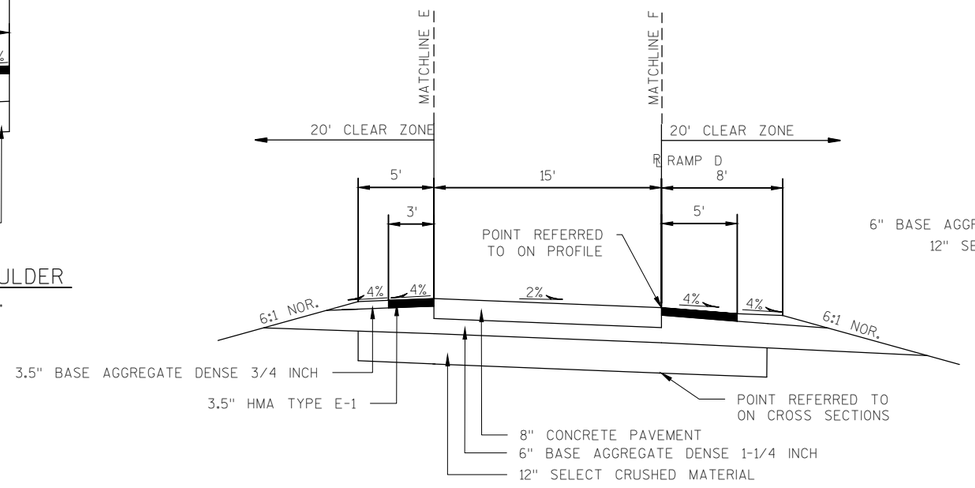
RAMP C OSOW AGGREGATE SHOULDER

RAMP B STA 8+25 TO STA 9+72 RT.



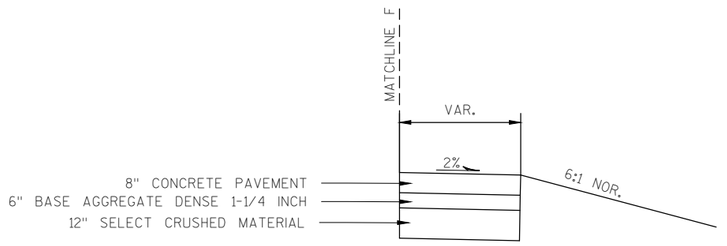
RAMP D OSOW AGGREGATE SHOULDER

RAMP A STA 9+20 TO STA 9+80 LT.



TYPICAL FINISHED SECTION

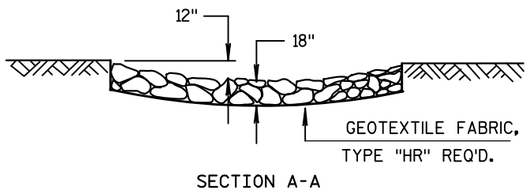
RAMP D STA 10+78 TO STA 12+35



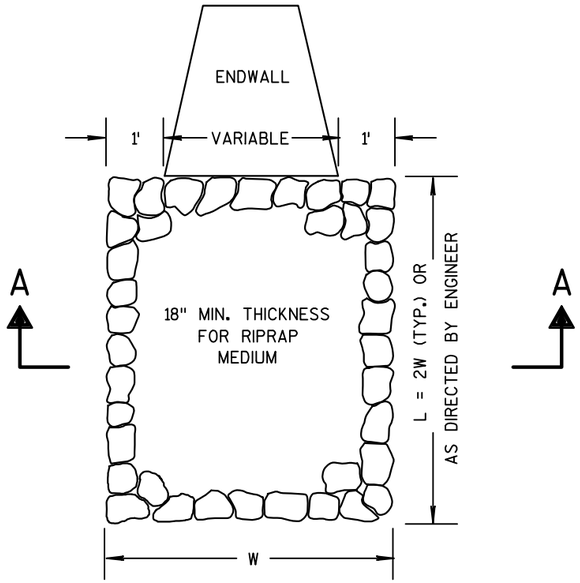
RAMP D OSOW CONCRETE SHOULDER

RAMP D STA 10+78 TO STA 12+25 RT.

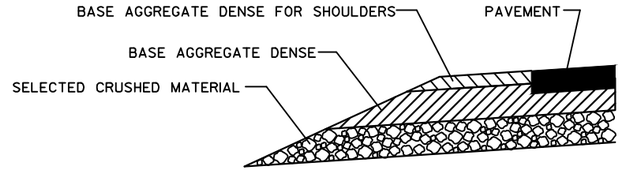
PROJECT NO:3060-02-70	HWY:STH 73	COUNTY:COLUMBIA	TYPICAL SECTIONS	SHEET -- 15



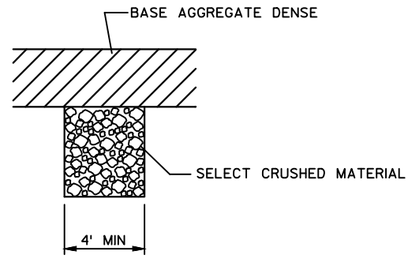
SECTION A-A



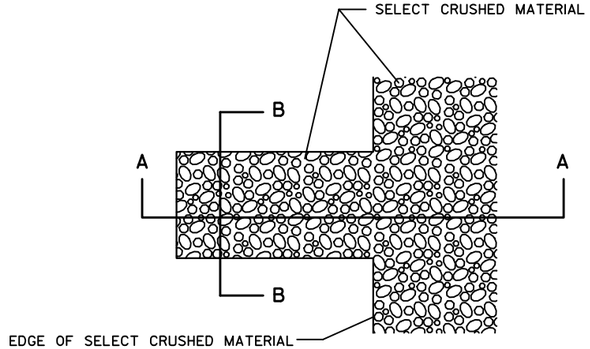
RIPRAP MEDIUM TREATMENT AT ENDWALLS



SECTION A-A



SECTION B-B

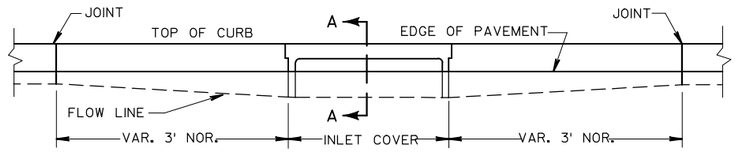


DETAIL FOR FRENCH DRAINS

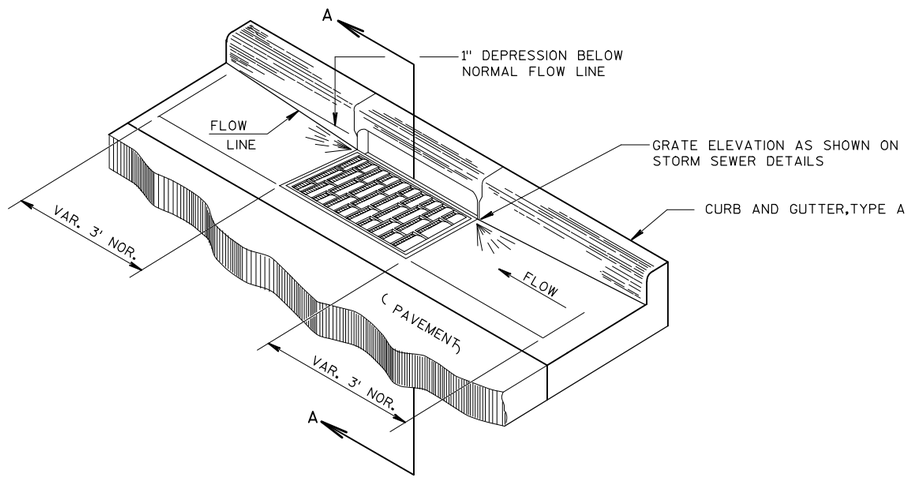
DRAINS ARE TO BE CONSTRUCTED AT LEAST EVERY 250'
AND AT EACH SAG VERTICLE CURVE IN THE PROFILE.

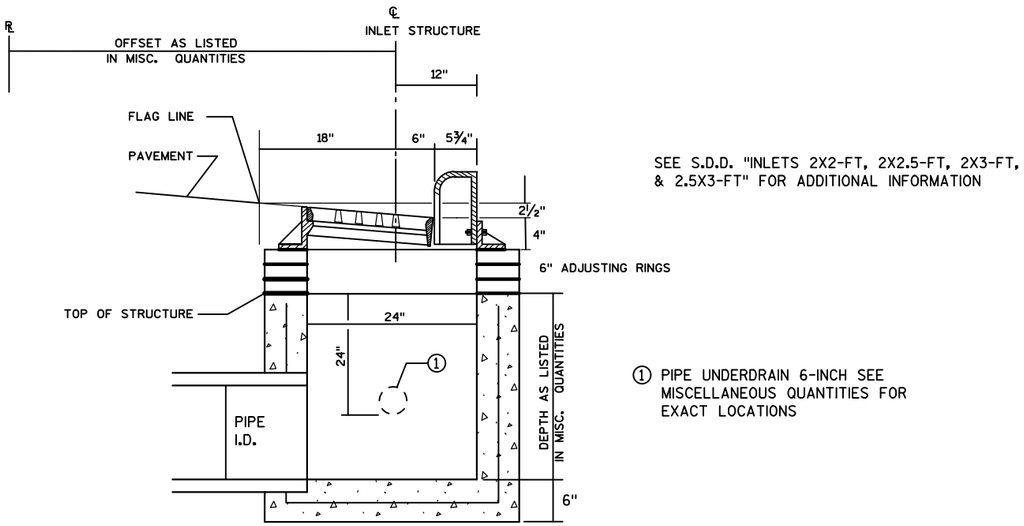
(LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER)

EXCAVATION REQUIRED TO CONSTRUCT FRENCH DRAINS SHALL
BE CONSIDERED INCIDENTAL TO THE ITEM SELECT CRUSHED MATERIAL.



ELEVATION



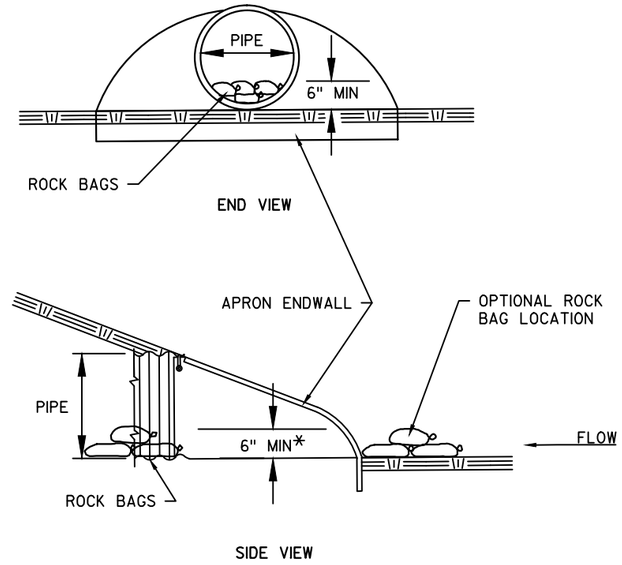


SEE S.D.D. "INLETS 2X2-FT, 2X2.5-FT, 2X3-FT, & 2.5X3-FT" FOR ADDITIONAL INFORMATION

① PIPE UNDERDRAIN 6-INCH SEE MISCELLANEOUS QUANTITIES FOR EXACT LOCATIONS

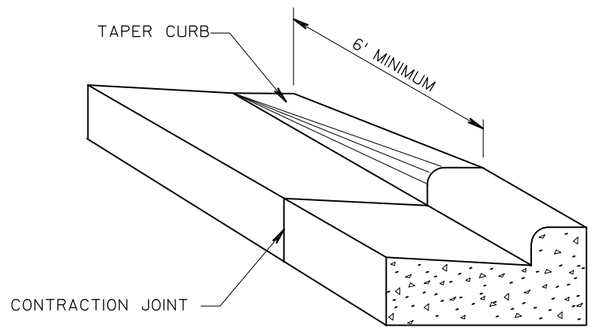
DETAIL OF CURB AND GUTTER AT INLETS & INLET LOCATION DETAIL

(2X3-FT INLET SHOWN)



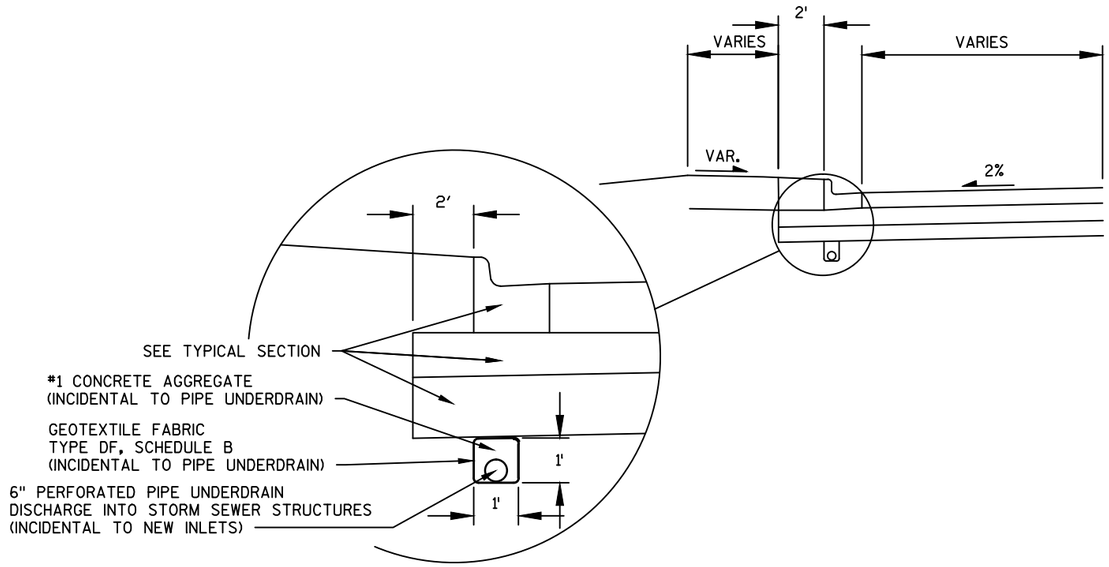
CULVERT PIPE CHECK

(INSTALL ON INLET END ONLY)

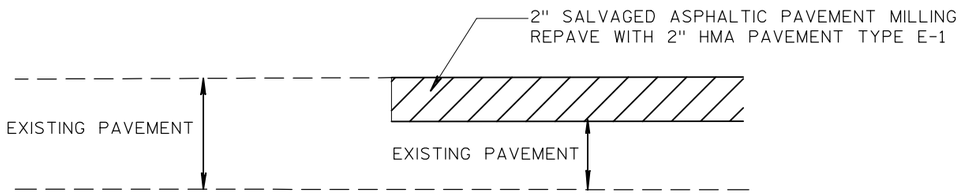


DETAIL OF CURB & GUTTER TERMINI

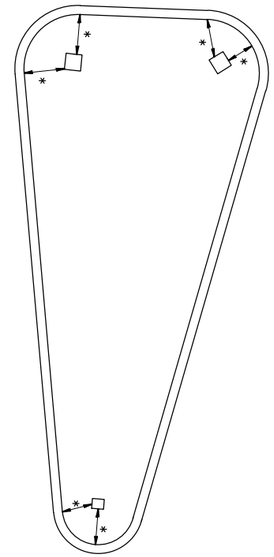
PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CONSTRUCTION DETAILS	SHEET 17	E

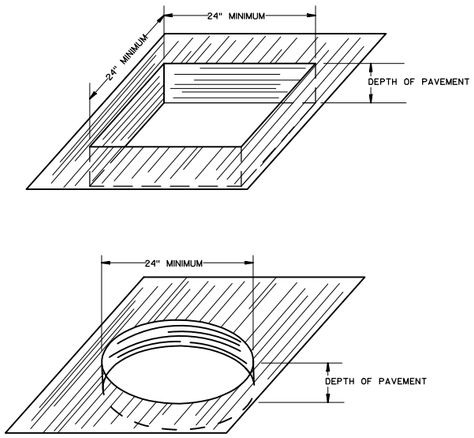


6" PERFORATED PIPE UNDERDRAIN (TYP.)



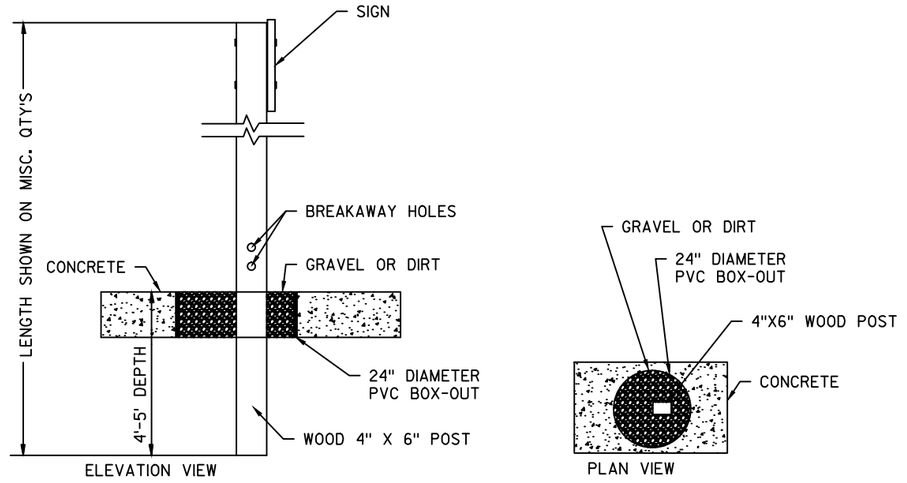
BUTT JOINT DETAIL





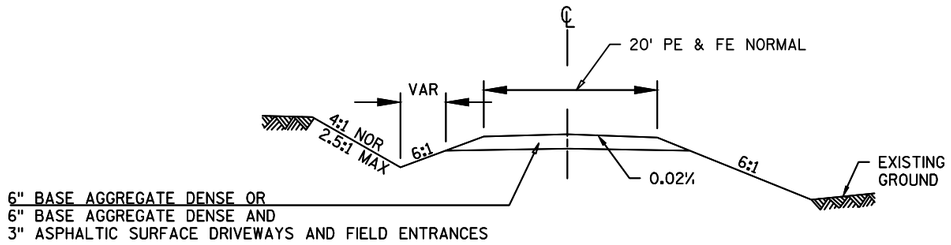
DETAIL OF OPENINGS IN ISLAND FOR SIGN PLACEMENT

* NOTE: ALL OPENINGS IN ISLAND FOR SIGN PLACEMENTS SHALL BE DETERMINED BY POST SIZE. A 2' MINIMUM FROM BACK OF CURB IS REQUIRED.

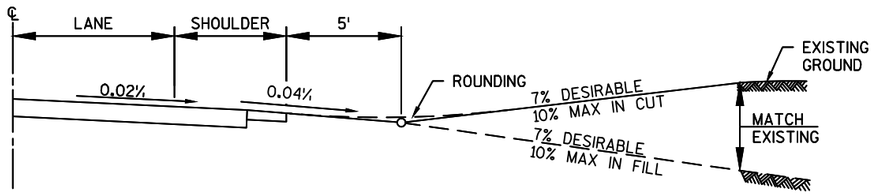


DETAIL OF WOOD 4" X 6" SIGN POST IN BOX-OUT

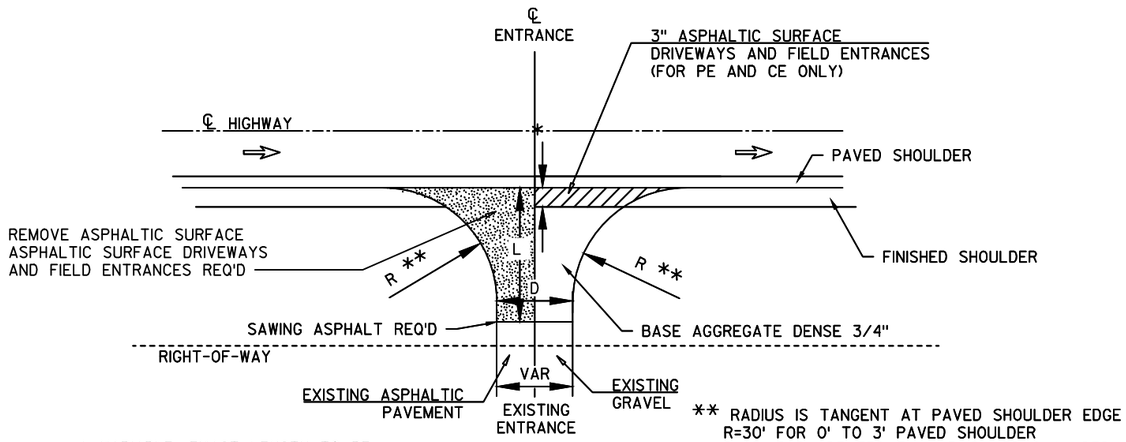
NOTES: 1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION.
2. 24 INCH X 24 INCH SQUARE BOX-OUTS MAY BE USED.



TYPICAL CROSS SECTION



TYPICAL PROFILE VIEW



PLAN VIEW

RURAL DRIVEWAY INTERSECTION
(PE, FE & CE)
(FOR NEW CONSTRUCTION)

2

2

STH 73

N

137.5'

337.5'

USH 151 SB

USH 151 SB

12'

3'

12'

12'

3'

12'

USH 151 NB

USH 151 NB

337.5'

137.5'

STH 73

ENGINEER TO DETERMINE EXACT LAYOUT OF
CONCRETE BARRIER TEMPORARY AND STEEL THRIE
BEAM BULLNOSE TERMINALS IN FIELD.

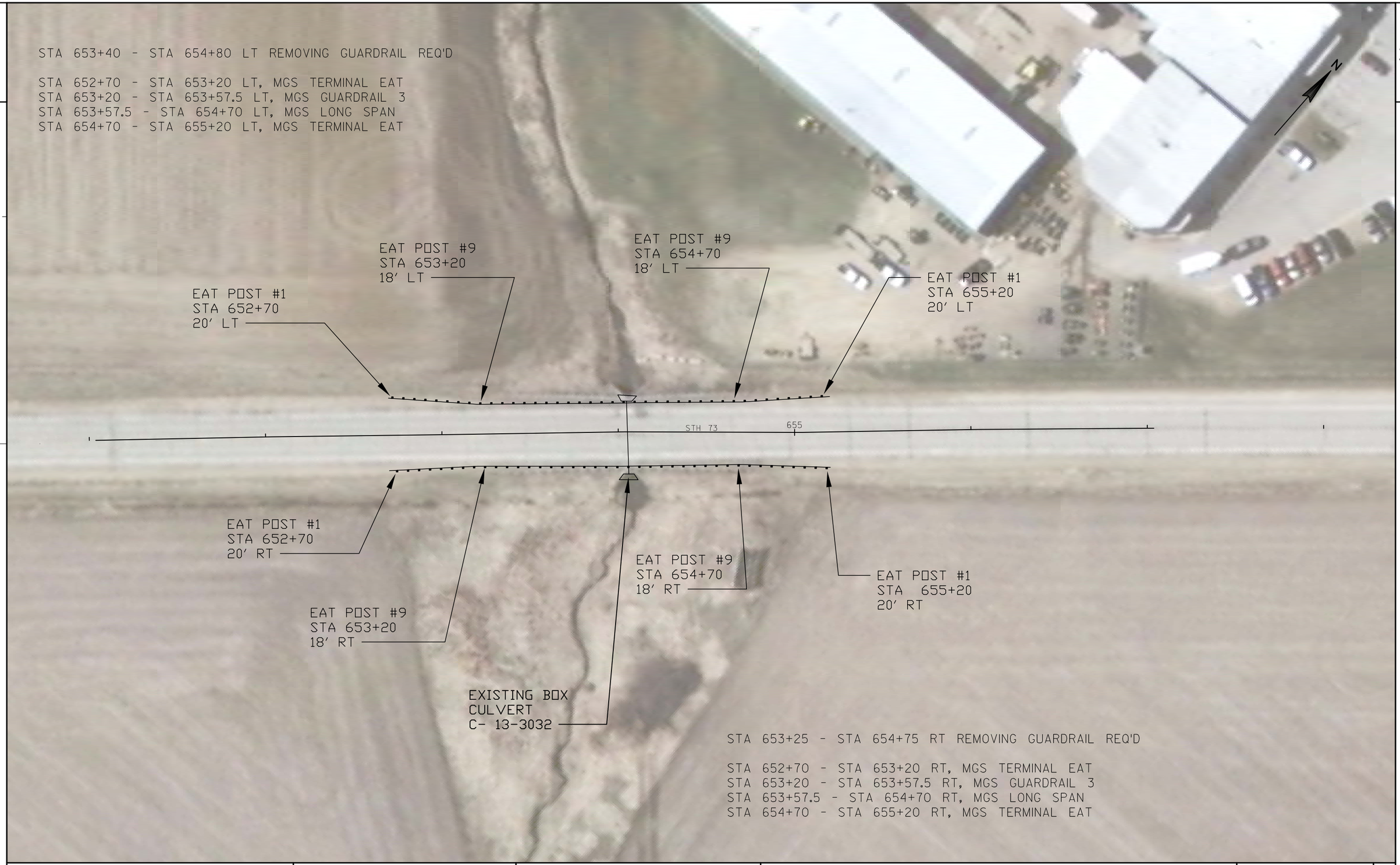
LENGTH OF CONCRETE BARRIER WILL VARY
DEPENDING ON CONTRACTOR'S WORK ZONE.

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	BULLNOSE LAYOUT	SHEET 20	E

2

STA 653+40 - STA 654+80 LT REMOVING GUARDRAIL REQ'D

STA 652+70 - STA 653+20 LT, MGS TERMINAL EAT
STA 653+20 - STA 653+57.5 LT, MGS GUARDRAIL 3
STA 653+57.5 - STA 654+70 LT, MGS LONG SPAN
STA 654+70 - STA 655+20 LT, MGS TERMINAL EAT

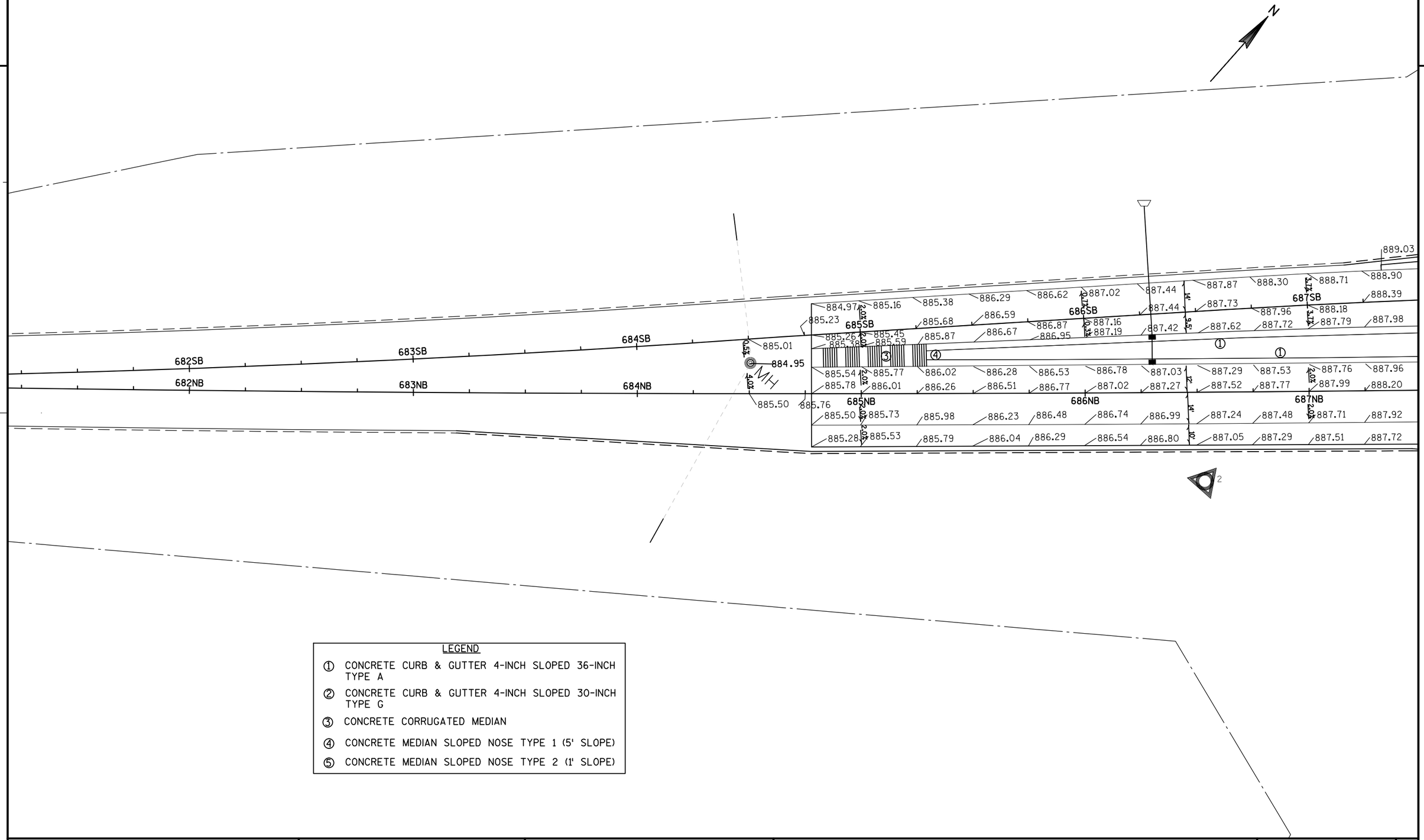


STA 653+25 - STA 654+75 RT REMOVING GUARDRAIL REQ'D

STA 652+70 - STA 653+20 RT, MGS TERMINAL EAT
STA 653+20 - STA 653+57.5 RT, MGS GUARDRAIL 3
STA 653+57.5 - STA 654+70 RT, MGS LONG SPAN
STA 654+70 - STA 655+20 RT, MGS TERMINAL EAT

PROJECT NO: 3060-02-62	HWY: STH 73	COUNTY: COLUMBIA	CONSTRUCTION DETAILS - CULVERT BEAM GUARD	SHEET _____	E

2



LEGEND

① CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A

② CONCRETE CURB & GUTTER 4-INCH SLOPED 30-INCH TYPE G

③ CONCRETE CORRUGATED MEDIAN

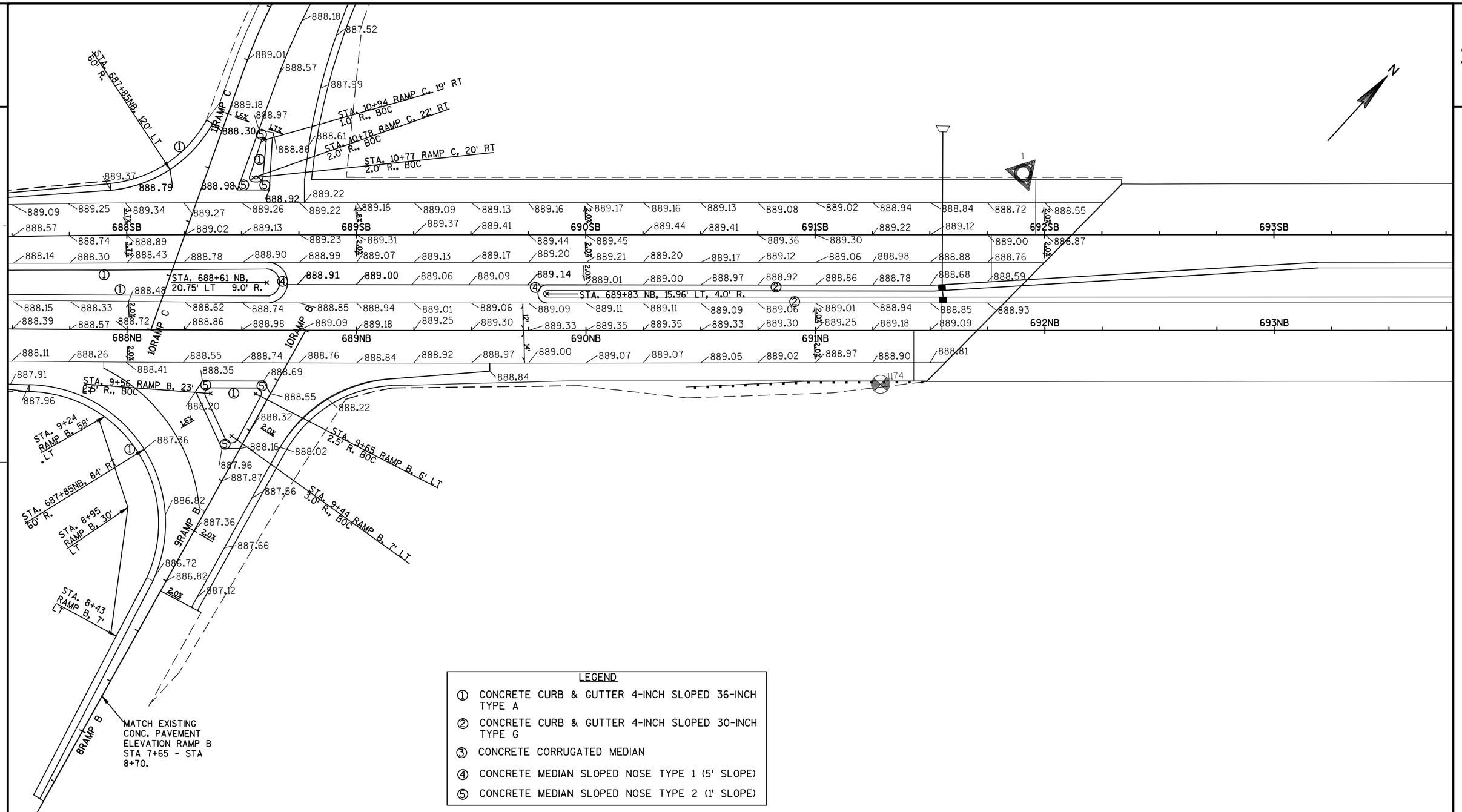
④ CONCRETE MEDIAN SLOPED NOSE TYPE 1 (5' SLOPE)

⑤ CONCRETE MEDIAN SLOPED NOSE TYPE 2 (1' SLOPE)

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CONCRETE PAVEMENT GRADES	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\06-INTERSECTION DETAILS\PLAN DETAILS-PAVEMENT GRADES.DWG PLOT DATE : 4/30/2014 12:49 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



LEGEND

① CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A

② CONCRETE CURB & GUTTER 4-INCH SLOPED 30-INCH TYPE G

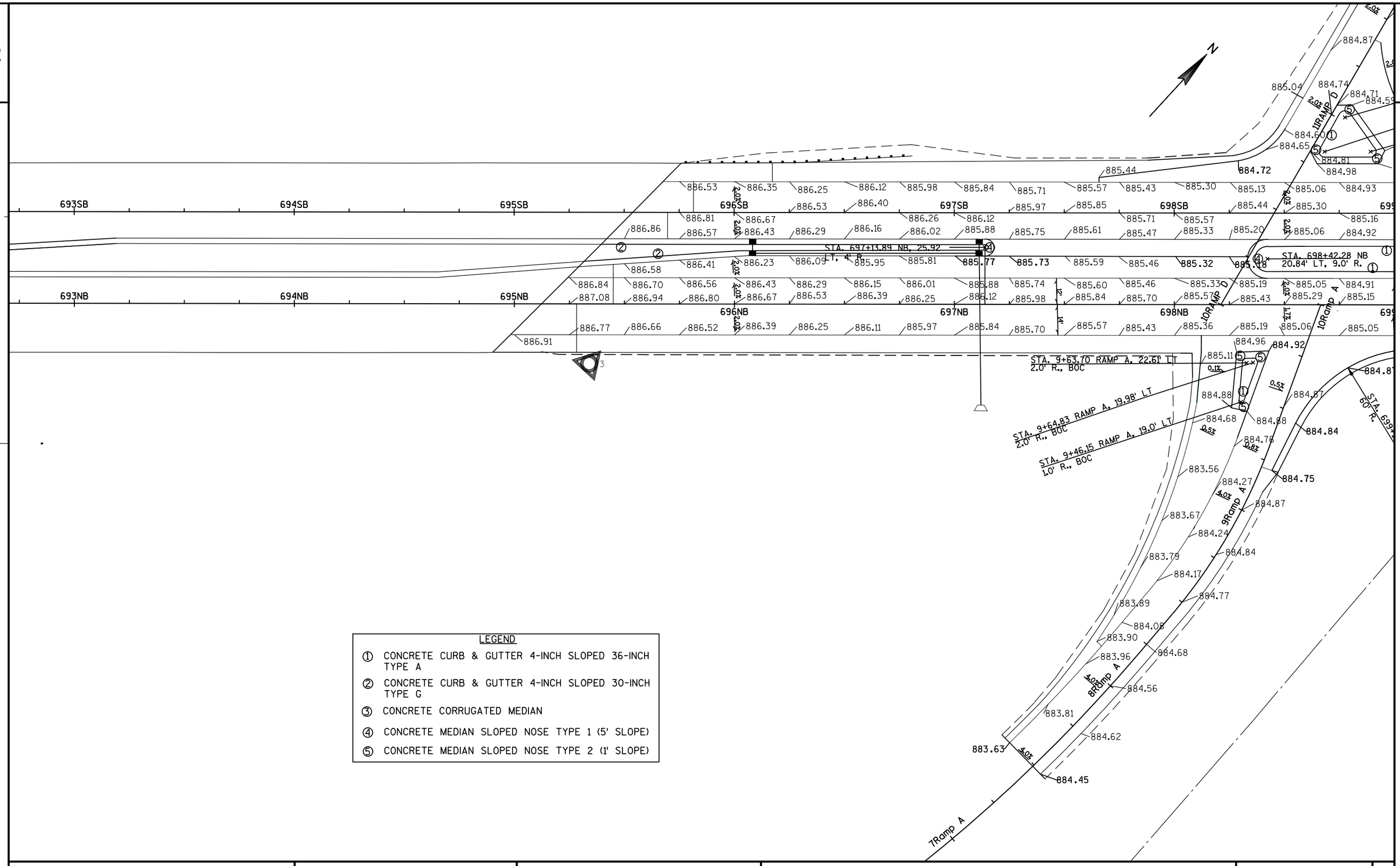
③ CONCRETE CORRUGATED MEDIAN

④ CONCRETE MEDIAN SLOPED NOSE TYPE 1 (5' SLOPE)

⑤ CONCRETE MEDIAN SLOPED NOSE TYPE 2 (1' SLOPE)

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CONCRETE PAVEMENT GRADES	SHEET 23	E

2



LEGEND

① CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A

② CONCRETE CURB & GUTTER 4-INCH SLOPED 30-INCH TYPE G

③ CONCRETE CORRUGATED MEDIAN

④ CONCRETE MEDIAN SLOPED NOSE TYPE 1 (5' SLOPE)

⑤ CONCRETE MEDIAN SLOPED NOSE TYPE 2 (1' SLOPE)

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CONCRETE PAVEMENT GRADES	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\06-INTERSECTION DETAILS\PLAN DETAILS-PAVEMENT GRADES.DWG PLOT DATE : 4/30/2014 12:49 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

STA. 12+17.88 RAMP D, 8.1' LT

STA. 12+12.7 RAMP D, 8.12' LT

STA. 11+46.95 RAMP D, 35.6' LT

STA. 10+94 RAMP C, 19' RT 3.0' R., BOC

STA. 699+69NB, 126' LT 60' R.

STA. 10+94 RAMP C, 19' RT 2.5' R., BOC

STA. 10+94 RAMP C, 19' RT 2.5' R., BOC

STA. 11+25.77 RAMP D, 60.5' LT

STA. 698+42.28 NB 20.84' LT, 9.0' R.

STA. 699+10NB, 80' RT 60' R.

699SB 700SB 701SB 702SB 703SB 704SB

699NB 700NB 701NB 702NB 703NB 704NB

12RAMP D

11RAMP D

10Ramp A

LEGEND

① CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A

② CONCRETE CURB & GUTTER 4-INCH SLOPED 30-INCH TYPE G

③ CONCRETE CORRUGATED MEDIAN

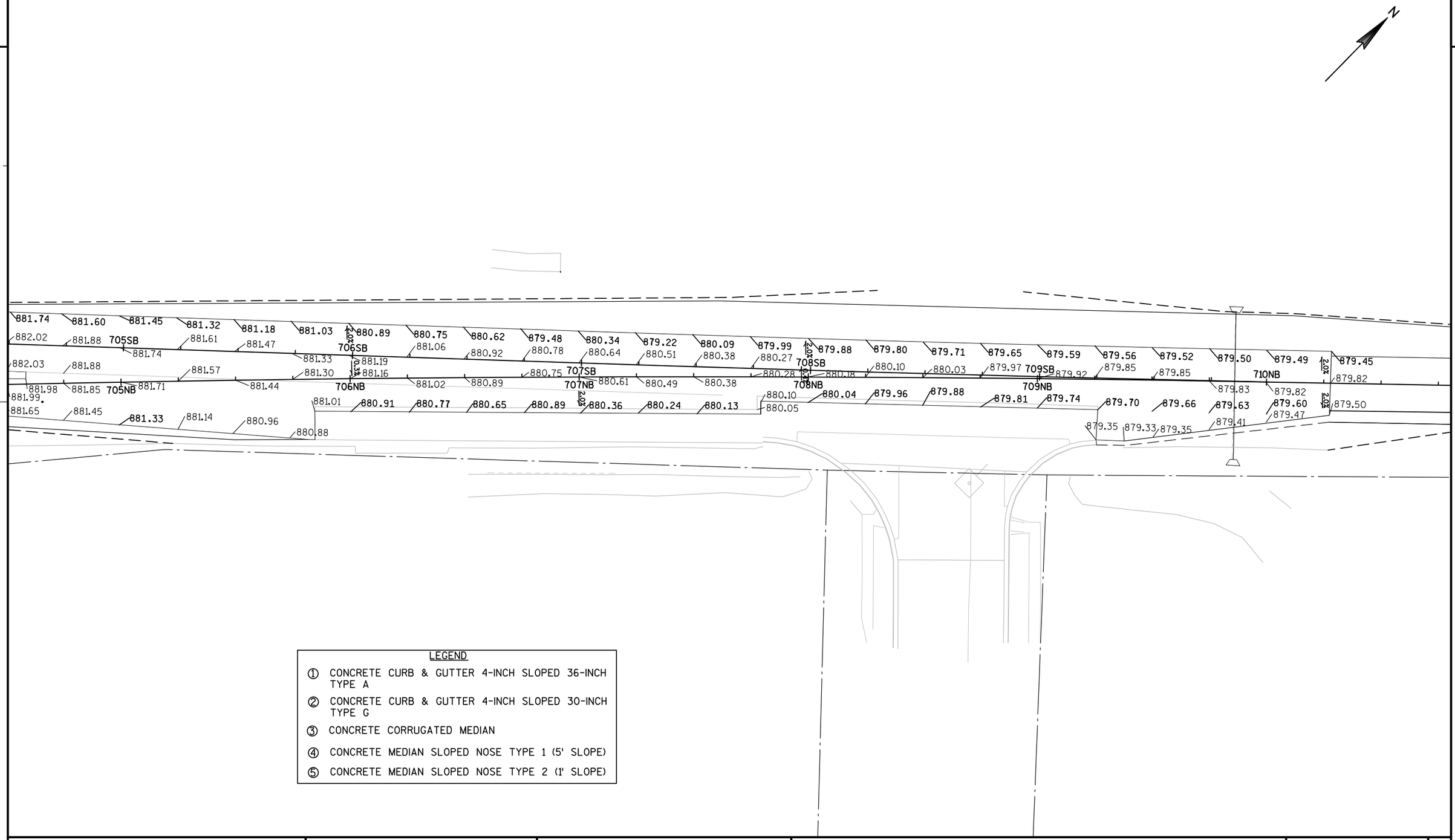
④ CONCRETE MEDIAN SLOPED NOSE TYPE 1 (5' SLOPE)

⑤ CONCRETE MEDIAN SLOPED NOSE TYPE 2 (1' SLOPE)

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CONCRETE PAVEMENT GRADES	SHEET 25	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\06-INTERSECTION DETAILS\PLAN DETAILS-PAVEMENT GRADES.DWG PLOT DATE : 4/30/2014 12:49 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



LEGEND

① CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A

② CONCRETE CURB & GUTTER 4-INCH SLOPED 30-INCH TYPE G

③ CONCRETE CORRUGATED MEDIAN

④ CONCRETE MEDIAN SLOPED NOSE TYPE 1 (5' SLOPE)

⑤ CONCRETE MEDIAN SLOPED NOSE TYPE 2 (1' SLOPE)

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CONCRETE PAVEMENT GRADES	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\06-INTERSECTION DETAILS\PLAN DETAILS-PAVEMENT GRADES.DWG PLOT DATE : 4/30/2014 12:49 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

14RAMP C

14RAMP C

14RAMP C

885.41

3.12%

885.99

884.86

13RAMP C

886.53

3.82%

885.43

887.02

885.95

887.46

886.34

886.86

886.66

887.86

887.24

886.92

12RAMP C

888.22

3.9%

887.62

3.9%

887.18

888.52

887.90

887.37

888.79

888.18

887.52

889.01

888.57

887.99

STA. 687+85NB, 120' LT
60' R.

11RAMP C

889.18

1.62%

888.97

888.30

1.7%

888.61

888.86

STA. 10+94 RAMP C, 19' RT
1.0' R., BOC

STA. 10+78 RAMP C, 22' RT
2.0' R., BOC

STA. 10+77 RAMP C, 20' RT
2.0' R., BOC

889.03

889.37

888.79

888.98

① ⑤ ⑤

① ⑤

LEGEND

① CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A

② CONCRETE CURB & GUTTER 4-INCH SLOPED 30-INCH TYPE G

③ CONCRETE CORRUGATED MEDIAN

④ CONCRETE MEDIAN SLOPED NOSE TYPE 1 (5' SLOPE)

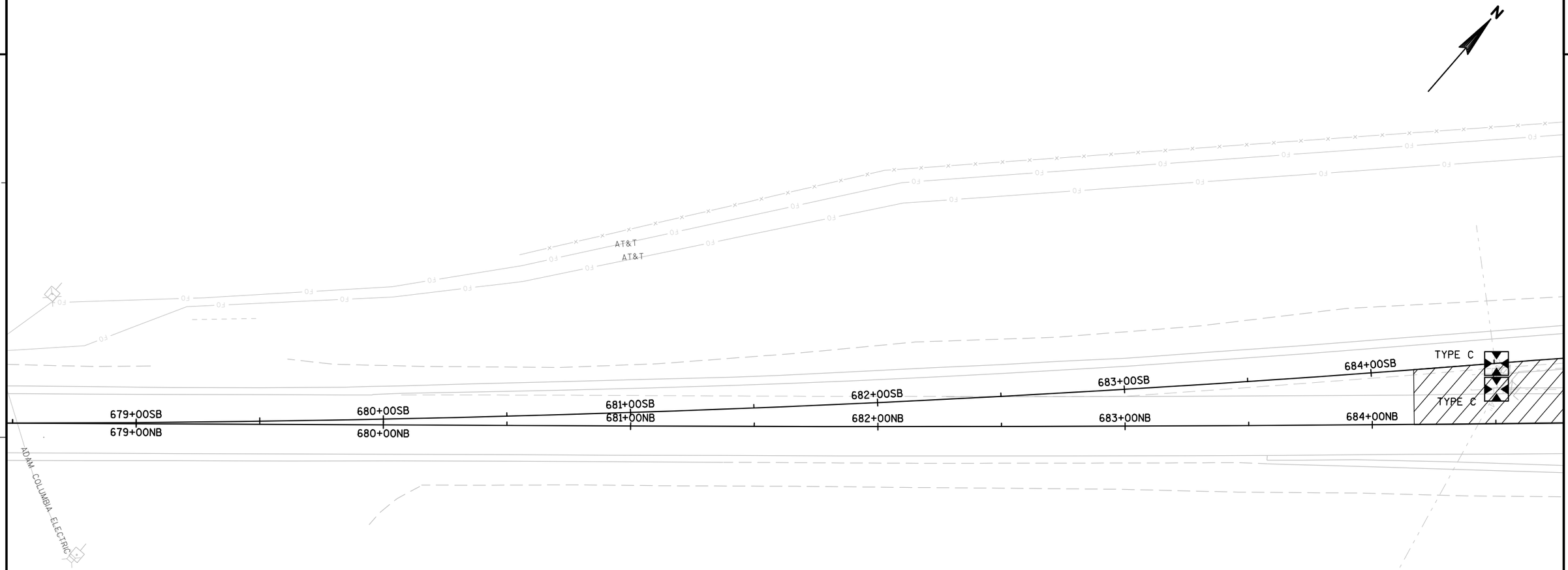
⑤ CONCRETE MEDIAN SLOPED NOSE TYPE 2 (1' SLOPE)

1

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CONCRETE PAVEMENT GRADES	SHEET 27	E

2

2



LEGEND

- INLET PROTECTION, TYPE
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECKS
- EROSION MAT CLASS I, TYPE B
- RIPRAP MEDIUM
- PERIMETER CONTROL LOGS
- WORK ZONE

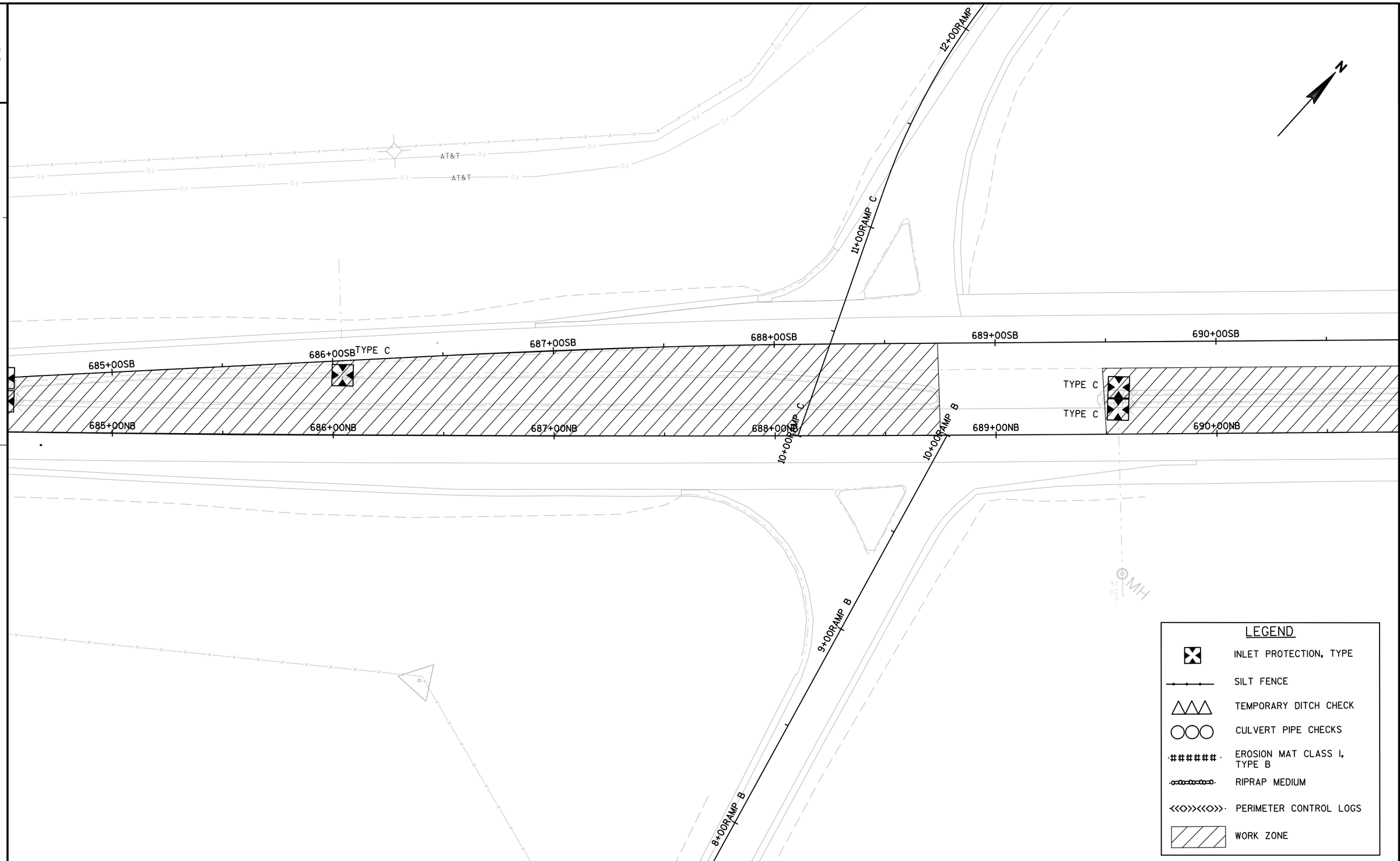
PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	EROSION CONTROL - STAGE 1	SHEET 28	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\07-EROSION CONTROL\022001_EC - STAGE 1 EROSION CONTROL.DWG PLOT DATE : 5/14/2014 12:47 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

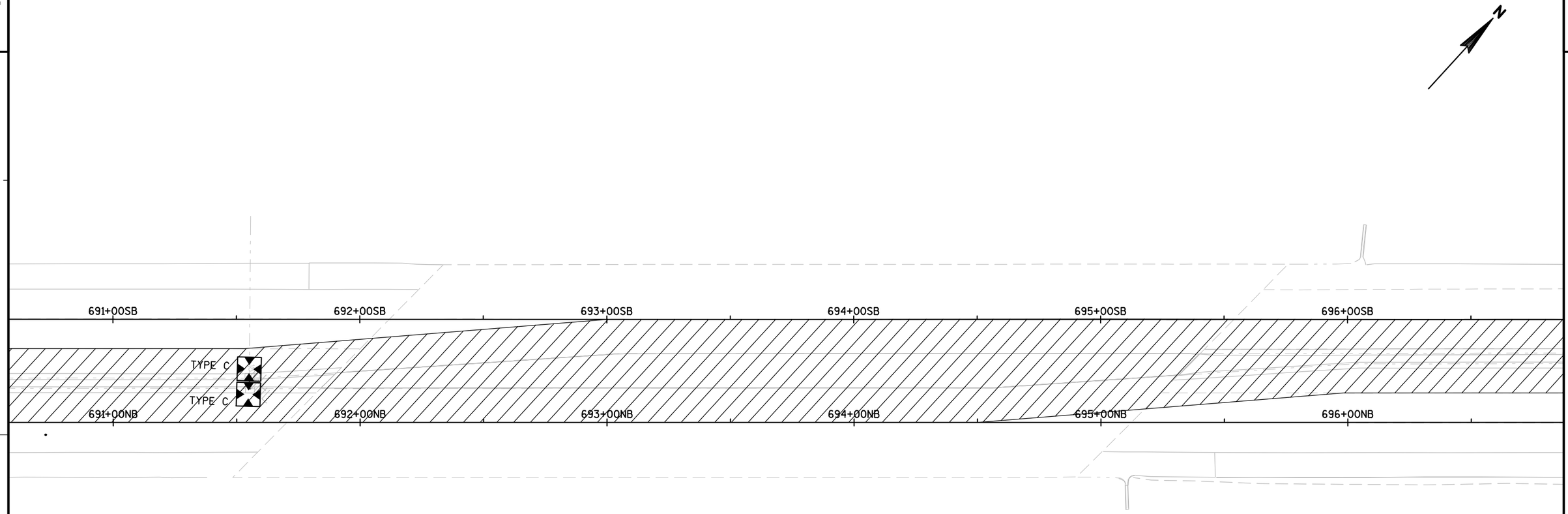


PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	EROSION CONTROL - STAGE 1	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\07-EROSION CONTROL\022001_EC - STAGE 1 EROSION CONTROL.DWG PLOT DATE : 5/14/2014 12:47 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2



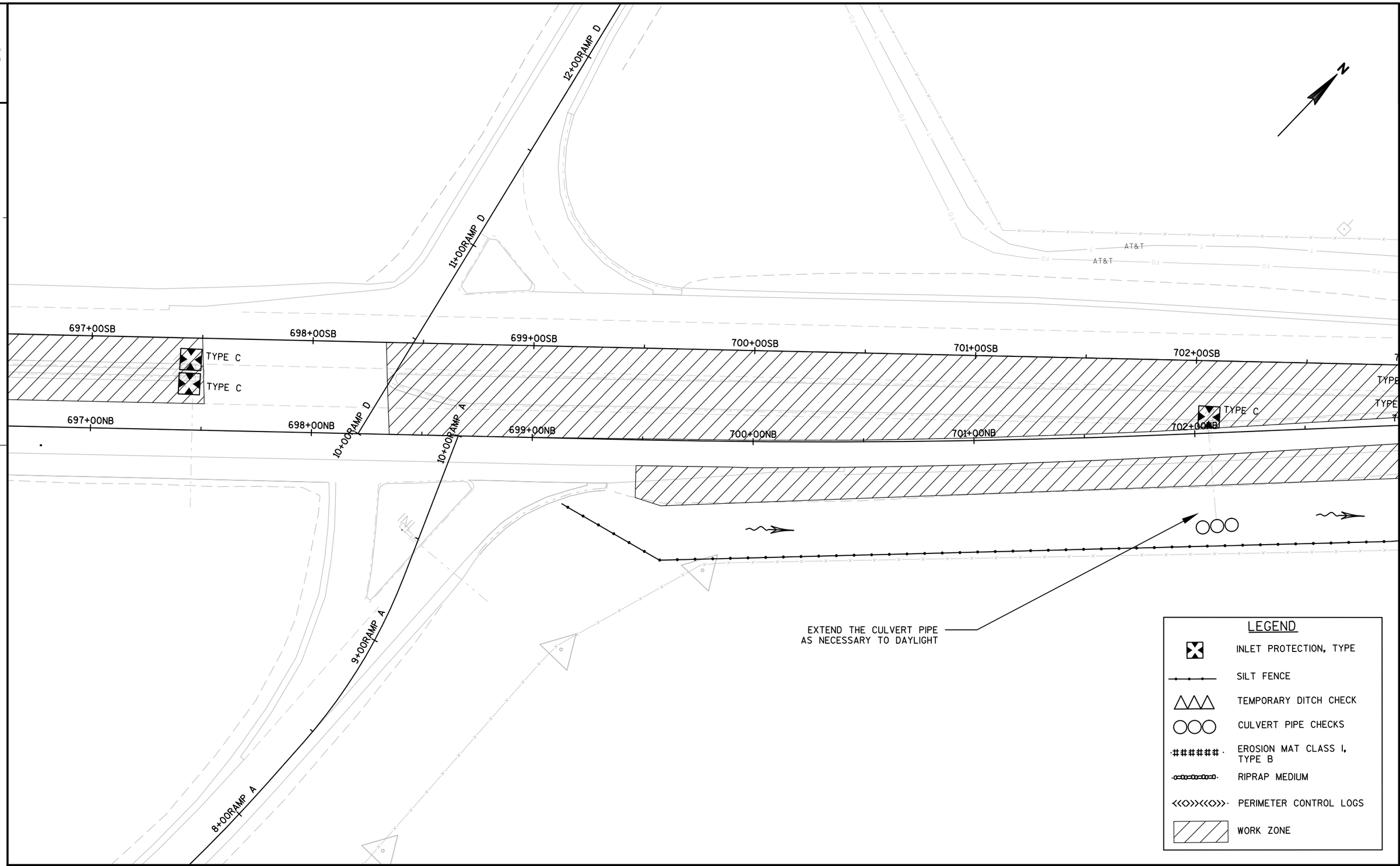
LEGEND

- INLET PROTECTION, TYPE
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECKS
- EROSION MAT CLASS I, TYPE B
- RIPRAP MEDIUM
- PERIMETER CONTROL LOGS
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	EROSION CONTROL - STAGE 1	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\07-EROSION CONTROL\022001_EC - STAGE 1 EROSION CONTROL.DWG PLOT DATE : 5/14/2014 12:47 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	EROSION CONTROL - STAGE 1	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\07-EROSION CONTROL\022001_EC - STAGE 1 EROSION CONTROL.DWG PLOT DATE : 5/14/2014 12:47 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

703+00SB
704+00SB
705+00SB
706+00SB
707+00SB
708+00SB
709
703+00NB
704+00NB
705+00NB
706+00NB
707+00NB
708+00NB
709

TYPE C
TYPE C

EXISTING ASPHALT
EXISTING ASPHALT
EXISTING ASPHALT
EXISTING CONCRETE
EXISTING CONCRETE

AT&T
COLUMBUS ELEC.
COLUMBUS ELEC.

EXTEND CULVERT PIPE
AS NECESSARY TO DAYLIGHT

LEGEND

- INLET PROTECTION, TYPE
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECKS
- EROSION MAT CLASS I, TYPE B
- RIPRAP MEDIUM
- PERIMETER CONTROL LOGS
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	EROSION CONTROL - STAGE 1	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\07-EROSION CONTROL\022001_EC - STAGE 1 EROSION CONTROL.DWG PLOT DATE : 5/14/2014 12:47 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

WE ENERGIES

AT&T

AT&T

EXISTING ASPHALT

709+00SB

709+00NB

710+00NB

711+00NB

712+00NB

713+00NB

714+00NB

715+0

EXISTING ASPHALT

AT&T

COLUMBUS ELEC.

COLUMBUS WATER

LEGEND

- INLET PROTECTION, TYPE
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECKS
- EROSION MAT CLASS I, TYPE B
- RIPRAP MEDIUM
- PERIMETER CONTROL LOGS
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	EROSION CONTROL - STAGE 1	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\07-EROSION CONTROL\022001_EC - STAGE 1 EROSION CONTROL.DWG PLOT DATE : 5/14/2014 12:47 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

AT&T

WE ENERGIES

AT&T

715+00NB | 716+00NB | 717+00NB | 718+00NB | 719+00NB | 720+00NB | 721+00N

AT&T

COLUMBUS ELEC.

AT&T

COLUMBUS WATER

ATC

ATC

LEGEND

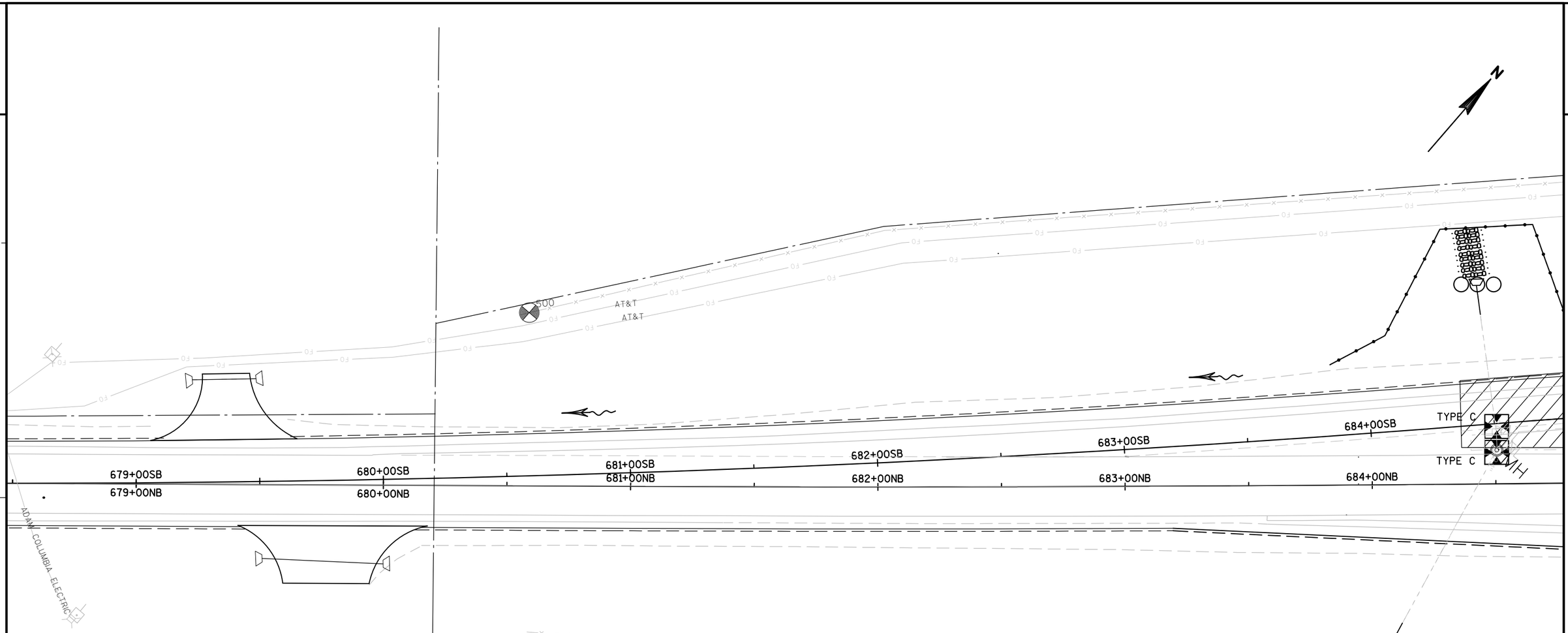
- INLET PROTECTION, TYPE
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECKS
- EROSION MAT CLASS I, TYPE B
- RIPRAP MEDIUM
- PERIMETER CONTROL LOGS
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	EROSION CONTROL - STAGE 1	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\07-EROSION CONTROL\022001_EC - STAGE 1 EROSION CONTROL.DWG PLOT DATE : 5/14/2014 12:47 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2



LEGEND

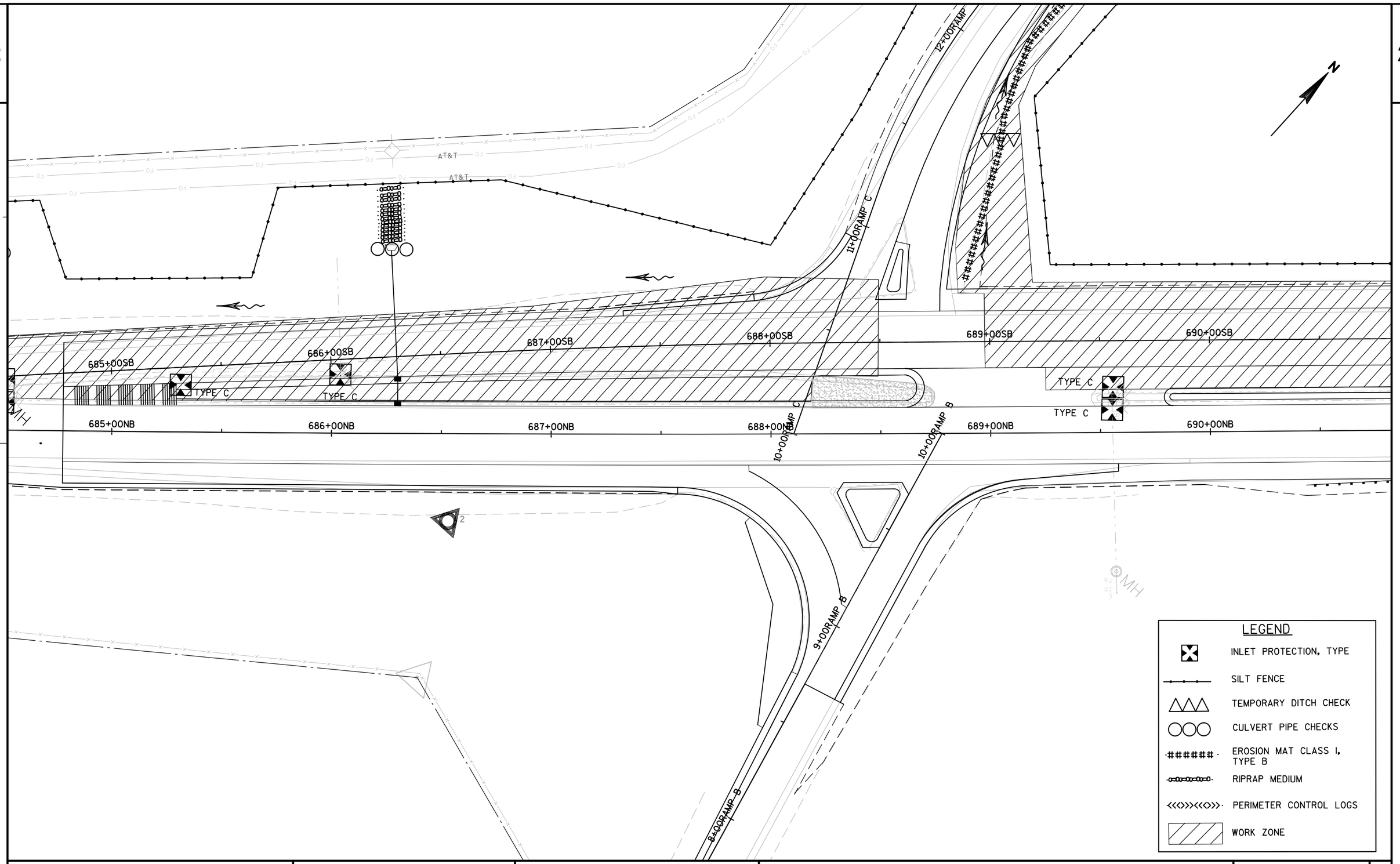
- INLET PROTECTION, TYPE
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECKS
- EROSION MAT CLASS I, TYPE B
- RIPRAP MEDIUM
- PERIMETER CONTROL LOGS
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	EROSION CONTROL - STAGE 2	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\07-EROSION CONTROL\022002_EC - STAGE 2 EROSION CONTROL.DWG PLOT DATE : 5/14/2014 12:53 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	EROSION CONTROL - STAGE 2	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\07-EROSION CONTROL\022002_EC - STAGE 2 EROSION CONTROL.DWG PLOT DATE : 5/14/2014 12:53 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

691+00SB 692+00SB 693+00SB 694+00SB 695+00SB 696+00SB

TYPE C

TYPE C

691+00NB 692+00NB 693+00NB 694+00NB 695+00NB 696+00NB

1

1174

3

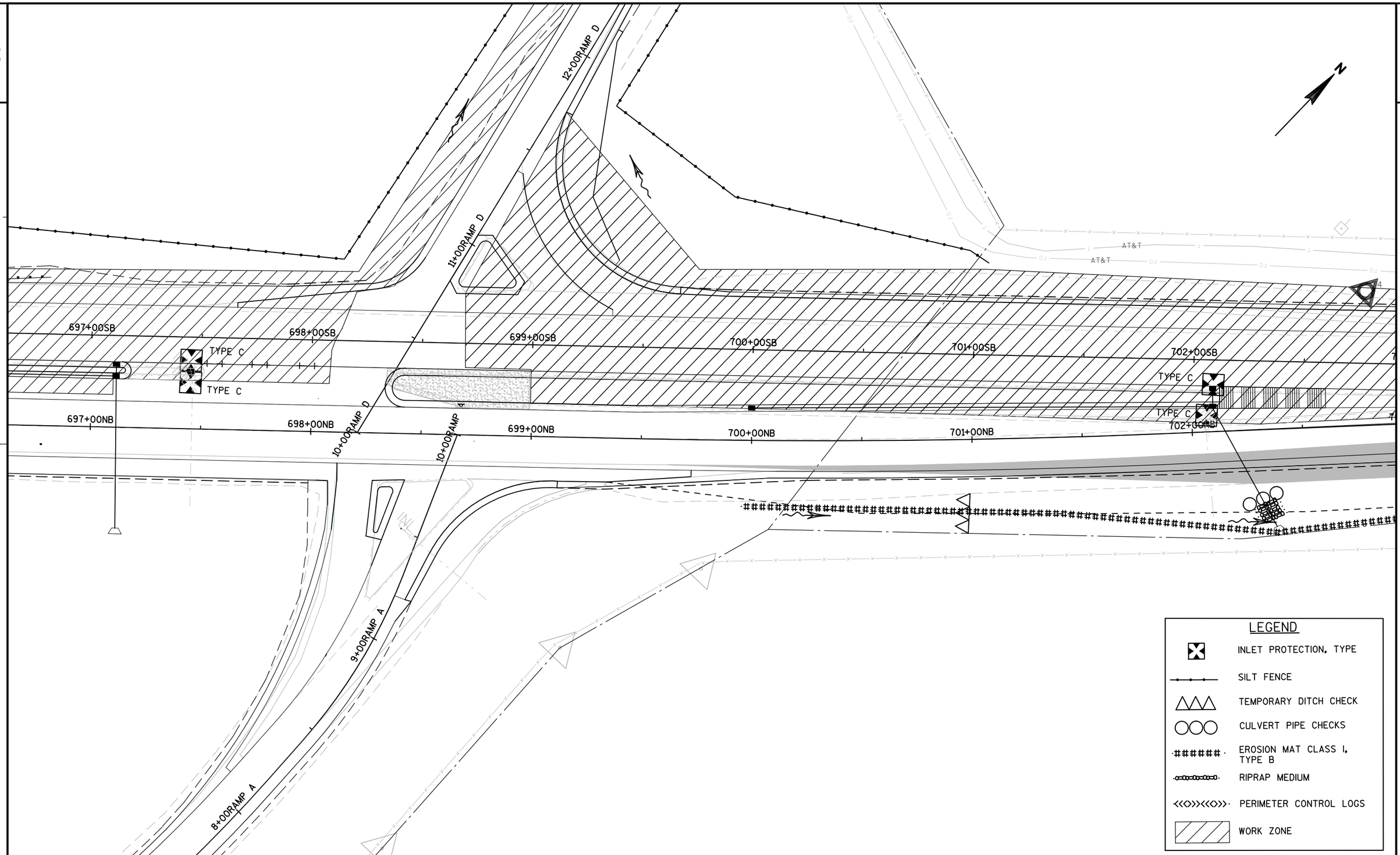
LEGEND

- INLET PROTECTION, TYPE
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECKS
- EROSION MAT CLASS I, TYPE B
- RIPRAP MEDIUM
- PERIMETER CONTROL LOGS
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	EROSION CONTROL - STAGE 2	SHEET 37	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\07-EROSION CONTROL\022002_EC - STAGE 2 EROSION CONTROL.DWG PLOT DATE : 5/14/2014 12:53 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	EROSION CONTROL - STAGE 2	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\07-EROSION CONTROL\022002_EC - STAGE 2 EROSION CONTROL.DWG PLOT DATE : 5/14/2014 12:53 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

AT&T

703+00SB

704+00SB

705+00SB

706+00SB

707+00SB

708+00SB

703+00NB

704+00NB

705+00NB

706+00NB

707+00NB

708+00NB

709

EXISTING ASPHALT

EXISTING CONCRETE

EXISTING CONCRETE

COLUMBUS ELEC.

501

COLUMBUS ELEC.

LEGEND

- INLET PROTECTION, TYPE
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECKS
- EROSION MAT CLASS I, TYPE B
- RIPRAP MEDIUM
- PERIMETER CONTROL LOGS
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	EROSION CONTROL - STAGE 2	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\07-EROSION CONTROL\022002_EC - STAGE 2 EROSION CONTROL.DWG PLOT DATE : 5/14/2014 12:53 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

WE ENERGIES

AT&T

AT&T

709+00SB

709+00NB

710+00NB

711+00NB

712+00NB

713+00NB

714+00NB

715+0

EXISTING ASPHALT

502

COLUMBUS ELEC.

AT&T

COLUMBUS WATER

LEGEND

- INLET PROTECTION, TYPE
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECKS
- EROSION MAT CLASS I, TYPE B
- RIPRAP MEDIUM
- PERIMETER CONTROL LOGS
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	EROSION CONTROL - STAGE 2	SHEET 40	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\07-EROSION CONTROL\022002_EC - STAGE 2 EROSION CONTROL.DWG PLOT DATE : 5/14/2014 12:53 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

AT&T

WE ENERGIES

AT&T

715+00NB

716+00NB

717+00NB

718+00NB

719+00NB

720+00NB

721+00N

AT&T

COLUMBUS ELEC.

AT&T

COLUMBUS WATER

ATC

ATC

LEGEND

- INLET PROTECTION, TYPE
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECKS
- EROSION MAT CLASS I, TYPE B
- RIPRAP MEDIUM
- PERIMETER CONTROL LOGS
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	EROSION CONTROL - STAGE 2	SHEET 41	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\07-EROSION CONTROL\022002_EC - STAGE 2 EROSION CONTROL.DWG PLOT DATE : 5/14/2014 12:53 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

AT&T

14+00RAMP C 14+32RA

13+00RAMP C

12+00RAMP C

11+00RAMP C

10+00RAMP C

10+00RAMP B

688+00SB

689+00SB

690+00SB

691+00SB

692+00SB

693+00SB

688+00NB

689+00NB

690+00NB

691+00NB

692+00NB

693+00NB

TYPE C

TYPE C

TYPE C

TYPE C

1174

1

LEGEND

- INLET PROTECTION, TYPE
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECKS
- EROSION MAT CLASS I, TYPE B
- RIPRAP MEDIUM
- PERIMETER CONTROL LOGS
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	EROSION CONTROL - STAGE 2	SHEET 42	E

2

2

13+78RAMP D

13+00RAMP D

12+00RAMP D

11+00RAMP D

10+00RAMP D

10+00RAMP

AT&T

AT&T

AT&T

AT&T

697+00SB

698+00SB

699+00SB

700+00SB

701+00SB

702+00SB

697+00NB

698+00NB

699+00NB

700+00NB

701+00NB

702+00NB

TYPE C

TYPE C

TYPE C

TYPE C

N

LEGEND

- INLET PROTECTION, TYPE
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECKS
- EROSION MAT CLASS I, TYPE B
- RIPRAP MEDIUM
- PERIMETER CONTROL LOGS
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	EROSION CONTROL - STAGE 2	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\07-EROSION CONTROL\022002_EC - STAGE 2 EROSION CONTROL.DWG PLOT DATE : 5/14/2014 12:54 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

AT&T

AT&T

AT&T

AT&T

679+00SB

679+00NB

680+00SB

680+00NB

681+00SB

681+00NB

682+00SB

682+00NB

683+00SB

683+00NB

684+00SB

684+00NB

ADAM-COLUMBIA ELECTRIC

LEGEND

INLET PROTECTION, TYPE

SILT FENCE

TEMPORARY DITCH CHECK

CULVERT PIPE CHECKS

EROSION MAT CLASS I, TYPE B

RIPRAP MEDIUM

PERIMETER CONTROL LOGS

WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	EROSION CONTROL - STAGE 3	SHEET 44	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\07-EROSION CONTROL\022003_EC - STAGE 3 EROSION CONTROL.DWG PLOT DATE : 5/14/2014 1:33 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

AT&T

AT&T

685+00SB

686+00SB

687+00SB

688+00SB

689+00SB

690+00SB

TYPE C

685+00NB

686+00NB

687+00NB

688+00NB

689+00NB

690+00NB

11+00RAMP C

10+00RAMP C

10+00RAMP B

9+00RAMP B

8+00RAMP B

MH

N

LEGEND

- INLET PROTECTION, TYPE
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECKS
- EROSION MAT CLASS I, TYPE B
- RIPRAP MEDIUM
- PERIMETER CONTROL LOGS
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	EROSION CONTROL - STAGE 3	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\07-EROSION CONTROL\022003_EC - STAGE 3 EROSION CONTROL.DWG PLOT DATE : 5/14/2014 1:33 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

691+00SB

692+00SB

693+00SB

694+00SB

695+00SB

696+00SB

TYPE C

TYPE C

TYPE C

TYPE C

691+00NB

692+00NB

693+00NB

694+00NB

695+00NB

696+00NB

XXXX

LEGEND

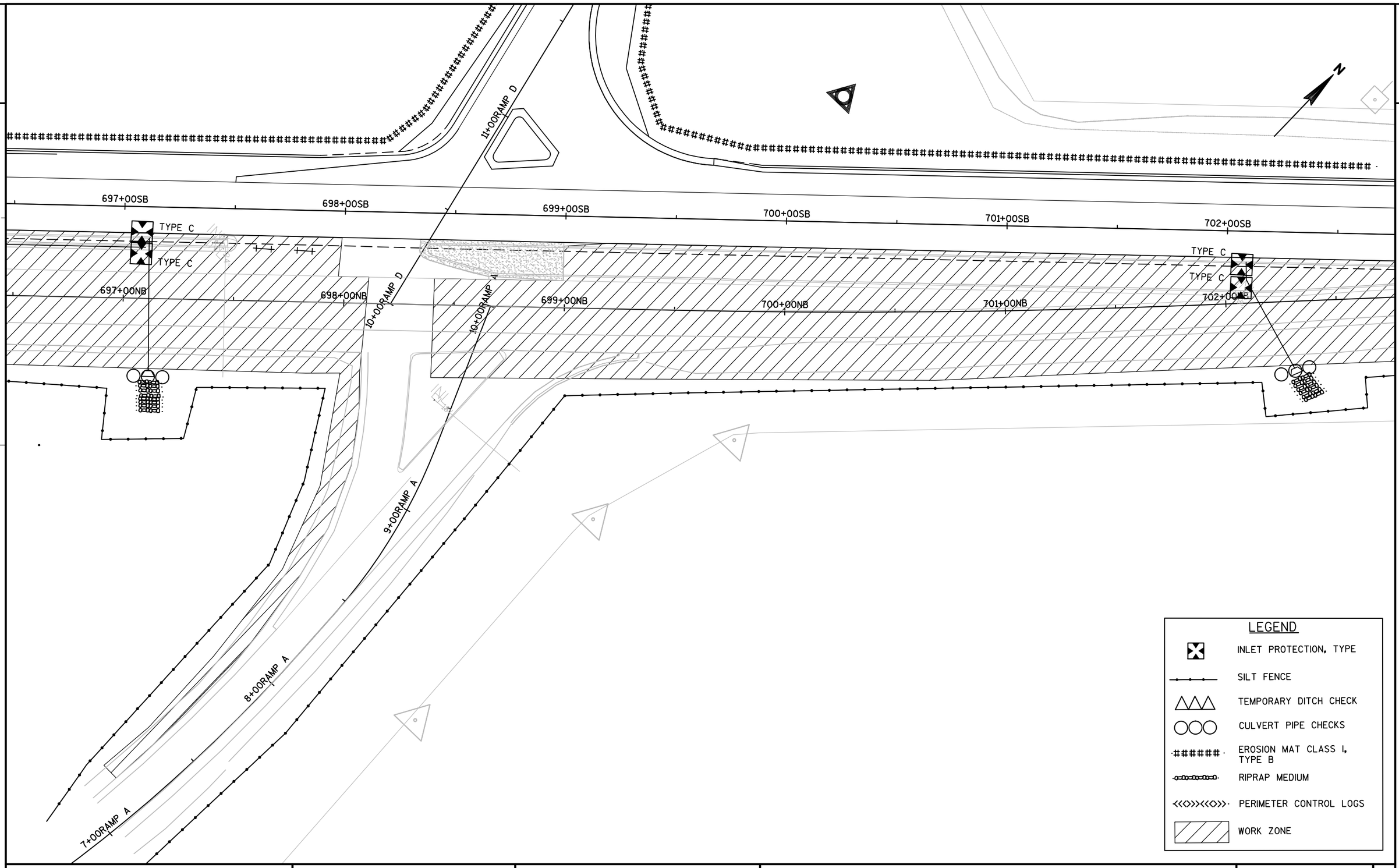
- INLET PROTECTION, TYPE
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECKS
- EROSION MAT CLASS I, TYPE B
- RIPRAP MEDIUM
- PERIMETER CONTROL LOGS
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	EROSION CONTROL - STAGE 3	SHEET 46	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\07-EROSION CONTROL\022003_EC - STAGE 3 EROSION CONTROL.DWG PLOT DATE : 5/14/2014 1:33 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



LEGEND

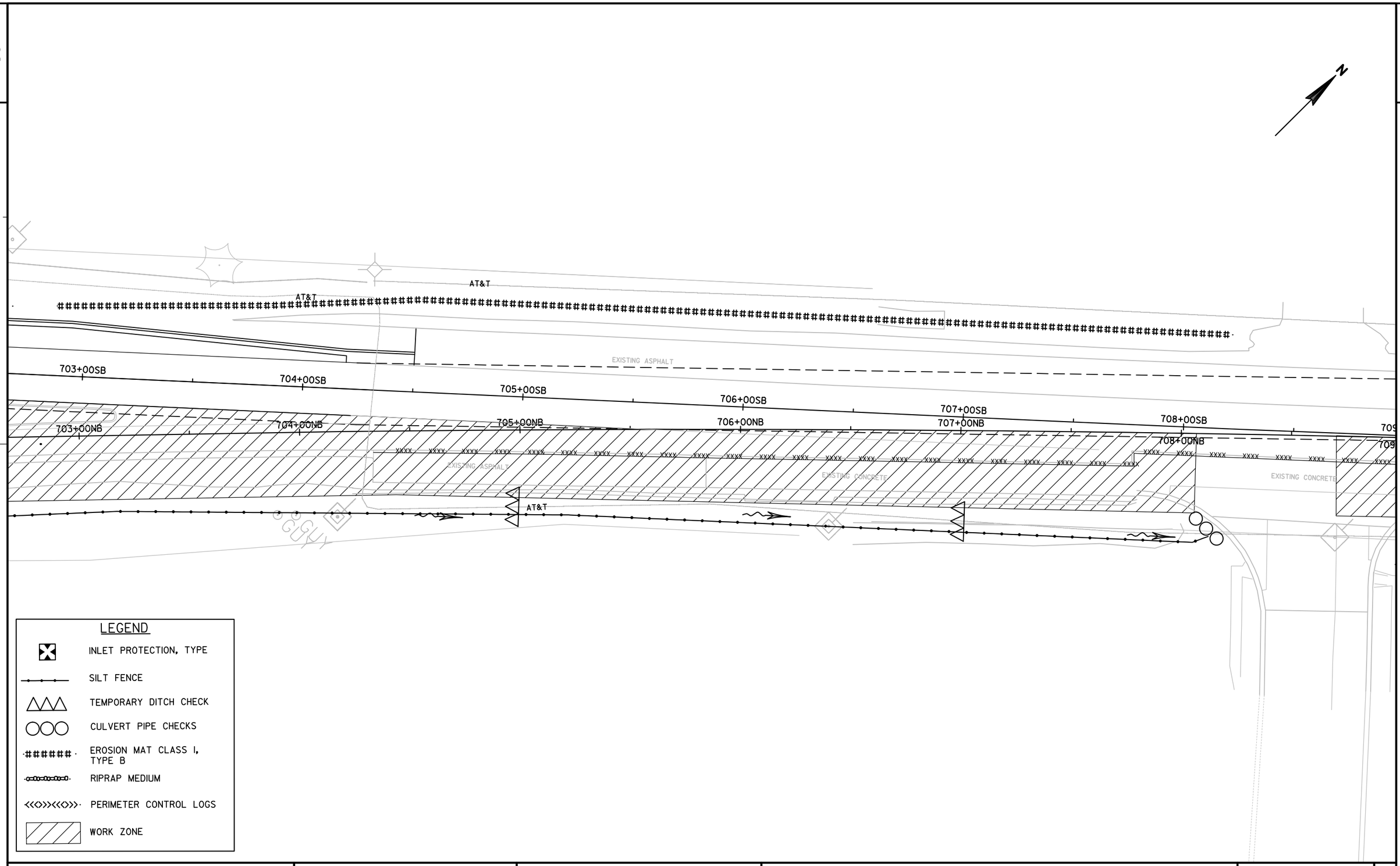
- INLET PROTECTION, TYPE
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECKS
- EROSION MAT CLASS I, TYPE B
- RIPRAP MEDIUM
- PERIMETER CONTROL LOGS
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	EROSION CONTROL - STAGE 3	SHEET 47	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\07-EROSION CONTROL\022003_EC - STAGE 3 EROSION CONTROL.DWG PLOT DATE : 5/14/2014 1:33 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2



LEGEND

- INLET PROTECTION, TYPE
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECKS
- EROSION MAT CLASS I, TYPE B
- RIPRAP MEDIUM
- PERIMETER CONTROL LOGS
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	EROSION CONTROL - STAGE 3	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\07-EROSION CONTROL\022003_EC - STAGE 3 EROSION CONTROL.DWG PLOT DATE : 5/14/2014 1:33 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

AT&T

EXISTING ASPHALT

EXISTING ASPHALT

709+00SB

709+00NB

710+00NB

711+00NB

712+00NB

713+00NB

714+00NB

715+0

AT&T

LEGEND

- INLET PROTECTION, TYPE
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECKS
- EROSION MAT CLASS I, TYPE B
- RIPRAP MEDIUM
- PERIMETER CONTROL LOGS
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	EROSION CONTROL - STAGE 3	SHEET 49	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\07-EROSION CONTROL\022003_EC - STAGE 3 EROSION CONTROL.DWG PLOT DATE : 5/14/2014 1:33 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

715+00NB 716+00NB 717+00NB 718+00NB 719+00NB 720+00NB 721+00N

LEGEND

- INLET PROTECTION, TYPE
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECKS
- EROSION MAT CLASS I, TYPE B
- RIPRAP MEDIUM
- PERIMETER CONTROL LOGS
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	EROSION CONTROL - STAGE 3	SHEET 50	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\07-EROSION CONTROL\022003_EC - STAGE 3 EROSION CONTROL.DWG PLOT DATE : 5/14/2014 1:33 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

PROJECT 3060-02-32
WORK TO BE DONE
CONCURRENT WITH STAGE 4

673+00NB

674+00NB

675+00NB

676+00NB

677+00NB

678+00NB

LEGEND

- INLET PROTECTION, TYPE
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECKS
- EROSION MAT CLASS I, TYPE B
- RIPRAP MEDIUM
- PERIMETER CONTROL LOGS
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	EROSION CONTROL - STAGE 4	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\07-EROSION CONTROL\022004_EC - STAGE 4 EROSION CONTROL.DWG PLOT DATE : 5/14/2014 1:37 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

500

679+00SB
679+00NB
680+00SB
680+00NB
681+00SB
681+00NB
682+00SB
682+00NB
683+00SB
683+00NB
684+00SB
684+00NB
MH

LEGEND

- INLET PROTECTION, TYPE
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECKS
- EROSION MAT CLASS I, TYPE B
- RIPRAP MEDIUM
- PERIMETER CONTROL LOGS
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	EROSION CONTROL - STAGE 4	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\07-EROSION CONTROL\022004_EC - STAGE 4 EROSION CONTROL.DWG PLOT DATE : 5/14/2014 1:37 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

685+00SB
686+00SB
687+00SB
688+00SB
689+00SB
690+00SB
685+00NB
686+00NB
687+00NB
688+00NB
689+00NB
690+00NB
TYPE C
TYPE C
12+00RAMP
11+00RAMP C
10+00RAMP C
10+00RAMP B
9+00RAMP B
8+00RAMP B
N
2

LEGEND

- INLET PROTECTION, TYPE
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECKS
- EROSION MAT CLASS I, TYPE B
- RIPRAP MEDIUM
- PERIMETER CONTROL LOGS
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	EROSION CONTROL - STAGE 4	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\07-EROSION CONTROL\022004_EC - STAGE 4 EROSION CONTROL.DWG PLOT DATE : 5/14/2014 1:38 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

691+00SB

692+00SB

693+00SB

694+00SB

695+00SB

696+00SB

691+00NB

692+00NB

693+00NB

694+00NB

695+00NB

696+00NB

1

1174

3

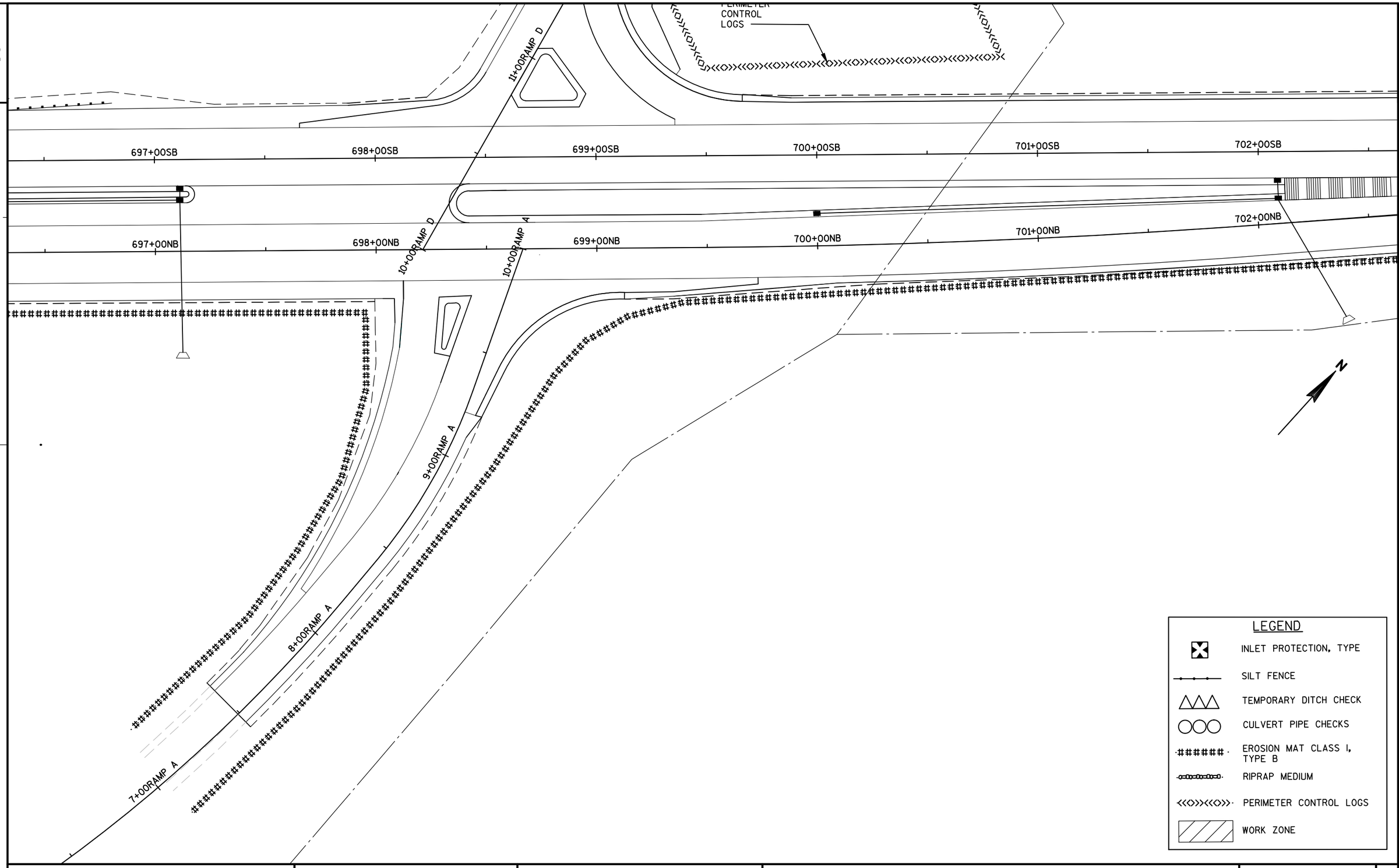
LEGEND

- INLET PROTECTION, TYPE
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECKS
- EROSION MAT CLASS I, TYPE B
- RIPRAP MEDIUM
- PERIMETER CONTROL LOGS
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	EROSION CONTROL - STAGE 4	SHEET 54	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\07-EROSION CONTROL\022004_EC - STAGE 4 EROSION CONTROL.DWG PLOT DATE : 5/14/2014 1:38 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	EROSION CONTROL - STAGE 4	SHEET 55	E

2

2

N

703+00SB
704+00SB
705+00SB
706+00SB
707+00SB
708+00SB
703+00NB
704+00NB
705+00NB
706+00NB
707+00NB
708+00NB

4

501

LEGEND

- INLET PROTECTION, TYPE
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECKS
- EROSION MAT CLASS I, TYPE B
- RIPRAP MEDIUM
- PERIMETER CONTROL LOGS
- WORK ZONE

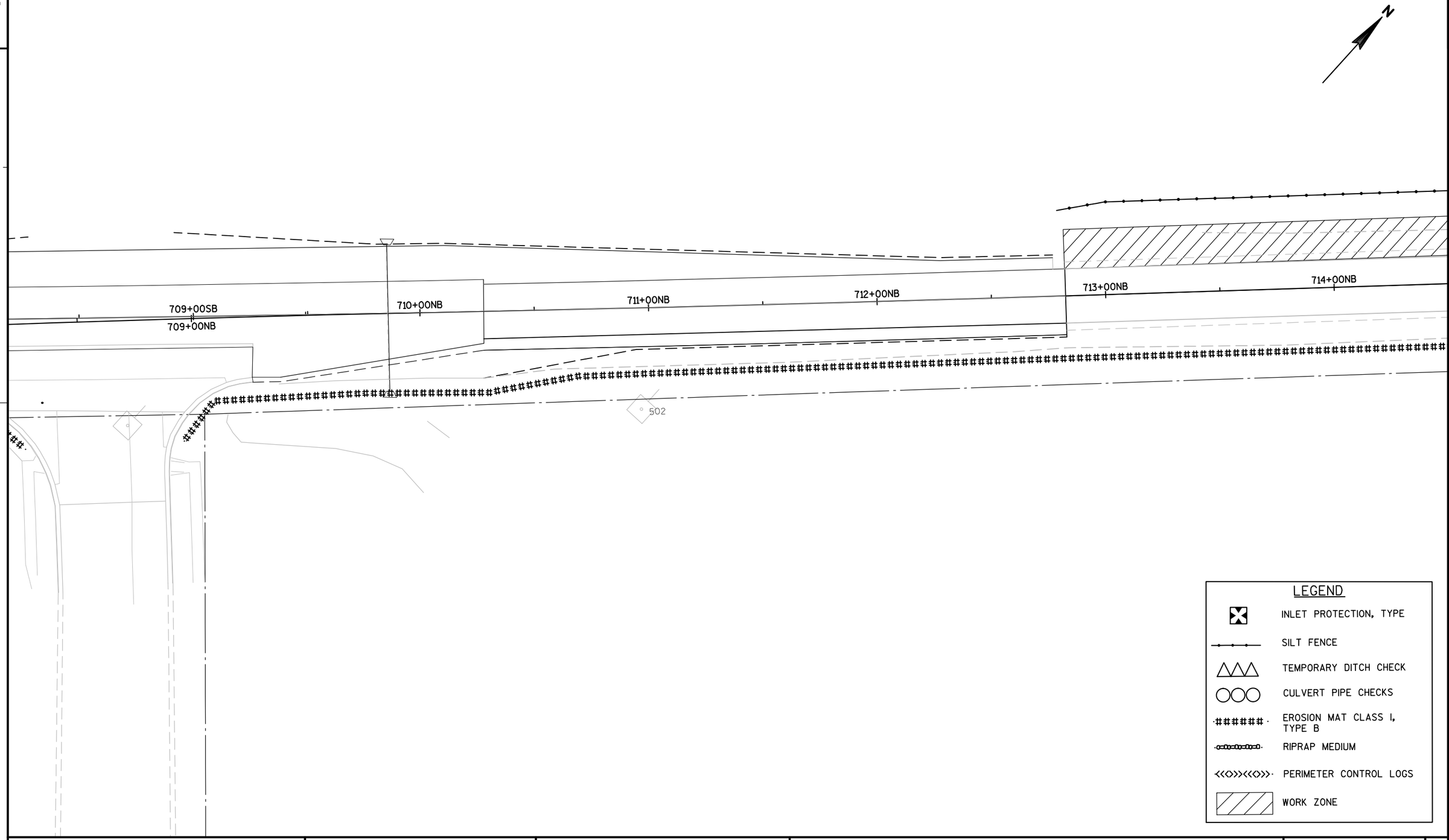
PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	EROSION CONTROL - STAGE 4	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\07-EROSION CONTROL\022004_EC - STAGE 4 EROSION CONTROL.DWG PLOT DATE : 5/14/2014 1:38 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2



LEGEND

- INLET PROTECTION, TYPE
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECKS
- EROSION MAT CLASS I, TYPE B
- RIPRAP MEDIUM
- PERIMETER CONTROL LOGS
- WORK ZONE

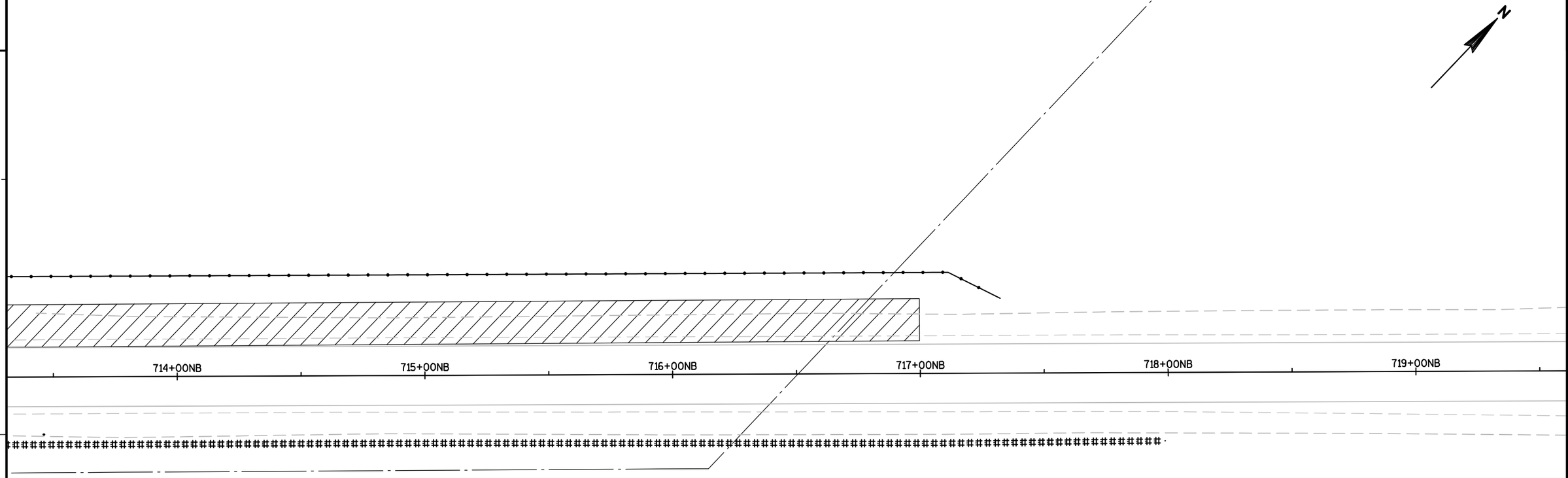
PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	EROSION CONTROL - STAGE 4	SHEET 57	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\07-EROSION CONTROL\022004_EC - STAGE 4 EROSION CONTROL.DWG PLOT DATE : 5/14/2014 1:38 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2



LEGEND

- INLET PROTECTION, TYPE
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECKS
- EROSION MAT CLASS I, TYPE B
- RIPRAP MEDIUM
- PERIMETER CONTROL LOGS
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	EROSION CONTROL - STAGE 4	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\07-EROSION CONTROL\022004_EC - STAGE 4 EROSION CONTROL.DWG PLOT DATE : 5/14/2014 1:38 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

13+78RAMP D

13+00RAMP D

12+00RAMP D

11+00RAMP D

10+00RAMP D

10+00RAMP A

AREA DESIGNATED AS LOCATION OF SALVAGED ASPHALTIC PAVEMENT MILLINGS STORAGE LOCATION. USE PERIMETER CONTROL LOGS OR OTHER ACCEPTABLE EROSION CONTROL DEVICE TO PREVENT RUNOFF OF STORED MATERIAL AS DIRECTED BY THE ENGINEER.

PERIMETER CONTROL LOGS

N

LEGEND

- INLET PROTECTION, TYPE
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECKS
- EROSION MAT CLASS I, TYPE B
- RIPRAP MEDIUM
- PERIMETER CONTROL LOGS
- WORK ZONE

4

697+00SB 698+00SB 699+00SB 700+00SB 701+00SB 702+00SB 703+00SB

697+00NB 698+00NB 699+00NB 700+00NB 701+00NB 702+00NB 703+00NB

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	EROSION CONTROL - STAGE 4	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\07-EROSION CONTROL\022004_EC - STAGE 4 EROSION CONTROL.DWG PLOT DATE : 5/14/2014 1:38 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

673+00NB

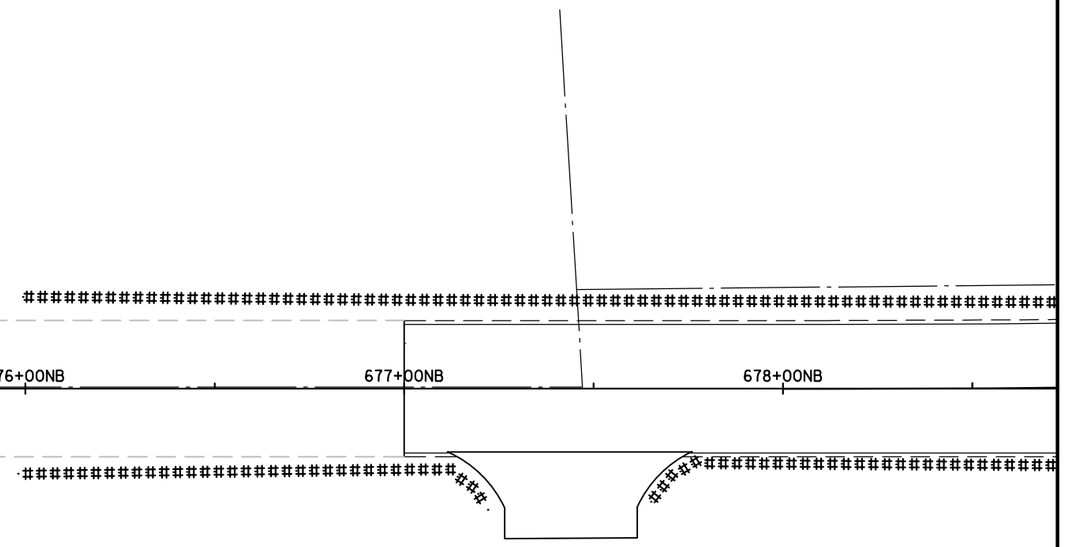
674+00NB

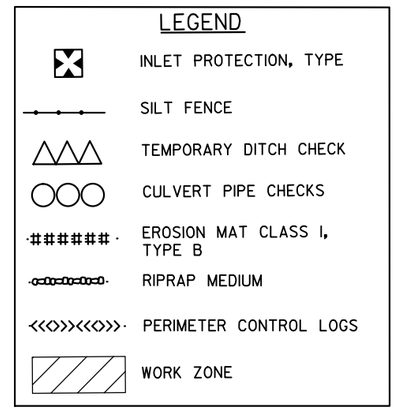
675+00NB

676+00NB

677+00NB

678+00NB





PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	EROSION CONTROL - STAGE 5	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\07-EROSION CONTROL\022005_EC - STAGE 5 EROSION CONTROL.DWG PLOT DATE : 5/14/2014 1:40 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

500

679+00SB
679+00NB

680+00SB
680+00NB

681+00SB
681+00NB

682+00SB
682+00NB

683+00SB
683+00NB

684+00SB
684+00NB

MH

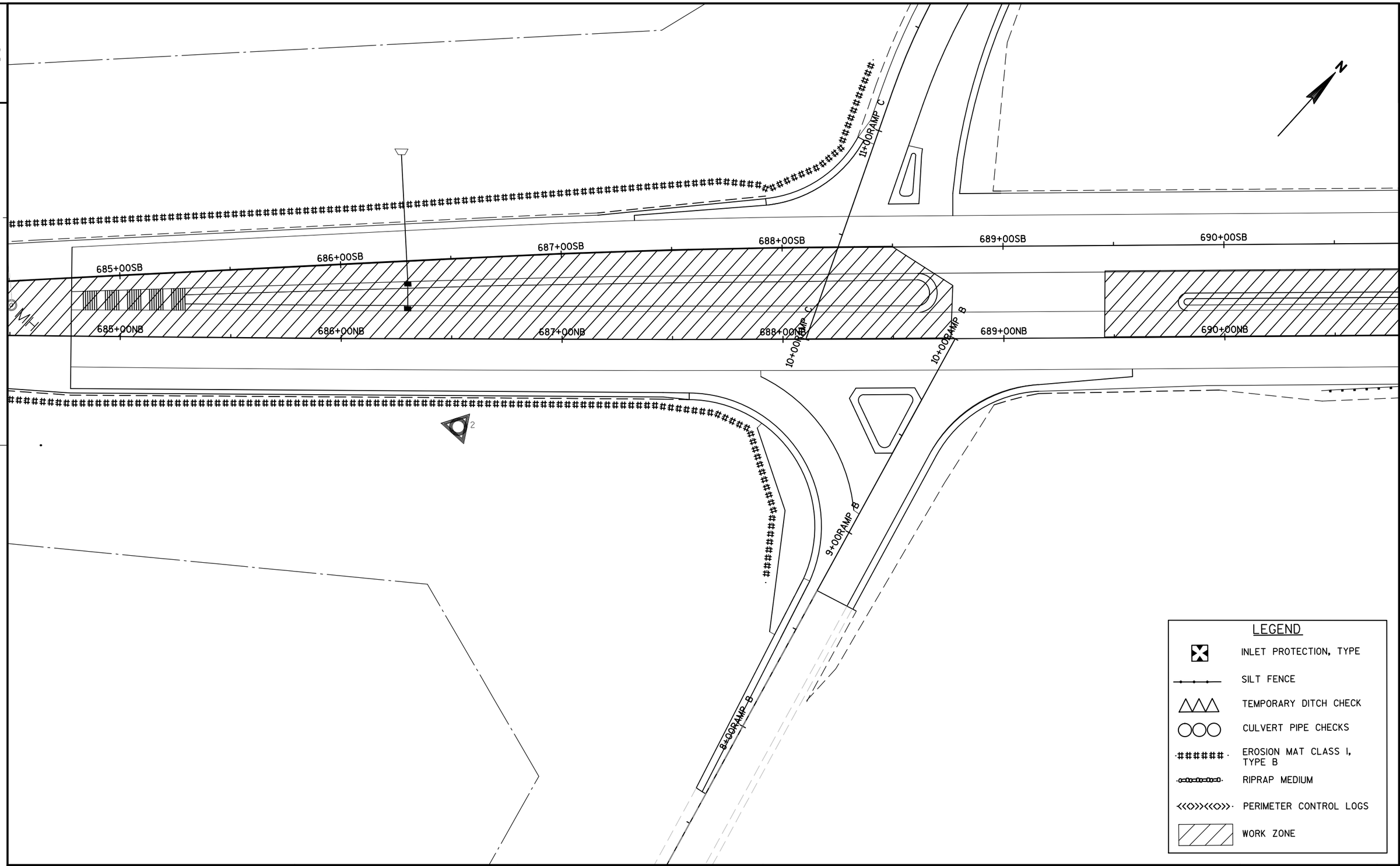
LEGEND

- INLET PROTECTION, TYPE
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECKS
- EROSION MAT CLASS I, TYPE B
- RIPRAP MEDIUM
- PERIMETER CONTROL LOGS
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	EROSION CONTROL - STAGE 5	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\07-EROSION CONTROL\022005_EC - STAGE 5 EROSION CONTROL.DWG PLOT DATE : 5/14/2014 1:40 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

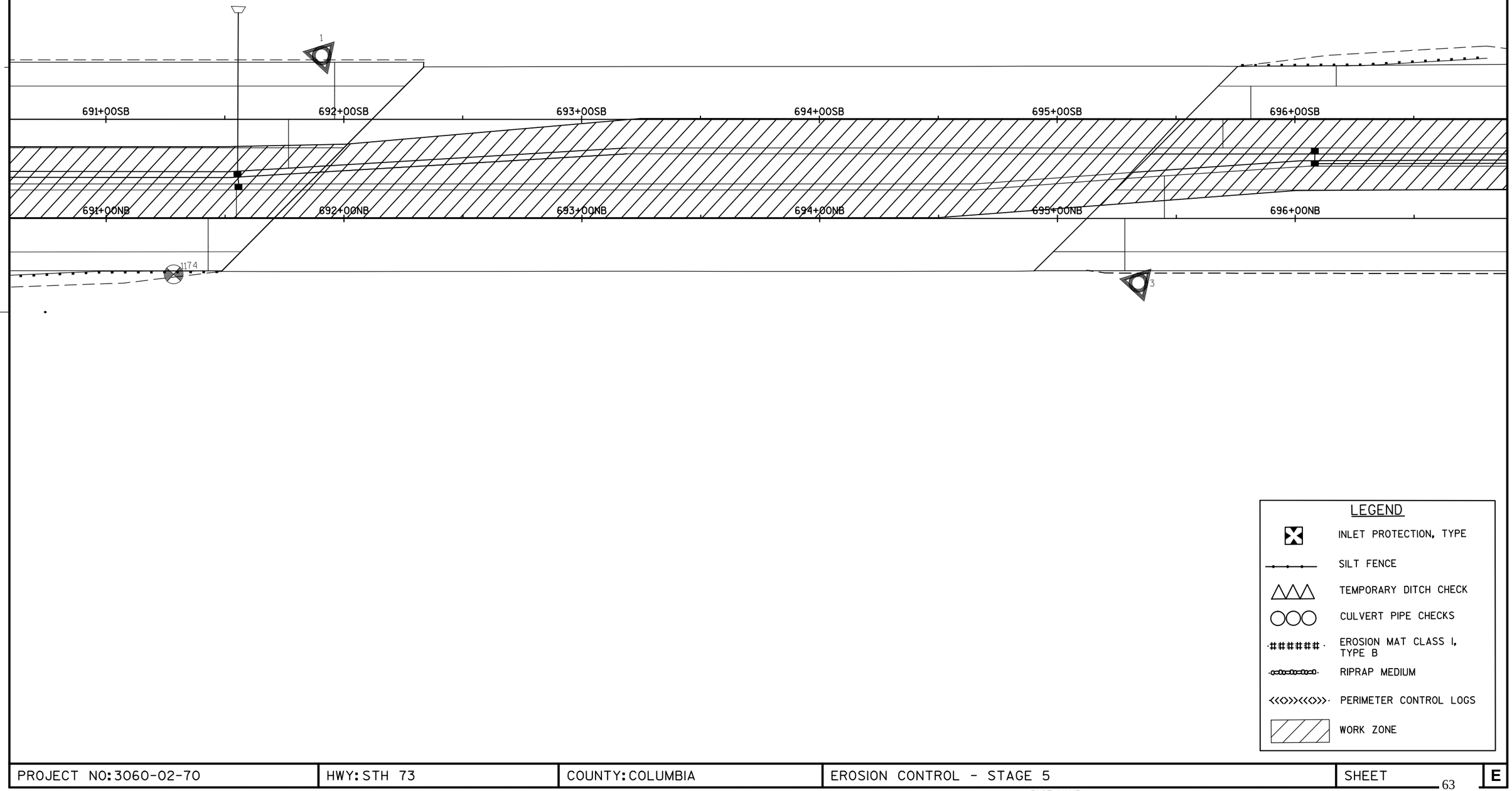


PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	EROSION CONTROL - STAGE 5	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\07-EROSION CONTROL\022005_EC - STAGE 5 EROSION CONTROL.DWG PLOT DATE : 5/14/2014 1:40 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2



LEGEND

- INLET PROTECTION, TYPE
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECKS
- EROSION MAT CLASS I, TYPE B
- RIPRAP MEDIUM
- PERIMETER CONTROL LOGS
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	EROSION CONTROL - STAGE 5	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\07-EROSION CONTROL\022005_EC - STAGE 5 EROSION CONTROL.DWG PLOT DATE : 5/14/2014 1:41 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

AREA DESIGNATED FOR SALVAGED ASPHALTIC PAVEMENT MILLINGS STORAGE TO BE USED BY THE DEPARTMENT.

12+00RAMP D

11+00RAMP D

10+00RAMP D

10+00RAMP A

9+00RAMP A

697+00SB

698+00SB

699+00SB

700+00SB

701+00SB

702+00SB

697+00NB

698+00NB

699+00NB

700+00NB

701+00NB

702+00NB

LEGEND

- INLET PROTECTION, TYPE
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECKS
- EROSION MAT CLASS I, TYPE B
- RIPRAP MEDIUM
- PERIMETER CONTROL LOGS
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	EROSION CONTROL - STAGE 5	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\07-EROSION CONTROL\022005_EC - STAGE 5 EROSION CONTROL.DWG PLOT DATE : 5/14/2014 1:41 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

703+00SB
704+00SB
705+00SB
706+00SB
707+00SB
708+00SB
703+00NB
704+00NB
705+00NB
706+00NB
707+00NB
708+00NB

501

LEGEND

- INLET PROTECTION, TYPE
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECKS
- EROSION MAT CLASS I, TYPE B
- RIPRAP MEDIUM
- PERIMETER CONTROL LOGS
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	EROSION CONTROL - STAGE 5	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\07-EROSION CONTROL\022005_EC - STAGE 5 EROSION CONTROL.DWG PLOT DATE : 5/14/2014 1:41 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

709+00SB
709+00NB
710+00NB
711+00NB
712+00NB
713+00NB
714+00NB
715+0

502

LEGEND

- INLET PROTECTION, TYPE
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECKS
- EROSION MAT CLASS I, TYPE B
- RIPRAP MEDIUM
- PERIMETER CONTROL LOGS
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	EROSION CONTROL - STAGE 5	SHEET 66	E

2

2

715+00NB

716+00NB

717+00NB

718+00NB

719+00NB

720+00NB

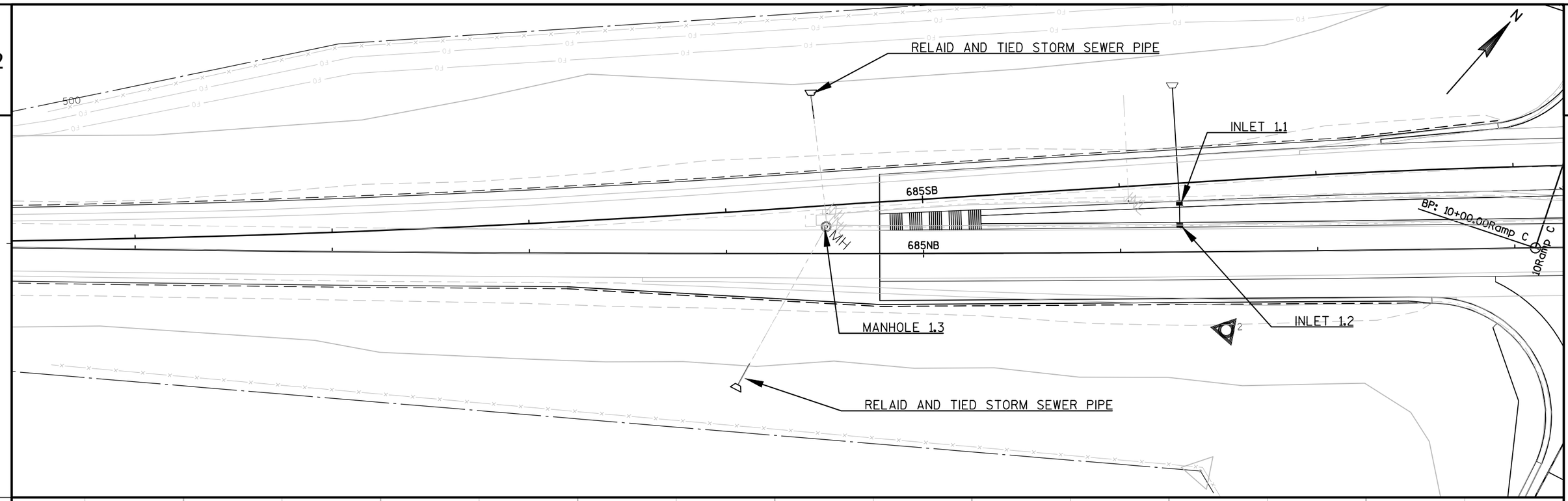
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LEGEND

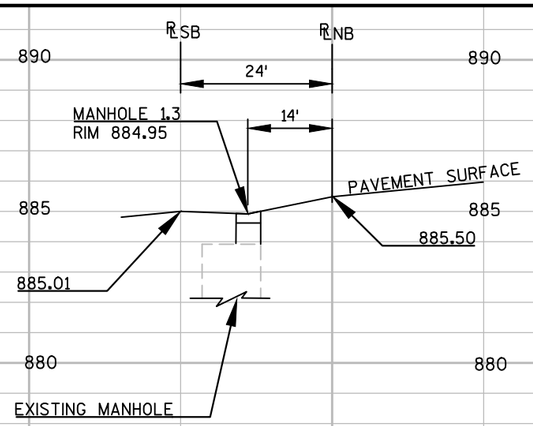
- INLET PROTECTION, TYPE
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECKS
- EROSION MAT CLASS I, TYPE B
- RIPRAP MEDIUM
- PERIMETER CONTROL LOGS
- WORK ZONE

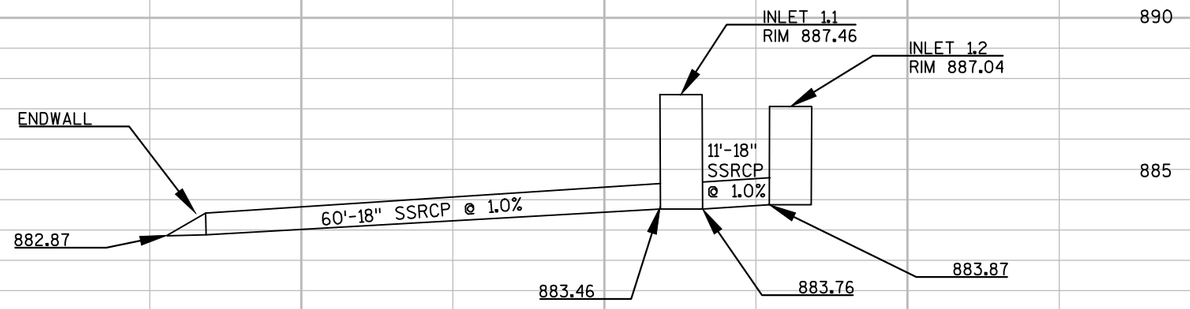
PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	EROSION CONTROL - STAGE 5	SHEET 67	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\07-EROSION CONTROL\022005_EC - STAGE 5 EROSION CONTROL.DWG PLOT DATE : 5/14/2014 1:41 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

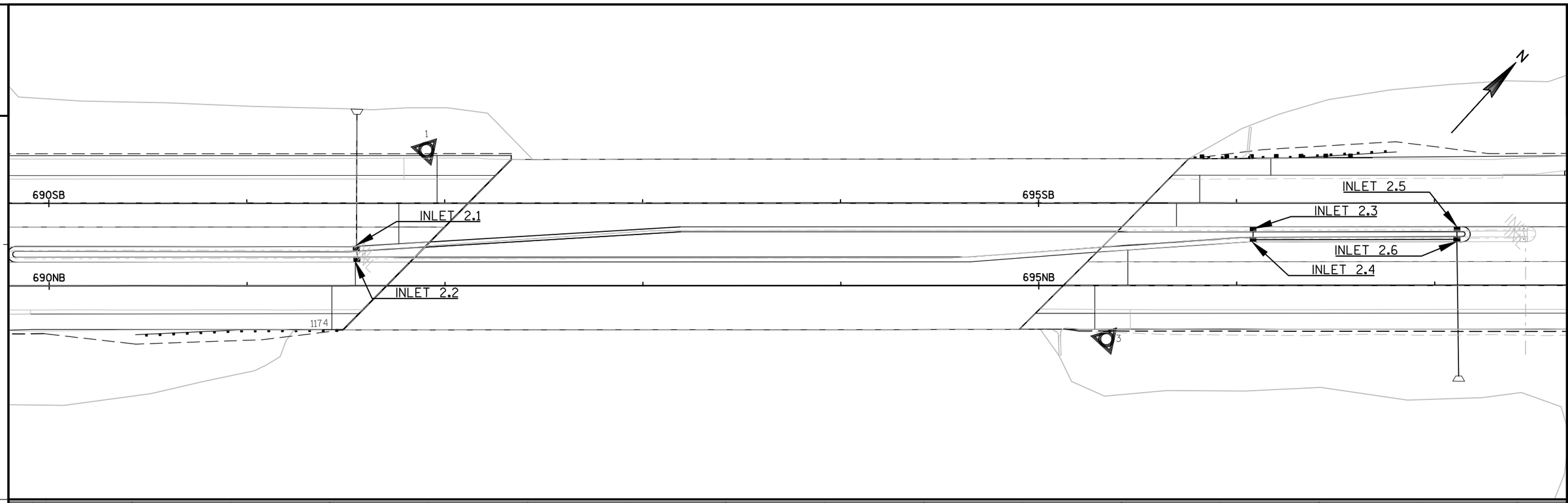


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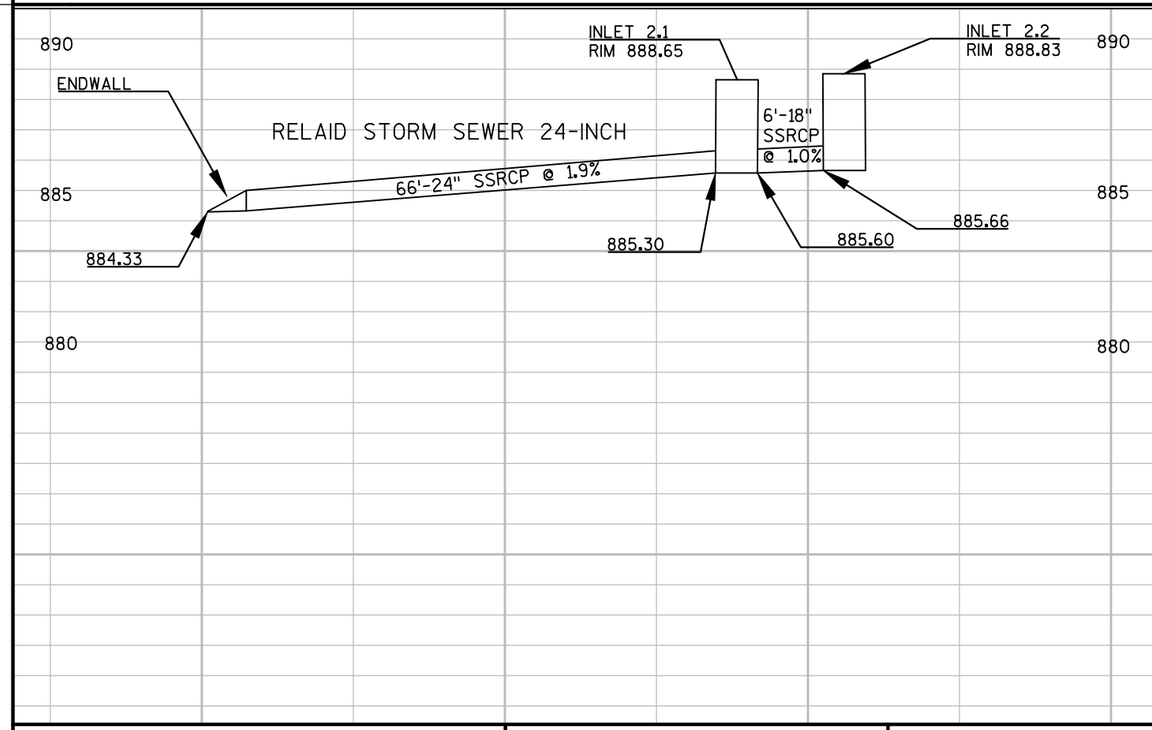


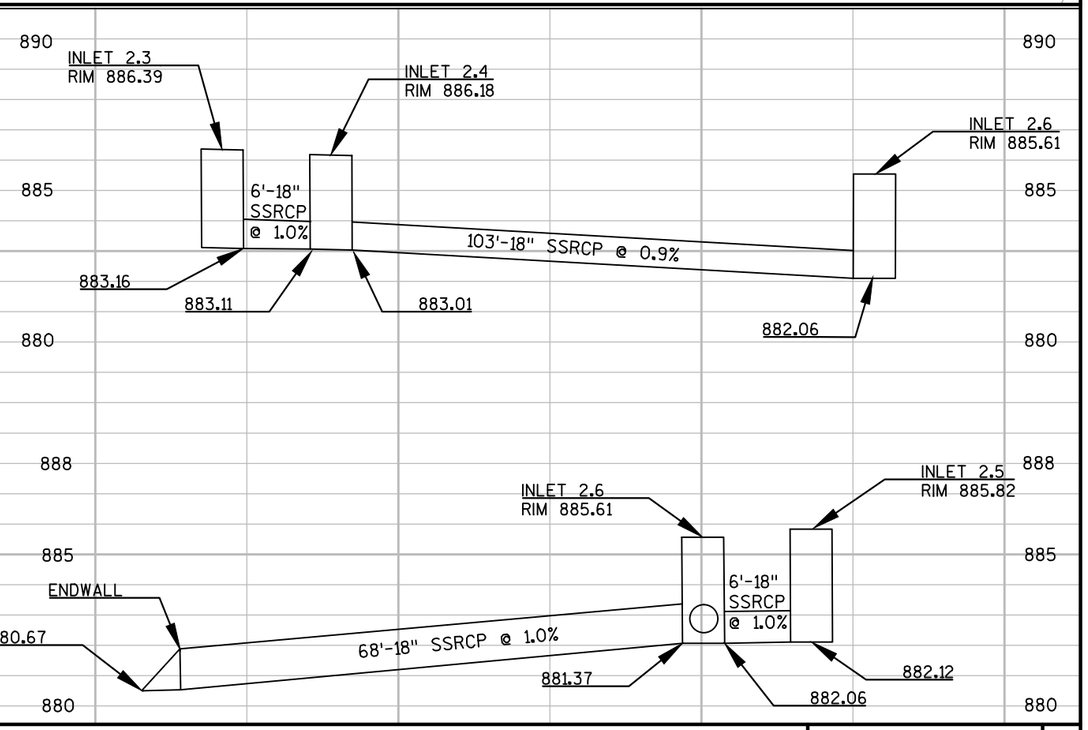


NOTE: LENGTHS OF STORM SEWER GIVEN DOES NOT INCLUDE LENGTH OF ENDWALL. LENGTHS MEASURED TO CENTER OF STRUCTURE.

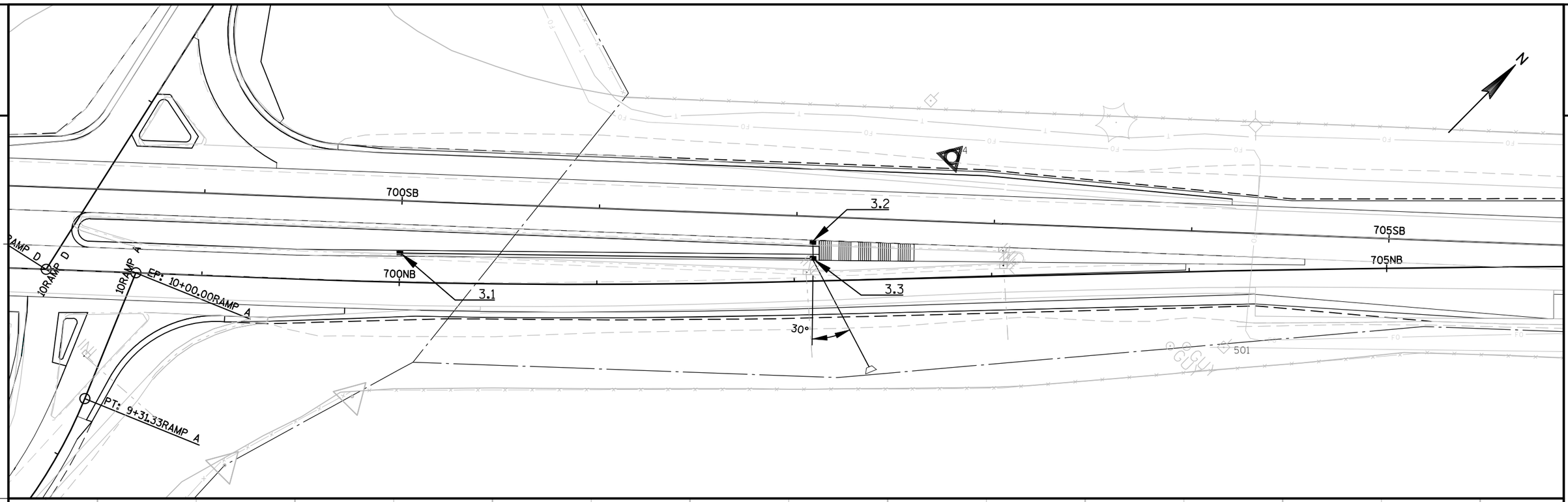


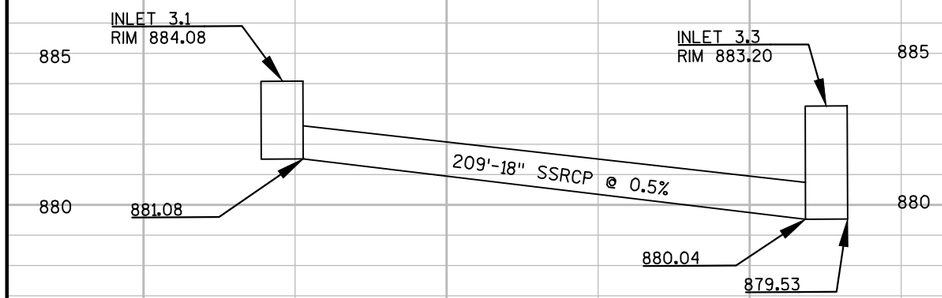
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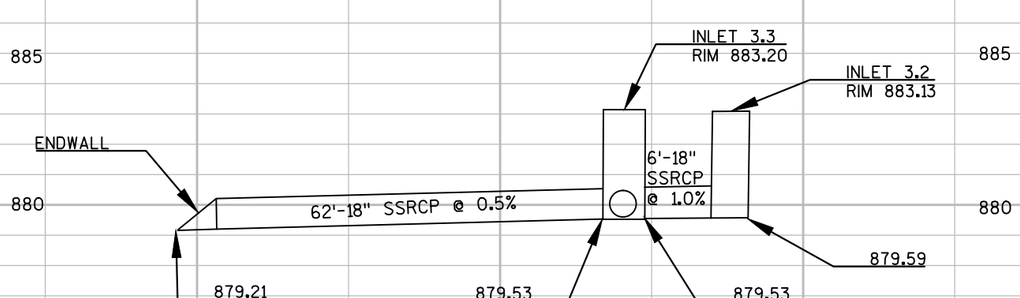




PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	STORM SEWER	SHEET 69	E

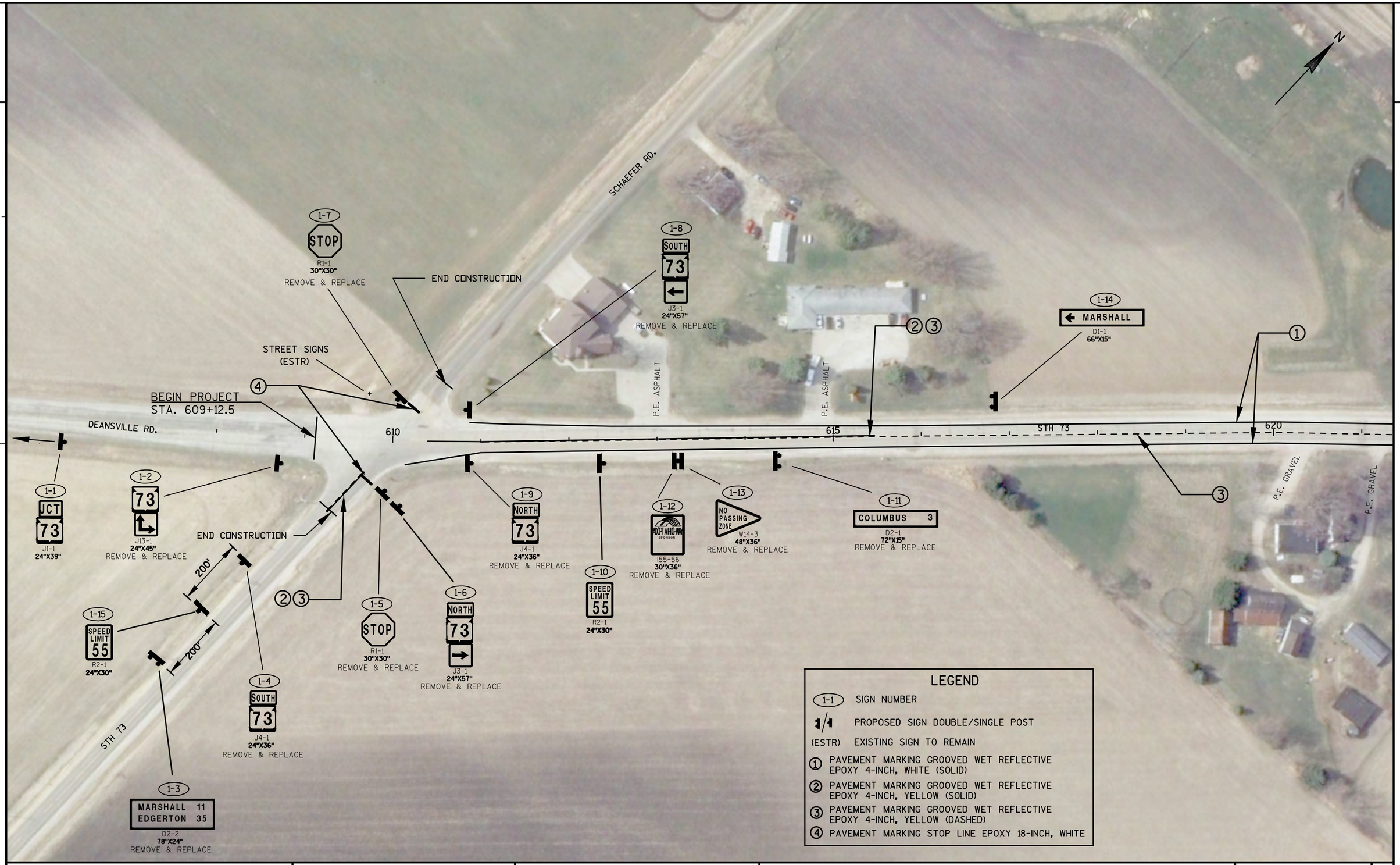




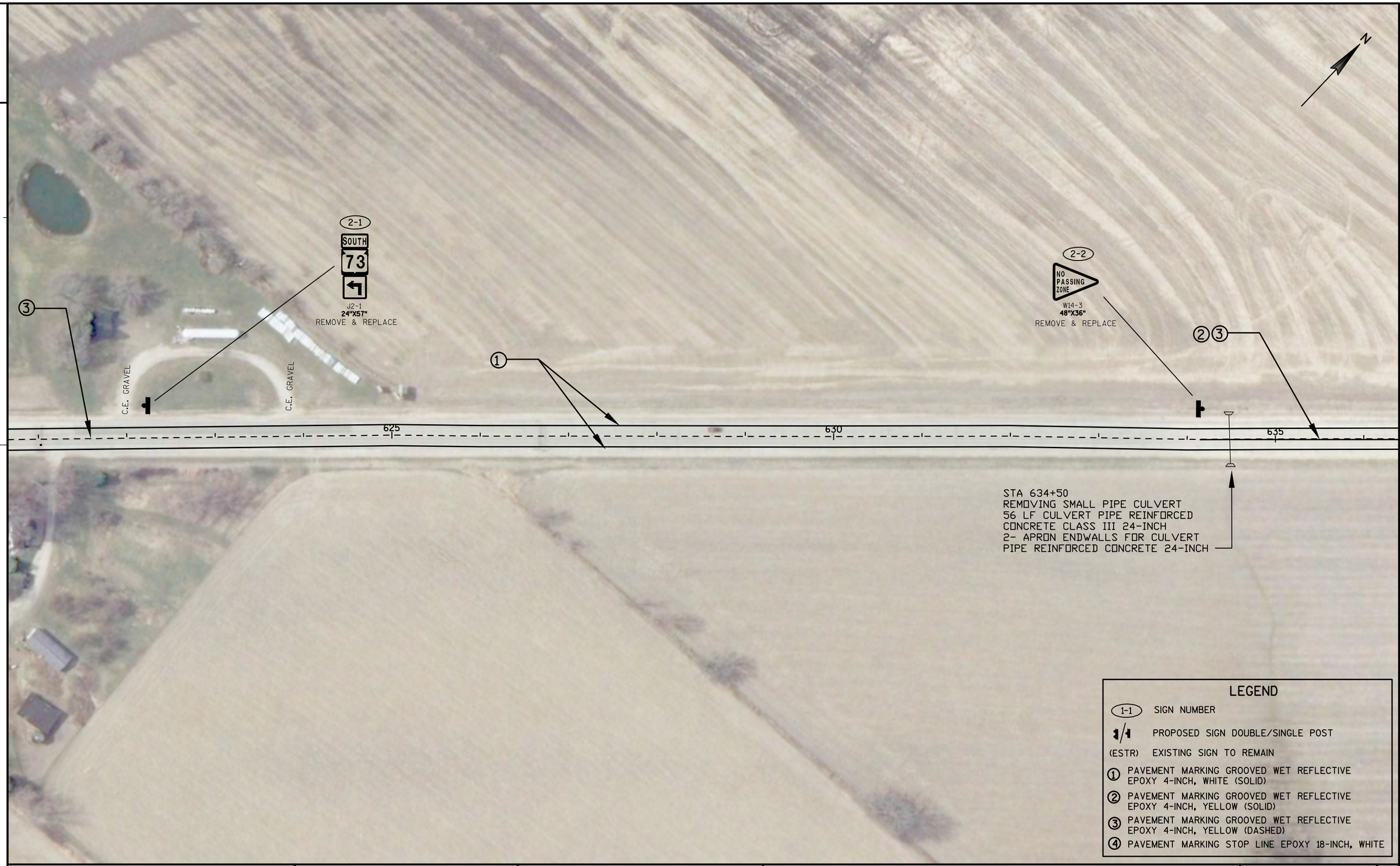


PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	STORM SEWER	SHEET 70	E

2



PROJECT NO: 3060-02-62	HWY: STH 73	COUNTY: COLUMBIA	PLAN DETAILS; PERMANENT SIGNING AND MARKING	SHEET 71	E



PROJECT NO: 3060-02-62	HWY: STH 73	COUNTY: COLUMBIA	PLAN DETAILS; PERMANENT SIGNING AND MARKING	SHEET	E

FILE NAME : N:\PDS\C3D\30600232\SHEETSPLAN\SIGNING & MARKING\023201_PS.DWG PLOT DATE : 5/1/2014 1:06 PM PLOT BY : WHITE, JEREMY J PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2



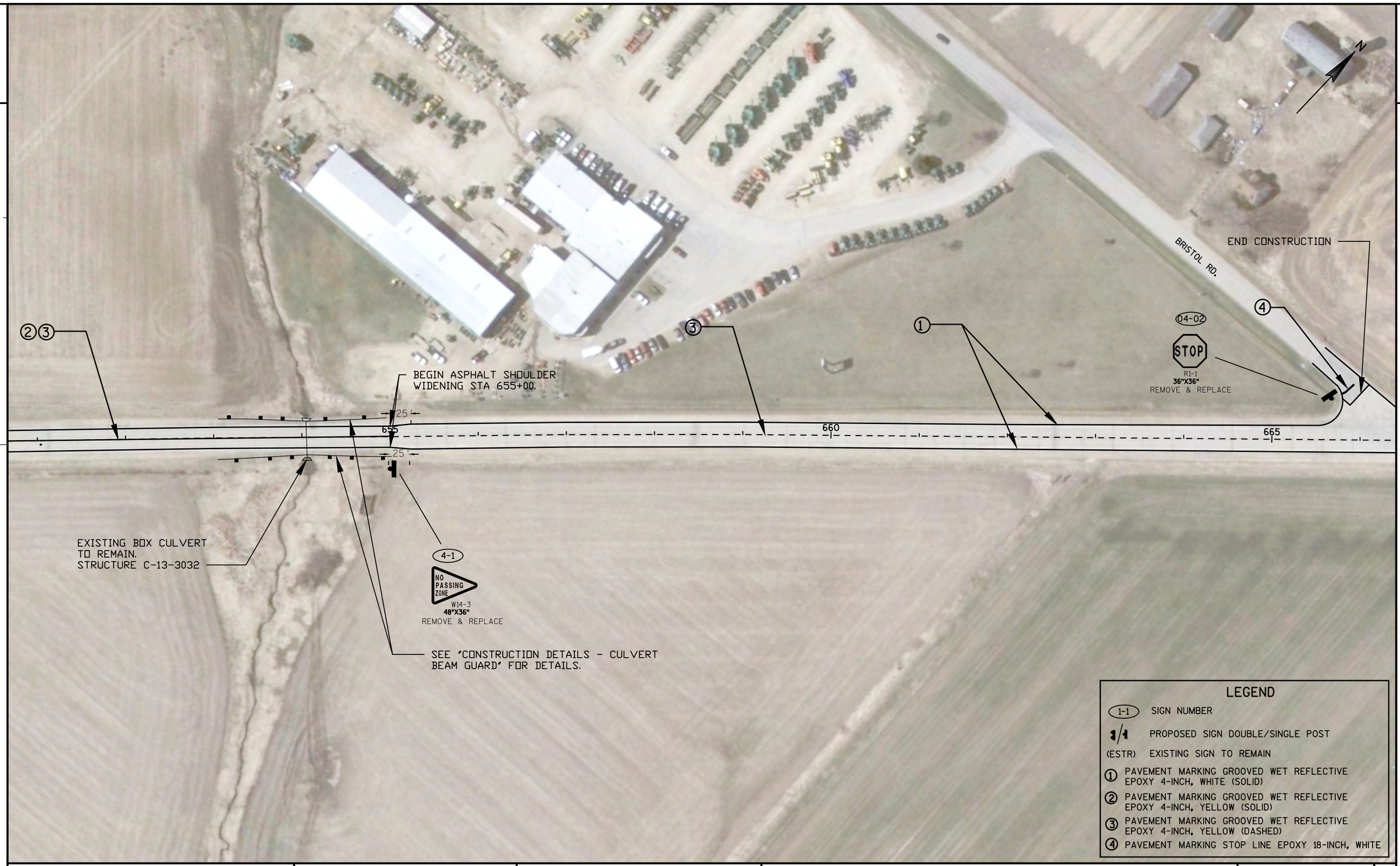
LEGEND

- (1-1) SIGN NUMBER
- PROPOSED SIGN DOUBLE/SINGLE POST
- (ESTR) EXISTING SIGN TO REMAIN
- ① PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH, WHITE (SOLID)
- ② PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH, YELLOW (SOLID)
- ③ PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH, YELLOW (DASHED)
- ④ PAVEMENT MARKING STOP LINE EPOXY 18-INCH, WHITE

PROJECT NO: 3060-02-62	HWY: STH 73	COUNTY: COLUMBIA	PLAN DETAILS; PERMANENT SIGNING AND MARKING	SHEET	E

FILE NAME : N:\PDS\C3D\30600232\SHEETSPLAN\SIGNING & MARKING\023201_PS.DWG PLOT DATE : 5/1/2014 1:06 PM PLOT BY : WHITE, JEREMY J PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

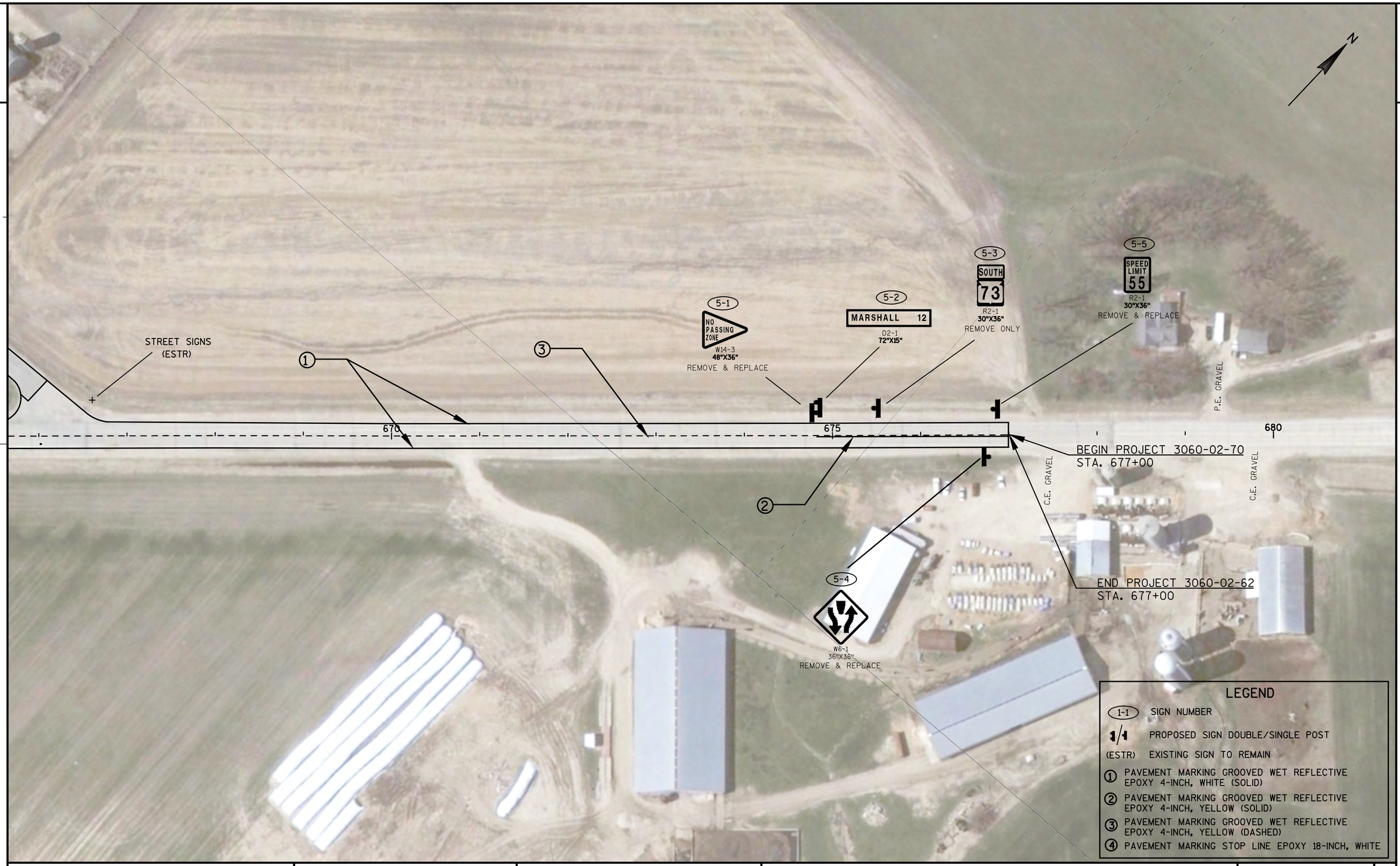


LEGEND

- (1-1) SIGN NUMBER
- 1/1 PROPOSED SIGN DOUBLE/SINGLE POST
- (ESTR) EXISTING SIGN TO REMAIN
- (1) PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH, WHITE (SOLID)
- (2) PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH, YELLOW (SOLID)
- (3) PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH, YELLOW (DASHED)
- (4) PAVEMENT MARKING STOP LINE EPOXY 18-INCH, WHITE

PROJECT NO: 3060-02-62	HWY: STH 73	COUNTY: COLUMBIA	PLAN DETAILS; PERMANENT SIGNING AND MARKING	SHEET 74	E

2



PROJECT NO: 3060-02-62	HWY: STH 73	COUNTY: COLUMBIA	PLAN DETAILS; PERMANENT SIGNING AND MARKING	SHEET 75	E

2

BEGIN PROJECT
STA. 677+00

680+00SB
680+00NB
685+00SB
685+00NB
690+00SB
690+00NB
STH 73
500

6-1 JCT 151 — J1-1, 24"X39", REMOVE & REPLACE

6-2 SOUTH 73 — J4-1, 24"X36"

6-3 — W6-3, 36"X36", REMOVE & REPLACE

6-4 Columbus / Beaver Dam / MADISON — REMOVE ONLY

6-5 NORTH 151 SOUTH; KEEP LEFT / KEEP RIGHT — D1-72, 120"X60"

6-6 DO NOT ENTER — R5-1, 36"X36", REMOVE & REPLACE

6-7 — R4-7, 24"X30", REMOVE & REPLACE

6-8 — W5-54, 18"X18"

6-9 WRONG WAY — R5-1A, 42"X30", REMOVE & REPLACE

6-10 WRONG WAY — R5-1A, 42"X30", REMOVE & REPLACE

6-11 — W6-2, 36"X36"

6-12 SOUTH 151 / NORTH 151 — REMOVE ONLY

6-13 NORTH 151 Beaver Dam; SOUTH 151 Madison — D1-71, 78"X60"

6-14 DO NOT ENTER — R5-1, 36"X36", REMOVE & REPLACE

6-15 — R3-2, 24"X24", REMOVE & REPLACE

6-16 NORTH 73 — J3-1, 24"X57", REMOVE & REPLACE

6-17 ONE WAY — R6-2L, 24"X30", REMOVE & REPLACE

6-18 151 SOUTH Madison — D1-70, 66"X30"

6-19 DO NOT ENTER — R5-1, 36"X36", REMOVE & REPLACE

6-20 SOUTH 151 — REMOVE ONLY

6-21 — R4-7, 24"X30", REMOVE & REPLACE

6-22 WRONG WAY — R5-1A, 42"X30", REMOVE & REPLACE

6-23 LEFT LANE ENDS — REMOVE ONLY

6-24 — W4-2L, 36"X36"

6-25 / 6-26 NORTH 151 — J2-1, 24"X57"

6-27 BEGIN LEFT TURN LANE — R3-20L, 24"X36", REMOVE & REPLACE

6-28 MARSHALL / MADISON — REMOVE ONLY

6-29 — REMOVE ONLY

6-30 —

6-31 LEFT LANE ENDS — REMOVE ONLY

SPEED LIMIT 45 — ESTR (MOVE SIGN AS NEEDED)

14+32RAMP C
10+00RAMP C
10+00RAMP B
6+79RAMP B

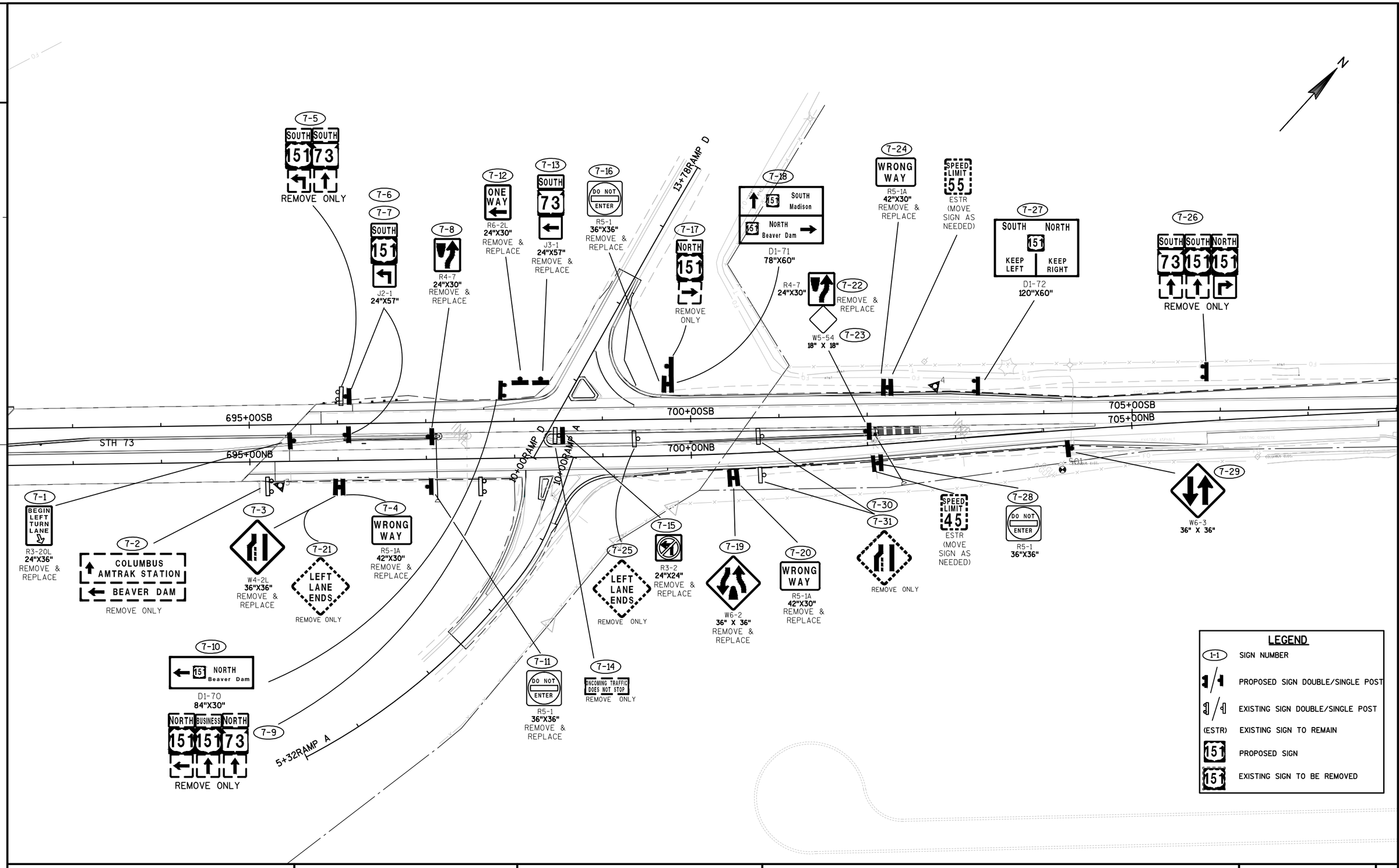
LEGEND

- (1-1) SIGN NUMBER
- PROPOSED SIGN DOUBLE/SINGLE POST
- EXISTING SIGN DOUBLE/SINGLE POST
- (ESTR) EXISTING SIGN TO REMAIN
- 151 PROPOSED SIGN
- 151 EXISTING SIGN TO BE REMOVED

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	PERMANENT SIGNING - MAINLINE	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\10-SIGNING & MARKING\023201_PS.DWG PLOT DATE : 5/1/2014 1:24 PM PLOT BY : WHITE, JEREMY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	PERMANENT SIGNING - MAINLINE	SHEET 77	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\10-SIGNING & MARKING\023201_PS.DWG PLOT DATE : 5/1/2014 1:24 PM PLOT BY : WHITE, JEREMY J PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

8-2

W6-1
36"X36"
REMOVE &
REPLACE

8-4

JCT
151

J1-1
24"X39"

SPEED LIMIT 45
(ESTR)

END PROJECT
STA. 712+82

710+00NB

STH 73

715+00NB

720+00NB

8-5

HOSPITAL ENTRANCE

W54-59
30"X30"
REMOVE &
REPLACE

SPEED LIMIT 35
(ESTR)

TRUCKS FOLLOW YELLOW POSTS
(ESTR)

NO ENGINE BRAKING EXCEPT IN EMERGENCY WITHIN CITY LIMITS
(ESTR)

8-1

NORTH BUSINESS 73 151

J4-2
48"X36"

8-3

SPEED LIMIT 35

REMOVE

HERITAGE WAY

LEGEND

1-1	SIGN NUMBER
	PROPOSED SIGN DOUBLE/SINGLE POST
	EXISTING SIGN DOUBLE/SINGLE POST
(ESTR)	EXISTING SIGN TO REMAIN
151	PROPOSED SIGN
151	EXISTING SIGN TO BE REMOVED

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	PERMANENT SIGNING - REMOVALS - MAINLINE	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\10-SIGNING & MARKING\023201_PS.DWG PLOT DATE : 5/1/2014 1:24 PM PLOT BY : WHITE, JEREMY J PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

695+00SB

695+00NB

STH 73

9-10 DO NOT ENTER
R5-1 **30"X30"** REMOVE & REPLACE

9-13 ONE WAY
R6-2L **24"X30"** REMOVE & REPLACE

9-9
R3-1 **24"X24"** REMOVE & REPLACE

9-11 / 9-12 STOP
R1-1 **36"X36"** REMOVE & REPLACE

FOOD FOOD
GAS
(ESTR)

RAMP A
200'
190'
200'
175'
5+32RAMP A

10+00RAMP D
10+00RAMP A

RAMP D
330'
13+78RAMP D

9-16 YIELD
R1-2 **36"X31"** REMOVE & REPLACE

9-17 PEDESTRIANS BICYCLES NON MOTORIZED TRAFFIC MOTOR BICYCLES PROHIBITED
R5-57 **36"X36"** REMOVE & REPLACE

700+00SB
700+00NB

9-1
W3-1 **36" X 36"** REMOVE & REPLACE

9-2 SOUTH NORTH BUSINESS 73 73 151
J2-3 **72"X57"** REMOVE & REPLACE

9-3 CHRISTOPHER COLUMBUS MUSEUM
D1-3 **78"X36"** REMOVE & REPLACE

9-4 COLUMBUS AMTRAK STATION
D1-2 **102"X30"** REMOVE & REPLACE

9-5 H
REMOVE

9-6 / 9-7 WRONG WAY
R5-1A **36"X24"** REMOVE & REPLACE

9-14 / 9-15 STOP DIVIDED HIGHWAY
R1-1 **36"X36"**
R6-3 **30"X24"** REMOVE & REPLACE

9-8 SOUTH NORTH BUSINESS 73 73 151
REMOVE

9-18 SOUTH NORTH BUSINESS 73 73 151 H
BLUE AND WHITE HOSPITAL
J3-4 96"X57"

705+00SB
705+00NB

LEGEND

1-1	SIGN NUMBER
	PROPOSED SIGN DOUBLE/SINGLE POST
	EXISTING SIGN DOUBLE/SINGLE POST
(ESTR)	EXISTING SIGN TO REMAIN
151	PROPOSED SIGN
151	EXISTING SIGN TO BE REMOVED

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	PERMANENT SIGNING - RAMPS A & D	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\10-SIGNING & MARKING\023201_PS.DWG PLOT DATE : 5/1/2014 1:24 PM PLOT BY : WHITE, JEREMY J PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

BLUE AND WHITE HOSPITAL

10-12
NORTH BUSINESS SOUTH
73 151 H 73
J3-4
96"X57"

10-13
10-14
R5-1A
36"X24"
WRONG WAY
REMOVE & REPLACE

10-15
COLUMBUS
MARSHALL
D1-2
72"X30"
REMOVE & REPLACE

10-17
NORTH BUSINESS SOUTH
73 151 73
J2-3
72"X57"

10-16
NORTH SOUTH
73 73
J2-2
48"X57"
REMOVE ONLY

10-18
W3-1
36" X 36"
REMOVE & REPLACE

R1-1
36"X36"
10-9
STOP
10-10
DIVIDED HIGHWAY
R6-3
30"X24"
REMOVE & REPLACE

10-5
SOUTH
73
REMOVE ONLY

685+00SB
685+00NB

14+32RAMP C

RAMP C

310'

220'

10+00RAMP C

10+00RAMP B

690+00SB

690+00NB

STH 73

695+00SB

10-1
PEDESTRIANS
BICYCLES
NON MOTORIZED TRAFFIC
MOTOR BICYCLES
PROHIBITED
R5-57
36"X36"
REMOVE & REPLACE

10-2
YIELD
R1-2
36"X31"
REMOVE & REPLACE

R1-1
36"X36"
10-6
10-7
STOP
REMOVE & REPLACE

10-11
H
REMOVE

10-8
R3-1
24"X24"
REMOVE & REPLACE

310'

6+79RAMP B

RAMP B

10-3
ONE WAY
R6-2L
24"X30"
REMOVE & REPLACE

10-4
DO NOT ENTER
R5-1
30"X30"
REMOVE & REPLACE

LEGEND

1-1	SIGN NUMBER
	PROPOSED SIGN DOUBLE/SINGLE POST
	EXISTING SIGN DOUBLE/SINGLE POST
(ESTR)	EXISTING SIGN TO REMAIN
151	PROPOSED SIGN
151	EXISTING SIGN TO BE REMOVED

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	PERMANENT SIGNING - RAMPS B & C	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\10-SIGNING & MARKING\023201_PS.DWG PLOT DATE : 5/1/2014 1:24 PM PLOT BY : WHITE, JEREMY J PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

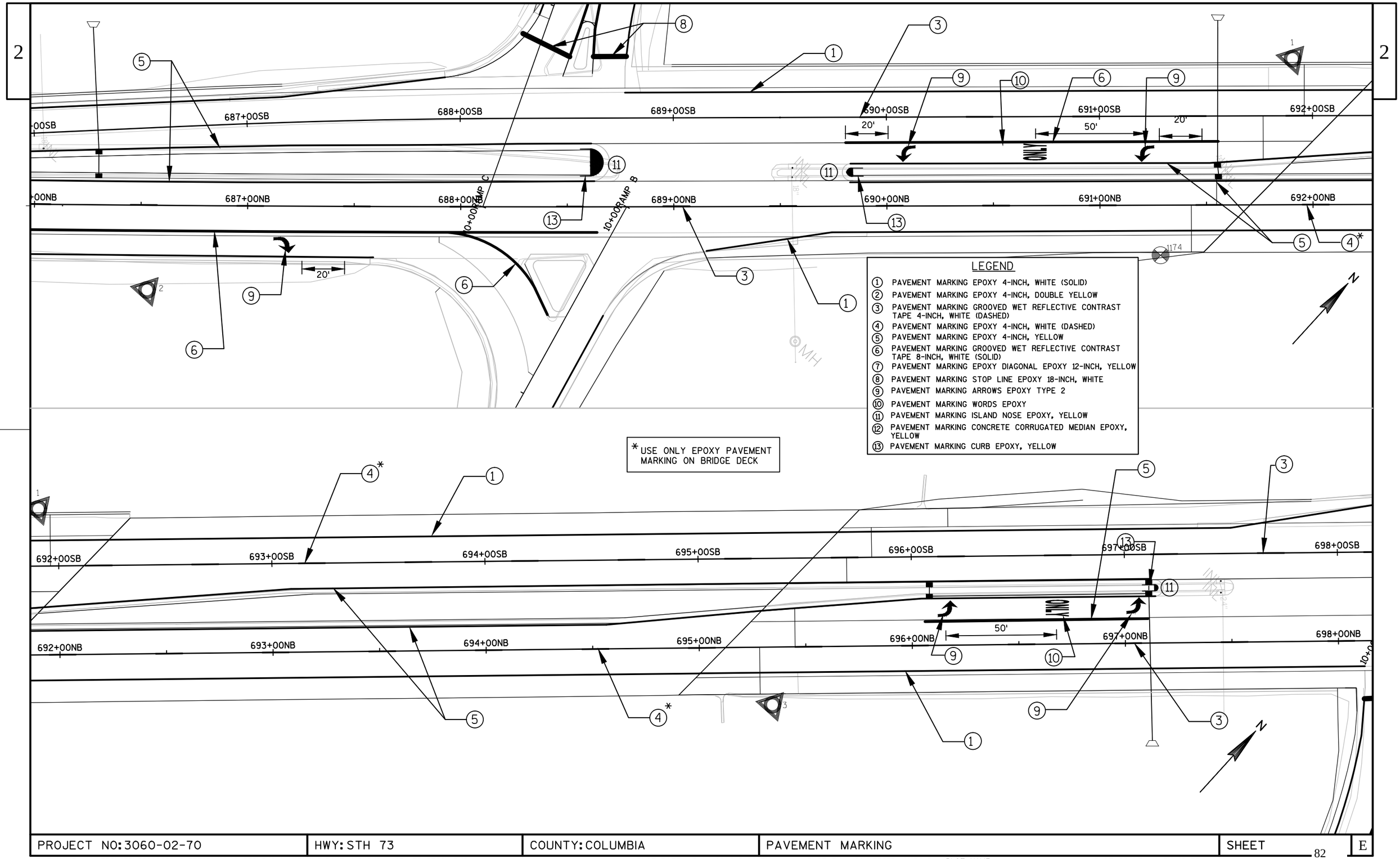
LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH, WHITE (SOLID)
2. PAVEMENT MARKING EPOXY 4-INCH, DOUBLE YELLOW
3. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 4-INCH, WHITE (DASHED)
4. PAVEMENT MARKING EPOXY 4-INCH, WHITE (DASHED)
5. PAVEMENT MARKING EPOXY 4-INCH, YELLOW
6. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH, WHITE (SOLID)
7. PAVEMENT MARKING EPOXY DIAGONAL EPOXY 12-INCH, YELLOW
8. PAVEMENT MARKING STOP LINE EPOXY 18-INCH, WHITE
9. PAVEMENT MARKING ARROWS EPOXY TYPE 2
10. PAVEMENT MARKING WORDS EPOXY
11. PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
12. PAVEMENT MARKING CONCRETE CORRUGATED MEDIAN EPOXY, YELLOW
13. PAVEMENT MARKING CURB EPOXY, YELLOW
14. PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH WHITE (SOLID)
15. PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH DOUBLE YELLOW

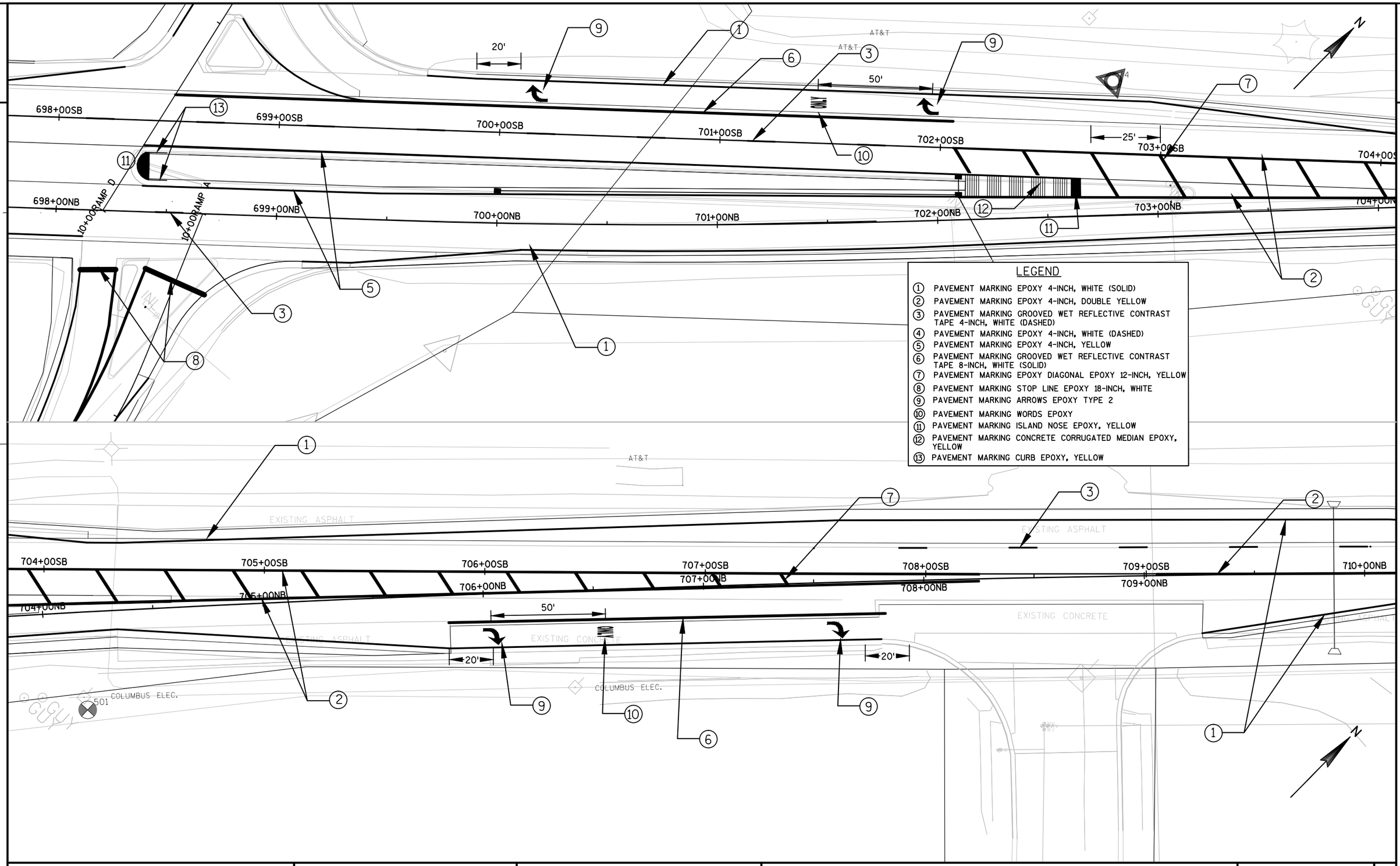
AT&T
AT&T
675+00NB
676+00NB
677+00NB
678+00NB
679+00SB
679+00NB
680+00SB
680+00NB
ADAM - COLUMBIA ELECTRIC
N
AT&T
AT&T
680+00SB
680+00NB
681+00SB
681+00NB
682+00SB
682+00NB
683+00SB
683+00NB
684+00SB
684+00NB
685+00SB
685+00NB
686+00SB
686+00NB
MH
25' TYP.
50'
20'

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	PAVEMENT MARKING	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\10-SIGNING & MARKING\PAVE MARKING - STH 73 RECON.DWG PLOT DATE : 5/14/2014 3:00 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT



PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	PAVEMENT MARKING	SHEET 82	E



PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	PAVEMENT MARKING	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\10-SIGNING & MARKING\PAVE MARKING - STH 73 RECON.DWG PLOT DATE : 5/14/2014 3:00 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH, WHITE (SOLID)
2. PAVEMENT MARKING EPOXY 4-INCH, DOUBLE YELLOW
3. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 4-INCH, WHITE (DASHED)
4. PAVEMENT MARKING EPOXY 4-INCH, WHITE (DASHED)
5. PAVEMENT MARKING EPOXY 4-INCH, YELLOW
6. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH, WHITE (SOLID)
7. PAVEMENT MARKING EPOXY DIAGONAL EPOXY 12-INCH, YELLOW
8. PAVEMENT MARKING STOP LINE EPOXY 18-INCH, WHITE
9. PAVEMENT MARKING ARROWS EPOXY TYPE 2
10. PAVEMENT MARKING WORDS EPOXY
11. PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
12. PAVEMENT MARKING CONCRETE CORRUGATED MEDIAN EPOXY, YELLOW
13. PAVEMENT MARKING CURB EPOXY, YELLOW

2

2

N

WE ENERGIES

AT&T

EXISTING ASPHALT

PROJECT LIMIT STA. 712+82

710+00NB

711+00NB

712+00NB

713+00NB

714+00NB

715+00NB

716+00NB

CONTINUE CENTERLINE AND EDGE LINE PAVEMENT MARKING TO CURB & GUTTER LIMITS IN THE CITY OF COLUMBUS. (APPROXMATELY STA. 722+75)

ASPHALT

502

COLUMBUS ELEC.

COLUMBUS WATER

AT&T

N

WE ENERGIES

AT&T

717+00NB

718+00NB

719+00NB

720+00NB

721+00NB

722+00NB

723+00

AT&T

COLUMBUS ELEC.

COLUMBUS WATER

AT&T

COLUMBUS ELEC.

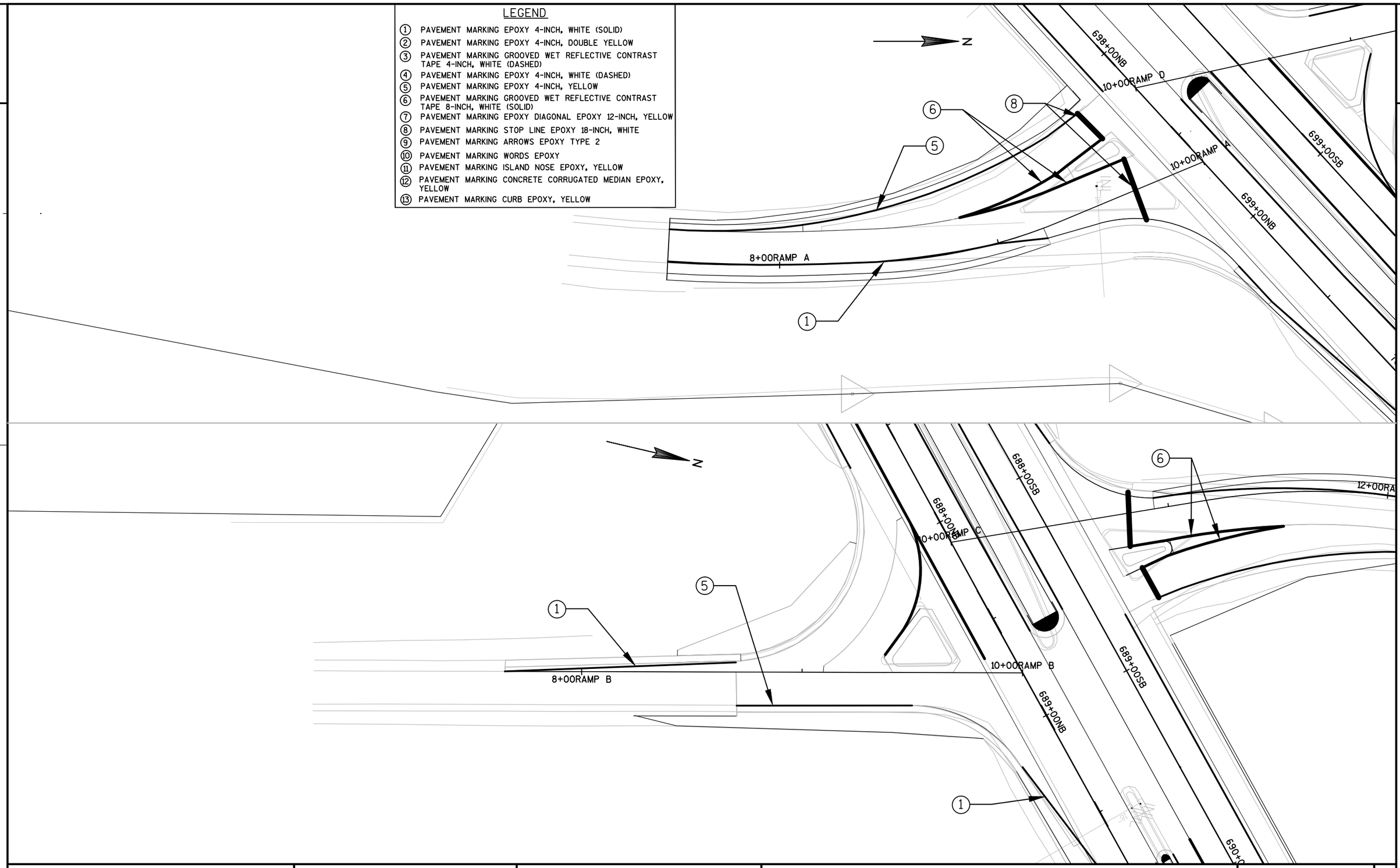
WATER

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	PAVEMENT MARKING	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\10-SIGNING & MARKING\PAVE MARKING - STH 73 RECON.DWG PLOT DATE : 5/14/2014 3:00 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

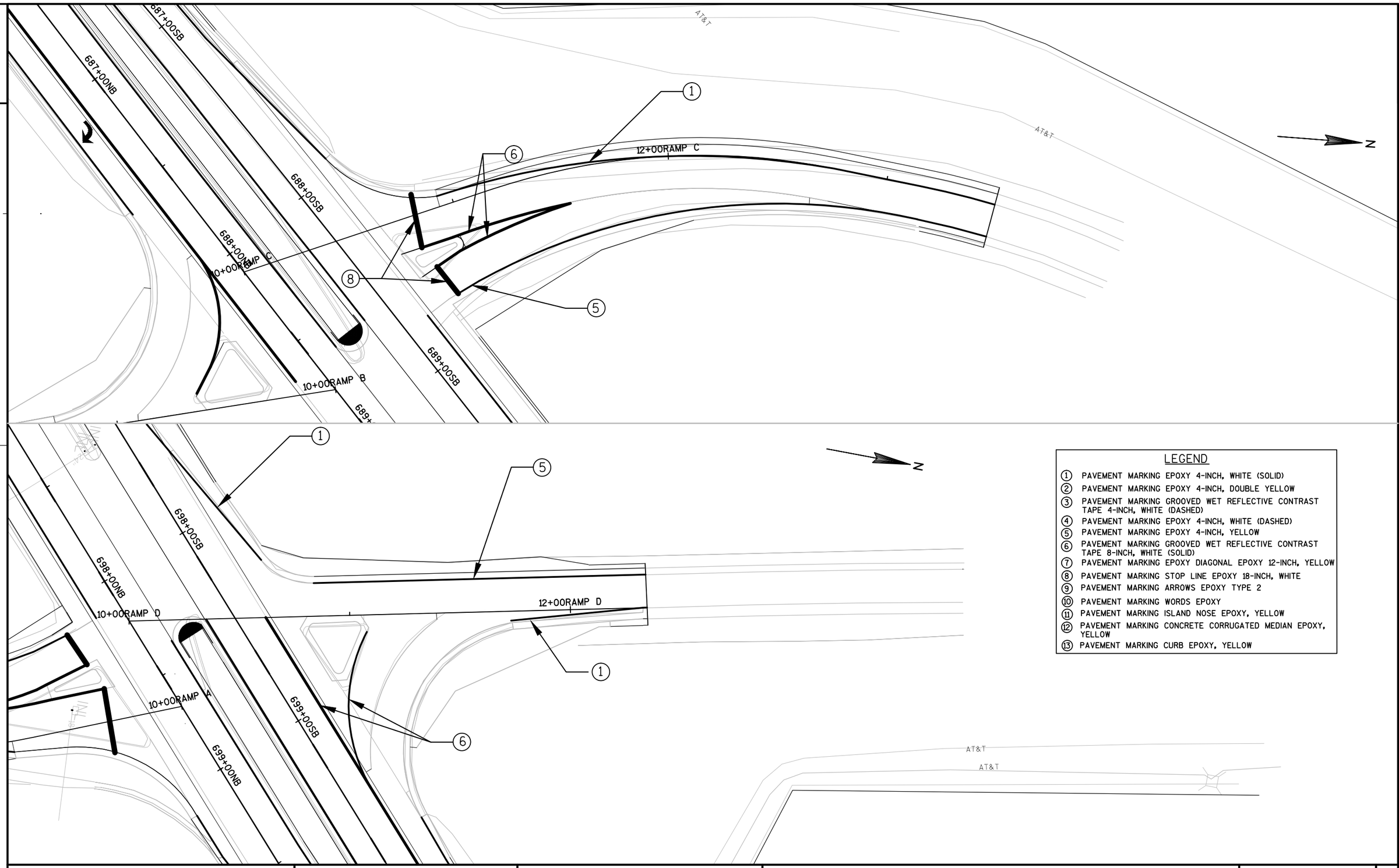
LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH, WHITE (SOLID)
2. PAVEMENT MARKING EPOXY 4-INCH, DOUBLE YELLOW
3. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 4-INCH, WHITE (DASHED)
4. PAVEMENT MARKING EPOXY 4-INCH, WHITE (DASHED)
5. PAVEMENT MARKING EPOXY 4-INCH, YELLOW
6. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH, WHITE (SOLID)
7. PAVEMENT MARKING EPOXY DIAGONAL EPOXY 12-INCH, YELLOW
8. PAVEMENT MARKING STOP LINE EPOXY 18-INCH, WHITE
9. PAVEMENT MARKING ARROWS EPOXY TYPE 2
10. PAVEMENT MARKING WORDS EPOXY
11. PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
12. PAVEMENT MARKING CONCRETE CORRUGATED MEDIAN EPOXY, YELLOW
13. PAVEMENT MARKING CURB EPOXY, YELLOW



PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	PAVEMENT MARKING	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\10-SIGNING & MARKING\PAVE MARKING - STH 73 RECON.DWG PLOT DATE : 5/14/2014 3:00 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT



LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH, WHITE (SOLID)
2. PAVEMENT MARKING EPOXY 4-INCH, DOUBLE YELLOW
3. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 4-INCH, WHITE (DASHED)
4. PAVEMENT MARKING EPOXY 4-INCH, WHITE (DASHED)
5. PAVEMENT MARKING EPOXY 4-INCH, YELLOW
6. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH, WHITE (SOLID)
7. PAVEMENT MARKING EPOXY DIAGONAL EPOXY 12-INCH, YELLOW
8. PAVEMENT MARKING STOP LINE EPOXY 18-INCH, WHITE
9. PAVEMENT MARKING ARROWS EPOXY TYPE 2
10. PAVEMENT MARKING WORDS EPOXY
11. PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
12. PAVEMENT MARKING CONCRETE CORRUGATED MEDIAN EPOXY, YELLOW
13. PAVEMENT MARKING CURB EPOXY, YELLOW

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	PAVEMENT MARKING	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\10-SIGNING & MARKING\PAVE MARKING - STH 73 RECON.DWG PLOT DATE : 5/14/2014 3:00 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

END
ROAD WORK
G20-2A
48" X 24"

AT&T
AT&T

673+00NB
674+00NB
675+00NB
676+00NB
677+00NB
678+00NB

ADAM - COLUMBIA ELECTRIC

ROAD
WORK
AHEAD
W20-1A

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	TRAFFIC CONTROL - STAGE 1	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\11-CONSTRUCTION STAGING\026101_S1.DWG PLOT DATE : 5/20/2014 2:56 PM PLOT BY : WHITE, JEREMY J PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

N

AT&T

AT&T

679+00SB

679+00NB

680+00SB

680+00NB

681+00SB

681+00NB

682+00SB

682+00NB

683+00SB

683+00NB

684+00SB

684+00NB

ADAM-COLUMBIA ELECTRIC

LANE CLOSED
R11-2-L
48"X30"

SHOULDER CLOSED AHEAD
W21-5A

LEGEND

- SIGN ON TEMPORARY SUPPORT
- BARRICADE W/WO SIGN
- DRUM W/WO LIGHT
- EXISTING SIGN
- PERMANENT SIGN
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	TRAFFIC CONTROL - STAGE 1	SHEET 88	E

2

2

AT&T

AT&T

REMOVE CURB & GUTTER TO PLACE 2" OF ASPHALTIC SURFACE TEMPORARY & 8" OF 1 ¼-INCH BASE AGGREGATE DENSE MATERIAL TO ALLOW TURNING MOVEMENTS IN STAGES 2 & 3.

TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH

685+00SB

686+00SB

687+00SB

688+00SB

689+00SB

690+00SB

685+00NB

686+00NB

687+00NB

688+00NB

689+00NB

690+00NB

RIGHT SHOULDER CLOSED AHEAD

W21-5B

MH

LEGEND

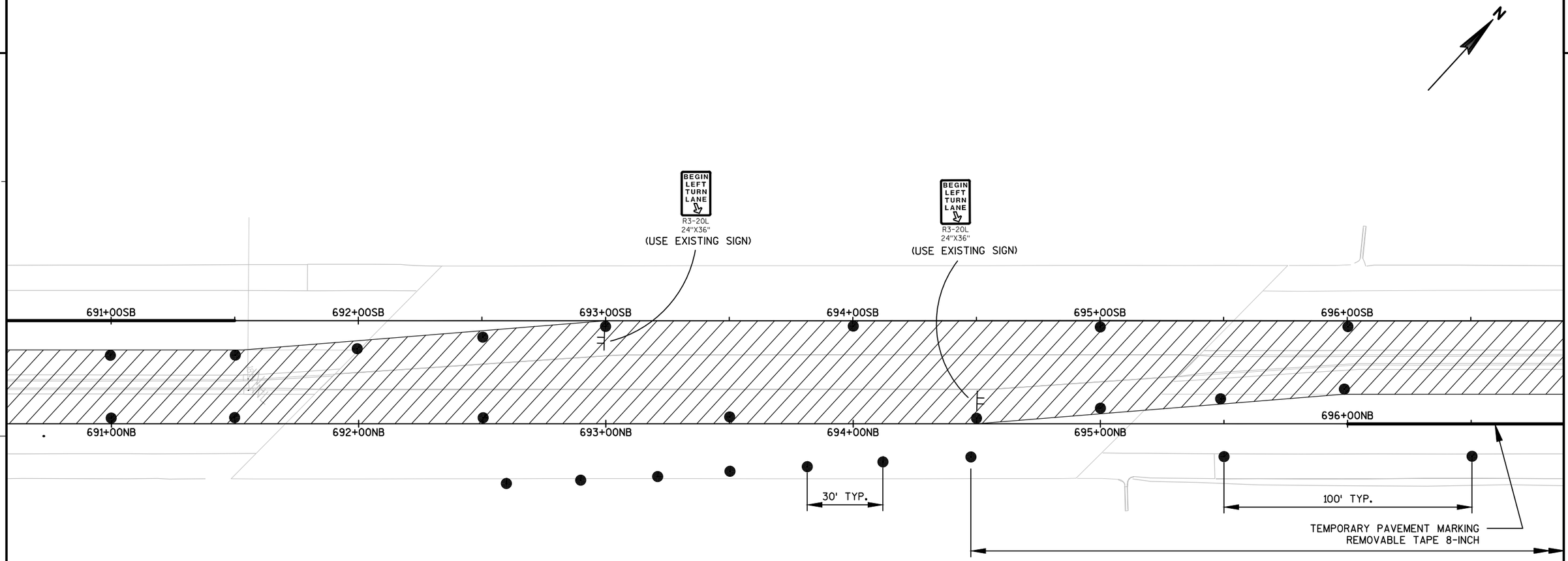
- SIGN ON TEMPORARY SUPPORT
- BARRICADE W/WO SIGN
- DRUM W/WO LIGHT
- EXISTING SIGN
- PERMANENT SIGN
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	TRAFFIC CONTROL - STAGE 1	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\11-CONSTRUCTION STAGING\026101_S1.DWG PLOT DATE : 5/20/2014 2:56 PM PLOT BY : WHITE, JEREMY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2



LEGEND

- SIGN ON TEMPORARY SUPPORT
- BARRICADE W/WO SIGN
- DRUM W/WO LIGHT
- EXISTING SIGN
- PERMANENT SIGN
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	TRAFFIC CONTROL - STAGE 1	SHEET 90	E

2

2

REMOVE CURB & GUTTER TO PLACE 2" OF ASPHALTIC SURFACE TEMPORARY & 8" OF 1 ¼-INCH BASE AGGREGATE DENSE MATERIAL TO ALLOW TURNING MOVEMENTS IN STAGES 2 & 3.

AT&T

AT&T

697+00SB

698+00SB

699+00SB

700+00SB

701+00SB

702+00SB

697+00NB

698+00NB

699+00NB

700+00NB

12' MIN. WIDTH

701+00NB

702+00NB

100' TYP.

500' BUFFER

CONSTRUCT TEMPORARY LANE FOR STAGE TWO TRAFFIC

SPEED LIMIT 45

MOVE EXISTING SIGN NEXT TO TEMPORARY LANE

LEGEND

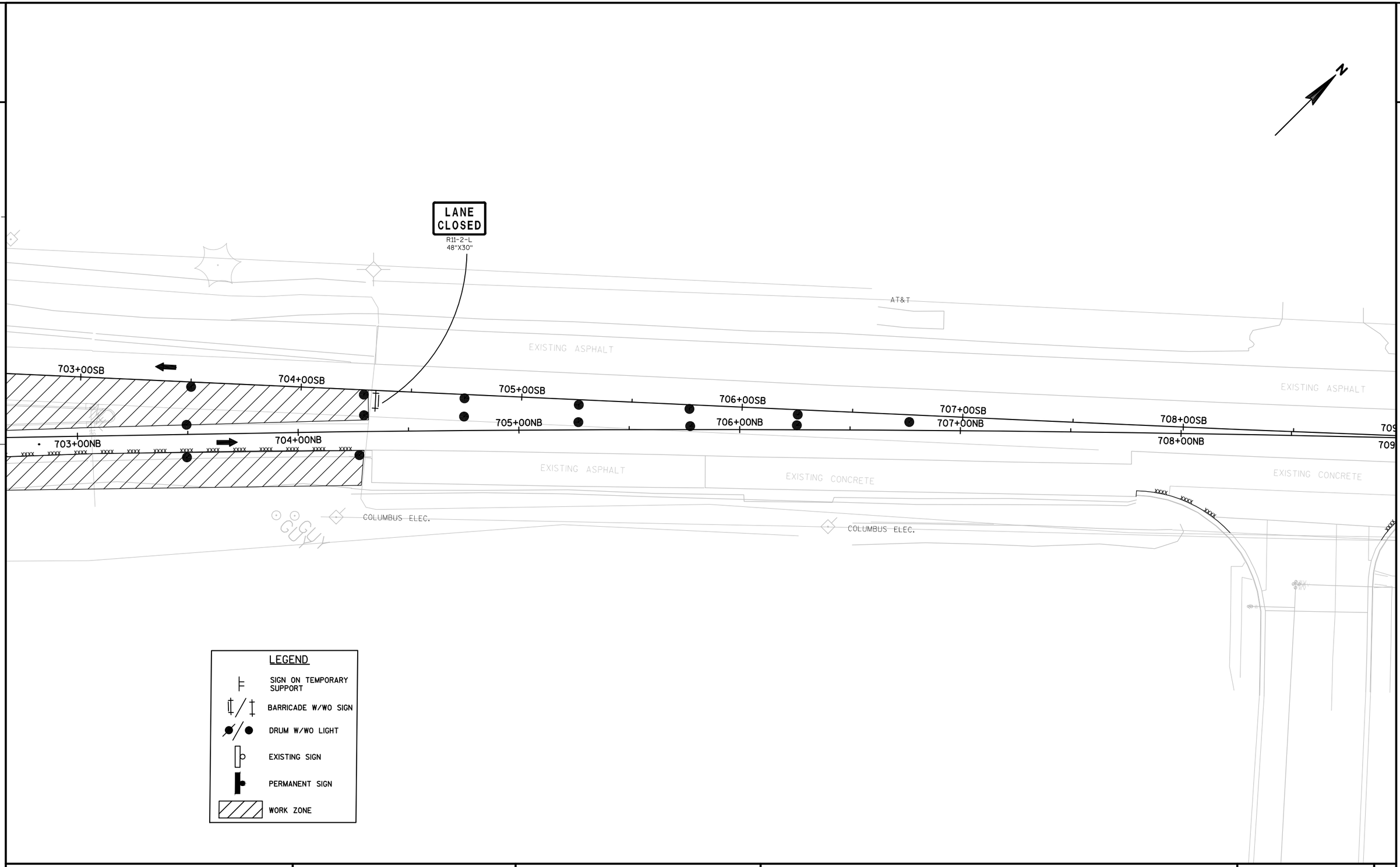
- SIGN ON TEMPORARY SUPPORT
- BARRICADE W/WO SIGN
- DRUM W/WO LIGHT
- EXISTING SIGN
- PERMANENT SIGN
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	TRAFFIC CONTROL - STAGE 1	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\11-CONSTRUCTION STAGING\026101_S1.DWG PLOT DATE : 5/20/2014 2:56 PM PLOT BY : WHITE, JEREMY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



LEGEND

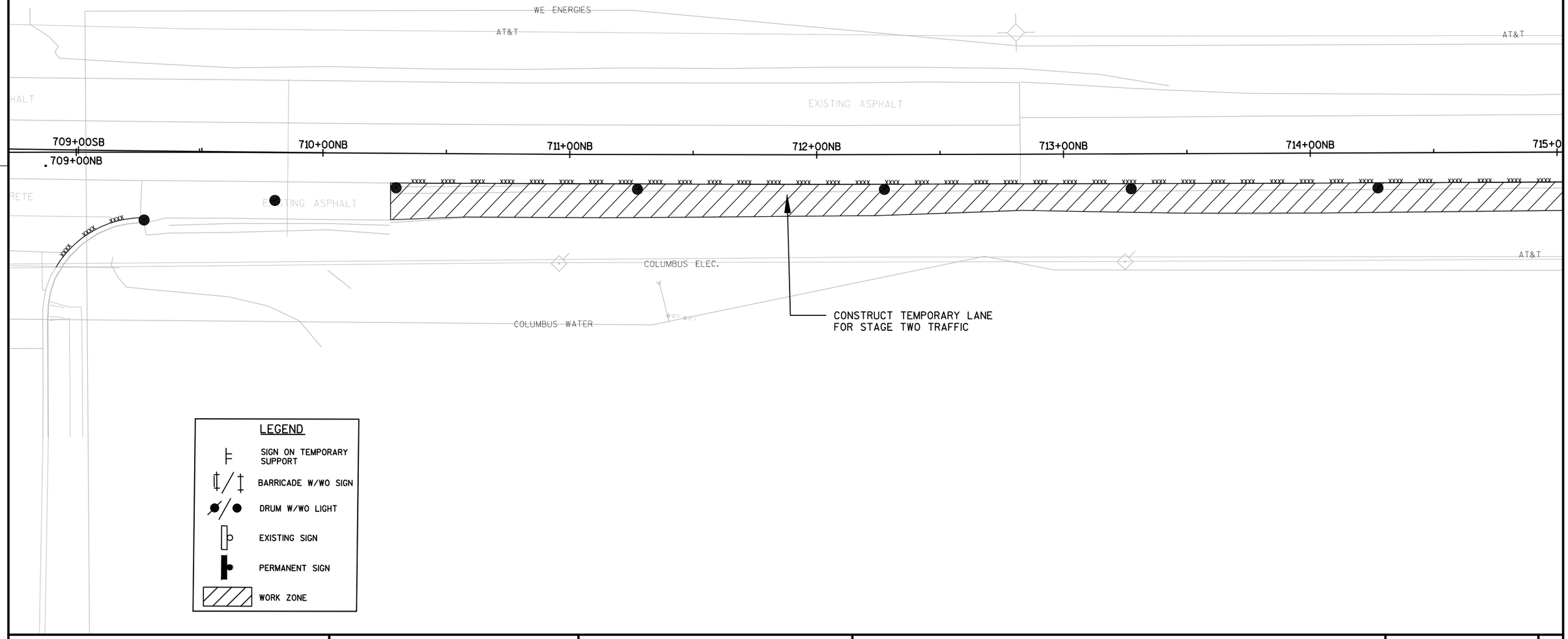
- SIGN ON TEMPORARY SUPPORT
- BARRICADE W/WO SIGN
- DRUM W/WO LIGHT
- EXISTING SIGN
- PERMANENT SIGN
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	TRAFFIC CONTROL - STAGE 1	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\11-CONSTRUCTION STAGING\026101_S1.DWG PLOT DATE : 5/20/2014 2:56 PM PLOT BY : WHITE, JEREMY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2



LEGEND

- SIGN ON TEMPORARY SUPPORT
- BARRICADE W/WO SIGN
- DRUM W/WO LIGHT
- EXISTING SIGN
- PERMANENT SIGN
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	TRAFFIC CONTROL - STAGE 1	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\11-CONSTRUCTION STAGING\026101_S1.DWG PLOT DATE : 5/20/2014 2:56 PM PLOT BY : WHITE, JEREMY J PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

AT&T

WE ENERGIES

AT&T

715+00NB 716+00NB 717+00NB 718+00NB 719+00NB 720+00NB 721+00N

AT&T

COLUMBUS ELEC.

AT&T

COLUMBUS WATER

GUY

ATC

LEGEND

- SIGN ON TEMPORARY SUPPORT
- BARRICADE W/WO SIGN
- DRUM W/WO LIGHT
- EXISTING SIGN
- PERMANENT SIGN
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	TRAFFIC CONTROL - STAGE 1	SHEET 94	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\11-CONSTRUCTION STAGING\026101_S1.DWG PLOT DATE : 5/20/2014 2:56 PM PLOT BY : WHITE, JEREMY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

ROAD WORK AHEAD
W20-1A

1000' FROM END OF WORK ZONE

WE ENERGIES

AT&T

720+00NB | 721+00NB | 722+00NB | 723+00NB | 724+00NB | 724+94NB

AT&T

COLUMBUS ELEC.

COLUMBUS WATER

END ROAD WORK
G20-2A
48" X 24"

LEGEND

- SIGN ON TEMPORARY SUPPORT
- BARRICADE W/WO SIGN
- DRUM W/WO LIGHT
- EXISTING SIGN
- PERMANENT SIGN
- WORK ZONE

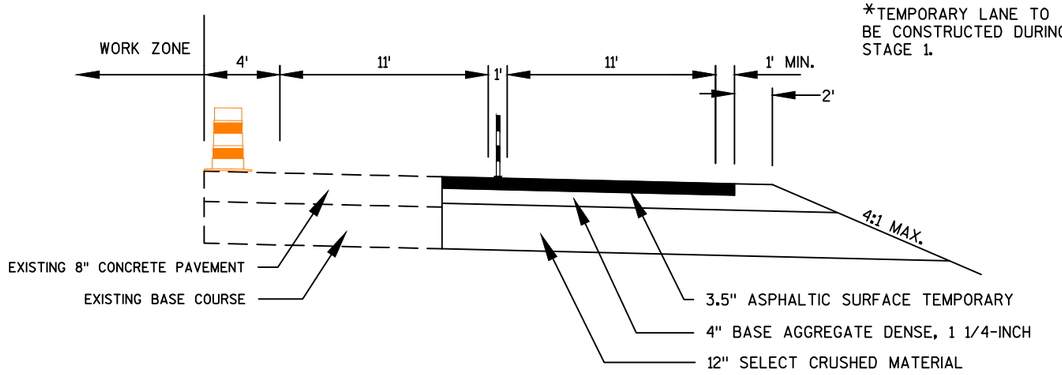
PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	TRAFFIC CONTROL - STAGE 1	SHEET 95	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\11-CONSTRUCTION STAGING\026101_S1.DWG PLOT DATE : 5/20/2014 2:56 PM PLOT BY : WHITE, JEREMY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

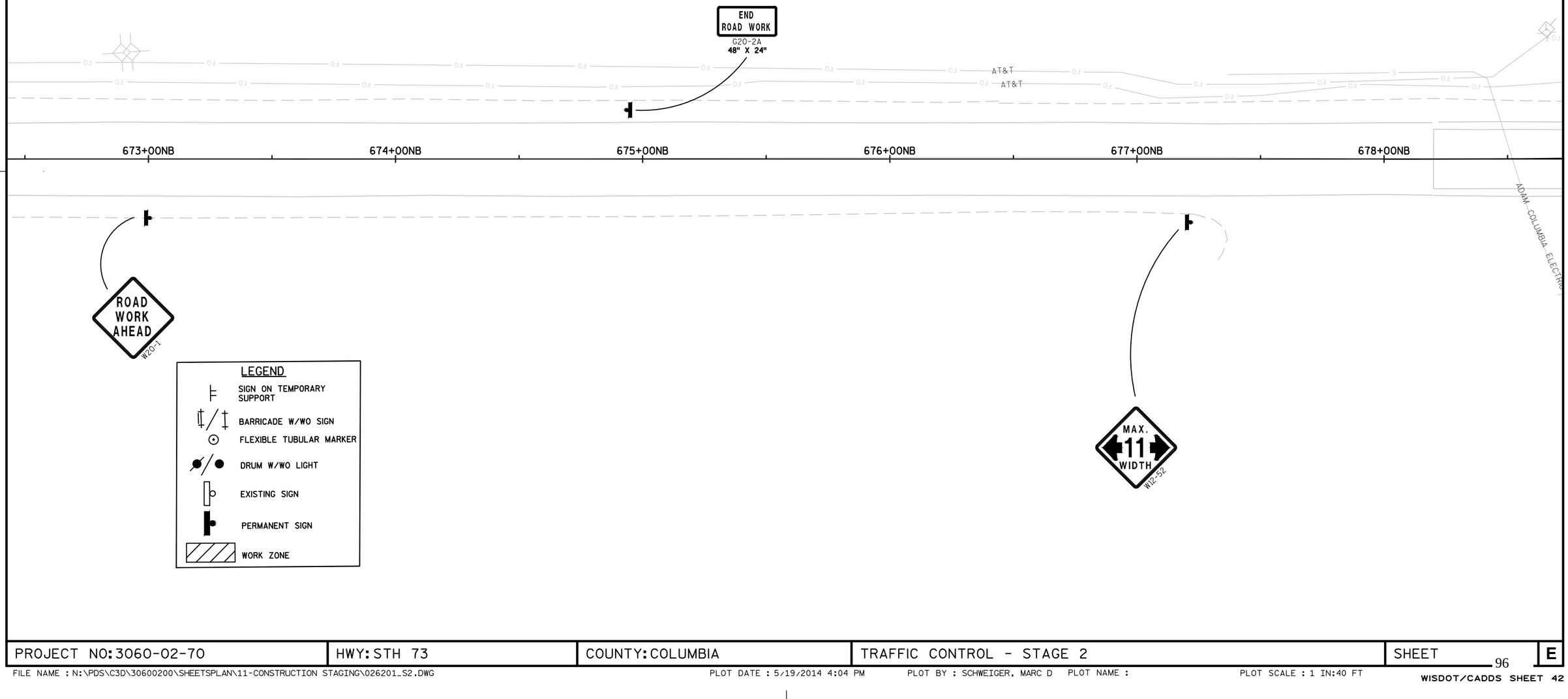
WISDOT/CADDS SHEET 42

2

STAGE 2 TYPICAL SECTION



*TEMPORARY LANE TO BE CONSTRUCTED DURING STAGE 1.



LEGEND

- SIGN ON TEMPORARY SUPPORT
- BARRICADE W/WO SIGN
- FLEXIBLE TUBULAR MARKER
- DRUM W/WO LIGHT
- EXISTING SIGN
- PERMANENT SIGN
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	TRAFFIC CONTROL - STAGE 2	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\11-CONSTRUCTION STAGING\026201_S2.DWG PLOT DATE : 5/19/2014 4:04 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

AT&T
AT&T

679+00SB
679+00NB
680+00SB
680+00NB
681+00SB
681+00NB
682+00SB
682+00NB
683+00SB
683+00NB
684+00SB
684+00NB

11'
11'

REMOVE EXISTING
CONFLICTING PAVEMENT
MARKINGS

WHITE EDGELINE, TEMPORARY
PAVEMENT MARKING 4-INCH

DOUBLE YELLOW, TEMPORARY
PAVEMENT MARKING 4-INCH

ADAM-COLUMBIA ELECTRIC

W1-4R
48"X48"

LEGEND

- SIGN ON TEMPORARY SUPPORT
- BARRICADE W/WO SIGN
- FLEXIBLE TUBULAR MARKER
- DRUM W/WO LIGHT
- EXISTING SIGN
- PERMANENT SIGN
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	TRAFFIC CONTROL - STAGE 2	SHEET 97	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\11-CONSTRUCTION STAGING\026201_S2.DWG PLOT DATE : 5/19/2014 4:04 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

AT&T

AT&T

12+00RAMP

TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH

PLACE AGGREGATE ROAD FOR EMERGENCY VEH. ACCESS DURING RAMP CLOSURES. PLACE 8" OF BASE AGGREGATE DENSE 1-1/4" ON TOP OF 12" OF SELECT CRUSHED MATERIAL.

N

STOP
R1-1
36"X36"

2" OF ASPHALTIC SURFACE TEMPORARY ON TOP OF 8" BASE AGGREGATE DENSE 1-1/4"

11+00RAMP C

REMOVE CURB & GUTTER; PLACE ASPH. SURF. TEMPORARY

685+00SB

686+00SB

687+00SB

688+00SB

689+00SB

690+00SB

15'

685+00NB

686+00NB

687+00NB

688+00NB

689+00NB

690+00NB

50' TYP.

11'

11'

10+00RAMP C

WHITE EDGELINE, TEMPORARY PAVEMENT MARKING 4-INCH

DOUBLE YELLOW, TEMPORARY PAVEMENT MARKING 4-INCH

DOUBLE YELLOW, TEMPORARY PAVEMENT MARKING 4-INCH

MH

LEGEND

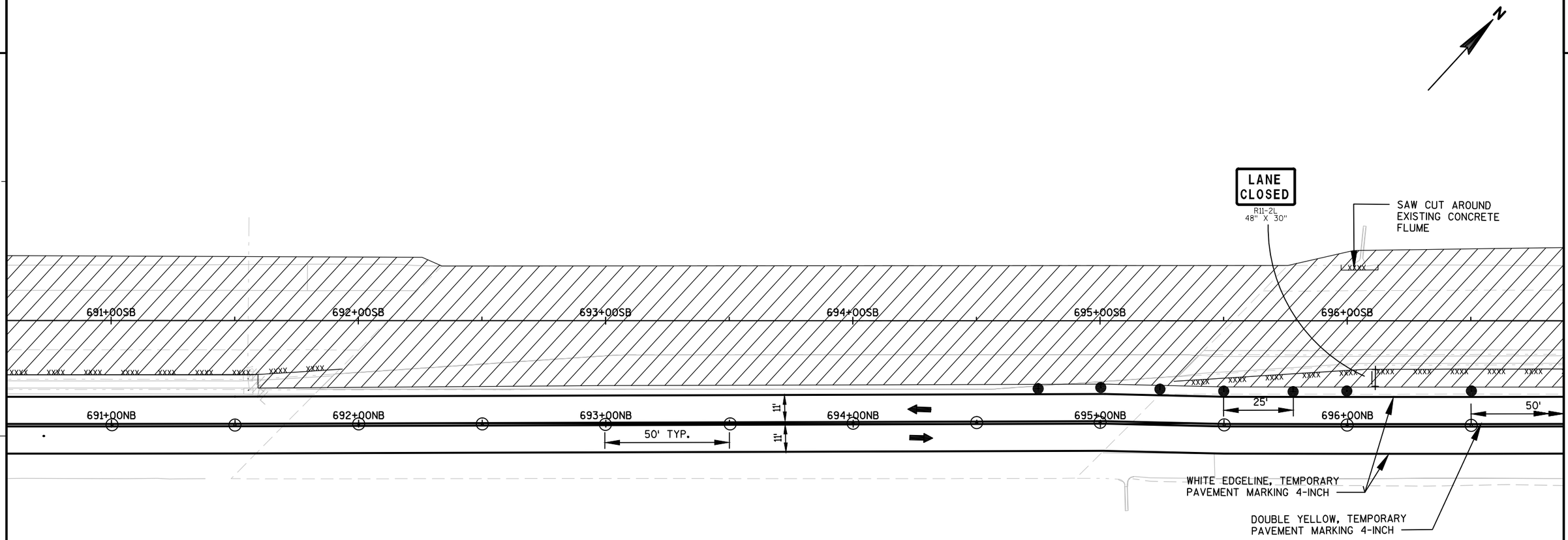
- SIGN ON TEMPORARY SUPPORT
- BARRICADE W/WO SIGN
- FLEXIBLE TUBULAR MARKER
- DRUM W/WO LIGHT
- EXISTING SIGN
- PERMANENT SIGN
- WORK ZONE

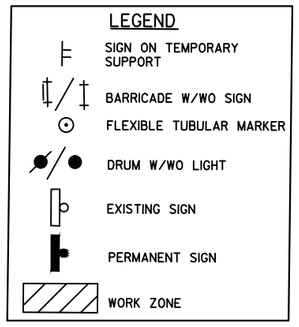
PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	TRAFFIC CONTROL - STAGE 2	SHEET E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\11-CONSTRUCTION STAGING\026201_S2.DWG PLOT DATE : 5/19/2014 4:05 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2





PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	TRAFFIC CONTROL - STAGE 2	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\11-CONSTRUCTION STAGING\026201_S2.DWG PLOT DATE : 5/19/2014 4:05 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

PLACE AGGREGATE ROAD FOR EMERGENCY VEH. ACCESS DURING RAMP CLOSURES. PLACE 8" OF BASE AGGREGATE DENSE 1-1/4" ON TOP OF 12" OF SELECT CRUSHED MATERIAL.

2" OF ASPHALTIC SURFACE TEMPORARY ON TOP OF 8" OF BASE AGGREGATE DENSE 1-1/4"

12+00RAMP D

11+00RAMP D

10+00RAMP D

697+00SB

698+00SB

699+00SB

700+00SB

701+00SB

702+00SB

50'

697+00NB

698+00NB

699+00NB

50' TYP.

700+00NB

11'

11'

701+00NB

702+00NB

WHITE EDGELINE, TEMPORARY PAVEMENT MARKING 4-INCH

ASPHALTIC SURFACE TEMPORARY

DOUBLE YELLOW, TEMPORARY PAVEMENT MARKING 4-INCH

W1-4R
30"X30"

AT&T

AT&T

LEGEND

- SIGN ON TEMPORARY SUPPORT
- BARRICADE W/WO SIGN
- FLEXIBLE TUBULAR MARKER
- DRUM W/WO LIGHT
- EXISTING SIGN
- PERMANENT SIGN
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	TRAFFIC CONTROL - STAGE 2	SHEET E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\11-CONSTRUCTION STAGING\026201_S2.DWG PLOT DATE : 5/19/2014 4:05 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

SAWCUT 5 FT. FROM EDGE
OF EXISTING CONCRETE

703+00SB
704+00SB
705+00SB
706+00SB
707+00SB
708+00SB

703+00NB
704+00NB
705+00NB
706+00NB
707+00NB
708+00NB

50' TYP.

25' TYP.

EXISTING ASPHALT

EXISTING CONCRETE

AT&T

COLUMBUS ELEC.

COLUMBUS ELEC.

WHITE EDGELINE, TEMPORARY
PAVEMENT MARKING 4-INCH

DOUBLE YELLOW, TEMPORARY
PAVEMENT MARKING 4-INCH

LEGEND

- SIGN ON TEMPORARY SUPPORT
- BARRICADE W/WO SIGN
- FLEXIBLE TUBULAR MARKER
- DRUM W/WO LIGHT
- EXISTING SIGN
- PERMANENT SIGN
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	TRAFFIC CONTROL - STAGE 2	SHEET 101	E

2

LANE CLOSED
R11-2L
48" X 30"

SAWCUT 5 FT. FROM EDGE OF EXISTING CONCRETE

START WHITE EDGELINE, TEMPORARY PAVEMENT MARKING REFLECTIVE TAPE 4-INCH

START DOUBLE YELLOW, TEMPORARY PAVEMENT MARKING REFLECTIVE TAPE 4-INCH

WE ENERGIES

AT&T

709+00SB

709+00NB

710+00NB

711+00NB

712+00NB

50' TYP.

713+00NB

714+00NB

715+00NB

11'

11'

EXISTING ASPHALT

WHITE EDGELINE, TEMPORARY PAVEMENT MARKING 4-INCH

COLUMBUS ELEC.

DOUBLE YELLOW, TEMPORARY PAVEMENT MARKING 4-INCH

ASPHALTIC SURFACE TEMPORARY

REMOVE EXISTING CONFLICTING PAVEMENT MARKINGS

COLUMBUS WATER

LEGEND

- SIGN ON TEMPORARY SUPPORT
- BARRICADE W/WO SIGN
- FLEXIBLE TUBULAR MARKER
- DRUM W/WO LIGHT
- EXISTING SIGN
- PERMANENT SIGN
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	TRAFFIC CONTROL - STAGE 2	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\11-CONSTRUCTION STAGING\026201_S2.DWG PLOT DATE : 5/19/2014 4:05 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

W01-6
48"X24"

REMOVE EXISTING
CONFLICTING PAVEMENT
MARKINGS

SHIFT TO 11' LANE

SHOULDER TAPER

715+00NB

716+00NB

717+00NB

718+00NB

719+00NB

720+00NB

721+00N

50'

WHITE EDGELINE, TEMPORARY PAVEMENT
MARKING REFLECTIVE TAPE 4-INCH

DOUBLE YELLOW, PAVEMENT MARKING
REFLECTIVE TAPE 4-INCH

AT&T

WE ENERGIES

COLUMBUS ELEC.

COLUMBUS WATER

AT&T

AT&T

ATC

OH

UG

GUY

N

LEGEND

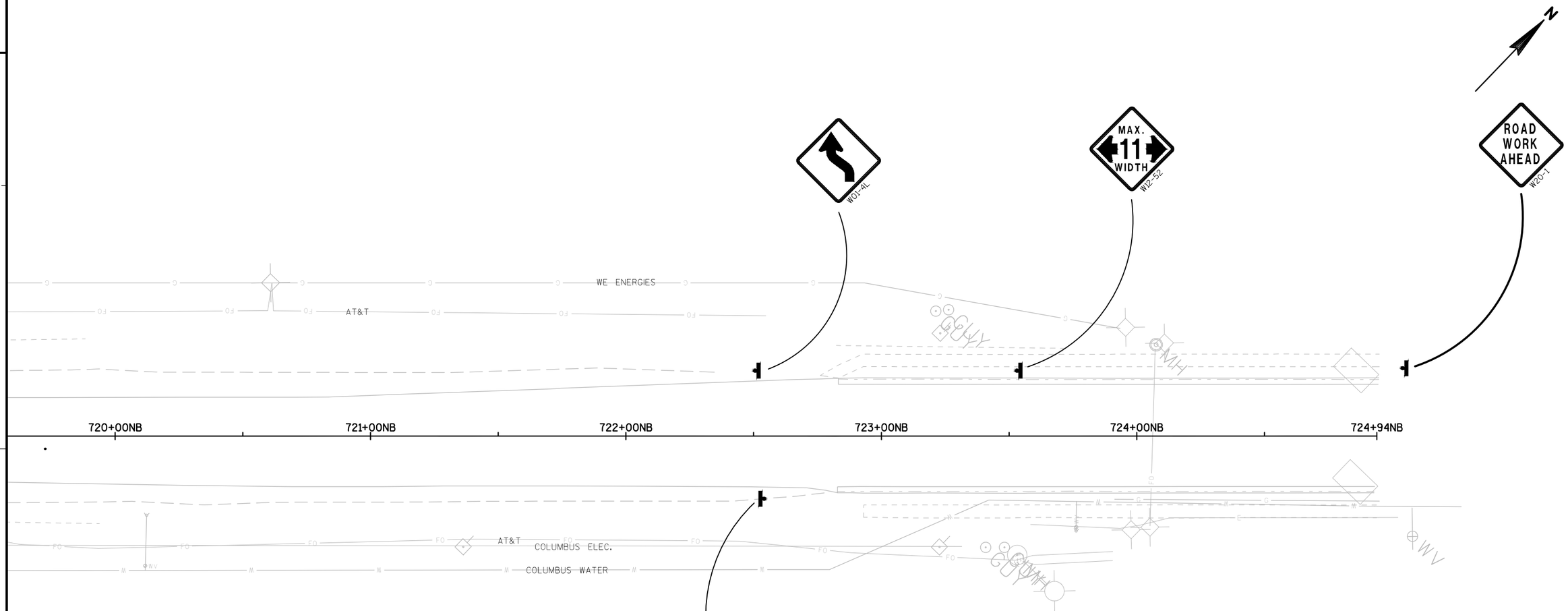
- SIGN ON TEMPORARY SUPPORT
- BARRICADE W/WO SIGN
- FLEXIBLE TUBULAR MARKER
- DRUM W/WO LIGHT
- EXISTING SIGN
- PERMANENT SIGN
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	TRAFFIC CONTROL - STAGE 2	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\11-CONSTRUCTION STAGING\026201_S2.DWG PLOT DATE : 5/19/2014 4:05 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



2

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	TRAFFIC CONTROL - STAGE 2	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\11-CONSTRUCTION STAGING\026201_S2.DWG PLOT DATE : 5/19/2014 4:05 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- SIGN ON TEMPORARY SUPPORT
- BARRICADE W/WO SIGN
- FLEXIBLE TUBULAR MARKER
- DRUM W/WO LIGHT
- EXISTING SIGN
- PERMANENT SIGN
- WORK ZONE

N

AT&T

14+00RAMP C

13+00RAMP C

12+00RAMP C

11+00RAMP C

10+00RAMP C

TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH

PLACE AGGREGATE ROAD FOR EMERGENCY VEH. ACCESS DURING RAMP CLOSURES. PLACE 8" OF BASE AGGREGATE DENSE 1-1/4" ON TOP OF 12" OF SELECT CRUSHED MATERIAL.

STOP
R1-1
36"X36"

2" OF ASPHALTIC SURFACE TEMPORARY ON TOP OF 8" BASE AGGREGATE DENSE 1-1/4"

687+00SB 688+00SB 689+00SB 690+00SB 691+00SB 692+00SB 693+0

687+00NB 688+00NB 689+00NB 690+00NB 691+00NB 692+00NB 693+0

11' 11'

15'

WHITE EDGELINE, TEMPORARY PAVEMENT MARKING 4-INCH

DOUBLE YELLOW, TEMPORARY PAVEMENT MARKING 4-INCH

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	TRAFFIC CONTROL - STAGE 2; RAMP C	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\11-CONSTRUCTION STAGING\026201_S2.DWG PLOT DATE : 5/19/2014 4:05 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

N

D9-2 24"X24" H M06-1 21"X21" (ON OFF RAMP)

D9-2 36"X36" H M06-2 30"X30" (ON OFF RAMP)

D9-2 36"X36" H M05-2R 30"X30"

TO NORTH 151 M4-5 24"X12" M3-1 24"X12" M1-4 24"X24"

RAMP CLOSED AHEAD W20-3(MOD) 48"X48"

Columbus Exits	
HWY 73-Bus 151	3 3/4
HWY 16	3 3/4

DURING RAMP CLOSURE ONLY

PCMS

M4-8A 24"X18" END DETOUR NORTH 151 M3-1 24"X12" M1-4 24"X24"

D9-2 24"X24" H M06-1 21"X21"

M4-5 24"X12" TO 73 M1-6 24"X24" M06-1 21"X21"

M4-5 24"X12" TO 73 M1-6 24"X24" M06-1 21"X21"

Sun Prairie	14
Madison	25

M4-5 24"X12" TO NORTH 151 M3-1 24"X12" M1-4 24"X24"

RAMP CLOSED AHEAD W20-3(MOD) 48"X48"

PREWARN PCMS ONLY

PCMS PREWARN ONLY

NORTH 151 M3-1 24"X12" M1-4 24"X24"

DETOUR AHEAD W20-2A 48"X48"

M4-8 24"X12" DETOUR NORTH 151 SOUTH 151

M4-8 24"X12" DETOUR NORTH 151 BUSINESS 151 NORTH 73 M06-1 21"X21"

Ⓐ BUS 151 73 COLUMBUS MARSHALL RAMP CLOSED

Ⓑ HOSPITAL EXIT 115

Ⓒ BUS 151 73 COLUMBUS MARSHALL RAMP CLOSED

Ⓓ EXIT 115

LEGEND

- SIGN MOUNTED ON POST(S)
- SIGN ON TEMPORARY SUPPORT
- SIGN DOUBLE STEEL SUPPORT
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN
- WORK AREA

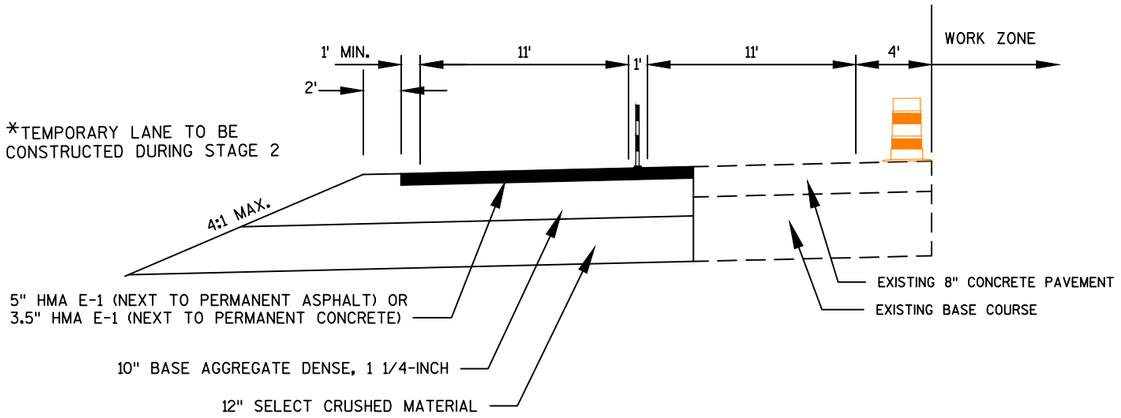
① DETOUR M4-8 24"X12" NORTH M3-1 24"X12" 151 M1-4 24"X24"

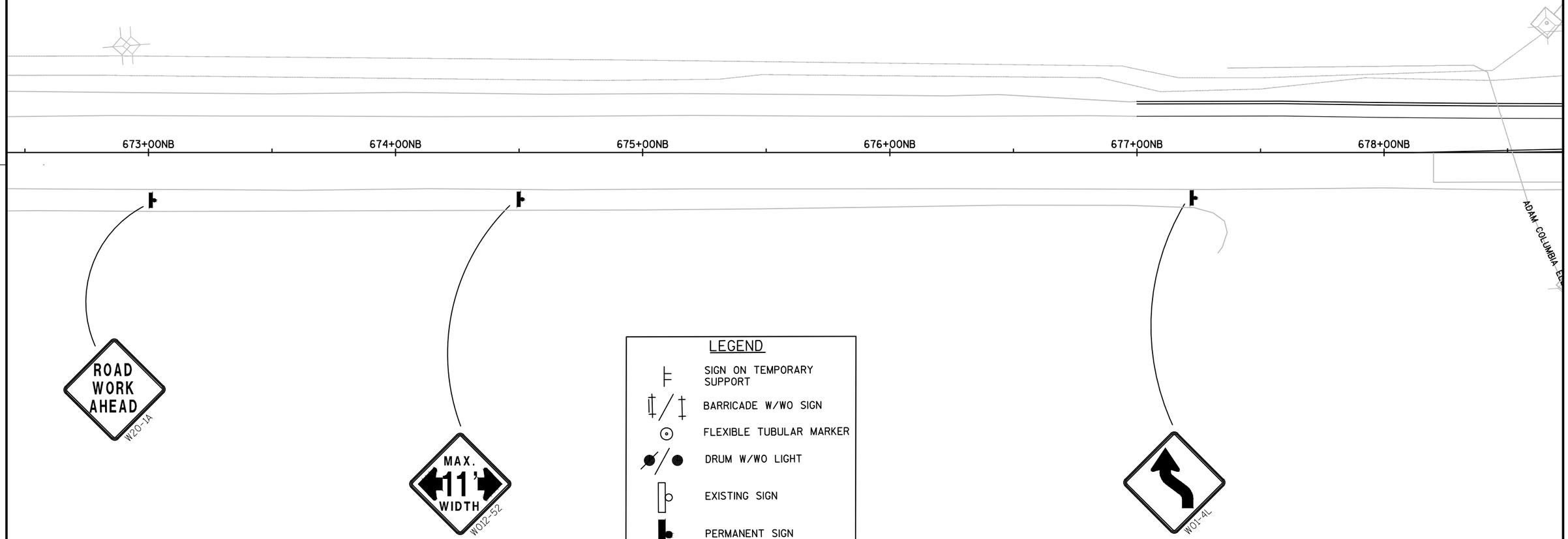
② DETOUR M4-8 24"X12" NORTH M3-1 24"X12" 151 M1-4 24"X24" M06-1 21"X21"

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	DETOUR FOR STAGE 2 RAMP CLOSURE	SHEET 106	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\11-CONSTRUCTION STAGING\026200_S2.DWG PLOT DATE : 6/9/2014 10:56 AM PLOT BY : WHITE, JEREMY J PLOT NAME : PLOT SCALE : 0.000118

STAGE 3 TYPICAL SECTION





LEGEND

- SIGN ON TEMPORARY SUPPORT
- BARRICADE W/WO SIGN
- FLEXIBLE TUBULAR MARKER
- DRUM W/WO LIGHT
- EXISTING SIGN
- PERMANENT SIGN
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CONSTRUCTION STAGING - STAGE 3	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\11-CONSTRUCTION STAGING\026301_S3.DWG PLOT DATE : 5/19/2014 1:01 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

AT&T

AT&T

AT&T

AT&T

REMOVE EXISTING CONFLICTING
PAVEMENT MARKING

679+00SB
679+00NB
680+00SB
680+00NB
681+00SB
681+00NB
682+00SB
682+00NB
683+00SB
683+00NB
684+00SB
684+00NB

11'
11'

ADAM COLUMBIA ELECTRIC

WHITE EDGELINE, TEMPORARY PAVEMENT
MARKING REFLECTIVE TAPE 4-INCH

DOUBLE YELLOW, PAVEMENT MARKING
REFLECTIVE TAPE 4-INCH

ASPHALTIC SURFACE TEMPORARY

W01-6
48"X24"

LEGEND

- SIGN ON TEMPORARY SUPPORT
- BARRICADE W/WO SIGN
- FLEXIBLE TUBULAR MARKER
- DRUM W/WO LIGHT
- EXISTING SIGN
- PERMANENT SIGN
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CONSTRUCTION STAGING - STAGE 3	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\11-CONSTRUCTION STAGING\026301_S3.DWG PLOT DATE : 5/19/2014 1:01 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

- SIGN ON TEMPORARY SUPPORT
- BARRICADE W/WO SIGN
- FLEXIBLE TUBULAR MARKER
- DRUM W/WO LIGHT
- EXISTING SIGN
- PERMANENT SIGN
- WORK ZONE

N

AT&T

AT&T

WHITE EDGELINE, TEMPORARY PAVEMENT MARKING REFLECTIVE TAPE 4-INCH

DOUBLE YELLOW, TEMPORARY PAVEMENT MARKING REFLECTIVE TAPE 4-INCH

DOUBLE YELLOW, TEMPORARY PAVEMENT MARKING 4-INCH

WHITE EDGELINE, TEMPORARY PAVEMENT MARKING 4-INCH

685+00SB

686+00SB

687+00SB

688+00SB

689+00SB

690+00SB

50' TYP.

11'

11'

685+00NB

686+00NB

687+00NB

688+00NB

689+00NB

690+00NB

10+00RAMP B

9+00RAMP B

8+00RAMP B

ASPHALTIC SURFACE TEMPORARY

LANE CLOSED

R11-2L
48" X 30"

MH

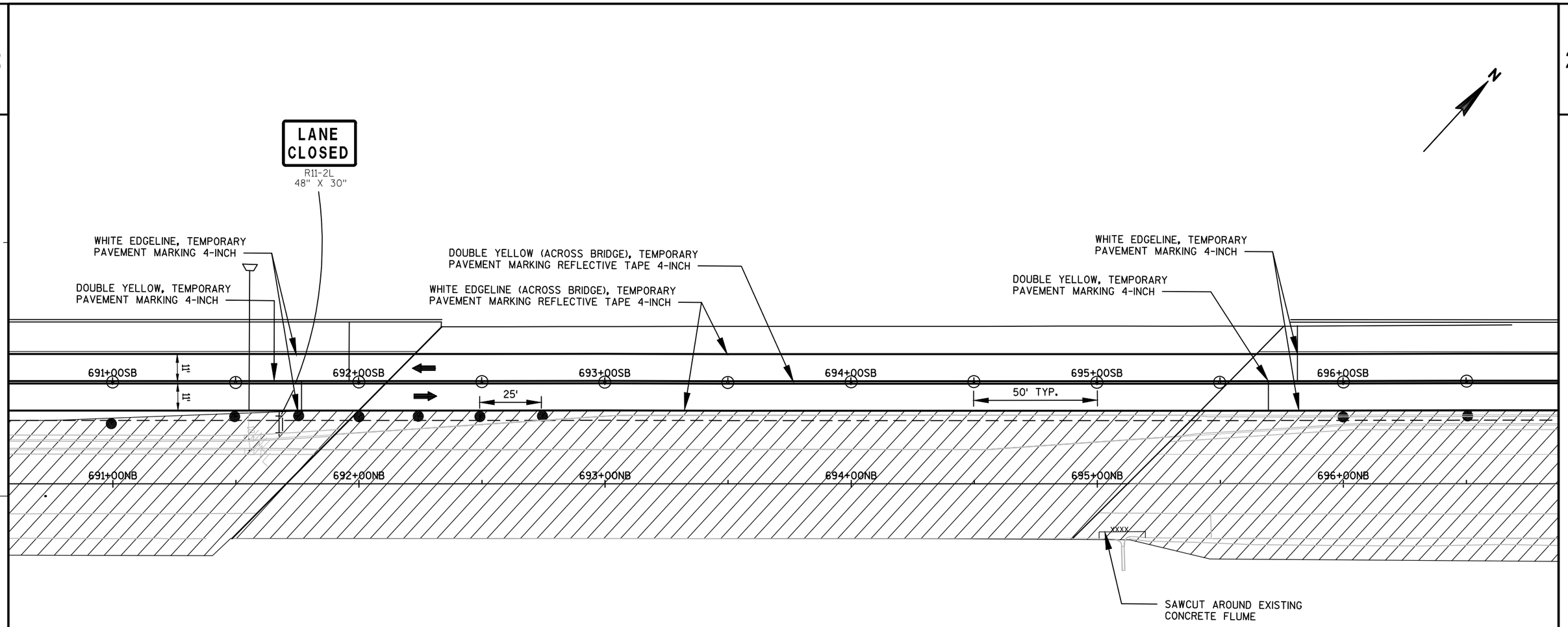
PLACE AGGREGATE ROAD FOR EMERGENCY VEH. ACCESS DURING RAMP CLOSURES. PLACE 8" OF BASE AGGREGATE DENSE 1-1/4" ON TOP OF 12" OF SELECT CRUSHED MATERIAL.

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CONSTRUCTION STAGING - STAGE 3	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\11-CONSTRUCTION STAGING\026301_S3.DWG PLOT DATE : 5/19/2014 1:01 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



LEGEND

- SIGN ON TEMPORARY SUPPORT
- BARRICADE W/WO SIGN
- FLEXIBLE TUBULAR MARKER
- DRUM W/WO LIGHT
- EXISTING SIGN
- PERMANENT SIGN
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CONSTRUCTION STAGING - STAGE 3	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\11-CONSTRUCTION STAGING\026301_S3.DWG PLOT DATE : 5/19/2014 1:01 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

AT&T
AT&T

N

WHITE EDGELINE, TEMPORARY
PAVEMENT MARKING 4-INCH

TEMPORARY PAVEMENT MARKING STOP
LINE REMOVABLE TAPE 12-INCH

DOUBLE YELLOW, TEMPORARY
PAVEMENT MARKING 4-INCH

11'
11'

697+00SB
698+00SB
699+00SB
700+00SB
701+00SB
702+00SB

50' TYP.

697+00NB
698+00NB
699+00NB
700+00NB
701+00NB
702+00NB

10+00RAMP A

9+00RAMP A

8+00RAMP A

STOP
R1-1
36"X36"

PLACE AGGREGATE ROAD FOR EMERGENCY VEH.
ACCESS DURING RAMP CLOSURES. PLACE 8" OF
BASE AGGREGATE DENSE 1-1/4" ON TOP OF 12" OF
SELECT CRUSHED MATERIAL.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- BARRICADE W/WO SIGN
- FLEXIBLE TUBULAR MARKER
- DRUM W/WO LIGHT
- EXISTING SIGN
- PERMANENT SIGN
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CONSTRUCTION STAGING - STAGE 3	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\11-CONSTRUCTION STAGING\026301_S3.DWG PLOT DATE : 5/19/2014 1:01 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

WHITE EDGELINE, TEMPORARY PAVEMENT MARKING
REFLECTIVE TAPE 4-INCH

DOUBLE YELLOW, TEMPORARY PAVEMENT MARKING
REFLECTIVE TAPE 4-INCH

TEMPORARY PAVEMENT MARKING STOP
LINE REMOVABLE TAPE 12-INCH

AT&T

AT&T

EXISTING ASPHALT

703+00SB

704+00SB

705+00SB

706+00SB

707+00SB

708+00SB

11'

11'

50' TYP.

703+00NB

704+00NB

705+00NB

706+00NB

707+00NB

708+00NB

EXISTING ASPHALT

EXISTING CONCRETE

EXISTING CONCRETE

AT&T

COLUMBUS ELEC.

COLUMBUS ELEC.

SAWCUT 1' AWAY FROM JOINT LINE
WITH MAINLINE CONCRETE PAVEMENT

GAP PART OF STREET ENTRANCE TO ACCOMMODATE
SEMI-TRUCK AND CAR ACCESS AT ALL TIMES

STOP
R1-1
36"X36"

LEGEND

- SIGN ON TEMPORARY SUPPORT
- BARRICADE W/WO SIGN
- FLEXIBLE TUBULAR MARKER
- DRUM W/WO LIGHT
- EXISTING SIGN
- PERMANENT SIGN
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CONSTRUCTION STAGING - STAGE 3	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\11-CONSTRUCTION STAGING\026301_S3.DWG PLOT DATE : 5/19/2014 1:01 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

WHITE EDGELINE, TEMPORARY PAVEMENT MARKING
REFLECTIVE TAPE 4-INCH

DOUBLE YELLOW, TEMPORARY PAVEMENT MARKING
REFLECTIVE TAPE 4-INCH

WE ENERGIES

AT&T

HMA PAVEMENT TYPE E-1

11'
EXISTING ASPHALT
11'

EXISTING ASPHALT

50' TYP.

709+00SB
709+00NB
710+00NB
711+00NB
712+00NB
713+00NB
714+00NB
715+0

AT&T

SAWCUT 1' AWAY FROM JOINT LINE
WITH MAINLINE CONCRETE PAVEMENT

COLUMBUS ELEC.

COLUMBUS WATER

REMOVE TEMPORARY LANE USED IN STAGE 2.
MAY SAWCUT FROM STA 712+82 TO STA 717+00 TO CREATE A 6'
WIDE SHOULDER (5' ASPHALTIC, 1' AGGREGATE). RESTORE SLOPES TO
EXISTING CONDITION PRIOR TO OPENING TO TRAFFIC.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- BARRICADE W/WO SIGN
- FLEXIBLE TUBULAR MARKER
- DRUM W/WO LIGHT
- EXISTING SIGN
- PERMANENT SIGN
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CONSTRUCTION STAGING - STAGE 3	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\11-CONSTRUCTION STAGING\026301_S3.DWG PLOT DATE : 5/19/2014 1:01 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

WHITE EDGELINE, TEMPORARY PAVEMENT MARKING REFLECTIVE TAPE 4-INCH

DOUBLE YELLOW, TEMPORARY PAVEMENT MARKING REFLECTIVE TAPE 4-INCH

WE ENERGIES

HMA PAVEMENT TYPE E-1

REMOVE EXISTING CONFLICTING PAVEMENT MARKING

50' TYP.

40'

715+00NB

716+00NB

717+00NB

718+00NB

719+00NB

720+00NB

721+00N

11'

11'

12'

12'

W01-4R

COLUMBUS ELEC.

COLUMBUS WATER

ATC

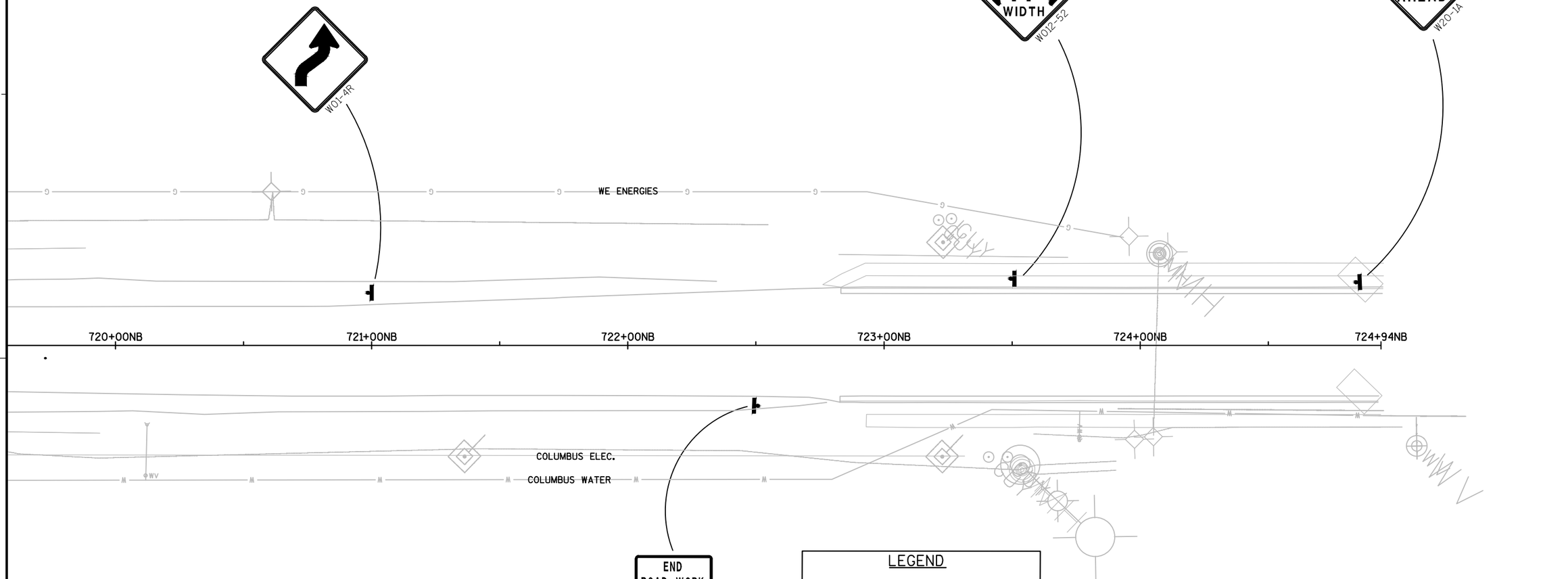
LEGEND

- SIGN ON TEMPORARY SUPPORT
- BARRICADE W/WO SIGN
- FLEXIBLE TUBULAR MARKER
- DRUM W/WO LIGHT
- EXISTING SIGN
- PERMANENT SIGN
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CONSTRUCTION STAGING - STAGE 3	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\11-CONSTRUCTION STAGING\026301_S3.DWG PLOT DATE : 5/19/2014 1:01 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

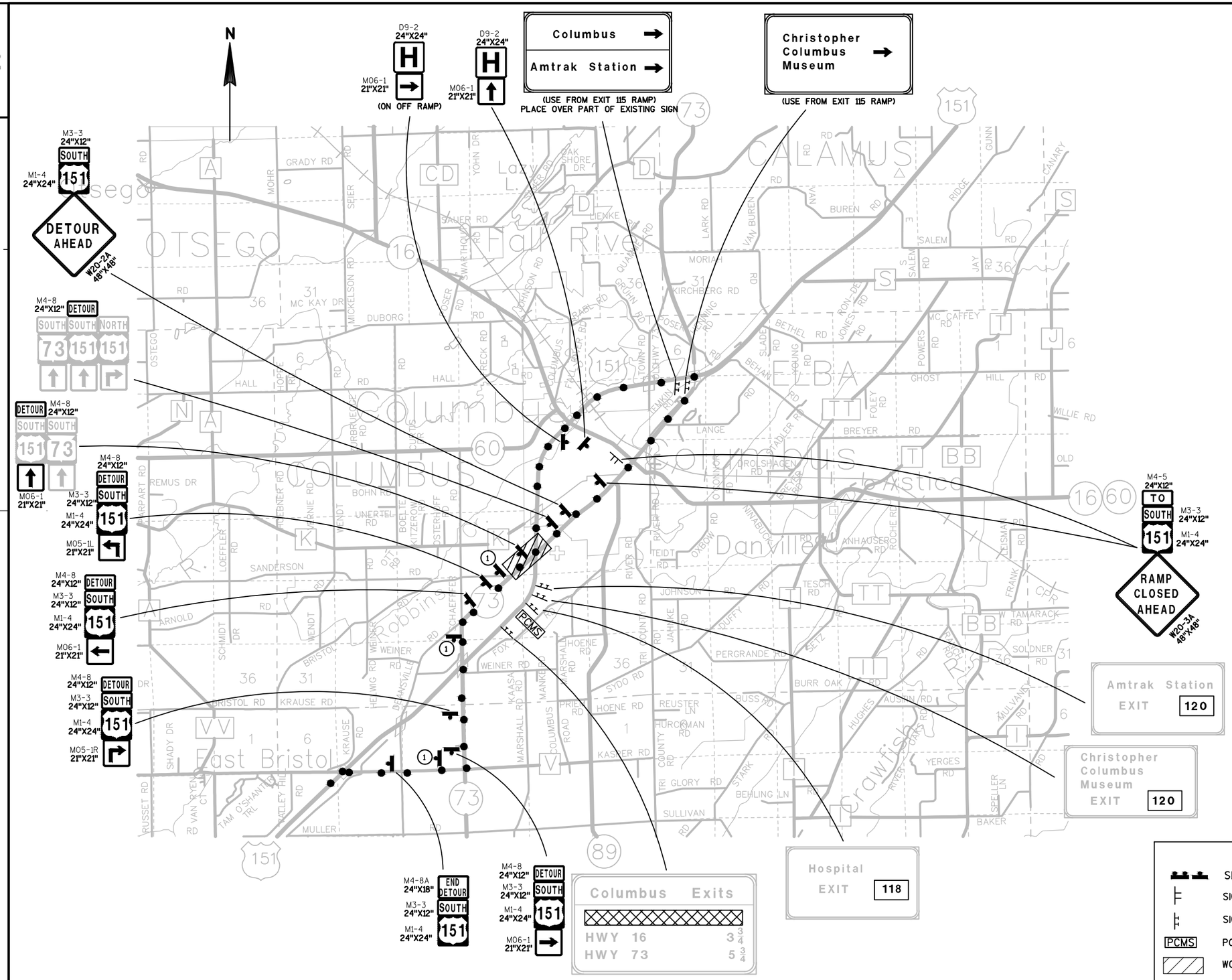


LEGEND

- SIGN ON TEMPORARY SUPPORT
- BARRICADE W/WO SIGN
- FLEXIBLE TUBULAR MARKER
- DRUM W/WO LIGHT
- EXISTING SIGN
- PERMANENT SIGN
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CONSTRUCTION STAGING - STAGE 3	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\11-CONSTRUCTION STAGING\026301_S3.DWG PLOT DATE : 5/19/2014 1:02 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT


N
D9-2 24"X24"
H
M06-1 21"X21"
(ON OFF RAMP)
D9-2 24"X24"
H
M06-1 21"X21"
Columbus
Amtrak Station
(USE FROM EXIT 115 RAMP)
PLACE OVER PART OF EXISTING SIGN
Christopher Columbus Museum
(USE FROM EXIT 115 RAMP)
M3-3 24"X12"
SOUTH
M1-4 24"X24"
151
DETOUR AHEAD
W20-2A 48"X48"
M4-8 24"X12" DETOUR
SOUTH SOUTH NORTH
73 151 151
DETOUR M4-8 24"X12"
SOUTH SOUTH
151 73
M06-1 21"X21"
M4-8 24"X12" DETOUR
M3-3 24"X12" SOUTH
M1-4 24"X24" 151
M05-1L 21"X21"
M4-8 24"X12" DETOUR
M3-3 24"X12" SOUTH
M1-4 24"X24" 151
M06-1 21"X21"
M4-8 24"X12" DETOUR
M3-3 24"X12" SOUTH
M1-4 24"X24" 151
M05-1R 21"X21"
M4-8A 24"X18" END DETOUR
M3-3 24"X12" SOUTH
M1-4 24"X24" 151
M4-8 24"X12" DETOUR
M3-3 24"X12" SOUTH
M1-4 24"X24" 151
M06-1 21"X21"
M4-5 24"X12" TO
M3-3 24"X12" SOUTH
M1-4 24"X24" 151
RAMP CLOSED AHEAD
W20-3A 48"X48"
PCMS
Columbus Exits
HWY 16 3 3/4
HWY 73 5 3/4
Hospital EXIT 118
Amtrak Station EXIT 120
Christopher Columbus Museum EXIT 120
Sauk City
Lodi
Portage
Wisconsin Dells
Baraboo
Reedsburg
Madison
Watertown
Fort Atkinson
Whitewater
Janesville
Beloit
Rockford
Milwaukee
Racine
Kenosha
Waukesha
Oconomowoc
Fond du Lac
Oshkosh
Appleton
Green Bay
Manitowoc
Sheboygan
Port Washington
Mayville
Hartford
West Bend
Jefferson
Lake Mills
Waterloo
Columbus

2

2

N

PROJECT 3060-02-32
WORK TO BE DONE
CONCURRENT WITH STAGE 4

673+00NB

674+00NB

675+00NB

676+00NB

677+00NB

678+00NB

LEGEND

- SIGN ON TEMPORARY SUPPORT
- BARRICADE W/WO SIGN
- FLEXIBLE TUBULAR MARKER
- DRUM W/WO LIGHT
- EXISTING SIGN
- PERMANENT SIGN
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CONSTRUCTION STAGING - STAGE 4	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\11-CONSTRUCTION STAGING\026401_S4.DWG PLOT DATE : 5/19/2014 1:09 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

500

679+00SB
679+00NB

680+00SB
680+00NB

681+00SB
681+00NB

682+00SB
682+00NB

683+00SB
683+00NB

684+00SB
684+00NB

MH

LEGEND

- SIGN ON TEMPORARY SUPPORT
- BARRICADE W/WO SIGN
- FLEXIBLE TUBULAR MARKER
- DRUM W/WO LIGHT
- EXISTING SIGN
- PERMANENT SIGN
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CONSTRUCTION STAGING - STAGE 4	SHEET 118	E

2

ROAD WORK AHEAD
W20-1A

500'

ROAD CLOSED TO THRU TRAFFIC
R11-4
60" X 30"

N

685+00SB
686+00SB
687+00SB
688+00SB
689+00SB
690+00SB

685+00NB
686+00NB
687+00NB
688+00NB
689+00NB
690+00NB

2

PROVIDE ACCESS FOR LOCAL TRAFFIC TO & FROM WEST OF THE INTERCHANGE AT ALL TIMES.

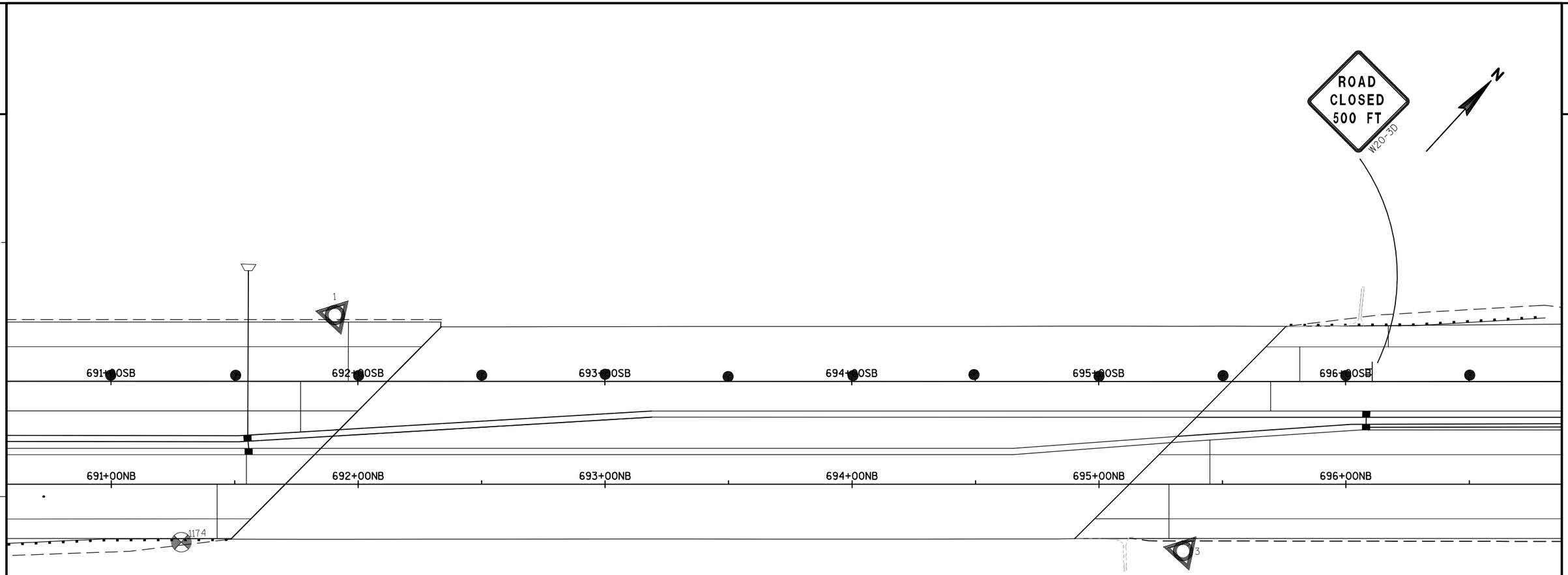
LEGEND

- SIGN ON TEMPORARY SUPPORT
- BARRICADE W/WO SIGN
- FLEXIBLE TUBULAR MARKER
- DRUM W/WO LIGHT
- EXISTING SIGN
- PERMANENT SIGN
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CONSTRUCTION STAGING - STAGE 4	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\11-CONSTRUCTION STAGING\026401_S4.DWG PLOT DATE : 5/19/2014 1:09 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



LEGEND

- SIGN ON TEMPORARY SUPPORT
- BARRICADE W/WO SIGN
- FLEXIBLE TUBULAR MARKER
- DRUM W/WO LIGHT
- EXISTING SIGN
- PERMANENT SIGN
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CONSTRUCTION STAGING - STAGE 4	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\11-CONSTRUCTION STAGING\026401_S4.DWG PLOT DATE : 5/19/2014 1:09 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LANE CLOSED
R11-2(MOD)
48" X 30"

ROAD CLOSED 1000 FT
W20-3C

N

TEMPORARY PAVEMENT MARKING
REFLECTIVE TAPE 4-INCH

BEGIN TAPER
STA. 702+50

697+00SB
698+00SB
699+00SB
700+00SB
701+00SB
702+00SB

697+00NB
698+00NB
699+00NB
700+00NB
701+00NB
702+00NB

LEGEND

- SIGN ON TEMPORARY SUPPORT
- BARRICADE W/WO SIGN
- FLEXIBLE TUBULAR MARKER
- DRUM W/WO LIGHT
- EXISTING SIGN
- PERMANENT SIGN
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CONSTRUCTION STAGING - STAGE 4	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\11-CONSTRUCTION STAGING\026401_S4.DWG PLOT DATE : 5/19/2014 1:09 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

W01-4L

N

703+00SB
704+00SB
705+00SB
706+00SB
707+00SB
708+00SB
703+00NB
704+00NB
705+00NB
706+00NB
707+00NB
708+00NB

LEGEND

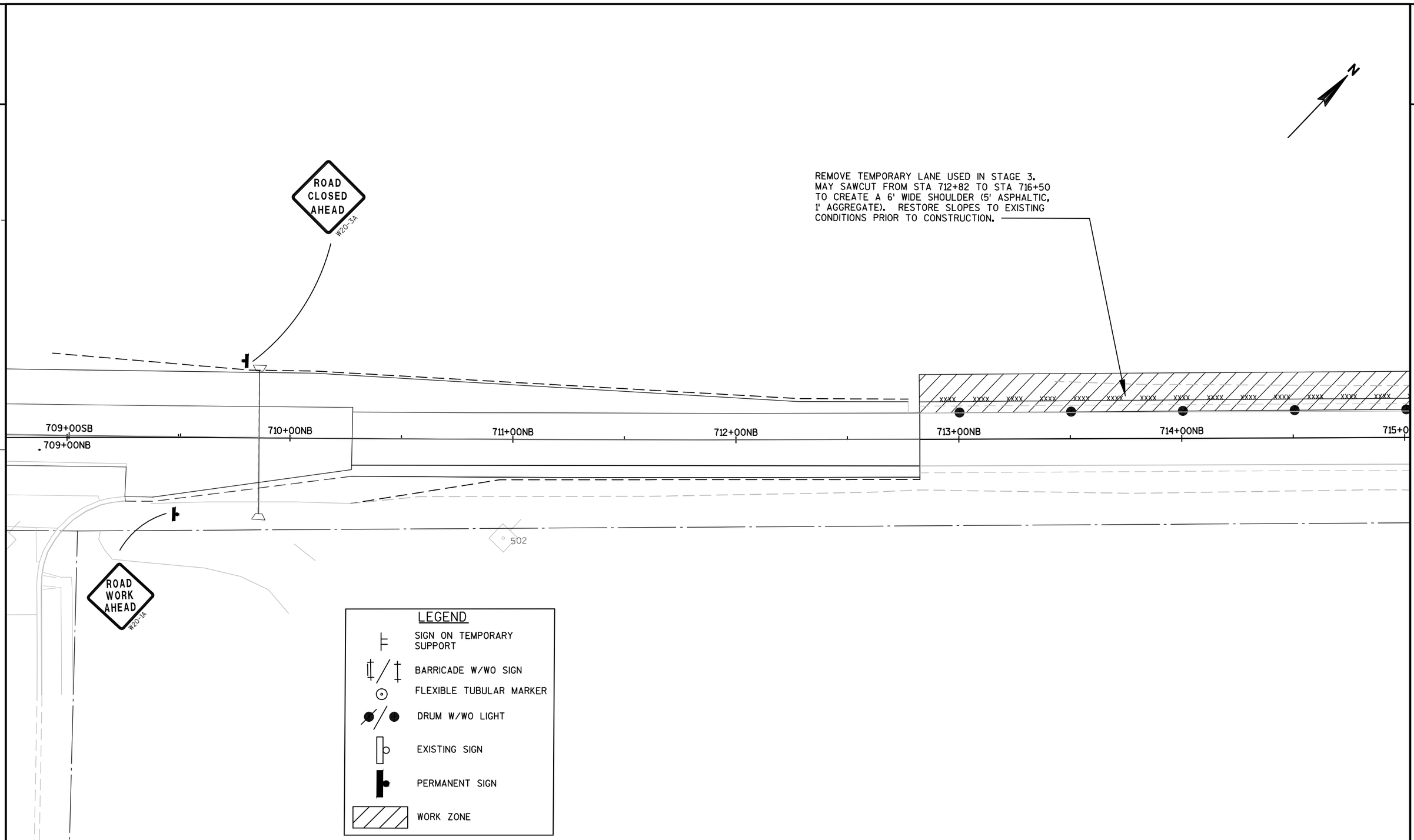
- SIGN ON TEMPORARY SUPPORT
- BARRICADE W/WO SIGN
- FLEXIBLE TUBULAR MARKER
- DRUM W/WO LIGHT
- EXISTING SIGN
- PERMANENT SIGN
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CONSTRUCTION STAGING - STAGE 4	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\11-CONSTRUCTION STAGING\026401_S4.DWG PLOT DATE : 5/19/2014 1:09 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CONSTRUCTION STAGING - STAGE 4	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\11-CONSTRUCTION STAGING\026401_S4.DWG PLOT DATE : 5/19/2014 1:09 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

REMOVE TEMPORARY LANE USED IN STAGE 3. MAY SAWCUT FROM STA 712+82 TO STA 716+50 TO CREATE A 6' WIDE SHOULDER (5' ASPHALTIC, 1' AGGREGATE). RESTORE SLOPES TO EXISTING CONDITIONS PRIOR TO CONSTRUCTION.

N

715+00NB 716+00NB 717+00NB 718+00NB 719+00NB 720+00NB 721+00N

LEGEND

- SIGN ON TEMPORARY SUPPORT
- BARRICADE W/WO SIGN
- FLEXIBLE TUBULAR MARKER
- DRUM W/WO LIGHT
- EXISTING SIGN
- PERMANENT SIGN
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CONSTRUCTION STAGING - STAGE 4	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\11-CONSTRUCTION STAGING\026401_S4.DWG PLOT DATE : 5/19/2014 1:09 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

SHOULDER WORK
W21-5

ROAD WORK AHEAD
W20-1A

350'

720+00NB | 721+00NB | 722+00NB | 723+00NB | 724+00NB | 724+94NB

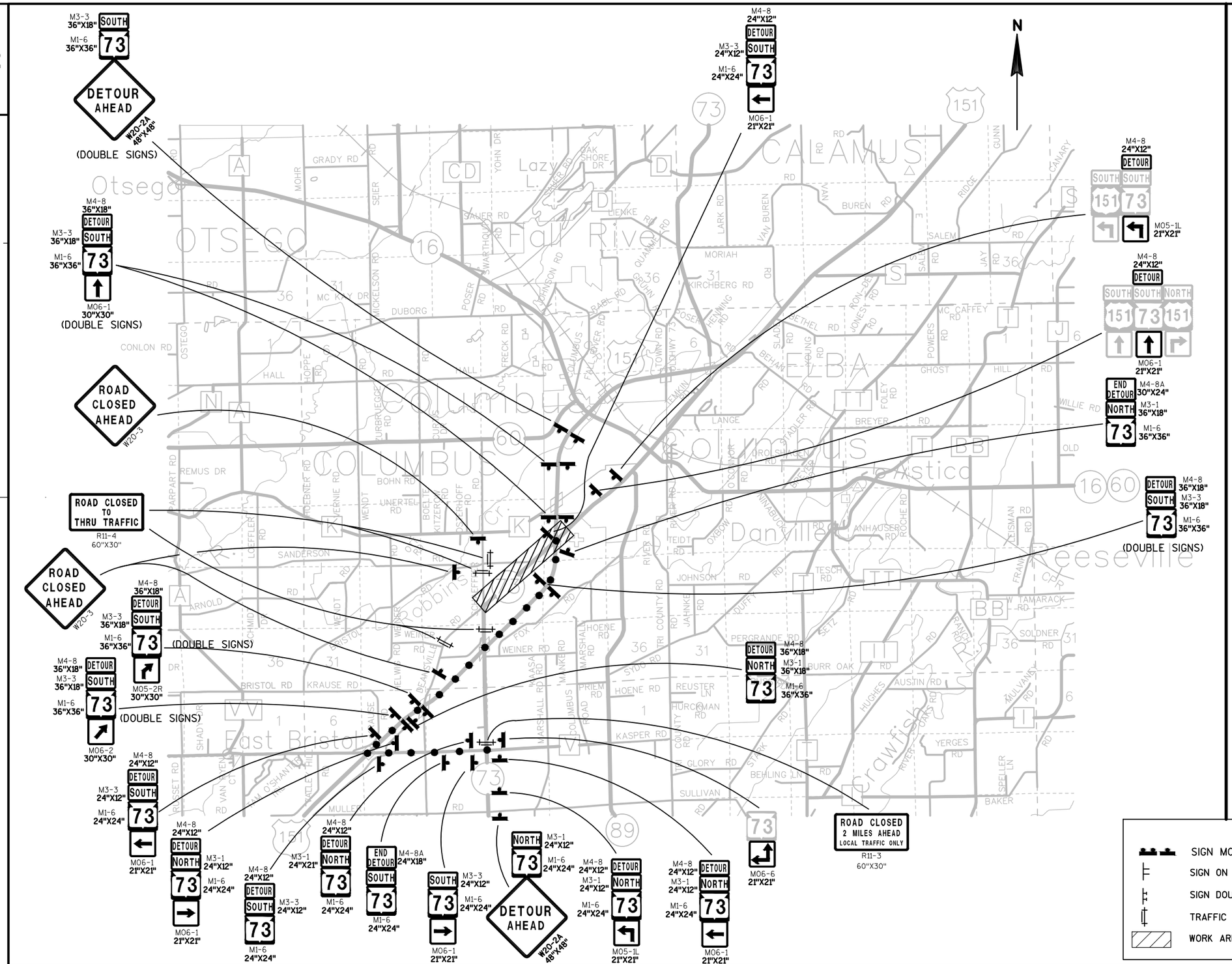
END ROAD WORK
G20-2A
48" X 24"

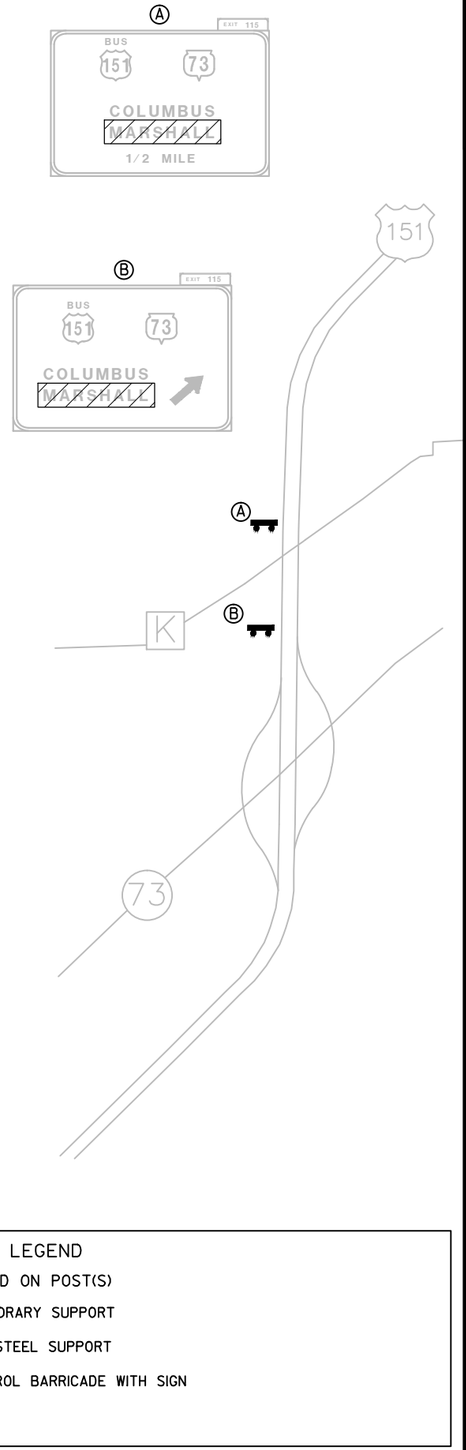
LEGEND

- SIGN ON TEMPORARY SUPPORT
- BARRICADE W/WO SIGN
- FLEXIBLE TUBULAR MARKER
- DRUM W/WO LIGHT
- EXISTING SIGN
- PERMANENT SIGN
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CONSTRUCTION STAGING - STAGE 4	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\11-CONSTRUCTION STAGING\026401_S4.DWG PLOT DATE : 5/19/2014 1:09 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42





LEGEND

- SIGN MOUNTED ON POST(S)
- SIGN ON TEMPORARY SUPPORT
- SIGN DOUBLE STEEL SUPPORT
- TRAFFIC CONTROL BARRICADE WITH SIGN
- WORK AREA

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	DETOUR FOR STAGE 4 ROAD CLOSURE	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\11-CONSTRUCTION STAGING\026400_S4.DWG PLOT DATE : 6/9/2014 12:44 PM PLOT BY : WHITE, JEREMY J PLOT NAME : PLOT SCALE : 0.000118

2

2

673+00NB

674+00NB

675+00NB

676+00NB

677+00NB

678+00NB

AT&T

AT&T

ADAM - COLUMBIA ELECTRIC

ROAD WORK AHEAD

W20-1A

LEFT LANE CLOSED AHEAD

W20-5SA

LEGEND

SIGN ON TEMPORARY SUPPORT

BARRICADE W/WO SIGN

FLEXIBLE TUBULAR MARKER

DRUM W/WO LIGHT

EXISTING SIGN

PERMANENT SIGN

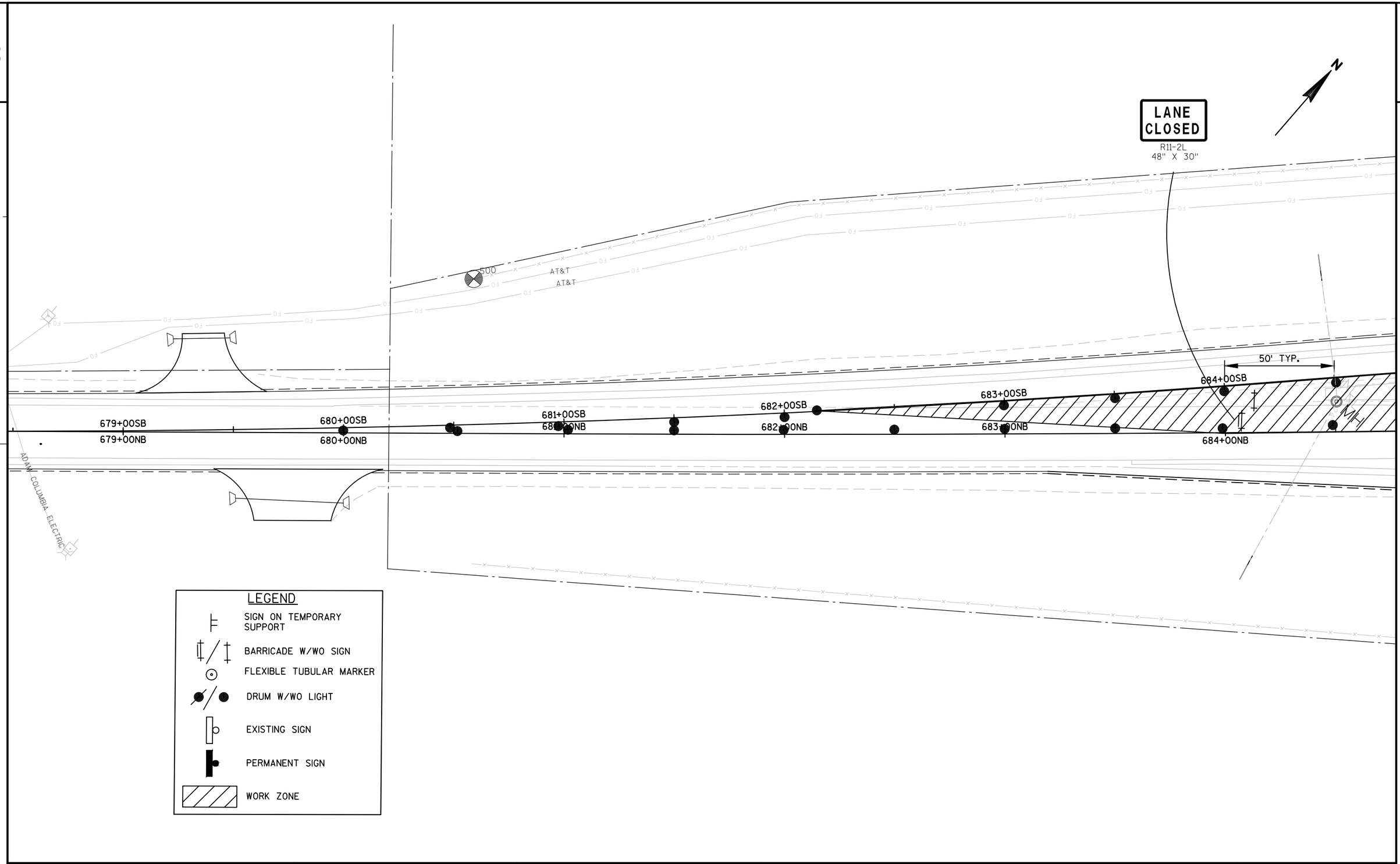
WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CONSTRUCTION STAGING - STAGE 5	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\11-CONSTRUCTION STAGING\026501_S5.DWG PLOT DATE : 5/19/2014 1:11 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



LEGEND

- SIGN ON TEMPORARY SUPPORT
- BARRICADE W/WO SIGN
- FLEXIBLE TUBULAR MARKER
- DRUM W/WO LIGHT
- EXISTING SIGN
- PERMANENT SIGN
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CONSTRUCTION STAGING - STAGE 5	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\11-CONSTRUCTION STAGING\026501_S5.DWG PLOT DATE : 5/19/2014 1:11 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

AT&T

AT&T

LANE CLOSED
R11-2L
48" X 30"

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 8-INCH

685+00SB
686+00SB
687+00SB
688+00SB
689+00SB
690+00SB

50' TYP.

685+00NB
686+00NB
687+00NB
688+00NB
689+00NB
690+00NB

50' TYP.

MH

MH

2

LEGEND

- SIGN ON TEMPORARY SUPPORT
- BARRICADE W/WO SIGN
- FLEXIBLE TUBULAR MARKER
- DRUM W/WO LIGHT
- EXISTING SIGN
- PERMANENT SIGN
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CONSTRUCTION STAGING - STAGE 5	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\11-CONSTRUCTION STAGING\026501_S5.DWG PLOT DATE : 5/19/2014 1:11 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

BEGIN LEFT TURN LANE
R3-20L
24"X36"

691+00SB 692+00SB 25' 693+00SB 694+00SB 695+00SB 696+00SB

50' TYP.

691+00NB 50' TYP. 692+00NB 693+00NB 694+00NB 695+00NB 25' 696+00NB

1174

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 8-INCH

BEGIN LEFT TURN LANE
R3-20L
24"X36"

LEGEND

- SIGN ON TEMPORARY SUPPORT
- BARRICADE W/WO SIGN
- FLEXIBLE TUBULAR MARKER
- DRUM W/WO LIGHT
- EXISTING SIGN
- PERMANENT SIGN
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CONSTRUCTION STAGING - STAGE 5	SHEET 130	E

2

2

697+00SB
698+00SB
699+00SB
700+00SB
701+00SB
702+00SB
50' TYP.
697+00NB
698+00NB
699+00NB
700+00NB
701+00NB
702+00NB
50' TYP.

AT&T
AT&T

LANE CLOSED
R11-2L
48" X 30"

LEGEND

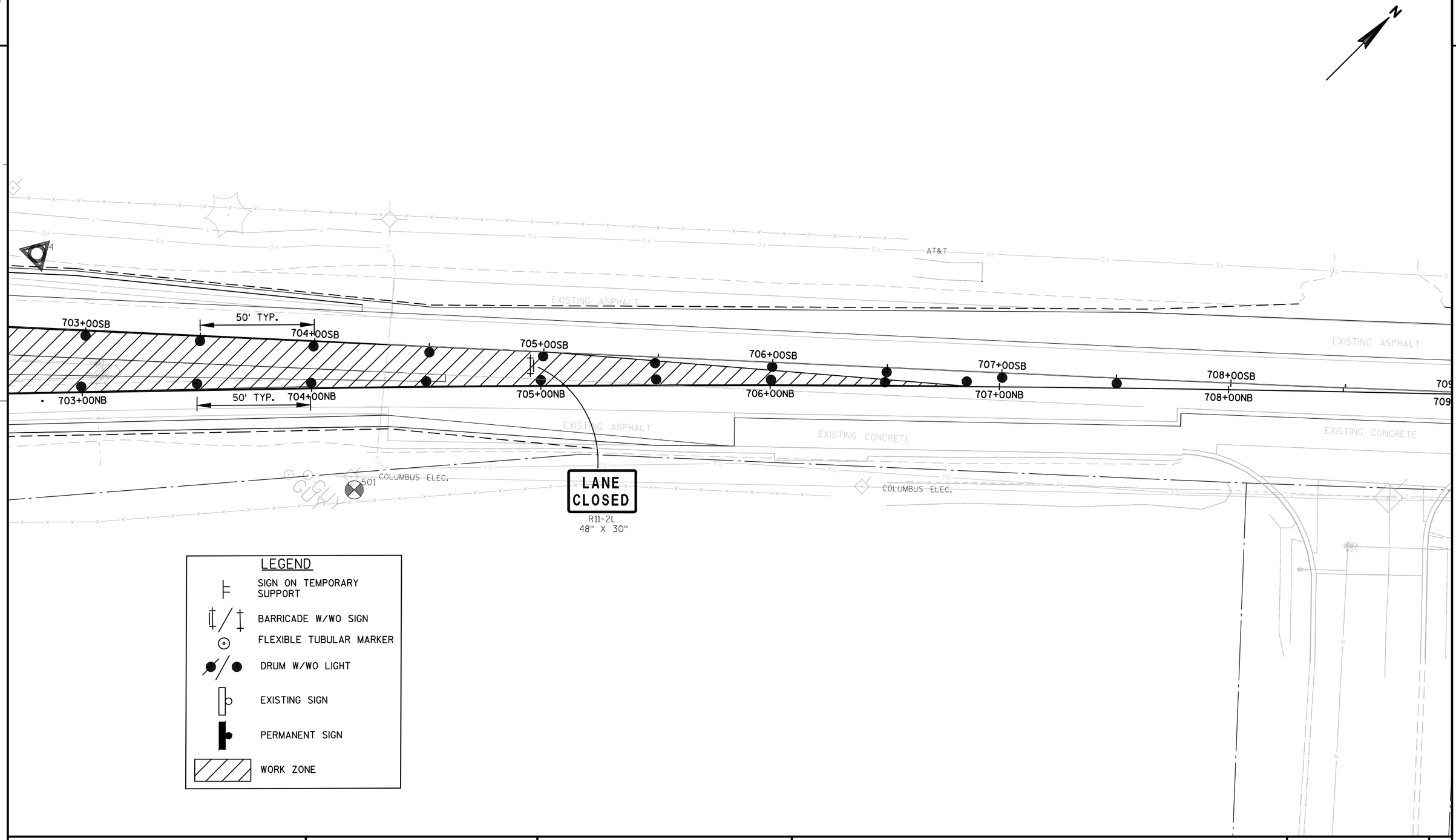
- SIGN ON TEMPORARY SUPPORT
- BARRICADE W/WO SIGN
- FLEXIBLE TUBULAR MARKER
- DRUM W/WO LIGHT
- EXISTING SIGN
- PERMANENT SIGN
- WORK ZONE

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CONSTRUCTION STAGING - STAGE 5	SHEET E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\11-CONSTRUCTION STAGING\026501_S5.DWG PLOT DATE : 5/19/2014 1:11 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

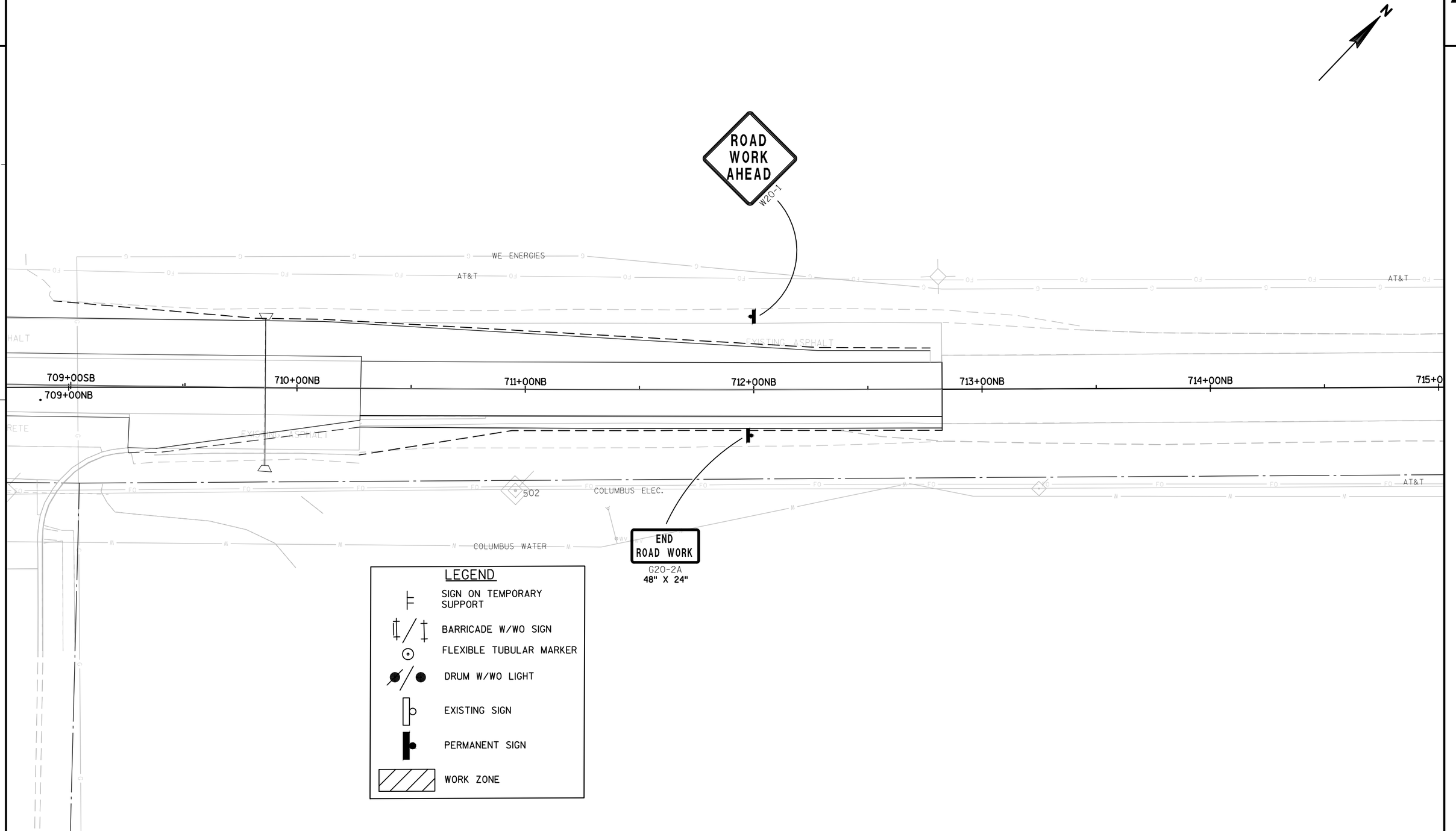


PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CONSTRUCTION STAGING - STAGE 5	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\11-CONSTRUCTION STAGING\026501_S5.DWG PLOT DATE : 5/19/2014 1:11 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

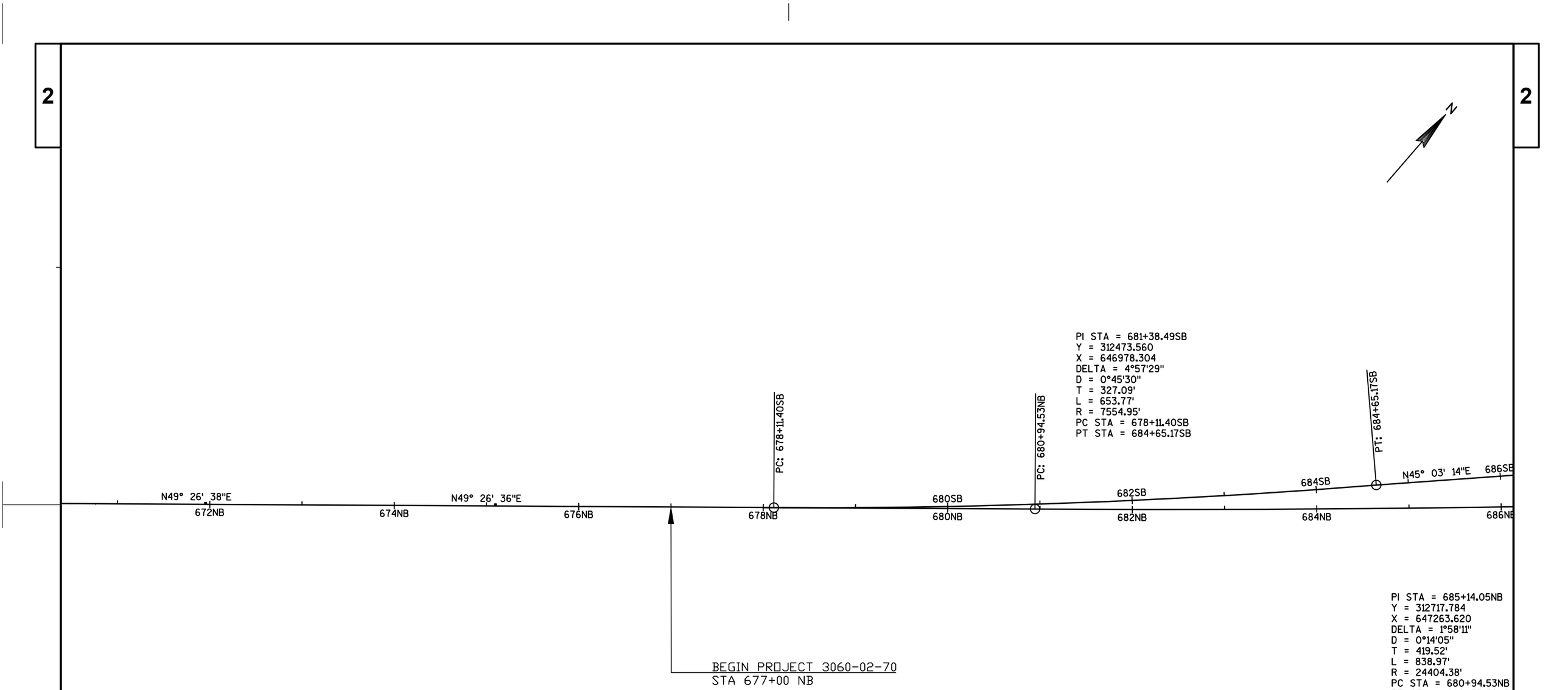


PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CONSTRUCTION STAGING - STAGE 5	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\11-CONSTRUCTION STAGING\026501_S5.DWG PLOT DATE : 5/19/2014 1:11 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

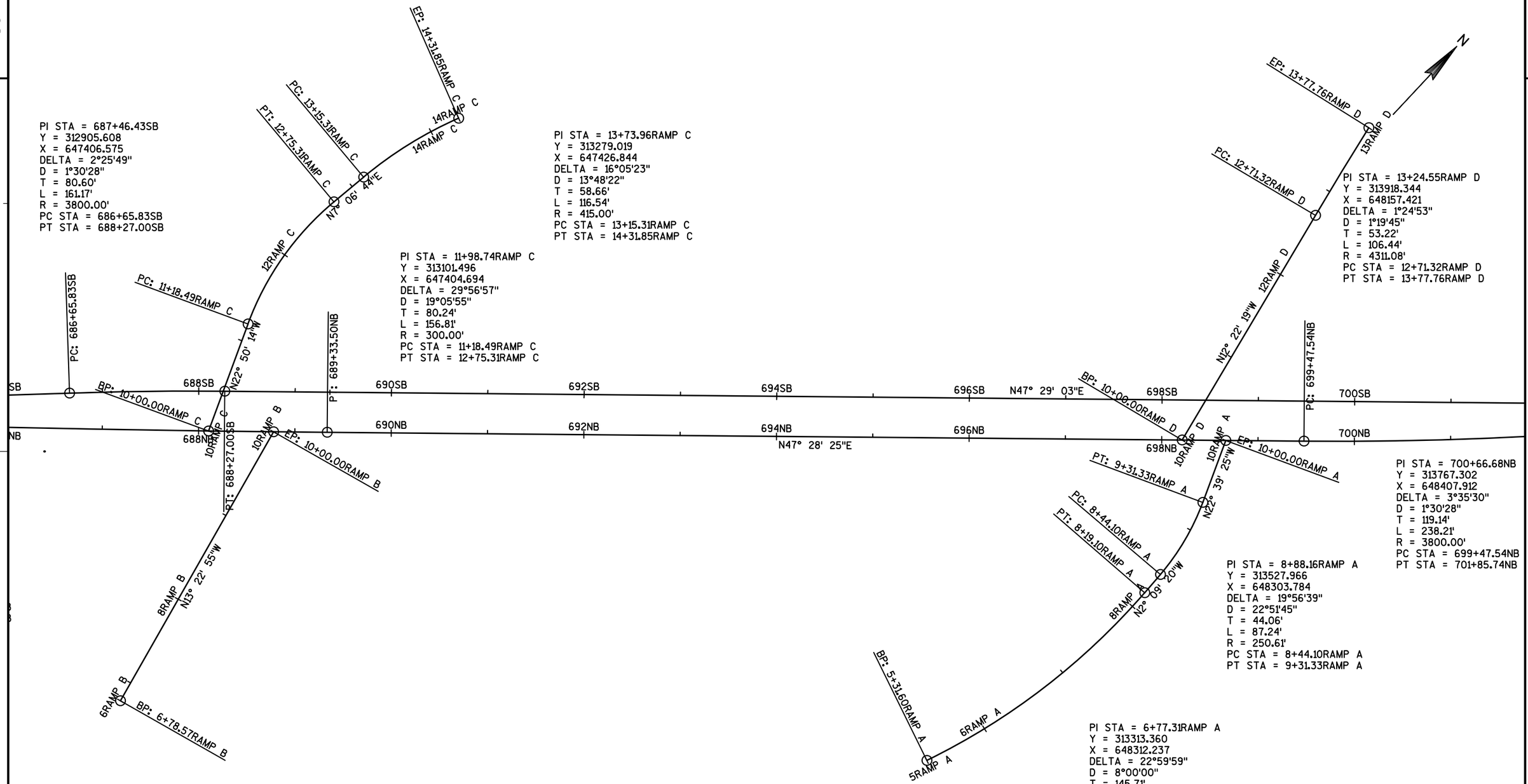


2

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	ALIGNMENT LAYOUT DETAILS	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\12-ALIGNMENT\ALIGNMENT LAYOUT DETAILS.DWG PLOT DATE : 5/15/2014 7:56 AM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	ALIGNMENT LAYOUT DETAILS	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\12-ALIGNMENT\ALIGNMENT LAYOUT DETAILS.DWG PLOT DATE : 5/15/2014 7:56 AM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

PI STA = 710+03.47SB
Y = 314430.920
X = 649070.239
DELTA = 1°25'28"
D = 0°16'11"
T = 264.06'
L = 528.09'
R = 21242.25'
PC STA = 707+39.41SB
PT STA = 712+67.51SB

END PROJECT 3060-02-70
STA 712+82 NB

PC: 704+18.72NB

PC: 707+39.41SB

PRC: 710+17.63NB

702SB

704SB

706SB

708SB

N43° 52' 56"E

702NB

704NB

706NB

708NB

710NB

712NB

714NB

716NB

PT: 701+85.74NB

PT: 712+77.02NB

PI STA = 707+18.22NB
Y = 314235.930
X = 648860.681
DELTA = 2°33'46"
D = 0°25'41"
T = 299.51'
L = 598.91'
R = 13389.30'
PC STA = 704+18.72NB
PT STA = 710+17.63NB

PI STA = 711+47.33NB
Y = 314530.111
X = 649173.207
DELTA = 0°40'24"
D = 0°15'35"
T = 129.70'
L = 259.39'
R = 22070.57'
PC STA = 710+17.63NB
PT STA = 712+77.02NB

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	ALIGNMENT LAYOUT DETAILS	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\12-ALIGNMENT\ALIGNMENT LAYOUT DETAILS.DWG PLOT DATE : 5/15/2014 7:56 AM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

DATE 09JUN14 — 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	3060-02-62 QUANTITY	3060-02-70 QUANTITY
0010	203.0100	REMOVING SMALL PIPE CULVERTS	EACH	3.000	1.000	2.000
0020	204.0100	REMOVING PAVEMENT	SY	19,149.000		19,149.000
0030	204.0150	REMOVING CURB & GUTTER	LF	401.000		401.000
0040	204.0165	REMOVING GUARDRAIL	LF	790.000	290.000	500.000
0050	204.0180	REMOVING DELINEATORS AND MARKERS	EACH	10.000	2.000	8.000
0060	204.0210	REMOVING MANHOLES	EACH	1.000		1.000
0070	204.0220	REMOVING INLETS	EACH	13.000		13.000
0080	204.0245	REMOVING STORM SEWER (SIZE) 01. 18-INCH	LF	406.000		406.000
0090	204.0245	REMOVING STORM SEWER (SIZE) 02. 24-INCH	LF	64.000		64.000
0100	204.0280	SEALING PIPES	EACH	1.000		1.000
0110	205.0100	EXCAVATION COMMON	CY	22,920.000		22,920.000
0120	206.1000	EXCAVATION FOR STRUCTURES BRIDGES (STRUCTURE) 01. B-11-0074	LS	1.000		1.000
0130	211.0400	PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS	STA	44.000	44.000	
0140	213.0100	FINISHING ROADWAY (PROJECT) 01. 3060-02-62	EACH	1.000	1.000	
0150	213.0100	FINISHING ROADWAY (PROJECT) 02. 3060-02-70	EACH	1.000		1.000
0160	305.0110	BASE AGGREGATE DENSE 3/4-INCH	TON	1,261.000	925.000	336.000
0170	305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	12,675.000		12,675.000
0180	312.0110	SELECT CRUSHED MATERIAL	TON	17,861.000		17,861.000
0190	405.0100	COLORING CONCRETE RED	CY	56.000		56.000
0200	415.0080	CONCRETE PAVEMENT 8-INCH	SY	16,059.000		16,059.000
0210	415.0210	CONCRETE PAVEMENT GAPS	EACH	5.000		5.000
0220	415.0410	CONCRETE PAVEMENT APPROACH SLAB	SY	277.000		277.000
0230	415.1080	CONCRETE PAVEMENT HES 8-INCH	SY	380.000		380.000
0240	415.6000.S	ROUT AND SEAL	LF	7,164.000		7,164.000
0250	416.0610	DRILLED TIE BARS	EACH	141.000		141.000
0260	440.4410.S	INCENTIVE IRI RIDE	DOL	9,230.000	5,150.000	4,080.000
0270	455.0105	ASPHALTIC MATERIAL PG58-28	TON	269.000	155.000	114.000
0280	455.0605	TACK COAT	GAL	853.000	614.000	239.000
0290	460.1101	HMA PAVEMENT TYPE E-1	TON	4,747.000	2,840.000	1,907.000
0300	460.2000	INCENTIVE DENSITY HMA PAVEMENT	DOL	3,232.000	1,825.000	1,407.000
0310	465.0120	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	TON	12.000	12.000	
0320	465.0125	ASPHALTIC SURFACE TEMPORARY	TON	291.000		291.000
0330	490.0200	SALVAGED ASPHALTIC PAVEMENT MILLING	SY	24,900.000	24,100.000	800.000
0340	502.0100	CONCRETE MASONRY BRIDGES	CY	135.000		135.000
0350	502.3100	EXPANSION DEVICE (STRUCTURE) 01. B-11-0074	LS	1.000		1.000
0360	502.3200	PROTECTIVE SURFACE TREATMENT	SY	9.000		9.000
0370	502.5005	MASONRY ANCHORS TYPE L NO. 5 BARS	EACH	240.000		240.000
0380	502.5010	MASONRY ANCHORS TYPE L NO. 6 BARS	EACH	192.000		192.000
0390	505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	18,420.000		18,420.000
0400	505.0905	BAR COUPLERS NO. 5	EACH	6.000		6.000
0410	505.0906	BAR COUPLERS NO. 6	EACH	20.000		20.000
0420	509.1000	JOINT REPAIR	SY	111.000		111.000
0430	509.5100.S	POLYMER OVERLAY	SY	2,810.000		2,810.000
0440	521.0118	CULVERT PIPE CORRUGATED STEEL 18-INCH	LF	88.000		88.000
0450	521.1018	APRON ENDWALLS FOR CULVERT PIPE STEEL 18-INCH	EACH	4.000		4.000
0460	522.0124	CULVERT PIPE REINFORCED CONCRETE CLASS III 24-INCH	LF	128.000	56.000	72.000

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DATE 09JUN14 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	3060-02-62 QUANTITY	3060-02-70 QUANTITY
0470	522.1018	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH	EACH	3.000		3.000
0480	522.1024	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH	EACH	4.000	2.000	2.000
0490	601.0409	CONCRETE CURB & GUTTER 30-INCH TYPE A	LF	72.000		72.000
0500	601.0551	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A	LF	2,210.000		2,210.000
0510	601.0574	CONCRETE CURB & GUTTER 4-INCH SLOPED 30-INCH TYPE G	LF	781.000		781.000
0520	602.0405	CONCRETE SIDEWALK 4-INCH	SF	2,088.000		2,088.000
0530	603.8000	CONCRETE BARRIER TEMPORARY PRECAST DELIVERED	LF	950.000		950.000
0540	603.8125	CONCRETE BARRIER TEMPORARY PRECAST INSTALLED	LF	950.000		950.000
0550	606.0200	RIPRAP MEDIUM	CY	36.000		36.000
0560	608.0318	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH	LF	537.000		537.000
0570	609.0124	RELAID STORM SEWER 24-INCH	LF	114.000		114.000
0580	611.0606	INLET COVERS TYPE B	EACH	1.000		1.000
0590	611.0627	INLET COVERS TYPE HM	EACH	5.000		5.000
0600	611.0630	INLET COVERS TYPE HM-GJ	EACH	6.000		6.000
0610	611.3230	INLETS 2X3-FT	EACH	11.000		11.000
0620	611.8120.S	COVER PLATES TEMPORARY	EACH	5.000		5.000
0630	612.0106	PIPE UNDERDRAIN 6-INCH	LF	1,335.000		1,335.000
0640	614.0010	BARRIER SYSTEM GRADING SHAPING FINISHING	EACH	5.000	2.000	3.000
0650	614.0220	STEEL THRIE BEAM BULLNOSE TERMINAL	EACH	2.000		2.000
0660	614.0230	STEEL THRIE BEAM	LF	282.000		282.000
0670	614.0905	CRASH CUSHIONS TEMPORARY	EACH	2.000		2.000
0680	614.2300	MGS GUARDRAIL 3	LF	100.000	75.000	25.000
0690	614.2340	MGS GUARDRAIL 3 L	LF	225.000	225.000	
0700	614.2500	MGS THRIE BEAM TRANSITION	LF	79.000		79.000
0710	614.2610	MGS GUARDRAIL TERMINAL EAT	EACH	6.000	4.000	2.000
0720	618.0100	MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT) 01. 3060-02-62	EACH	1.000	1.000	
0730	618.0100	MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT) 02. 3060-02-70	EACH	1.000		1.000
0740	619.1000	MOBILIZATION	EACH	1.000	0.160	0.840
0750	620.0100	CONCRETE CORRUGATED MEDIAN	SF	915.000		915.000
0760	620.0300	CONCRETE MEDIAN SLOPED NOSE	SF	437.000		437.000
0770	625.0100	TOPSOIL	SY	50.000	50.000	
0780	625.0500	SALVAGED TOPSOIL	SY	6,500.000		6,500.000
0790	628.1504	SILT FENCE	LF	10,771.000	300.000	10,471.000
0800	628.1520	SILT FENCE MAINTENANCE	LF	10,771.000	300.000	10,471.000
0810	628.1905	MOBILIZATIONS EROSION CONTROL	EACH	7.000	2.000	5.000
0820	628.1910	MOBILIZATIONS EMERGENCY EROSION CONTROL	EACH	7.000	2.000	5.000
0830	628.2004	EROSION MAT CLASS I TYPE B	SY	6,300.000	100.000	6,200.000
0840	628.7015	INLET PROTECTION TYPE C	EACH	34.000		34.000
0850	628.7504	TEMPORARY DITCH CHECKS	LF	378.000		378.000
0860	628.7555	CULVERT PIPE CHECKS	EACH	15.000		15.000
0870	629.0210	FERTILIZER TYPE B	CWT	4.410	0.020	4.390
0880	630.0110	SEEDING MIXTURE NO. 10	LB	93.000	1.000	92.000
0890	633.5200	MARKERS CULVERT END	EACH	10.000	2.000	8.000
0900	634.0616	POSTS WOOD 4X6-INCH X 16-FT	EACH	71.000	26.000	45.000
0910	634.0618	POSTS WOOD 4X6-INCH X 18-FT	EACH	17.000		17.000
0920	634.0620	POSTS WOOD 4X6-INCH X 20-FT	EACH	10.000		10.000

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DATE 09JUN14 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	3060-02-62 QUANTITY	3060-02-70 QUANTITY
0930	637.2210	SIGNS TYPE II REFLECTIVE H	SF	877.900	142.900	735.000
0940	637.2230	SIGNS TYPE II REFLECTIVE F	SF	166.500	81.000	85.500
0950	638.2102	MOVING SIGNS TYPE II	EACH	5.000		5.000
0960	638.2602	REMOVING SIGNS TYPE II	EACH	109.000	30.000	79.000
0970	638.3000	REMOVING SMALL SIGN SUPPORTS	EACH	97.000	24.000	73.000
0980	638.4000	MOVING SMALL SIGN SUPPORTS	EACH	5.000		5.000
0990	642.5001	FIELD OFFICE TYPE B	EACH	1.000		1.000
1000	643.0100	TRAFFIC CONTROL (PROJECT) 01. 3060-02-62	EACH	1.000	1.000	
1010	643.0100	TRAFFIC CONTROL (PROJECT) 02. 3060-02-70	EACH	1.000		1.000
1020	643.0300	TRAFFIC CONTROL DRUMS	DAY	9,958.000		9,958.000
1030	643.0420	TRAFFIC CONTROL BARRICADES TYPE III	DAY	863.000		863.000
1040	643.0500	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS	EACH	126.000		126.000
1050	643.0600	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES	EACH	126.000		126.000
1060	643.0705	TRAFFIC CONTROL WARNING LIGHTS TYPE A	DAY	1,170.000		1,170.000
1070	643.0715	TRAFFIC CONTROL WARNING LIGHTS TYPE C	DAY	2,571.000		2,571.000
1080	643.0900	TRAFFIC CONTROL SIGNS	DAY	886.000		886.000
1090	643.0910	TRAFFIC CONTROL COVERING SIGNS TYPE I	EACH	163.000		163.000
1100	643.0920	TRAFFIC CONTROL COVERING SIGNS TYPE II	EACH	3.000		3.000
1110	643.1000	TRAFFIC CONTROL SIGNS FIXED MESSAGE	SF	64.000		64.000
1120	643.1050	TRAFFIC CONTROL SIGNS PCMS	DAY	121.000		121.000
1130	643.2000	TRAFFIC CONTROL DETOUR (PROJECT) 01. 3060-02-70	EACH	1.000		1.000
1140	643.3000	TRAFFIC CONTROL DETOUR SIGNS	DAY	4,789.000		4,789.000
1150	645.0112	GEOTEXTILE FABRIC TYPE DF SCHEDULE B	SY	2,000.000		2,000.000
1160	645.0120	GEOTEXTILE FABRIC TYPE HR	SY	120.000		120.000
1170	646.0106	PAVEMENT MARKING EPOXY 4-INCH	LF	16,616.000		16,616.000
1180	646.0600	REMOVING PAVEMENT MARKINGS	LF	8,486.000		8,486.000
1190	646.0841.S	PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 4-INCH	LF	2,378.000		2,378.000
1200	646.0843.S	PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH	LF	1,130.000		1,130.000
1210	647.0166	PAVEMENT MARKING ARROWS EPOXY TYPE 2	EACH	10.000		10.000
1220	647.0356	PAVEMENT MARKING WORDS EPOXY	EACH	5.000		5.000
1230	647.0456	PAVEMENT MARKING CURB EPOXY	LF	50.000		50.000
1240	647.0566	PAVEMENT MARKING STOP LINE EPOXY 18-INCH	LF	147.000	48.000	99.000
1250	647.0606	PAVEMENT MARKING ISLAND NOSE EPOXY	EACH	4.000		4.000
1260	647.0726	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH	LF	481.000		481.000
1270	647.0856	PAVEMENT MARKING CONCRETE CORRUGATED MEDIAN EPOXY	SF	348.000		348.000
1280	648.0100	LOCATING NO-PASSING ZONES	MI	1.290	1.290	
1290	649.0100	TEMPORARY PAVEMENT MARKING 4-INCH	LF	17,172.000		17,172.000
1300	649.0300	TEMPORARY PAVEMENT MARKING REFLECTIVE TAPE 4-INCH	LF	12,463.000		12,463.000
1310	649.0801	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH	LF	705.000		705.000
1320	649.1000	TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH	LF	45.000		45.000
1330	650.4000	CONSTRUCTION STAKING STORM SEWER	EACH	11.000		11.000
1340	650.4500	CONSTRUCTION STAKING SUBGRADE	LF	3,600.000		3,600.000
1350	650.5000	CONSTRUCTION STAKING BASE	LF	3,600.000		3,600.000
1360	650.5500	CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER	LF	3,058.000		3,058.000
1370	650.6000	CONSTRUCTION STAKING PIPE CULVERTS	EACH	4.000	1.000	3.000

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DATE 09JUN14 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	3060-02-62 QUANTITY	3060-02-70 QUANTITY
1380	650.7000	CONSTRUCTION STAKING CONCRETE PAVEMENT	LF	4,349.000		4,349.000
1390	650.8000	CONSTRUCTION STAKING RESURFACING REFERENCE	LF	6,790.000	6,790.000	
1400	650.9910	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 01. 3060-02-62	LS	1.000	1.000	
1410	650.9910	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 02. 3060-02-70	LS	1.000		1.000
1420	650.9920	CONSTRUCTION STAKING SLOPE STAKES	LF	5,760.000		5,760.000
1430	690.0150	SAWING ASPHALT	LF	2,568.000	230.000	2,338.000
1440	690.0250	SAWING CONCRETE	LF	1,765.000		1,765.000
1450	715.0415	INCENTIVE STRENGTH CONCRETE PAVEMENT	DOL	1,130.000		1,130.000
1460	715.0502	INCENTIVE STRENGTH CONCRETE STRUCTURES	DOL	810.000		810.000
1470	ASP.1T0A	ON-THE-JOB TRAINING APPRENTICE AT $5.00/HR	HRS	500.000		500.000
1480	ASP.1T0G	ON-THE-JOB TRAINING GRADUATE AT $5.00/HR	HRS	400.000		400.000
1490	SPV.0085	SPECIAL 01. NO MOW LAWN SEED	LB	33.000		33.000
1500	SPV.0090	SPECIAL 01. PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH	LF	21,389.000	17,300.000	4,089.000
1510	SPV.0090	SPECIAL 02. PERIMETER CONTROL LOGS	LF	470.000		470.000
1520	SPV.0105	SPECIAL 01. CONCRETE PAVEMENT JOINT LAYOUT	LS	1.000		1.000
1530	SPV.0180	SPECIAL 01. GEOGRID REINFORCEMENT	SY	770.000		770.000

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EARTHWORK SUMMARY

Division	From/To Station	Location	205.0100 Excavation (1) Common Cut (2)	205.0100 Excavation (1) Common EBS Excavation (3) (10)	Salvaged/Unusable Pavement Material (4)	Available Material (5)	Reduced EBS in Fill (6) Factor 0.80	Expanded EBS Backfill (7) Factor 1.30	Unexpanded Fill	Expanded Fill (8) Factor 1.20	Mass Ordinate +/- (9)	Waste	Comment:
STAGE 1	700+00 - 704+30 NB	RT	321	0	0	321	0	0	0	0	321	321	PREP TEMP LN FOR STAGE 2
	710+25 - 716+75 NB	RT	357	0	0	357	0	0	0	0	357	357	PREP TEMP LN FOR STAGE 2
	684+50 - 691+75 NB	MEDIAN C&G REMOVALS	221	0	54	167	0	0	0	0	167	167	
	695+20 - 703+15 NB	MEDIAN C&G REMOVALS	33	0	8	25	0	0	0	0	25	25	
	5% EBS	UNDISTRIBUTED	0	14	0	0	11	18	0	0	0		
						0					0	0	
		STAGE 1 Subtotal	932	14	62	870	11	18	0	0	870	870	
STAGE 2	688+00 - 692+11 SB	RT & LT MAINLINE	2,091	0	359	1,732	0	0	0	0	1,732	1,732	
	695+59 - 712+82 SB	RT & LT MAINLINE	4,654	0	1,058	3,595	0	0	0	0	3,595	3,595	
	712+82 - 716+00 NB	LT	189	0	0	189	0	0	0	0	189	189	PREP TEMP LN FOR STAGE 3
	10+70 - 14+50 RAMP C	RT	234	0	0	234	0	0	0	0	234	234	REMOVE TEMP HAUL RD
	10+75 - 13+00 RAMP D	LT	139	0	0	139	0	0	0	0	139	139	REMOVE TEMP HAUL RD
	10+70 - 13+50 RAMP C	RT & LT RAMP C	1,341	0	171	1,170	0	0	0	0	1,170	1,170	
	10+75 - 12+35 RAMP D	RT & LT RAMP D	718	0	185	533	0	0	0	0	533	533	
	5% EBS	UNDISTRIBUTED	0	139	0	0	111	181	0	-133	133	133	
		STAGE 2 Subtotal	9,365	139	1,774	7,591	111	181	0	-133	7,725	7,725	
STAGE 3	687+50 - 691+70 NB	RT & LT MAINLINE	1,106	0	299	807	0	0	0	0	807	807	
	695+12 - 712+82 NB	RT & LT MAINLINE	4,715	0	857	3,858	0	0	0	0	3,858	3,858	
	700+00 - 704+30 NB	RT	364	0	50	314	0	0	0	0	314	314	REMOVE STAGE 2 TEMP LN
	710+25 - 716 75 NB	RT	597	0	71	526	0	0	0	0	526	526	REMOVE STAGE 2 TEMP LN
	7+00 - 9+78 RAMP A	LT	167	0	0	167	0	0	0	0	167	167	REMOVE TEMP HAUL RD
	8+35 - 9+73 RAMP B	RT	105	0	0	105	0	0	0	0	105	105	REMOVE TEMP HAUL RD
	7+50 - 9+78 RAMP A	RT & LT RAMP A	899	0	197	703	0	0	0	0	703	703	
	7+66 - 9+73 RAMP B	RT & LT RAMP B	715	0	177	537	0	0	0	0	537	537	
	5% EBS	UNDISTRIBUTED	0	129	0	0	103	167	0	-123	123	123	
		STAGE 3 subtotal	8,669	129	1,652	7,017	103	167	0	-123	7,141	7,141	
STAGE 4	677+00 - 682+00 NB	RT & LT MAINLINE	1010	0	242	768	0	0	0	0	768	768	
	682+00 - 688+00 SB	RT & LT MAINLINE	1,212	0	246	966	0	0	0	0	966	966	
	682+00 - 687+50 NB	RT & LT MAINLINE	1,145	0	397	747	0	0	0	0	747	747	REMOVE STAGE 3 TEMP LN
	712+82 - 716+00 NB	LT	244	0	59	185	0	0	0	0	185	185	
	5% EBS	UNDISTRIBUTED	0	54	0	0	43	70	0	-51	51	51	
		STAGE 4 Subtotal	3,610	54	944	2,667	43	70	0	-51	2,718	2,718	
Grand Total			22,580	340	4,440	18,150	270	440	0	-310	18,460	18,460	

Total Common Exc. 22,920

1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
2) Salvaged/Unsuable Pavement Material is included in Cut.
3) EBS Excavation to be backfilled with Select Crushed Material.
4) Salvaged/Unusable Pavement Material
5) Available Material = Cut - Salvaged/Unusuable Pavement Material
6) Reduced EBS in Fill - Excavated EBS material is usuable in Fills outside the 1:1 slope. EBS in Fill Reduction factor = 0.8
7) Expanded EBS Backfill - This is to be filled with Select Crushed Material. EBS Backfill Factor = 1.75. Item number 208.1100
8) Expanded Fill. Factor = 1.20
9) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.
10) EBS calculated as 5% of pavement surface area to a depth of 1 FT.

3

REMOVING PAVEMENT

PROJECT I.D.	CATEGORY	STATION	TO	STATION	LOCATION	204.0100 REMOVING PAVEMENT SY	REMARKS
3060-02-70	STAGE 1						
	0010	684+45	-	688+73	WEST MEDIAN	244	C&G AROUND GRASS MEDIAN
	0010	698+33	-	699+00	EAST MEDIAN	36	C&G END AT RAMP INTERSECTION
	0010	707+79	-	709+27	HERITAGE WAY	19	REMOVE C&G FOR STAGE 2 TEMP LANES
	STAGE 2						
	0010	688+00	-	692+11	SB MAINLINE	1,546	
	0010	695+59	-	704+00	SB MAINLINE	2,902	
	0010	704+00	-	712+82	SB MAINLINE	1,599	
	0010	10+56	-	13+50	RAMP C	771	INCLUDES C&G
	0010	10+62	-	12+35	RAMP D	833	INCLUDES C&G
	0010	695+59	-	697+50	E. SIDE CONCRETE MEDIAN	145	INCLUDES N. HALF C&G & CONC. MEDIAN
	0010	699+00	-	703+17	EAST MEDIAN	116	NORTH HALF C&G OF GRASS MEDIAN
	0010	689+50	-	691+90	W. SIDE CONCRETE MEDIAN	68	NORTH HALF OF C&G ONLY
	STAGE 3						
	0010	687+50	-	691+70	NB MAINLINE	1,199	
	0010	695+12	-	704+00	NB MAINLINE	2,415	
	0010	704+00	-	712+82	NB MAINLINE	1,264	
	0010	7+65	-	9+86	RAMP B	798	INCLUDES C&G
	0010	7+50	-	9+87	RAMP A	885	INCLUDES C&G
	0010	695+12	-	697+50	E. SIDE CONCRETE MEDIAN	61	SOUTH HALF OF C&G ONLY
	0010	699+00	-	703+17	EAST MEDIAN	117	SOUTH HALF C&G OF GRASS MEDIAN
	0010	689+50	-	691+70	W. SIDE CONCRETE MEDIAN	148	INCLUDES S. HALF C&G & CONC. MEDIAN
	STAGE 4						
	0010	677+00	-	682+00	MAINLINE	1,089	
	0010	682+00	-	687+50	NB MAINLINE	1,788	
	0010	682+00	-	688+00	SB MAINLINE	1,106	
					TOTAL 0010	19,149	

*QUANTITIES INCLUDE CONCRETE PAVEMENT; 30" CURB & GUTTER; AND CONCRETE MEDIAN REMOVALS

REMOVING CURB & GUTTER

CATEGORY	STATION	TO	STATION	LOCATION	204.0150 REMOVING CURB AND GUTTER LF
0010	687+91	-	688+74	MEDIAN	180
0010	698+34	-	698+99	MEDIAN	132
0010	707+80	-	709+25	26' RT	89
				TOTAL 0010	401

REMOVING GUARDRAIL

PROJECT I.D.	CATEGORY	STATION	TO	STATION	LOCATION	204.0165 REMOVING GUARDRAIL LF	REMARKS
3060-02-62	0010	653+25	-	654+75	RT	150	
	0010	653+40	-	654+80	LT	140	
					SUBTOTAL	290	
3060-02-70	0010	690+75	-	691+50	"NB" RT	75	
	0010	695+75	-	696+50	"SB" LT	75	
	0010	-	-	-	USH 151	350	AROUND BRIDGE PIERS
					SUBTOTAL	500	
					TOTAL 0010	790	

REMOVING DELINEATORS AND MARKERS

PROJECT I.D.	CATEGORY	STATION	LOCATION	204.0180 REMOVING DELINEATORS AND MARKERS EACH
3060-02-62	0010	634+50	LT & RT	2
			SUBTOTAL	2
3060-02-70	0010	686+10	LT	1
	0010	691+55	LT	1
	0010	697+45	RT	1
	0010	698+80	RT	1
	0010	702+10	RT	1
	0010	703+15	RT	1
	0010	709+85	LT & RT	2
			SUBTOTAL	8
			TOTAL 0010	10

REMOVING INLETS

CATEGORY	STATION	OFFSET	204.0220 REMOVING INLETS EACH
0010	698+50 NB	12.5' LT	1
0010	698+50 SB	0.5' RT	1
0010	686+05 SB	5.0' RT	1
0010	689+57 NB	12.5' LT	1
0010	689+56 SB	23' RT	1
0010	691+54 NB	9.0' LT	1
0010	691+55 SB	23.5' RT	1
0010	697+45 NB	23' LT	1
0010	697+46 SB	12.5' RT	1
0010	698+41 NB	42.5' RT	1
0010	702+06 NB	2.5' LT	1
0010	703+06 NB	1.5' LT	1
0010	703+05 SB	13' RT	1
		TOTAL 0010	13

REMOVING STORM SEWER

CATEGORY	STATION	LOCATION	204.0245.01 REMOVING STORM SEWER 18-INCH LF	204.0245.02 REMOVING STORM SEWER 24-INCH LF	REMARKS
0010	686+05	INLET TO ENDWALL	52	-	
0010	689+60	INLETS TO MANHOLE	72	-	SOUTH OF MAINLINE
					CAN USE SEALING PIPE ITEM IF NO ENDWALL
0010	689+60	MANHOLE TO ENDWALL	143	-	FOUND
0010	697+40	INLET TO ENDWALL	-	64	
0010	698+50	INLET TO ENDWALL	50	-	TRAFFIC ISLAND
0010	702+10	INLET TO ENDWALL	44	-	
0010	703+05	INLET TO ENDWALL	45	-	
		TOTAL 0010	406	64	

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BASE MATERIALS

PROJECT I.D.	CATEGORY	STATION	TO	STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	312.0110 SELECT CRUSHED MATERIAL TON
3060-02-62	0010	609+13	-	655+00	RT/LT	625	-	-
	0010	655+00	-	677+00	RT/LT	300	-	-
					SUBTOTAL	925	0	0
3060-02-70	STAGE 1							
	0010	688+78	-	688+78	TURNING ALLOWANCE	-	45	-
	0010	698+33	-	699+00	TURNING ALLOWANCE	-	63	-
	0010	699+61	-	704+33	NB TEMP LANE + RIGHT SHOULDER	-	196	601
	0010	710+26	-	716+54	NB TEMP LANE + RIGHT SHOULDER	-	269	825
	STAGE 2							
	0010	10+70	-	14+00	RAMP C EMERGENCY LANE	-	719	296
	0010	10+75	-	12+49	RAMP D EMERGENCY LANE	-	528	173
	0010	10+70	-	13+50	RAMP C	38	404	632
	0010	10+78	-	12+35	RAMP D	27	409	627
	0010	684+40	-	687+71	NB TEMP LANE	-	137	164
	0010	712+82	-	716+99	SB TEMP LANE	-	402	572
	0010	688+00	-	689+00	SB MAINLINE	4	214	327
	0010	689+00	-	692+13	SB MAINLINE	12	734	1,162
	0010	695+55	-	698+00	SB MAINLINE	9	469	713
	0010	698+00	-	704+50	SB MAINLINE	24	1,239	2,087
	0010	704+50	-	710+38	SB MAINLINE	-	395	790
	0010	710+38	-	712+82	SB MAINLINE	9	197	324
	STAGE 3							
	0010	8+36	-	9+75	RAMP B EMERGENCY LANE	-	489	133
	0010	7+18	-	9+75	RAMP A EMERGENCY LANE	-	569	211
	0010	8+00	-	9+72	RAMP B	28	428	501
	0010	7+50	-	9+80	RAMP A	28	401	721
	0010	688+00	-	689+00	NB MAINLINE	4	195	324
	0010	689+00	-	691+70	NB MAINLINE	9	510	779
	0010	695+12	-	698+00	NB MAINLINE	11	662	1,035
	0010	698+00	-	704+50	NB MAINLINE	24	1,338	2,057
	0010	704+50	-	710+38	NB MAINLINE	-	271	541
	0010	710+38	-	712+82	NB MAINLINE	15	201	332
	STAGE 4							
	0010	677+00	-	684+79	MAINLINE	94	1,191	1,934
					SUBTOTAL	336	12,675	17,861
					TOTAL 0010	1,261	12,675	17,861

PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS

PROJECT I.D.	CATEGORY	STATION	TO	STATION	LOCATION	211.0400 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS STA
3060-02-62	0010	655+00	-	677+00	RT	22
	0010	655+00	-	677+00	LT	22
					TOTAL 0010	44

COLORING CONCRETE RED

PROJECT I.D.	CATEGORY	STATION	TO	STATION	LOCATION	405.0100 COLORING CONCRETE RED CY
3060-02-70	0010	8+42	-	9+50	RAMP B TRUCK APRON	29
	0010	10+62	-	12+35	RAMP D TRUCK APRON	27
					TOTAL 0010	56

CONCRETE PAVEMENT GAPS

PROJECT I.D.	CATEGORY	LOCATION	415.0210 CONCRETE PAVEMENT GAPS EACH
3060-02-70	0010	RAMP A	1
	0010	RAMP B	1
	0010	RAMP C	1
	0010	RAMP D	1
	0010	HERITAGE WAY	1
		TOTAL 0010	5

ROUTE AND SEAL

PROEJCT I.D.	CATEGORY	STATION	TO	STATION	LOCATION	415.6000.S ROUTE AND SEAL LF
3060-02-70	0010	677+00	-	712+82	NB	3,582
	0010	677+00	-	712+82	SB	3,582
					TOTAL 0010	7,164

DRILLED TIE BARS

PROJECT I.D.	CATEGORY	STATION	TO	STATION	LOCATION	416.0610 DRILLED TIE BARS EACH
3060-02-70	0010	705+81	-	709+26	HERITAGE WAY INTERSECTION	141
					TOTAL 0010	141

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CONCRETE PAVEMENT

PROJECT I.D.	CATEGORY	STATION	TO	STATION	LOCATION	415.0080 CONCRETE PAVEMENT 8-INCH SY	415.0410 CONCRETE PAVEMENT APPROACH SLAB SY	415.1080 CONCRETE PAVEMENT HES 8-INCH SY
3060-02-70	STAGE 2							
	0010	688+00	-	691+96	MAINLINE SB	1,390	-	78
	0010	691+76	-	692+11	WEST APPROACH	-	85	-
	0010	695+54	-	695+81	EAST APPROACH	-	58	-
	0010	695+81	-	704+30	MAINLINE SB	3,091	-	98
	0010	704+30	-	710+27	MAINLINE SB	1,300	-	-
	0010	10+57	-	13+50	RAMP C	846	-	-
	0010	10+62	-	12+35	RAMP D	885	-	-
	STAGE 3							
	0010	687+50	-	691+54	MAINLINE NB	1,167	-	93
	0010	691+42	-	691+70	WEST APPROACH	-	57	-
	0010	695+12	-	695+45	EAST APPROACH	-	76	-
	0010	695+28	-	704+33	MAINLINE NB	2,709	-	78
	0010	704+33	-	710+27	MAINLINE NB	1,115	-	33
	0010	7+50	-	9+87	RAMP A	800	-	-
	0010	7+66	-	9+86	RAMP B	827	-	-
	STAGE 4							
	0010	684+79	-	688+00	MAINLINE SB	851	-	-
	0010	684+79	-	687+50	MAINLINE NB	1,078	-	-
					TOTAL 0010	16,059	277	380

ASPHALTIC PAVEMENT

PROJECT I.D.	CATEGORY	STATION	TO	STATION	LOCATION	455.0105 ASPHALTIC MATERIAL PG58-28 TON	455.0605 TACK COAT GAL	460.1101 HMA PAVEMENT TYPE E-1 TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	465.0125 ASPHALTIC SURFACE TEMPORARY TON
3060-02-62	0010	609+13	-	677+00	MAINLINE	151	595	2765	-	-
	0010	609+13	-	677+00	SIDEROADS	4	16	75	-	-
	0010	609+13	-	677+00	DRIVEWAYS	-	3	-	12	-
					SUBTOTAL	155	614	2840	12	0
3060-02-70	STAGE 1									
	0010	699+61	-	704+33	NB TEMP LANE	-	13	-	-	102
	0010	710+26	-	716+54	NB TEMP LANE	-	19	-	-	143
	STAGE 2									
	0010	684+40	-	687+71	NB TEMP LANE	-	6	-	-	46
	0010	10+94	-	13+50	RAMP C	3	6	45	-	-
	0010	688+77	-	691+96	WEST SB SHOULDER	4	8	59	-	-
	0010	696+17	-	698+44	EAST SB SHOULDER	3	5	38	-	-
	0010	10+71	-	12+35	RAMP D	1	2	15	-	-
	0010	699+66	-	704+50	EAST SB SHOULDER	2	3	23	-	-
	0010	704+50	-	710+82	EAST SB FILL	7	20	112	-	-
	0010	710+28	-	712+82	SB MAINLINE	8	13	136	-	-
	0010	712+82	-	716+99	SB TEMP LANE	7	11	119	-	-
	STAGE 3									
	0010	7+65	-	9+94	RAMP B	2	3	21	-	-
	0010	689+06	-	691+42	WEST NB SHOULDER	3	5	37	-	-
	0010	695+28	-	698+12	EAST NB SHOULDER	3	7	50	-	-
	0010	7+50	-	9+60	RAMP A	2	5	33	-	-
	0010	699+12	-	704+33	EAST NB SHOULDER	3	5	38	-	-
	0010	704+23	-	705+84	EAST NB FILL	1	2	11	-	-
	0010	710+28	-	712+82	NB MAINLINE	8	13	135	-	-
	STAGE 4									
	0010	677+00	-	684+79	MAINLINE	57	93	1035	-	-
					SUBTOTAL	114	239	1,907	0	291
					TOTAL 0010	269	853	4,747	12	291

CULVERTS

PROJECT I.D.	CATEGORY	STATION	LOCATION	THICKNESS	203.0100 REMOVING SMALL PIPE CULVERTS EACH	521.0118 CULVERT PIPE CORRUGATED STEEL 18-INCH LF	521.1018 APRON ENDWALLS FOR CULVERT PIPE STEEL 18-INCH EACH	522.0124 CULVERT PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH
3060-02-62	0010	634+50	MAINLINE	-	1	-	-	56	2
				-					
				SUBTOTAL	1	0	0	56	2
3060-02-70	0010	679+40	LT DRIVEWAY	.064"	1	32	2	-	-
		679+75	RT DRIVEWAY	.064"	-	56	2	-	-
		709+85	MAINLINE	-	1	-	-	72	2
				SUBTOTAL	2	88	4	72	2
				TOTAL 0010	3	88	4	128	4

ASPHALTIC-MILLING

PROJECT I.D.	CATEGORY	STATION	TO	STATION	LOCATION	490.0200 SALVAGED ASPHALTIC PAVEMENT MILLING SY
3060-02-62	0010	609+13	-	677+00	MAINLINE	24,100
					SUBTOTAL	24,100
3060-02-70	0010	704+50	-	712+82	BYPASS LANE	800
					SUBTOTAL	800
					TOTAL 0010	24,900

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CURB AND GUTTER

PROJECT I.D.	CATEGORY	STATION	TO	STATION	OFFSET	LOCATION	601.0409 CONCRETE CURB & GUTTER 30-INCH TYPE A LF	601.0551 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A LF	601.0574 CONCRETE CURB & GUTTER 4-INCH SLOPED 30-INCH TYPE G LF
3060-02-70	STAGE 2								
	0010	689+79	-	697+14	VARIES	SB HALF MEDIAN	-	-	389
	0010	699+00	-	702+11	VARIES	SB HALF MEDIAN	-	312	-
	0010	10+65	-	10+98	VARIES	RAMP C	-	128	-
	0010	10+74	-	11+05	VARIES	RAMP D	-	209	-
	STAGE 3								
	0010	689+79	-	697+18	VARIES	SB HALF MEDIAN	-	-	392
	0010	699+00	-	702+11	VARIES	SB HALF MEDIAN	-	313	-
	0010	9+42	-	9+78	VARIES	RAMP A	-	177	-
	0010	9+40	-	9+74	VARIES	RAMP B	-	245	-
	0010	707+79	-	709+25	27'-40' RT	HERITAGE WAY	72	-	-
	STAGE 4								
	0010	685+29	-	688+22	VARIES	MEDIAN	-	581	-
	STAGE 5								
	0010	688+22	-	688+70	VARIES	MEDIAN & NOSE	-	106	-
	0010	698+32	-	699+00	VARIES	MEDIAN & NOSE	-	139	-
						TOTAL 0010	72	2,210	781

CONCRETE MEDIANS

PROJECT I.D.	CATEGORY	STATION	TO	STATION	LOCATION	602.0405 CONCRETE SIDEWALK 4-INCH SF	620.0300 CONCRETE MEDIAN SLOPED NOSE TYPE 1 SF	620.0300 CONCRETE MEDIAN SLOPED NOSE TYPE 2 SF
3060-02-70	0010	685+29	-	685+24	CENTER MEDIAN	-	53	-
	0010	688+64	-	688+70	CENTER MEDIAN	-	59	-
	0010	689+81	-	691+87	CENTER MEDIAN	607	33	-
	0010	695+35	-	697+17	CENTER MEDIAN	644	31	-
	0010	698+33	-	698+38	CENTER MEDIAN	-	62	-
	0010	702+07	-	702+12	CENTER MEDIAN	-	51	-
	0010		-		RAMP A ISLAND	94	-	32
	0010		-		RAMP B ISLAND	350	-	43
	0010		-		RAMP C ISLAND	72	-	30
	0010		-		RAMP D ISLAND	321	-	43
					TOTAL 0010	2,088	289	148

TEMP-CONC-BARRIER

PROJECT I.D.	CATEGORY	LOCATION	603.8000 CONCRETE BARRIER TEMPORARY PRECAST DELIVERED LF	603.8125 CONCRETE BARRIER TEMPORARY PRECAST INSTALLED LF	614.0905 CRASH CUSHIONS TEMPORARY EACH
3060-02-70	0010	NB USH 151	475	475	1
	0010	SB USH 151	475	475	1
		TOTAL 0010	950	950	2

STORM SEWER STRUCTURES

PROJECT I.D.	CATEGORY	STRUCTURE NUMBER	STATION	OFFSET	LOCATION	CASTING ELEV.	TOP OF STRUCTURE	DEPTH FT	611.0606 INLET COVERS TYPE B EACH	611.0627 INLET COVERS TYPE HM EACH	611.0630 INLET COVERS TYPE HM-GJ EACH	611.3230 INLETS 2X3-FT EACH	650.4000 CONSTRUCTION STAKING STORM SEWER EACH
3060-02-70	0010	1.3	684+52	12'	"NB" LT	884.95	-	-	1	-	-	-	-
	0010	1.1	686+31	12'	"SB" RT	887.46	886.46	3.00	-	1	-	1	1
	0010	1.2	686+31	12'	"NB" LT	887.04	886.04	2.17	-	1	-	1	1
	0010	2.1	691+55	12'	"NB" LT	888.65	887.65	2.35	-	-	1	1	1
	0010	2.2	691+55	22'	"SB" RT	883.83	887.83	2.17	-	-	1	1	1
	0010	2.3	696+09	12'	"SB" RT	886.39	885.39	2.23	-	-	1	1	1
	0010	2.4	696+09	22'	"NB" LT	886.18	885.18	2.17	-	-	1	1	1
	0010	2.5	697+12	12'	"SB" RT	885.82	884.82	2.70	-	-	1	1	1
	0010	2.6	697+12	22'	"NB" LT	885.61	884.61	3.24	-	-	1	1	1
	0010	3.1	700+00	12'	"NB" LT	884.08	883.08	2.00	-	1	-	1	1
	0010	3.2	702+08	12'	"SB" RT	883.13	882.13	2.54	-	1	-	1	1
	0010	3.3	702+09	11'	"NB" LT	883.20	882.20	2.67	-	1	-	1	1
								TOTAL 0010	1	5	6	11	11

RIPRAP

CATEGORY	STATION	LOCATION	606.0200 RIPRAP MEDIUM CY	645.0120 GEOTEXTILE FABRIC TYPE HR SY
0010	684+00	RT	8	26
0010	684+50	LT	8	26
0010	686+30	LT	8	26
0010	691+55	LT	4	14
0010	702+25	RT	4	14
0010	709+80	RT	4	14
		TOTAL 0010	36	120

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STORM SEWER PIPES AND ENDWALLS

PROJECT I.D.	CATEGORY	STATION	FROM STRUCTURE	TO STRUCTURE	INLET ELEV.	OUTLET ELEV.	OUTFALL OFFSET	SLOPE	LOCATION	522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH LF	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	609.0124 RELAID STORM SEWER 24-INCH LF	*JOINT TIES EACH
3060-02-70	0010	684+43	EX INLET	3.1	-	-	80'	-	"NB" LT	-	-	24	6
	0010	684+07	3.1	EX OUTLET	-	-	77'	-	"NB" RT	-	-	24	6
	0010	686+31	1.2	1.1	883.87	883.76	-	1.0%	"NB" LT	-	11	-	-
	0010	686+31	1.1	OUTLET	883.46	882.87	49'	1.0%	"SB" LT	1	60	-	6
	0010	691+55	2.2	2.1	885.66	885.60	-	1.0%	"NB" LT	-	6	-	-
	0010	691+55	2.1	EX OUTLET	885.30	884.33	45'	1.9%	"SB" LT	-	-	66	6
	0010	696+09	2.3	2.4	883.16	883.11	-	1.0%	"NB" LT	-	6	-	-
	0010	696+09	2.4	2.6	883.01	882.06	-	0.9%	"NB" LT	-	103	-	-
	0010	697+12	2.5	2.6	882.12	882.06	-	1.0%	"NB" LT	-	6	-	-
	0010	697+12	2.6	OUTLET	881.37	880.67	46'	1.0%	"NB" RT	1	68	-	6
	0010	702+09	3.1	3.3	881.08	880.04	-	0.5%	"NB" LT	-	209	-	-
	0010	702+09	3.2	3.3	879.59	879.53	-	1.0%	"NB" LT	-	6	-	-
	0010	702+38	3.3	OUTLET	879.53	879.21	43'	0.5%	"NB" RT	1	62	-	6
									TOTAL 0010	3	537	114	36

PIPE UNDERDRAIN 6-INCH

PROJECT I.D.	CATEGORY	STATION	TO	STATION	LOCATION	612.0106 PIPE UNDERDRAIN 6-INCH LF
3060-02-70	0010	684+79	-	692+12	WEST OF BRIDGE	677
	0010	695+12	-	704+50	EAST OF BRIDGE	658
					TOTAL 0010	1,335

3

BEAM GUARD

PROJECT I.D.	CATEGORY	STATION	TO	STATION	LOCATION	614.0220 STEEL THRIE BEAM BULLNOSE TERMINAL EACH	614.0230 STEEL THRIE BEAM LF	614.2300 MGS GUARDRAIL 3 LF	614.234 MGS GUARDRAIL 3 L LF	614.2500 MGS THRIE BEAM TRANSITION LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH
3060-02-62	0010	652+70	-	655+20	RT	-	-	38	113	-	2
	0010	652+70	-	655+20	LT	-	-	38	113	-	2
					SUBTOTAL	0	0	75	225	0	4
3060-02-70	0010	690+45	-	691+50	RT	-	-	12.5	-	39.5	1
	0010	695+80	-	696+70	LT	-	-	12.5	-	39.5	1
	0010				US 151 MEDIAN	2	282	-	-	-	-
					SUBTOTAL	2	282	25	0	79	2
					TOTAL 0010	2	282	100	225	79	6

BARRIER SYSTEM GRADING SHAPING FINISHING

PROJECT I.D.	CATEGORY	STATION	TO	STATION	LOCATION	*BORROW (CY)	614.0010 BARRIER SYSTEM GRADING SHAPING FINISHING EACH
3060-02-62	0010	652+70	-	655+20	LT	40	1
	0010	652+70	-	655+20	RT	30	1
					SUBTOTAL		2
3060-02-70	0010	690+45	-	691+50	RT	10	1
	0010	695+80	-			15	1
	0010	-			USH 151 MEDIAN	10	1
					SUBTOTAL		3
					TOTAL 0010		5

*BORROW WILL USE 1-1/4" BASE AGGREGATE DENSE.
FOR INFORMATIONAL PURPOSES ONLY.
ITEM IS PAID FOR PER EACH BARRIER SYSTEM.

LANDSCAPING

PROJECT I.D.	CATEGORY	STATION	TO	STATION	LOCATION	629.0210 FERTILIZER TYPE B CWT	630.0110 SEEDING MIXTURE NO. 10 LB	SPV.0085.01 NO MOW LAWN SEED LB
3060-02-62	0010	634+50			CULVERT	0.02	1	-
					SUBTOTAL	0.02	1	0
3060-02-70	0010	677+00	-	688+00	SB	0.62	14	-
	0010	677+00	-	687+58	NB	0.60	13	-
	0010	7+65	-	9+67	RAMP B LT	0.13	3	-
	0010	8+36	-	9+74	RAMP B RT	0.10	3	-
	0010	10+70	-	13+50	RAMP C LT	0.17	4	-
	0010	10+72	-	14+00	RAMP C RT	0.17	4	-
	0010	685+28	-	688+70	MEDIAN	0.22	-	16
	0010	689+15	-	691+48	NB	0.14	3	-
	0010	688+80	-	692+33	SB	0.20	5	-
	0010	694+90	-	698+09	NB	0.18	4	-
	0010	695+75	-	698+27	SB	0.15	4	-
	0010	7+18	-	9+75	RAMP A LT	0.13	3	-
	0010	7+50	-	9+77	RAMP A RT	0.15	4	-
	0010	10+75	-	12+50	RAMP D LT	0.11	3	-
	0010	10+82	-	12+35	RAMP D RT	0.10	3	-
	0010	698+32	-	702+11	MEDIAN	0.24	-	17
	0010	699+11	-	704+32	NB	0.30	7	-
	0010	699+66	-	704+32	SB	0.27	6	-
	0010	710+26	-	717+50	NB	0.41	9	-
					SUBTOTAL	4.39	92	33
					TOTAL 0010	4.41	93	33

3

SILT FENCE

PROJECT I.D.	CATEGORY	STATION	TO	STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF
3060-02-62	0010	609+13	-	677+00	MAINLINE	300	300
					SUBTOTAL	300	300
3060-02-70	STAGE 1						
	0010	699+13	-	704+75	EB SHOULDER	570	570
	0010	710+27	-	71+88	EB SHOULDER	762	762
	STAGE 2						
	0010	683+85	-	688+01	WB SHOULDER	419	419
	0010	10+77	-	14+14	RAMP C LT SHOULDER	356	356
	0010	10+80	-	14+32	RAMP C RT SHOULDER	502	502
	0010	689+27	-	692+42	WB SHOULDER	317	317
	0010	695+76	-	698+13	WB SHOULDER	241	241
	0010	10+89	-	12+88	RAMP D LT SHOULDER	227	227
	0010	11+05	-	12+66	RAMP D RT SHOULDER	160	160
	0010	699+80	-	701+06	WB SHOULDER	128	128
	0010	703+32	-	708+25	WB SHOULDER	493	493
	STAGE 3						
	0010	685+06	-	687+84	EB SHOULDER	280	280
	0010	6+65	-	9+47	RAMP B LT SHOULDER	272	272
	0010	8+14	-	9+58	RAMP B RT SHOULDER	328	328
	0010	688+92	-	691+50	EB SHOULDER	145	145
	0010	694+92	-	697+95	EB SHOULDER	301	301
	0010	6+80	-	9+56	RAMP A LT SHOULDER	238	238
	0010	6+72	-	9+57	RAMP A RT SHOULDER	319	319
	0010	699+02	-	708+13	EB SHOULDER	914	914
	0010	708+97	-	709+44	EB SHOULDER	50	50
	0010	710+06	-	717+32	EB SHOULDER	755	755
	STAGE 4						
	0010	676+45	-	679+11	WB SHOULDER	237	237
	0010	676+52	-	677+25	EB SHOULDER	78	78
	0010	677+62	-	679+60	EB SHOULDER	199	199
	0010	679+52	-	688+35	WB SHOULDER	901	901
	0010	679+99	-	687+97	EB SHOULDER	824	824
	0010	712+79	-	717+32	WB SHOULDER	455	455
					SUBTOTAL	10,471	10,471
					TOTAL 0010	10,771	10,771

CONCRETE CORRUGATED MEDIAN

PROJECT I.D.	CATEGORY	STATION	TO	STATION	LOCATION	620.0100 CONCRETE CORRUGATED MEDIAN SF
3060-02-70	0010	684+75	-	685+60	LT	468
	0010	702+10	-	702+60	LT	447
					TOTAL 0010	915

MISC EROSION CONTROL

PROJECT I.D.	CATEGORY	STATION	TO	STATION	LOCATION	628.7015 INLET PROTECTION TYPE C EACH	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE DITCH CHECKS EACH
3060-02-70	STAGE 1							
	0010	684+00	-	688+00	MEDIAN	3	-	-
	0010	688+00	-	692+00	MEDIAN	4	-	-
	0010	696+00	-	698+00	MEDIAN	2	-	-
	0010	698+00	-	704+00	MEDIAN	3	-	-
	0010	702+11	-	703+10	EB	-	-	2
	0010	704+81	-	710+21	EB	-	36	-
	STAGE 2							
	0010	11+45	-	13+50	RAMP B	-	54	-
	0010	684+00	-	688+00	MEDIAN	4	-	-
	0010	685+32	-	696+08	WB	-	-	3
	0010	688+00	-	692+00	MEDIAN	4	-	-
	0010	696+00	-	698+00	MEDIAN	2	-	-
	0010	698+00	-	704+00	MEDIAN	2	-	-
	0010	701+00	-	705+01	EB	-	54	-
	0010	708+08	-	709+85	WB	-	-	3
	0010	710+04	-	711+99	EB	-	54	-
	0010	714+00	-	717+01	EB	-	54	-
	STAGE 3							
	0010	684+00	-	688+00	MEDIAN	-	-	-
	0010	688+00	-	692+00	MEDIAN	4	-	-
	0010	695+10	-	702+09	EB	-	-	3
	0010	696+00	-	698+00	MEDIAN	2	-	-
	0010	698+00	-	704+00	MEDIAN	2	-	-
	0010	705+00	-	707+00	EB	-	36	-
	0010	708+12	-	709+85	EB	-	-	2
	0010	710+04	-	710+85	EB	-	36	-
	0010	712+95	-	717+05	EB	-	54	-
	STAGE 4							
	0010	679+16	-	679+50	WB & EB	-	-	2
	0010	684+00	-	688+00	MEDIAN	2	-	-
					TOTAL 0010	34	378	15

3

MARKERS CULVERT END

PROJECT I.D.	CATEGORY	STATION	LOCATION	633.5200 MARKERS CULVERT END EACH
3060-02-62	0010	634+50	RT	1
	0010	634+50	LT	1
			SUBTOTAL	2
3060-02-70	0010	-		1
	0010	-		1
	0010	685+31	LT	1
	0010	691+55	LT	1
	0010	697+12	RT	1
	0010	702+09	RT	1
	0010	709+86	LT/RT	2
			SUBTOTAL	8
			TOTAL 0010	10

PERMANENT SIGNS

PROJECT I.D.	CATEGORY	SIGN NO.	STATION	LOCATION	SIGN CODE	SIZE			634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	634.0620 POSTS WOOD 4X6-INCH X 20-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	SIGN MESSAGE	LOCATION BASED ON NB ALIGNMENT REMARKS
3060-02-62	0010	1-1	606+35	RT	J1-1	24	X	39	1	-	-	6.5	-	J SERIES	900' WEST OF PROJECT
	0010	1-2	608+75	RT	J13-1	24	X	45	1	-	-	7.5	-	J SERIES	-
	0010	1-3	607+55	RT	D2-2	78	X	24	2	-	-	13.0	-	DIRECTIONAL SIGNS	200' SOUTH OF PROJECT
	0010	1-4	608+50	RT	J4-1	24	X	36	1	-	-	6.0	-	J SERIES	100' SOUTH OF PROJECT
	0010	1-5	609+90	RT	R1-1	30	X	30	1	-	-	6.3	-	STOP	-
	0010	1-6	610+00	RT	J3-1	24	X	57	1	-	-	9.5	-	J SERIES	-
	0010	1-7	610+05	LT	R1-1	30	X	30	1	-	-	6.3	-	STOP	-
	0010	1-8	610+85	LT	J3-1	24	X	57	1	-	-	9.5	-	J SERIES	-
	0010	1-9	610+85	RT	J4-1	24	X	36	1	-	-	6.0	-	J SERIES	-
	0010	1-10	612+35	RT	R2-1	24	X	30	1	-	-	7.5	-	SPEED LIMIT 55	-
	0010	1-11	614+30	RT	D2-1	72	X	15	2	-	-	7.5	-	DIRECTIONAL SIGNS	-
	0010	1-12	615+50	RT	I55-56	30	X	36	1	-	-	7.5	-	ADOPT-A-HIGHWAY	-
	0010	1-13	615+50	RT	W14-3	48	X	36	-	-	-	-	12.0	NO PASSING ZONE	ON SAME POST AS ABOVE
	0010	1-14	616+90	LT	D1-1	66	X	15	2	-	-	6.9	-	DIRECTIONAL SIGN	-
	0010	1-15	607+95	RT	R2-1	24	X	30	1	-	-	5.0	-	SPEED LIMIT 55	
	0010	2-1	622+25	LT	J2-1	24	X	57	1	-	-	9.5	-	J SERIES	-
	0010	2-2	634+15	LT	W14-3	48	X	36	1	-	-	-	12.0	NO PASSING ZONE	-
	0010	4-1	655+00	RT	W14-3	48	X	36	1	-	-	-	12.0	NO PASSING ZONE	-
	0010	4-2	665+75	LT	R1-1	36	X	36	1	-	-	9.0	9.0	STOP	-
	0010	5-1	674+82	LT	W14-3	48	X	36	1	-	-	12.0	12.0	NO PASSING ZONE	-
	0010	5-2	674+87	LT	D2-1	72	X	15	2	-	-	-	7.5	MARSHALL 12	-
	0010	5-3	676+75	RT	W6-1	36	X	36	1	-	-	-	9.0	MEDIAN AHEAD SYMBOL	-
	0010	5-4	676+90	LT	R2-1	30	X	36	1	-	-	7.5	7.5	SPEED LIMIT 55	-
								SUBTOTAL	26	0	0	142.9	81.0		
3060-02-70	0010	6-1	680+50	RT	J1-1	24	X	39	1	-	-	6.5	-	J-SERIES	-
	0010	6-2	681+00	LT	J4-1	24	X	36	1	-	-	6.0	-	J-SERIES	-
	0010	6-3	682+20	LT	W6-3	36	X	36	1	-	-	-	9.0	CROSS TRAFFIC PICTURE	-
	0010	6-5	683+80	RT	D1-72	120	X	60	-	2	-	50.0	-	DIRECTIONAL SIGN	-
	0010	6-6	684+50	LT	R5-1	36	X	36	1	-	-	9.0	-	DO NOT ENTER	-
	0010	6-7	685+30	LT	R4-7	24	X	30	1	-	-	5.0	-	KEEP RIGHT	-
	0010	6-8	685+30	LT	W5-54	18	X	18	-	-	-	-	2.3		ON SAME POST AS ABOVE
	0010	6-9	685+50	RT	R5-1A	42	X	30	1	-	-	8.8	-	WRONG WAY	-
	0010	6-10	686+30	LT	R5-1A	42	X	30	1	-	-	8.8	-	WRONG WAY	-
	0010	6-11	686+30	LT	W6-2	36	X	36	-	-	-	-	9.0	END MEDIAN	ON SAME POST AS ABOVE
	0010	6-13	867+60	RT	D1-71	78	X	60	-	2	-	32.5	-	DIRECTIONAL SIGN	
	0010	6-14	867+60	RT	R5-1	36	X	36	-	-	-	9.0	-	DO NOT ENTER	ON SAME POST AS ABOVE
	0010	6-15	688+55	LT	R3-2	24	X	24	1	-	-	4.0	-	NO LEFT TURN	-
	0010	6-16	688+90	RT	J3-1	24	X	57	-	1	-	9.5	-	J SERIES	-
	0010	6-17	689+10	RT	R6-2L	24	X	30	1	-	-	5.0	-	ONE WAY	-
	0010	6-18	689+30	RT	D1-70	66	X	30	2	-	-	13.8	-	DIRECTIONAL SIGN	-
	0010	6-19	689+50	LT	R5-1	36	X	36	1	-	-	9.0	-	DO NOT ENTER	-
	0010	6-21	689+90	LT	R4-7	24	X	30	1	-	-	5.0	-	MEDIAN AHEAD	-
	0010	6-22	690+50	LT	R5-1A	42	X	30	1	-	-	8.8	-	WRONG WAY	-
	0010	6-24	690+50	LT	W4-2L	36	X	36	-	-	-	-	9.0	LEFT LANE ENDS	ON SAME POST AS ABOVE
	0010	6-25	691+50	RT	J2-1	24	X	57	-	1	-	9.5	-	J SERIES	-
	0010	6-26	691+50	LT	J2-1	24	X	57	1	-	-	9.5	-	J SERIES	-
	0010	6-27	691+85	LT	R3-20L	24	X	36	1	-	-	6.0	-	BEGIN LEFT TURN LANE	-
	0010	7-1	695+40	LT	R3-20L	24	X	36	1	-	-	6.0	-	BEGIN LEFT TURN HERE	-
	0010	7-3	696+25	RT	W4-2L	36	X	36	1	-	-	-	9.0	LEFT LANE ENDS	-

CONTINUED

PERMANENT SIGNS CONTINUED

PROJECT I.D.	CATEGORY	SIGN NO.	STATION	LOCATION	SIGN CODE	SIZE			634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	634.0620 POSTS WOOD 4X6-INCH X 20-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	SIGN MESSAGE	LOCATION BASED ON NB ALIGNMENT REMARKS
3060-02-70	0010	7-4	696+25	RT	R5-1A	42	X	30	-	-	-	8.8	-	WRONG WAY	ON SAME POST AS ABOVE
	0010	7-6	696+25	LT	J2-1	24	X	57	-	1	-	9.5	-	J SERIES	-
	0010	7-7	696+25	LT	J2-1	24	X	57	1	-	-	9.5	-	J SERIES	-
	0010	7-8	697+50	LT	R4-7	24	X	30	1	-	-	5.0	-	MEDIAN STAY RIGHT	-
	0010	7-10	697+60	RT	D1-70	84	X	30	2	-	-	17.5	-	DIRECTIONAL SIGN	-
	0010	7-11	697+60	RT	R5-1	36	X	36	1	-	-	9.0	-	DO NOT ENTER	
	0010	7-12	698+05	LT	R6-2L	24	X	30	1	-	-	5.0	-	ONE WAY	-
	0010	7-13	698+25	LT	J3-1	24	X	57	-	1	-	9.5	-	J SERIES	-
	0010	7-15	698+50	LT	R3-2	24	X	24	1	-	-	4.0	-	NO LEFT TURN PICTURE	-
	0010	7-18	699+75	LT	D1-71	78	X	60	-	-	2	32.5	-	DIRECTIONAL SIGN	-
	0010	7-16	699+75	LT	R5-1	30	X	30	-	-	-	6.3	-	DO NOT ENTER	ON SAME POST AS ABOVE
	0010	7-19	701+30	RT	W6-2	36	X	36	1	-	-	-	9.0	MEDIAN ENDS CROSS TRAFFIC	-
	0010	7-20	701+30	RT	R5-1A	42	X	30	-	-	-	8.8	-	WRONG WAY	ON SAME POST AS ABOVE
	0010	7-22	703+30	LT	R4-7	24	X	30	1	-	-	5.0	-	STAY RIGHT	-
	0010	7-23	703+30	LT	W5-54	18	X	18	-	-	-	-	2.3		ON SAME POST AS ABOVE
	0010	7-24	702+20	LT	R5-1A	42	X	30	1	-	-	8.8	-	WRONG WAY	-
	0010	7-27	703+25	LT	D1-72	120	X	60	-	-	2	50.0	-	DIRECTIONAL SIGN	-
	0010	7-28	703+30	RT	R5-1	36	X	36	1	-	-	9.0	-	DO NOT ENTER	-
	0010	7-29	704+60	RT	W6-3	36	X	36	1	-	-	-	9.0	CROSS TRAFFIC	-
	0010	8-1	709+40	RT	J4-2	48	X	36	1	-	-	12.0	-	J SERIES	-
	0010	8-2	709+40	LT	W6-1	36	X	36	1	-	-	-	9.0	MEDIAN AHEAD	-
	0010	8-4	711+50	LT	J1-1	24	X	39	1	-	-	6.5	-	J SERIES	-
	0010	8-5	717+75	RT	W54-59	30	X	30	1	-	-	6.3	-	HOSPITAL ENTRANCE	-
	0010	9-1	1+32	RAMP A RT	W3-1	36	X	36	1	-	-	-	9.0	STOP AHEAD	-
	0010	9-2	3+32	RAMP A RT	J2-3	72	X	57	-	1	-	28.5	-	J SERIES	-
	0010	9-3	5+32	RAMP A RT	D1-3	78	X	36	-	2	-	19.5	-	DIRECTIONAL SIGN	-
	0010	9-4	6+80	RAMP A RT	D1-2	102	X	30	-	-	2	21.3	-	DIRECTIONAL SIGN	-
	0010	9-6	7+75	RAMP A RT	R5-1A	36	X	24	-	-	-	6.0	-	WRONG WAY	ON SAME POST AS ABOVE
	0010	9-7	7+75	RAMP A LT	R5-1A	36	X	24	1	-	-	6.0	-	WRONG WAY	-
	0010	9-9	9+50	RAMP A LT	R3-1	24	X	24	-	1	-	4.0	-	NO RIGHT TURN	-
	0010	9-10	9+50	RAMP A LT	R5-1	30	X	30	-	-	-	6.3	-	DO NOT ENTER	ON SAME POST AS ABOVE
	0010	9-11	9+50	RAMP A RT	R1-1	36	X	36	1	-	-	9.0	-	STOP	-
	0010	9-12	9+50	RAMP A RT	R1-1	36	X	36	1	-	-	9.0	-	STOP	-
	0010	9-13	9+50	RAMP A RT	R6-2L	24	X	30	-	-	-	5.0	-	ONE WAY	ON SAME POST AS BELOW
	0010	9-14	9+50	RAMP A LT	R1-1	36	X	36	-	1	-	9.0	-	STOP	-
	0010	9-15	9+50	RAMP A LT	R6-3	30	X	24	-	-	-	5.0	-	DIVIDED HIGHWAY	ON SAME POST AS ABOVE
	0010	9-16	11+50	RAMP D RT	R1-2	36	X	31	1	-	-	7.8	-	YIELD	-
	0010	9-17	14+81	RAMP D RT	R5-57	36	X	36	1	-	-	9.0	-	PED/BIKE PROHIBITED	-
	0010	10-1	5+96	RAMP B LT	R5-57	36	X	36	1	-	-	9.0	-	PED/BIKE PROHIBITED	-
	0010	10-2	8+90	RAMP B LT	R1-2	36	X	31	1	-	-	7.8	-	YIELD	-
	0010	10-3	10+70	RAMP C RT	R6-2L	24	X	30	-	-	-	5.0	-	ONE WAY	ON SAME POST AS 10-10
	0010	10-4	10+75	RAMP C RT	R5-1	30	X	30	1	-	-	6.3	-	DO NOT ENTER	ON SAME POST AS ABOVE
	0010	10-6	10+90	RAMP C LT	R1-1	36	X	36	-	1	-	9.0	-	STOP	-
	0010	10-7	10+75	RAMP C RT	R1-1	36	X	36	-	1	-	9.0	-	STOP	-
	0010	10-8	10+75	RAMP C RT	R3-1	24	X	24	-	-	-	4.0	-	NO RIGHT TURN	SAME POST AS 10-4
	0010	10-9	10+70	RAMP C RT	R1-1	36	X	36	1	-	-	9.0	-	STOP	-
	0010	10-10	10+70	RAMP C RT	R6-3	30	X	24	-	-	-	5.0	-	DIVIDED HIGHWAY	ON SAME POST AS ABOVE
	0010	10-12	12+80	RAMP C LT	J3-4	96	X	57	-	-	2	38.0	-	J SERIES	
	0010	10-15	14+57	RAMP C LT	D1-2	72	X	30	-	2	-	15.0	-	DIRECTIONAL SIGN	-
	0010	10-17	17+50	RAMP C LT	J2-3	72	X	57	-	-	2	28.5	-	J SERIES	-
	0010	10-18	19+51	RAMP C LT	W3-1	36	X	36	1	-	-	-	9.0	STOP AHEAD	-
					SUBTOTAL				45	17	10	735.0	85.5		
					TOTAL 0010				71	17	10	877.9	166.5		

SIGN REMOVALS

PROJECT I.D.	CATEGORY	SIGN NUMBER	STATION	LOCATION	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	SIGN MESSAGE	REMARKS
3060-02-62	0010	1-2	608+75	RT	2	1	J SERIES	-
	0010	1-3	607+55	RT	1	2	DIRECTIONAL SIGNS	200' SOUTH OF PROJECT
	0010	1-4	609+20	RT	2	1	J SERIES	100' SOUTH OF PROJECT
	0010	1-5	609+90	RT	1	1	STOP	-
	0010	1-6	610+00	RT	3	1	J SERIES	-
	0010	1-7	610+05	LT	1	1	STOP	-
	0010	1-8	610+85	LT	3	1	J SERIES	-
	0010	1-9	610+85	RT	2	1	J SERIES	-
	0010	1-11	614+30	RT	1	2	DIRECTIONAL SIGNS	-
	0010	1-12	615+50	RT	1	1	ADOPT-A-HIGHWAY	-
	0010	1-13	615+50	RT	1	-	NO PASSING ZONE	ON SAME POST AS ABOVE
	0010	1-14	616+90	LT	1	2	DIRECTIONAL SIGN	-
	0010	2-1	622+25	LT	3	1	J SERIES	-
	0010	2-2	634+15	LT	1	1	NO PASSING ZONE	-
	0010	4-1	655+00	RT	1	1	NO PASSING ZONE	-
	0010	4-2	665+75	LT	1	1	STOP	-
	0010	5-1	674+00	LT	1	2	NO PASSING ZONE	-
	0010	5-2	674+75	LT	1	1	MARSHALL 12	-
	0010	5-3	675+15	LT	1	1	J SERIES	-
	0010	5-4	676+75	RT	1	1	MEDIAN AHEAD	-
	0010	5-5	676+90	LT	1	1	SPEED LIMIT 55	-
				SUBTOTAL	30	24		
3060-02-70	0010	6-1	680+50	RT	1	1	JCT 151	-
	0010	6-3	682+20	LT	1	1	CROSS TRAFFIC SIGN	-
	0010	6-4	683+80	RT	1	2	COLUMBUS/BEAVER DAME/MADISON	-
	0010	6-6	684+50	LT	1	1	DO NOT ENTER	-
	0010	6-7	685+40	LT	1	1	STAY LEFT	-
	0010	6-9	685+50	RT	1	1	WRONG WAY	-
	0010	6-10	686+50	LT	1	1	WRONG WAY	-
	0010	6-12	687+60	RT	1	2	SOUTH 151 ARROW NORTH 151 ARROW	-
	0010	6-14	687+60	RT	1	-	DO NOT ENTER	ON SAME POST AS ABOVE
	0010	6-15	688+65	LT	1	1	NO LEFT TURN	-
	0010	6-16	689+00	RT	1	1	NORTH 73 ARROW	-
	0010	6-17	689+00	RT	1	1	ONE WAY	-
	0010	6-19	689+50	LT	1	1	DO NOT ENTER	-
	0010	6-20	689+50	LT	1	-	SOUTH 151 ARROW	ON SAME POST AS ABOVE
	0010	6-21	689+90	LT	1	1	STAY RIGHT	-
	0010	6-23	690+35	RT	1	1	LEFT LANE ENDS	-
	0010	6-22	690+40	LT	1	1	WRONG WAY	ON SAME POST AS ABOVE
	0010	6-27	691+85	LT	1	1	LEFT TURN LANE	-
	0010	6-28	692+00	LT	1	2	MARSHALL/MADISON	-
	0010	6-29	684+75	LT	1	1	MEDIAN AHEAD SIGN	-
	0010	6-30	686+50	LT	1	-	LEFT LANE ENDS	ON SAME POST AS 6-10
	0010	6-31	687+45	LT	1	1	LEFT LANE ENDS	-
	0010	7-1	695+50	RT	1	1	LEFT TURN LANE	-
	0010	7-2	695+25	LT	1	2	COLUMBUS/AMTRAK/BEAVER DAM	-
	0010	7-5	696+10	LT	1	2	SOUTH 151 LEFT SOUTH 73 STRAIGHT	-

CONTINUED

SIGN REMOVALS CONTINUED

PROJECT I.D.	CATEGORY	SIGN NUMBER	STATION	LOCATION	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	SIGN MESSAGE	REMARKS
3060-02-70	0010	7-3	696+20	RT	1	1	LEFT LANE ENDS	-
	0010	7-4	696+20	RT	1	-	WRONG WAY	ON SAME POST AS ABOVE
	0010	7-8	697+00	LT	1	1	KEEP RIGHT MEDIAN WITH ARROW	-
	0010	7-9	697+65	RT	1	2	J SERIES	-
	0010	7-11	697+65	RT	1	-	DO NOT ENTER	ON SAME POST AS ABOVE
	0010	7-12	698+05	LT	1	1	ONE WAY	-
	0010	7-13	698+25	LT	1	1	J SERIES	-
	0010	7-14	698+50	LT	1	1	ONCOMING TRAFFIC DOES NOT STOP	-
	0010	7-15	698+50	LT	1	-	NO LEFT TURN ARROW	ON SAME POST AS ABOVE
	0010	7-16	699+80	LT	1	1	DO NOT ENTER	-
	0010	7-17	699+80	LT	1	1	J-SERIES	ON SAME POST AS ABOVE
	0010	7-19	701+30	RT	1	1	CROSS TRAFFIC	-
	0010	7-20	701+30	RT	1	-	WRONG WAY	ON SAME POST AS ABOVE
	0010	7-21	696+20	RT	1	-	LEFT LANE ENDS	ON SAME POST AS 7-3
	0010	7-22	700+00	LT	1	1	KEEP RIGHT	-
	0010	7-24	702+20	LT	1	1	WRONG WAY	-
	0010	7-25	699+35	LT	1	-	LEFT LANE ENDS	-
	0010	7-26	703+15	LT	1	2	J SERIES	-
	0010	7-30	700+75	LT	1	1	LEFT LANE ENDS	-
	0010	7-31	700+75	RT	1	1	LEFT LANE ENDS	-
	0010	8-2	709+50	LT	1	1	MEDIAN AHEAD	-
	0010	8-3	710+75	RT	1	1	REDUCE SPEED AHEAD/35 MPH	-
	0010	8-5	715+00	RT	1	-	HOSTPITAL ENTRANCE	-
	0010	9-1	1+32	RAMP A RT	1	1	STOP AHEAD	-
	0010	9-2	3+32	RAMP A RT	1	2	J SERIES	-
	0010	9-3	5+32	RAMP A RT	1	2	CHISTOPHER COLUMBUS MUSEUM	-
	0010	9-4	6+80	RAMP A RT	1	2	COLUMBUS/AMTRAK	-
	0010	9-5	7+80	RAMP A RT	1	-	HOSPITAL RIGHT ARROW	ON SAME POST AS ABOVE
	0010	9-6	7+80	RAMP A RT	1	-	WRONG WAY	ON SAME POST AS ABOVE
	0010	9-7	7+80	RAMP A LT	1	1	WRONG WAY	-
	0010	9-8	8+30	RAMP A RT	1	2	J SERIES	-
	0010	9-9	9+50	RAMP A LT	1	1	NO RIGHT TURN	-
	0010	9-10	9+50	RAMP A LT	1	-	DO NOT ENTER	ON SAME POST AS ABOVE
	0010	9-11	9+50	RAMP A LT	1	1	STOP	-
	0010	9-12	9+50	RAMP A RT	1	1	STOP	-
	0010	9-13	9+50	RAMP A LT	1	1	ONE WAY	
	0010	9-14	9+50	RAMP A LT	1	1	STOP	ON SAME POST AS ABOVE
	0010	9-15	9+50	RAMP A LT	1	-	DO NOT ENTER	ON SAME POST AS 9-9
	0010	9-16	11+50	RAMP D RT	1	1	YIELD	-
	0010	9-17	14+81	RAMP D RT	1	1	PED/BIKE PROHIBITED	-
	0010	10-1	5+96	RAMP B LT	1	1	PED/BIKE PROHIBITED	-
	0010	10-2	8+90	RAMP B LT	1	1	YIELD	-
	0010	10-5	10+70	RAMP C LT	1	1	J SERIES	-
	0010	10-9	10+70	RAMP C RT	1	1	STOP	-
	0010	10-10	10+70	RAMP C RT	1	-	DIVIDED HIGHWAY	ON SAME POST AS ABOVE
	0010	10-3	10+70	RAMP C RT	1	-	ONE WAY	ON SAME POST AS ABOVE
	0010	10-4	10+75	RAMP C RT	1	1	DO NOT ENTER	-
	0010	10-8	10+75	RAMP C LT	1	-	NO RIGHT TURN	ON SAME POST AS ABOVE
	0010	10-13	11+70	RAMP C RT	1	1	WRONG WAY	-
	0010	10-14	11+70	RAMP C LT	1	1	WRONG WAY	-
	0010	10-11	11+70	RAMP C LT	1	-	HOSPITAL LEFT ARROW	-
	0010	10-15	14+57	RAMP C LT	1	2	COLUMBUS/MARSHALL	-
	0010	10-16	17+50	RAMP C LT	1	1	J SERIES	-
	0010	10-18	19+51	RAMP C LT	1	1	STOP AHEAD	-
				SUBTOTAL	79	73		
				TOTAL 0010	109	97		

3

MOVING SIGNS

PROJECT I.D.	CATEGORY	STATION		MOVED TO STATION	LOCATION	638.2102 MOVING SIGNS TYPE II EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	REMARKS
3060-02-70	0010	691+90	TO	693+00	LT	1	-	BEGIN LEFT TURN LN
	0010	695+50	TO	694+50	RT	1	-	BEGIN LEFT TURN LN
	0010	702+00	TO	702+00	RT	1	1	SPEED LIMIT 45
	0010		STAGE 3 DETOUR			1	2	COLUMBUS & AMTRAK
	0010		STAGE 3 DETOUR			1	2	CHRISTOPHER COLUMBUS MUSEUM
					TOTAL 0010	5	5	

3

TRAFFIC CONTROL

PROJECT I.D.	CATEGORY	STAGE	LOCATION	* DAYS	643.0300 TRAFFIC CONTROL DRUMS DAY	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAY	643.0500 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS EACH	643.0600 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES EACH	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAY
3060-02-70	0010	STAGE 1	STH 73 NB	13	702	13	-	-	-	91
			STH 73 SB	13	390	13	-	-	-	-
	0010	STAGE 2	STH 73	31	1,984	217	61	61	279	372
	0010	STAGE 3	STH 73	28	2,728	279	65	65	434	1,271
	0010	STAGE 4	STH 73	24	527	217	-	-	310	-
	0010	STAGE 5	STH 73 NB	12	1,829	62	-	-	63	434
			STH 73 SB	12	1,798	62	-	-	84	403
				TOTAL 0010	9,958	863	126	126	1,170	2,571

TRAFFIC CONTROL SIGNING

PROJECT I.D.	CATEGORY	STATION	LOCATION	DAYS	643.0900 TRAFFIC CONTROL SIGNS DAY	643.0910 TRAFFIC CONTROL COVERING SIGNS TYPE I EACH	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II EACH	643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE SF	643.1050 TRAFFIC CONTROL SIGNS PCMS DAY	643.3000 TRAFFIC CONTROL DETOUR SIGNS DAY
3060-02-70	0010	STAGE 1	STH 73 NB	13	52	-	-	32	-	-
			STH 73 SB	13	26	-	-	32	-	-
	0010	STAGE 2	STH 73	31	248	-	-	-	-	-
	0010	STAGE 2 DETOUR	PROJECT	31	-	93	2	-	93	1581
	0010	STAGE 3	STH 73	28	224	-	-	-	-	-
	0010	STAGE 3 DETOUR	PROJECT	28	-	28	1	-	28	1120
	0010	STAGE 4	STH 73	24	240	-	-	-	-	-
	0010	STAGE 4 DETOUR	PROJECT	24	-	42	-	-	-	2088
	0010	STAGE 5	STH 73	12	96	-	-	-	-	-
				TOTAL 0010	886	163	3	64	121	4,789

PERMANENT PAVEMENT MARKING

PROJECT I.D.	CATEGORY	STATION	TO	STATION	LOCATION	646.0106 PAVEMENT MARKING EPOXY 4-INCH LF	646.0841.S PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 4-INCH LF	646.0843.S PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH LF	647.0166 PAVEMENT MARKING ARROWS EPOXY TYPE 2 EACH	647.0356 PAVEMENT MARKING WORDS EPOXY EACH	647.0456 PAVEMENT MARKING CURB EPOXY LF	647.0566 PAVEMENT MARKING STOP LINE EPOXY 18-INCH LF	647.0606 PAVEMENT MARKING ISLAND NOSE EPOXY EACH	647.0726 PAVEMENT MARKING DIAGONAL EPOXY 12-INCH LF	647.0856 PAVEMENT MARKING CONCRETE CORRUGATED MEDIAN EPOXY SF	SPV.0090.01 PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH LF
3060-02-62	0010	609+13	-	677+00	MAINLINE	-	-	-	-	-	-	-	-	-	-	17,300
	0010	609+13	-	677+00	SIDEROADS	-	-	-	-	-	-	48	-	-	-	-
					SUBTOTAL	0	0	0	0	0	0	48	0	0	0	17,300
3060-02-70	0010	676+98	-	679+79	-	-	-	-	-	-	-	-	-	-	-	1,160
	0010	679+90	-	684+77	-	-	-	-	-	-	-	-	-	193	-	2,929
	0010	684+77	-	689+15	-	1,519	363	393	2	1	10	-	1	28	181	-
	0010	7+65	-	9+90	RAMP B	475	-	-	-	-	-	-	-	-	-	-
	0010	10+70	-	13+50	RAMP C	566	-	88	-	-	-	53	-	-	-	-
	0010	689+15	-	691+55	-	823	250	-	2	1	10	-	1	-	-	-
	0010	691+55	-	696+05	-	1,804	451	-	-	-	-	-	-	-	-	-
	0010	696+05	-	698+28	-	645	200	-	2	1	12	-	1	-	-	-
	0010	7+50	-	9+48	RAMP A	472	-	96	-	-	-	46	-	-	-	-
	0010	10+61	-	12+35	RAMP D	482	-	-	-	-	-	-	-	-	-	-
	0010	698+28	-	702+06	-	1,253	50	354	2	1	18	-	1	-	-	-
	0010	702+06	-	705+83	-	2,317	-	-	-	-	-	-	-	217	167	-
	0010	705+83	-	709+27	-	2,317	-	199	2	1	-	-	-	43	-	-
	0010	709+27	-	712+82	-	1,422	-	-	-	-	-	-	-	-	-	-
	0010	712+82	-	718+00	-	1,553	513	-	-	-	-	-	-	-	-	-
	0010	718+00	-	722+83	-	968	488	-	-	-	-	-	-	-	-	-
	0010	722+83	-	723+52	-		63	-	-	-	-	-	-	-	-	-
					SUBTOTAL	16,616	2,378	1,130	10	5	50	99	4	481	348	4,089
					TOTAL 0010	16,616	2,378	1,130	10	5	50	147	4	481	348	21,389

TEMP PAVEMENT MARKING

PROJECT I.D.	CATEGORY	STAGE	STATION	TO	STATION	649.0100 TEMPORARY PAVEMENT MARKING 4-INCH LF	649.0300 TEMPORARY PAVEMENT MARKING REFLECTIVE TAPE 4-INCH LF	649.0801 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH LF	649.1000 TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH LF	REMARKS
3060-02-70	0010	STAGE 1	689+50	-	691+50	-	-	200	-	TURN LANE
	0010		696+00	-	697+50	-	-	150	-	TURN LANE
	0010	STAGE 2	680+00	-	712+82	3,282	-	-	-	WHITE EDGE
	0010		712+82	-	717+50	-	468	-	-	WHITE EDGE
	0010		683+35	-	714+00	6,130	-	-	-	DBL YELLOW
	0010		714+00	-	717+50	-	700	-	-	DBL YELLOW
	0010		683+35	-	684+00	65	-	-	-	WHITE EDGE
	0010		686+50	-	707+80	2,130	-	-	-	WHITE EDGE
	0010		709+25	-	714+00	475	-	-	-	WHITE EDGE
	0010		714+00	-	717+50	-	350	-	-	WHITE EDGE
	0010		688+75	-	688+90	-	-	-	15	STOP LINE
	0010	STAGE 3	679+50	-	688+00	-	850	-	-	WHITE EDGE
	0010		688+00	-	692+20	420	-	-	-	WHITE EGDE
	0010		692+20	-	695+60	-	340	-	-	WHITE EDGE
	0010		695+60	-	703+00	740	-	-	-	WHITE EDGE
	0010		704+15	-	711+00	-	685	-	-	WHITE EGDE
	0010		711+00	-	718+30	-	730	-	-	WHITE EDGE
	0010		679+50	-	688+00	-	1,700	-	-	DBL YELLOW
	0010		688+00	-	692+15	830	-	-	-	DBL YELLOW
	0010		692+15	-	695+55	-	680	-	-	DBL YELLOW
	0010		695+55	-	704+50	1,790	-	-	-	DBL YELLOW
	0010		704+50	-	718+30	-	2,760	-	-	DBL YELLOW
	0010		679+50	-	688+00	-	850	-	-	WHITE EDGE
	0010		688+00	-	692+00	400	-	-	-	WHITE EDGE
	0010		692+00	-	695+40	-	340	-	-	WHITE EDGE
	0010		695+40	-	704+50	910	-	-	-	WHITE EDGE
	0010		704+50	-	708+00	-	350	-	-	WHITE EDGE
	0010		708+70	-	718+30	-	960	-	-	WHITE EDGE
	0010		698+15	-	698+30	-	-	-	15	STOP LINE
	0010		708+45	-	708+60	-	-	-	15	STOP LINE
	0010	STAGE 4	699+00	-	702+50	-	700	-	-	WHITE EDGE
	0010	STAGE 5	689+45	-	691+50	-	-	205	-	TURN LANE
	0010		696+00	-	697+50	-	-	150	-	TURN LANE
					TOTALS 0010	17,172	12,463	705	45	

SAWING PAVEMENT

PROJECT I.D.	STAGE	CATEGORY	STATION	TO	STATION	LOCATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF
3060-02-62		0010	609+13	-	677+00	MAINLINE	80	-
		0010	609+13	-	677+00	SIEDROADS	90	-
		0010	609+13	-	677+00	DRIVEWAYS	60	-
						SUBTOTAL	230	0
3060-02-70	STAGE 1	0010	687+90	-	688+75	MAINLINE C&G	-	170
		0010	698+30	-	699+00	MAINLINE C&G	-	140
		0010	699+45	-	700+40	MAINLINE SHLD	-	95
		0010	700+40	-	704+30	MAINLINE SHLD	390	-
		0010	710+25	-	710+75	MAINLINE SHLD	-	50
		0010	710+75	-	716+90	MAINLINE SHLD	615	-
	STAGE 2	0010	687+50		-	MAINLINE	-	30
		0010	688+75	-	691+90	MAINLINE C&G	-	315
		0010	695+30	-	698+30	MAINLINE C&G	-	300
		0010	704+30	-	712+82	MAINLINE SHLD	852	-
		0010	13+50		-	RAMP C	8	15
		0010	12+35		-	RAMP D	8	15
	STAGE 3	0010	686+00		-	MAINLINE	-	40
		0010	705+80		710+30	MAINLINE	-	450
		0010	7+50		-	RAMP A	8	15
		0010	8+70		-	RAMP B	5	130
	STAGE 4	0010	677+00		-	MAINLINE	34	-
		0010	712+82		717+00	MAINLINE SHLD	418	-
						SUBTOTAL	2,338	1,765
						TOTAL 0010	2,568	1,765

FILE NAME : N:\PDS\...\3060-02-00_Misc qty. Sheets.pptx PLOT DATE : May 22, 2014 PLOT BY : DITJJW PLOT NAME : PLOT SCALE : 1:1

CONSTRUCTION STAKING

PROJECT I.D.	CATEGORY	STATION		TO STATION	LOCATION	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.5000 CONSTRUCTION STAKING BASE LF	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB AND GUTTER LF	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH	650.7000 CONSTRUCTION STAKING CONCRETE PAVEMENT LF	650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL LS	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF
3060-02-62	0010	-		634+50	MAINLINE	-	-	-	1	-	-	-
					PROJECT	-	-	-	-	-	1	-
					SUBTOTAL	0	0	0	1	0	1	0
3060-02-70	0010	677+00	-	712+82	PROJECT	3600	3600	-	-	-	1	5760
	0010	684+79	-	691+55	NB	-	-	-	-	676	-	-
	0010	684+79	-	691+97	SB	-	-	-	-	718	-	-
	0010	695+30	-	710+25	NB	-	-	-	-	1495	-	-
	0010	695+65		710+25	SB	-	-	-	-	1460	-	-
	0010	689+79	-	697+14	SB HALF MEDIAN	-	-	388	-	-	-	-
	0010	699+00	-	702+11	SB HALF MEDIAN	-	-	312	-	-	-	-
	0010	10+65	-	10+98	RAMP C	-	-	127	-	-	-	-
	0010	10+74	-	11+05	RAMP D	-	-	208	-	-	-	-
	0010	689+79	-	697+18	SB HALF MEDIAN	-	-	391	-	-	-	-
	0010	699+00	-	702+11	SB HALF MEDIAN	-	-	313	-	-	-	-
	0010	9+42	-	9+78	RAMP A	-	-	177	-	-	-	-
	0010	9+40	-	9+74	RAMP B	-	-	245	-	-	-	-
	0010	707+79	-	709+25	HERITAGE WAY	-	-	72	-	-	-	-
	0010	685+29	-	688+22	MEDIAN	-	-	581	-	-	-	-
	0010	688+22	-	688+70	MEDIAN & NOSE	-	-	106	-	-	-	-
	0010	698+32	-	699+00	MEDIAN & NOSE	-	-	138	-	-	-	-
	0010	-		679+40	DRIVEWAY LT	-	-	-	1	-	-	-
	0010	-		679+75	DRIVEWAY RT	-	-	-	1	-	-	-
	0010	-		709+80	MAINLINE	-	-	-	1	-	-	-
					SUBTOTAL	3600	3600	3058	3	4349	1	5760
					TOTAL 0010	3600	3600	3058	4	4349	2	5760

PERIMETER CONTROL LOG

SPV.0090.02

PROJECT I.D.	CATEGORY	LOCATION	PERIMETER CONTROL LOG LF	REMARKS
3060-02-70	0010	NE QUADRANT OF INTCHG.	470	AROUND SALV. ASPHALTIC MILLINGS
		TOTAL 0010	470	

ROGER & TAMARA WEILAND

NOTE: PROPERTY LINE
LOCATIONS ARE APPROXIMATE.

ROGER & TAMARA WEILAND

32 LF CULVERT PIPE CORRUGATED
STEEL 18-INCH REQ'D
2 APRON ENDWALLS FOR
CULVERT PIPE STEEL 18-INCH REQ'D

ROGER & TAMARA WEILAND

SLOPE INTERCEPT

ROGER & TAMARA WEILAND

AT&T

AT&T

PC: 678+11.40SB

PC: 680+94.53NB

675+00NB | 676+00NB | 677+00SB / 677+00NB | 678+00SB / 678+00NB | 679+00SB / 679+00NB | 680+00SB / 680+00NB | 681+0 / 681+0

ADAM - COLUMBIA ELECTRIC

ROGER & TAMARA WEILAND

56 LF CULVERT PIPE CORRUGATED
STEEL 18-INCH REQ'D
2 APRON ENDWALLS FOR
CULVERT PIPE STEEL 18-INCH REQ'D

WISCONSIN DEPARTMENT
OF TRANSPORTATION

BEGIN PROJECT
STA 677+00

BENCHMARK/CONTROL POINT

NO	STATION	DESCRIPTION	OFFSET	ELEV	NORTHING	EASTING
500	680+59 NB	60 P. NAIL IN LAST FENCE POST	70' LT	882.49	-	-

5

5

EXISTING GROUND

SB

STA 677+00.00
EL 884.32

VPC STA 677+00.00
VPC EL 884.32

VCL = 620.00
K = 375.75

VPI STA 680+10.00
VPI EL 881.59

PROPOSED GROUND

EXISTING GROUND ELEVATION | PROPOSED GROUND ELEVATION

675	676	677	678	679	680
885.49	885.22	884.91	884.62	884.32	883.94	883.74	883.57	883.41	883.30	883.17	883.09	882.92	882.95	882.81	882.87	882.80	882.86	882.82	882.88
				884.32	883.92														

880.00
879.00

EXISTING GROUND

NB

STA 677+00.00
EL 884.32

VPC STA 677+00.00
VPC EL 884.32

VCL = 620.00
K = 347.40

VPI STA 680+10.00
VPI EL 881.49

PROPOSED GROUND

EXISTING GROUND ELEVATION | PROPOSED GROUND ELEVATION

675	676	677	678	679	680
885.49	885.22	884.91	884.62	884.32	883.94	883.74	883.55	883.42	883.28	883.18	883.07	882.95	882.94	882.88	882.88	882.86	882.89	882.89	882.92
				884.32	883.90														

880.00
879.00

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	PLAN AND PROFILE: STH 73	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\13-PLAN & PROFILE\PLAN & PROFILE.DWG
PLOT DATE : 5/21/2014 1:44 PM
PLOT BY : SCHWEIGER, MARC D
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

ROGER & TAMARA WEILAND

500

AT&T

AT&T

NOTE: PROPERTY LINE LOCATIONS ARE APPROXIMATE.

SLOPE INTERCEPT

24 LF RELAID STORM SEWER 24-INCH REQ'D SEE SDD "JOINT TIES FOR CONCRETE PIPE"

CONCRETE CORRUGATED MEDIAN (SEE SSD "CONCRETE CORRUGATED MEDIAN" FOR MORE DETAILS)

STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH

REVERSE SLOPE GUTTER STA 685+25 TO STA 686+30

CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A

PC: 680+94.53NB

PT: 684+65.17SB

PC: 686+65.83SB

680+00SB

681+00SB

682+00SB

683+00SB

684+00SB

685+00SB

686+00SB

681+00NB

682+00NB

683+00NB

684+00NB

685+00NB

686+00NB

MH

HMA PAVEMENT ← → CONCRETE PAVEMENT

N

2

BENCHMARK/CONTROL POINT

NO.	STATION	DESCRIPTION	OFFSET	ELEV.	NORTHING	EASTING
500	680+59 NB	60 P. NAIL IN LAST FENCE POST	70' LT	882.49	-	-
CP2	686+53 NB	5/8"REBAR WITH RED CAP	40' RT	-	312783.41	647391.58

WISCONSIN DEPARTMENT OF TRANSPORTATION

ROGER & TAMARA WEILAND

5

5

SB

VCL = 620.00

K = 375.75

STA 683+20.00
EL 883.97

VPT STA 683+20.00
VPT EL 883.97

PROPOSED GROUND

1.14%

STA 686+50.00
EL 887.73

EXISTING GROUND

EXISTING GROUND ELEVATION

PROPOSED GROUND ELEVATION

680	681	682	683	684	685	686
882.88	882.92	883.05	883.24	883.49	883.82	884.31	884.88	885.45	886.02	886.59	887.16	887.73

880.00

879.00

NB

VCL = 620.00

K = 347.40

STA 683+20.00
EL 884.19

VPT STA 683+20.00
VPT EL 884.19

PROPOSED GROUND

1.01%

STA 686+50.00
EL 887.52

EXISTING GROUND

EXISTING GROUND ELEVATION

PROPOSED GROUND ELEVATION

680	681	682	683	684	685	686
882.92	882.97	883.13	883.35	883.65	884.02	884.49	885.00	885.50	886.01	886.51	887.02	887.52

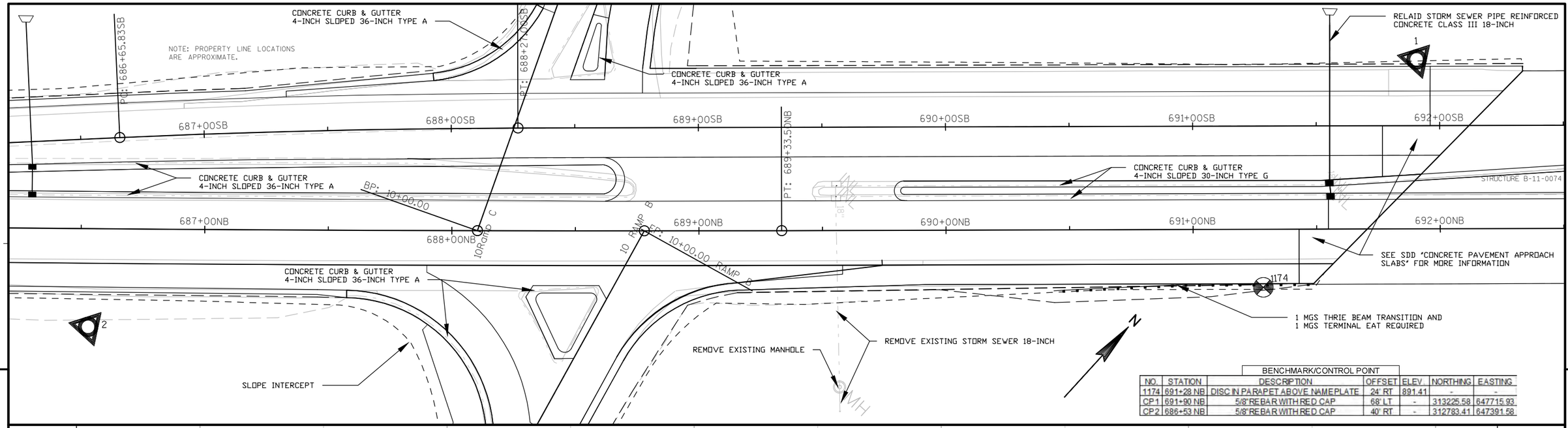
880.00

879.00

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	PLAN AND PROFILE: STH 73	SHEET	E

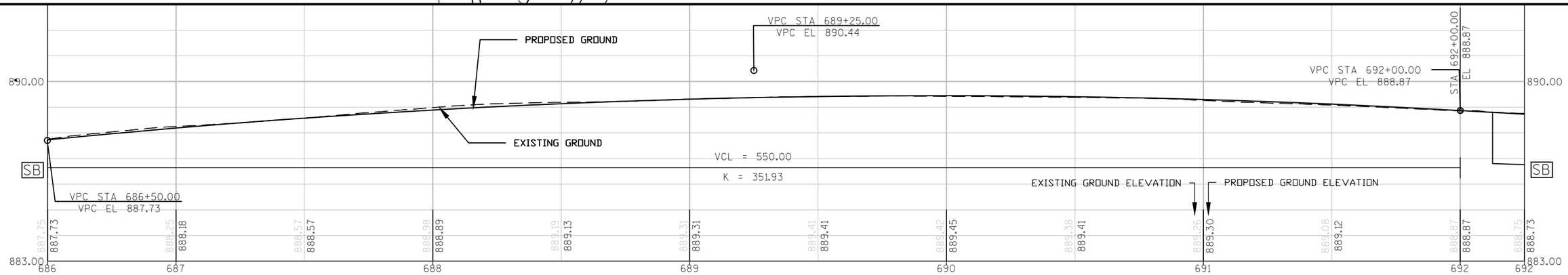
FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\13-PLAN & PROFILE\PLAN & PROFILE.DWG PLOT DATE : 5/21/2014 1:44 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

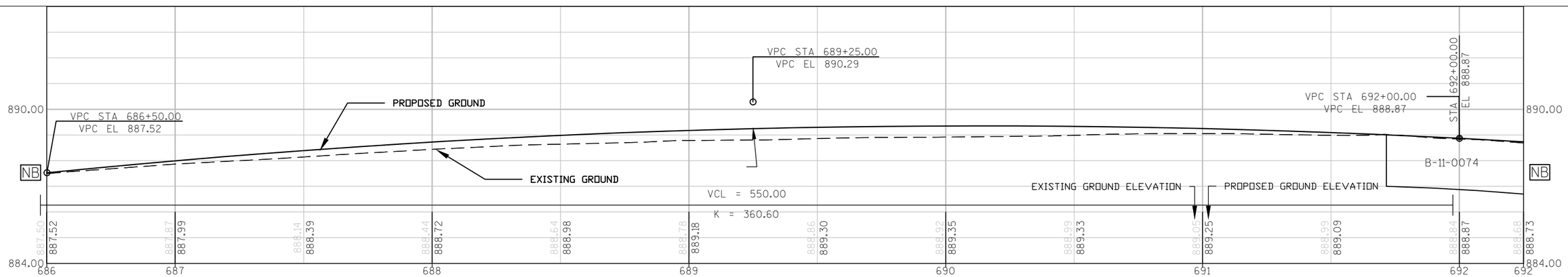
WISDOT/CADDS SHEET 44



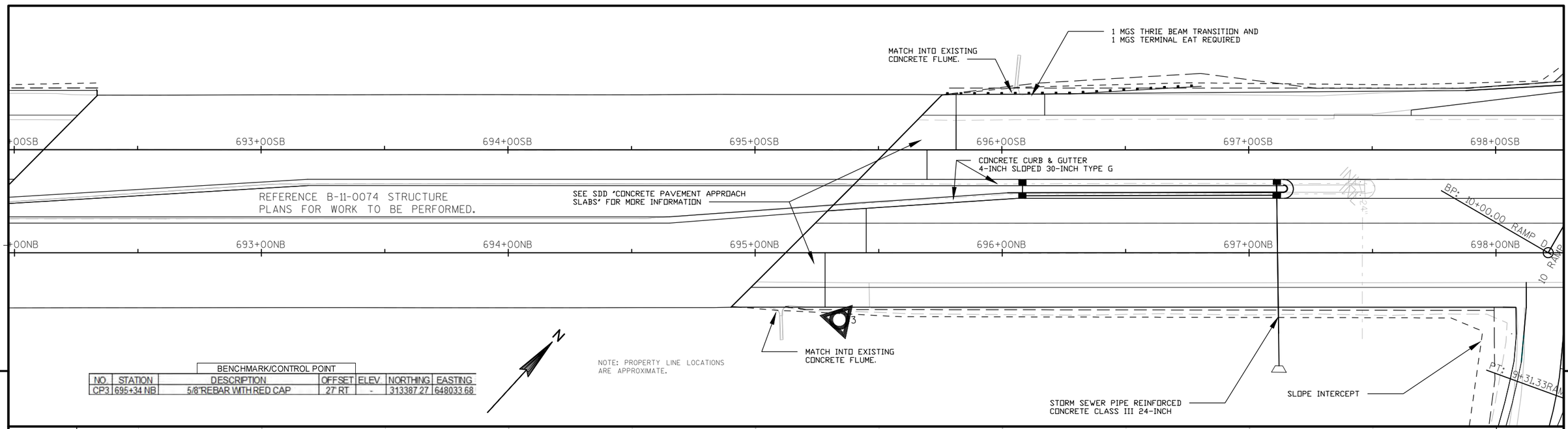
BENCHMARK/CONTROL POINT

NO.	STATION	DESCRIPTION	OFFSET	ELEV.	NORTHING	EASTING
1174	691+28 NB	DISC IN PARAPET ABOVE NAMEPLATE	24' RT	891.41	-	-
CP 1	691+90 NB	5/8"REBAR WITH RED CAP	68' LT	-	313225.58	647715.93
CP 2	686+53 NB	5/8"REBAR WITH RED CAP	40' RT	-	312783.41	647391.58





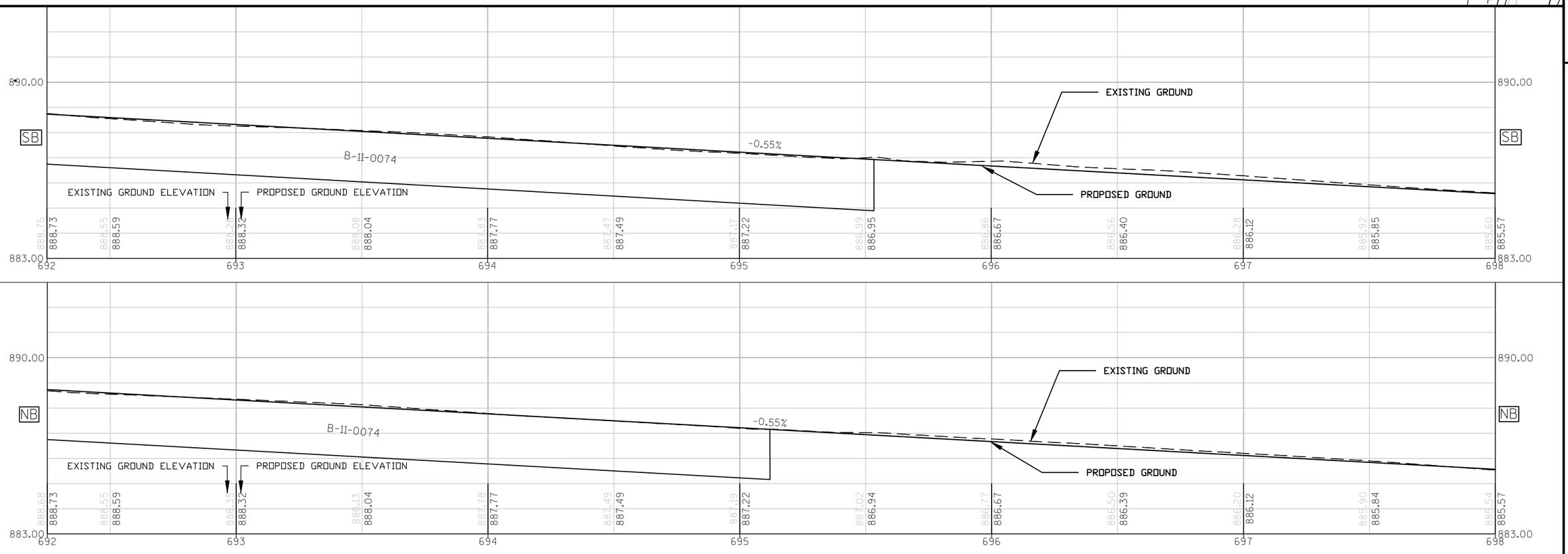
PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	PLAN AND PROFILE: STH 73	SHEET 158	E



BENCHMARK/CONTROL POINT

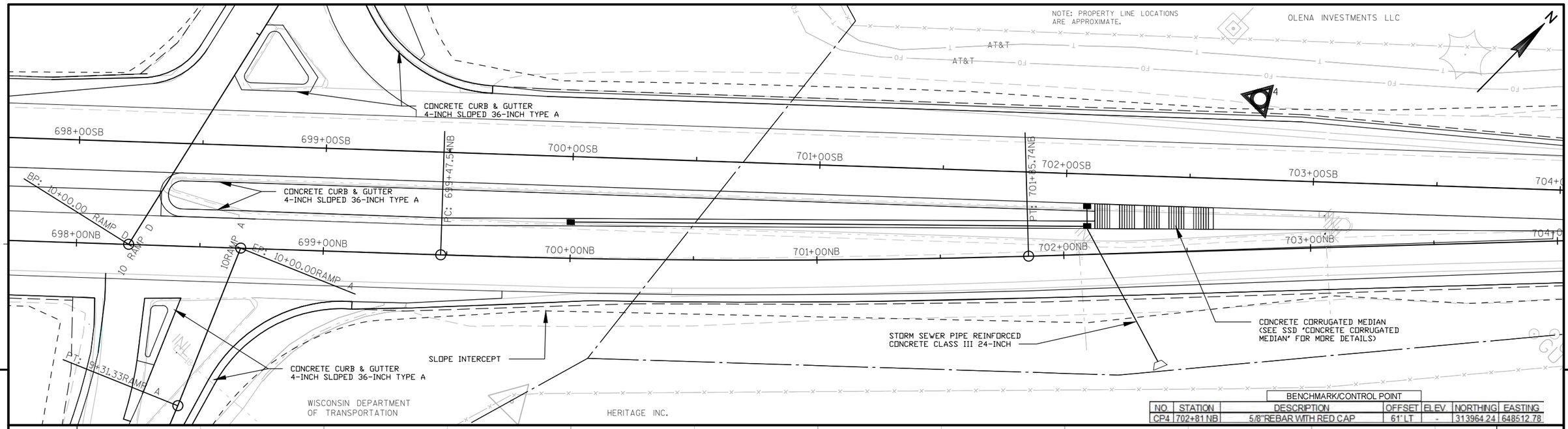
NO.	STATION	DESCRIPTION	OFFSET	ELEV	NORTHING	EASTING
CP3	695+34 NB	5/8"REBAR WITH RED CAP	27 RT	-	313387.27	648033.68

5



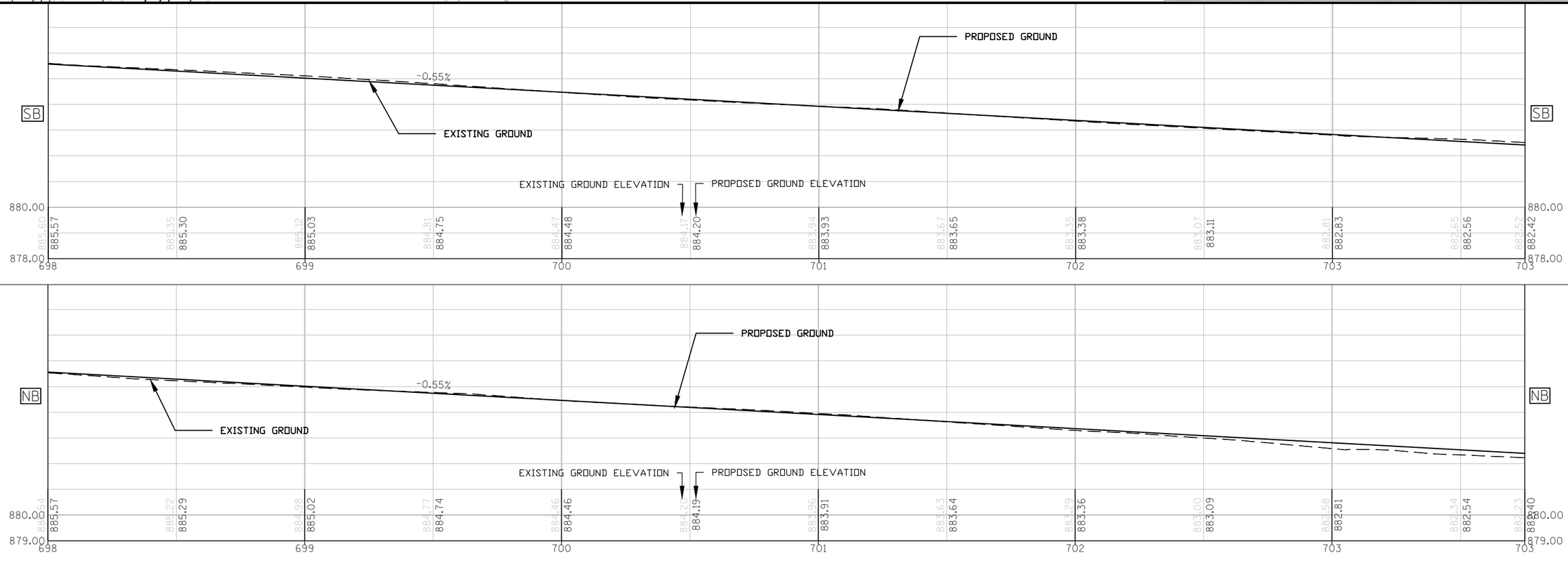
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PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	PLAN AND PROFILE: STH 73	SHEET 159	E

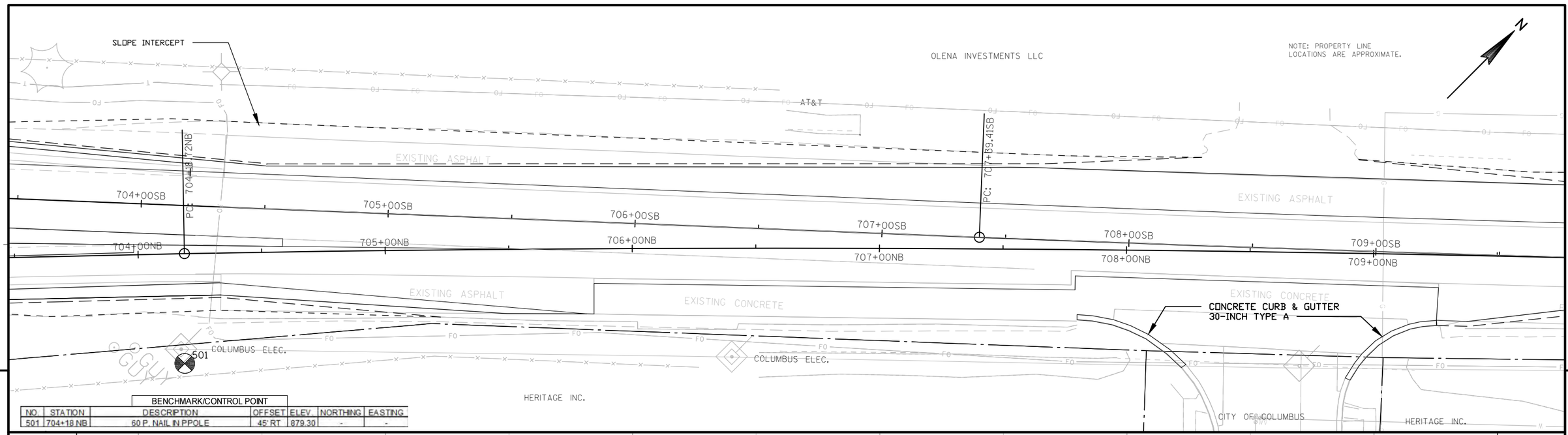


BENCHMARK/CONTROL POINT

NO.	STATION	DESCRIPTION	OFFSET	ELEV.	NORTHING	EASTING
CP4	702+81 NB	5/8"REBAR WITH RED CAP	61' LT	-	313964.24	648512.78

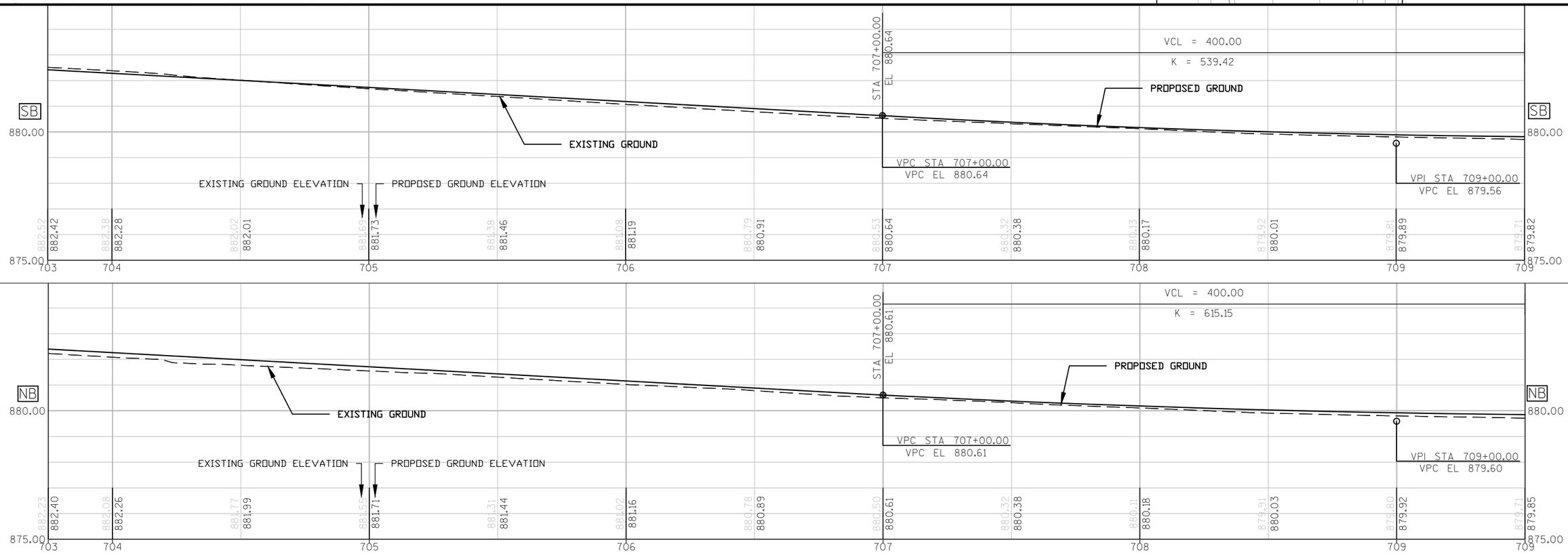


PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	PLAN AND PROFILE: STH 73	SHEET 160	E



BENCHMARK/CONTROL POINT

NO.	STATION	DESCRIPTION	OFFSET	ELEV.	NORTHING	EASTING
501	704+18 NB	60 P. NAIL IN PPOLE	45' RT	879.30	-	-



PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	PLAN AND PROFILE: STH 73	SHEET 161 E

REMOVE EXISTING CULVERT
PIPE CORRUGATED STEEL 24-INCH

72 LF - CULVERT PIPE REINFORCED CONCRETE CLASS III REQ'D
2 - APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH REQ'D

NOTE: PROPERTY LINE
LOCATIONS ARE APPROXIMATE.

OLENA INVESTMENTS LLC

BENCHMARK/CONTROL POINT

NO.	STATION	DESCRIPTION	OFFSET	ELEV.	NORTHING	EASTING
502	710+96 NB	R.R. SPK. IN PPOLE	49' RT	877.49	-	-

WE ENERGIES
AT&T
AT&T
AT&T
PRC: 710+17.63NB
PT: 712+77.02NB
EXISTING ASPHALT
CONCRETE PAVEMENT
HMA PAVEMENT
710+00SB
710+00NB
711+00SB
711+00NB
712+00SB
712+00NB
713+00NB
714+00NB
715+00NB
EXISTING ASPHALT
502
COLUMBUS ELEC.
SLOPE INTERCEPT
END CONSTRUCTION
STA 712+82
COLUMBUS WATER
HERITAGE INC.

5

5

SB

VCL = 400.00
K = 539.42
STA 711+00.00
EL 879.88
PROPOSED GROUND
STA 712+82.00
EL 880.44
0.30%
EXISTING GROUND
STA 709+75
72 LF 24" RCP
2 - APRON ENDWALLS
LT & RT
VPT STA 711+00.00
VPT EL 879.81
EXISTING GROUND ELEVATION
PROPOSED GROUND ELEVATION

709	710	711	712	713	714	715
879.71	879.66	879.64	879.72	879.81	879.90	880.00
879.82	879.79	879.81	879.88	880.03	880.18	880.33
					880.09	880.33
					880.50	880.74
					881.00	881.01
					881.21	881.22
					881.51	881.51

880.00
875.00

NB

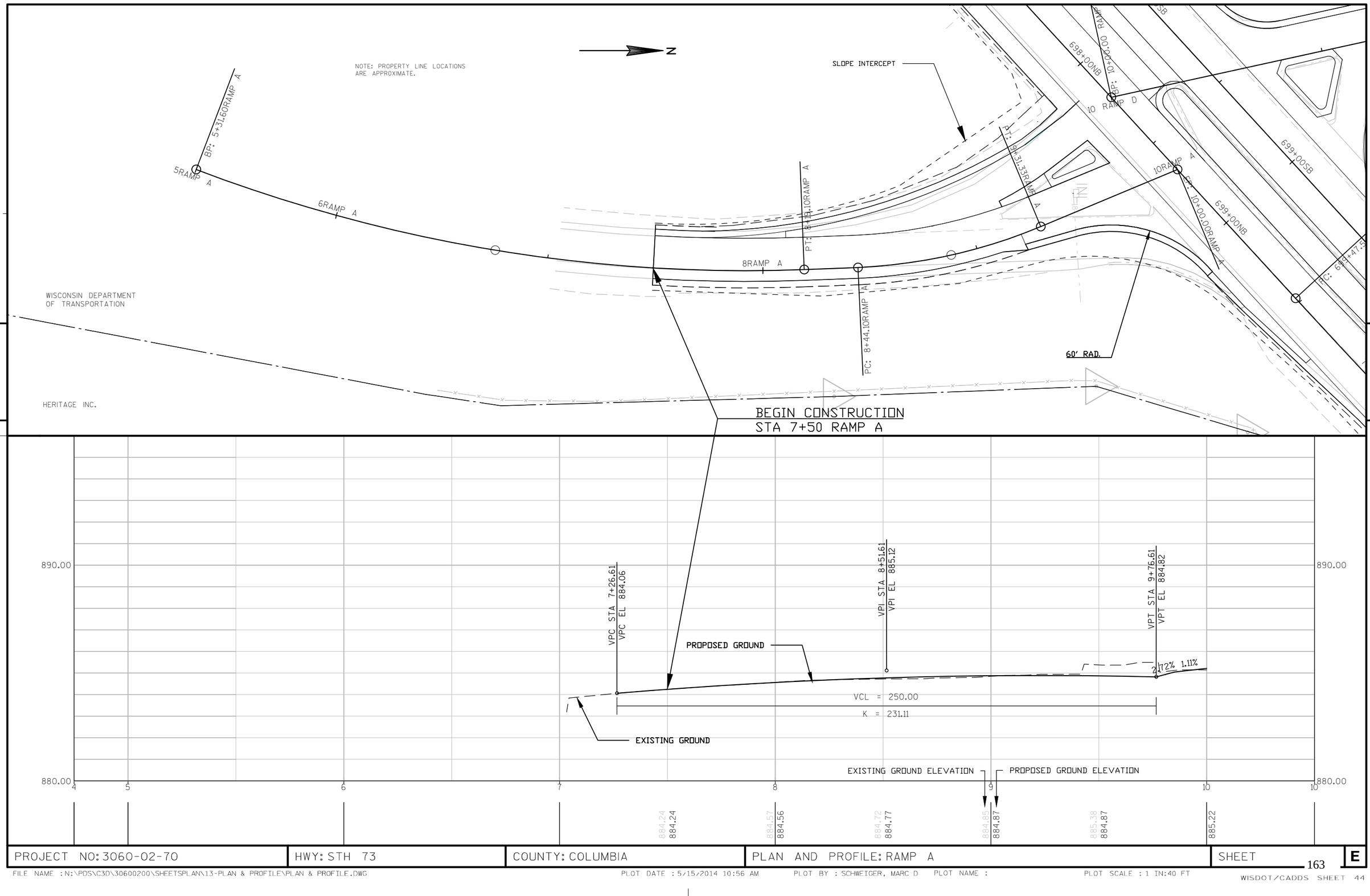
VCL = 400.00
K = 615.15
STA 711+00.00
EL 879.88
PROPOSED GROUND
STA 712+82.00
EL 880.44
0.30%
EXISTING GROUND
STA 709+75
72 LF 24" RCP
2 - APRON ENDWALLS
LT & RT
VPT STA 711+00.00
VPT EL 879.88
EXISTING GROUND ELEVATION
PROPOSED GROUND ELEVATION

709	710	711	712	713	714	715
879.71	879.66	879.64	879.72	879.80	879.90	880.00
879.85	879.82	879.83	879.88	880.03	880.18	880.33
					880.08	880.33
					880.50	880.55
					880.73	880.87
					881.00	881.14
					881.21	881.35
					881.51	881.52

880.00
875.00

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	PLAN AND PROFILE: STH 73	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\13-PLAN & PROFILE\PLAN & PROFILE.DWG
PLOT DATE : 5/21/2014 1:46 PM
PLOT BY : SCHWEIGER, MARC D
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44



PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	PLAN AND PROFILE: RAMP A	SHEET 163 E

ROGER & TAMARA WEILAND

WISCONSIN DEPARTMENT
OF TRANSPORTATION

NOTE: PROPERTY LINE LOCATIONS
ARE APPROXIMATE.

N

60' RAD.

SLOPE INTERCEPT

BP: 6+78.57 RAMP B

6 RAMP B

8 RAMP B

10 RAMP B

BP: 10+00.00 RAMP B

688+00SB

688+00NB

10Ramp C

BP: 688+27.08SB

PT: 688+27.08SB

689+00SB

689+00NB

PT: 689+33.50NB

690+00SB

BEGIN CONSTRUCTION
STA 8+70 RAMP B

VPI STA 8+99.95
VPI EL 887.55

STA 9+74.95
EL 888.74

STA 10+00.00
EL 889.10

STA 8+24.95
EL 885.61

PROPOSED GROUND

1.44%

EXISTING GROUND

VCL = 150.00

K = 150.58

EXISTING GROUND ELEVATION

PROPOSED GROUND ELEVATION

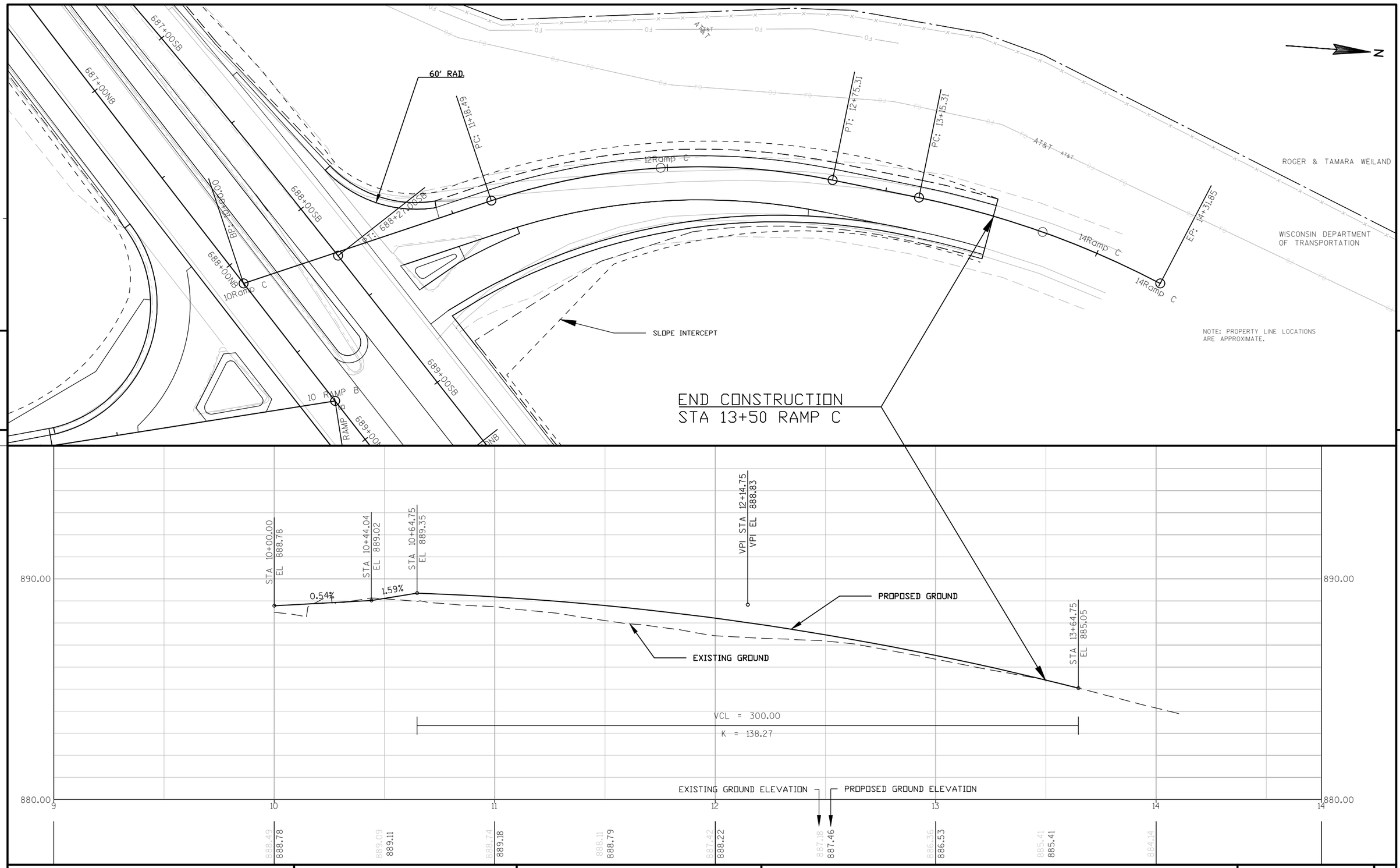
890.00

880.00

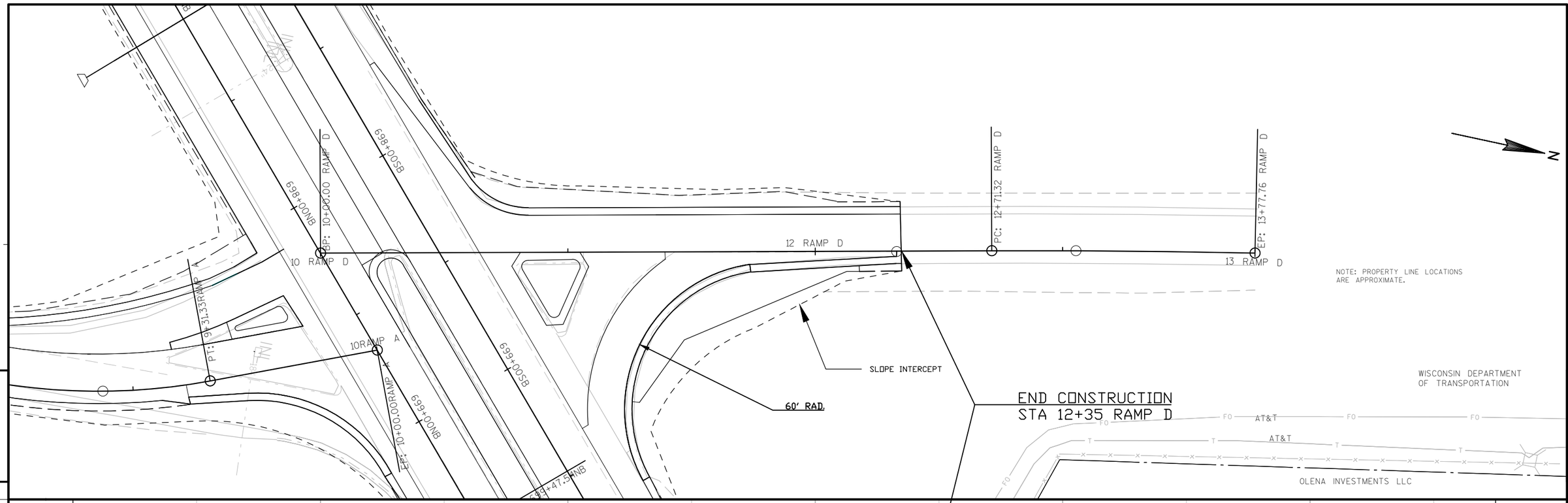
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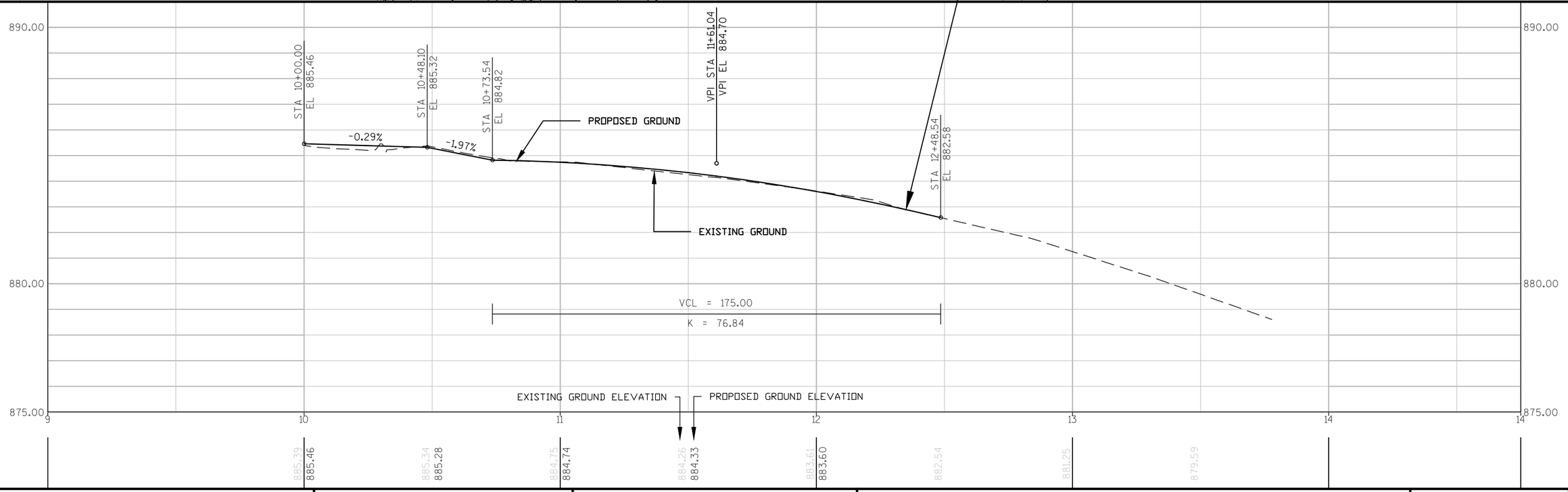
880.95 882.88 884.77 886.32 886.24 887.25 887.36 888.07 888.32 889.10

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	PLAN AND PROFILE: RAMP B	SHEET 164 E



PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	PLAN AND PROFILE: RAMP C	SHEET 165	E





PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	PLAN AND PROFILE: RAMP D	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\13-PLAN & PROFILE\PLAN & PROFILE.DWG PLOT DATE : 5/15/2014 10:57 AM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:40 FT

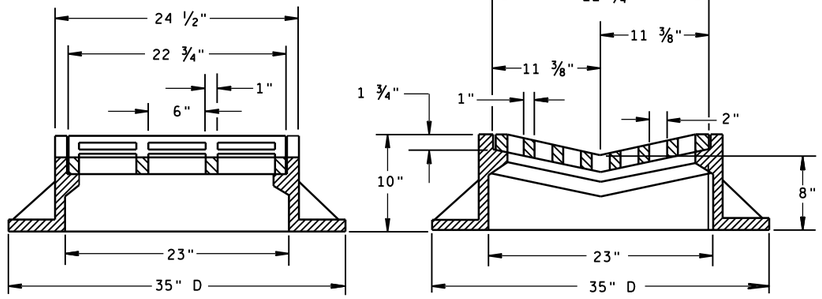
Standard Detail Drawing List

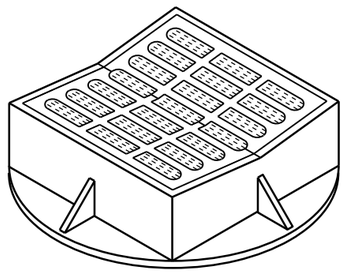
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08C07-01	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08D01-17	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F07-05	STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE DRAINS
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
09A01-13B	AT-GRADE SIDE ROAD INTERSECTION, TYPE "A1" & "A2"
11B01-05	CONCRETE CORRUGATED MEDIAN
11B02-02	CONCRETE MEDIAN NOSE
13A03-05	CONCRETE PAVEMENT SHOULDERS
13B02-06	CONCRETE PAVEMENT APPROACH SLAB
13C01-16	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C11-11A	RURAL DOWELED CONCRETE PAVEMENT
13C11-11B	RURAL DOWELED CONCRETE PAVEMENT
13C13-08	URBAN DOWELED CONCRETE PAVEMENT
13C16-02A	DETAIL FOR RIGHT TURN LANE/TEE INTERSECTION BYPASS LANE ON A CONRETE ROADWAY
13C16-02B	DETAIL FOR RIGHT TURN LANE/TEE INTERSECTION BYPASS LANE ON A CONRETE ROADWAY
13C18-02A	CONCRETE PAVEMENT JOINTING
13C18-02B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-02C	CONCRETE PAVEMENT JOINT TIES
13C18-02D	CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES
14B07-13A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B08-01A	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-01B	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-01C	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-01D	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-01E	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B26-02A	STEEL THRIE BEAM BULLNOSE TERMINAL
14B26-02B	STEEL THRIE BEAM BULLNOSE TERMINAL
14B26-02C	STEEL THRIE BEAM BULLNOSE TERMINAL
14B26-02D	STEEL THRIE BEAM BULLNOSE TERMINAL
14B26-02E	STEEL THRIE BEAM BULLNOSE TERMINAL
14B42-02A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-02B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-02C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B43-03A	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B43-03B	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B43-03C	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B44-01A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-01B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-01C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-03A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03E	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03F	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03I	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03J	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C07-12B	PAVEMENT MARKING WORDS
15C07-12C	PAVEMENT MARKING ARROWS
15C08-16A	PAVEMENT MARKING (MAINLINE)

6

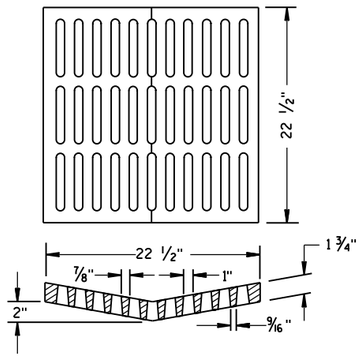
Standard Detail Drawing List

15C08-16B	PAVEMENT MARKING (INTERSECTIONS)
15C08-16E	PAVEMENT MARKING (LEFT TURN LANE)
15C08-16F	PAVEMENT MARKING (ISLANDS)
15C11-05	FLEXIBLE TUBULAR MARKER POST, ANCHOR & BASES
15C18-03	MEDIAN ISLAND MARKING
15C19-02A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-02C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C21-05	SIGNING AND MARKING FOR TWO LANE TO FOUR LANE DIVIDED TRANSITIONS
15C33-01	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D16-02	TRAFFIC CONTROL, EXIT RAMP CLOSURE
15D27-02	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH



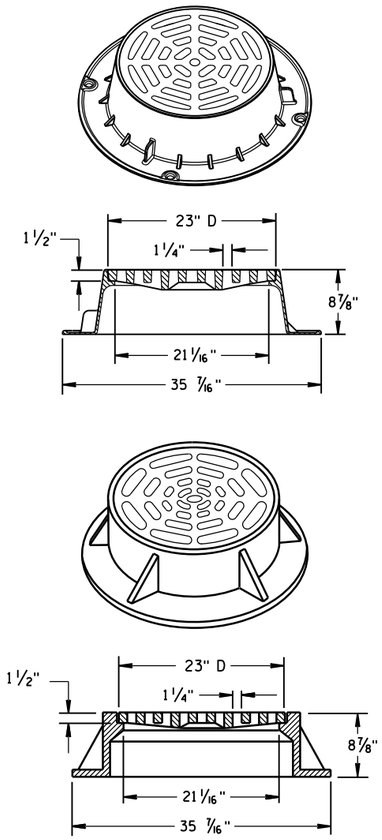


TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.
NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

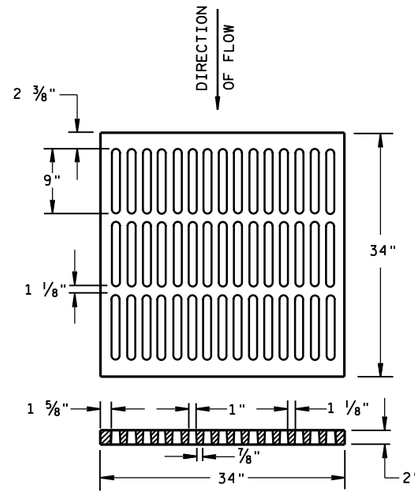
NOTE: EITHER CASTING IS ACCEPTABLE

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.

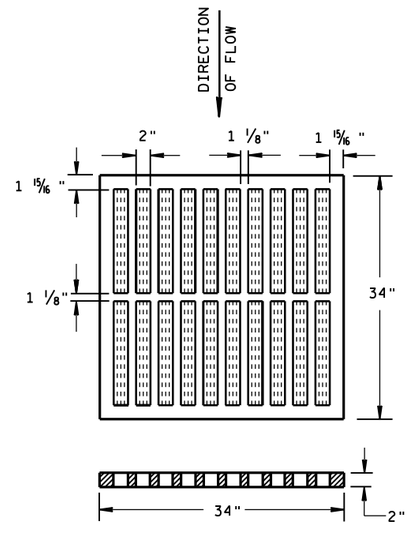
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



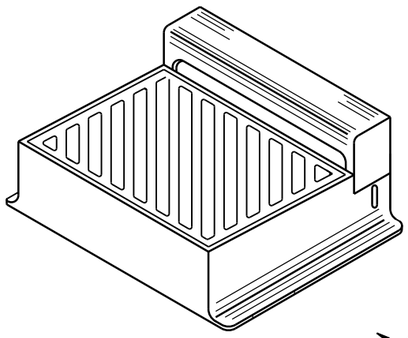
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

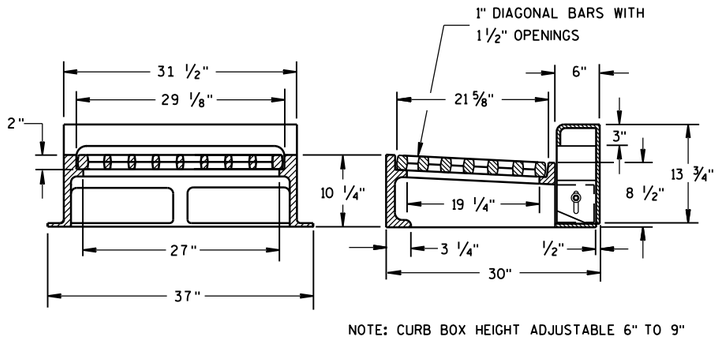


TYPE "MS"

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"

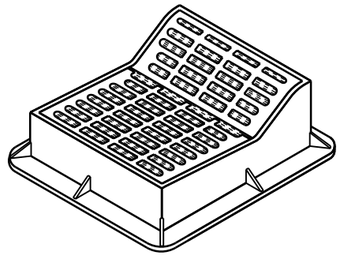
INLET COVERS
TYPE B, B-A, C,
MS, MS-A, & WM

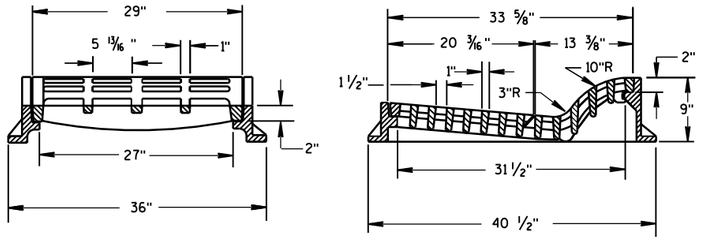
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

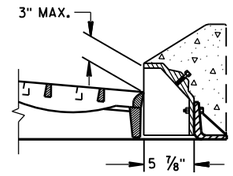
S.D.D. 8 A 5-19b





TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

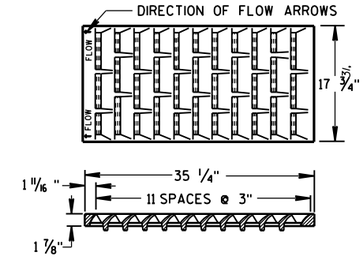
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

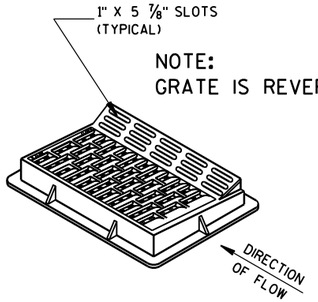
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

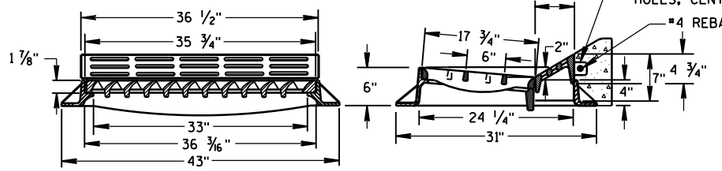
GENERAL NOTES

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.



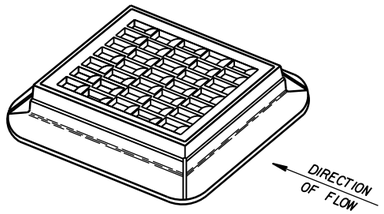


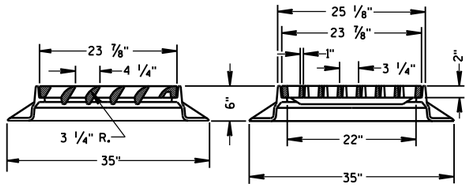


TYPE "HM"

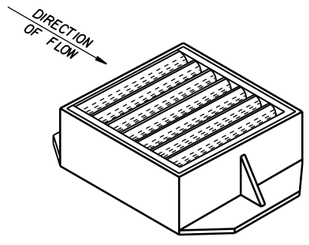
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

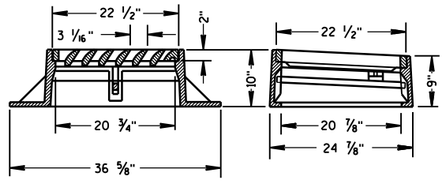
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



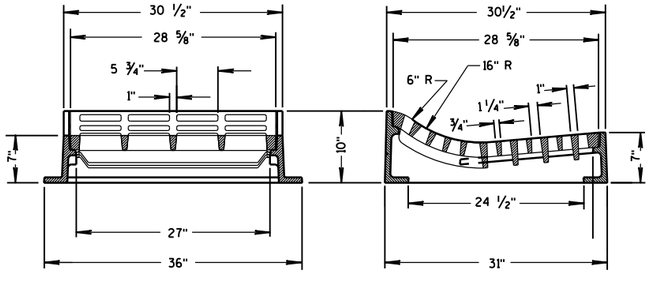


TYPE "S"



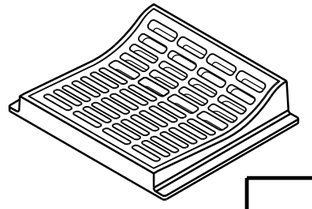


TYPE "V"



TYPE "T"

USE WITH TYPES R & T CONCRETE CURB & GUTTER, 36 INCH.



INLET COVERS
TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

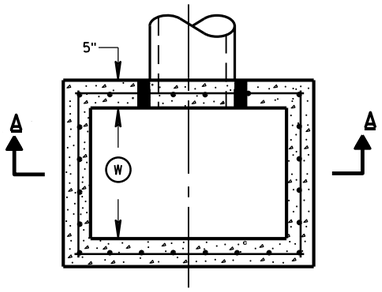
FHWA

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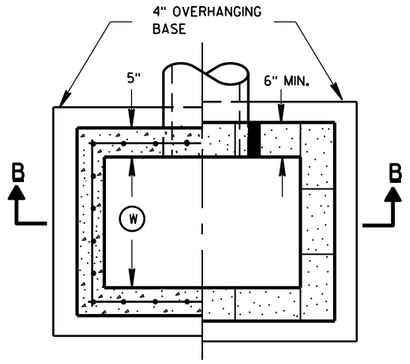
S.D.D. 8 A 5-19c

6

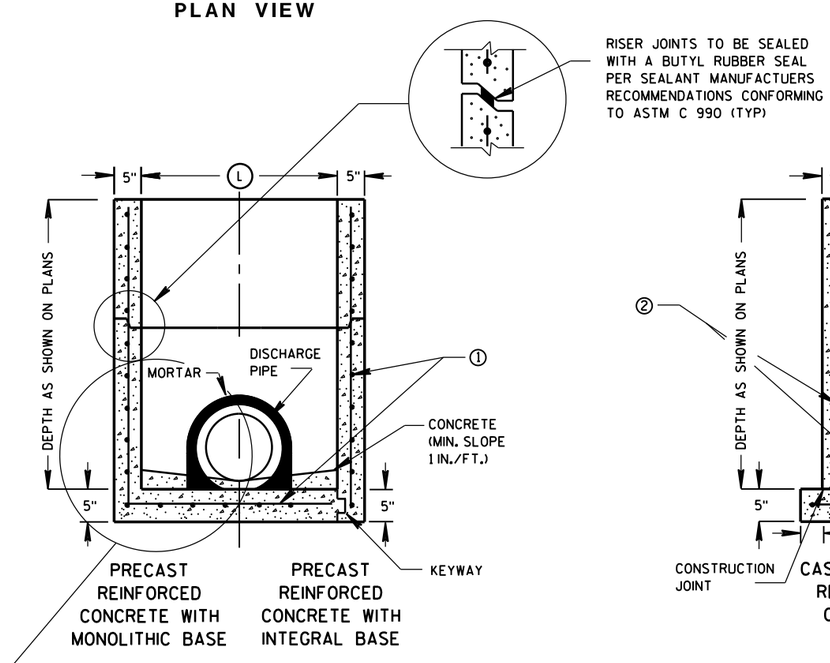
S.D.D. 8 A 5-19c



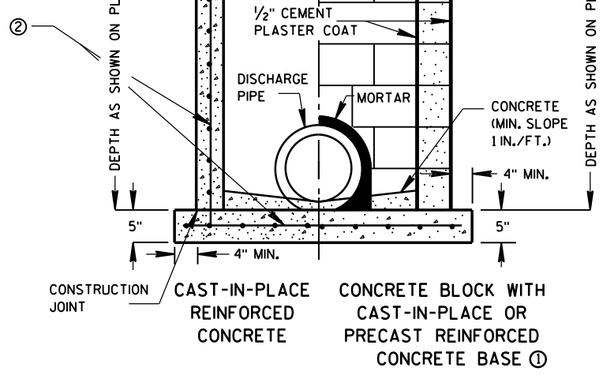
PLAN VIEW



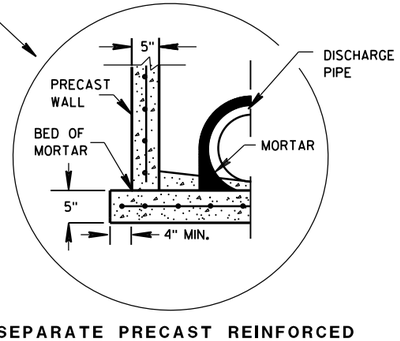
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

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.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

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 ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

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.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

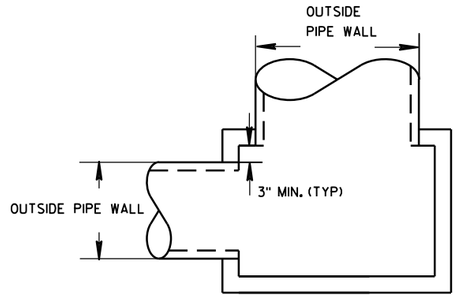
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH (W) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



DETAIL "A"

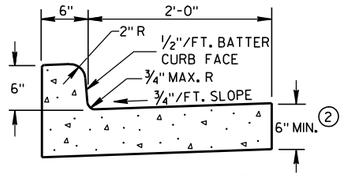
INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

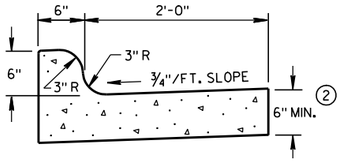
APPROVED
6/5/2012
DATE
FHWA

/S/ Jerry H. Zogg
ROADWAY STANDARDS DE
ENGINEER

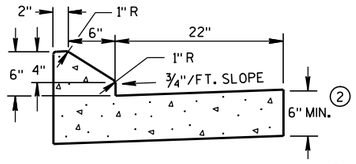
6
S.D.D. 8 C 7-1



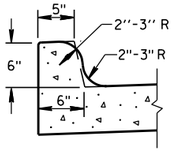
TYPES A & D (1)



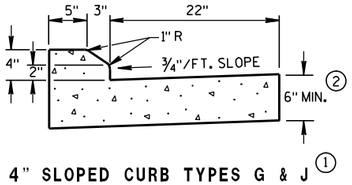
TYPES K & L (1)



6" SLOPED CURB TYPES G & J (1)

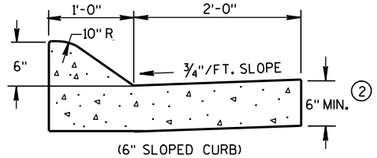


OPTIONAL CURB SHAPE FOR TYPES K & L (1)

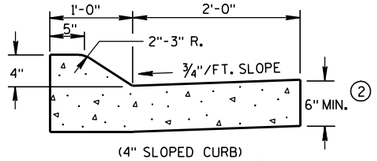


4" SLOPED CURB TYPES G & J (1)

CONCRETE CURB & GUTTER 30"

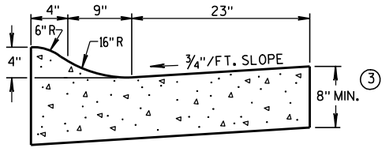


(6" SLOPED CURB)



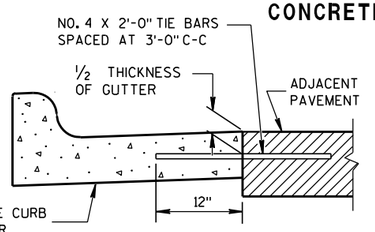
(4" SLOPED CURB)

TYPES A & D (1)

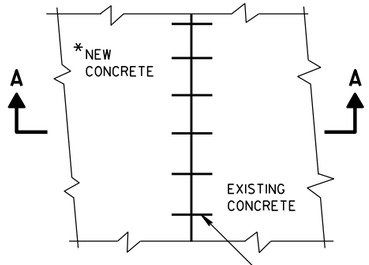


4" SLOPED CURB TYPES R & T (1) (4)

CONCRETE CURB & GUTTER 36"

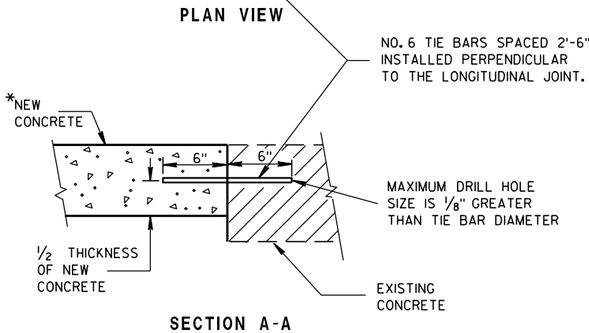


TYPICAL TIE BAR LOCATION (1)



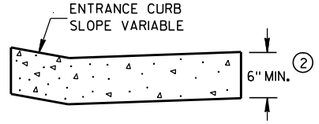
*NEW CURB & GUTTER, SURFACE DRAINS, CONCRETE PAVEMENT OR OTHER NEW CONCRETE.

PLAN VIEW

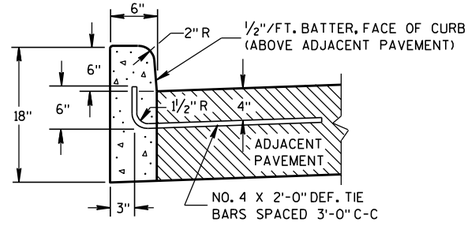


SECTION A-A

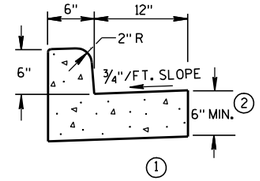
TIE BARS DRILLED INTO EXISTING PAVEMENT



DRIVEWAY ENTRANCE CURB
(WHEN DIRECTED BY THE ENGINEER)

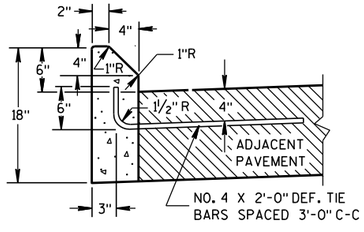


(1)
TYPES A & D



(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.

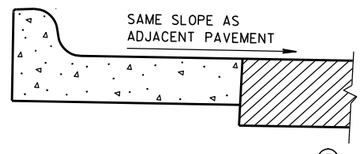
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K AND R.

(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.

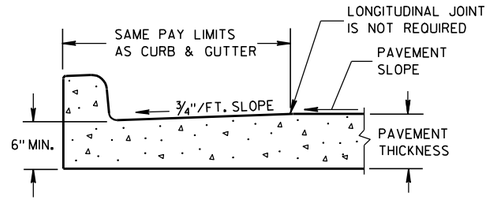
(3) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(4) THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

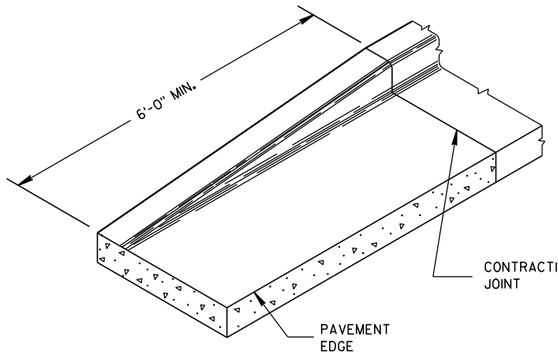
(5) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.



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. [illegible]
ROADWAY STANDARDS ENGINEER

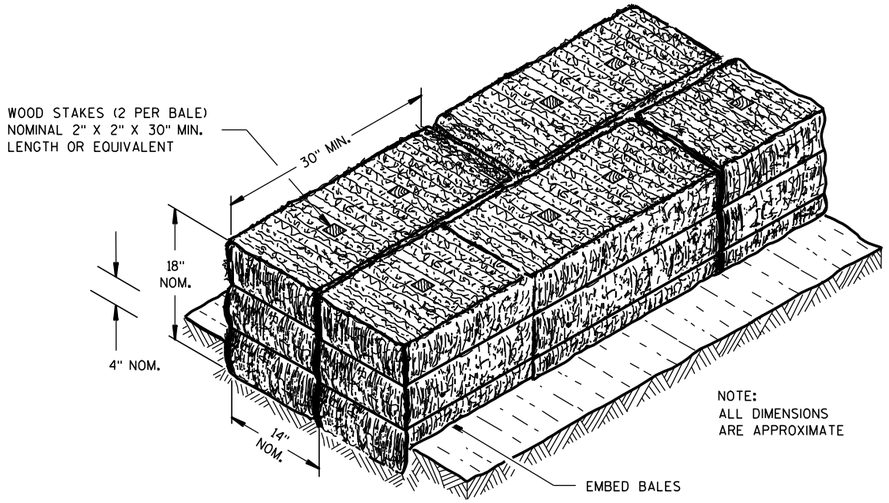
FHWA

6

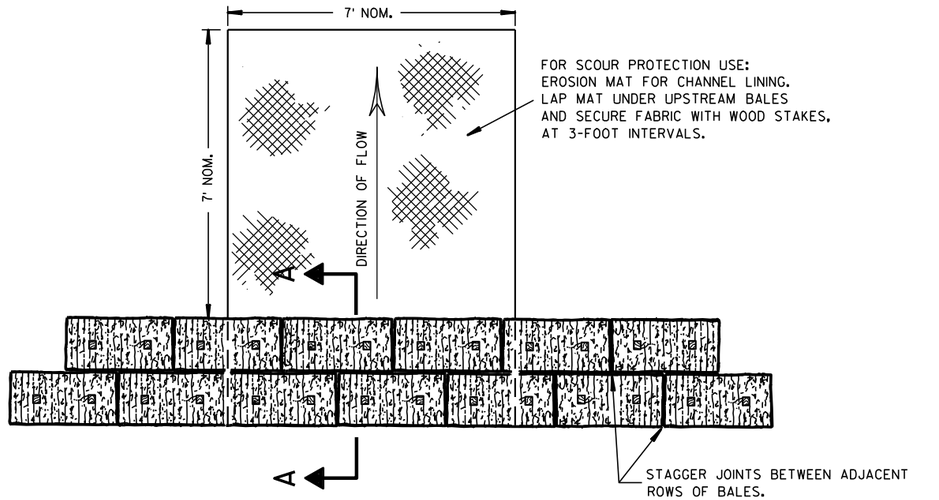
S.D.D. 8 D 1-17

6

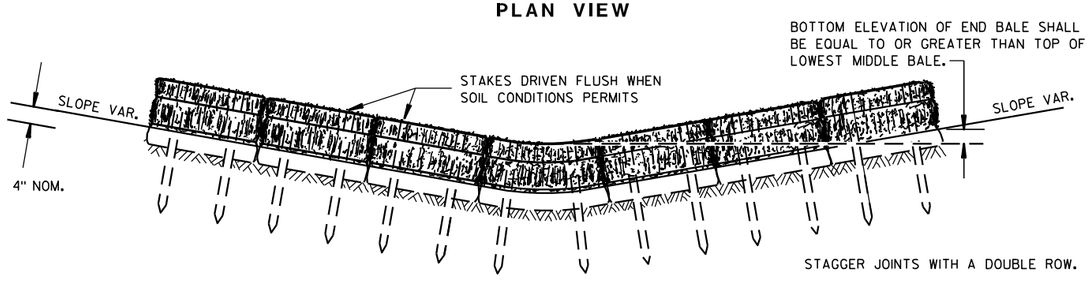
S.D.D. 8 D 1-17



SECTION A-A



PLAN VIEW



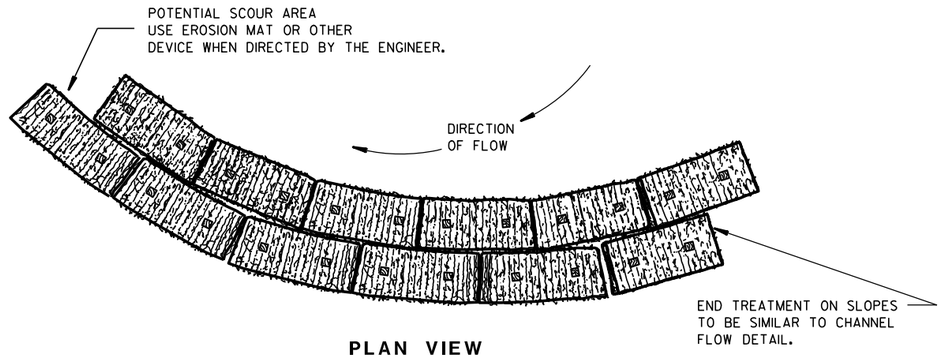
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

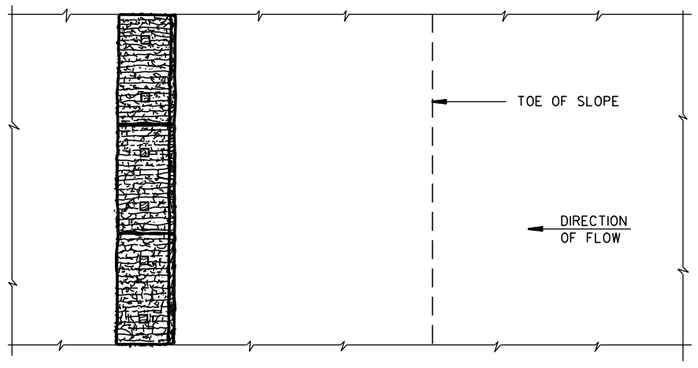
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(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.

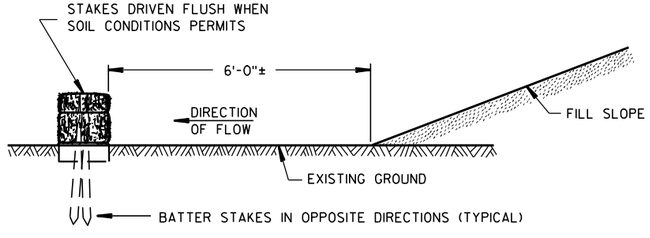


PLAN VIEW

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

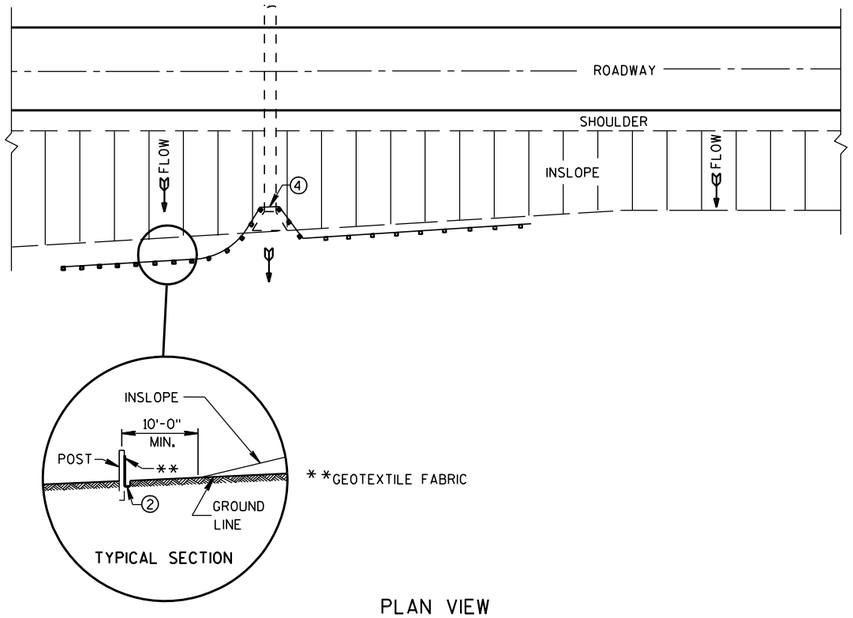
APPROVED
6/04/02 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 E 8-3

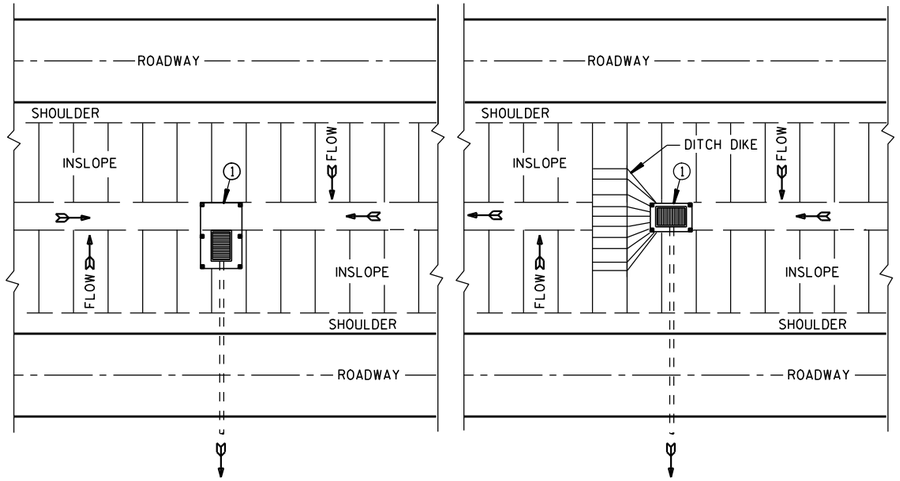
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S.D.D. 8 E 8-3



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.

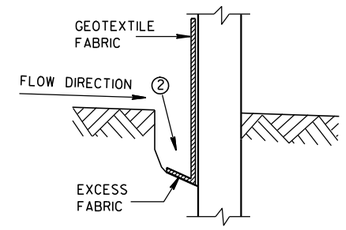
① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

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.

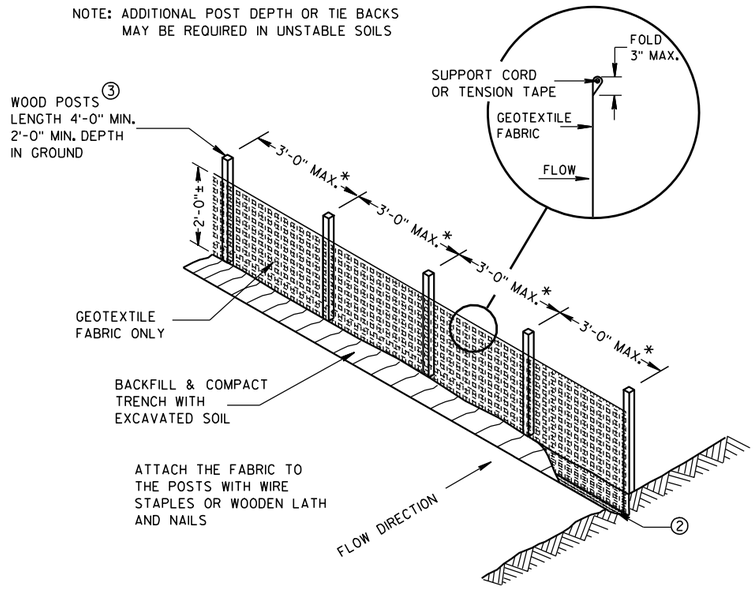
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.

④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.

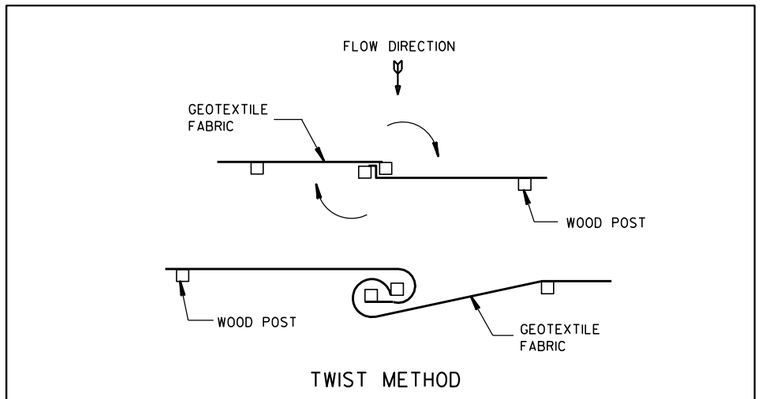
⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



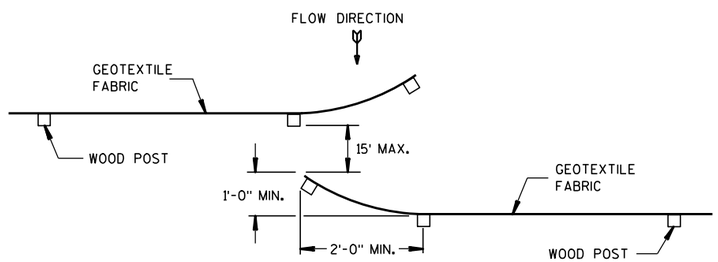
TRENCH DETAIL



SILT FENCE

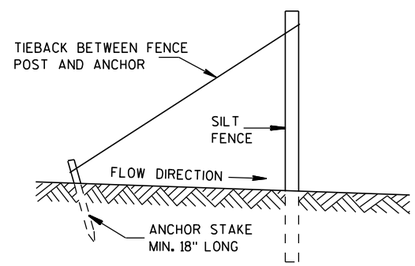


TWIST METHOD



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

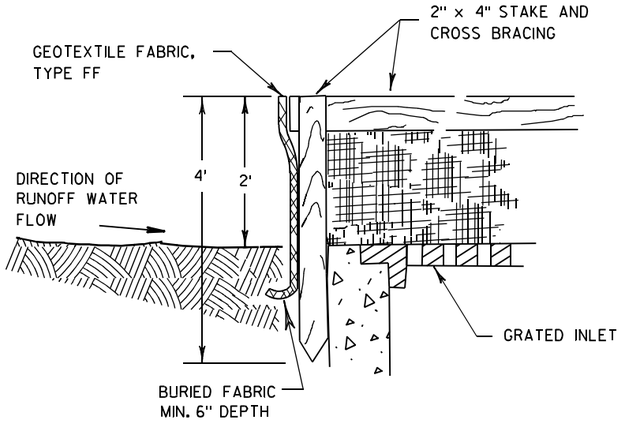
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

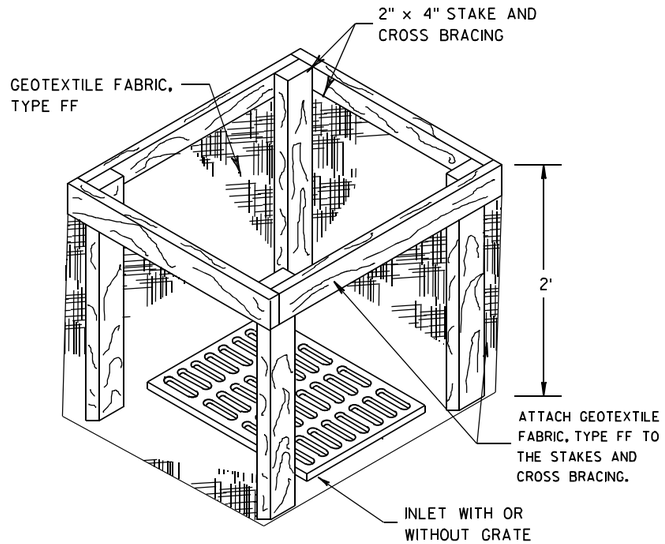
6

S.D.D. 8 E 9-6

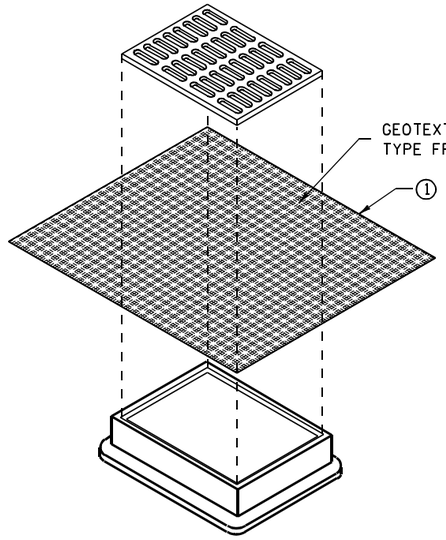
6

S.D.D. 8 E 9-6



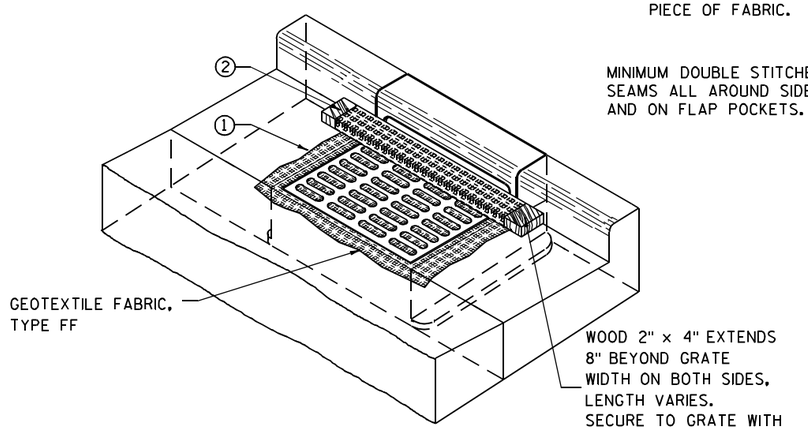


INLET PROTECTION, TYPE A

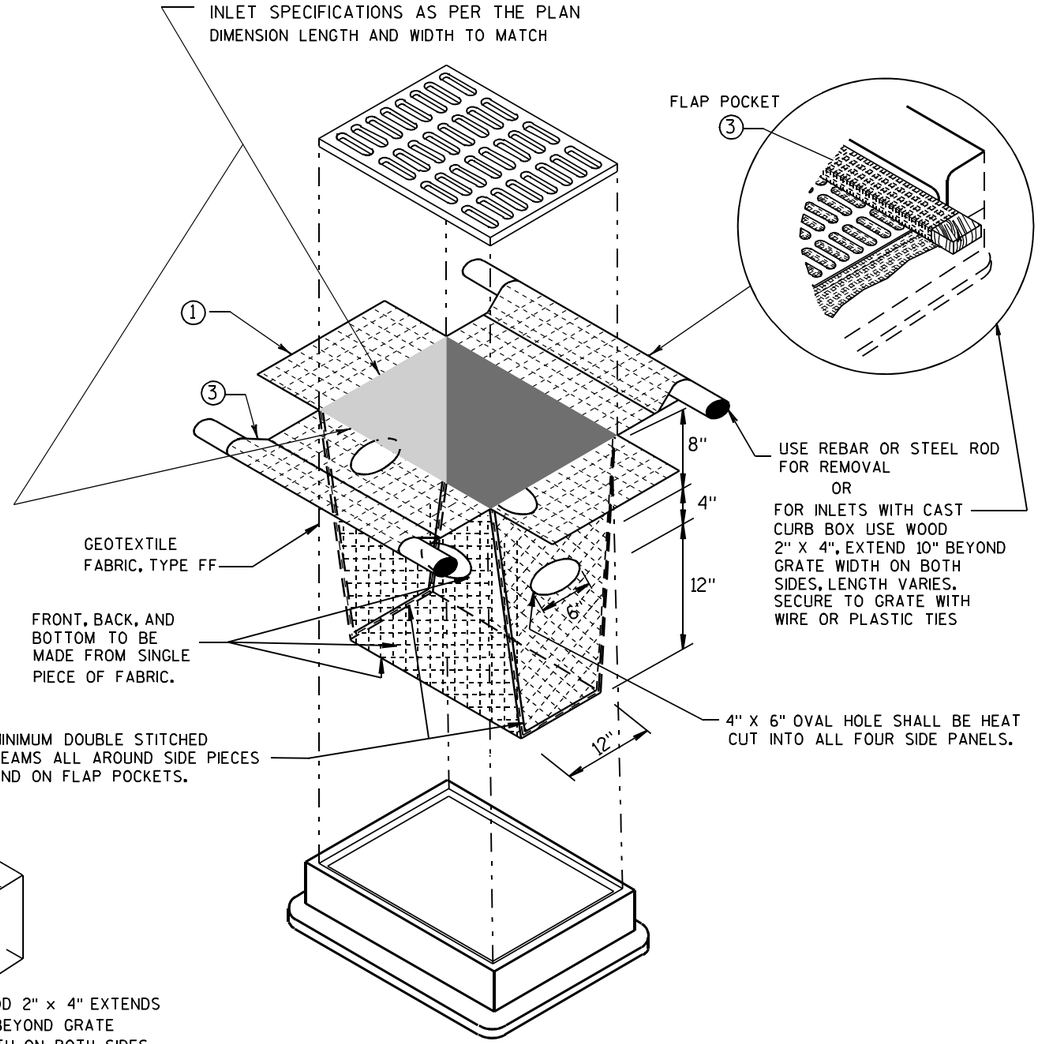


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

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
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 10-2

METAL APRON ENDWALLS

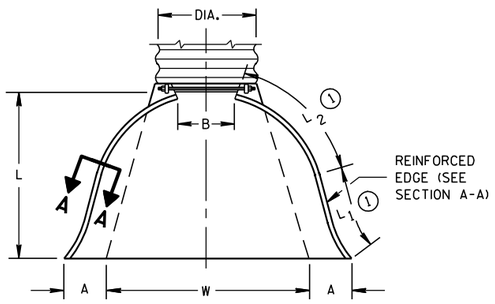
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	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

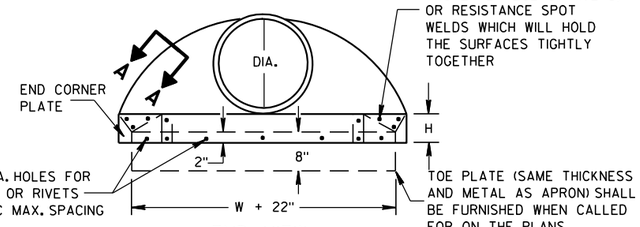
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	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

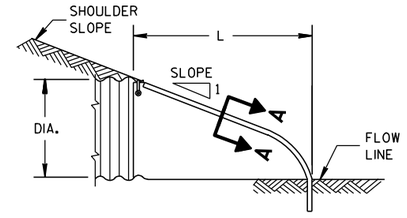
*MINIMUM
**MAXIMUM



PLAN VIEW

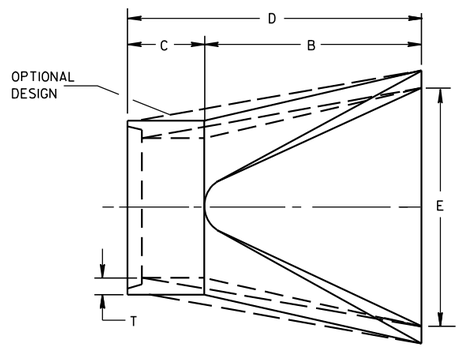


END VIEW

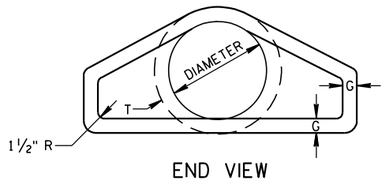


SIDE ELEVATION

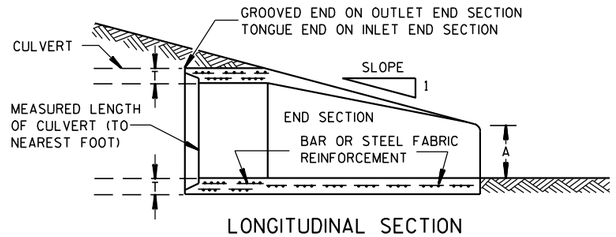
METAL ENDWALLS



PLAN

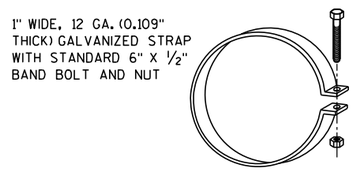


END VIEW



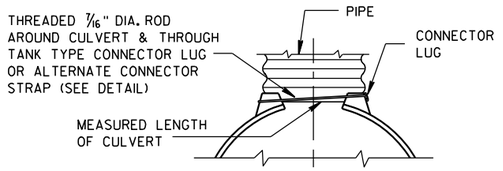
LONGITUDINAL SECTION

CONCRETE ENDWALLS

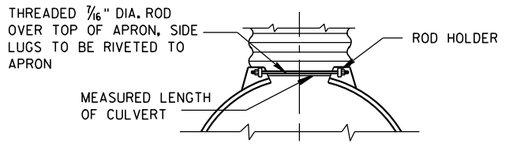


ALTERNATE FOR TYPE 1 CONNECTION

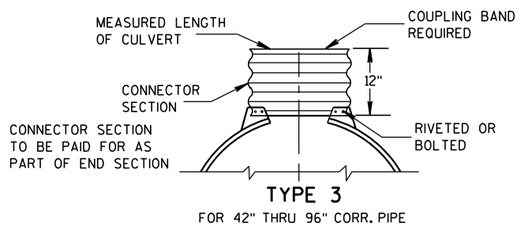
END SECTION CONNECTOR STRAP



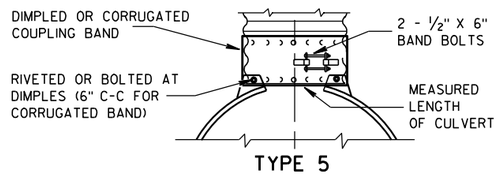
TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

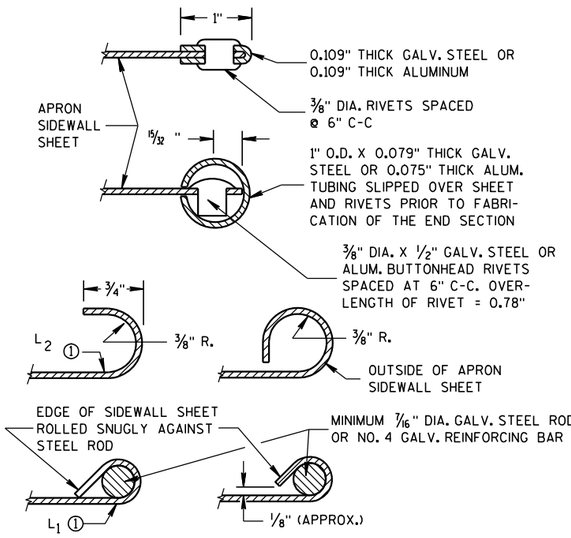
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

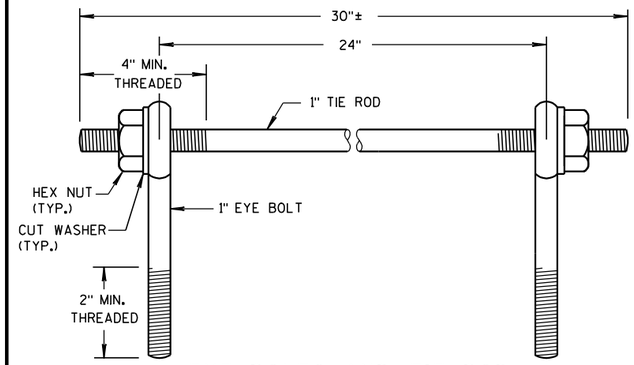
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

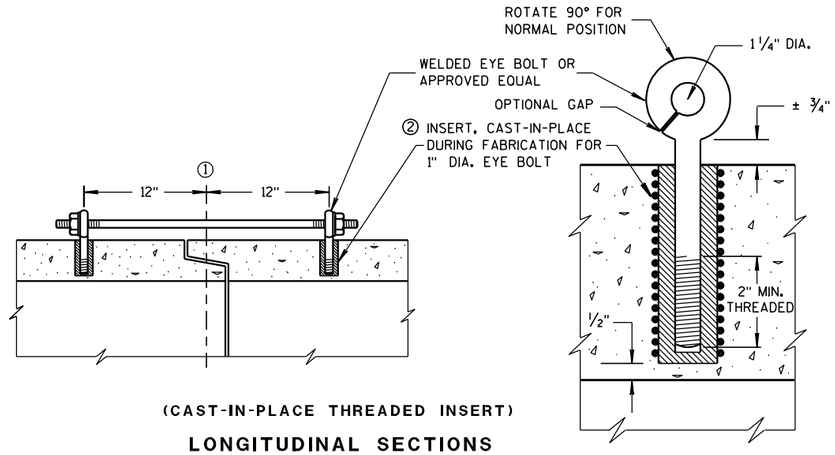
APPROVED
11/30/94 — DATE
/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

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S.D.D. 8 F 1-11



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 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 APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND 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 THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

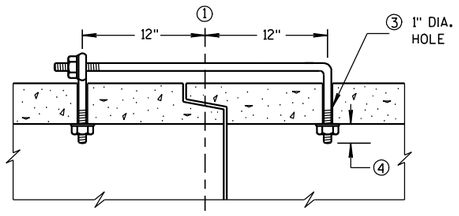
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

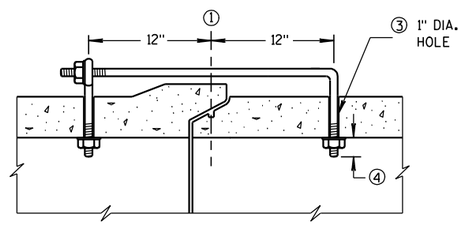
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

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.



(TONGUE & GROOVE PIPE)

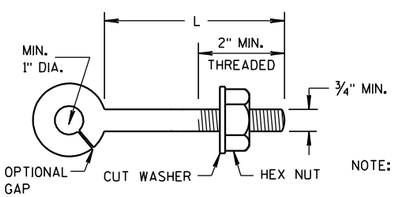


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

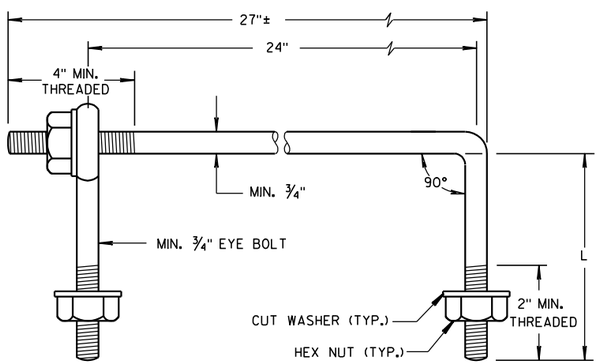
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

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

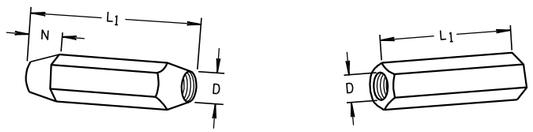
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

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 1/16

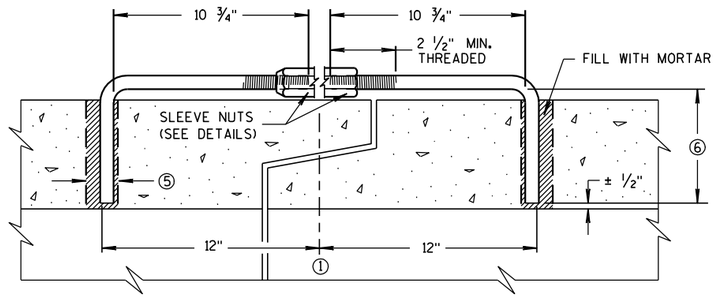
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

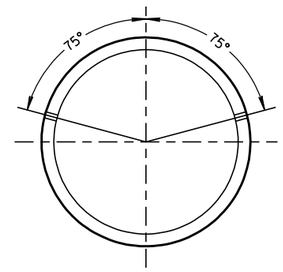
SLEEVE NUTS



LONGITUDINAL SECTION

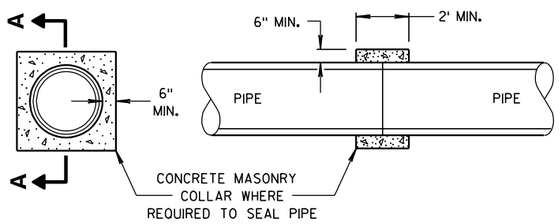
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

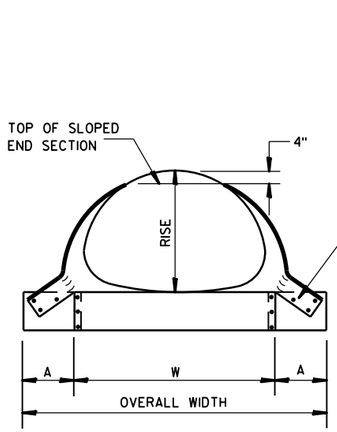
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
177
FHWA

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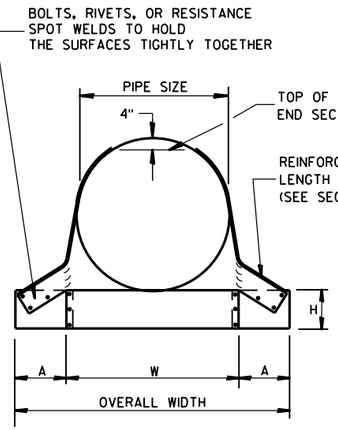
S.D.D. 8 F 4-7

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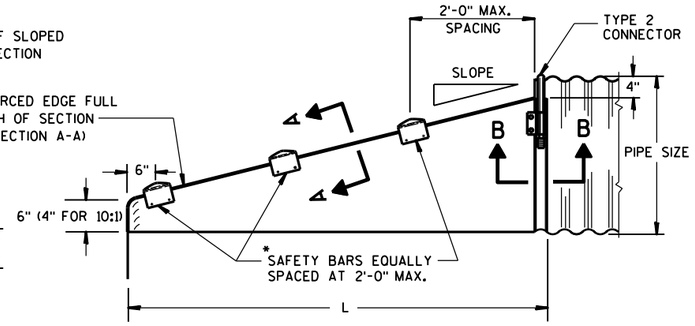
S.D.D. 8 F 4-7



FRONT VIEW



FRONT VIEW



SIDE VIEW

GENERAL NOTES

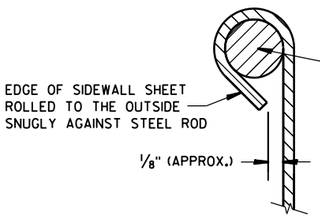
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SLOPED END SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS, SECTION 521 FOR STEEL APRON ENDWALLS.

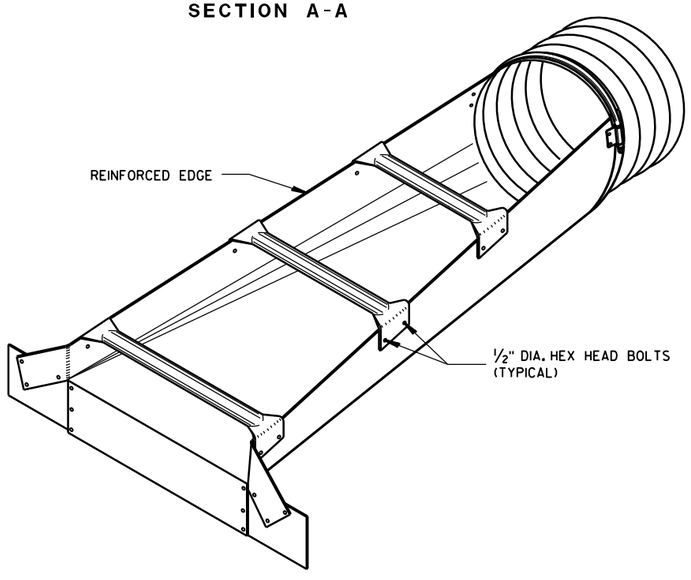
SAFETY BARS SHALL BE FABRICATED FROM GALVANIZED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A-53, GRADE B, SCHEDULE 40 OR APPROVED EQUAL.

STEEL APRON ENDWALLS FOR CULVERT PIPE
SLOPED SIDE DRAINS

PIPE DIA. (IN.)	MIN. THICK. (Inches)	DIMENSIONS (Inches)				L DIMENSIONS					
		A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	.064	8	6	21	37	4:1	20	6:1	30	10:1	70
18	.064	8	6	24	40	4:1	32	6:1	48	10:1	100
21	.064	8	6	27	43	4:1	44	6:1	66	10:1	130
24	.064	8	6	30	46	4:1	56	6:1	84	10:1	160
30	.109	12	9	36	60	4:1	80	6:1	120	10:1	220
36	.109	12	9	42	66	4:1	104	6:1	156	10:1	280
42	.109	16	12	48	80	4:1	128	6:1	192	——	——
48	.109	16	12	54	86	4:1	152	6:1	228	——	——
54	.109	16	12	60	92	4:1	176	6:1	264	——	——
60	.109	16	12	66	98	4:1	200	6:1	300	——	——



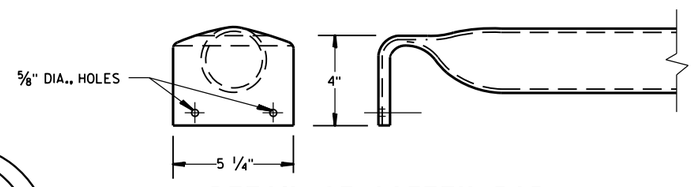
SECTION A-A



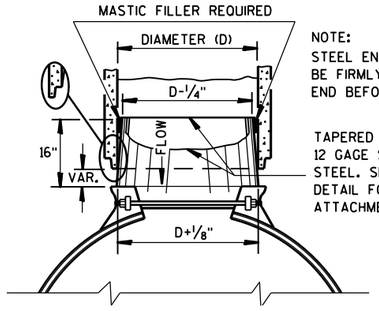
ISOMETRIC VIEW

*NOTE:
THREE SAFETY BARS ARE SHOWN. ACTUAL NUMBER OF BARS REQUIRED AT A 2'-0" C-C MAX. SPACING WILL VARY DEPENDING ON THE LENGTH OF THE END SECTION.

3" GALVANIZED PIPE. FLATTEN ENDS, THEN BEND OUTSIDE 4" TO MATCH END SECTION SIDES.



DETAIL OF SAFETY BAR

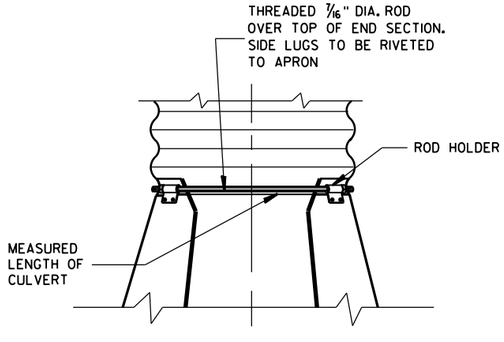


STEEL ADAPTER SLEEVE FOR CONCRETE PIPE

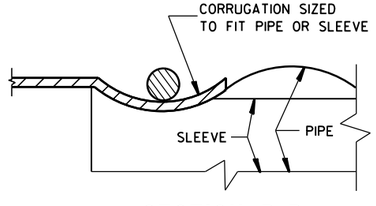
STEEL APRON ENDWALLS FOR PIPE ARCH
SLOPED SIDE DRAINS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) ①	DIMENSIONS (Inches) A	H	W	OVERALL WIDTH	L DIMENSIONS SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	17	13	.064 *	7	6	30	44	4:1	19	6:1	30	10:1 ②	70
18	21	15	.064 *	8	6	27	43	4:1	20	6:1	30	10:1	70
21	24	18	.064 *	8	6	30	46	4:1	32	6:1	48	10:1	100
24	28	20	.064 *	8	6	34	50	4:1	40	6:1	60	10:1	120
30	35	24	.079 *	12	9	41	65	4:1	56	6:1	84	10:1	160
36	42	29	.109 *	12	9	48	72	4:1	76	6:1	114	10:1	210
42	49	33	.109	16	12	55	87	4:1	92	6:1	138	——	——
48	57	38	.109	16	12	63	95	4:1	112	6:1	168	——	——
54	64	43	.109	16	12	70	102	4:1	132	6:1	198	——	——

① * MINIMUM THICKNESS OF ALL 10:1 SLOPED SIDE DRAINS IS 0.109".
② ACTUAL SLOPE GREATER THAN 10:1.



TYPE 2
CONNECTION DETAIL



SECTION B-B

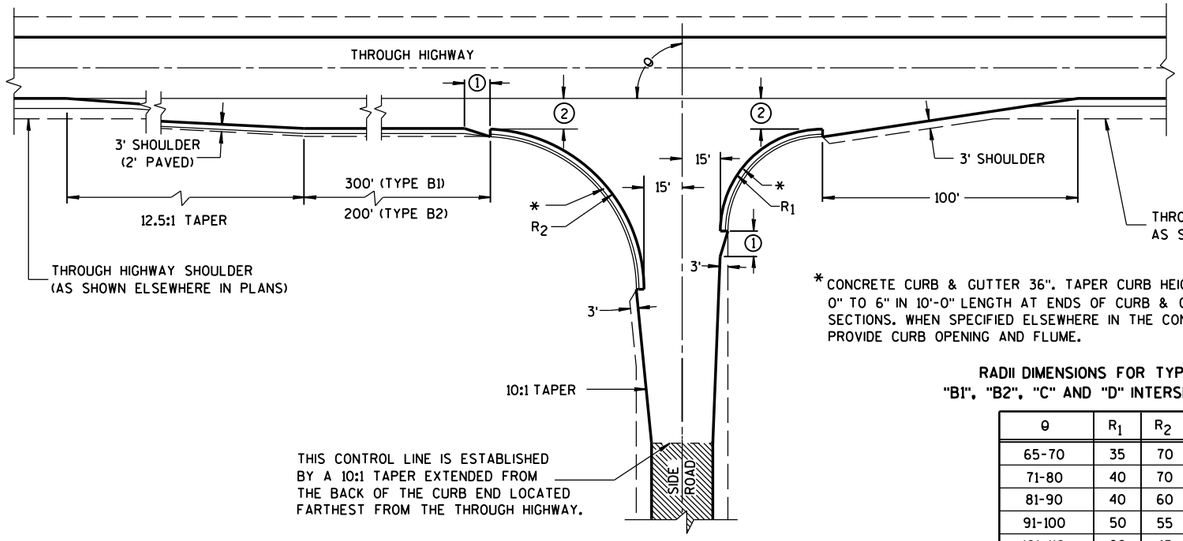
STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE DRAINS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/14/2012 — DATE
/S/ Jerry H. Zoda — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

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S.D.D. 8 F 7-5

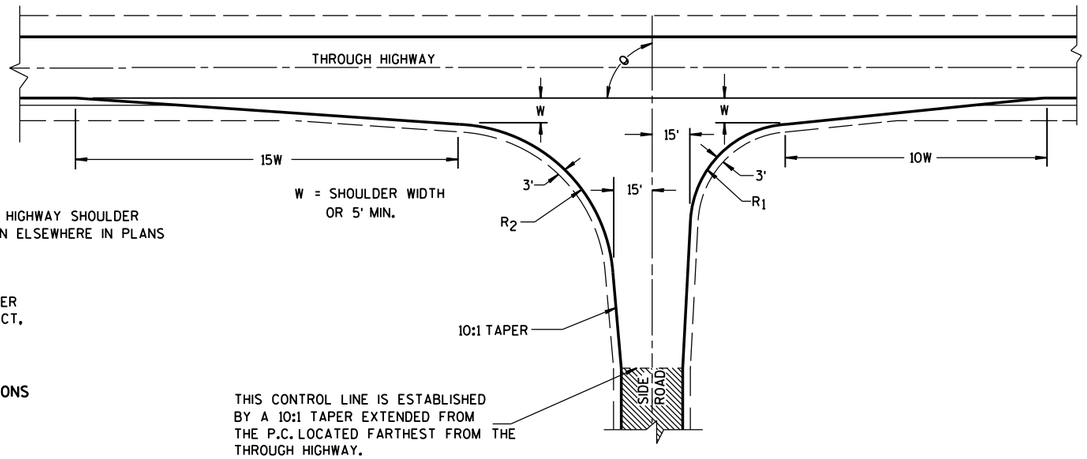


TYPE "B1" AND "B2"

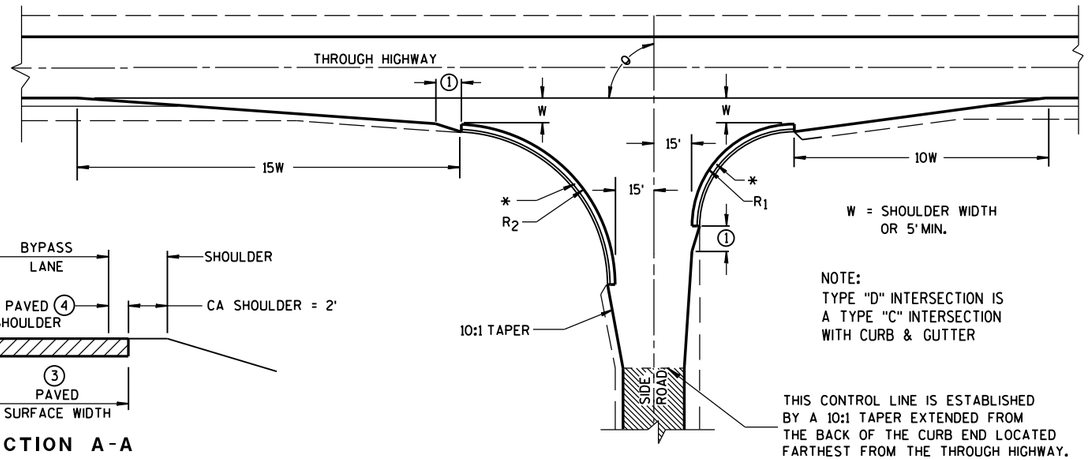
*CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

RADII DIMENSIONS FOR TYPES "B1", "B2", "C" AND "D" INTERSECTIONS

θ	R_1	R_2
65-70	35	70
71-80	40	70
81-90	40	60
91-100	50	55
101-110	60	45



TYPE "C"



TYPE "D"

GENERAL NOTES

DESIGNS MAY BE USED INTERCHANGEABLY IN COMBINATION OR SEPARATELY FOR ANY ONE COMPLETE INTERSECTION DEPENDING UPON INTERSECTION ANGLE AND SURFACING OF EACH APPROACH ROADWAY.

SIDE ROAD SURFACING NOTE

WHEN THE SIDE ROAD IS NOT PRESENTLY PAVED, PAVEMENT SHALL BE PLACED TO THE LIMITS SHOWN UNLESS OTHERWISE PROVIDED IN THE CONTRACT. WHERE THE CONSTRUCTION LIMITS ARE BEYOND THE PAVING LIMITS, CRUSHED AGGREGATE SURFACING SHALL BE PLACED BETWEEN THE PAVING LIMITS AND CONSTRUCTION LIMITS.

WHEN THE SIDE ROAD IS PRESENTLY PAVED, NEW PAVEMENT SHALL BE PLACED TO THE LIMITS OF DESIGN AS SHOWN AND BEYOND, IF NECESSARY, TO MEET EXISTING PAVEMENT.

WHEN THE SIDE ROAD IS THE CONSTRUCTION PROJECT, THE INTERSECTION SURFACING SHALL BE THE SAME AS FOR THE PROJECT.

EXISTING PAVED SURFACE

BYPASS LANE

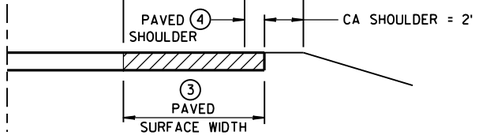
(1) 10-FT TYPICAL.

(2) 12-FT** PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLAN.

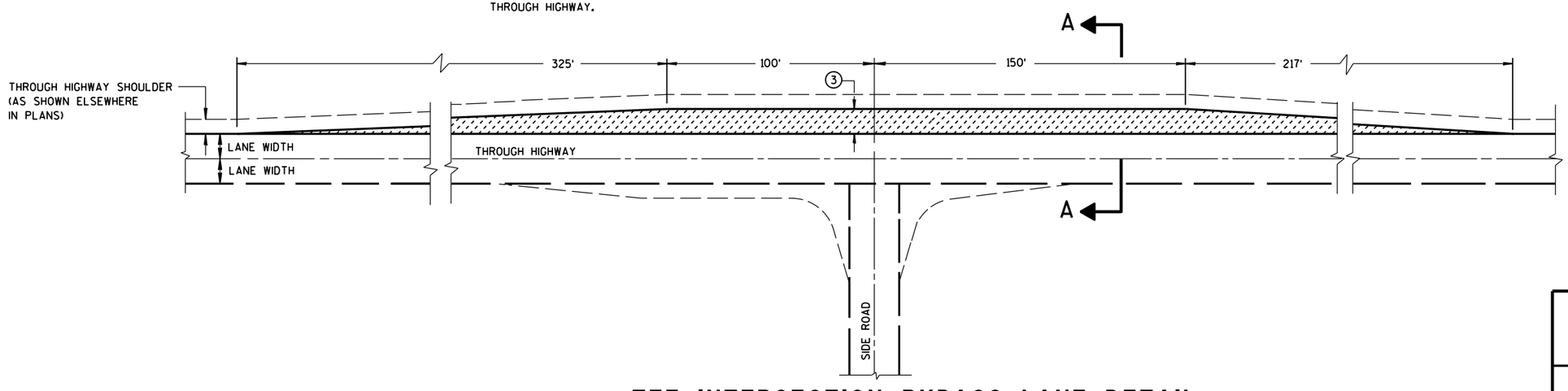
**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.

(3) BYPASS LANE PAVED SURFACE WIDTH OUTSIDE OF TRAVEL LANE
-ASPHALT = 12-FT PLUS PAVED SHOULDER WIDTH.
-PC CPNCRETE = 13-FT PLUS PAVED SHOULDER WIDTH.

(4) BYPASS LANE PAVED SHOULDER WIDTH = THE GREATER OF 1-FT OR THE PAVED SHOULDER WIDTH OF THE THROUGH HIGHWAY.



SECTION A-A
(SHOWING BYPASS LANE AND SHOULDER)



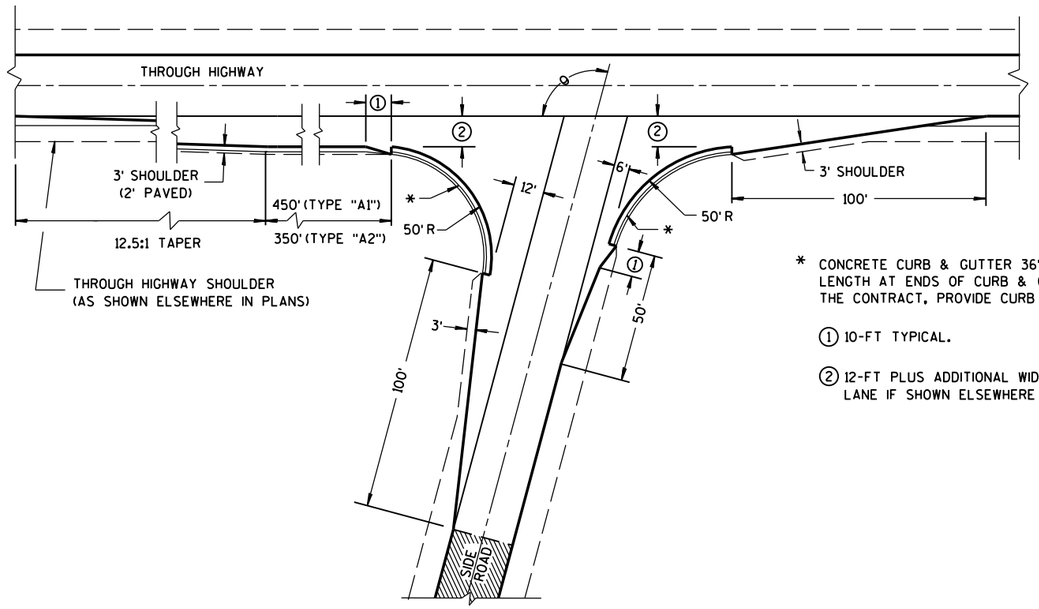
TEE INTERSECTION BYPASS LANE DETAIL

AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND "D" AND TEE INTERSECTION BYPASS LANE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 9 A 1-13a



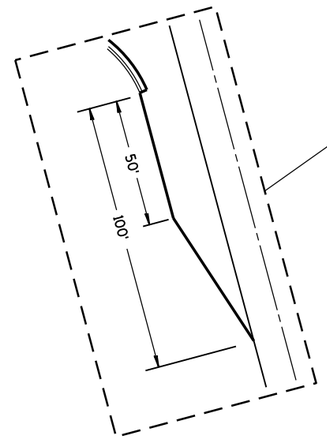
θ = MORE THAN 80°

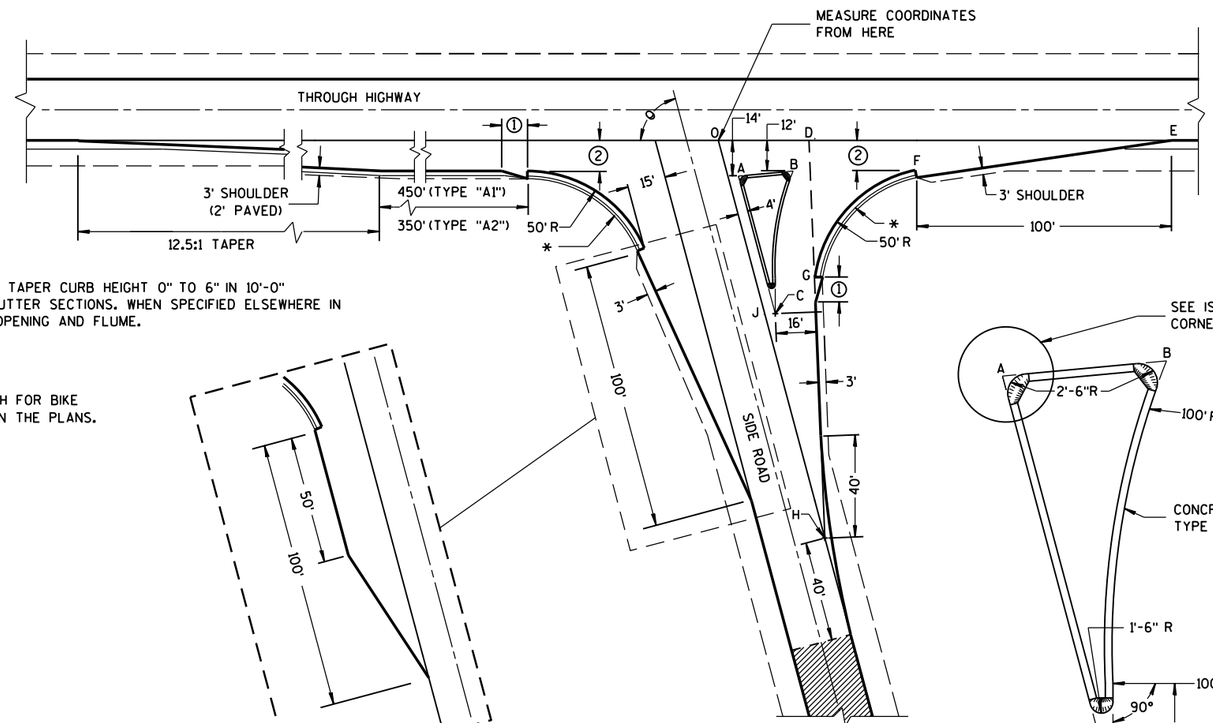
* CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

① 10-FT TYPICAL.

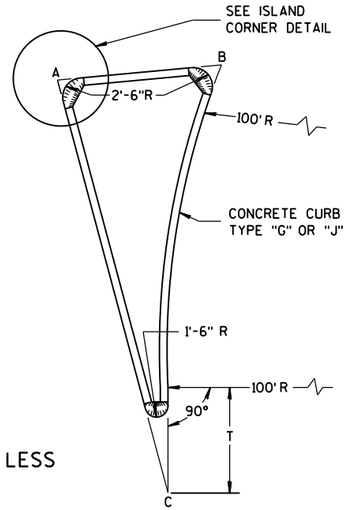
② 12-FT PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLANS.

EXISTING PAVED SURFACE

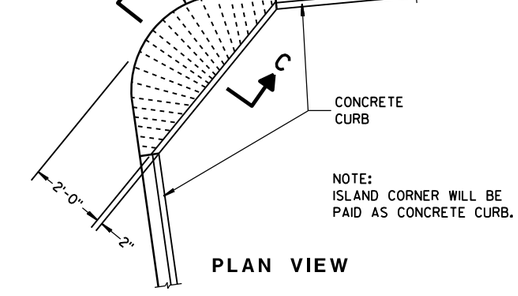




θ = ACUTE ANGLES 80° OR LESS

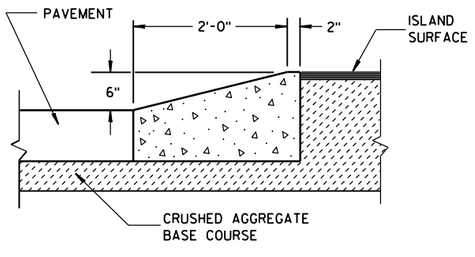


SIDE ROAD WIDENING AND TAPER REQUIRED WHERE
THE THROUGH HIGHWAY CARRIES TWO-WAY TRAFFIC
θ = ACUTE ANGLES 70° OR LESS



NOTE:
ISLAND CORNER WILL BE
PAID AS CONCRETE CURB.

PLAN VIEW



SECTION C-C

ISLAND CORNER DETAIL

(TO BE CONSTRUCTED AT ALL ISLAND CORNERS)

TABLE OF DIMENSIONS FOR
VARIABLE SIDE ROAD INTERSECTION ANGLES
(INTERPOLATE VALUES FOR ANGLES NOT SHOWN)

ANGLE θ DEGREES	COORDINATES IN FEET (MEASURED FROM POINT "O") X / Y								LENGTH IN FEET				
	A	B	C	D	E	F	G	H	AB	AC	T	OJ	OH
60	12.7 / -14.0	44.9 / -12.0	46.4 / -72.4	41.9 / 0.0	205.0 / 0.0	104.6 / -12.0	64.0 / -75.5	85.0 / -147.1	32.3	67.4	4.9	85.9	169.9
65	10.9 / -14.0	39.0 / -12.0	37.8 / -71.6	39.4 / 0.0	196.1 / 0.0	95.7 / -12.0	54.1 / -71.5	70.5 / -151.3	28.2	63.6	8.5	80.9	166.9
70	9.4 / -14.0	33.9 / -12.0	29.8 / -70.1	37.4 / 0.0	188.3 / 0.0	87.8 / -12.0	45.6 / -67.5	56.1 / -154.2	24.6	59.7	11.5	76.1	164.1
75	7.9 / -14.0	29.3 / -12.0	22.3 / -67.9	35.7 / 0.0	181.2 / 0.0	80.7 / -12.0	38.2 / -63.4	41.8 / -155.9	21.5	55.8	13.8	71.4	161.4
80	6.5 / -14.0	25.4 / -12.0	15.6 / -65.2	34.4 / 0.0	174.8 / 0.0	74.4 / -12.0	31.8 / -59.3	27.6 / -156.5	18.9	52.0	15.6	66.9	158.9

TYPE "A1" & "A2" SIDE ROAD INTERSECTION DETAILS

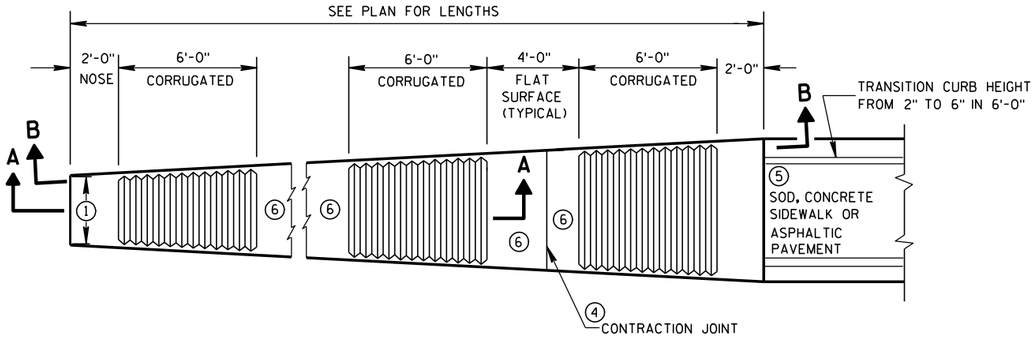
AT-GRADE SIDE ROAD
INTERSECTION, TYPE "A1" & "A2"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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12/18/12 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

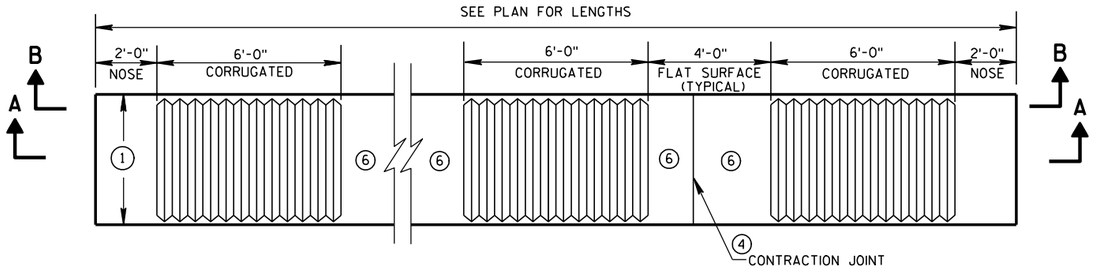
S.D.D. 9 A 1-13b

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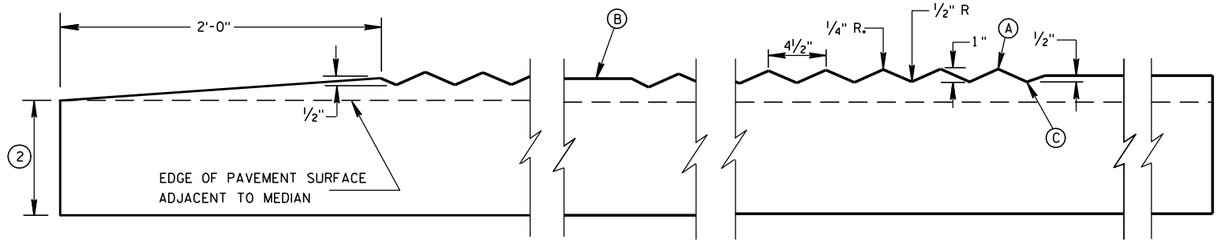
PLAN VIEW

VARIABLE WIDTH CONCRETE CORRUGATED MEDIAN



PLAN VIEW

UNIFORM WIDTH CONCRETE CORRUGATED MEDIAN



SECTION A-A

LONGITUDINAL SECTION

GENERAL NOTES

(1) SEE PLANS FOR CONSTANT OR VARIABLE WIDTH.

(2) THE DEPTH OF THE CONCRETE CORRUGATED MEDIAN SHALL BE 9-INCHES UNLESS SHOWN OTHERWISE IN THE PLAN.

ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN IN THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

(2) ASPHALTIC CONCRETE OVER NEW OR EXISTING CONCRETE BASE COURSE, OR PAVEMENT.

(3) ASPHALTIC PAVEMENT OVER BASE AGGREGATE DENSE.

(3) 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.

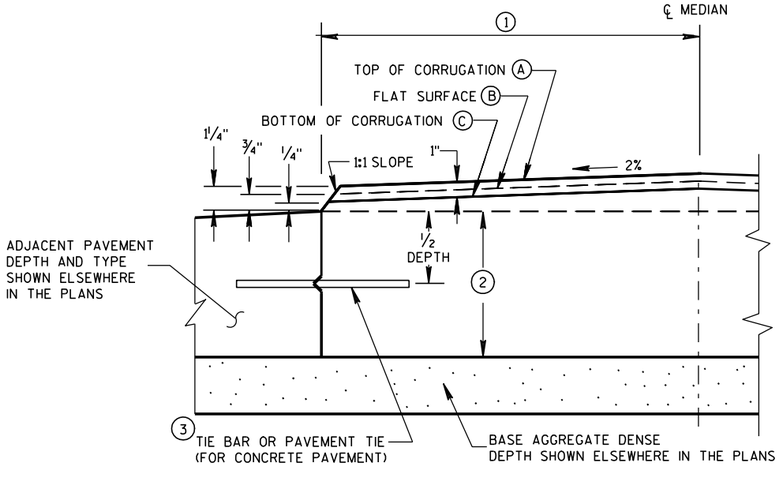
INSTALL TIE BARS TO MAINTAIN A MINIMUM OF 3-INCHES OF COVER BETWEEN THE TIE BAR AND THE CONCRETE SURFACE (BOTTOM AND TOP).

PAVEMENT TIES REQUIRED IN EXISTING CONCRETE PAVEMENT OR 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.

(4) CONCRETE CORRUGATED MEDIAN CONTRACTION JOINTS SHALL BE CONSTRUCTED TO MATCH THE JOINTS IN ADJACENT CONCRETE PAVEMENT. WHERE ADJACENT PAVEMENT IS ASPHALT WITH BASE AGGREGATE DENSE. TRANSVERSE CONTRACTION JOINTS SHALL BE PROVIDED AT 20 FOOT INTERVALS.

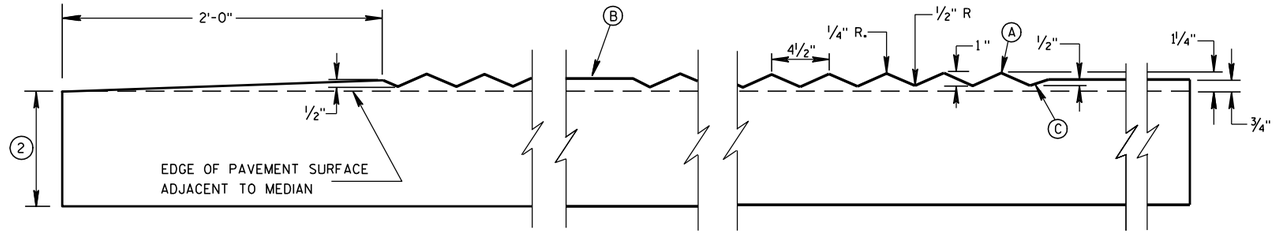
(5) SURFACE TYPE AND DETAILS ARE DEFINED ELSEWHERE IN THE PLAN.

(6) YELLOW MARKING ON FLAT SURFACE WHEN MEDIAN SEPARATES OPPOSING TRAFFIC.



HALF CROSS SECTION

(2) CONCRETE CORRUGATED MEDIAN AND ADJACENT PAVEMENT



SECTION B-B

LONGITUDINAL SECTION

CONCRETE CORRUGATED MEDIAN

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

12/17/07
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

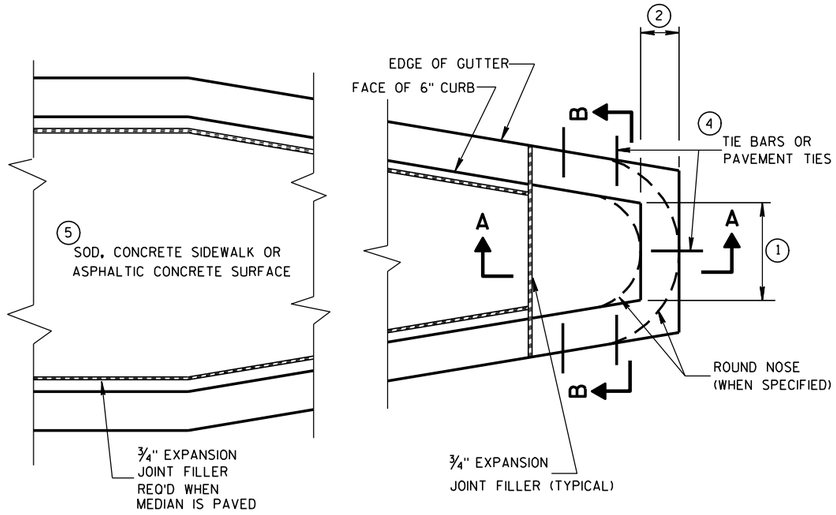
FHWA

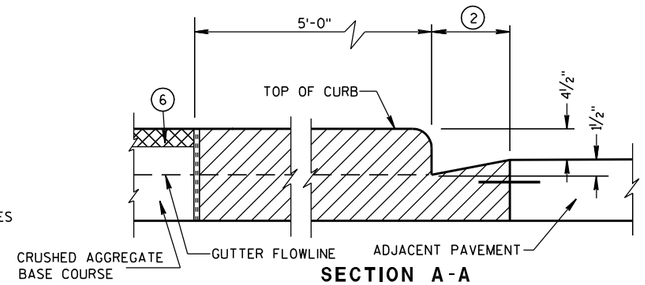
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S.D.D. 11 B 1-5

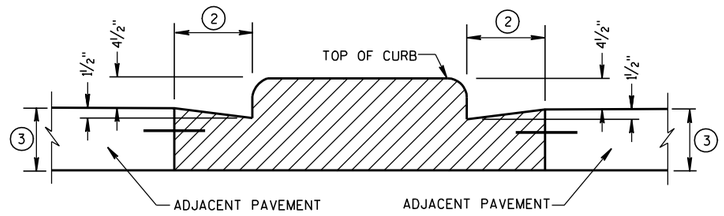
6

S.D.D. 11 B 1-5





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.

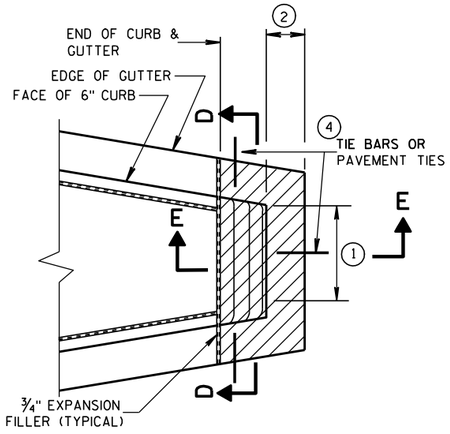
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

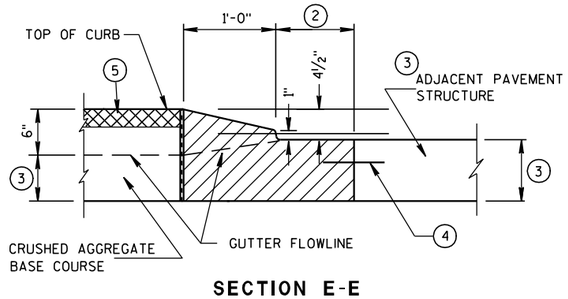
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

(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.

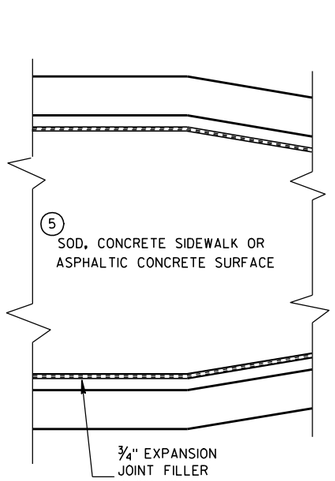
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

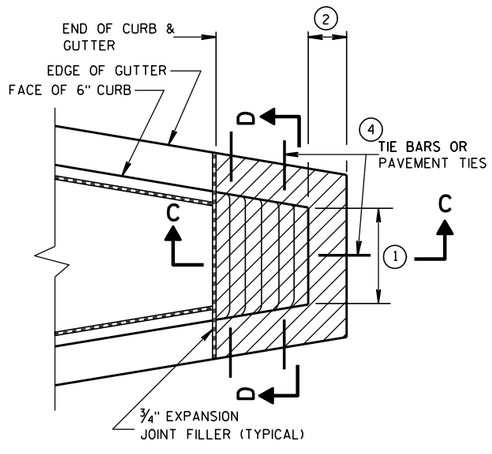




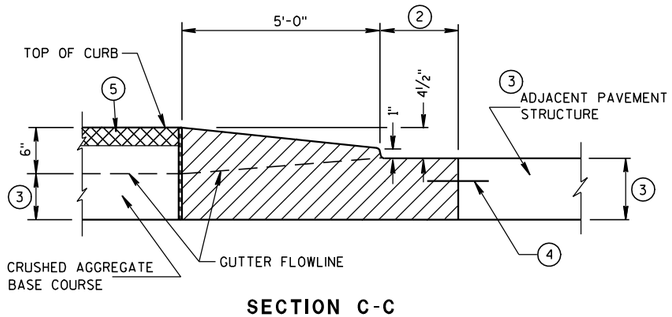
SECTION E-E

CONCRETE MEDIAN SLOPED NOSE TYPE 2

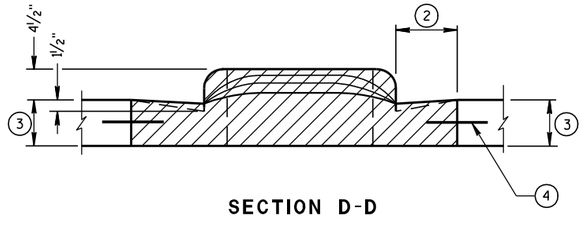




CONCRETE MEDIAN SLOPED NOSE TYPE 1



SECTION C-C



SECTION D-D

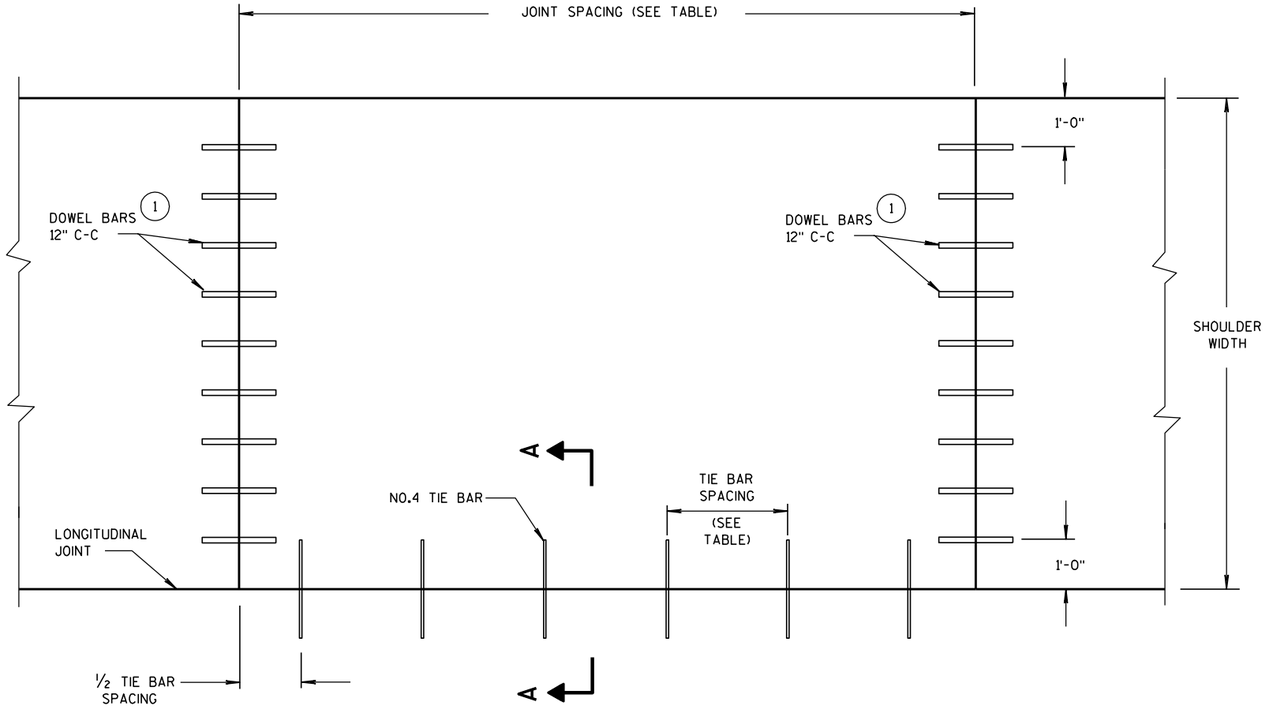
CONCRETE MEDIAN NOSE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 6/8/2006 DATE FHWA	/S/ Jerry H. [illegible] ROADWAY STANDARDS ENGINEER 182
	NT

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S.D.D. 11 B 2-2

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S.D.D. 11 B 2-2



PLAN VIEW

CONCRETE PAVEMENT SHOULDER

PAVEMENT TYPE OF TRAFFIC LANES	TIE BAR SPACING	SHOULDER JOINT SPACING
NON-REINFORCED	30"	MATCH JOINT SPACING OF ADJACENT TRAFFIC LANE
CONTINUOUSLY REINFORCED	30"	15' FOR 6' TO 10' WIDE SHOULDERS
CONTINUOUSLY REINFORCED	36"	12' FOR 3' WIDE SHOULDERS

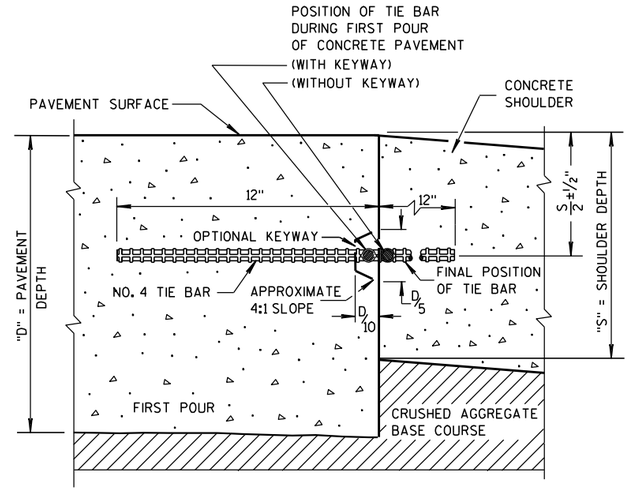
GENERAL NOTES

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.

TRANSVERSE JOINT DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

FINISH THE SHOULDER PAVEMENT CONFORMING TO SUBSECTION 415.3.8 OF THE STANDARD SPECIFICATIONS.

TIE BARS SHALL CONFORM TO SUBSECTION 505.2.4 OF THE STANDARD SPECIFICATIONS.



SECTION A-A

LONGITUDINAL CONSTRUCTION JOINT

(1) 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'

FOR DOWELED CONCRETE SHOULDERS WITH TRAPEZOIDAL CROSS SECTIONS, CHOSE THE APPROPRIATE DOWEL BAR DIAMETER BASED ON THE SMALLER PAVEMENT DEPTH (LIKELY THE OUTSIDE EDGE OF THE SHOULDER). IF USING BASKETS, USE BASKETS FOR THE AVERAGE THICKNESS OF THE CROSS SECTION.

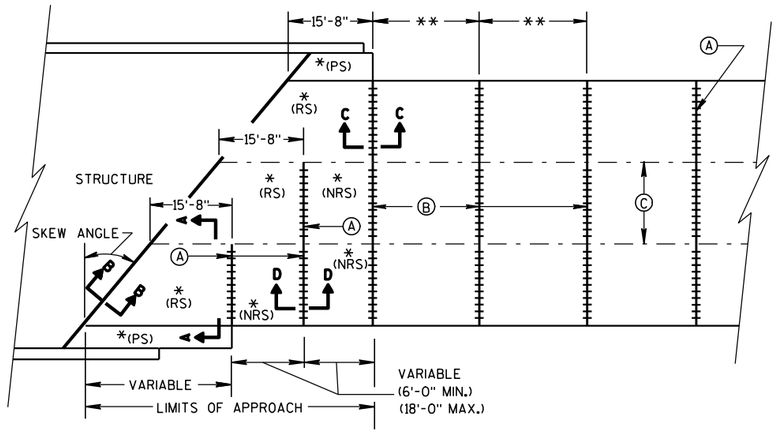
CONCRETE PAVEMENT SHOULDERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

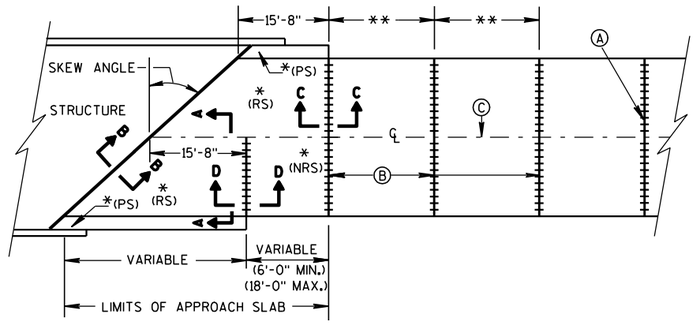
APPROVED
8/15/2011 — DATE
/S/ Deb Bischoff — PAVEMENT POLICY & D — INEER
FHWA

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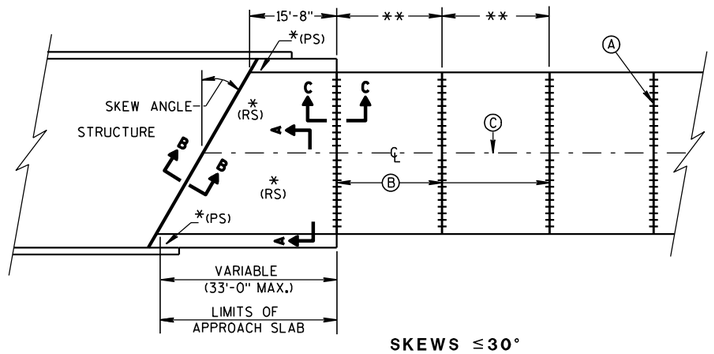
S.D.D. 13 A 3-5



SKEWED APPROACH
(PAVEMENT MORE THAN 2 LANES)



SKEWS >30°
(PAVEMENT WIDTH ≤30')



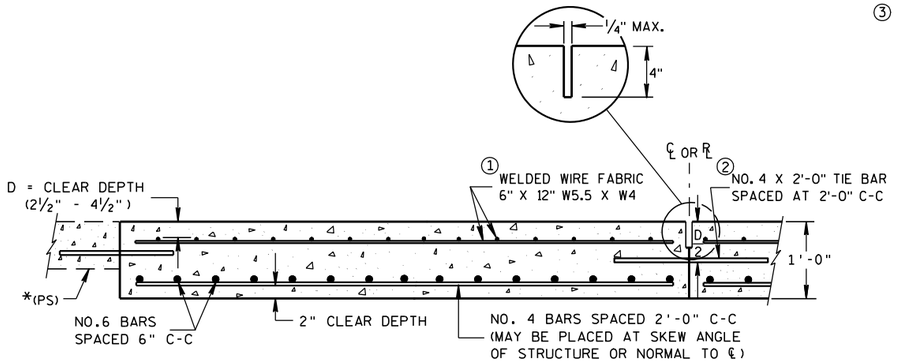
SKEWS ≤30°
(PAVEMENT WIDTH ≤30')

APPROACH SLAB AND ADJACENT PAVEMENT

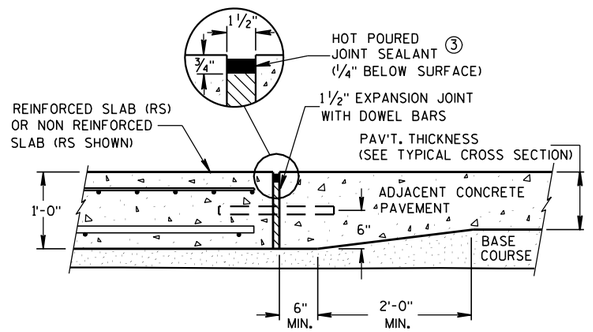
*(RS) = REINFORCED CONCRETE SLAB
*(PS) = PAVED CONCRETE SHOULDER: CONCRETE PAVEMENT, OR CONCRETE SURFACE DRAIN
(SEE DETAILS ELSEWHERE IN THE PLAN)
*(NRS) = NON-REINFORCED CONCRETE SLAB

**STANDARD TRANSVERSE JOINT SPACING
(SEE SDD 13C4, SDD 13C11, & SDD 13C13)

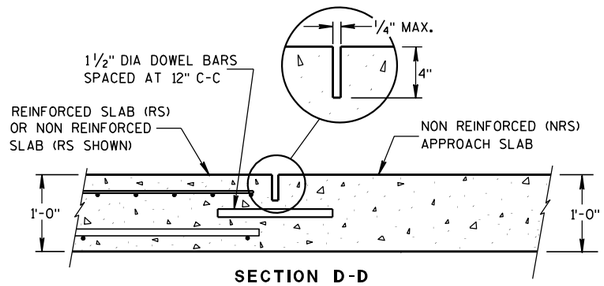
(A) STANDARD CONTRACTION JOINT NORMAL TO ℄ OR ℄
(B) 1½" EXPANSION JOINT WITH DOWEL BARS NORMAL TO ℄ OR ℄
(C) STANDARD LONGITUDINAL JOINT AND TIE BARS.



SECTION A-A
REINFORCEMENT POSITIONING DETAIL



SECTION C-C
TRANSITION DETAIL
APPROACH SLAB TO ADJACENT PAVEMENT



SECTION D-D
CONTRACTION JOINT

GENERAL NOTES

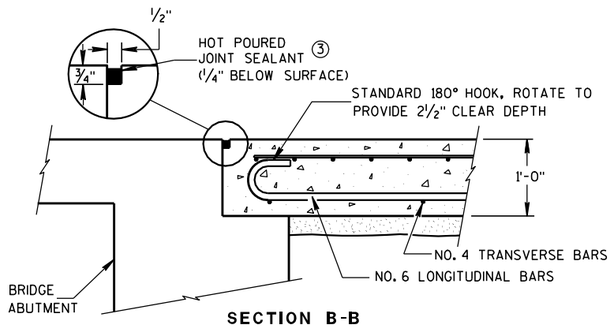
APPROACH SLABS ABUTTING AN HMA PAVEMENT OVER BASE COURSE DO NOT NEED TO BE DOWELED.

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.

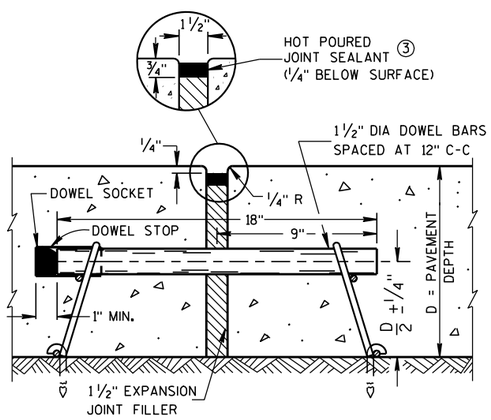
① THE CONTRACTOR MAY USE NO. 4 BARS SPACED AT 2'-0" C-C IN BOTH THE LONGITUDINAL AND TRANSVERSE DIRECTIONS FOR TOP REINFORCEMENT AS AN ALTERNATIVE TO THE WELDED WIRE FABRIC.

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



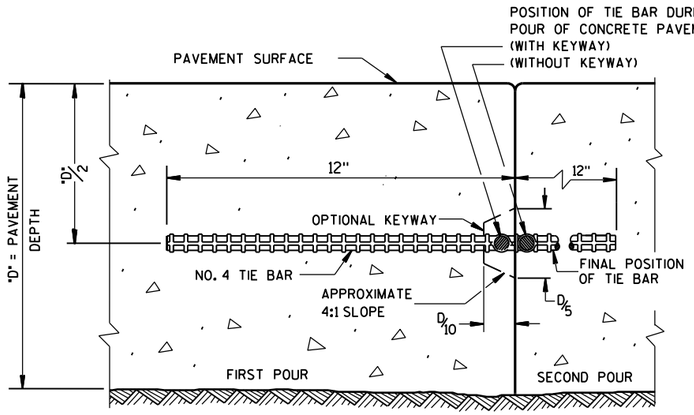
EXPANSION JOINT

CONCRETE PAVEMENT APPROACH SLAB

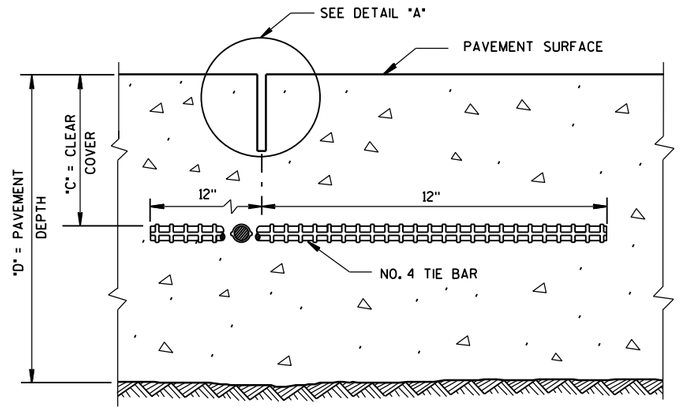
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12/11/2009 — DATE
/S/ Deb Bischoff — PAVEMENT POLICY & DESIGN ENGINEER
FHWA

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S.D.D. 13 B 2-6



CONSTRUCTION JOINT



SAWED JOINT

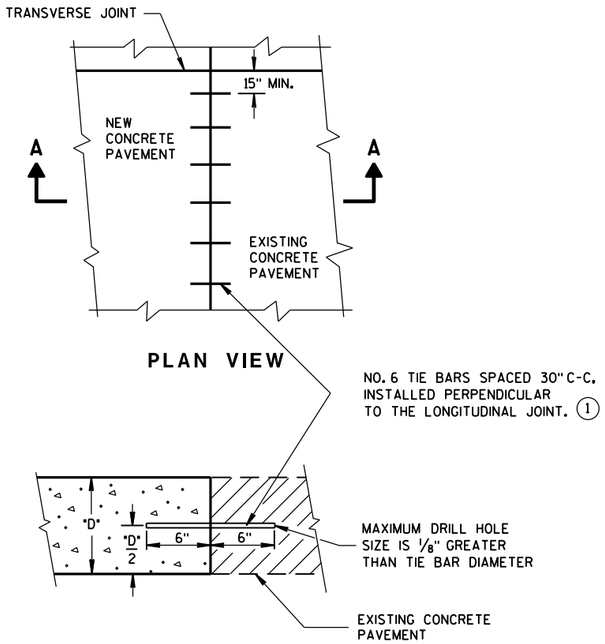
GENERAL NOTES

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.

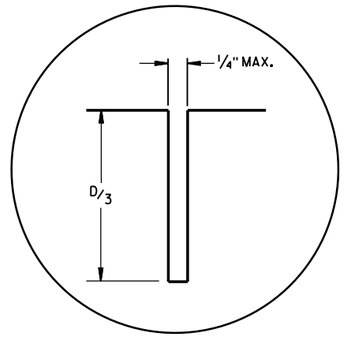
(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



PLAN VIEW

SECTION A-A

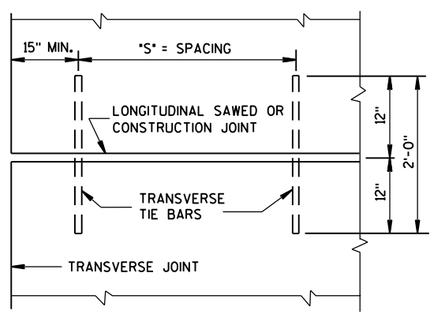
LONGITUDINAL CONSTRUCTION JOINT
TIE BARS ANCHORED
INTO EXISTING PAVEMENT



DETAIL "A"

TIE BAR TABLE

PAVEMENT DEPTH "D"	CLEAR COVER "C"	MAXIMUM TIE BAR SPACING "S"	
		PAVEMENT WIDTH	
		24' OR 26'	≥ 30'
6, 6 1/2"	3"±1/2"	48"	42"
7, 7 1/2"	3 1/4"±1"	45"	36"
8, 8 1/2"	3 3/4"±1"	39"	30"
9, 9 1/2"	4 1/4"±1"	33"	27"
10, 10 1/2"	4 3/4"±1"	30"	24"
11, 11 1/2"	5 1/4"±1"	27"	21"
12"	5 3/4"±1"	24"	21"



PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT
LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

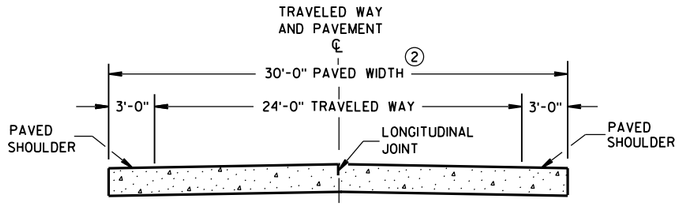
5-3-2013
DATE

/S/ Deb Bischoff
PAVEMENT POLICY & DE ... NEER

FHWA

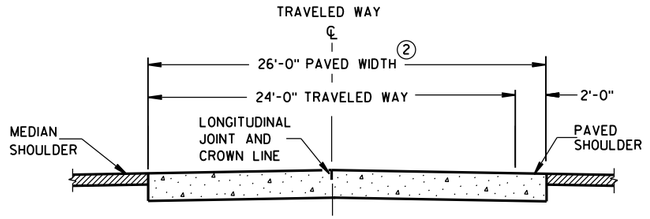
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S.D.D. 13 C 1-16

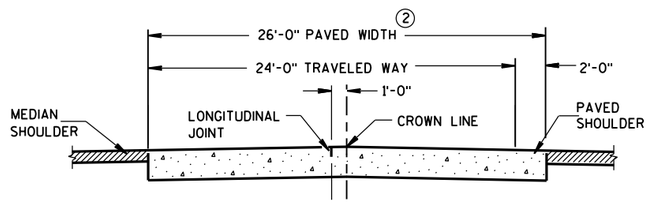


SECTION A-A ①

TWO-LANE TWO-WAY HIGHWAY



SECTION B-B



ALTERNATIVE SECTION B-B ①

DIVIDED HIGHWAY

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE 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, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES AND A MAXIMUM OF 18 INCHES FROM THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

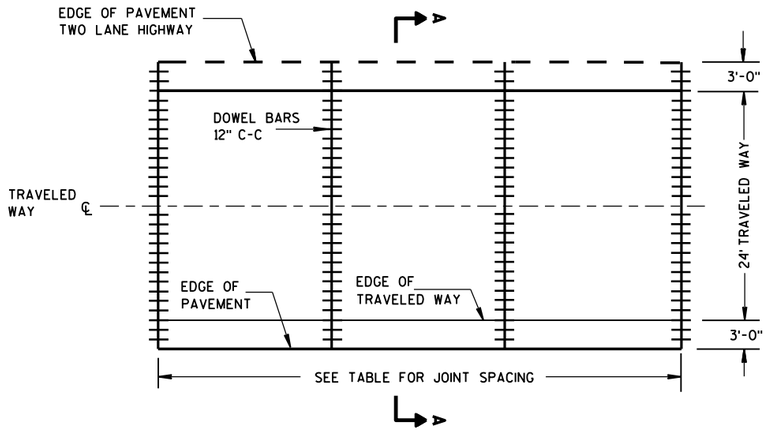
LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.

① REFER TO TYPICAL CROSS SECTIONS FOR ADDITIONAL DETAILS.

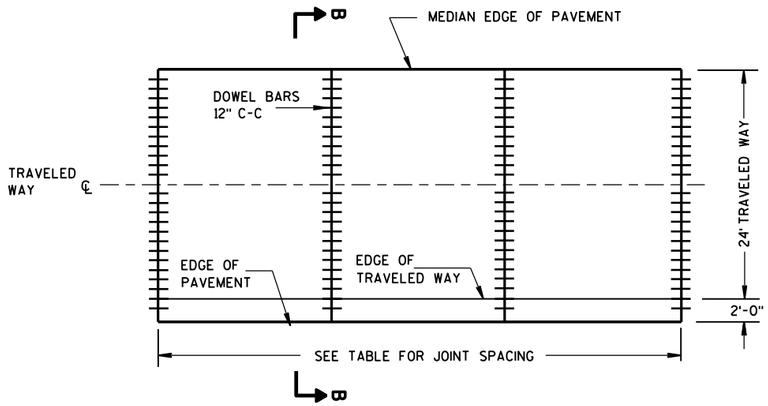
② MEASURE THE ENTIRE PAVED WIDTH INCLUDING THE PORTION(S) LABELED PAVED SHOULDER AS CONCRETE PAVEMENT.

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



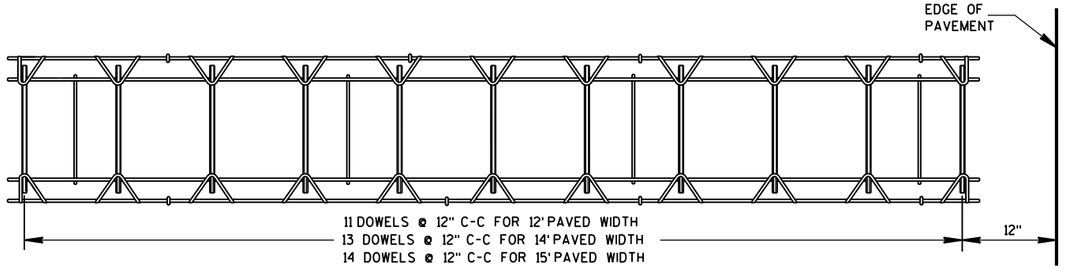
CONTRACTION JOINT LAYOUT
FOR DIVIDED HIGHWAY

RURAL DOWELED
CONCRETE PAVEMENT

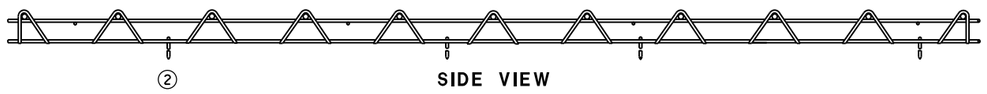
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 13 C 11-11a



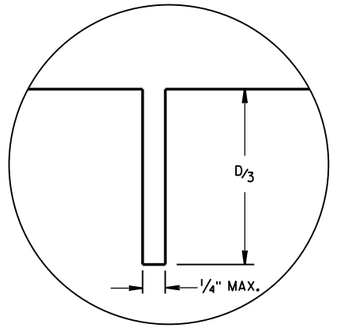
PLAN VIEW



SIDE VIEW

(NORMAL TO CENTERLINE)

CONTRACTION JOINT DOWEL ASSEMBLY ①



JOINT DETAIL

GENERAL NOTES

① OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTING CONTRACTION JOINTS.

② 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.

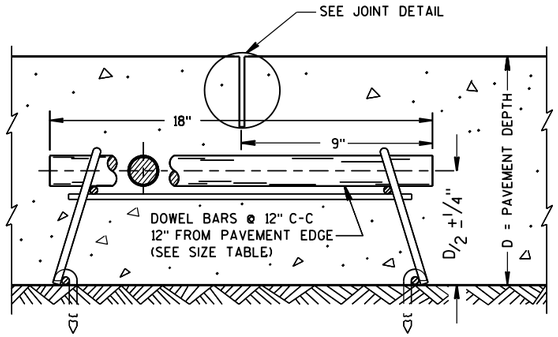
③ FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A 1/4-INCH RADIUS AT FORMED JOINTS.

④ PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.

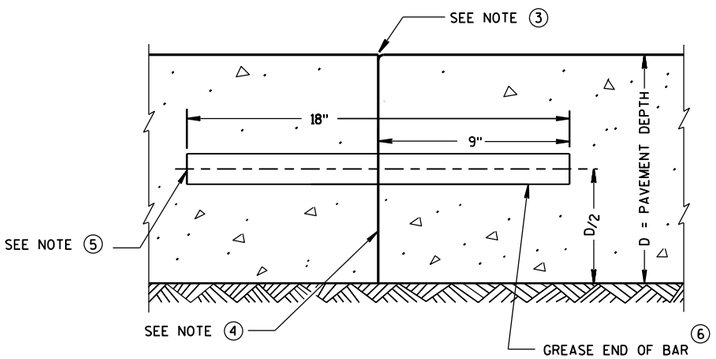
⑤ INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C-C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO *DRILLED DOWEL BAR CONSTRUCTION JOINT* DETAIL.

⑥ APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

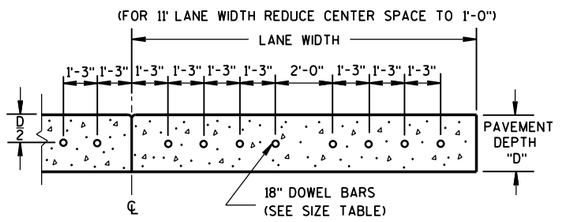
⑦ ANCHOR DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS 1/8-INCH GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.



DOWELED CONTRACTION JOINT



TRANSVERSE CONSTRUCTION JOINT



DRILLED DOWEL BAR CONSTRUCTION JOINT ⑦

RURAL DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

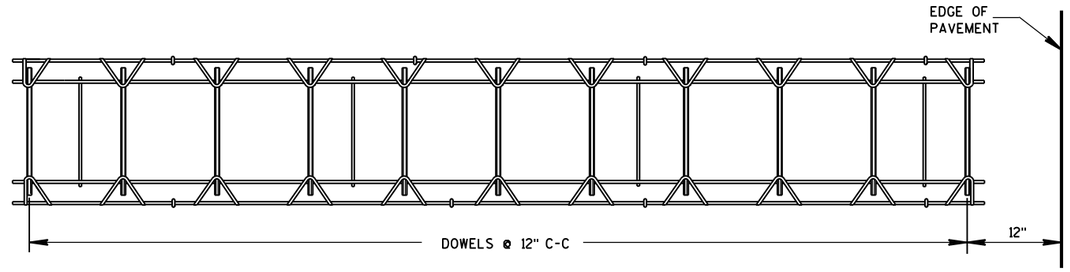
APPROVED
5/3/2013 DATE
/S/ Deb Bischoff PAVEMENT POLICY & DE
FHWA

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S.D.D. 13 C 11-11b

6

S.D.D. 13 C 11-11b

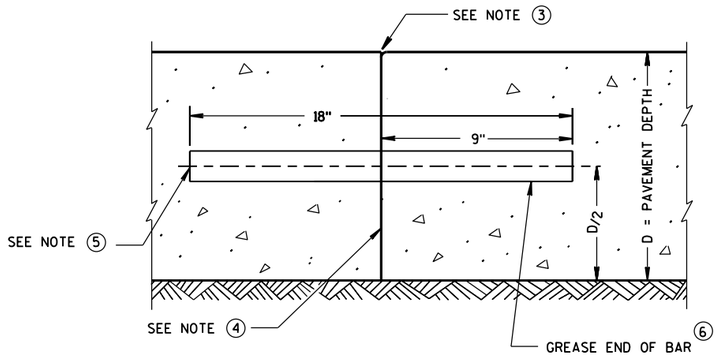


PLAN VIEW

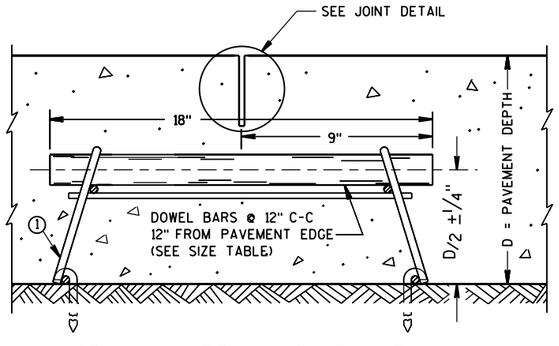


SIDE VIEW

CONTRACTION JOINT DOWEL ASSEMBLY ①



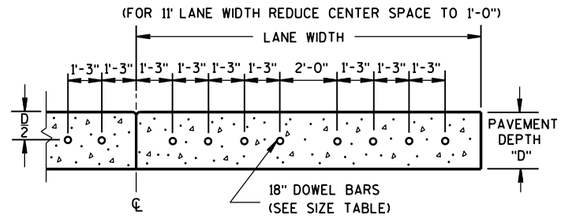
TRANSVERSE CONSTRUCTION JOINT



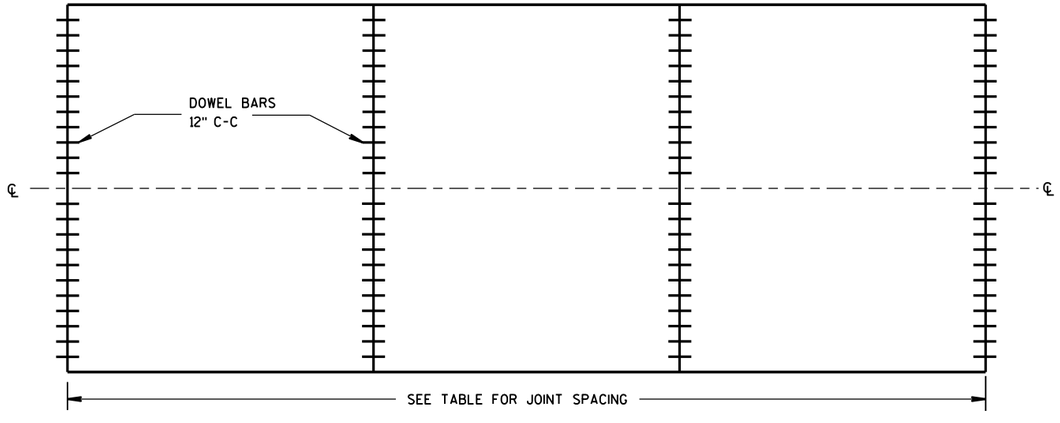
DOWELED CONTRACTION JOINT

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'



DRILLED DOWEL BAR CONSTRUCTION JOINT ⑦



CONTRACTION JOINT LOCATIONS

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE 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, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES AND A MAXIMUM OF 18 INCHES FROM THE LONGITUDINAL JOINT AND THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.

① **OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTING CONTRACTION JOINTS.**

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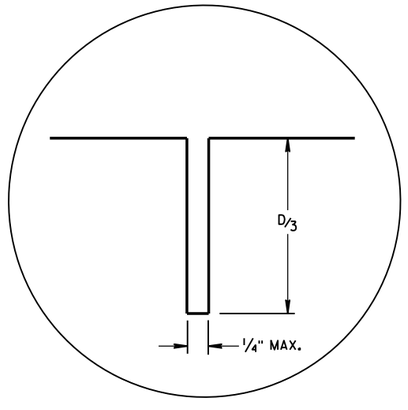
③ FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A ¼-INCH RADIUS AT FORMED JOINTS.

④ PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.

⑤ INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C-C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO *DRILLED DOWEL BAR CONSTRUCTION JOINT* DETAIL.

⑥ APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

⑦ ANCHOR DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS ⅛-INCH GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.



JOINT DETAIL

URBAN DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/3/2013 DATE
/S/ Deb Bischoff
PAVEMENT POLICY & DE ...NEER
FHWA

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S.D.D. 13 C 13-8

GENERAL NOTES

PCCP = PORTLAND CEMENT CONCRETE PAVEMENT.

SHLDR = SHOULDER.

CONTINUE SAW CUT CONTRACTION JOINT ACROSS TURN LANE, EXIT TAPER AND PASSING LANE.

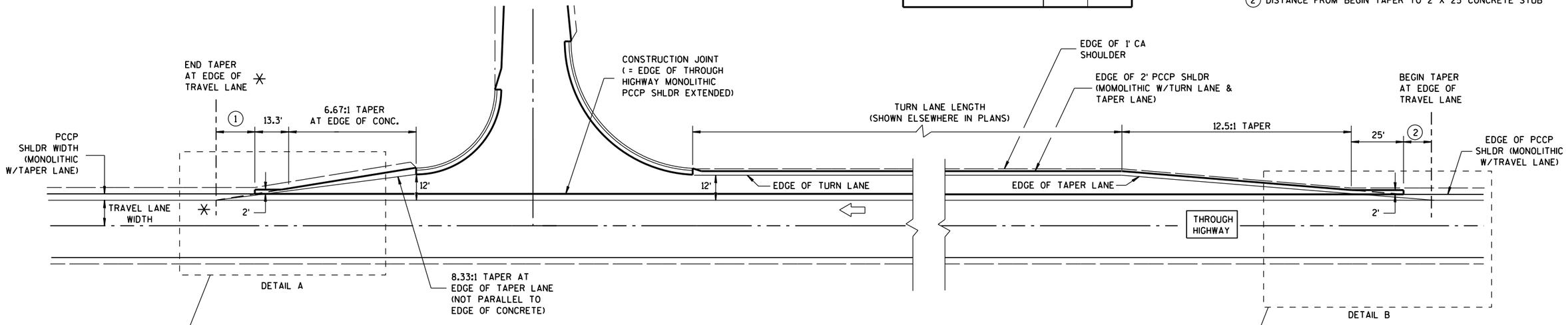
PAVEMENT MARKING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.

THROUGH HIGHWAY LANE WIDTH AND PCCP SHOULDER WIDTH ARE SHOWN ELSEWHERE IN PLANS

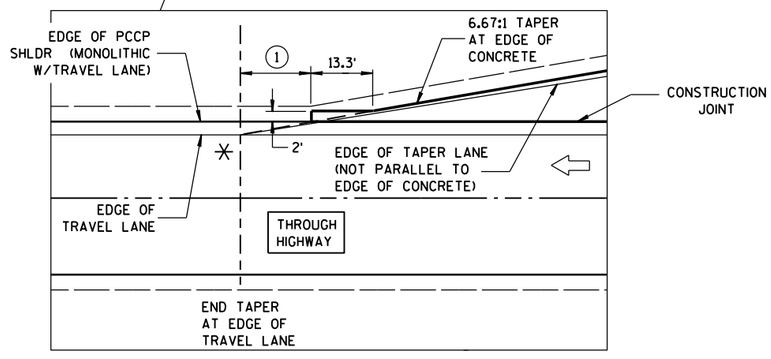
(1) DISTANCE FROM END TAPER TO 2' X 13.3' CONCRETE STUB

(2) DISTANCE FROM BEGIN TAPER TO 2' X 25' CONCRETE STUB

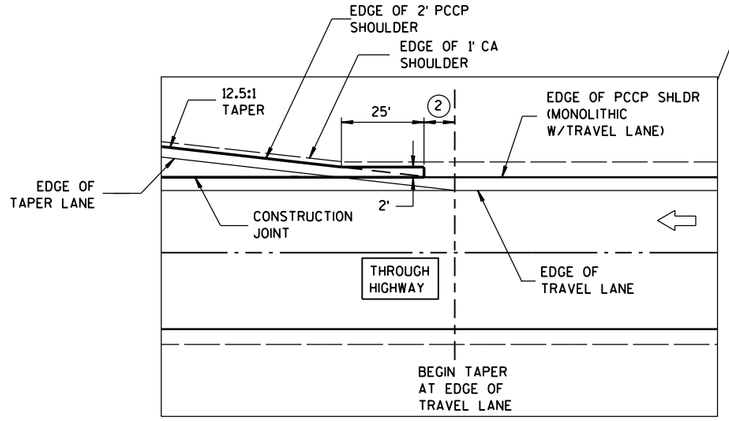
THROUGH HIGHWAY MONOLITHIC PCCP SHOULDER WIDTH (FEET)	DISTANCE (FEET)	
	(1)	(2)
2	13.3	0.0
3	20.0	12.5
TAPER RATE : 1	6.67	12.5



NOTE: EDGE OF CONCRETE TAPER (EXTENDED) & EDGE OF TAPER LANE CONVERGE



DETAIL A



DETAIL B

RIGHT TURN LANE AND EXIT TAPER

DETAIL FOR RIGHT TURN LANE/ TEE INTERSECTION BYPASS LANE ON A CONCRETE ROADWAY

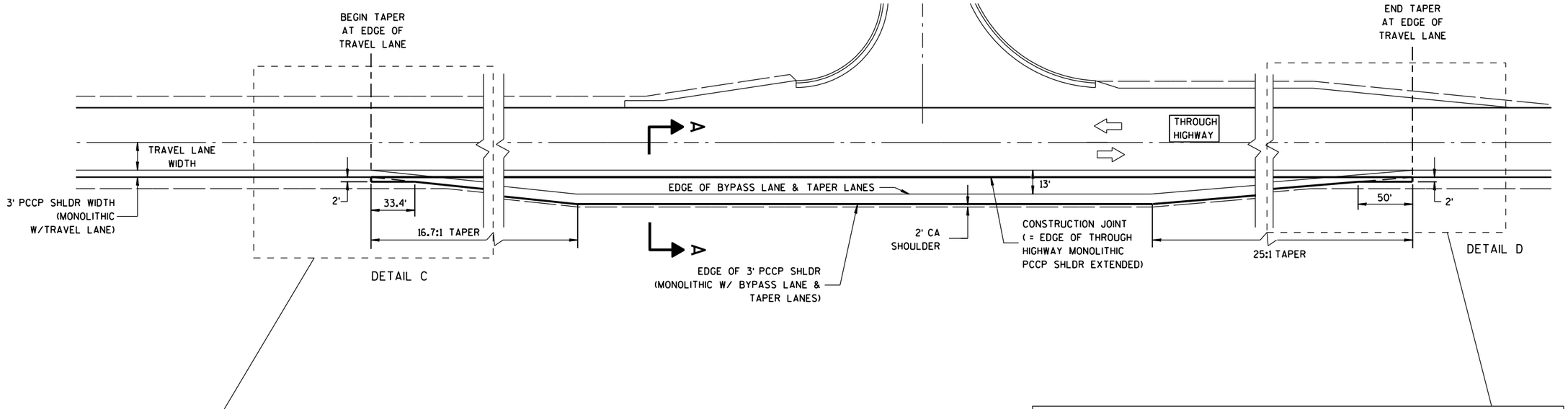
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

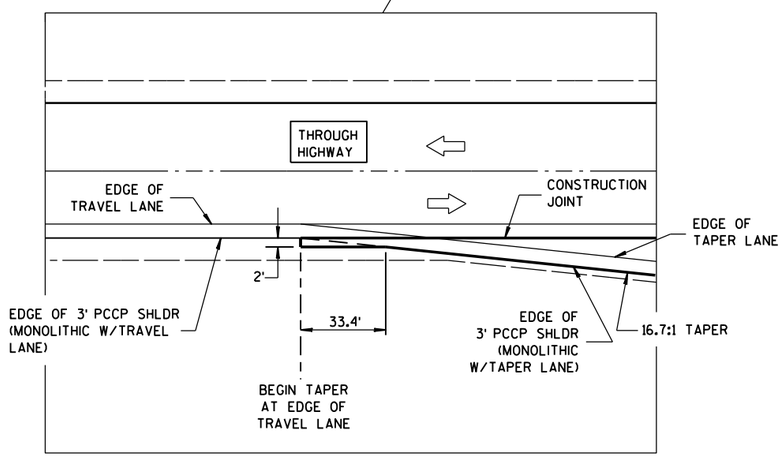
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S.D.D. 13 C 16-2a

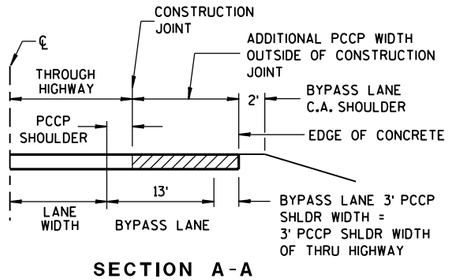
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S.D.D. 13 C 16-2a



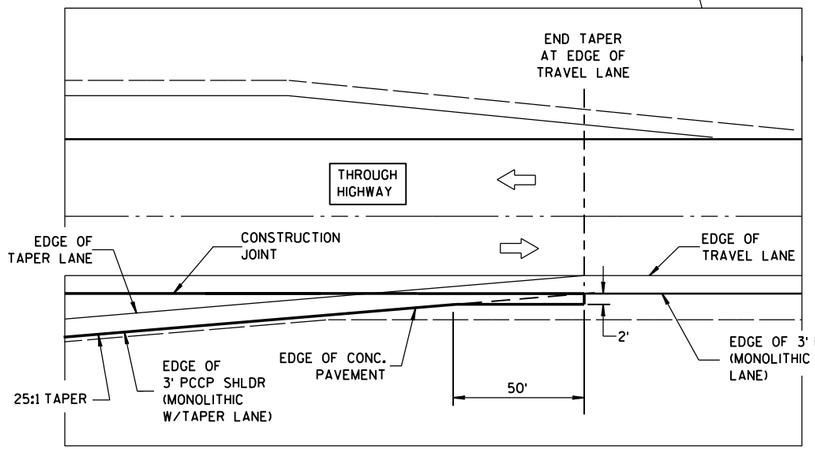


DETAIL C



SECTION A-A

(SHOWING BYPASS LANE AND SHOULDER)



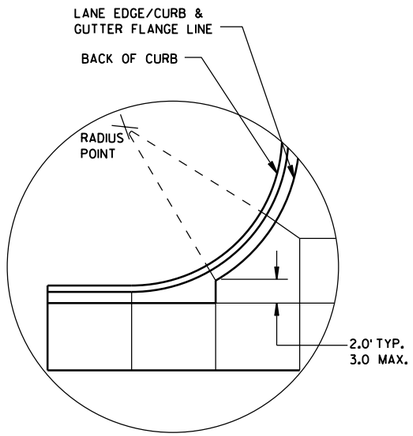
DETAIL D

TWO LANE UNDIVIDED HIGHWAY TEE INTERSECTION BYPASS LANE

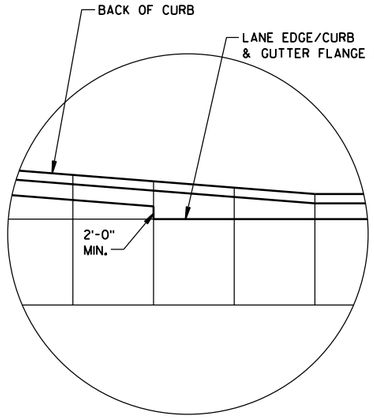
DETAIL FOR RIGHT TURN LANE/ TEE INTERSECTION BYPASS LANE ON A CONCRETE ROADWAY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
12/18/12 DATE	/S/ Jerry H. Zogg ROADWAY STANDARDS ENGINEER
FHWA	

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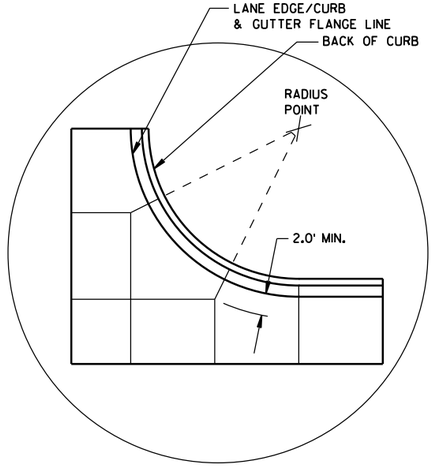
S.D.D. 13 C 16-2b



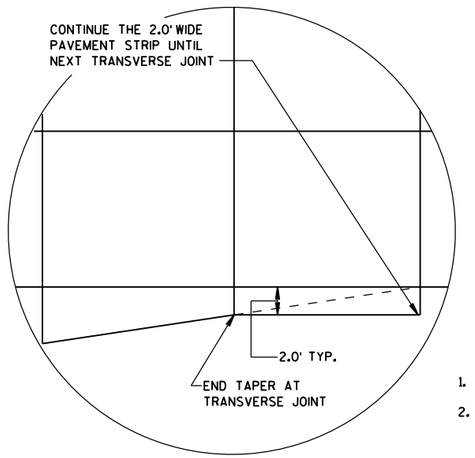
DETAIL "A"



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.

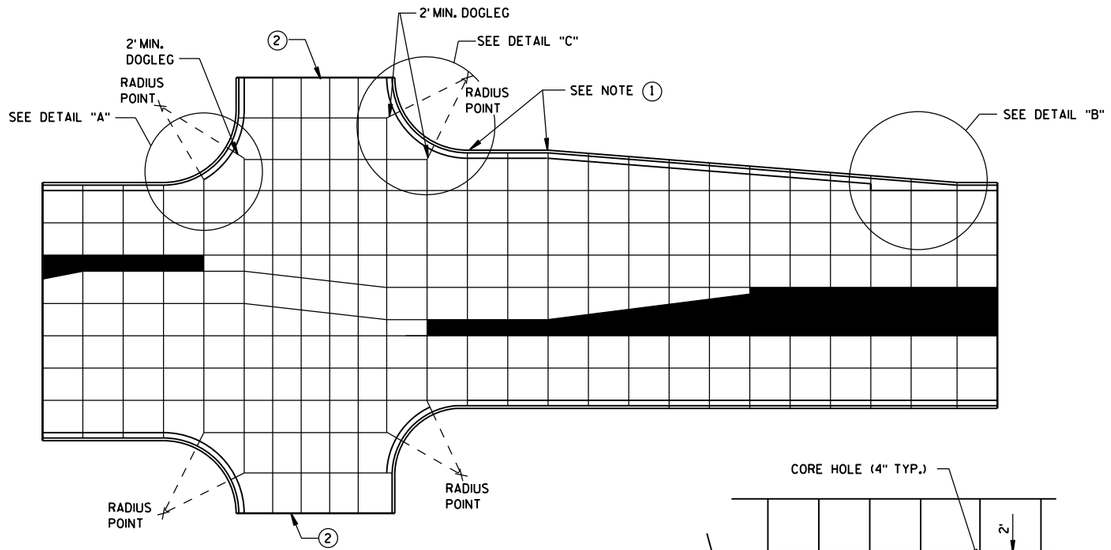
AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

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.

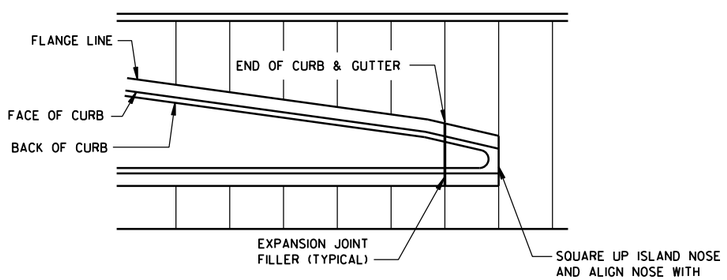


STANDARD INTERSECTION

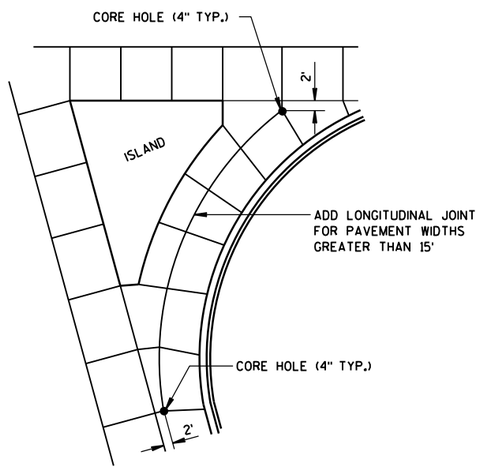
PAVEMENT DEPTH AND JOINT SPACING TABLE

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 TRANSPOR

6

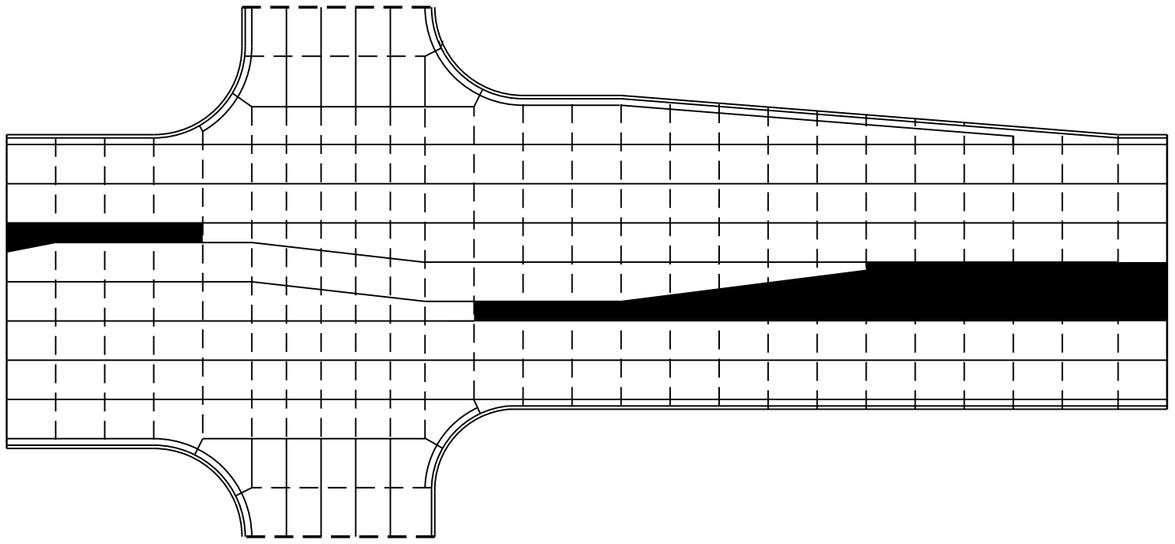
S.D.D. 13 C 18-2a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

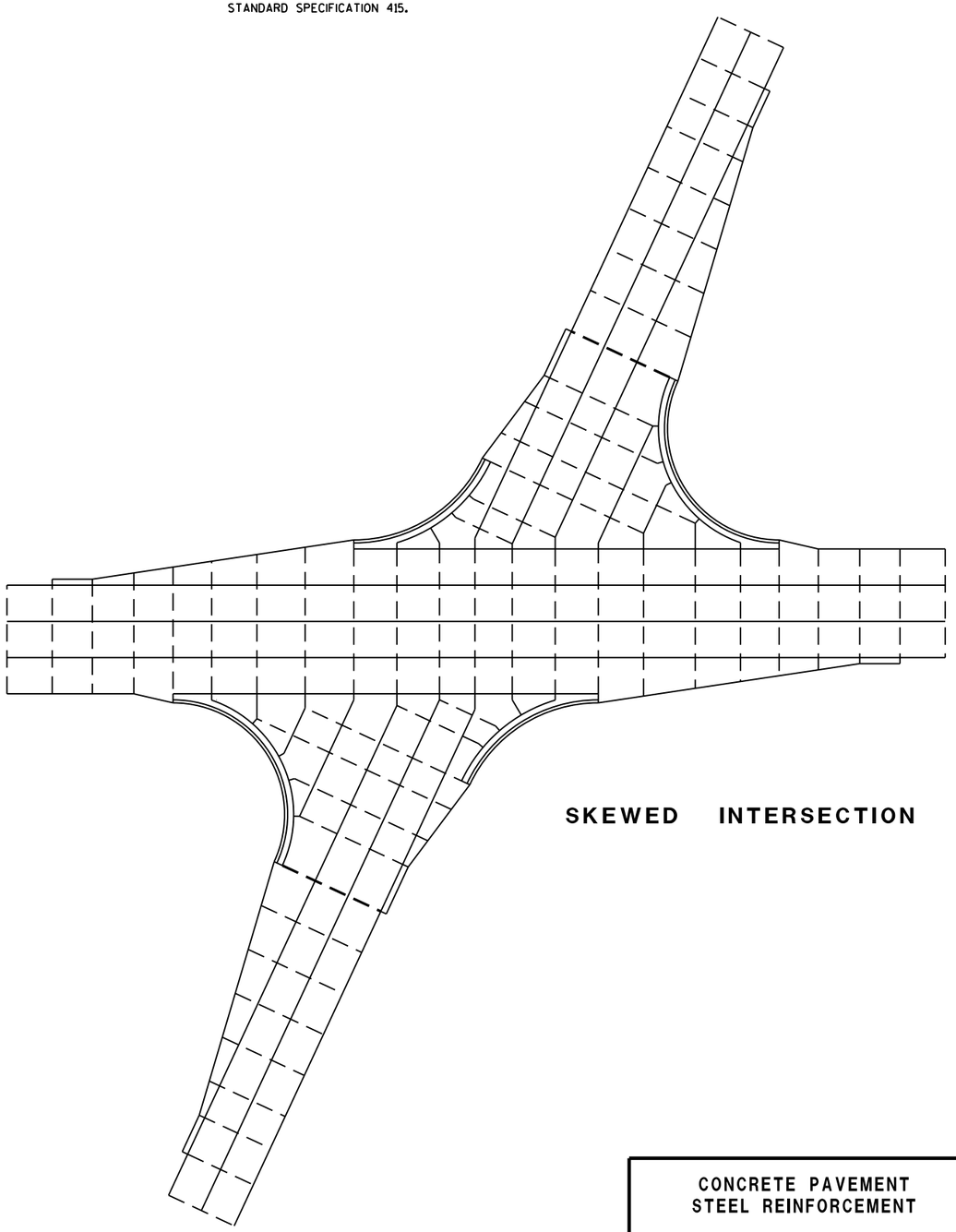
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

CONCRETE PAVEMENT
STEEL REINFORCEMENT

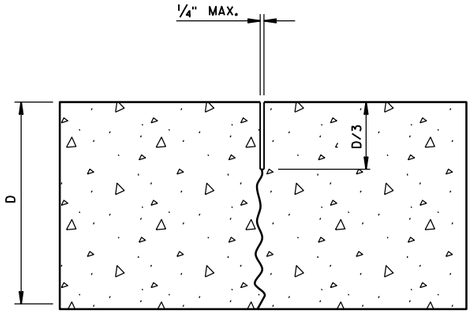
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

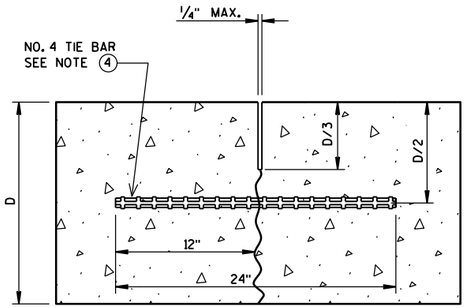
S.D.D. 13 C 18-2b

6

S.D.D. 13 C 18-2b



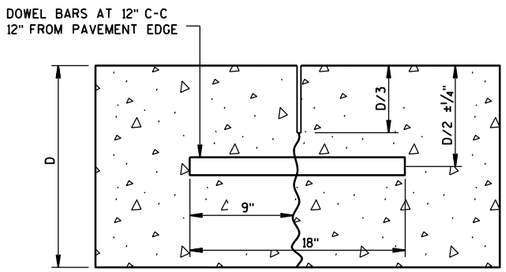
UNDOWELED-TRANSVERSE



TIED LONGITUDINAL

GENERAL NOTES

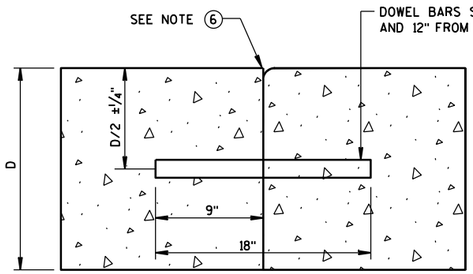
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATE THE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO 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.



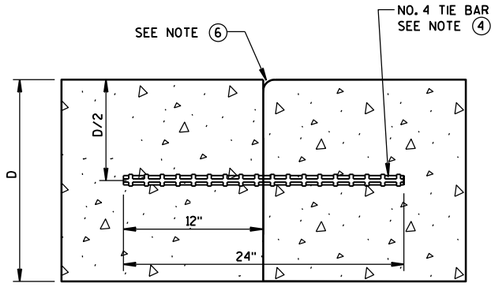
DOWELED-TRANSVERSE

CONTRACTION JOINTS

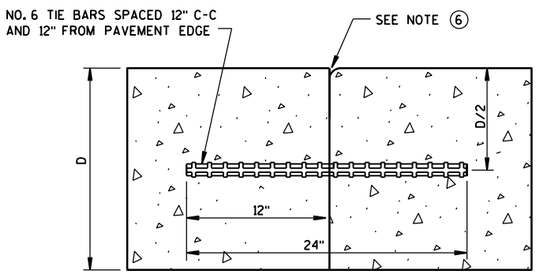
SEE NOTE (2)



DOWELED TRANSVERSE

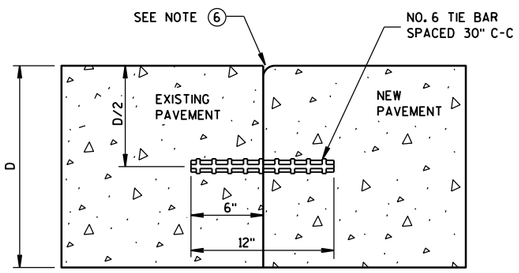


TIED LONGITUDINAL



TIED TRANSVERSE

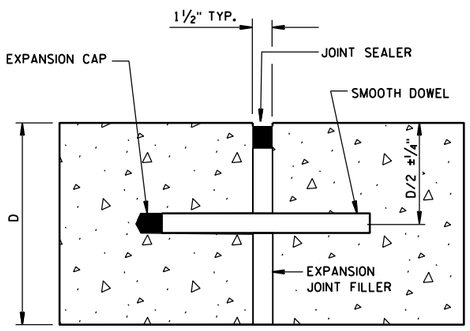
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



TIED LONGITUDINAL TO EXISTING

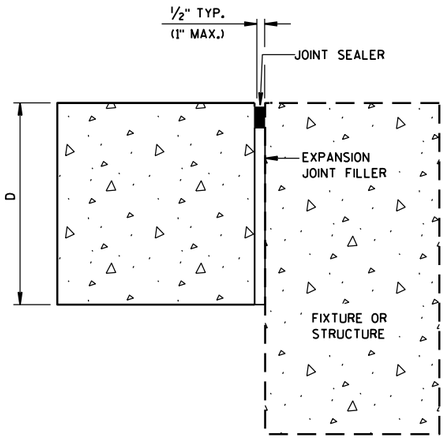
CONSTRUCTION JOINTS

SEE NOTE (5)



DOWELED-TRANSVERSE

SEE NOTE (1)



UNTIED-LONGITUDINAL

EXPANSION JOINTS

CONCRETE PAVEMENT
JOINT TYPES

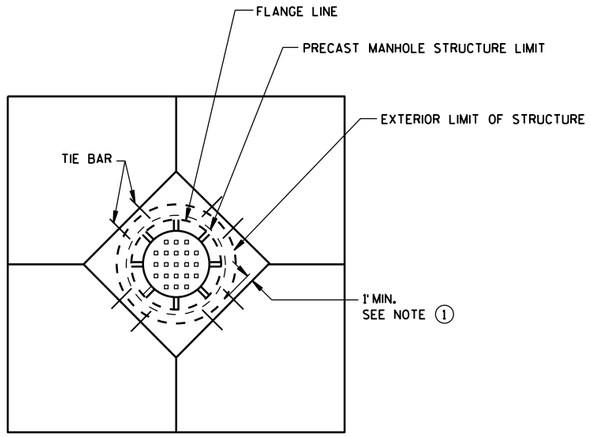
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

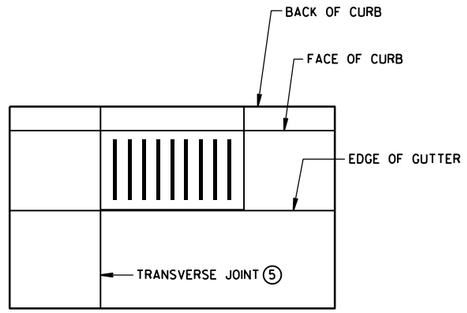
S.D.D. 13 C 18-2c

6

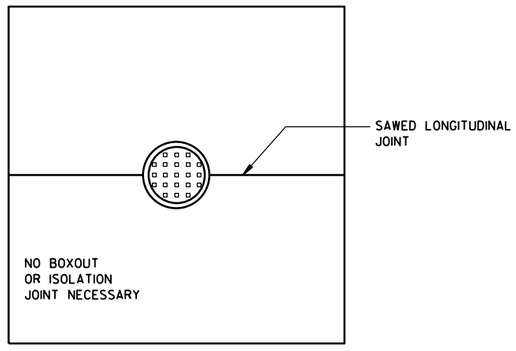
S.D.D. 13 C 18-2c



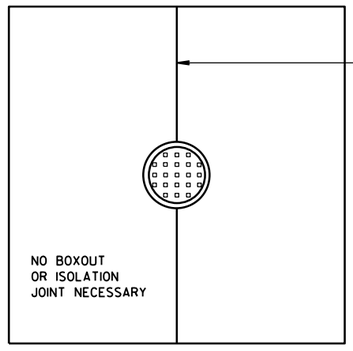
DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS



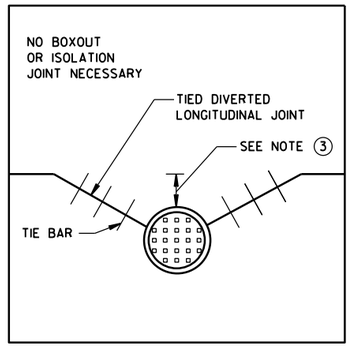
INLET WITH TRANSVERSE JOINT



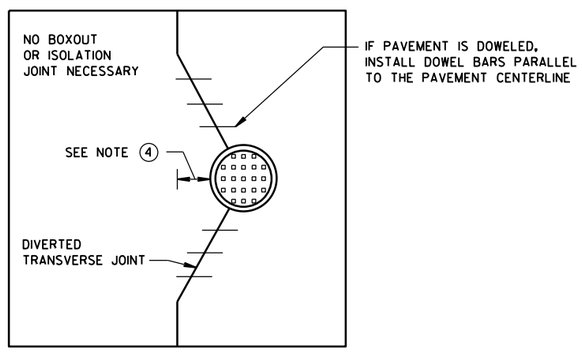
MANHOLE WITH LONGITUDINAL JOINT



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 2 FEET OR LESS, DIVERT THE LONGITUDIAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.

(4) IF DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.

(5) ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.

CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5-3-2013
DATE

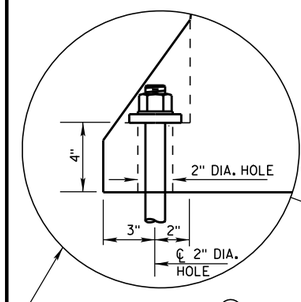
/S/ Deb Bischoff
PAVEMENT POLICY & DE

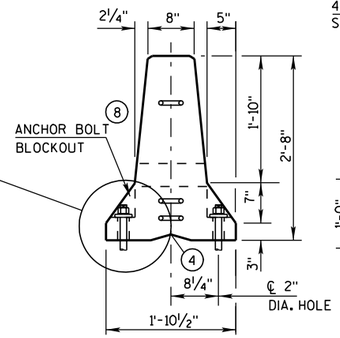
NEER

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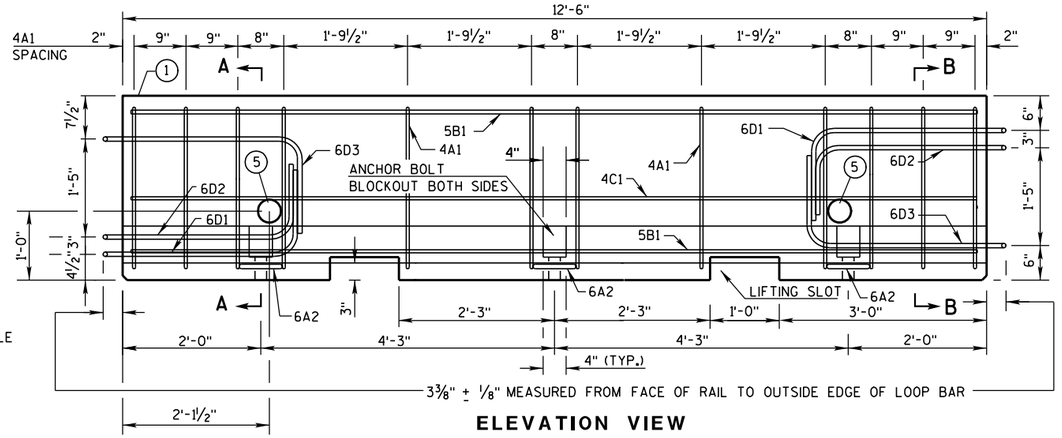
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S.D.D. 13 C 18-2d

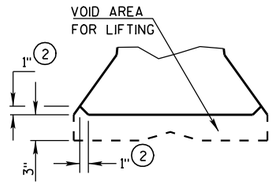




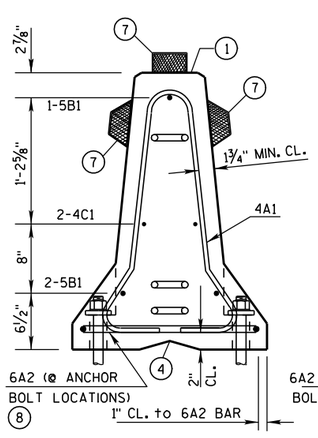
END VIEW



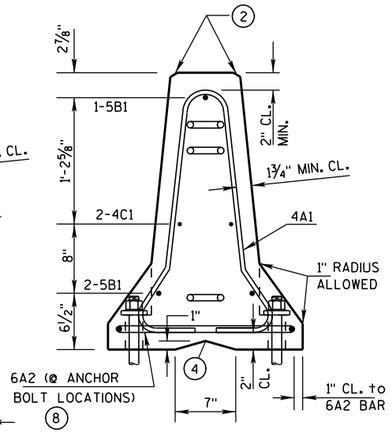
ELEVATION VIEW



DETAIL "B"
LIFTING SLOT DETAIL



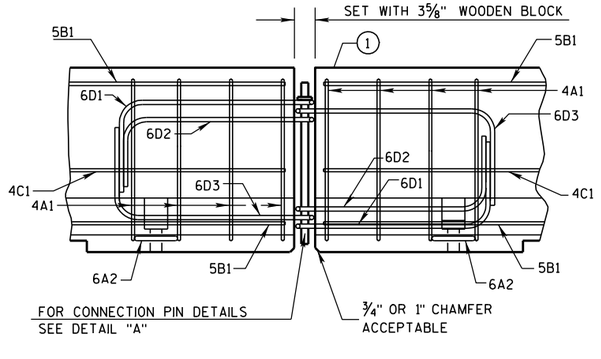
SECTION A-A
(STIRRUP PLACEMENT)



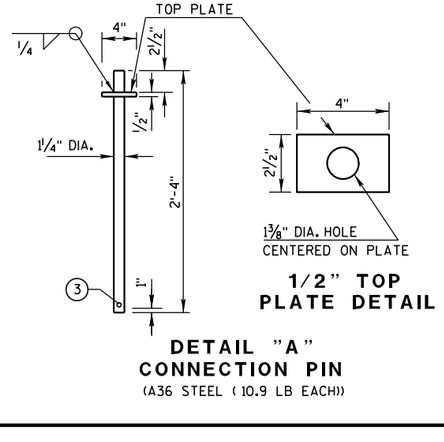
SECTION B-B
(STIRRUP PLACEMENT)

PLAN VIEW

DETAILS OF BARRIER SECTION

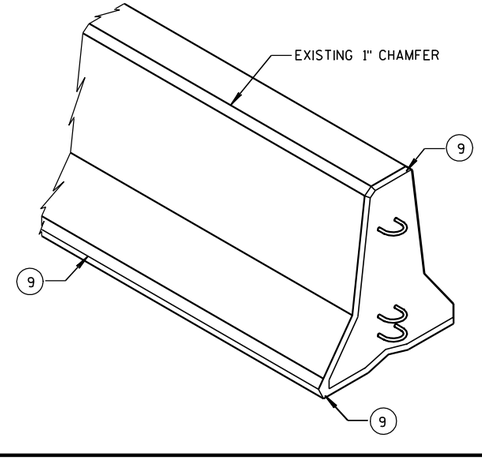


DETAILS OF BARRIER CONNECTION



1/2" TOP PLATE DETAIL

DETAIL "A"
CONNECTION PIN
(A36 STEEL (10.9 LB EACH))



GENERAL NOTES

THESE GENERAL NOTES APPLY TO SHEETS 14B7-13(a) THRU 14B7-13(h).

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.

INSTALL MECHANICAL OR EPOXY ANCHORS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MANUFACTURER'S INFORMATION TO PROJECT ENGINEER.

(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) 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.

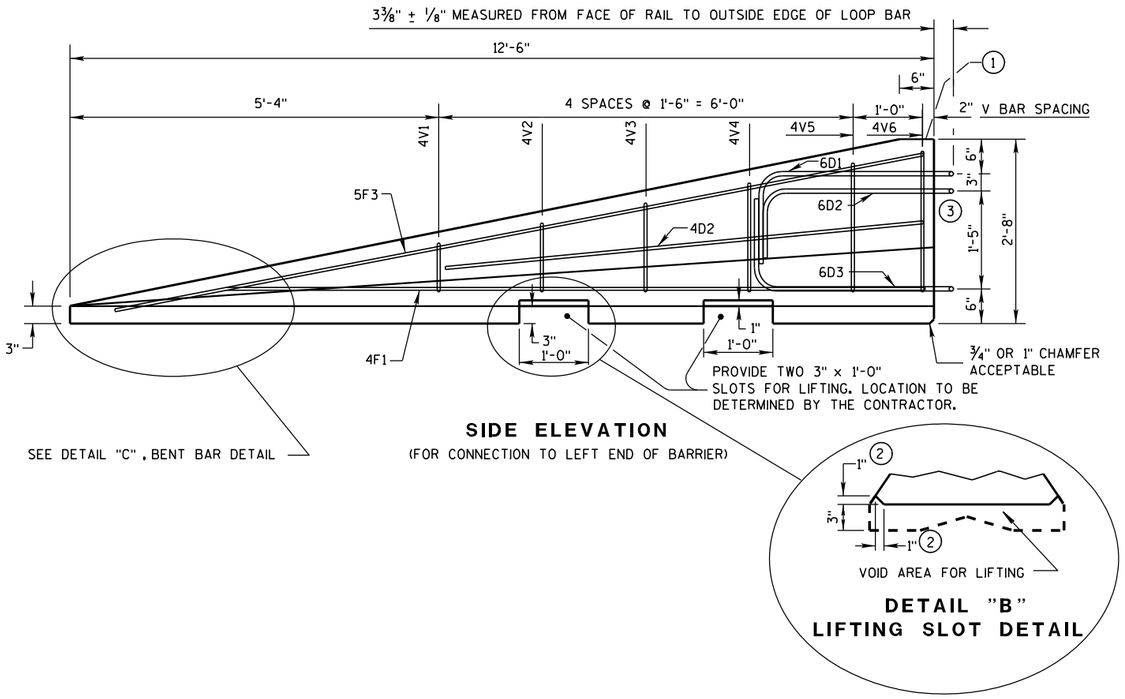
(9) 1" CHAMFER OPTIONAL.

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO...

6

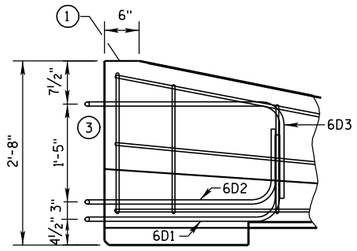
S.D.D. 14 B 7-13a



SIDE ELEVATION

(FOR CONNECTION TO LEFT END OF BARRIER)

DETAIL "B"
LIFTING SLOT DETAIL

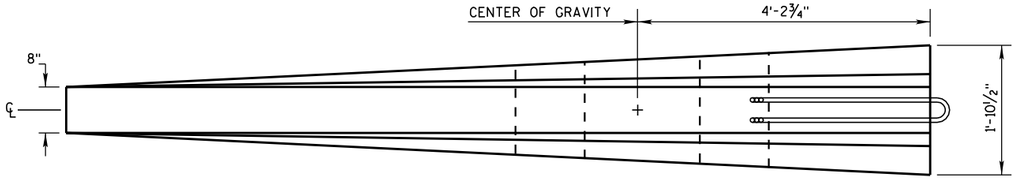


SIDE ELEVATION

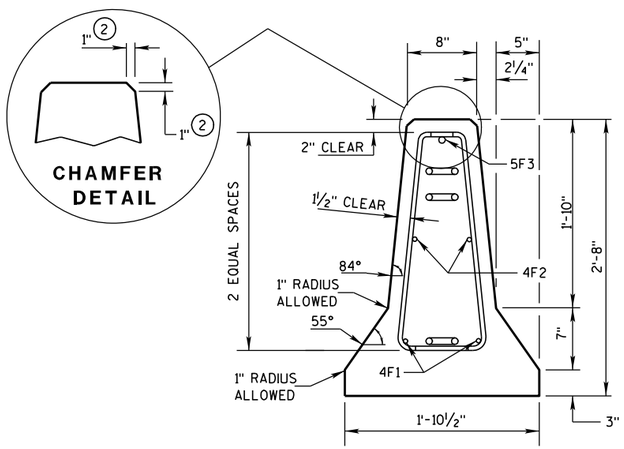
LOOP BAR ASSEMBLY INVERTED
FOR OPPOSITE END.
(FOR CONNECTION TO RIGHT END OF BARRIER)

GENERAL NOTES

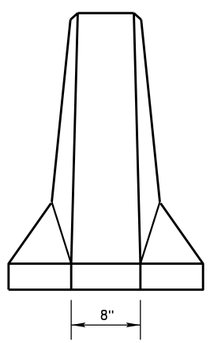
1. MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
   a. TYPE WICBTP
   b. MANUFACTURER
   c. DATE MANUFACTURED (MONTH AND YEAR)
2. 1" CHAMFER TO PREVENT SPALLING.
3. NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.



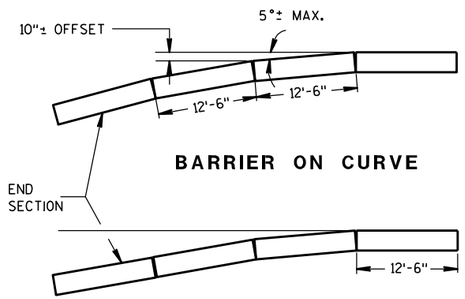
PLAN VIEW



END SECTION



FRONT ELEVATION



BARRIER ON CURVE

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

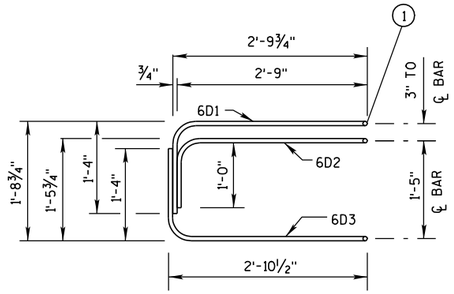
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S.D.D. 14 B 7-13b

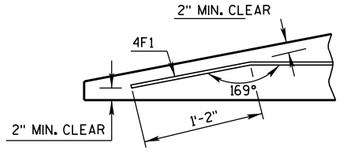
BARRIER TAPER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER TAPER SECTION)

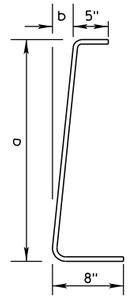
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4V1	4	2	1'-11"
4V2	4	2	2'-2"
4V3	4	2	2'-6"
4V4	4	2	2'-9"
4V5	4	2	3'-2"
4V6	4	2	3'-4"
4F1	4	2	12'-0"
4F2	4	2	7'-6"
5F3	5	1	11'-9"
LOOP ASSEMBLY			
6D1	6	1	8'-5"
6D2	6	1	7'-7"
6D3	6	1	8'-6"



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

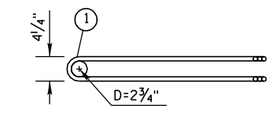
GENERAL NOTES

(1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

BARRIER SECTION BILL OF MATERIALS

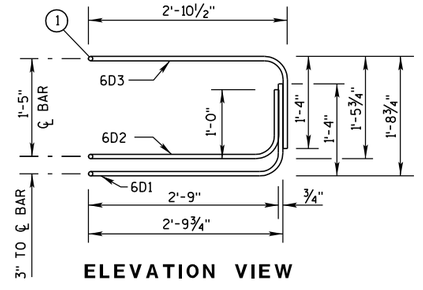
(PER 12'-6" BARRIER SECTION)

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"

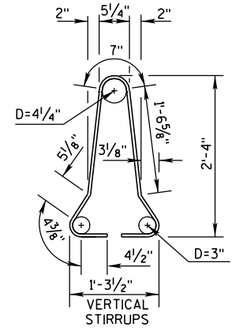


PLAN VIEW
LOOP BAR ASSEMBLY
(MARKED END SHOWN, INVERT FOR OTHER END)

6A2



ELEVATION VIEW



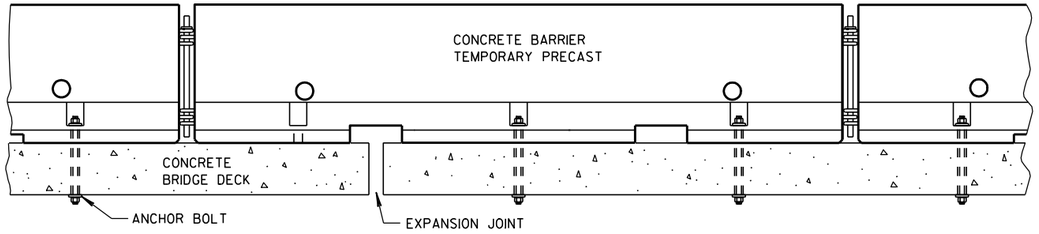
4A1

BARRIER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

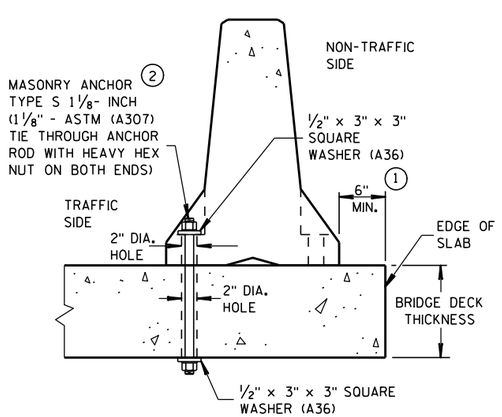
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
S.D.D. 14 B 7-13c



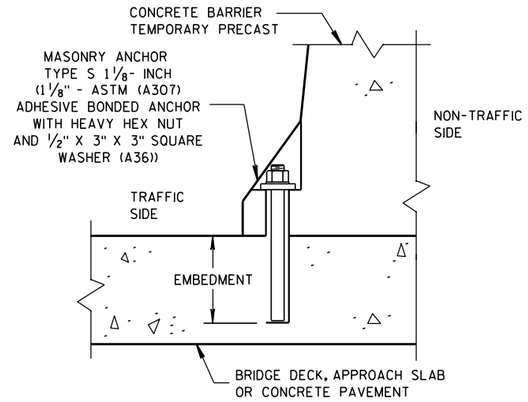
TREATMENT AT BRIDGE DECK EXPANSION JOINTS

(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 INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR CONCRETE PAVEMENT ②

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)

GENERAL NOTES

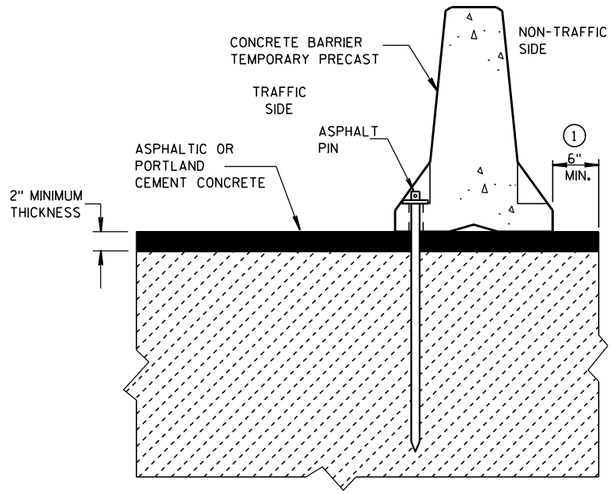
① CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" SHALL BE ANCHORED IF:
THE DISTANCE TO A 2 FOOT OR GREATER DROPOFF THAT IS STEEPER THAN 3H : 1V, FOR EXAMPLE THE EDGE OF A BRIDGE DECK OR A DROPOFF AT THE EDGE OF PAVEMENT, IS LESS THAN 4 FEET FROM THE SIDE OF THE BARRIER CLOSEST TO THE DROPOFF AND THE POSTED 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.

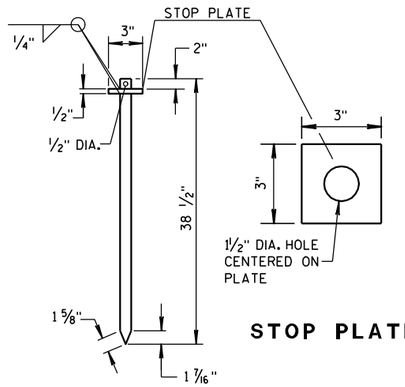
WITH THE APPROVAL OF THE ENGINEER, REMOVABLE ADHESIVE BONDED (EPOXY) ANCHOR BOLT INSTALLATION MAY BE USED IN LIEU OF THROUGH BOLTED ANCHOR INSTALLATION. THE ADHESIVE BONDED ANCHOR BOLT MUST BE REMOVABLE. USE ASTM (A307) MASONRY ANCHORS TYPE S 1⅛-INCH, EMBEDDED TO A DEPTH SUFFICIENT TO DEVELOP THE ULTIMATE 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.



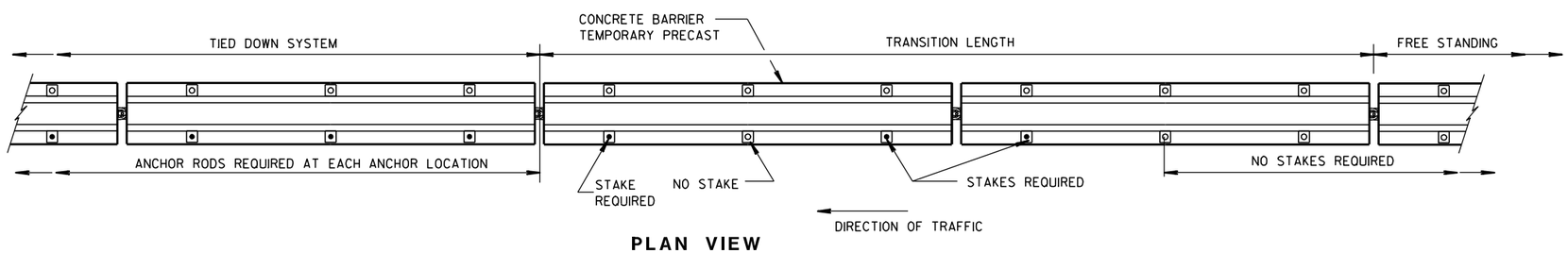
STAKE DOWN INSTALLATION FOR ASPHALTIC OR PORTLAND CEMENT CONCRETE SURFACE

(STAKING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST)



STOP PLATE

ASPHALT PIN
(ASTM A36 STEEL)



PLAN VIEW

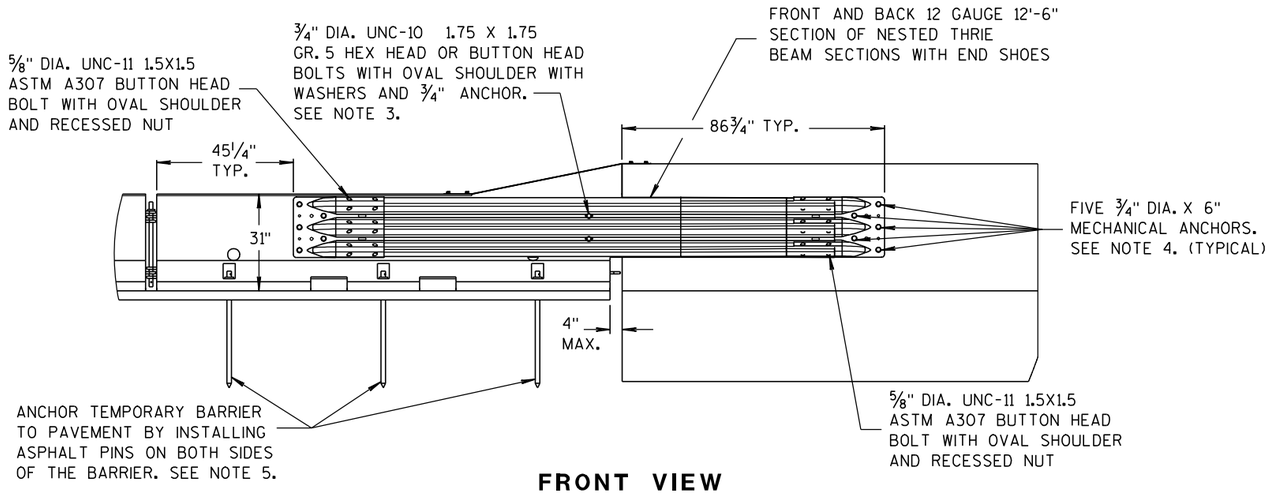
FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

(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 TRANSPO...

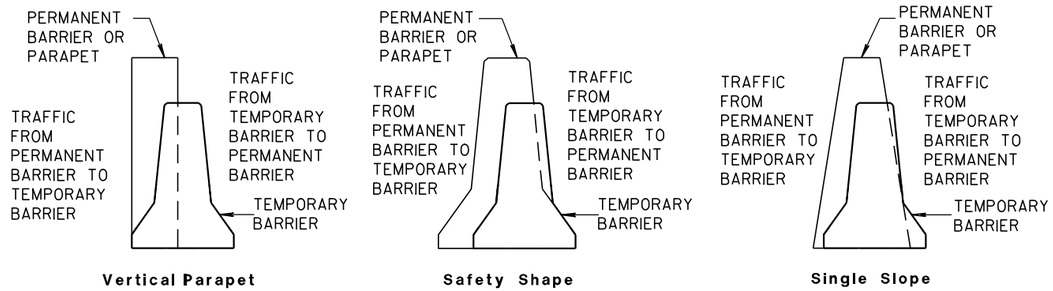
6
S.D.D. 14 B 7-13d



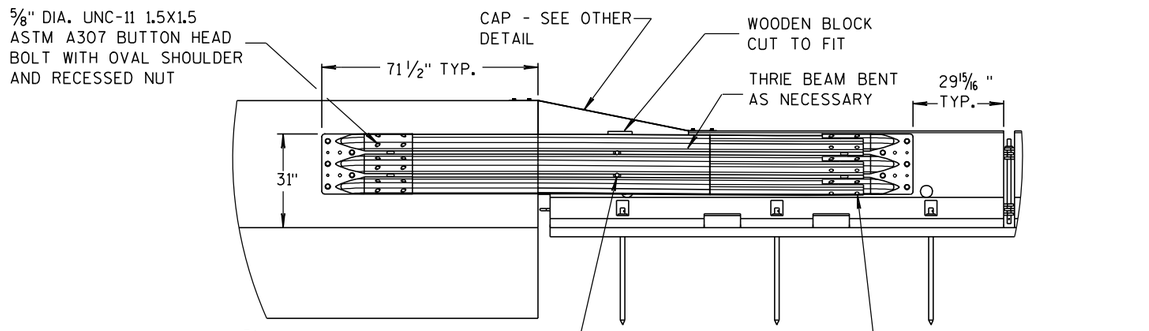
FRONT VIEW

NOTES

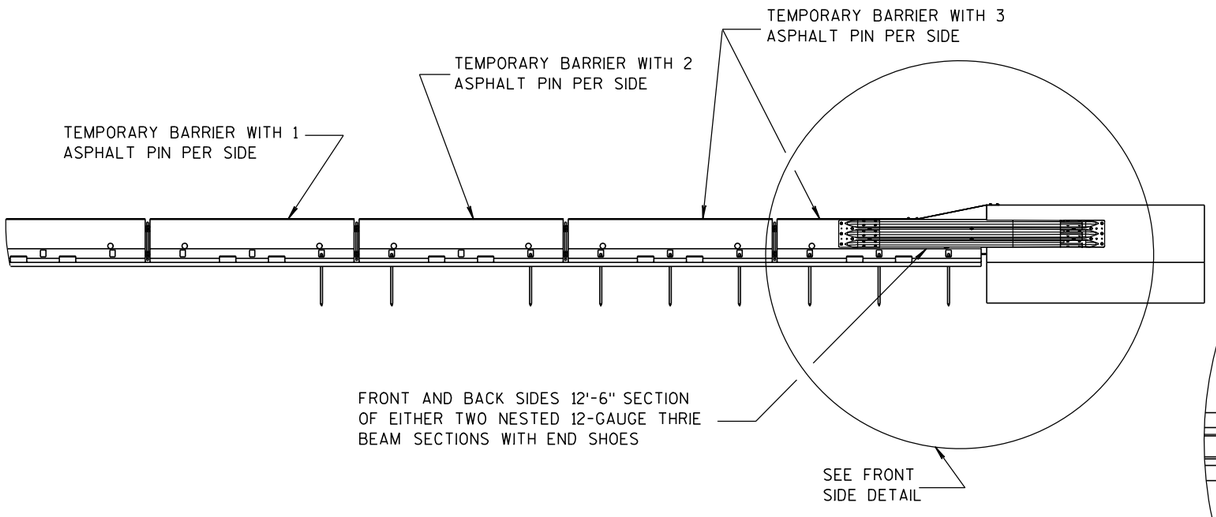
1. CAP END PLATE PLACED FLUSH WITH UPSTREAM END OF PERMANENT BARRIER OR PARAPET.
2. THRIE BEAM PIECES ARE OFFSET 15 1/4" TO PREVENT INTERFERENCE FROM THE ANCHORS ON OPPOSING SIDES.
3. MINIMUM MECHANICAL OR EPOXY ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 9.48 KIPS AND ULTIMATE SHEAR LOAD 10.48 KIPS.
4. MINIMUM MECHANICAL OR EPOXY ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 17.9 KIPS AND ULTIMATE SHEAR LOAD 21.96 KIPS.
5. MAY BE USED ON CONCRETE OR ASPHALT PAVEMENTS. ASPHALT OPTION SHOWN. FOR CONCRETE OPTION SEE OTHER DETAILS.
6. MINIMUM MECHANICAL OR EPOXY ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 12.14 KIPS AND ULTIMATE SHEAR LOAD 17.5 KIPS.



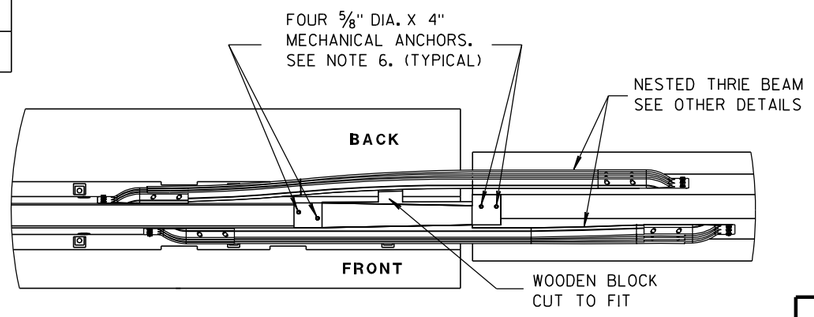
TEMPORARY BARRIER PLACEMENT FOR BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM



BACK VIEW



FRONT VIEW



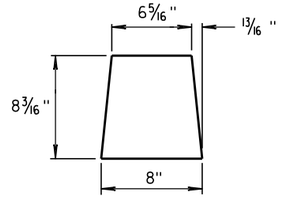
PLAN VIEW

BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM

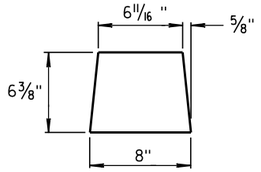
CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

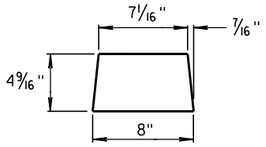
6
S.D.D. 14 B 7-13e



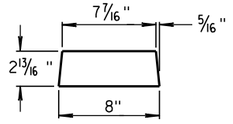
GUSSET 1



GUSSET 2

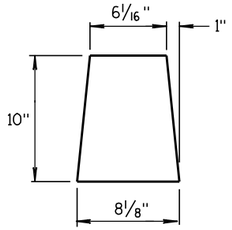


GUSSET 3

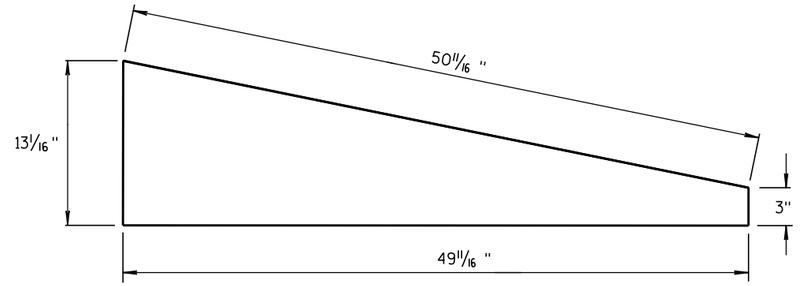


GUSSET 4

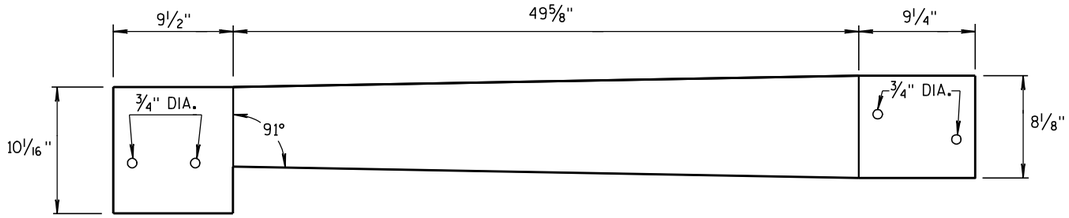
GUSSETS

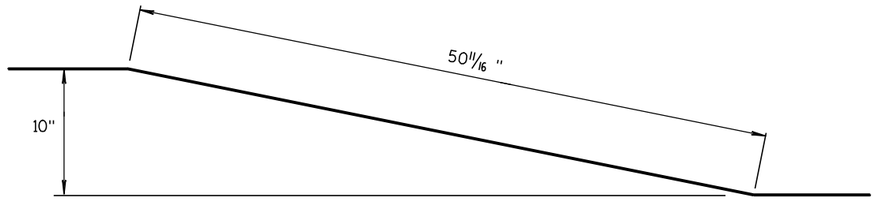


END PLATE

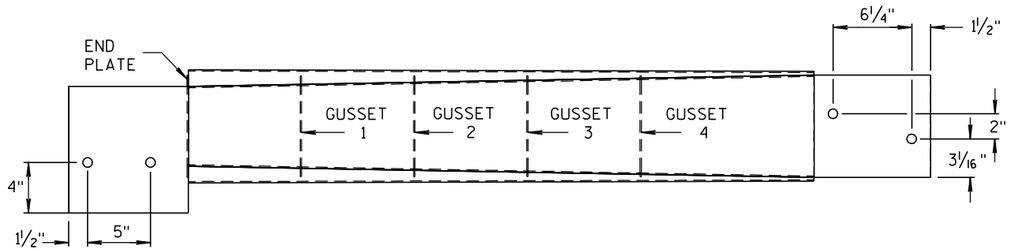


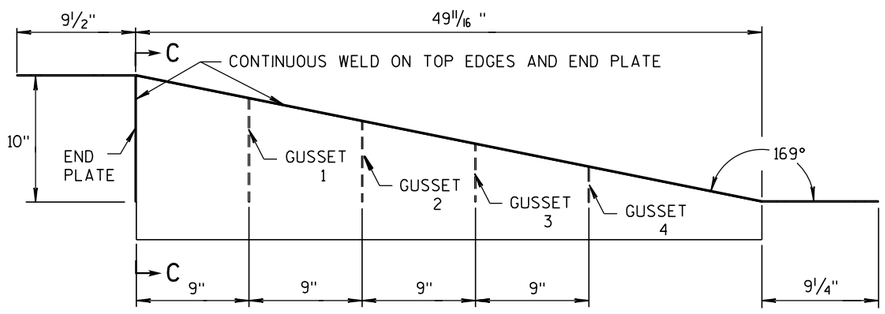
SIDE PLATE

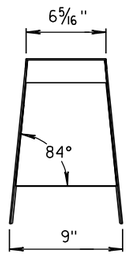




TOP PLATE







SECTION C-C

NOTES

1. FOUR GUSSETS AND END PLATE ARE STITCH WELDED ON THREE SIDES.
2. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE, AND GUSSETS.

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

SIDE, TOP AND END PLATES FOR CAP FROM TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

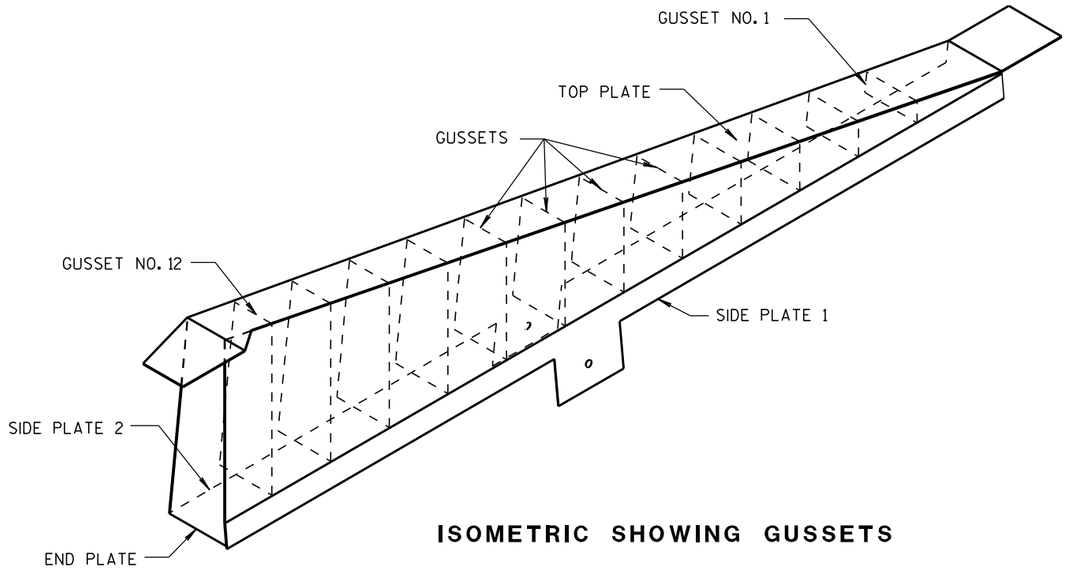
SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 GALVANIZED STEEL.

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

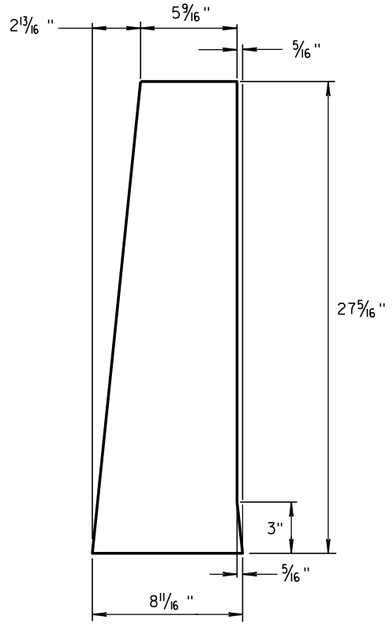
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 14 B 7-13f

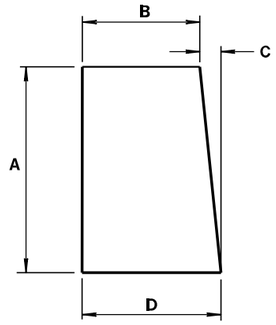


ISOMETRIC SHOWING GUSSETS



END PLATE

1/8" STEEL PLATE



GUSSETS 1 - 12

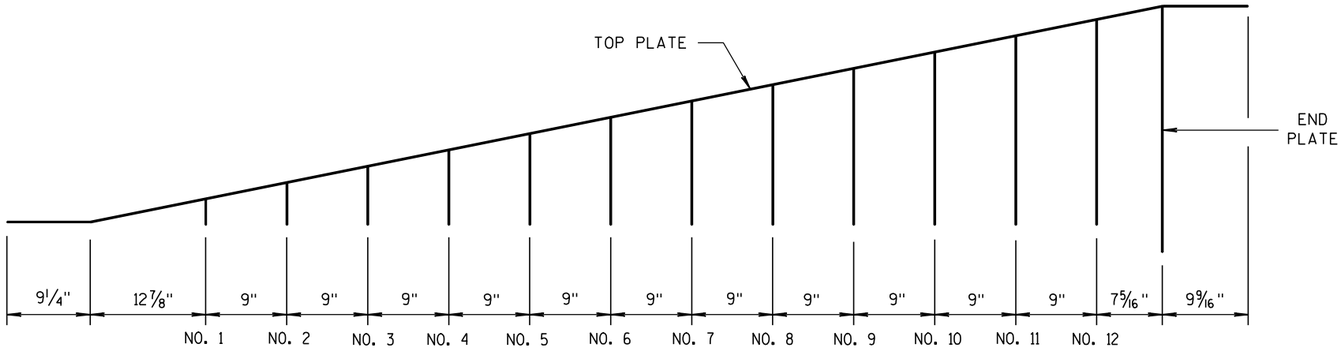
ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS

GUSSET NO.	A	B	C	D
1	2 7/8"	7 3/4"	1/4"	8
2	4 11/16 "	7 9/16 "	1/2"	8
3	6 1/2"	7 3/8"	11/16 "	8 1/16 "
4	8 5/16 "	7 3/16 "	7/8"	8 1/16 "
5	10 1/8"	7"	1 1/16 "	8 1/16 "
6	11 15/16 "	6 13/16 "	1 1/4"	8 1/16 "
7	13 3/4"	6 5/8"	1 7/16 "	8 1/16 "
8	15 9/16 "	6 7/16 "	1 9/16 "	8 1/16 "
9	17 3/8"	6 1/4"	1 13/16 "	8 1/16 "
10	19 3/16 "	6 1/16 "	1 15/16 "	8 1/16 "
11	21"	5 7/8"	2 3/16 "	8 1/16 "
12	22 13/16 "	5 11/16 "	2 5/16 "	8 1/16 "

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.



GUSSET LOCATION

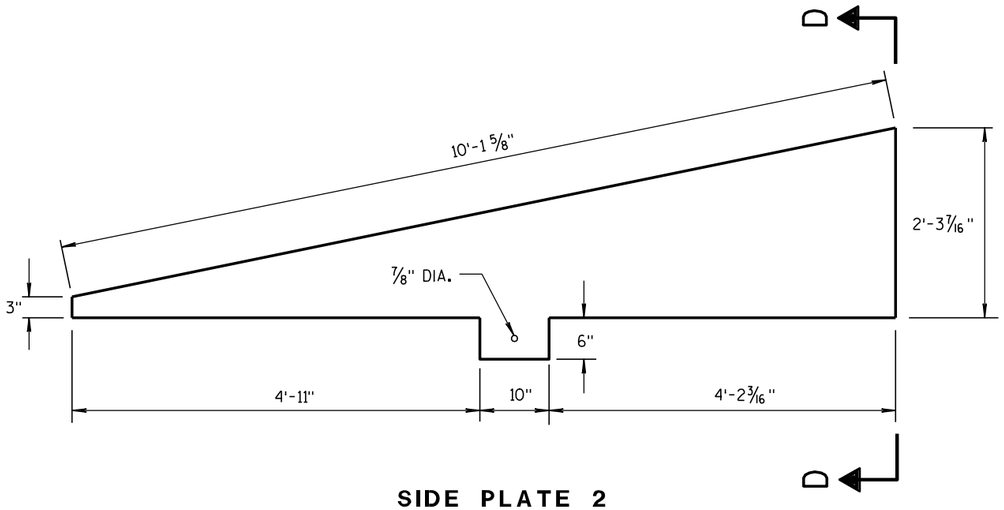
CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

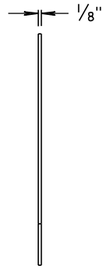
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

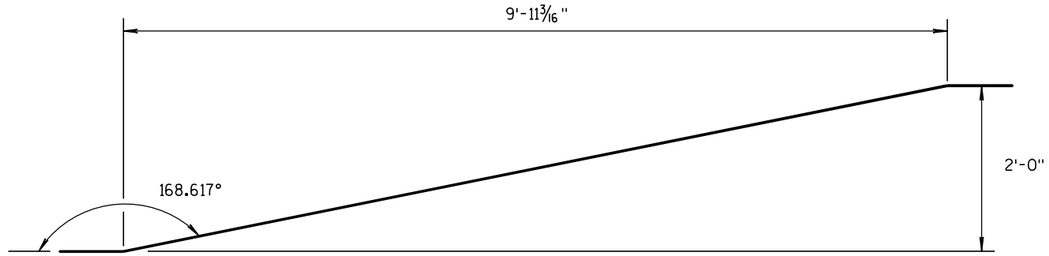
S.D.D. 14 B 7-13g



SIDE PLATE 2

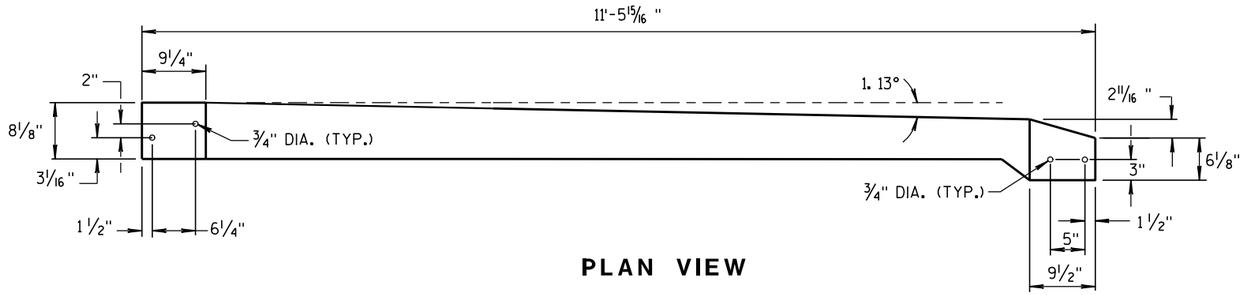


END VIEW



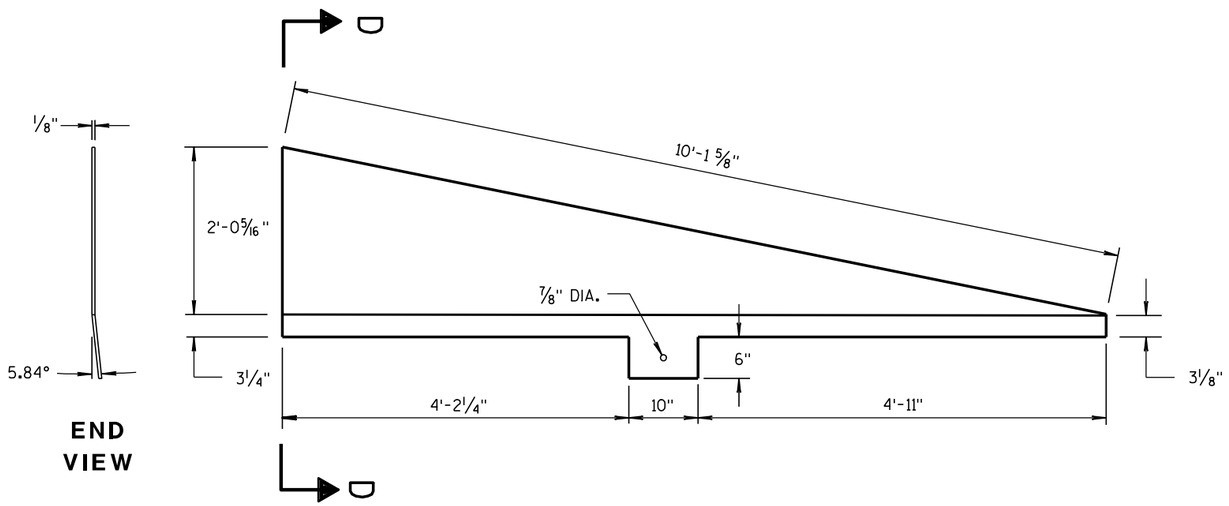
SIDE VIEW

TOP PLATE



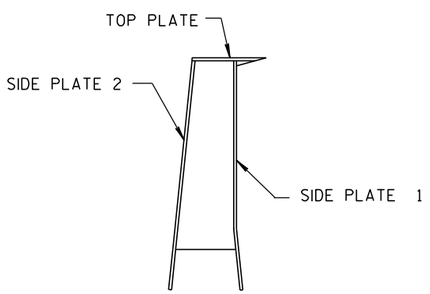
PLAN VIEW

TOP PLATE



END VIEW

SIDE PLATE 1



SECTION D-D

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

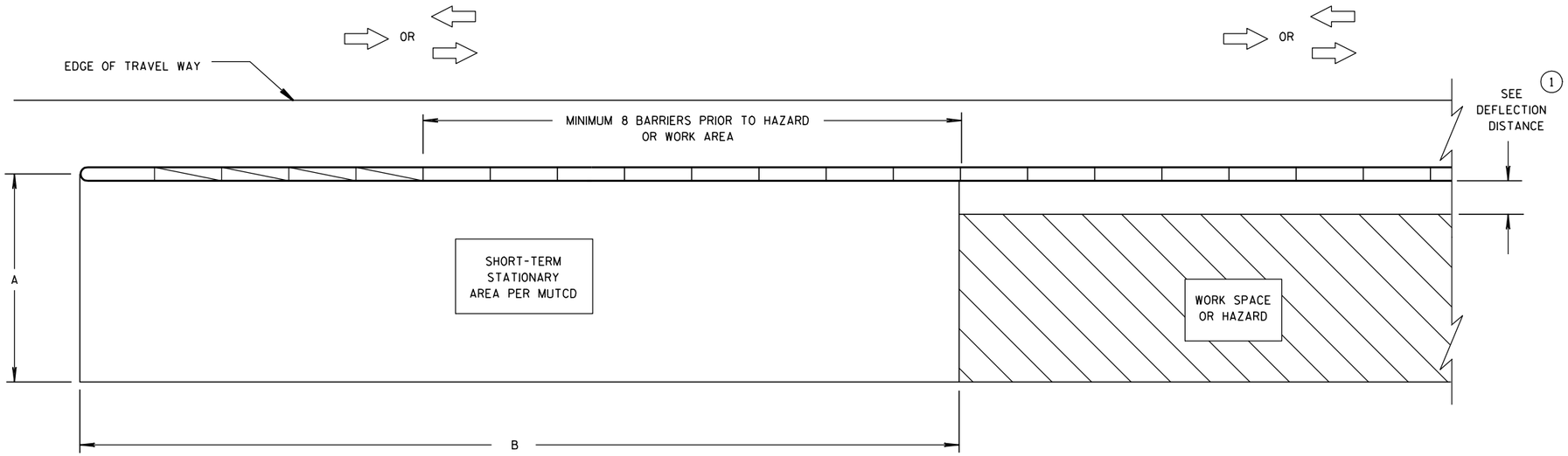
APPROVED
8/31/2012 — DATE
/S/ Jerry H. ---- — ROADWAY STANDARDS ENGINEER
202 — ENT
FHWA

6

S.D.D. 14 B 7-13h

6

S.D.D. 14 B 7-13h



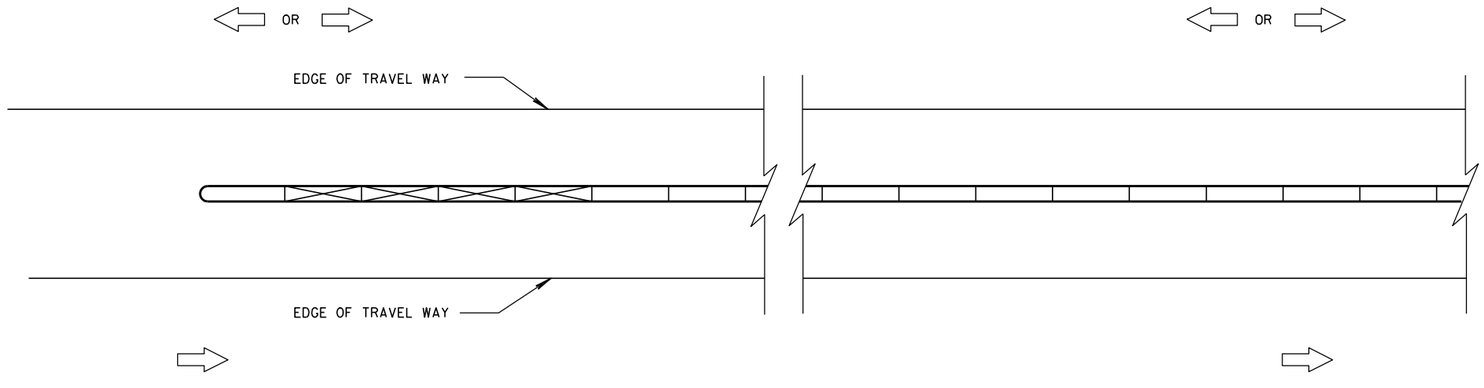
CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON ONE SIDE OF BARRIER

DIMENSION A TABLE (2)

FACILITY	POSTED SPEED MPH	DIMENSION A	
		MIN. FT	MAX. FT
FREEWAY/EXPRESSWAY	ALL	15	20
NON-FREEWAY/EXPRESSWAY	GREATER THAN OR EQUAL TO 45	10	15
NON-FREEWAY/EXPRESSWAY	LESS THAN 45	8	10
AADT LESS THAN 1,500	ALL	8	10

DIMENSION B TABLE (2)

POSTED SPEEDS MPH	DIMENSION B FT
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645



CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON BOTH SIDES OF BARRIER

LEGEND

- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

GENERAL NOTES

SEE STANDARD DETAIL DRAWING 14B7 FOR MORE INFORMATION.

DETAILS PROVIDE A GENERAL LAYOUT OF TEMPORARY CONCRETE BARRIER, CRASH CUSHIONS, SAND BARREL ARRAYS AND TIE DOWN TRANSITIONS. DETAILS PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

ADDITIONAL TEMPORARY BARRIER MAY BE REQUIRED TO PROTECT TRAVELING PUBLIC FROM HAZARDS, CONTRACTOR'S OPERATIONS OR TO CONTROL TRAFFIC.

TEMPORARY BARRIER MAY BE REQUIRED TO BE ANCHORED TO PAVEMENT OR BRIDGE DECK.

FOR DETAILS ON CRASH CUSHION OR SAND BARREL ARRAYS SEE OTHER SECTIONS OF THE PLAN AND MANUFACTURE'S DETAILS.

SLOPES LEADING TO TEMPORARY BARRIER, CRASH CUSHION OR SAND BARREL ARRAY ARE 10:1 OR LESS.

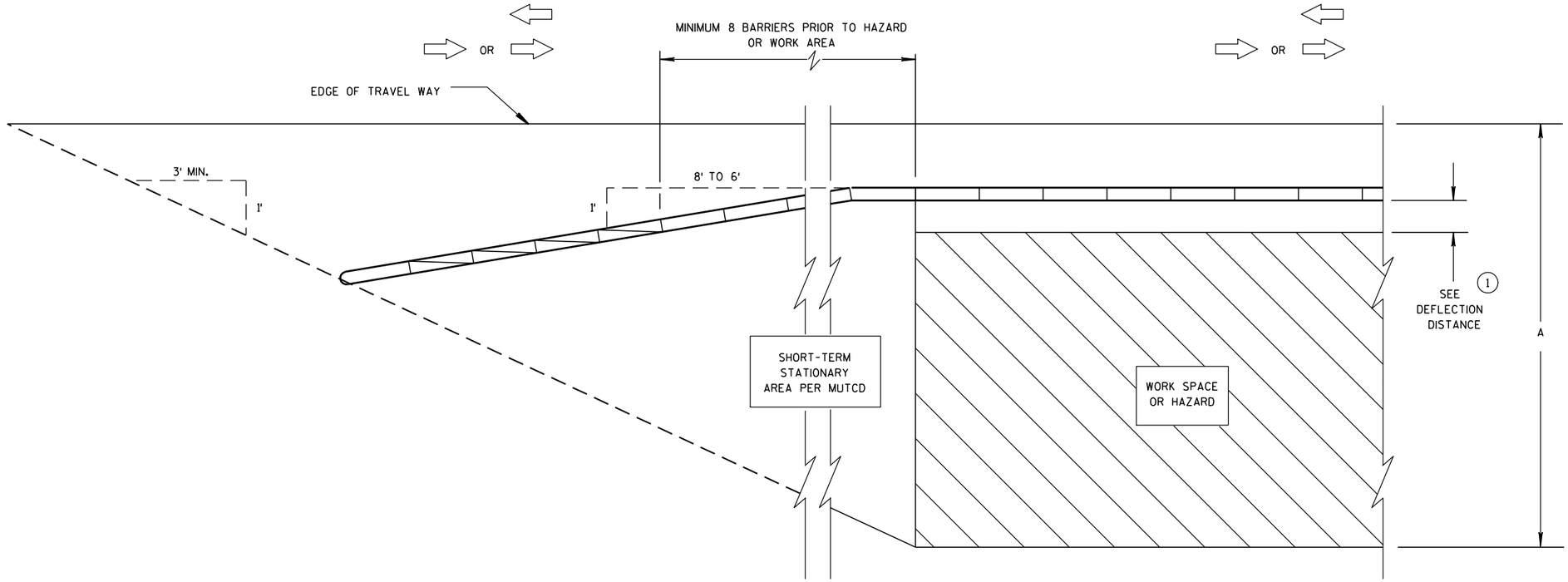
(1) FOR DEFLECTION INFORMATION SEE STANDARD DETAIL DRAWING 14B7.

(2) VALUES PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

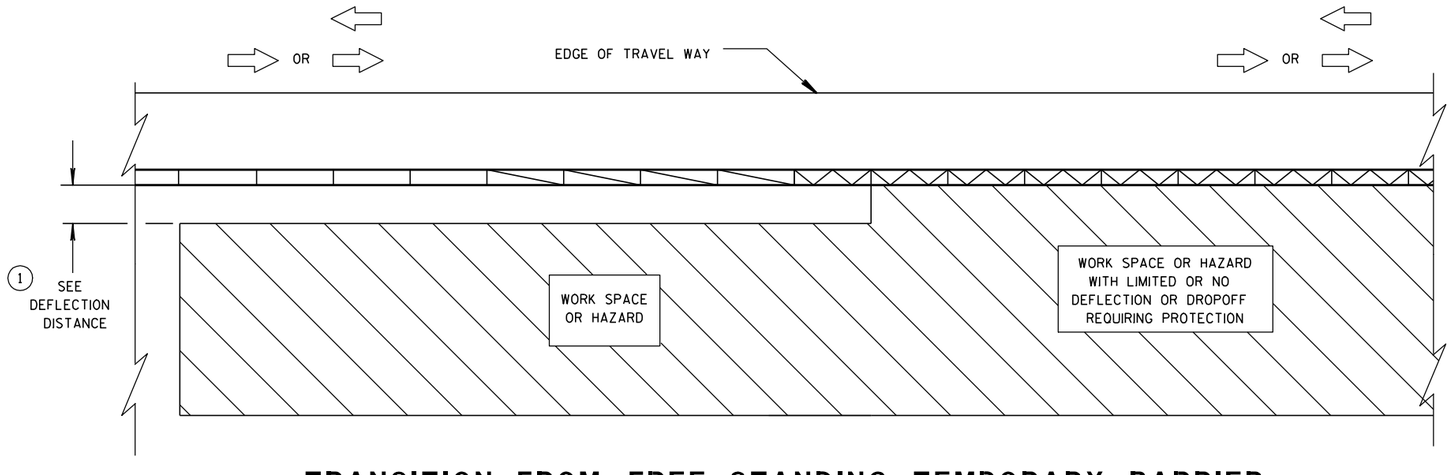
CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
S.D.D. 14 B 8-1a



CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON ONE SIDE - FLARED INSTALLATION



TRANSITION FROM FREE STANDING TEMPORARY BARRIER TO ANCHORED BARRIER

LEGEND

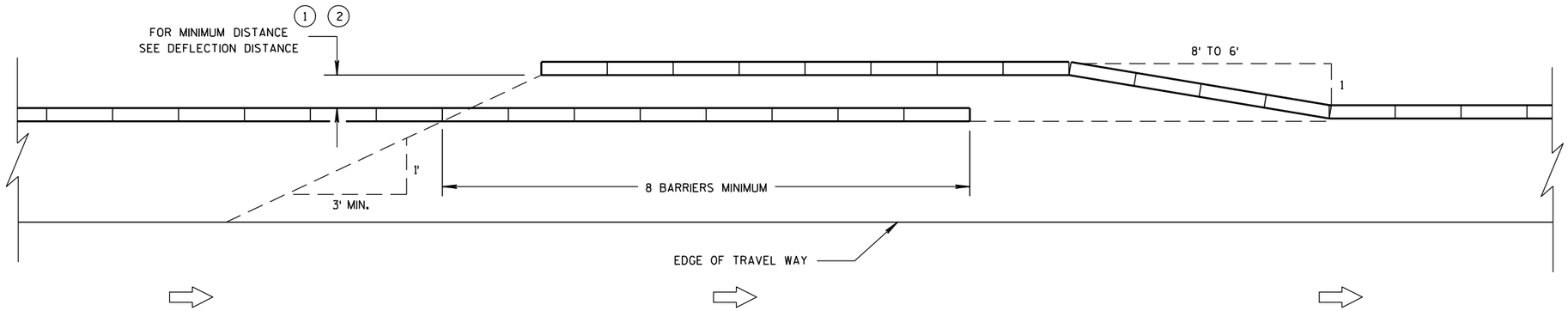
- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

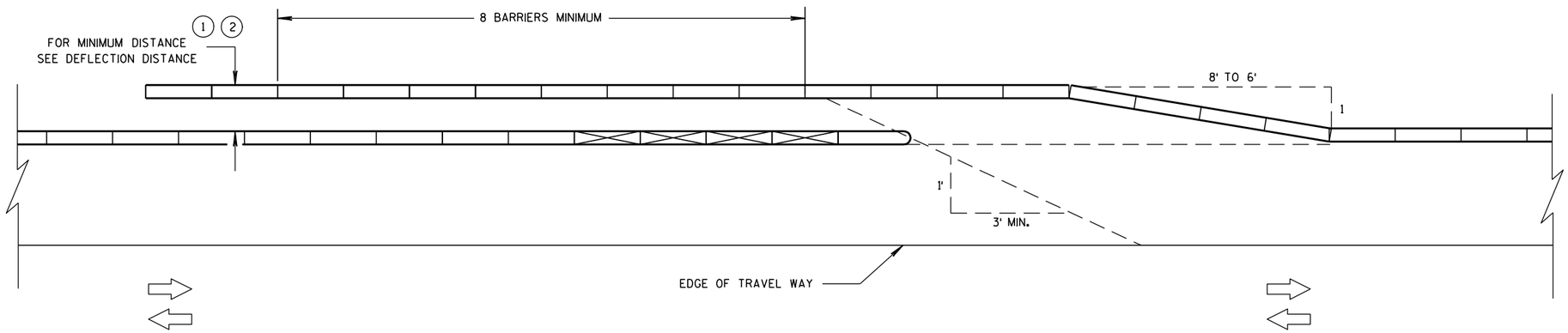
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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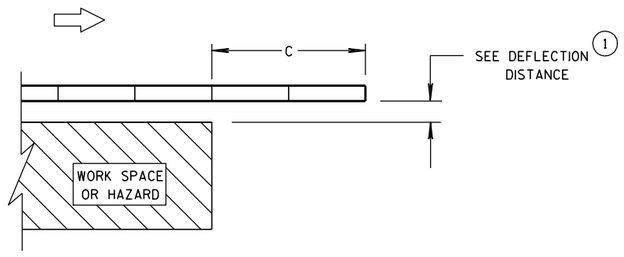
S.D.D. 14 B 8-1b



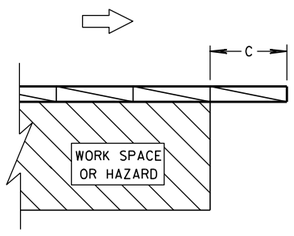
TEMPORARY BARRIER OVERLAP - ONE-WAY TRAFFIC



TEMPORARY BARRIER OVERLAP - TWO-WAY TRAFFIC



ENDING TEMPORARY BARRIER DOWNSTREAM - UNANCHORED



ENDING TEMPORARY BARRIER DOWNSTREAM - ANCHORED

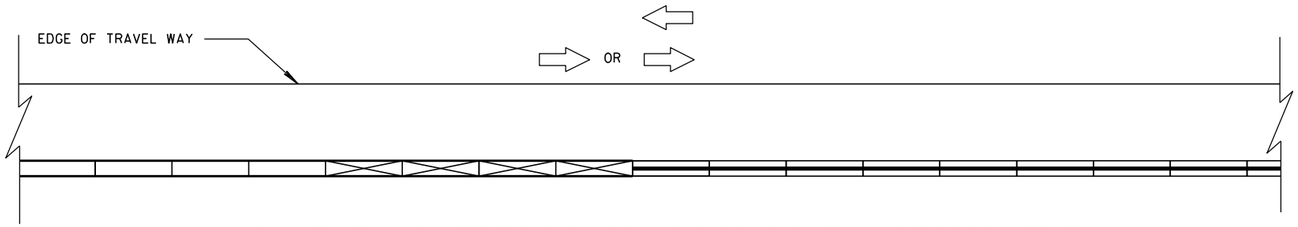
LEGEND

- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

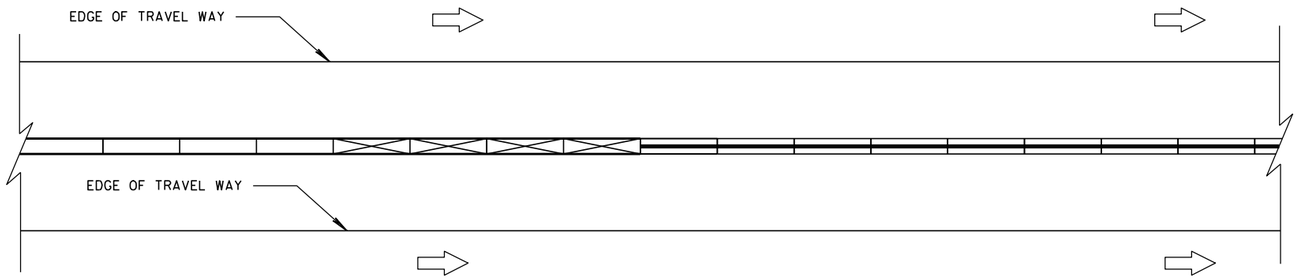
CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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S.D.D. 14 B 8-1c



CONNECTING TEMPORARY BARRIER TO PERMANENT CONCRETE BARRIER-TRAFFIC ON ONE SIDE



CONNECTING TEMPORARY BARRIER TO PERMANENT CONCRETE BARRIER-TRAFFIC ON BOTH SIDES

LEGEND

DIRECTION OF TRAVEL

CRASH CUSHION OR SAND BARREL ARRAY

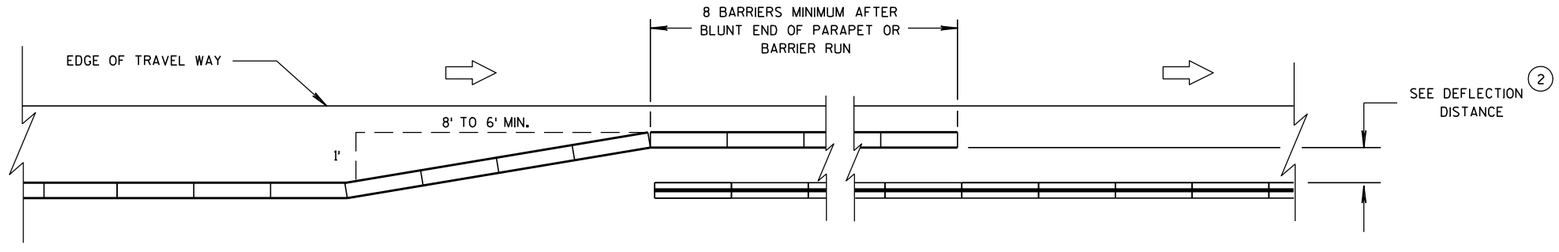
SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS

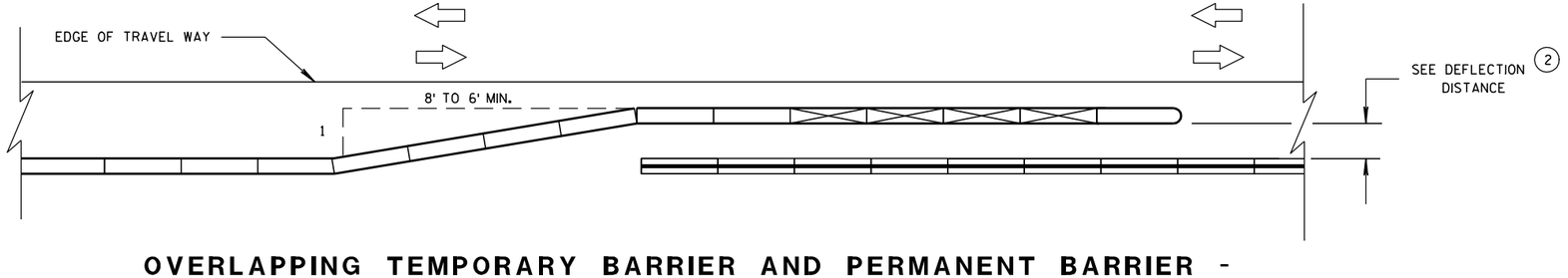
3 PINS PLACED ON TRAFFIC SIDE OF BARRIER

PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET

FREE STANDING TEMPORARY BARRIER



OVERLAPPING TEMPORARY BARRIER AND PERMANENT BARRIER - ONE WAY TRAFFIC



OVERLAPPING TEMPORARY BARRIER AND PERMANENT BARRIER - TWO WAY TRAFFIC

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
S.D.D. 14 B 8-1d

LEGEND

DIRECTION OF TRAVEL

CRASH CUSHION OR SAND BARREL ARRAY

SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS

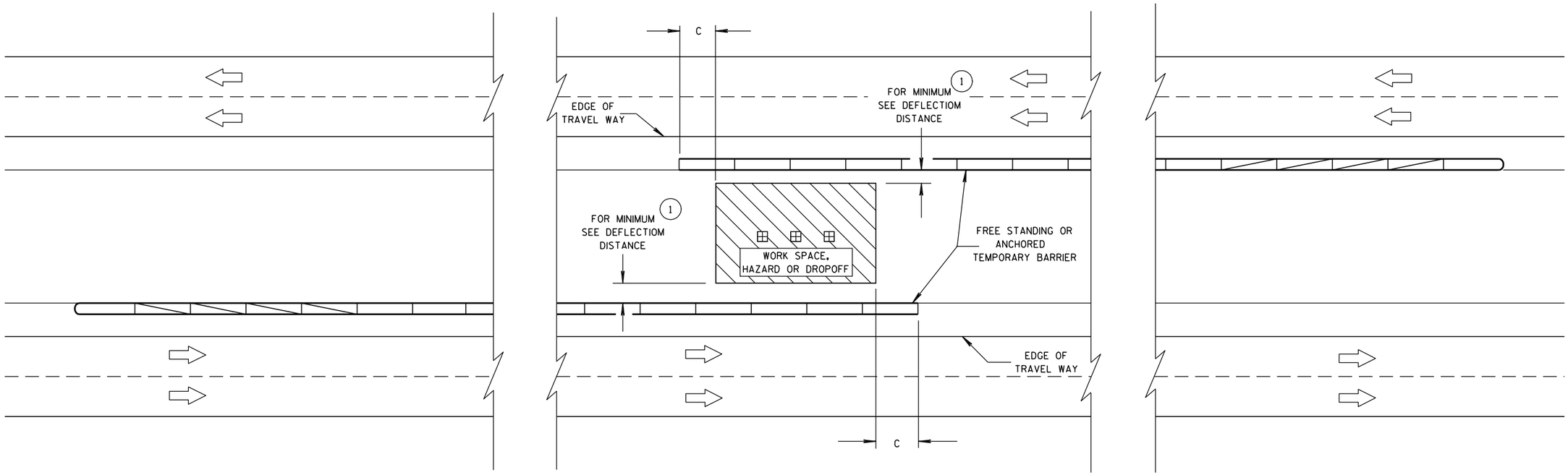
3 PINS PLACED ON TRAFFIC SIDE OF BARRIER

PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET

FREE STANDING TEMPORARY BARRIER

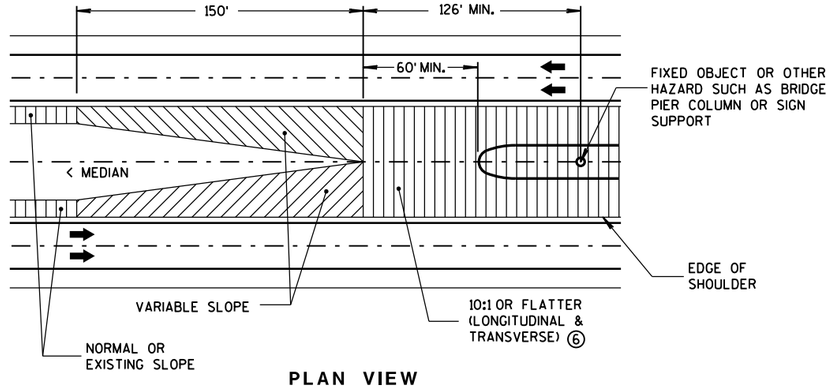
DIMENSION C TABLE (2)

AVAILABLE DEFLECTION DISTANCE	MINIMUM LENGTH OF BARRIER BEYOND HAZARD FT
GREATER THAN 8'	12.5
LESS THAN OR EQUAL TO 8' BUT GREATER THAN 4'	50
LESS THAN OR EQUAL TO 4'	100



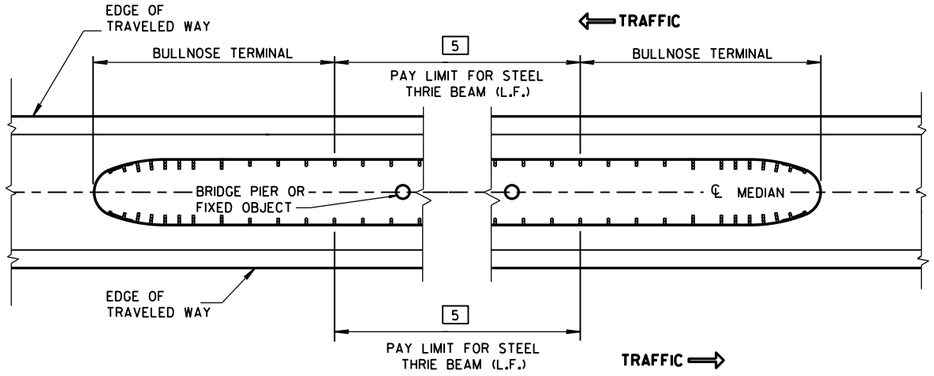
CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
8/31/2012 DATE	/S/ Jerry H. Zogg ROADWAY STANDARDS ENGINNER
FHWA	

6
S.D.D. 14 B 8-1e

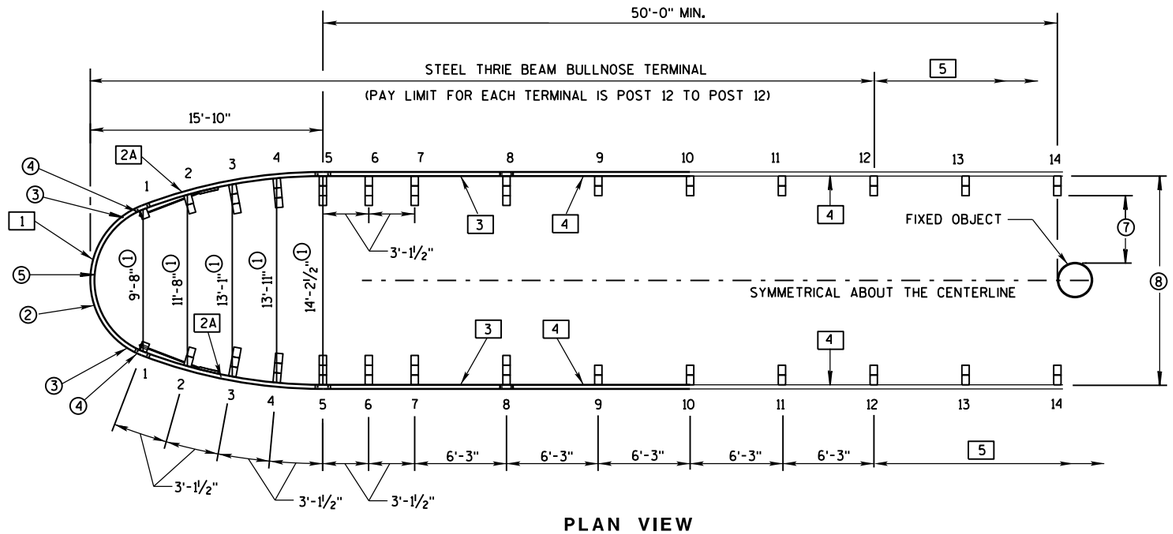


PLAN VIEW

GRADING AT BULLNOSE
(ALL INSTALLATIONS)

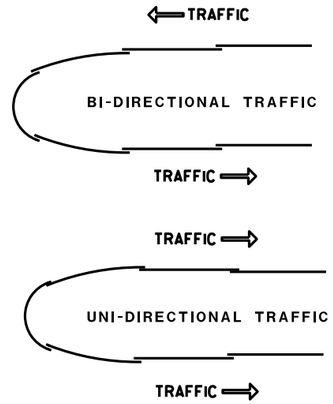


MEDIAN HAZARD PROTECTION PAY LIMITS



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.

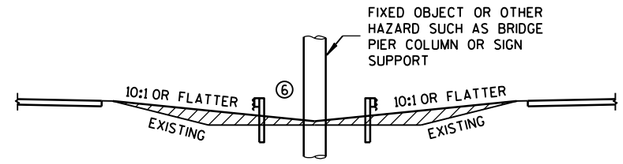
④ NOSE CABLE ANCHOR PLATE (BACKSIDE OF SPLICE).

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.

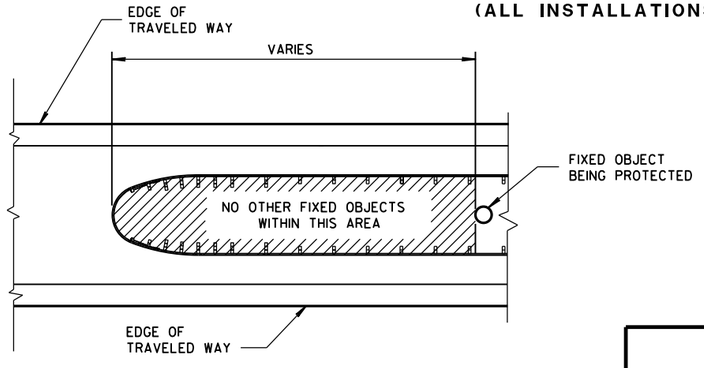
⑥ PROVIDE SUITABLE DRAINAGE WHEN MEDIAN GRADING IMPEDES NORMAL FLOW.

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

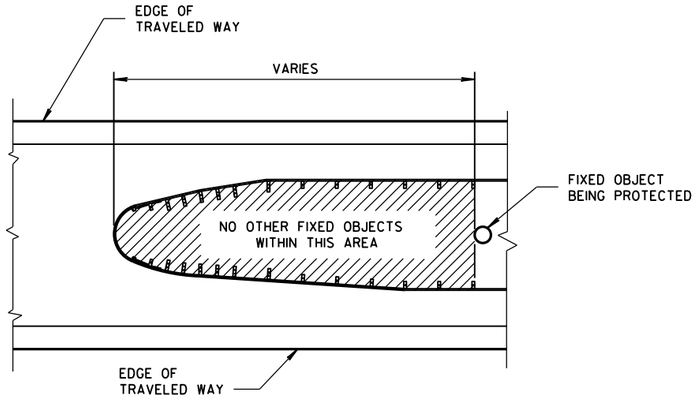
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

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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)

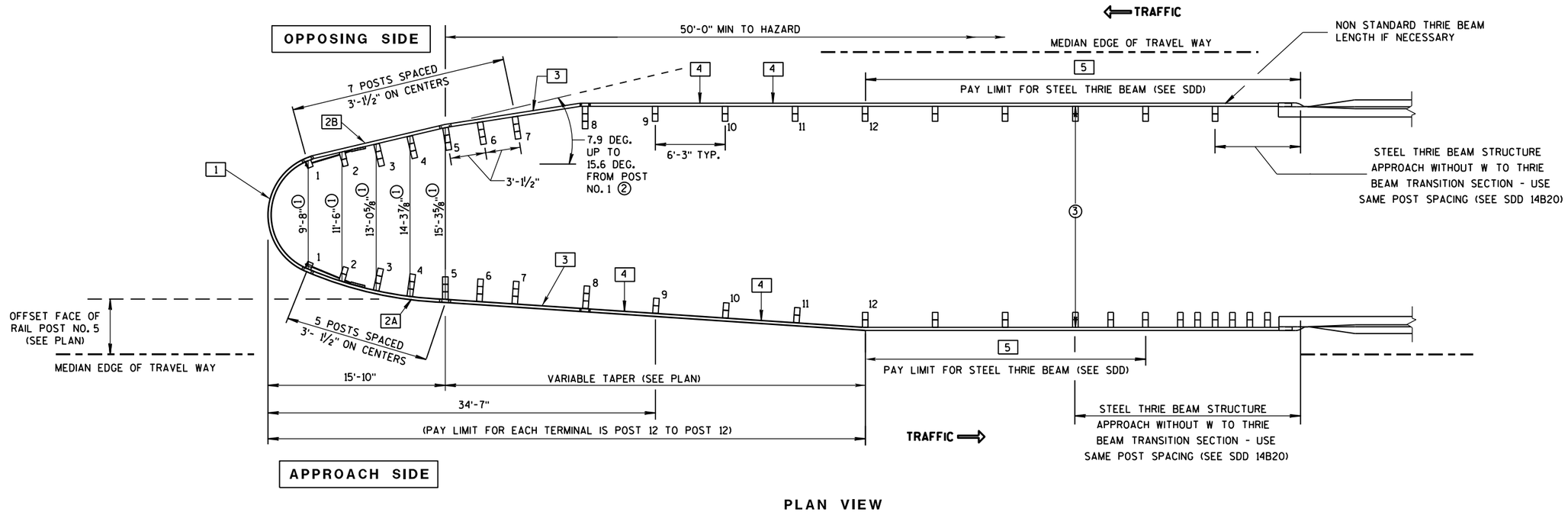
[4] UNBENT STANDARD THRIE-BEAM RAIL NO. 4, (POST 8 TO POST 10 & POST 10 TO POST 12)

[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

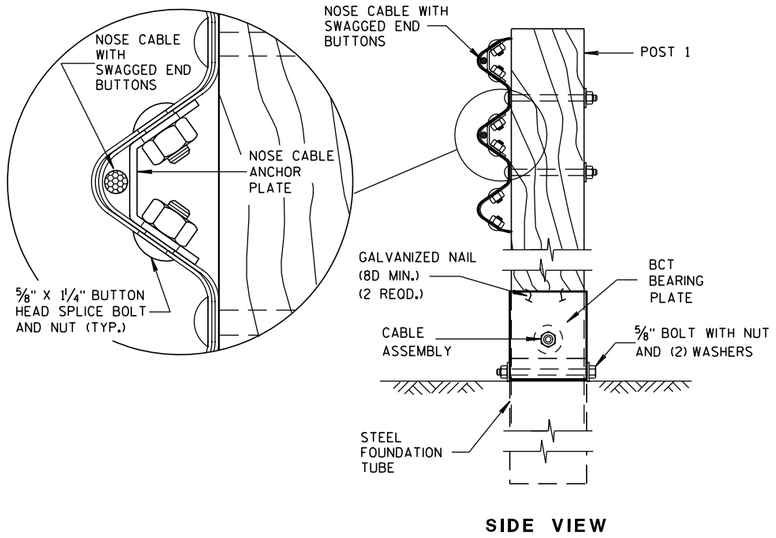
(INSTALLATION AT TWIN BRIDGES WITH BI-DIRECTIONAL TRAFFIC SHOWN)

STEEL THRIE BEAM
BULLNOSE TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

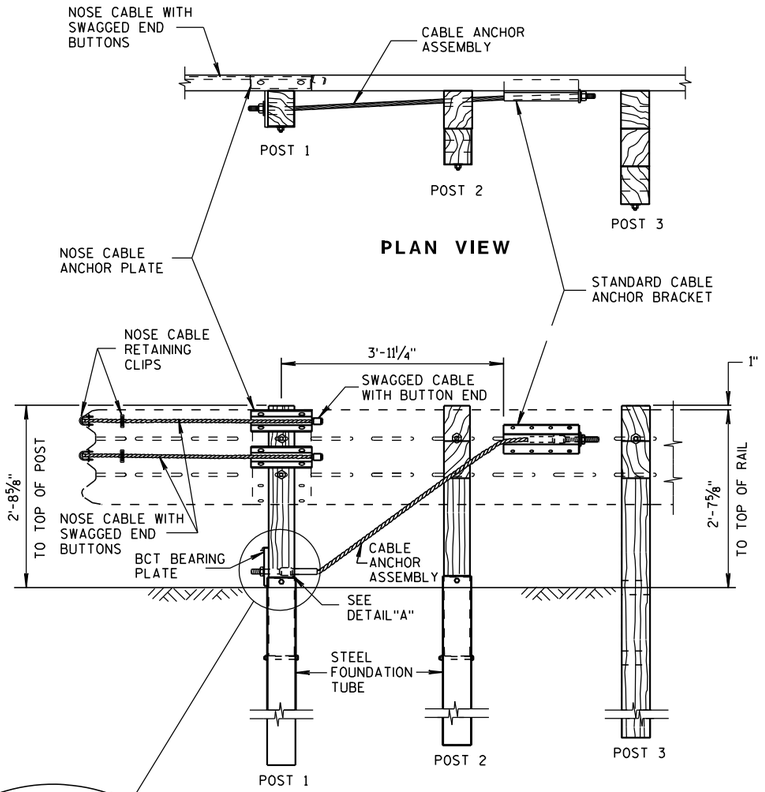
6

S.D.D. 14 B 26-2b



SIDE VIEW

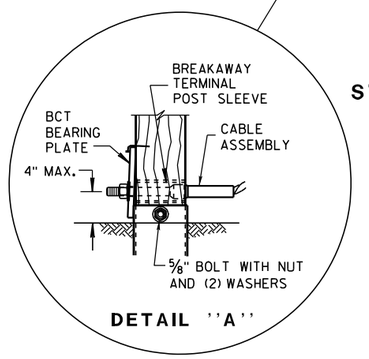
NOSE CABLE ASSEMBLY AT POST NO. 1



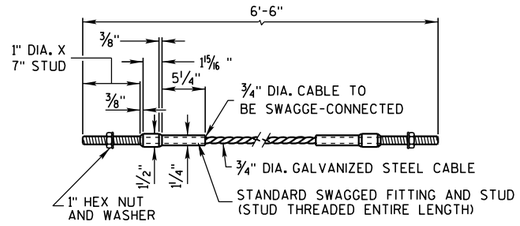
PLAN VIEW

FRONT VIEW

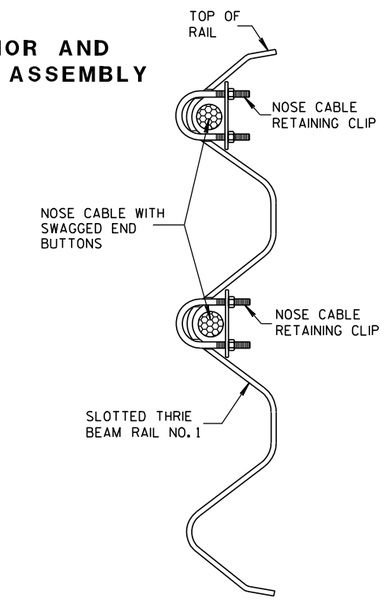
NOSE CABLE ANCHOR AND STANDARD BRACKET ASSEMBLY



DETAIL ''A''



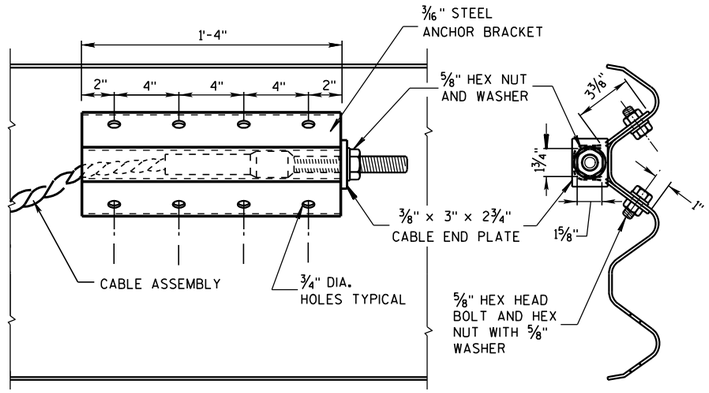
DETAILS OF CABLE ANCHOR ASSEMBLY



PLACEMENT OF NOSE CABLE RETAINING CLIP

GENERAL NOTES

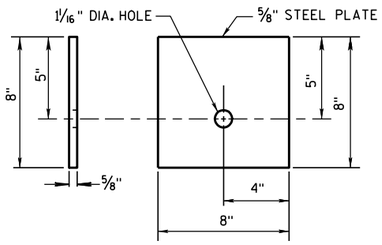
SEE STANDARD DETAIL DRAWINGS 14 B 26a-e.



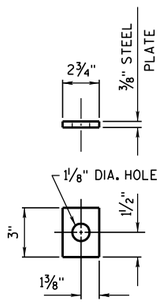
FRONT VIEW

END VIEW

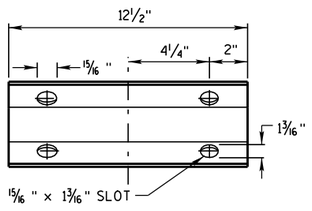
DETAILS OF CABLE ANCHOR BRACKET



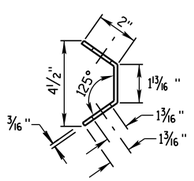
BCT BEARING PLATE



CABLE END PLATE



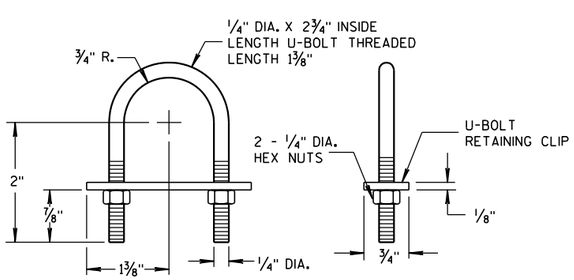
ELEVATION VIEW



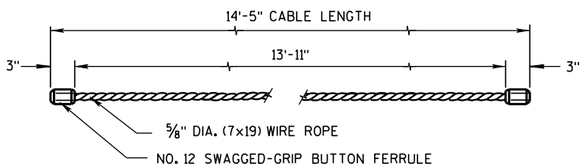
END VIEW

NOSE CABLE ANCHOR PLATE

NOTE: 12 1/2" x 5 13/16" x 3/16" STEEL PLATE (A306)



NOSE CABLE RETAINING CLIP



NOSE CABLE WITH SWAGGED END BUTTONS

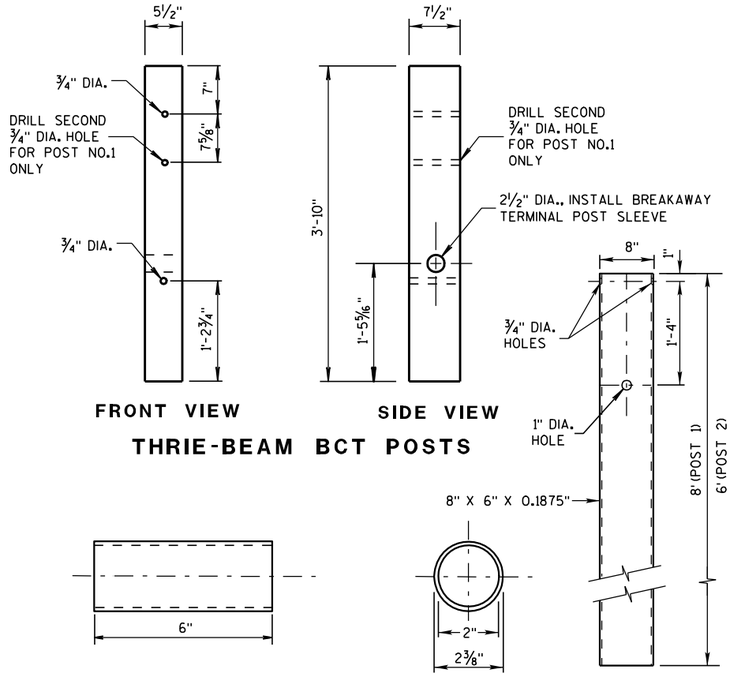
TO PULL OFF SWAGGED GRIP BUTTON FERRULE FROM WIRE ROPE REQUIRES A FORCE EQUAL TO 98% OF THE WIRE ROPE'S BREAKING STRENGHT.

STEEL THRIE BEAM BULLNOSE TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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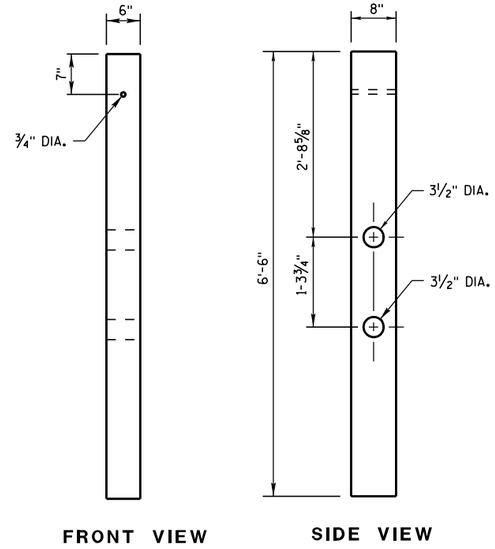
S.D.D. 14 B 26-2c



THRIE-BEAM BCT POSTS

BREAKAWAY TERMINAL POST SLEEVE

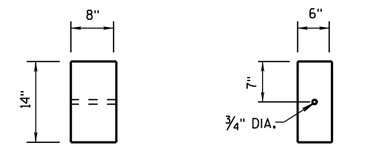
STEEL FOUNDATION TUBE



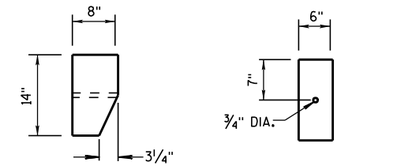
THRIE-BEAM CRT WOOD POSTS

GENERAL NOTES

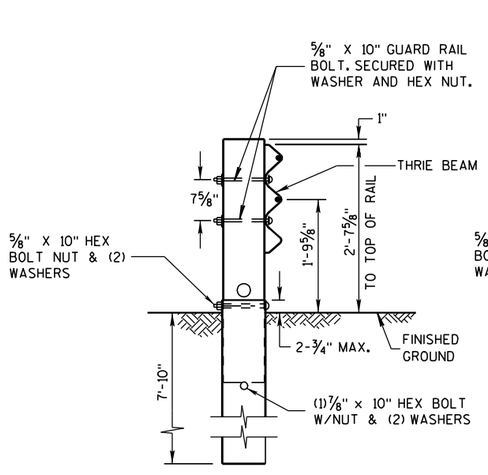
SEE STANDARD DETAIL DRAWINGS 14 B 26a-e.



STANDARD WOOD BLOCK

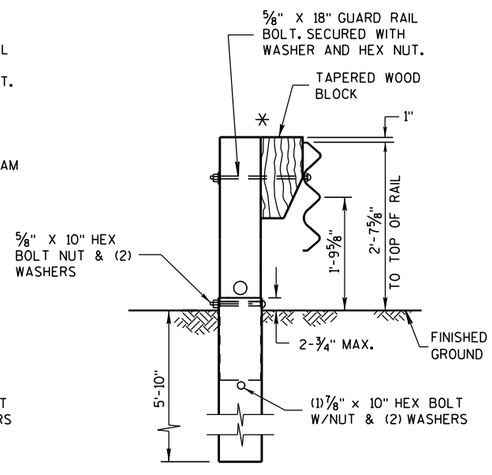


TAPERED WOOD BLOCK



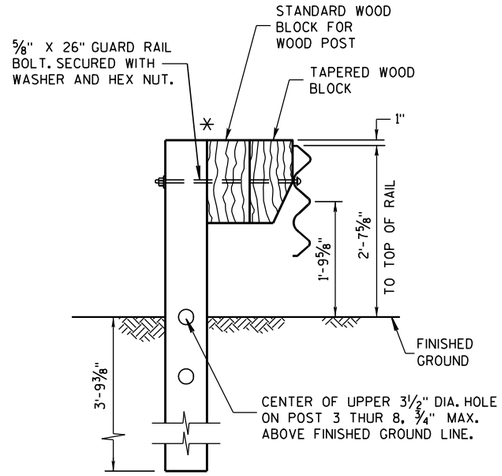
THRIE-BEAM BCT POST
(WITH 8'-0" FOUNDATION TUBE)

POST NO. 1



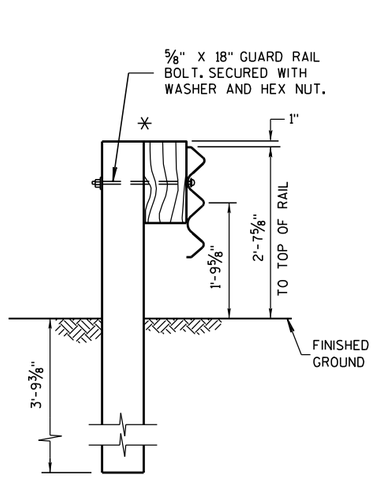
THRIE-BEAM BCT POST
(WITH 6'-0" FOUNDATION TUBE AND 1'-2" TAPERED BLOCK)

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)

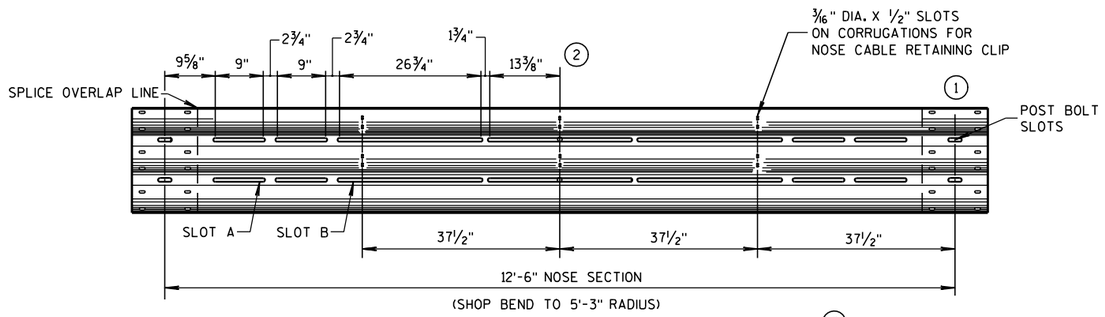
✳ IF NEEDED DUE TO AN UNDERGROUND OBSTACLE ADD 1 ADDITIONAL STANDARD BLOCKOUT TO POST.

STEEL THRIE BEAM BULLNOSE TERMINAL

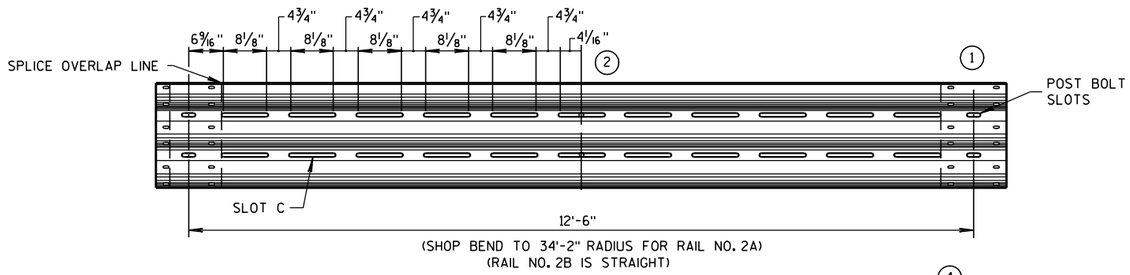
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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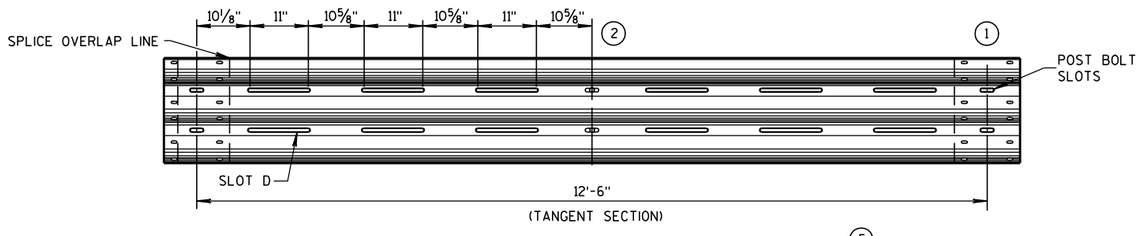
S.D.D. 14 B 26-2d



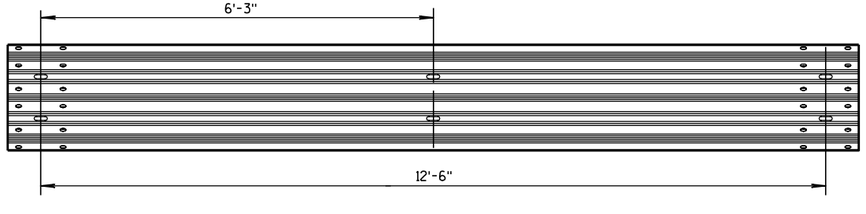
SLOTTED THRIE BEAM RAIL NO. 1 (3)



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.

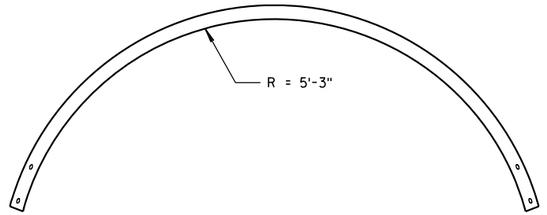
(1) SLOTTED THRIE BEAM RAIL DIMENSIONS SHOWN ARE BEFORE BENDING TO THE RADIUS SHOWN.

(2) SLOT SIZE AND SPACING SYMMETRIC.

(3) SLOTTED THRIE BEAM RAIL NO. 1, 12'-6", SHOP BEND TO R=5'-3".

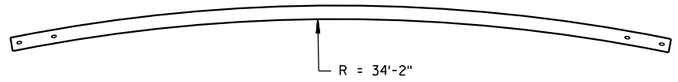
(4) SLOTTED THRIE BEAM RAIL NO. 2A, 12'-6", SHOP BEND TO R=34'-2".
SLOTTED THRIE BEAM RAIL NO. 2B, 12'-6", RAIL IS STRAIGHT.

(5) SLOTTED THRIE BEAM RAIL NO. 3, 12'-6", TANGENT.



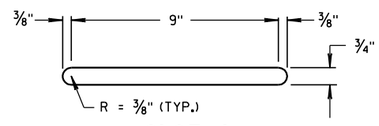
PLAN VIEW

SLOTTED THRIE BEAM RAIL NO. 1

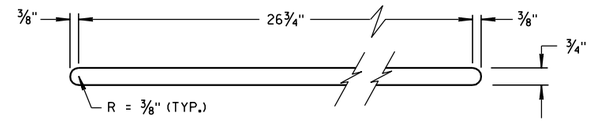


PLAN VIEW

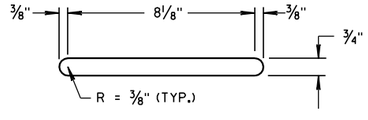
SLOTTED THRIE BEAM RAIL NO. 2A



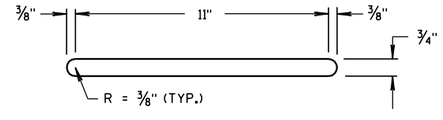
SLOT A



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. [illegible]
ROADWAY STANDARDS ENGINEER

FHWA

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S.D.D. 14 B 26-2e

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S.D.D. 14 B 26-2e

GENERAL NOTES

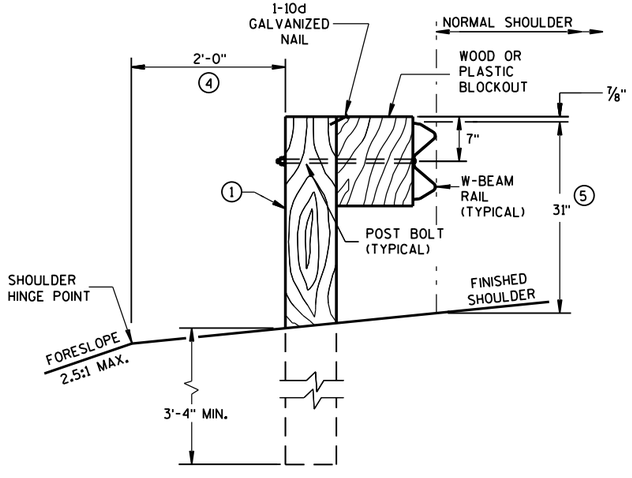
1. WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

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 2½INCHES 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.

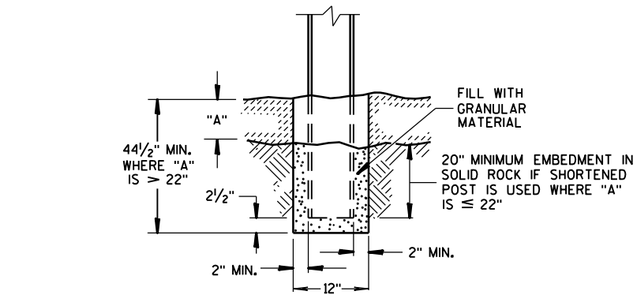
4. WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

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".



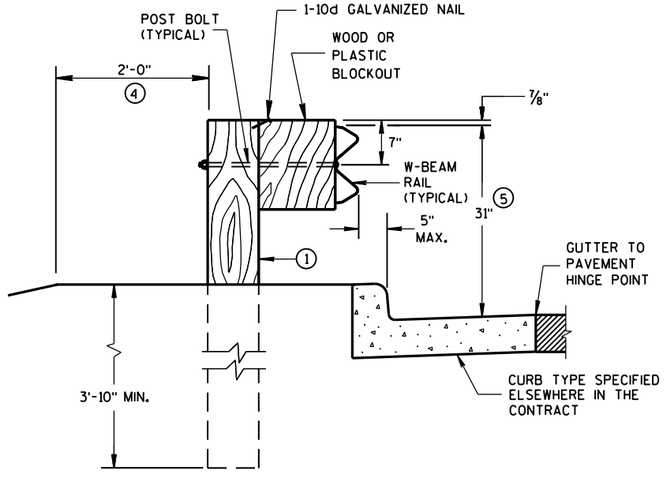
END VIEW

LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



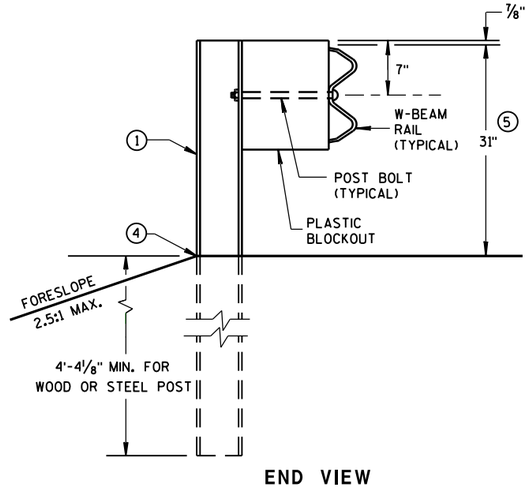
END VIEW

SETTING STEEL OR WOOD POST IN ROCK ③



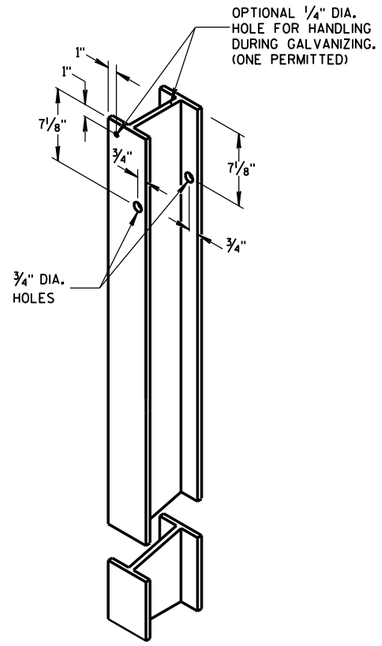
END VIEW

LOCATED ALONG A CURBED ROADWAY

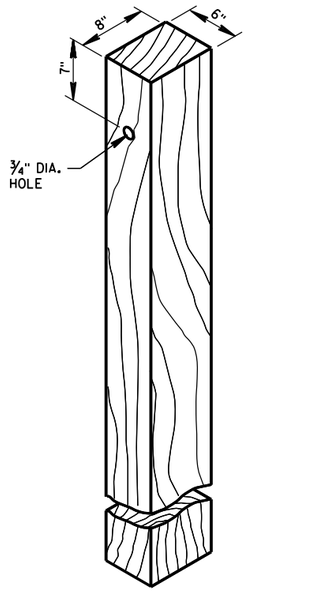


END VIEW

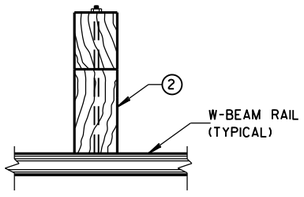
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



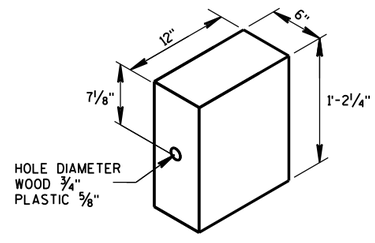
STEEL POST &
HOLE PUNCHING DETAIL
(w6X9) ①



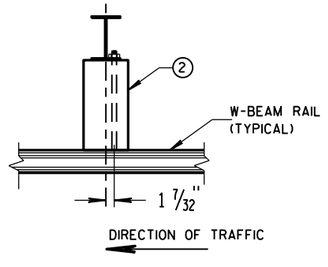
WOOD POST
(6" X 8") NOMINAL ①



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



WOOD OR
PLASTIC BLOCKOUT ②

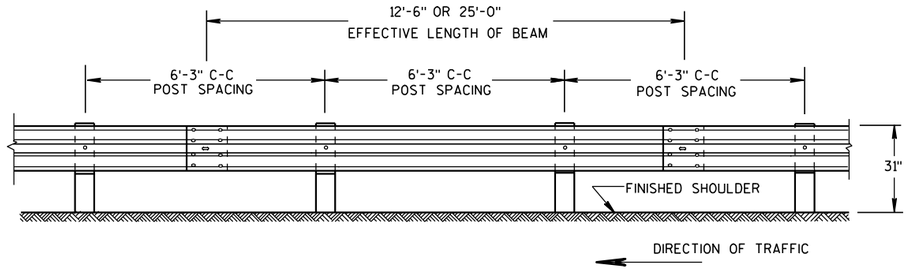


PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

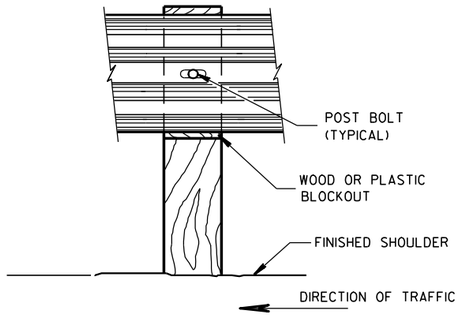
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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FRONT VIEW

POST SPACING STANDARD INSTALLATION



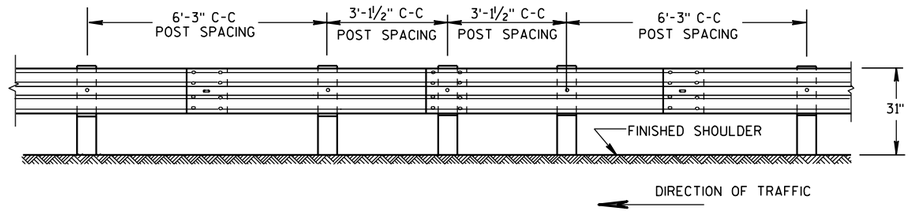
FRONT VIEW AT WOOD POST

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.

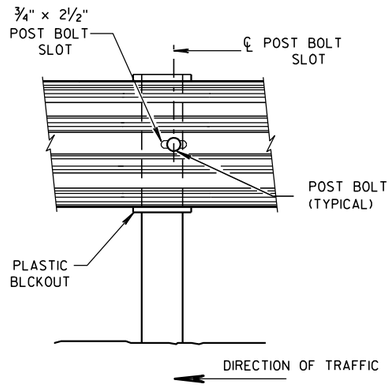
POST BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND 5/8" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

GUARD RAIL SPLICE BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.

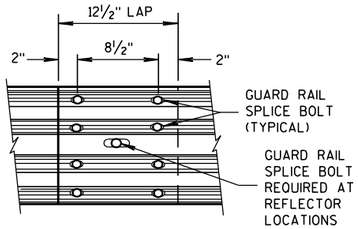


FRONT VIEW

HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)

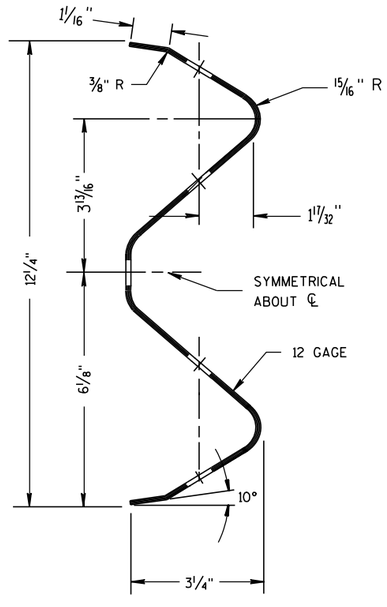


FRONT VIEW AT STEEL POST

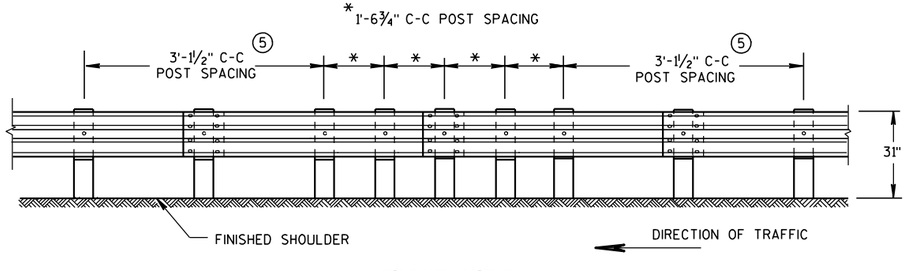


FRONT VIEW

MID-SPAN BEAM SPLICE

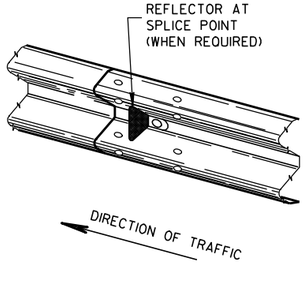


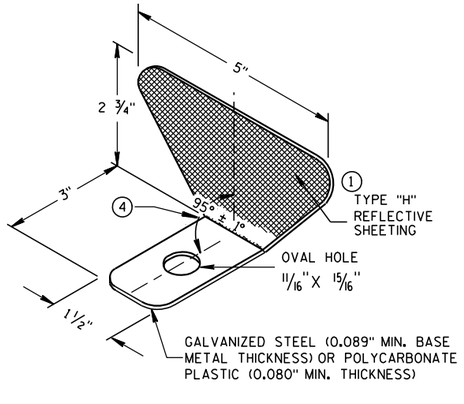
SECTION THRU W-BEAM RAIL



FRONT VIEW

QUARTER POST SPACING (QS)





ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION ①

REFLECTOR SPACING ②

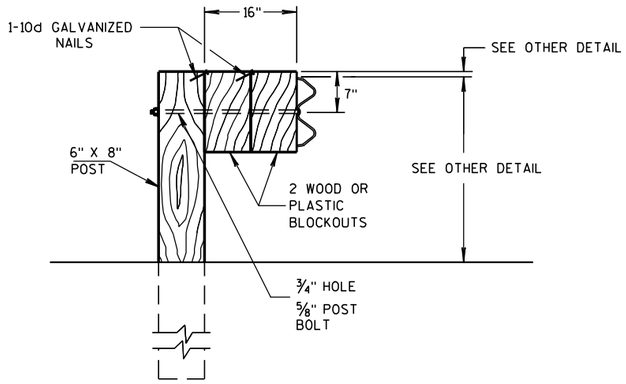
	BEAM GUARD LENGTH	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY TRAFFIC	< 200' > 200'	50' C-C 100' C-C	1 1	3
TWO WAY TRAFFIC	< 200' > 200'	25' C-C 50' C-C	1 1 ③	6
TWO WAY TRAFFIC	< 200' > 200'	50' C-C 100' C-C	2 2 ④	3

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

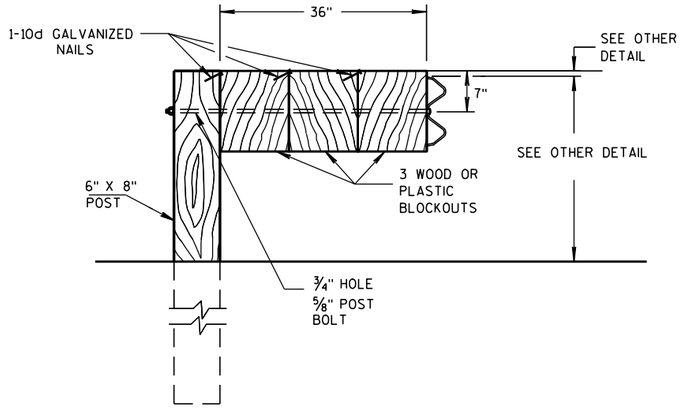
S.D.D. 14 B 42-2b

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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.

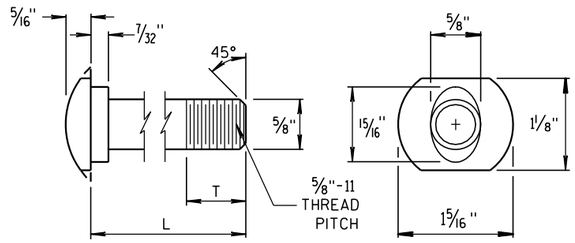


DETAIL FOR 36" BLOCKOUT DEPTH

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.

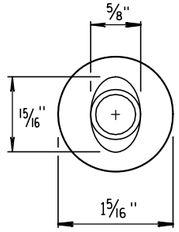
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

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.

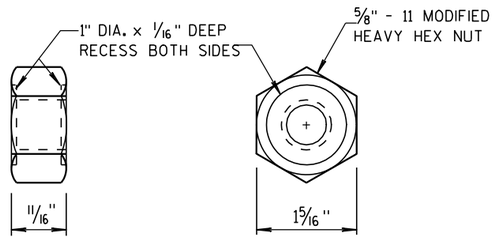


POST BOLT TABLE

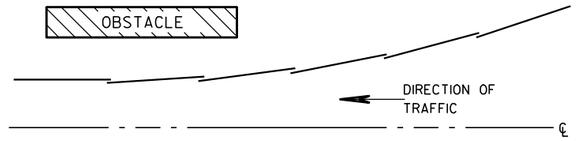
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



ALTERNATE BOLT HEAD

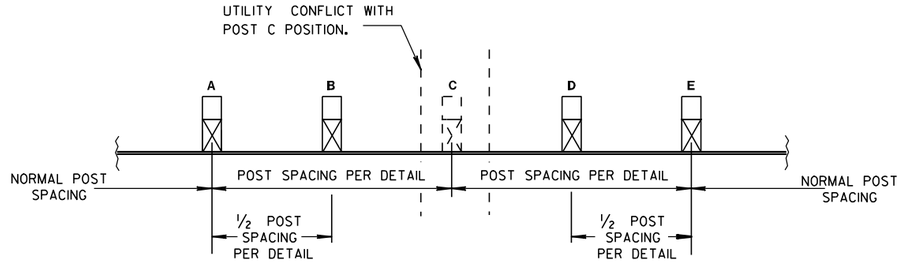


POST BOLT AND RECESS NUT

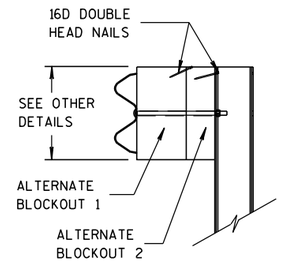


PLAN VIEW

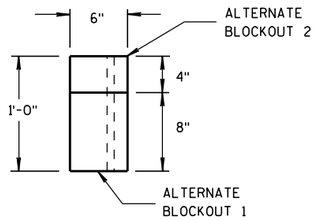
BEAM LAPPING DETAIL



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

215

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S.D.D. 14 B 42-2c

6

S.D.D. 14 B 42-2c

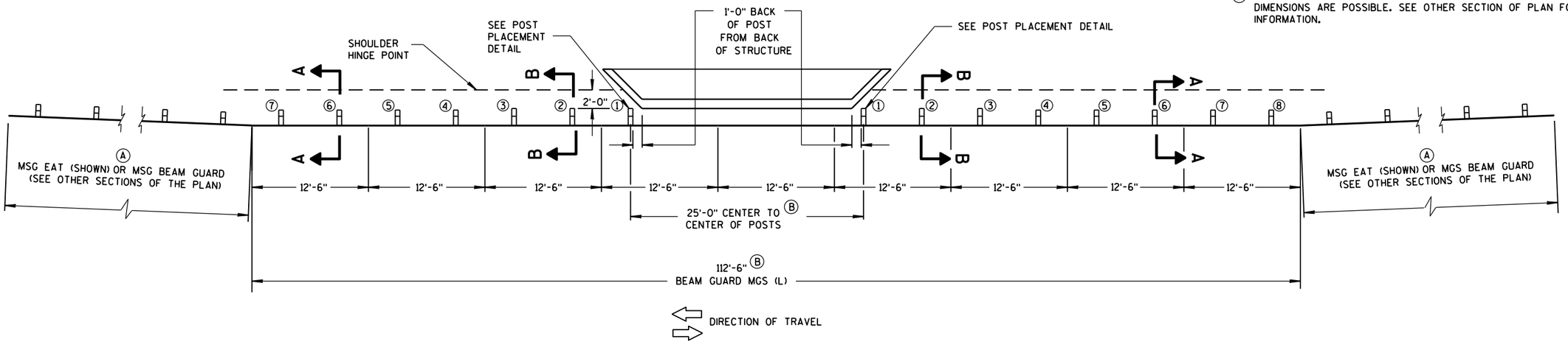
GENERAL NOTES

POSTS 1 THROUGH 3 ARE CRT POSTS.
ALL OTHER POSTS SHALL BE WOOD OR STEEL.

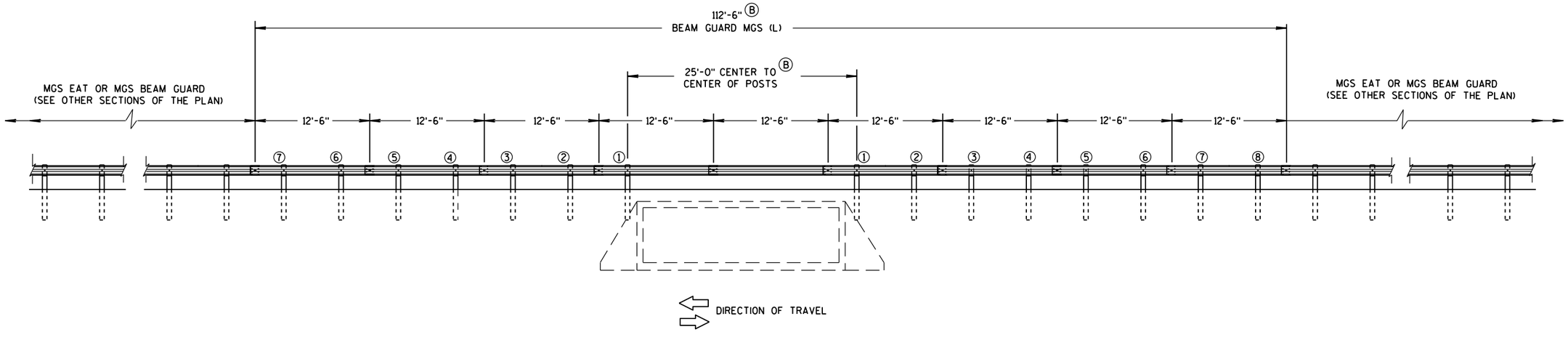
SEE SDD 14 B 42 FOR MORE DETAILS.

(A) FLARE FOR MGS EAT SHOWN. IF INSTALLING MGS NO FLARE NEEDED.

(B) VALUES SHOWN ON DRAWING REPRESENT THE MAXIMUM LENGTH. SHORTER DIMENSIONS ARE POSSIBLE. SEE OTHER SECTION OF PLAN FOR MORE INFORMATION.



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L) TWO-WAY TRAFFIC

MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
STATE OF WISCONSIN DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 43-3a

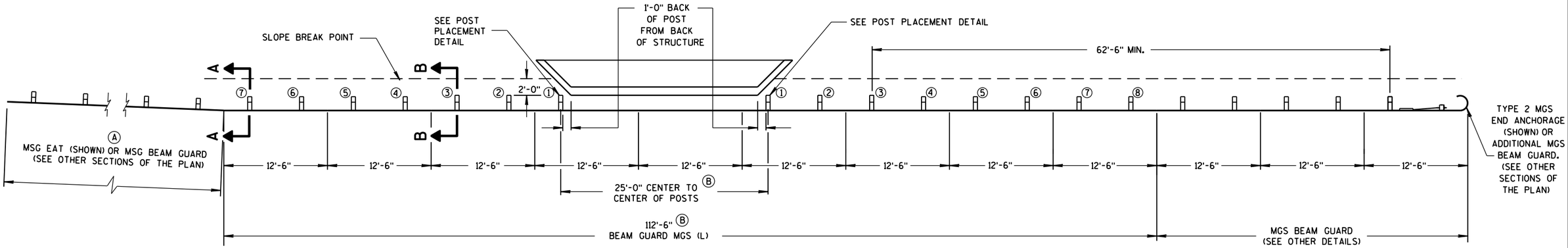
GENERAL NOTES

POSTS 1 THROUGH 3 ARE CRT POSTS.
ALL OTHER POSTS SHALL BE WOOD OR STEEL.

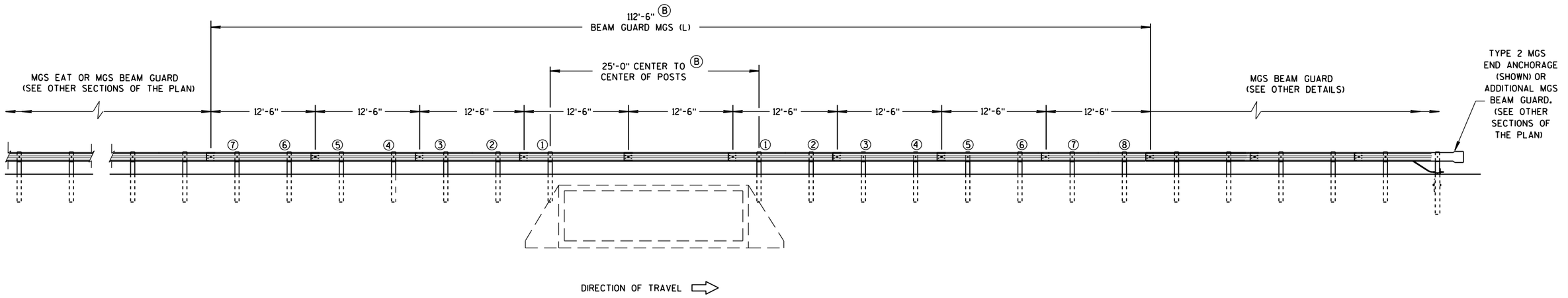
SEE SDD 14 B 42 FOR MORE DETAILS.

(A) FLARE FOR MGS EAT SHOWN. IF INSTALLING MGS NO FLARE NEEDED.

(B) VALUES SHOWN ON DRAWING REPRESENT THE MAXIMUM LENGTH. SHORTER DIMENSIONS ARE POSSIBLE. SEE OTHER SECTION OF PLAN FOR MORE INFORMATION.



PLAN VIEW



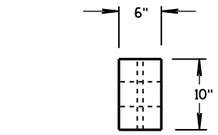
ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L) ONE-WAY TRAFFIC

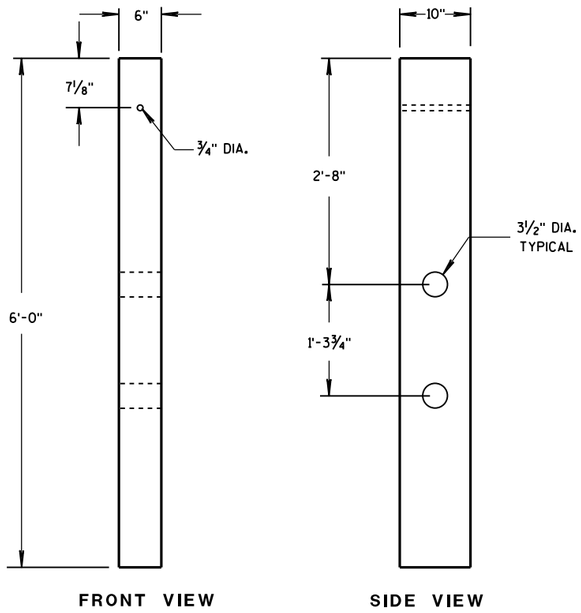
MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPOI	217

6

S.D.D. 14 B 43-3b

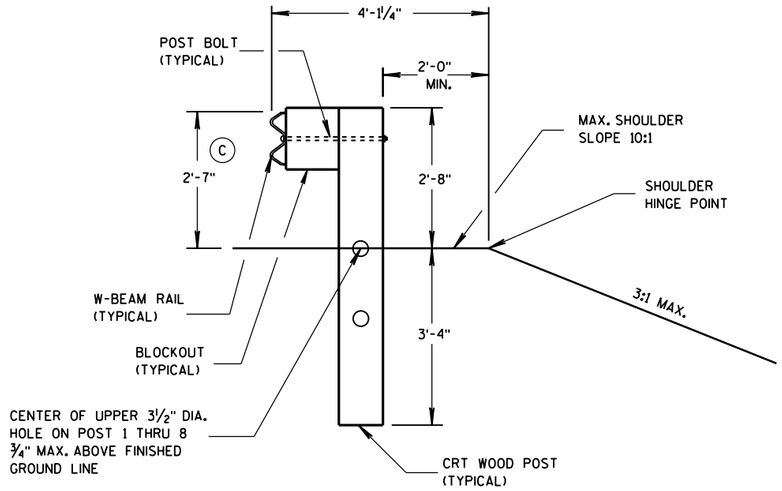


PLAN VIEW



FRONT VIEW SIDE VIEW

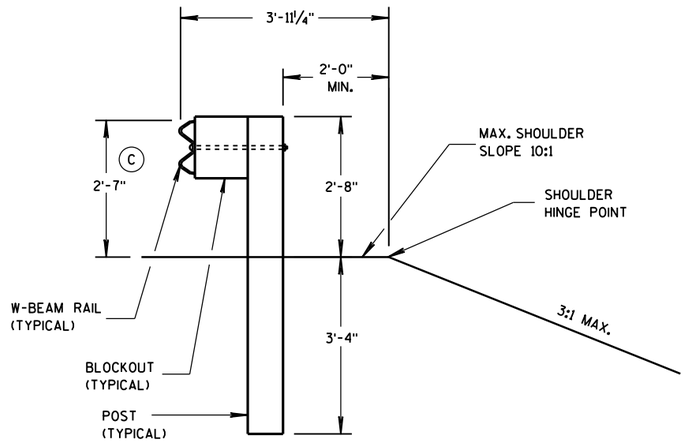
CRT WOOD POST



SECTION B-B

POSTS NO. 1-3

SEE OTHER DETAILS



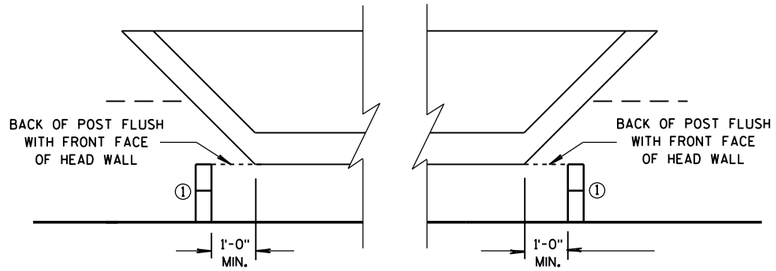
SECTION A-A

POSTS NO. 4-8

SEE OTHER DETAILS

GENERAL NOTES

(C) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".



POST PLACEMENT DETAIL

MIDWEST GUARDRAIL SYSTEM
LONG SPAN MGS (L)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/10/2013
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

6

S.D.D. 14 B 43-3c

6

S.D.D. 14 B 43-3c

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.

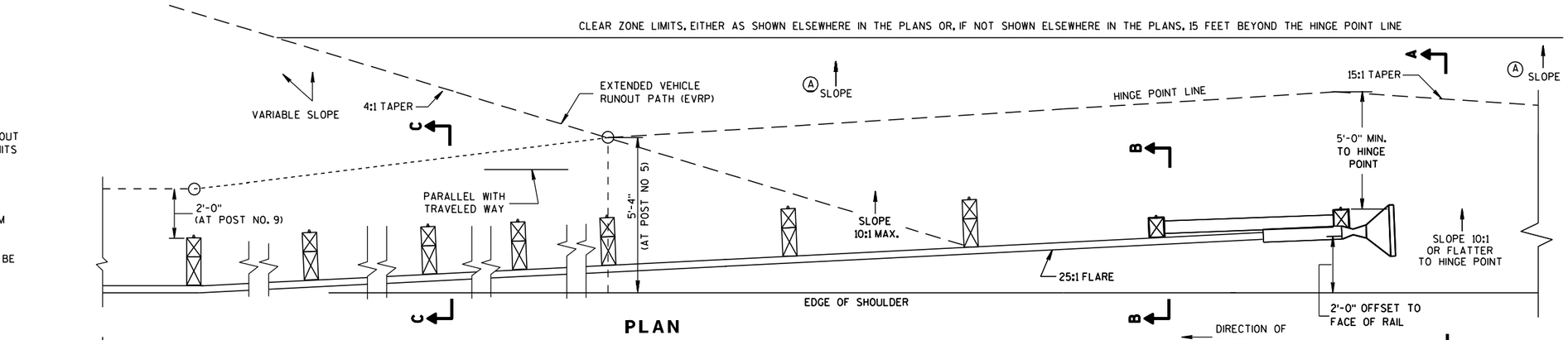
* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

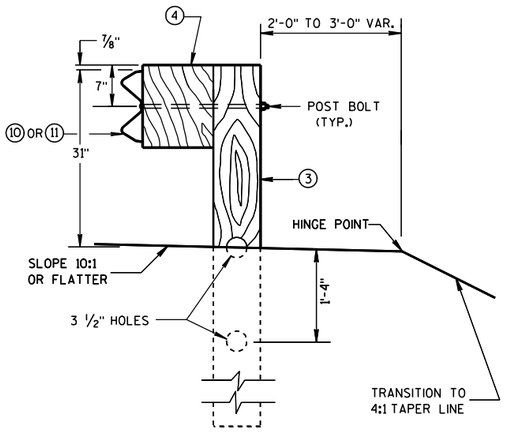
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

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.

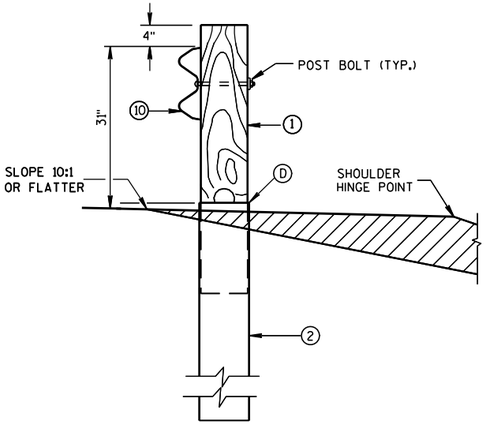
PATTERN AND COLORS ON REFLECTIVE SHEETING TYPE H ARE TO CONFORM TO OM3-L OR OM3-R OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE CENTER OF THE UPPER 3½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE (± ¾")

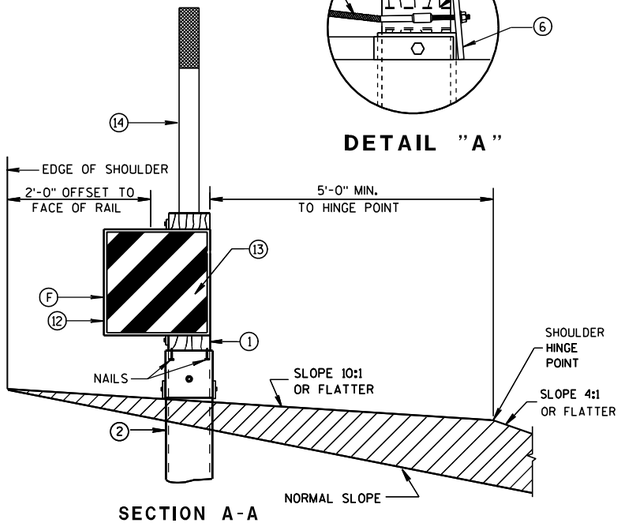




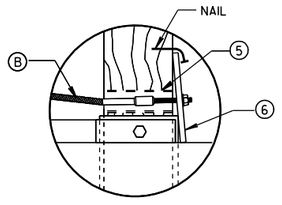
SECTION C-C
TYPICAL AT POST NOS. 3-9



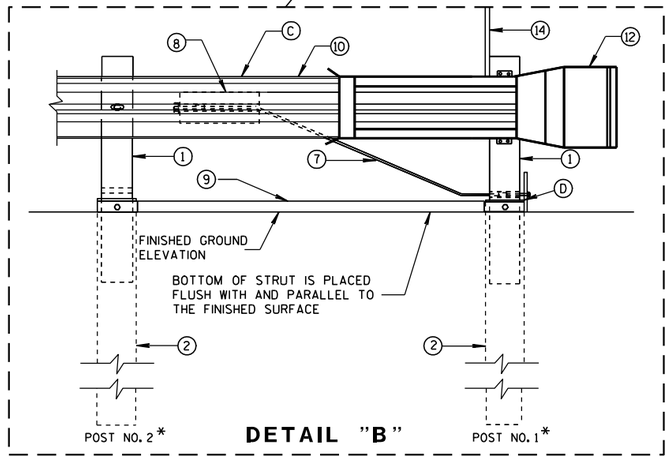
SECTION B-B
TYPICAL AT POST NO. 2*



SECTION A-A
TYPICAL AT POST NO. 1*



DETAIL "A"

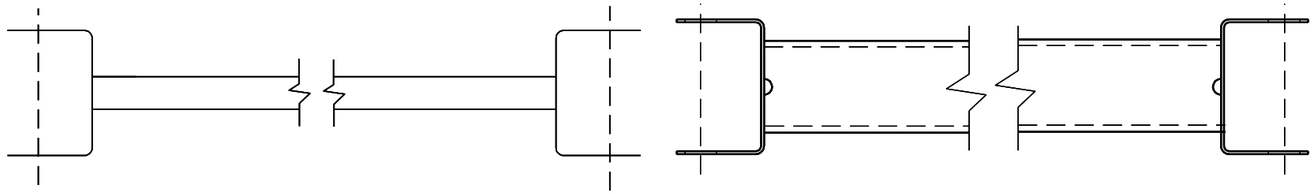


DETAIL "B"

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

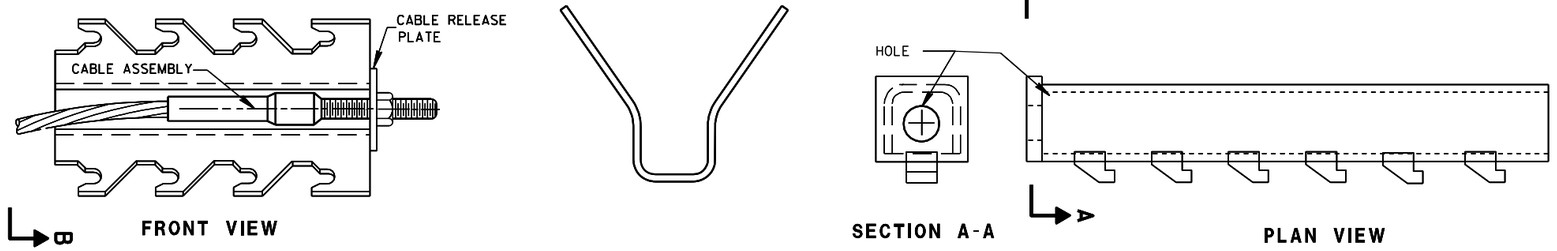
6
S.D.D. 14 B 44-1a



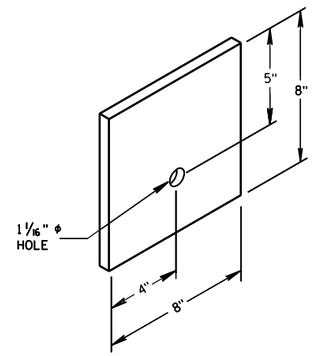
GENERIC GROUND STRUT (9) (H)

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)



GENERIC ANCHOR CABLE BOX (8) (H)



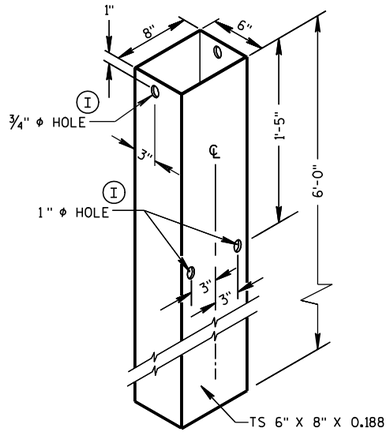
BEARING PLATE (6)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

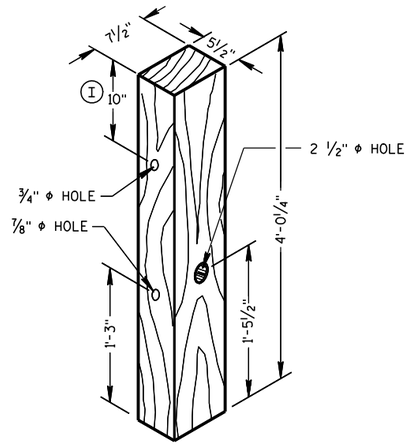
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 14 B 44-1b

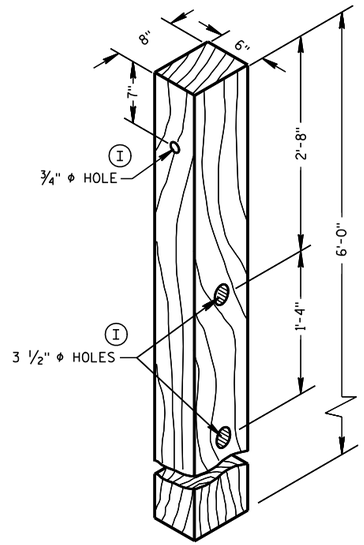


FOUNDATION TUBE (2)



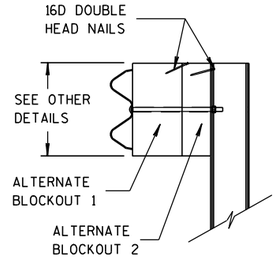
POSTS NUMBER 1 AND 2

WOOD BREAKAWAY POST (1)

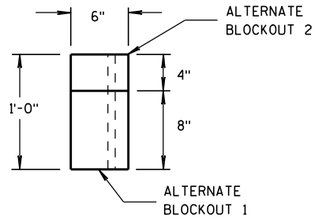


POSTS NUMBER 3-9

WOOD CRT POST (3)

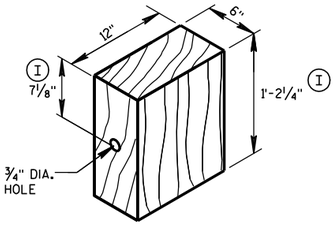


SIDE VIEW



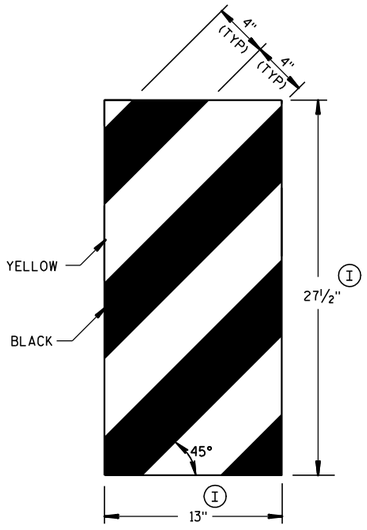
TOP VIEW

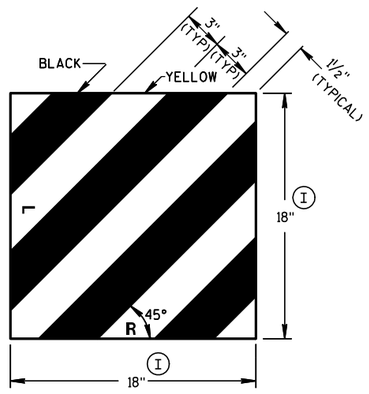
ALTERNATE WOOD BLOCKOUT DETAIL



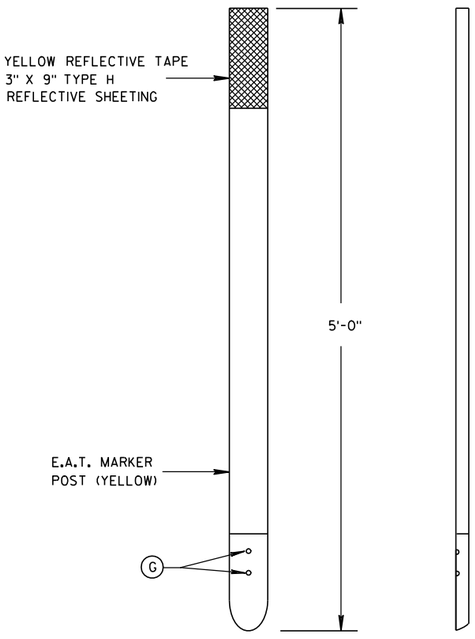
WOOD BLOCKOUT (4)

REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2





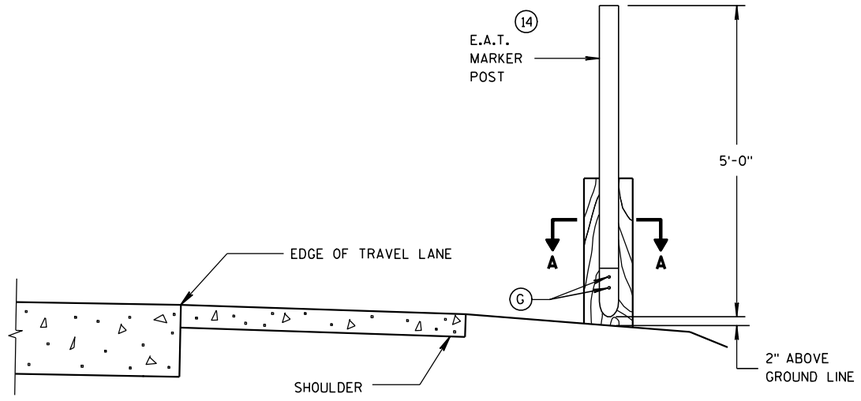
GENERIC REFLECTIVE SHEETING (13) (H)



FRONT VIEW

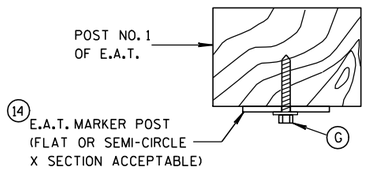
SIDE VIEW

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

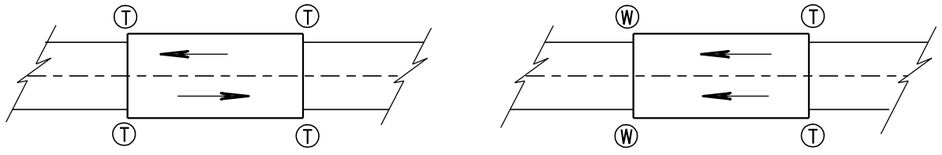
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/23/2011
DATE
/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER
FHWA

6

S.D.D. 14 B 44-1c



TWO WAY TRAFFIC

ONE WAY TRAFFIC

Ⓣ THRIE BEAM CONNECTION

Ⓦ W-BEAM CONNECTION WHEN REQUIRED

TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE

GENERAL NOTES

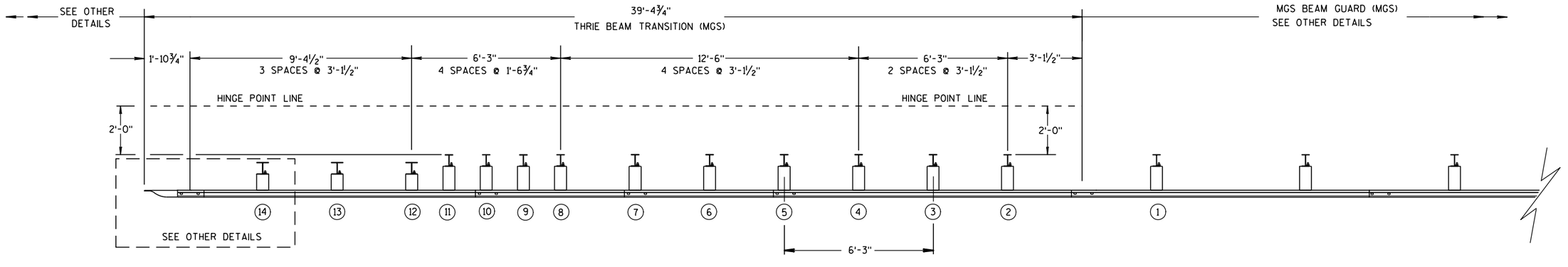
BOLT THE THRIE BEAM TO ALL POSTS AND BLOCKOUTS. DRILL OR PUNCH BOLT HOLES IN THE BEAM IF THE POST SPACING IS LESS THAN 6'-3.

IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2½", AND 12" DIAMETER AROUND POST. SEE 14B42 FOR MORE DETAILS.

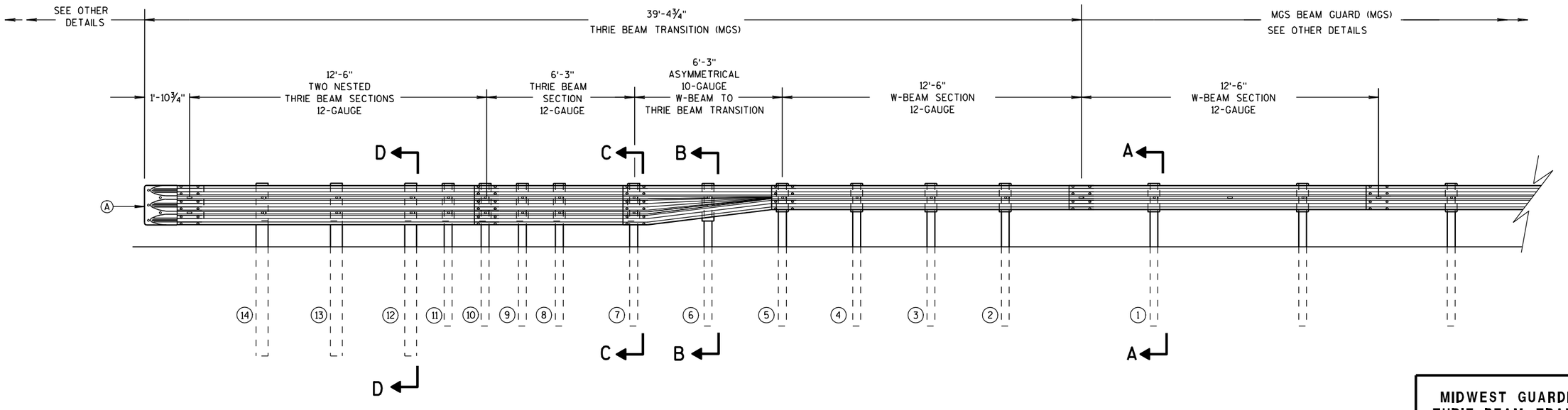
TRANSITION USES STEEL POSTS ONLY.

SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

Ⓐ BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION

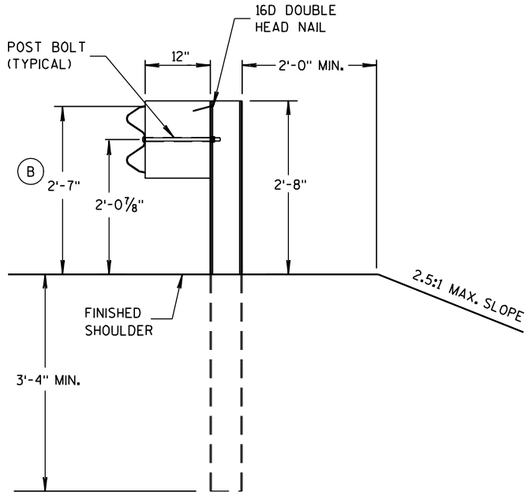
MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO...

6
S.D.D. 14 B 45-3a

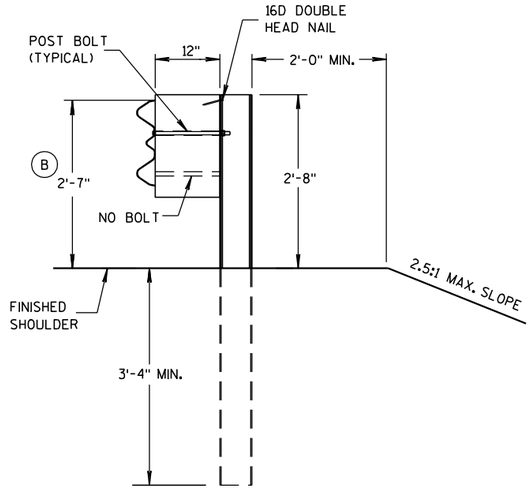
GENERAL NOTES

(B) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".



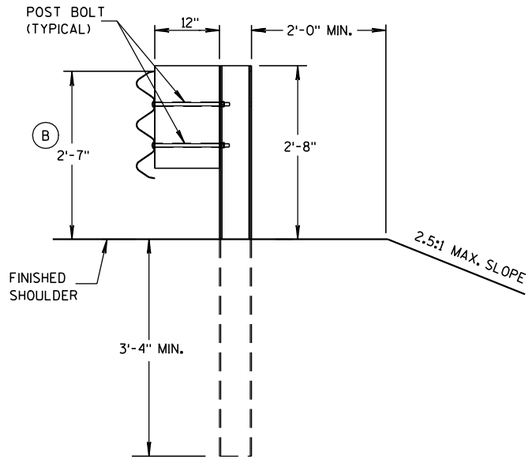
SECTION A-A

POSTS 1-5



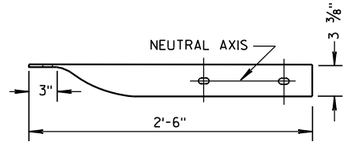
SECTION B-B

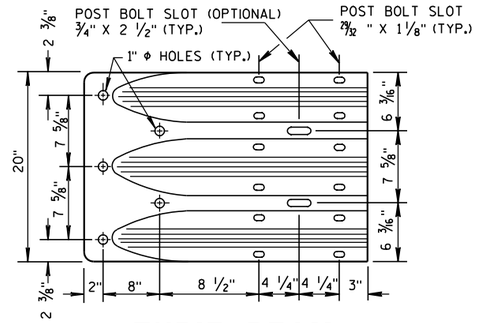
POST 6



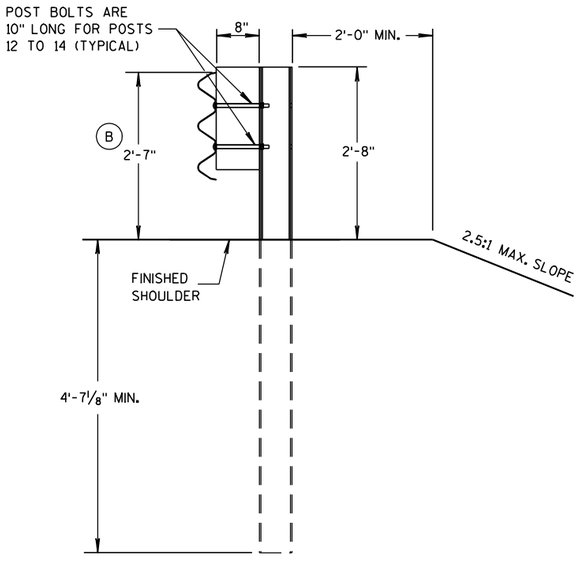
SECTION C-C

POSTS 7-11



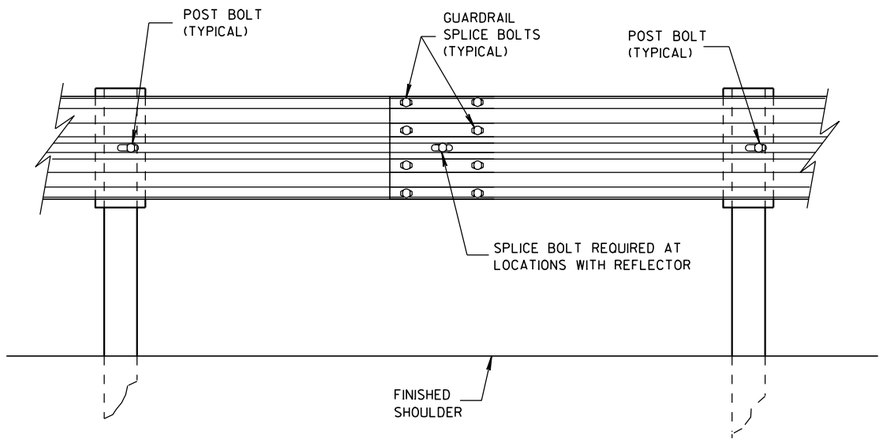


THRIE BEAM TERMINAL CONNECTOR



SECTION D-D

POSTS 12-14



SPLICE DETAIL

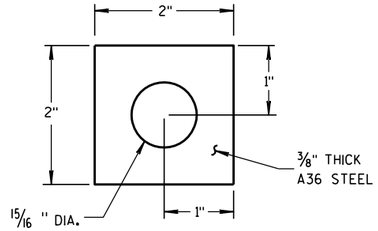
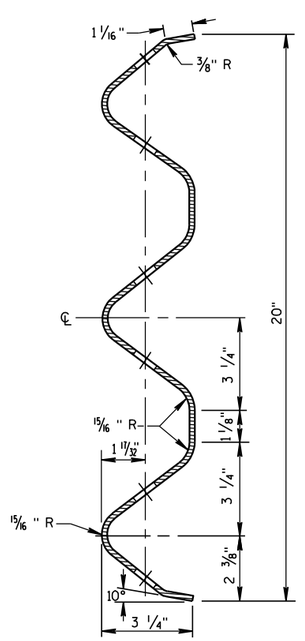


PLATE WASHER DETAIL



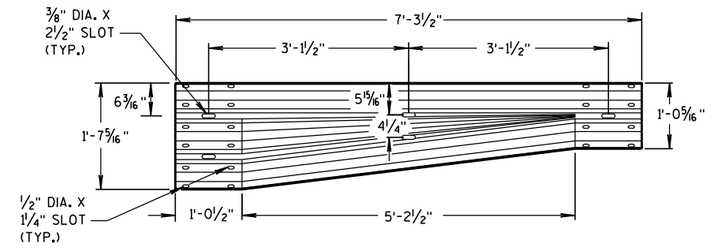
SECTION THRU THRIE BEAM RAIL ELEMENT

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

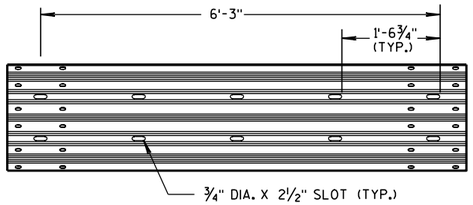
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

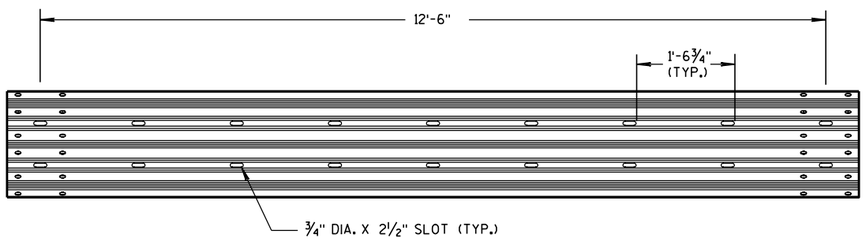
S.D.D. 14 B 45-3b



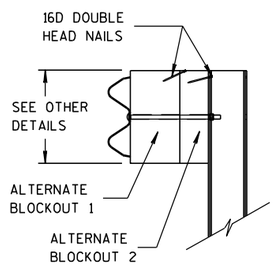
W-BEAM TO THRIE BEAM TRANSITION SECTION



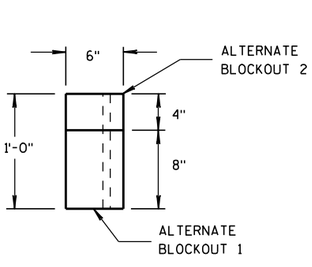
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

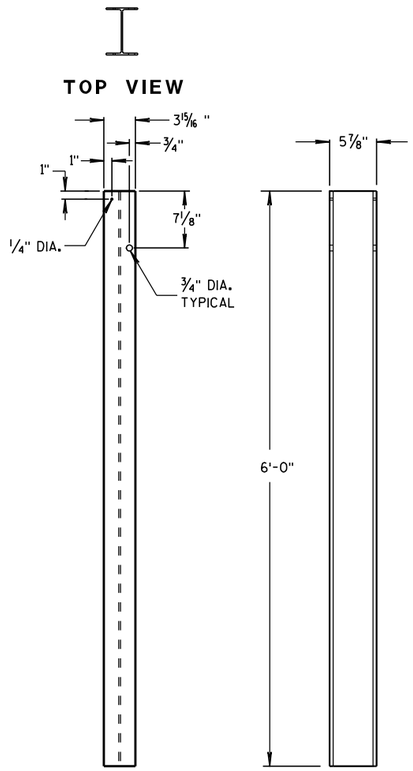


SIDE VIEW

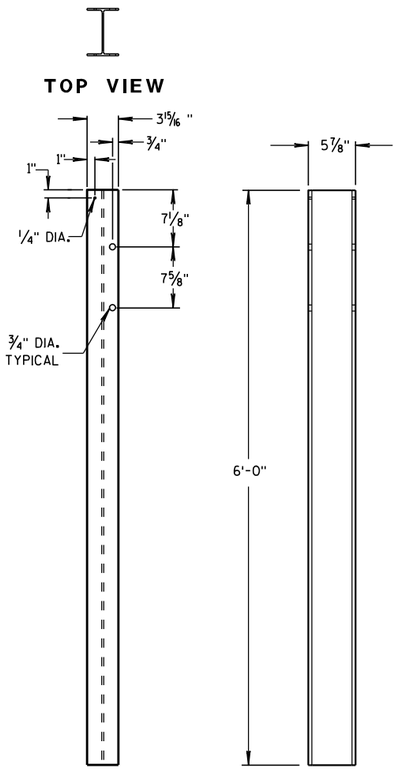


TOP VIEW

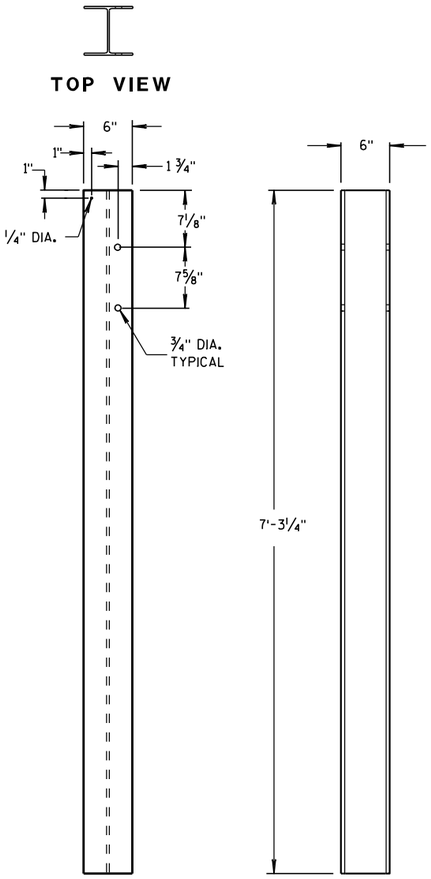
ALTERNATE WOOD BLOCKOUT DETAIL



STEEL POSTS 1-5

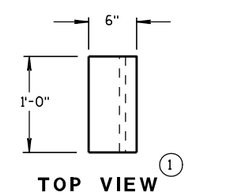


STEEL POSTS 6-11

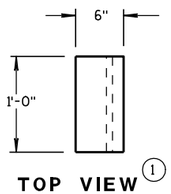


STEEL POSTS 12-14

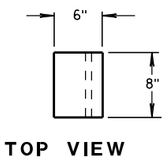
① WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.



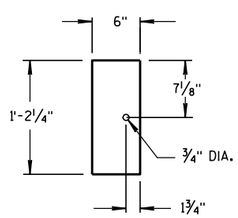
TOP VIEW ①



TOP VIEW ①

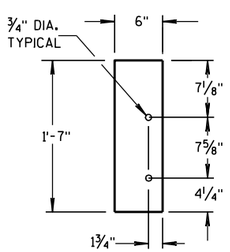


TOP VIEW



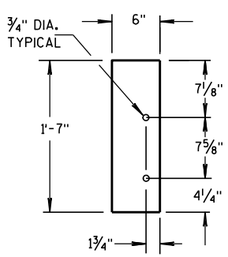
FRONT VIEW

BLOCKOUT POSTS 1-5



FRONT VIEW

BLOCKOUT POSTS 6-11



FRONT VIEW

BLOCKOUT POSTS 12-14

STEEL POST SIZES

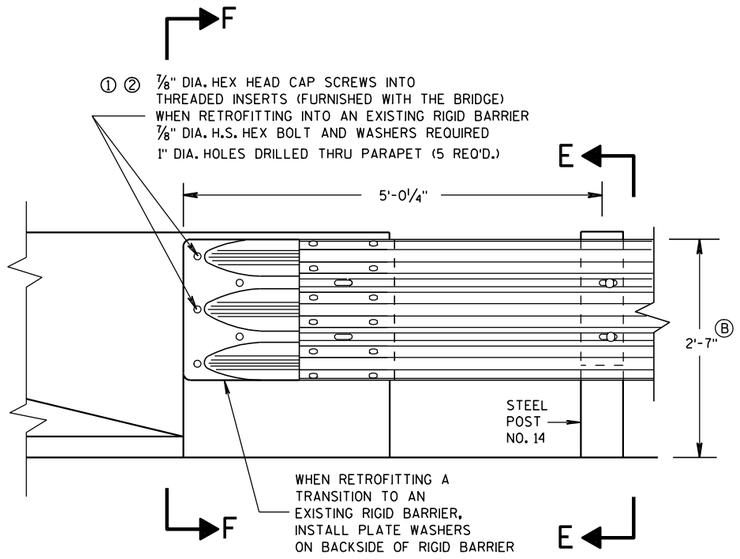
POST NUMBER	SECTION TYPE	LENGTH
①	W6x9	72"
②	W6x9	72"
③	W6x9	72"
④	W6x9	72"
⑤	W6x9	72"
⑥	W6x9	72"
⑦	W6x9	72"
⑧	W6x9	72"
⑨	W6x9	72"
⑩	W6x9	72"
⑪	W6x9	72"
⑫	W6x15	87 1/8"
⑬	W6x15	87 1/8"
⑭	W6x15	87 1/8"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

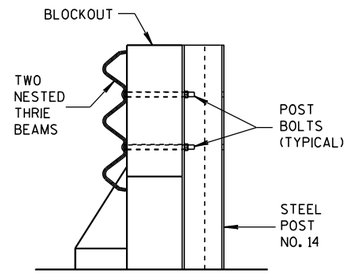
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 14 B 45-3c



FRONT VIEW



SECTION E-E

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

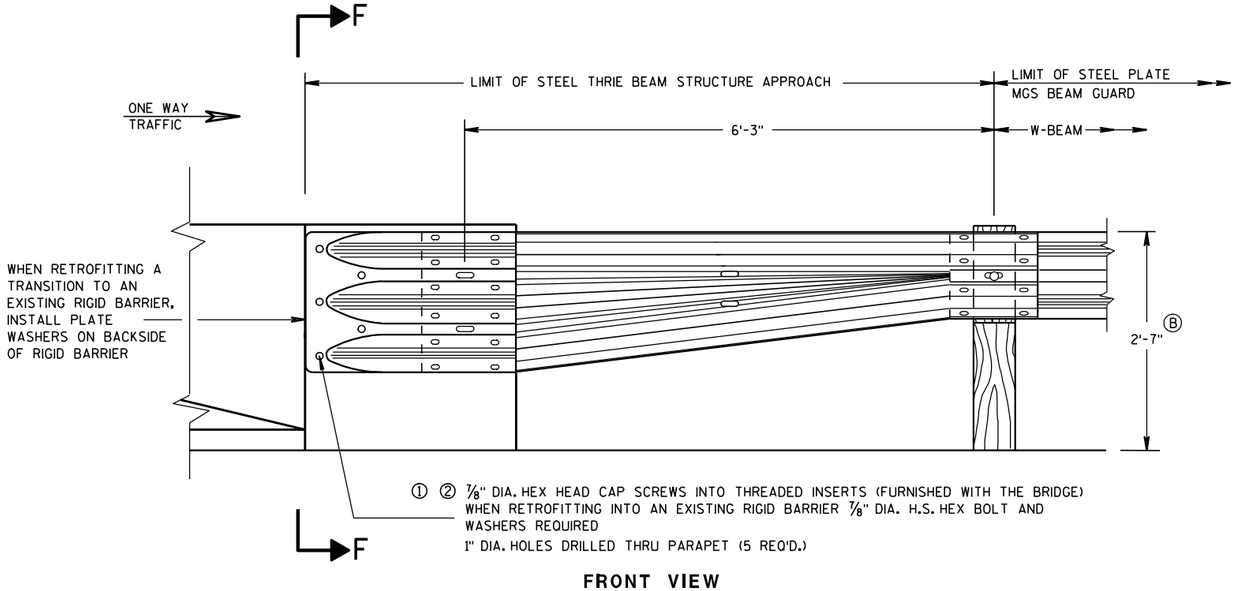
① DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

② BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

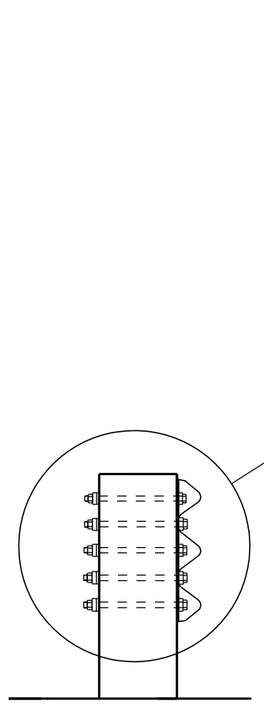
③ THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".

Ⓑ TOLERANCE FOR TOP OF BEAM IS ± 1".

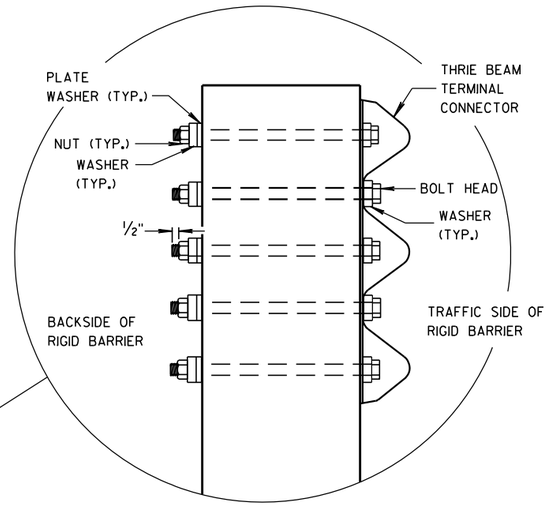
THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS



FRONT VIEW



SECTION F-F



W BEAM TRANSITION AND CONNECTION TO BRIDGE PARAPETS WITH SQUARE ENDS

(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

8/31/2012 — DATE

/S/ Jerry H. [illegible] — ROADWAY STANDARDS (225) — ENGINEER

FHWA

6

S.D.D. 14 B 45-3d

6

S.D.D. 14 B 45-3d

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

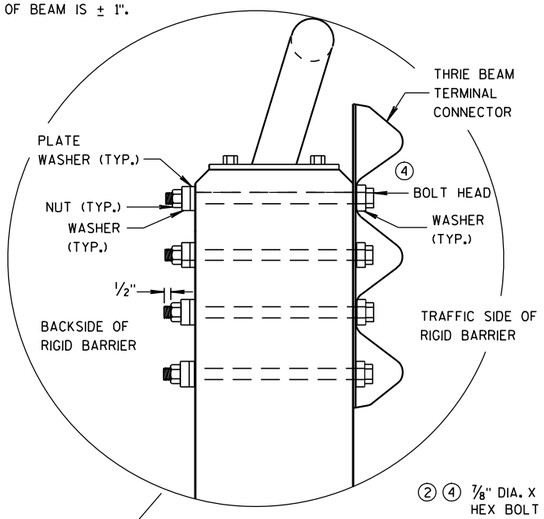
① DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

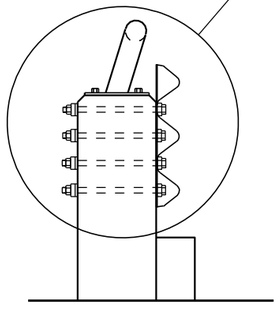
② BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

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". BLOCK IS INCIDENTAL TO THE CONTRACT.

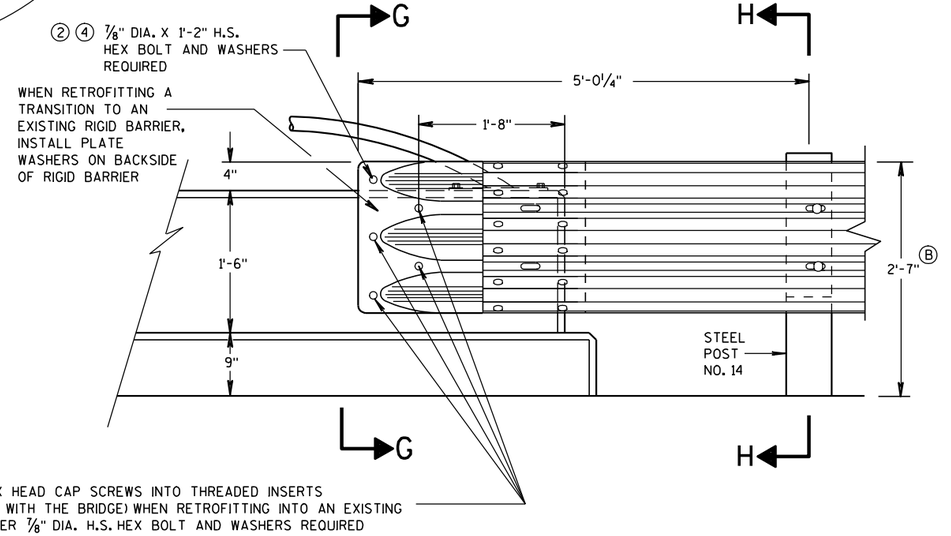
④ BOLT, NUT AND WASHERS NOT REQUIRED FOR THIS LOCATION WHEN RETROFITTING AN EXISTING PAPAPET AND THE HOLE IS EITHER ABOVE PARAPET OR WITHIN 4 INCHES OF THE EDGE OF PARAPET.

Ⓑ TOLERANCE FOR TOP OF BEAM IS ± 1".

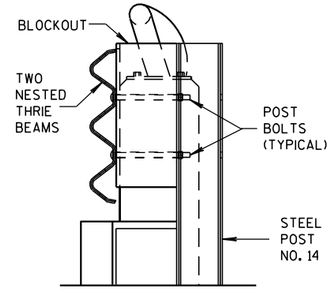




SECTION G-G

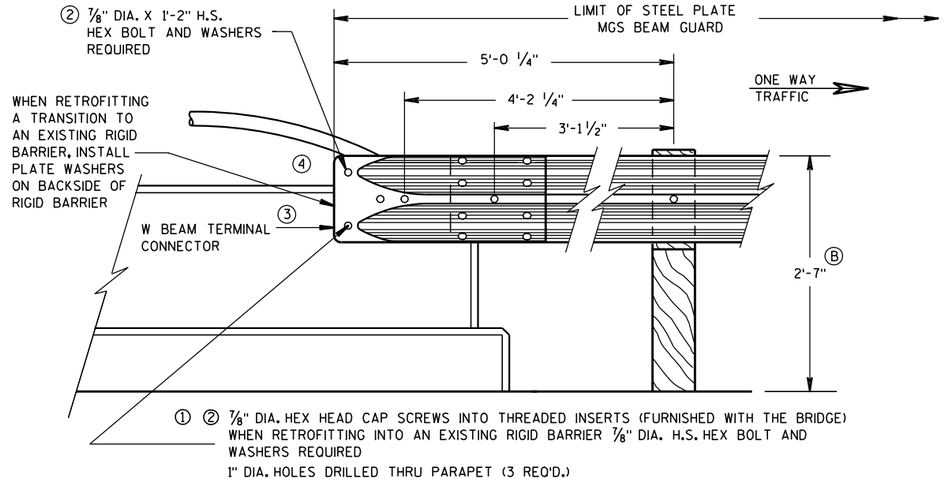


FRONT VIEW



SECTION H-H

THRIE BEAM CONNECTION TO VERTICAL FACED PARAPETS

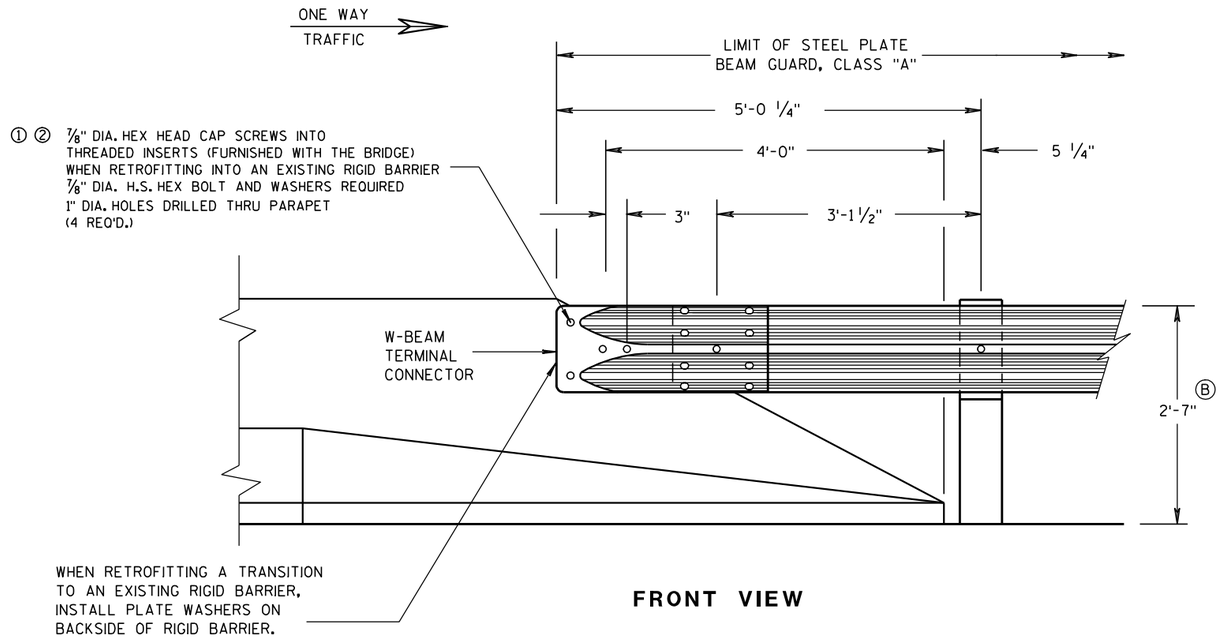


FRONT VIEW

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	
8-31-2012 DATE	/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA	



FRONT VIEW

W BEAM CONNECTION TO PARAPETS WITH SLOPED ENDS

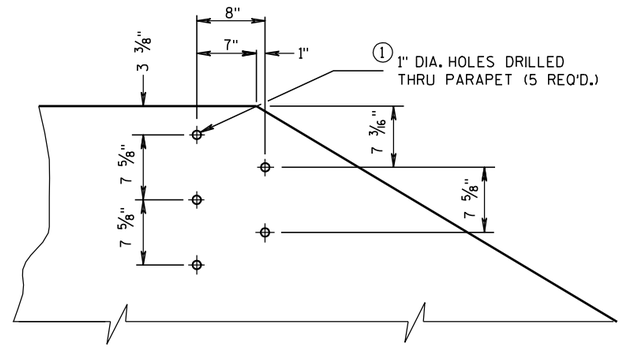
(USE ONLY AT TRAFFIC EXIT END OF ONE WAY BRIDGE)

GENERAL NOTES

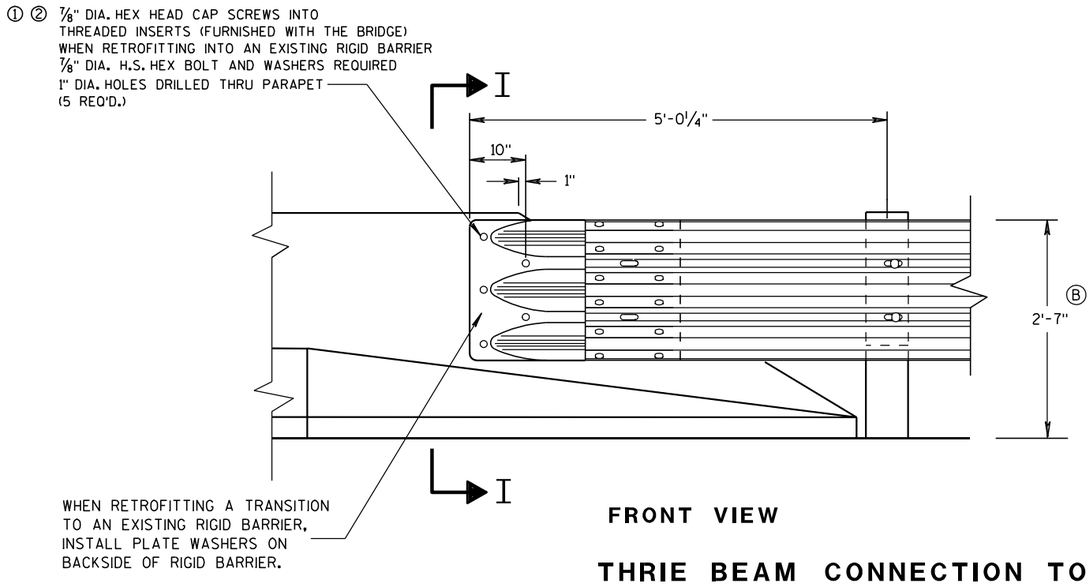
① DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

② BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

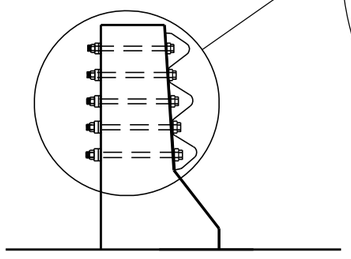
Ⓑ TOLERANCE FOR TOP OF BEAM IS ± 1".



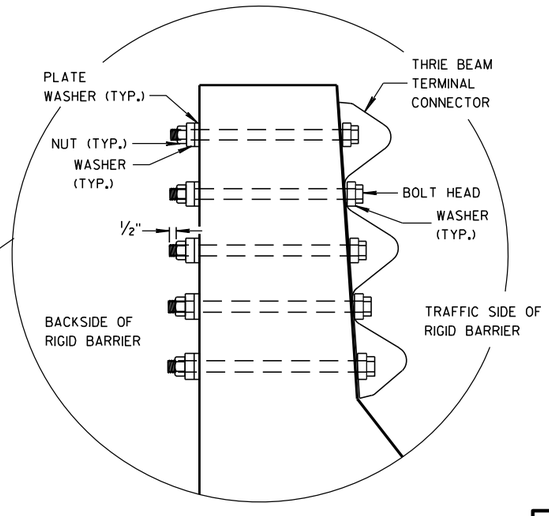
DRILL HOLE LOCATION AND PATTERN FOR THRIE BEAM CONNECTION



FRONT VIEW



SECTION I-I



THRIE BEAM CONNECTION TO BRIDGE PARAPETS WITH SLOPED ENDS

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/31/2012 — DATE

/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER

227

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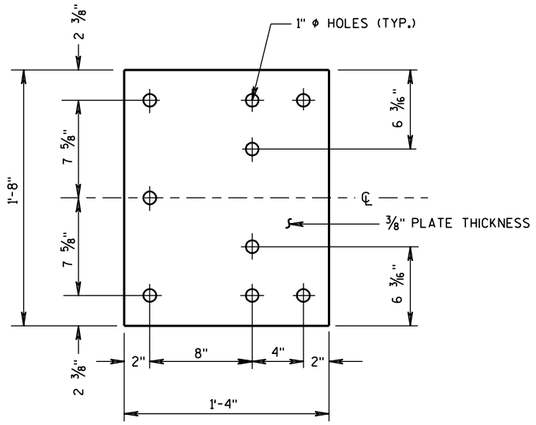
FHWA

6

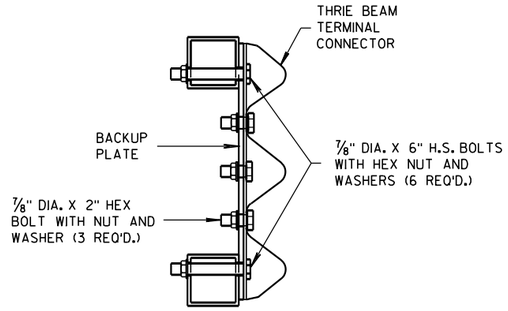
S.D.D. 14 B 45-3f

6

S.D.D. 14 B 45-3f



BACK-UP PLATE DETAIL

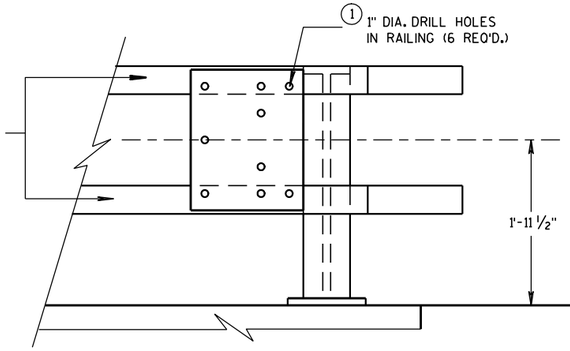


SECTION J-J

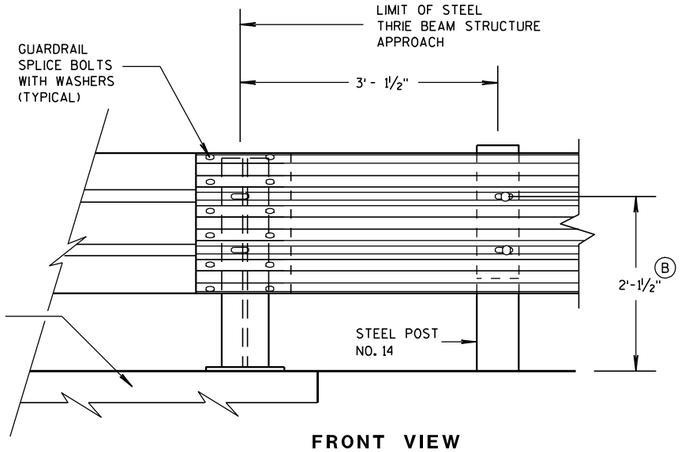
GENERAL NOTES

(1) DRILLING HOLES THROUGH THE PAPRPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(B) TOLERANCE FOR TOP OF BEAM IS ± 1".

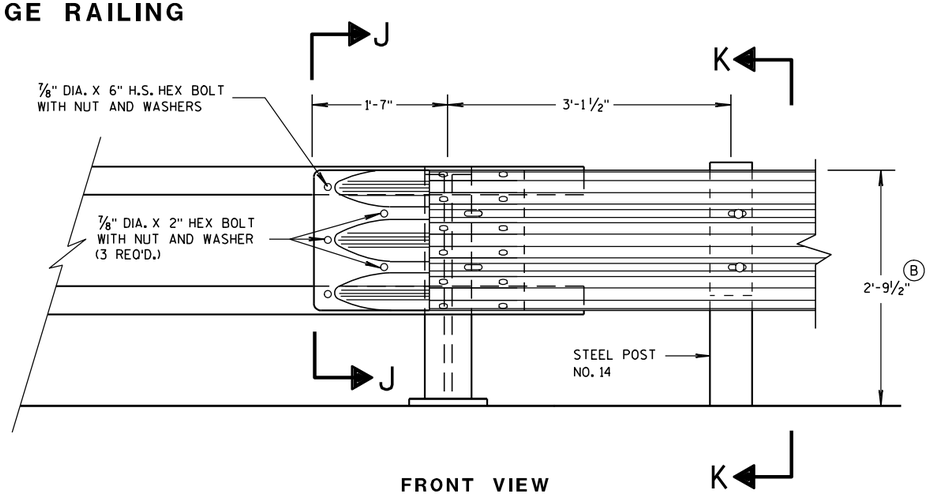


BACK-UP PLATE MOUNTING ONTO BRIDGE RAILING

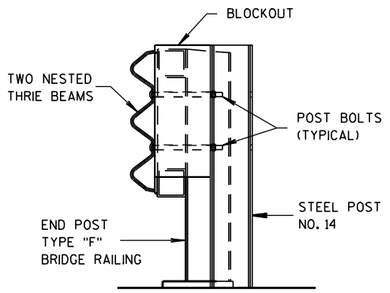


FRONT VIEW

THRIE BEAM CONNECTION TO STEEL RAILING TYPE "W"



FRONT VIEW



SECTION K-K

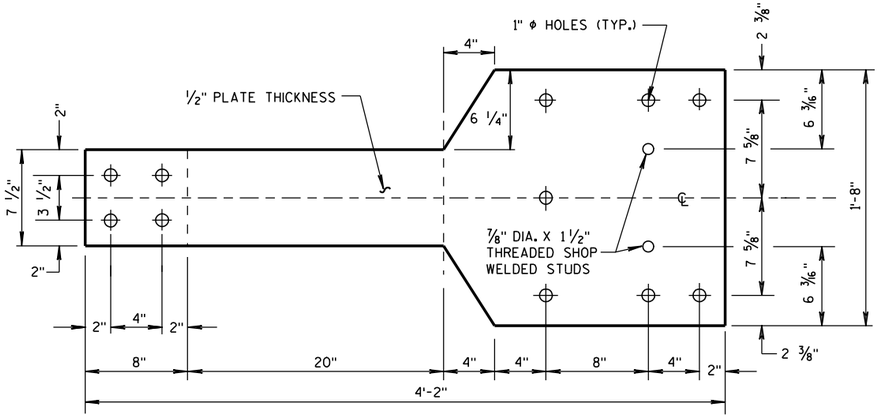
THRIE BEAM CONNECTION TO TUBULAR RAILING TYPE "F"

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED 8/31/2012 DATE /S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER FHWA

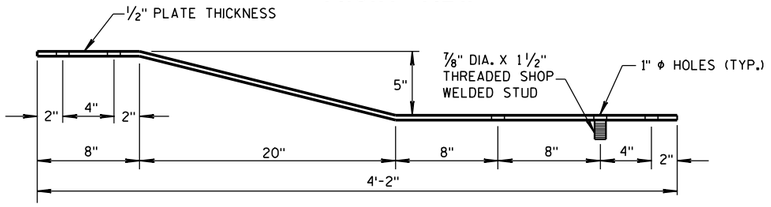
6
S.D.D. 14 B 45-3g

GENERAL NOTES

(B) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

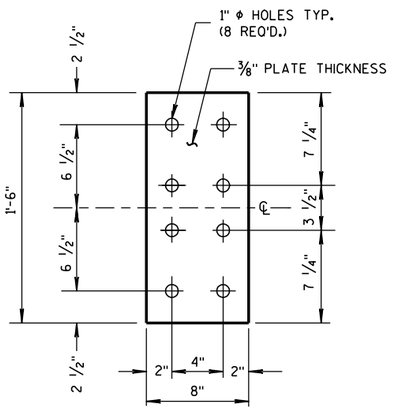


FRONT VIEW



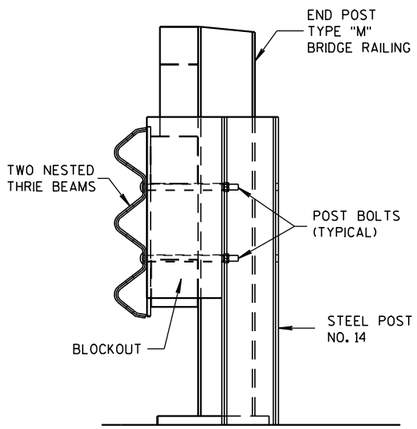
PLAN VIEW

BACK-UP PLATE DETAIL, TYPE "M"

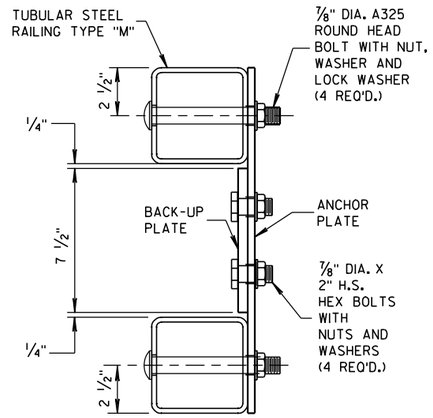


FRONT VIEW

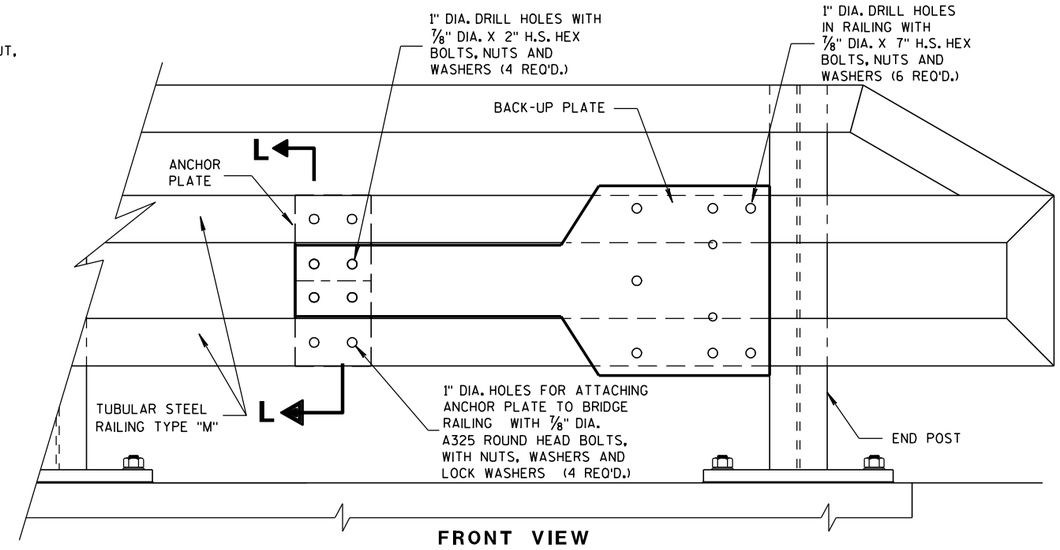
ANCHOR PLATE DETAIL, TYPE "M"



SECTION M-M

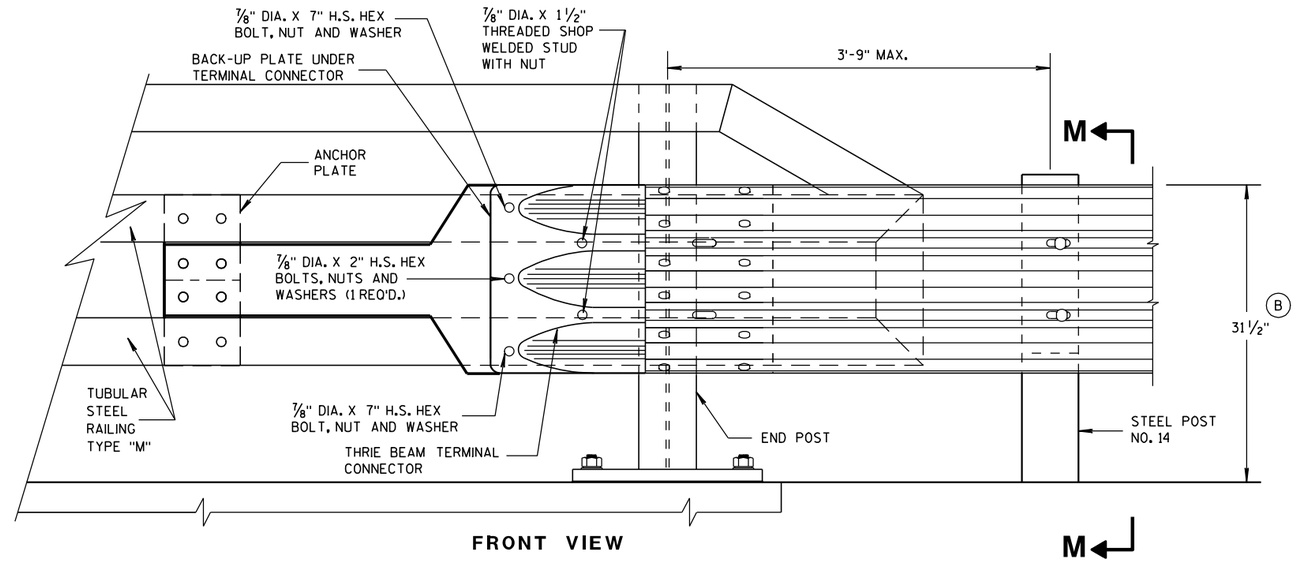


SECTION L-L

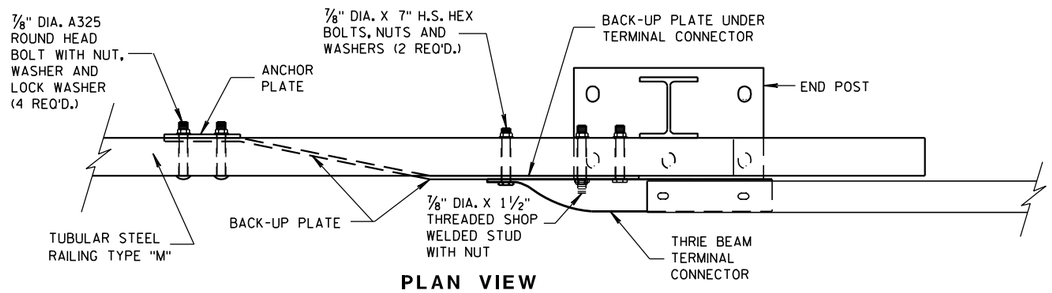


FRONT VIEW

ANCHOR AND BACK-UP PLATE MOUNTING TO BRIDGE RAILING, TYPE "M"



FRONT VIEW



PLAN VIEW

THRIE BEAM CONNECTION TO TUBULAR RAILING, TYPE "M"

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8-31-2012
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

229

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FHWA

GENERAL NOTES

COVER PLATE PANELS ARE 3/16" THICK.

ALL STIFFENERS ARE 1/4" THICK.

CONNECTOR PLATE SHALL BE FABRICATED FROM ASTM GRADE A36 STEEL AND GALVANIZED.

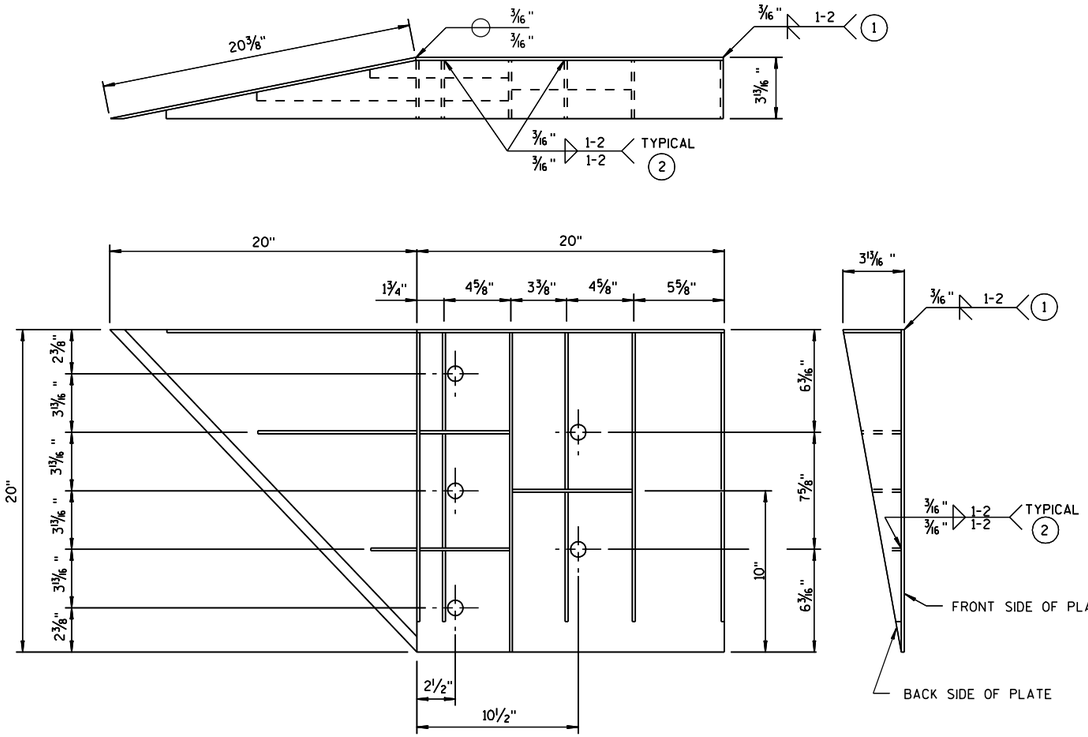
FOR GALVANIZED REQUIREMENTS, SEE SECTION 614 OF THE STANDARD SPECIFICATIONS.

ALL HOLE DIAMETERS SHALL BE 1".

FOR OPPOSITE SIDE INSTALLATION MIRROR DRAWINGS.

(1) STIFFENERS LOCATED AT THE OUTSIDE EDGES OF THE COVER PLATES SHALL BE WELDED AS FOLLOWS:
SINGLE BEVEL GROOVE WELD ON EXTERNAL SIDES AND 3/16" FILLET WELD BY 1" LONG SPACED AT 2" ON INTERNAL SIDES.

(2) STIFFENERS LOCATED ON THE INSIDE OF THE COVER PLATE SHALL BE WELDED AS FOLLOWS:
3/16" FILLET WELD BY 1" LONG SPACED AT 2".



WELDING INSTRUCTION

(VIEWED FROM BACK SIDE OF PLATE)

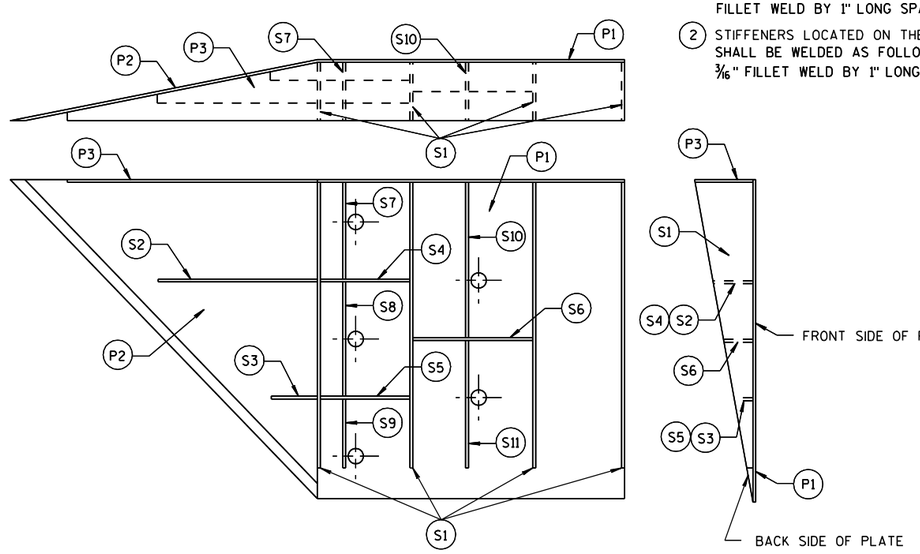


PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

CONNECTOR PLATE DIMENSION (PER ASSEMBLY)

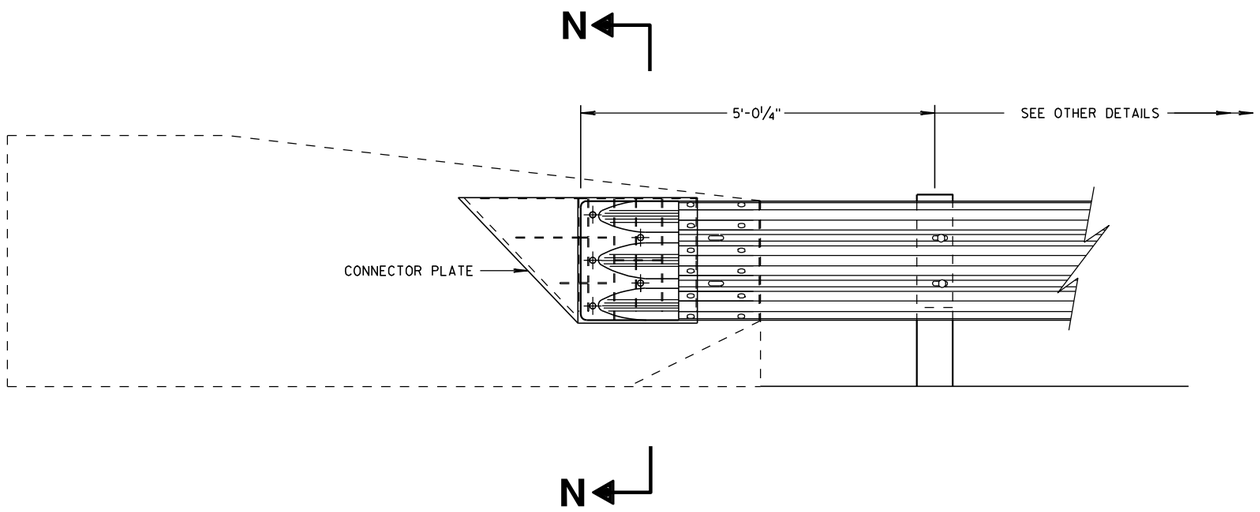
PLATE	QUANTITY	SHAPE	SIZE (A x B x C x D)	THICKNESS
P1	1		20" x 20"	3/16"
P2	1		20" x 20" x 28 9/16"	3/16"
P3	1		39" x 3 5/8" x 20" x 19 5/16"	3/16"
S1	4		18 7/16" x 3 5/8" x 18 3/4"	1/4"
S2	1		10 1/4" x 2 7/16" x 10 3/8" x 1/2"	1/4"
S3	1		3" x 1 1/16" x 3 1/8" x 1/2"	1/4"
S4	1		6 1/8" x 2 7/16"	1/4"
S5	1		6 1/8" x 1 1/16"	1/4"
S6	1		7 3/4" x 1 3/4"	1/4"
S7	1		2 9/16" x 6" x 3 5/8" x 5 7/8"	1/4"
S8	1		1 5/32" x 7 1/2" x 2 1/2" x 7 3/8"	1/4"
S9	1		6 1/16" x 6 3/16" x 1 3/32"	1/4"
S10	1		1 7/8" x 9 7/8" x 3 5/8" x 9 11/16"	1/4"
S11	1		8 1/2" x 8 3/4" x 1 13/16"	1/4"

SINGLE SLOPE CONNECTION PLATE

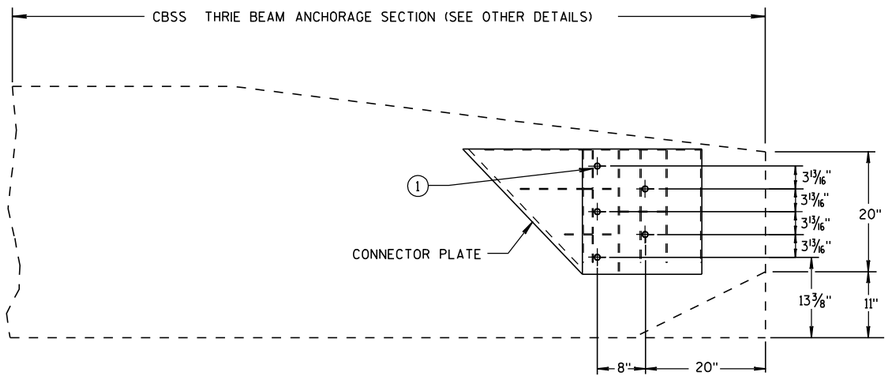
MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/31/2012 DATE
/S/ Jerry H ---- ROADWAY STANDARDS ENGINEER
FHWA



THRIE BEAM CONNECTION TO SINGLE SLOPE BARRIER

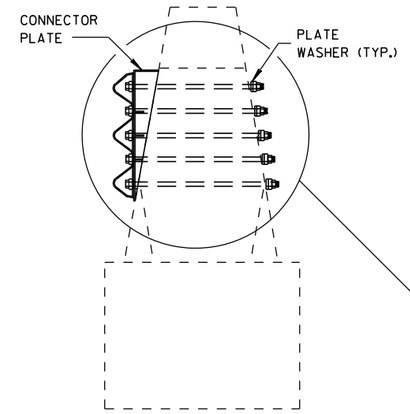


SINGLE SLOPE CONNECTION PLATE PLACEMENT

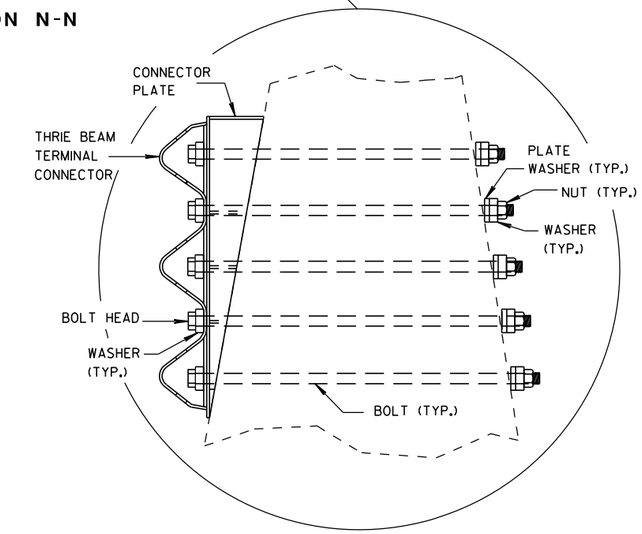
GENERAL NOTES

CONNECTOR PLATE, DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(1) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X ⅝" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



SECTION N-N



MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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8/31/2012
DATE

/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER

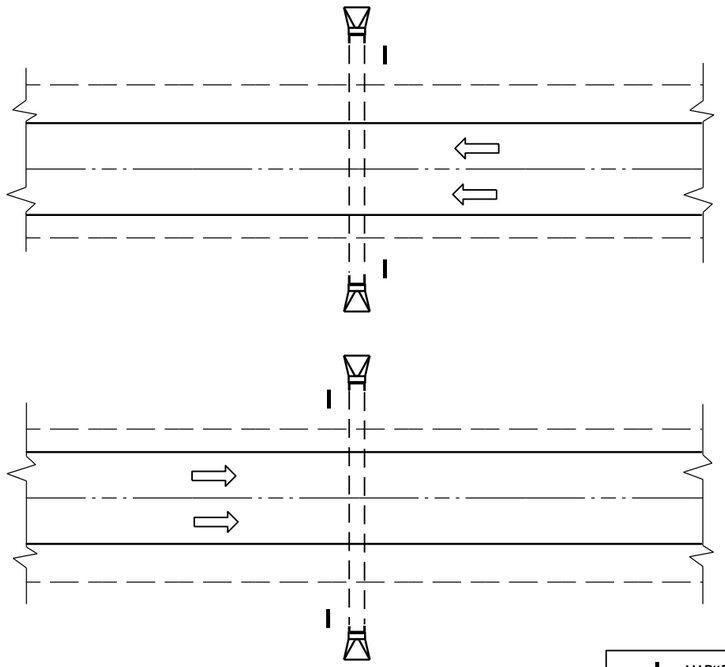
FHWA

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S.D.D. 14 B 45-3j

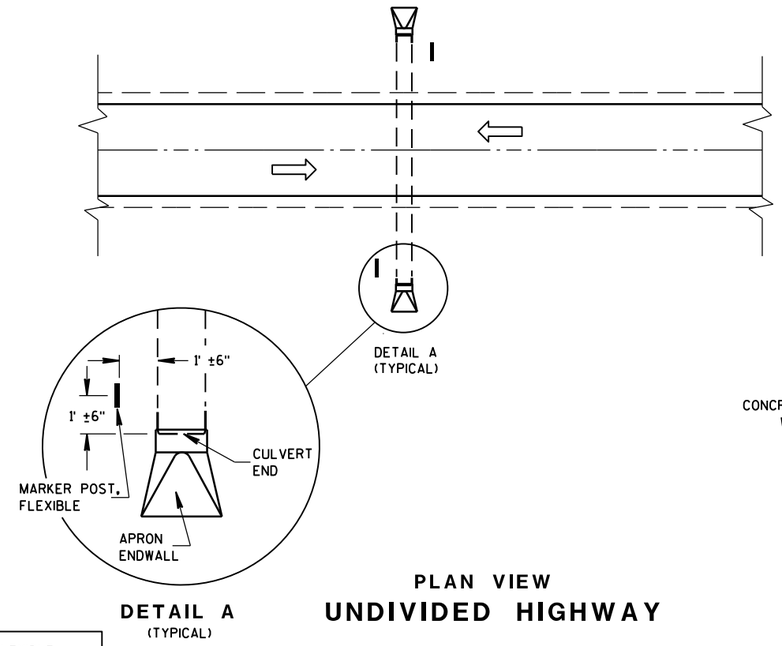
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S.D.D. 14 B 45-3j



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

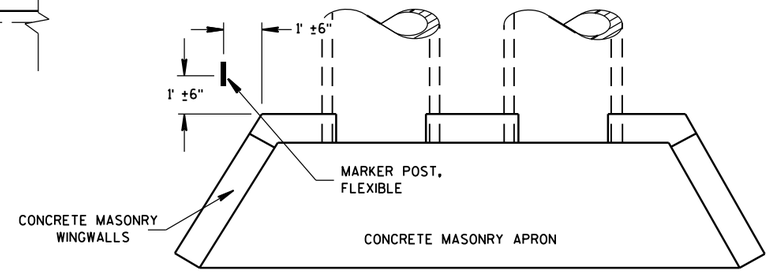
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

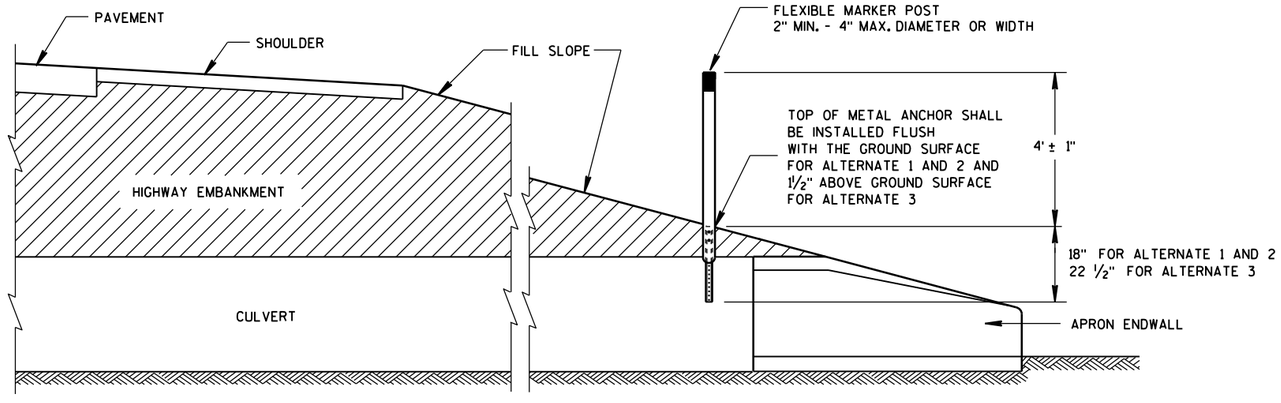
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

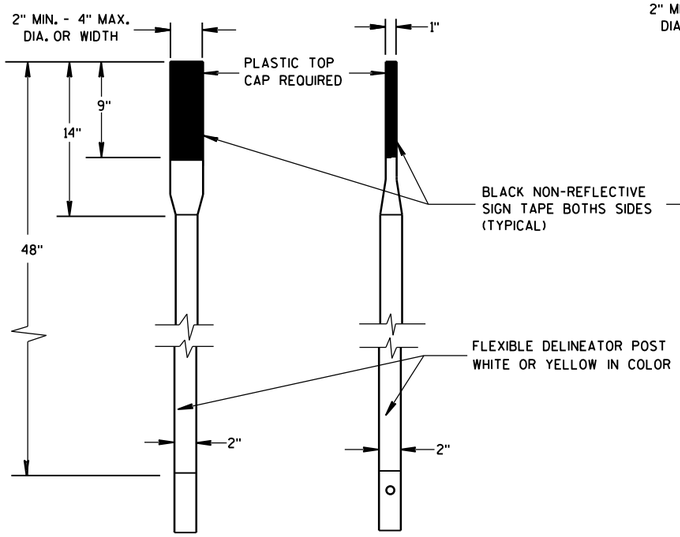
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

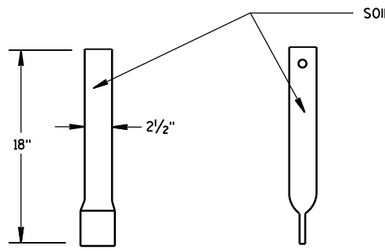
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S.D.D. 15 A 3-2a

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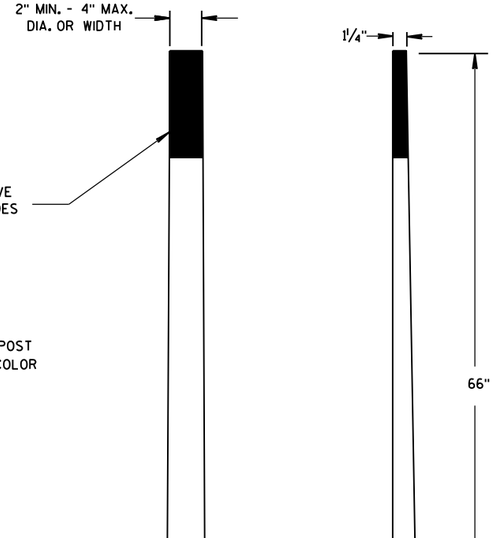
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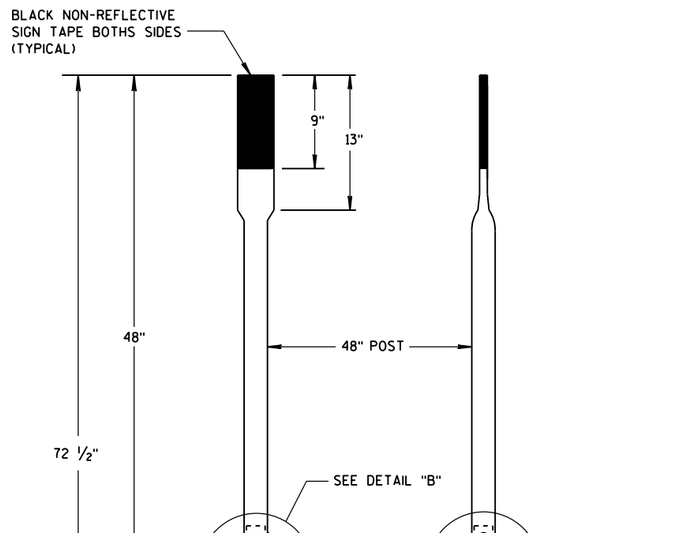
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

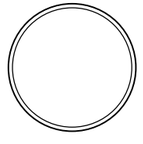
ALTERNATE 2



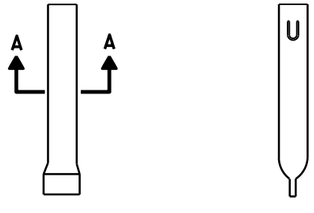
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POSTS

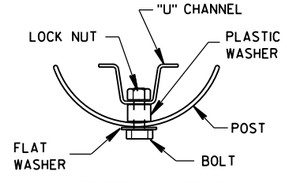


SECTION A-A

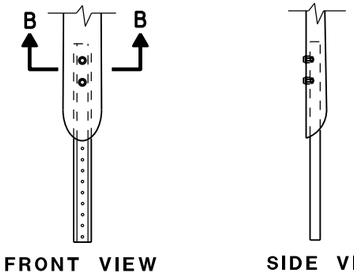


FRONT VIEW SIDE VIEW

ALTERNATE 1

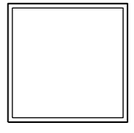


SECTION B-B

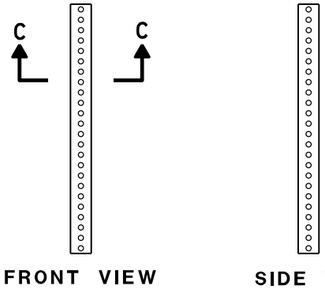


FRONT VIEW SIDE VIEW

ALTERNATE 2



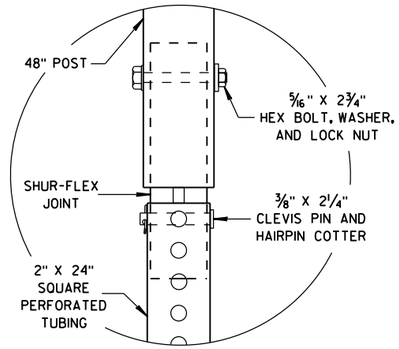
SECTION C-C



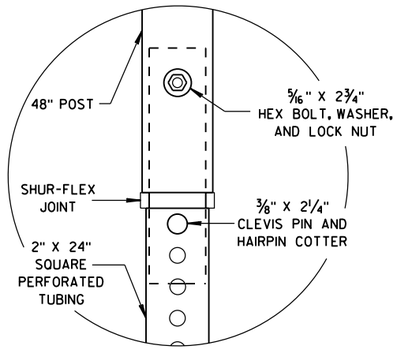
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/1/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

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S.D.D. 15 A 3-2b

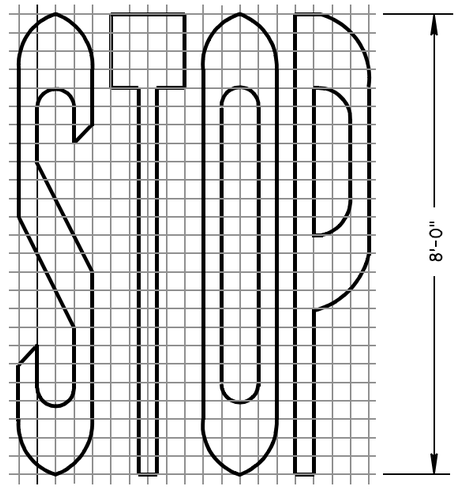
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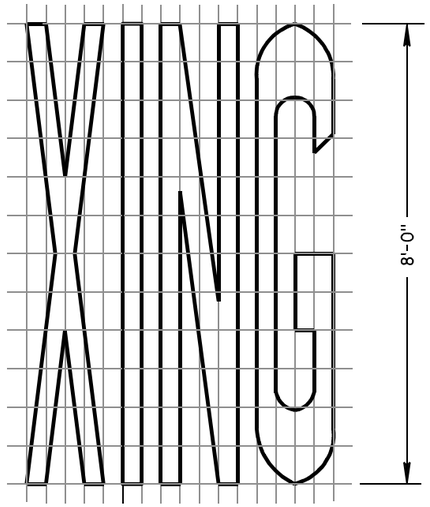
S.D.D. 15 A 3-2b

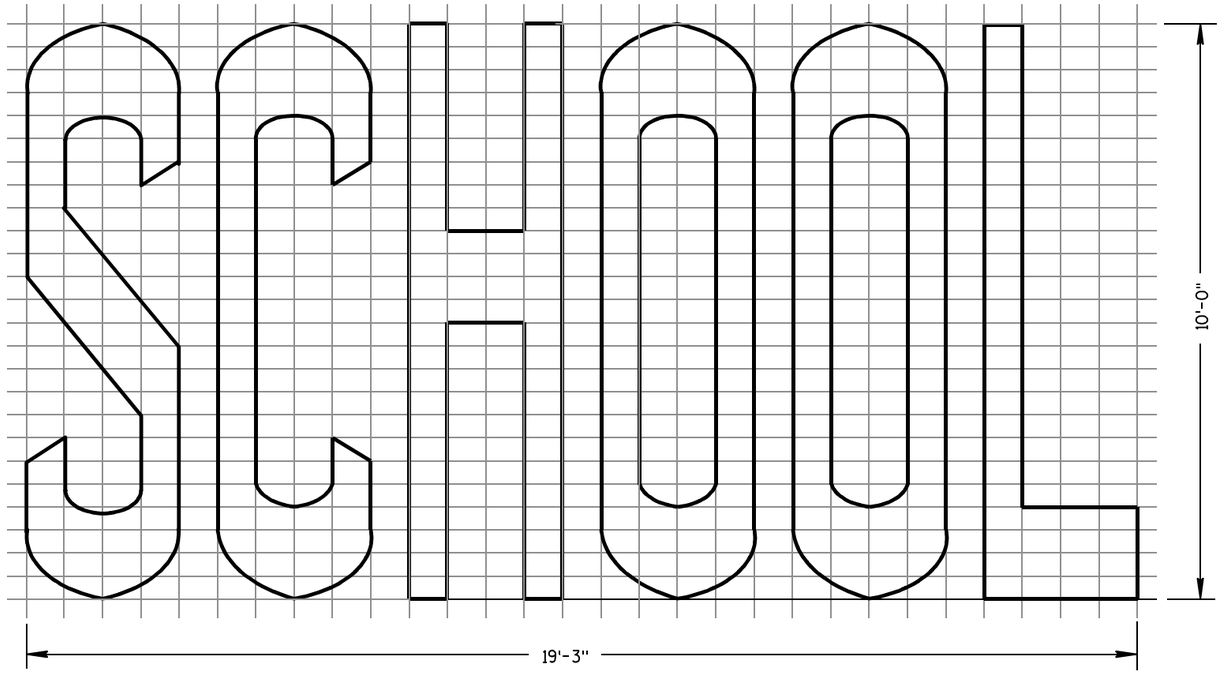
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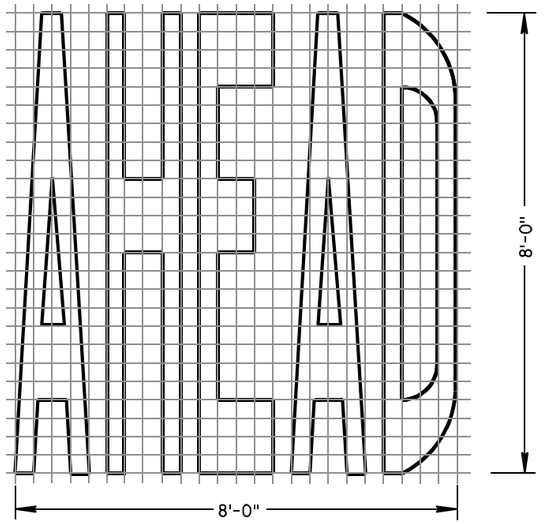
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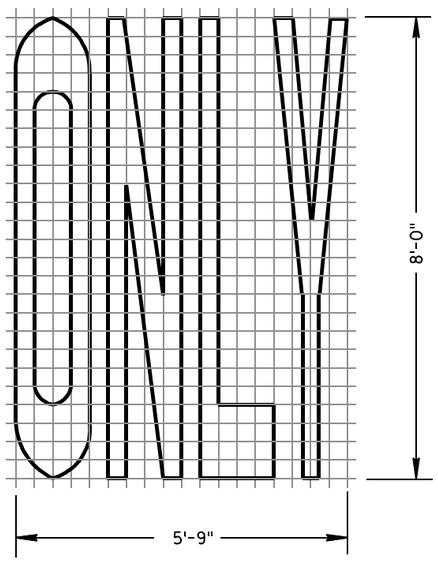


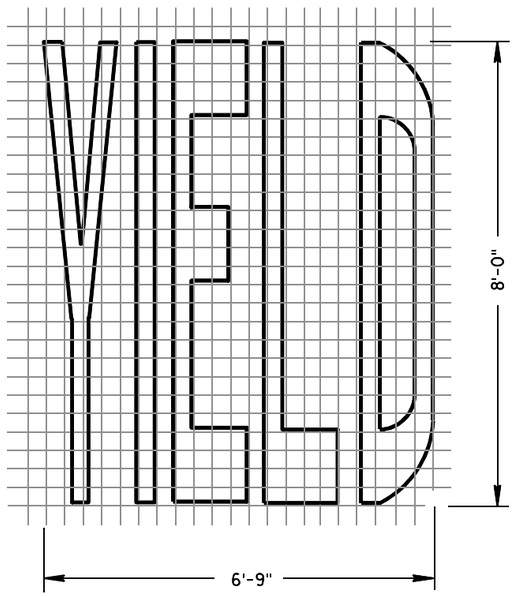


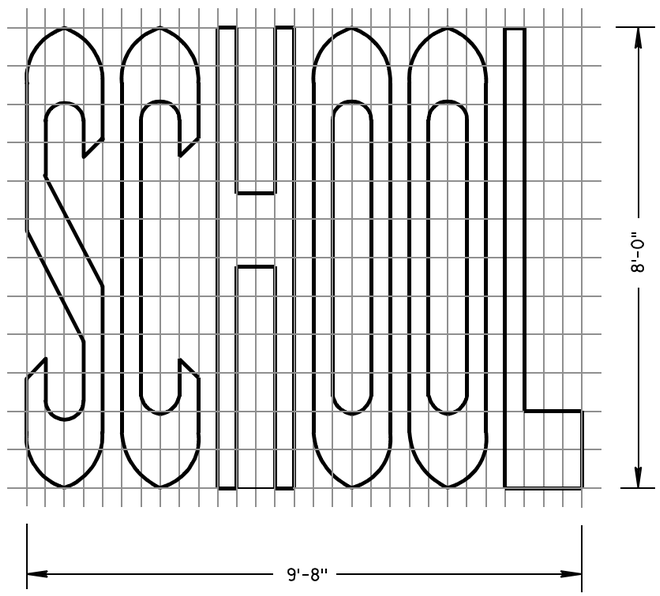


TWO-LANE









SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7-1-11 DATE — /S/ Thomas N. Nothohm STATE TRAFFIC ENGINEER

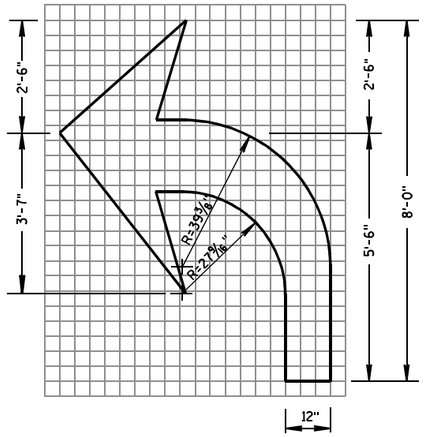
FHWA

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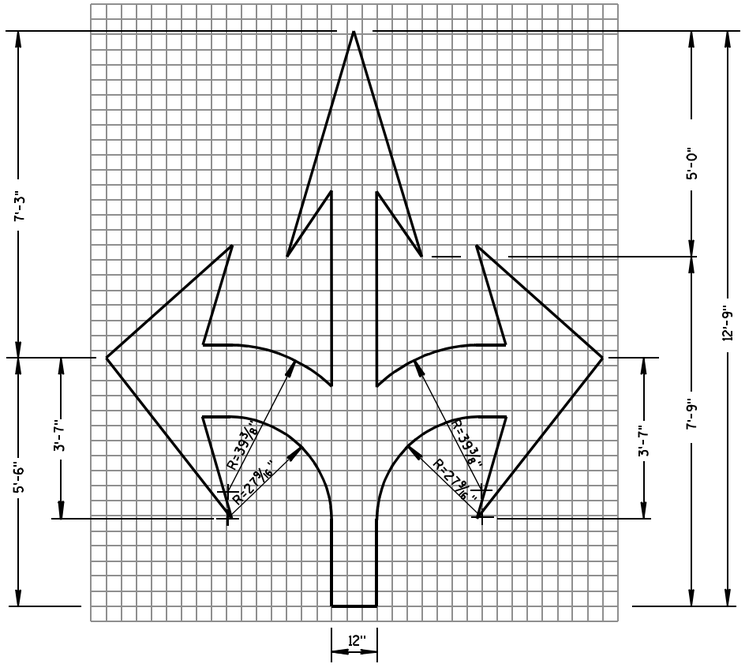
S.D.D. 15 C 7-12b

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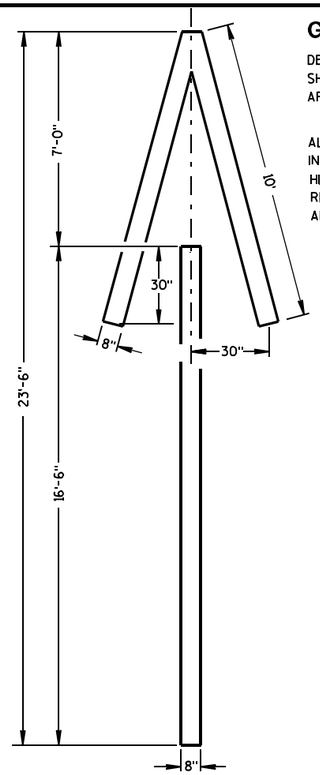
S.D.D. 15 C 7-12b



TYPE 2



TYPE 6

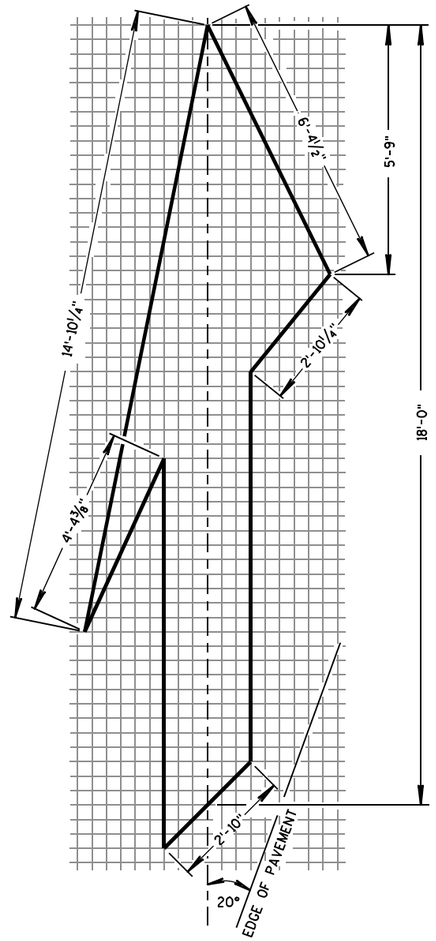


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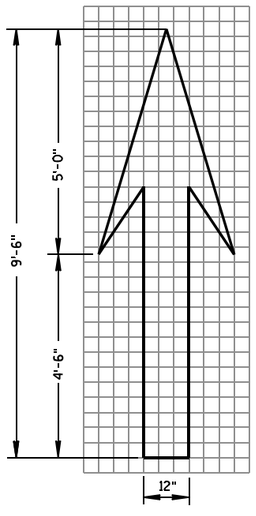
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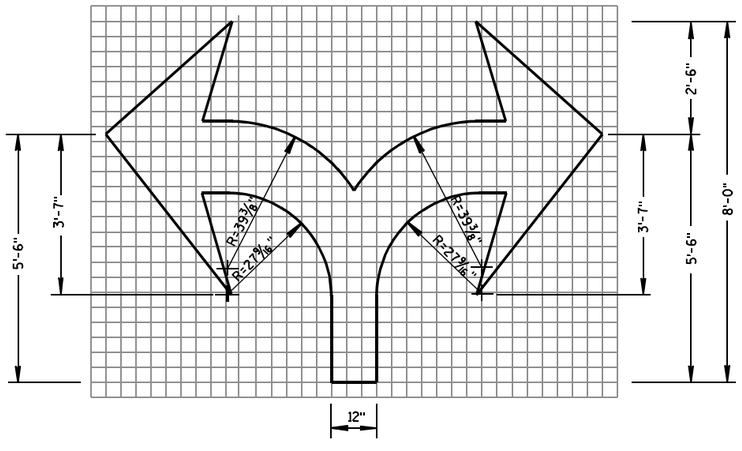
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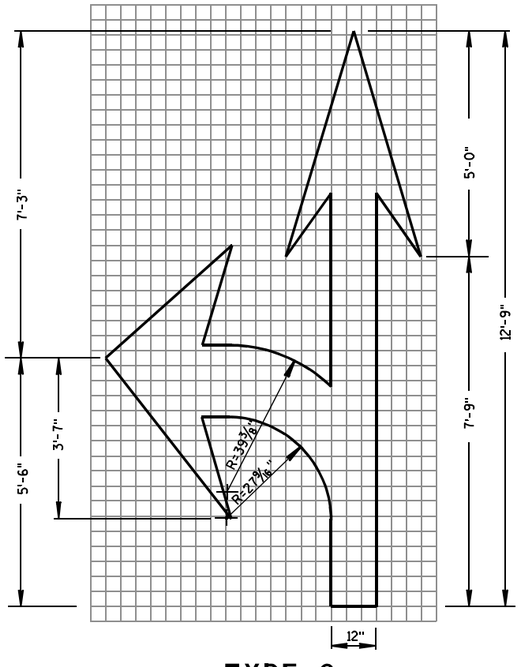
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/1/11 — DATE

/S/ Thomas N. Nothdurft — STATE TRAFFIC ENGINEER

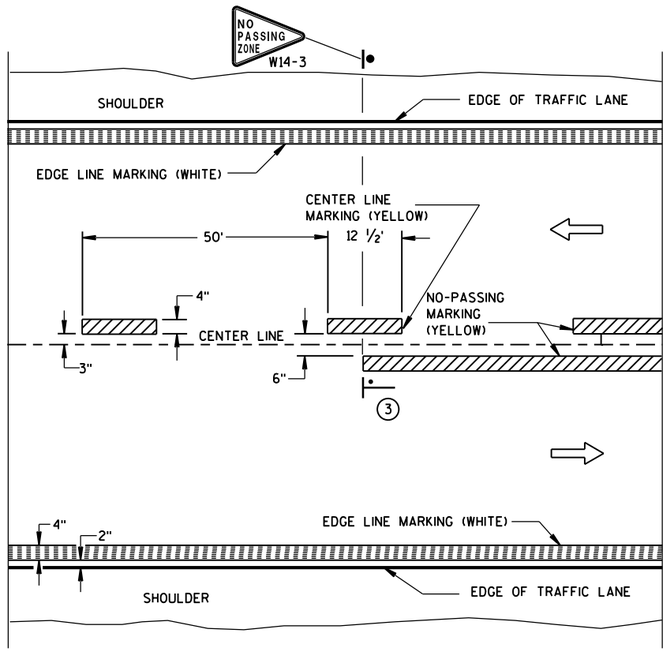
FHWA

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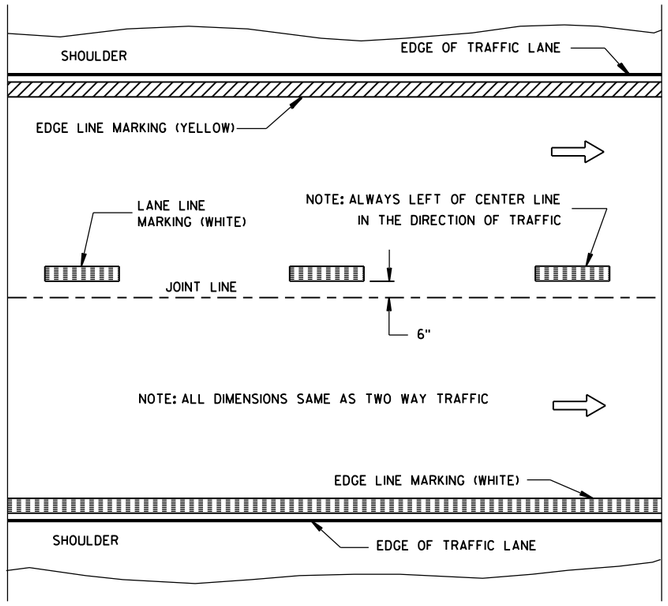
S.D.D. 15 C 7-12c

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S.D.D. 15 C 7-12c

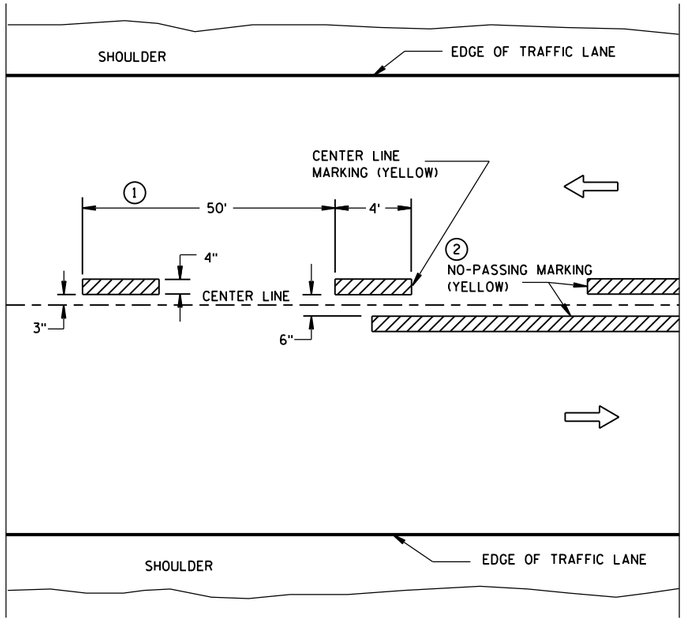


TWO WAY TRAFFIC

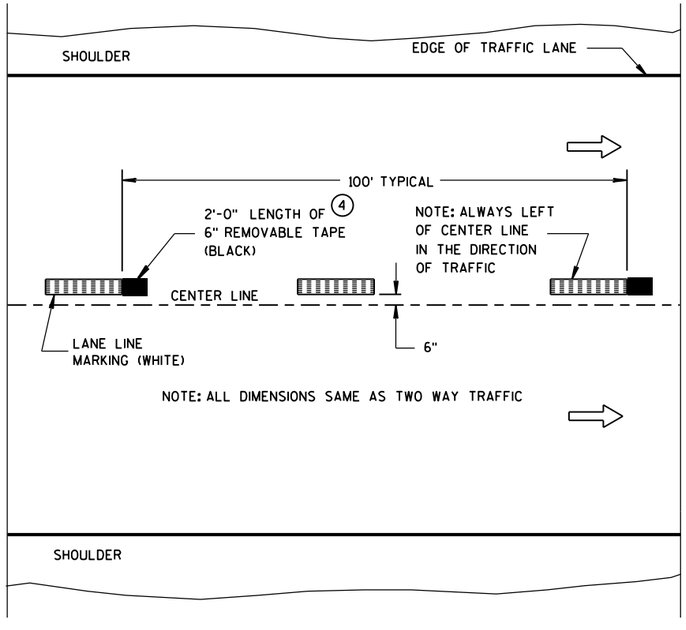


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING

(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

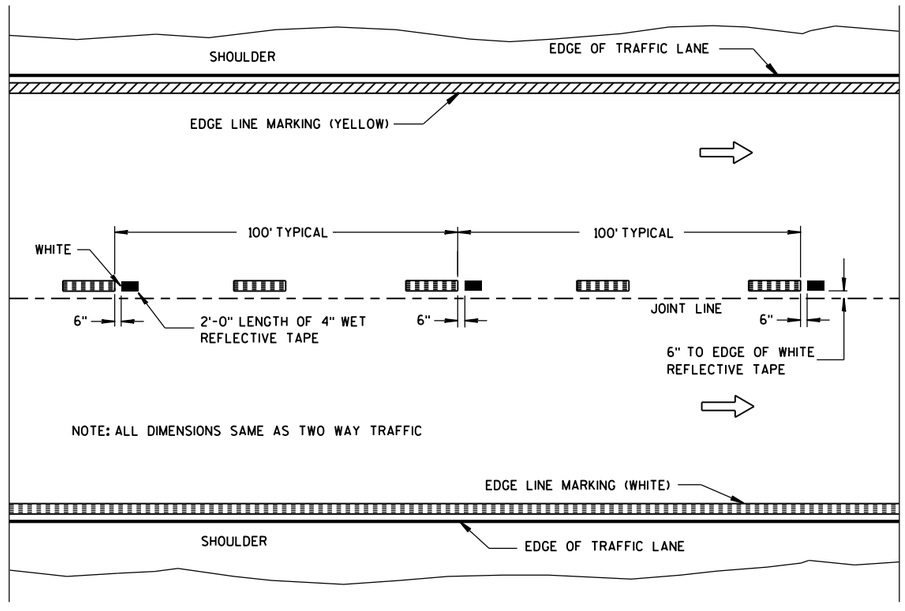
GENERAL NOTES

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.
4. CONCRETE ONLY.

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

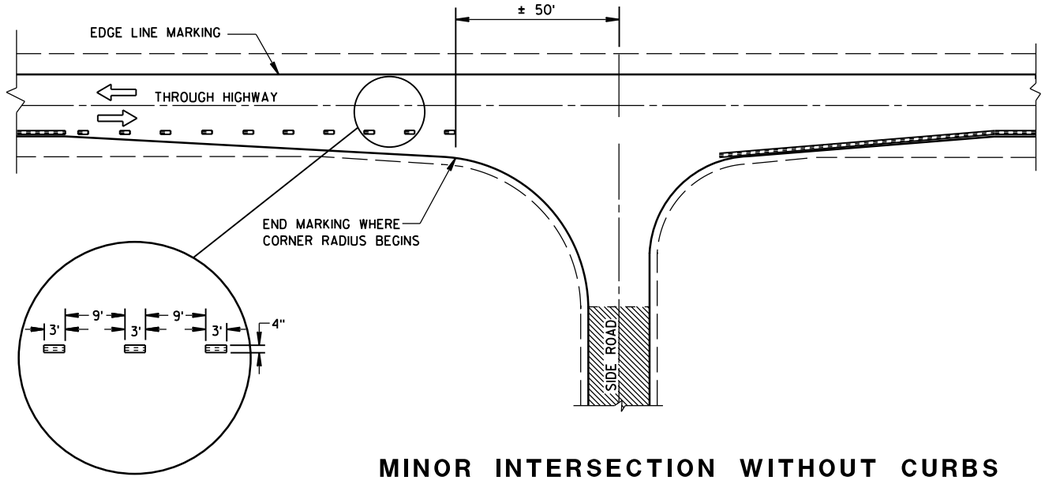
APPROVED
5-13-2013 DATE
/S/ Travis Feltes STATE TRAFFIC E
FHWA

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S.D.D. 15 C 8-16a

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S.D.D. 15 C 8-16a



MINOR INTERSECTION WITHOUT CURBS

GENERAL NOTES

EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.

(1) WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.

(2) WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.

(3) ALTERNATIVE MARKING SHALL BE PROVIDED WHEN SPECIFIED IN THE CONTRACT. TYPICAL SITUATIONS WHERE THIS MARKING MAY BE REQUIRED ARE WHERE THE INTERSECTION IS ON A SHARP HORIZONTAL CURVE OR CREST VERTICAL CURVE IN AN UNLIGHTED AREA SUCH THAT THE EDGE LINE MAY BE MISLEADING TO THE MOTORIST OR DISAPPEAR FROM SIGHT.

(4) THE EDGE LINE IN THE TAPER AREAS OF THE BYPASS LANE AND THE BYPASS LANE SHALL BE LOCATED 1-FOOT FROM EDGE OF PAVEMENT TO THE OUTSIDE EDGE OF EDGE LINE.

(5) BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.

(6) BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

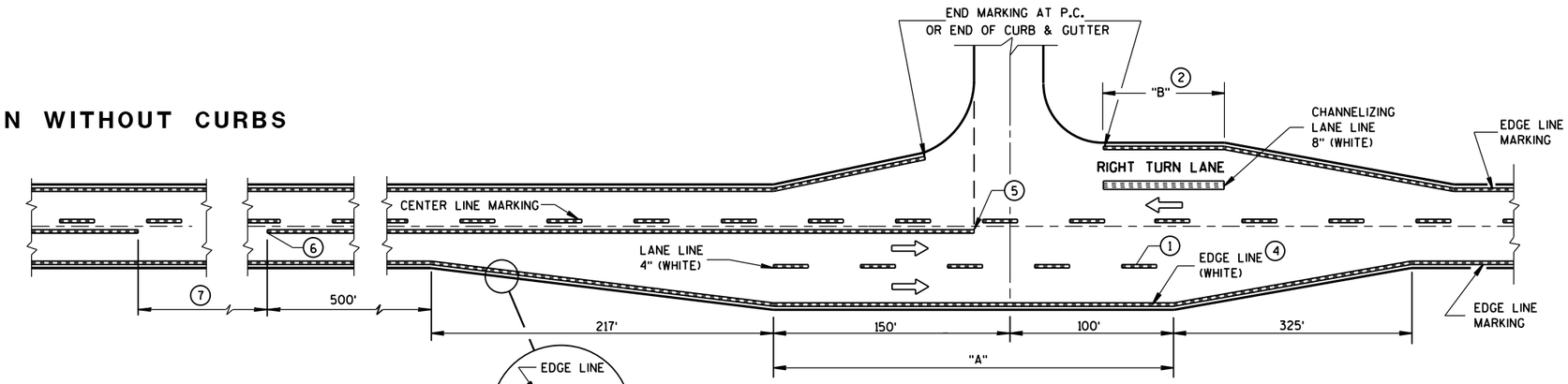
(7) IF THE DISTANCE BETWEEN 2 SUCCESSIVE NO-PASSING ZONES IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES, CONNECT THE 2 ZONES.

(8) 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

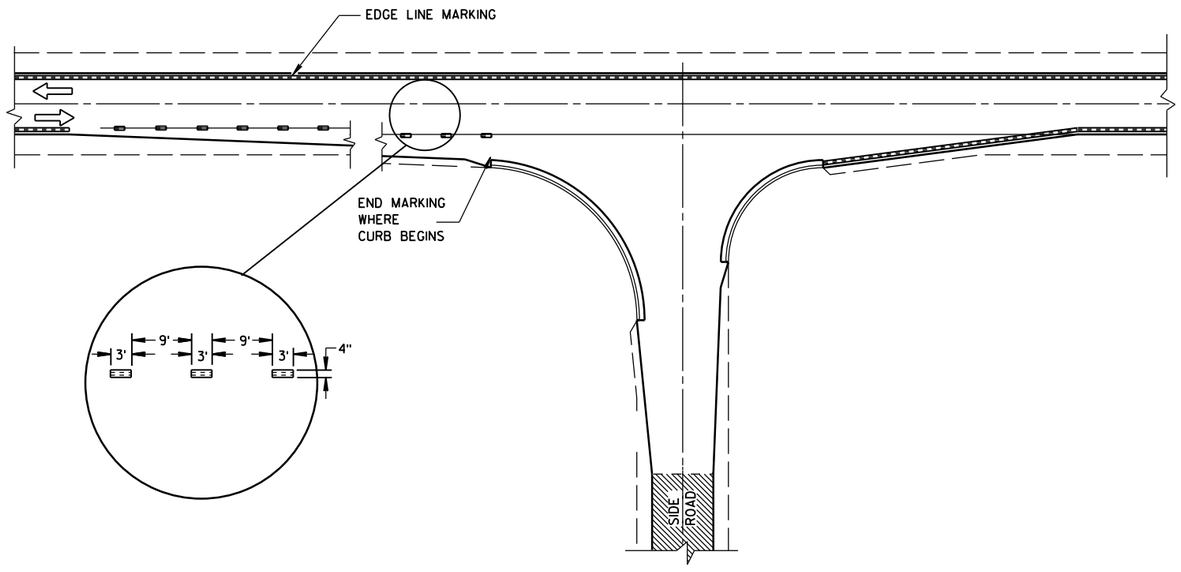
(7)

POSTED SPEED (MPH)	MINIMUM DISTANCE BETWEEN ZONES (FEET)
25 - 30	528
35 - 40	528
45 - 50	686
55	792



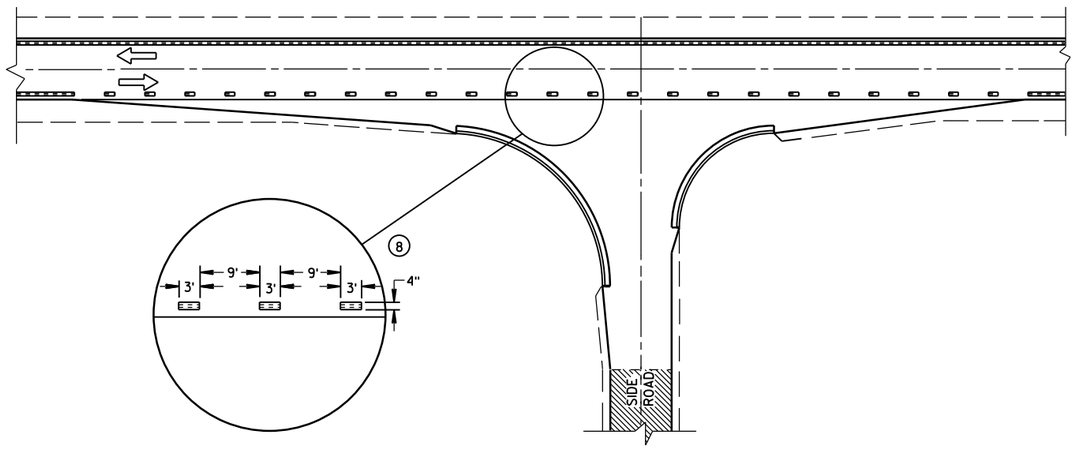
MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)



MINOR INTERSECTION WITH CURBS

(TYPICAL MARKING)



MINOR INTERSECTION WITH CURBS

(3) (FOR SPECIAL CONDITIONS AS SPECIFIED)

PAVEMENT MARKING
(INTERSECTIONS)

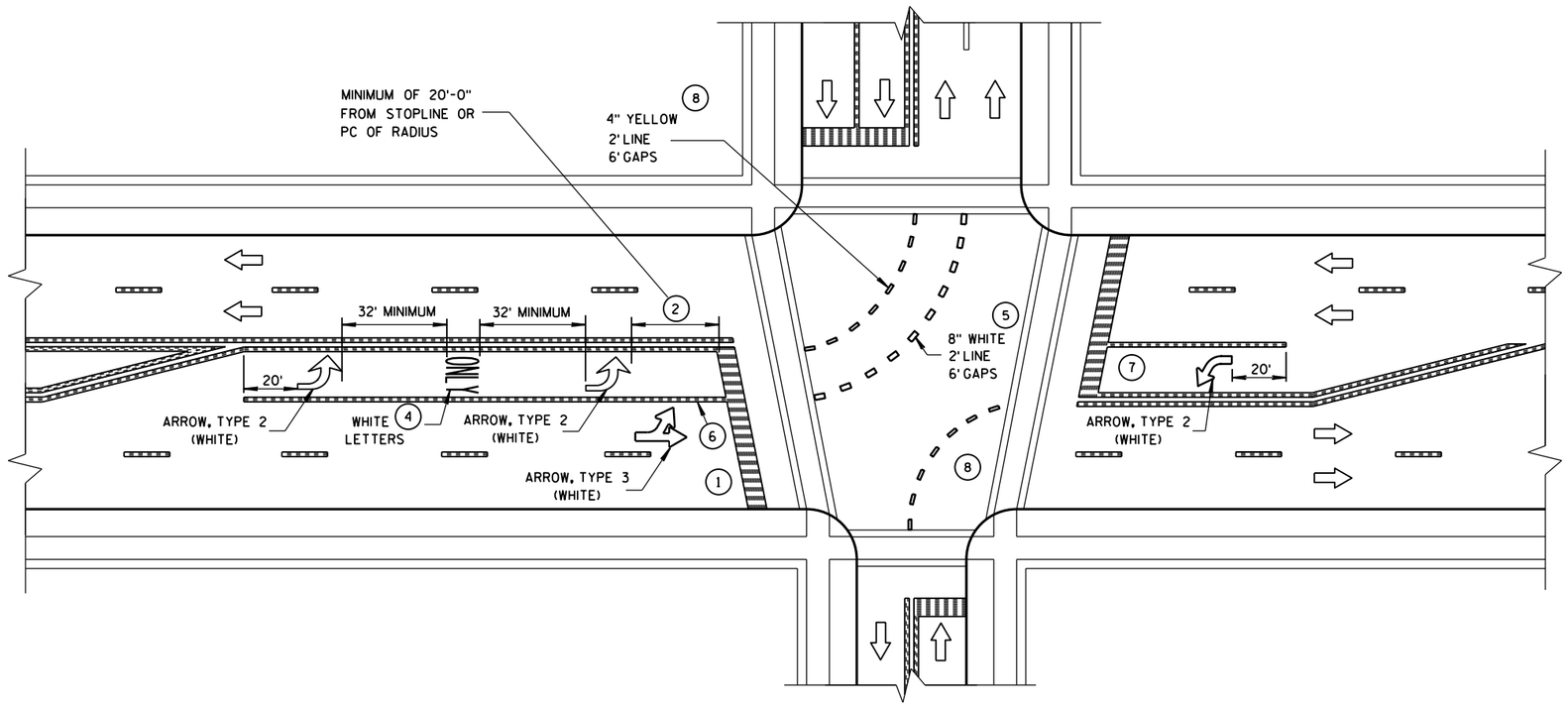
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 237

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S.D.D. 15 C 8-16b

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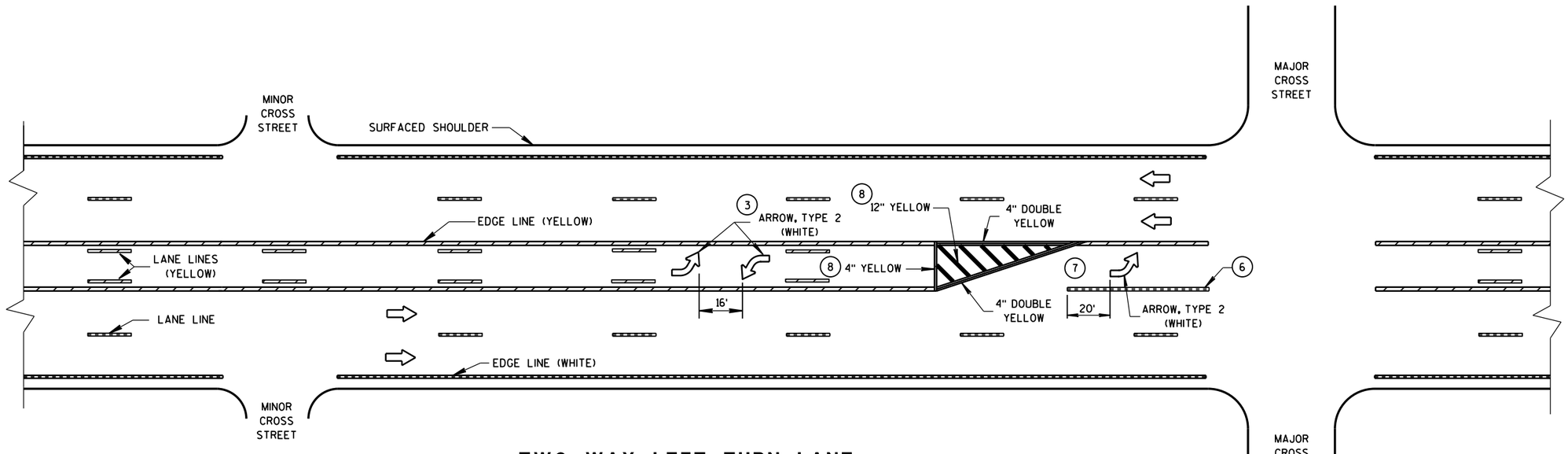
S.D.D. 15 C 8-16b



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 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
4. ADD EXTRA SETS OF ONE ARROW AND ONE ONLY PER 160 FEET 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 FEET.
8. REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL



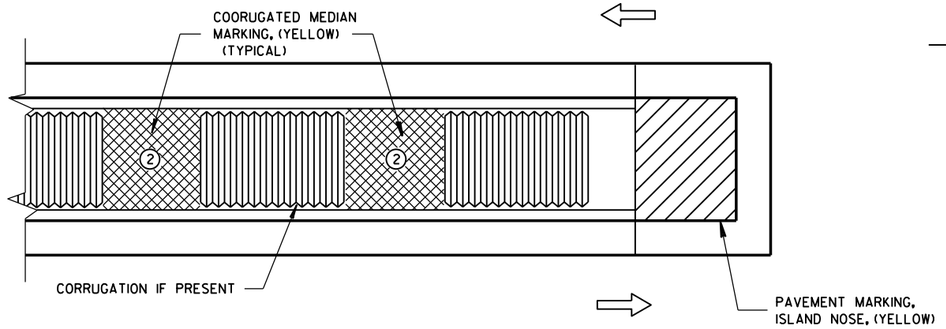
TWO WAY LEFT TURN LANE

PAVEMENT MARKING (LEFT TURN LANE)

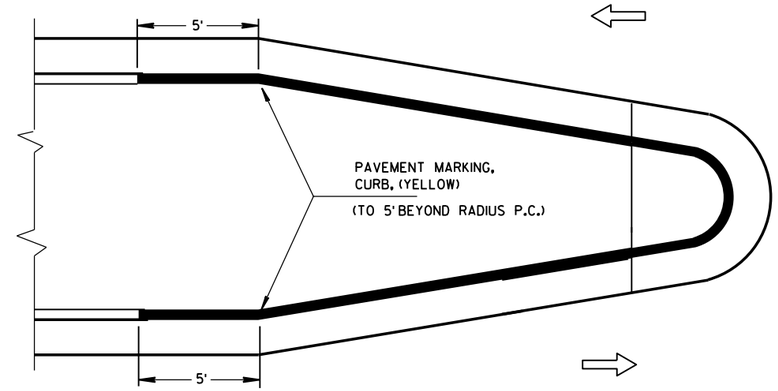
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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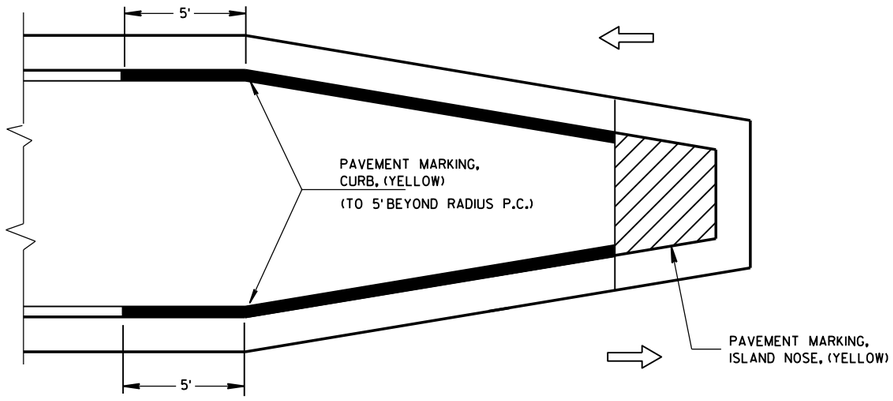
S.D.D. 15 C 8-16e



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

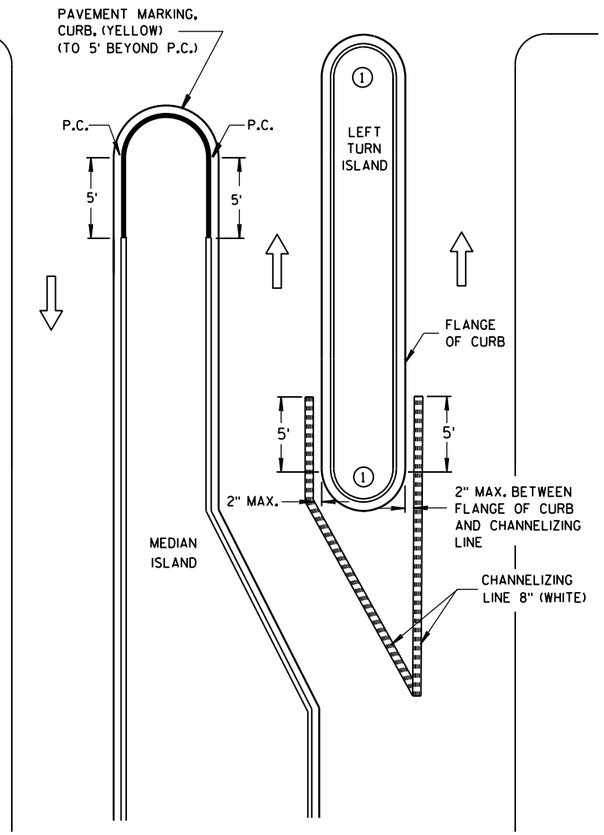


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

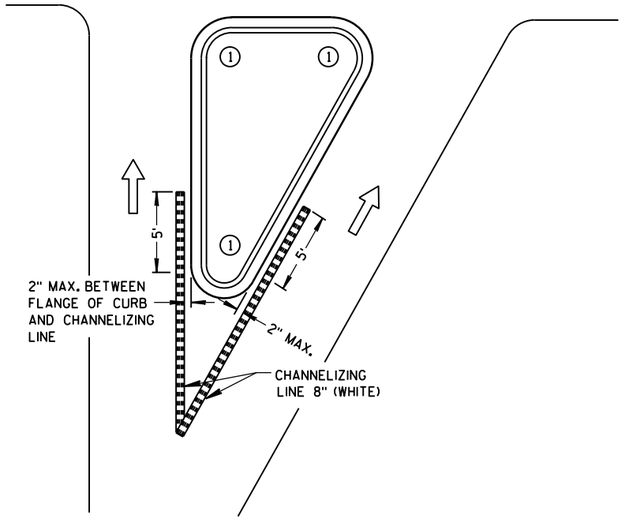


LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

1. DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.

2. 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

LEGEND

- ISLAND NOSE MARKING
- CURB MARKING
- CORRUGATED MEDIAN MARKING
- DIRECTION OF TRAVEL

PAVEMENT MARKING
(ISLANDS)

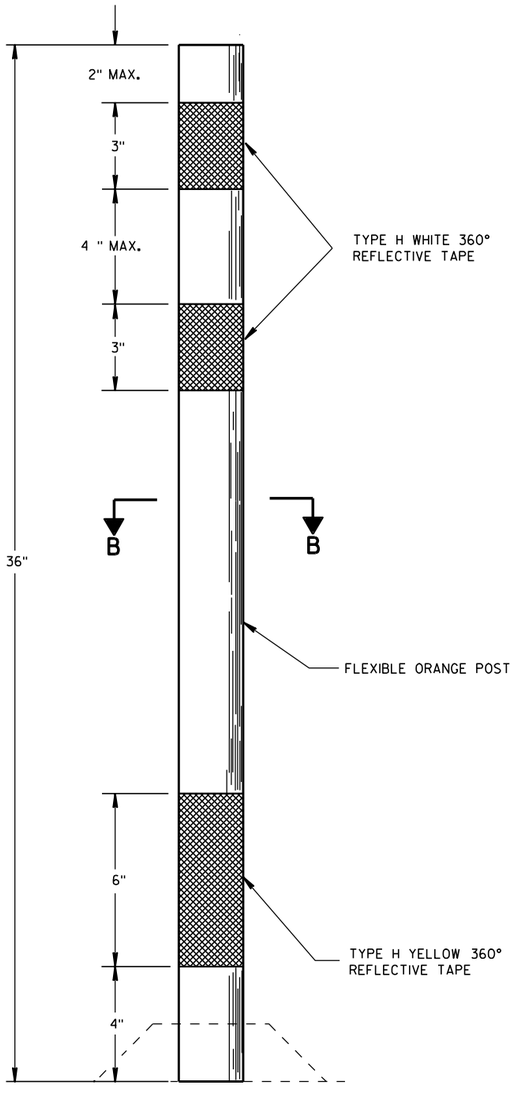
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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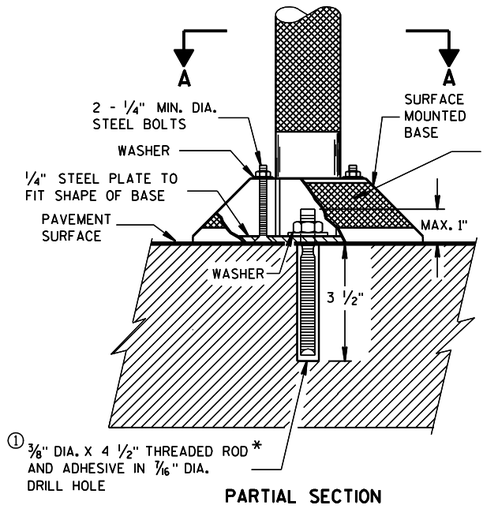
S.D.D. 15 C 8-16f

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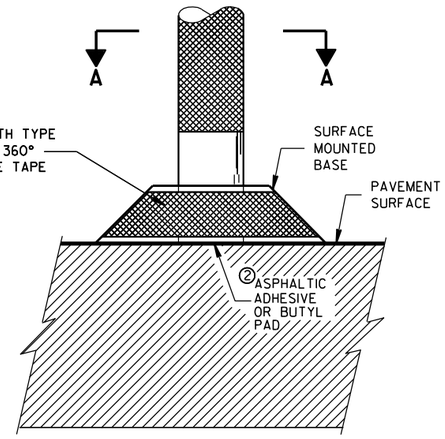
S.D.D. 15 C 8-16f



FLEXIBLE TUBULAR MARKER POST



PARTIAL SECTION TO SHOW BOLTS



POST BASES ON NEW OR EXISTING PAVEMENT

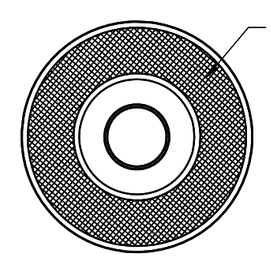
GENERAL NOTES

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.

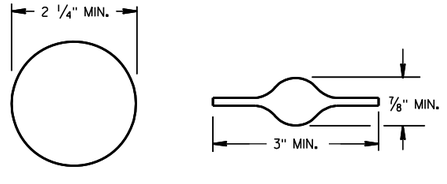
① THREADED ROD SHALL BE MACHINED DOWN TO 0.280 INCH DIA. 1 1/4 INCHES FROM THE TOP.

② THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.



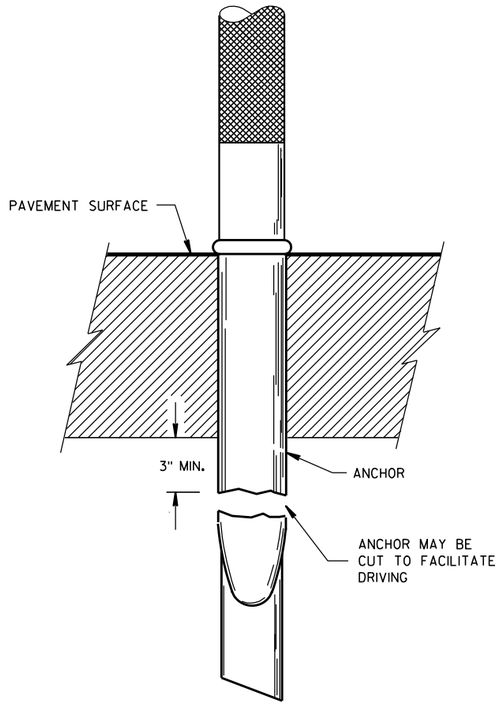
SECTION A-A

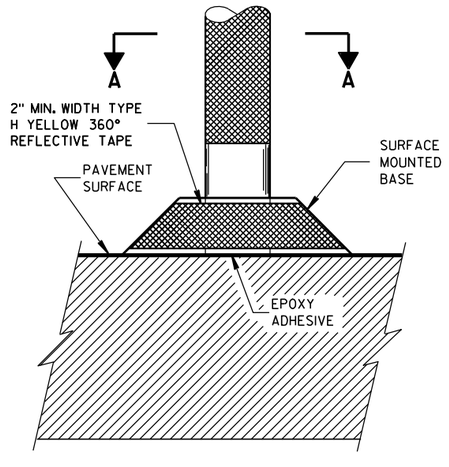
SURFACE MOUNTED BASE



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

/S/ Chester J. [illegible] DIRECTOR, OFFICE O

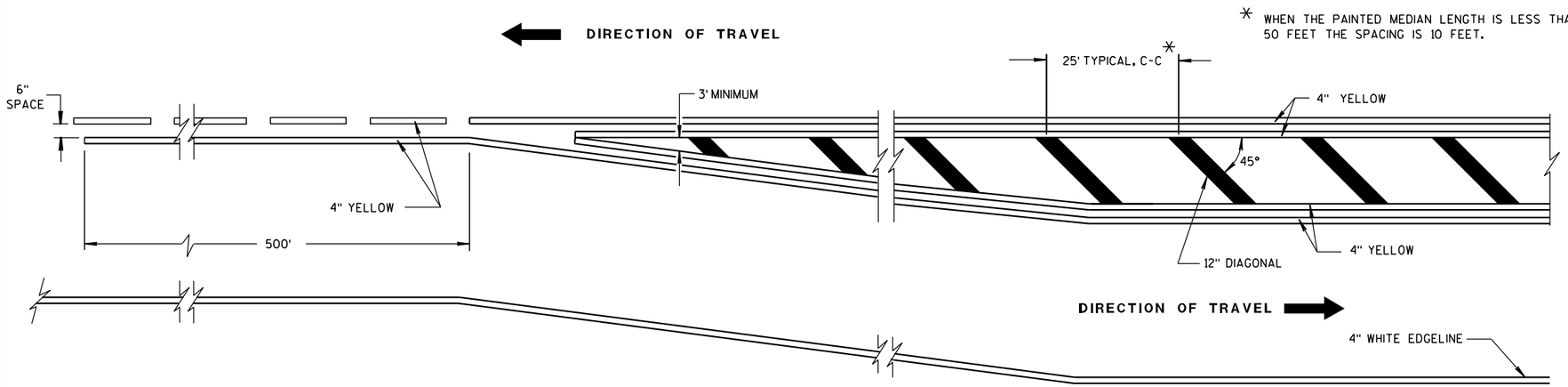
FHWA

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S.D.D. 15 C 11-5

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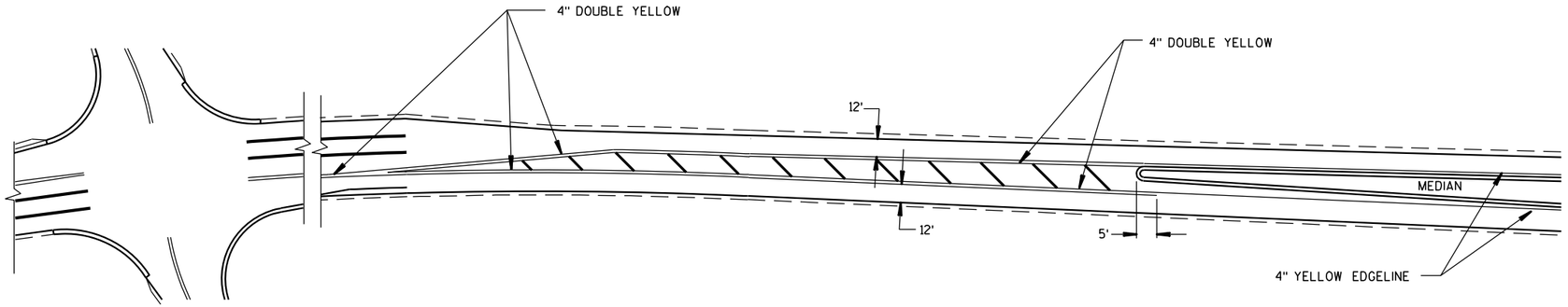
S.D.D. 15 C 11-5



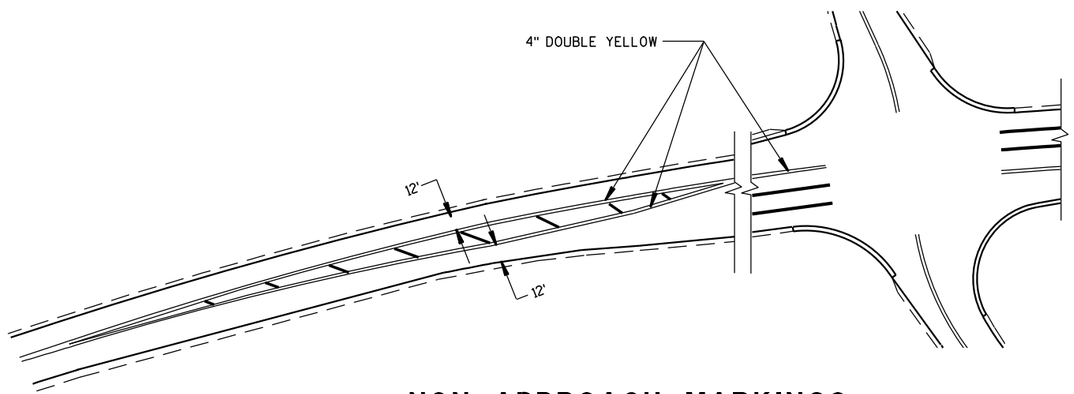
MEDIAN ISLAND DETAIL

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

6

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S.D.D. 15 C 18-3

S.D.D. 15 C 18-3

MEDIAN ISLAND MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

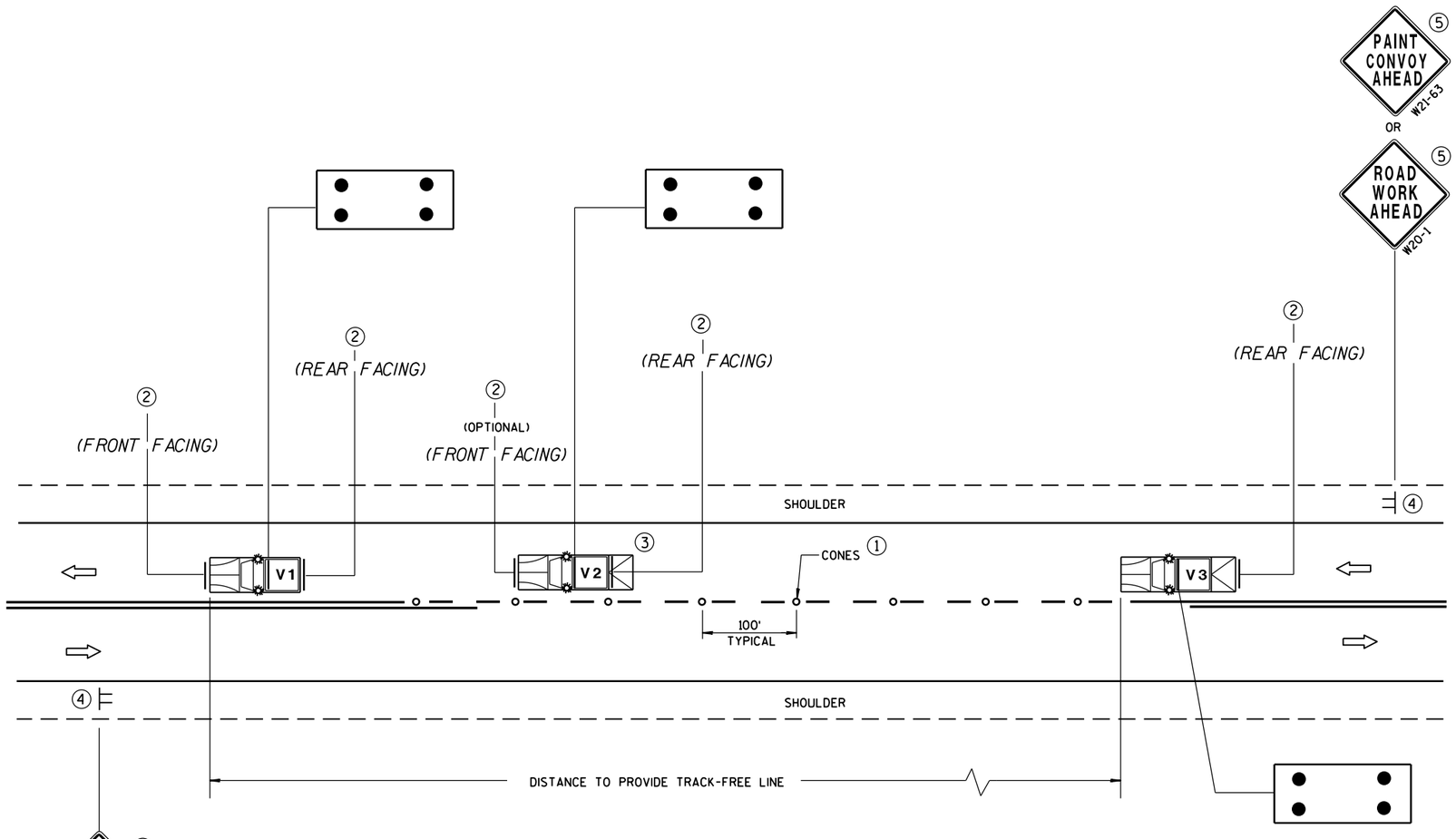
APPROVED

2-5-09 DATE

/S/ Thomas N. Nothohm
STATE TRAFFIC ENGINEER

241 IGN

FHWA



MOVING PAVEMENT MARKING OPERATIONS
TWO-LANE TWO-WAY ROADWAY

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE MARKING.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

(1) CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

(2) USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.

WET PAINT W21-64 OR WET PAINT W21-64

(3) OPTIONAL TRUCK-MOUNTED ATTENUATOR.

(4) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

(5) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

- **V1** LEAD VEHICLE
- **V2** SHADOW VEHICLE
- **V3** TRAIL VEHICLE WITH TMA
- **TMA** TRUCK-MOUNTED ATTENUATOR
- SIGN ON TEMPORARY SUPPORT
- DIRECTION OF TRAFFIC
- CONES
- FLASHING ARROW PANEL (CAUTION)

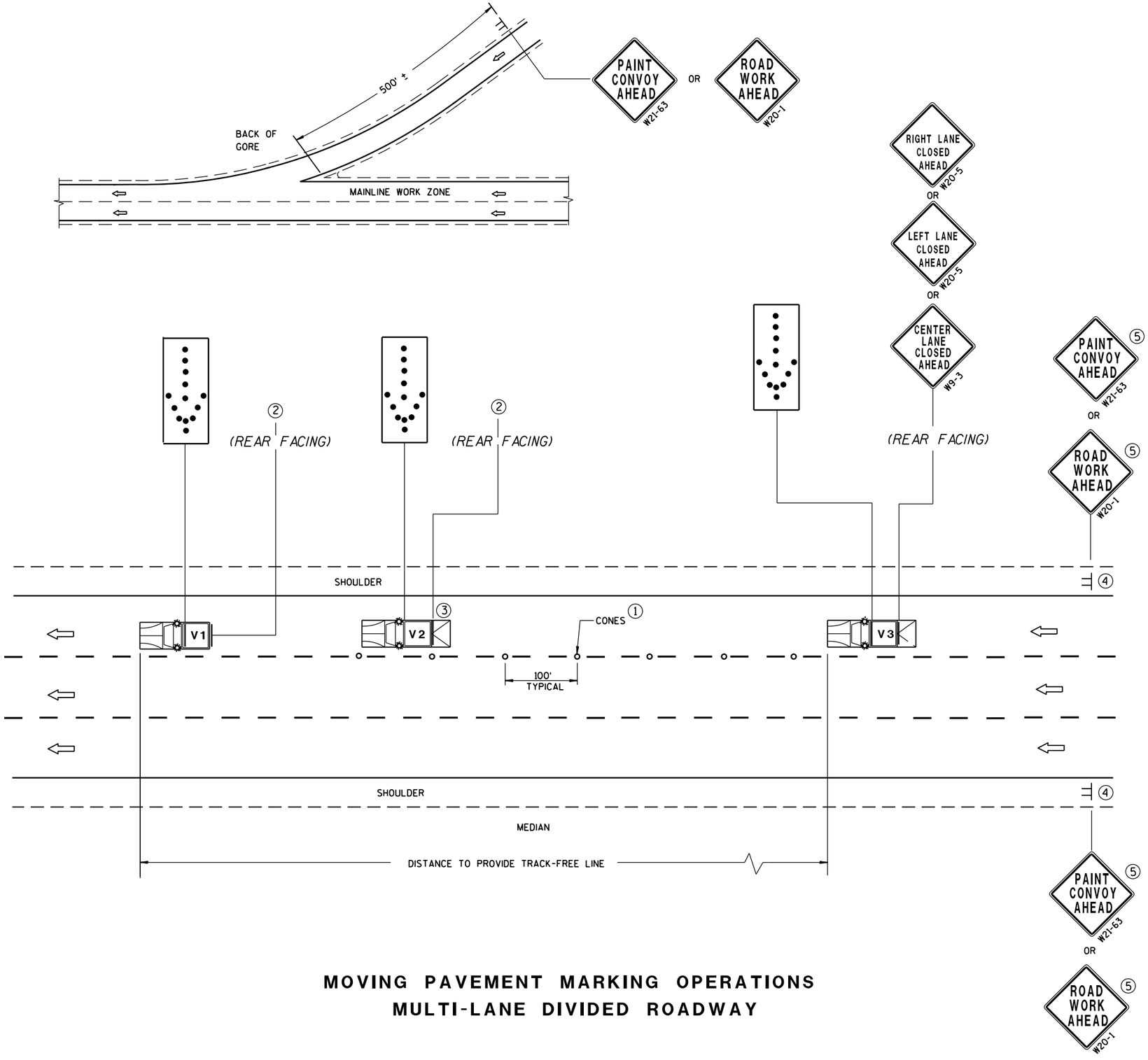
MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 5/3/2013 DATE	/S/ Travis Feltes STATE TRAFFIC E
FHWA	

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S.D.D. 15 C 19-2a

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S.D.D. 15 C 19-2a



MOVING PAVEMENT MARKING OPERATIONS
MULTI-LANE DIVIDED ROADWAY

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.

FOR EDGELINE MARKING OR IF CONES ARE NOT USED, POSITION THE REARMOST SHADOW VEHICLE ON THE SHOULDER AS SHOWN IN THE MUTCD IF THE SHOULDER HAS ADEQUATE WIDTH. USE DOUBLE ARROWS WHEN CONVOY IS IN CENTER LANE ONLY.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

THIS DRAWING SHALL BE USED FOR EDGELINE OR LANELINE MARKING FOR MULTILANE DIVIDED ROADWAYS.

① CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

② USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.

WET PAINT W21-64 OR WET PAINT W21-64

③ OPTIONAL TRUCK-MOUNTED ATTENUATOR.

④ SIGNS SHALL BE REPEATED AFTER EVERY ON RAMP OR EVERY THREE MILES.

⑤ IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

V1	LEAD VEHICLE
V2	SHADOW VEHICLE
V3	TRAIL VEHICLE WITH TMA
TMA	TRUCK-MOUNTED ATTENUATOR
	SIGN ON TEMPORARY SUPPORT
	DIRECTION OF TRAFFIC
	CONES
	FLASHING ARROW PANEL (MERGE)

MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/3/2013 DATE

/S/ Travis Feltes
STATE TRAFFIC EN

FHWA

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S.D.D. 15 C 19-2c

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S.D.D. 15 C 19-2c

GENERAL NOTES

SIGNING AND MARKING IS SHOWN AS TYPICAL PLACEMENT. FIELD CONDITIONS MAY DICTATE CHANGES IN SIGNING AND MARKING PLACEMENT.

A DISTANCE DEPENDENT ON SPEED (SEE TABLE)

(1) WRONG WAY PREVENTION SIGNS ARE DISCUSSED IN T G M 2-15-12

(2) REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT

SYMBOLS

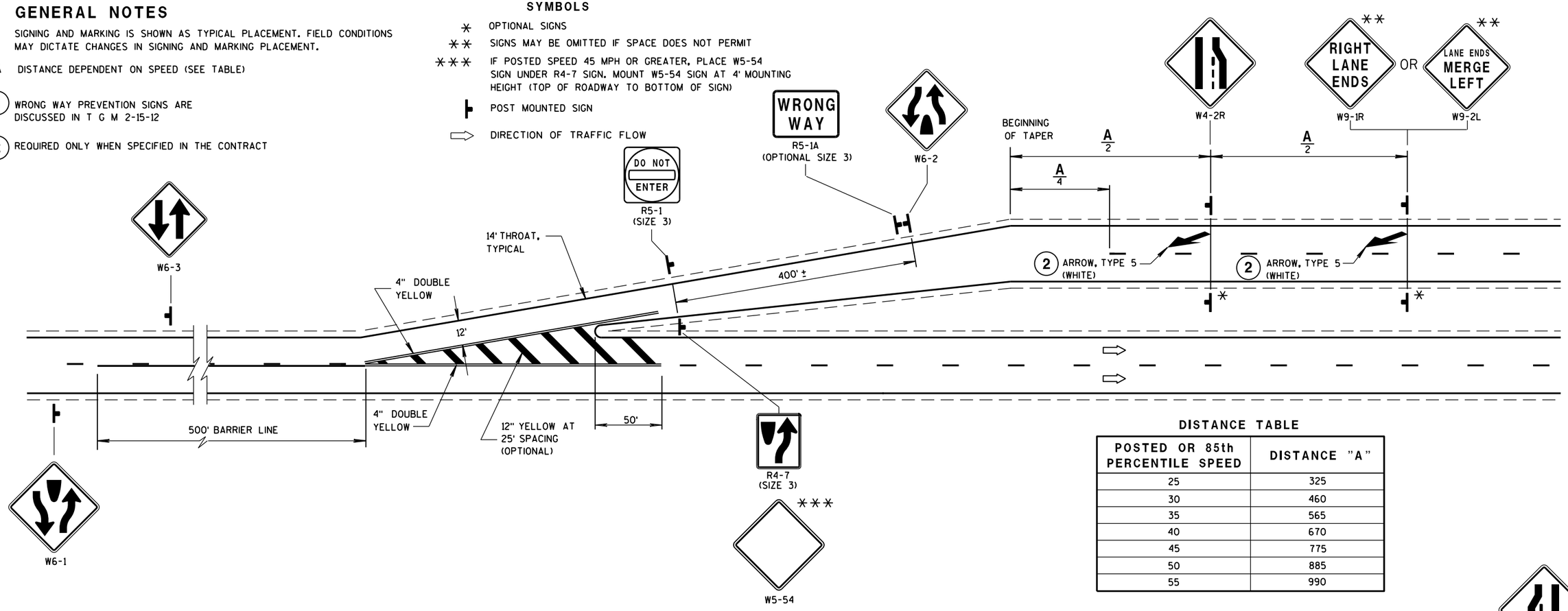
* OPTIONAL SIGNS

** SIGNS MAY BE OMITTED IF SPACE DOES NOT PERMIT

*** IF POSTED SPEED 45 MPH OR GREATER, PLACE W5-54 SIGN UNDER R4-7 SIGN. MOUNT W5-54 SIGN AT 4' MOUNTING HEIGHT (TOP OF ROADWAY TO BOTTOM OF SIGN)

POST MOUNTED SIGN

DIRECTION OF TRAFFIC FLOW



DISTANCE TABLE

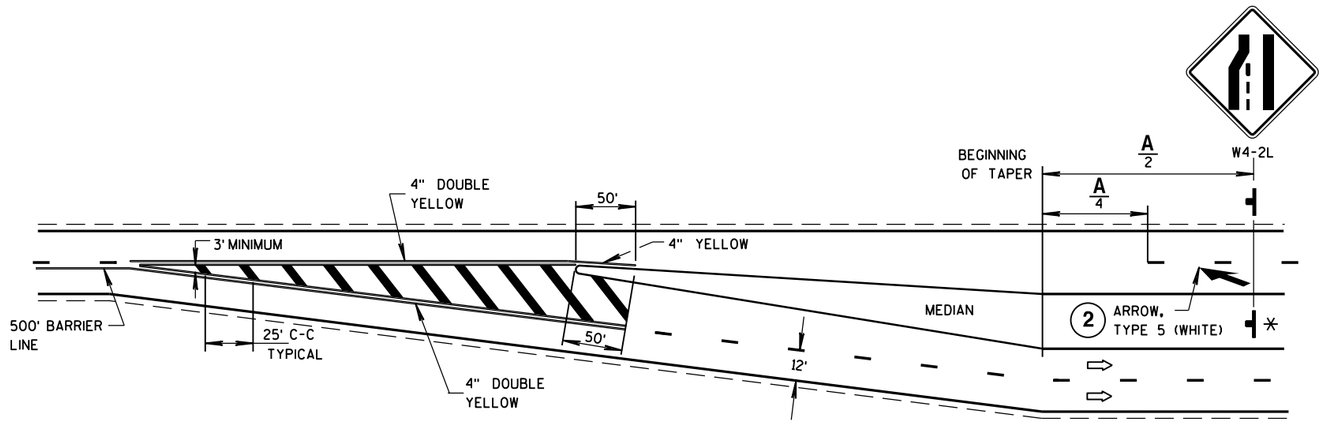
POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
25	325
30	460
35	565
40	670
45	775
50	885
55	990

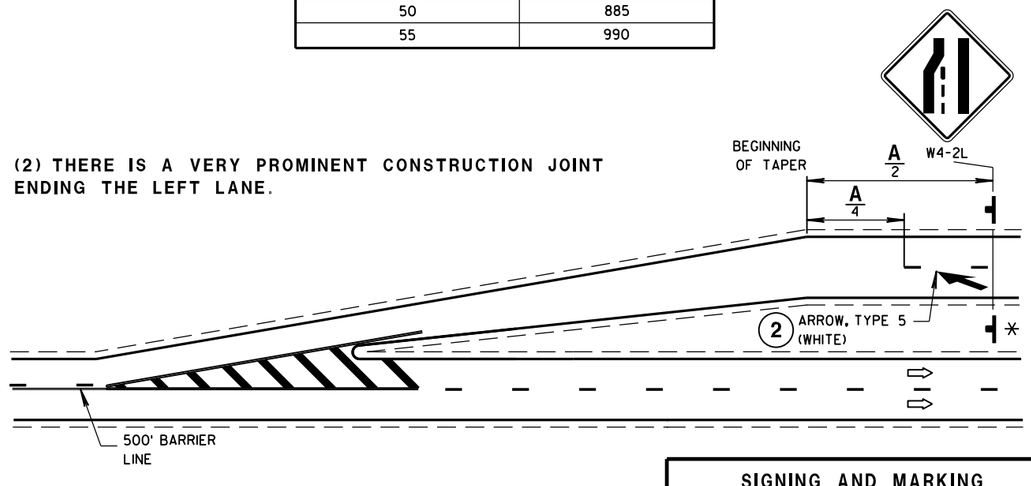
USE W4-2L IF :

(1) THE LEFT LANE IS PUSHED TO THE RIGHT:

OR

(2) THERE IS A VERY PROMINENT CONSTRUCTION JOINT ENDING THE LEFT LANE.





SIGNING AND MARKING
TWO LANE TO FOUR LANE DIVIDED TRANSITIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

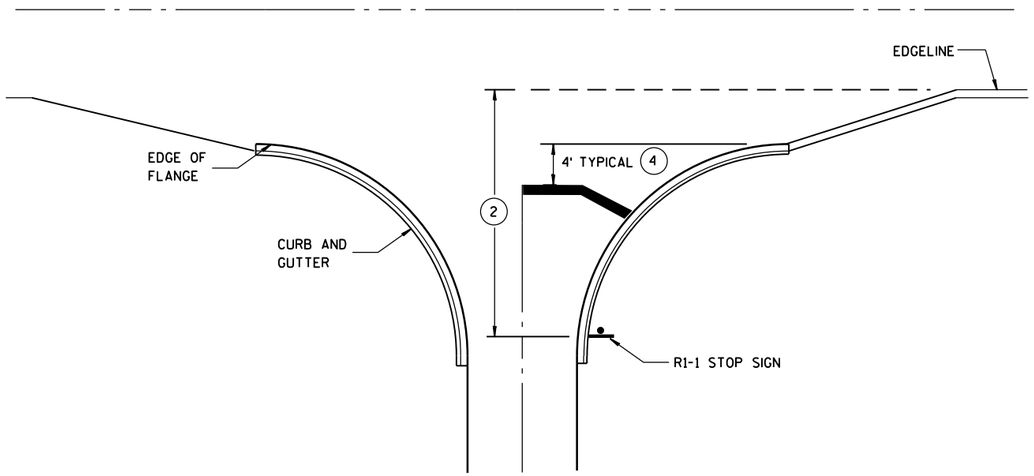
5/3/2013 DATE

/S/ Travis Feltes
STATE TRAFFIC EN

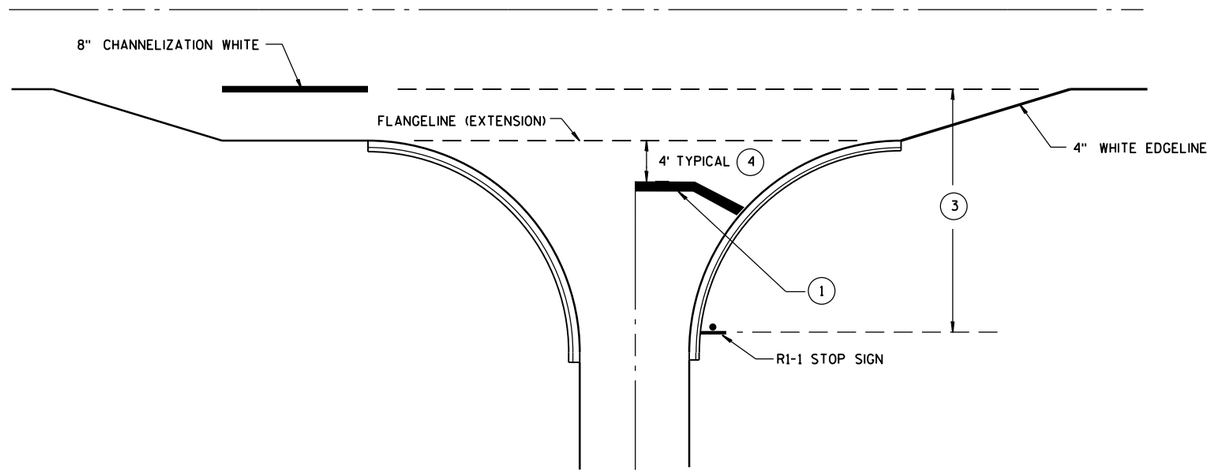
FHWA

S.D.D. 15 C 21-5

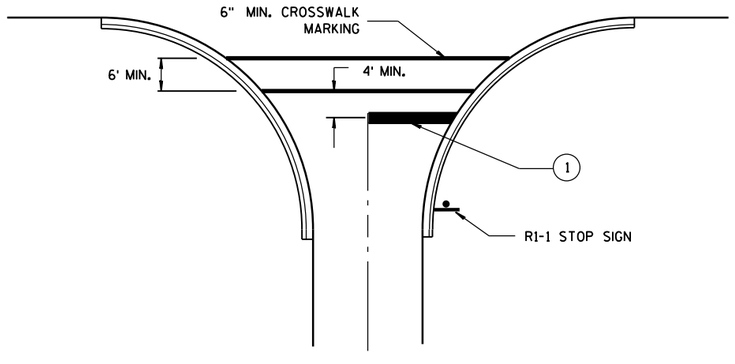
S.D.D. 15 C 21-5



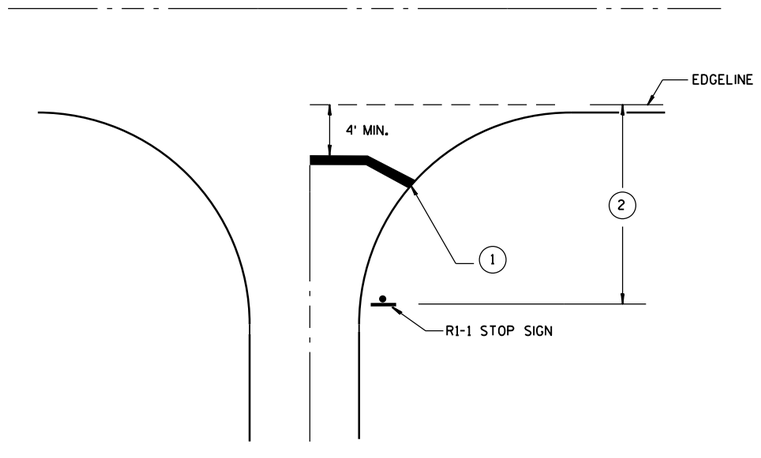
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.
3. IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.
4. MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES.

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4/30/2013
DATE

/S/ Travis Feltes
STATE TRAFFIC E

FHWA

6

S.D.D. 15 C 33-1

LEGEND

TYPE III BARRICADE

TYPE III BARRICADE WITH ATTACHED SIGN

TRAFFIC CONTROL DRUM

SIGN ON PERMANENT SUPPORT

TYPE "A" WARNING LIGHT (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.

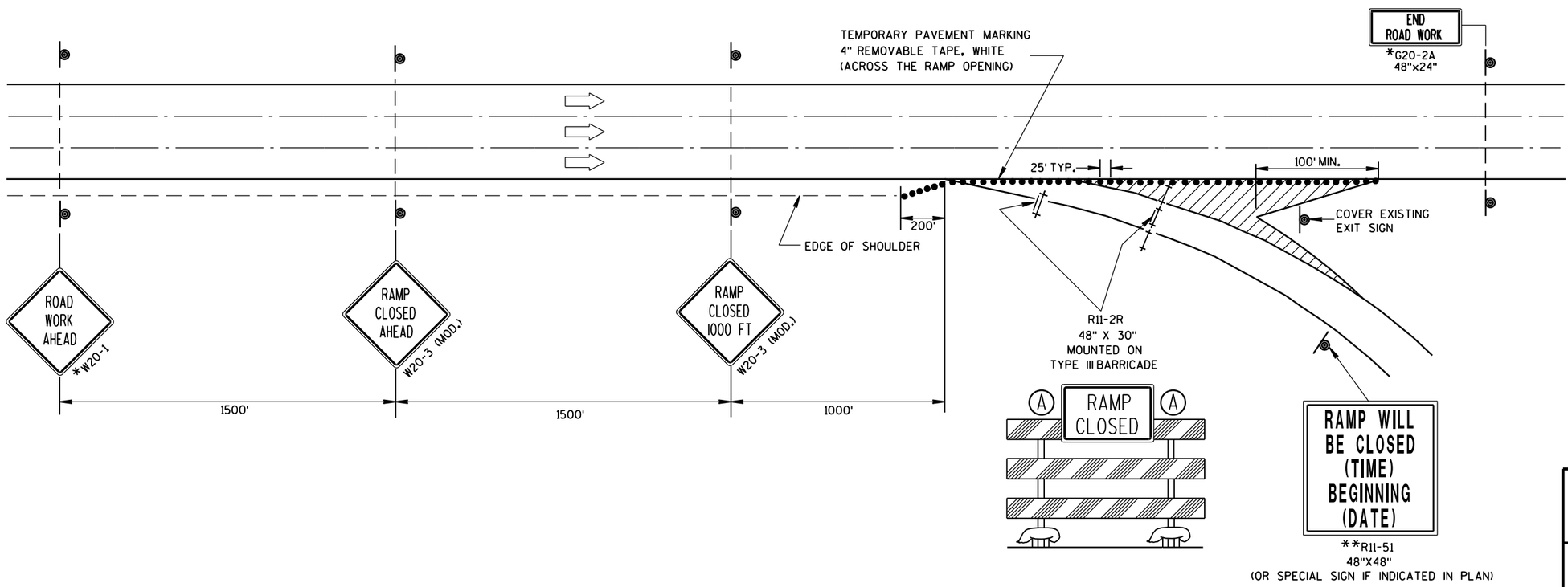
PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF RAMP CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

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.

** PLACE "RAMP WILL BE CLOSED" SIGN 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
8/2013
DATE

/S/ Travis Feltes
STATE TRAFFIC ENGINEER

DESIGN

FHWA

6

S.D.D. 15 D 16-2

LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- FLASHING ARROW BOARD
- WORK AREA

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.

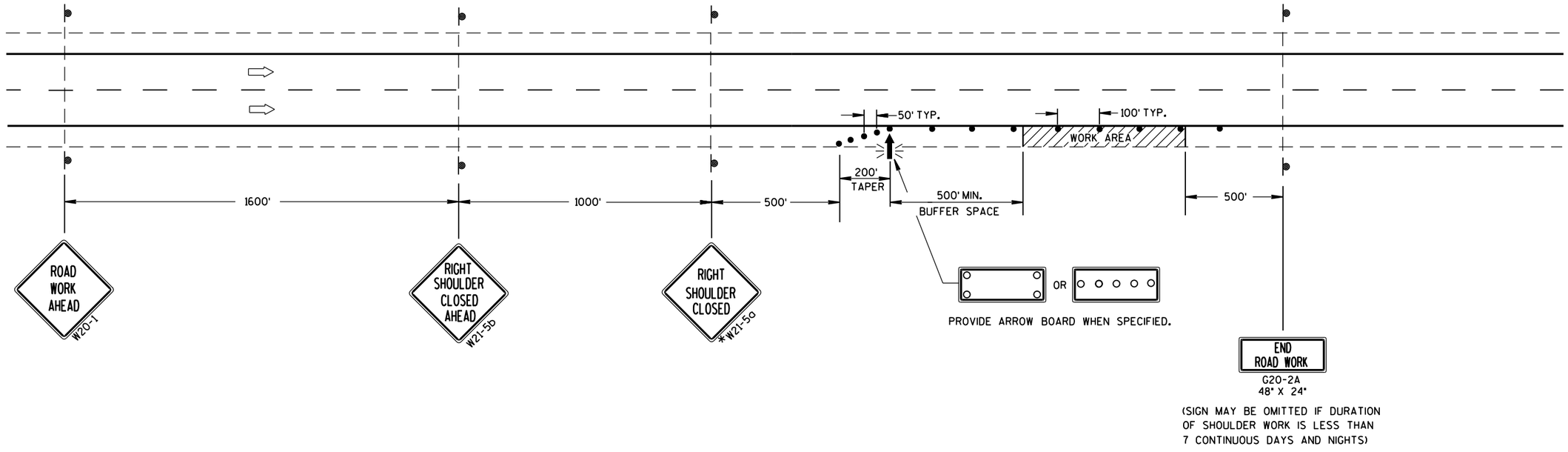
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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

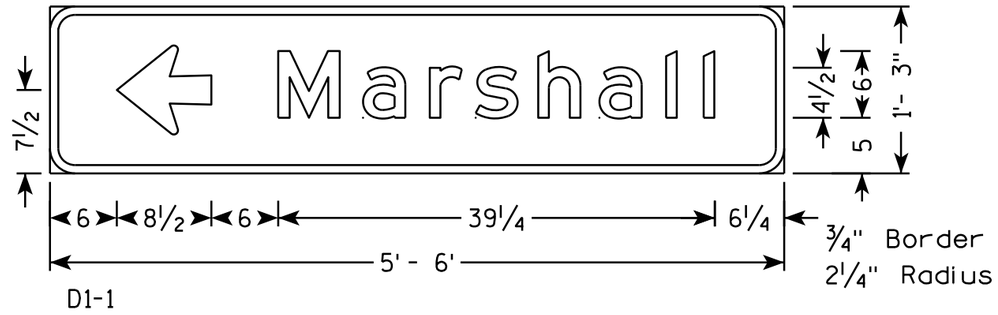
8/2013 — DATE

/S/ Travis Feltes — STATE TRAFFIC ENGINEER

FHWA

6

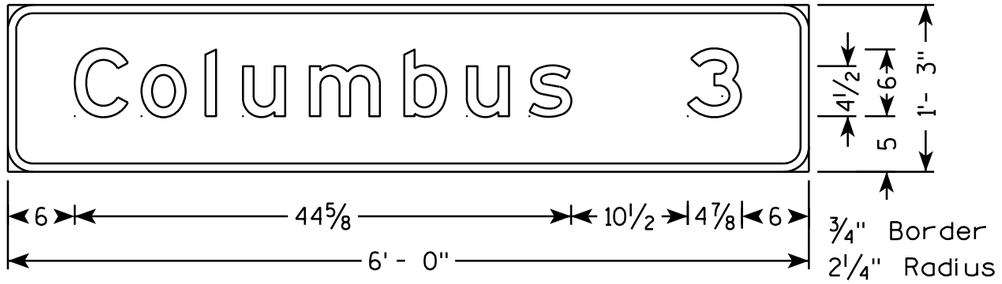
S.D.D. 15 D 27-2



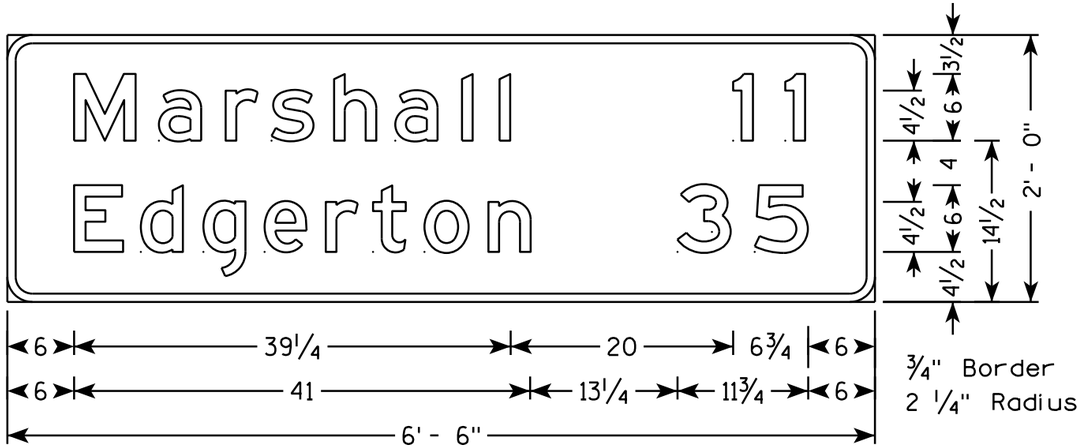
D1-1

NOTES

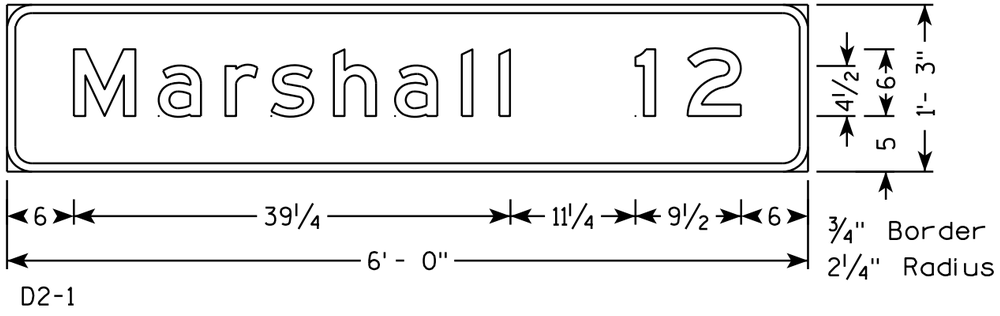
1. All Signs Type II - Type H Reflective
2. Color:
   Background - GREEN
   Message - WHITE
3. Message Series - E



D2-1



D2-2



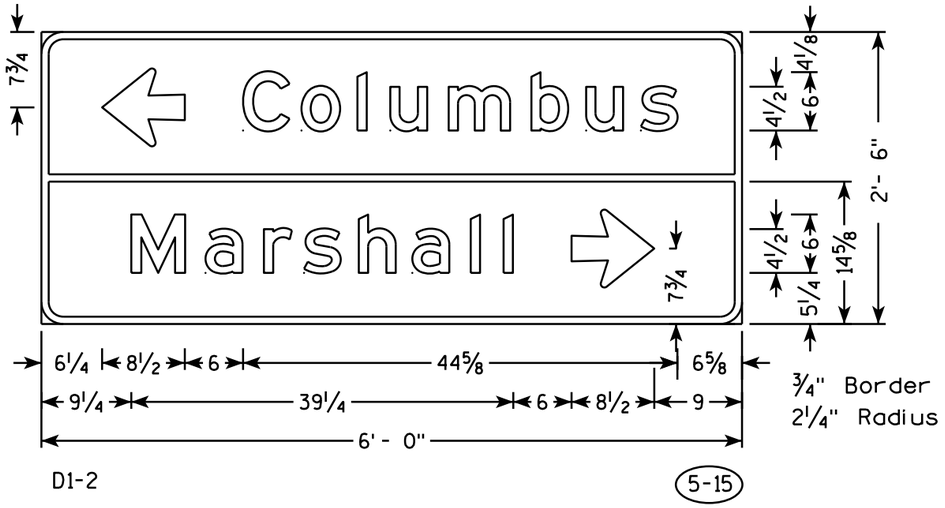
D2-1

7

7

PROJECT NO: 3060-02-62	HWY: STH 73	COUNTY: COLUMBIA	PERMANENT SIGNING	SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_d1\1113A314.dgn PLOT DATE : 05-MAR-2014 11:10 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.620893:1.000000 WISDOT/CADDS SHEET 42

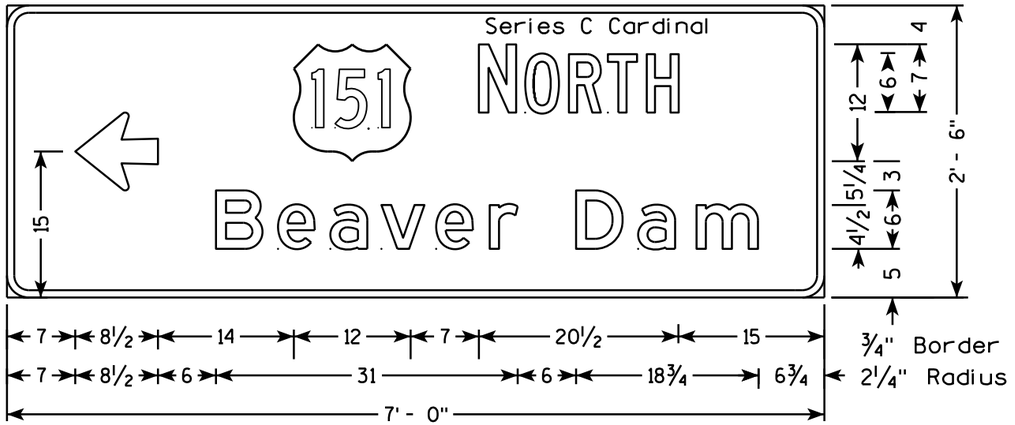


D1-2

5-15

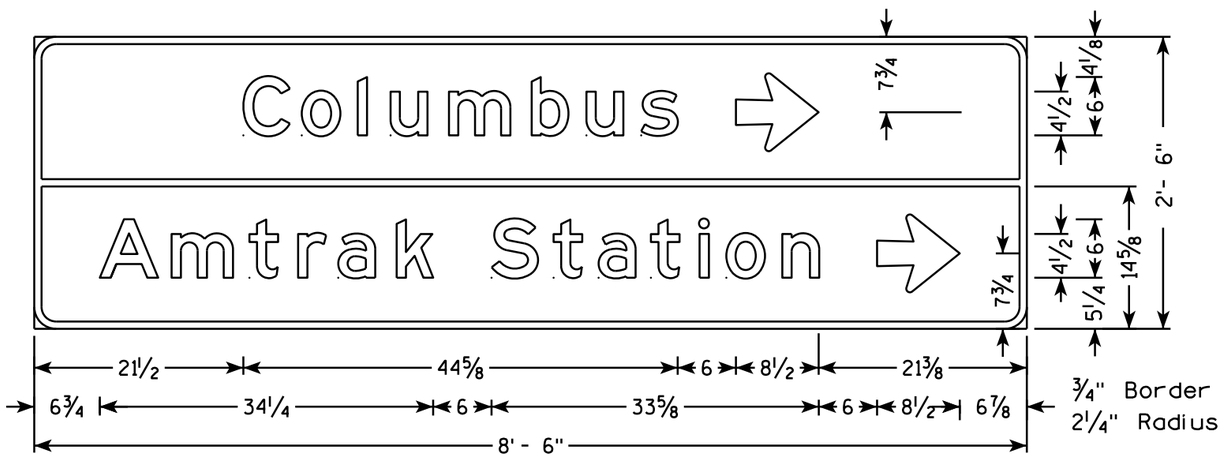
NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - GREEN
   Message - WHITE
3. Message Series - E except as Shown



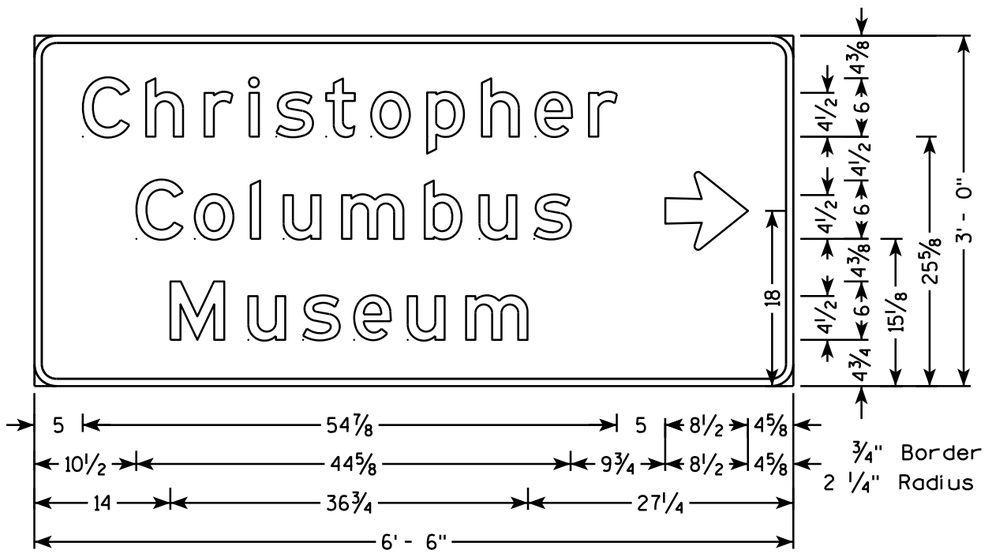
D1-70

2-9



D1-2

4-4

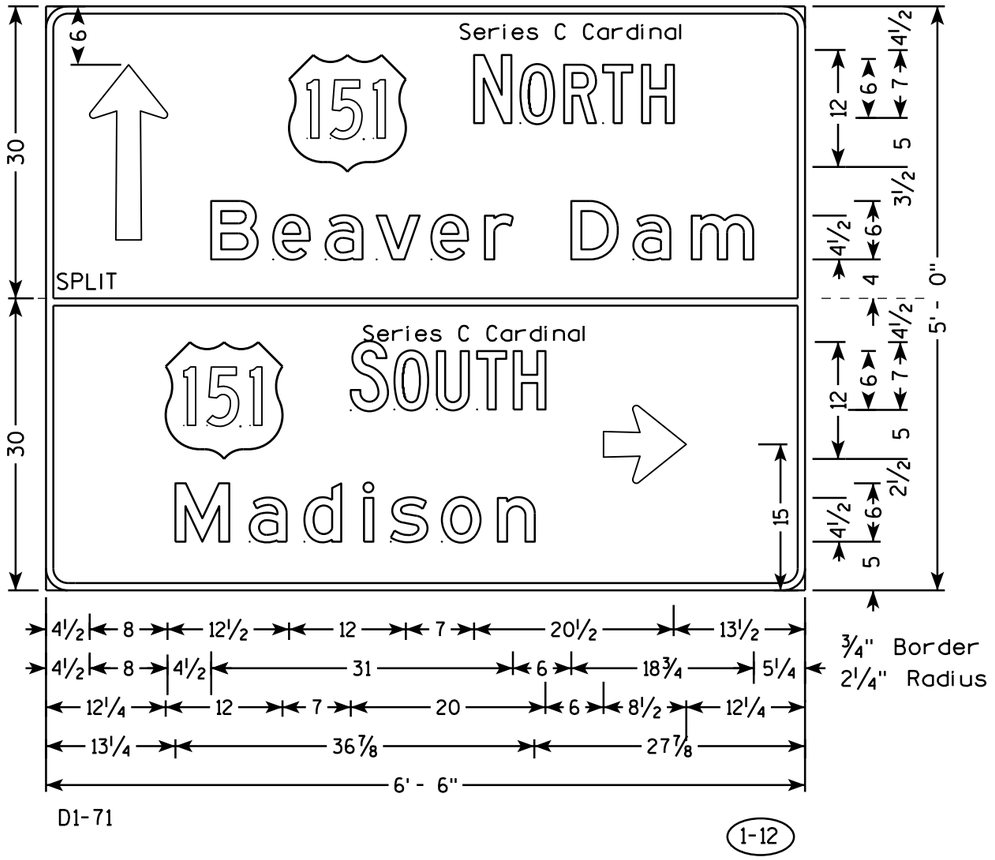


D1-3

4-3

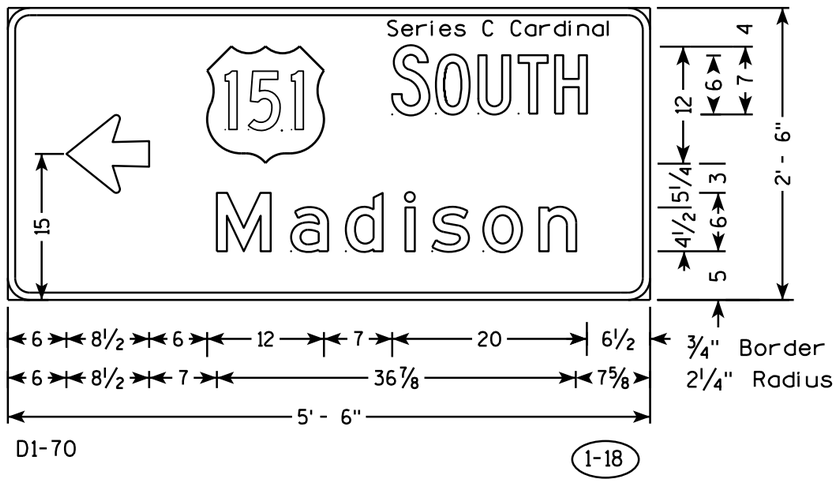
PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	PERMANENT SIGNING	SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_d1\1111A114.DGN PLOT DATE : 08-JAN-2014 10:01 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 15.566735:1.000000 WISDOT/CADDS SHEET 42



D1-71

1-12

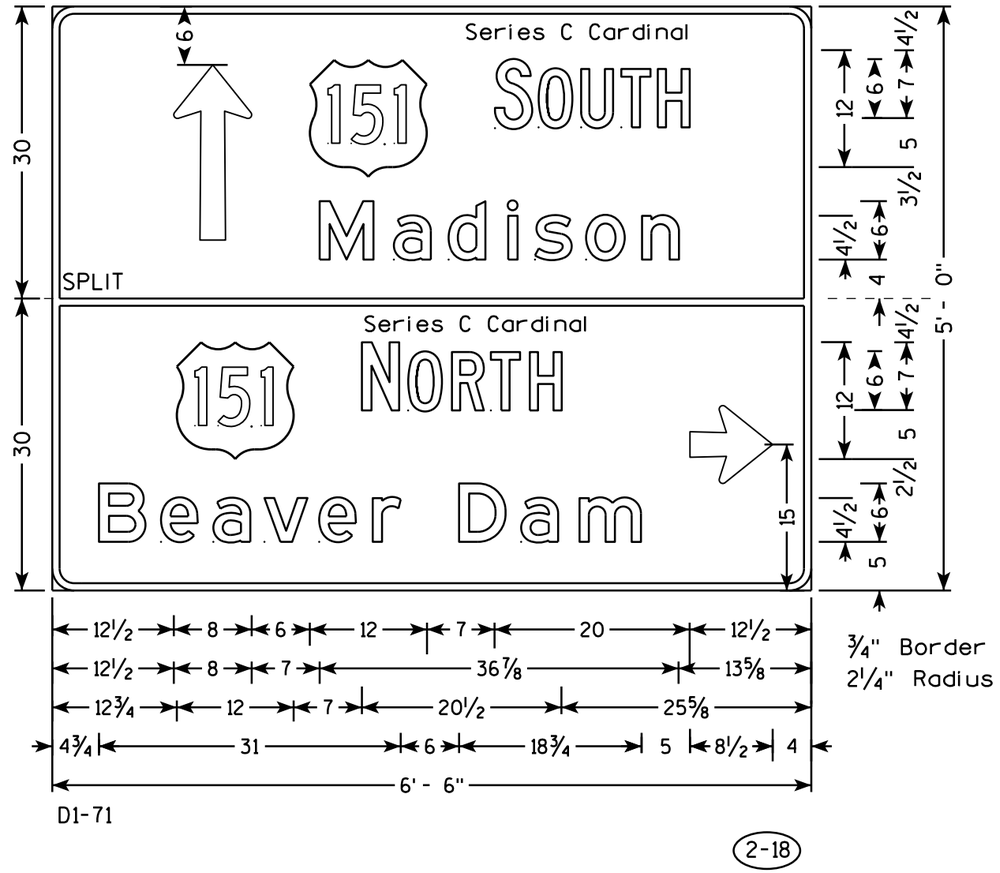


D1-70

1-18

NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - GREEN
   Message - WHITE
3. Message Series - E except as Shown

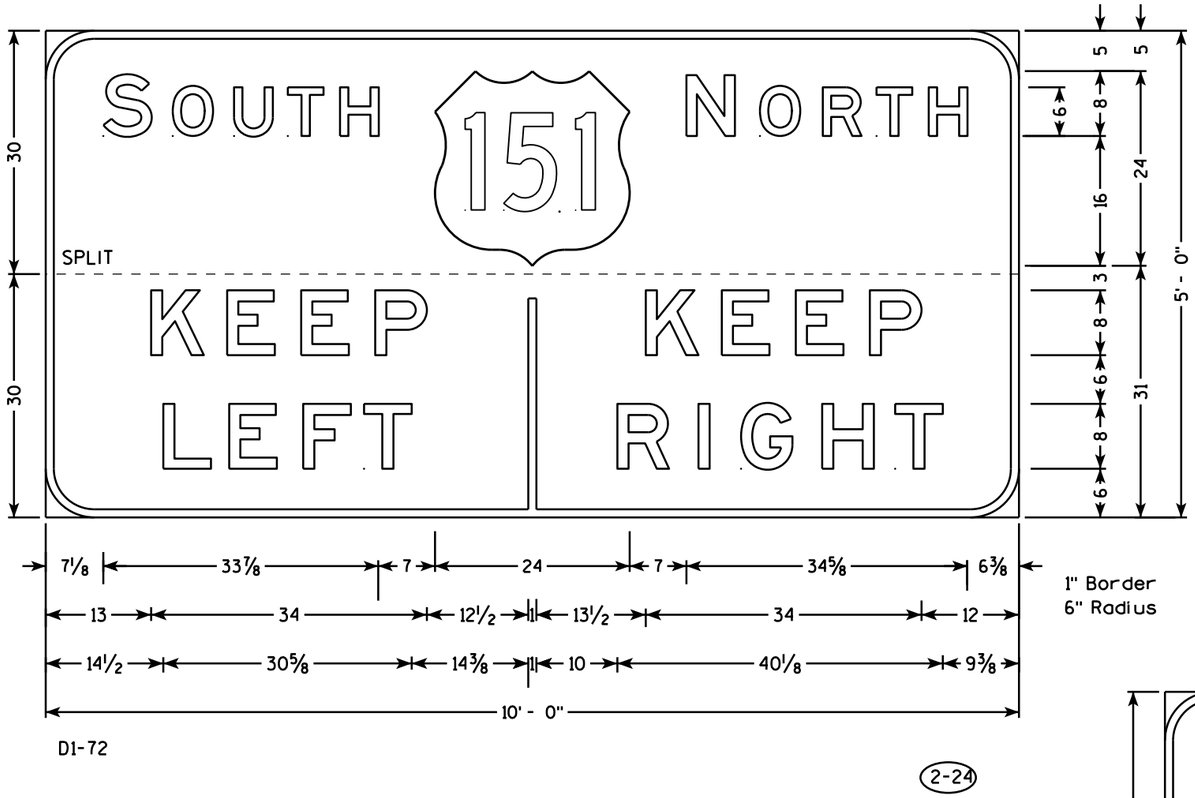


D1-71

2-18

PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	PERMANENT SIGNING	SHEET NO:	E

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WISDOT/CADDS SHEET 42

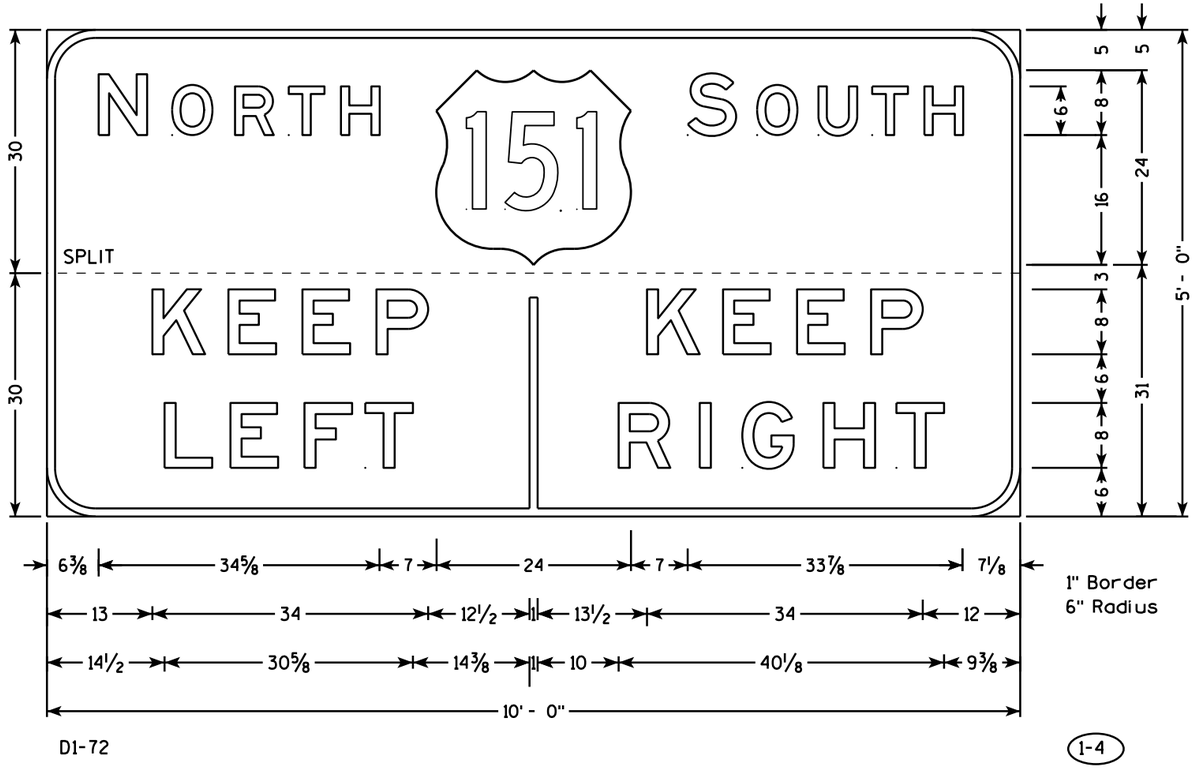


D1-72

2-24

NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - GREEN
   Message - WHITE
3. Message Series - E



D1-72

1-4

7

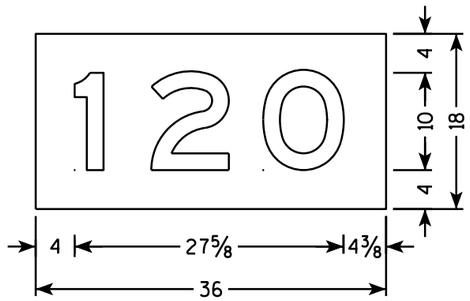
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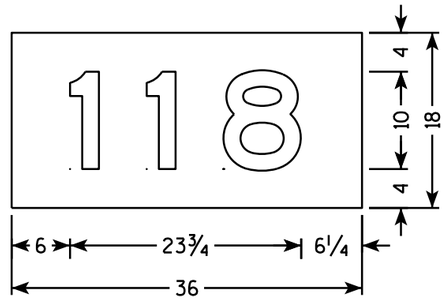
PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	PERMANENT SIGNING	SHEET NO:	E

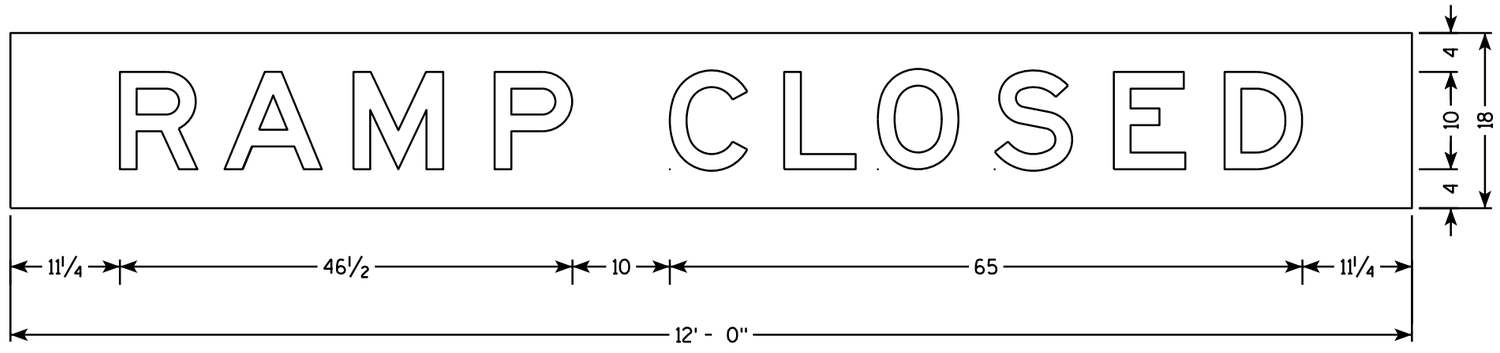
FILE NAME : C:\CAEFiles\Projects\tr_d1\1111A114.dgn PLOT DATE : 07-JAN-2014 15:30 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 18.680082:1.000000
WISDOT/CADDS SHEET 42

NOTES

1. All Signs Type II - Type F Reflective
2. Color:
   Background - ORANGE
   Message - BLACK
3. Message Series - E







7

7

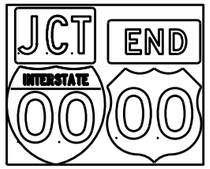
PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	TEMPROARY SIGNING	SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_d1\1111A114.dgn PLOT DATE : 07-JAN-2014 15:29 PLOT BY : mscsjq PLOT NAME : PLOT SCALE : 15.566735:1.000000 WISDOT/CADDS SHEET 42

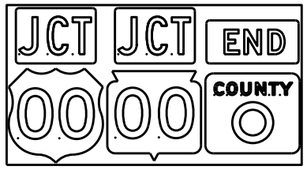
TYPICAL ASSEMBLIES



J1-1



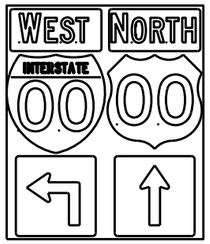
J1-2



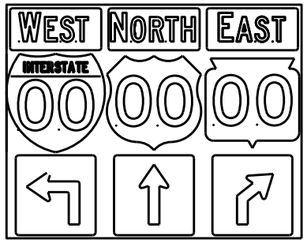
J1-3



J2-1



J2-2

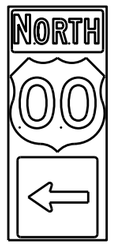


J2-3

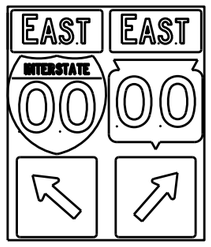


JV

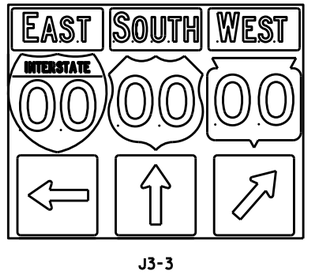
(Typical Vertical J-Assembly
See Note 10 and 11)



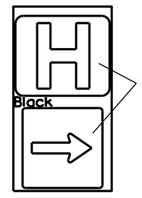
J3-1



J3-2



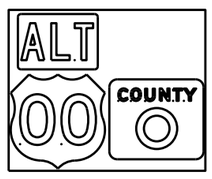
J3-3



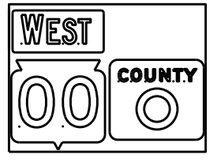
JH-1



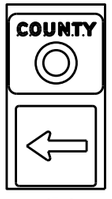
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1

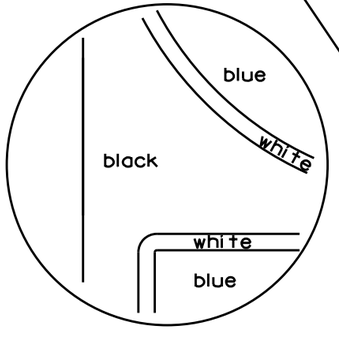


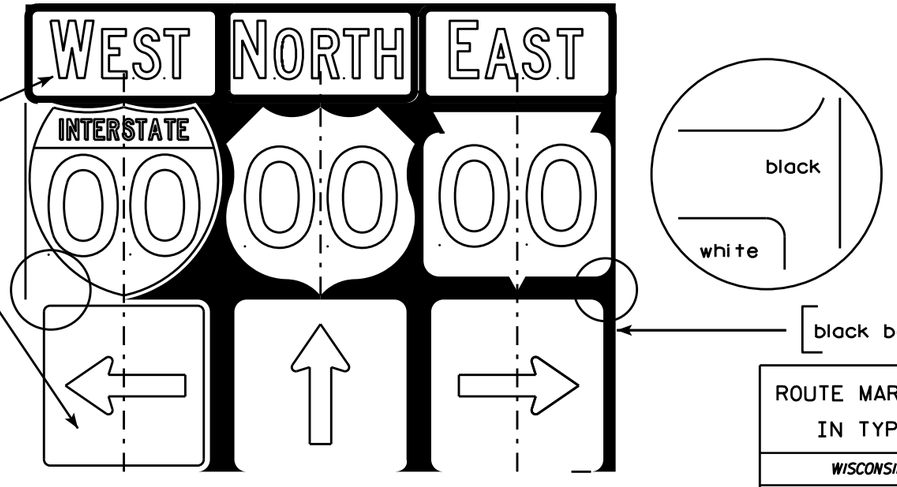
J23-1



J22-1

[blue background with interstate]





[black background]

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 or rounded if base material is plywood. If base material is metal the corners shall be rounded.
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.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

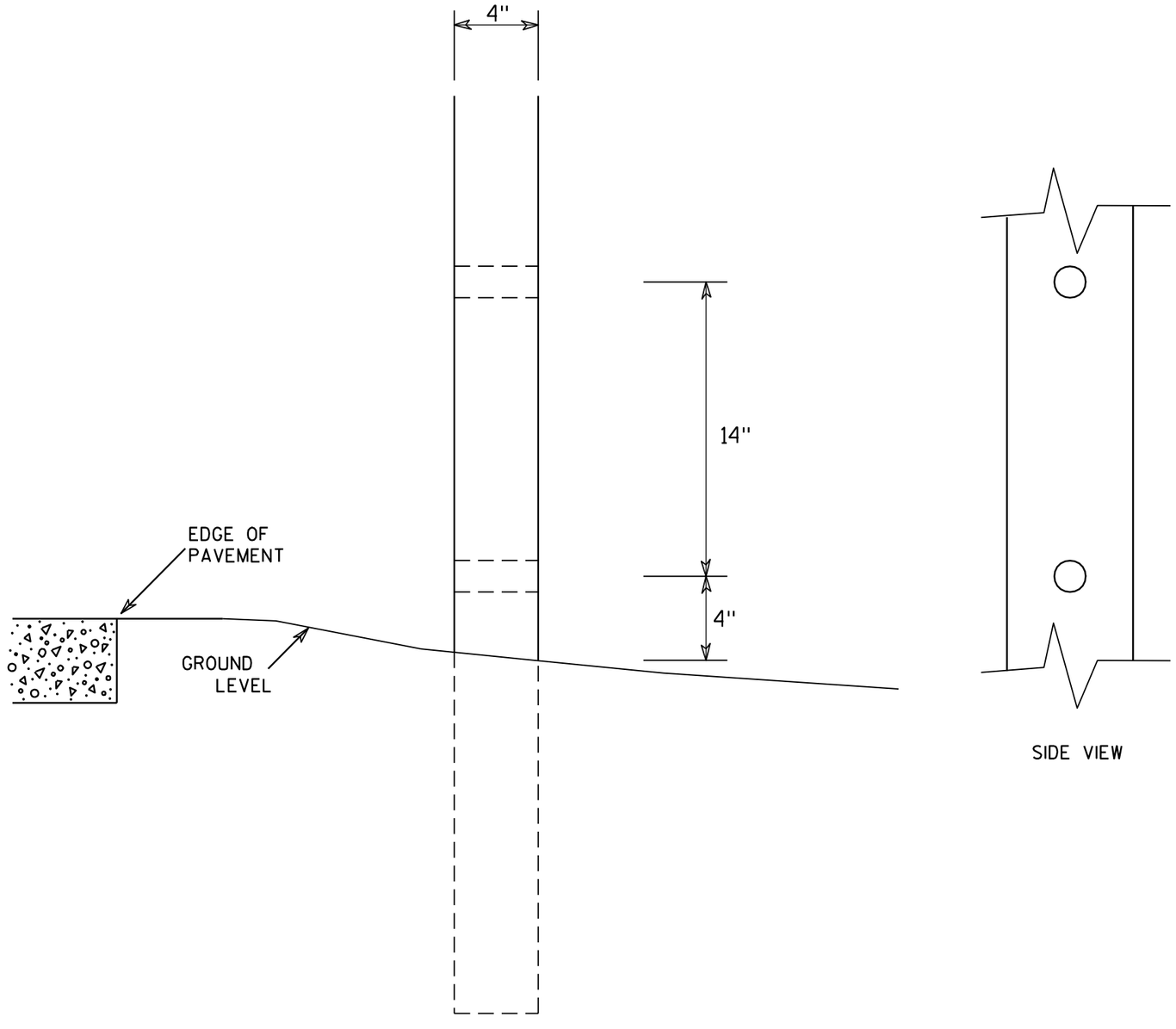
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/06/14 PL... A2-1S.8

PROJECT NO: | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A21S.DGN PLOT DATE : 06-FEB-2014 14:10 PLOT BY : mscsja PLOT NAME :
WISDOT/CADDS SHEET 42



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.

7

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4 X 6 WOOD POST MODIFICATIONS

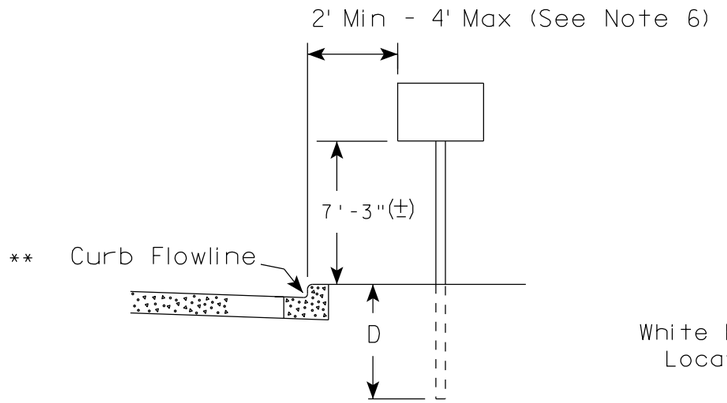
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang
for State Traffic Engineer

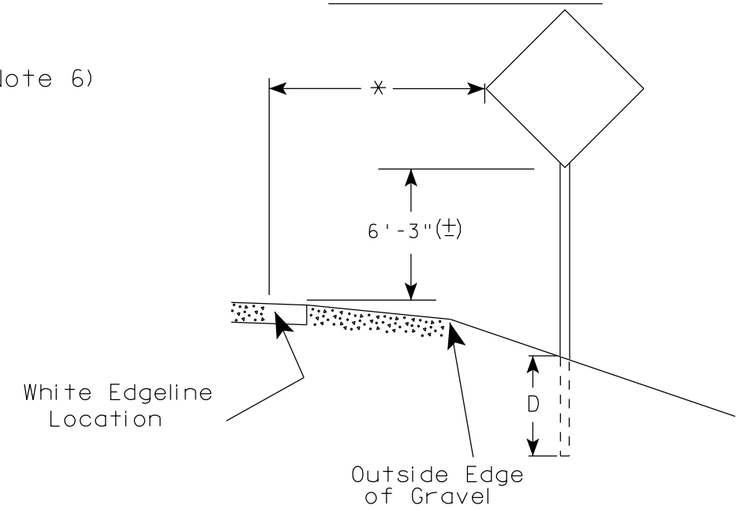
DATE 3/27/97 PLATE NO. A4-11.2

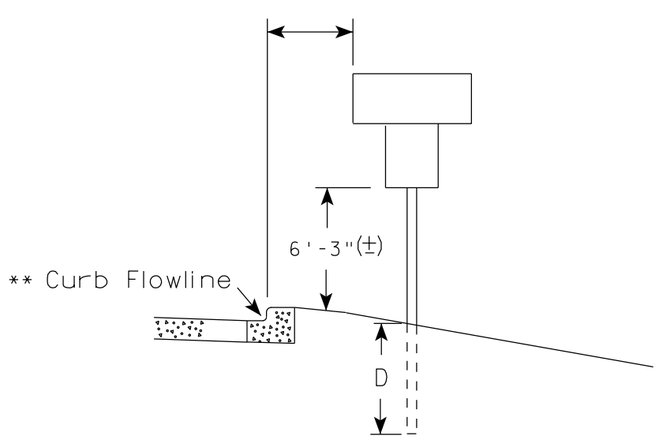
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 254	E

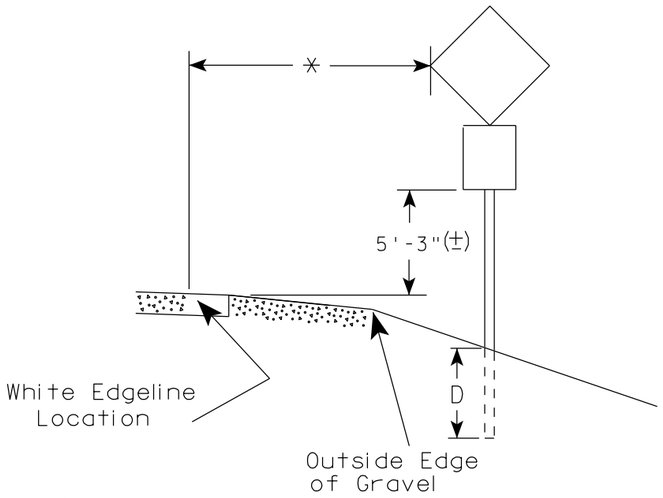
URBAN AREA



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, 20 sq.ft or larger, 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 (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series) & End of Rod 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

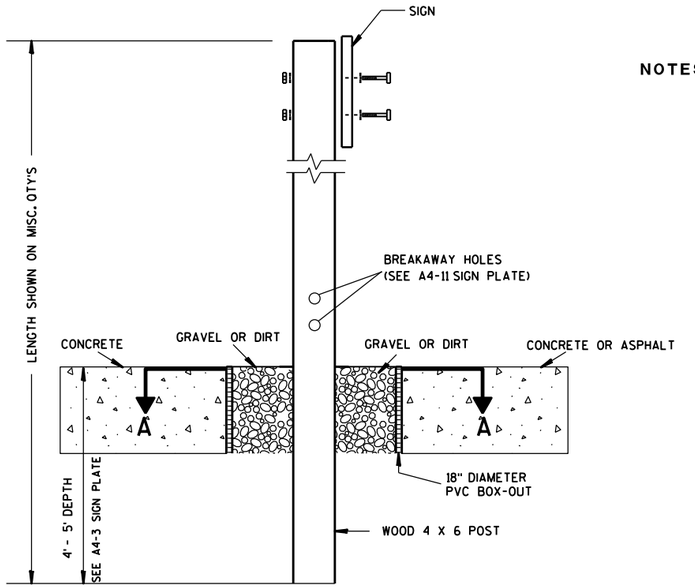
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/13 PLATE NO. A4-3.18

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

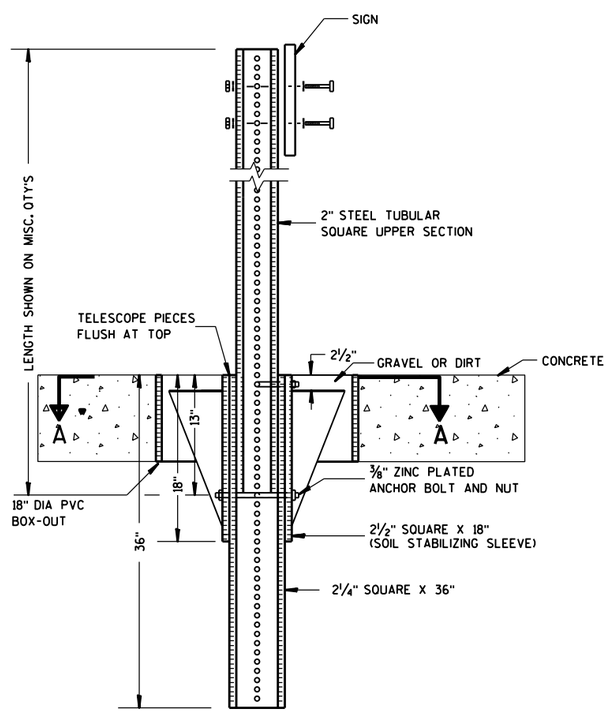
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A43.DGN PLOT DATE : 30-SEP-2013 13:25 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 99.237937:1.000000 WISDOT/CADDS SHEET 42



ELEVATION VIEW

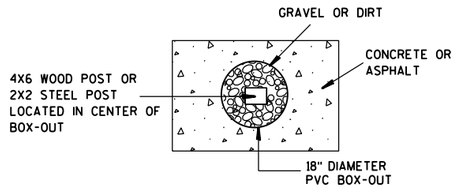
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

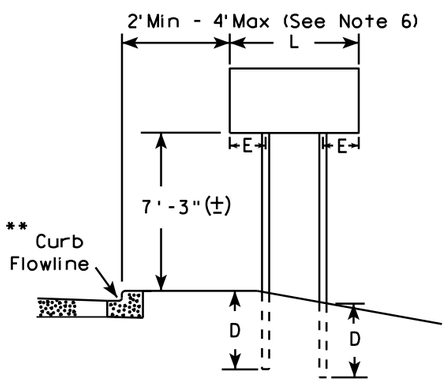
APPROVED Matthew R Rauch
for State Traffic Engineer

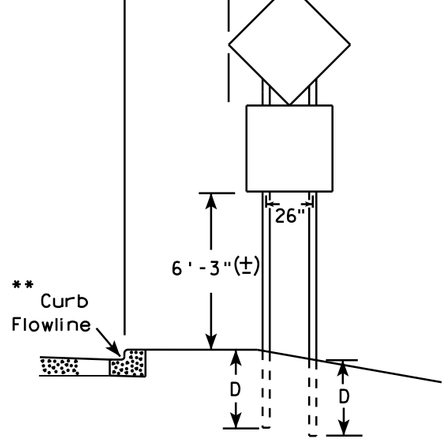
DATE 1/27/14 PLATE NO. A4-3B.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

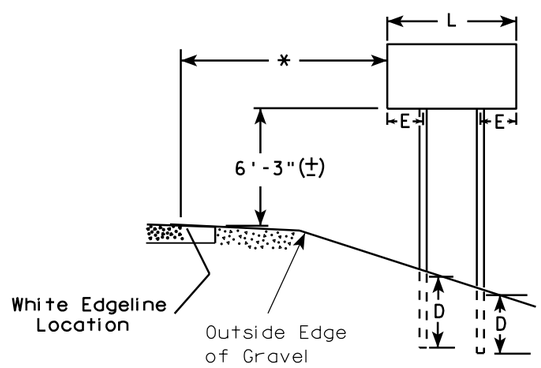
URBAN AREA

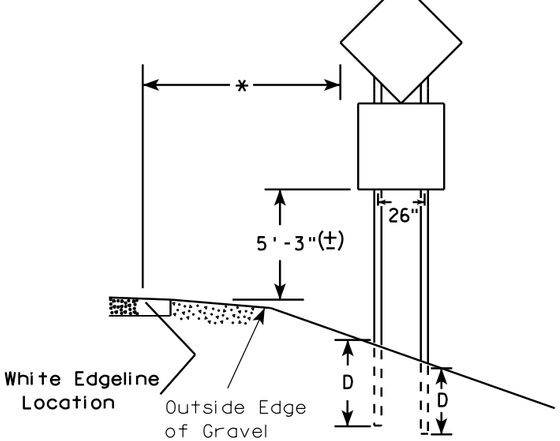




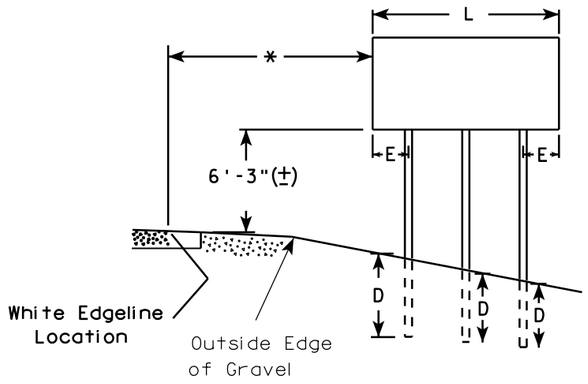
48" DIAMOND WARNING SIGN

RURAL AREA (See Note 3)





48" DIAMOND WARNING SIGN



GENERAL NOTES

1. For 3 or 4 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 (R6-4B), 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 less than 20 S.F. in area.

***

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'

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

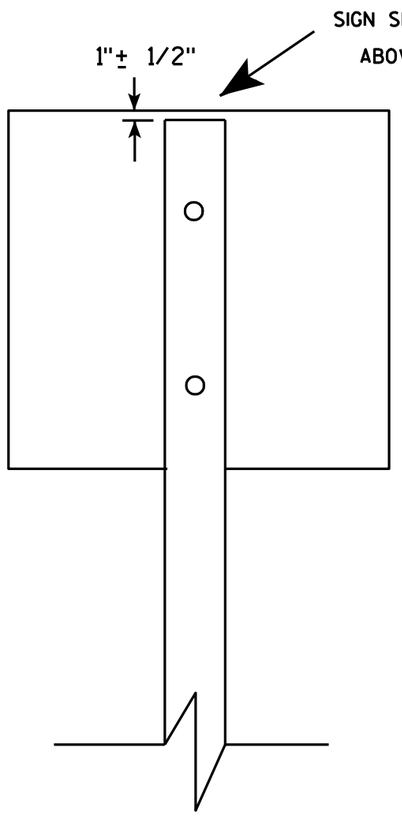
APPROVED Matthew R Rauch
for State Traffic Engineer

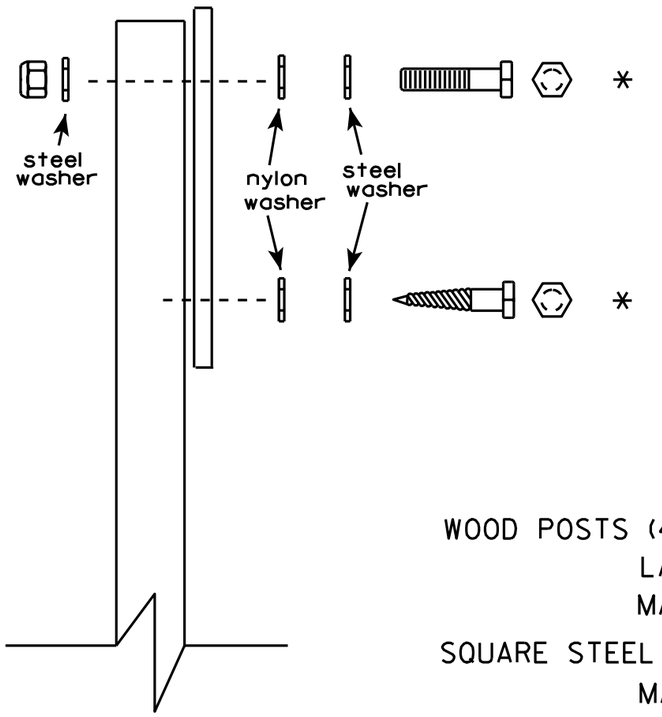
DATE 4/29/14 PLATE NO. A4-4 13
257

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A44.DGN PLOT DATE : 30-APR-2014 13:10 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 107.021305:1.000000

7 7





Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

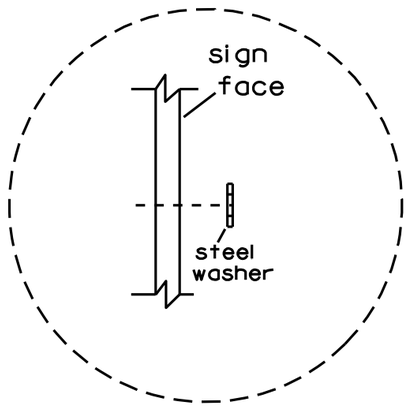
a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

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

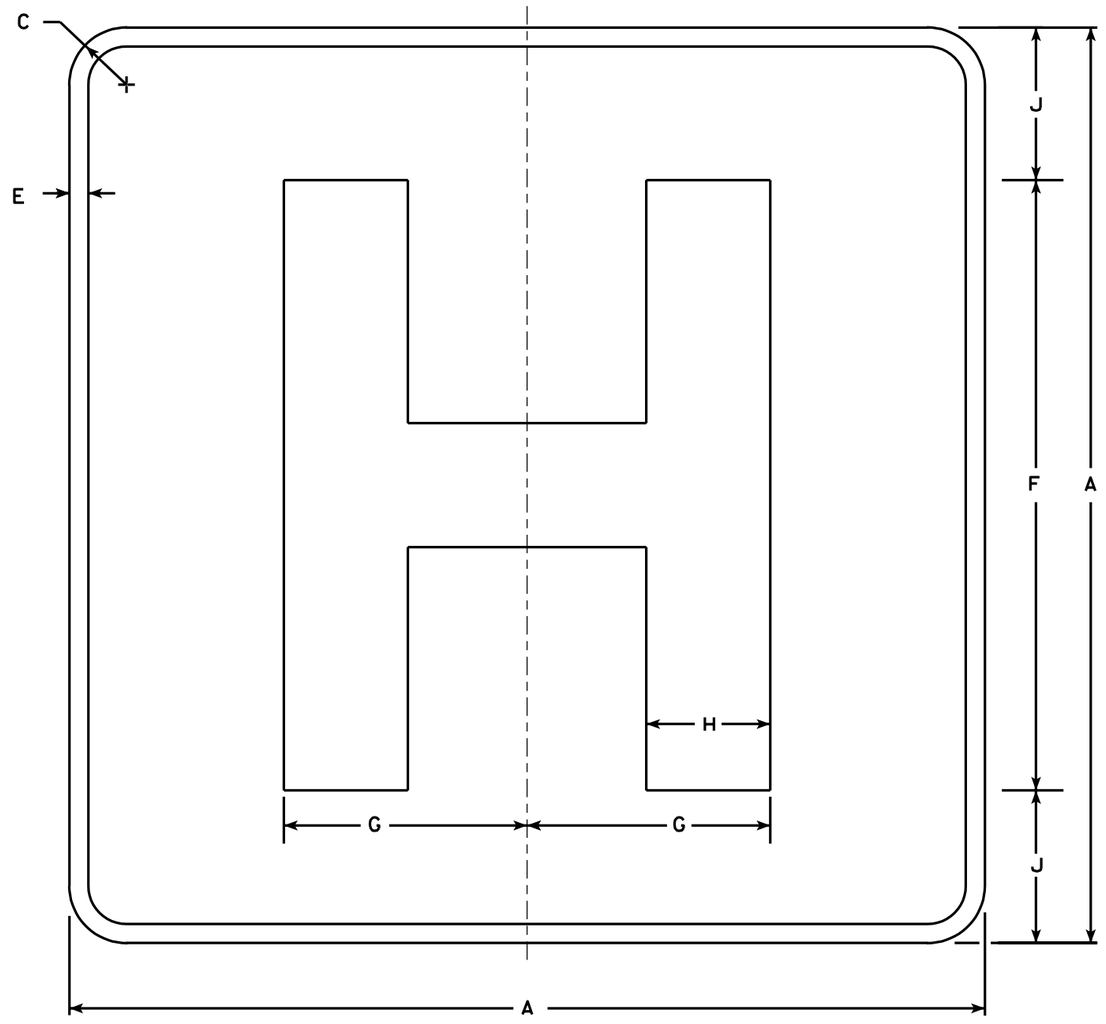
DATE 3/23/10 PLATE NO. A4-8.7

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PROJECT NO:

SHEET NO: 258 E



D9-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Blue
   Message - White - Type H Reflective
3. Message Series - E Modified
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.

Metric equivalent for this sign is:

SIZE	
1	450 mmX 450 mm
2	600 mmX 600 mm
3	900 mmX 900 mm
4	X
5	X

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		1/2	12	4 3/4	2 3/8		3																	4.0
2	24		1 1/2		1/2	16	6 3/8	3 1/4		4																	4.0
3	36		2 1/4		3/4	24	9 1/2	4 7/8		6																	9.0
4																											
5																											

STANDARD SIGN
D9-2

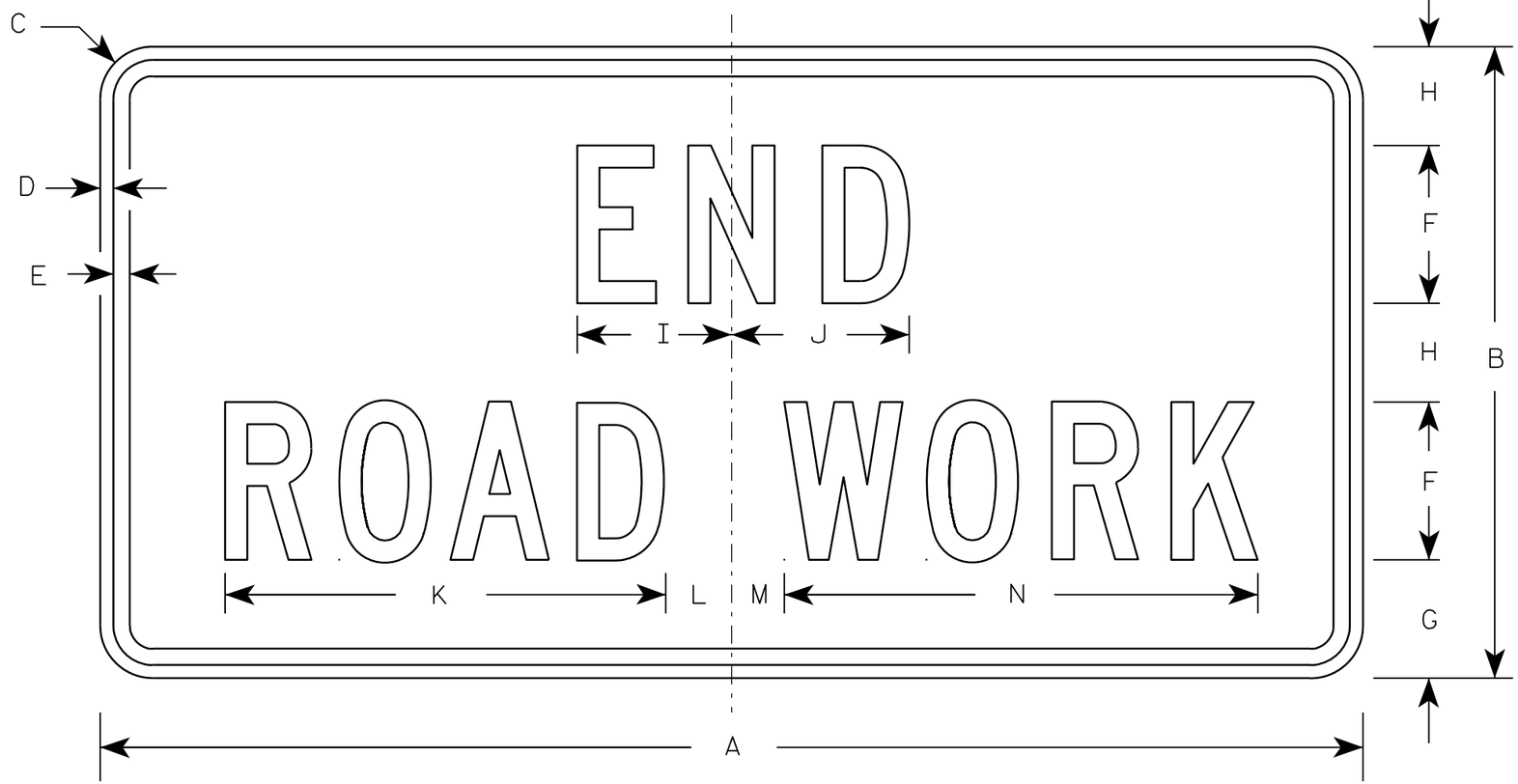
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spong
for State Traffic Engineer

DATE 1/15/02 PLATE NO. D9-2.4

PROJECT NO:

SHEET NO: 259 E



G20-2A

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 - 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.

Metric equivalent for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 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	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 260	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\G202A.DGN PLOT DATE : 30-SEP-2009 09:31 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 5.561773:1.000000

WISDOT/CADDS SHEET 42

7

7

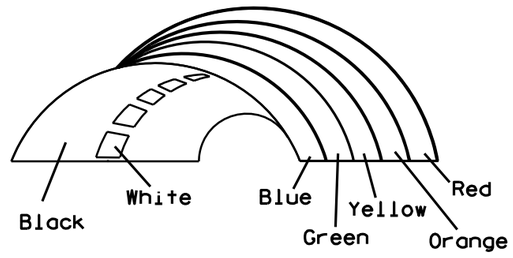


* VARIES

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 - (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. Border - Blue
   Line 1 - Red
   Line 2 - Black
   Line 3-5 - Blue
6. Line 1 - Dutch 8011L
   Line 2 - Series E
   Line 3-5 - Series C
7. Contractor shall provide and install a new post bracket in accordance with the I55-56B sign detail.

Background Colors of Symbol*



*1/4" Black Border between each color of rainbow and border of rainbow

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 1/2	1/2	5/8	3	2	3 1/2	2 7/8	1	8	2 1/8	11 1/4	11 1/8	9 3/8	1 1/4		3/4	12 5/8	7 1/2							7.5
3																											
4																											
5																											

STANDARD SIGN
I55-56

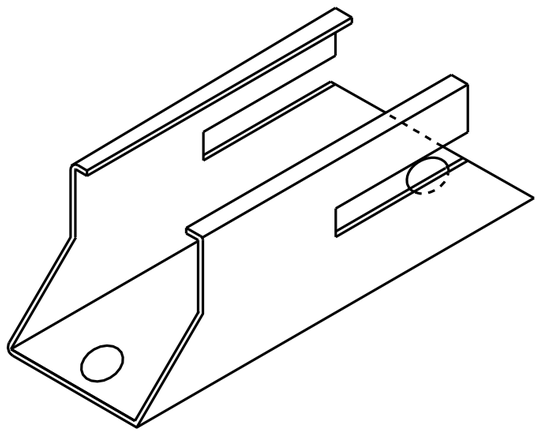
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/27/11 PLATE NO. 155-56.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 261

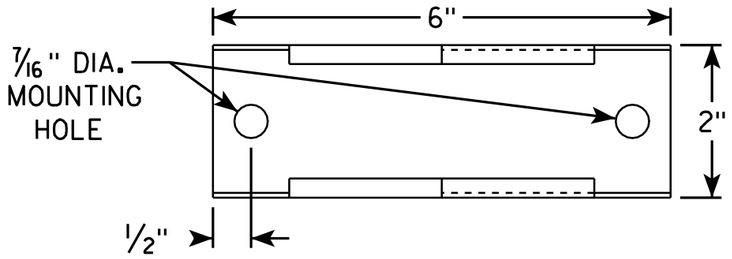
ISOMETRIC VIEW



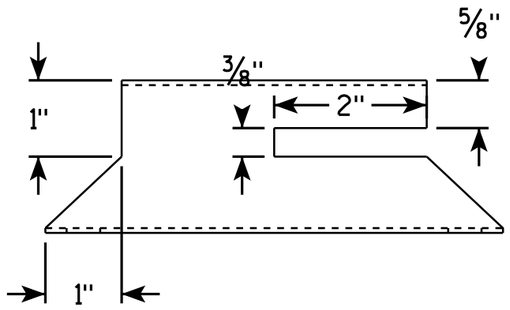
NOTES

1. Must be capable of permanent attachment to a wood or steel channel sign post utilizing the fastening hardware specified on the A4-8 sign plate.
2. Shall be entirely primed and painted with two coats of a black powder coated enamel paint.
3. Shall be made with 12 gauge steel, and incorporate no welds, no hinged components, no threaded lock-type components, and no parts which are loose or can be separated from the main body.
4. Shall have rounded edges with at least 1/8" radii.
5. Shall not have unrounded and uncoated metal edges which can contact the back surface of the roll-up sign.
6. Top of bracket shall be mounted 2' below the bottom of the I55-56 sign.
7. Cost of bracket and fastening hardware shall be incidental to the I55-56 sign.

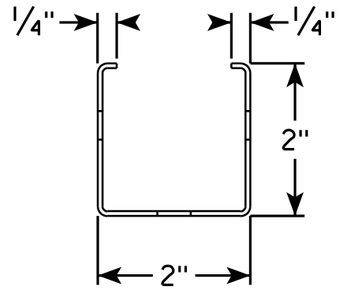
TOP VIEW



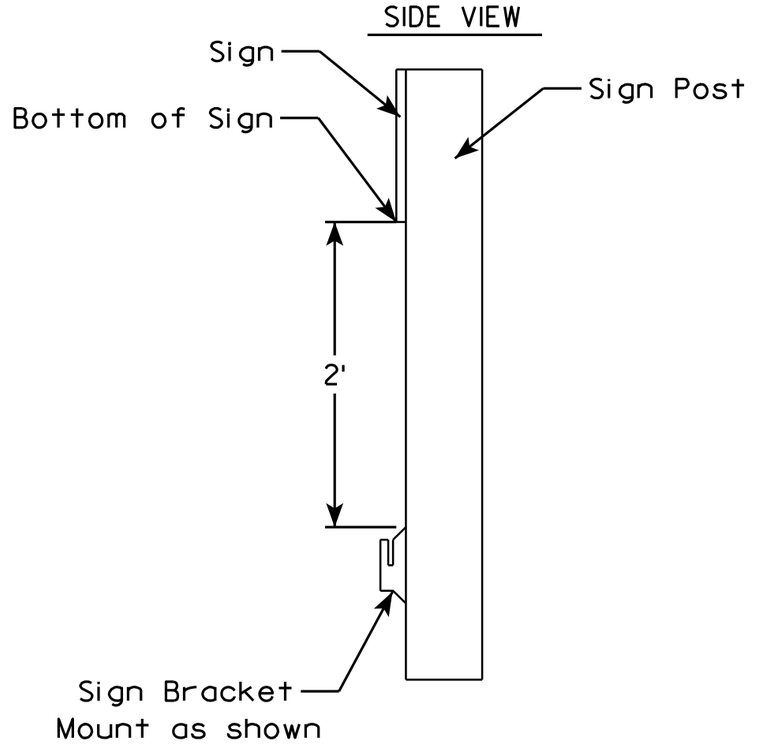
SIDE VIEW



END VIEW



SIDE VIEW



7

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ROLLUP SIGN BRACKET I55-56B

WISCONSIN DEPT OF TRANSPORTATION

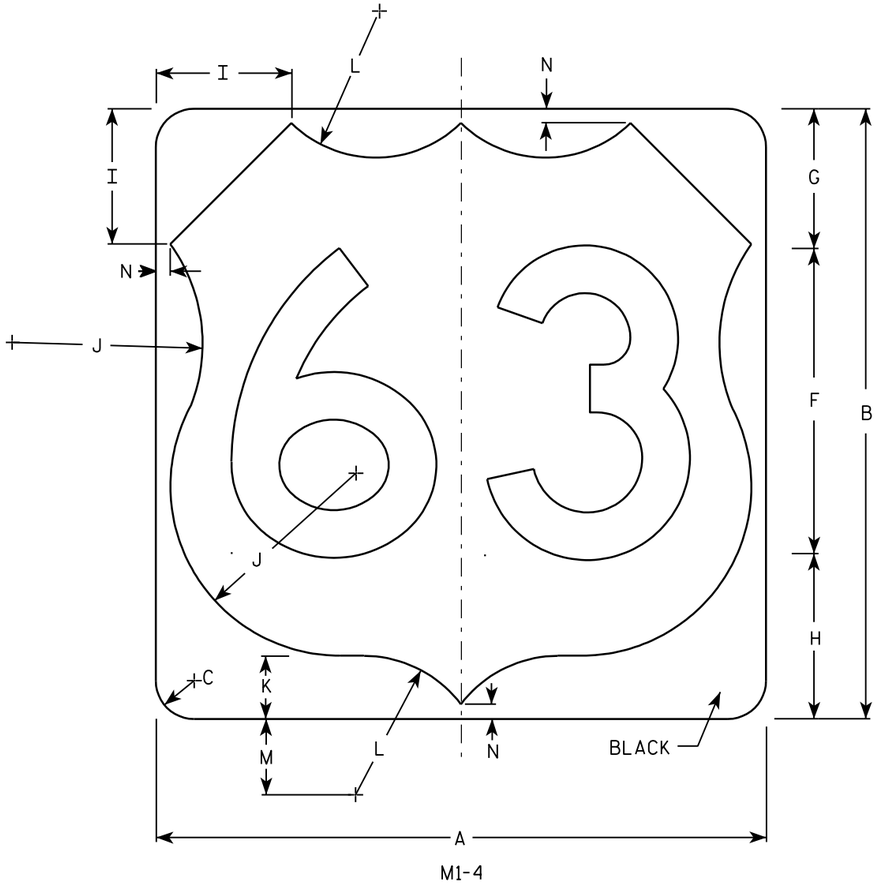
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 2/5/10 PLATE NO. I55-56B.1

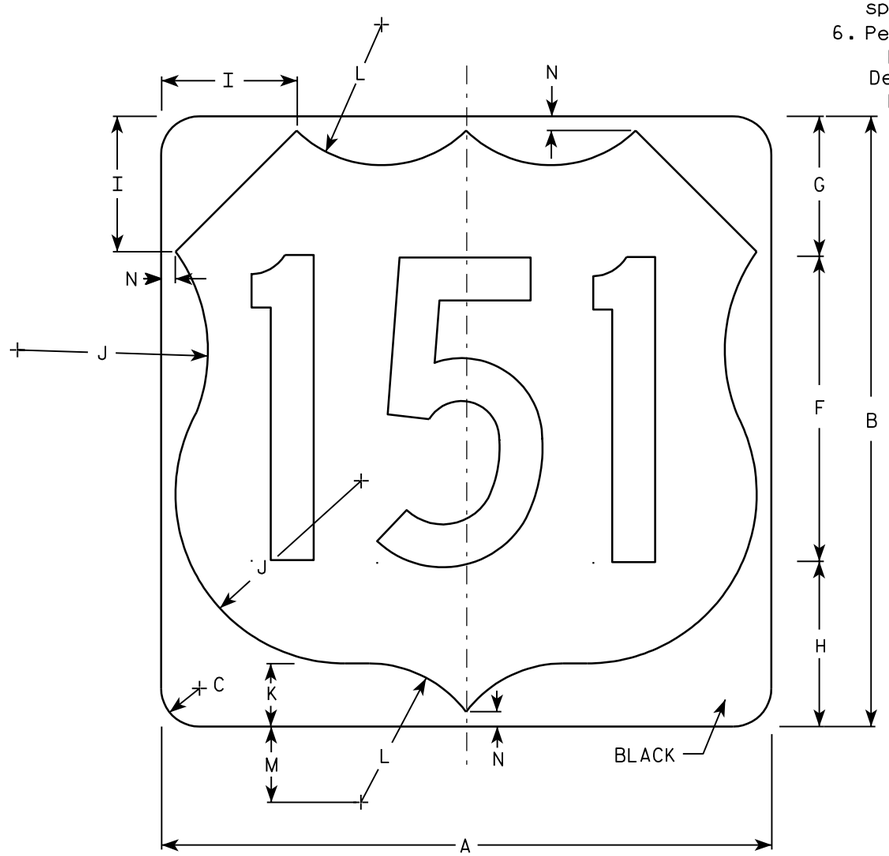
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 262	E

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 numerals and adjust spacing as per Plate A10-1.
6. Permanent Signs
   Background - Type H Reflective
   Detour or other temporary signs
   Background - Reflective



M1-4



M1-4

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	24	1 1/2			12	5 1/2	6 1/2	5	7 1/2	2 1/2	5 1/2	3	1/2													4.0	.36
3	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81
4	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81
5	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81

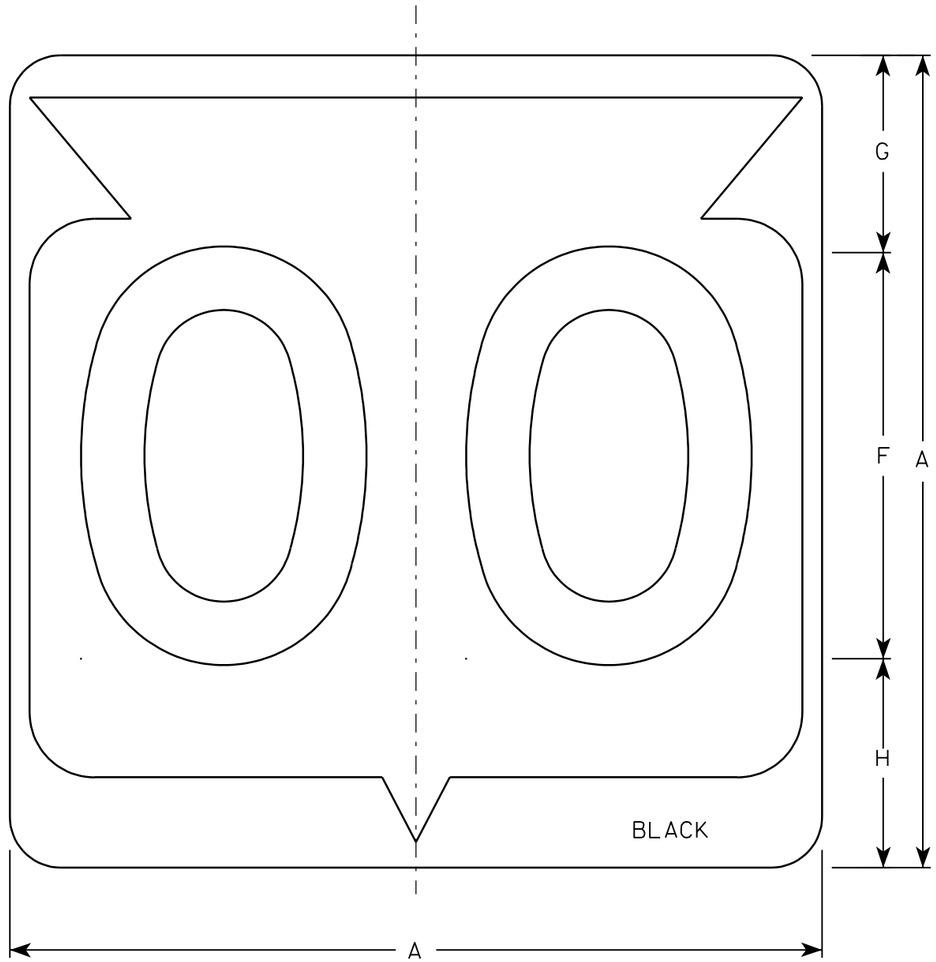
USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 08/25/05 PLATE NO. M1-4.9

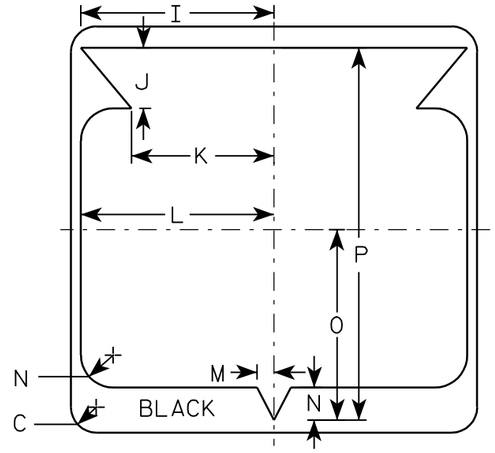
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 263 | E



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

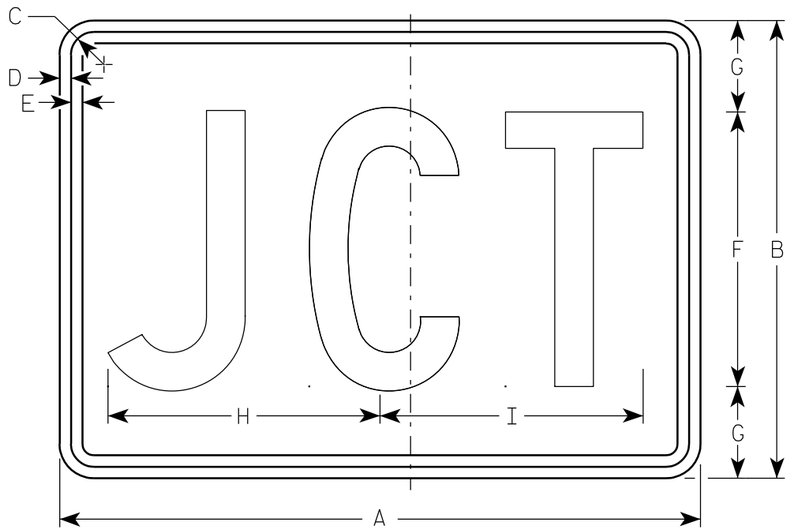
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

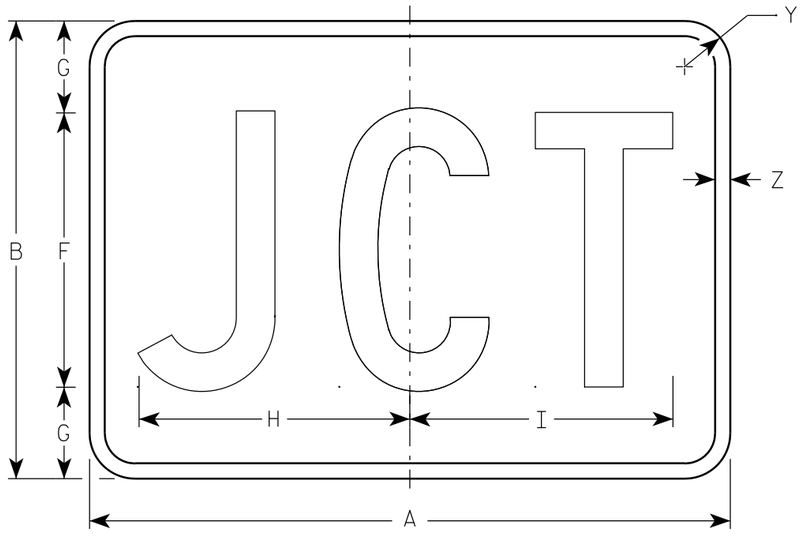
APPROVED Chester J Spang for State Traffic Engineer

DATE 3/20/02 PLATE NO. M1-6.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 264	E



M2-1
MK2-1
MM2-1
MR2-1



MB2-1
MG2-1
MN2-1

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 - 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. M2-1 Background - White - Type H Reflective
   (Detour or temporary Signs - Reflective)
   Message - Black
   MB2-1 Background - Blue
   Message - White - Type H Reflective
   (Detour or temporary Signs - Reflective)
   MG2-1 Background - Green
   Message - White - Type H Reflective
   MK2-1 Background - Green
   Message - White - Type H Reflective
   MM2-1 Background - White - Type H Reflective
   Message - Green
   MN2-1 Background - Brown
   Message - White - Type H Reflective
   MR2-1 Background - Brown
   Message - Yellow - Type H Reflective

Metric equivalent for this sign is:

SIZE	
1	
2	525 mm X 375 mm
3	750 mm X 525 mm
4	750 mm X 525 mm
5	750 mm X 525 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	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20	0.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40	0.20
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40	0.20
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40	0.20

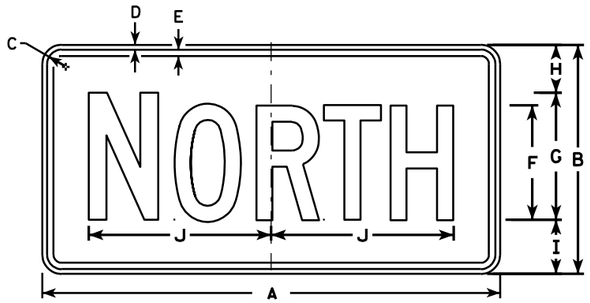
STANDARD SIGN
M2-1

WISCONSIN DEPT OF TRANSPORTATION

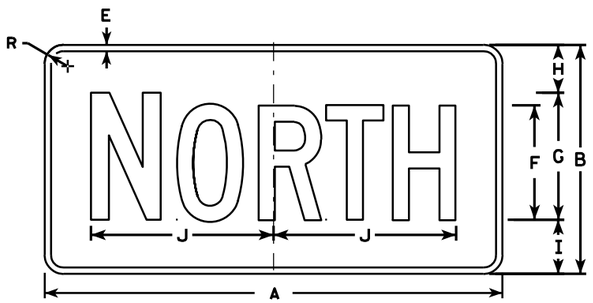
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/10 PLATE NO. M2-1.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 265	E



M3-1
MK3-1
MO3-1



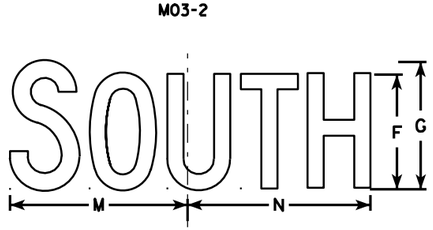
MB3-1
MG3-1
MM3-1
MN3-1



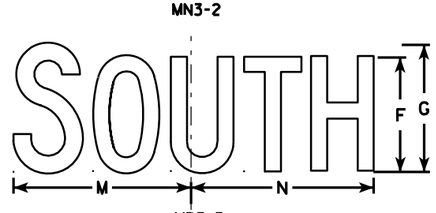
M3-2
MK3-2
MO3-2



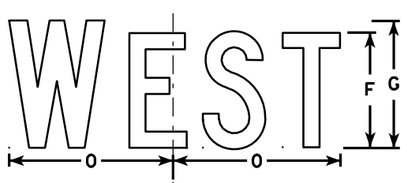
MB3-2
MG3-2
MM3-2
MN3-2



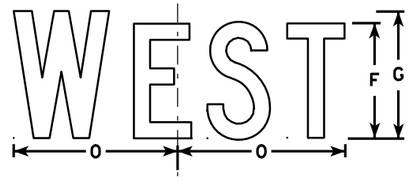
M3-3
MK3-3
MO3-3



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

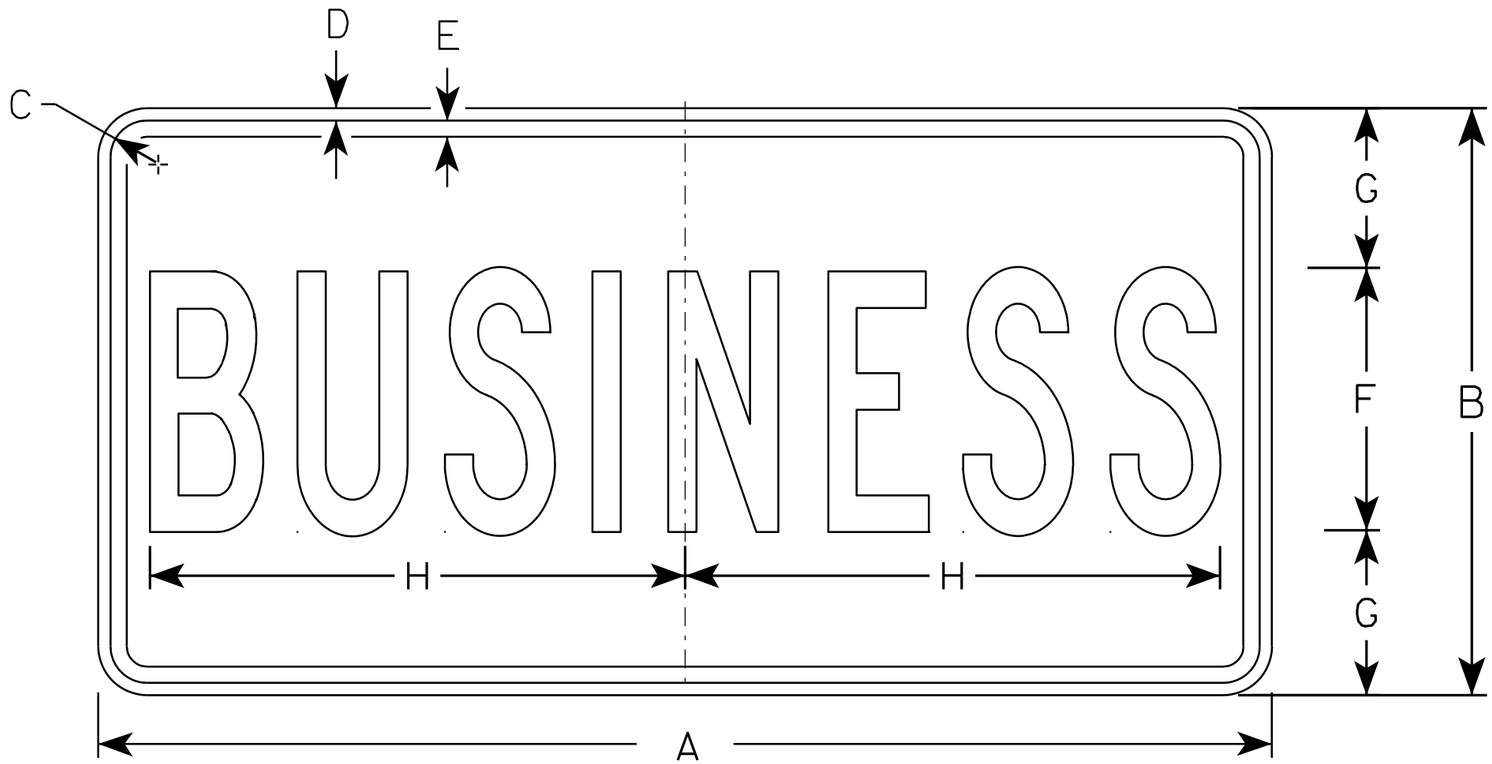
STANDARD SIGNS
M3-1 thur M3-4
SERIES

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: 266	E



M4-3

NOTES

1. Sign is Type II - See Note 5 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White - See Note 5
   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.
5. Permanent Signs
   Background - Type H Reflective
   Detour or other temporary Signs
   Background - Reflective

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	5	3 1/2	9 5/8																			2.0
3	36	18	1 1/8	3/8	1/2	8	5	16 3/8																			4.5
4																											
5																											

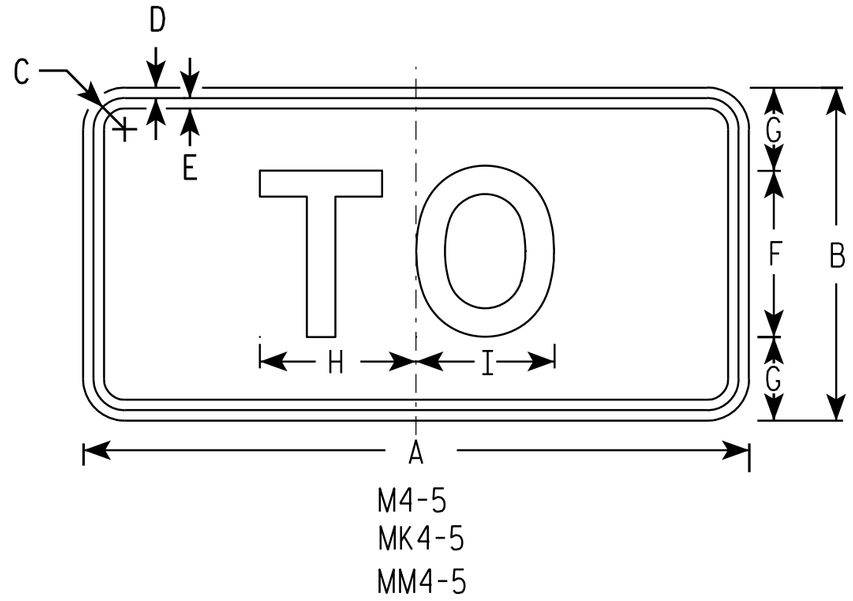
STANDARD SIGN
M4-3

WISCONSIN DEPT OF TRANSPORTATION

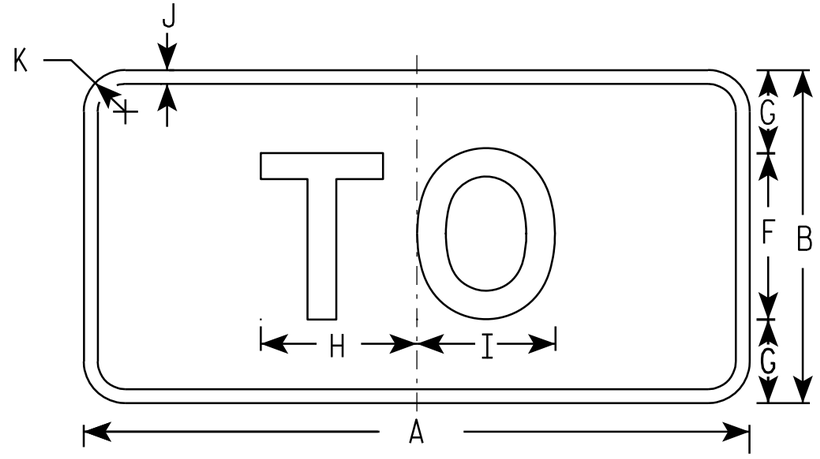
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-3.5

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 267 | E



M4-5
MK4-5
MM4-5



MB4-5
MG4-5
MN4-5

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 - 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. M4-5 Background - White - Type H Reflective (Detour or temporary Signs - Reflective)
   Message - Black
   MB4-5 Background - Blue
   Message - White - Type H Reflective (Detour or temporary Signs - Reflective)
   MG4-5 Background - Green
   Message - White - Type H Reflective
   MK4-5 Background - Green
   Message - White - Type H Reflective
   MM4-5 Background - White - Type H Reflective
   Message - Green
   MN4-5 Background - Brown
   Message - White - Type H Reflective

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	3	5 3/8	5 1/4	1/2	1 1/2																2.00
3	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
4	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
5	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5

STANDARD SIGN
M4-5

WISCONSIN DEPT OF TRANSPORTATION

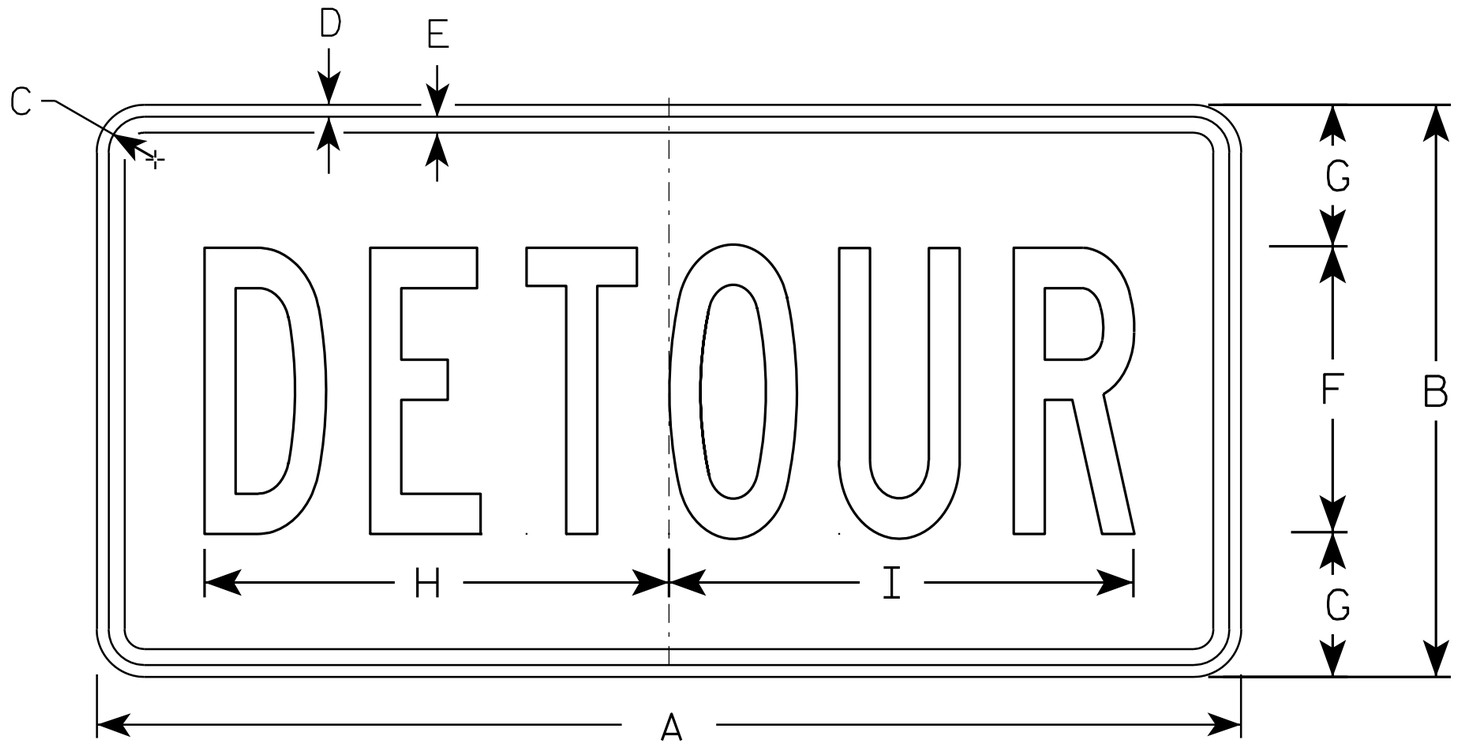
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-5.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 268 | E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\M45.DGN PLOT DATE : 10-NOV-2010 12:48 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 5.462457:1.000000
WISDOT/CADDS SHEET 42



M4-8

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 - 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																											
2	24	12	1 1/8	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4																											
5																											

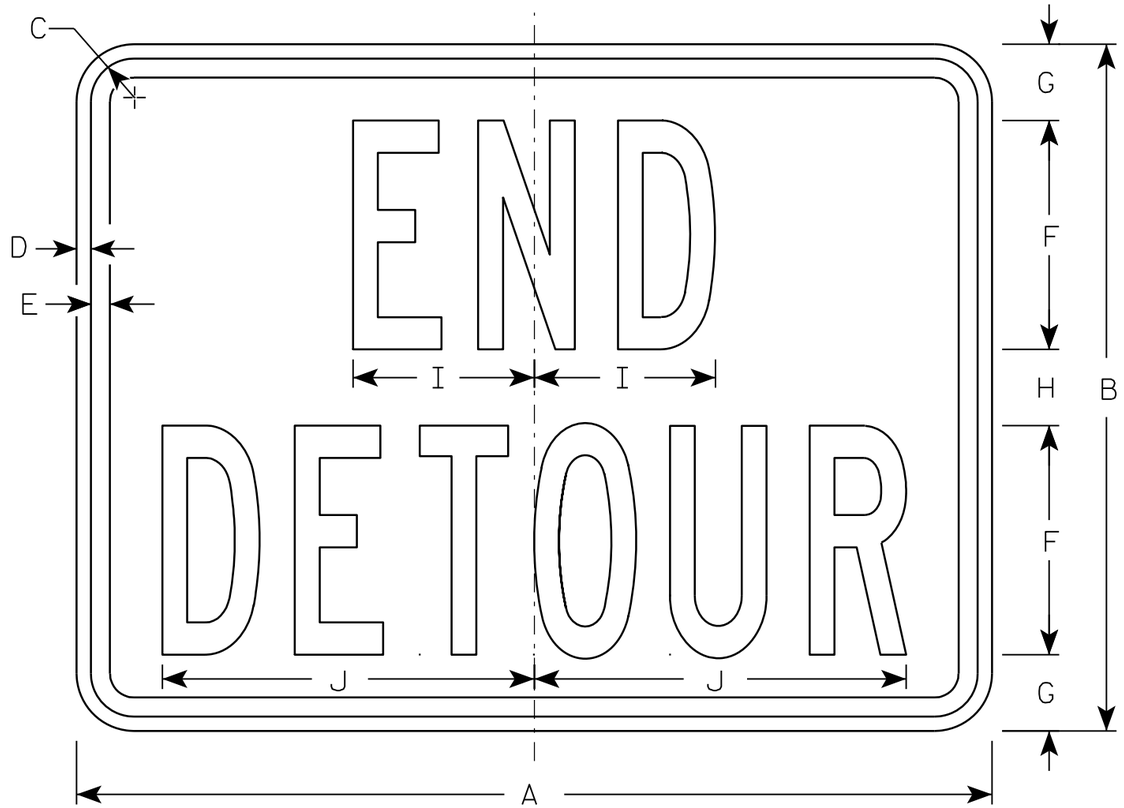
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-8.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 269	E



M4-8A

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 - 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																											
2	24	18	1 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																											
5																											

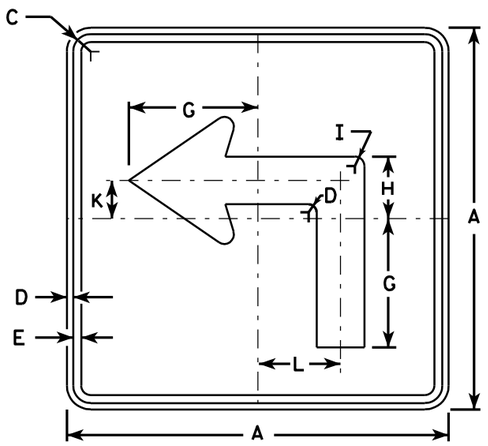
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

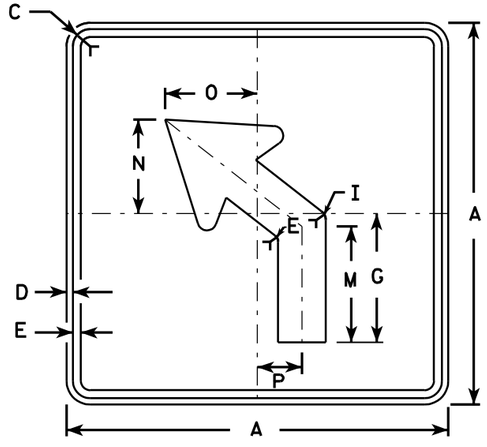
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-8A.2

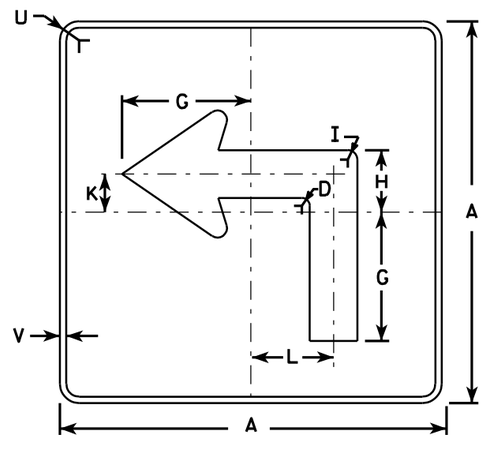
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 270	E



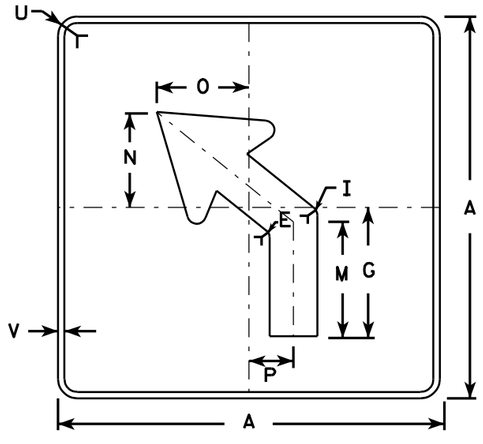
M5-1L
MK5-1L
MM5-1L
MO5-1L
MP5-1L
MR5-1L



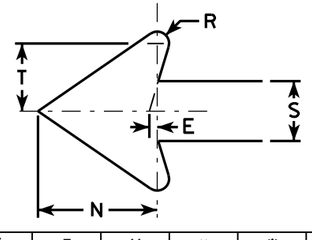
M5-2L
MK5-2L
MM5-2L
MO5-2L
MP5-2L
MR5-2L



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
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White - Type H 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 - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White - Type H Reflective
   Message - Blue
   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.

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	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
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
4	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
5	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

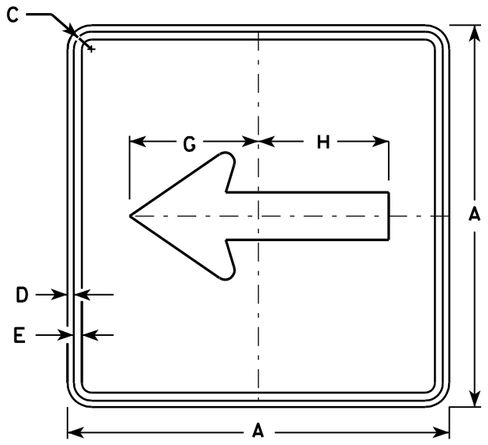
STANDARD SIGN
M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

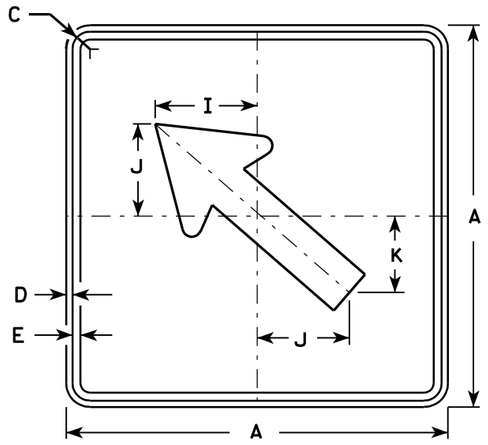
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/29/13 PLATE NO. M5-1.12

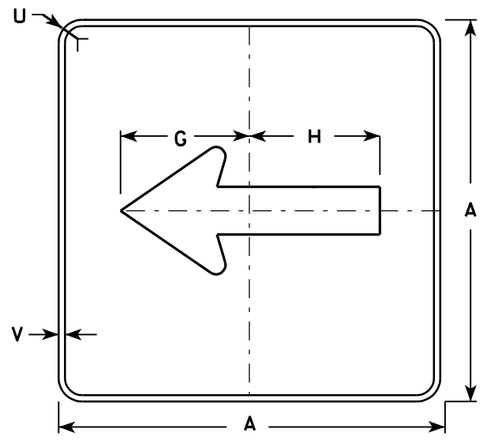
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 271 | E



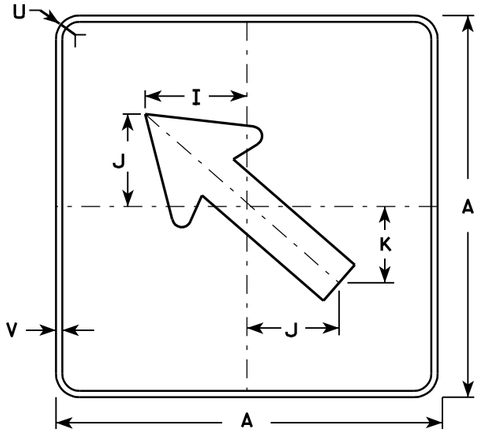
M6-1
MK6-1
MM6-1
MO6-1
MP6-1
MR6-1



M6-2
MK6-2
MM6-2
MO6-2
MP6-2
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
   Message - Black

   MB6-1 and MB6-2 Background - Blue
   Message - White - Type H 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

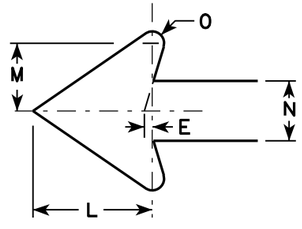
   MM6-1 and MM6-2 Background - White - Type H Reflective
   Message - Green

   MN6-1 and MN6-2 Background - Brown
   Message - White - Type H Reflective

   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black

   MP6-1 and MP6-2 Background - White - Type H Reflective
   Message - Blue

   MR6-1 and MR6-2 Background - Brown
   Message - White - Type H Reflective



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	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
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
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
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

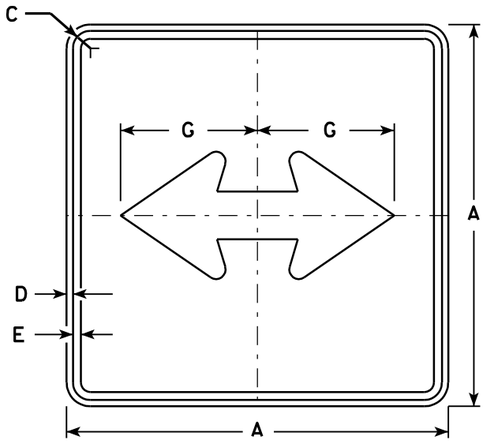
STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

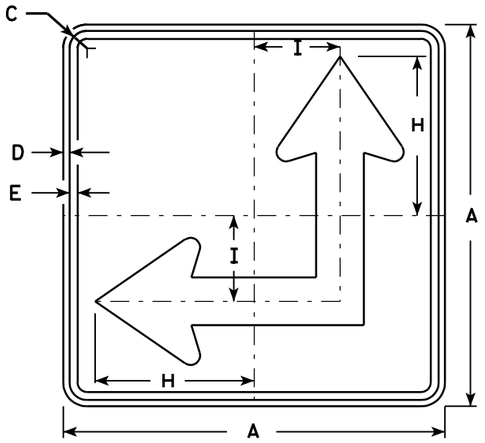
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/29/13 PLATE NO. M6-1.13

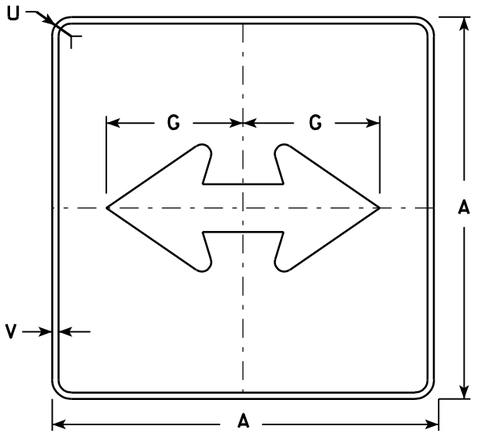
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 272	E



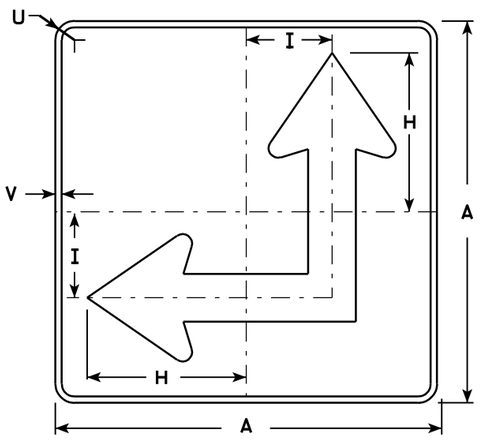
M6-4
MK6-4
MM6-4
MO6-4
MP6-4
MR6-4



M6-6
MK6-6
MM6-6
MO6-6
MP6-6
MR6-6



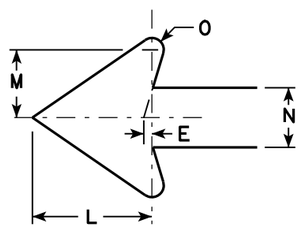
MB6-4
MG6-4
MN6-4



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
   Message - Black
   MB6-4 and MB6-6 Background - Blue
   Message - White - Type H 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 - Type F Reflective
   Message - Black
   MP6-4 and MP6-6 Background - White - Type H Reflective
   Message - Blue
   MR6-4 and MR6-6 Background - Brown
   Message - White - Type H Reflective
5. M6-6R same as M6-6L except arrow points ahead and right.



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	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
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
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
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

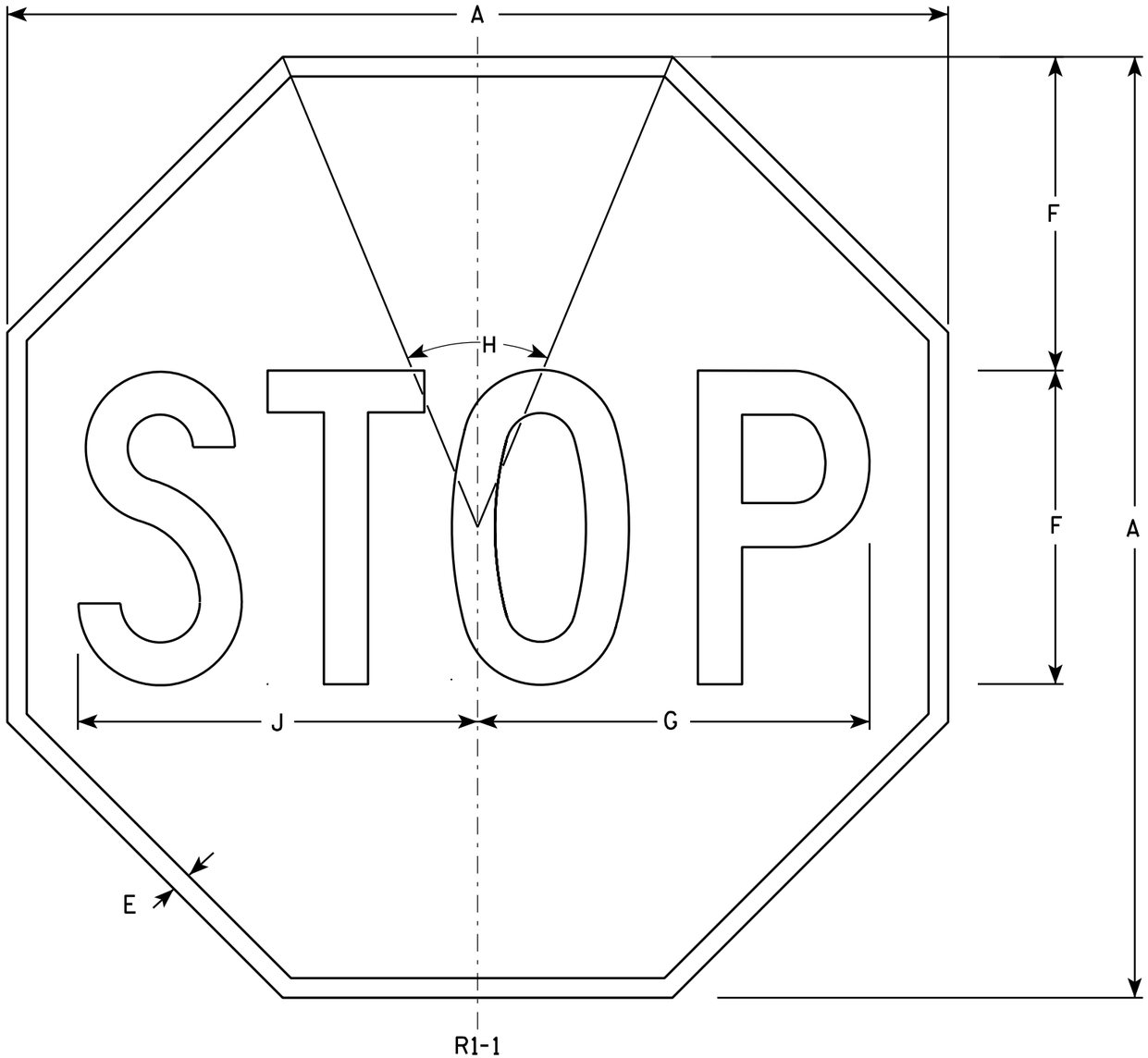
STANDARD SIGN M6-4 & M6-6 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 7/29/13 PLATE NO. M6-4.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 273 | 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

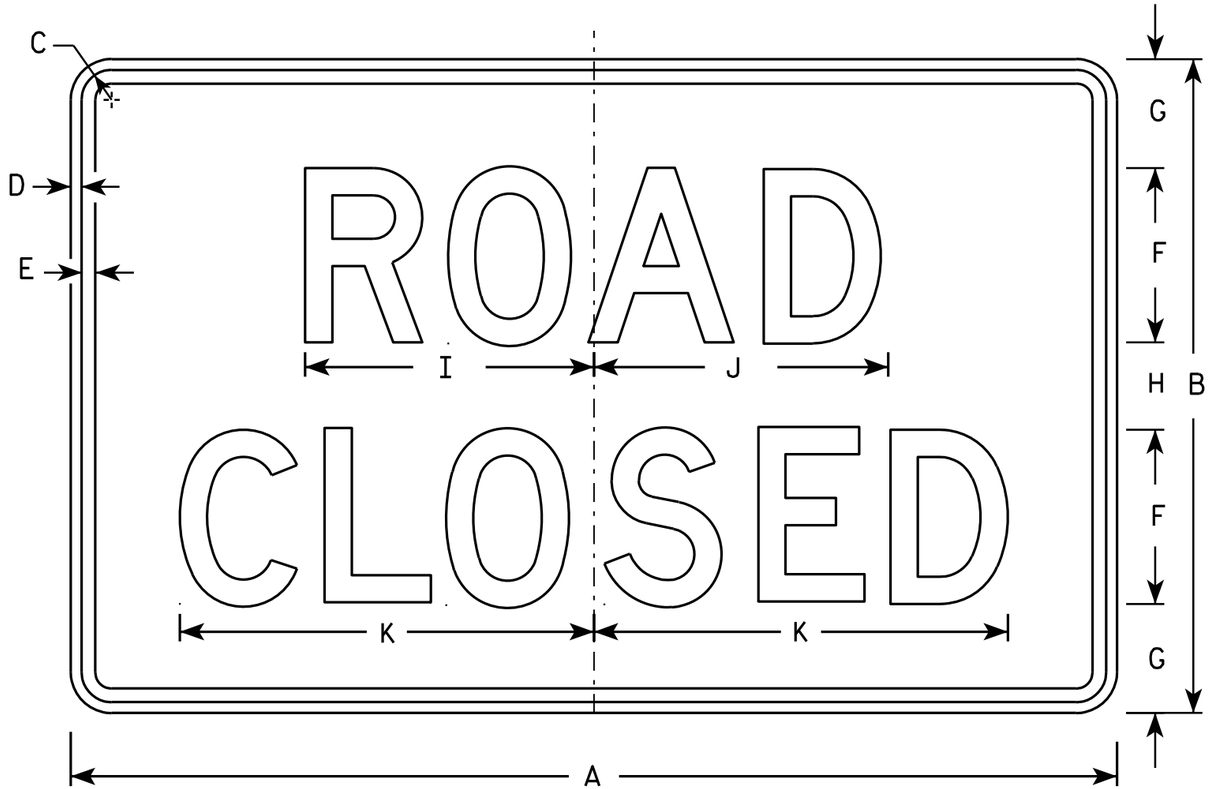
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1.12

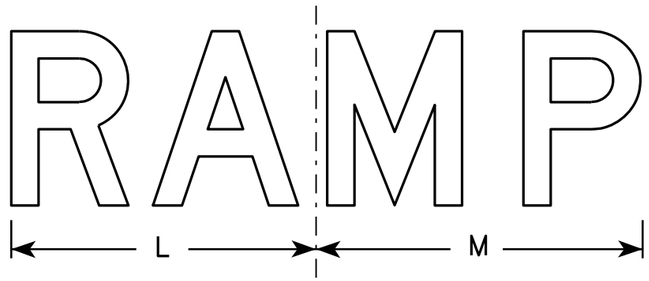
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 274	E



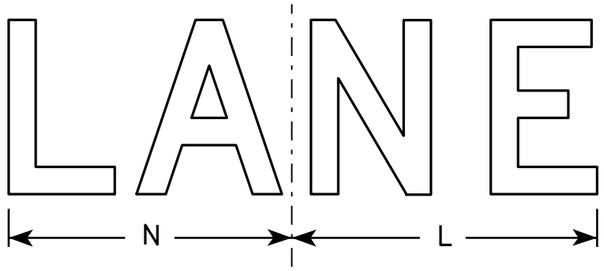
R11-2

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 - 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. Modify the message as required.



R11-2R



R11-2L

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	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0

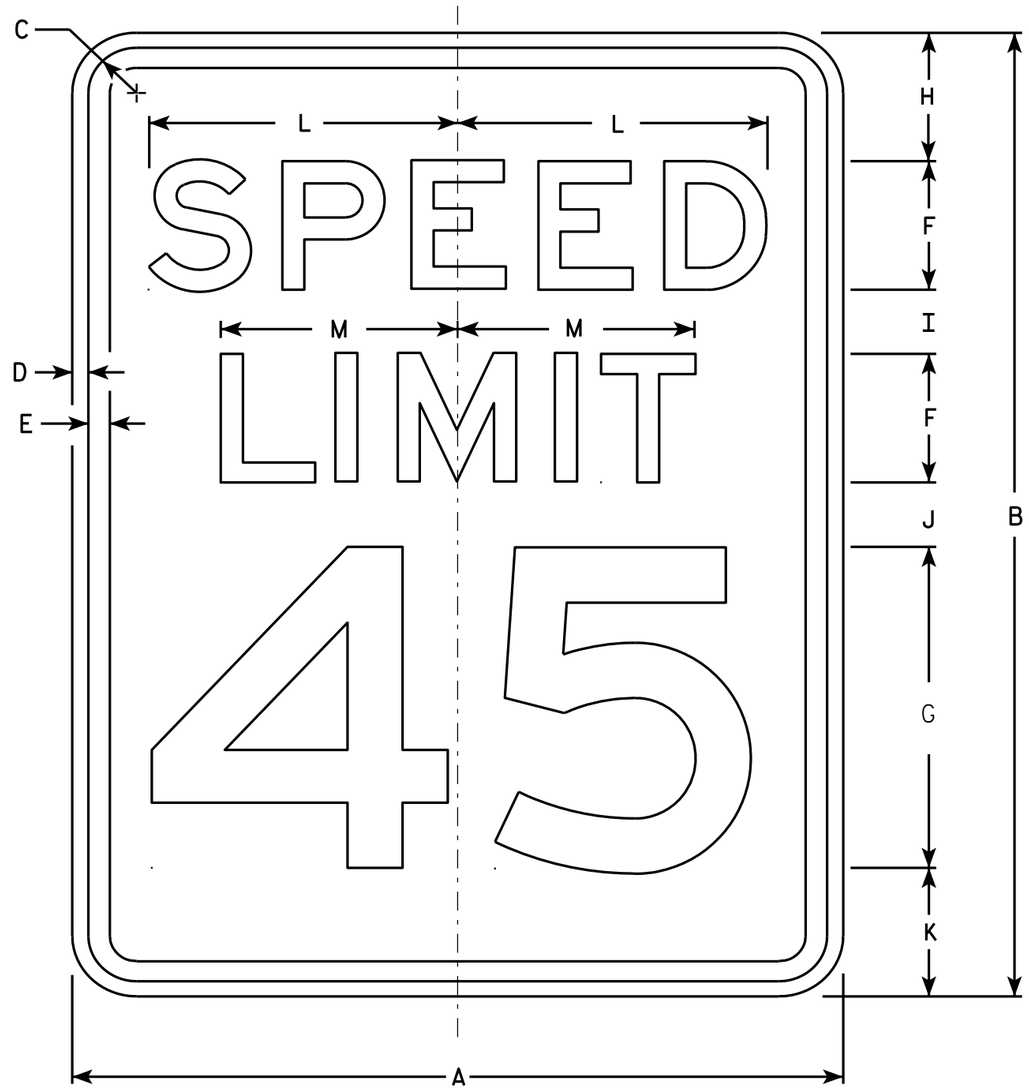
STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 275	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

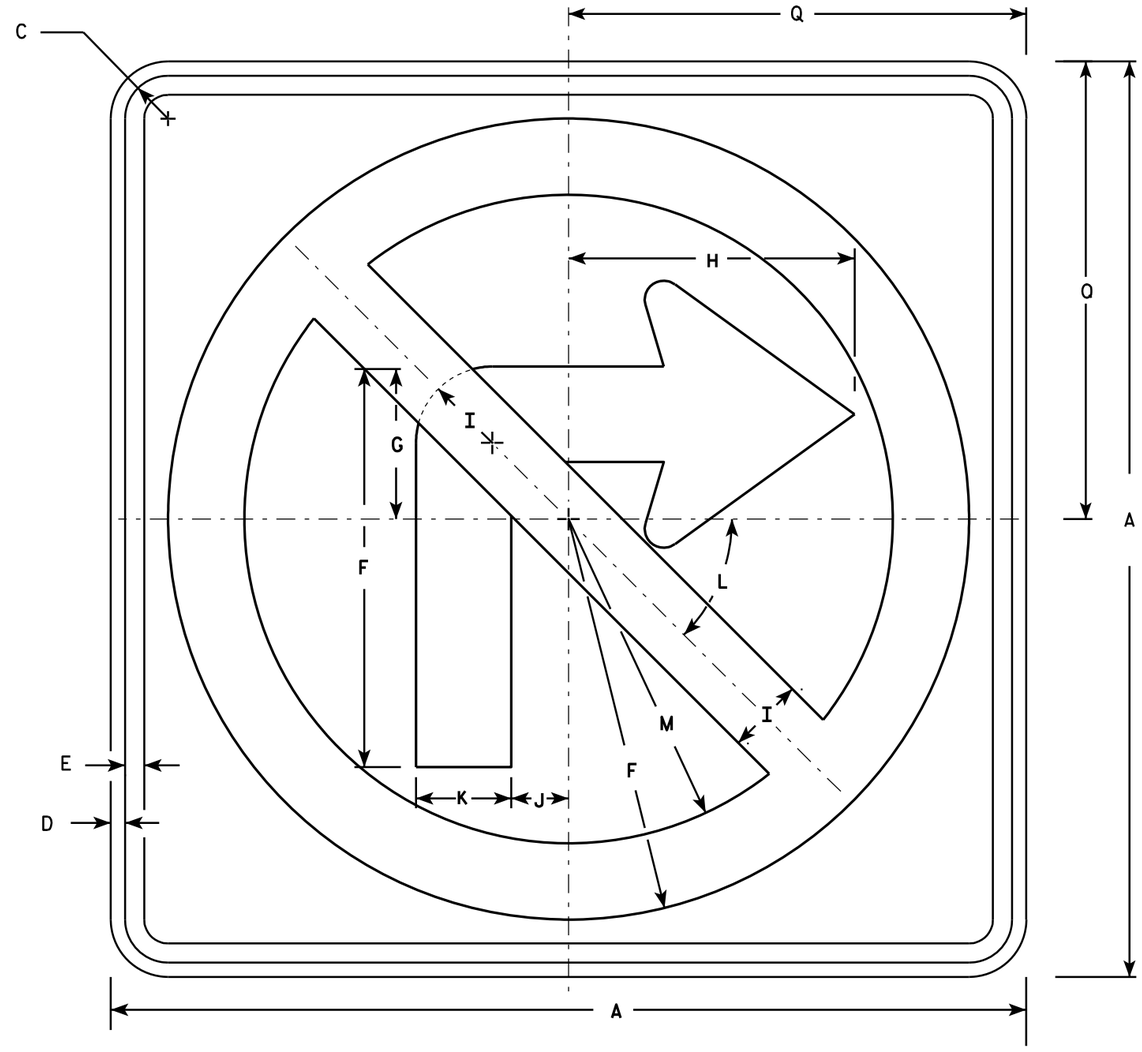
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

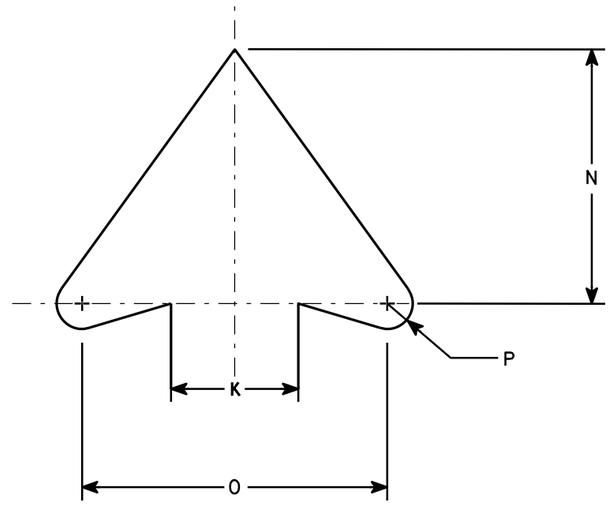
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 276	E



R3-1

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 - 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	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45	8 1/2	5	6	1/2	12										4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2	12										4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4	18										9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1	24										16.0

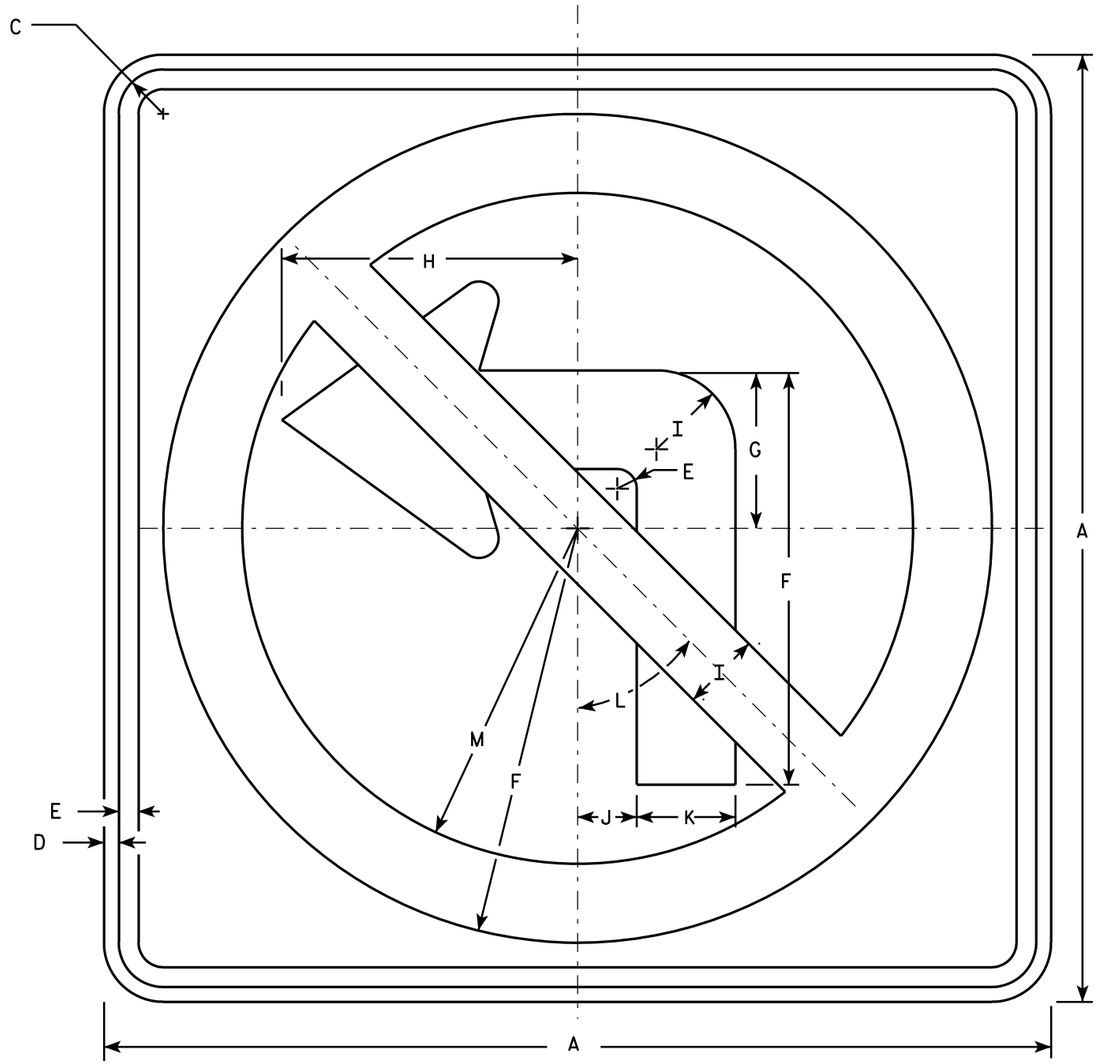
STANDARD SIGN
R3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-1.5

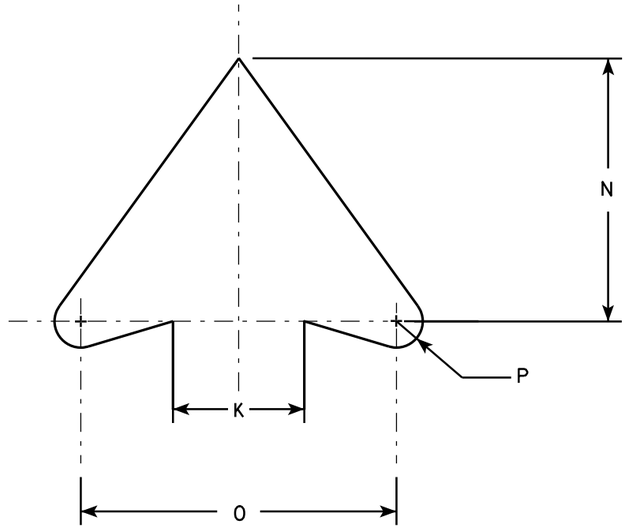
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 277	E



R3-2

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 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	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

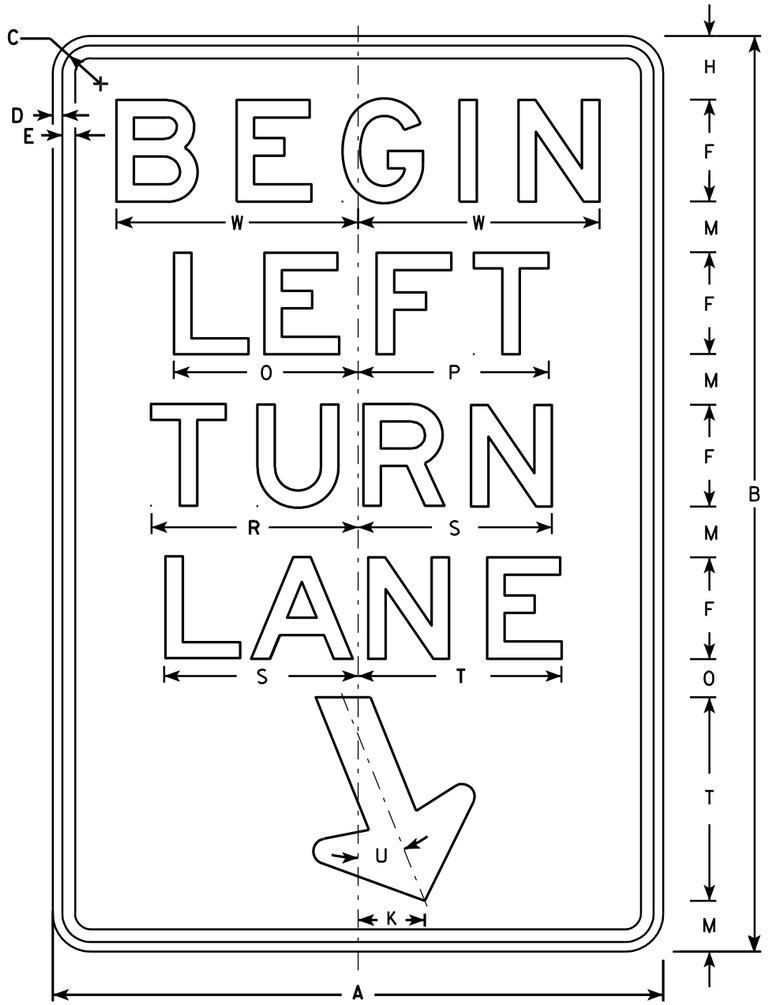
STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-2.10

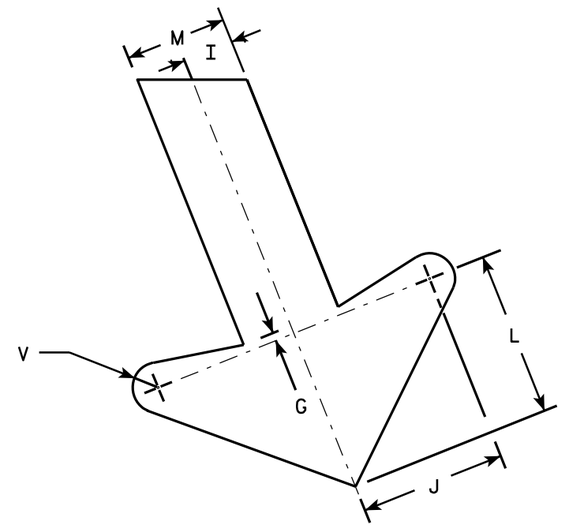
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 278 | E



R3-20L

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.



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	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	10 7/8	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

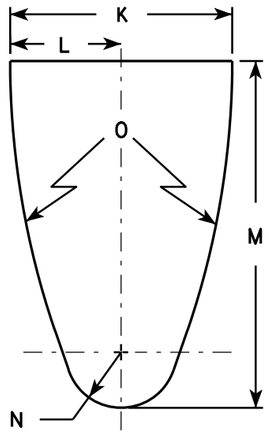
STANDARD SIGN
R3-20L

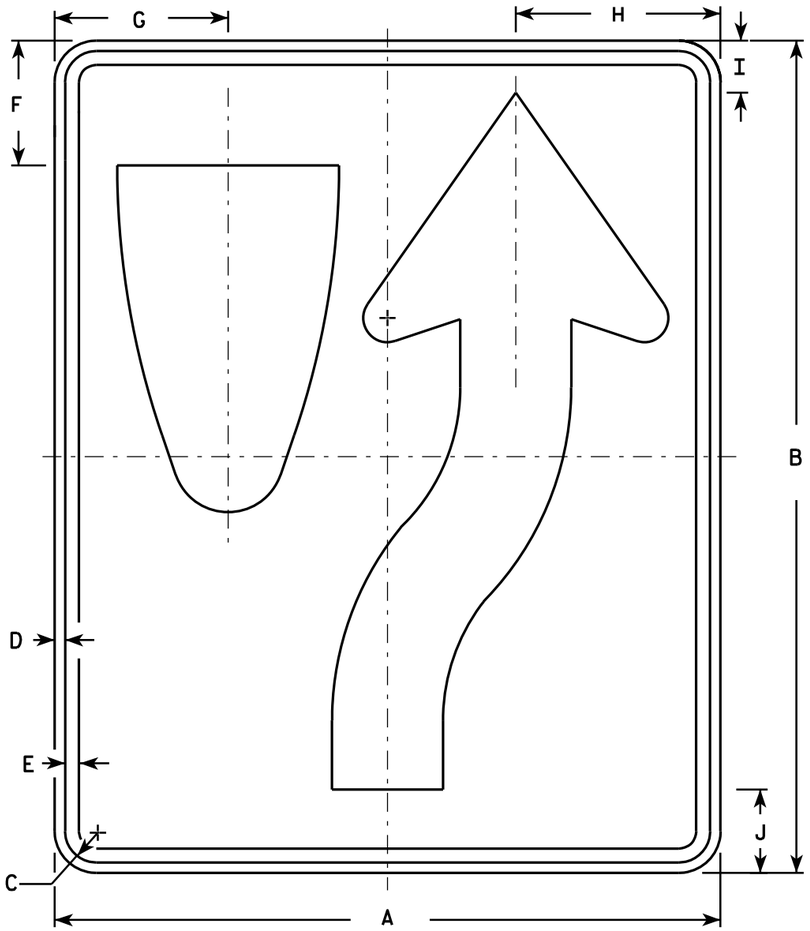
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20L.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 279 | E

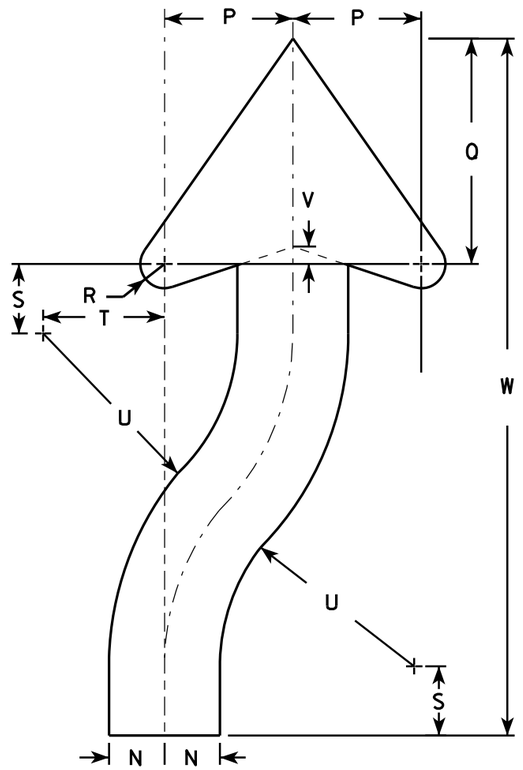




R4-7

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

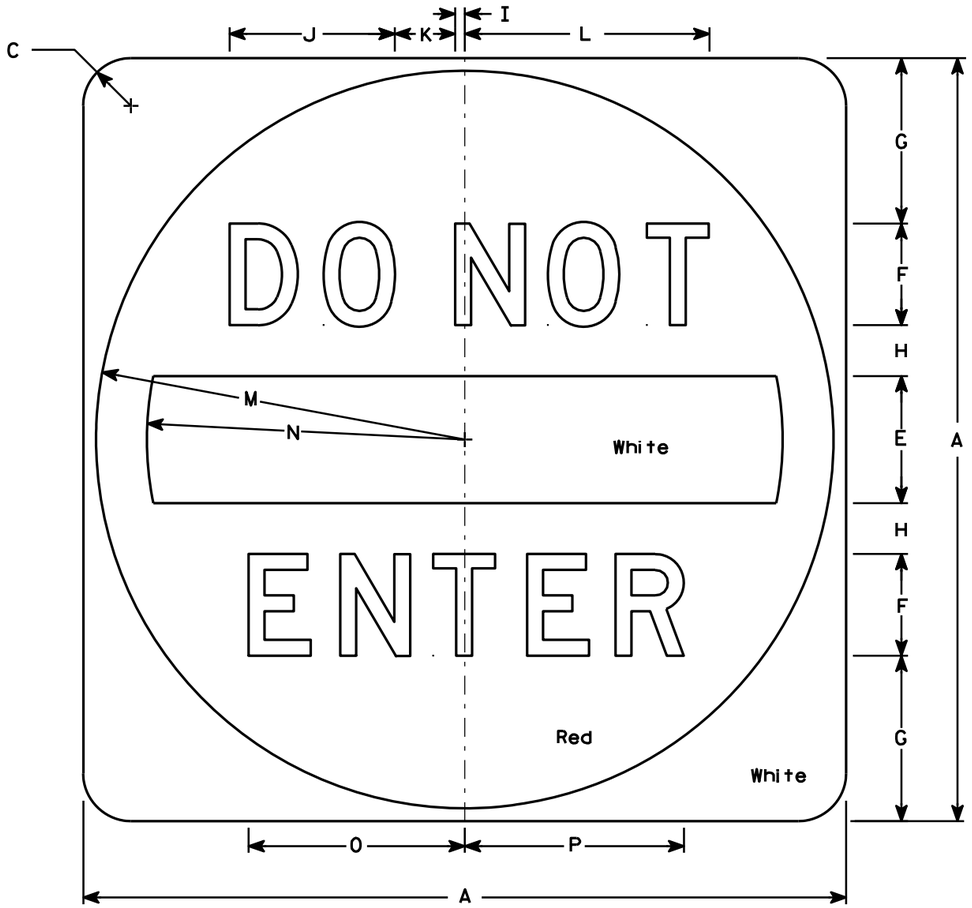
STANDARD SIGN
R4-7 & R4-8

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: 280	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

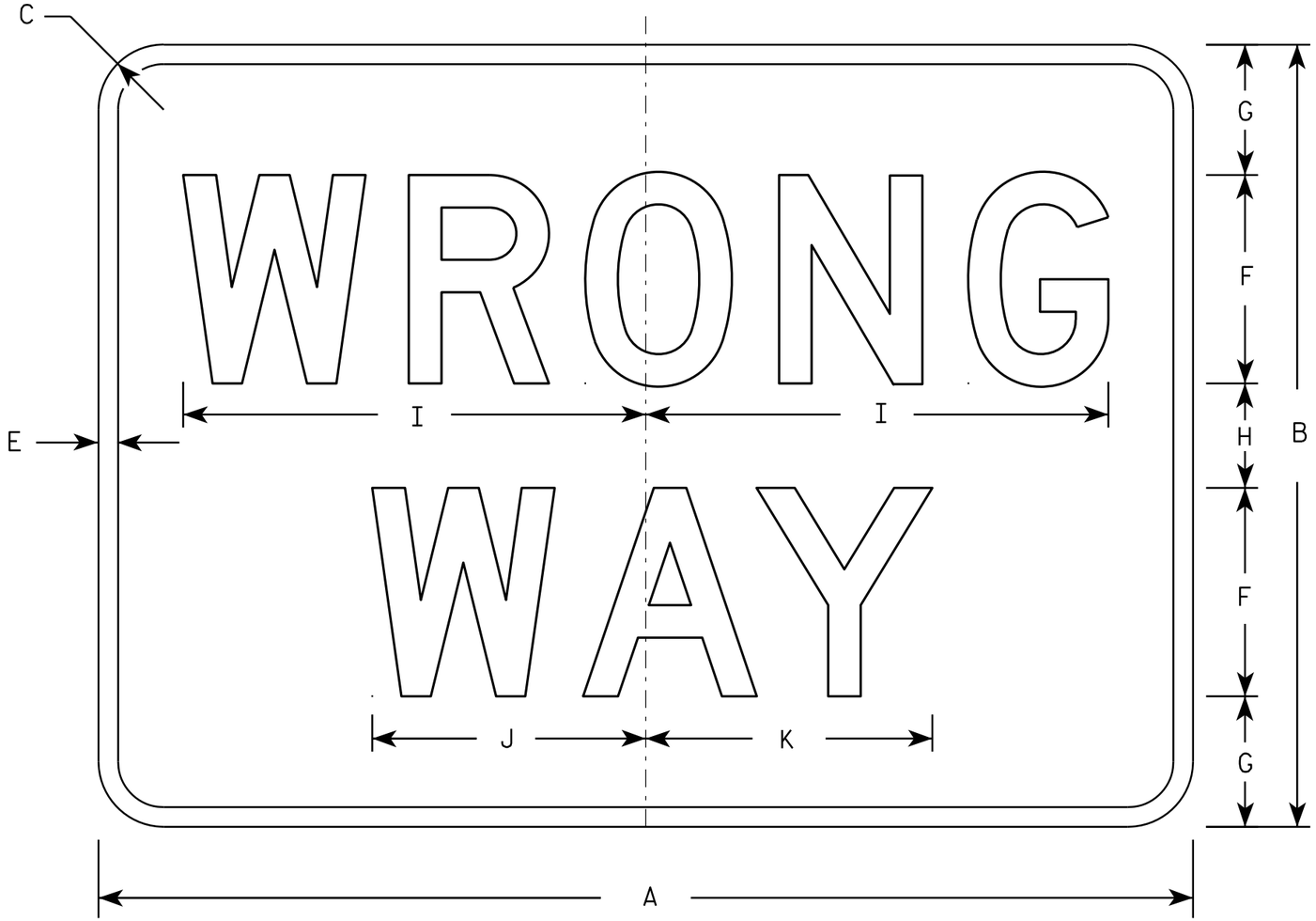
STANDARD SIGN
R5-1

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: 281 | 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: 282	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

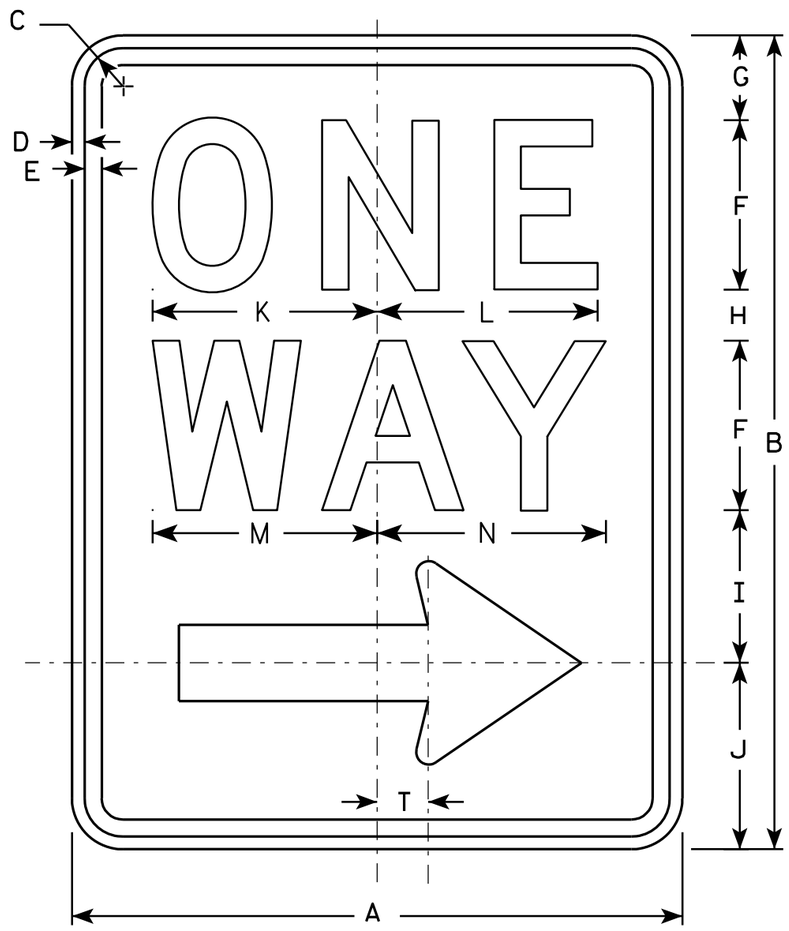
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 283 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R557.DGN PLOT DATE : 29-MAR-2011 14:38 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.959043:1.000000

WISDOT/CADDS SHEET 42

7

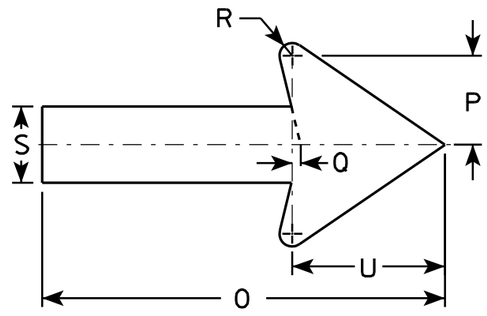
7



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																										

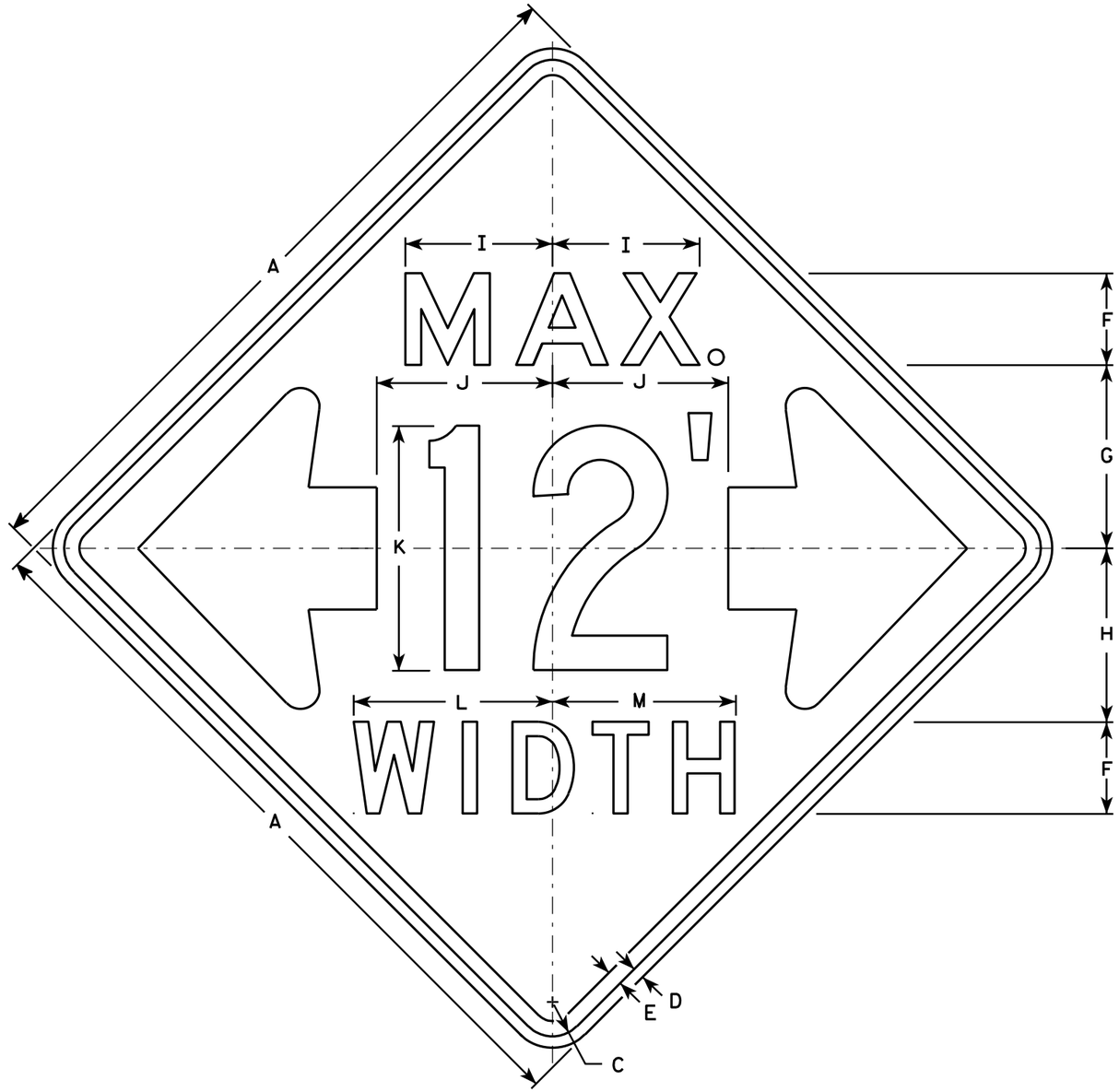
STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

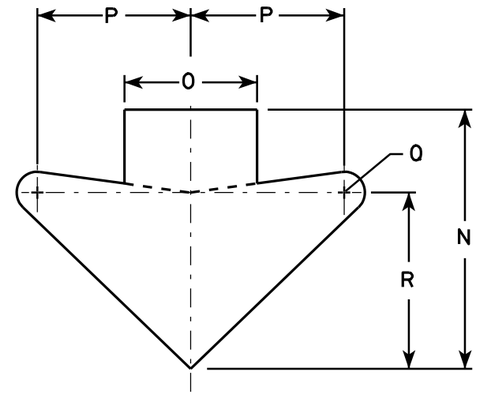
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 284	E



W12-52

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 - 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. The top line is series E, the numerals are series C, and the bottom line is series D.
6. Substitute appropriate numerals and adjust spacing as required.



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	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
2M	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
3																											
4																											
5																											

STANDARD SIGN
W12-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/11 PLATE NO. W12-52.7

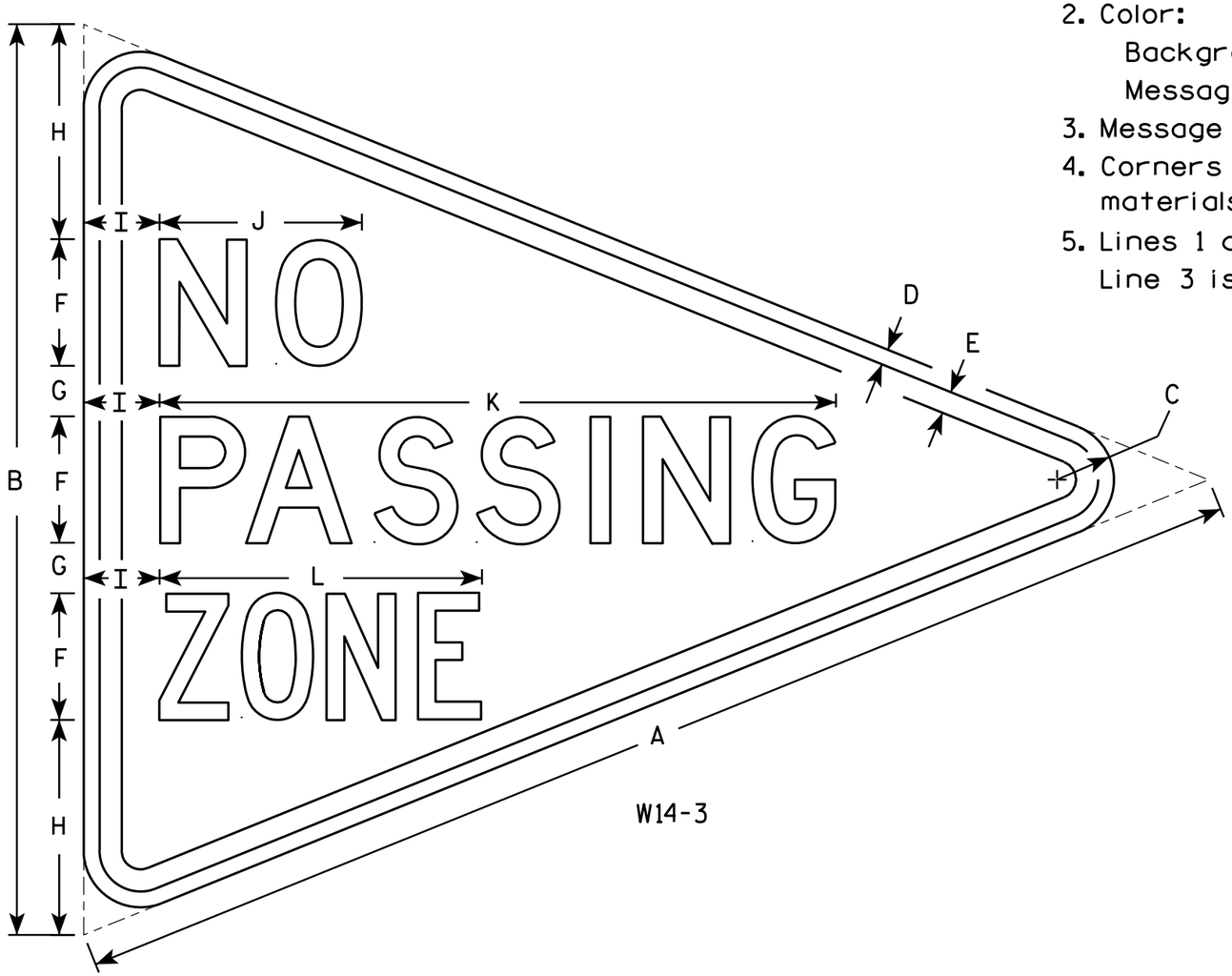
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 285 | E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W1252.DGN PLOT DATE : 16-MAR-2011 14:45 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.137199:1.000000
WISDOT/CADDS SHEET 42

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																											

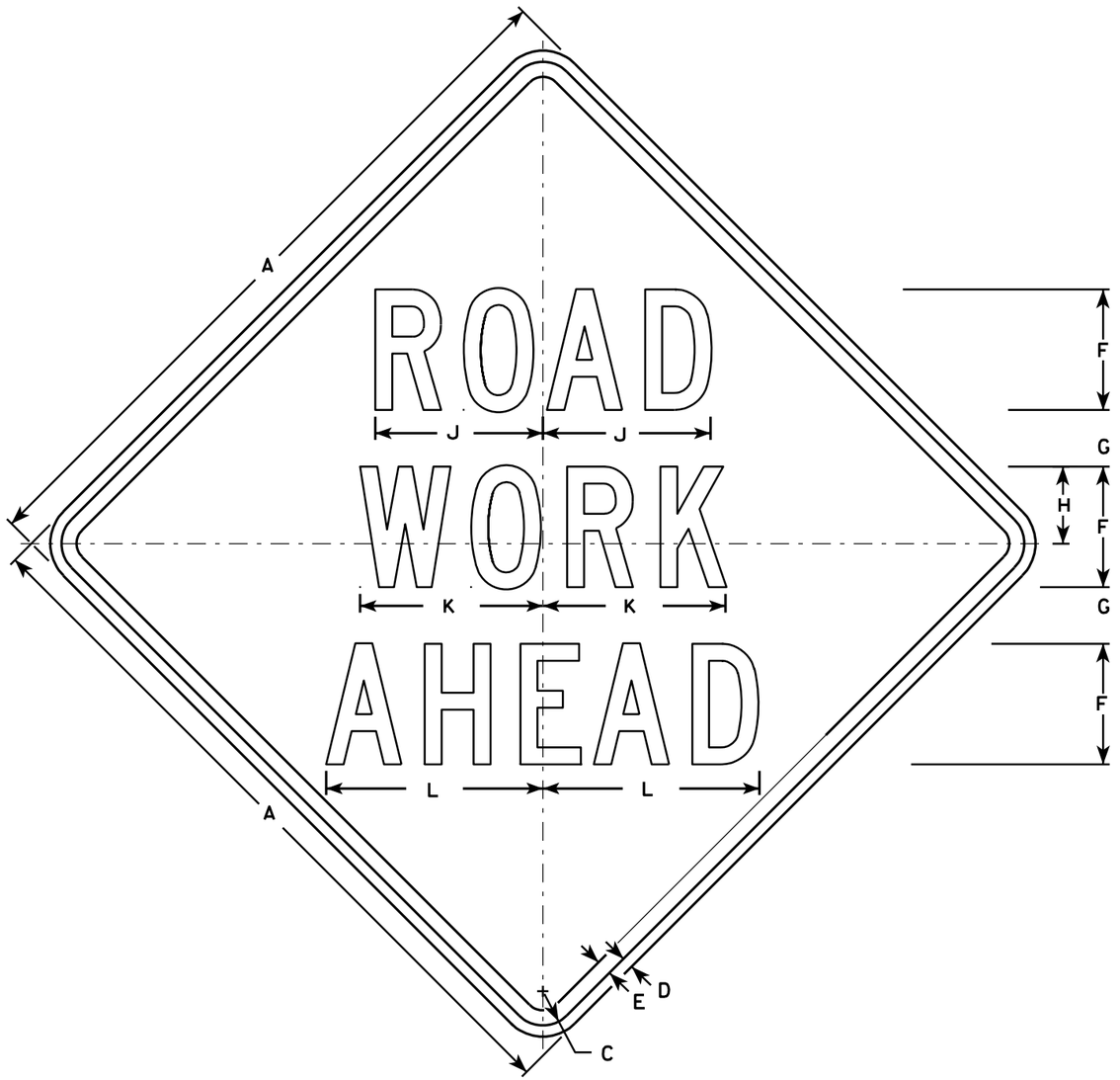
STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

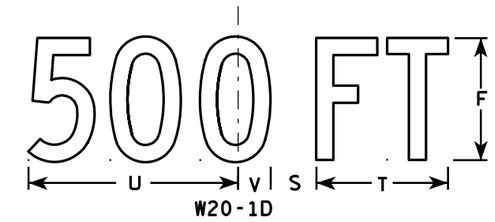
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W14-3.9

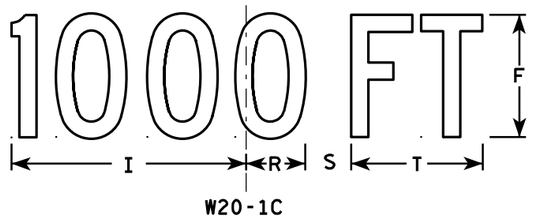
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 286	E



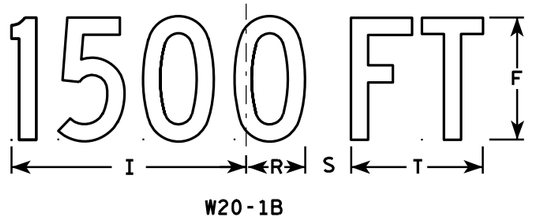
W20-1A



W20-1D



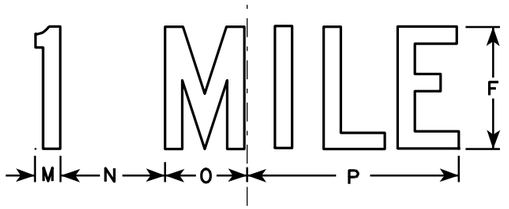
W20-1C



W20-1B



W20-1G



W20-1F

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 - 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	36		1 3/8	1/2	5/8	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9		2 1/2	1 7/8	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8		3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8		3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8		3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8		3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8		3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-1.9

PROJECT NO:

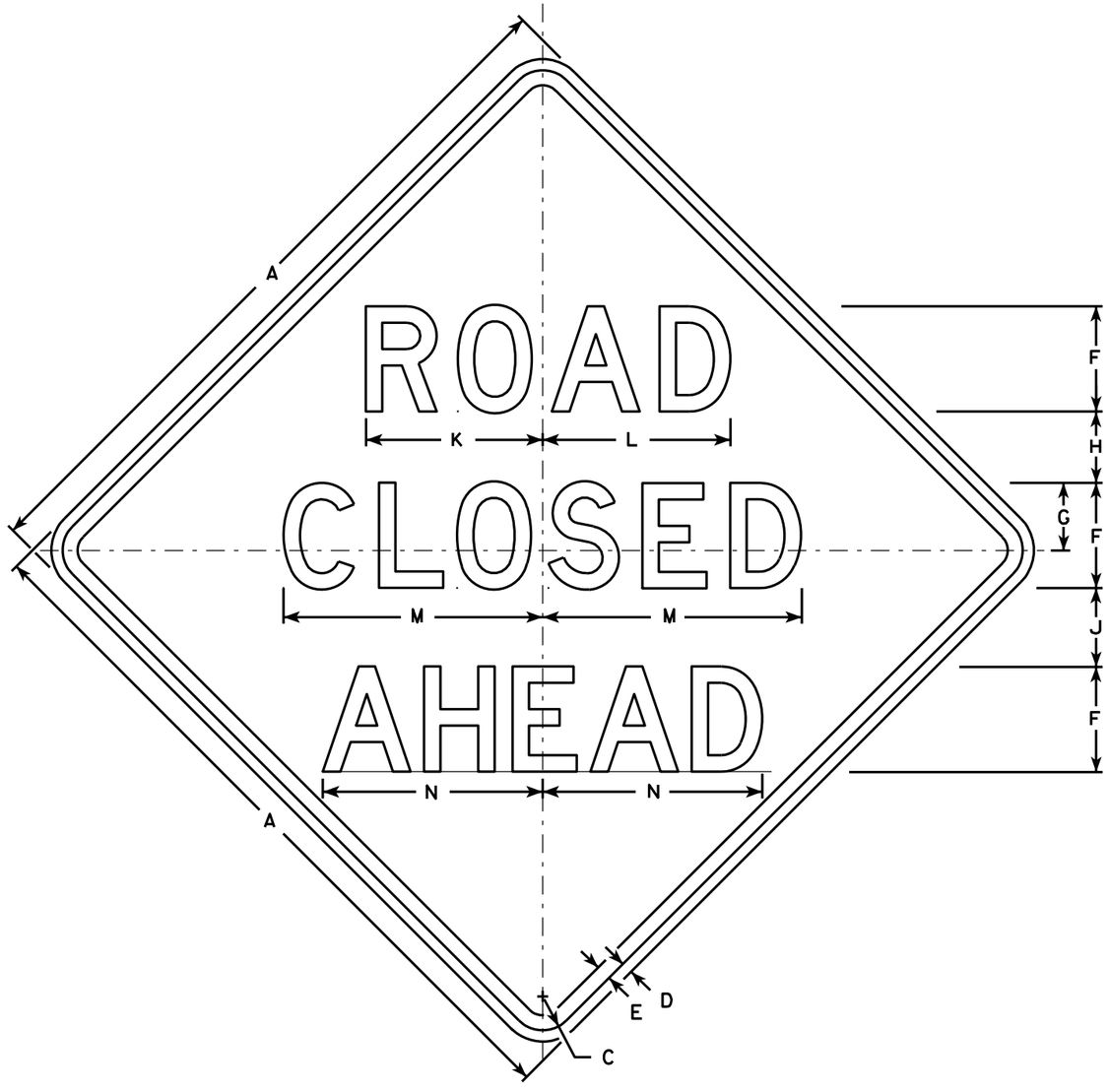
SHEET NO: 287 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W201.DGN PLOT DATE : 18-MAR-2011 09:56 PLOT BY : mscj9h

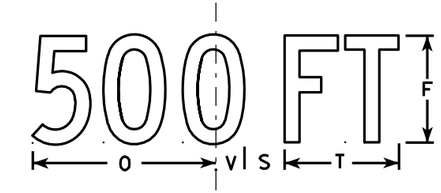
WISDOT/CADDS SHEET 42

7

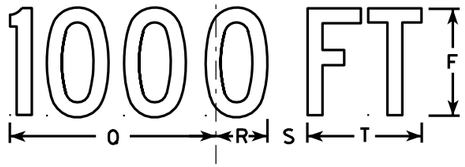
7



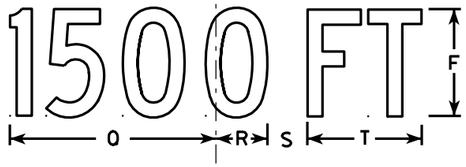
W20-3A



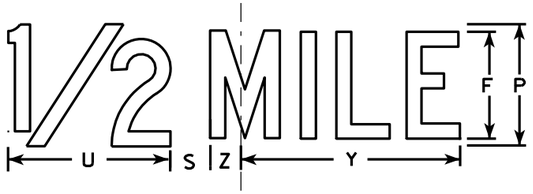
W20-3D



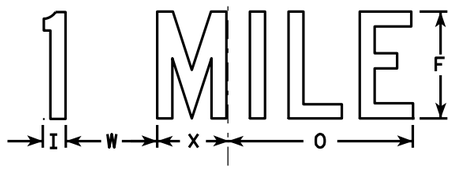
W20-3C



W20-3B



W20-3G



W20-3F

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 - 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. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

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	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

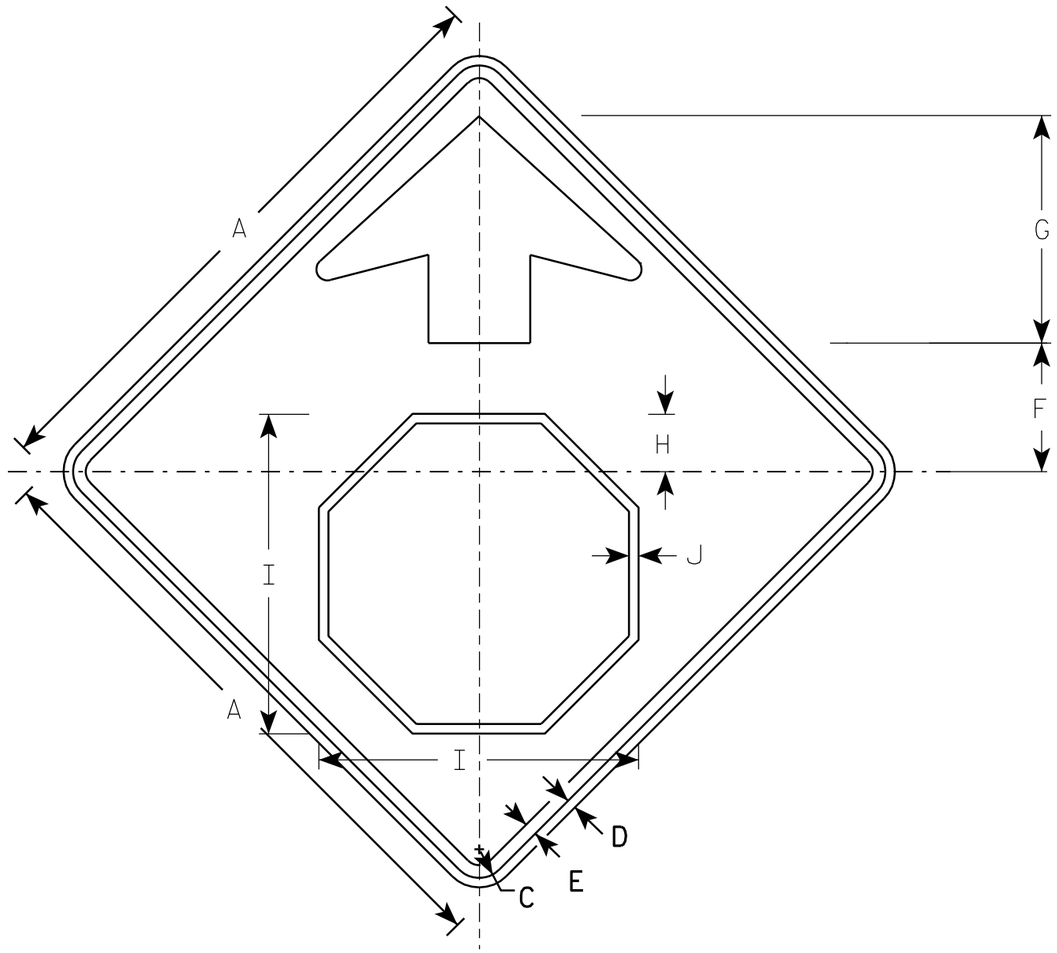
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/18/11 PLATE NO. W20-3.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 288 | E

7

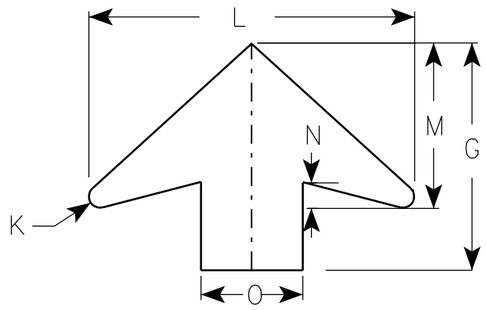
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W203.DGN PLOT DATE : 18-MAR-2011 12:08 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.931739:1.000000
WISDOT/CADDS SHEET 42



W3-1

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
   Stop 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	2 7/8	15 3/4	1/2	1/2	16	8	1 1/4	5												6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0

STANDARD SIGN
W3-1

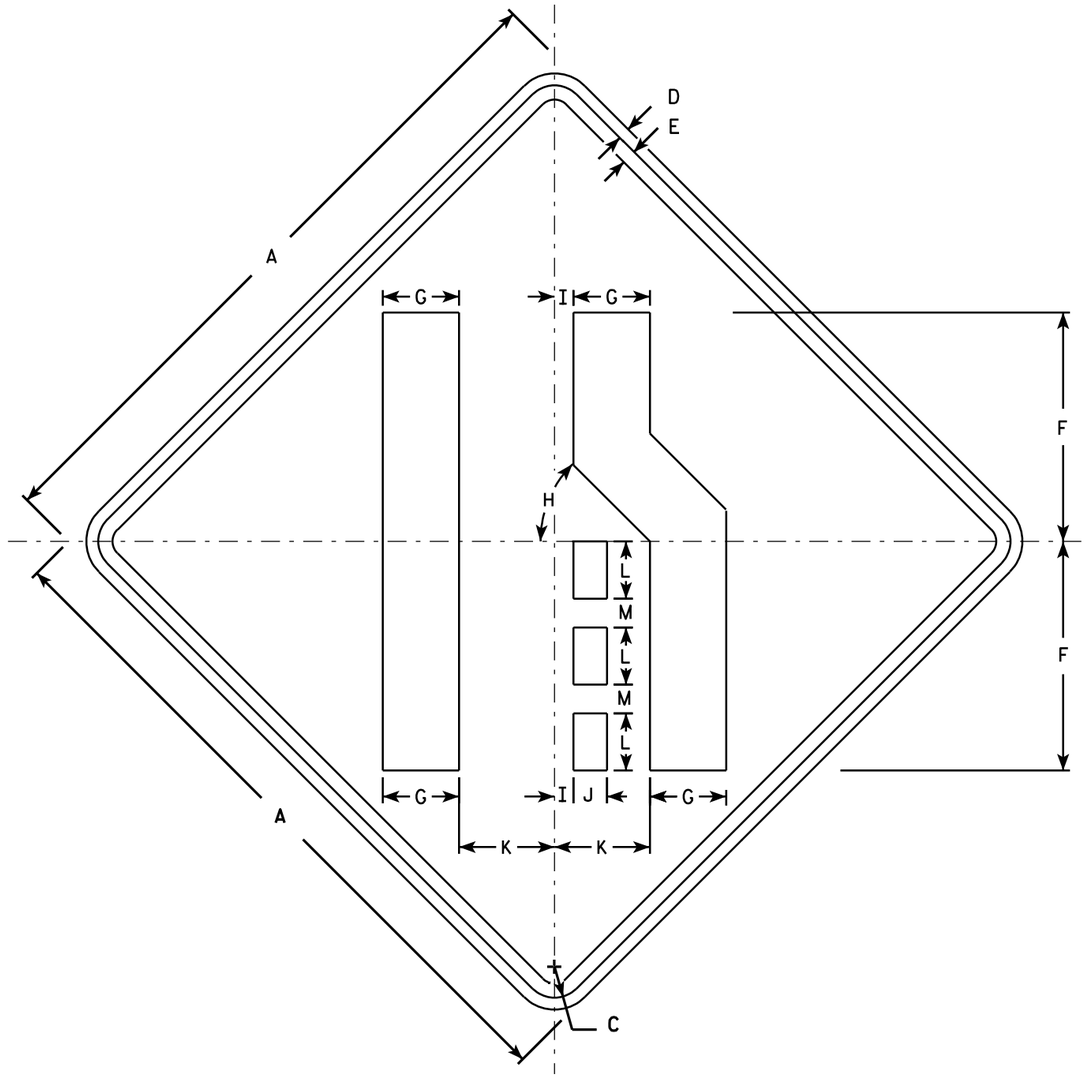
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-1.12

PROJECT NO:

SHEET NO: 289 E



W4-2R

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. 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	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
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

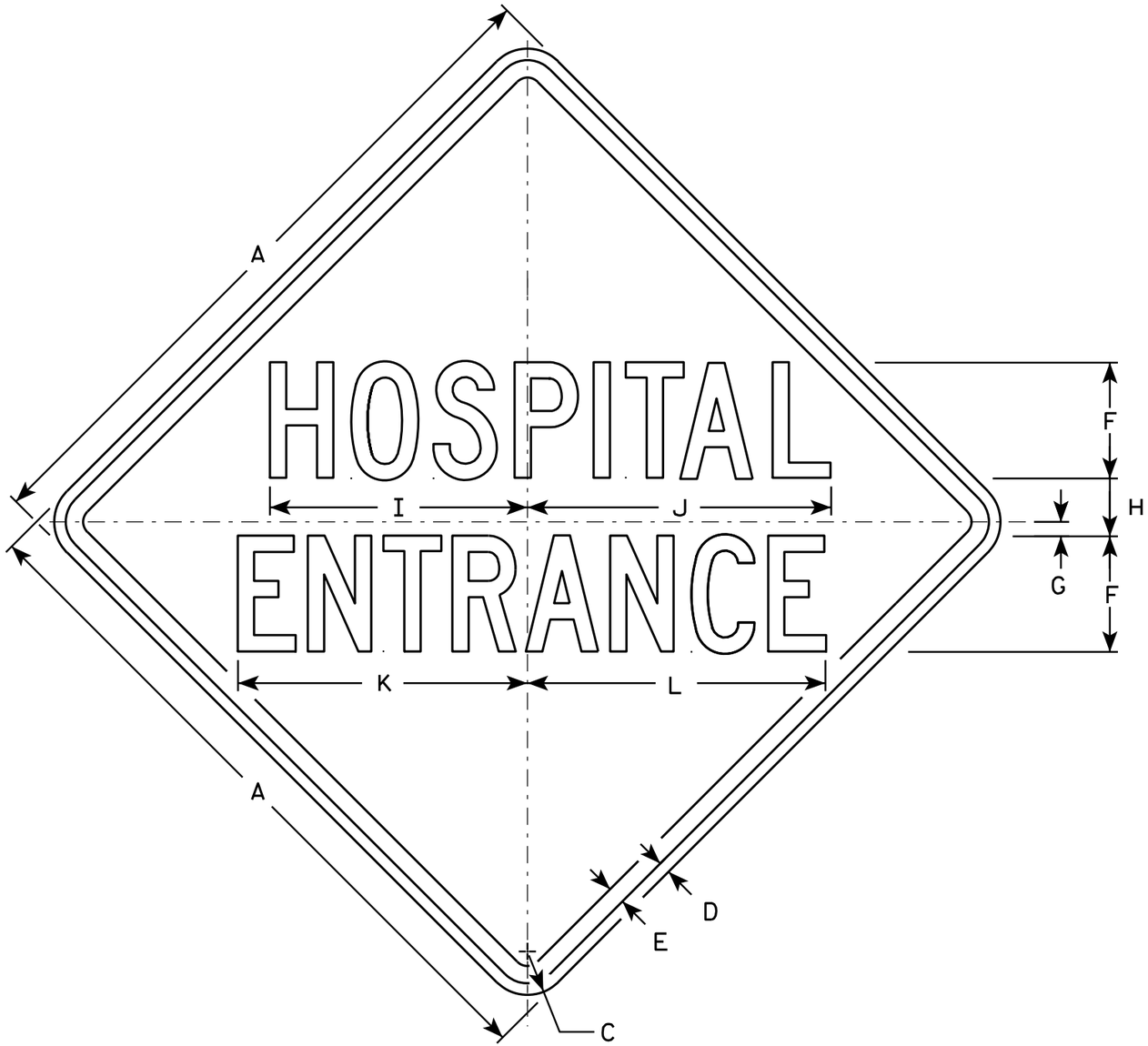
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/12/13 PLATE NO. W4-2.14

PROJECT NO:

SHEET NO: 290 E



W54-59

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 - 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	30		1 3/8	1/2	5/8	5	5/8	2 1/2	11 1/8	13 1/8	12 1/2	12 7/8															6.25
2M	36		1 5/8	5/8	3/4	6	3/4	3	13 3/8	15 3/4	15	15 3/8															9.00
3	36		1 5/8	5/8	3/4	6	3/4	3	13 3/8	15 3/4	15	15 3/8															9.00
4																											
5																											

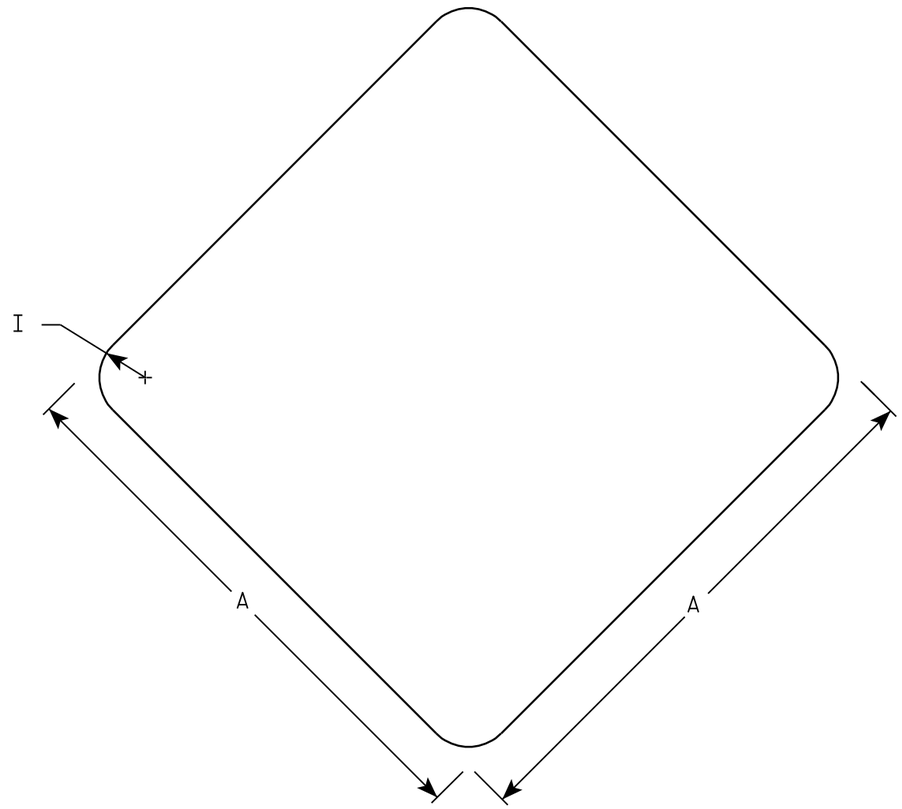
STANDARD SIGN
W54-59

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W54-59.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 291	E



W5-54

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
3. Corners may be square or rounded when base material is plywood. When base material is metal the corners 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	12								1																		1.0
2S	18								1 ½																		2.25
2M	18								1 ½																		2.25
3																											
4																											
5																											

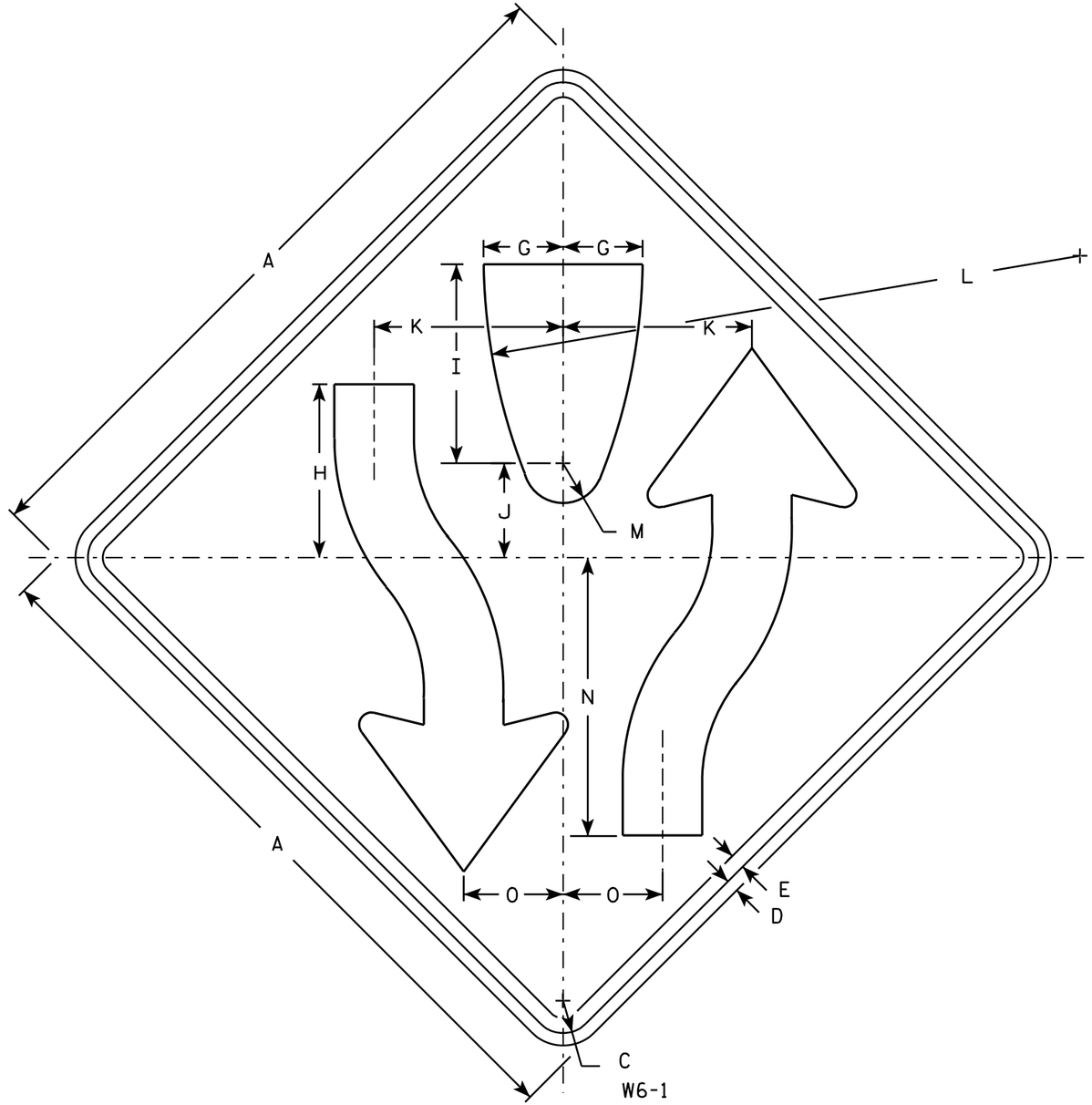
STANDARD SIGN
W5-54

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

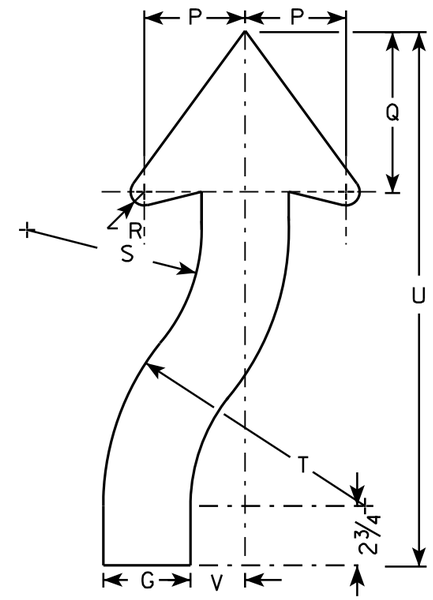
DATE 11/3/10 PLATE NO. W5-54.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 292 | 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. 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

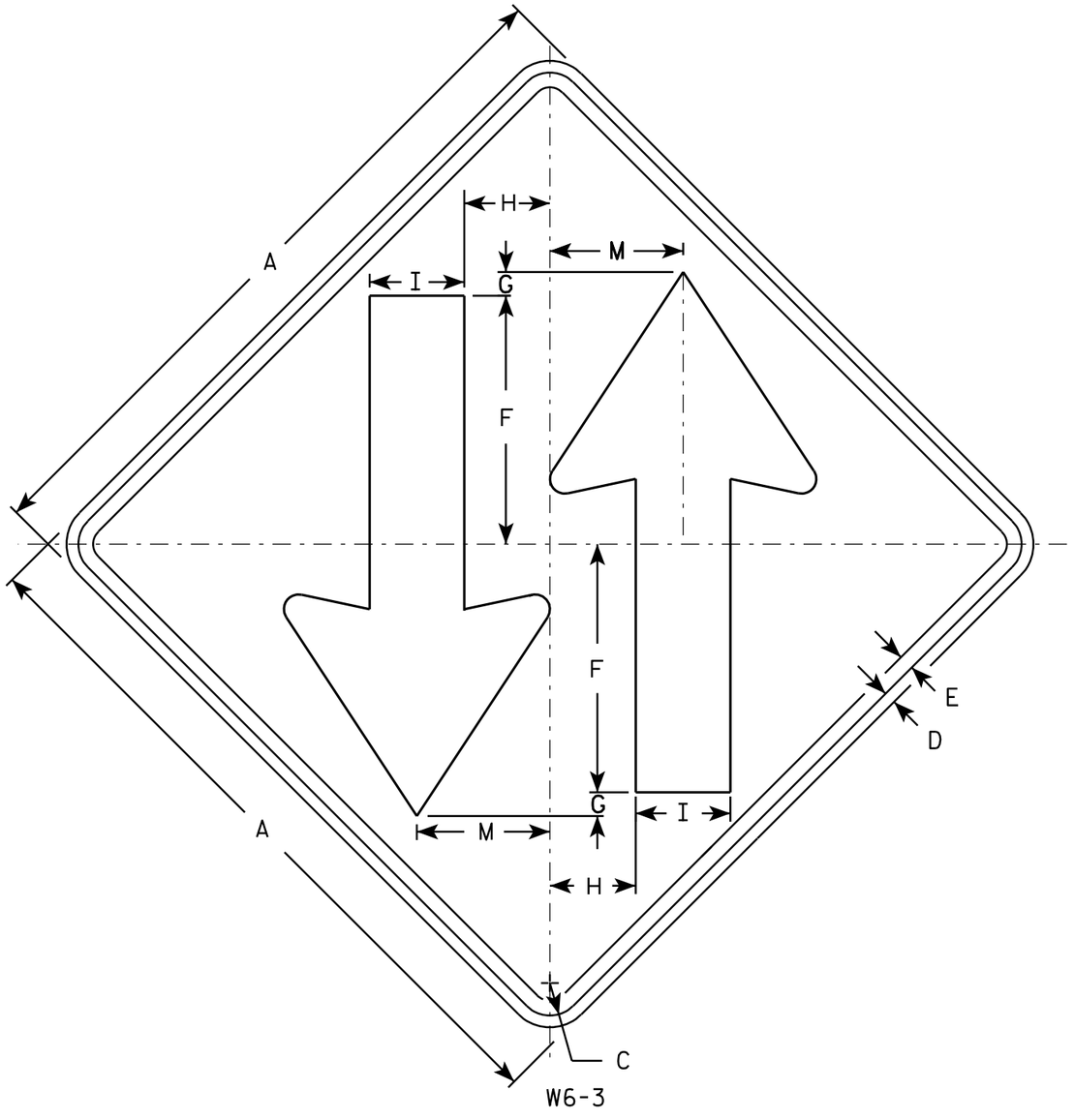
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W6-1.14

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 293	E

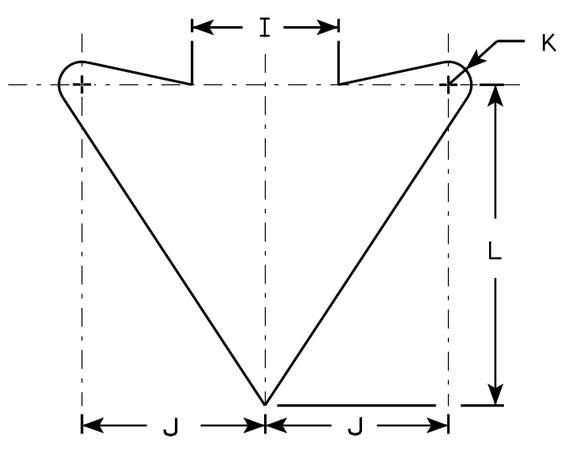
7

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W61.DGN PLOT DATE : 12-MAR-2013 14:02 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.946657:1.000000
WISDOT/CADDS SHEET 42



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. 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

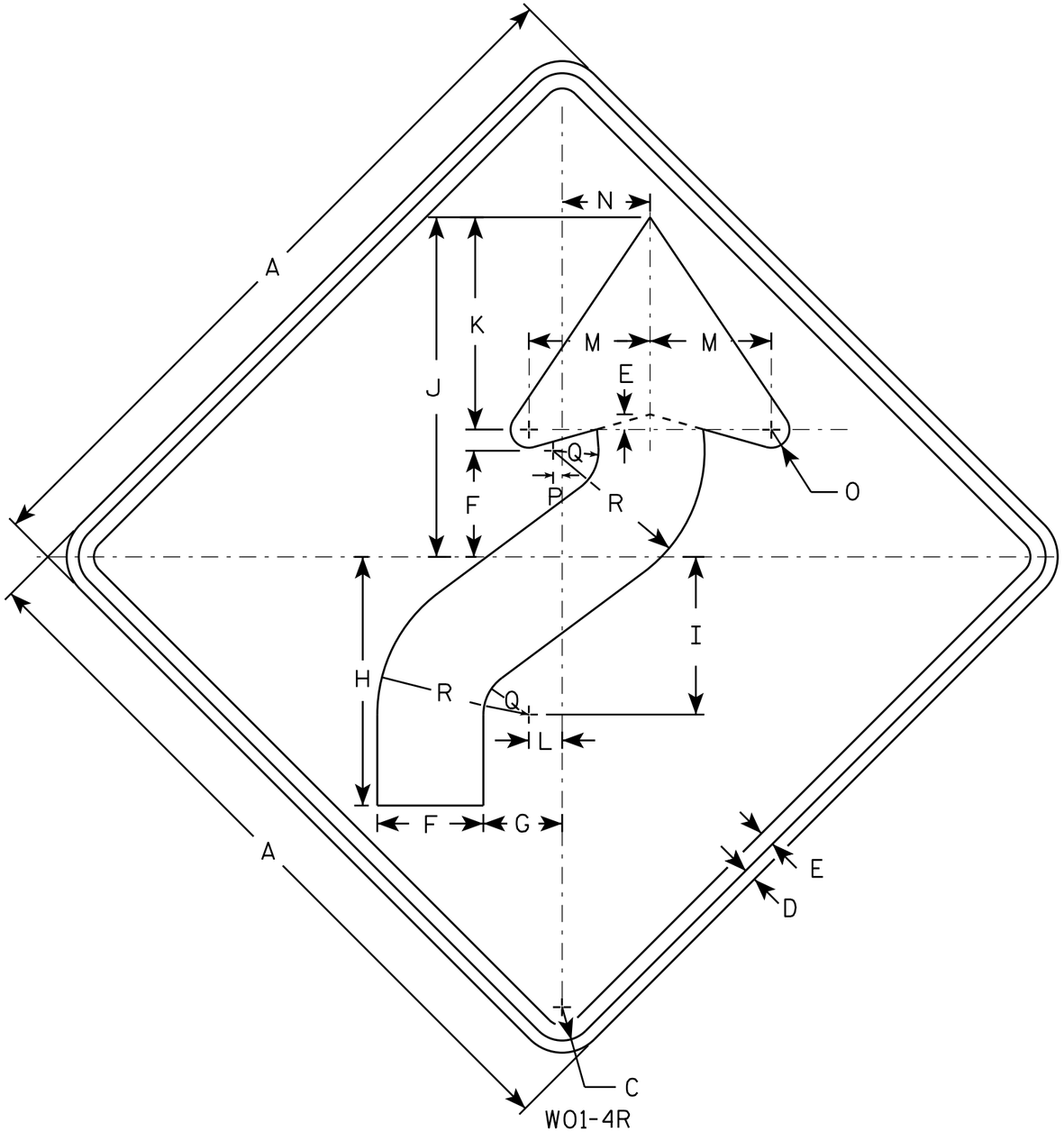
STANDARD SIGN
W6-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W6-3.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 294	E



W01-4R

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. 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. W01-4L is the same as W01-4R 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	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
2S	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
2M	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
3	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
4	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
5	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

STANDARD SIGN
W01-4

WISCONSIN DEPT OF TRANSPORTATION

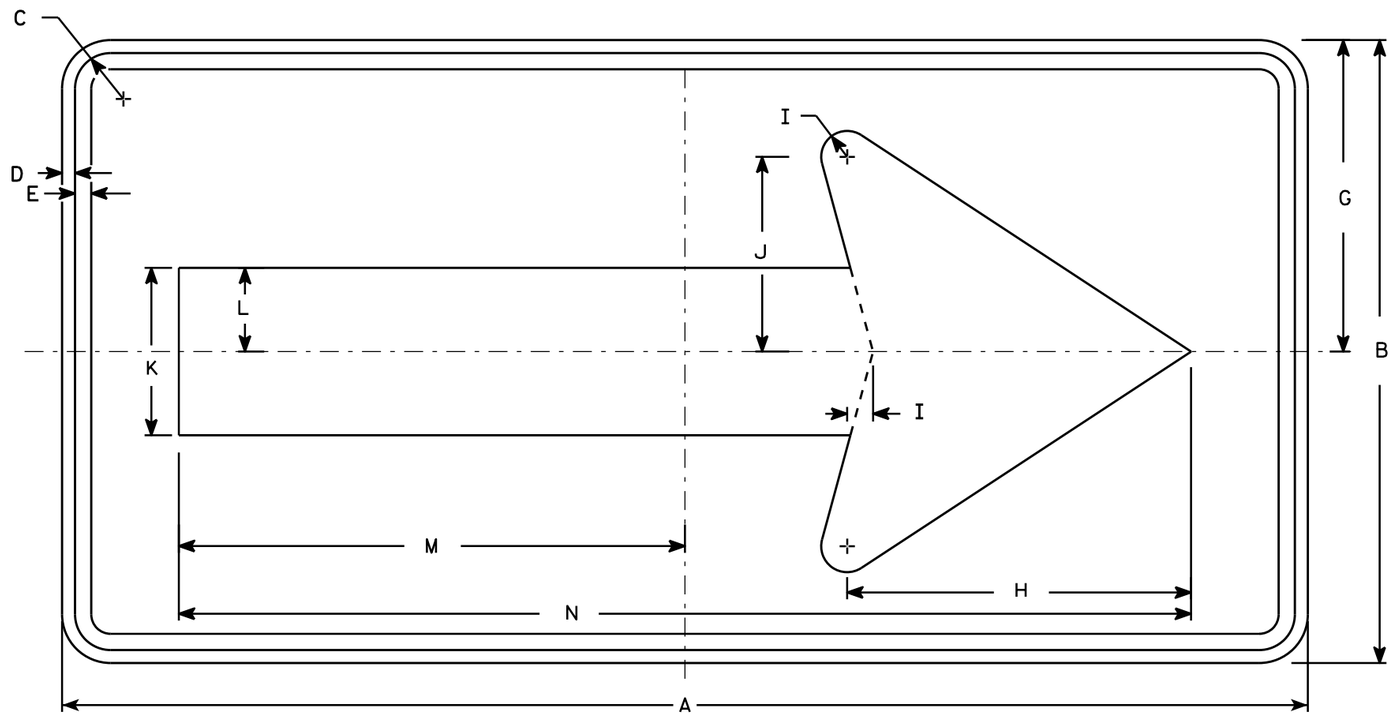
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO W01-4.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W014.DGN PLOT DATE : 28-FEB-2014 11:35 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 6.755110:1.000000
WISDOT/CADDS SHEET 42

7



W01-6

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. 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	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5

STANDARD SIGN
W01-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

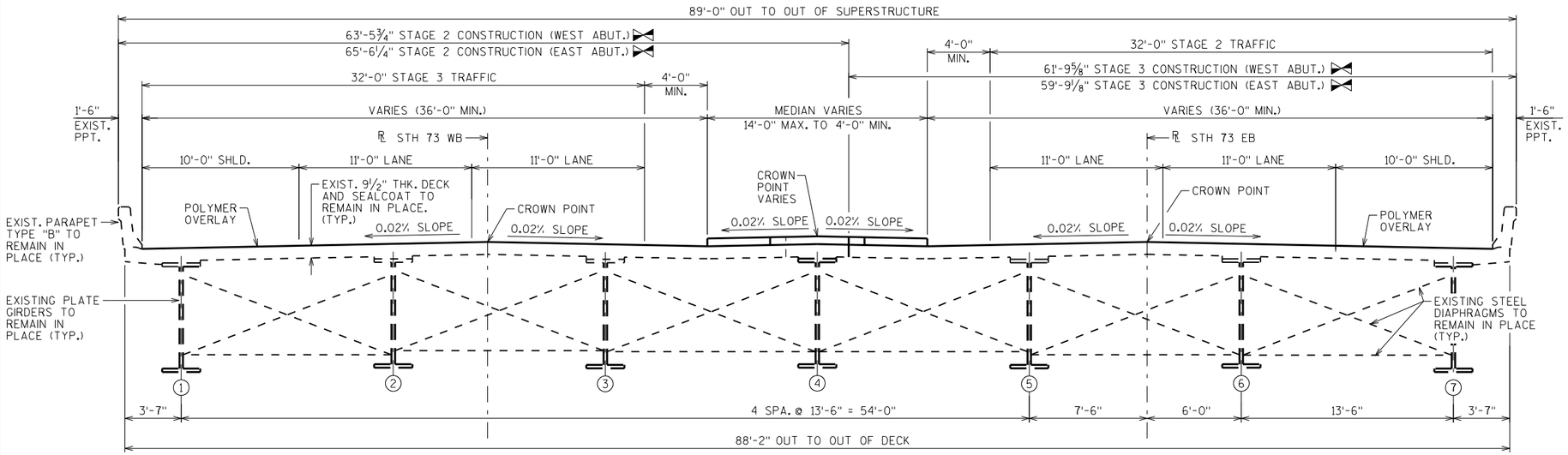
DATE 11/18/13 PLATE W01-6.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

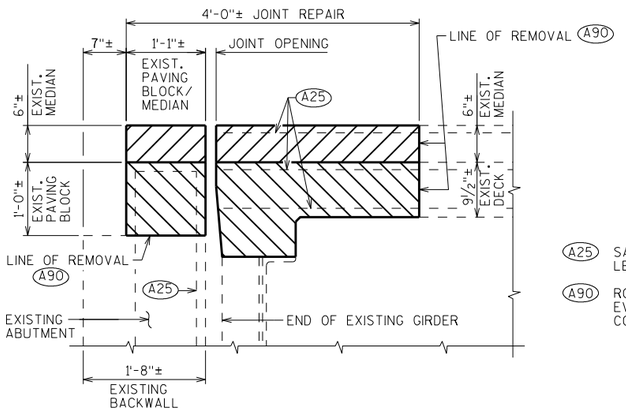
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W016.DGN PLOT DATE : 28-FEB-2014 11:37 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.837526:1.000000 WISDOT/CADDS SHEET 42

STATE PROJECT NUMBER

3060-02-70



ELEVATION - LOOKING EAST



JOINT REPAIR REMOVAL DETAIL

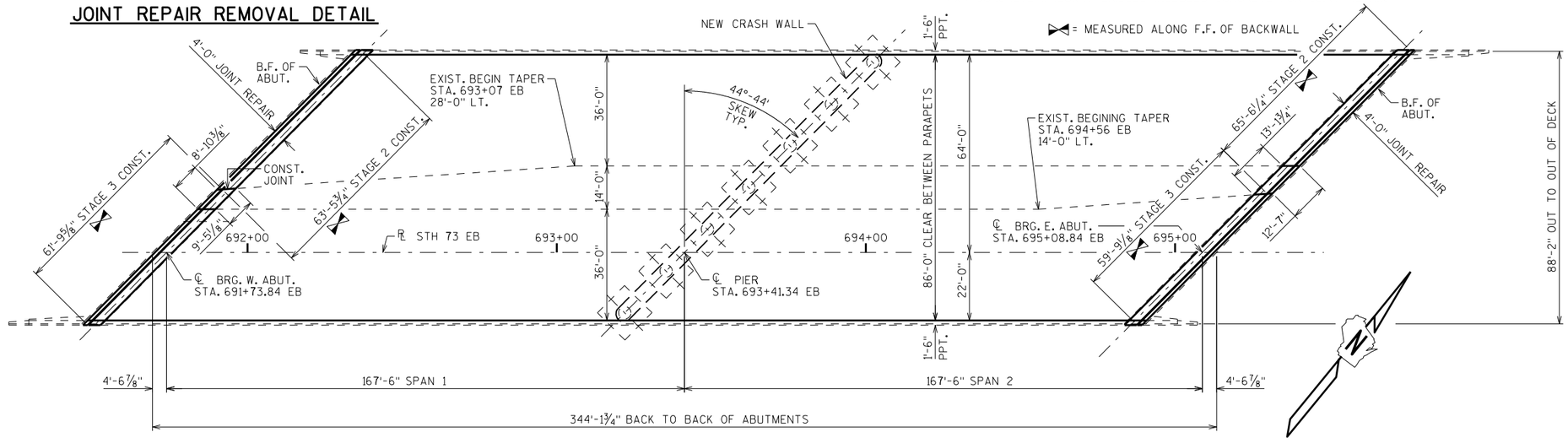
A25 SALVAGE EXIST. REINF. & EXTEND FULL LENGTH INTO NEW WORK.

A90 ROUGHEN EXISTING CONCRETE ¼" MIN. EVERYWHERE NEW CONCRETE COMES INTO CONTACT WITH EXISTING CONCRETE.

TOTAL ESTIMATED QUANTITIES

	BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
	206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-11-74	LS	1
***	502.0100	CONCRETE MASONRY BRIDGES	CY	135
	502.3100	EXPANSION DEVICE B-11-74	LS	1
	502.3200	PROTECTIVE SURFACE TREATMENT	SY	9
	502.5005	MASONRY ANCHORS TYPE L NO. 5 BAR	EACH	240
	502.5010	MASONRY ANCHORS TYPE L NO. 6 BAR	EACH	192
	505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	18,420
	505.0905	BAR COUPLERS NO. 5	EACH	6
	505.0906	BAR COUPLERS NO. 6	EACH	20
	509.1000	JOINT REPAIR	SY	111
	509.5100.S	POLYMER OVERLAY	SY	2810
		NON-BID ITEMS		
		BRIDGE SEAT PROTECTION	LS	1

*** CONCRETE MASONRY BRIDGES INCLUDES CONCRETE FOR JOINT REPAIR



PLAN

DESIGN DATA

LIVE LOAD:

DESIGN RATING; HS-20
INVENTORY RATING; HS-24
OPERATIONAL RATING; HS-40
MAXIMUM STANDARD PERMIT VEHICLE LOAD = 250 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 OTHERS — 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.

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.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE FRONT FACE AND THE TOP OF THE NEW PARAPETS.

APPLY BRIDGE SEAT PROTECTION, AS PER SECTION 502.3.12 OF THE STANDARD SPECIFICATIONS, TO THE TOP SURFACES OF ALL ABUTMENTS AND PIERS BELOW EXPANSION DEVICES. POWER WASH AND ADEQUATLEY DRY SURFACES PRIOR TO APPLICATION. (POWER WASHING SHALL BE CONSIDERED INCIDENTAL TO "JOINT REPAIR").

DIMENSIONS SHOWN ARE BASED ON THE EXISTING ORIGINAL STRUCTURE PLANS.

ANY EXCAVATION NECESSARY TO COMPLETE THE JOINT REPAIR AT THE ABUTMENTS IS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "JOINT REPAIR".

APPLY POLYMER OVERLAY TO THE TOP OF DECK ONLY. (INCLUDING THE JOINT REPAIR AREAS WHICH ARE TO BE COMPLETED PRIOR TO POLYMER APPLICATION).

STEEL COVER PLATES CAPABLE OF SUPPORTING TRAFFIC SHALL BE PLACED OVER JOINT REPAIR WORK WHEN CONTRACTOR IS NOT ACTIVELY WORKING ON THE JOINT REPAIR. PLATES ARE ONLY REQUIRED WITHIN 18'-0" LATERALLY OF THE CLOSEST LIVE LANE OF TRAFFIC AND SHALL BE CONSIDERED INCIDENTAL TO THE "JOINT REPAIR" BID ITEM.

LIST OF DRAWINGS

1. POLYMER OVERLAY
2. PIER CRASH WALL DETAILS
3. JOINT REPAIR
4. EXPANSION DEVICE
5. COVER PLATE DETAILS 1
6. COVER PLATE DETAILS 2
7. REINFORCEMENT DETAILS

STRUCTURE DESIGN CONTACTS:
ANDREW SMITH (608) 266-0989
AARON BONK (608) 261-0261

NO.	DATE	REVISION	BY

Plans Prepared By **WISDOT**
BUREAU OF STRUCTURES

ACCEPTED William C. Dreher 4/29/14
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-11-74

STH 73 OVER USH 151

COUNTY COLUMBIA	~~TOWN~~/CITY/~~VILLAGE~~ COLUMBUS
DESIGN SPEC. REHABILITATION	N/A
DESIGNED BY MWL	DESIGN CK'D. ADS
DRAWN BY DDS	PLANS CK'D. ADS

POLYMER OVERLAY

SHEET 1 OF 7

297

SCALE = 20

I.D. 3060-02-00

DATE: FEB. 2014

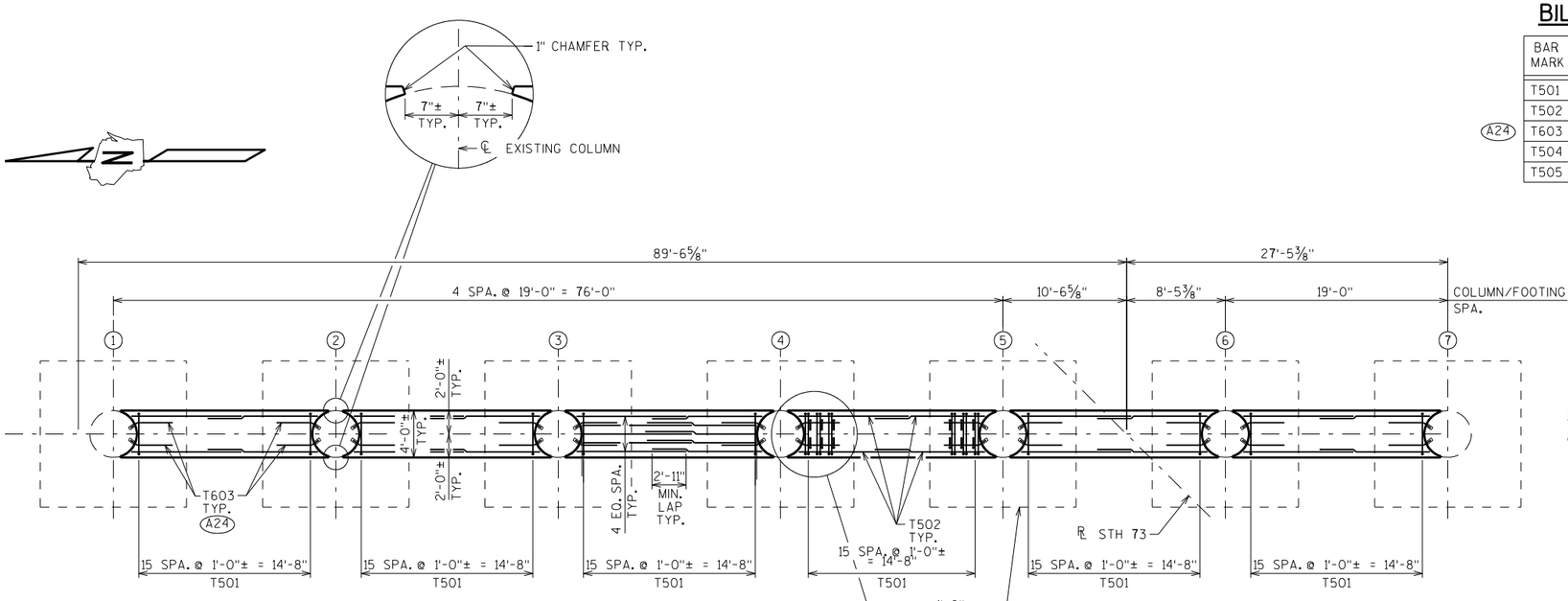
STATE PROJECT NUMBER
3060-02-70

(A24) MASONRY ANCHORS TYPE L NO. 6 BARS. EMBED 8" INTO EXISTING CONCRETE.

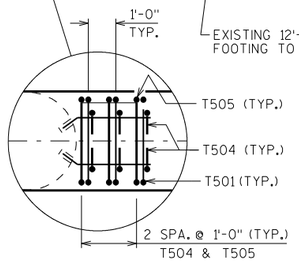
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

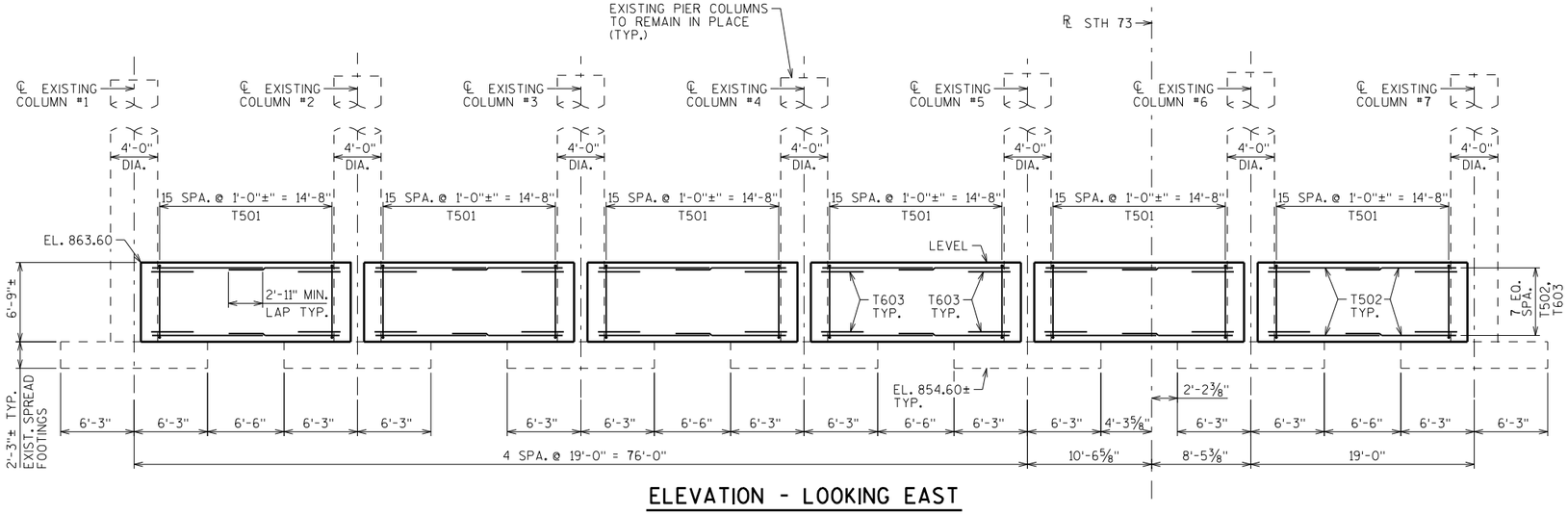
	BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
	T501	X	96	20'-6"	X		CRASH WALL - STIRRUPS
	T502	X	264	9'-8"			CRASH WALL - HORIZ.
(A24)	T603	X	192	4'-2"	X		CRASH WALL - HORIZ. - INTO EXISTING COLUMN
	T504	X	72	8'-1"	X		CRASH WALL - VERT. - TIE BARS
	T505	X	72	7'-4"	X		CRASH WALL - VERT. - TIE BARS



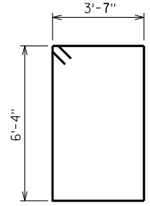
PLAN



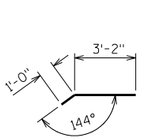
NOTE:
THE EXISTING PIER HAS NO PIER CAP. EXISTING PIER COLUMNS CURRENTLY STAND INDEPENDENTLY ON INDIVIDUAL SPREAD FOOTINGS WITH A BEARING ASSEMBLY SITTING ATOP EACH COLUMN.



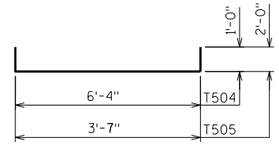
ELEVATION - LOOKING EAST



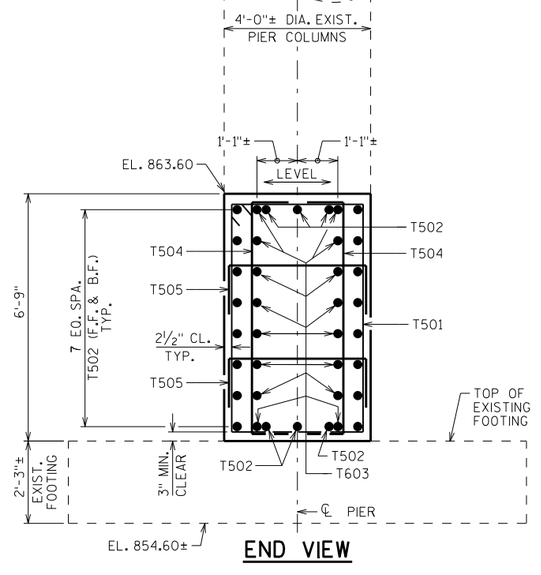
T501



T603



T504, T505



END VIEW

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-11-74

DRAWN BY: DDS | PLANS CK'D.: ADS

PIER CRASH WALL DETAILS

SHEET 2

298

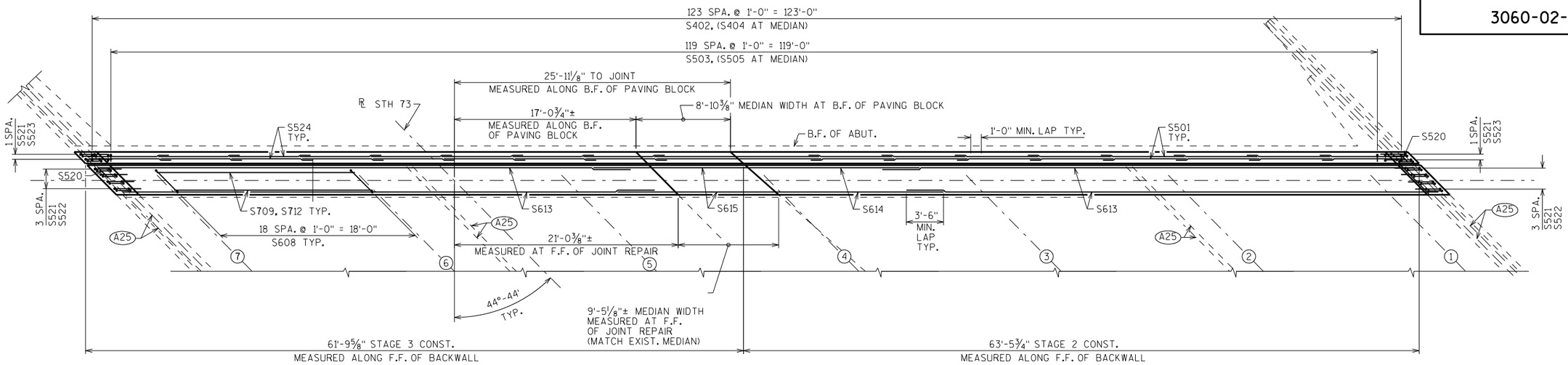
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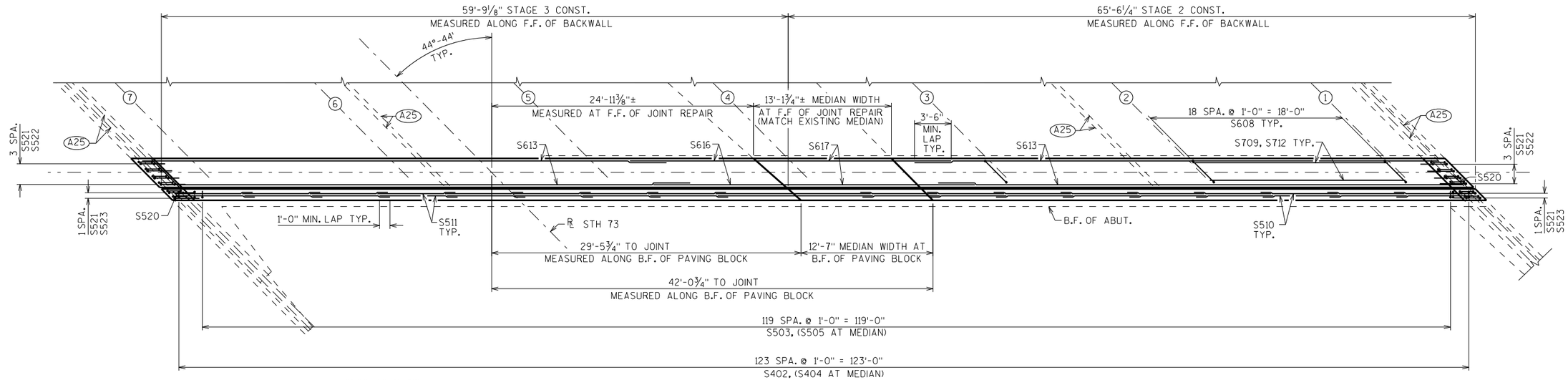
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STATE PROJECT NUMBER

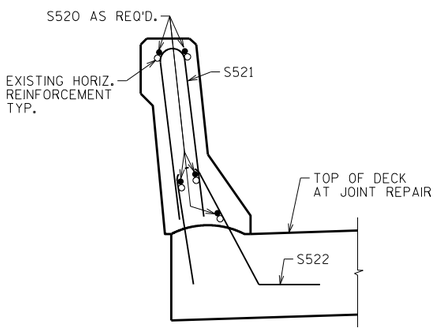
3060-02-70



WEST ABUTMENT - PLAN VIEW

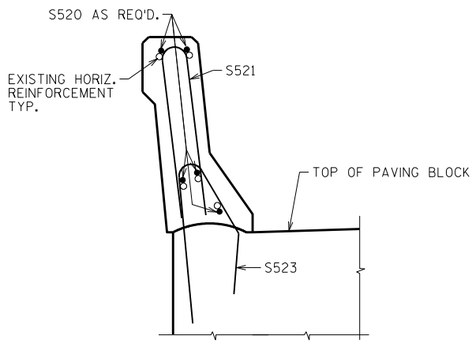


EAST ABUTMENT - PLAN VIEW



PARAPET DETAILS ON BRIDGE

SALVAGE EXISTING HORIZONTAL REINF. AND EXTEND FULL LENGTH INTO NEW WORK. TRIM AS REQUIRED.



PARAPET DETAILS AT ABUT.

SALVAGE EXISTING HORIZONTAL REINF. AND EXTEND FULL LENGTH INTO NEW WORK. TRIM AS REQUIRED.

NOTE:

STEEL COVER PLATES CAPABLE OF SUPPORTING TRAFFIC SHALL BE PLACED OVER JOINT REPAIR WORK WHEN CONTRACTOR IS NOT ACTIVELY WORKING ON THE JOINT REPAIR. PLATES ARE ONLY REQUIRED WITHIN 18'-0" LATERALLY OF THE CLOSEST LIVE LANE OF TRAFFIC AND SHALL BE CONSIDERED INCIDENTAL TO THE JOINT REPAIR BID ITEM.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-11-74

DRAWN BY DDS | PLANS CK'D. ADS

JOINT REPAIR

SHEET 3

299

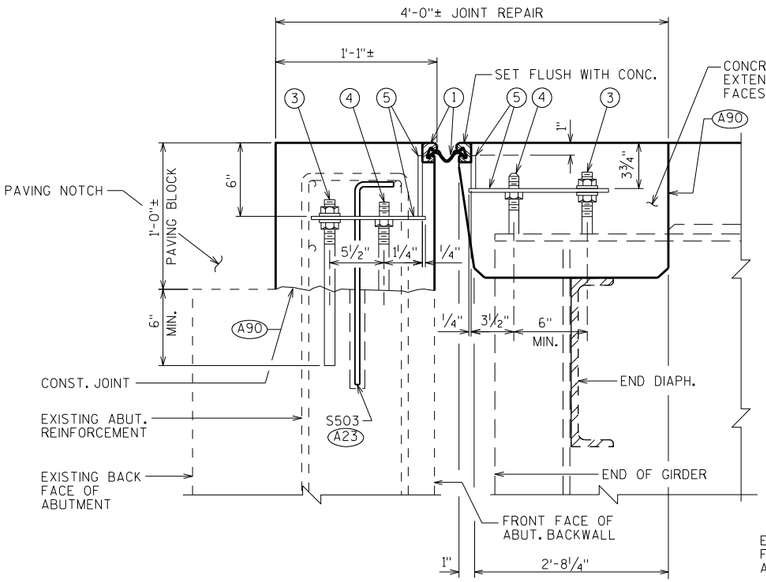
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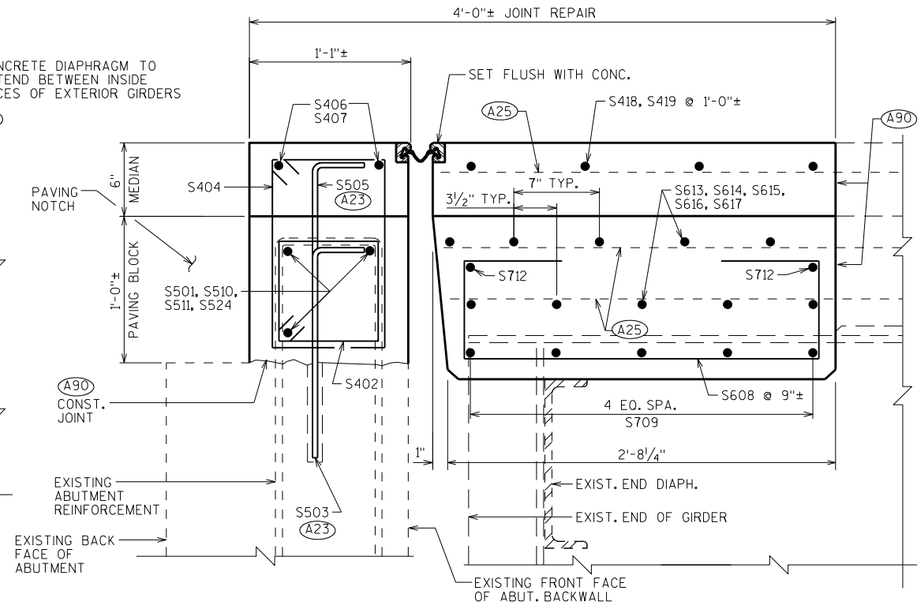
STATE PROJECT NUMBER

3060-02-70



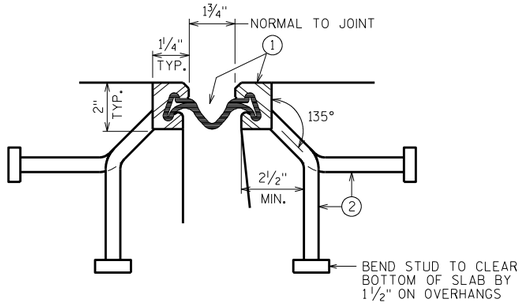
SECTION THRU JOINT AT ABUTMENT

NORMAL TO ℄ SUBSTRUCTURE



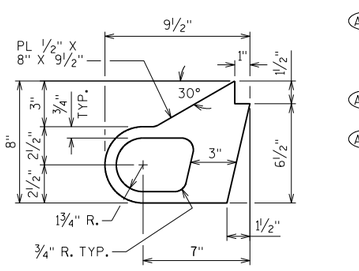
SECTION THRU JOINT AT ABUTMENT/MEDIAN

NORMAL TO ℄ SUBSTRUCTURE



SECTION THRU JOINT

EXTERIOR GIRDER TO EDGE OF DECK AND AT PARAPETS, MEDIANS AND SIDEWALKS



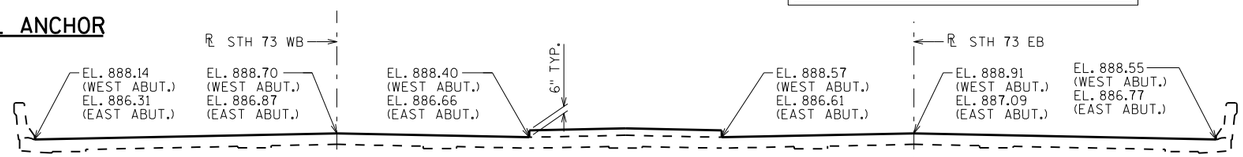
ALTERNATE STRIP SEAL ANCHOR

(A23) MASONRY ANCHORS TYPE L NO. 5 BARS. EMBED 1'-6" INTO EXISTING CONCRETE. SPACED AT 1'-0" BETWEEN EXISTING THE VERT. REINFORCENT. TURN 10" LEG AS NECESSARY TO FIT.

(A25) SALVAGE EXIST. REINF. & EXTEND FULL LENGTH INTO NEW WORK.

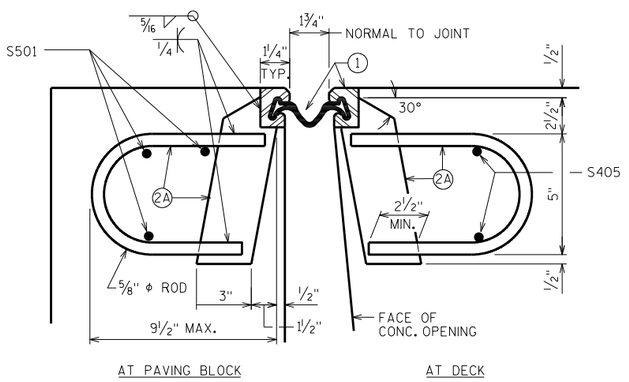
(A90) ROUGHEN EXISTING CONCRETE ¼" MIN. EVERYWHERE NEW CONCRETE COMES INTO CONTACT WITH EXISTING CONCRETE.

NOTE:
MANUFACTURER SHALL COORDINATE WITH THE CONTRACTOR AND THE FIELD ENGINEER TO FIELD VERIFY ELEVATIONS PRIOR TO FABRICATION OF THE EXTRUSIONS.



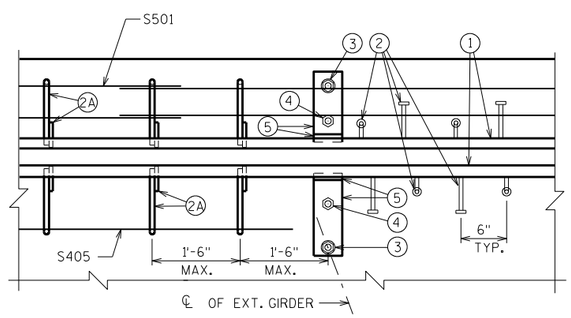
SECTION THRU ROADWAY - LOOKING EAST

ELEVATIONS TAKEN AT ALONG F.F. OF BACKWALL



SECTION THRU JOINT

ROADWAY TRAFFIC AREA BETWEEN EXTERIOR GIRDERS.



PART PLAN

LEGEND

(1) NEOPRENE STRIP SEAL (4 - INCH) AND STEEL EXTRUSIONS.

(2) STUDS ⅝"ϕ X 6⅜" LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS AND BEND AS SHOWN AFTER WELDING.

(2A) ½" THICK ANCHOR PLATE WITH ⅝"ϕ ROD (OR ALTERNATE STRIP SEAL ANCHOR). WELD ROD TO ANCHOR PLATE, WELD ANCHOR PLATE TO NO. 1 AT 1'-6" CENTERS BETWEEN GIRDERS.

(3) ¾" ϕ THREADED ROD WITH 2 NUTS AND PLATE WASHERS. WELD THREADED ROD TO TOP FLANGE OR ATTACH BY BOLTING THRU FLANGE. ON ABUTMENT SIDE GROUT THREADED ROD INTO FIELD DRILLED HOLES IN ABUTMENT BACKWALL AS SHOWN.

(4) ¾"ϕ THREADED ROD WITH NUT. TACK WELD NUT TO NO. 5.

(5) FABRICATE SUPPORT FROM 3" X ½" BAR AS SHOWN OR EQUIVALENT, ONE PER GIRDER PER SIDE. SHOP OR FIELD WELD TO NO. 1. IF FIELD WELDED, COVER WELDED AREAS WITH EPOXY-COATING MATERIAL. PROVIDE 1½" ϕ HOLE FOR NO. 3 AND 1" ϕ HOLE FOR NO. 4.

NOTES

ONE FIELD SPLICE PERMITTED IN STEEL EXTRUSIONS, UNLESS MORE ARE REQUIRED FOR STAGED CONSTRUCTION, HANDLING OR GALVANIZING REQUIREMENTS. IF USED, DETAILS SHALL BE SUBMITTED FOR APPROVAL. NO SPLICING PERMITTED IN NEOPRENE STRIP SEAL.

AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST AND SWEEP.

FABRICATOR SHALL PROVIDE MEANS OF KEEPING GALVANIZED EXTRUSIONS CLEAN AND SMOOTH DURING SHIPMENT AND PRIOR TO APPLYING LUBRICANT ADHESIVE FOR NEOPRENE GLAND INSTALLATION.

SANDBLAST PLATES, SUPPORTS AND EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING, THE PLATES, SUPPORTS AND EXTRUSIONS SHALL BE HOT DIPPED GALVANIZED.

ANCHOR SYSTEM NO. 8 AND NO. 9 SHALL CONFORM TO ASTM A307 & SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C AND D.

STRIP SEAL EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE WILL BE PAID FOR AT THE LUMP SUM PRICE BID FOR "EXPANSION DEVICE B-11-74".

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-11-74

DRAWN BY DDS | PLANS CK'D. ADS

EXPANSION DEVICE

SHEET 4

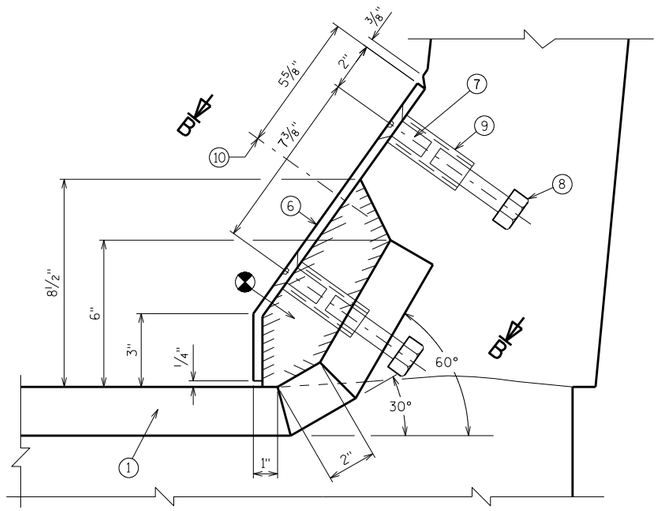
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JTSS_SLPFAC
1_13

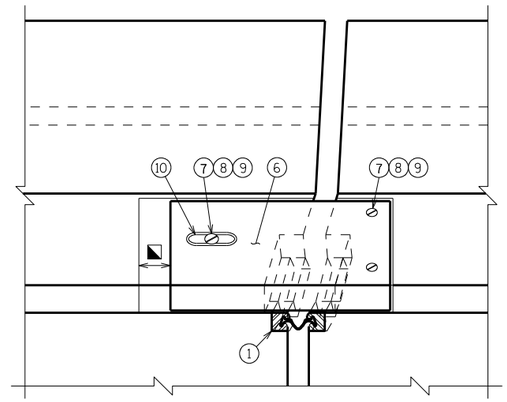
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STATE PROJECT NUMBER

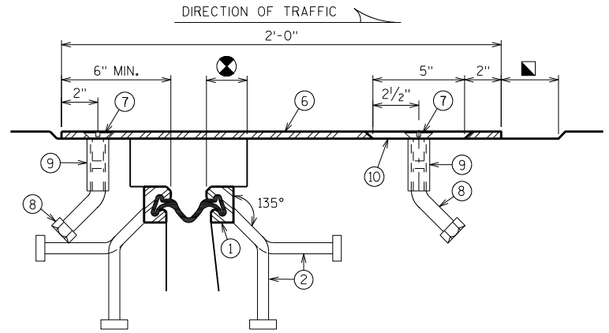
3060-02-70



SECTION A-A



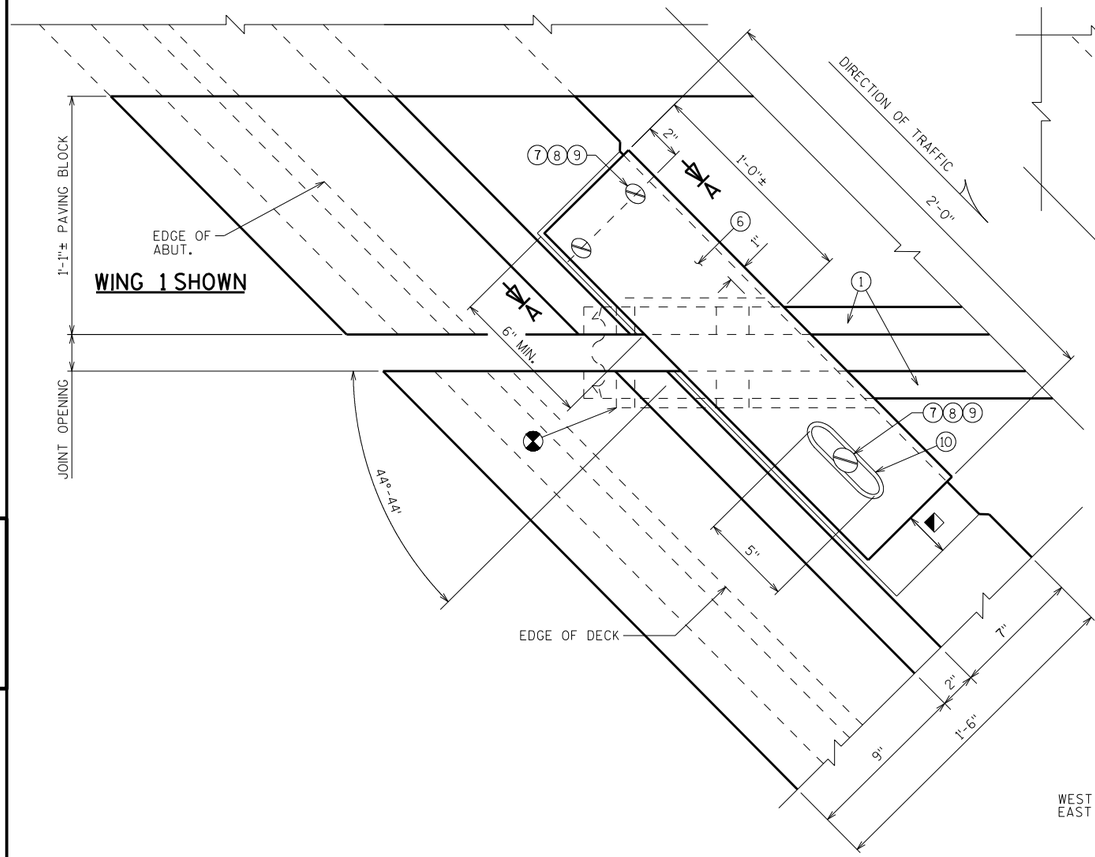
VIEW OF PARAPET PLATE FROM ROADWAY

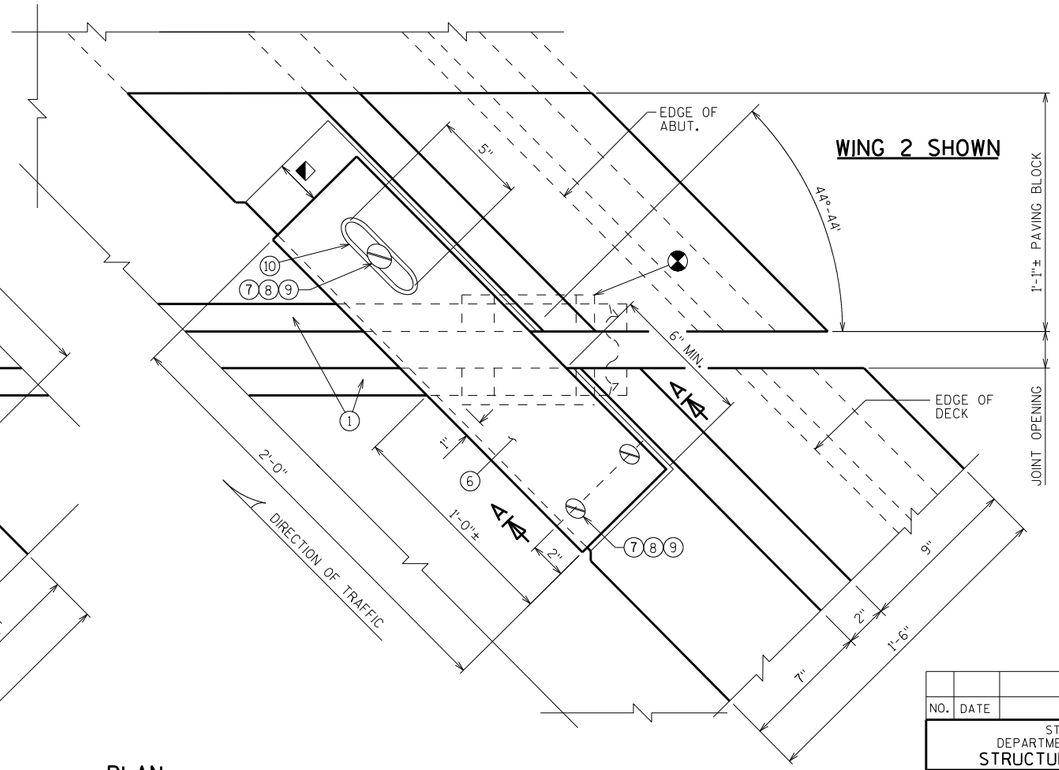


SECTION B-B

⊗ BLOCK OUT CONCRETE 2" EACH SIDE OF JOINT OPENING.

◪ JOINT OPENING DIMENSION ALONG SKEW PLUS 1/2".





PLAN

WEST ABUTMENT SHOWN
EAST ABUTMENT SIMILAR

FOR LEGEND SEE COVER PLATE DETAILS 2

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-11-74

DRAWN BY DDS | PLANS CK'D. ADS

COVER PLATE DETAILS 1

SHEET 5

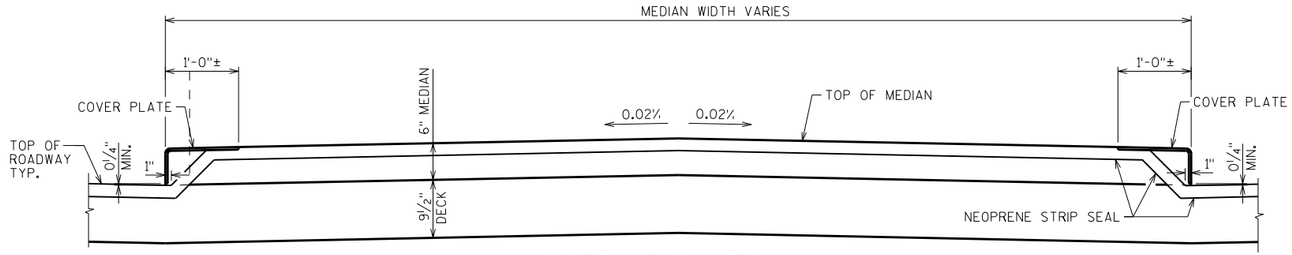
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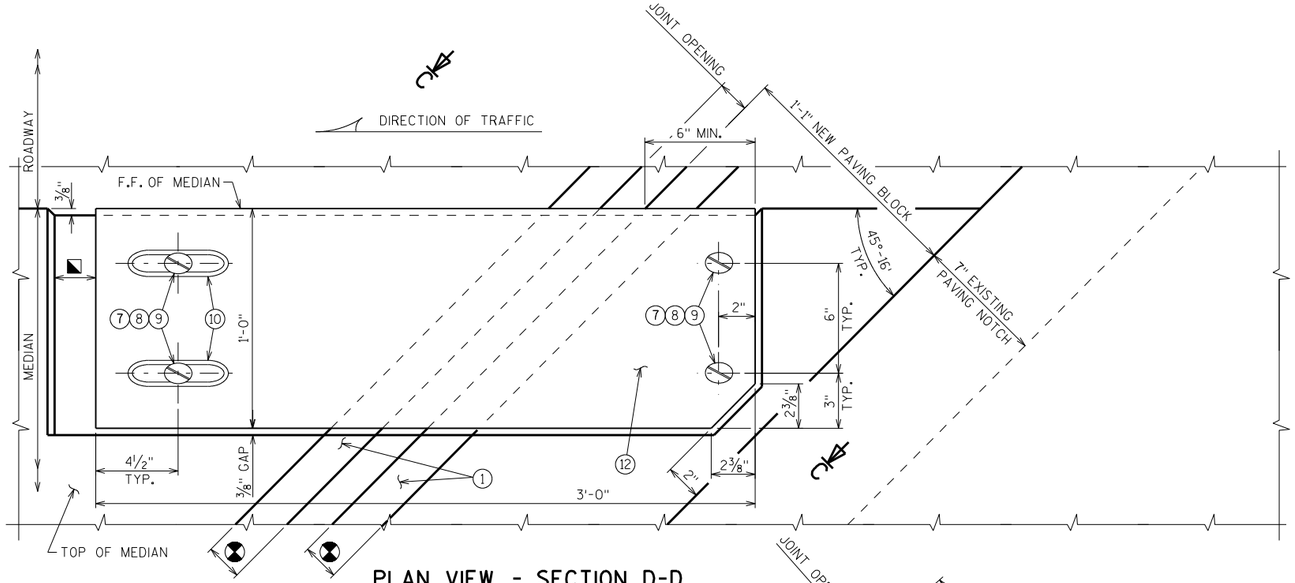
JTSS_SLPFAC
1-13

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8

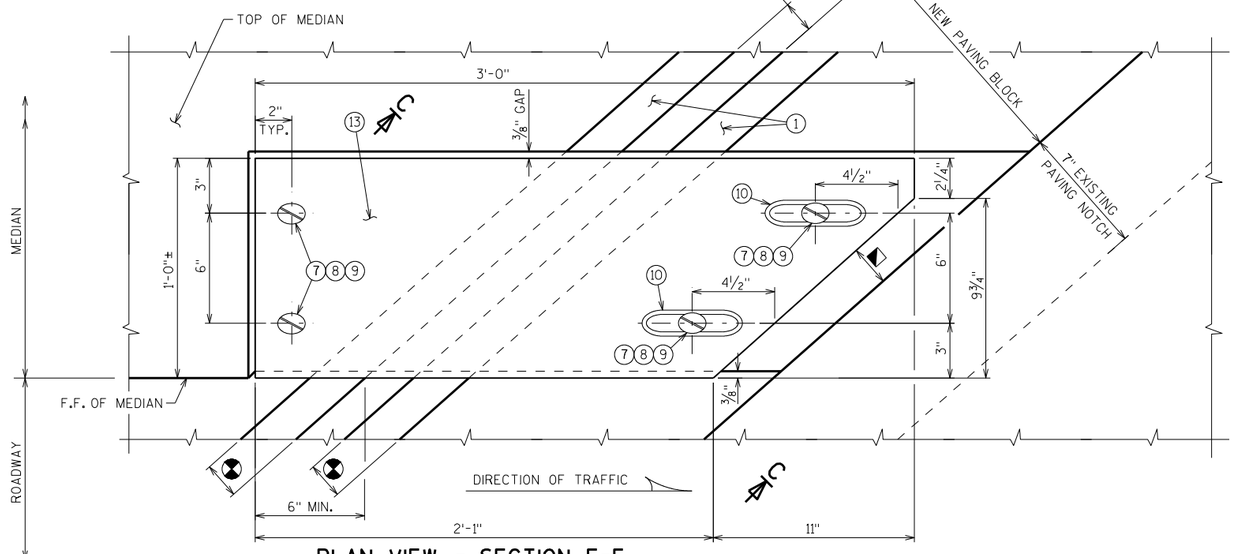


SECTION THRU MEDIAN



PLAN VIEW - SECTION D-D

NORTHEAST & SOUTHWEST MEDIAN COVER PLATES SHOWN

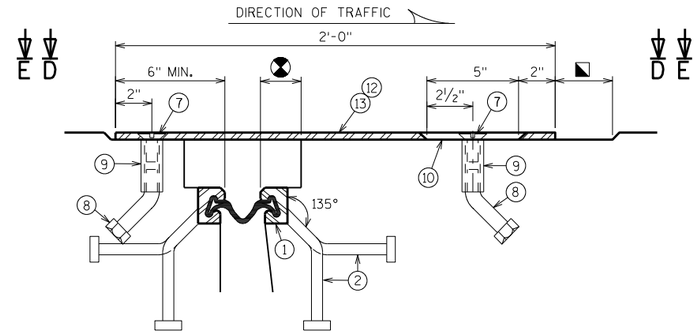


PLAN VIEW - SECTION E-E

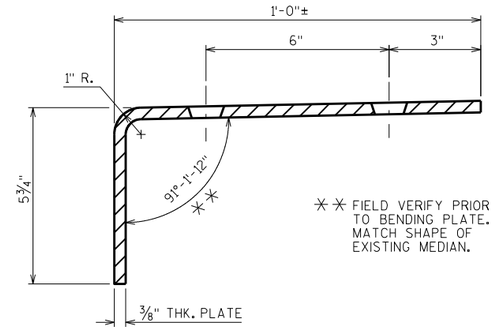
NORTHWEST & SOUTHEAST MEDIAN COVER PLATES SHOWN

BLOCK OUT CONCRETE 2" EACH SIDE OF JOINT OPENING.

JOINT OPENING DIMENSION ALONG SKEW PLUS 1/2".



SECTION C-C



✳✳ FIELD VERIFY PRIOR TO BENDING PLATE. MATCH SHAPE OF EXISTING MEDIAN.

SECTION THRU COVER PLATE

⑫⑬

LEGEND

① NEOPRENE STRIP SEAL (4" INCH) AND STEEL EXTRUSIONS.

② STUDS 5/8"Φ X 6 3/8" LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS AND BEND AS SHOWN AFTER WELDING.

②A 1/2" THICK ANCHOR PLATE WITH 5/8"Φ ROD (OR ALTERNATE STRIP SEAL ANCHOR). WELD ROD TO ANCHOR PLATE, WELD ANCHOR PLATE TO NO. 1 AT 1'-6" CENTERS BETWEEN GIRDERS.

③ 3/4" Φ THREADED ROD WITH 2 NUTS AND PLATE WASHERS. WELD THREADED ROD TO TOP FLANGE OR ATTACH BY BOLTING THRU FLANGE. ON ABUTMENT SIDE GROUT THREADED ROD INTO FIELD DRILLED HOLES IN ABUTMENT BACKWALL AS SHOWN.

④ 3/4"Φ THREADED ROD WITH NUT. TACK WELD NUT TO NO. 5.

⑤ FABRICATE SUPPORT FROM 3" X 1/2" BAR AS SHOWN OR EQUIVALENT, ONE PER GIRDER PER SIDE. SHOP OR FIELD WELD TO NO. 1. IF FIELD WELDED, COVER WELDED AREAS WITH EPOXY-COATING MATERIAL. PROVIDE 1 1/2" Φ HOLE FOR NO. 3 AND 1" Φ HOLE FOR NO. 4.

⑥ GALVANIZED PLATE 3/8" X 1'-2" X 2'-0" LONG WITH HOLES FOR NO. 7. BEND AS SHOWN.

⑦ 3/4"Φ X 1 1/2" STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. PLACE IN COUNTERSUNK HOLE. RECESS 1/16" BELOW PLATE SURFACE.

⑧ 3/4"Φ X 4" GALVANIZED HEX HEAD BOLT. BEND 45°.

⑨ 3/4"Φ X 2 1/4" GALVANIZED THREADED COUPLING.

⑩ 1" X 5" SLOTTED COUNTERSUNK HOLE FOR NO. 7. PLACE SLOT PARALLEL TO DIRECTION OF MOVEMENT.

⑫ GALVANIZED PLATE 3/8" THK. X 1'-6" X 3'-0" LONG WITH HOLES FOR NO. 7 BEND AS SHOWN.

⑬ GALVANIZED PLATE 3/8" THK. X 1'-6" X 3'-0" LONG WITH HOLES FOR NO. 7 BEND AS SHOWN.

STATE PROJECT NUMBER

3060-02-70

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-11-74

DRAWN BY DDS | PLANS CK'D. ADS

COVER PLATE DETAILS 2

SHEET 6

302

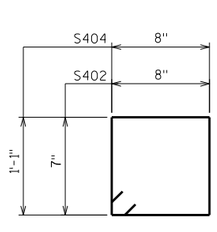
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STATE PROJECT NUMBER

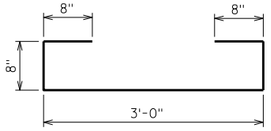
3060-02-70



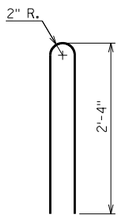
S402, S404



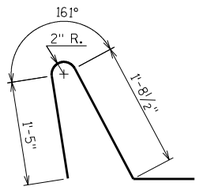
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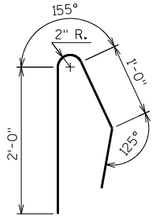
S608



S521



S522



S523

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
◆◆	S501	X	27	7'-11"			PAVING BLOCK - HORIZ. (STAGE 2 W. ABUT.)
	S402	X	228	3'-0"	X		PAVING BLOCK - STIRRUP
(A23)	S503	X	220	3'-3"	X		PAVING BLOCK - VERT.
	S404	X	20	4'-0"	X		MEDIAN - STIRRUP
(A23)	S405	X	20	4'-3"			MEDIAN - VERT.
	S406	X	2	8'-5"			MEDIAN - HORIZ. - TRANSVERSE (WEST ABUT.)
	S407	X	2	12'-2"			MEDIAN - HORIZ. - TRANSVERSE (EAST ABUT.)
	S608	X	228	5'-0"	X		ABUT. DIAPH. - VERT. - BETWEEN GIRDERS
	S709	X	60	18'-6"			ABUT. DIAPH. - HORIZ. - BETWEEN GIRDERS
◆◆	S510	X	30	7'-4"			PAVING BLOCK - HORIZ. (STAGE 2 E. ABUT.)
	S511	X	27	7'-5"			PAVING BLOCK - HORIZ. (STAGE 3 E. ABUT.)
	S712	X	24	18'-6"			ABUT. DIAPH. - HORIZ. - BETWEEN GIRDERS
	S613	X	40	50'-0"			DECK - HORIZ. - TRANSVERSE
◆◆	S614	X	10	16'-2"			ABUT. DIAPH. - HORIZ. - (STAGE 2 W. ABUT.)
	S615	X	10	14'-11"			ABUT. DIAPH. - HORIZ. - (STAGE 3 W. ABUT.)
◆◆	S616	X	10	12'-5"			PAVING BLOCK - HORIZ. (STAGE 3 E. ABUT.)
	S617	X	10	18'-7"			PAVING BLOCK - HORIZ. (STAGE 2 E. ABUT.)
	S418	X	4	8'-10"		⚠	MEDIAN - HORIZ. - TRANSVERSE (WEST ABUT.)
	S419	X	4	12'-6"		⚠	MEDIAN - HORIZ. - TRANSVERSE (EAST ABUT.)
	S520	X	12	1'-0"			PARAPET - HORIZ.
	S521	X	24	4'-10"	X		PARAPET - VERT.
	S522	X	16	4'-3"	X		PARAPET - VERT.
	S523	X	8	4'-7"	X		PARAPET - VERT.
	S524	X	27	7'-8"			PAVING BLOCK - HORIZ. (STAGE 3 W. ABUT.)

⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

◆◆ BAR COUPLER REQ'D.

BAR SERIES TABLE

MARK	NO. REQD.	LENGTH
S418	1 SERIES OF 4	8'-7" TO 9'-0"
S419	1 SERIES OF 4	12'-4" TO 12'-8"

BUNDLE AND TAG EACH SERIES SEPARATELY.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-11-74

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REINFORCEMENT DETAILS

SHEET 7

303

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SCALE = 1

MAINLINE

X_SECTION STATION	DISTANCE (FT)	AREA (SF)	AVERAGE END AREA VOLUME (CY)
677+00		91.15	-
677+50	50.0	92.78	170.31
678+00	50.0	107.02	185.00
678+50	50.0	107.25	198.40
679+00	50.0	110.31	201.44
679+50	50.0	92.50	187.79
679+70	20.0	88.73	67.12
680+00	30.0	98.80	104.18
680+50	50.0	103.05	186.90
681+00	50.0	112.33	199.43
681+50	50.0	114.63	210.15
682+00	50.0	100.49	199.19
682+50	50.0	109.50	194.44
683+00	50.0	119.30	211.85
683+50	50.0	124.07	225.34
684+00	50.0	137.10	241.82
684+50	50.0	154.78	270.26
685+00	50.0	175.55	305.86
685+50	50.0	175.76	325.29
686+00	50.0	181.77	331.05
686+50	50.0	186.67	341.15
687+00	50.0	186.71	345.72
687+50	50.0	183.72	342.99
688+00	50.0	179.39	336.21
688+50	50.0	174.76	327.92
689+00	50.0	175.41	324.23
689+50	50.0	175.49	324.91
690+00	50.0	175.24	324.75
690+50	50.0	178.31	327.36
691+00	50.0	185.41	336.78
691+50	50.0	185.80	343.71
692+00	50.0	78.54	244.76
692+50	50.0	0.00	72.72
693+00	50.0	BRIDGE B-11-74	
693+50	50.0		
694+00	50.0		
694+50	50.0		

MAINLINE

X_SECTION STATION	DISTANCE (FT)	AREA (SF)	AVERAGE END AREA VOLUME (CY)
693+00	50.0	BRIDGE B-11-74	
693+50	50.0		
694+00	50.0		
694+50	50.0		
695+00	50.0	23.15	21.44
695+50	50.0	139.37	150.48
696+00	50.0	204.05	317.98
696+50	50.0	202.78	376.69
697+00	50.0	201.63	374.45
697+50	50.0	193.05	365.44
698+00	50.0	191.54	356.10
698+50	50.0	196.78	359.56
699+00	50.0	198.56	366.06
699+50	50.0	219.39	386.99
700+00	50.0	204.03	392.06
700+50	50.0	199.19	373.35
701+00	50.0	195.55	365.50
701+50	50.0	187.78	354.94
702+00	50.0	177.73	338.44
702+50	50.0	168.53	320.61
703+00	50.0	137.62	283.47
703+50	50.0	129.47	247.31
704+00	50.0	114.36	225.77
704+60	60.0	88.59	225.50
705+00	40.0	86.17	129.45
705+50	50.0	77.91	151.93
706+00	50.0	75.02	141.60
706+50	50.0	73.74	137.74
707+00	50.0	72.20	135.13
707+50	50.0	71.23	132.81
708+00	50.0	55.39	117.24
708+50	50.0	53.43	100.76
709+00	50.0	51.46	97.12
709+50	50.0	51.32	95.17
710+00	50.0	53.37	96.94
710+50	50.0	64.42	109.06
711+00	50.0	63.15	118.12
711+50	50.0	60.76	114.73
712+00	50.0	58.84	110.74
712+50	50.0	60.79	110.77
712+82	32.0	66.54	75.45
		Mainline Total	16,186

RAMPS

	X_SECTION STATION	DISTANCE (FT)	AREA (SF)	AVERAGE END AREA VOLUME (CY)
RAMP A	7+50		66.93	-
(Stage 3)	7+75	25.0	67.11	62.06
	8+00	25.0	71.05	63.96
	8+50	50.0	91.85	150.83
	9+00	50.0	126.24	201.94
	9+50	50.0	136.45	243.23
	9+78	28.0	205.76	177.44
			TOTAL	899.46
RAMP B	7+66		17.49	-
(Stage 3)	7+75	9.0	22.79	6.71
	8+00	25.0	23.91	21.62
	8+50	50.0	33.75	53.39
	8+75	25.0	91.40	57.94
	9+00	25.0	116.80	96.39
	9+50	50.0	203.38	296.46
	9+73	23.0	224.03	182.05
			TOTAL	714.56
RAMP C	10+70		251.31	-
(Stage 2)	11+00	30.0	224.48	264.33
	11+50	50.0	153.34	349.83
	12+00	50.0	104.38	238.63
	12+50	50.0	90.75	180.68
	13+00	50.0	79.62	157.75
	13+50	50.0	81.98	149.63
			TOTAL	1340.85
RAMP D	10+75		208.89	-
(Stage 2)	11+00	25.0	192.58	185.87
	11+50	50.0	107.16	277.54
	12+00	50.0	71.11	165.06
	12+35	35.0	67.20	89.65
			TOTAL	718.11

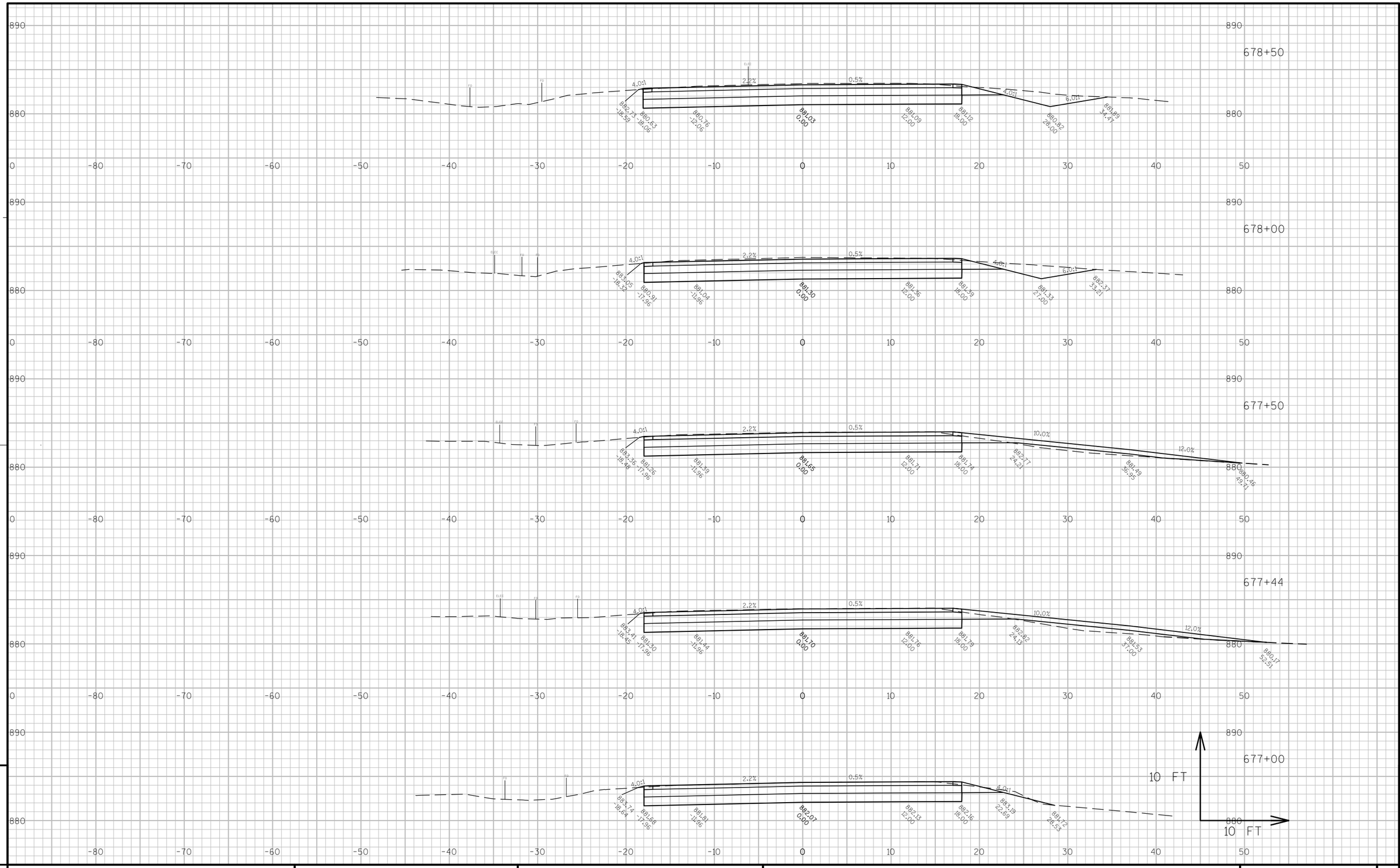
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PROJECT NO:3060-02-62/70 | HWY: STH 73 | COUNTY: COLUMBIA | EARTHWORK | SHEET: 304 | E

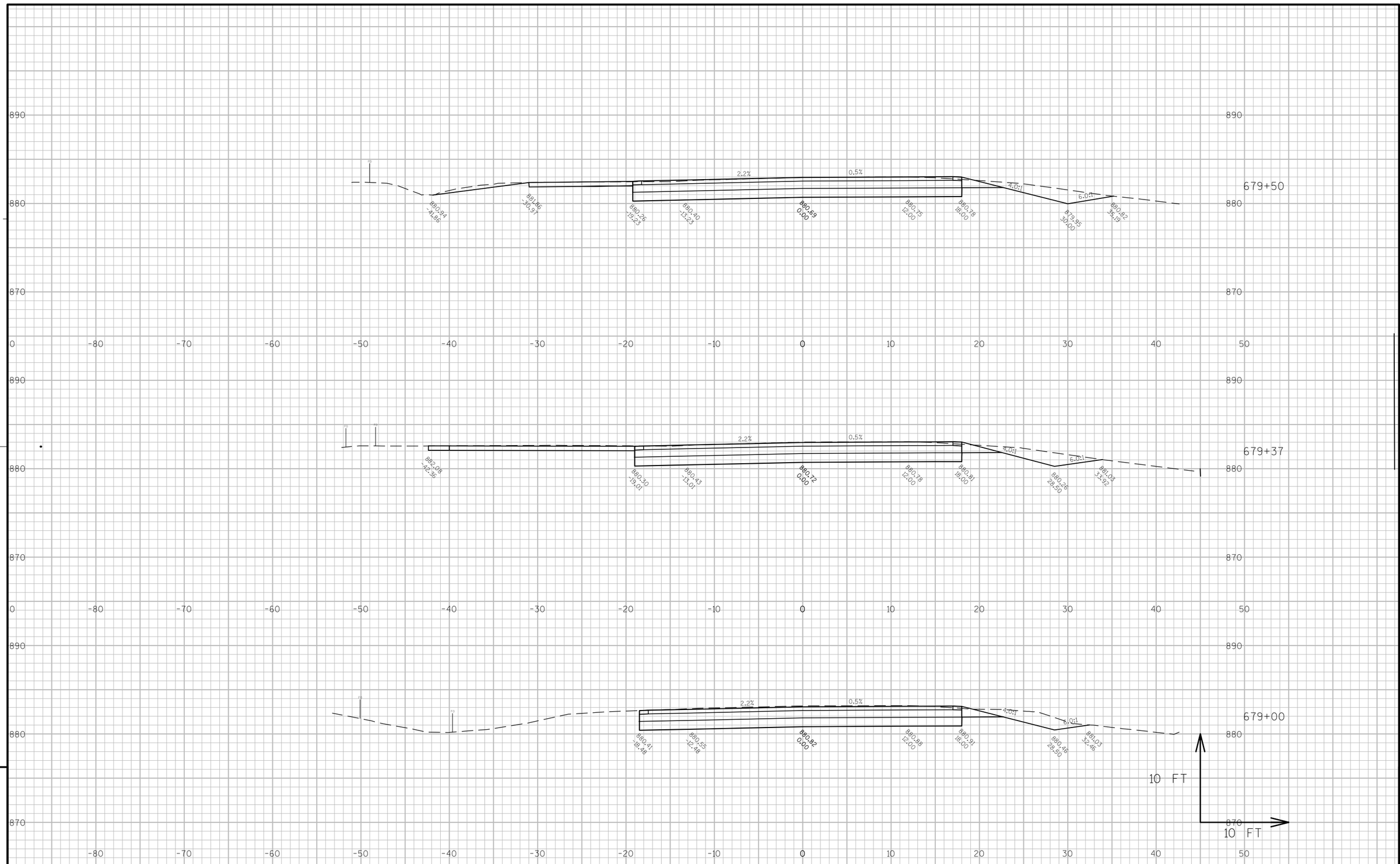
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	X_SECTION STATION	DISTANCE (FT)	AREA (SF)	AVERAGE END AREA VOLUME (CY)	X_SECTION STATION	DISTANCE (FT)	AREA (SF)	AVERAGE END AREA VOLUME (CY)
	Install				Remove			
Stage 2 Temp Lane	700+00		6.05	-	700+00		4.14	-
(Install in Stage 1)	700+50	50.0	8.85	13.80	700+50	50.0	6.94	10.26
(Remove in Stage 3)	701+00	50.0	12.93	20.17	701+00	50.0	11.16	16.76
	701+50	50.0	20.00	30.49	701+50	50.0	16.41	25.53
	702+00	50.0	26.60	43.15	702+00	50.0	22.71	36.22
	702+50	50.0	25.75	48.47	702+50	50.0	27.24	46.25
	703+00	50.0	25.31	47.28	703+00	50.0	35.87	58.44
	703+50	50.0	23.99	45.65	703+50	50.0	28.71	59.80
	704+00	50.0	23.68	44.14	704+00	50.0	31.46	55.71
	704+30	30.0	26.74	28.01	704+50	50.0	28.36	55.39
	710+25		26.24	-	710+25		30.13	-
	710+50	25.0	25.17	23.80	710+50	25.0	32.84	29.15
	711+00	50.0	23.33	44.91	711+00	50.0	30.48	58.63
	711+50	50.0	20.84	40.90	711+50	50.0	28.76	54.85
	712+00	50.0	18.53	36.45	712+00	50.0	27.92	52.48
	712+50	50.0	19.33	35.06	712+50	50.0	28.34	52.09
	713+00	50.0	13.92	30.79	713+00	50.0	27.86	52.04
	713+50	50.0	13.89	25.75	713+50	50.0	30.37	53.92
	714+00	50.0	14.31	26.11	714+00	50.0	30.78	56.62
	714+50	50.0	12.24	24.58	714+50	50.0	27.60	54.06
	715+00	50.0	10.34	20.91	715+00	50.0	26.34	49.94
	715+50	50.0	8.48	17.43	715+50	50.0	18.62	41.63
	716+00	50.0	7.10	14.43	716+00	50.0	8.56	25.17
	716+50	50.0	5.24	11.43	716+50	50.0	5.05	12.60
	716+75	25.0	4.01	4.28	716+75	25.0	3.31	3.87
			TOTAL	677.96			TOTAL	961.40
	Install				Remove			
Stage 3 Temp Lane	713+00		23.37	-	713+00		36.02	-
(Install in Stage 2)	713+50	50.0	20.67	40.78	713+50	50.0	34.42	65.22
(Remove in Stage 4)	714+00	50.0	19.70	37.38	714+00	50.0	26.79	56.68
	714+50	50.0	18.43	35.31	714+50	50.0	21.23	44.46
	715+00	50.0	16.43	32.28	715+00	50.0	16.17	34.63
	715+50	50.0	13.60	27.81	715+50	50.0	11.57	25.69
	716+00	50.0	3.15	15.51	716+00	50.0	6.65	16.87
			TOTAL	189.06			TOTAL	243.55



PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CROSS SECTIONS: STH 73 MAINLINE	SHEET

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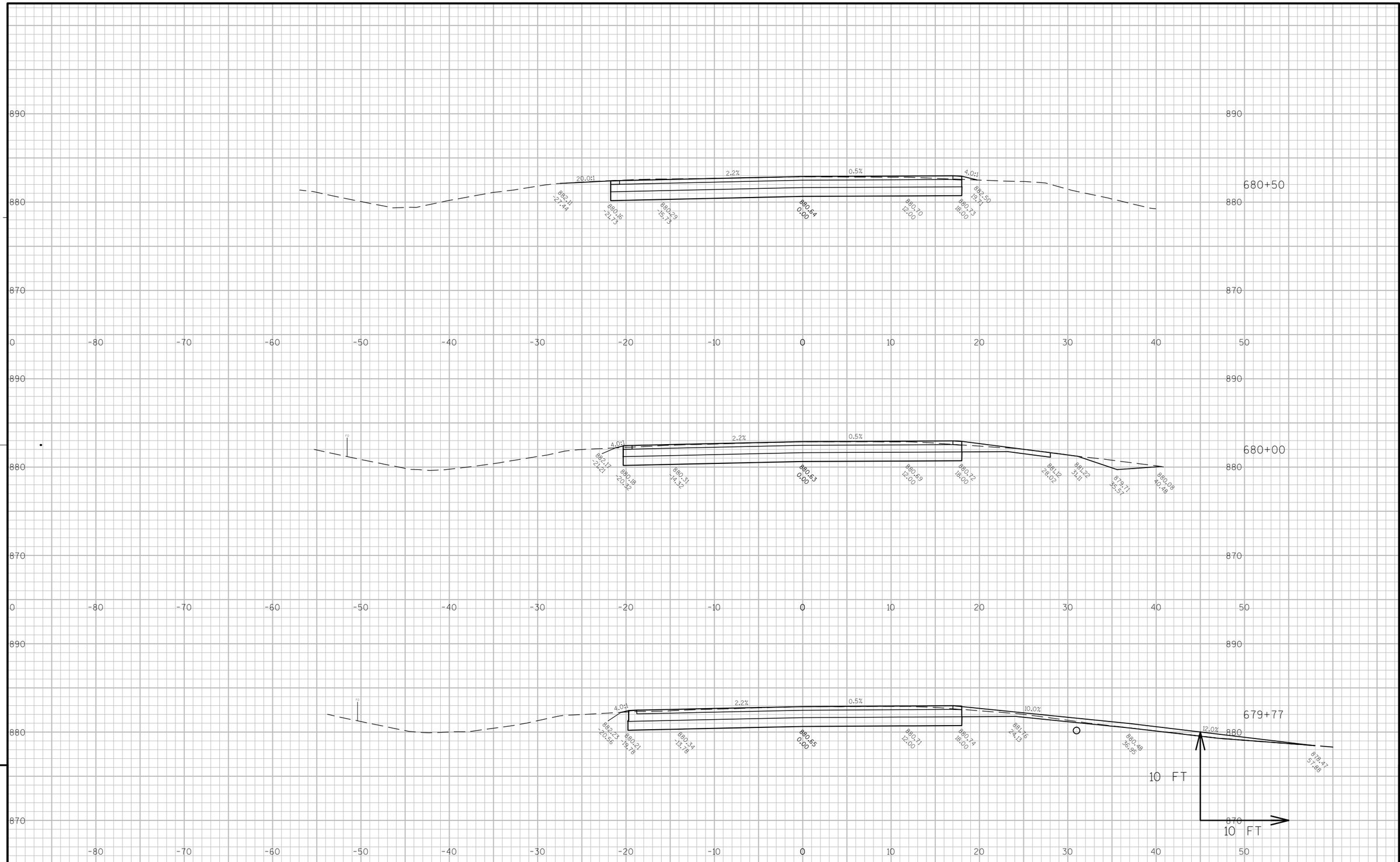


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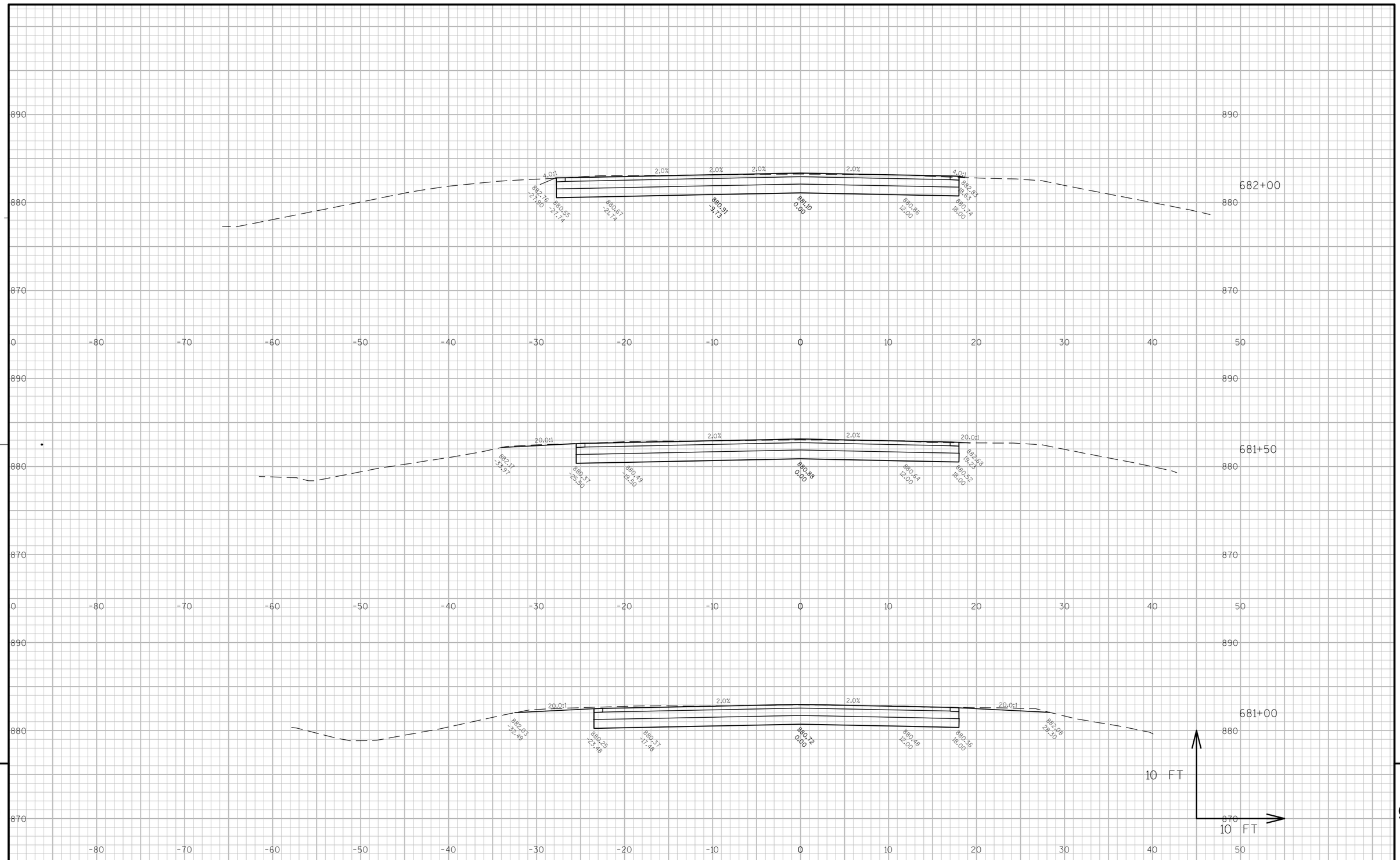
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PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CROSS SECTIONS: STH 73 MAINLINE	SHEET E

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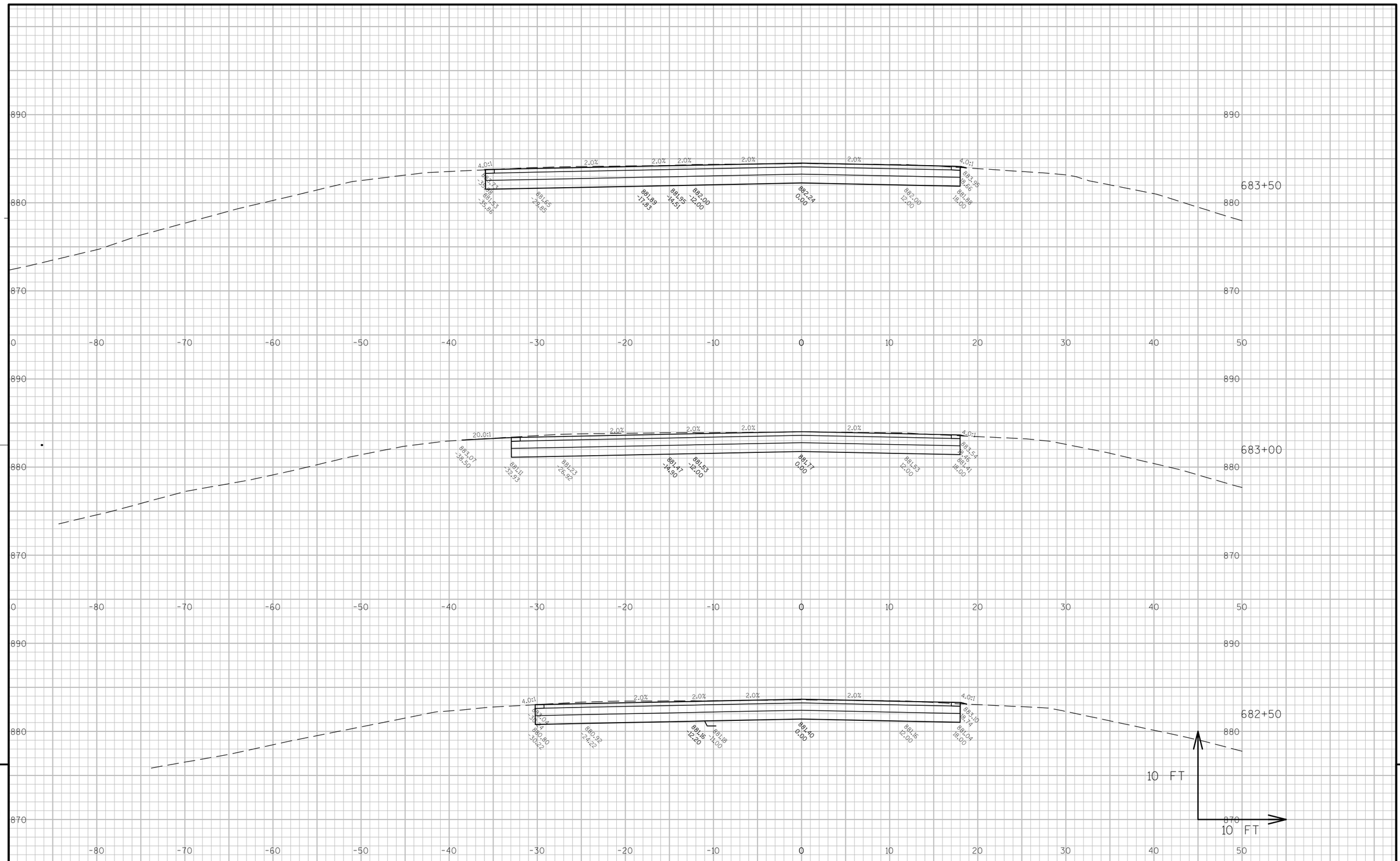


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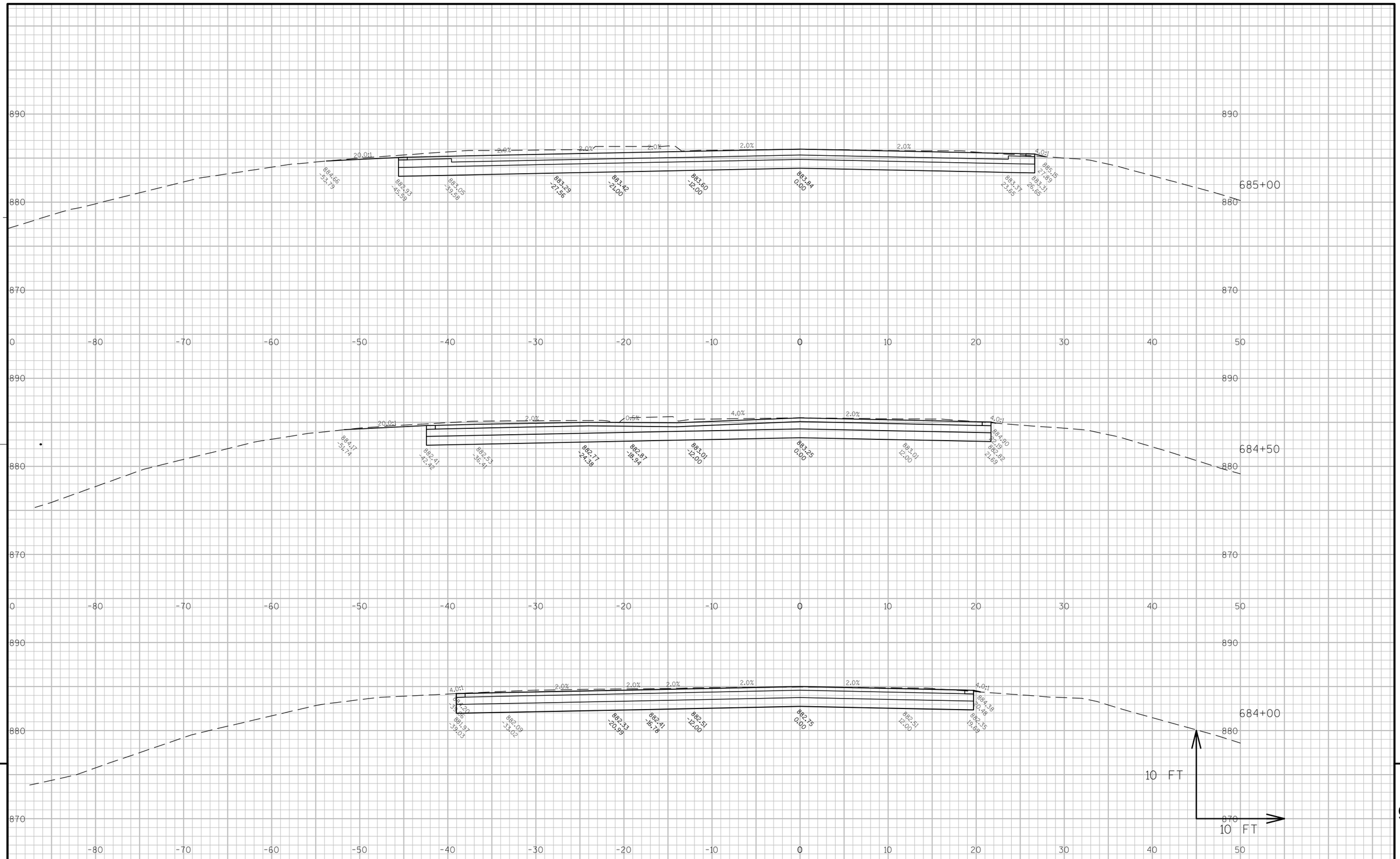
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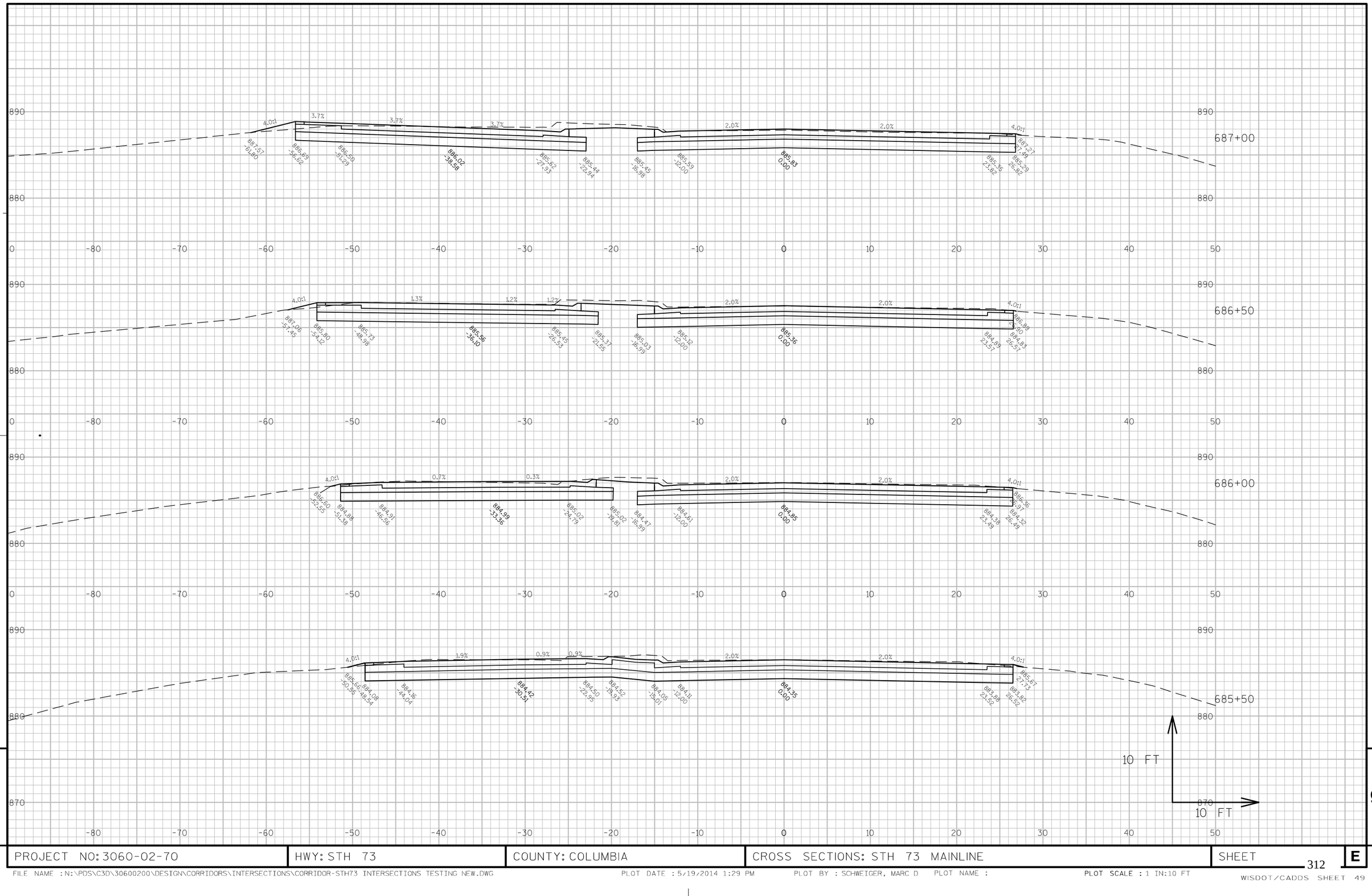
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WISDOT/CADDS SHEET 49



PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CROSS SECTIONS: STH 73 MAINLINE	SHEET 311	E

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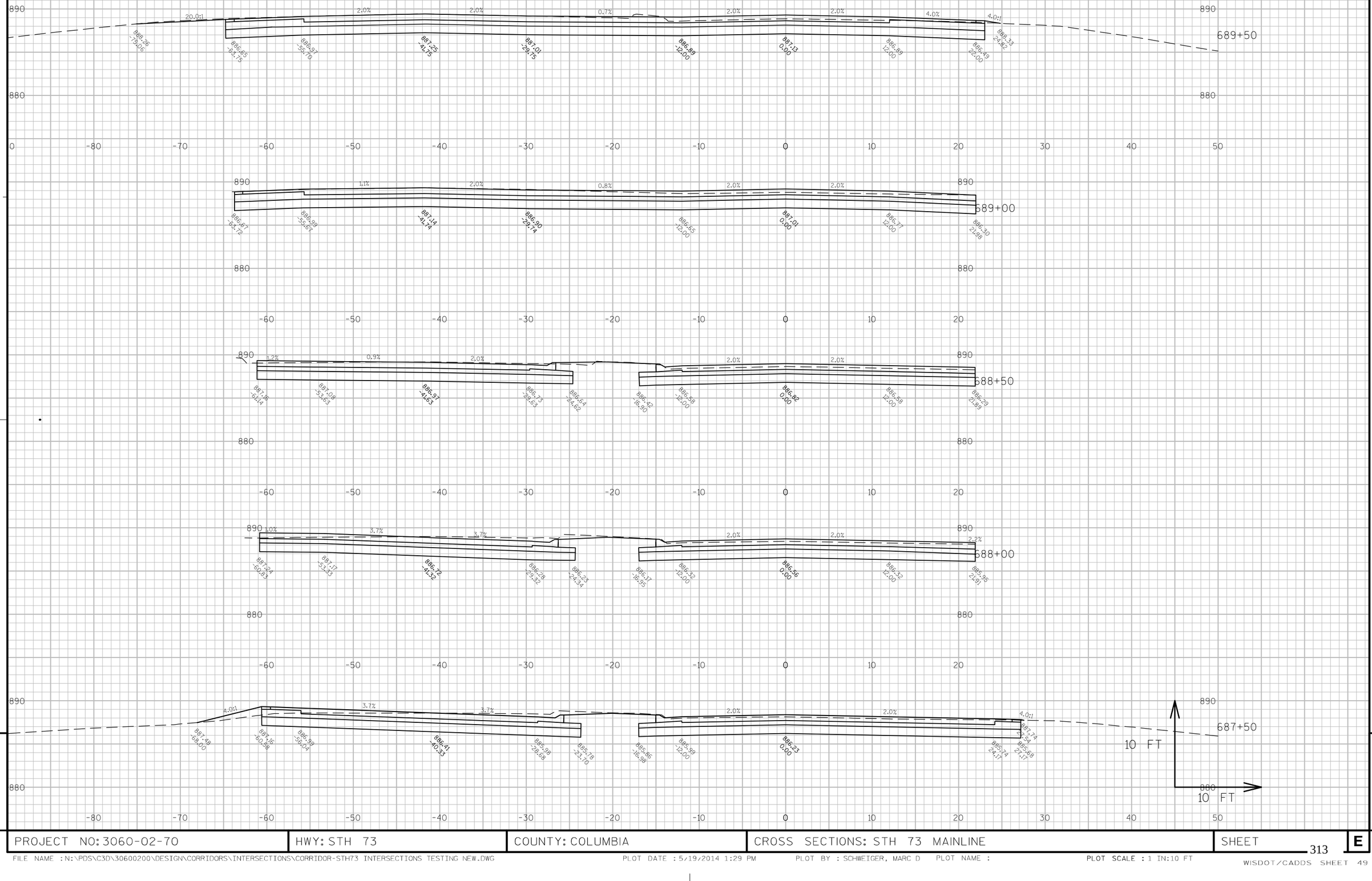


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PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CROSS SECTIONS: STH 73 MAINLINE	SHEET 312	E

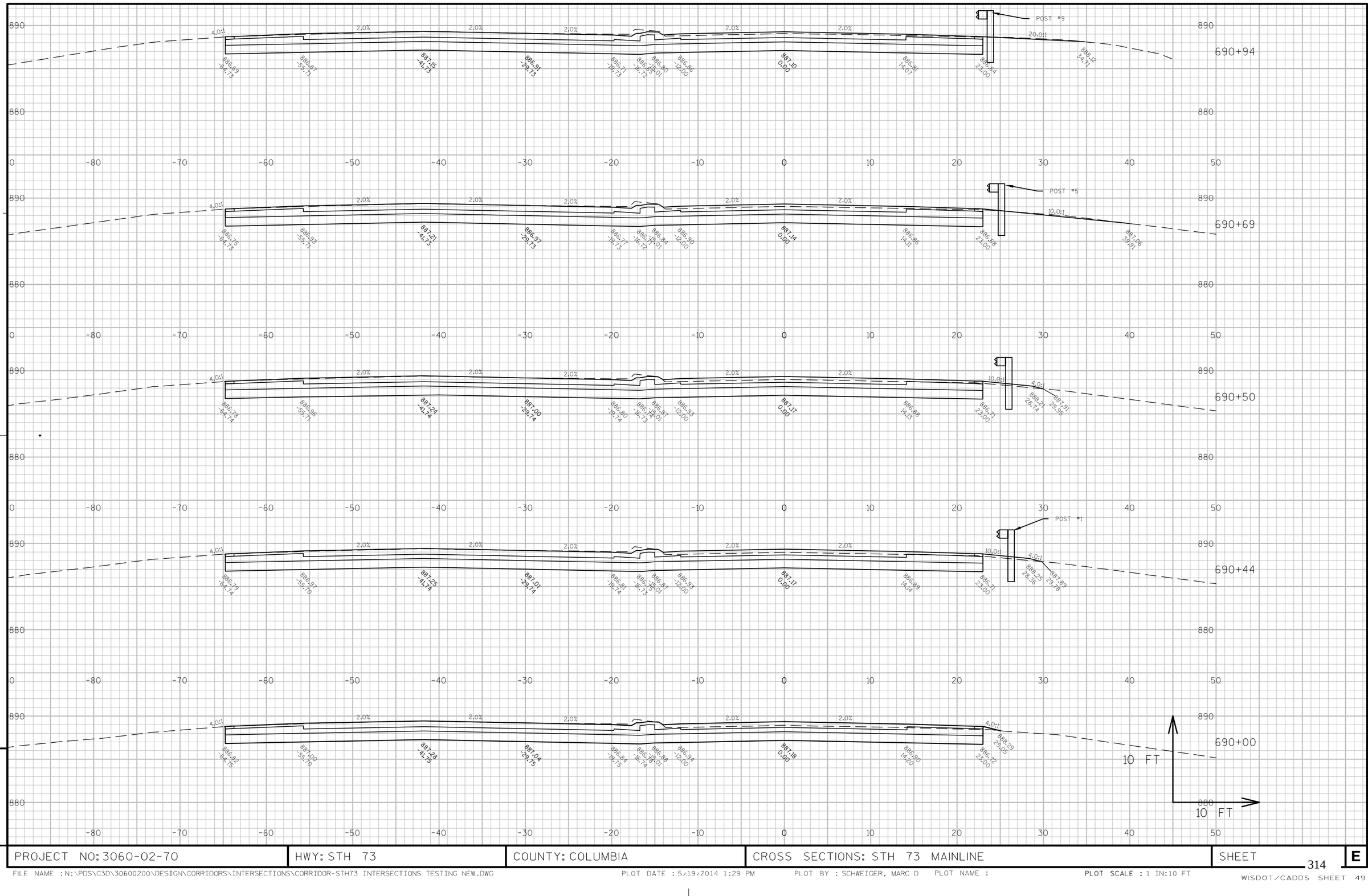
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WISDOT/CADDS SHEET 49



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PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CROSS SECTIONS: STH 73 MAINLINE	SHEET 313	E



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PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CROSS SECTIONS: STH 73 MAINLINE	SHEET 314	E

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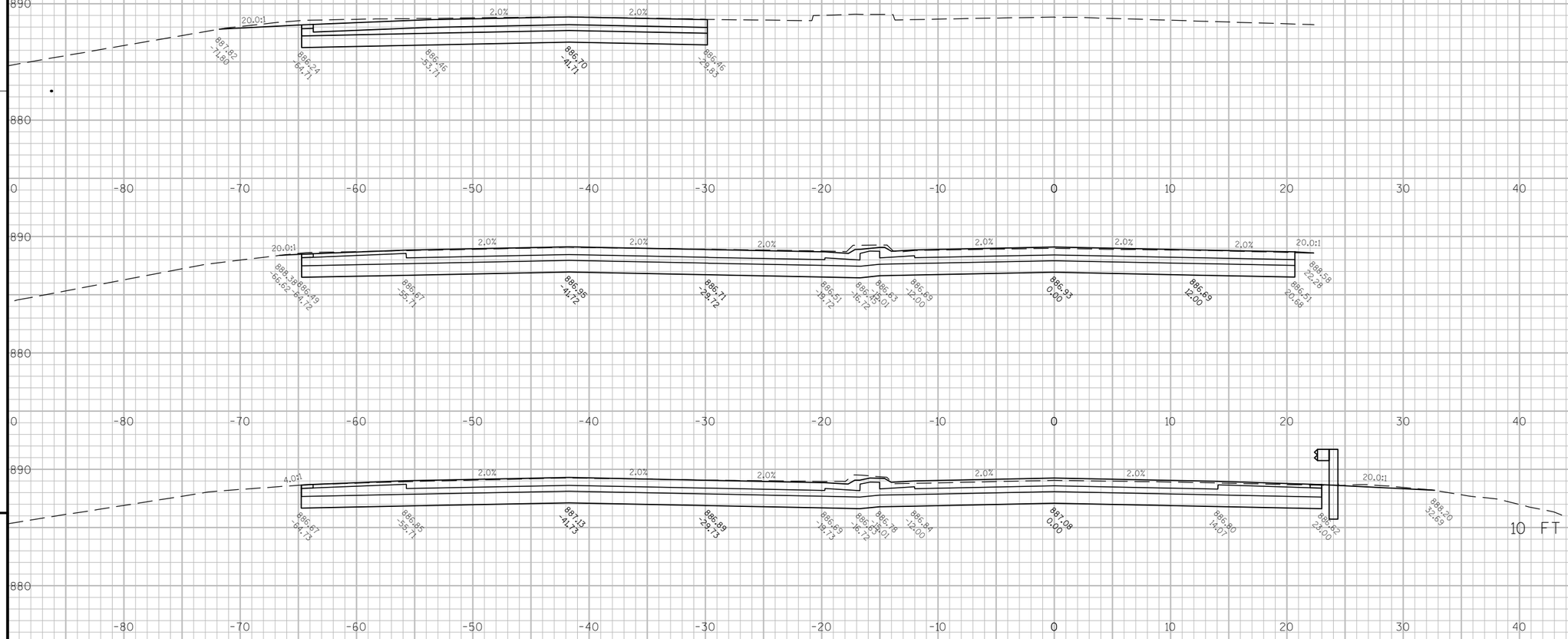
693+00

692+50

692+00

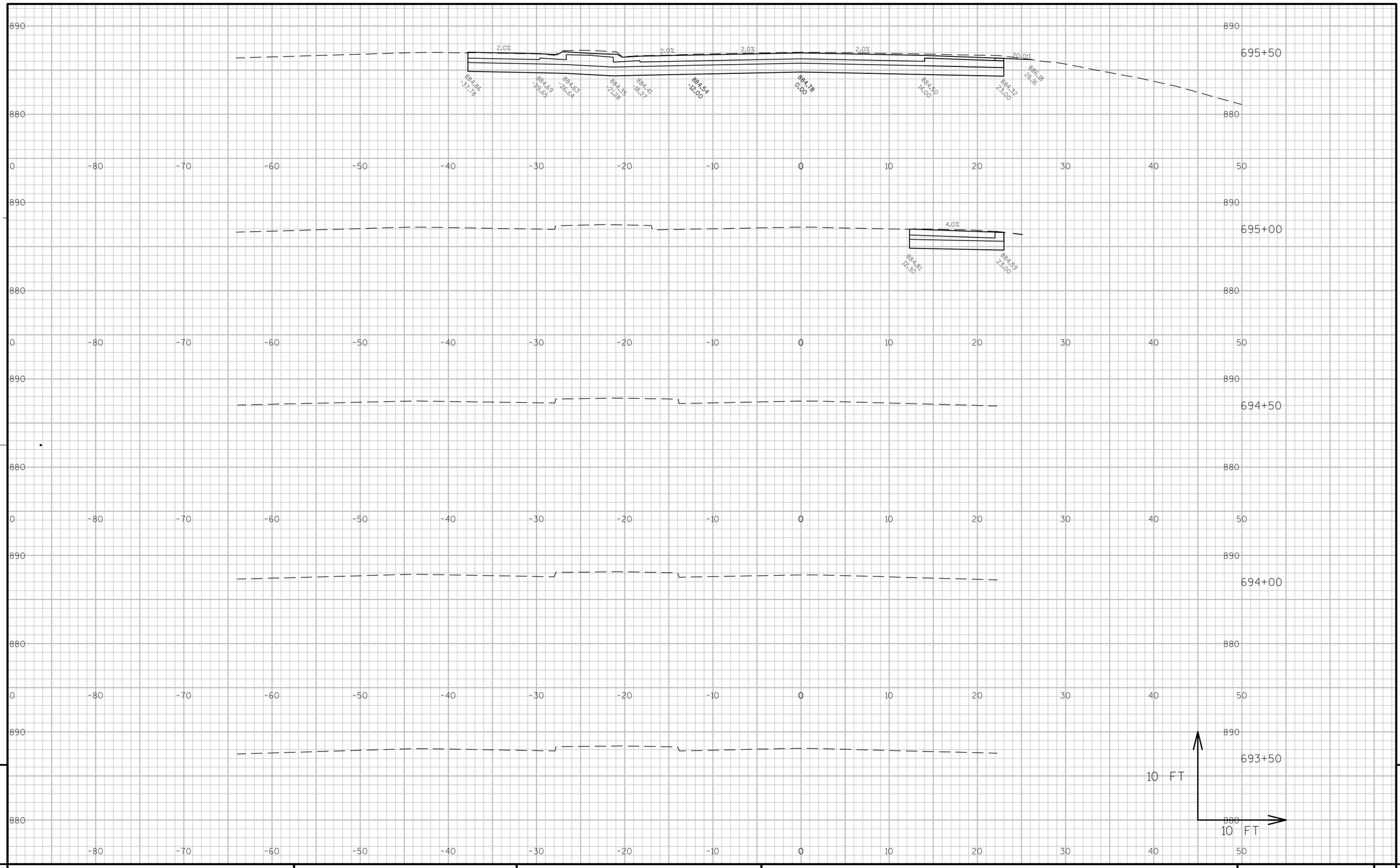
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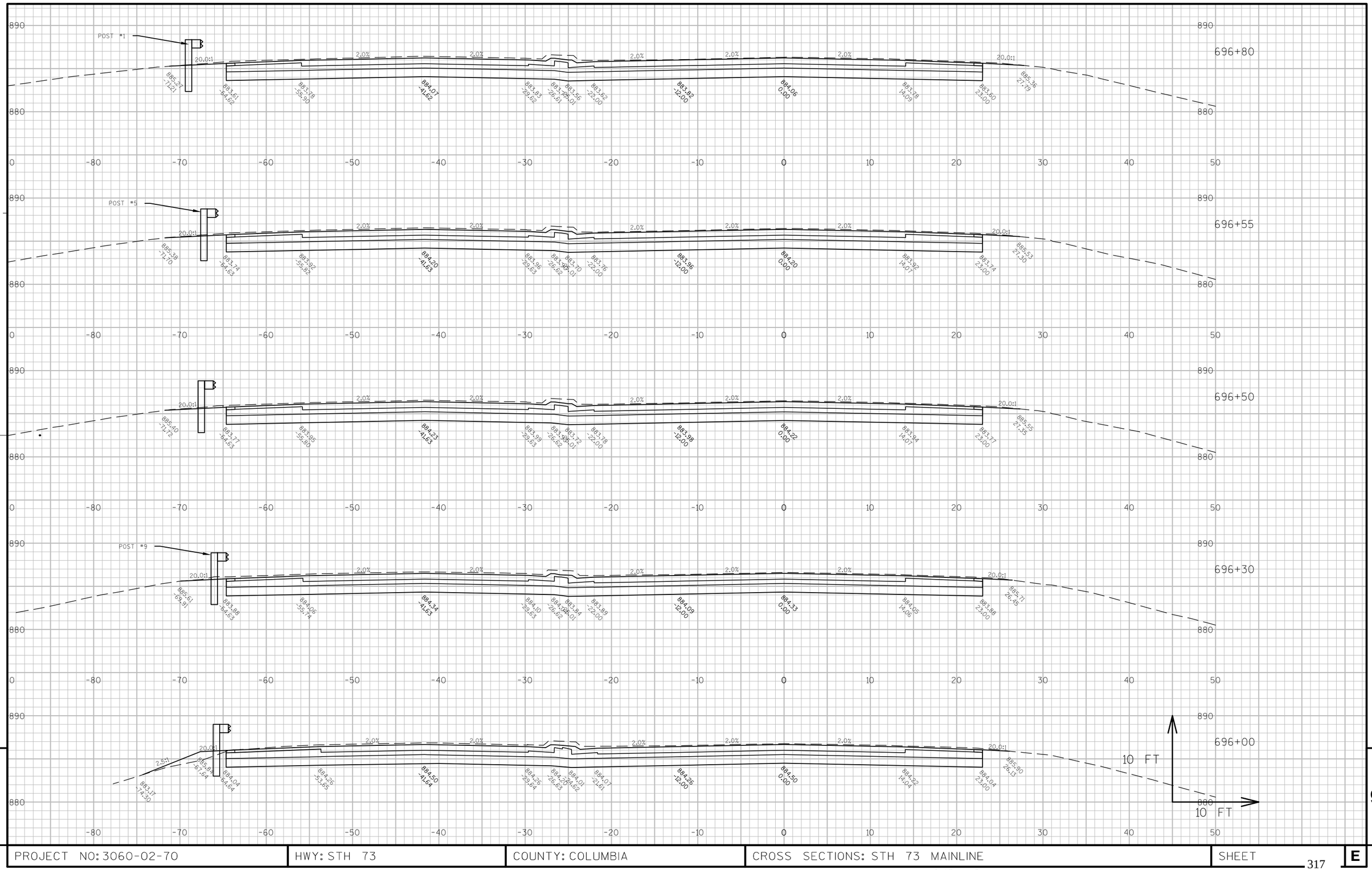
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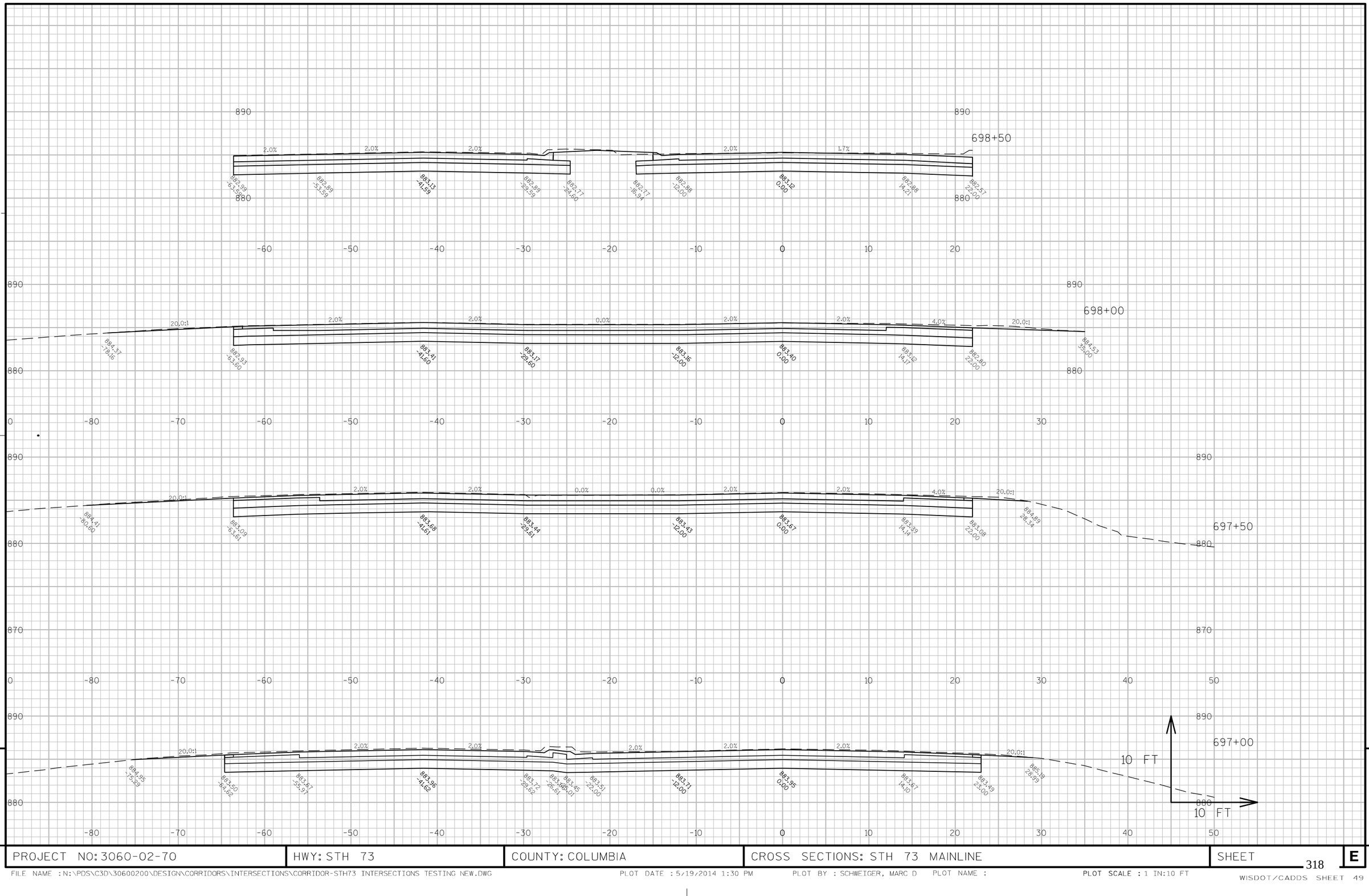
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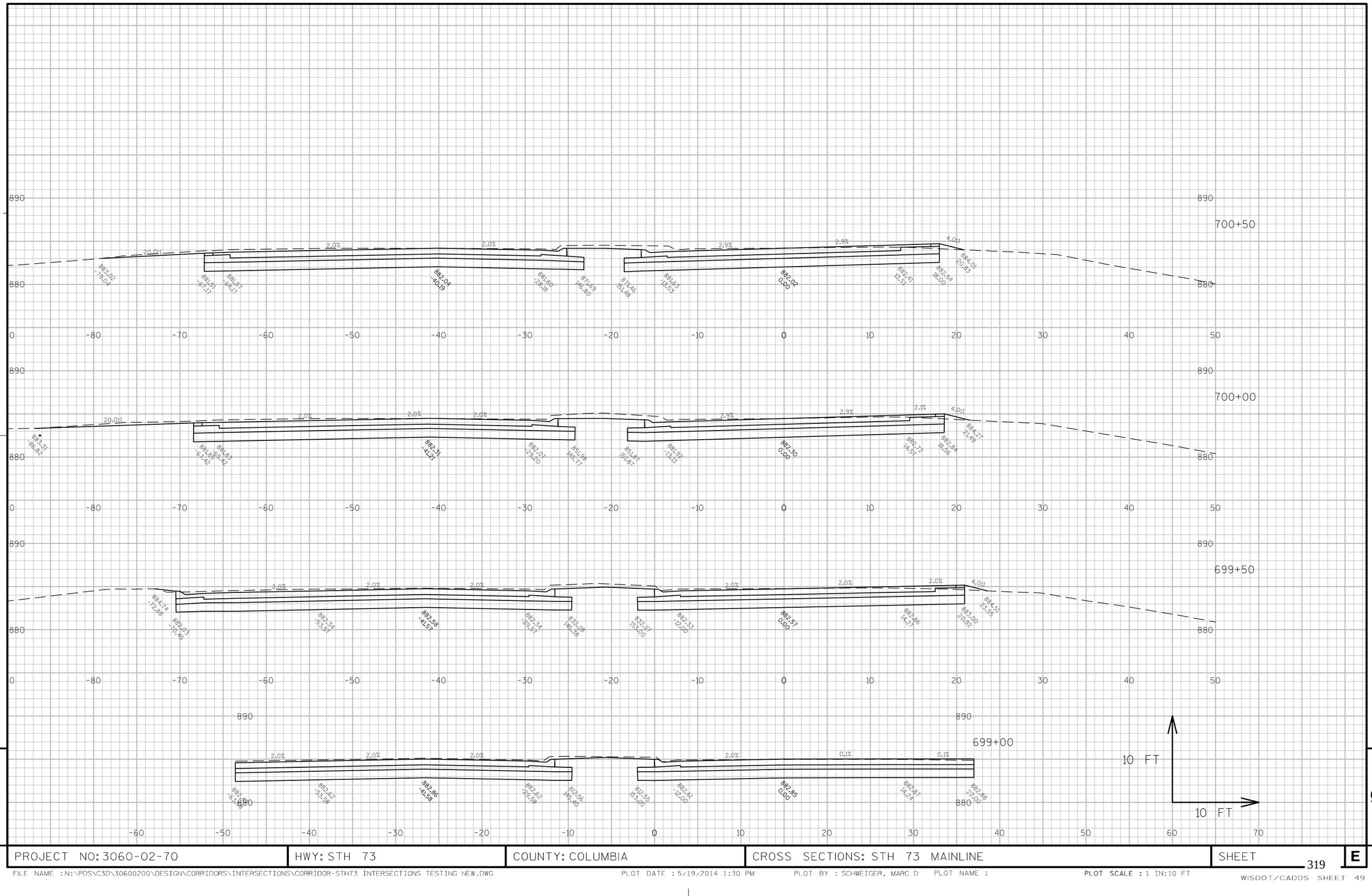
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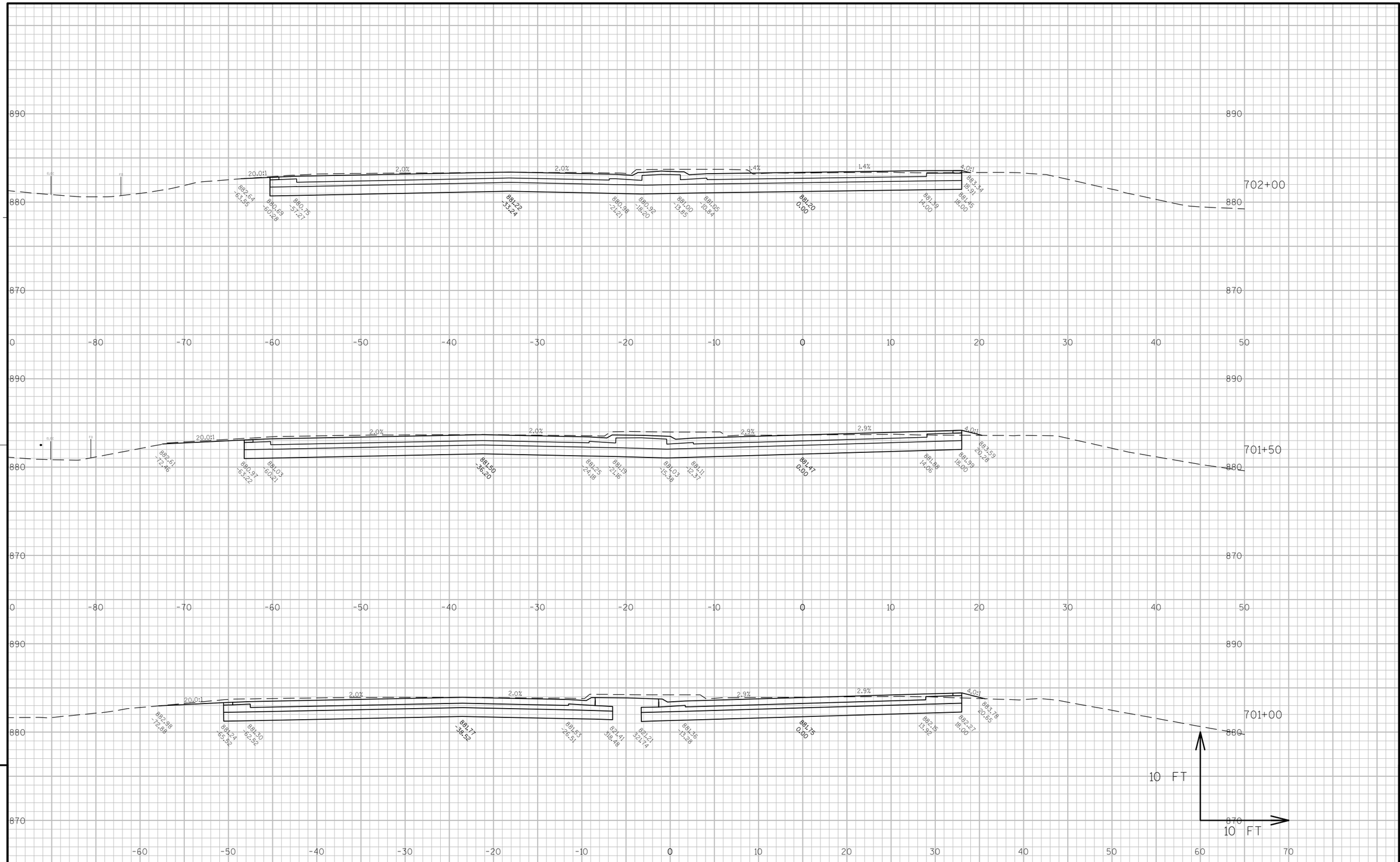
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FILE NAME : N:\PDS\C3D\30600200\DESIGN\CORRIDORS\INTERSECTIONS\CORRIDOR-STH73 INTERSECTIONS TESTING NEW.DWG PLOT DATE : 5/19/2014 1:30 PM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CROSS SECTIONS: STH 73 MAINLINE	SHEET 319	E

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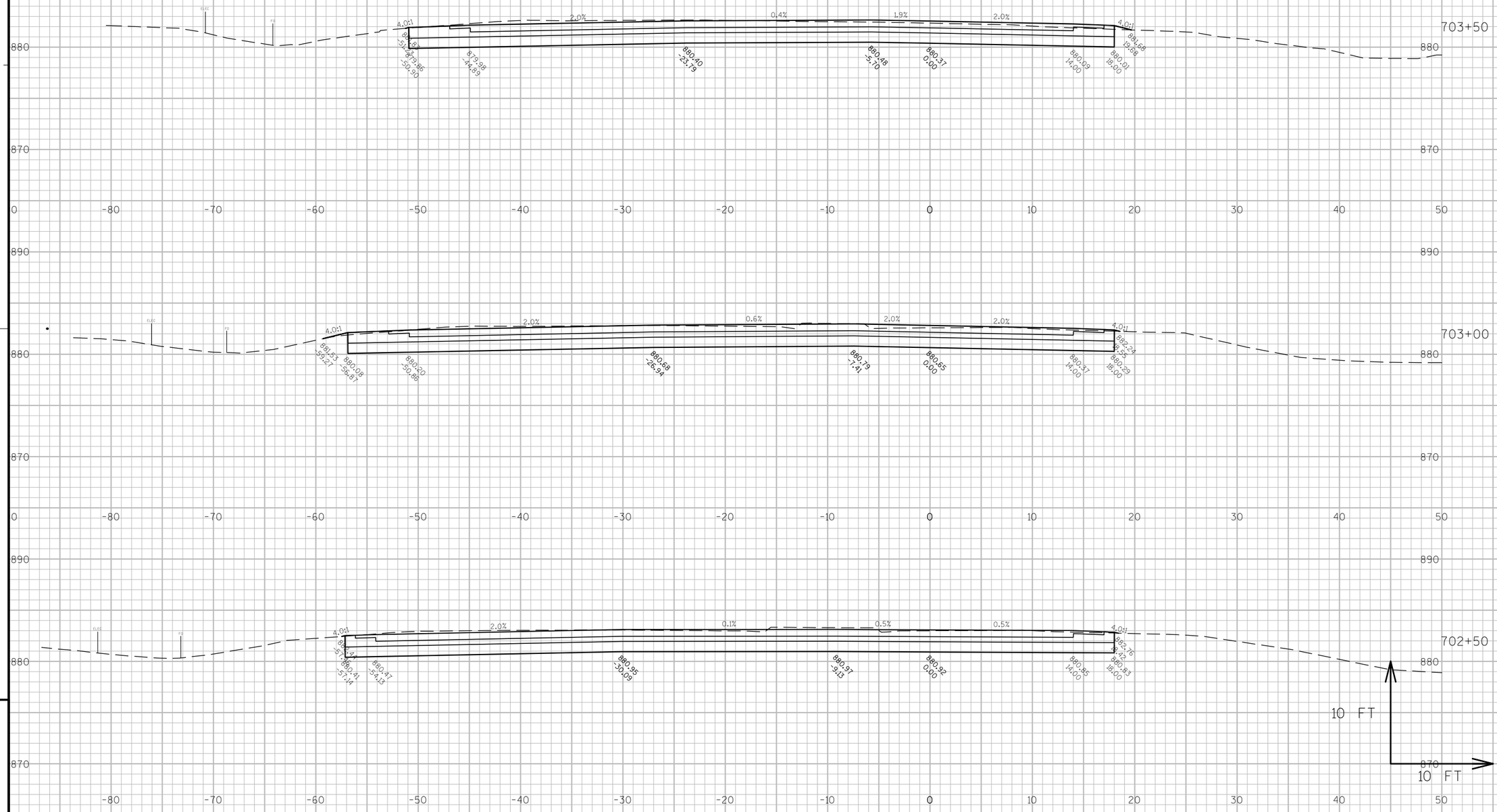


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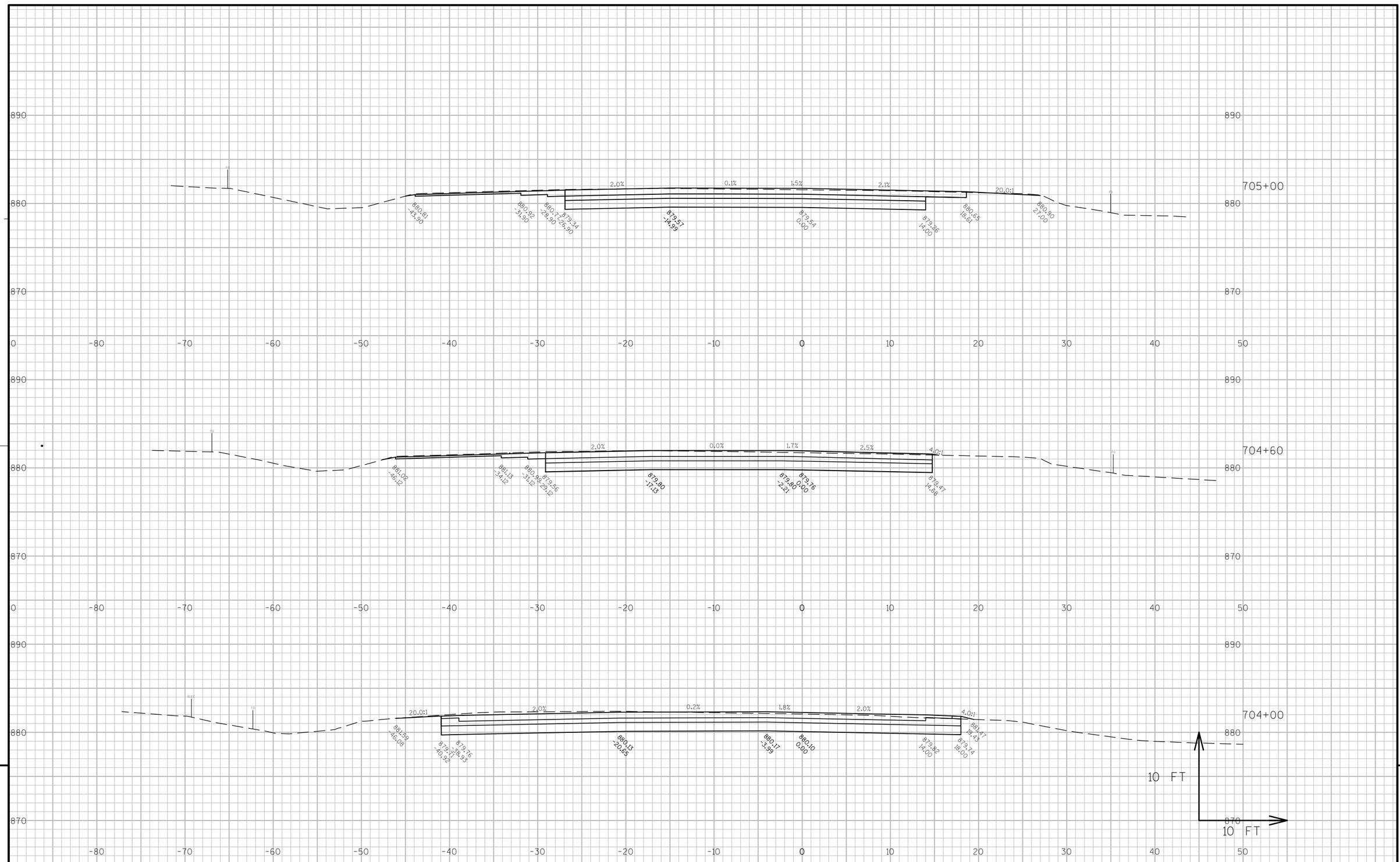
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PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CROSS SECTIONS: STH 73 MAINLINE	SHEET	E

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PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CROSS SECTIONS: STH 73 MAINLINE	SHEET

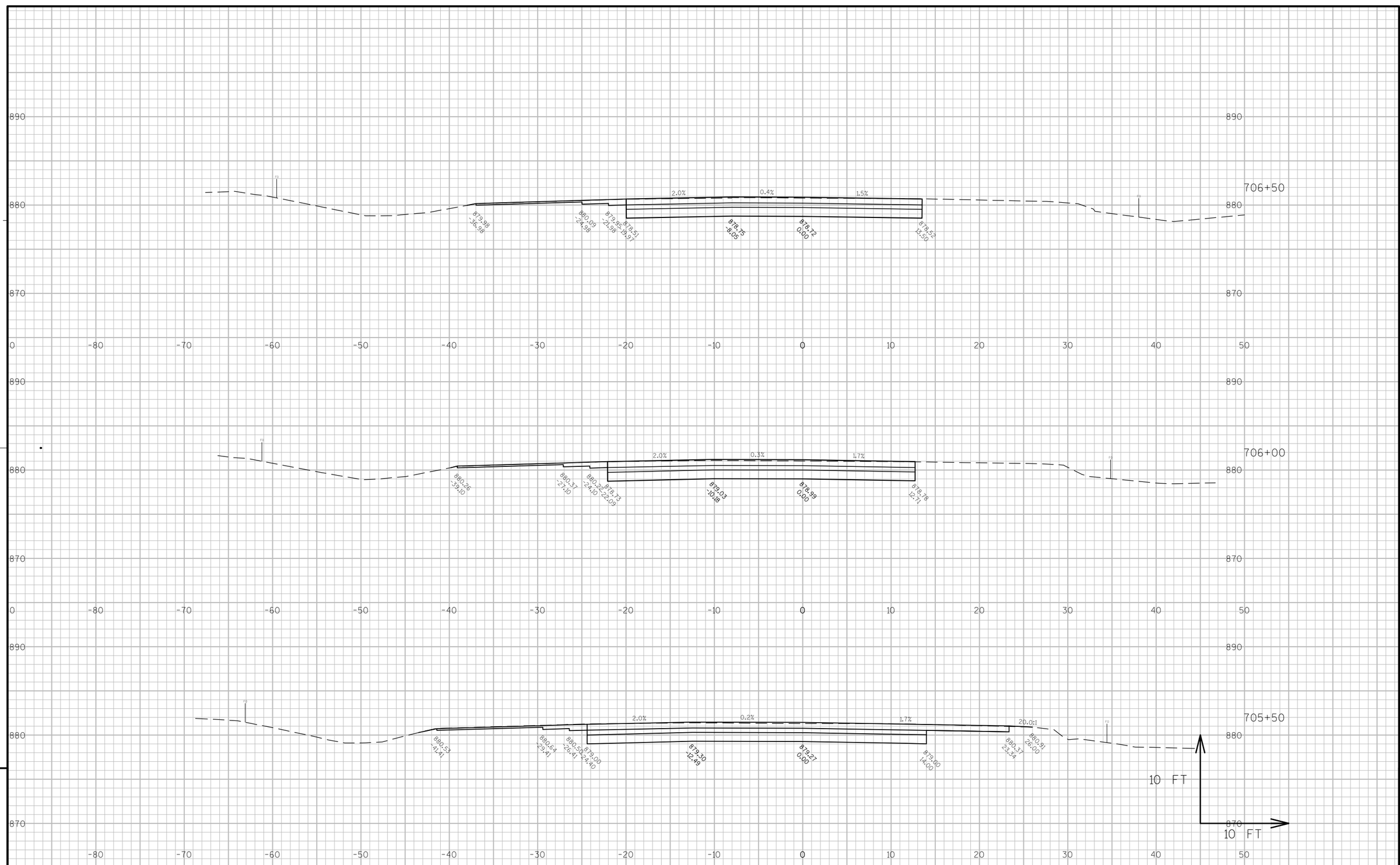


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PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CROSS SECTIONS: STH 73 MAINLINE	SHEET	E

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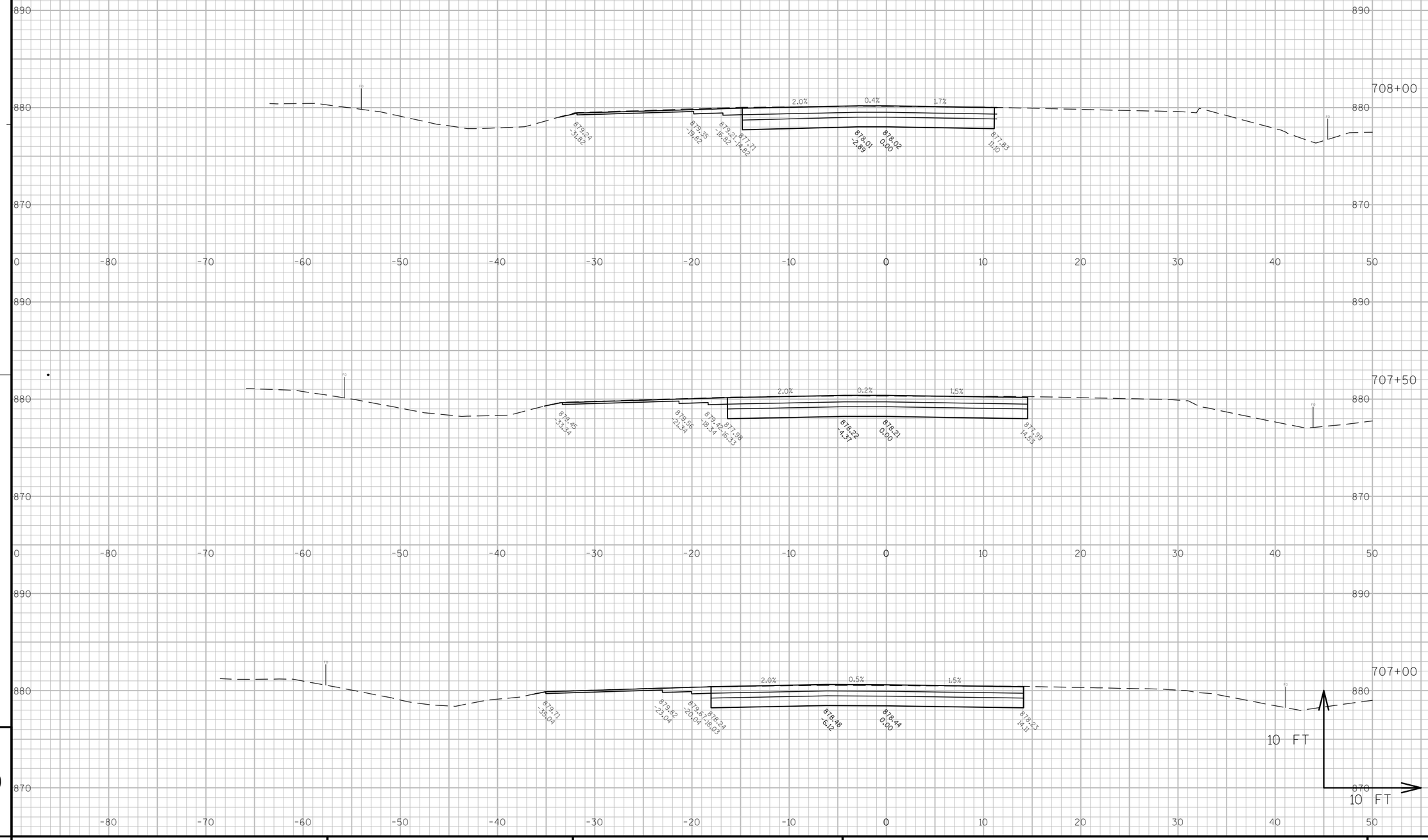


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PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CROSS SECTIONS: STH 73 MAINLINE	SHEET	E

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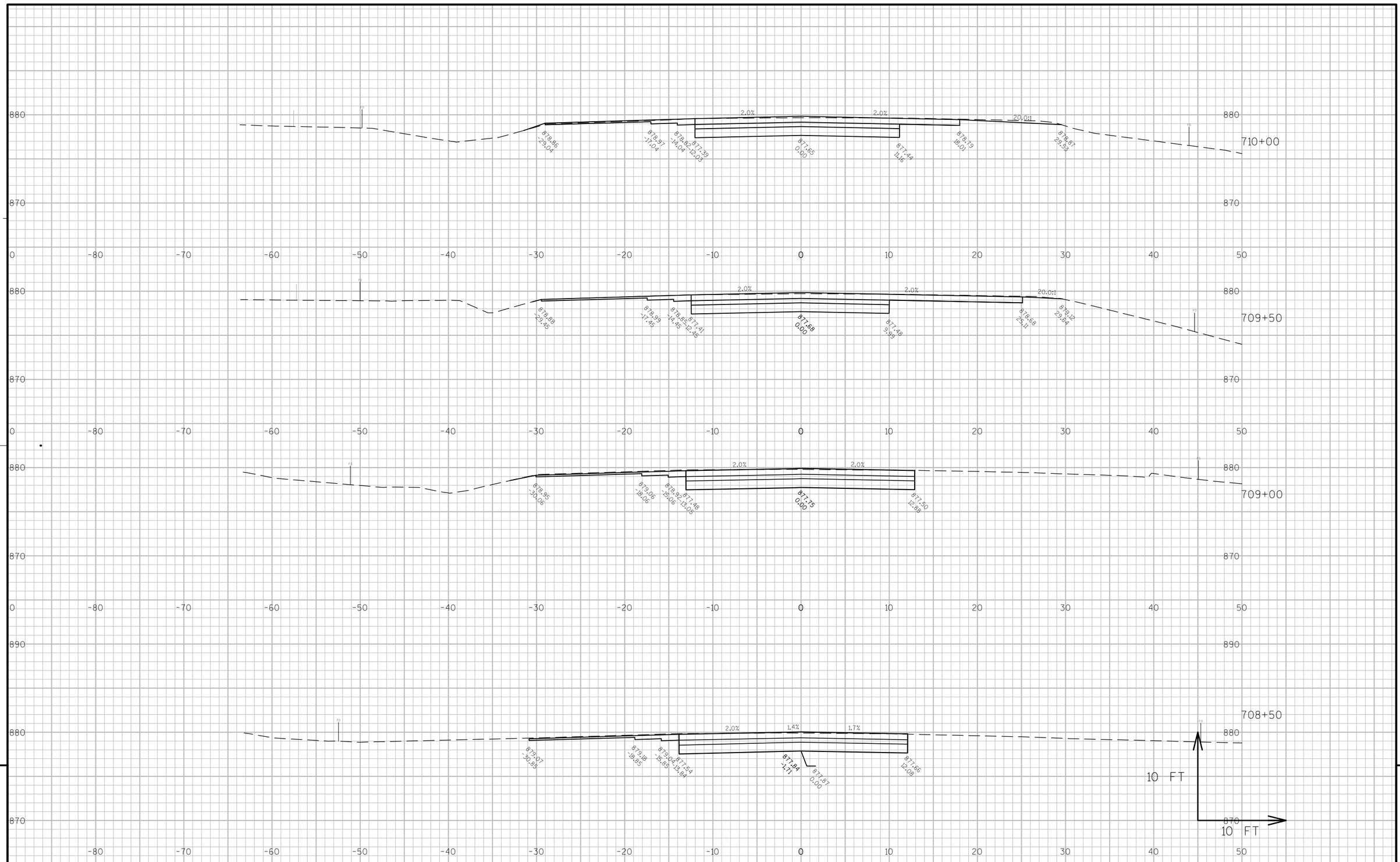


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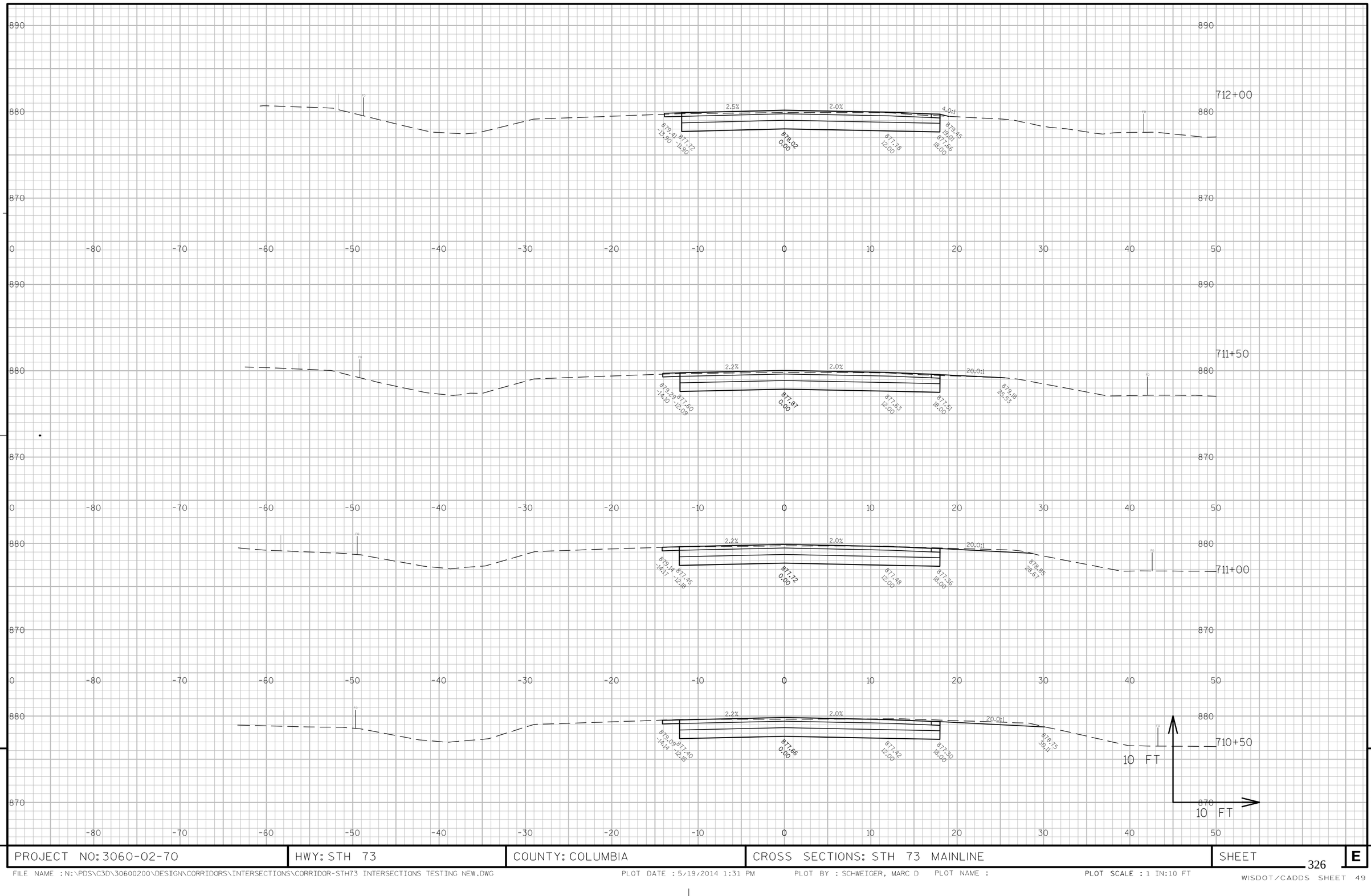
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PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CROSS SECTIONS: STH 73 MAINLINE	SHEET E

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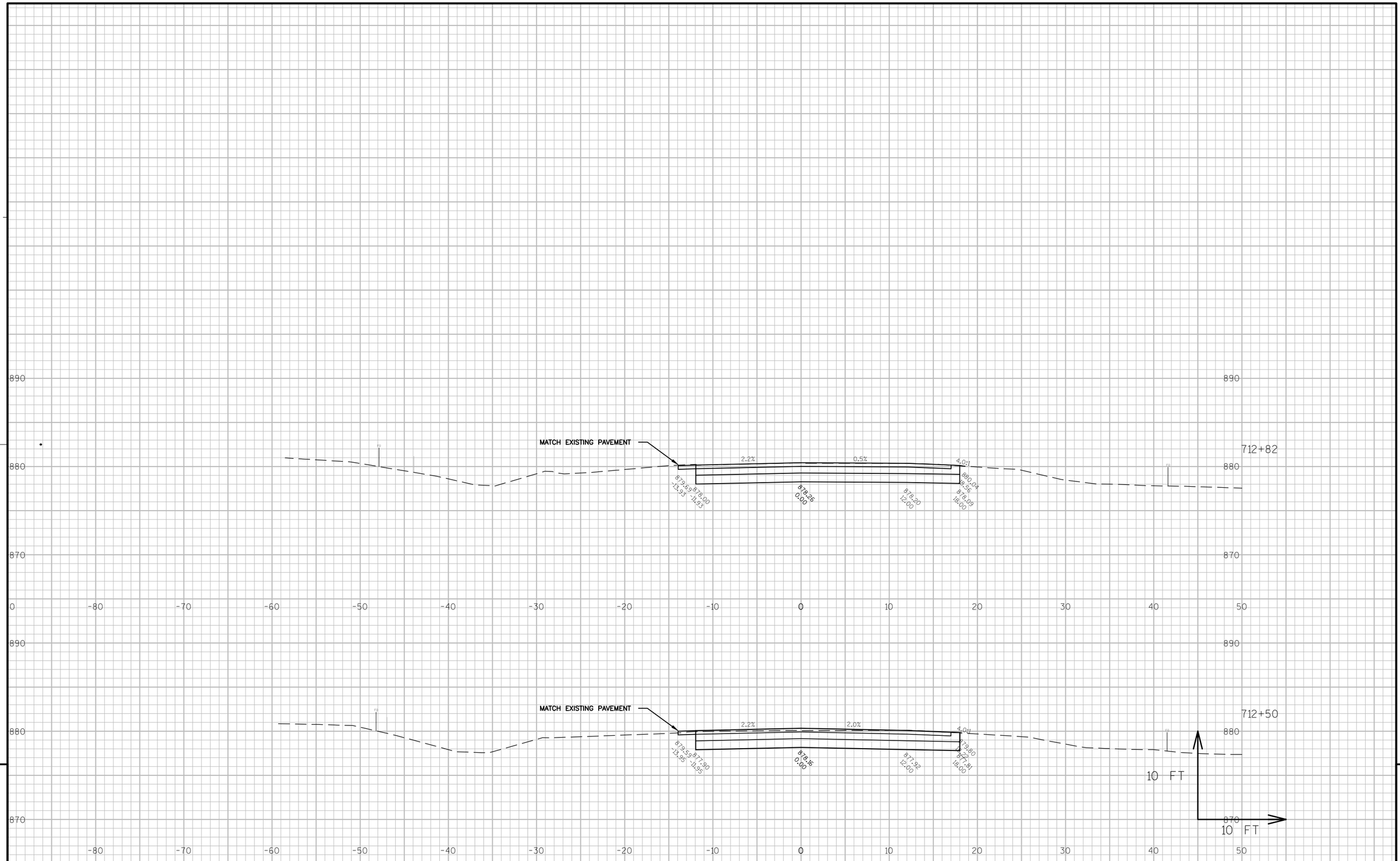


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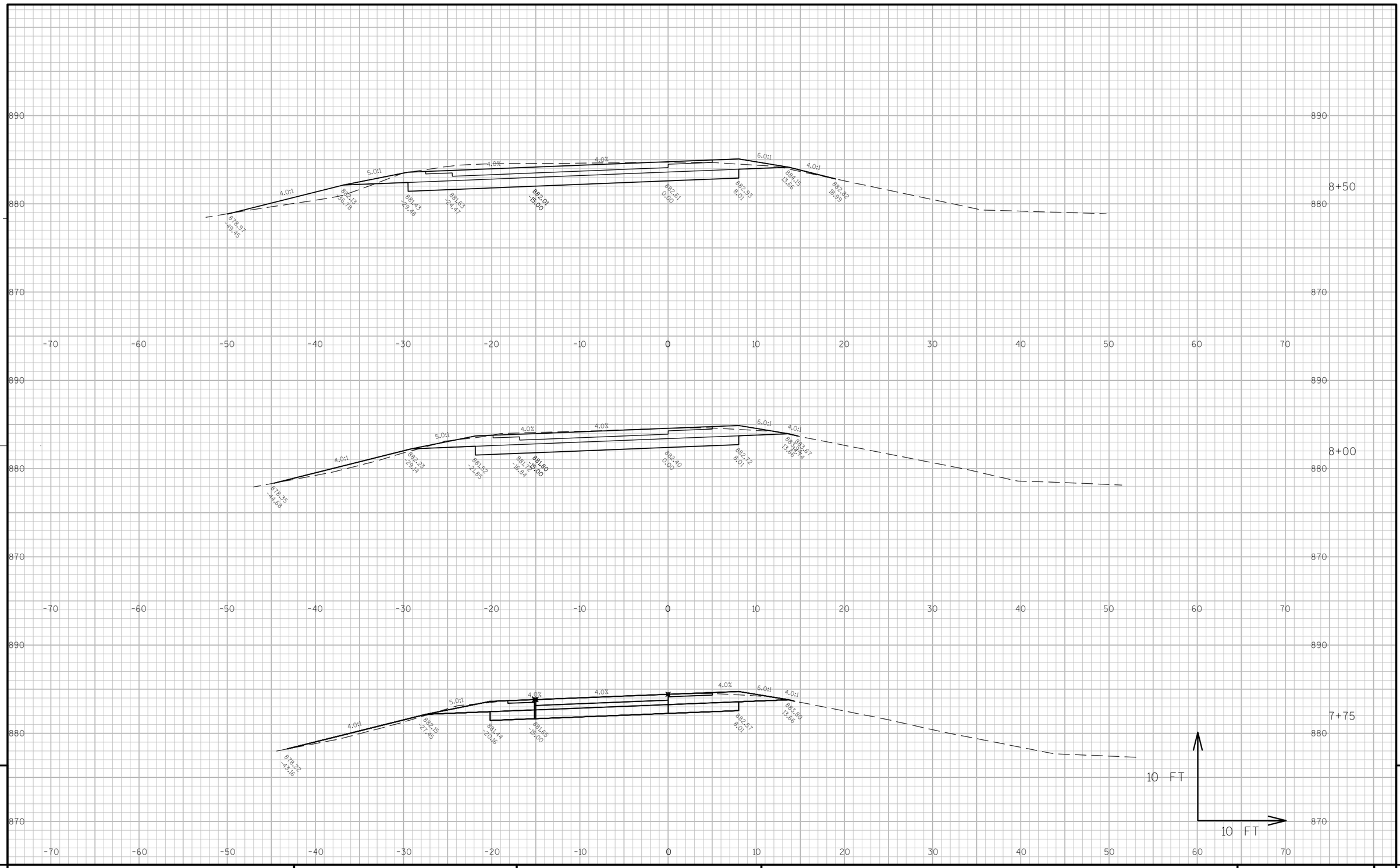
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PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CROSS SECTIONS: STH 73 MAINLINE	SHEET 327	E

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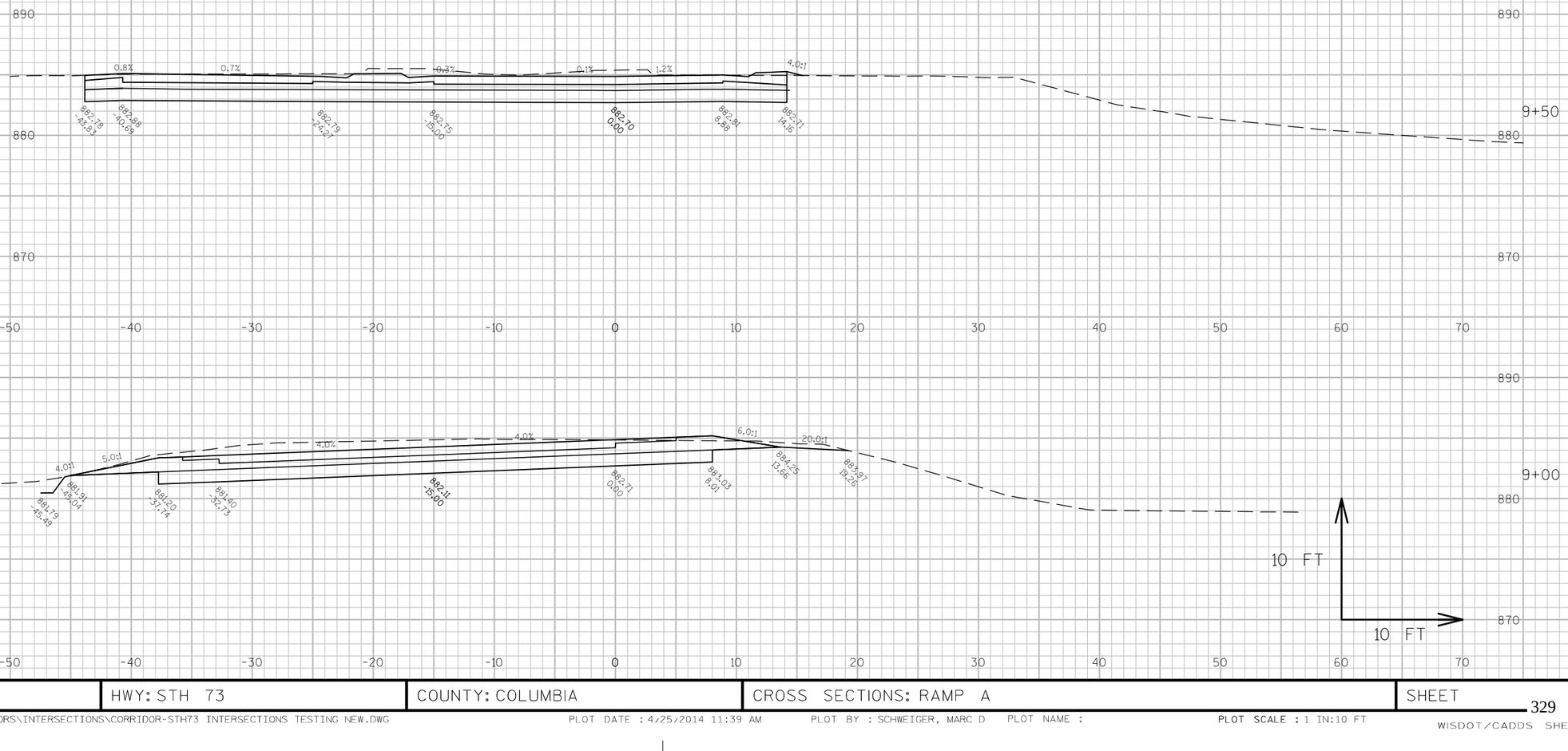


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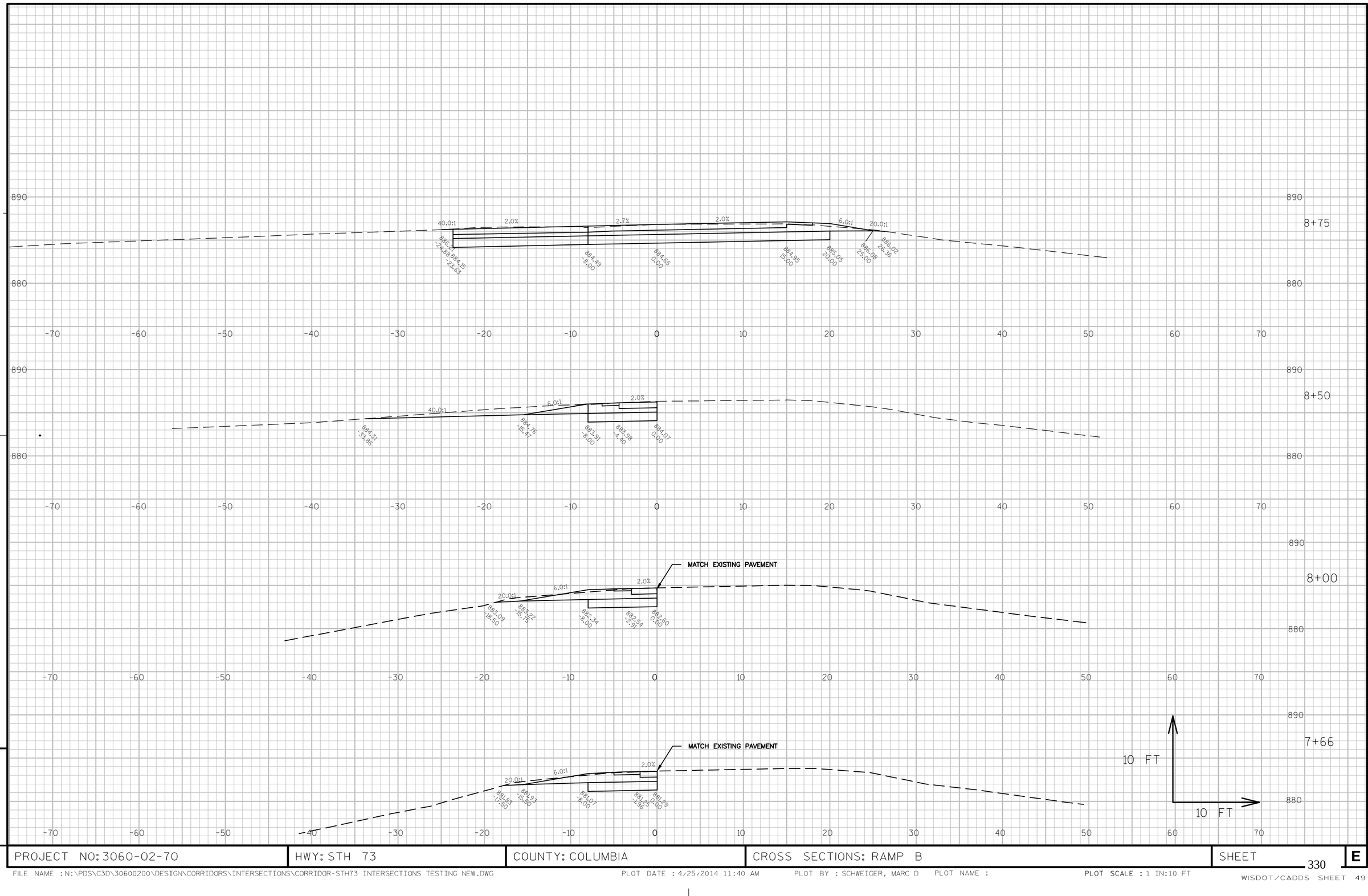
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PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CROSS SECTIONS: RAMP A	SHEET 329	E

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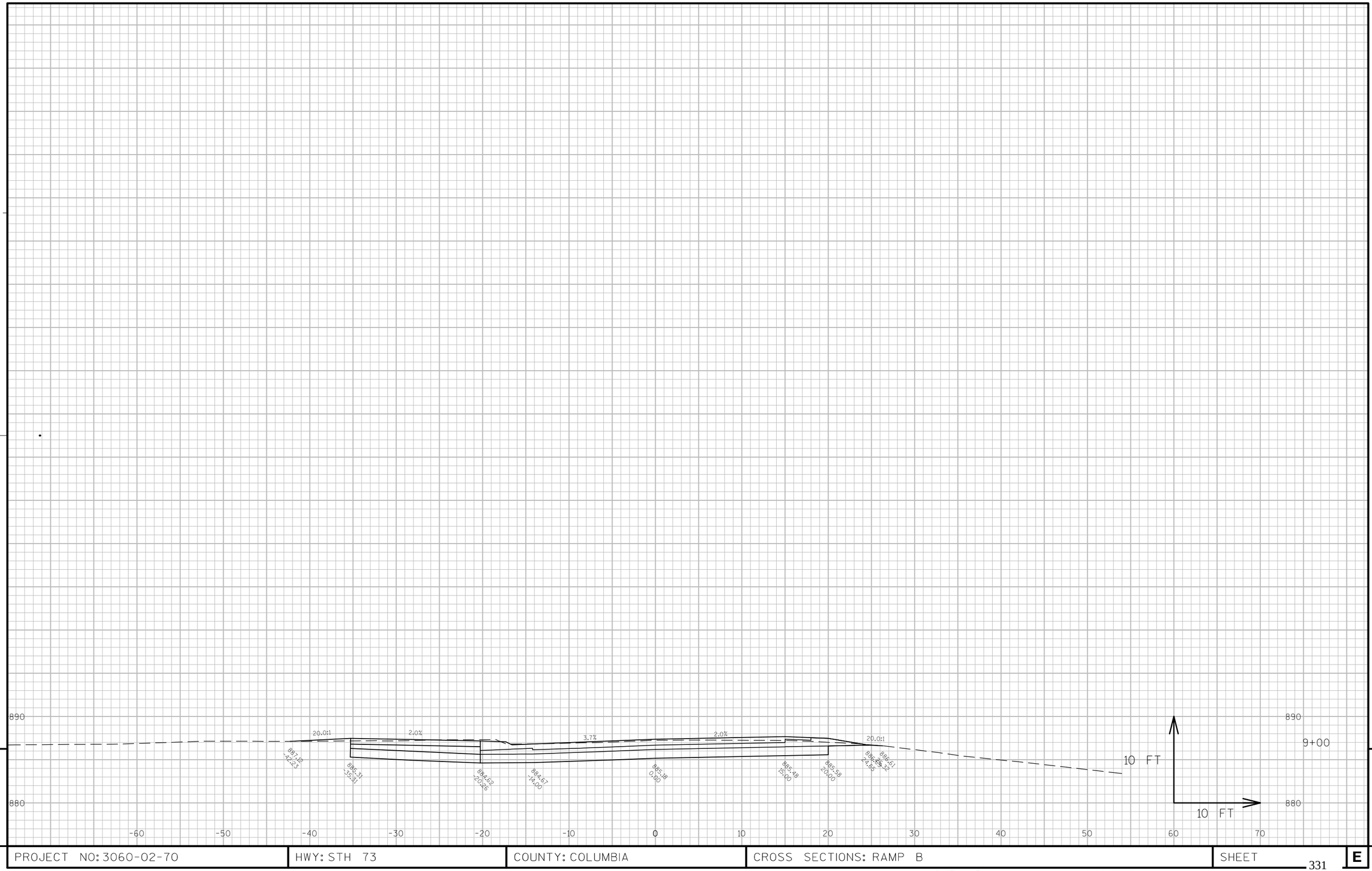


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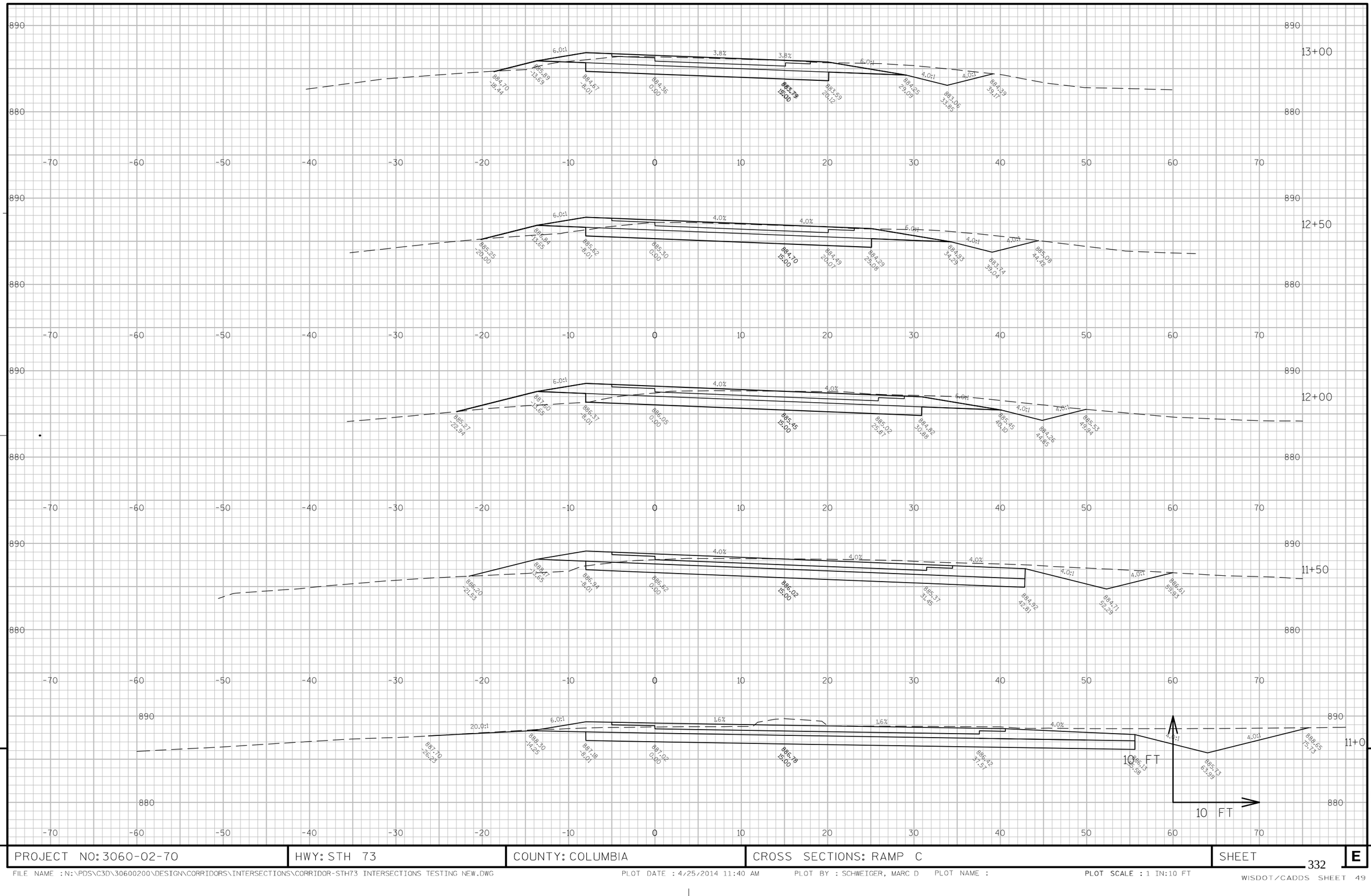
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WISDOT/CADDS SHEET 49



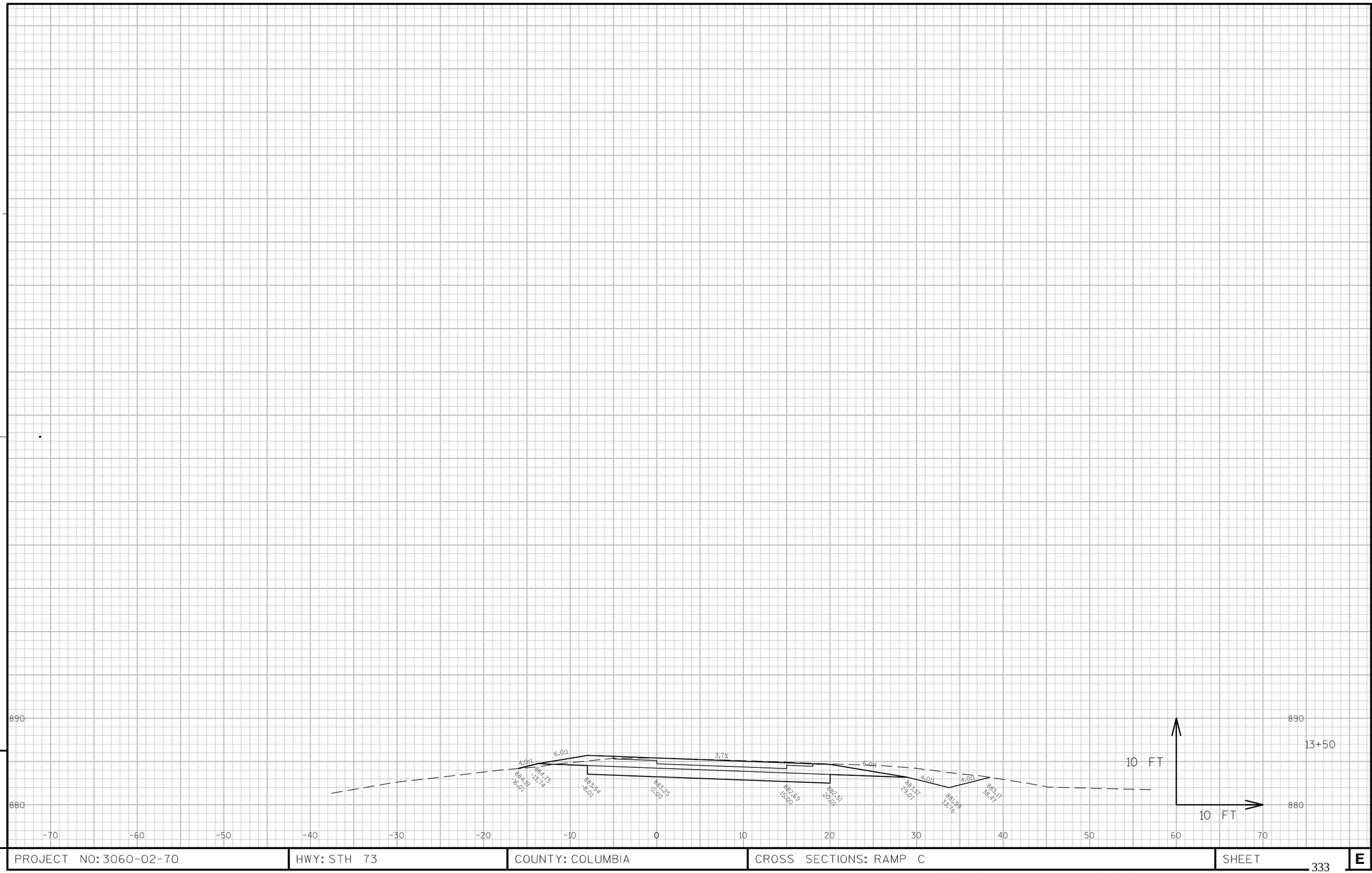
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PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CROSS SECTIONS: RAMP B	SHEET 331	E



PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CROSS SECTIONS: RAMP C	SHEET 332	E

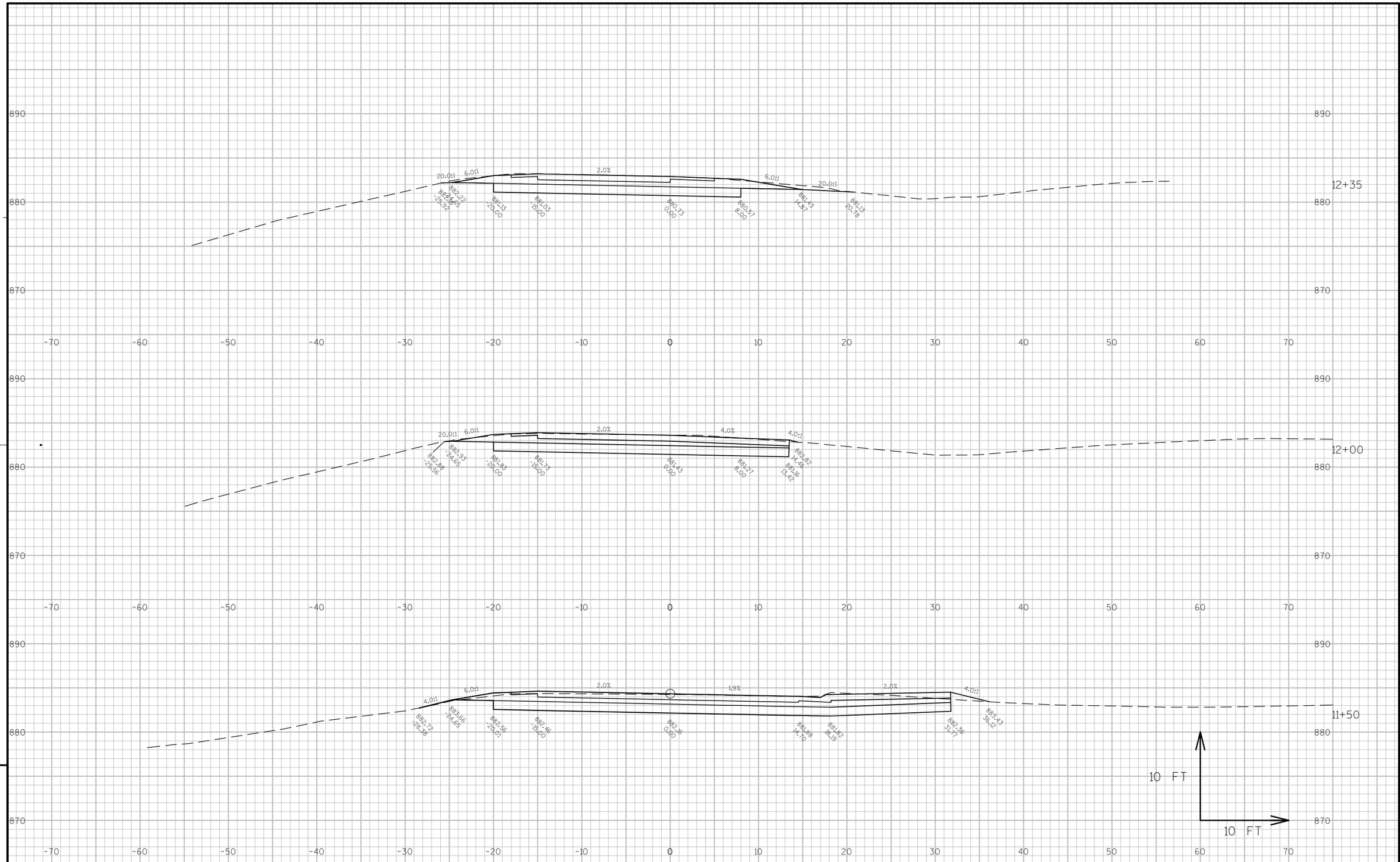
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PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CROSS SECTIONS: RAMP C	SHEET 333	E

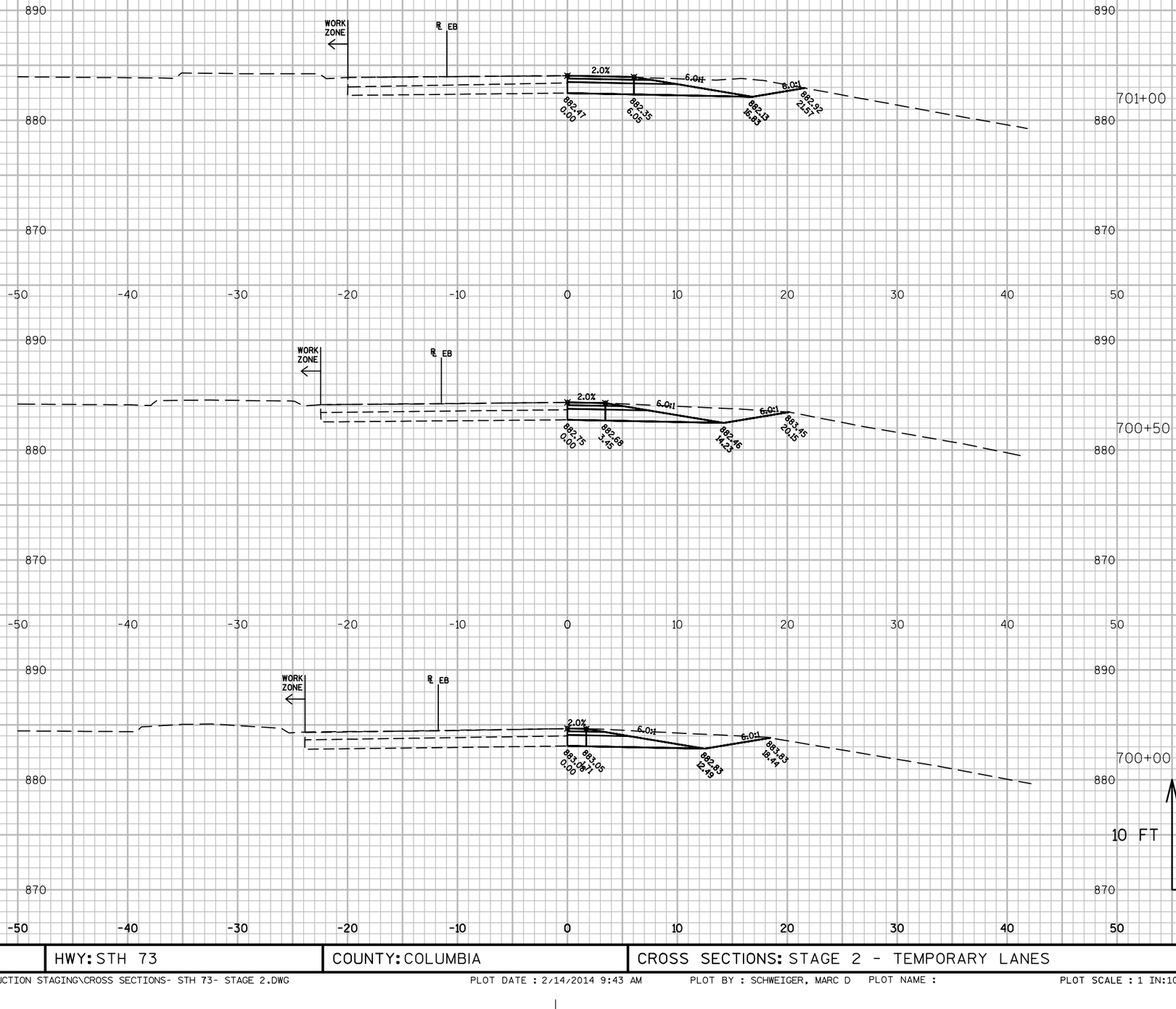
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WISDOT/CADDS SHEET 49



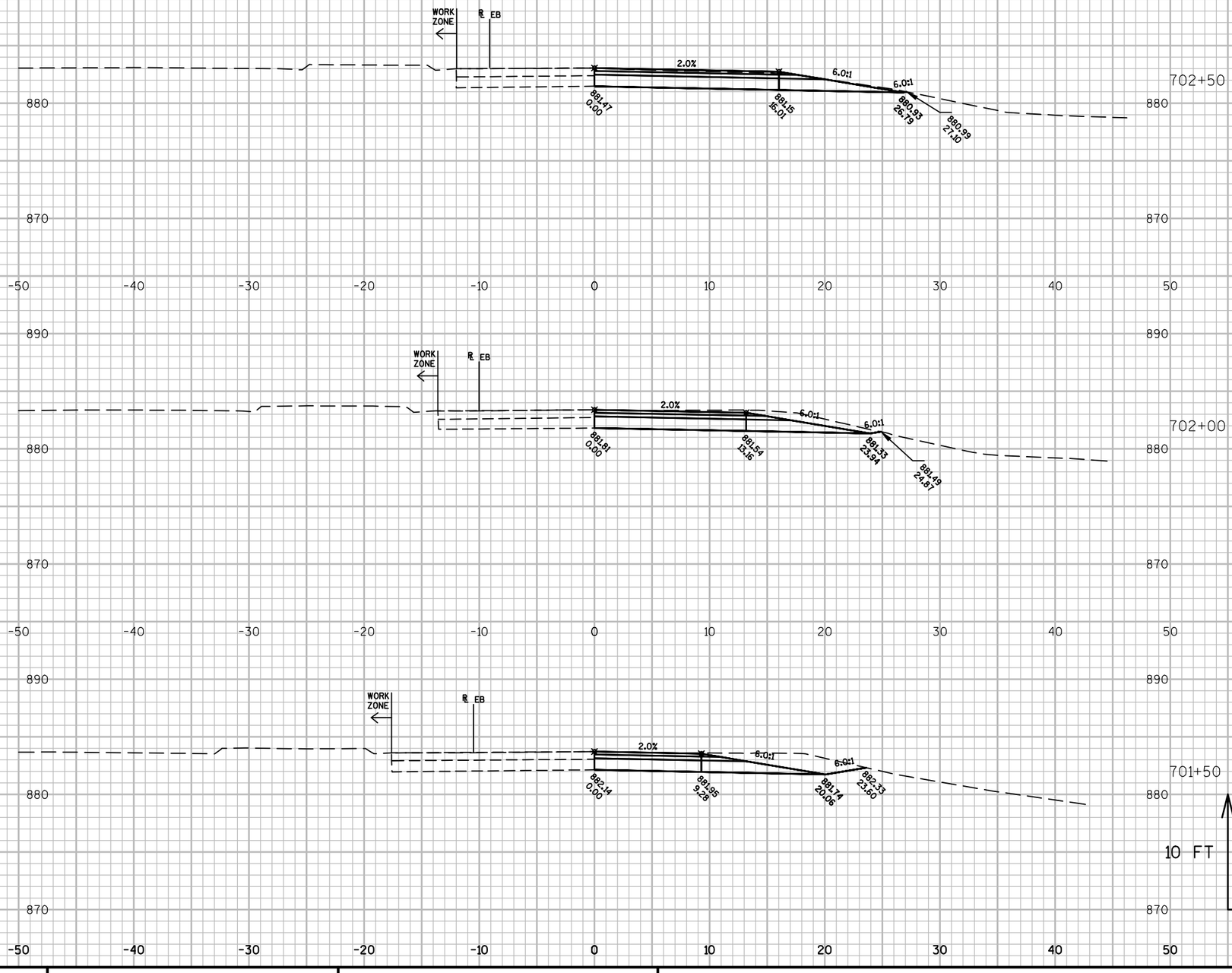
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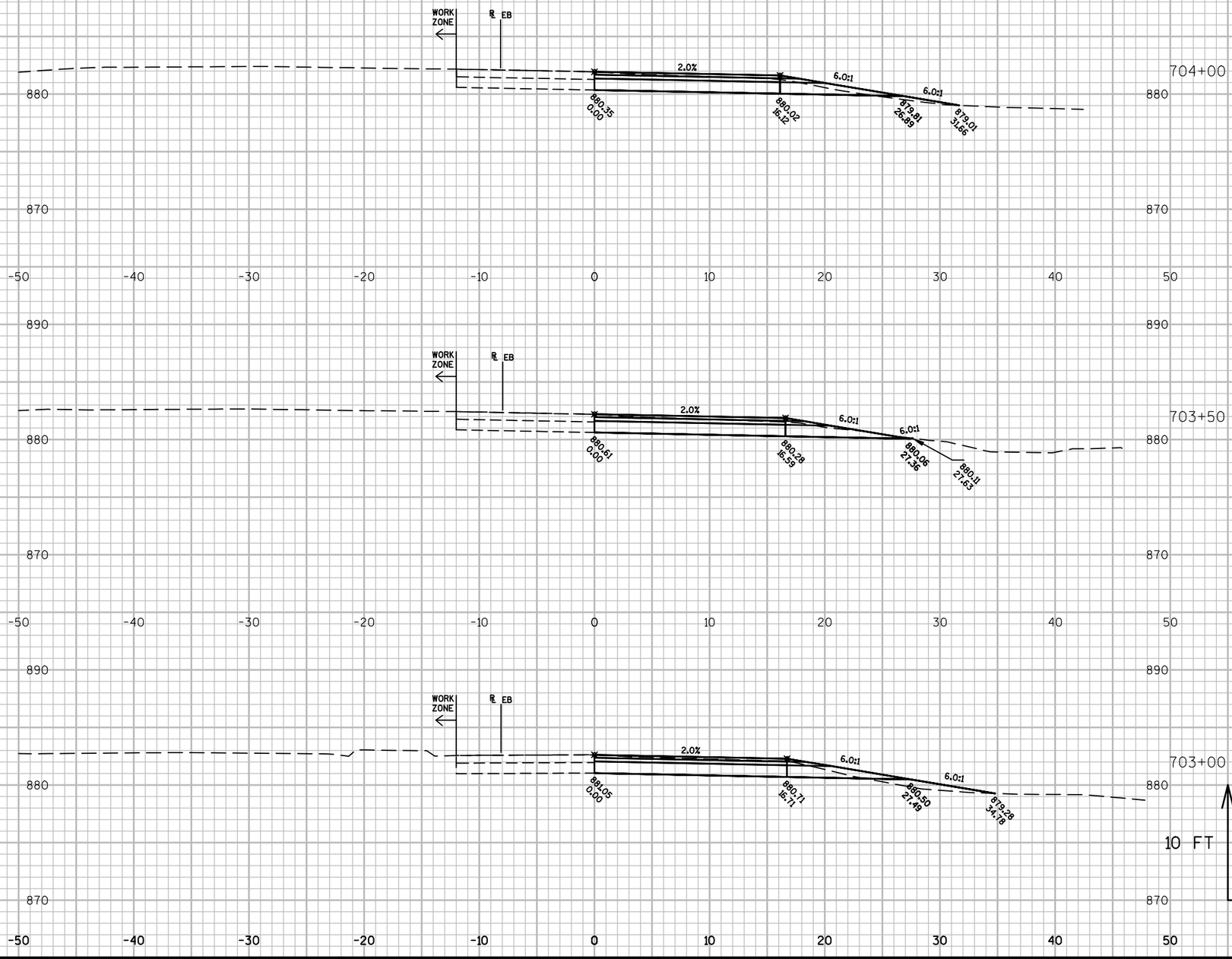
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PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CROSS SECTIONS: STAGE 2 - TEMPORARY LANES	SHEET	E

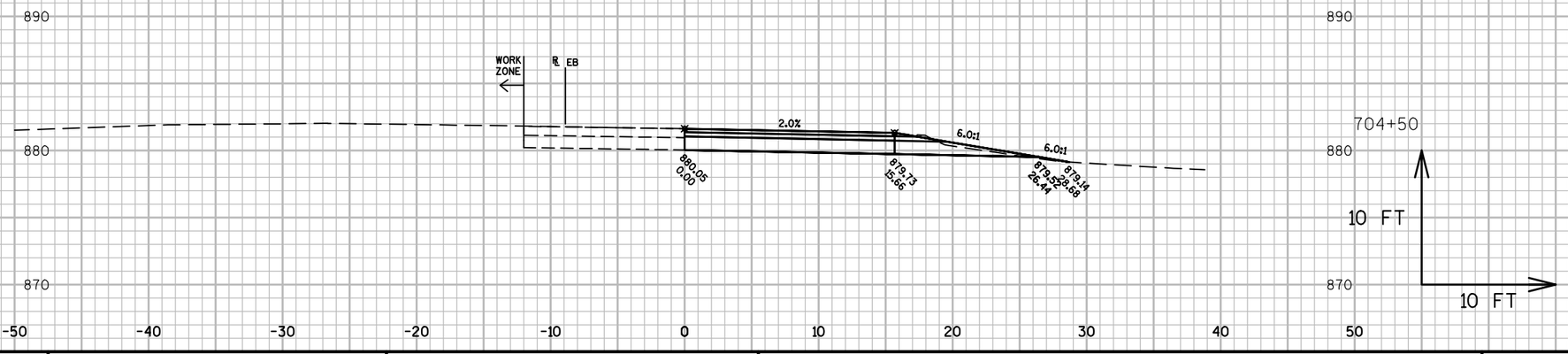
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PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CROSS SECTIONS: STAGE 2 - TEMPORARY LANES	SHEET 337	E

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WISDOT/CADDS SHEET 49

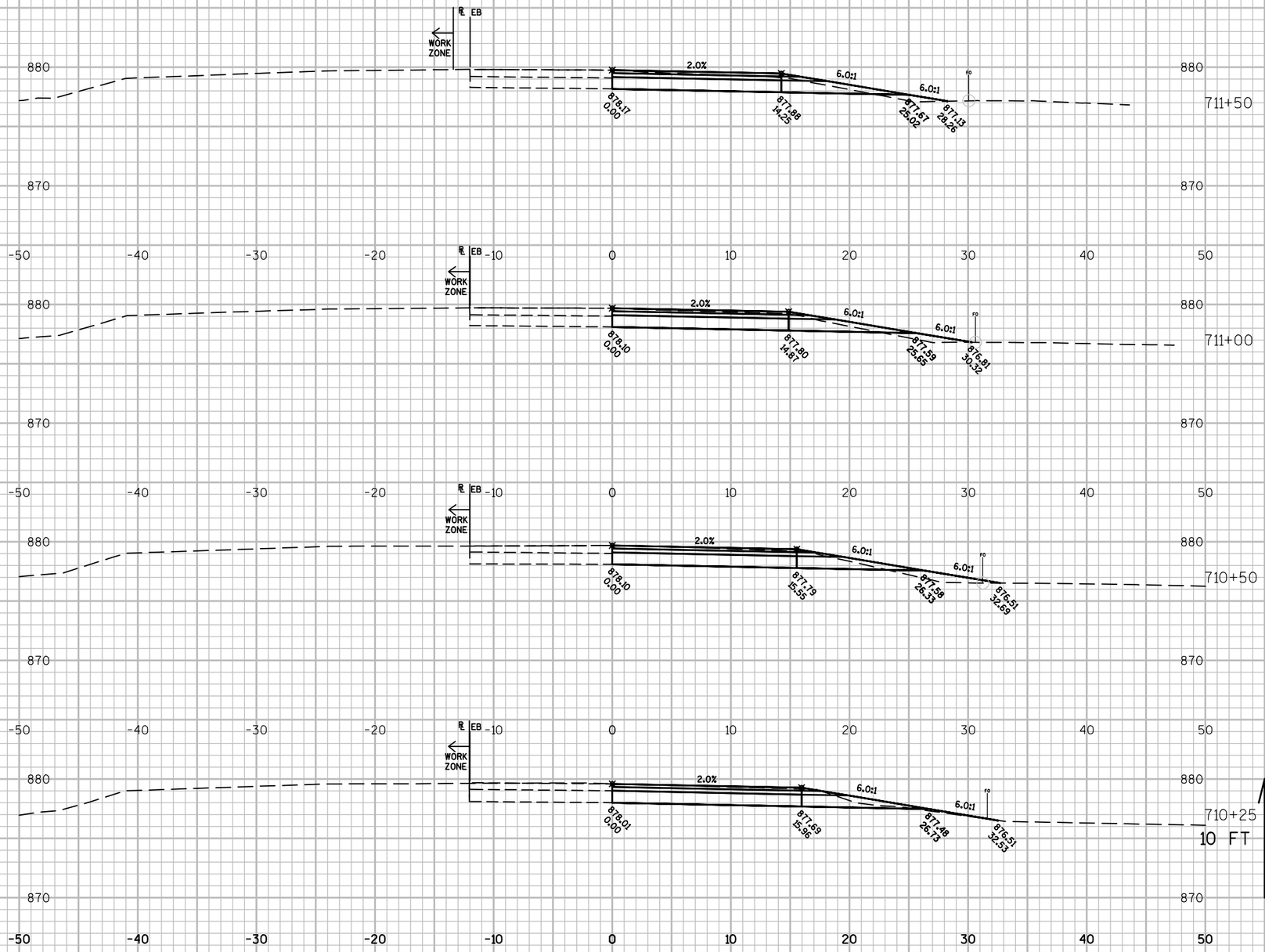


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PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CROSS SECTIONS: STAGE 2 - TEMPORARY LANES	SHEET	E

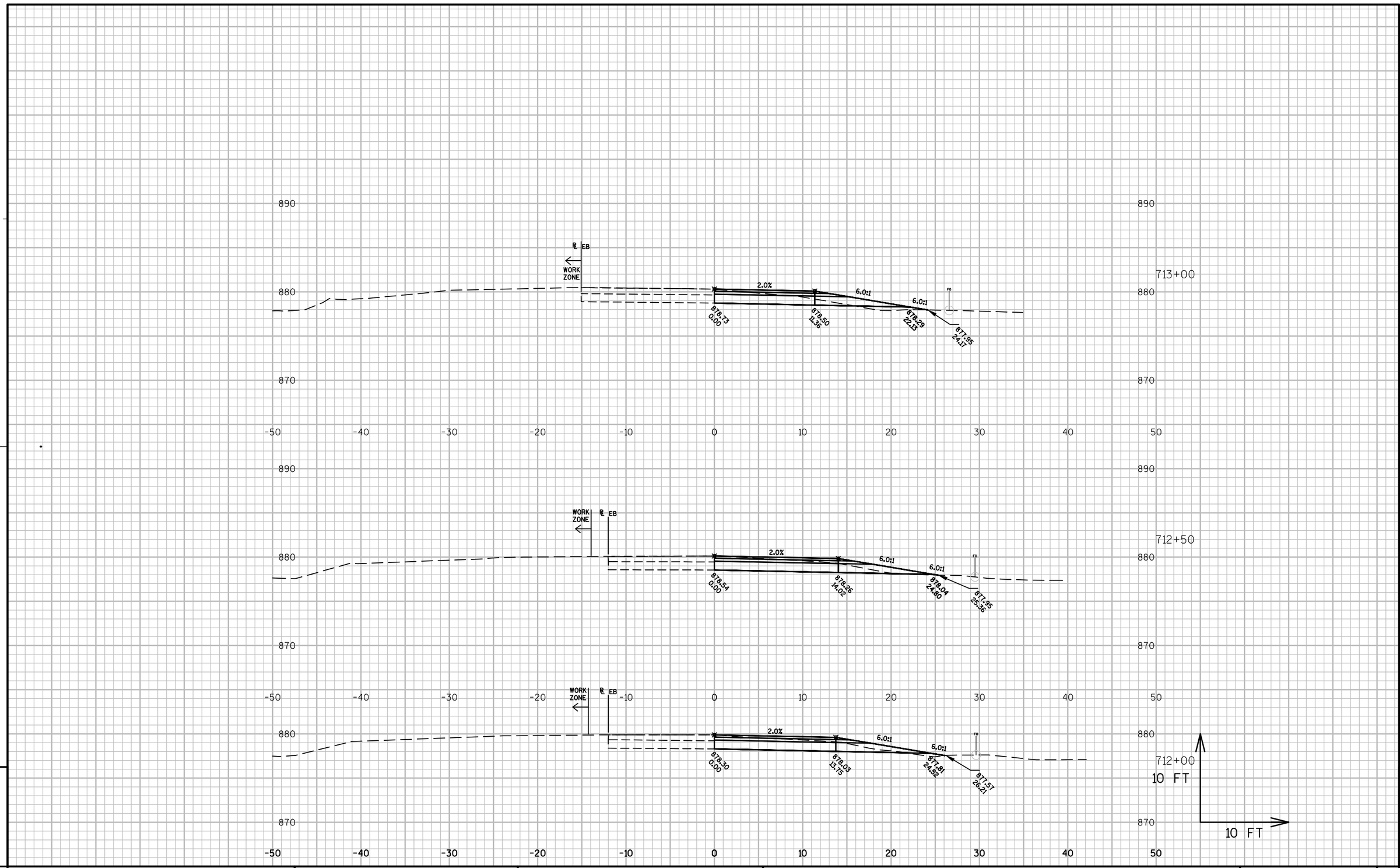
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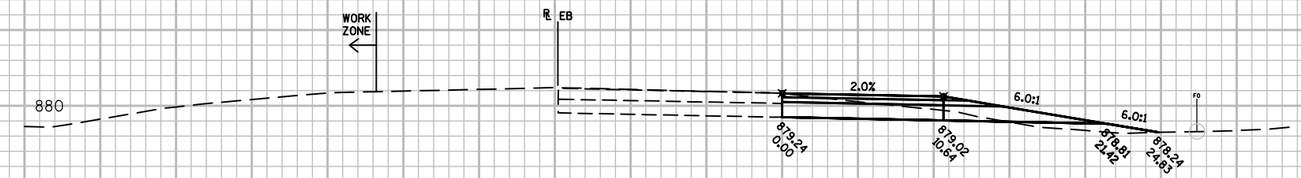
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PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CROSS SECTIONS: STAGE 2 - TEMPORARY LANES	SHEET	E

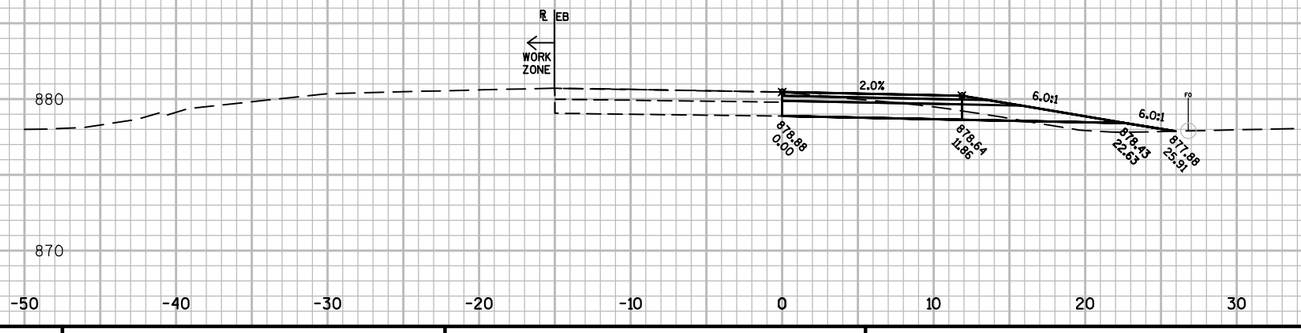
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WISDOT/CADDS SHEET 49



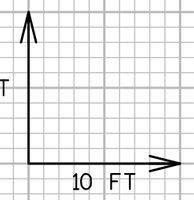
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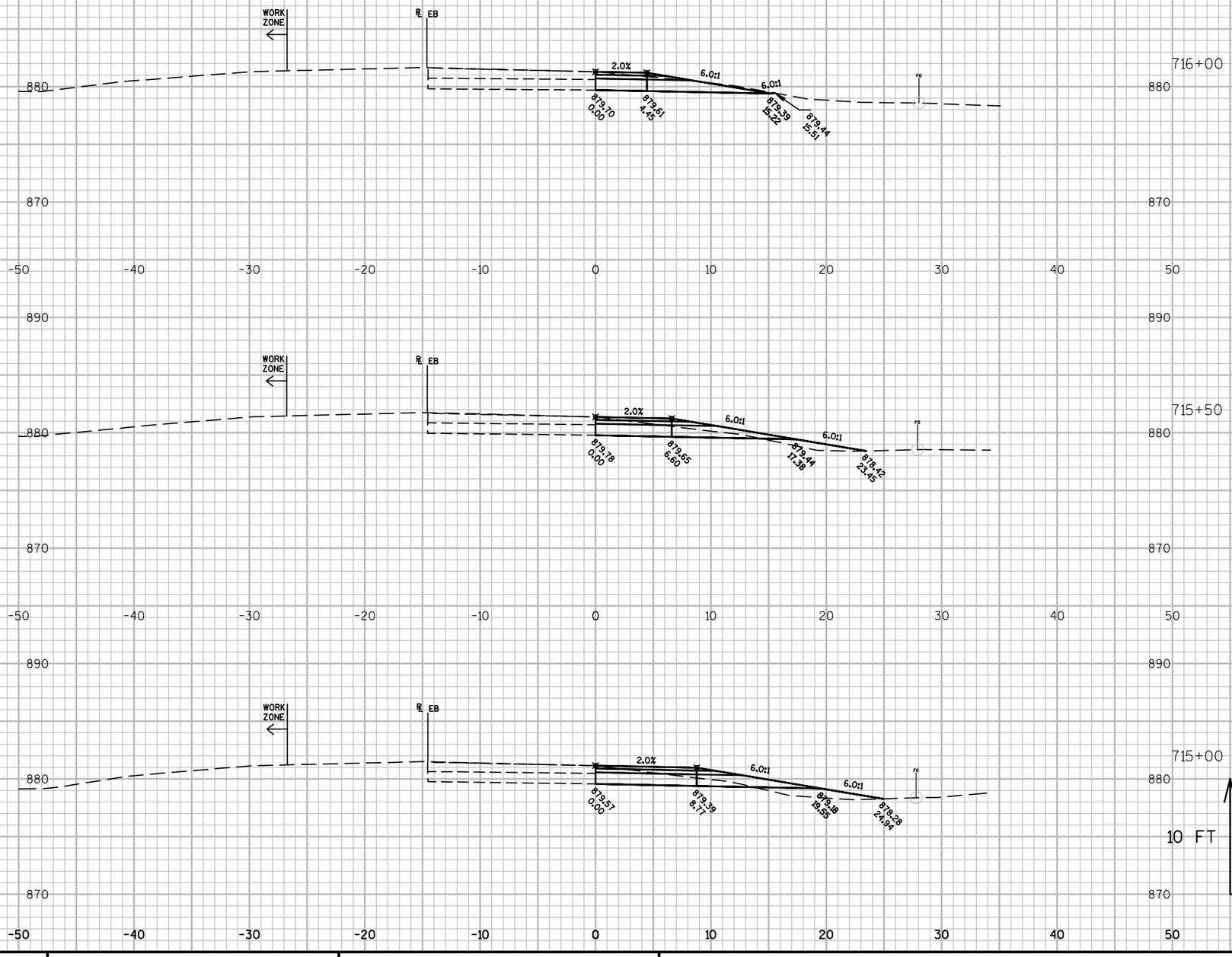
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PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CROSS SECTIONS: STAGE 2 - TEMPORARY LANES	SHEET	E

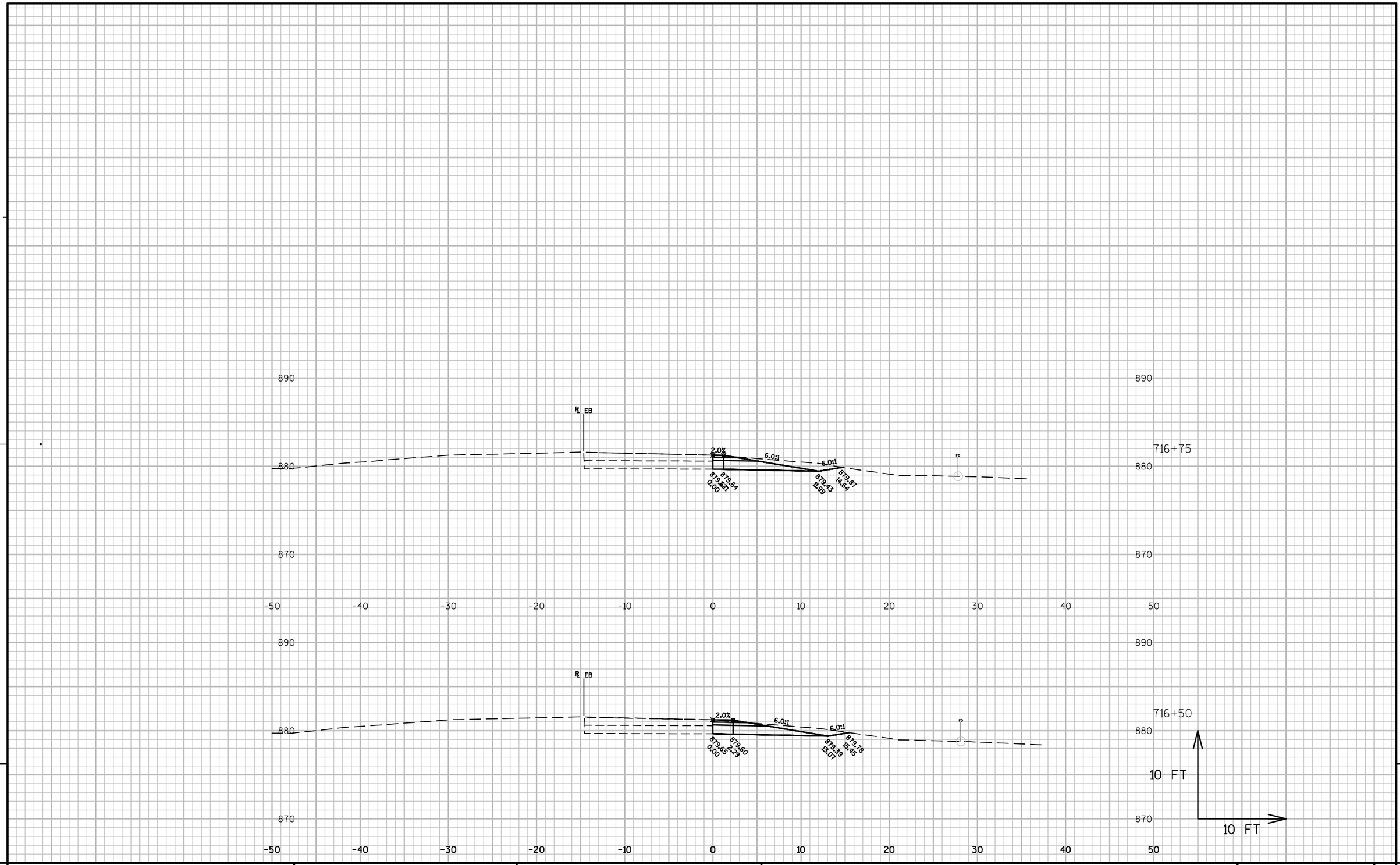
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WISDOT/CADDS SHEET 49



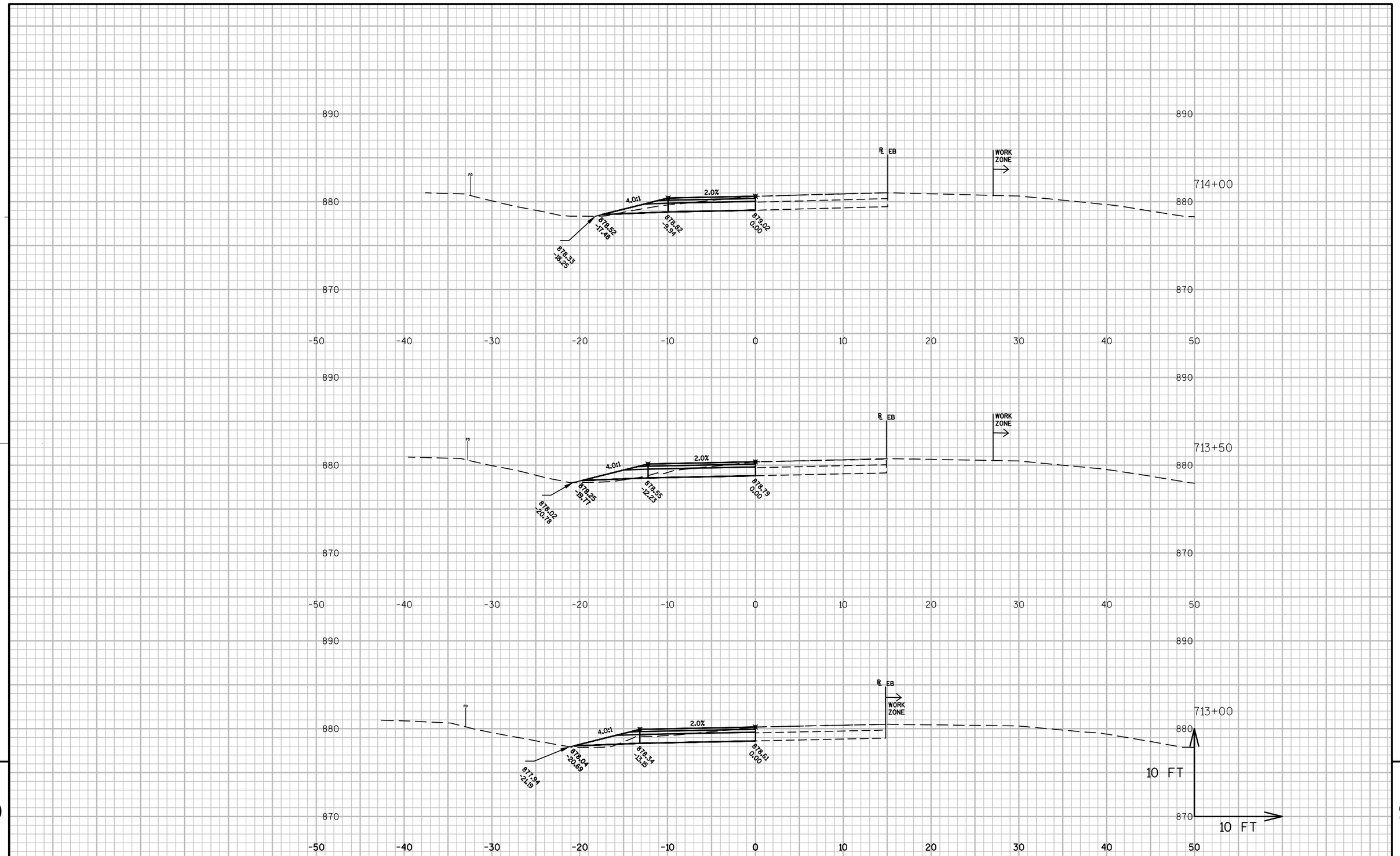
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PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CROSS SECTIONS: STAGE 2 - TEMPORARY LANES	SHEET	E

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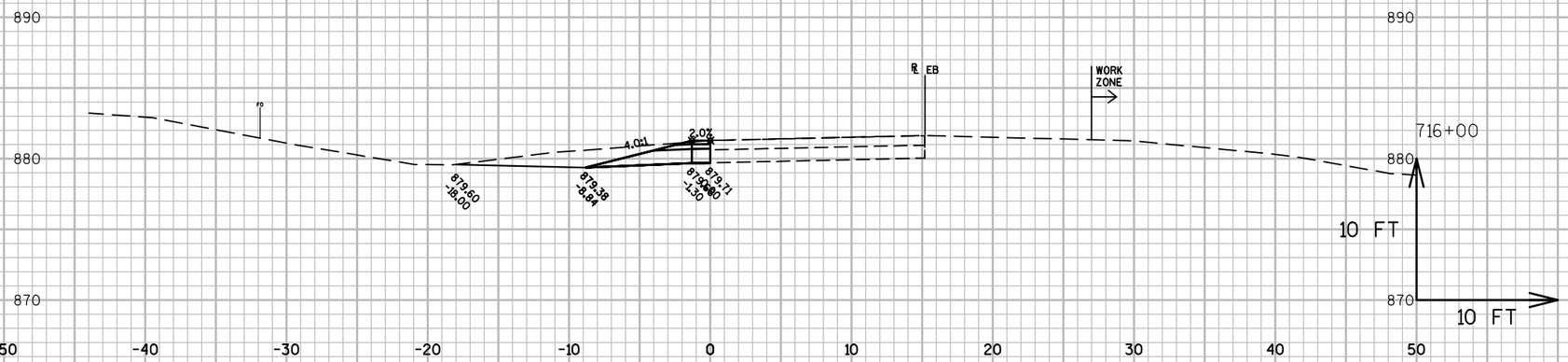
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PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CROSS SECTIONS: STAGE 3 - TEMPORARY LANES	SHEET 344	E



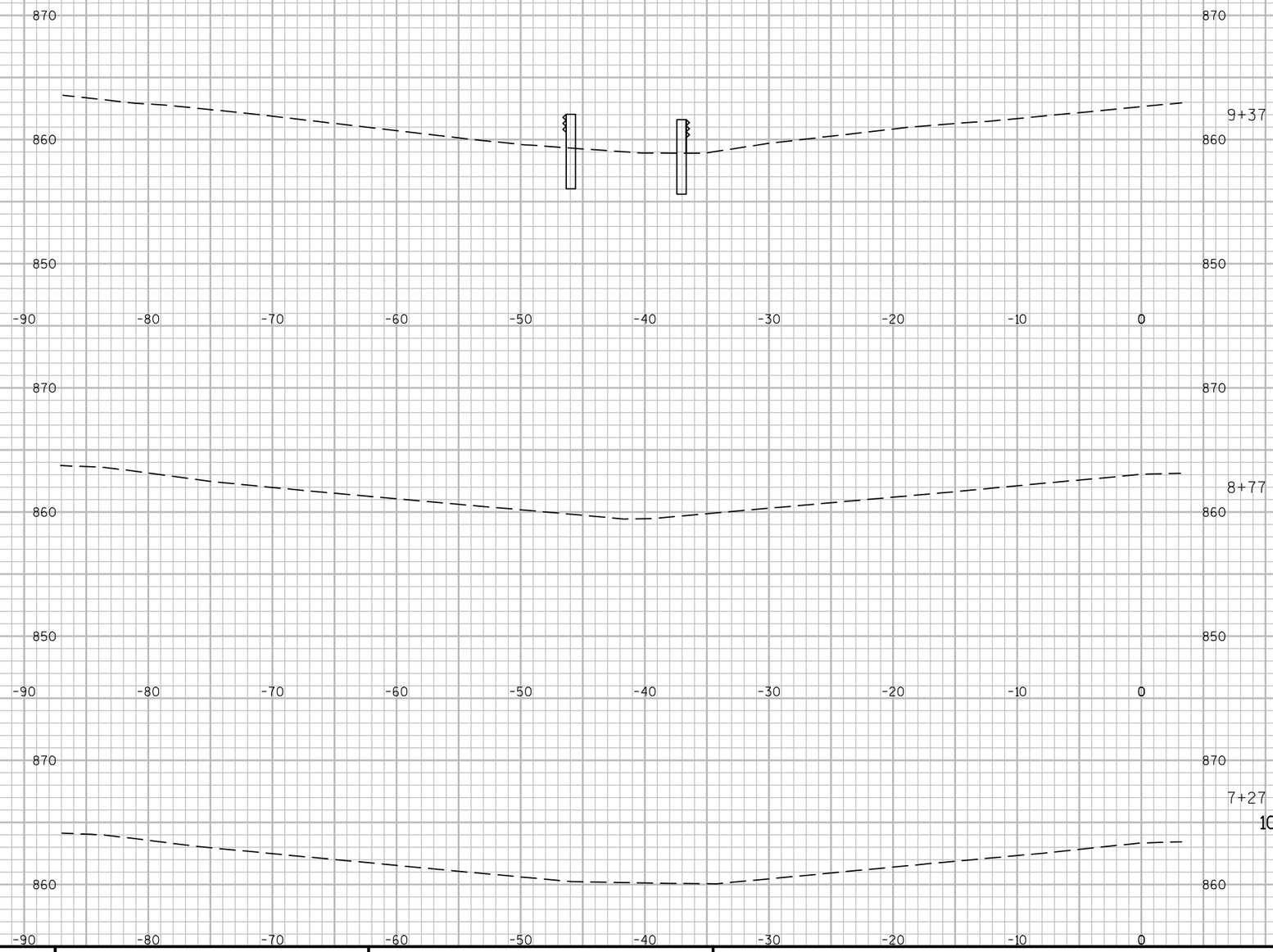
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WISDOT/CADDS SHEET 49



PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CROSS SECTIONS: STAGE 3 - TEMPORARY LANES	SHEET	E

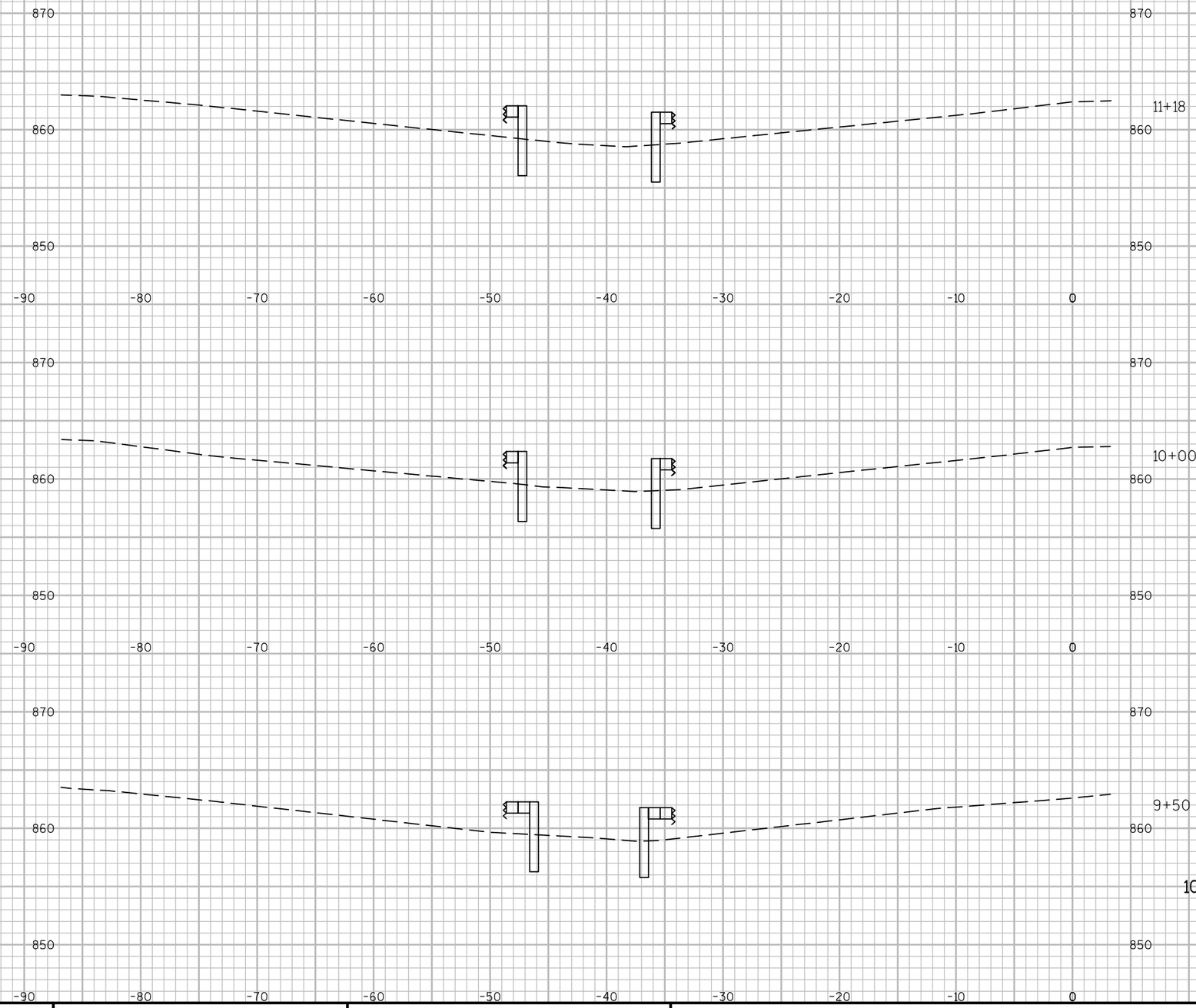
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PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CROSS SECTIONS: BULLNOSE TERMINALS ON USH 151	SHEET 347	E



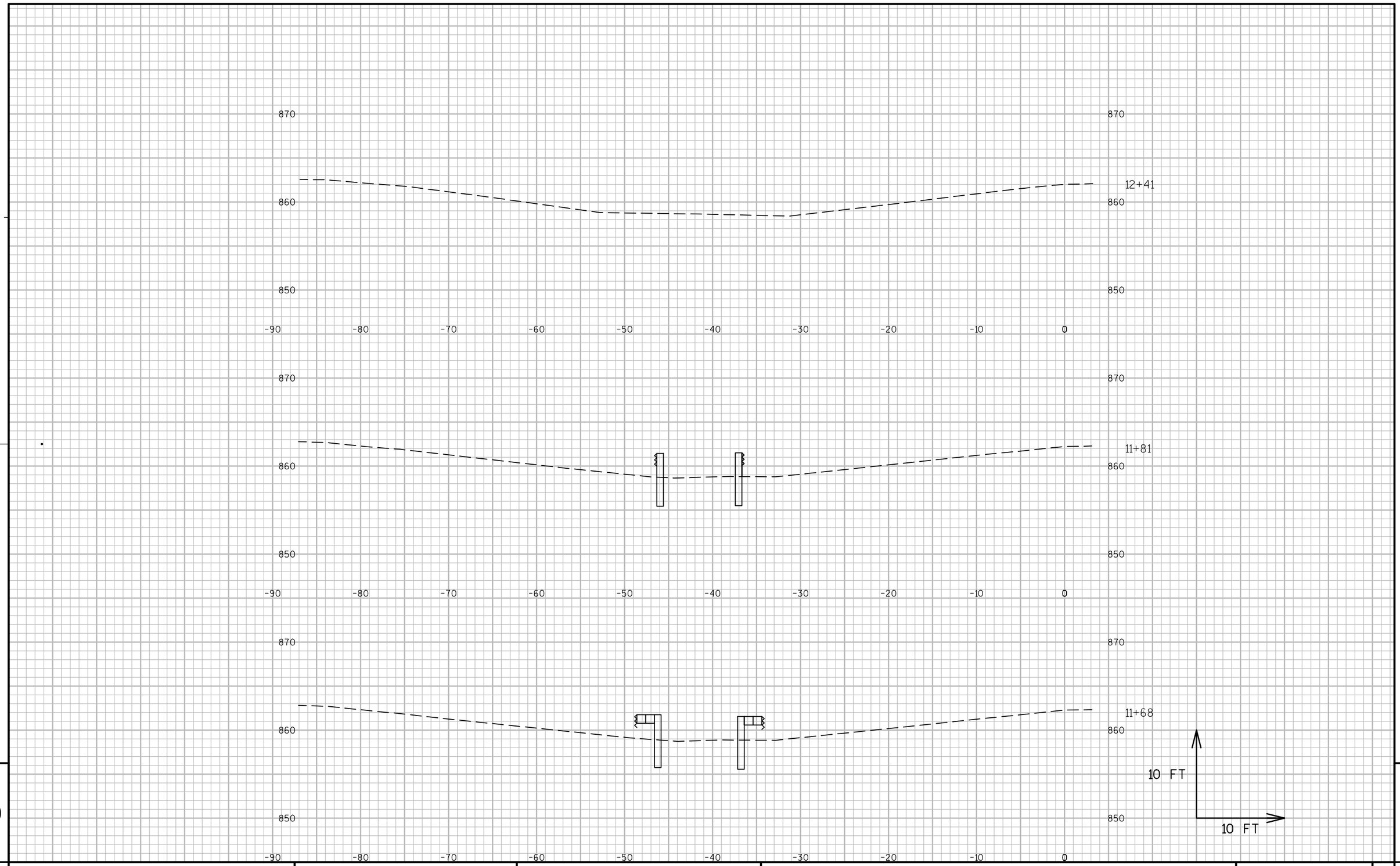
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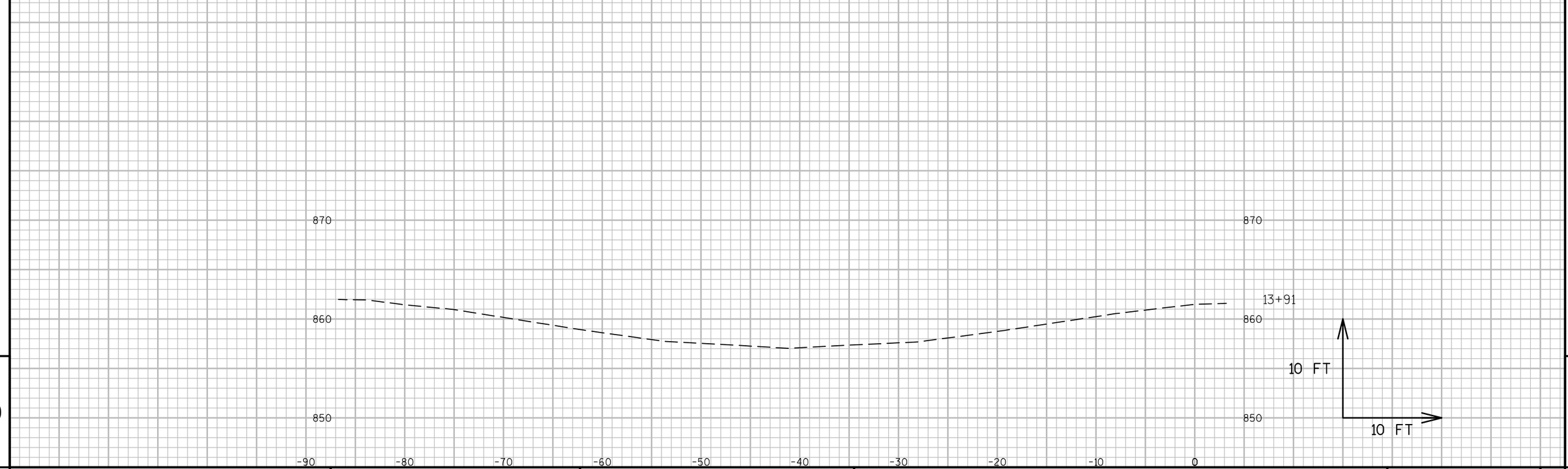
PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CROSS SECTIONS: BULLNOSE TERMINALS ON USH 151	SHEET	E

FILE NAME : N:\PDS\C3D\30600200\SHEETSPLAN\14-CROSS SECTIONS\CRASH WALL CROSS SECTIONS.DWG PLOT DATE : 2/13/2014 11:36 AM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CROSS SECTIONS: BULLNOSE TERMINALS ON USH 151	SHEET	E

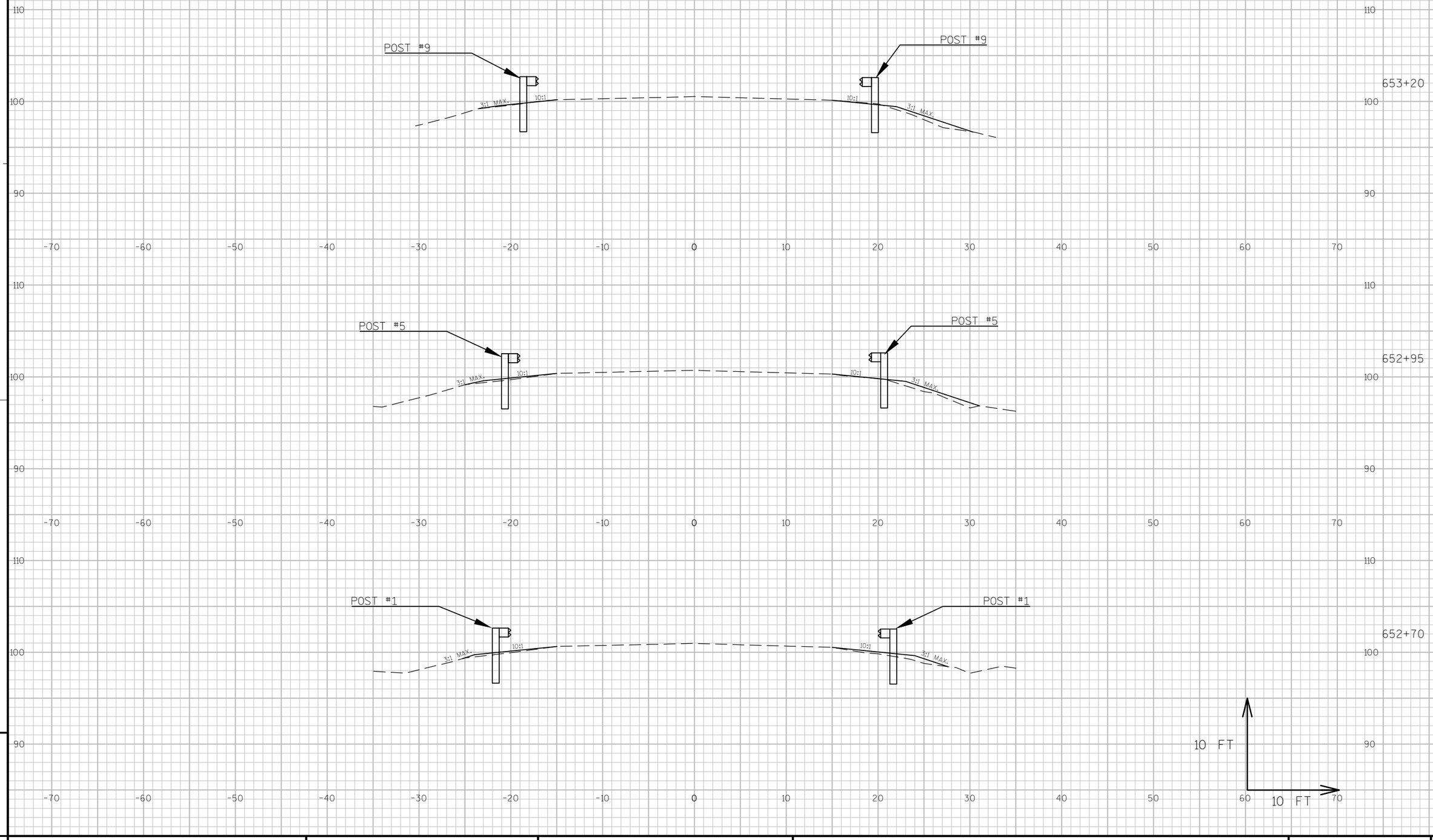


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PROJECT NO: 3060-02-70	HWY: STH 73	COUNTY: COLUMBIA	CROSS SECTIONS: BULLNOSE TERMINALS ON USH 151	SHEET 350	E

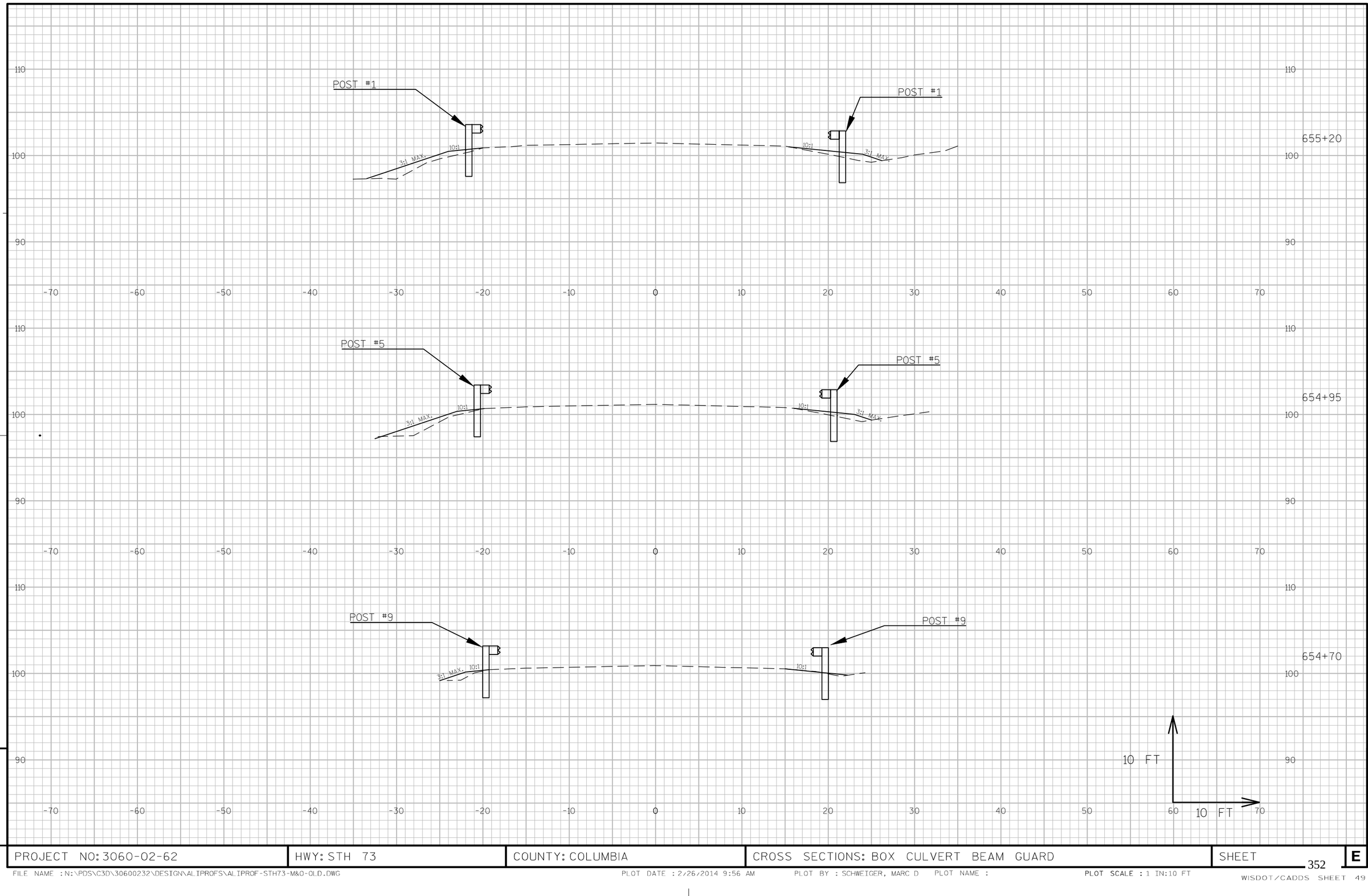
NOTE: ELEVATIONS SHOWN ARE NOT THE ACTUAL ELEVATIONS IN THE FIELD.



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PROJECT NO: 3060-02-62	HWY: STH 73	COUNTY: COLUMBIA	CROSS SECTIONS: BOX CULVERT BEAM GUARD	SHEET 351	E



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PROJECT NO: 3060-02-62	HWY: STH 73	COUNTY: COLUMBIA	CROSS SECTIONS: BOX CULVERT BEAM GUARD	SHEET 352	E

FILE NAME : N:\PDS\C3D\30600232\DESIGN\ALIPROFS\ALIPROF-STH73-M&O-OLD.DWG PLOT DATE : 2/26/2014 9:56 AM PLOT BY : SCHWEIGER, MARC D PLOT NAME : PLOT SCALE : 1 IN:10 FT

Notes

Wisconsin Department of Transportation

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