WKE

FEB 13

PROJECT ID: 1030-11-70
WITH: 1030-11-74 1030-11-77 1030-11-78 1030-25-77 1030-25-78

COUNTY: RACINE

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 = 356

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

N-S FREEWAY - CTH K INTERCHANGE

EAST FRONTAGE ROAD AND LOCAL ROADS

IH 94

RACINE COUNTY

STATE PROJECT NUMBER
1030-11-70

AS-BUILT PLAN

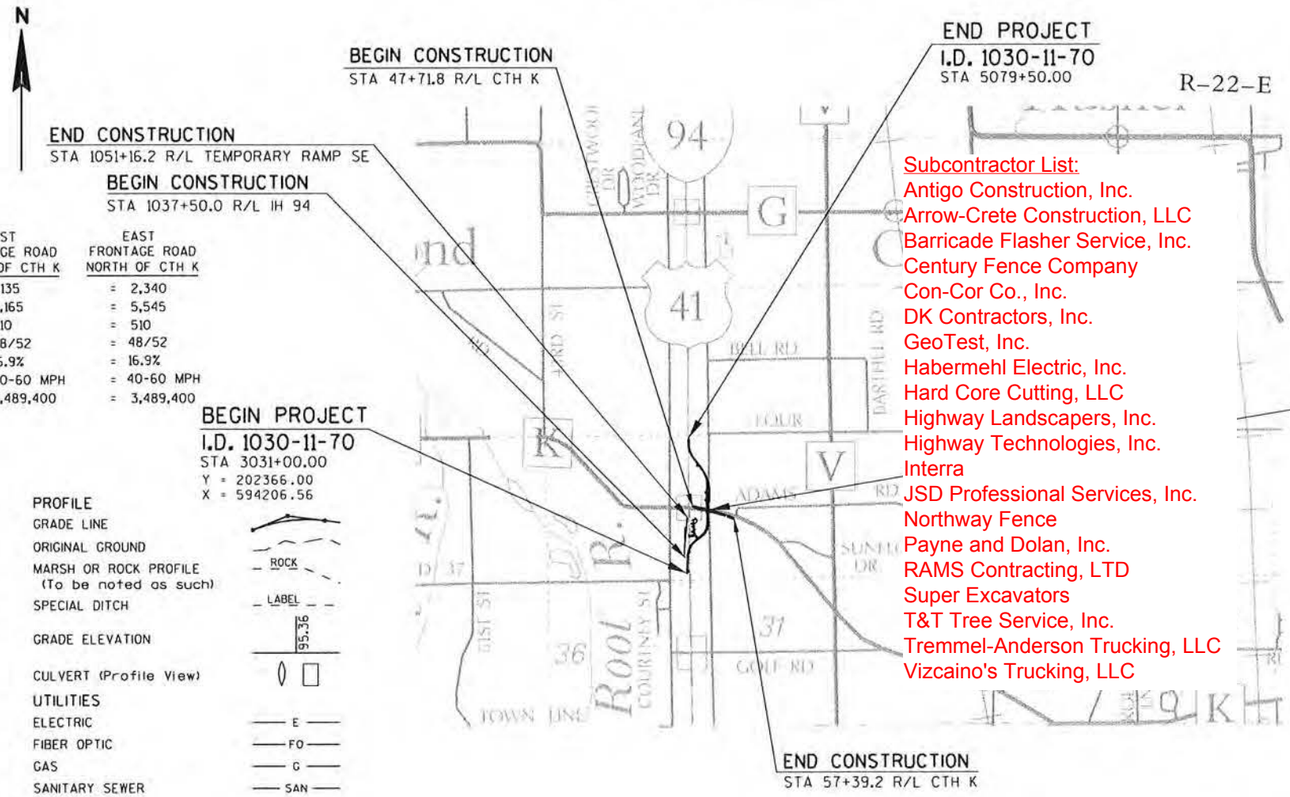
SUPERVISOR: Jason Roselle
PROJECT MANAGER: Mark Klipstein
PROJECT LEADER: Kerry Jones
CONTRACTOR: James Peterson Sons, Inc.
WORK STARTED 4/1/2013
WORK COMPLETED 11/22/2013

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1030-11-70	WISC 2013043	1

Section No. 2- Sheets 12, 14, 33, 45, 46, 47, 56, 60, 61, 69, 70, 73, 84, 85, 89, 90, 99, 100, 111, 114 replaced with revised sheets 12, 14, 33, 45, 46, 47, 56, 60, 61, 69, 70, 73, 84, 85, 89, 90, 99, 100, 111, 114. Sheets 15A and 71A added.
Section No. 3- Sheets 122-124, 126-128, 133, 137-140 replaced with revised sheets 122-124, 126-128, 133, 137-140. Sheets 123A, 142A and 142B added.
Section No. 5- Sheet 153 replaced with revised sheet 153. Sheets 156A and 156B added.
Section No. 7- Sheets 230A, 258A and 258B added.
Section No. 9- Sheets 288, 291, 313-316, 318-319 replaced with revised sheets 288, 291, 313-316, 318-319. Sheets 354A-354K added.



04



DESIGN DESIGNATION		CTH K	EAST FRONTAGE ROAD SOUTH OF CTH K	EAST FRONTAGE ROAD NORTH OF CTH K
A.A.D.T. 2010	=	9,100	= 1,135	= 2,340
A.A.D.T. 2035	=	11,935	= 2,165	= 5,545
D.H.V.	=	1750	= 510	= 510
D.D.	=	48/52	= 48/52	= 48/52
T.	=	16.9%	= 16.9%	= 16.9%
DESIGN SPEED	=	40-60 MPH	= 40-60 MPH	= 40-60 MPH
ESALS	=	12,775,000	= 3,489,400	= 3,489,400

CONVENTIONAL SYMBOLS

PLAN		PROFILE	
CORPORATE LIMITS		GRADE LINE	
PROPERTY LINE		ORIGINAL GROUND	
LOT LINE		MARSH OR ROCK PROFILE (To be noted as such)	ROCK
LIMITED HIGHWAY EASEMENT		SPECIAL DITCH	LABEL
EXISTING RIGHT OF WAY		GRADE ELEVATION	95.36
PROPOSED OR NEW R/W LINE		CULVERT (Profile View)	
SLOPE INTERCEPT		UTILITIES	
REFERENCE LINE		ELECTRIC	E
EXISTING CULVERT		FIBER OPTIC	FO
PROPOSED CULVERT (Box or Pipe)		GAS	G
COMBUSTIBLE FLUIDS	CAUTION	SANITARY SEWER	SAN
		STORM SEWER	SS
		TELEPHONE	T
MARSH AREA		WATER	W
		UTILITY PEDESTAL	
		POWER POLE	
WOODED OR SHRUB AREA		TELEPHONE POLE	

LAYOUT
SCALE 0 1/2 MI.

TOTAL NET LENGTH OF CENTERLINE = 1.006 MI.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), RACINE COUNTY, NAD 1983 (97)

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (91) (NAVD 88 (91))

Subcontractor List:
Antigo Construction, Inc.
Arrow-Crete Construction, LLC
Barricade Flasher Service, Inc.
Century Fence Company
Con-Cor Co., Inc.
DK Contractors, Inc.
GeoTest, Inc.
Habermehl Electric, Inc.
Hard Core Cutting, LLC
Highway Landscapers, Inc.
Highway Technologies, Inc.
Interra
JSD Professional Services, Inc.
Northway Fence
Payne and Dolan, Inc.
RAMS Contracting, LTD
Super Excavators
T&T Tree Service, Inc.
Tremmel-Anderson Trucking, LLC
Vizcaino's Trucking, LLC

ORIGINAL PLANS PREPARED BY
BLOOM COMPANIES, LLC

WISCONSIN
DAVID J. TAPIA
34755-006
MENOMONEE FALLS, WI
PROFESSIONAL ENGINEER

8/25/12 (Date) (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	WISDOT
Designer	BLOOM COMPANIES, LLC
Project Manager	JOSHUA LEVEQUE
Regional Examiner	
Regional Supervisor	WAFA ELOAQ
C.O. Examiner	CYB

APPROVED FOR THE DEPARTMENT
DATE: 8/25/12 (Signature)

E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\010101_ti.dgn
PLOT DATE : 24-AUG-2012 09:31
PLOT BY : cfranzen
PLOT NAME :
PLOT SCALE : 2640

WISDOT/CADDS SHEET 10

UTILITY CONTACTS

AT&T CORPORATION
P.0. BOX 896
CLIFTON, IL 60937
RICHARD MEYERS
(847) 420-9115
WILLIAM KOEHIG (JMC ENGINEERING)
(630) 215-7567

AT&T LONG DISTANCE
866 ROCK CREEK ROAD
PLANO, IL 60545
CAL DONAHUE
(847) 420-9115
cdonahue@ems.att.com

AT&T WISCONSIN
4420 COUNTY LINE ROAD
RACINE, WISCONSIN 53403
KEITH ROSENBERG
(262) 636-0787

CALEDONIA DISTRICT #1 MANAGER
333 4-1/2 MILE ROAD
RACINE, WI 53402
BOB LUI
(262) 681-3900

LEVEL 3 COMMUNICATIONS, LLC
ONE TECHNOLOGY CENTER
MAIL DROP TC-95
100 CINCINNATI AVE.
MARSHA KIDD
(918) 547-0029
level3.networklocations@level3.com

TIME WARNER CABLE
1320 N. MARTIN LUTHER KING JR. DRIVE
MILWAUKEE, WI 53212
STEVE CRAMER
(414) 277-4045
steve.cramer@twcable.com

WE ENERGIES-ELECTRIC
333 W.EVERETT STREET - A279
MILWAUKEE, WI 53203
DAN SANDE
(414) 221-4578
dan.sande@we-energies.com

WE ENERGIES - (GAS OPERATIONS)
333 W.EVERETT STREET - A279
MILWAUKEE, WI 53203
DAN SANDE
(414) 221-4578
dan.sande@we-energies.com
CARL DRECHSLER (FIELD)
(262) 552-3428

WISDOT ATR PULL BOXES
935 S. 60TH STREET
WEST ALLIS, WI 53214
CLIFF SEROWSKI
(414) 266-1157
clifford.serowski@dot.wi.gov

WISDOT SIGNALS
141 NW BARSTOW STREET
P.O. BOX 798
WAUKESHA, WI 53187-0798
ANDREW DIRKS
(262) 548-8642
andrew.dirks@dot.wi.gov

WISDOT STOC
433 W. ST PAUL AVE #300
MILWAUKEE, WI 53203
DONALD SCHELL
(414) 227-2148
donald.schell@dot.wi.gov

WISDOT TRAFFIC LIGHTING
141 NW BARSTOW STREET
P.O. BOX 798
WAUKESHA, WI 53187-0798

STATE AGENCIES

WISDOT SOUTHEAST REGION
141 NW BARSTOW STREET
P.O. BOX 798
WAUKESHA, WI 53187-0798
MR. JOSHUA LEVEQUE, PROJECT MANAGER
OFFICE (262) 548-5926 CELL (414) 750-2029
joshua.leveque@dot.wi.gov

WISCONSIN DEPARTMENT OF NATURAL RECOURCES
DISTRICT DNR AREA LIASON
141 NW BARSTOW STREET, ROOM 180
WAUKESHA WI, 53188
CRAIG WEBSTER,
WATER RESOURCE MANAGEMENT SPECIALIST
(262) 574-2141
craig.webster@wisconsin.gov

WISDOT SOUTHEAST REGION
141 NW BARSTOW STREET
P.O. BOX 798
WAUKESHA, WI 53187
KARLA LEITHOFF, WETLAND ECOLOGIST
karla.leithoff@dot.wi.gov

OTHER AGENCIES

VILLAGE OF CALEDONIA
6922 NICHOLSON ROAD
CALEDONIA, WI 53108
MIKE HAYEK
(262) 835-6423
mhayek@caledoniawi.com

RACINE COUNTY DEPARTEMENT OF PUBLIC WORKS
14200 WASHINGTON AVENUE
STURTEVANT, WI 53177
JEFF KATZ
(262) 886-8440
jeff.katz@goracine.org

CALEDONIA STORM SEWER UTILITY COMMISSION
6922 NICHOLSON ROAD
CALEDONIA, WI 53108
TONY BUNKELMAN
(262) 835-6416
abunkelman@caledoniawi.com

TOWN OF RAYMOND TOWN CLERK
2255 S. 76TH STREET
FRANKSVILLE, WI 53126
MS. LINDA TERRY
(262) 835-4426
townofraymond@core.com

BLOOM COMPANIES
10501 W. RESEARCH DRIVE, SUITE 100
MILWAUKEE, WI 53226
DAVID TAPIA
(414) 292-4538
dtapia@bloomcos.com

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
PLAN DETAILS
EROSION CONTROL
STORM SEWER
EXISTING SIGNING
PERMANENT SIGNING
LIGHTING PLAN
PAVEMENT MARKING
STAGED CONSTRUCTION / TRAFFIC CONTROL
DETOUR PLAN
FENCING
ALIGNMENT PLAN

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.

DIGGERS HOTLINE

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

GENERAL NOTES

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. SEE UTILITY OCCUPATION PLANS FOR ADDITIONAL INFORMATION.

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

NO TREES OR SHRUBS SHALL BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

ALL HOLES OR OPENINGS BELOW SUBGRADE RESULTING FROM ABANDONMENT OR REMOVAL OF EXISTING STRUCTURES SHALL BE FILLED WITH GRANULAR BACKFILL. GRANULAR BACKFILL IS INCIDENTAL TO WORK.

PRIOR TO ORDERING DRAINAGE PIPES AND STRUCTURES, THE CONTRACTOR SHALL VERIFY RELATED DRAINAGE INFORMATION IN THE PLANS AND PROVIDE DOCUMENTATION TO ENGINEER IN ACCORDANCE WITH THE SPECIFICATIONS.

INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHOWN ON THE PLAN MAY BE ADJUSTED BY THE ENGINEER TO FIT FIELD CONDITIONS.

REINFORCED CONCRETE APRON ENDWALLS AND ADJOINING TWO SECTIONS OF CONCRETE PIPE SHALL BE TIED TOGETHER AS SHOWN ON THE STANDARD DETAIL DRAWINGS AND AS LOCATED IN THE MISCELLANEOUS QUANTITIES. JOINT TIES SHALL BE INCIDENTAL ITEMS INCLUDED IN THE COST OF THE CONCRETE PIPE.

HMA PAVEMENT AND CONCRETE DRIVEWAYS AND/OR PARKING LOTS SHALL BE SAWCUT AT THE MATCHLINE AS SHOWN ON THE PLAN & PROFILES OR AS DIRECTED BY THE ENGINEER.

A SAWED JOINT IS REQUIRED WHERE NEW HMA PAVEMENT SURFACE MEETS EXISTING ASPHALTIC CONCRETE SURFACE.

EXISTING DRIVEWAYS AND FIELD ENTRANCES SHALL BE RESTORED IN KIND AS DIRECTED BY THE ENGINEER IN THE FIELD AND AT THE LOCATION DETERMINED BY THE ENGINEER.

TEMPORARY STORAGE OF ANY EXCAVATED MATERIAL WILL NOT BE PERMITTED IN WETLANDS.

TYPICAL SECTIONS SHOWN INCLUDE THE THICKNESS OF TOPSOIL WHERE REQUIRED.

CROSS SECTIONS SHOW SELECT SUB BASE LAYER.

THE QUANTITY OF SALVAGED TOPSOIL IS COMPUTED FROM MEASUREMENTS TAKEN:
A) ALONG THE HIGHWAY'S OUTSIDE SLOPE AREAS, BETWEEN ITS SUBGRADE SHOULDER OR BACK OF CURB AND A POINT POSTIONED 5-FEET PAST THE SLOPE INTERCEPT INDICATED BY THE CROSS SECTIONS (TO ALLOW FOR SLOPE ROUNDING); PLUS
B) WITHIN THE HIGHWAY MEDIAN AREAS BETWEEN THE INSIDE SHOULDER SUBGRADE OR BACK OF CURB.

BROKEN CONCRETE CONTAINING RE-BAR SHALL NOT BE USED AS LIGHT RIPRAP OR MEDIUM RIPRAP

CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE. CURB AND GUTTER RADII ARE MEASURED TO THE FLANGE.

CURB HEIGHTS AT THE END OF CURB AND GUTTER SHALL BE TAPERED FROM 0 TO 4 INCHES OR 0 TO 6 INCHES IN 6 FEET.

CONCRETE MEDIAN SLOPED NOSE SHALL BE CONSTRUCTED FOR ALL MEDIAN OPENINGS AT INTERSECTIONS WITH CURB & GUTTER.

SUBSURFACE EXPLORATION REPORTS WERE PREPARED BY MIDWEST ENGINEERING SERVICES, INC. DATED JANUARY 26,2007. THESE REPORTS ARE AVAILABLE BY CONTACTING WISDOT (BILL MOHR414-220-5444)

DISTURBED AREAS WITHIN THE RIGHT OF WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOUDER POINTS, SHALL BE TOPSOILED FERTILIZED AND SEEDED OR SODDED WITHIN 7 DAYS AFTER PLACEMENT OF SALVAGED TOPSOIL AS DIRECTED BY THE ENGINEER.

WISDOT WILL FURNISH THE CONTRACTOR A MONUMENT WHICH SHALL BE SET IN THE STRUCTURES AS DESIGNATED BY THE ENGINEER IN THE FIELD.

REMOVAL OF EROSION CONTROL DEVICES IS INCLUDED IN THE COST OF THEIR RESPECTIVE BID ITEMS.

FERTILIZER SHALL NOT BE USED NEAR NAVIGATABLE WATERWAYS OR WETLANDS.

COORDINATE WITH RACING COUNTY PLANNING AND DEVELOPMENT DIRECTOR, JULIE ANDERSON, AT (262) 886-8470 TO PERPETUATE SECTION CORNERS 10 DAYS PRIOR TO BEGINNING OF CONSTRUCTION OPERATIONS.

BASE AGGREGATE DENSE QUANTITIES WERE COMPUTED USING 2.1 TONS/CY FOR 3/4-INCH AND 1 1/4-INCH.

PLACE SEEDING MIXTURE NO 60 & FERTILIZER B ON EMBANKMENT SLOPES AJACENT TO WETLAND AREAS

ALL TYPES OF HMA PAVEMENT SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYERS AND GRADATIONS:

TOTAL LAYER PAVEMENT THICKNESS	LAYERS	NOMINAL MAXIMUM SIZE GRADATION
4"	1 3/4" UPPER LAYER	12.5 mm
	2 1/4 LOWER LAYER	19.0 mm
5"	1 3/4" UPPER LAYER	12.5 mm
	3 1/4" LOWER LAYER	19.0 mm
5.5"	1 3/4" UPPER LAYER	12.5 mm
	3 3/4" UPPER/LOWER LAYER	19.0 mm
7.5"	1 3/4" UPPER LAYER	12.5 mm
	2 3/4" UPPER/LOWER LAYER	12.5 mm
	2 3/4" LOWER LAYER	19.0 mm

THE FOLLOWING PLANS WERE PREPARED FOR THIS PROJECT BY: BLOOM COMPANIES, LLC:

RAS NATIONAL PREPARED: EROSION CONTROL, STORM SEWER, STORM WATER PONDS, PERMANENT SIGNING AND PAVEMENT MARKING.

STANDARD ABBREVATIONS

AC	ACRE
AGG	AGGREGATE
AH	AHEAD
ASPH	ASPHALTIC
BK	BACK
BM	BENCH MAK
CL OR C/L	CENTER OR CONSTUCTION LINE
Δ	CENTRAL ANGLE OR DELTA
CE	COMMERCIAL ENTRANCE
CONC	CONCRETE
CP	CULVERT PIPE
CY	CUBIC YARD
CPRC	CULVERT PIPE REINFORCED CONCRETE
CPT	CULVERT PIPE TEMPORARY
D	DEGREE OF CURVE
DIA	DIAMETER
DISCH	DISCHARGE
EL OR ELEV	ELEVATION
EW	ENDWALL
EBS	EXCAVATION BELOW SUBGRADE
FF	FACE TO FACE
FE	FIELD ENTRANCE
FS	FULL SUPERELEVATION
FT	FOOT
HES	HIGH EARLY STRENGTH
HMA	HOT MIX ASPHALT
INV	INVERT
LT	LEFT
LHF	LEFT HAND FORWARD
L	LENGTH OF CURVE
LF	LINEAR FOOT
MIN	MINIMUM
ML OR M/L	MATCHLINE
NC	NORMAL CROWN
PAVT	PAVEMENT
PLE	PERMANENT LIMITED EASEMENT
PCC	POINT OF COMPOUND CURVE
PC	POINT OF CURVE
PI	POINT OF INTERSECTION
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
PE	PRIVATE ENTRANCE
PL	PROPERTY LINE
R	RADIUS OF CURVE
RL OR R/L	REFERENCE LINE
REINF	REINFORCED
REQD	REQUIRED
RC	REVERSE CROWN
RT	RIGHT
RHF	RIGHT HAND FORWARD
R/W	RIGHT OF WAY
SALV	SALVAGED
SF	SQUARE FOOT
SY	SQUARE YARD
SDD	STANDARD DETAIL DRAWING
STA	STATION
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
SSPRCHE	STORM SEWER PIPE REINFORCED CONCRETE (HORIZONTAL ELLIPTICAL)
SE	SUPER ELEVATION
T	TANGENT
TEMP	TEMPORARY
TLE	TEMPORARY LIMITED EASEMENT
TYP	TYPICAL
VPCC	VERTICAL POINT OF COMPOUND CURVE
VPC	VERTICAL POINT OF CURVE
VPI	VERTICAL POINT OF INTERSECTION
VPRC	VERTICAL OPINT OF REVERSE CURVE
VPT	VERTICAL POINT OF TANGENCY

2

2

TOWN OF RAYMOND

END PROJECT
ID 1030-11-70
STA 5079+50.00

4 MILE RD.

CONSTRUCTION UNDER
PROJECT ID 1030-11-74

WEST FRONTAGE ROAD

NE POND

END CONSTRUCTION
STA 1051+16.23 R/L TEMPORARY RAMP SE

BEGIN CONSTRUCTION
STA 47+71.77 R/L CTH K

EQUATION

STA 3056+18.38 R/L EFR BK =
STA 5051+56.46 R/L EFR AH

ADAMS RD/ A&W
ACCESS RD

END CONSTRUCTION
STA 57+39.24 R/L CTH K

CTH K

SW POND

SE RAMP

MICHEL
COURT

3 MILE RD.

EAST FRONTAGE ROAD

ADAMS RD.

VILLAGE OF CALEDONIA

BEGIN CONSTRUCTION
STA 1037+50.00 R/L IH 94

NICHOLAS RD.

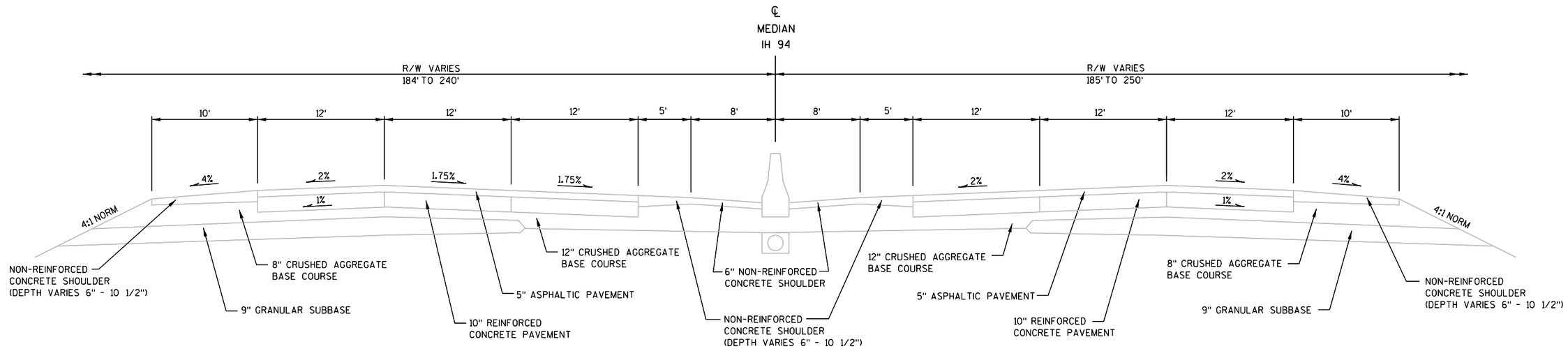
IH 94 SB

IH 94 NB

BEGIN PROJECT
I.D. 1030-11-70
STA 3031+00.00

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PROJECT OVERVIEW	SCALE, FEET 0 300 600	SHEET 4	E

2

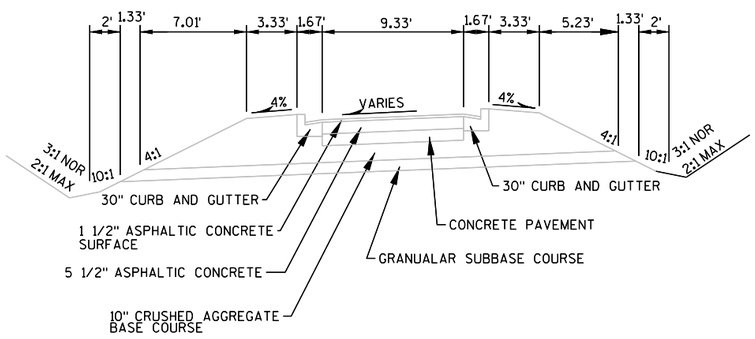


TYPICAL EXISTING SECTION

IH 94

STA 1024+00 TO STA 1093+00

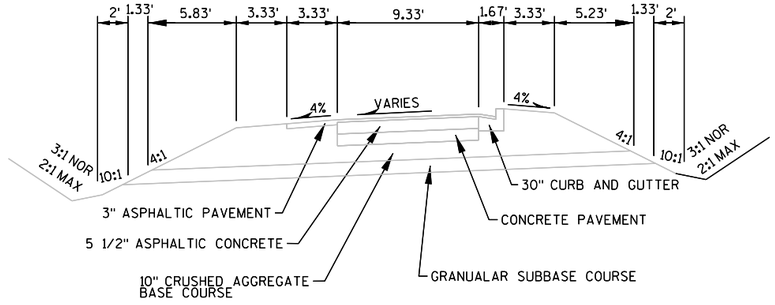
PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	TYPICAL EXISTING SECTIONS	SCALE:NTS	SHEET 5	E



TYPICAL EXISTING SECTION
RAMPS

SCISSOR RAMP AREAS
CURB AND GUTTER BOTH SIDES

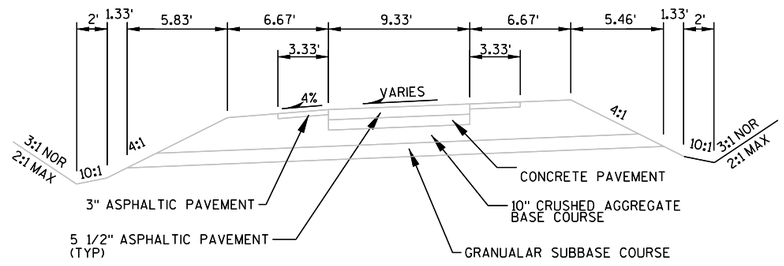
STA 1032+12 TO STA 1034+70 (IH 94)
STA 1032+92 TO STA 1033+68 (IH 94)
STA 1065+93 TO STA 1066+43 (IH 94)



TYPICAL EXISTING SECTION
RAMPS

BETWEEN MAINLINE AND SCISSOR RAMP AREAS
CURB AND GUTTER ONE SIDE

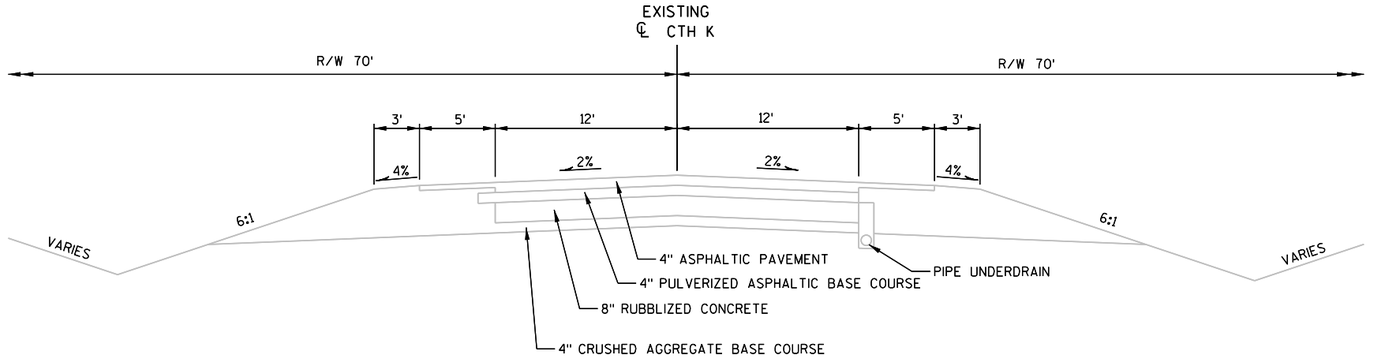
STA 1031+85 TO STA 1032+92 (IH 94)
STA 1038+68 TO STA 1034+53 (IH 94)
STA 1066+43 TO STA 1066+94 (IH 94)



TYPICAL EXISTING SECTION
RAMPS

SCISSOR RAMP AREAS
WITHOUT CURB AND GUTTER

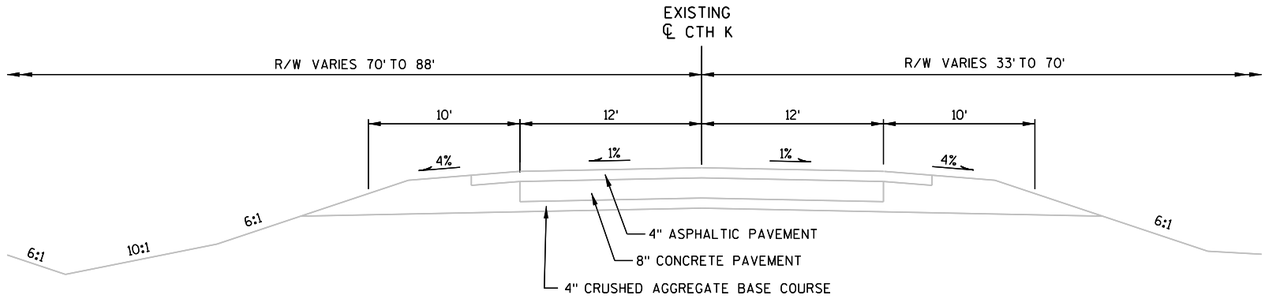
STA 1030+80 TO STA 1031+85 (IH 94)
STA 1034+53 TO STA 1042+37 (IH 94)
STA 1034+70 TO STA 1042+37 (IH 94)



TYPICAL EXISTING SECTION

CTH K

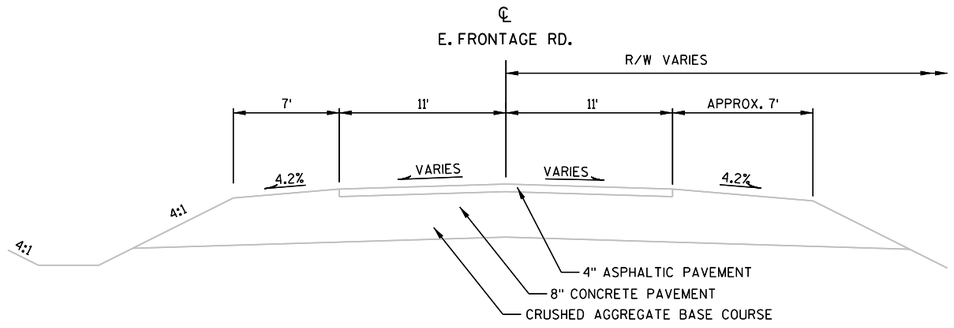
STA 52+00 TO STA 57+39



TYPICAL EXISTING SECTION

CTH K

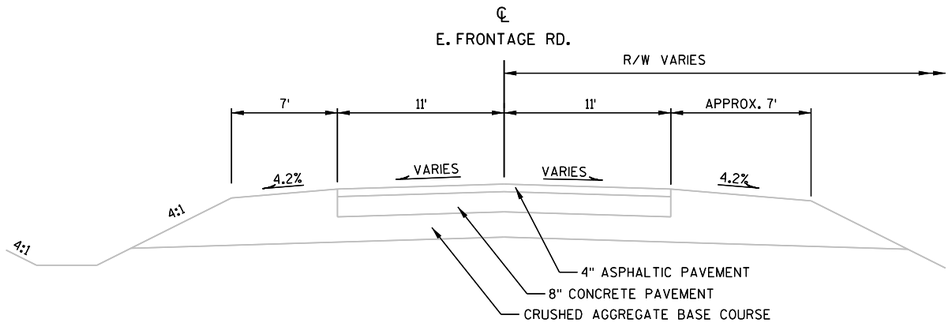
STA 47+72 TO STA 52+00



TYPICAL EXISTING SECTION

EAST FRONTAGE ROAD

STA 1051+00 (IH 94) TO STA 1060+00 (IH 94)

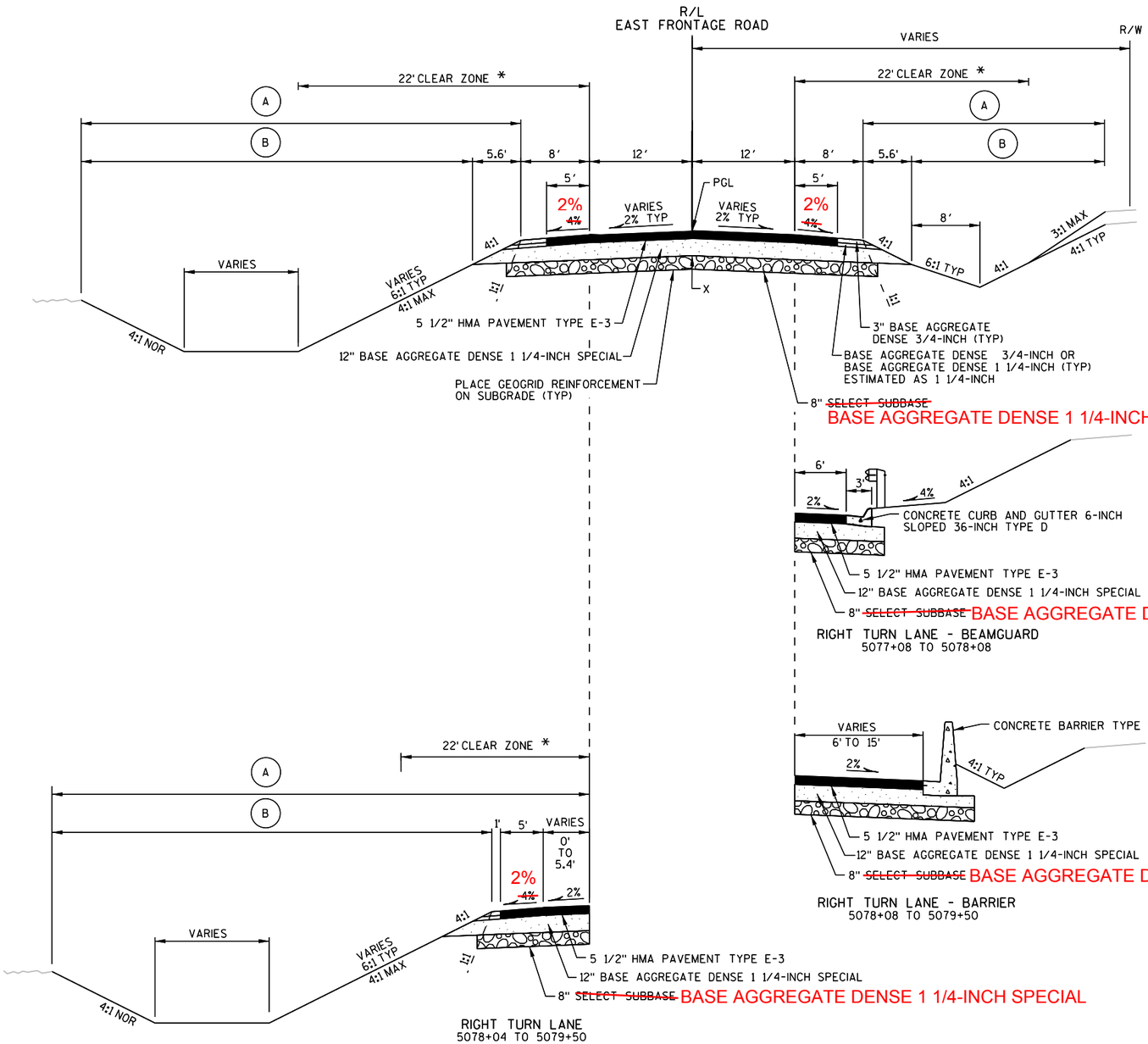


TYPICAL EXISTING SECTION

EAST FRONTAGE ROAD

STA 1043+00 (IH 94) TO STA 1051+00 (IH 94)
STA 1060+00 (IH 94) TO STA 1079+50 (IH 94)

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	TYPICAL EXISTING SECTIONS	SCALE: NTS	SHEET 7	E



* 34' CLEARZONE
- STA 3031+00 TO STA 3037+44
- STA 5078+30 TO STA 5079+50

LEGEND

(A) SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

(B) 4" SALVAGED TOPSOIL & MULCHING

NOTE

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

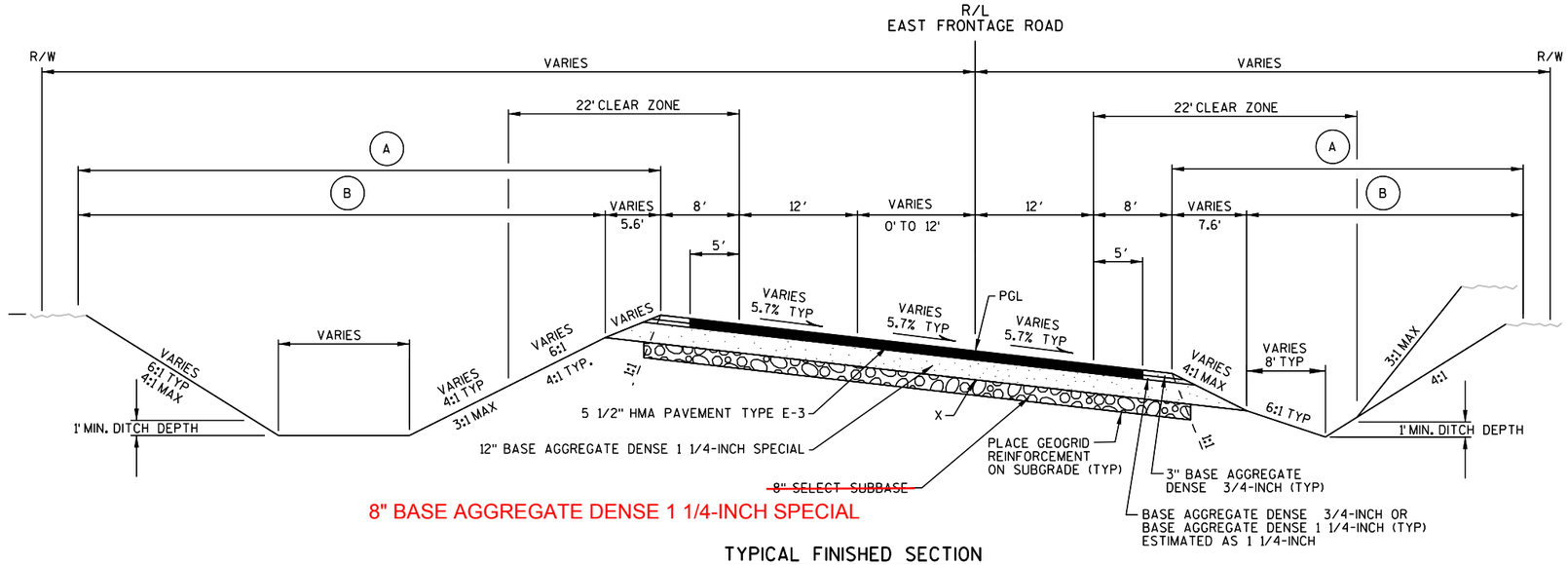
X = POINT REFERRED TO ON CROSS SECTION

TYPICAL FINISHED SECTION
EAST FRONTAGE ROAD

STA 3031+00 TO STA 3037+89
STA 5067+45 TO STA 5079+50

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	TYPICAL SECTIONS	SCALE: NTS	SHEET 8	E

2



8" BASE AGGREGATE DENSE 1 1/4-INCH SPECIAL

TYPICAL FINISHED SECTION
EAST FRONTAGE ROAD

STA 3037+89 TO STA 3045+64

LEGEND

(A) SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

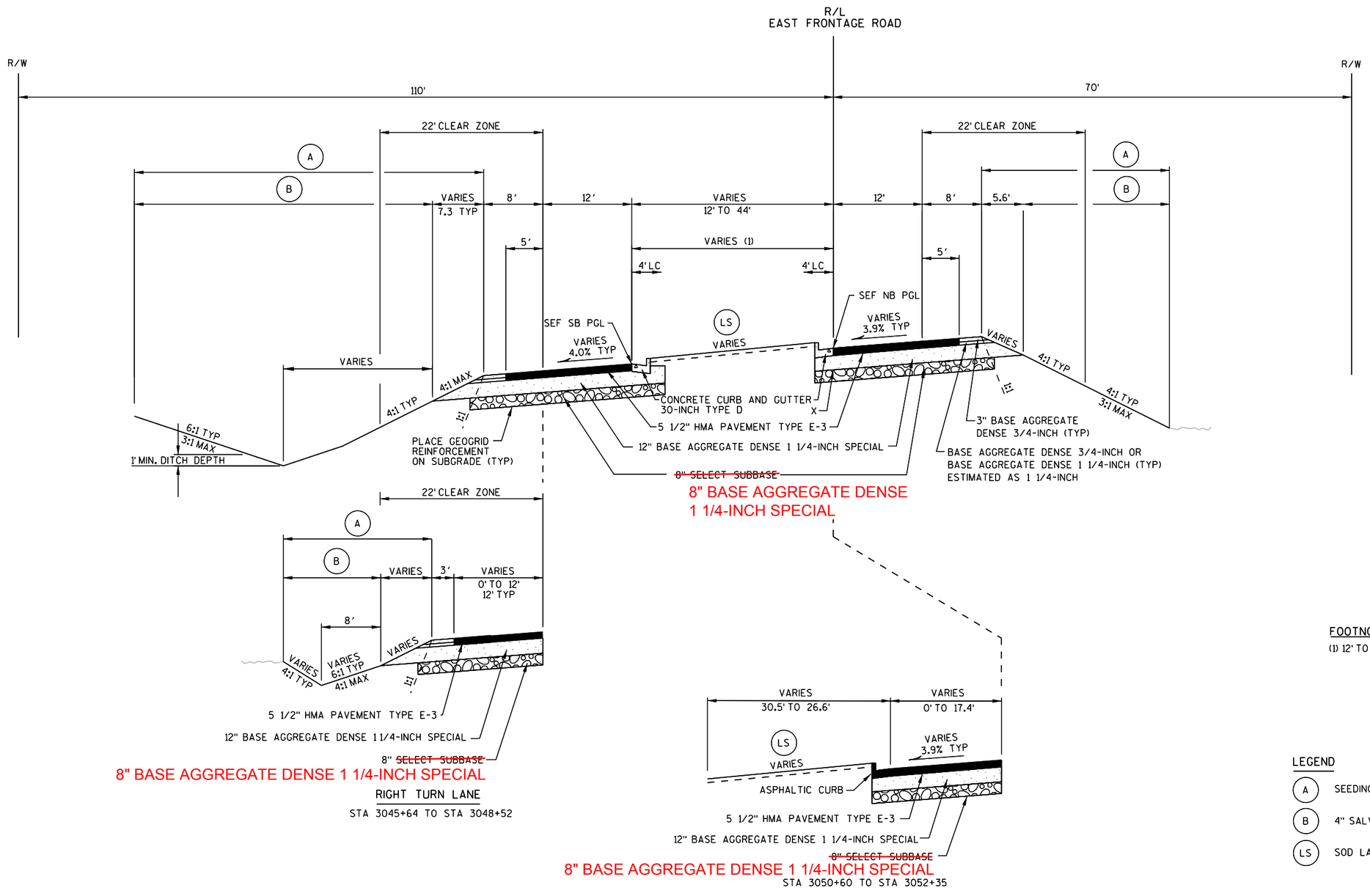
(B) 4" SALVAGED TOPSOIL & MULCHING

NOTE

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

X = POINT REFERRED TO ON CROSS SECTION

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	TYPICAL SECTIONS	SCALE: NTS	SHEET 9	E



TYPICAL FINISHED SECTION
EAST FRONTAGE ROAD

STA 3045+64 TO STA 3052+35

FOOTNOTES

(1) 12' TO 32.5', STA 3045+64 TO 3050+60

LEGEND

- (A) SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B
- (B) 4" SALVAGED TOPSOIL & MULCHING
- (LS) SOD LAWN, FERTILIZER TYPE B AND 4" SALVAGED TOPSOIL

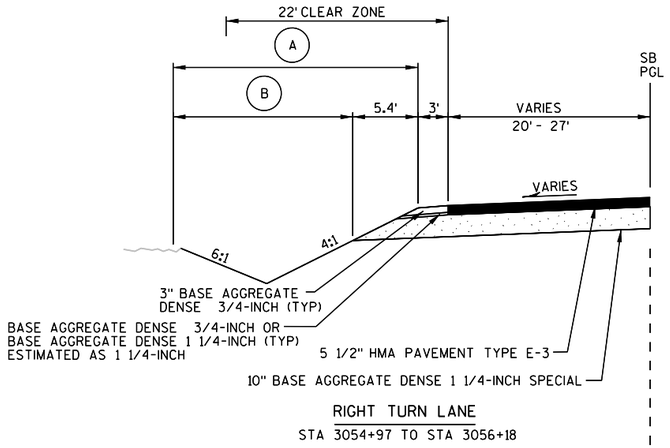
NOTE

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

X = POINT REFERRED TO ON CROSS SECTION

LC = LATERAL CLEARANCE

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	TYPICAL SECTIONS	SCALE: NTS	SHEET 10	E



RIGHT TURN LANE

STA 3054+97 TO STA 3056+18

LEGEND

(A) SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

(B) 4" SALVAGED TOPSOIL & MULCHING

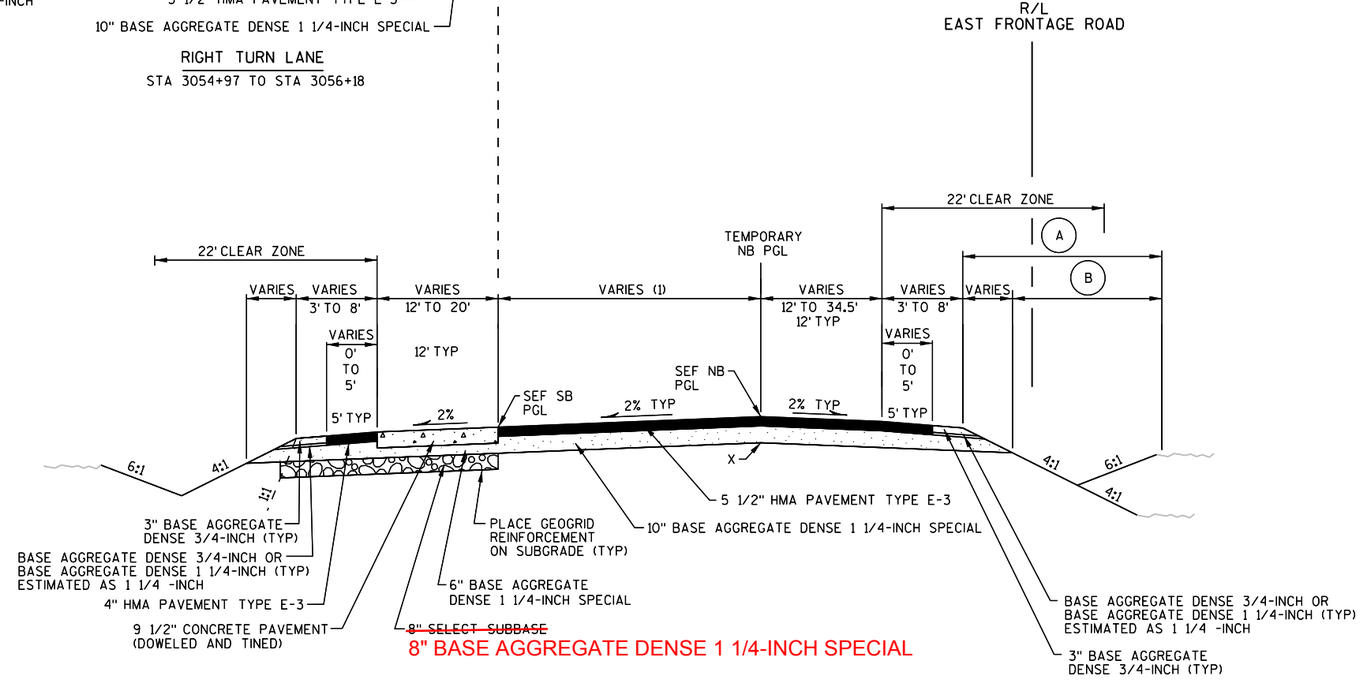
(LS) SOD LAWN, FERTILIZER TYPE B, AND 4" SALVAGED TOPSOIL

NOTE

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

X = POINT REFERRED TO ON CROSS SECTION

LC = LATERAL CLEARANCE



TYPICAL FINISHED SECTION

EAST FRONTAGE ROAD

STA 3052+35 TO STA 3056+18

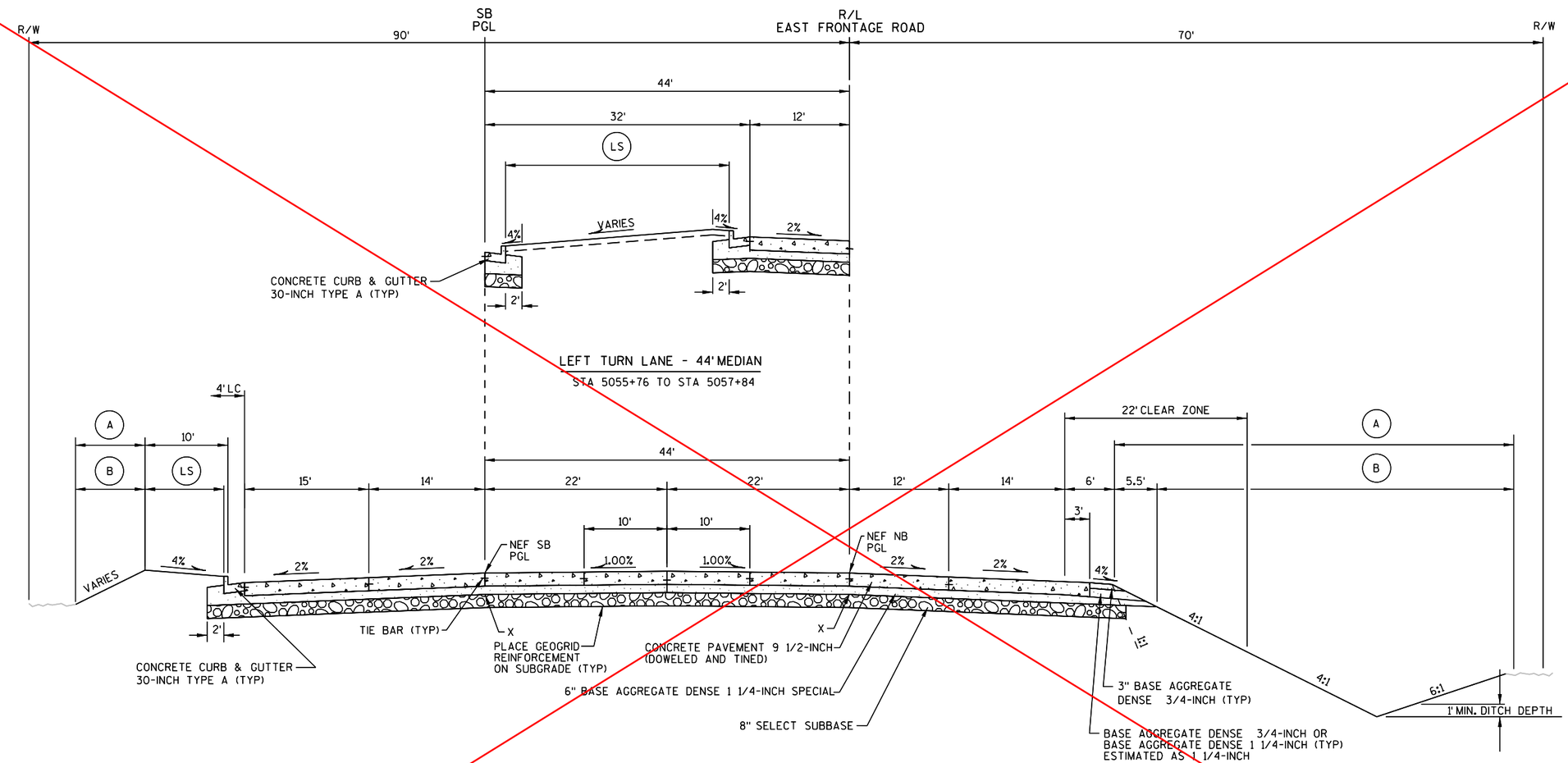
FOOT NOTES

(1) VARIES 26.6' TO 0', STA 3052+35 TO STA 3054+53

(2) VARIES 0' TO 44', STA 5053+53 TO STA 5055+00

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	TYPICAL SECTIONS	SCALE: NTS	SHEET 11	E

2



TYPICAL FINISHED SECTION
EAST FRONTAGE ROAD
STA 5055+00 TO STA 5058+59

LEGEND

- (A) SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B
- (B) 4" SALVAGED TOPSOIL & MULCHING
- (LS) SOD LAWN, FERTILIZER TYPE B, AND 4" SALVAGED TOPSOIL

NOTE

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

X = POINT REFERRED TO ON CROSS SECTION

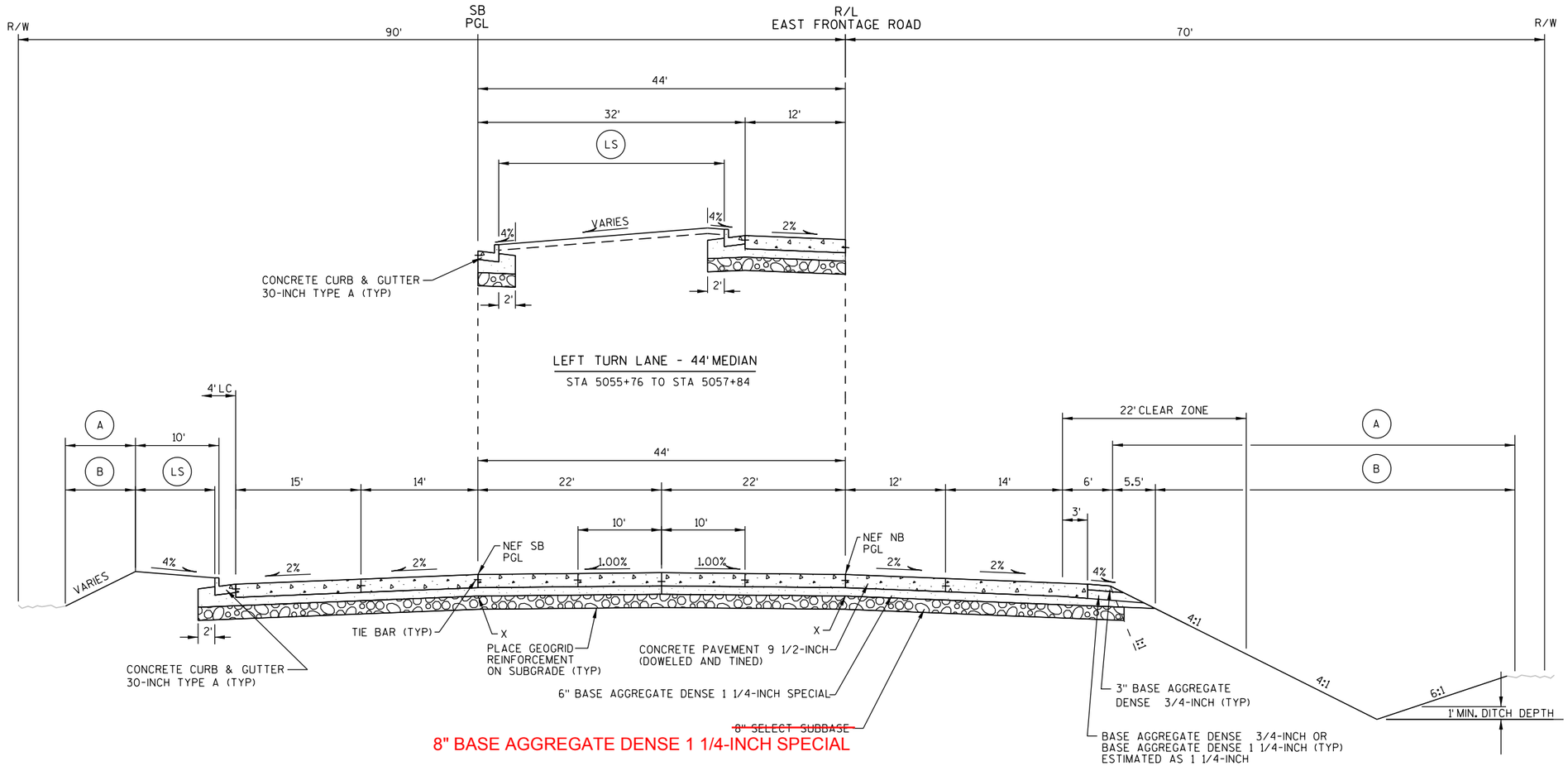
LC = LATERAL CLEARANCE

REPLACED WITH
REVISED SHEET 12
2-1-2013

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	TYPICAL SECTIONS	SCALE: NTS	SHEET 12	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\020301_ts.dgn PLOT DATE : 22-JUN-2012 13:23 PLOT BY : rmakoutz PLOT NAME : 020301_ts7 PLOT SCALE : 14.99997:1

Plan Revision
1030-11-70
Revised Page 12
February 1, 2013



8" BASE AGGREGATE DENSE 1 1/4-INCH SPECIAL

TYPICAL FINISHED SECTION
EAST FRONTAGE ROAD
STA 5055+60 TO STA 5058+59

LEGEND

- (A) SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B
- (B) 4" SALVAGED TOPSOIL & MULCHING
- (LS) SOD LAWN, FERTILIZER TYPE B, AND 4" SALVAGED TOPSOIL

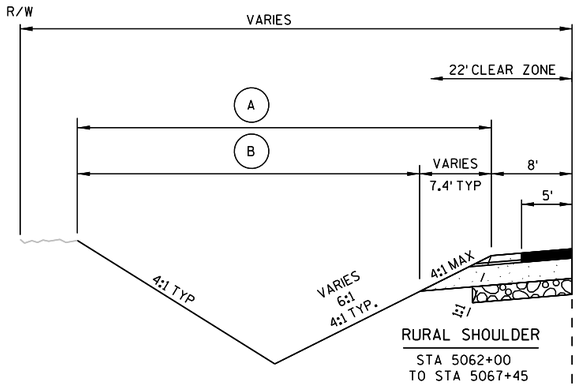
NOTE

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

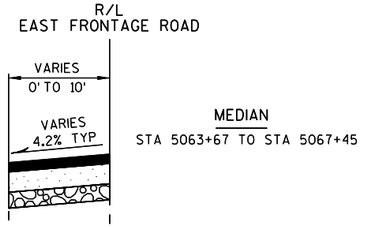
X = POINT REFERRED TO ON CROSS SECTION

LC = LATERAL CLEARANCE

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	TYPICAL SECTIONS	SCALE: NTS	REVISED SHEET 12	E



RURAL SHOULDER
STA 5062+00
TO STA 5067+45



MEDIAN
STA 5063+67 TO STA 5067+45

SB PGL

LEGEND

(A) SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

(B) 4" SALVAGED TOPSOIL & MULCHING

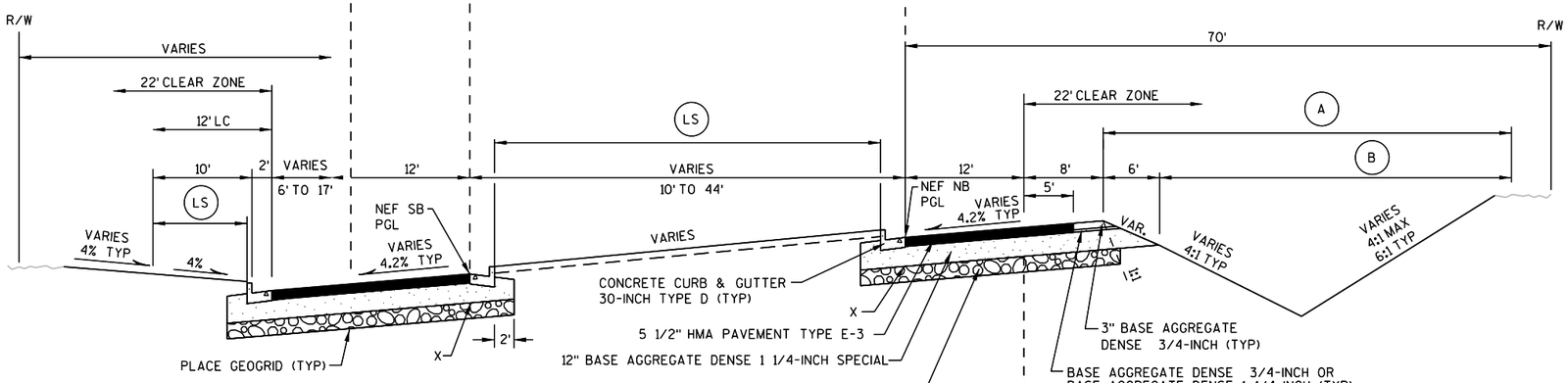
(LS) SOD LAWN, FERTILIZER TYPE B, AND 4" SALVAGED TOPSOIL

NOTE

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

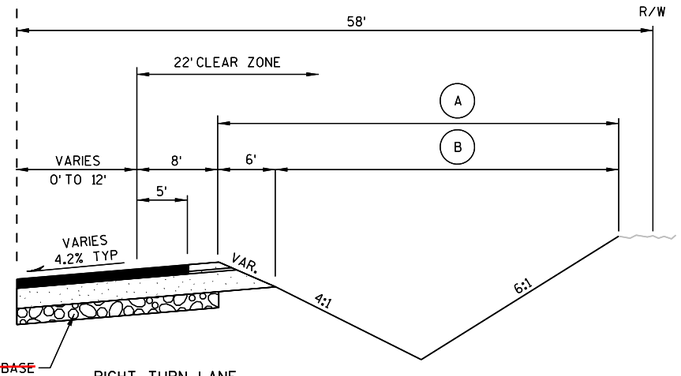
X = POINT REFERRED TO ON CROSS SECTION

LC = LATERAL CLEARANCE



8" BASE AGGREGATE DENSE
1 1/4-INCH SPECIAL

TYPICAL FINISHED SECTION
EAST FRONTAGE ROAD
STA 5058+59 TO STA 5067+45

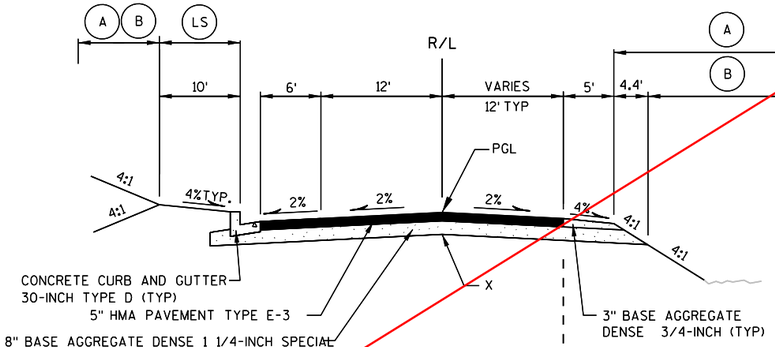


8" BASE AGGREGATE DENSE
1 1/4-INCH SPECIAL

RIGHT TURN LANE
STA 5058+59 TO STA 5061+76

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	TYPICAL SECTIONS	SCALE: NTS	SHEET 13	E

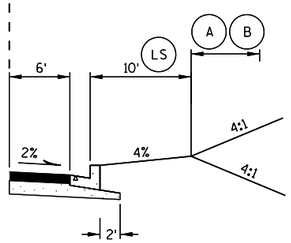
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TYPICAL FINISHED SECTION

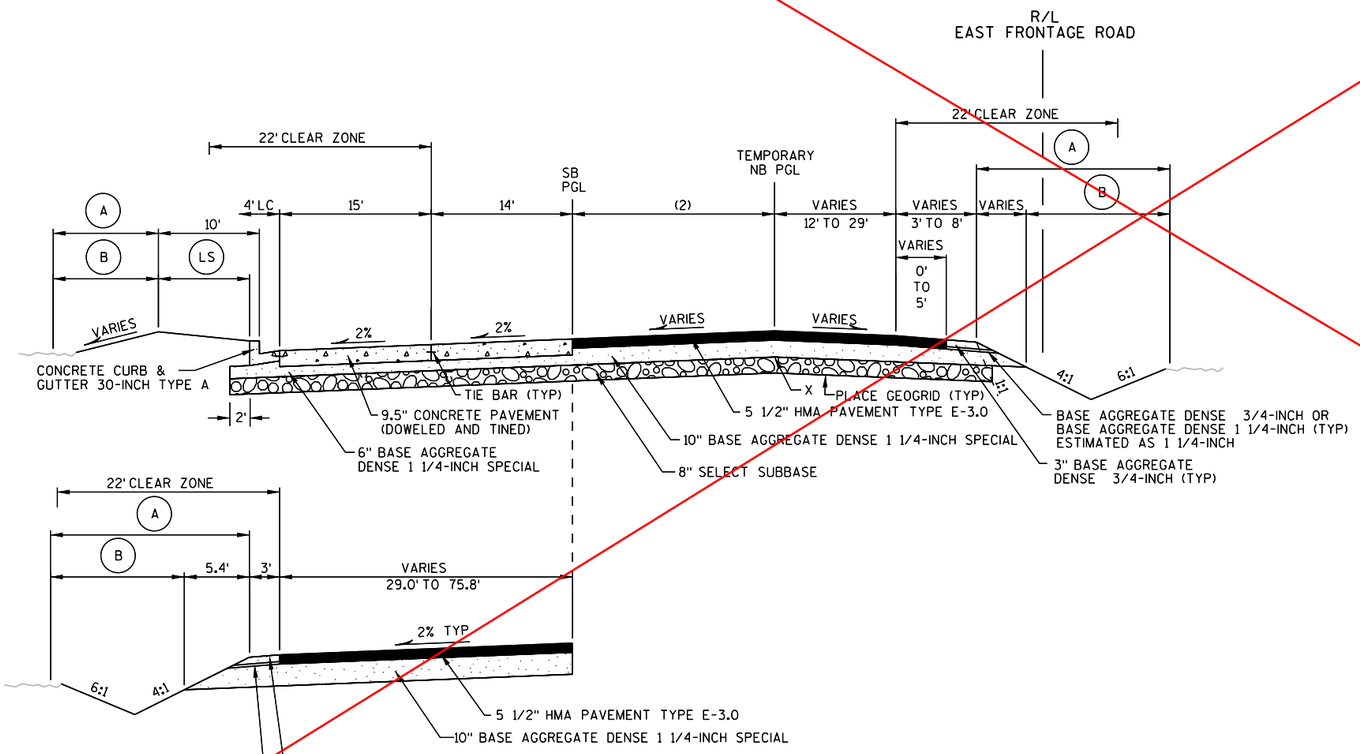
MICHEL COURT

STA 10+86.00 TO STA 17+55.83



CURB AND GUTTER SECTION

STA 10+86.00 TO STA 12+00



ASPHALTIC PAVEMENT

STA 5052+31 TO STA 5053+53

TYPICAL FINISHED SECTION

EAST FRONTAGE ROAD

STA 5051+56 TO STA 5055+00

LEGEND

(A) SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

(B) 4" SALVAGED TOPSOIL & MULCHING

(LS) SOD LAWN, FERTILIZER TYPE B, AND 4" SALVAGED TOPSOIL

NOTE

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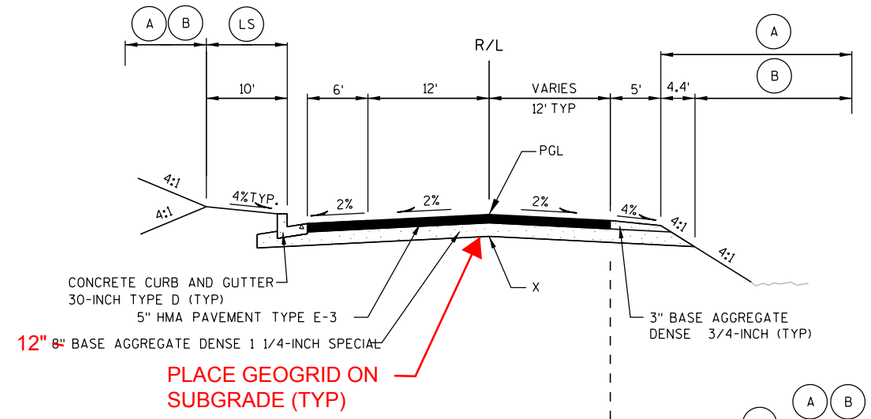
X = POINT REFERRED TO ON CROSS SECTION

LC = LATERAL CLEARANCE

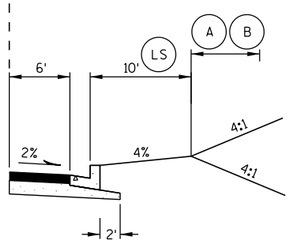
REPLACED WITH
REVISED SHEET 14
2-1-2013

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	TYPICAL SECTIONS	SCALE: NTS	SHEET 14	E

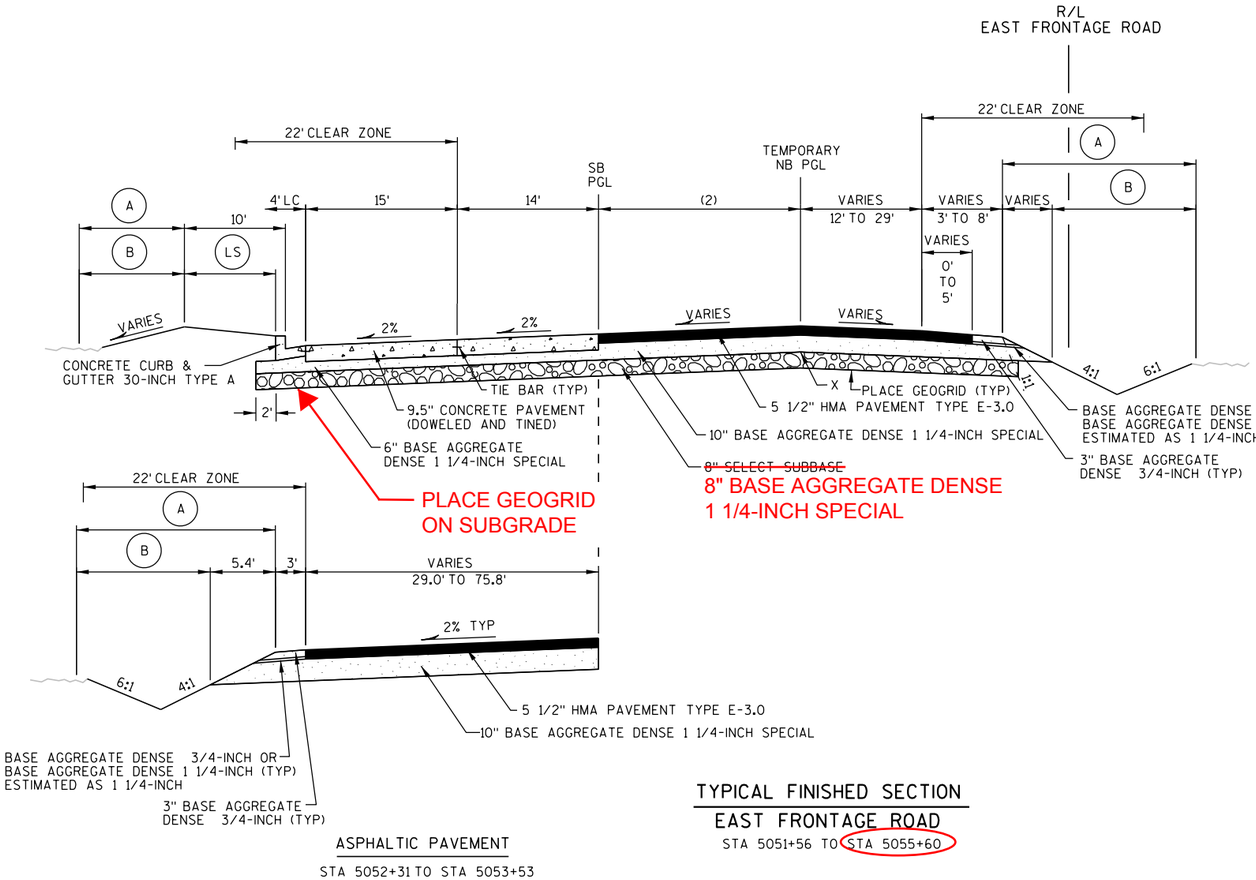
Plan Revision
1030-11-70
Revised Page 14
February 1, 2013



TYPICAL FINISHED SECTION
MICHEL COURT
STA 10+86.00 TO STA 17+55.83



CURB AND GUTTER SECTION
STA 10+86.00 TO STA 12+00



ASPHALTIC PAVEMENT
STA 5052+31 TO STA 5053+53

TYPICAL FINISHED SECTION
EAST FRONTAGE ROAD
STA 5051+56 TO STA 5055+60

LEGEND

- (A) SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B
- (B) 4" SALVAGED TOPSOIL & MULCHING
- (LS) SOD LAWN, FERTILIZER TYPE B, AND 4" SALVAGED TOPSOIL

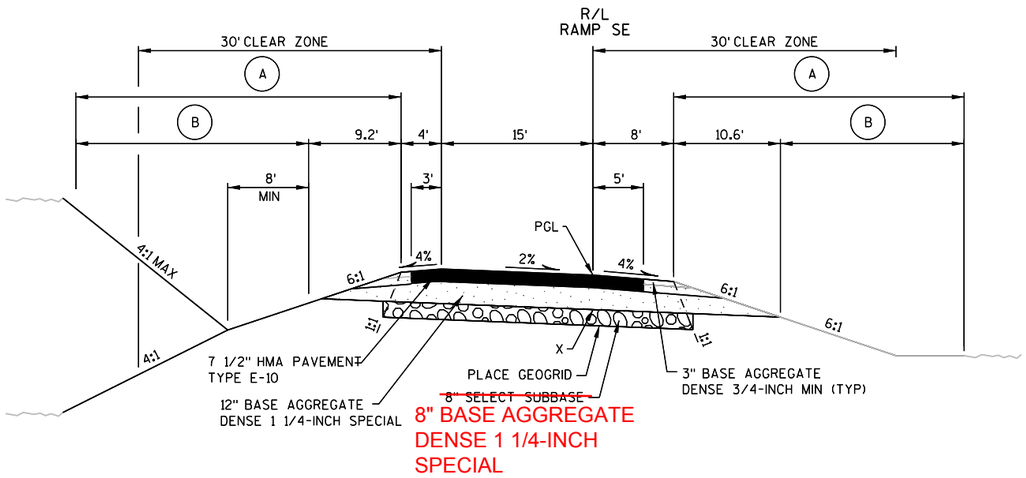
NOTE

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

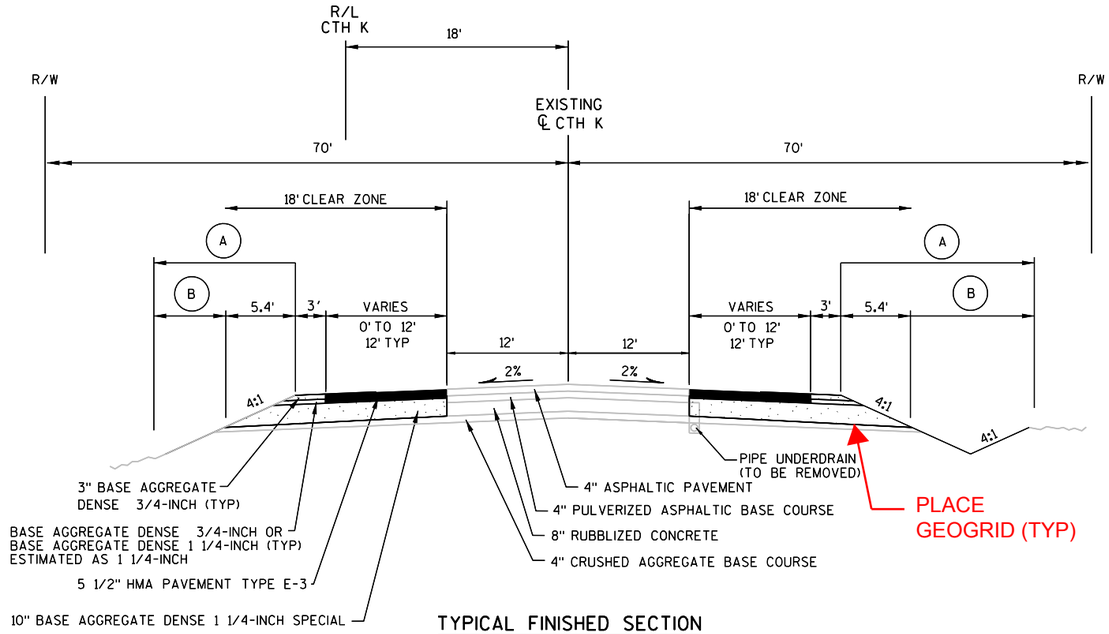
X = POINT REFERRED TO ON CROSS SECTION

LC = LATERAL CLEARANCE

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	TYPICAL SECTIONS	SCALE: NTS	REVISED SHEET 14	E



TYPICAL FINISHED SECTION
RAMP SE TRANSITION
STA 1037+50 TO STA 1051+16



TYPICAL FINISHED SECTION
CTH K
STA 52+00 TO STA 57+39

LEGEND

(A) SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

(B) 4" SALVAGED TOPSOIL & MULCHING

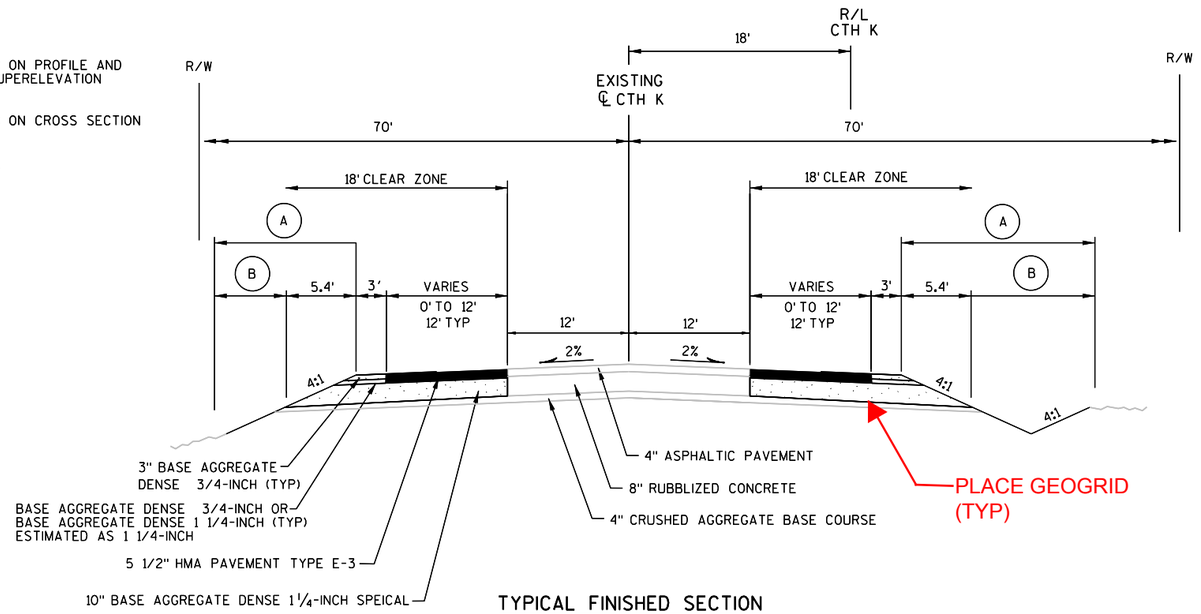
(LS) SOD LAWN, FERTILIZER TYPE B, AND 4" SALVAGED TOPSOIL

NOTE

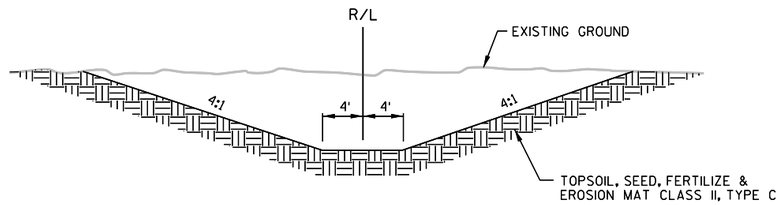
PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

X = POINT REFERRED TO ON CROSS SECTION

LC = LATERAL CLEARANCE



TYPICAL FINISHED SECTION
CTH K
STA 47+72 TO STA 52+00



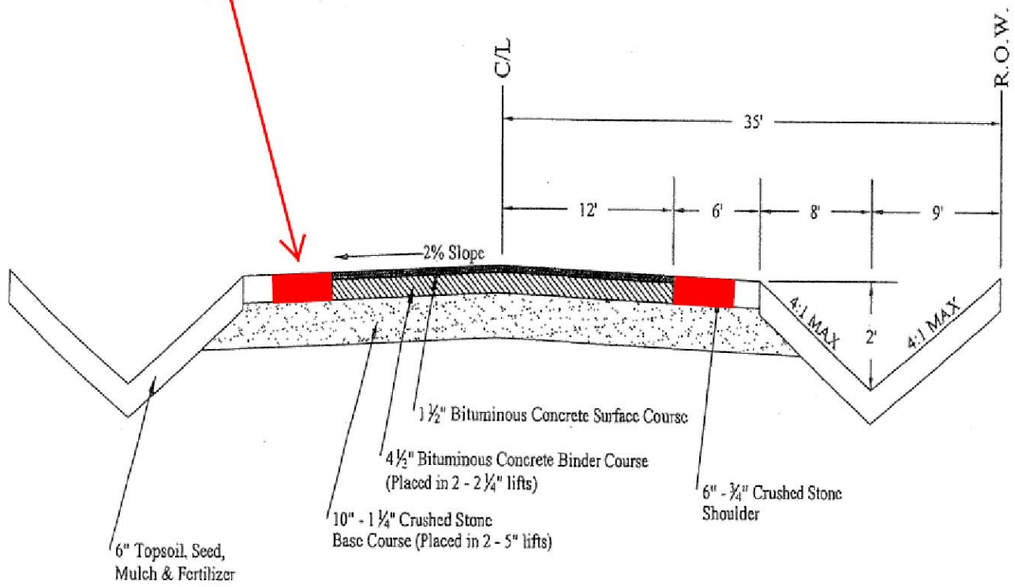
TYPICAL DITCH SECTION
STA 0+47.66 TO STA 4+13.68

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	TYPICAL SECTIONS	SCALE: NTS	SHEET 15	E

2

pave 4-ft of the 6-ft shoulder for bicycle accommodations

Village of Caledonia
Rural Collector Road
Cross Section



PROJECT NO: 1030-11-70	HWY: ADAMS RD/ A&W ACCESS RD	COUNTY: RACINE	TYPICAL SECTIONS	SCALE: NTS	SHEET 15A	E

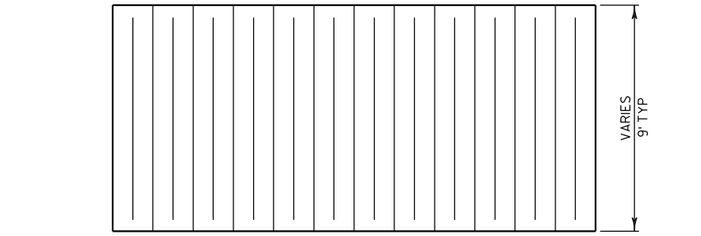
FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\020301_ts.dgn PLOT DATE : 22-JUN-2012 13:23 PLOT BY : rmckoutz PLOT NAME : 020301_ts4 PLOT SCALE : 14.99997:1 WISDOT/CADDS SHEET 42

RUNOFF COEFFICIENT TABLE

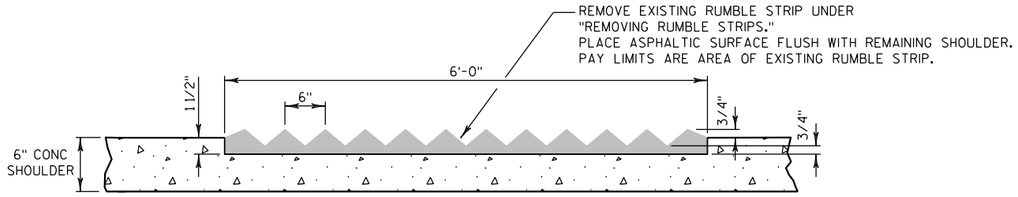
	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33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

TOTAL PROJECT AREA = 34.45 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 21.72 ACRES

090805



PLAN VIEW



PROFILE VIEW

NOTE
RUMBLE STRIPS ARE LONGITUDINALLY SPACED 60' CENTER TO CENTER

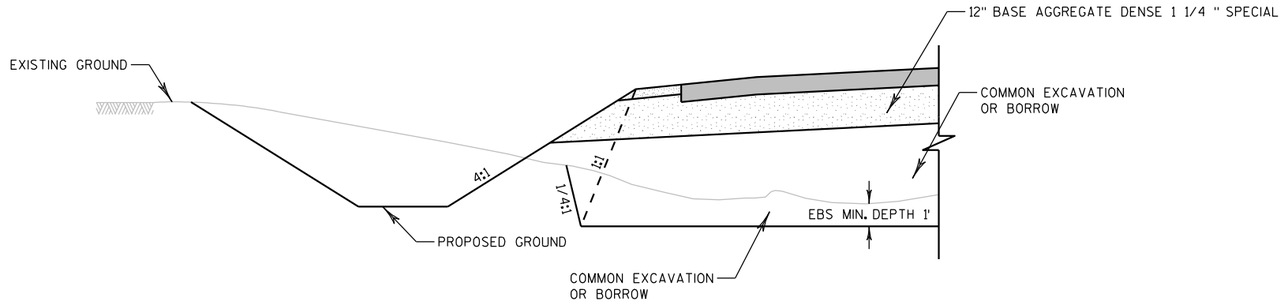
REMOVING RUMBLE STRIPS

NOTE TO DESIGNERS: When using this detail drawing, include the corresponding corridor specification 'Removing Rumble Strips'

100901

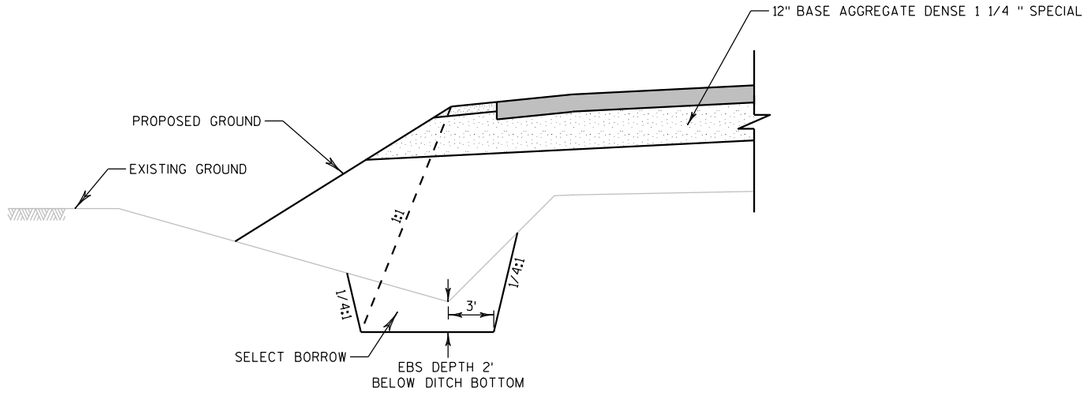
FILL EMBANKMENTS (RURAL)

** STA 3050+00 TO STA 3051+00



EXISTING DITCHES

** STA 3032+00 to STA 3032+50
STA 3038+50 TO STA 3039+50
STA 5075+50 TO STA 5077+00

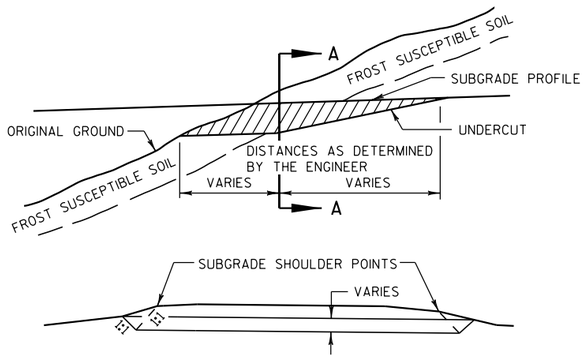


PAVEMENT SUBGRADE IMPROVEMENT DETAILS FOR FRONTAGE ROADS AND CROSSROADS

** ACTUAL LOCATIONS DEPENDENT ON FIELD CONDITIONS DURING GRADING OPERATIONS. GEOGRID REINFORCEMENT AND FILL MATERIAL SHALL NOT BE PLACED UNTIL AUTHORIZED BY THE ENGINEER OR SOILS ENGINEER.

100813

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CONSTRUCTION DETAILS	SCALE: NTS	SHEET 17	E



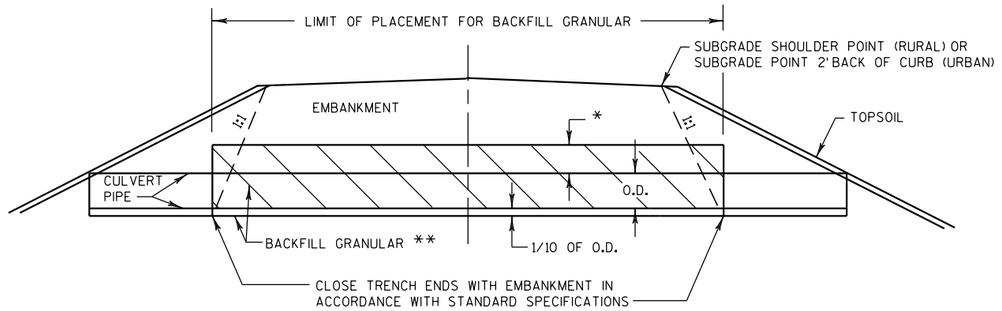
SECTION A-A
CROSS SECTION SHOWING UNDERCUT

NOTES

1. EXACT LOCATIONS AND EXTENT OF EBS SECTIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
2. EBS AREA TO BE BACKFILLED WITH MATERIAL ACCEPTABLE TO THE ENGINEER.
3. BACKFILL MUST BE HOMOGENEOUS WITH ADJOINING FILL MATERIAL.
4. THE FILL SECTION WITHIN 100' OF THE MOUTH OF THE CUT MUST BE KEPT 2' BELOW SUBGRADE UNTIL EBS IS COMPLETED.

EXCAVATION BELOW SUBGRADE AT CUTS

100813



O.D. = OUTSIDE DIAMETER

* CULVERT PIPE IN NEW EMBANKMENT = 1' MIN
* CULVERT PIPE IN EXISTING EMBANKMENT = TO EXISTING GROUND ELEVATION

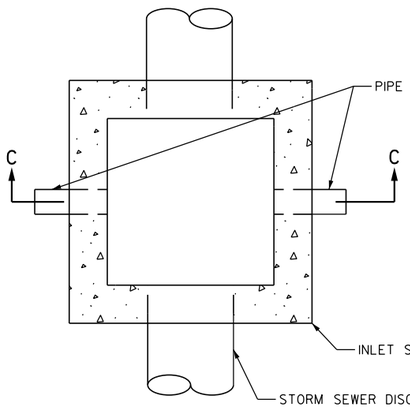
** INCIDENTAL TO CULVERT PIPE

CULVERT BACKFILL DETAIL

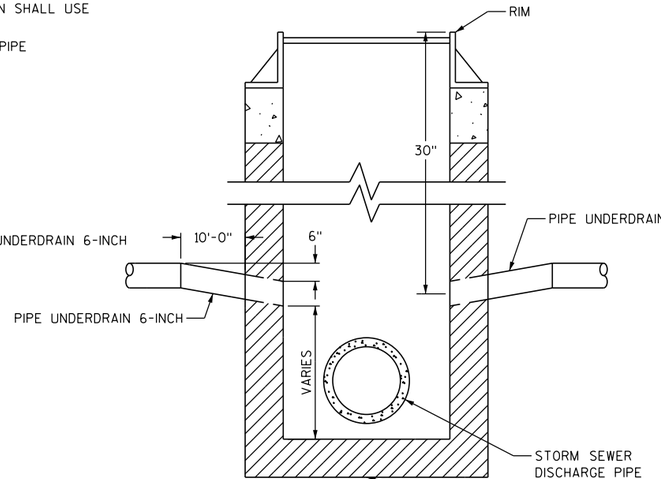
100813

NOTES

1. CONNECTIONS TO INLETS OR MANHOLES IN MEDIAN SHALL USE PIPE UNDERDRAIN, 6-INCH.
2. PROVIDE TWO 6" DIA. OPENINGS FOR UNDERDRAIN PIPE A MINIMUM OF 30" BELOW THE RIM ELEVATION.



PLAN VIEW



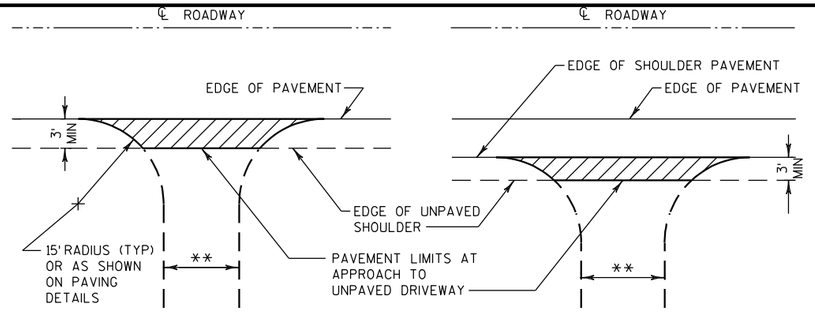
SECTION C-C

UNDERDRAIN OUTFALL AT INLET

(IN EBS AREAS)

100514

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CONSTRUCTION DETAILS	SCALE: NTS	SHEET 18	E

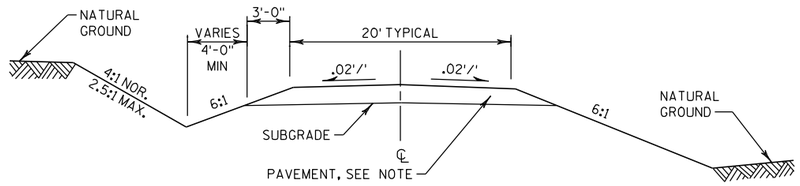


** SEE PAVING DETAILS FOR WIDTH REQUIRED.

PLAN VIEW

PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

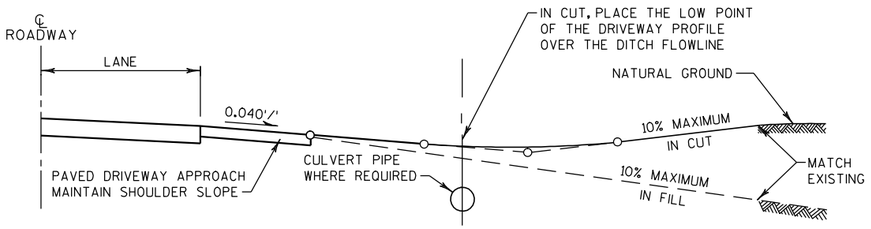
RURAL DRIVEWAY INTERSECTION



IN CUT

IN FILL

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE



TYPICAL DRIVEWAY PROFILES

NOTES

1. WHERE DRIVEWAY IS PAVED, APPROACH PAVEMENT SHOULD BE EXTENDED TO MATCH DRIVEWAY PAVEMENT. SAWCUT IS REQUIRED.

2. DRIVEWAY SURFACE TO BE SAME AS EXISTING WITH MINIMUM SECTION OF:

   ASPHALTIC SURFACE (3-INCH) DRIVEWAYS AND FIELD ENTRANCES OVER BASE AGGREGATE DENSE 3/4 -INCH (4-INCH)

   OR

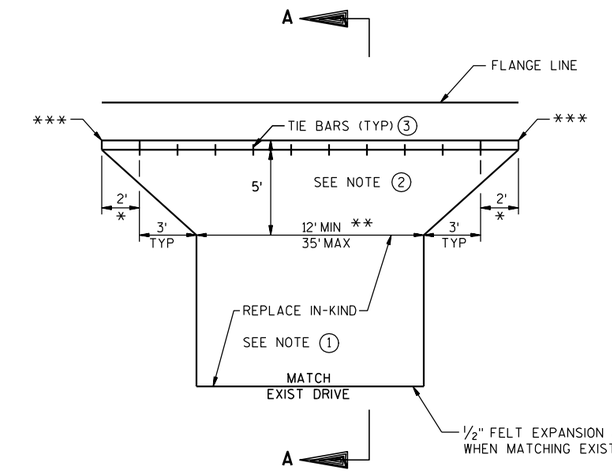
   CONCRETE DRIVEWAY 6-INCH OVER BASE AGGREGATE DENSE 3/4 -INCH (4-INCH)

   OR

   BASE AGGREGATE DENSE 3/4 -INCH (6-INCH)

RURAL DRIVEWAY

110210



PLAN VIEW

NOTES:

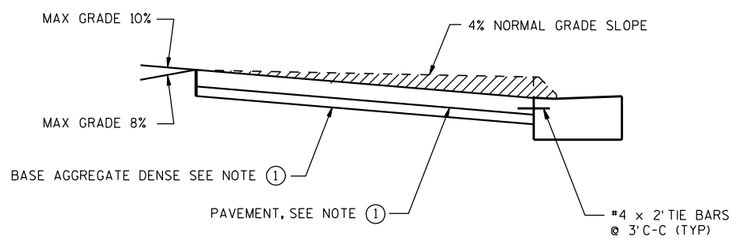
(1) DRIVEWAY SURFACE BEYOND APRON SHALL BE REPLACE IN-KIND WITH MINIMUM SECTION OF:

ASPHALTIC SURFACE (3-INCH) DRIVEWAYS AND FIELD ENTRANCES
OVER BASE AGGREGATE DENSE 3/4-INCH (4-INCH)
OR
CONCRETE DRIVEWAY 6-INCH OVER
BASE AGGREGATE DENSE 3/4-INCH (4-INCH)
OR
BASE AGGREGATE DENSE 3/4-INCH (6-INCH)

(2) ALL URBAN DRIVEWAYS TO BACK OF APRON SHALL BE PAID FOR AS CONCRETE DRIVEWAY 6-INCH

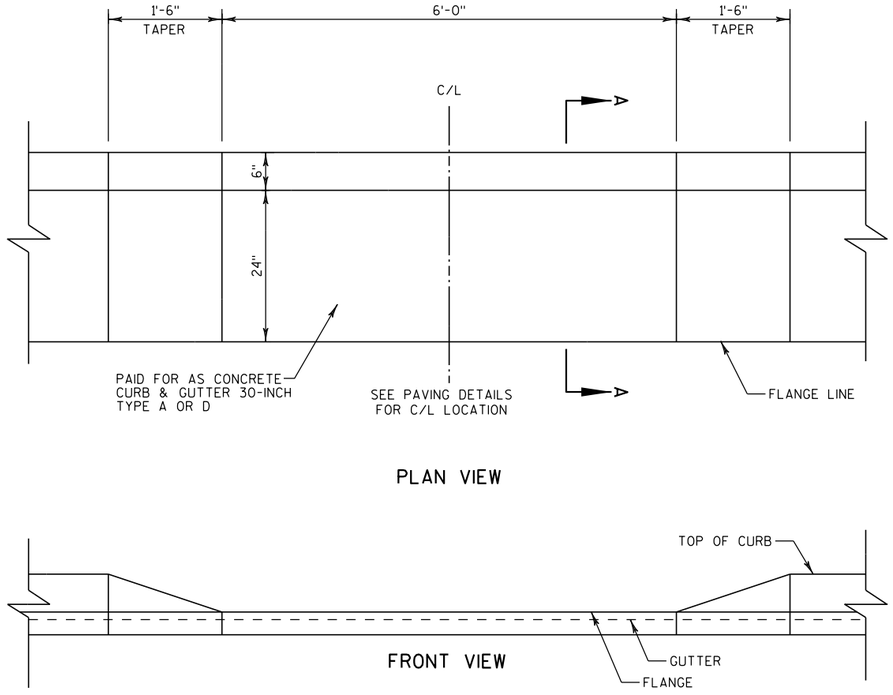
(3) TIE BARS ARE INCIDENTAL TO THE BID ITEM "CONCRETE DRIVEWAY 6-INCH"

* TAPER CURB HEAD
** SEE PAVING DETAILS FOR WIDTH REQD
*** STATION SHOWN ON PAVING DETAILS

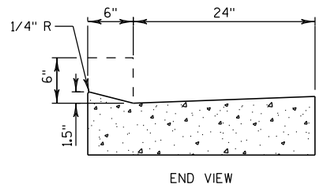


SECTION A-A

URBAN DRIVEWAY



PLAN VIEW



END VIEW

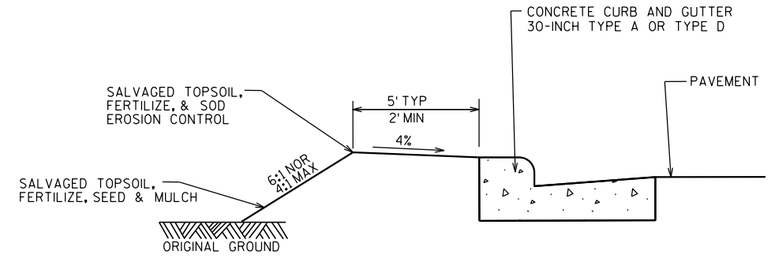
SECTION A-A

FRONT VIEW

MAINTENANCE OPENING

LOCATIONS SHOWN ON PAVING DETAILS

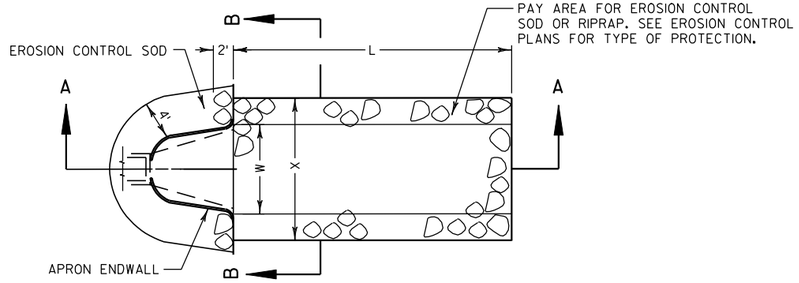
100813



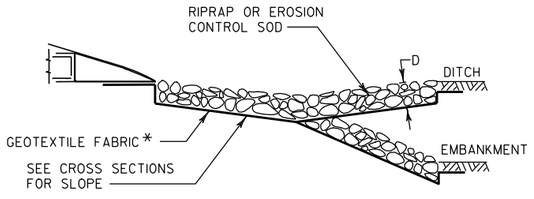
TYPICAL PARTIAL SECTION
AT INTERSECTION RADII

081230

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CONSTRUCTION DETAILS	SCALE: NTS	SHEET 20	E



PLAN VIEW



SECTION A-A

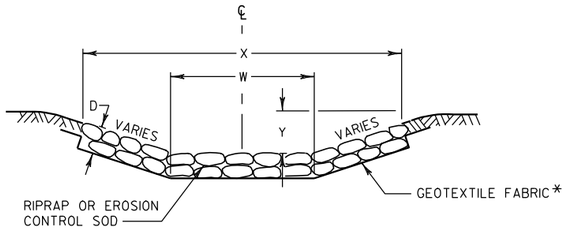
L = 3 x W (NOR) OR 10' MIN
OR AS INDICATED IN THE PLANS
OR AS DIRECTED BY THE ENGINEER

D = 12" FOR RIPRAP LIGHT
18" FOR RIPRAP MEDIUM
24" FOR RIPRAP HEAVY

X = W+2' FOR TYPICAL CULVERT
DISCHARGE INTO DITCH
W+5' FOR CULVERT DISCHARGE
DOWN EMBANKMENT SLOPE

Y = 0' FOR TYPICAL CULVERT
DISCHARGE INTO DITCH
12" FOR CULVERT DISCHARGE
DOWN EMBANKMENT SLOPE

* TYPE R (FOR RIPRAP LIGHT ONLY)
TYPE HR (FOR RIPRAP HEAVY AND MEDIUM ONLY)

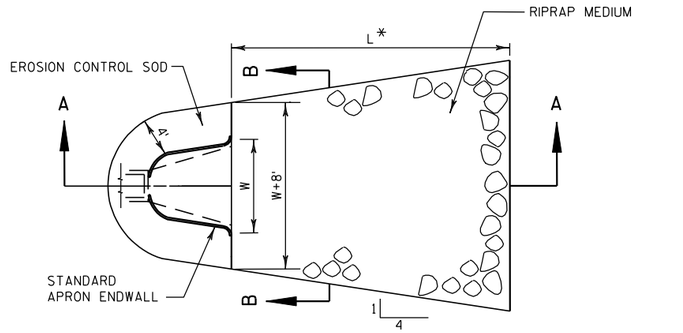


SECTION B-B

SOD, RIPRAP AND GEOTEXTILE FABRIC DETAIL AT APRON ENDWALLS

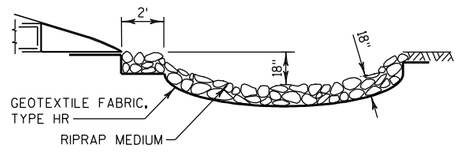
SEE EROSION CONTROL PLAN FOR LOCATIONS

090429

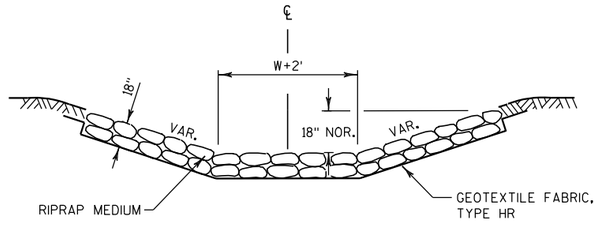


* L = 3 TIMES W OR 10' MIN
OR AS DIRECTED BY THE ENGINEER

PLAN VIEW



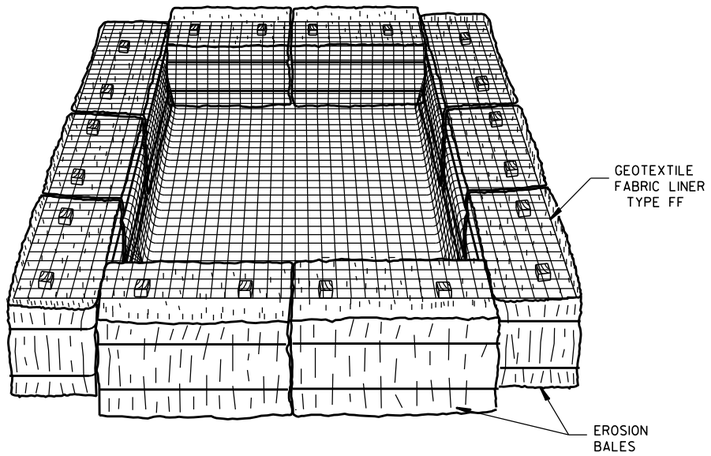
SECTION A-A



SECTION B-B

SOD, RIPRAP AND GEOTEXTILE FABRIC DETAIL AT POND OUTFALL ENDWALLS

090429



TEMPORARY SETTLING BASIN

(SIZE TO BE DETERMINED IN FIELD AS INDICATED BELOW:)

STORAGE VOLUME (C.F.) = 16 X GPM (PUMP RATE)

EXAMPLE:
CONTRACTOR INDICATES PUMP CAPABLE OF 50 GPM
HEIGHT OF BALES = 1.5 FT.

SOLUTION:
SV (C.F.) = 16 X 50
SV = 800 C.F.

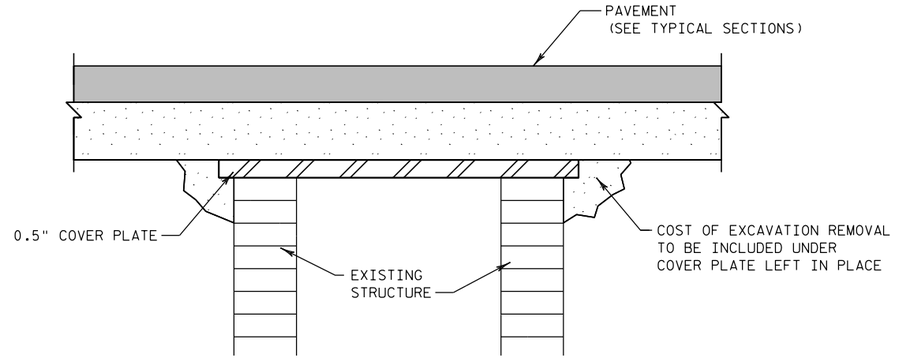
$\frac{800\ C.F.}{1.5\ FT.}$ = 533 S.F.

USE A 20 FT. X 27 FT. BASIN

NOTES:

1. CONTRACTOR TO PUMP WATER FROM EXCAVATION TO BASIN PRIOR TO DISCHARGING TO THE WATERWAY.
2. BASIN TO BE KEPT LESS THAN 10% FULL OF SEDIMENT. GEOTEXTILE FABRIC AND SEDIMENTS TO BE DISPOSED BY THE CONTRACTOR OFF OF THE PROJECT SITE.
3. TEMPORARY SETTLING BASIN TO BE PAID FOR AS EROSION BALES AND GEOTEXTILE FABRIC TYPE FF.

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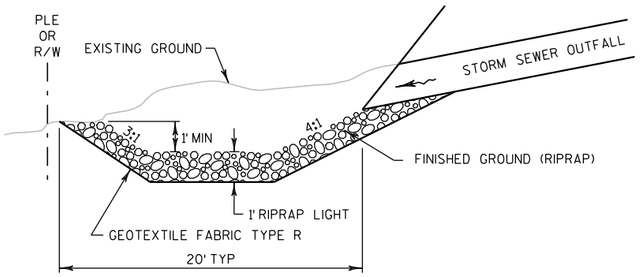


NOTES

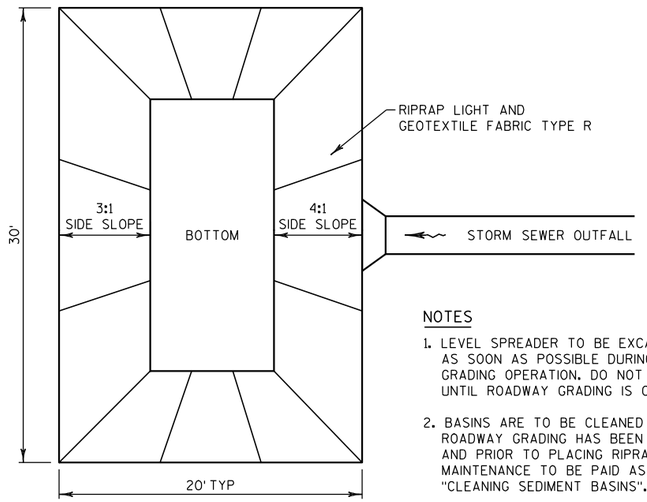
1. INSTALL COVER PLATE TO REST FLAT UPON THE EXISTING STRUCTURE. COVER PLATE SHOULD EXTEND OUTSIDE EDGE OF THE EXISTING MASONRY.
2. THE FOLLOWING ITEMS ARE INCIDENTAL TO ITEM COVER PLATE LEFT IN PLACE:
   A. REMOVE INLET FRAME AND LID
   B. REMOVE 2' MINIMUM CONCRETE BLOCK
   C. FURNISH AND INSTALL COVER PLATE
   D. BACKFILL USING BASE AGGREGATE DENSE 1 1/4"

COVER PLATE LEFT IN PLACE

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SECTION VIEW



NOTES

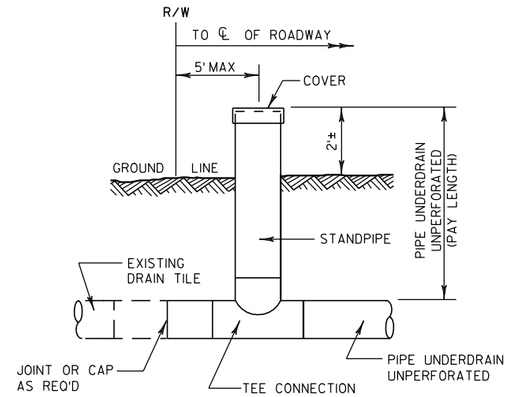
1. LEVEL SPREADER TO BE EXCAVATED AS SOON AS POSSIBLE DURING ROADWAY GRADING OPERATION. DO NOT PLACE RIPRAP UNTIL ROADWAY GRADING IS COMPLETE.
2. BASINS ARE TO BE CLEANED AFTER ROADWAY GRADING HAS BEEN COMPLETED AND PRIOR TO PLACING RIPRAP. BASIN MAINTENANCE TO BE PAID AS "CLEANING SEDIMENT BASINS".
3. CONSTRUCTION OF LEVEL SPREADER TO BE PAID AS EXCAVATION COMMON, RIPRAP LIGHT, AND GEOTEXTILE FABRIC TYPE R.

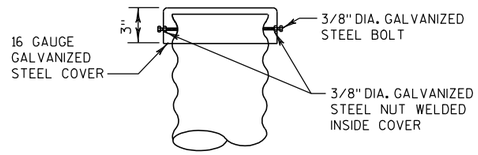
PLAN VIEW

PERMANENT STORM SEWER OUTFALL LEVEL SPREADER DETAIL

Note to designer:
Add locations here

100820





NOTE

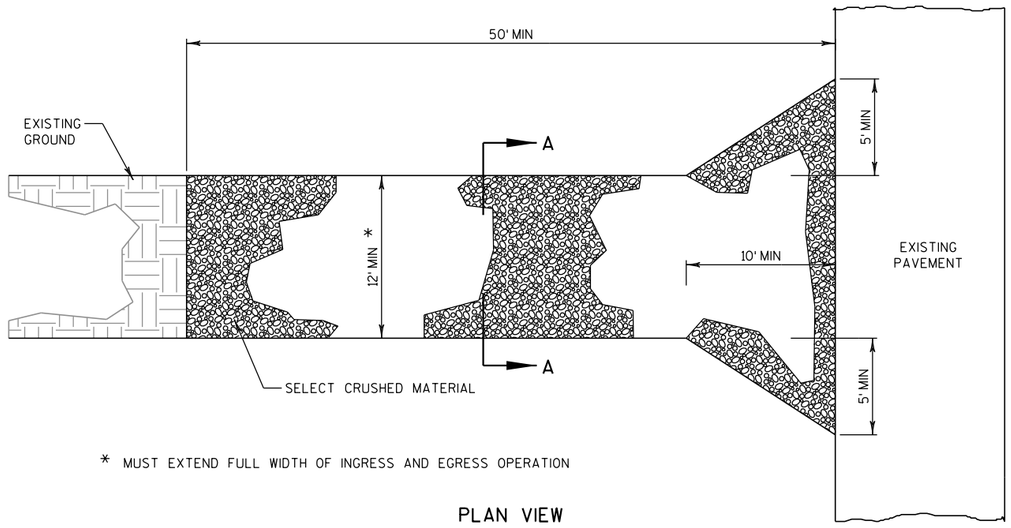
THE COST OF FURNISHING AND INSTALLING THE CONNECTION TO THE UNDERDRAIN AND THE COVER SHALL BE CONSIDERED INCIDENTAL TO THE ITEM PIPE UNDERDRAIN, UNPERFORATED.

INSPECTION STANDPIPE AIR VENT

FOR DRAIN TILE

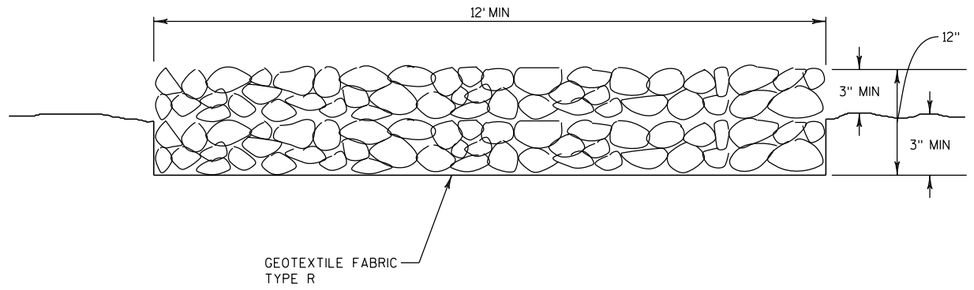
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2



* MUST EXTEND FULL WIDTH OF INGRESS AND EGRESS OPERATION

PLAN VIEW



SECTION A-A

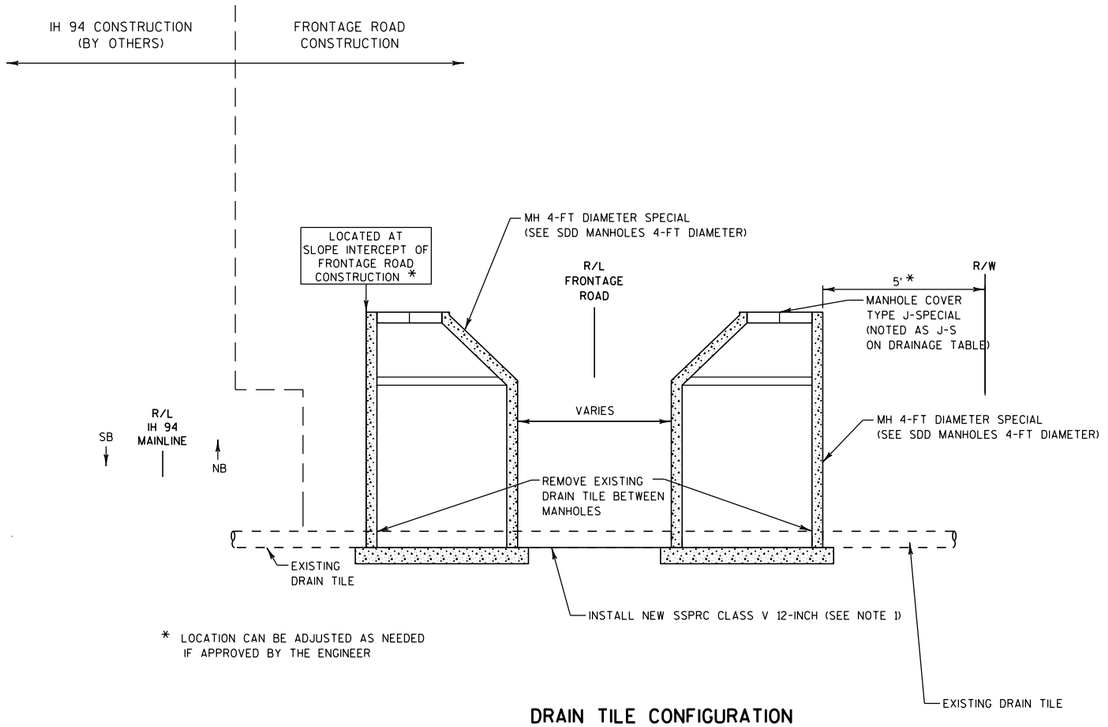
NOTE

TRACKING PADS TO BE INSPECTED DAILY. DEFICIENT AREAS TO BE REPAIRED OR REPLACED IMMEDIATELY.

TRACKING PADS

FOR CONSTRUCTION EGRESS POINTS

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* LOCATION CAN BE ADJUSTED AS NEEDED
IF APPROVED BY THE ENGINEER

DRAIN TILE CONFIGURATION

(FOR EAST FRONTAGE ROAD CROSSINGS)

STAGING

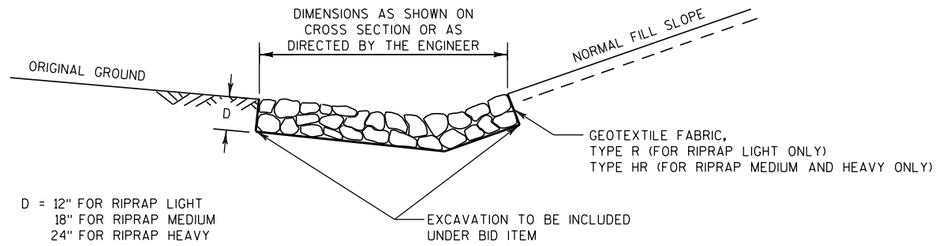
1) FRONTAGE ROAD CONSTRUCTION:
CONSTRUCT MANHOLE 4-FT DIAMETER SPECIAL:
CONNECT EXISTING TILE TO MANHOLE, REPLACE
EXISTING TILE WITH SSPRC CLASS 12-INCH
BETWEEN MANHOLES.

NOTES

1) IF EXISTING DRAIN TILE IS LARGER THAN 12", MATCH THE EXISTING SIZE IN THE FIELD.

2) GRADING AT MANHOLES WITHIN THE CLEAR ZONE OF THE FRONTAGE ROADS AND MAINLINE IS TO BE FLUSH WITH TOP OF THE MANHOLE.

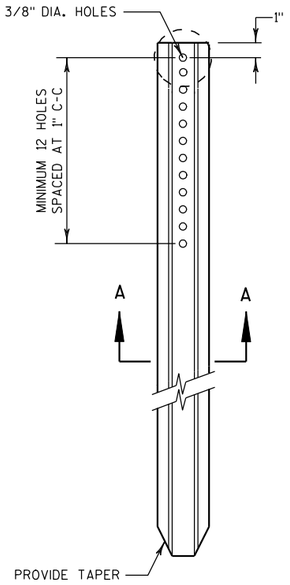
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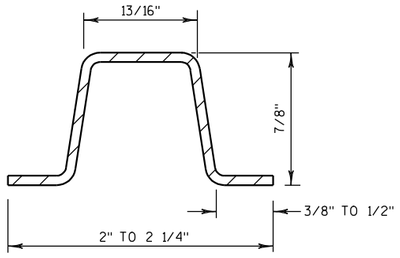
D = 12" FOR RIPRAP LIGHT
18" FOR RIPRAP MEDIUM
24" FOR RIPRAP HEAVY

DETAIL FOR RIPRAP (MEDIUM) IN DITCHES

100901

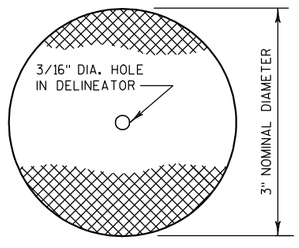


DELINEATOR POST

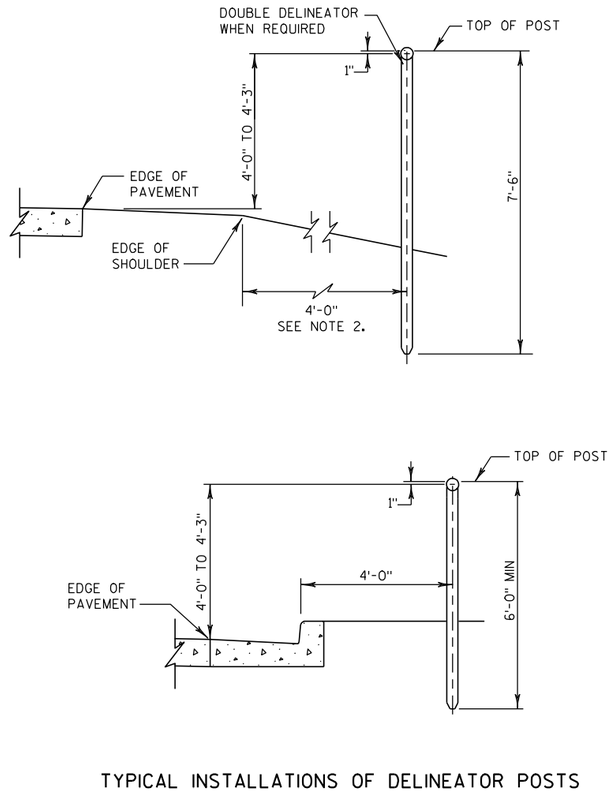


SECTION A-A

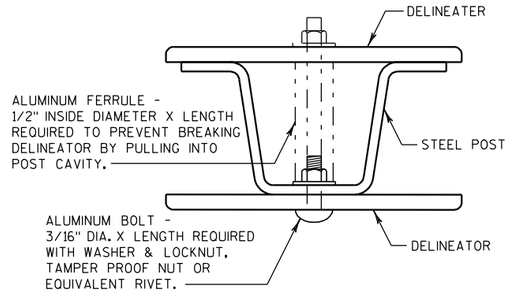
WEIGHT 1.12 LBS PER FT. ± 0.1 LB.



DELINEATOR



TYPICAL INSTALLATIONS OF DELINEATOR POSTS

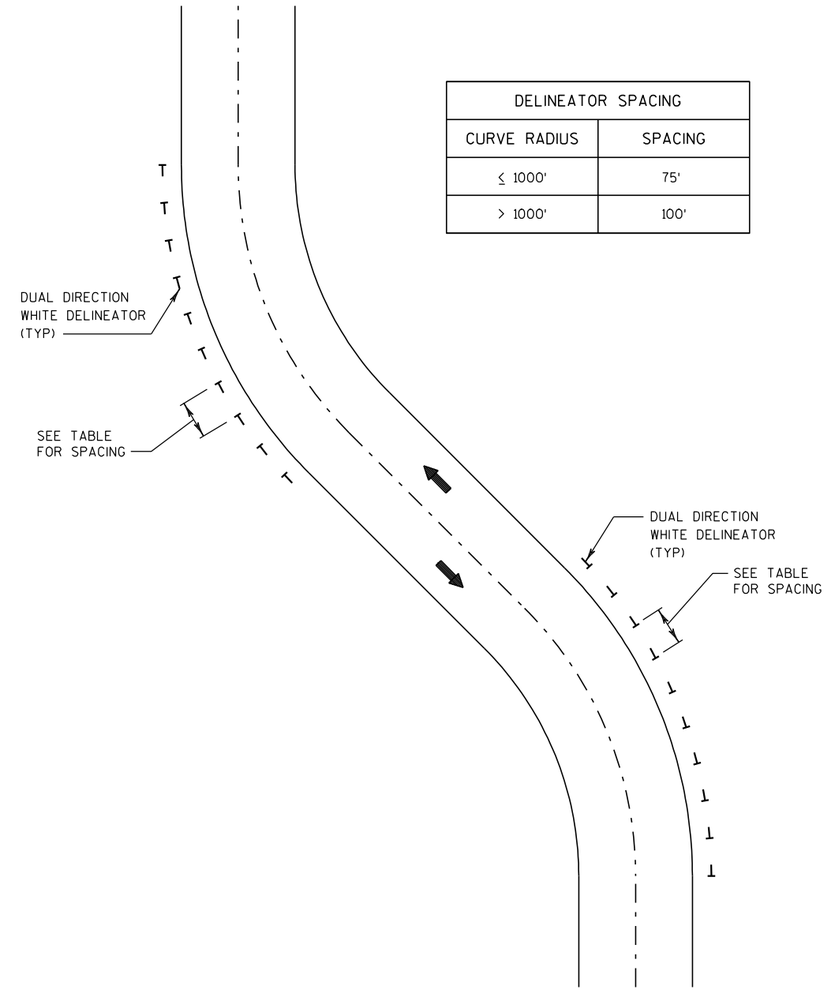


MOUNTING DETAIL FOR DELINEATOR

NOTES

1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.
2. DELINEATORS SHALL BE PLACED AT A CONSTANT DISTANCE FROM THE EDGE OF THE SHOULDER FOR THE LENGTH OF THE INSTALLATION.
3. INSTALL POST PERPENDICULAR TO ROADWAY, AT THE POINT OF INSTALLATION, SO THAT THE DELINEATORS ARE VISIBLE FROM BOTH DIRECTION.

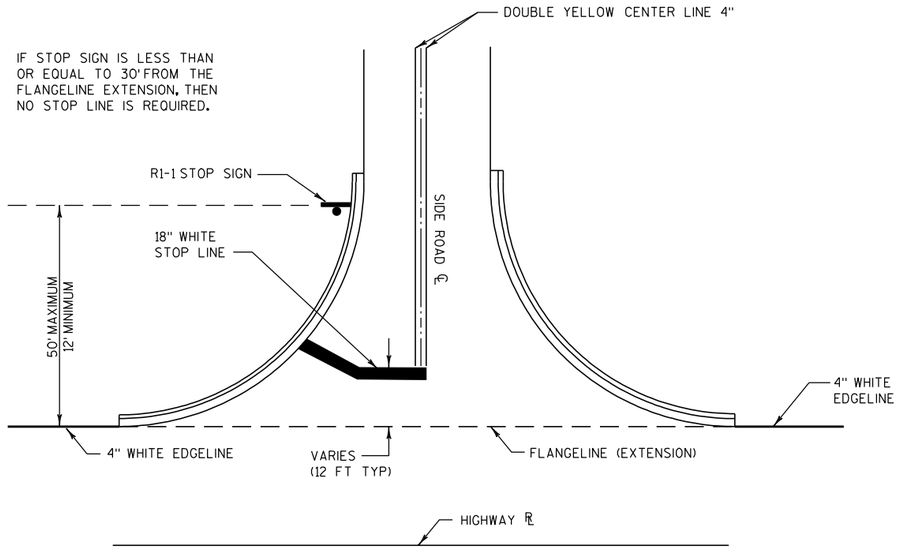
DELINEATOR SPACING	
CURVE RADIUS	SPACING
≤ 1000'	75'
> 1000'	100'



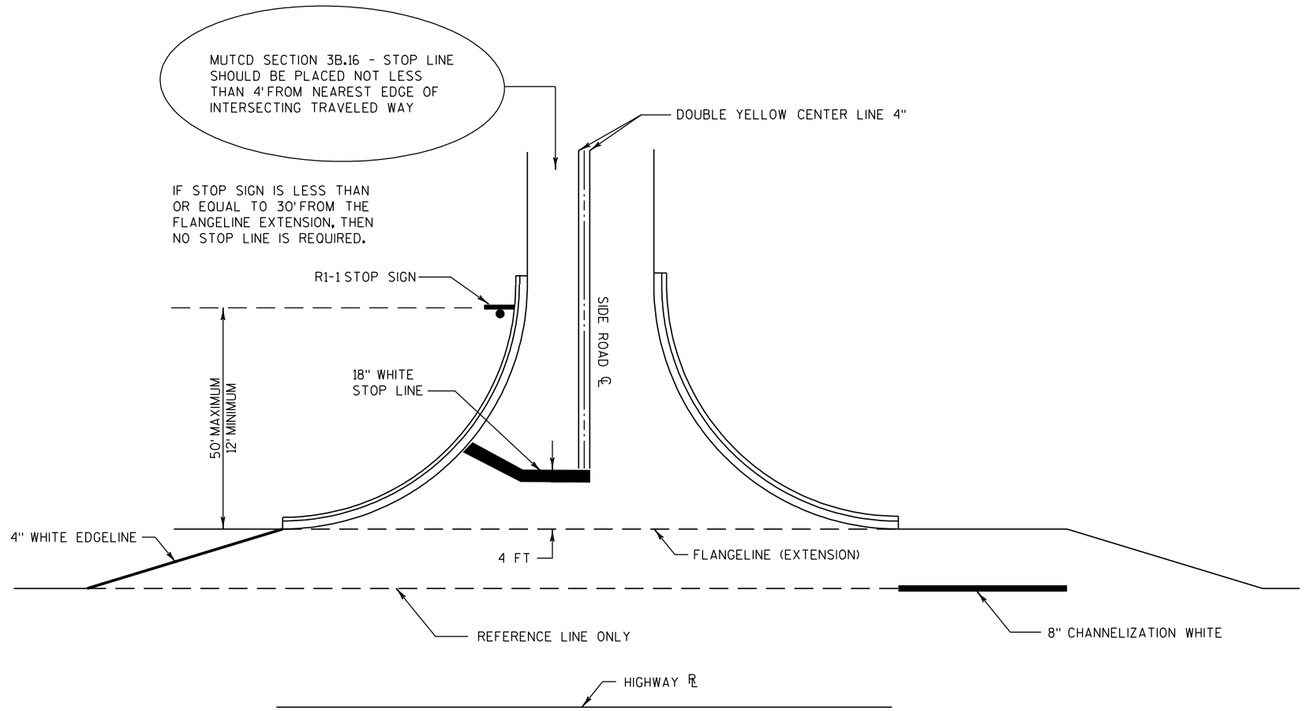
DELINEATOR SPACING

DELINEATOR LAYOUT ON FRONTAGE ROAD REVERSE CURVES

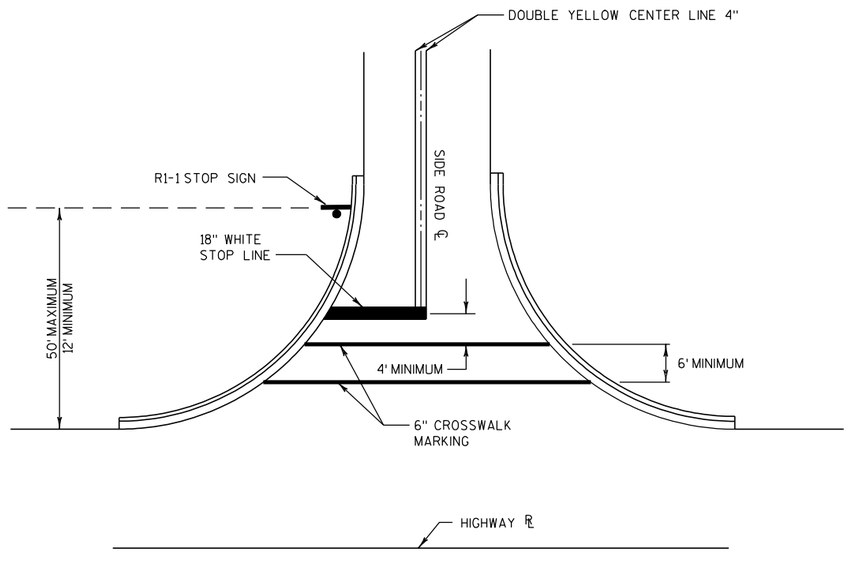
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TYPICAL PAVEMENT MARKING FOR SIDEROADS



TYPICAL PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



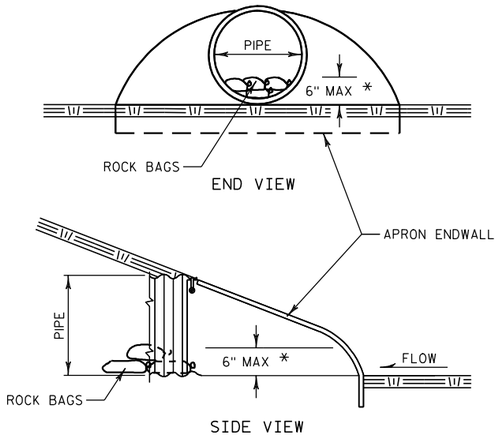
TYPICAL PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING

NOTES

1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. STOP LINES REQUIRED WHERE:
   - A. CROSSWALK MARKINGS EXIST OR ARE BEING PROVIDED
   - B. LARGE RADII
   - C. OFFSET LEFT TURNS WHERE STOP BAR FOR LEFT TURN IS SET BACK FROM THRU MOVEMENT

PAVEMENT MARKING AT SIDEROADS

100818

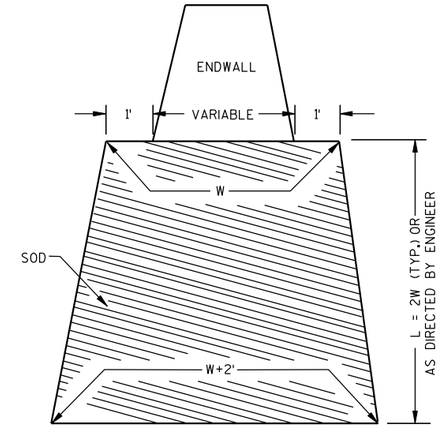


* OR AS DIRECTED BY THE ENGINEER

CULVERT PIPE CHECK

SEE EROSION CONTROL PLAN FOR LOCATIONS

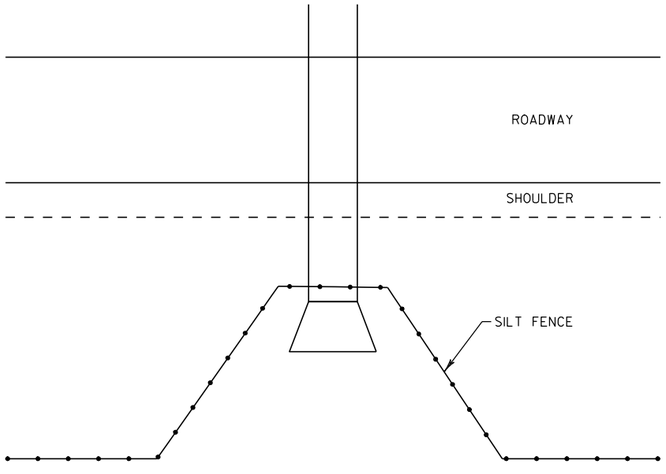
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SOD TREATMENT AT CULVERTS

SEE EROSION CONTROL PLAN FOR LOCATIONS

2

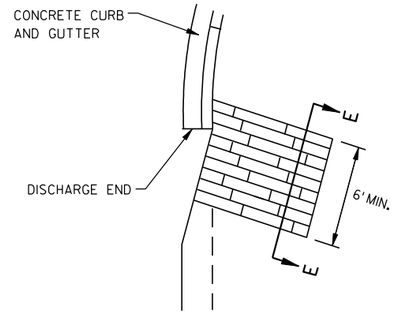


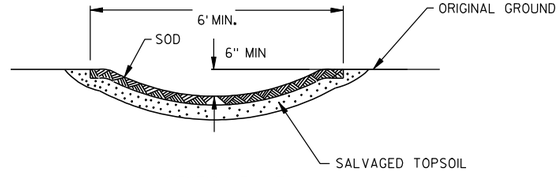
NOTE

SEE SILT FENCE SDD FOR ADDITIONAL INFORMATION.

TYPICAL SILT FENCE DETAIL AT PIPE INLET

100902

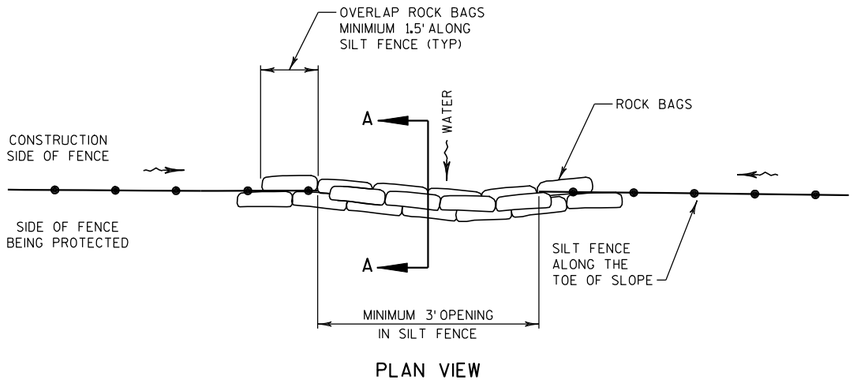




SECTION E - E

SOD FLUME DETAIL AT CURB ENDS

SEE EROSION CONTROL PLAN FOR LOCATIONS



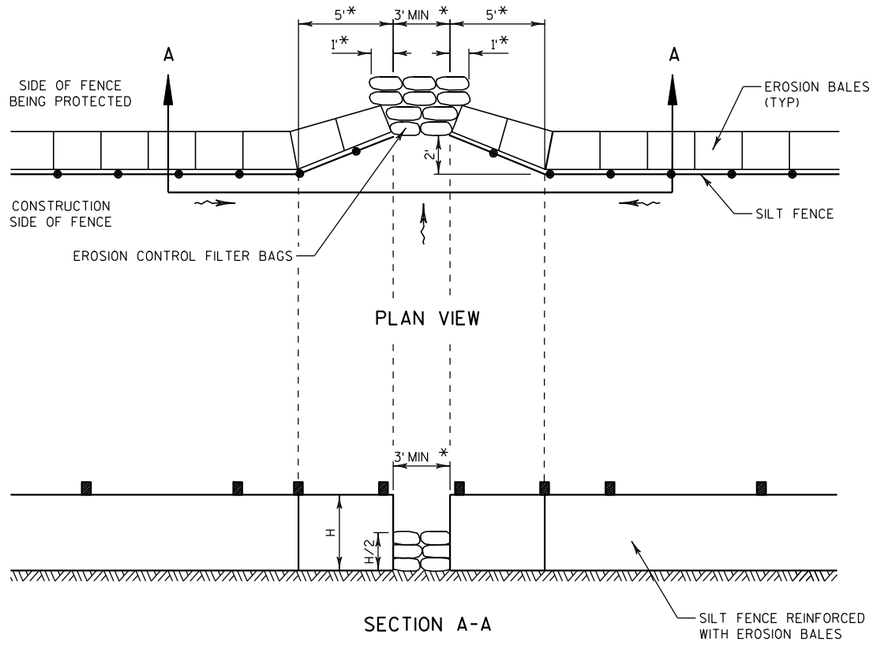
PLAN VIEW



SECTION A-A

SILT FENCE DRAINAGE OUTLET, ROCK BAGS

100903



PLAN VIEW

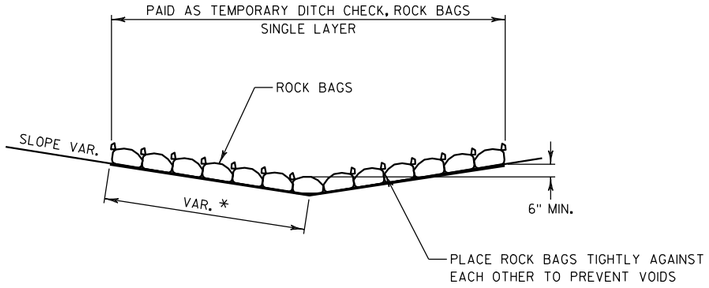
SECTION A-A

* DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS
AS DIRECTED BY THE ENGINEER.

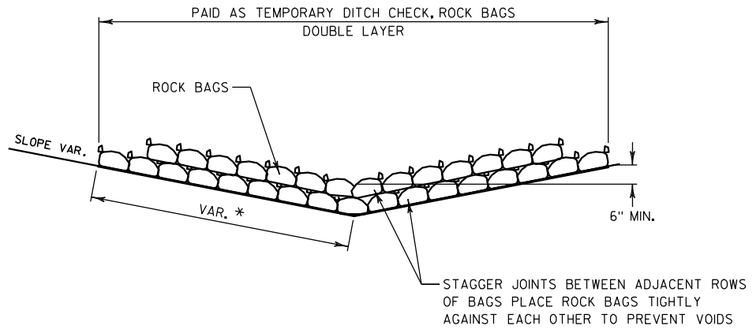
SILT FENCE DRAINAGE OUTLET, EROSION CONTROL FILTER BAGS

(FOR USE IN ENVIRONMENTALLY SENSITIVE AREAS)

100903



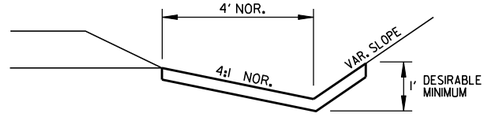
SIDE VIEW (SINGLE LAYER)



* LENGTH AND NUMBER OF BAGS MAY VARY
DEPENDING ON DESIRED DEPTH OF WATER POOL.

SIDE VIEW (DOUBLE LAYER)

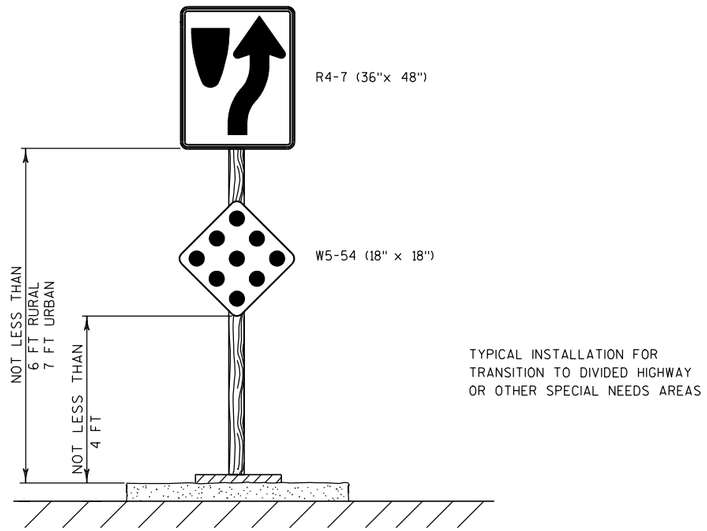
TEMPORARY DITCH CHECK, ROCK BAGS, SINGLE LAYER AND DOUBLE LAYER



SOD OR EROSION MAT DETAIL FOR DITCHES

SEE EROSION CONTROL PLAN FOR LOCATIONS

081231

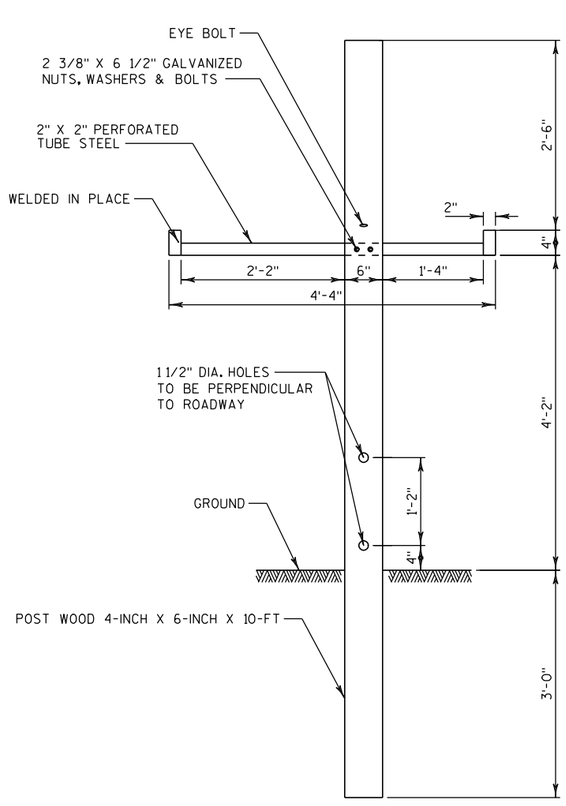


SIGNING DETAIL

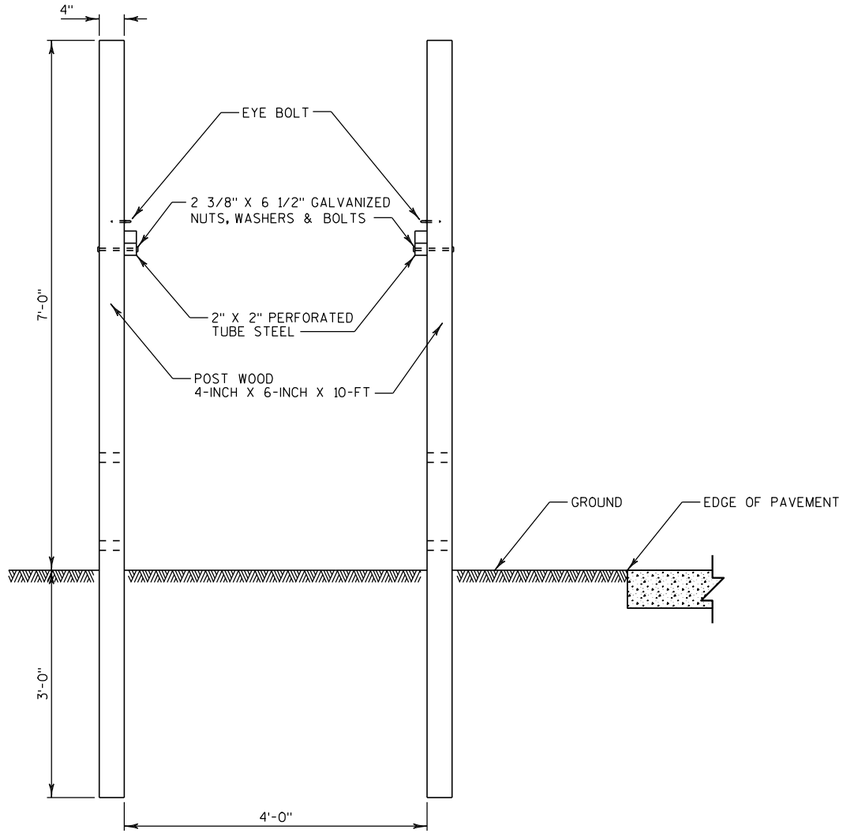
SEE PERMANENT SIGNING PLANS FOR LOCATIONS

090610

2



SIDE VIEW



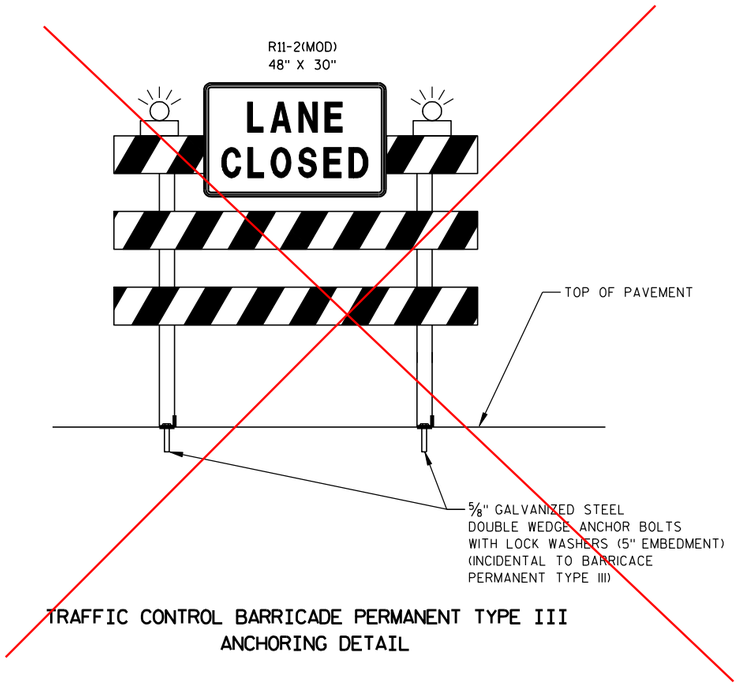
FRONT VIEW

NOTE

LOCATE BARRICADE RACK OUTSIDE CLEAR ZONE AS DIRECTED BY ENGINEER.

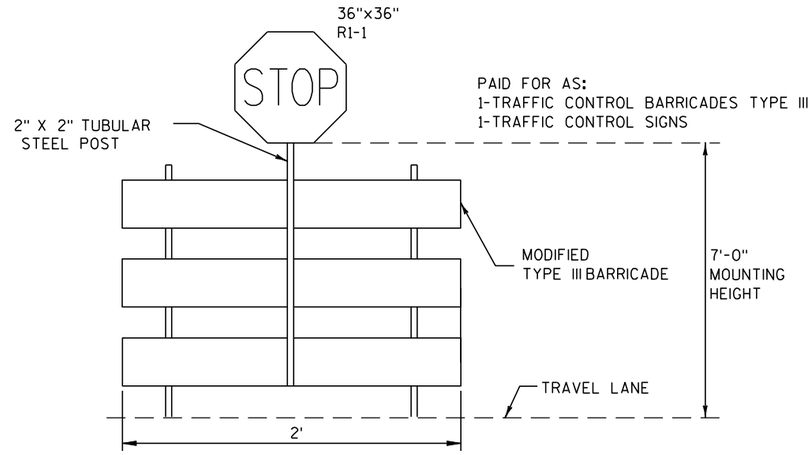
BARRICADE RACK

100813



TRAFFIC CONTROL BARRICADE PERMANENT TYPE III
ANCHORING DETAIL

090401



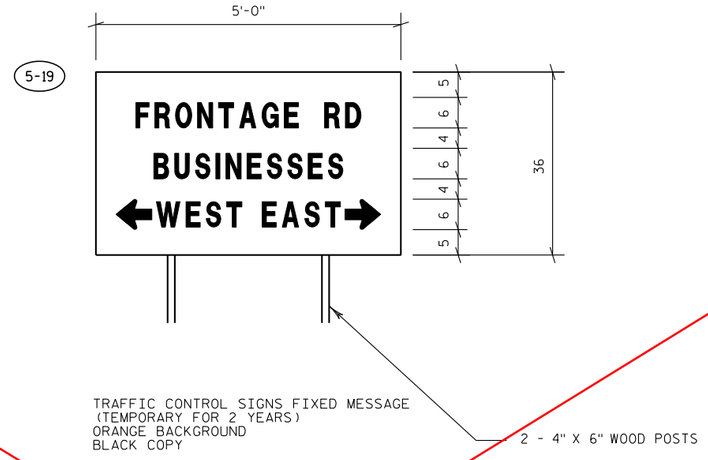
TEMPORARY STOP SIGN

GENERAL NOTES FOR TRAFFIC CONTROL

1. TRAFFIC CONTROL DRUMS IN TAPERS, SHALL BE EQUIPPED WITH WARNING LIGHTS, TYPE "C", ONE WAY LIGHTS IN TAPERS ONLY, UNLESS OTHERWISE SHOWN.
2. SIGN LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATION SPACING MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO MEET FIELD CONDITIONS.
3. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS REFLECTIVE ORANGE.
4. ALL TRAFFIC CONTROL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED IN THE PLANS.
5. BARRICADE STRIPES ARE TO BE SLOPED DOWNWARD IN THE DIRECTIOIN OF TRAFFIC FLOW.

100813

2



(X-XX) = SIGN NUMBER

NOTES:

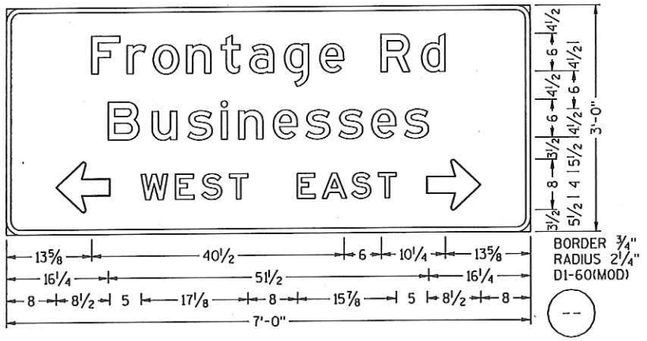
1. ALL SIGNS TO HAVE HIGH INTENSITY SHEETING - REFERENCE: "WISDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," LATEST EDITION.
2. AFTER SIGNS HAVE BEEN LOCATED IN THE FIELD, BUT BEFORE INSTALLATION, THE SIGNING AND MARKING SUPERVISOR SHALL VERIFY EACH SIGN LOCATION.
3. ALL SIGNS TO BE MOUNTED ON A NEW WOODEN POST SUPPORTS (4"x6"). THE NUMBER OF POSTS REQUIRED FOR EACH LAYOUT IS SHOWN.
4. SIGNS ON THIS SHEET TO BE PAID UNDER THE ITEM "TRAFFIC CONTROL SIGNS FIXED MESSAGE."
5. SIGNS SHALL BE BLACK NON-REFLECTIVE MESSAGE ON ORANGE HIGH INTENSITY SHEETING.
6. ALL SIGNS SHALL HAVE CAPITAL LETTERS AND NUMERALS:

   6" CAPS SHALL BE SERIES "B"

7. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER FOR REVIEW PRIOR TO MANUFACTURING.
8. SIGN BASE MATERIAL SHALL BE ACCORDING TO SECTION 637.2.1.2.
9. DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

100414

REPLACED WITH
REVISED SHEET 33



5-19

GENERAL NOTES:

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

2. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET ARE "SIGNS, TYPE II".

3. UNLESS OTHERWISE NOTED, TYPE II SIGNS ON THIS SHEET SHALL HAVE "TYPE H REFLECTIVE SHEETING" AND, "TYPE H MESSAGE MATERIAL". TYPE I SIGNS SHALL HAVE TYPE SH REFLECTIVE SHEETING.

4. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET SHALL HAVE A GREEN BACKGROUND AND WHITE MESSAGE.

5. TYPE II SIGNS ALL UPPER CASE MESSAGE (EXCEPT ON SHIELDS OR WHERE OTHERWISE NOTED) SHALL BE "SERIES E. ALL LOWER CASE MESSAGE WITH AN INITIAL UPPER CASE LETTER SHALL BE "SERIES E.

6. TYPE I SIGNS - ALL UPPER CASE MESSAGE (EXCEPT ON SHIELDS OR WHERE OTHERWISE NOTED) SHALL BE SERIES "E" MODIFIED. ALL LOWER CASE MESSAGE WITH AN INITIAL UPPER CASE LETTER SHALL BE SERIES "E" MODIFIED. ALL CAP WORDS ARE "SERIES E"

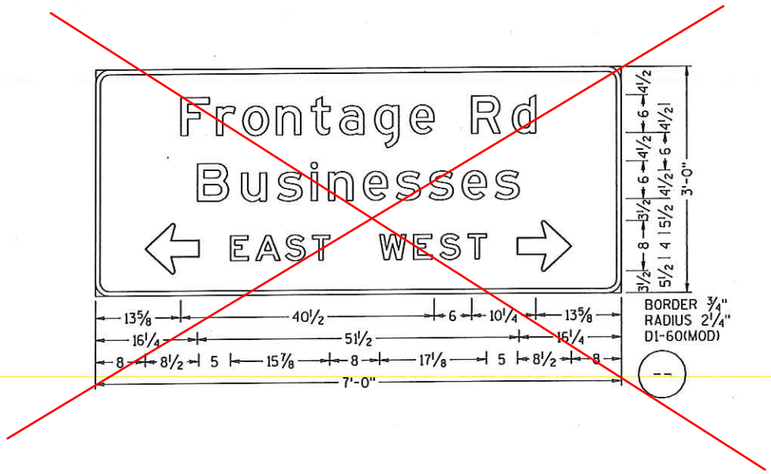
7. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET SHALL HAVE "TYPE A" OR "TYPE C" ARROWS AS SHOWN. SEE THE STANDARD SIGN PLATES FOR FURTHER DETAILS.

8. SEE THE STANDARD SIGN PLATES FOR FURTHER DETAILS ON ROUTE MARKER SHIELDS.

9. THE SIGN NUMBER IS DENOTED IN THE CIRCLE NEAR EACH DETAIL.

10. NUMBER FRACTIONS FOR INTERCHANGE SEQUENCE SIGNS SHALL BE SERIES "E" PER PLATES ALL-7 AND ALL-10

11. DO NOT SCALE.



PROJECT NO: 1030-11-70	HWY: IH-94	COUNTY: RACINE	CONSTRUCTION DETAIL- FIXED MESSAGE SIGN	SCALE: 0 ½" 1"	REVISED SHEET 33	E

FILE NAME : J:\projects\d2_00820200\Tom H\I-94Kenosha_FrontageRdSigns.dgn PLOT DATE : 19-DEC-2011 08:48 PLOT BY : MSCCXV PLOT NAME : PLOT SCALE : 48.125:1 WISDOT/CADDS SHEET 47

CURVE 2

NORTH DRIVEWAY ELIMINATED-
SOUTH DRIVEWAY SHARED BY
BOTH PROPERTIES.
EXISTING DRIVEWAYS EXTENDED
TO MEET SOUTH DRIVEWAY

POB PISTA 0+13.89
N=203739.37
E=594249.46

POB PISTA 0+01.05
N=203718.87
E=594249.56

POE PISTA 2+50.00
N=203781.22
E=594475.40

POE PISTA 2+50.00
N=203761.27
E=594487.36

MICHEL COURT

NORTH DRIVEWAY

SOUTH DRIVEWAY

R/L NORTH DRIVEWAY

R/L SOUTH DRIVEWAY

R/L SOUTH DRIVEWAY

GRADE TO DRAIN TO RAMP DITCH

MATCH EXISTING

MATCH EXISTING

CURVE 1
PI = 1+77.08
N = 203716.15
E = 594425.57
Δ = 37°01'05"
D = 37°26'54"
R = 153.00
T = 51.22
L = 98.85
E = 8.35
PC = 1+25.86
N = 203716.94
E = 594374.35
PT = 2+24.71
N = 203746.35
E = 594466.93

CURVE 2
PI = 1+93.46
N = 203753.21
E = 594426.29

LEGEND
- DR01 CONCRETE DRIVEWAY, 6-INCH
- DR04 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- SW01 SAWING ASPHALT

DRIVEWAY TYPICAL SECTION

EXISTING GROUND
ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
8" BASE AGGREGATE DENSE 3/4-INCH
EXISTING GROUND
6" BASE AGGREGATE DENSE 3/4-INCH

NORTH DRIVEWAY

VPISTA 0+24.06
VPIEL 778.59
1.19%
VCL 50'
K = 32
VPC STA 0+55.00
VPC EL 778.95
VPISTA 0+80.00
VPIEL 779.25
HP STA 0+92.60
HP EL 779.18
VPT STA 1+05.00
VPT EL 779.15
-0.39%
VPC STA 1+20.00
VPC EL 779.09
PROPOSED ELEVATIONS
VPISTA 1+70.00
VPIEL 778.90
VCL 100'
K = 18
EXISTING ELEVATIONS
-6.04%
-7.00%
VPT STA 2+20.00
VPT EL 775.88
VPISTA 2+25.00
VPIEL 775.58
VPISTA 2+30.30
VPIEL 775.21

NOTE:
SEE CROSS SECTIONS AFTER MICHEL COURT CROSS SECTIONS

SOUTH DRIVEWAY

VPISTA 0+13.70
VPIEL 779.10
0.82%
VCL 50'
K = 40
VPC STA 0+45.69
VPC EL 779.36
VPISTA 0+70.69
VPIEL 779.57
HP STA 0+78.59
HP EL 779.50
VPT STA 0+95.69
VPT EL 779.46
-0.43%
VPC STA 1+20.69
VPC EL 779.35
PROPOSED ELEVATIONS
VPISTA 1+70.69
VPIEL 779.14
VCL 100'
K = 15
EXISTING ELEVATIONS
-7.00%
VPT STA 2+20.69
VPT EL 775.64
VPISTA 2+30.30
VPIEL 774.97

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CONSTRUCTION DETAIL: MICHEL COURT DRIVEWAY	SCALE, FEET 0 10 20	SHEET 34	E

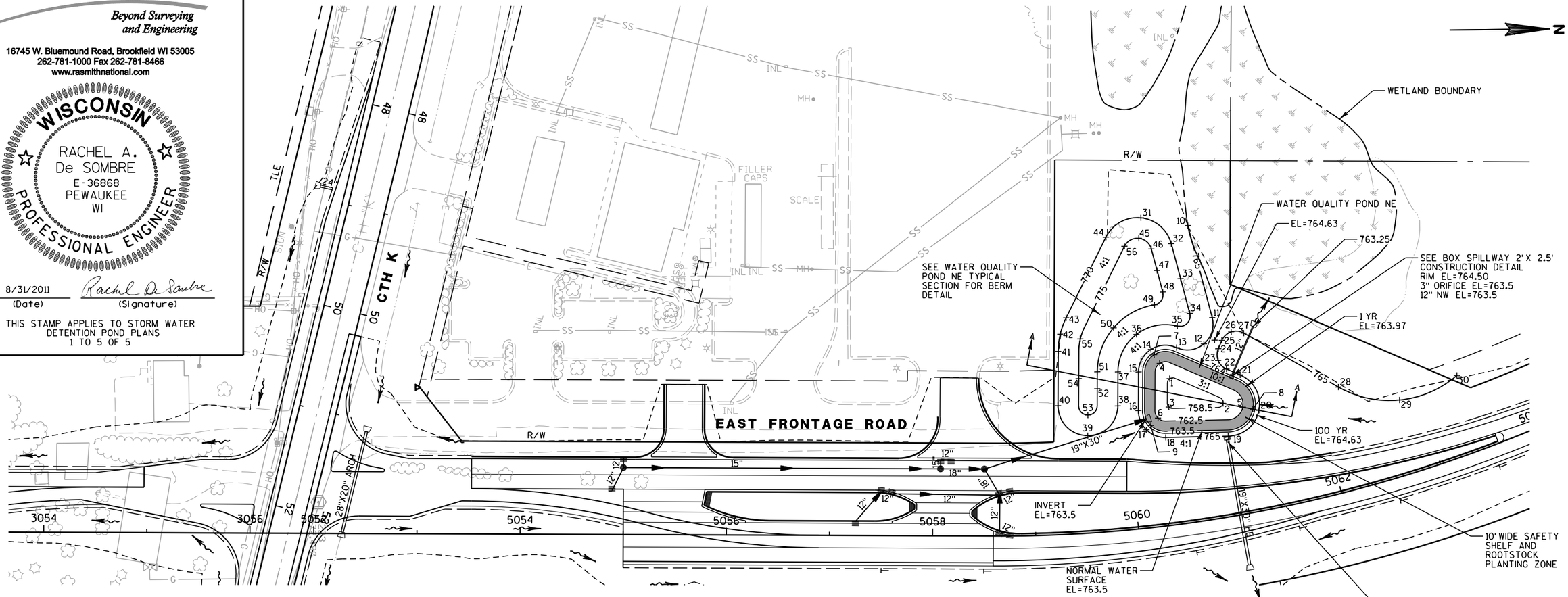
ORIGINAL PLANS PREPARED BY
R.A. Smith National
Beyond Surveying and Engineering

16745 W. Bluemound Road, Brookfield WI 53005
262-781-1000 Fax 262-781-8466
www.rasmithnational.com

WISCONSIN
RACHEL A. De SOMBRE
E-36868
PEWAUKEE
WI
PROFESSIONAL ENGINEER

8/31/2011 (Date)
Rachel A. De Sombre (Signature)

THIS STAMP APPLIES TO STORM WATER DETENTION POND PLANS
1 TO 5 OF 5



PROPOSED CONTOUR ELEVATION 758.5		
POINT	STATION	OFFSET
1	5060+49.9	141.3' LT
2	5061+02.1	109.5' LT
3	5060+44.9	114.11' LT

PROPOSED CONTOUR ELEVATION 762.5		
POINT	STATION	OFFSET
4	5060+41.3	157.2' LT
5	5061+21.7	102.3' LT
6	5060+32.0	104.8' LT

PROPOSED CONTOUR ELEVATION 763.5		
POINT	STATION	OFFSET
7	5060+36.4	166.2' LT
8	5061+31.7	98.6' LT
9	5060+23.5	98.6' LT

PROPOSED CONTOUR ELEVATION 765		
POINT	STATION	OFFSET
10	5060+97.7	285.4' LT
11	5061+07.0	193.2' LT
12	5060+92.7	169.5' LT
13	5060+62.1	170.1' LT
14	5060+33.7	171.7' LT
15	5060+17.2	151.5' LT
16	5060+12.4	114.2' LT
17	5060+18.5	94.9' LT
18	5060+37.5	85.2' LT
19	5061+01.4	77.2' LT
20	5061+37.7	96.3' LT
21	5061+25.6	133.6' LT
22	5061+12.2	141.7' LT
23	5061+05.1	151.2' LT
24	5061+07.5	162.5' LT
25	5061+13.0	169.7' LT
26	5061+24.9	176.2' LT

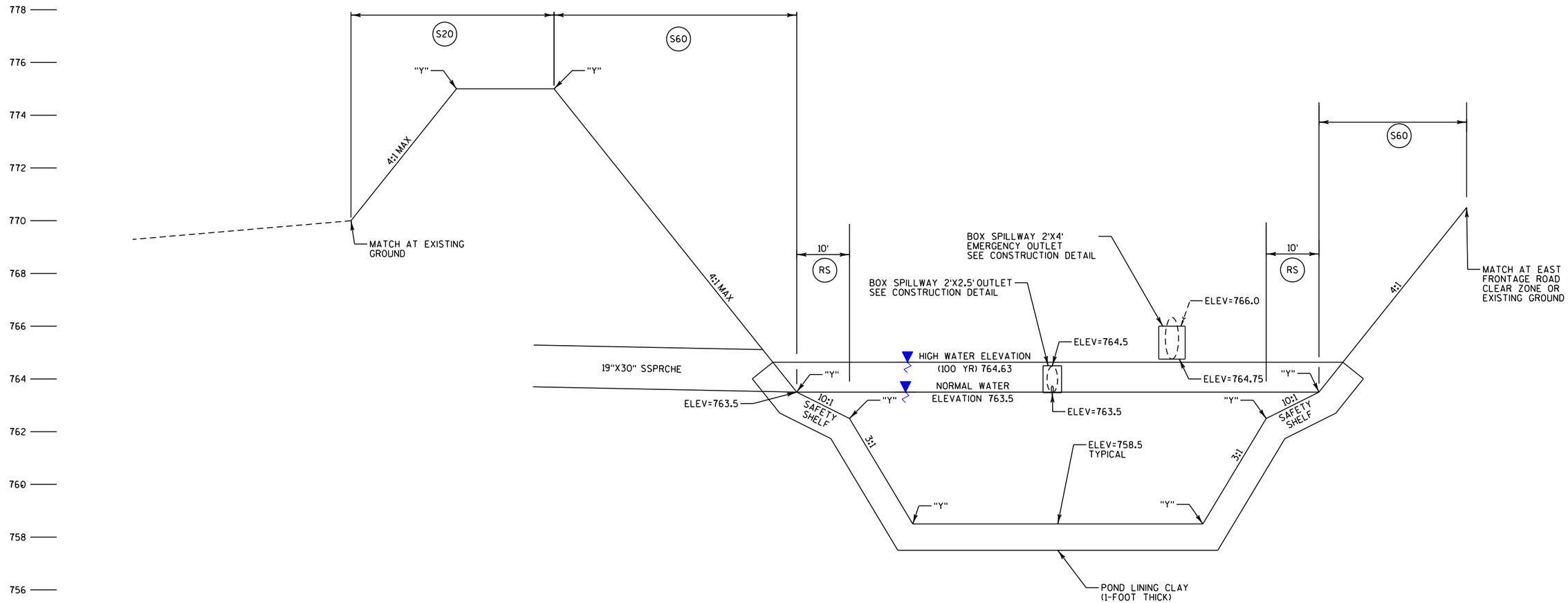
PROPOSED CONTOUR ELEVATION 765 (CONTINUED)		
POINT	STATION	OFFSET
27	5061+38.4	172.6' LT
28	5062+24.3	100.4' LT
29	5062+81.1	71.4' LT
30	5063+45.0	75.9' LT

PROPOSED CONTOUR ELEVATION 770		
POINT	STATION	OFFSET
31	5060+41.8	299.5' LT
32	5060+74.2	270.5' LT
33	5060+78.6	235.7' LT
34	5060+82.7	200.9' LT
35	5060+66.4	190.6' LT
36	5060+19.5	187.8' LT
37	5059+94.8	153.7' LT
38	5059+91.1	120.8' LT
39	5059+57.0	94.4' LT
40	5059+27.5	125.1' LT
41	5059+30.6	177.7' LT
42	5059+33.8	194.2' LT
43	5059+41.5	209.7' LT
44	5059+96.1	284.8' LT

PROPOSED CONTOUR ELEVATION 775		
POINT	STATION	OFFSET
45	5060+36.0	280.1' LT
46	5060+49.4	268.2' LT
47	5060+52.6	246.8' LT
48	5060+55.7	225.4' LT
49	5060+44.1	214.2' LT
50	5059+94.7	196.6' LT
51	5059+72.3	155.5' LT
52	5059+70.7	139.1' LT
53	5059+58.6	114.3' LT
54	5059+51.5	150.2' LT
55	5059+56.2	188.5' LT
56	5060+17.4	274.1' LT

SHEET 1 OF 5

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CONSTRUCTION DETAILS - WATER QUALITY POND NE	SHEET 35	E



LEGEND

(RS) ROOTSTOCK PLANTING ZONE

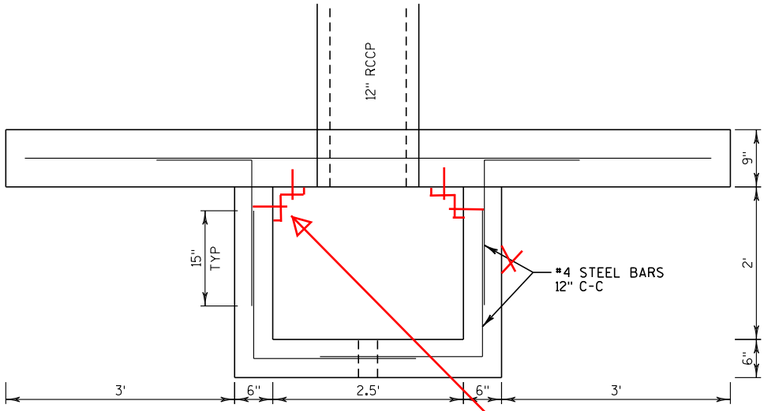
(S20) TOPSOIL, SEEDING MIXTURE NO. 20, FERTILIZER, AND MULCHING SPECIAL

(S60) TOPSOIL, SEEDING MIXTURE NO. 60, FERTILIZER, AND MULCHING SPECIAL

"Y" POINTS REFERENCED ON POND STAKING TABLES

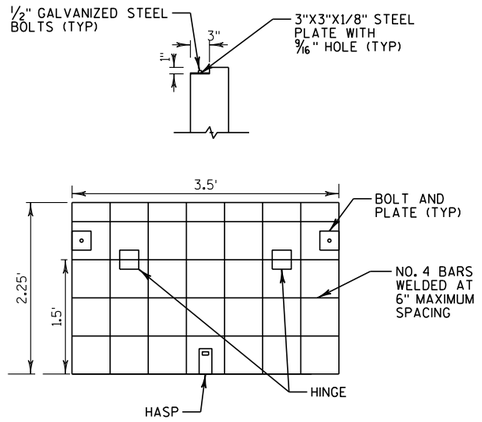
SECTION A-A
PROPOSED TYPICAL SECTION
WATER QUALITY POND NE

(LOOKING WEST)
STA 5059+20 TO STA 5061+20 LT

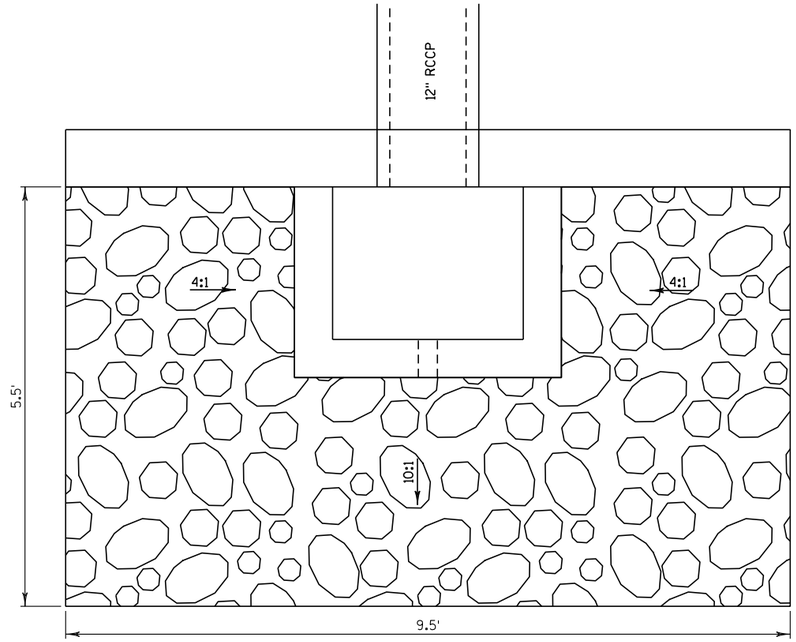


BOX SPILLWAY 2' X 2.5'
PLAN VIEW

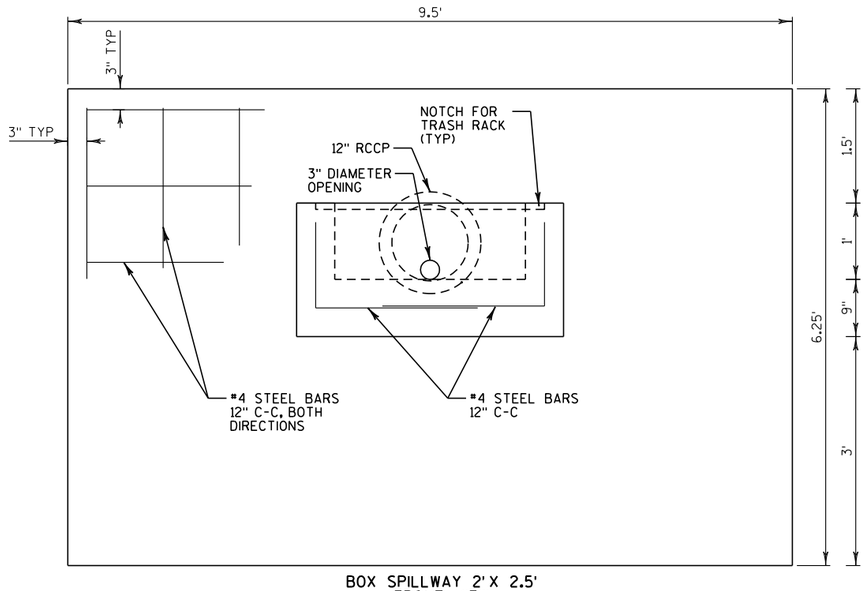
BOX AND WALL WERE MADE IN TWO SEPARATE PRECAST SECTIONS, ATTACHED WITH STEEL ANGLE AND EXPANSION ANCHORS.



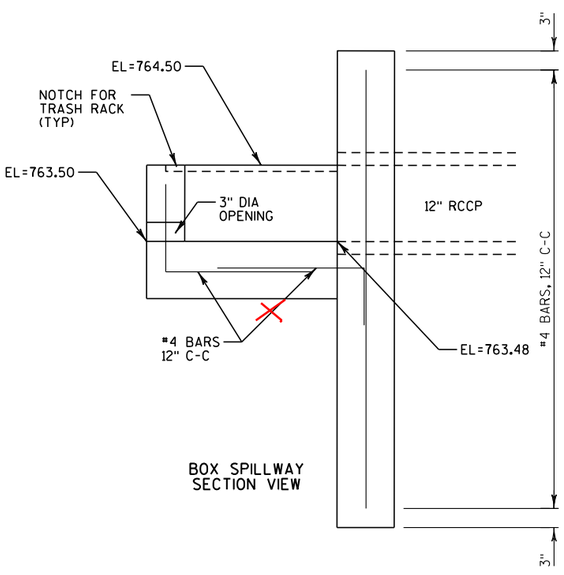
TRASH RACK FOR
BOX SPILLWAY 2'X2.5'



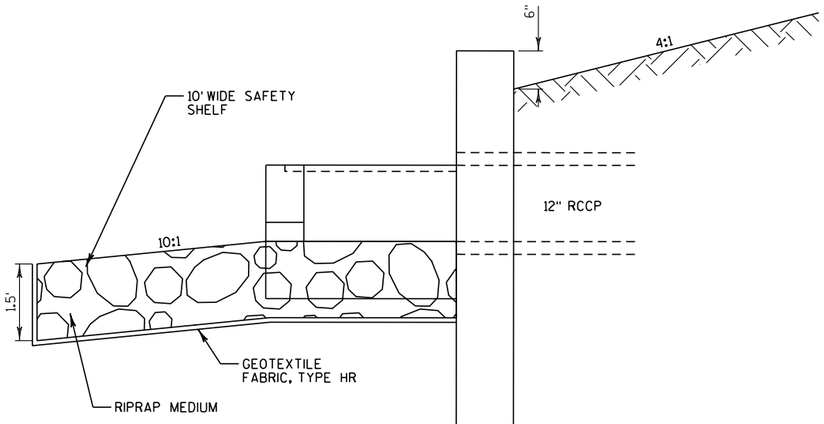
BOX SPILLWAY 2' X 2.5'
RIPRAP PLAN VIEW



BOX SPILLWAY 2' X 2.5'
FRONT VIEW



BOX SPILLWAY
SECTION VIEW



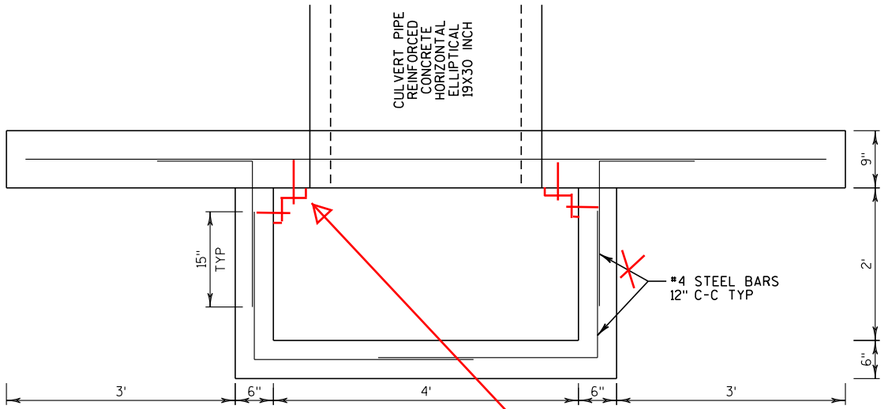
BOX SPILLWAY 2' X 2.5'
RIPRAP SECTION VIEW

BOX SPILLWAY 2' X 2.5' DETAILS

STA 5061+16.7, 134.2' LT

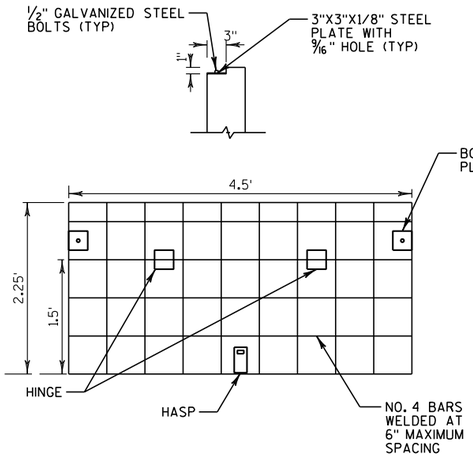
PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CONSTRUCTION DETAILS - WATER QUALITY POND NE	SHEET 37	E

FILE NAME : t:\1052705\cadd\sheets\STORM\EFR_70\021003_cd-ne pond outfall detail.dgn PLOT DATE : 7/27/2012 PLOT BY : trg PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

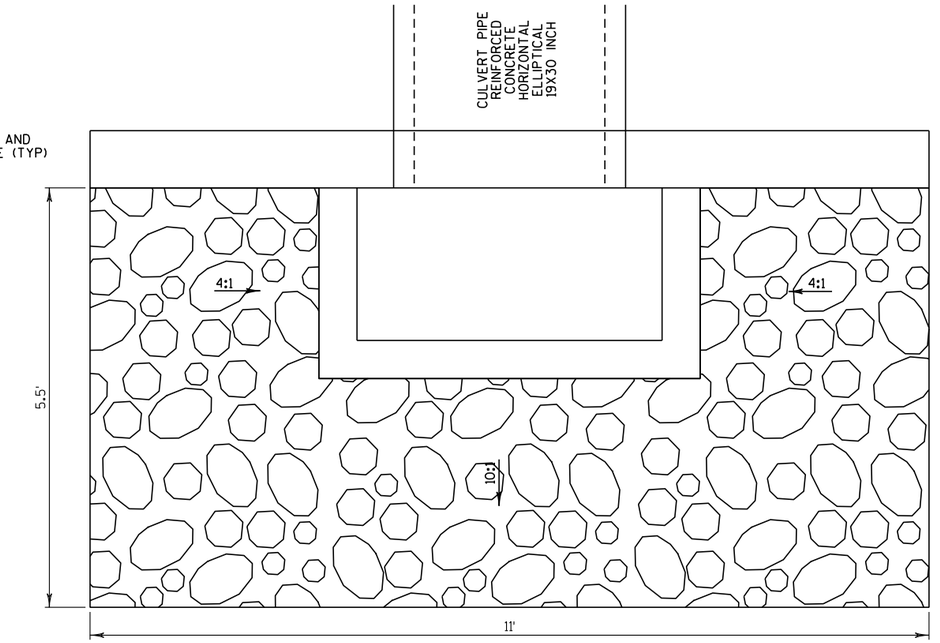


BOX SPILLWAY 2' X 4'
PLAN VIEW

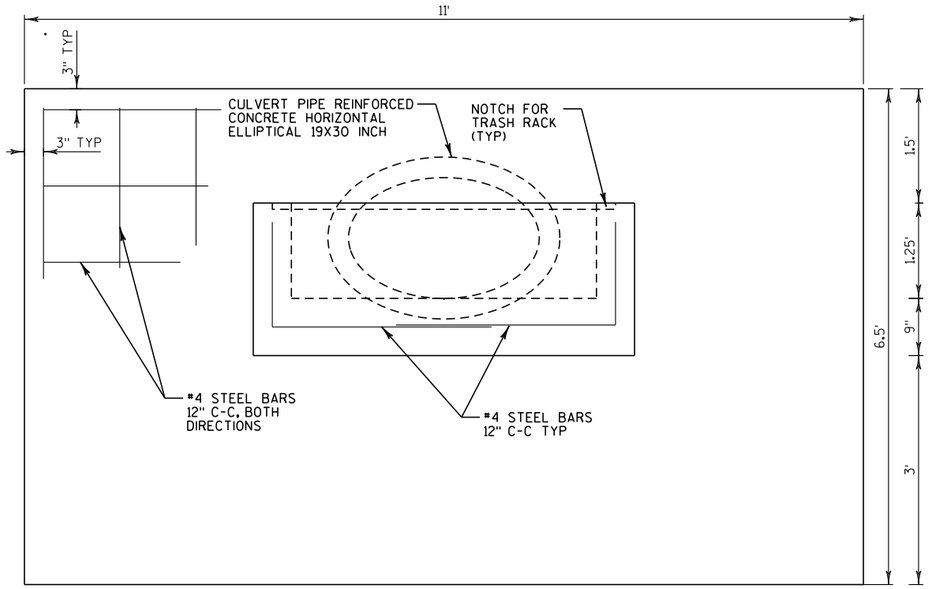
BOX AND WALL WERE MADE IN TWO SEPARATE PRECAST SECTIONS, ATTACHED WITH STEEL ANGLE AND EXPANSION ANCHORS.



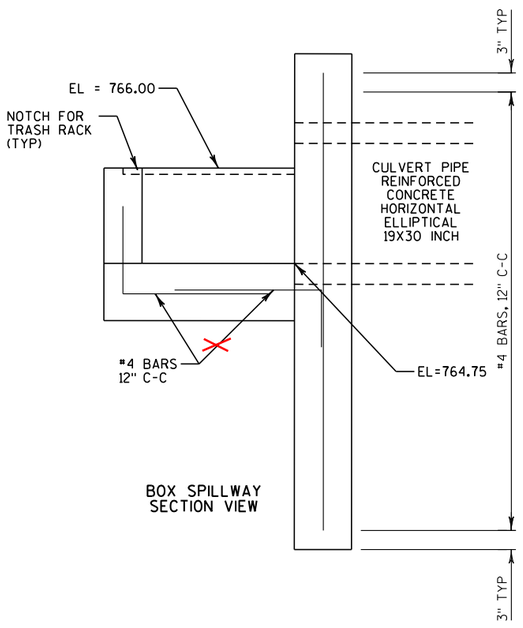
TRASH RACK FOR
BOX SPILLWAY 2'X4'



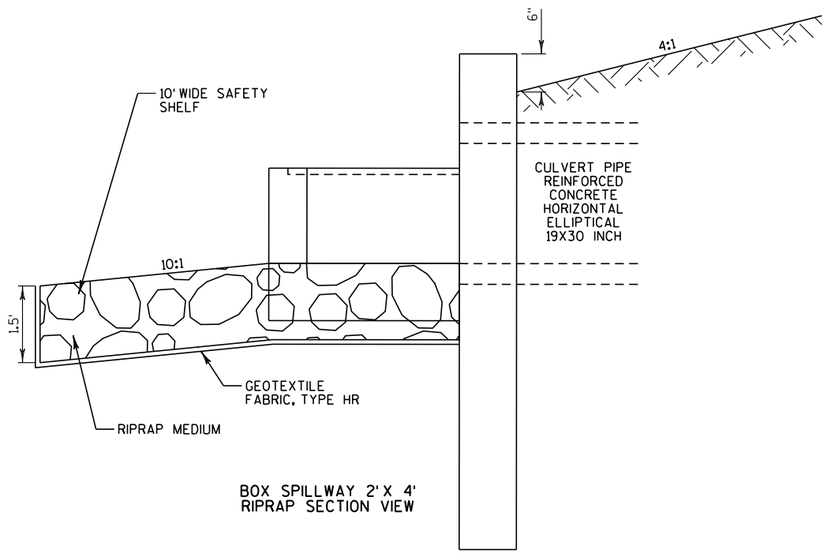
BOX SPILLWAY 2' X 4'
RIPRAP PLAN VIEW



BOX SPILLWAY 2' X 4'
FRONT VIEW



BOX SPILLWAY
SECTION VIEW



BOX SPILLWAY 2' X 4'
RIPRAP SECTION VIEW

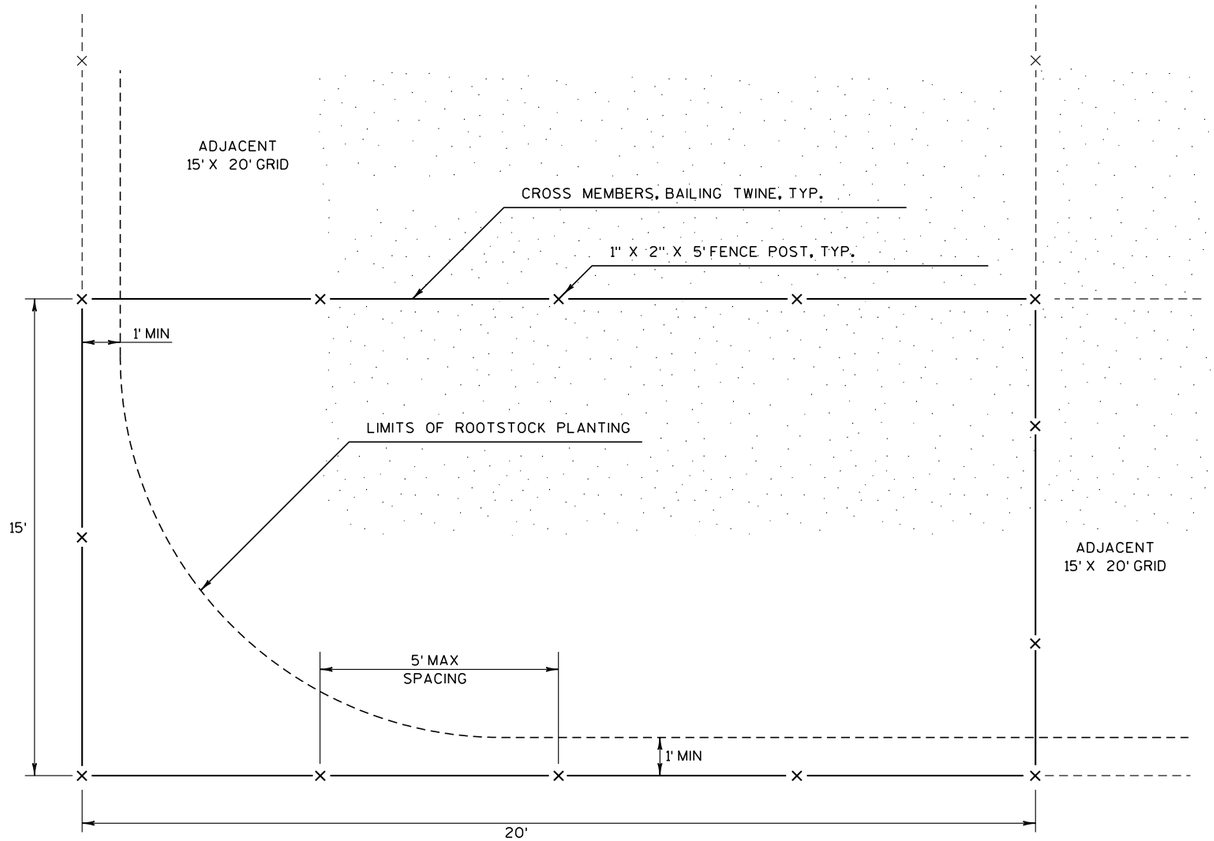
BOX SPILLWAY 2' X 4' DETAILS

STA 5061+00, 71.9' LT

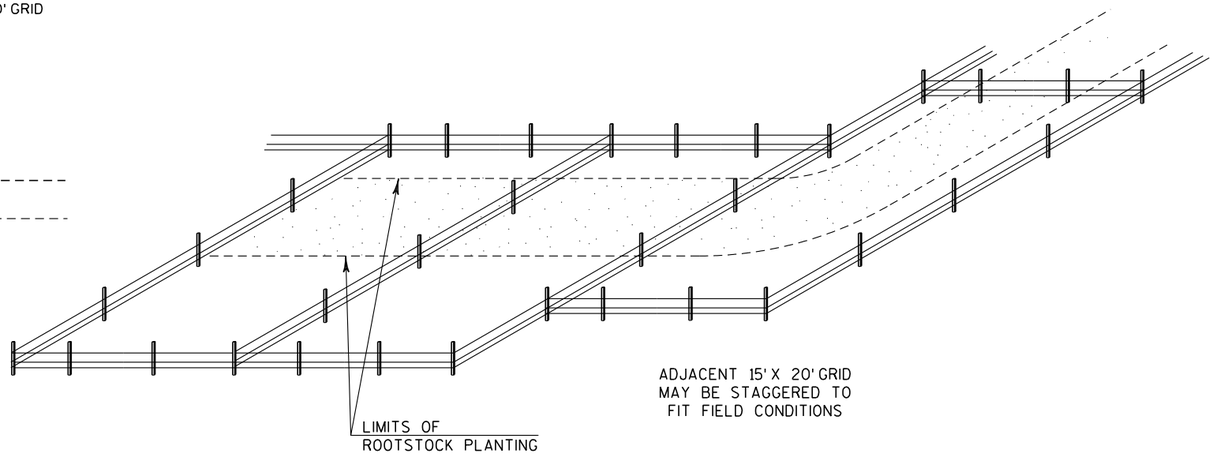
SHEET 4 OF 5

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CONSTRUCTION DETAILS - WATER QUALITY POND NE	SHEET 38	E

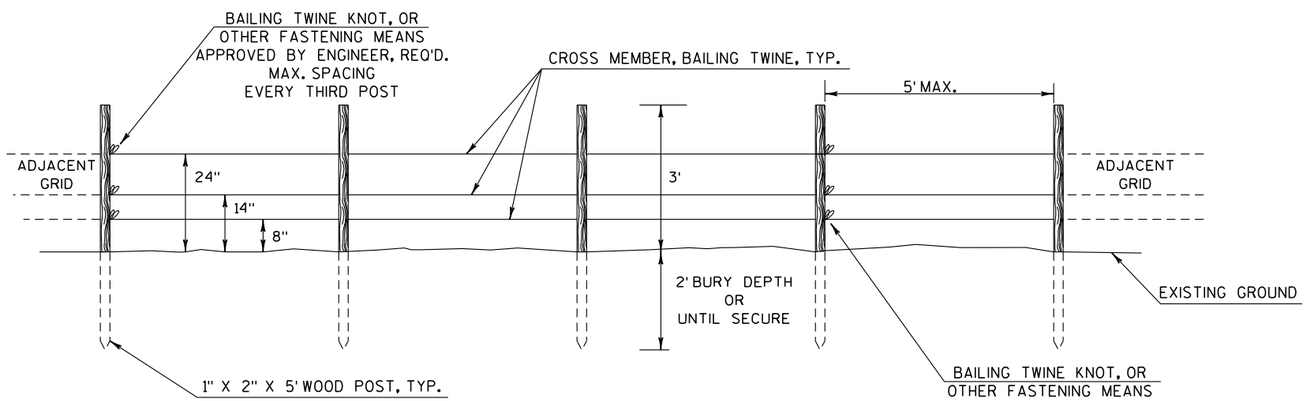
2



PLAN VIEW



ISOMETRIC VIEW



PROFILE VIEW

ROOTSTOCK PROTECTION

SHEET 5 OF 5

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CONSTRUCTION DETAILS - WATER QUALITY POND NE	SHEET 39	E

2

2

IH 94 NB

N

EXISTING RAMP

EXISTING EAST FRONTAGE ROAD

UNDERCUT EBS-
3032+20 TO 3032+28
8' WIDTH x .67' DEPTH
REPLACED WITH
GRANULAR FILL

END PROJECT
I.D. 1030-11-70
STA 3031+00
MATCH PROJECT I.D. 1031-11-77

EAST FRONTAGE ROAD

3030

3031

3032

3033

3034

3035+00

AP03

AG01

DR04

3'

5'

12'

750.71
750.91
751.15
751.81
752.01
752.25
752.91
753.11
753.35
754.10
754.30
754.54
755.47
755.67
755.91
757.02
757.22
757.46
758.76
758.96
759.20
760.58
760.78
761.02
762

+50.03
17.00' RT

+08.97
17.00' RT

+50.03
32.00' RT

15' R

+08.97
32.00' RT

28'

+65.35
60.94' RT

+93.65
60.63' RT

R/L EAST FRONTAGE ROAD

MATCHLINE

LEGEND

(AP03) HMA PAVEMENT TYPE E-3, 5 1/2-INCH

(AG01) BASE AGGREGATE DENSE 3/4-INCH

(DR04) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH

SHEET 1 OF 14

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN DETAIL - EAST FRONTAGE ROAD	SCALE, FEET 0 20 40	SHEET 40	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\021201_pd.dgn PLOT DATE : 22-JUN-2012 12:41 PLOT BY : rmakoutz PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

IH 94 NB

1038SE

1039SE

1040SE

1041SE

RAMP SE

R/L TEMPORARY RAMP SE

EXISTING EAST FRONTAGE ROAD

UNDERCUT EBS-
3038+02 TO 3039+29
10' WIDTH x .67' DEPTH
REPLACED WITH
GRANULAR FILL

UNDERCUT EBS-
3040+00 TO 3040+20-
36' WIDTH x 3' DEPTH
REPLACED WITH
GRANULAR FILL

UNDERCUT EBS-
3040+20 TO 3040+70-
22' WIDTH x 1.5' DEPTH
REPLACED WITH
GRANULAR FILL

EAST FRONTAGE ROAD

EAST FRONTAGE ROAD

SEF SB PGL

3035+00

MATCHLINE

762.41
762.61
762.85

764.18
764.38
764.62

765.88
766.03
766.27

767.70
767.73
767.80

769.52
769.43
769.22

771.24
771.03
770.52

772.79
772.60
771.70

774.02
773.74
773.05

775.12
774.83
774.15

776.06
775.77
775.09

776.86
776.57
775.89

777.51
777.22
776.54

778.02
777.74
776.88

775.20
774.91
774.31

773.88
773.59
772.76

772.09
771.80
771.02

770.01
769.80
770.73

768.98
768.78
767.56
767.36

766.03
765.83
764.38
764.18

762.61
762.41

3036

3037

3038

3039

3040

30

AP03

AG01

DR04

12'

3'

5'

+66.24
17.00' RT

+14.42
17.00' RT

+66.24
32.00' RT

+14.42
32.00' RT

15' R

+81.25
59.71' RT

+98.71
59.80' RT

R/L EAST FRONTAGE ROAD

3041+00

MATCHLINE

LEGEND

(APO3) HMA PAVEMENT TYPE E-3, 5 1/2-INCH

(AG01) BASE AGGREGATE DENSE 3/4-INCH

(DR04) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH

SHEET 2 OF 14

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN DETAIL - EAST FRONTAGE ROAD	SCALE, FEET 0 20 40	SHEET 41	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\021202_pd.dgn PLOT DATE : 22-JUN-2012 12:41 PLOT BY : rmakoutz PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

RAMP SE

1043SE

RADIUS TABLE

POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
1	3044+10.26	86.00' LT	10+86.00	68.00' LT	50'
2	3045+46.26	86.00' LT	10+86.00	68.00' RT	50'

LEGEND

- (APO3) HMA PAVEMENT TYPE E-3, 5 1/2-INCH
- (APO9) HMA PAVEMENT TYPE E-1, 5-INCH
- (AGO1) BASE AGGREGATE DENSE 3/4-INCH
- (CGO7) CONCRETE CURB AND GUTTER 30-INCH TYPE D
- (PV11) CONCRETE SURFACE DRAINS

SEE CONSTRUCTION DETAILS FOR MICHEL COURT DRIVEWAY INFORMATION

MATCHLINE

EBS UNDERCUT-
11+00 TO 12+10,
44' WIDTH x 1' DEPTH
REPLACED WITH
GRANULAR FILL

FLUMES REPLACED
WITH INLETS-
SEE STORM SEWER
PLANS

EBS UNDERCUT-
3043+50 TO 3046+00
60' WIDTH x 1.5' DEPTH
REPLACED WITH
BREAKER RUN

ASPHALT FLUME

EAST FRONTAGE ROAD

MICHEL COURT

R/L EAST FRONTAGE ROAD

R/L MICHEL COURT

SEF SB PGL

SEF NB PGL

3044+78.26 EAST FRONTAGE ROAD=
10+00.00 MICHEL COURT

WALLS

SHEET 3 OF 14

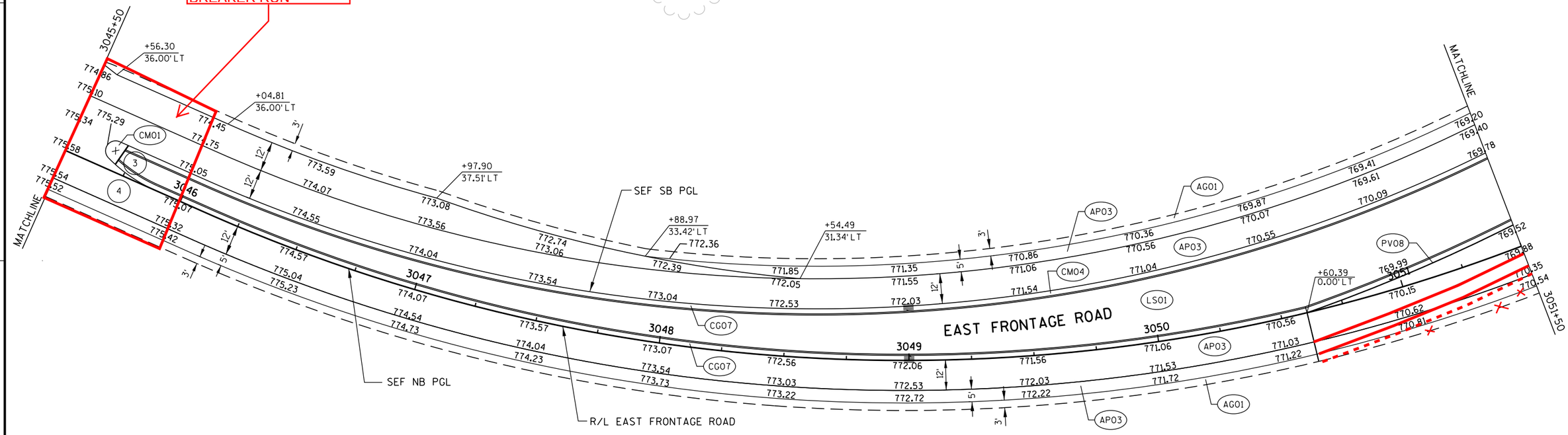
PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN DETAIL - EAST FRONTAGE ROAD	SCALE, FEET 0 20 40	SHEET 42	E

2

RADIUS TABLE

POINT	STATION	OFFSET	RADIUS
3	3045+68.16	8.00' LT	4'
4	3045+88.94	60.00' LT	60'

EBS UNDERCUT-
3043+50 TO 3046+00
60' WIDTH x 1.5' DEPTH
REPLACED WITH
BREAKER RUN



LEGEND

- APO3 HMA PAVEMENT TYPE E-3, 5 1/2-INCH
- AGO1 BASE AGGREGATE DENSE 3/4-INCH
- CGO7 CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CMO1 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- CMO4 MAINTENANCE OPENING, SEE CONSTRUCTION DETAIL
- LSO1 SOD LAWN
- PVO8 ASPHALTIC CURB

SHEET 4 OF 14

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN DETAIL - EAST FRONTAGE ROAD	SCALE, FEET 0 20 40	SHEET 43	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\021204_pd.dgn PLOT DATE : 22-JUN-2012 12:41 PLOT BY : rmakoutz PLOT NAME : PLOT SCALE : 40:1

LEGEND

- AP03 HMA PAVEMENT TYPE E-3, 5 1/2-INCH
- AP09 HMA PAVEMENT TYPE E-1, 5-INCH
- AP13 HMA PAVEMENT TYPE E-10, 7 1/2-INCH
- AG01 BASE AGGREGATE DENSE 3/4-INCH
- CG06 CONCRETE CURB AND GUTTER 30-INCH TYPE A
- CG07 CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CM01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- CM04 MAINTENANCE OPENING, SEE CONSTRUCTION DETAIL
- CM06 CONCRETE SAFETY ISLAND
- CP09 CONCRETE PAVEMENT 9 1/2-INCH, DOWELED AND TINED
- DR01 CONCRETE DRIVEWAY 6-INCH
- DR03 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DR04 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- PV05 ASPHALTIC FLUME
- PV08 ASPHALTIC CURB
- SW01 SAWING ASPHALT
- LS01 SOD LAWN

EBS UNDERCUT-
3053+30 TO 3055+00
56' WIDTH x 2' DEPTH
REPLACED WITH
BREAKER RUN

EAST FRONTAGE ROAD

SEF SB PGL

TEMPORARY NB PGL

R/L EAST FRONTAGE ROAD

MATCHLINE

CTH K WB PGL

MATCHLINE 50+50

R/L CTH K

CTH K

5051+93.45 EAST FRONTAGE ROAD=
52+18.84 CTH K WB

3056+18.38 BK =
5051+56.45 AH
EAST FRONTAGE ROAD=
52+27.40 CTH K EB

CTH K EB PGL

MATCHLINE 50+50

RADIUS TABLE

POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
5	3055+77.25	121.00' LT	51+19.19	68.00' RT	50'
6	3055+39.65	39.56' RT	52+84.10	103.44' RT	50'
7	3055+53.64	26.50' LT	52+16.59	69.11' RT	1.5'
8	3056+01.59	25.50' RT	52+06.47	22.23' RT	2.5'
9	3055+99.46	10.62' LT	52+21.45	20.86' RT	2.5'
10	3055+42.84	74.82' RT	53+17.66	92.19' RT	100'

SHEET 5 OF 14

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN DETAIL - EAST FRONTAGE ROAD	SCALE, FEET 0 20 40	SHEET 44 E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\021205_pd.dgn PLOT DATE : 22-JUN-2012 12:41 PLOT BY : rmakoutz PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

MATCHLINE 54+00

N

12'

3'

R/L CTH K

CTH K

55

56

SW01

AG01

AP03

+89.00
+10.18' LT

54

53

52

51

+39.24
1.36' LT

50+21.21
+30.00' LT

50+21.21
+42.00' LT

12'

14

50+82.01
42.00' LT

15

3'

100'R

50'R

771.61

12

CM06

PV08

11

13

772.46

5052

5053

5054

5055

5056

+91.24
73.00' LT

771.50

AP03

CP09

AG01

+52.65
73.00' LT

EAST FRONTAGE ROAD

CG06

+11.24
73.00' LT

+06.24
73.00' LT

5056+50

771.12 770.92 770.72 770.51 770.31 770.11 769.91 769.70 769.50 769.30 769.10 768.90 768.71

771.42 771.22 771.02 770.81 770.61 770.41 770.21 770.00 769.80 769.60 769.40 769.20 769.01

15'

14'

NEF SB PGL

769.85 769.88 769.68 769.48 769.29

+79.09
44.00' LT

CG06

CM01

LS01

19

+76.06
27.73' LT

769.97 769.99 769.37 769.35 769.75

+00.00
44.00' LT

12'

10'

10'

770.60 770.39 770.19

+43.17
32.00' LT

771.46
771.36

5'

3'

771.02
770.82

12'

771.04

770.88

+26.50
27.00' LT

+52.65
32.00' LT

AP03

AG01

770.68

TEMPORARY
NB PGL

770.49 770.28 770.08 769.89 769.74 769.61 769.51

770.49 770.28 770.08 769.89 769.74 769.61 769.51

27'

771.92

+43.17
17.00' LT

771.58

+93.17
17.00' LT

5052

5053

5054

5055

5056

CP09

770.25 770.04 769.84 769.65 769.50 769.37 769.27

+00.00
26.00' RT

14'

3'

769.97 769.76 769.56 769.37 769.22 769.09 768.99

769.85 769.64 769.44 769.25 769.10 768.87 768.97

3'

AP01

AG01

MATCHLINE

AP03

CP09

50'R

+94.52
21.44' RT

16

5051+93.45 EAST FRONTAGE ROAD=
52+18.84 CTH K WB

3056+18.38 BK =
5051+56.45 AH EAST FRONTAGE ROAD=
52+27.40 CTH K EB

AG01

AP03

R/L CTH K

12'

3'

MATCHLINE 54+00

R/L EAST FRONTAGE ROAD

+41.26
145.85' LT

+76.26
145.83' LT

CG06

35'

+41.24
102.99' LT

CP14

+76.24
103.01' LT

17

18

30'R

30'R

RADIUS TABLE

POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
11	5052+18.82	18.50' LT	51+52.17	46.23' lt	2.5'
12	5052+20.95	33.38' LT	51+37.20	44.86' LT	2.5'
13	5052+66.77	17.50' LT	51+42.05	93.11' LT	1.5'
14	5052+77.58	118.82' LT	50+40.98	80.19' LT	100'
15	5052+80.61	82.05' LT	50+76.05	55.64' LT	50'
16	5052+43.17	33.00' RT	52+39.45	56.00' LT	50'
17	5055+11.24	103.00' LT	---	---	30'
18	5056+06.24	103.00' LT	---	---	30'
19	5056+42.92	162.00' LT	---	---	150'

LEGEND

APO3	HMA PAVEMENT TYPE E-3, 5 1/2-INCH
AP13	HMA PAVEMENT TYPE E-10, 7 1/2-INCH
AG01	BASE AGGREGATE DENSE 3/4-INCH
CG06	CONCRETE CURB AND GUTTER 30-INCH TYPE A
CG07	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CM06	CONCRETE SAFETY ISLAND
CP09	CONCRETE PAVEMENT 9 1/2-INCH, DOWELED AND TINED
CP14	CONCRETE PAVEMENT HES 9 1/2-INCH, DOWELED AND TINED
DR01	CONCRETE DRIVEWAY 6-INCH
DR03	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
DR04	AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
SW01	SAWING ASPHALT
LS01	SOD LAWN

REPLACED WITH
REVISED SHEET 45
2-1-2013

SHEET 6 OF 14

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN DETAIL - EAST FRONTAGE ROAD	SCALE, FEET 0 20 40	SHEET 45	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\021206_pd.dgn PLOT DATE : 22-JUN-2012 12:41 PLOT BY : rmakoutz PLOT NAME : PLOT SCALE : 40:1

Plan Revision
1030-11-70
Revised Page 45
February 1, 2013

RADIUS TABLE

POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
11	5052+18.82	18.50' LT	51+52.17	46.23' LT	2.5'
12	5052+20.95	33.38' LT	51+37.20	44.86' LT	2.5'
13	5052+66.77	17.50' LT	51+42.05	93.11' LT	1.5'
14	5052+77.58	118.82' LT	50+40.98	80.19' LT	100'
15	5052+80.61	82.05' LT	50+76.05	55.64' LT	50'
16	5052+43.17	33.00' RT	52+39.45	56.00' LT	50'
17	5054+88.50	6.34' LT	---	---	4'
18	5054+71.15	294.67' LT	---	---	284.66'
19	5056+11.51	61.36' LT	---	---	76.70
20	5055+45.01	15.62' LT	---	---	4'
21	5055+54.72	4.02' LT	---	---	4'
22	5055+11.24	103.00' LT	---	---	30'
23	5056+06.24	103.00' LT	---	---	30'
24	5056+42.92	162.00' LT	---	---	150'
25	5052+16.55	206.00' RT	---	---	250'
26	5055+60.70	1117.94' LT	---	---	1117.94'

MATCHLINE 54+00

R/L CTH K

+89.00
+10.18' LT

+39.24
1.36' LT

50+21.21
+30.00' LT

50+21.21
+42.00' LT

50+82.01
42.00' LT

+94.62
21.44' RT

5051+93.45 EAST FRONTAGE ROAD=
52+18.84 CTH K WB

3056+18.38 BK =
5051+56.45 AH EAST FRONTAGE ROAD=
52+27.40 CTH K EB

CTH K

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

NEF SB PGL

+91.24
73.00' LT

+52.65
73.00' LT

+11.24
73.00' LT

+06.24
73.00' LT

+41.26
145.85' LT

+76.26
145.83' LT

+41.24
102.99' LT

+76.24
103.01' LT

+79.09
44.00' LT

+00.00
44.00' LT

+76.06
27.73' LT

+00.00
22.00' LT

+60.00
22.00' LT

+56.46
15.20' LT

+60.00
26.00' LT

5052 5053 5054 5055 5056

5056+50

MATCHLINE

LEGEND

APO3	HMA PAVEMENT TYPE E-3, 5 1/2-INCH
AP13	HMA PAVEMENT TYPE E-10, 7 1/2-INCH
AGO1	BASE AGGREGATE DENSE 3/4-INCH
CGO6	CONCRETE CURB AND GUTTER 30-INCH TYPE A
CGO7	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CMO1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CMO6	CONCRETE SAFETY ISLAND
CPO9	CONCRETE PAVEMENT 9 1/2 INCH, DOWELED AND TINED
CP14	CONCRETE PAVEMENT HES 9 1/2-INCH, DOWELED AND TINED
DRO1	CONCRETE DRIVEWAY 6-INCH
DRO3	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
DRO4	AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
PVO8	ASPHALTIC CURB
SWO1	SAWING ASPHALT
LSO1	SOD LAWN

REPLACED WITH
REVISED SHEET 45
5-16-2013

SHEET 6 OF 14

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN DETAIL - EAST FRONTAGE ROAD	SCALE, FEET 0 20 40	~~REVISED SHEET 45~~	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\021206_pd.dgn PLOT DATE : 01-FEB-2013 09:33 PLOT BY : ceven PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

MATCHLINE 54+00

N

12'

3'

R/L CTH K

55

SW01

AG01

AP03

+89.00
+10.18' LT

56

+39.24
1.36' LT

R/L CTH K

CTH K

51

52

SW01

50+21.21
+30.00' LT

50+21.21
+42.00' LT

12'

14

50+82.01
42.00' LT

AG01

15

3' AG01

40'R

50'R

3'

100'R

771.61

12

CM06

PV08

11

13

AP03

772.46

772.40

25

+56.46
15.20' LT

26'

771.92

771.86

5052

5053

771.56

771.50

771.18

771.12

50'R

16

+94.52
21.44' RT

5051+93.45 EAST FRONTAGE ROAD=
52+18.84 CTH K WB

3056+18.38 BK =
5051+56.45 AH EAST FRONTAGE ROAD=
52+27.40 CTH K EB

AG01

53

AP03

R/L CTH K

12'

3'

MATCHLINE 54+00

RADIUS TABLE

POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
11	5052+18.82	18.50' LT	51+52.17	46.23' LT	2.5'
12	5052+20.95	33.38' LT	51+37.20	44.86' LT	2.5'
13	5052+66.77	17.50' LT	51+42.05	93.11' LT	1.5'
14	5052+77.58	118.82' LT	50+40.98	80.19' LT	100'
15	5052+80.61	82.05' LT	50+76.05	55.64' LT	50'
16	5052+43.17	33.00' RT	52+39.45	56.00' LT	50'
17	5054+88.50	6.34' LT	---	---	4'
18	5054+71.15	294.67' LT	---	---	284.66'
19	5056+11.51	61.36' LT	---	---	76.70
20	5055+45.01	15.62' LT	---	---	4'
21	5055+54.72	4.02' LT	---	---	4'
22	5055+11.24	103.00' LT	---	---	30'
23	5056+06.24	103.00' LT	---	---	30'
24	5056+29.58	65.52' LT	---	---	150'
25	5052+16.55	206.00' RT	---	---	250'
26	5055+60.70	1117.94' LT	---	---	1117.94'

N

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EBS UNDERCUT-
5055+00 TO 5061+00
33' WIDTH x 3' DEPTH
REPLACED WITH
BREAKER RUN

EAST FRONTAGE ROAD

+91.24
73.00' LT

AP03

CP09

AG01

+52.65
73.00' LT

CG06

+11.24
73.00' LT

+06.24
73.00' LT

5056+50

771.50
771.42
771.12
771.22
770.92
771.02
770.72
770.81
770.51
770.61
770.31
770.41
770.11
770.00
769.70
769.80
769.50
769.60
769.10
769.40
768.90
769.20
768.71
769.01

15'

14'

NEF SB PGL

772.08
772.21
772.08
771.94
771.70
771.63
771.50
771.30
771.28
771.09
770.89
770.69
770.59
770.37
770.31

+41.26
145.85' LT

+76.26
145.83' LT

CG06

35'

CP14

+41.24
102.99' LT

+76.24
103.01' LT

22

30'R

23

+79.09
44.00' LT

769.85
769.68
769.48
769.29

+00.00
44.00' LT

+60.00
22.00' LT

CM01

LS01

+76.06
27.73' LT

770.05
770.11
770.01

20

18

19

+00.00
22.00' LT

770.64
770.47
770.30

769.91
769.78
769.74

17

DR03

21

5055

5056

769.89
769.74
769.61
769.51

24

+06.71
4.50' LT

+60.00
26.00' LT

769.65
769.50
769.37
769.27

769.56
769.37
769.22
769.09
768.99

769.97
769.85
769.44
769.25
769.10
768.87
768.97

AP03
AG01
CP09

MATCHLINE

EBS UNDERCUT-
5054+00 TO 5054+50
85.5' WIDTH x 3' DEPTH
REPLACED WITH
BREAKER RUN

EBS UNDERCUT-
5054+50 TO 5055+00
115" WIDTH x 3' DEPTH
REPLACED WITH
BREAKER RUN

LEGEND

- APO3 HMA PAVEMENT TYPE E-3, 5 1/2-INCH
- AP13 HMA PAVEMENT TYPE E-10, 7 1/2-INCH
- AG01 BASE AGGREGATE DENSE 3/4-INCH
- CG06 CONCRETE CURB AND GUTTER 30-INCH TYPE A
- CG07 CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CM01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- CM06 CONCRETE SAFETY ISLAND
- CP09 CONCRETE PAVEMENT 9 1/2-INCH, DOWELED AND TINED
- CP14 CONCRETE PAVEMENT HES 9 1/2-INCH, DOWELED AND TINED
- DR01 CONCRETE DRIVEWAY 6-INCH
- DR03 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DR04 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- PV08 ASPHALTIC CURB
- SW01 SAWING ASPHALT
- LS01 SOD LAWN

SHEET 6 OF 14

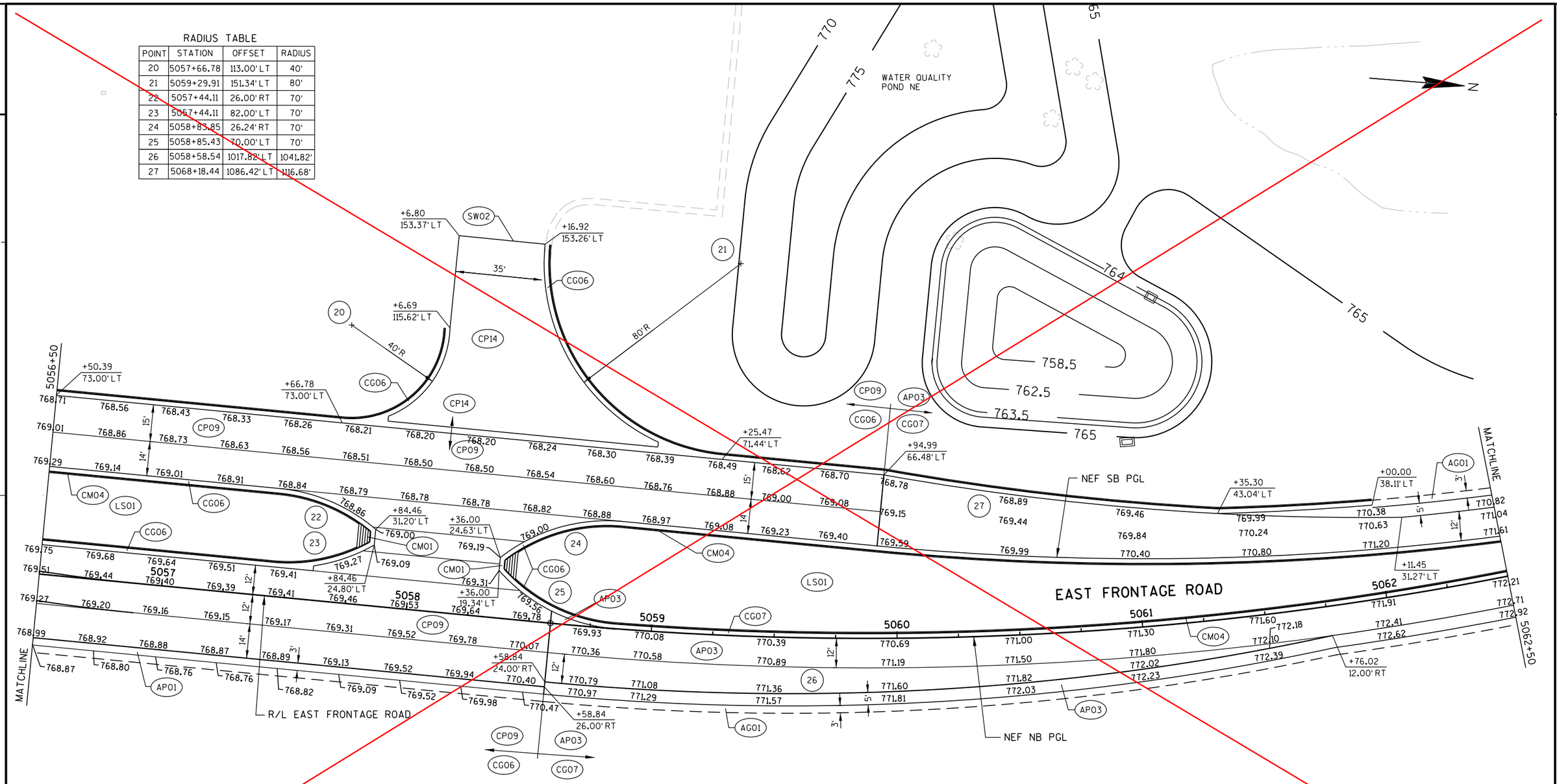
PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN DETAIL - EAST FRONTAGE ROAD	SCALE, FEET 0 20 40	REVISED SHEET 45	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\021206_pd.dgn PLOT DATE : 13-MAY-2013 10:20 PLOT BY : cfranzen PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

RADIUS TABLE

POINT	STATION	OFFSET	RADIUS
20	5057+66.78	113.00' LT	40'
21	5059+29.91	151.34' LT	80'
22	5057+44.11	26.00' RT	70'
23	5057+44.11	82.00' LT	70'
24	5058+83.85	26.24' RT	70'
25	5058+85.43	70.00' LT	70'
26	5058+58.54	1017.82' LT	1041.82'
27	5068+18.44	1086.42' LT	1116.68'



LEGEND

AP03	HMA PAVEMENT TYPE E-3, 5 1/2-INCH
AG01	BASE AGGREGATE DENSE 3/4-INCH
CG06	CONCRETE CURB AND GUTTER 30-INCH TYPE A
CG07	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CM04	MAINTENANCE OPENING, SEE CONSTRUCTION DETAIL
CP09	CONCRETE PAVEMENT 9 1/2-INCH, DOWELED AND TINED
CP14	CONCRETE PAVEMENT HES 9 1/2-INCH, DOWELED AND TINED
SW01	SAWING ASPHALT
SW02	SAWING CONCRETE
LS01	SOD LAWN

REPLACED WITH REVISED SHEET 46 2-1-2013

7 OF 14

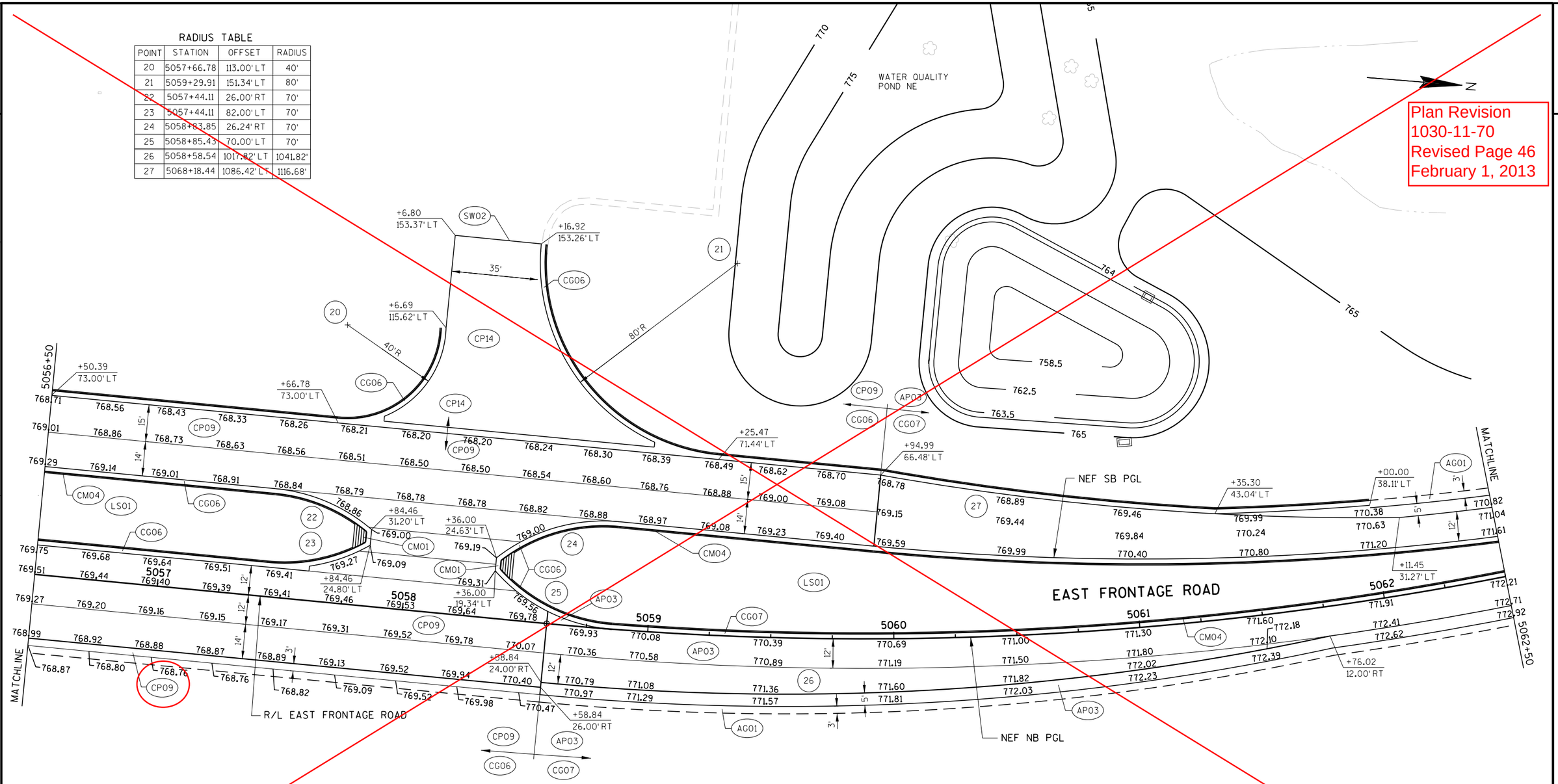
PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN DETAIL - EAST FRONTAGE ROAD	SCALE, FEET 0 20 40	SHEET 46	E

2

RADIUS TABLE

POINT	STATION	OFFSET	RADIUS
20	5057+66.78	113.00' LT	40'
21	5059+29.91	151.34' LT	80'
22	5057+44.11	26.00' RT	70'
23	5057+44.11	82.00' LT	70'
24	5058+83.85	26.24' RT	70'
25	5058+85.43	70.00' LT	70'
26	5058+58.54	1017.82' LT	1041.82'
27	5068+18.44	1086.42' LT	1116.68'

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LEGEND

- (AP03) HMA PAVEMENT TYPE E-3, 5 1/2-INCH
- (AG01) BASE AGGREGATE DENSE 3/4-INCH
- (CG06) CONCRETE CURB AND GUTTER 30-INCH TYPE A
- (CG07) CONCRETE CURB AND GUTTER 30-INCH TYPE D
- (CM01) CONCRETE MEDIAN SLOPED NOSE TYPE 1
- (CM04) MAINTENANCE OPENING, SEE CONSTRUCTION DETAIL
- (CP09) CONCRETE PAVEMENT 9 1/2-INCH, DOWELED AND TINED
- (CP14) CONCRETE PAVEMENT HES 9 1/2-INCH, DOWELED AND TINED
- (SW01) SAWING ASPHALT
- (SW02) SAWING CONCRETE
- (LS01) SOD LAWN

REPLACED WITH
REVISED SHEET 46
5-16-2013

SHEET 7 OF 14

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN DETAIL - EAST FRONTAGE ROAD	SCALE, FEET 0 20 40	~~REVISED SHEET 46~~	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\021207_pd.dgn PLOT DATE : 01-FEB-2013 09:33 PLOT BY : ceven PLOT NAME : PLOT SCALE : 40:1

RADIUS TABLE

POINT	STATION	OFFSET	RADIUS
27	5057+66.78	113.00' LT	40'
28	5059+29.91	151.34' LT	80'
29	5057+44.11	26.00' RT	70'
30	5058+58.54	1017.82' LT	1041.82'
31	5067+44.91	1350.00' LT	1328.00'
32	5068+18.44	1086.42' LT	1116.68'
33	5060+75.02	26.00'LT	4'
34	5057+37.89	1591.49' LT	1600.00'

EBS UNDERCUT-
5055+00 TO 5061+00
33' WIDTH x 3' DEPTH
REPLACED WITH
BREAKER RUN

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EBS UNDERCUT-
5061+00 TO 5061+58
24' WIDTH x 1' DEPTH
REPLACED WITH
GRANULAR FILL

WATER QUALITY
POND NE

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

MATCHLINE

NEF SB PGL

NEF NB PGL

LEGEND

AP03 HMA PAVEMENT TYPE E-3, 5 1/2-INCH	CM05 CONCRETE SIDEWALK, 5-INCH
AG01 BASE AGGREGATE DENSE 3/4-INCH	CP09 CONCRETE PAVEMENT 9 1/2-INCH, DOWELED AND TINED
CG06 CONCRETE CURB AND GUTTER 30-INCH TYPE A	CP14 CONCRETE PAVEMENT HES 9 1/2-INCH, DOWELED AND TINED
CG07 CONCRETE CURB AND GUTTER 30-INCH TYPE D	SW01 SAWING ASPHALT
CM01 CONCRETE MEDIAN SLOPED NOSE TYPE 1	SW02 SAWING CONCRETE
CM04 MAINTENANCE OPENING, SEE CONSTRUCTION DETAIL	LS01 SOD LAWN

SHEET 7 OF 14

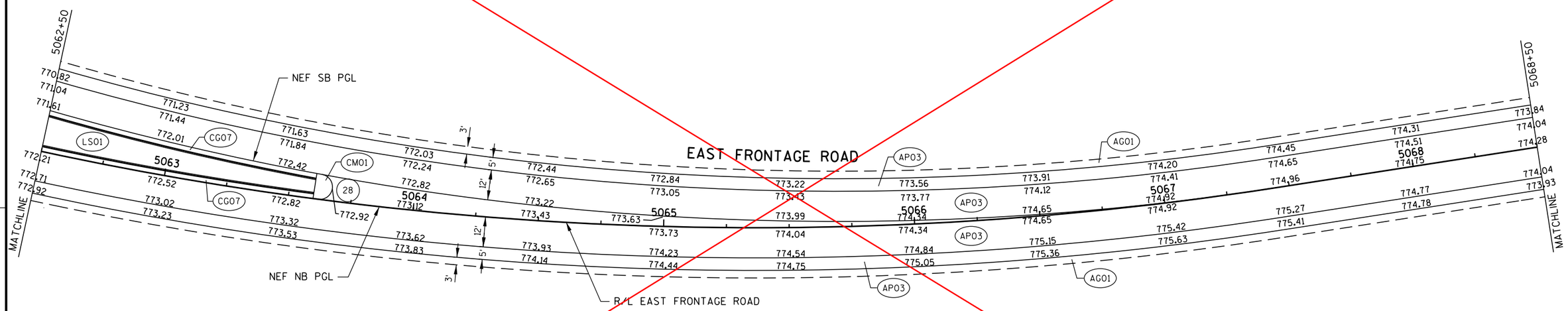
PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN DETAIL - EAST FRONTAGE ROAD	SCALE, FEET 0 20 40	REVISED SHEET 46	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\021207_pd.dgn PLOT DATE : 13-MAY-2013 10:27 PLOT BY : cfranzen PLOT NAME : PLOT SCALE : 40:1

2

RADIUS TABLE

POINT	STATION	OFFSET	RADIUS
28	5063+61.97	5.00' LT	5'



LEGEND

- APO3 HMA PAVEMENT TYPE E-3, 5 1/2-INCH
- AGO1 BASE AGGREGATE DENSE 3/4-INCH
- CGO7 CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CMO1 CONCRETE MEDIAN SLOPED NOSE TYPE-1
- LSO1 SOD LAWN

REPLACED WITH
REVISED SHEET 47
5-16-2013

SHEET 8 OF 14

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN DETAIL - EAST FRONTAGE ROAD	SCALE, FEET 0 20 40	SHEET 47	E

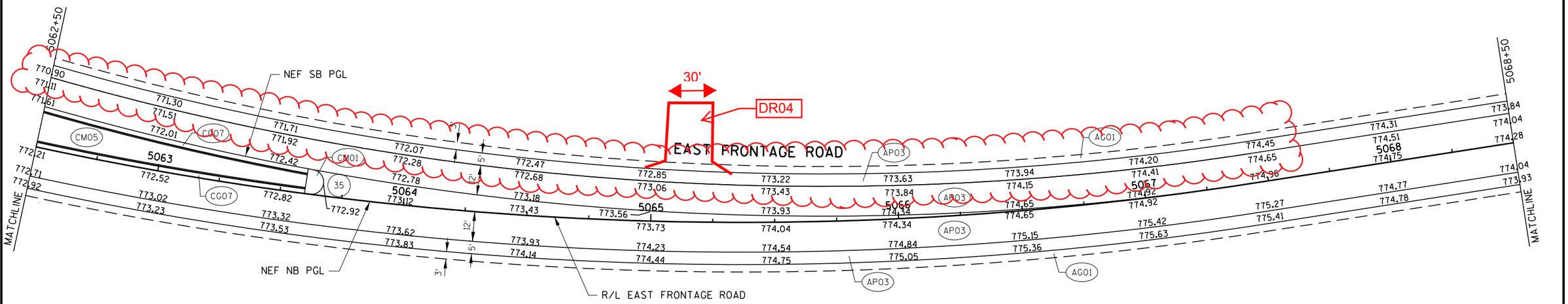
FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\021208_pd.dgn PLOT DATE : 22-JUN-2012 12:41 PLOT BY : rmakoutz PLOT NAME : PLOT SCALE : 40:1

2

RADIUS TABLE

POINT	STATION	OFFSET	RADIUS
35	5063+61.97	5.00' LT	5'

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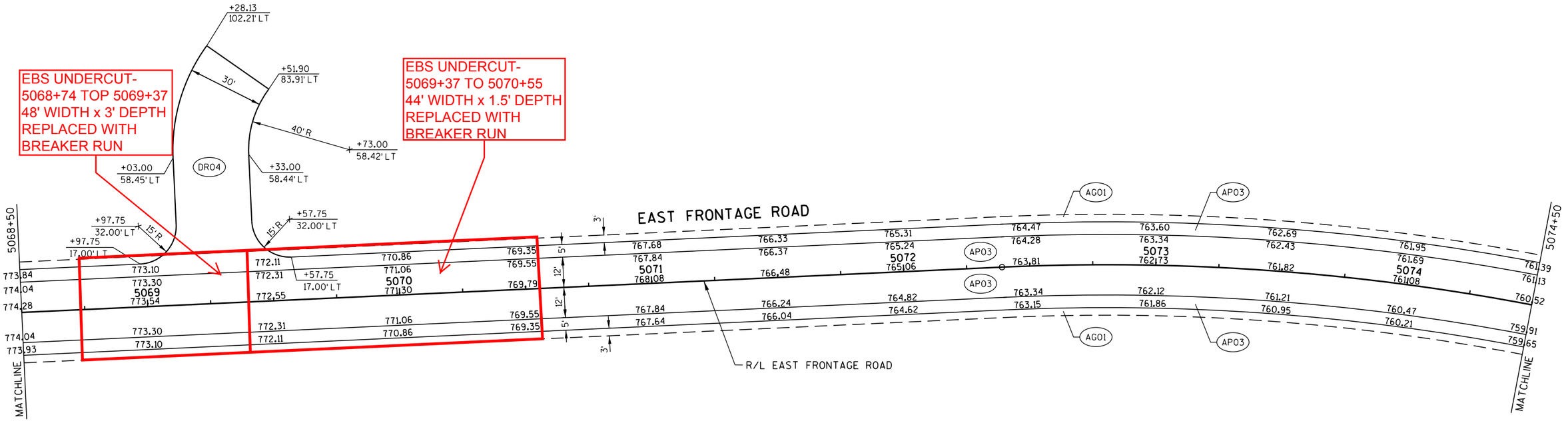
LEGEND

- (APO3) HMA PAVEMENT TYPE E-3, 5 1/2-INCH
- (AG01) BASE AGGREGATE DENSE 3/4-INCH
- (CG07) CONCRETE CURB AND GUTTER 30-INCH TYPE D
- (CM01) CONCRETE MEDIAN SLOPED NOSE TYPE-1
- (LS01) SOD LAWN

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN DETAIL - EAST FRONTAGE ROAD	SCALE, FEET 0 20 40	REVISED SHEET 47	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\021208_pd.dgn PLOT DATE : 13-MAY-2013 10:27 PLOT BY : cfranzen PLOT NAME : PLOT SCALE : 40:1

2



LEGEND

(AP03) HMA PAVEMENT TYPE E-3, 5 1/2-INCH

(AG01) BASE AGGREGATE DENSE 3/4-INCH

(DR04) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN DETAIL - EAST FRONTAGE ROAD	SCALE, FEET 0 20 40	SHEET 48	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\021209_pd.dgn PLOT DATE : 22-JUN-2012 12:41 PLOT BY : rmakoutz PLOT NAME : PLOT SCALE : 40:1

IH 94 SB

IH 94 NB

RAMP NE

R/L IH 94

R/L EAST FRONTAGE ROAD

EAST FRONTAGE ROAD

MATCHLINE STA 5074+50

END PROJECT
I.D. 1030-11-70
STA 5079+50.00
MATCH I.D. 1030-25-77

CONCRETE SURFACE DRAIN

CONCRETE BARRIER 42-INCH THRIE BEAM ANCHORAGE

LEGEND

- APO3 HMA PAVEMENT TYPE E-3, 5 1/2-INCH
- AG01 BASE AGGREGATE DENSE 3/4-INCH
- CG18 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- BG01 MGS THRIE BEAM TRANSITION
- BG02 MGS GUARDRAIL 3
- BG04 MGS GUARDRAIL TERMINAL EAT
- CB12 CONCRETE BARRIER PAN REINFORCED 42-INCH

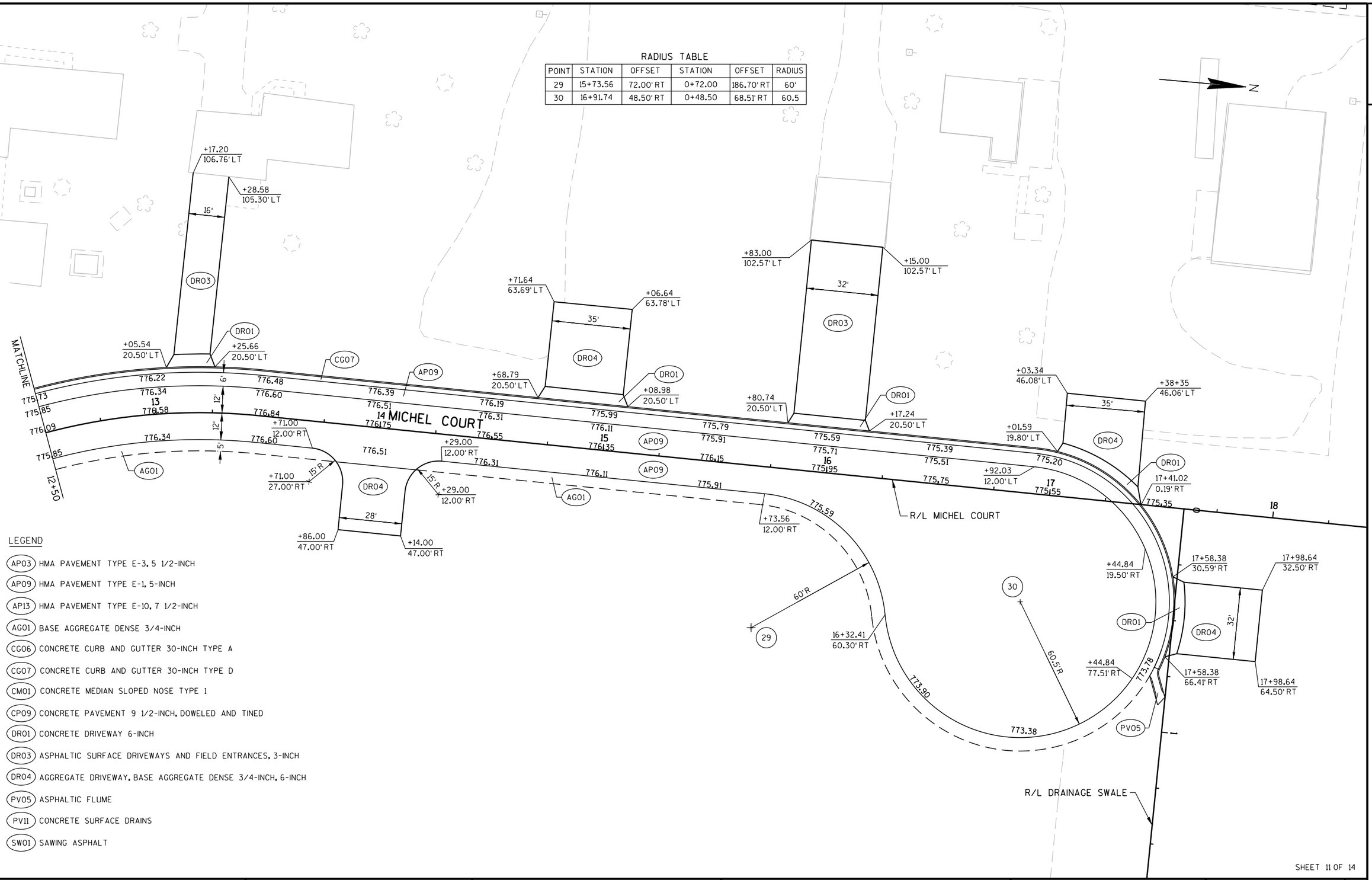
SHEET 10 OF 14

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN DETAIL - EAST FRONTAGE ROAD	SCALE, FEET 0 20 40	SHEET 49	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\021210_pd.dgn PLOT DATE : 22-JUN-2012 12:41 PLOT BY : rmakoutz PLOT NAME : PLOT SCALE : 40:1

RADIUS TABLE

POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
29	15+73.56	72.00' RT	0+72.00	186.70' RT	60'
30	16+91.74	48.50' RT	0+48.50	68.51' RT	60.5



LEGEND

- (AP03) HMA PAVEMENT TYPE E-3, 5 1/2-INCH
- (AP09) HMA PAVEMENT TYPE E-1, 5-INCH
- (AP13) HMA PAVEMENT TYPE E-10, 7 1/2-INCH
- (AG01) BASE AGGREGATE DENSE 3/4-INCH
- (CG06) CONCRETE CURB AND GUTTER 30-INCH TYPE A
- (CG07) CONCRETE CURB AND GUTTER 30-INCH TYPE D
- (CM01) CONCRETE MEDIAN SLOPED NOSE TYPE 1
- (CP09) CONCRETE PAVEMENT 9 1/2-INCH, DOWELED AND TINED
- (DR01) CONCRETE DRIVEWAY 6-INCH
- (DR03) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DR04) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- (PV05) ASPHALTIC FLUME
- (PV11) CONCRETE SURFACE DRAINS
- (SW01) SAWING ASPHALT

SHEET 11 OF 14

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN DETAIL - MICHEL COURT	SCALE, FEET 0 20 40	SHEET 50	E

2

N

IH 94 SB

1036 1037 1038 1039 R/L IH 94 1040 1041 1042

INL INL

IH 94 NB

1038SE +48.22 0.00' LT 1039SE +10.56 0.00' LT SW02 1040SE AP13 1041SE RAMP SE 104 MATCHLINE 1042+00

AP13 R/L RAMP SE AG01 AP13 3" 5"

INL

3036 3037 3038 3039 3040

R/L SEF SB PGL R/L EAST FRONTAGE ROAD

LEGEND

AP13 HMA PAVEMENT TYPE E-10, 7 1/2-INCH

AG01 BASE AGGREGATE DENSE 3/4-INCH

SW02 SAWING CONCRETE

SHEET 12 OF 14

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN DETAIL - RAMP SE	SCALE, FEET 0 20 40	SHEET 51	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\021212_pd.dgn PLOT DATE : 22-JUN-2012 12:42 PLOT BY : rmakoutz PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

N

IH 94 SB

IH 94 NB

R/L IH 94

1043 1044 1045 1046 1047 1048

INL

INL

MATCHLINE 1042+00

MATCHLINE 1048+00

SW02

AP13

AGO1

20'

2'

+51.08
15.00' LT

+16.65
27.58' LT

+17.62
18.00' LT

+53.84
74.34' LT

+54.96
62.38' LT

RAMP SE

R/L RAMP SE

1'

3'

15'

3'

5'

	1042SE	1043SE	1044SE	1045SE	1046SE	1047SE	1048SE
	775.46	776.70	777.56	778.35	779.60	780.18	780.69	781.13	781.50
	775.26	776.40	777.26	778.05	779.42	780.00	780.51	780.95	781.32
		776.20	777.06	777.85	779.22	779.80	780.31	780.75	781.12
				778.95	779.72	780.30	780.81	781.25	781.62
				779.07					
				778.77					
				778.57					

LEGEND

AP13 HMA PAVEMENT TYPE E-10, 7 1/2-INCH

AGO1 BASE AGGREGATE DENSE 3/4-INCH

SW02 SAWING CONCRETE

SHEET 13 OF 14

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN DETAIL - RAMP SE	SCALE, FEET 0 20 40	SHEET 52	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\021213_pd.dgn PLOT DATE : 22-JUN-2012 12:42 PLOT BY : rmakoutz PLOT NAME : PLOT SCALE : 40:1

2

2

N

IH 94 SB

IH 94 NB

R/L IH 94

1049 1050 1051 1052 1053 1054

EBS UNDERCUT-
1048+61 TO 1049+61
30' WIDTH x 2.7' DEPTH
REPLACED WITH
GRANULAR FILL

MILL 2" ASPHALTIC SURFACE AND
OVERLAY WITH 2" HMA PAVEMENT TYPE E-10

1048+00

MATCHLINE

AP13 SW01 AG01

781.50 781.62 781.79 781.91 782.02 782.14 782.21 782.33

1049SE 781.32 781.12 781.64 781.84 781.83 782.03

781.6 781.4

+59.91
15.00' LT

+14.02
18.00' LT

+16.05
22.31' LT

+16.00
8.00' RT

+46.95
5.00' RT

RAMP SE

1050SE 1051SE 1052SE 1053SE 1054S

MATCH
EXISTING
SLOPE

R/L RAMP SE

LEGEND

AP13 HMA PAVEMENT TYPE E-10, 7 1/2-INCH

AG01 BASE AGGREGATE DENSE 3/4-INCH

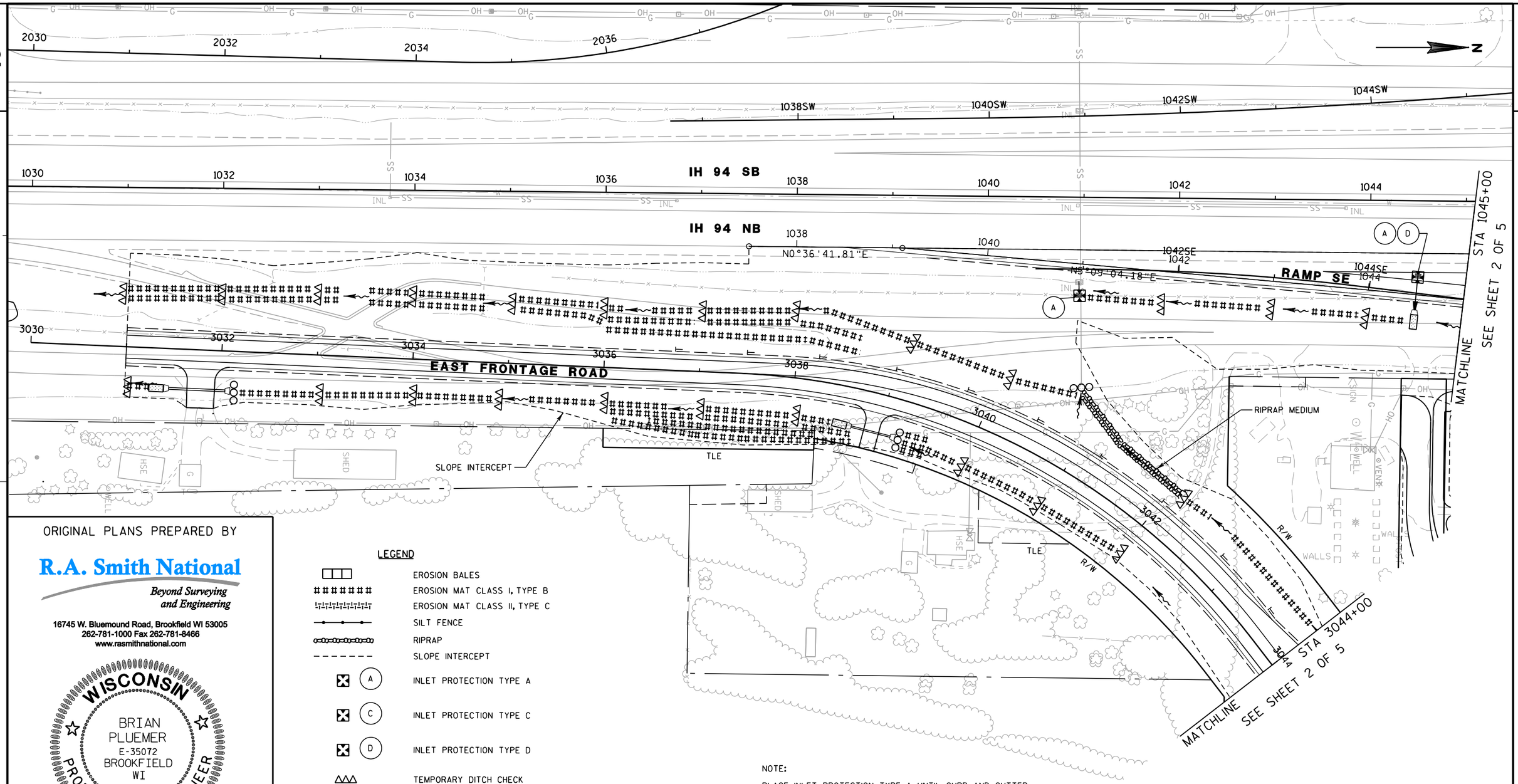
SW01 SAWING ASPHALT

SHEET 14 OF 14

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN DETAIL - RAMP SE	SCALE, FEET 0 20 40	SHEET 53	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\021214_pd.dgn PLOT DATE : 22-JUN-2012 12:42 PLOT BY : rmakoutz PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42



ORIGINAL PLANS PREPARED BY

R.A. Smith National

Beyond Surveying and Engineering

16745 W. Bluemound Road, Brookfield WI 53005
262-781-1000 Fax 262-781-8466
www.rasmithnational.com

WISCONSIN
BRIAN PLUEMER
E-35072
BROOKFIELD WI
PROFESSIONAL ENGINEER

9/15/2010 (Date)

Brian Pluemer (Signature)

THIS STAMP APPLIES TO EROSION CONTROL PLANS 1 TO 5 OF 5

LEGEND

	EROSION BALES
########	EROSION MAT CLASS I, TYPE B
	EROSION MAT CLASS II, TYPE C
	SILT FENCE
	RIPRAP
	SLOPE INTERCEPT
A	INLET PROTECTION TYPE A
C	INLET PROTECTION TYPE C
D	INLET PROTECTION TYPE D
	TEMPORARY DITCH CHECK
	CULVERT PIPE CHECK
PLS	PERMANENT LEVEL SPREADER
	SURFACE WATER FLOW
	SOD EROSION CONTROL
	WETLAND BOUNDARY

NOTE:

PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED, THEN PLACE RESPECTIVE INLET PROTECTION

PLACE SILT FENCE AT SLOPE INTERCEPTS IN WETLANDS AND REINFORCE SILT FENCE WITH EROSION BALES

EROSION MATS SHALL NOT BE INSTALLED IN STANDING WATER

SHEET 1 OF 5

PROJECT NO: 1030-11-70	HWY: IH 94 / CTH K	COUNTY: RACINE	EROSION CONTROL - EAST FRONTAGE RD	SCALE, FEET 0 50 100	SHEET 54	E

2

SEE SHEET 1 OF 5
MATCHLINE STA 1045+00

RAMP SE

SLOPE INTERCEPT

TLE

R/W

SIGN

MICHEL COURT

14 16 18

R/W

TLE

TLE

SLOPE INTERCEPT

SEE SHEET 1 OF 5
MATCHLINE STA 3044+00

3044

EAST FRONTAGE ROAD

3046

3048

3050

R/W

R/W

DRAINAGE SWALE

WETLAND BOUNDARY

A C

STA 3049+90.8, 45.5' RT

STA 3049+54.3, 66.2' RT

REINFORCE SILT FENCE IN WELANDS WITH EROSION BALES (TYP)

WETLAND BOUNDARY

SILT FENCE DRAINAGE OUTLET, EROSION CONTROL FILTER BAGS SEE CONSTRUCTION DETAIL (REMAIN UNTIL PLS IS BUILT)

PLS

STA 3050+94.2, 59.5' RT

STA 3050+20.3, 57.9' RT

STA 3050+06.6, 47.1' RT

3052

MATCHLINE STA 3052+00
SEE SHEET 3 OF 5

LEGEND

- EROSION BALES
- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS II, TYPE C
- SILT FENCE
- RIPRAP
- SLOPE INTERCEPT
- A — INLET PROTECTION TYPE A
- C — INLET PROTECTION TYPE C
- D — INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- PLS — PERMANENT LEVEL SPREADER
- SURFACE WATER FLOW
- SOD EROSION CONTROL
- WETLAND BOUNDARY
- PERMITTED WETLAND IMPACTS

NOTE:

PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED, THEN PLACE RESPECTIVE INLET PROTECTION

PLACE SILT FENCE AT SLOPE INTERCEPTS IN WETLANDS AND REINFORCE SILT FENCE WITH EROSION BALES

EROSION MATS SHALL NOT BE INSTALLED IN STANDING WATER

SHEET 2 OF 5

PROJECT NO: 1030-11-70	HWY: IH 94 / CTH K	COUNTY: RACINE	EROSION CONTROL - EAST FRONTAGE RD	SCALE, FEET 0 50 100	SHEET 55	E

FILE NAME : T:\1052705\Cadd\sheets\EROSION CONTROL\EFR_70\022002_ec.DGN PLOT DATE : 7/26/2012 PLOT BY : trg PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

LEGEND

- EROSION BALES
- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS II, TYPE C
- SILT FENCE
- RIPRAP
- SLOPE INTERCEPT
- A — INLET PROTECTION TYPE A
- C — INLET PROTECTION TYPE C
- D — INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- PLS — PERMANENT LEVEL SPREADER
- SURFACE WATER FLOW
- SOD EROSION CONTROL
- WETLAND BOUNDARY

SEE SHEET 4 OF 5
MATCHLINE

STA 5056+00

EAST FRONTAGE ROAD

N0°49'22.79"E

PERMITTED WETLAND IMPACTS

WETLAND BOUNDARY

SLOPE INTERCEPT

ADAMS ROAD

CTH K

TLE

R/W

N0°54'25.26"E

SEE SHEET 2 OF 5
MATCHLINE

STA 3052+00

NOTE:

PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED, THEN PLACE RESPECTIVE INLET PROTECTION

PLACE SILT FENCE AT SLOPE INTERCEPTS IN WETLANDS AND REINFORCE SILT FENCE WITH EROSION BALES

EROSION MATS SHALL NOT BE INSTALLED IN STANDING WATER

REPLACED WITH REVISED SHEET 56 2-1-2013

PROJECT NO: 1030-11-70	HWY: IH 94 / CTH K	COUNTY: RACINE	EROSION CONTROL - EAST FRONTAGE RD	SCALE, FEET 0 50 100	SHEET 56	E

FILE NAME : t:\1052705\Cadd\sheets\EROSION CONTROL\EFR_70\022003_ec.DGN
PLOT DATE : 8/24/2012
PLOT BY : trg
PLOT NAME :
PLOT SCALE : $$.....plotscale.....$$
WISDOT/CADDS SHEET 42

2

SEE SHEET 4 OF 5

MATCHLINE STA 5056+00

EAST FRONTAGE ROAD

ADAMS ROAD

CTH K

LEGEND

- EROSION BALES
- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS II, TYPE C
- SILT FENCE
- RIPRAP
- SLOPE INTERCEPT
- A — INLET PROTECTION TYPE A
- C — INLET PROTECTION TYPE C
- D — INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- PLS — PERMANENT LEVEL SPREADER
- SURFACE WATER FLOW
- SOD EROSION CONTROL
- WETLAND BOUNDARY

PERMITTED WETLAND IMPACTS

WETLAND BOUNDARY

SLOPE INTERCEPT

TLE

R/W

N

Plan Revision
1030-11-70
Revised Page 56
February 1, 2013

NOTE:

PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED, THEN PLACE RESPECTIVE INLET PROTECTION

PLACE SILT FENCE AT SLOPE INTERCEPTS IN WETLANDS AND REINFORCE SILT FENCE WITH EROSION BALES

EROSION MATS SHALL NOT BE INSTALLED IN STANDING WATER

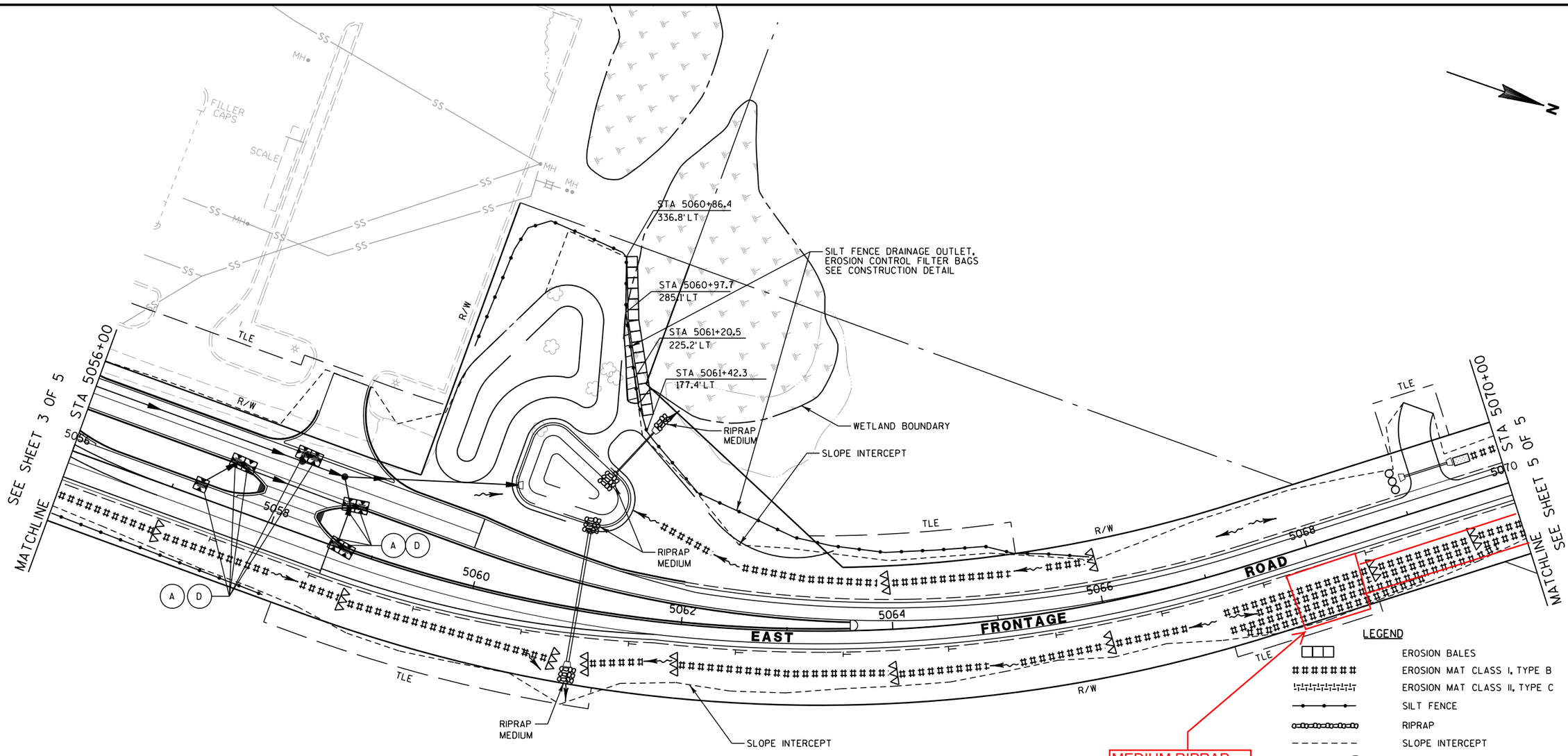
MATCHLINE STA 3052+00
SEE SHEET 2 OF 5

SHEET 3 OF 5

PROJECT NO: 1030-11-70	HWY: IH 94 / CTH K	COUNTY: RACINE	EROSION CONTROL - EAST FRONTAGE RD	SCALE, FEET 0 50 100	REVISED SHEET 56	E

FILE NAME : T:\1052705\Cadd\sheets\EROSION CONTROL\EFR_70\022003_ec.DGN PLOT DATE : 1/28/2013 PLOT BY : trg PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2



NOTE:

PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED, THEN PLACE RESPECTIVE INLET PROTECTION

PLACE SILT FENCE AT SLOPE INTERCEPTS IN WETLANDS AND REINFORCE SILT FENCE WITH EROSION BALES

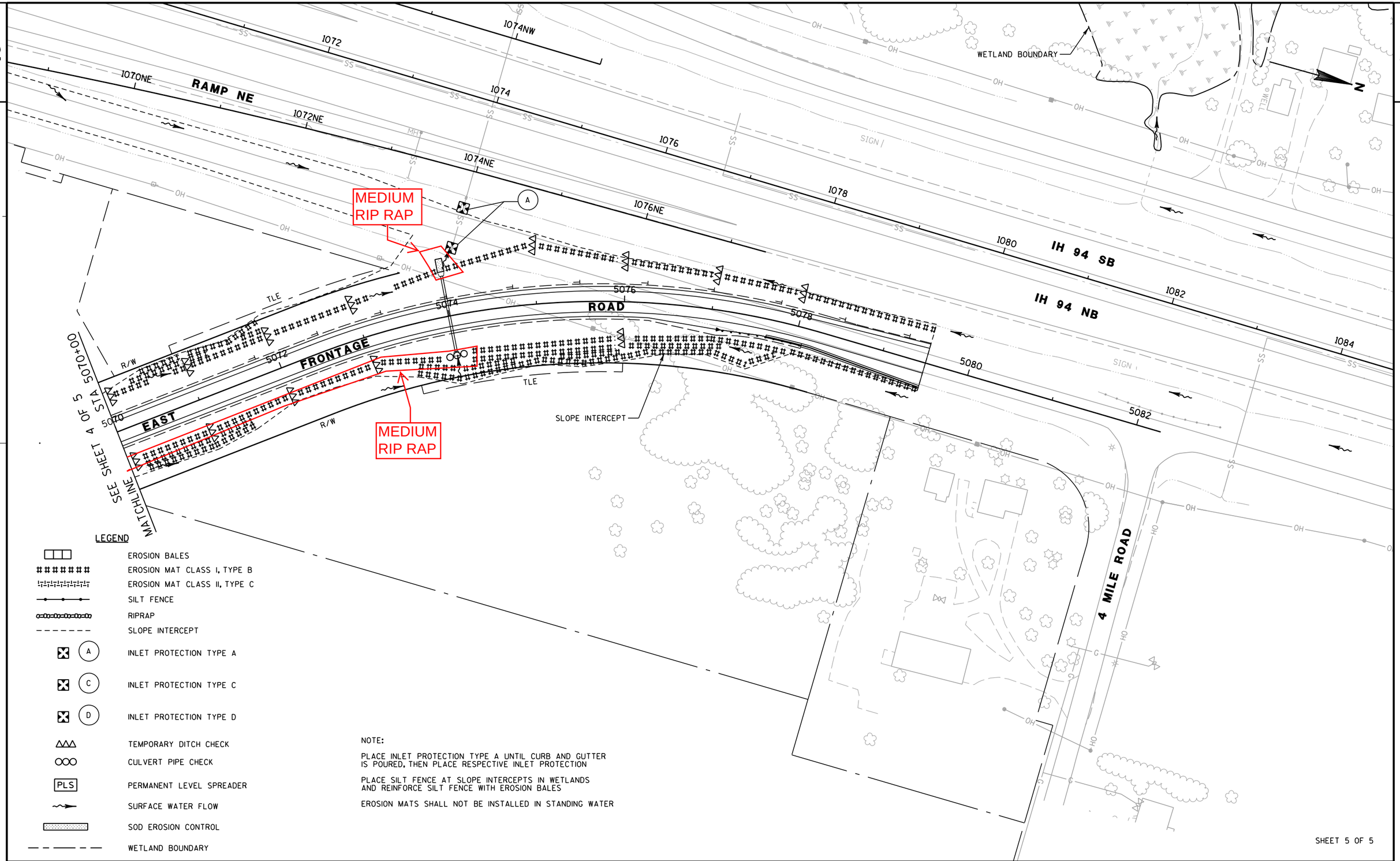
EROSION MATS SHALL NOT BE INSTALLED IN STANDING WATER

LEGEND

- EROSION BALES
- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS II, TYPE C
- SILT FENCE
- RIPRAP
- SLOPE INTERCEPT
- A — INLET PROTECTION TYPE A
- C — INLET PROTECTION TYPE C
- D — INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- PLS — PERMANENT LEVEL SPREADER
- SURFACE WATER FLOW
- SOD EROSION CONTROL
- WETLAND BOUNDARY
- PERMITTED WETLAND IMPACTS

SHEET 4 OF 5

PROJECT NO: 1030-11-70	HWY: IH 94 / CTH K	COUNTY: RACINE	EROSION CONTROL - EAST FRONTAGE RD	SCALE, FEET 0 50 100	SHEET 57	E



LEGEND

- EROSION BALES
- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS II, TYPE C
- SILT FENCE
- RIPRAP
- SLOPE INTERCEPT
- (A) INLET PROTECTION TYPE A
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- PLS PERMANENT LEVEL SPREADER
- SURFACE WATER FLOW
- SOD EROSION CONTROL
- WETLAND BOUNDARY

NOTE:

PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED, THEN PLACE RESPECTIVE INLET PROTECTION

PLACE SILT FENCE AT SLOPE INTERCEPTS IN WETLANDS AND REINFORCE SILT FENCE WITH EROSION BALES

EROSION MATS SHALL NOT BE INSTALLED IN STANDING WATER

SHEET 5 OF 5

PROJECT NO: 1030-11-70	HWY: IH 94 / CTH K	COUNTY: RACINE	EROSION CONTROL - EAST FRONTAGE RD	SCALE, FEET 0 50 100	SHEET 58	E

FILE NAME : T:\1052705\Cadd\sheets\EROSION CONTROL\EFR_70\022005_ec.DGN PLOT DATE : 7/26/2012 PLOT BY : trg PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

ORIGINAL PLANS PREPARED BY

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www.rasmithnational.com

WISCONSIN
RACHEL A. De SOMBRE
E-36868
PEWAUKEE
WI
PROFESSIONAL ENGINEER

8/31/2011 (Date)

Rachel De Sombre (Signature)

THIS STAMP APPLIES TO STORM SEWER PLANS 1 TO 3 OF 3

WEST FRONTAGE ROAD
S 27th ST.
IH 94 R/L
RAMP SW
I 94/USH 41
IH 94 SB
IH 94 NB
RAMP SE R/L
N0°35'39.97"E
N0°36'41.81"E
N5°09'04.18"E
STA 1040+97.5, 18.3'RT
CONCRETE COLLAR
305B
REMOVE INLET
STA 1044+50.0, 20.3'LT
2'X2'-B INLET
304A
STA 1040+98.9, 30.1'RT
INLET MEDIAN 2 GRATE
FIELD VERIFY PIPE
SIZE, LOCATION, AND
ELEVATION PRIOR
TO ORDERING
MATERIALS
305A
STA 1044+50.0, 16.1'RT
12" APRON ENDWALL
304B
SLOPE INTERCEPT
EAST FRONTAGE ROAD R/L
EAST FRONTAGE ROAD
HOE RD
R/W
TLE
SHEET 1 OF 3

REMOVED ADDITIONAL INLET ON TOP OF BOX CULVERT NOT SHOWN ON PLANS, REPLACED WITH TEMPORARY COVER PLATE LEFT IN PLACE

TEMPORARY COVER PLATE LEFT IN PLACE

EXISTING 2'x2' BOX CULVERT

INLET CONNECTED TO EXISTING BOX CULVERT WITH CONCRETE COLLAR

FINISHED PROFILE

EXISTING 30" CMP

CONCRETE COLLAR

762.85

763.40

766.71

30" X 11.8' SSPRC
CL IV @ 4.66%

777.19

773.95

773.59

12" X 36.4' SSPRC
CL IV @ 1.00%

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	STORM SEWER - RAMP SE	SHEET 59 E

FILE NAME : t:\1052705\cadd\sheets\storm\efr_70\022501_ss.dgn PLOT DATE : 7/27/2012 PLOT BY : trg PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 41a

MICHEL COURT R/L

EAST FRONTAGE ROAD R/L

SLOPE INTERCEPT

STA 3052+00, 15.5'LT
4' DIA-H INLET
302D

STA 3049+00.0, 49.7'LT
12" APRON ENDWALL
301C

EAST FRONTAGE ROAD

WETLAND BOUNDARY

STA 3052+37.0, 42.5'LT
2'X3' INLET
WITH COVER PLATE
LEFT IN PLACE
INLET DEPTH TO ACCOMMODATE
FUTURE H COVER
302A

STA 3052+27.0, 42.5'LT
2'X3'-H INLET
302B

DITCH C R/L

SLOPE INTERCEPT

CTH K

STA 5055+00.0, 74.5'LT
2'X3'-H INLET
501C

STA 5055+00.0, 65.0'LT
4' DIA-J-S MANHOLE
501

28"X20" ARCH

WETLAND BOUNDARY

STA 5054+88.9, 42.5'LT
2'X3' INLET
WITH COVER PLATE
LEFT IN PLACE
INLET DEPTH TO ACCOMMODATE
FUTURE H COVER
501B

CTH K R/L

SLOPE INTERCEPT

STA 3049+00.0, 20.2'LT
2'X3'-H INLET
301B

STA 3049+00.0, 1.5'LT
2'X3'-H INLET
301A

STA 3052+27.0, 32.5'RT
15" APRON ENDWALL
302F

STA 3052+37.0, 1.5'LT
2'X3' INLET WITH COVER PLATE
LEFT IN PLACE
INLET DEPTH TO ACCOMMODATE
FUTURE H COVER
302C

STA 3052+27.0, 1.5'LT
5' DIA MANHOLE
WITH COVER PLATE
LEFT IN PLACE
INLET DEPTH TO ACCOMMODATE
FUTURE H COVER
302E

EAST FRONTAGE ROAD R/L

SHEET 2 OF 3

FINISHED PROFILE

301A 772.06
301B 772.03
301C 767.17
768.61
768.05
12" X 18.7' SSPRC CL IV @ 2.99%
12" X 29.5' SSPRC CL IV @ 2.99%

302B 769.48
302A 769.55
302E 769.72
302F 765.00
766.10
766.00
765.59
765.34
12" X 9.9' SSPRC CL IV @ 1.00%
12" X 41.0' SSPRC CL IV @ 1.00%
15" X 34.0' SSPRC CL IV @ 1.00%

302E 769.72
302D 769.19
302C 769.72
765.89
765.59
765.34
765.59
765.69
12" X 30.1' SSPRC CL IV @ 1.00%
12" X 10.0' SSPRC CL IV @ 1.00%

501 770.07
765.85
15" X 307.5' SSPRC CL IV @ 0.40%

501 770.07
501B 770.58
501C 769.91
766.22
12" X 25.1' SSPRC CL IV @ 0.50%
9.5' SSPRC @ 0.50%

780 775 770 765 760

3046 3048 3050 3052 3054 5052 5054 5056

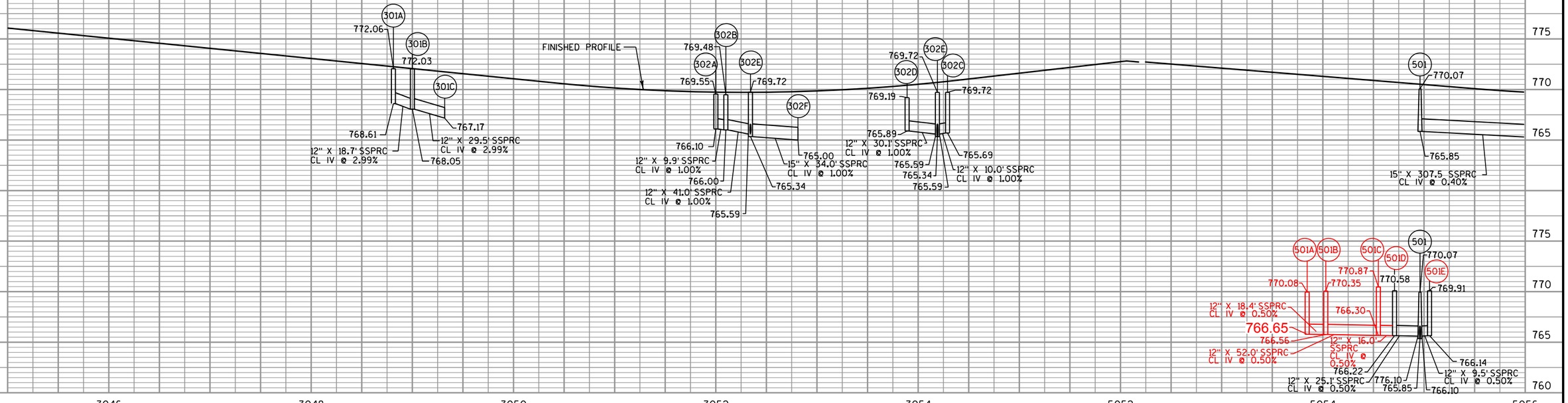
REPLACED WITH REVISED SHEET 60 2-1-2013

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	STORM SEWER - EAST FRONTAGE ROAD	SHEET 60	E

Plan Revision
1030-11-70
Revised Page 60
February 1, 2013

MICHEL COURT R/L
EAST FRONTAGE ROAD R/L
SLOPE INTERCEPT
STA 3052+00, 15.5'LT 302D
4'DIA-H INLET
STA 3049+00.0, 49.7'LT 301C
12" APRON ENDWALL
EAST FRONTAGE ROAD
STA 3052+37.0, 42.5'LT 302A
2'X3' INLET
WITH COVER PLATE
LEFT IN PLACE
INLET DEPTH TO ACCOMMODATE
FUTURE H COVER
WETLAND BOUNDARY
STA 3052+27.0, 42.5'LT 302B
2'X3'-H INLET
DITCH C R/L
SLOPE INTERCEPT
STA 3049+00.0, 20.2'LT 301B
2'X3'-H INLET
STA 3049+00.0, 1.5'LT 301A
2'X3'-H INLET
STA 3052+27.0, 32.5'RT 302F
15" APRON ENDWALL
STA 3052+37.0, 1.5'LT 302C
2'X3' INLET WITH COVER PLATE
LEFT IN PLACE
INLET DEPTH TO ACCOMMODATE
FUTURE H COVER
STA 3052+27.0, 1.5'LT 302E
5'DIA MANHOLE
WITH COVER PLATE
LEFT IN PLACE
INLET DEPTH TO ACCOMMODATE
FUTURE H COVER
EAST FRONTAGE ROAD R/L
CTH K
CTH K R/L
STA 5055+00.0, 74.5'LT 501E
2'X3'-H INLET
STA 5055+00.0, 65.0'LT 501
4'DIA-J-S MANHOLE
STA 5054+88.9, 42.5'LT 501D
4'DIA INLET
WITH COVER PLATE
LEFT IN PLACE
INLET DEPTH TO ACCOMMODATE
FUTURE H COVER
28"X20" ARCH
WETLAND BOUNDARY
SLOPE INTERCEPT
STA 5055+50.2, 1.5'LT 501A
2'X3'-H INLET
STA 5055+40.0, 16.9'LT 501B
4'DIA-H INLET
501C
STA 5054+88.9, 26.5'LT 501C
4'DIA INLET
WITH COVER PLATE
LEFT IN PLACE
INLET DEPTH TO ACCOMMODATE
FUTURE H COVER

SHEET 2 OF 3



PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	STORM SEWER - EAST FRONTAGE ROAD	REVISED SHEET 60	E

FILE NAME : t:\1052705\cadd\sheets\storm\efr_70\022502_ss.dgn PLOT DATE : 1/28/2013 PLOT BY : trg PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 41a

2

502 STA 5058+07.5, 65.0' LT
4' DIA-J-S MANHOLE

502B STA 5058+07.5, 74.0' LT
2'X2.5'-V INLET

502A STA 5058+17.5, 74.0' LT
2'X2.5'-V INLET

503 STA 5058+50.0
65.0' LT
6' DIA-J-S MANHOLE

WETLAND BOUNDARY

506A STA 5061+16.7, 134.2' LT
2' X2.5' BOX SPILLWAY

506B STA 5061+50.0, 177.0' LT
1-12" APRON ENDWALL

STORM WATER QUALITY POND NE
SEE CONSTRUCTION DETAILS

SLOPE INTERCEPT

504 STA 5060+19.0, 105.0' LT
19X30" APRON ENDWALL

EAST FRONTAGE ROAD

EAST FRONTAGE ROAD R/L

SLOPE INTERCEPT

503A STA 5057+25.0, 13.5' LT
4' DIA-H INLET

503B STA 5057+50.0, 42.5' LT
4' DIA-H INLET

503C STA 5057+60.0, 40.6' LT
4' DIA-H INLET

503E STA 5058+65.0, 4.5' LT
2'X3'-H INLET

503F STA 5058+75.0, 41.9' LT
2'X3'-H INLET

503G STA 5058+65.0, 39.7' LT
5' DIA-H MANHOLE

503D STA 5058+75.0, 2.3' LT
2'X3'-H INLET

505A STA 5061+00.0, 73.8' LT
2' X 4' BOX SPILLWAY

505B STA 5061+00.0, 49.1' RT
1-19X30" APRON ENDWALL

SHEET 3 OF 3

FINISHED PROFILE

15" X 307.5' SSPRC
CL IV @ 0.40%

18" X 42.5' SSPRCHE
CL IV @ 0.30%

19"X30" X 163.6' SSPRCHE
CL IV @ 0.40%

19"X30" X 123.0' SSPRCHE
CL IV @ 0.59%

15" X 9.0' SSPRC
CL IV @ 0.40%

12" X 10.0' SSPRC
CL IV @ 0.50%

12" X 52.0' SSPRC
CL IV @ 0.44%

12" X 38.3' SSPRC
CL IV @ 0.50%

12" X 10.2' SSPRC
CL IV @ 0.50%

12" X 105.0' SSPRC
CL IV @ 0.50%

12" X 10.2' SSPRC
CL IV @ 0.50%

18" X 29.4' SSPRC
CL IV @ 1.0%

12" X 35.3' SSPRC
CL IV @ 0.50%

12" X 10.2' SSPRC
CL III @ 0.50%

REPLACED WITH
REVISED SHEET 61
5-16-2013

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	STORM SEWER - EAST FRONTAGE ROAD	SHEET 61 E

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1030-11-70
Revised Page 61
May 16, 2013

502 STA 5058+07.5, 65.0' LT
4' DIA-J-S MANHOLE

502B STA 5058+07.5, 74.0' LT
2'X2.5'-V INLET

502A STA 5058+17.5, 74.0' LT
2'X2.5'-V INLET

503 STA 5058+50.0
65.0' LT
6' DIA-J-S MANHOLE

WETLAND BOUNDARY

506A STA 5061+16.7, 134.2' LT
2' X2.5' BOX SPILLWAY

506B STA 5061+50.0, 177.0' LT
1-12" APRON ENDWALL

STORM WATER QUALITY POND NE
SEE CONSTRUCTION DETAILS

SLOPE INTERCEPT

504 STA 5060+19.0, 105.0' LT
19X30" APRON ENDWALL

EAST FRONTAGE ROAD

EAST FRONTAGE ROAD R/L

SLOPE INTERCEPT

503B STA 5057+50.0, 42.2' LT
4' DIA-H INLET

503C STA 5057+60.0, 40.6' LT
4' DIA-H INLET

503A STA 5057+65.6, 22.0' LT
4' DIA-H INLET

503I STA 5058+54.9, 42.5' LT
5' DIA-H MANHOLE

503G STA 5058+54.9, 23.2' LT
2'X3'-H INLET

503F STA 5058+65.0, 23.3' LT
4' DIA-H INLET

503H STA 5058+65.0, 42.5' LT
2'X3'-H INLET

503E STA 5058+86.5, 8.5' LT
4' DIA-H INLET

503D STA 5058+86.4, 1.5' LT
2'X3'-H INLET

505A STA 5061+00.0, 73.8' LT
2' X 4' BOX SPILLWAY

505B STA 5061+00.0, 49.1' RT
1-19X30" APRON ENDWALL

REVISED MAY 15, 2013
R.A. SMITH NATIONAL

SHEET 3 OF 3

FINISHED PROFILE

18" X 42.5' SSPRCHE
CL IV @ 0.30%

15" X 307.5' SSPRC
CL IV @ 0.40%

19"X30" X 163.6' SSPRCHE
CL IV @ 0.40%

19"X30" X 123.0' SSPRCHE
CL IV @ 0.59%

15" X 9.0' SSPRC
CL IV @ 0.40%

12" X 10.0' SSPRC
CL IV @ 0.50%

12" X 52.0' SSPRC
CL IV @ 0.44%

12" X 10.1' SSPRC
CL IV @ 0.50%

12" X 94.9' SSPRC
CL IV @ 0.65%

12" X 10.0' SSPRC
CL IV @ 0.50%

18" X 23.0' SSPRC
CL IV @ 1.0%

12" X 7.0' SSPRC
CL IV @ 0.80%

12" X 25.9' SSPRC
CL IV @ 0.80%

15" X 10.0' SSPRC
CL IV @ 0.80%

15" X 19.3' SSPRC
CL IV @ 0.50%

12" X 19.5' SSPRC
CL IV @ 0.50%

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	STORM SEWER - EAST FRONTAGE ROAD	REVISED SHEET 61	E

ORIGINAL PLANS PREPARED BY

R.A. Smith National

Beyond Surveying and Engineering

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www.rasmithnational.com

WISCONSIN
BRIAN PLUEMER
E-35072
BROOKFIELD WI
PROFESSIONAL ENGINEER

9/15/2010 (Date)

(Signature)

THIS STAMP APPLIES TO EXISTING SIGNING PLANS 1 TO 6 OF 6

2

2

LEGEND

- EXISTING SIGN ON WOOD POST
- (1RXX) SIGN NUMBER REMOVE
- (1MXX) SIGN NUMBER MOVE
- * SIGNS TO REMAIN UNTIL STAGE 1B

N

NICHOLAS RD.

3 MILE RD.

SIGN

SIGN J

INL

W

2027 2028 2030 2032

WEST FRONTAGE ROAD

IH 94 SB

1018 1020 1022 1024 1026 1028 1030 1032

MATCHLINE STA 1033+00

IH 94 NB

RAMP SE

EXIT 329

1M01

NO TURNS 1R04

WRONG WAY 1R02 1R03

1R05

DO NOT ENTER 1R06 1R07 1R08

3030 3032

EAST FRONTAGE ROAD

SIGN SIGN

VENT

HSE

WELL

SHED

SHEET 1 OF 6

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	EXISTING SIGNING	SCALE, FEET 0 50 100	SHEET 62	E

2

2

LEGEND

EXISTING SIGN ON WOOD POST

2RXX SIGN NUMBER REMOVE

2MXX SIGN NUMBER MOVE

* SIGNS TO REMAIN UNTIL STAGE 1B

N

2042 2040 2038 2036 2034

S 27th ST.

WEST FRONTAGE ROAD

1038SW 1040SW 1042SW 1044SW 1046SW 1048

RAMP SW

I 94/USH 41

IH 94 SB

1034 1036 1038 1040 1042 1044 1046

MATCHLINE STA 1033+00

MATCHLINE STA 1048+00

I 94/USH 41

IH 94 NB

1042SE 1044SE 1046SE

EAST FRONTAGE ROAD / RAMP SE

NE FRONTAGE RD.

3034 3036 3038 3040 3042

2R01 2R02 2R03 2R04 2R05 2R06 2R07 2R08 2R09 2R10 2R11

NO TURNS

STOP

YIELD

NO PASSING ZONE

DO NOT ENTER

JCT COUNTY K

SHED HSE WELL SEPTIC WALLS POST SIGN

14 12

SHEET 2 OF 6

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	EXISTING SIGNING	SCALE, FEET 0 50 100	SHEET 63	E

FILE NAME : t:\1052705\cadd\sheets\SIGNING\EXIST\EFR_70\023202_es.DGN PLOT DATE : 11/29/2011 PLOT BY : trg PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

2

2

LEGEND

EXISTING SIGN ON WOOD POST

3RXX SIGN NUMBER REMOVE

3MXX SIGN NUMBER MOVE

ESTR EXISTING SIGN TO REMAIN

* SIGNS TO REMAIN UNTIL STAGE 1B

N

CTH K

RAMP SW

S 27th ST.

WEST FRONTAGE ROAD

RAMP NW

IH 94 SB

IH 94 NB

I 94/USH 41

EAST FRONTAGE ROAD

NORTHWESTERN RD

EAST FRONTAGE ROAD / RAMP SE

EAST FRONTAGE RD.

EAST FRONTAGE ROAD / RAMP NE

MATCHLINE STA 1048+00

MATCHLINE STA 1061+00

MATCHLINE STA 47+50

1050SW 1052SW 1054SW 1056NW 1058NW 1060NW

1050SE 1052SE 1054SE 1056NE 1058NE 1060NE

3R01 STOP AHEAD

3R02 Racine / Franksville

3R03 COUNTY K

3R04 COUNTY K

3R05 3R06 STOP ALL WAY

3R07

3R08 EAST FRONTAGE ROAD

3R09 EAST COUNTY K SPEED LIMIT 35 — J4-1 R2-1 ESTR

FOOD ESTR

STOP ALL WAY ESTR

NO PARKING ANY TIME ESTR

WEST NORTH 94 41 ESTR

SHEET 3 OF 6

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	EXISTING SIGNING	SCALE, FEET 0 50 100	SHEET 64	E

FILE NAME : t:\1052705\cadd\sheets\SIGNING\EXIST\EFR_70\023203_es.DGN PLOT DATE : 11/29/2011 PLOT BY : trg PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

2

LEGEND

EXISTING SIGN ON WOOD POST

4RXX SIGN NUMBER REMOVE

4MXX SIGN NUMBER MOVE

* SIGNS TO REMAIN UNTIL STAGE 1B

N

WEST FRONTAGE ROAD S 27th ST.

RAMP NW

I 94/USH 41 IH 94 SB

I 94/USH 41 IH 94 NB

RAMP NE

NE FRONTAGE RD.

EAST FRONTAGE ROAD

MATCHLINE STA 1061+00

MATCHLINE STA 1076+00

1062NW 1064NW 1066NW 1068NW 1070NW 1072NW 1074NW

1062 1064 1066 1068 1070 1072 1074

1062NE 1064NE 1066NE 1068NE 1070NE 1072NE 1074NE

4068 4070 4072 4074 4076 5072 5074

4R01 4R02 4R03 4R04 4R05 4R06 4R07 4R08 4R09 4R10 4R11 4R12

SHEET 4 OF 6

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	EXISTING SIGNING	SCALE, FEET 0 50 100	SHEET 65	E

FILE NAME : t:\1052705\cadd\sheets\SIGNING\EXIST\EFR_70\023204_es.DGN PLOT DATE : 11/29/2011 PLOT BY : trg PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

2

2

LEGEND

EXISTING SIGN ON WOOD POST

(5RXX) SIGN NUMBER REMOVE

(5MXX) SIGN NUMBER MOVE

ESTR EXISTING SIGN TO REMAIN

* SIGNS TO REMAIN UNTIL STAGE 1B

N

WEST FRONTAGE ROAD

S. 27th ST.

MATCHLINE STA 1076+00

IH 94 SB

I 94/USH 41

IH 94 NB

I 94/USH 41

EAST FRONTAGE ROAD

E. FRONTAGE RD.

4-MILE ROAD

* STOP AHEAD (5R01)

* NO PASSING ZONE (5R02)

SIGN

INL

SHEET 5 OF 6

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	EXISTING SIGNING	SCALE, FEET 0 50 100	SHEET 66	E

FILE NAME : t:\1052705\cadd\sheets\SIGNING\EXIST\EFR_70\023205_es.DGN PLOT DATE : 11/29/2011 PLOT BY : trg PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

2

LEGEND

EXISTING SIGN ON WOOD POST
6RXX SIGN NUMBER REMOVE
6MXX SIGN NUMBER MOVE
ESTR EXISTING SIGN ESTR

N

EAST FRONTAGE ROAD

ADAMS ROAD

CTH K

MATCHLINE STA 47+50

RIGHT LANE MUST TURN RIGHT
6R01

NO ENGINE BRAKING EXCEPT IN EMERGENCY
TO BE REMOVED BY OWNER
6R02

NO PARKING ANY TIME
6R04

NO PARKING ANY TIME
6R05

STOP AHEAD
6R06

SPEED LIMIT 35
6R07

WEST NORTH
94 41
6R08

ADAMS ST
NORTHWESTERN RD
ESTR

STOP
ESTR

SPEED LIMIT 55
6R03

NO PARKING ANY TIME
ESTR

Hwy-38 5
Racine 10
ESTR

6R11

SPEED LIMIT 35
ESTR

JCT
94
41
ESTR

REDUCED SPEED AHEAD
35 M.P.H.
6R09
6R10

SPONSOR ESKIMO SNOWMOBILE CLUB
ESTR

SHEET 6 OF 6

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	EXISTING SIGNING	SCALE, FEET 0 50 100	SHEET 67	E

FILE NAME : t:\1052705\cadd\sheets\signing\exist\EFR_70\023206_es.DGN PLOT DATE : 11/29/2011 PLOT BY : trg PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

2

ORIGINAL PLANS PREPARED BY

R.A. Smith National

Beyond Surveying and Engineering

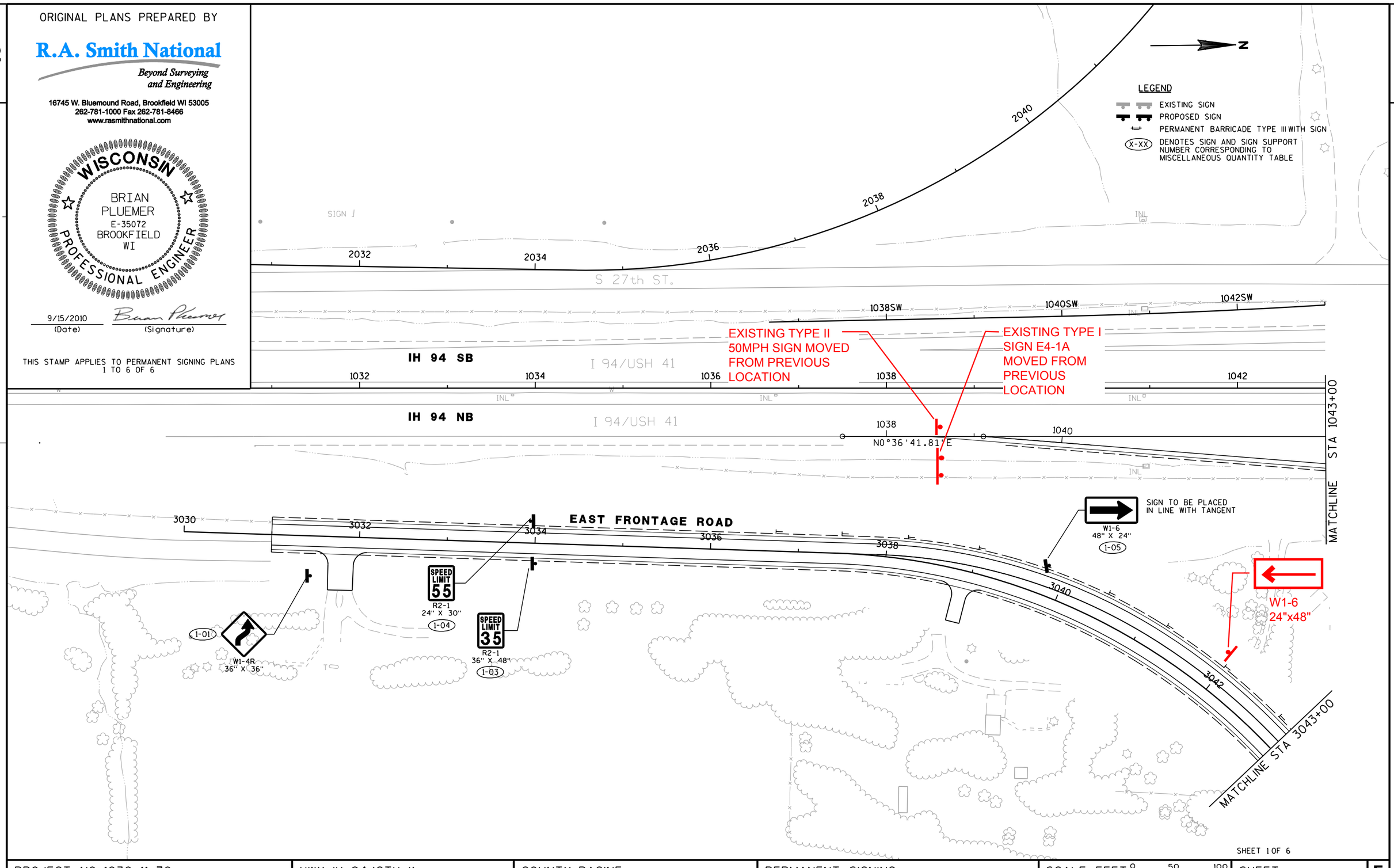
16745 W. Bluemound Road, Brookfield WI 53005
262-781-1000 Fax 262-781-8466
www.rasmithnational.com

WISCONSIN
BRIAN PLUEMER
E-35072
BROOKFIELD WI
PROFESSIONAL ENGINEER

9/15/2010 (Date)

Brian Pluemer (Signature)

THIS STAMP APPLIES TO PERMANENT SIGNING PLANS 1 TO 6 OF 6



SHEET 1 OF 6

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PERMANENT SIGNING	SCALE, FEET 0 50 100	SHEET 68	E

MATCHLINE STA 30+33+00

STOP R1-1 30" X 30" (2-02)

MICHEL COURT

DEAD END W14-1 30" X 30" (2-03)

DO NOT ENTER R5-1 30" X 30" (2-07)

W6-1 36" X 36" (2-01)

W1-7 48" X 24" (2-04)

R4-7 36" X 48" (2-06)

W5-54D 18" X 18" (2-05) SEE CONSTRUCTION DETAIL

W1-4L 36" X 36" (2-09)

EAST FRONTAGE ROAD

W6-3 36" X 36" (2-08)

WRONG WAY R5-1A 36" X 24" (2-11)

W6-2 36" X 36" (2-12)

SPEED LIMIT 35 R2-1 24" X 30" (2-15)

WRONG WAY R5-1A 36" X 24" (2-16)

J1-1 JCT M2-1 21" X 15"

COUNTY K M1-5A 24" X 24" (2-10)

W3-1 36" X 36" (2-13)

R4-7 36" X 48" (2-18)

W1-6 48" X 24" (2-14)

R3-8 36" X 30" (2-20)

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

W5-56 18" X 18" (2-41) (2-42) (2-43) 4' MOUNTING HEIGHT

R3-8W 54" X 30" (2-31)

J32-2 ALTERNATE WEST 94 / ALTERNATE EAST 94 (MB4-1 24" X 12", MB3-4 24" X 12", M1-1 24" X 24", MB6-1 21" X 21", MB3-2 24" X 12") (2-29)

J13-1 EAST FRONTAGE ROAD M1-95A 24" X 30" M6-4 21" X 21" (2-28)

RAMP CLOSED USE ALT ROUTE R11-54F 48" X 30" (2-17)

W12-1D 24" X 24" (2-26) 2' MOUNTING HEIGHT

STOP R1-1 36" X 36" (2-27)

CTH K

MATCHLINE STA 47+00

J2-2 WEST 94 NORTH 41 (MB3-4 24" X 12", M3-1 24" X 12", M1-1 24" X 24", M1-4 24" X 24", MB5-1R 21" X 21", M5-1R 21" X 21") (2-30)

W3-1 36" X 36" (2-32)

J3-3 EAST COUNTY K WEST COUNTY K TO 94 (M3-4 24" X 12", MB4-5 24" X 12", M3-2 24" X 12", M1-5A 24" X 24", M1-1 24" X 24", M6-1 21" X 21", MB6-1 21" X 21") (2-36)

DO NOT ENTER R5-1 30" X 30" (2-33)

STOP TRAFFIC ON K DOES NOT STOP R1-1 36" X 36" R1-52 36" X 15" (2-34) (2-35)

5055+00

5054

STOP R1-1 36" X 36" (2-38)

W12-1D 24" X 24" (2-37) 2' MOUNTING HEIGHT

SPEED LIMIT 35 R2-1 24" X 30" (2-44)

MATCHLINE STA 5055+00

J13-1 EAST FRONTAGE ROAD M1-95A 24" X 30" M6-4 21" X 21" (2-39)

J3-3 M3-4 24" X 12" TO 94 WEST COUNTY K EAST COUNTY K (MB4-5 24" X 12", M3-2 24" X 12", M1-1 24" X 24", M1-5A 24" X 24", MB6-1 21" X 21", M6-1 21" X 21") M 6-1 21" X 21" (2-21)

STOP R1-1 36" X 36" TRAFFIC ON K DOES NOT STOP R1-52 36" X 15" (2-22) (2-23)

DO NOT ENTER R5-1 30" X 30" (2-24)

EAST COUNTY K M3-2 24" X 12" M1-5A 24" X 24" J4-1 24" X 36" (2-25)

MATCHLINE STA 56+00

EAST FRONTAGE ROAD SOUTH NORTH D1-60 96" X 24" (2-40)

N

LEGEND

- EXISTING SIGN
- PROPOSED SIGN
- PERMANENT BARRICADE TYPE III WITH SIGN
- (X-XX) DENOTES SIGN AND SIGN SUPPORT NUMBER CORRESPONDING TO MISCELLANEOUS QUANTITY TABLE

NOTE: DELINEATORS AND FLEXIBLE TUBULAR MARKERS SHOWN ON PAVEMENT MARKING PLAN

REPLACED WITH REVISED SHEET 69 2-1-2013

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PERMANENT SIGNING	SCALE, FEET 0 50 100	SHEET 69	E

FILE NAME : t:\1052705\cadd\sheets\signing\proposed\EFR_70\023202_ps.DGN PLOT DATE : 11/29/2011 PLOT BY : trg PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

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1030-11-70
Revised Page 69
February 1, 2013

MICHEL COURT

MATCHLINE STA 3043+00

MATCHLINE STA 47+00

MATCHLINE STA 56+00

MATCHLINE STA 5055+00

EAST FRONTAGE ROAD

CTH K

STOP R1-1 30" X 30" (2-02)

DEAD END W14-1 30" X 30" (2-03)

DO NOT ENTER R5-1 30" X 30" (2-07)

W6-1 36" X 36" (2-01)

W1-7 48" X 24" (2-04)

W6-3 36" X 36" (2-08)

R4-7 36" X 48" (2-06)

W5-54D 18" X 18" (2-05) SEE CONSTRUCTION DETAIL

W1-4L 36" X 36" (2-09)

WRONG WAY R5-1A 36" X 24" (2-11)

W6-2 36" X 36" (2-12)

SPEED LIMIT 35 R2-1 24" X 30" (2-15)

WRONG WAY R5-1A 36" X 24" (2-16)

J1-1 JCT M2-1 21" X 15"

COUNTY K M1-5A 24" X 24" (2-10)

W3-1 36" X 36" (2-13)

R4-7 36" X 48" (2-18)

W1-6 48" X 24" (2-14)

R3-8 36" X 30" (2-20)

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

W5-56 18" X 18" (2-41) (2-42) (2-43) 4' MOUNTING HEIGHT

R3-8W 54" X 30" (2-31)

J32-2 ALTERNATE WEST 94 / ALTERNATE EAST 94 (MB4-1 24" X 12", MB3-4 24" X 12", M1-1 24" X 24", MB6-1 21" X 21", MB3-2 24" X 12") (2-29)

J13-1 EAST FRONTAGE ROAD M1-95A 24" X 30" M6-4 21" X 21" (2-28)

RAMP CLOSED USE ALT ROUTE R11-54F 48" X 30" (2-17)

W12-1D 24" X 24" (2-26) 2' MOUNTING HEIGHT

STOP R1-1 36" X 36" (2-27)

STOP R1-1 36" X 36" (2-22) TRAFFIC ON K DOES NOT STOP R1-52 36" X 15" (2-23)

DO NOT ENTER R5-1 30" X 30" (2-24)

J4-1 EAST COUNTY K 24" X 36" (2-25) (M3-2 24" X 12", M1-5A 24" X 24")

J3-3 TO WEST 94 EAST COUNTY K COUNTY K (M3-4 24" X 12", MB4-5 24" X 12", M3-2 24" X 12", M1-1 24" X 24", MB6-1 21" X 21", M6-1 21" X 21") (2-21)

J2-2 WEST 94 NORTH 41 (MB3-4 24" X 12", M3-1 24" X 12", M1-1 24" X 24", M1-4 24" X 24", MB5-1R 21" X 21", M5-1R 21" X 21") (2-30)

W3-1 36" X 36" (2-32)

DO NOT ENTER R5-1 30" X 30" (2-33)

J3-3 EAST WEST TO 94 EAST COUNTY K WEST COUNTY K (M3-4 24" X 12", MB4-5 24" X 12", M3-2 24" X 12", M1-5A 24" X 24", M1-1 24" X 24", M6-1 21" X 21") (2-36)

STOP R1-1 36" X 36" (2-34) TRAFFIC ON K DOES NOT STOP R1-52 36" X 15" (2-35)

STOP R1-1 36" X 36" (2-38)

W12-1D 24" X 24" (2-37) 2' MOUNTING HEIGHT

SPEED LIMIT 35 R2-1 24" X 30" (2-44)

J13-1 EAST FRONTAGE ROAD M1-95A 24" X 30" M6-4 21" X 21" (2-39)

EAST FRONTAGE ROAD SOUTH NORTH D1-60 96" X 24" (2-40)

N

LEGEND

- EXISTING SIGN
- PROPOSED SIGN
- PERMANENT BARRICADE TYPE III WITH SIGN
- (X-XX) DENOTES SIGN AND SIGN SUPPORT NUMBER CORRESPONDING TO MISCELLANEOUS QUANTITY TABLE

NOTE: DELINEATORS AND FLEXIBLE TUBULAR MARKERS SHOWN ON PAVEMENT MARKING PLAN

SHEET 2 OF 6

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PERMANENT SIGNING	SCALE, FEET 0 50 100	REVISED SHEET 69	E

FILE NAME : t:\1052705\cadd\sheets\signing\proposed\EFR_70\023202_ps.DGN PLOT DATE : 1/28/2013 PLOT BY : trg PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

RAMP NE

MATCHLINE STA 1057+00

1058NE

1060NE

1062NE

1064NE

1066NE

MATCHLINE STA 1068+00

PEDESTRIANS BICYCLES NON MOTORIZED TRAFFIC MOTOR BICYCLES PROHIBITED
R5-57
36" X 36"
3-19

J3-2
MB3-4 24" X 12"
M3-1 24" X 12"
M1-1 24" X 24"
M1-4 24" X 24"
MB6-2 21" X 21"
M6-2 21" X 21"
3-21

W1-6
48" X 24"
3-20

J3-2
MB3-4 24" X 12"
M3-1 24" X 12"
M1-1 24" X 24"
M1-4 24" X 24"
MB6-2 21" X 21"
M6-2 21" X 21"
3-22

MH
W
INL
SEPC
FILLER CAPS
SCALE
SS
HW

N

NOTE: DELINEATORS AND FLEXIBLE TUBULAR MARKERS SHOWN ON PAVEMENT MARKING PLAN

LEGEND

- EXISTING SIGN
- PROPOSED SIGN
- PERMANENT BARRICADE TYPE III WITH SIGN
- (X-XX) DENOTES SIGN AND SIGN SUPPORT NUMBER CORRESPONDING TO MISCELLANEOUS QUANTITY TABLE

EAST FRONTAGE ROAD

MATCHLINE STA 5055+00

5056

5058

5060

5062

5064

MATCHLINE STA 5066+00

RIGHT LANE MUST TURN RIGHT
R3-7R
36" X 36"
3-02

DO NOT ENTER
R5-1
30" X 30"
3-03

R4-7
24" X 30"
3-04

DO NOT ENTER
R5-1
30" X 30"
3-06

RIGHT LANE MUST TURN RIGHT
R3-7R
36" X 36"
3-07

W3-1
36" X 36"
3-11

J1-1
JCT
M2-1
21" X 15"
COUNTY K
M1-5A
24" X 24"
3-14

SEE CONSTRUCTION DETAIL

R4-7
36" X 48"
3-16

W5-54D
18" X 18"
3-15

DO NOT ENTER
R5-1
30" X 30"
3-18

R4-7
24" X 30"
3-01

W1-4L
36" X 36"
3-09

LANE CLOSED
R11-2(MOD)
48" X 30"
3-05

R4-7
24" X 30"
3-08

W6-2
36" X 36"
3-12

WRONG WAY
R5-1A
36" X 24"
3-13

W6-3
36" X 36"
3-17

REPLACED WITH REVISED SHEET 70 2-1-2013

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PERMANENT SIGNING	SCALE, FEET 0 50 100	SHEET 70	E

FILE NAME : t:\1052705\cadd\sheets\signing\proposed\EFR_70\023203_ps.DGN PLOT DATE : 11/29/2011 PLOT BY : trg PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

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February 1, 2013

RAMP NE

MATCHLINE STA 1057+00

MATCHLINE STA 1068+00

1058NE

1060NE

1062NE

1064NE

1066NE

1068

PEDESTRIANS BICYCLES NON MOTORIZED TRAFFIC MOTOR BICYCLES PROHIBITED
R5-57
36" X 36"
3-19

J3-2
MB3-4 24" X 12"
M3-1 24" X 12"
M1-1 24" X 24"
M1-4 24" X 24"
MB6-2 21" X 21"
M6-2 21" X 21"
WEST NORTH 94 41
3-21

W1-6
48" X 24"
3-20

J3-2
MB3-4 24" X 12"
M3-1 24" X 12"
M1-1 24" X 24"
M1-4 24" X 24"
MB6-2 21" X 21"
M6-2 21" X 21"
WEST NORTH 94 41
3-22

NOTE: DELINEATORS AND FLEXIBLE TUBULAR MARKERS SHOWN ON PAVEMENT MARKING PLAN

N

LEGEND
- EXISTING SIGN
- PROPOSED SIGN
- PERMANENT BARRICADE TYPE III WITH SIGN
- X-XX DENOTES SIGN AND SIGN SUPPORT NUMBER CORRESPONDING TO MISCELLANEOUS QUANTITY TABLE

FILLER CAPS

SCALE

SEE CONSTRUCTION DETAIL

MATCHLINE STA 5055+00

MATCHLINE STA 5066+00

EAST FRONTAGE ROAD

5056

5058

5060

5062

5064

RIGHT LANE MUST TURN RIGHT
R3-7R
36" X 36"
3-02

DO NOT ENTER
R5-1
30" X 30"
3-03

R4-7
24" X 30"
3-04

DO NOT ENTER
R5-1
30" X 30"
3-06

RIGHT LANE MUST TURN RIGHT
R3-7R
36" X 36"
3-07

W3-1
36" X 36"
3-11

J1-1
JCT
M2-1
21" X 15"
COUNTY K
M1-5A
24" X 24"
3-14

R4-7
36" X 48"
3-16

W5-54D
18" X 18"
3-15

DO NOT ENTER
R5-1
30" X 30"
3-18

R4-7
24" X 30"
3-01

W1-4L
36" X 36"
3-09

W4-2R
36" X 36"
3-05

R4-7
24" X 30"
3-08

W6-2
36" X 36"
3-12

WRONG WAY
R5-1A
36" X 24"
3-13

W6-3
36" X 36"
3-17

REPLACED WITH
REVISED SHEET 70
5-16-2013

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PERMANENT SIGNING	SCALE, FEET 0 50 100	~~REVISED SHEET 70~~	E

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1030-11-70
Revised Page 70
May 16, 2013

RAMP NE

MATCHLINE STA 1057+00

MATCHLINE STA 1068+00

1058NE 1060NE 1062NE 1064NE 1066NE

PEDESTRIANS BICYCLES NON MOTORIZED TRAFFIC MOTOR BICYCLES PROHIBITED
R5-57
36" X 36"
3-19

MB3-4 24" X 12"
M1-1 24" X 24"
MB6-2 21" X 21"
J3-2
WEST NORTH
INTERSTATE 94 41
M3-1 24" X 12"
M1-4 24" X 24"
M6-2 21" X 21"
3-21

W1-6
48" X 24"
3-20

MB3-4 24" X 12"
M1-1 24" X 24"
MB6-2 21" X 21"
J3-2
WEST NORTH
INTERSTATE 94 41
M3-1 24" X 12"
M1-4 24" X 24"
M6-2 21" X 21"
3-22

NOTE: DELINEATORS AND FLEXIBLE TUBULAR MARKERS SHOWN ON PAVEMENT MARKING PLAN

N

LEGEND

- EXISTING SIGN
- PROPOSED SIGN
- PERMANENT BARRICADE TYPE III WITH SIGN
- (X-XX) DENOTES SIGN AND SIGN SUPPORT NUMBER CORRESPONDING TO MISCELLANEOUS QUANTITY TABLE

FILLER CAPS

SCALE

ONE WAY
R6-2R
24"x30"

MATCHLINE STA 5055+00

EAST FRONTAGE ROAD

5056 5058 5060 5062 5064

RIGHT LANE MUST TURN RIGHT
R3-7R
36" X 36"
3-02

DO NOT ENTER
R5-1
30" X 30"
3-03

R4-7
24" X 30"
3-04

DO NOT ENTER
R5-1
30" X 30"
3-06

RIGHT LANE MUST TURN RIGHT
R3-7R
36" X 36"
3-07

LEFT TURN LANE
R3-56L
24" X 30"
3-24

LEFT TURN LANE
R3-55L
24" X 30"
3-25

W3-1
36" X 36"
3-11

J1-1
JCT
M2-1
21" X 15"
COUNTY K
M1-5A
24" X 24"
3-14

SEE CONSTRUCTION DETAIL

R4-7
36" X 48"
3-16

W5-54D
18" X 18"
3-15

MATCHLINE STA 5066+00

DO NOT ENTER
R5-1
30" X 30"
3-18

RIGHT TURN ONLY
R3-53
24"x30"

R4-7
24" X 30"
3-01

W4-2R
36" X 36"
3-05

R4-7
24" X 30"
3-08

W6-2
36" X 36"
3-12

WRONG WAY
R5-1A
36" X 24"
3-13

W6-3
36" X 36"
3-17

DO NOT ENTER
R5-1
30" X 30"
3-23

REVISED MAY 15, 2013
R.A. SMITH NATIONAL

SHEET 3 OF 6

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PERMANENT SIGNING	SCALE, FEET 0 50 100	REVISED SHEET 70	E

FILE NAME : t:\1052705\Cadd\sheets\SIGNING\PROPOSED\EFR_70\023203_ps.dgn PLOT DATE : 5/15/2013 PLOT BY : dgw PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

3-14 JCT M2-1 / COUNTY K M1-5A J1-1

3-13 WRONG WAY R5-1A

3-11 W3-1

3-12 W6-2

3-07 RIGHT LANE MUST TURN RIGHT R3-7R

3-06 DO NOT ENTER R5-1

3-08 3-04 R4-7

3-23 STOP R1-1(2S)

PC: 5058+56.84

BP: 0+00.00

PC: 3+05.03

3-24 3-25 W3-1(2S)

SPEED LIMIT 35 3-27 R2-1(2S) 25MPH

3-26 R5-2(2S)

PT: 5+73.37

3-03 DO NOT ENTER R5-1

3-09 W1-4L

3-02 RIGHT LANE MUST TURN RIGHT R3-7R

3-01 R4-7

PC: 7+46.74

TRUCK ENTRANCE AHEAD

24"x36" MOUNTED BELOW R4-7

PT: 9+84.30

EP: 3+50.00

PC: 10+11.44

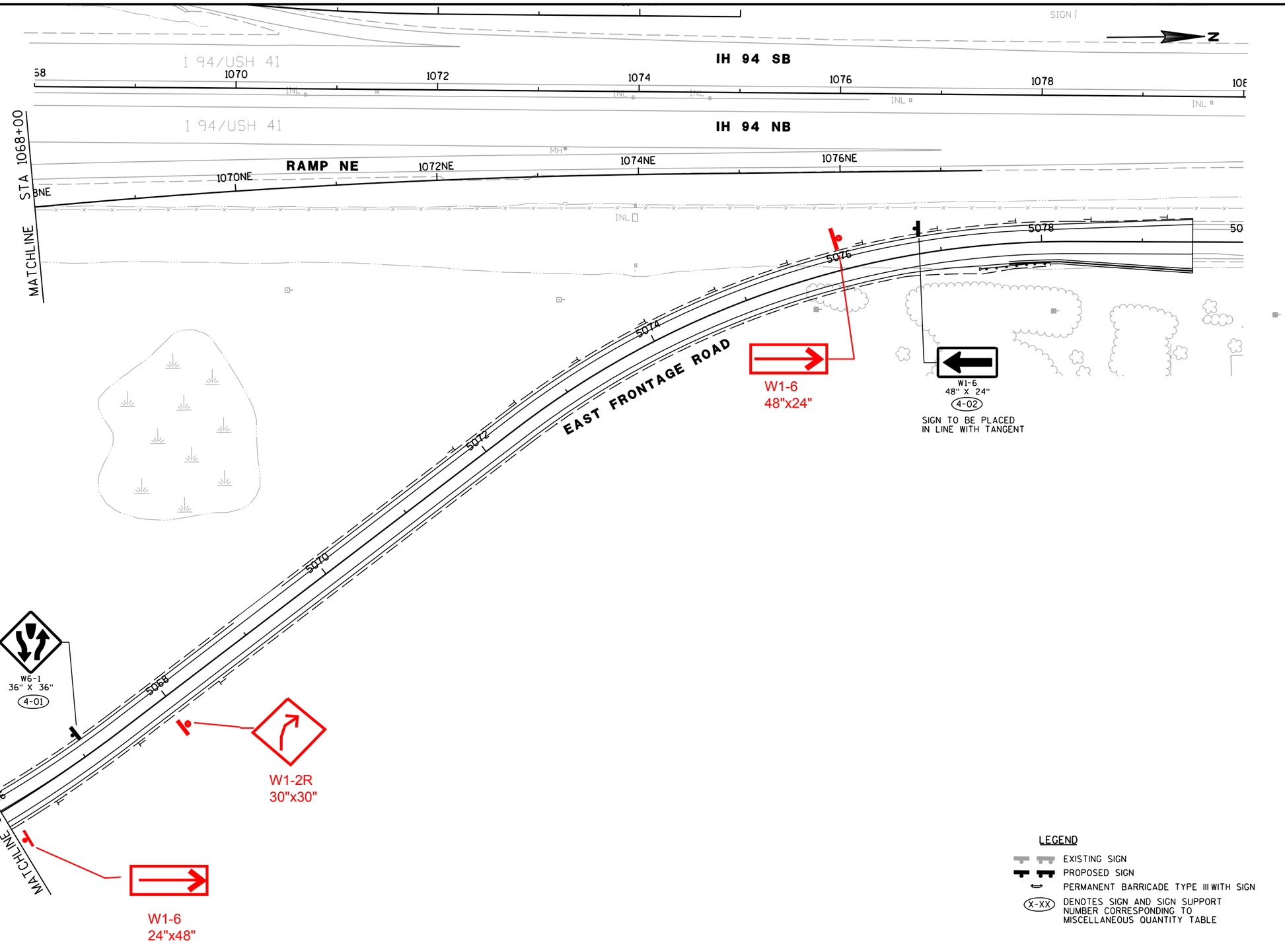
EAST FRONTAGE ROAD

REVISED 5-15-13

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PERMANENT SIGNING	SHEET 70A	E

FILE NAME : J:\projects\d2_10301194\70\023201_ps.dgn PLOT DATE : 13-MAY-2013 10:16 PLOT BY : MSCCXV PLOT NAME : PLOT SCALE : 100:1

2



LEGEND

- EXISTING SIGN
- PROPOSED SIGN
- PERMANENT BARRICADE TYPE III WITH SIGN
- (X-XX) DENOTES SIGN AND SIGN SUPPORT NUMBER CORRESPONDING TO MISCELLANEOUS QUANTITY TABLE

SHEET 4 OF 6

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PERMANENT SIGNING	SCALE, FEET 0 50 100	SHEET 71	E

2

LEGEND

EXISTING SIGN

PROPOSED SIGN

PERMANENT BARRICADE TYPE III WITH SIGN

X-XX DENOTES SIGN AND SIGN SUPPORT NUMBER CORRESPONDING TO MISCELLANEOUS QUANTITY TABLE

ESTR EXISTING SIGN TO REMAIN

MATCHLINE STA 1043+00

MATCHLINE STA 1057+00

MATCHLINE STA 47+00

S 27th ST.

I 94/USH 41

NE FRONTAGE RD

MICHEL COURT

RAMP SE

CTH K

1044SW 1046SW 1048SW 1050SW 1052SW 1054SW

1044 1046 1048 1050 1052 1054 1056

1056NW 1058N 1056NE

EXIT 329
E5-1A
90" X 60"
1M01

JCT COUNTY K
J1-1
M-21
21" X 15"
M1-5A
24" X 24"
5-01

W3-1
36" X 36"
5-02

FRONTAGE RD BUSINESSES WEST EAST
FIXED MESSAGE SIGN
60" X 36"
5-19

Racine Franksville
D1-2
78" X 24"
5-03

WRONG WAY
R5-1A
42" X 30"
5-05
5-06

WRONG WAY
R5-1a
36"x24"
MOUNTED BELOW
R5-1 SIGN
IH 94 NB

W1-6
48" X 24"
5-04

TO BE MOVED BY
DERSE 800-345-5772

FOOD

DO NOT ENTER
R5-1
36" X 36"
5-08

STOP AHEAD
W3-1
36"x36"

WEST EAST
COUNTY K COUNTY K
J2-2
M3-4
24" X 12"
M3-2
24" X 12"
M1-5A
24" X 24"
M1-5A
24" X 24"
M6-1
21" X 21"
M6-1
21" X 21"
5-07

DO NOT ENTER
R5-1
36" X 36"
5-11

STOP
ESTR

ROAD CLOSED
R11-2
48" X 30"
5-13

ONE WAY
R6-2R
24" X 30"
5-14

5-15
R3-1
24" X 24"
ESTR
STOP

5-16
R3-2
24" X 24"
ESTR
STOP

BARRICADE RACK REQ'D PROVIDE 4 PERMANENT BARRICADES

STOP
ESTR

FREEWAY ENTRANCE RAMP ONLY
48" X 36"
5-18

ONE WAY
R6-2L
24" X 30"
5-10

EAST COUNTY K
ESTR

WEST NORTH
INTERSTATE 94 41
ESTR

WEST NORTH
INTERSTATE 94 41
ESTR

DO NOT ENTER
R5-1
36" X 36"
5-09

SPEED LIMIT 35
R2-1
24"X30"
5-17

EAST FRONTAGE ROAD
NORTH SOUTH
D1-60
96" X 24"
5-12

SHEET 5 OF 6

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PERMANENT SIGNING	SCALE, FEET 0 50 100	SHEET 72	E

2

N

ADAMS RD

MATCHLINE STA 56+00

FLASHING SOLAR BEACON ASSEMBLY

R3-8W
54" X 30"
6-01

W2-1
36" X 36"
6-02
6-03

STOP
ESTR

W1-2R
36" X 36"
6-06

ESTR

SPEED LIMIT 35
R2-1
36" X 48"
6-07

NEW TRAFFIC PATTERN AHEAD
W23-2
36" X 36"
6-08
6-09

CTH K

NO PARKING ANY TIME
ESTR

Hwy-38 5
Racine 10
ESTR

SPONSOR EDUBO KNOWSDALE CLUB
ESTR

SPEED LIMIT 55
R2-1
24" X 30"
6-05

SPEED LIMIT 35
W3-5
36" X 36"
6-04

56 58 60 60 62 62 64 66 68 136 700

LEGEND

- EXISTING SIGN
- PROPOSED SIGN
- PERMANENT BARRICADE TYPE III WITH SIGN
- X-XX — DENOTES SIGN AND SIGN SUPPORT NUMBER CORRESPONDING TO MISCELLANEOUS QUANTITY TABLE
- TWO 16" ORANGE FLAGS
- ESTR — EXISTING SIGN TO REMAIN

NOTE: DELINEATORS AND FLEXIBLE TUBULAR MARKERS SHOWN ON PAVEMENT MARKING PLAN

REPLACED WITH
REVISED SHEET 73
5-16-2013

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PERMANENT SIGNING	SCALE, FEET 0 50 100	SHEET 73	E

FILE NAME : t:\1052705\cadd\sheets\signing\proposed\efr_70\023206_ps.dgn PLOT DATE : 11/29/2011 PLOT BY : trg PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

SPEED LIMIT 25
R2-1
24"x3

W5-56(2M)
4' MOUNTING HEIGHT
PER SDD 15 C26-1
6-17 6-18 6-19

W3-1(2S) 6-20

6-14 6-15 6-16
STOP
R1-1(2S)

SPEED LIMIT 35
R2-1(2S) 6-13

2-40
EAST FRONTAGE ROAD
WEST EAST
D1-60

6-01
ONLY ONLY ONLY
R3-8W

6-02 6-03
FLASHING SOLAR BEACON ASSEMBLY
W2-1

SPEED LIMIT 35
R2-1(2S) 6-12
REMOVE

W1-2R 6-11
REMOVE

STOP
R1-1
ESTR

ADAMS RD

6-10
R5-2(2S)
REMOVE

JCT
INTERSTATE 94
41
ESTR

SPEED LIMIT 35
R2-1 6-07

EAST
M3-2

COUNTY K
M1-5A
J4-1
2-25

NO PARKING ANY TIME
R7-1L
ESTR

6-08 6-09
NEW TRAFFIC PATTERN AHEAD
W23-2

I55-56
ESTR

SPEED LIMIT 55
R2-1 6-05

SPEED LIMIT 35
W3-5 6-04

CTH K

55 55 60 60 65 65

REVISED
5-15-13

N

SHEET 2 OF 2

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PERMANENT SIGNING	REVISED SHEET 73	E

FILE NAME : J:\projects\d2_10301194\70\023202_ps.dgn PLOT DATE : 13-MAY-2013 10:16 PLOT BY : MSCCXV PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

FREEWAY LIGHTING AND LOCAL STREET LIGHTING SHALL BE INSTALLED IN COMPLIANCE WITH WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS SECTIONS 652 TO 657 AND 659 EXCEPT:

1. DETAILS OF CONSTRUCTION MATERIALS AND WORKMANSHIP NOT SHOWN ON THESE DRAWINGS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

2. LOCATIONS OF THE PVC CONDUITS ARE IDENTIFIED IN THE PLANS WHERE THEY ARE REQUIRED. HOWEVER, UNDER THE APPROVAL OF THE ENGINEER. ADJUSTMENT ON CONDUIT LOCATIONS MAY BE MADE IF THE FIELD CONDITIONS ARE SUCH THAT THE CONDUIT CANNOT BE INSTALLED AT THE SPECIFIED LOCATIONS. FIELD MARK EACH CONDUIT LOCATION IN RED TO ILLUSTRATE AS BUILT CONDITIONS.

3. THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

4. ALL OPEN AND UNTERMINATED CONDUITS SHALL BE CAPPED OR PLUGGED WITH ENGINEER APPROVED FITTINGS IMMEDIATELY AFTER INSTALLATION.

5. BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR IMMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

6. ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON ALL CONDUITS.

7. PRIOR TO CONDUIT ACCEPTANCE, ALL CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND BE CAPPED WITH THE APPROPRIATE CAST PLASTIC CAP WHICH FITS SNUGGLY ON THE CONDUIT, BUT EASILY REMOVED IN THE FUTURE. DUCT TAPE OR ANY OTHER CAPPING METHOD IS NOT ACCEPTABLE.

8. CONDUIT RUNS SHALL BE THE SAME SIZE PIPE FROM ONE END TO THE OTHER (FROM PULL BOX-TO-PULL BOX, JUNCTION BOX OR BASE-TO-BASE, ETC.) UNLESS OTHERWISE NOTED ON PLANS.

9. PULL ROPE (3/8-INCH NYLON) SHALL BE INSTALLED IN ALL NEW CONDUITS.

10. CONTRACTOR SHALL SUPPLY AS-BUILT DRAWINGS (.PDF FORMAT) FOR ALL THE WORK BEING DONE.

11. CONDUIT LATERALS SHALL BE TRENCHED UNDER PAVEMENT BEFORE PAVEMENT CONSTRUCTION. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH ROADWAY CONSTRUCTION FOR CONDUIT LATERALS INSTALLATION.

12. PROVIDE MINIMUM CABLE SLACK AS MENTIONED BELOW:

PULL BOXES:	10-FT
POLE BASES:	5-FT ONE WAY IN OR OUT
EMBEDDED JUNCTION BOXES:	3-FT
DISTRIBUTION CENTER/LOAD CENTER:	10-FT

STREET LIGHTING PLANS PREPARED BY:
HNTB
HNTB CORPORATION
111 N CANAL STREET, SUITE 1250
CHICAGO, IL 60606

WISCONSIN
MATTHEW C. DURNING
E-39943
OSWEGO, IL
PROFESSIONAL ENGINEER

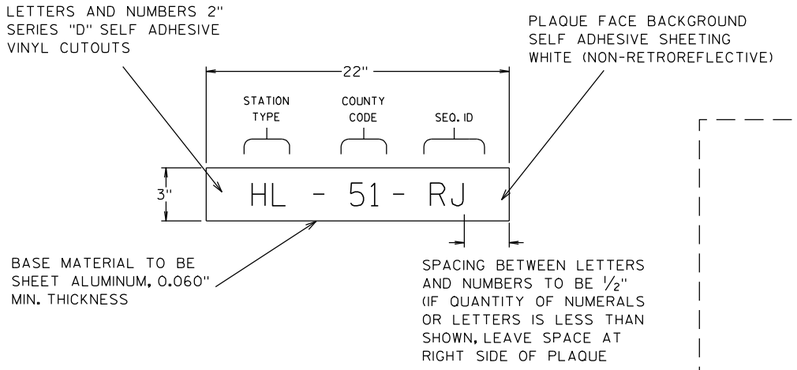
SIGNATURE: Matthew C Durning

DATE: 8/29/2012 SHEETS: 1 TO 8

SHEET 1 OF 8

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	LIGHTING PLAN - DETAIL	SHEET 74	E

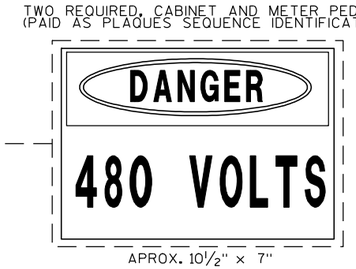
2

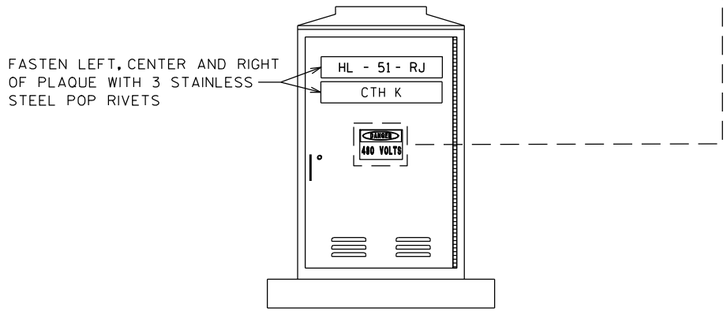


DISTRIBUTION CENTER
IDENTIFICATION PLAQUE



MNEMONIC
(SEE MISC. QTYS.)
(NO. OF CHARACTERS VARIES
THIRD PLAQUE MAY BE
NECESSARY)



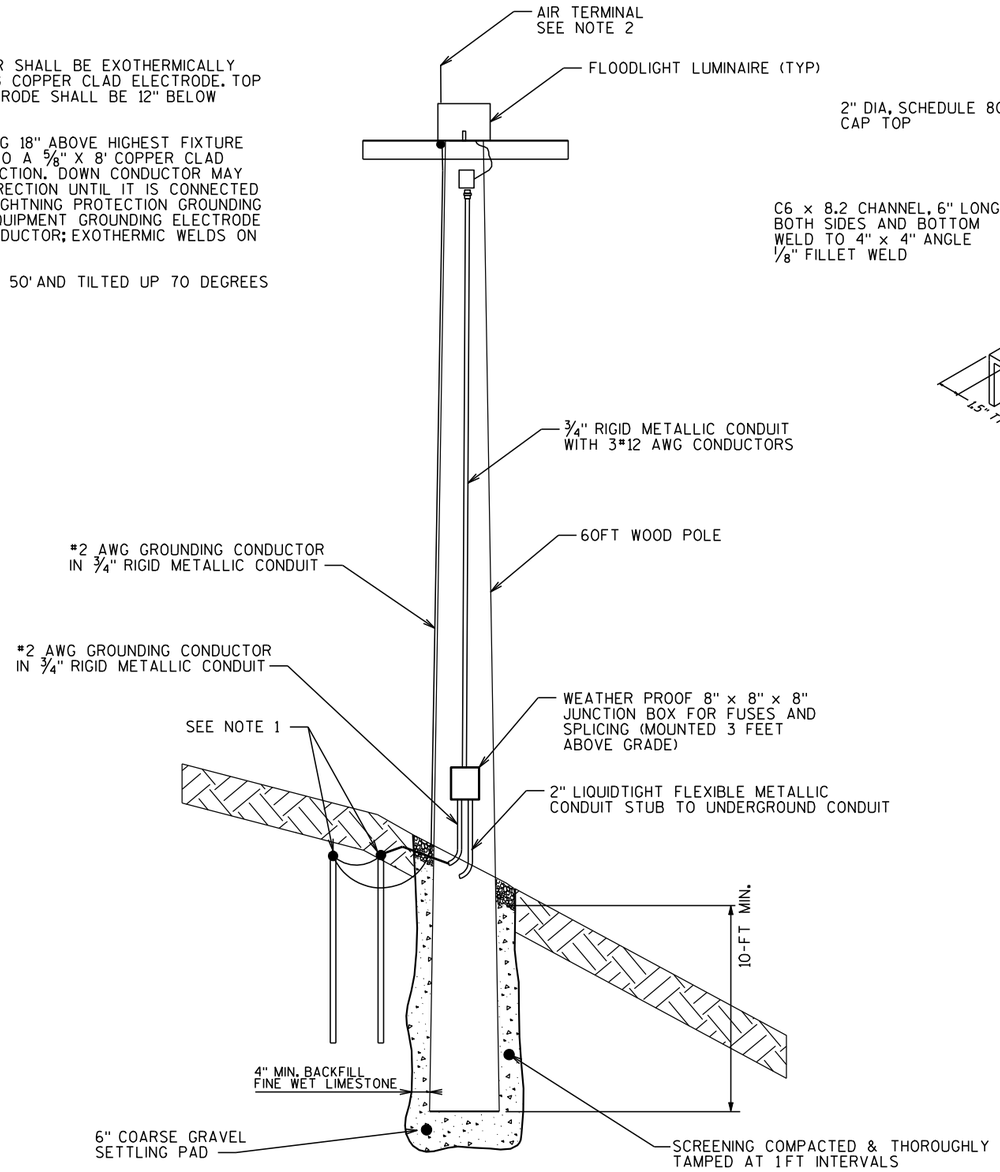


DISTRIBUTION CENTER IDENTIFICATION PLAQUE
REQUIREMENTS AND PLACEMENTS
(TYPICAL ALL CONTROL CABINETS)

2

NOTES:

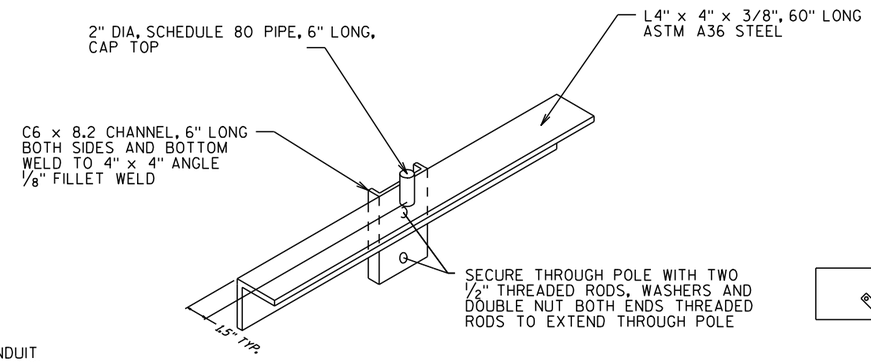
1. EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY BONDED TO 5/8" BY 8-FOOT LONG COPPER CLAD ELECTRODE. TOP OF EQUIPMENT GROUNDING ELECTRODE SHALL BE 12" BELOW FINISHED MEDIAN GRADE.
2. PROVIDE AIR TERMINAL PROTRUDING 18" ABOVE HIGHEST FIXTURE WITH #2 AWG DOWN CONDUCTOR TO A 5/8" X 8' COPPER CLAD ELECTRODE FOR LIGHTNING PROTECTION. DOWN CONDUCTOR MAY TRAVEL ONLY IN A DOWNWARD DIRECTION UNTIL IT IS CONNECTED TO THE GROUNDING ELECTRODE. LIGHTNING PROTECTION GROUNDING ELECTRODE TO BE BONDED TO EQUIPMENT GROUNDING ELECTRODE WITH BARE, SOLID #2 COPPER CONDUCTOR; EXOTHERMIC WELDS ON BOTH ENDS.
3. FLOODLIGHTS TO BE MOUNTED AT 50' AND TILTED UP 70 DEGREES FROM GROUND.



TEMPORARY 60' WOOD POLE LIGHTING UNIT

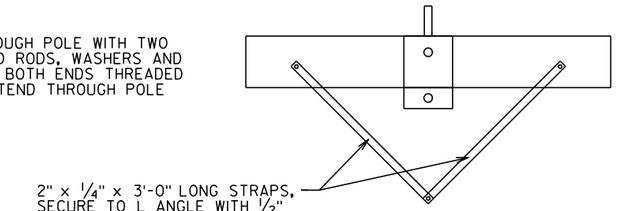
WITH SINGLE 400W FLOOD LIGHT

NOT TO SCALE
SEE ELECTRICAL DRAWINGS
FOR ADDITIONAL INFORMATION



ISOMETRIC VIEW

STRAPS NOT SHOWN FOR CLARITY



FRONT VIEW

FLOODLIGHT BRACKET ARM

REMOVAL LEGEND

EXISTING SINGLE ARM WOOD LIGHT POLE TO BE REMOVED

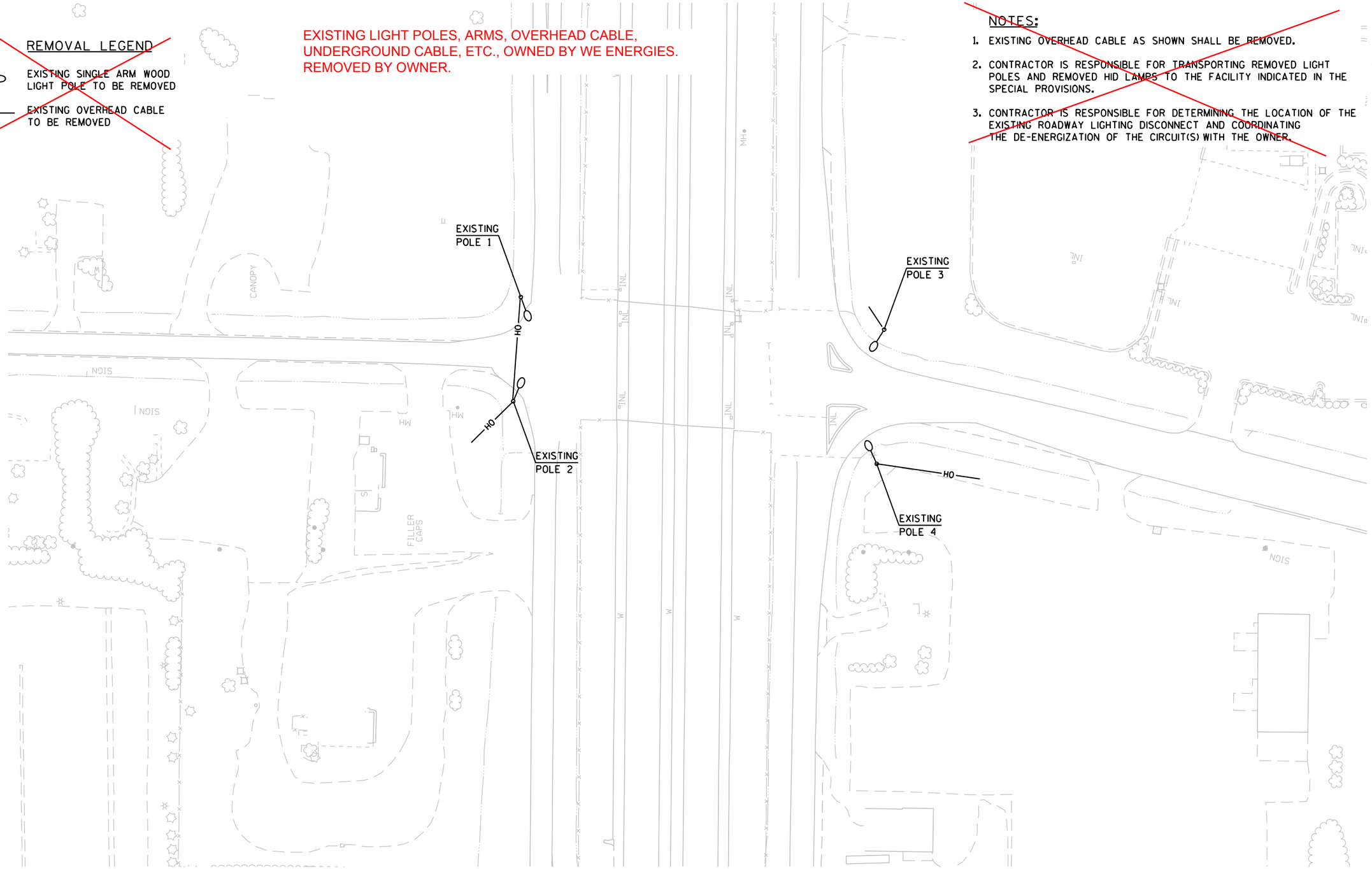
—OH— EXISTING OVERHEAD CABLE TO BE REMOVED

EXISTING LIGHT POLES, ARMS, OVERHEAD CABLE, UNDERGROUND CABLE, ETC., OWNED BY WE ENERGIES. REMOVED BY OWNER.

NOTES:

1. EXISTING OVERHEAD CABLE AS SHOWN SHALL BE REMOVED.
2. CONTRACTOR IS RESPONSIBLE FOR TRANSPORTING REMOVED LIGHT POLES AND REMOVED HID LAMPS TO THE FACILITY INDICATED IN THE SPECIAL PROVISIONS.
3. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF THE EXISTING ROADWAY LIGHTING DISCONNECT AND COORDINATING THE DE-ENERGIZATION OF THE CIRCUIT(S) WITH THE OWNER.

N

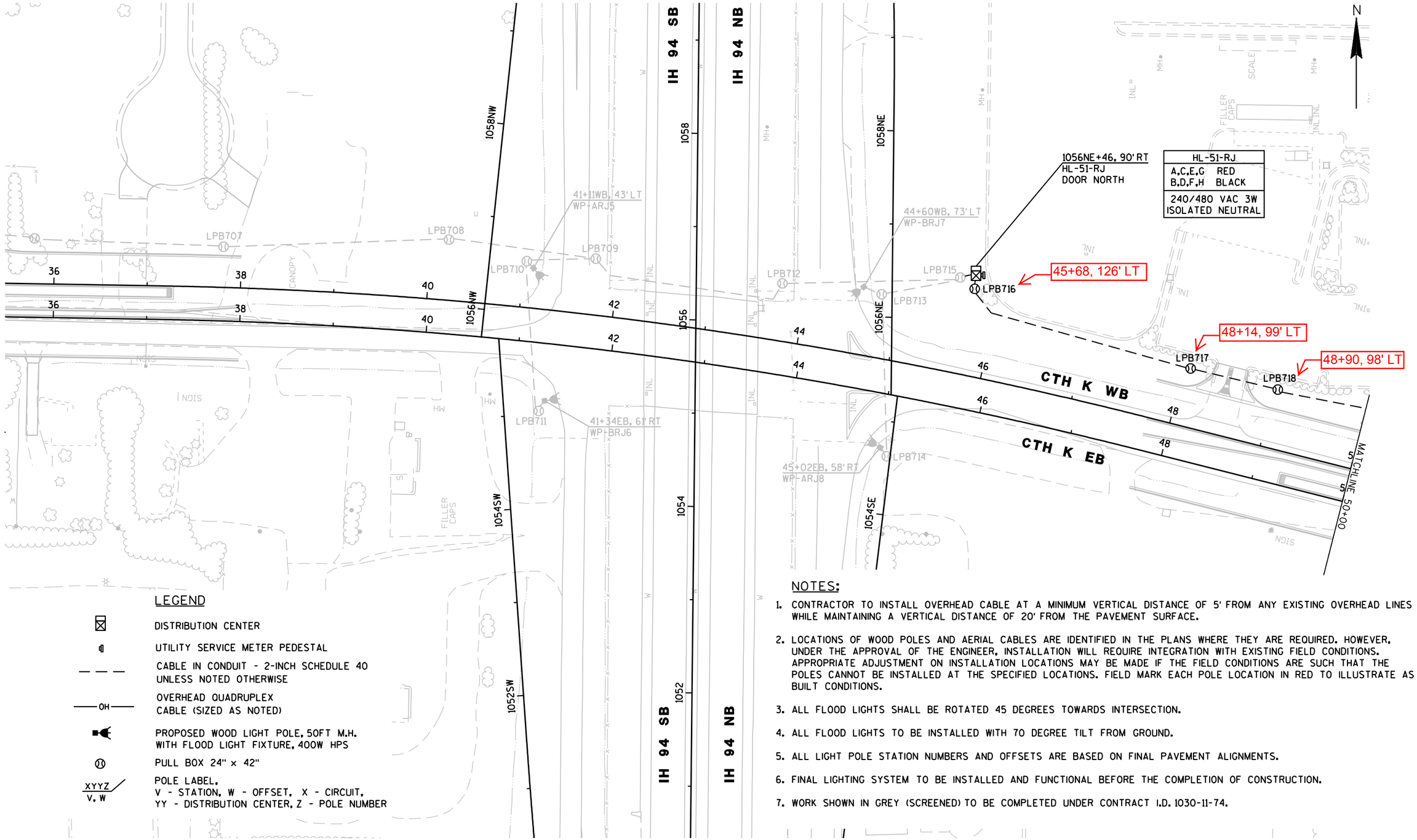


PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	LIGHTING PLAN - REMOVAL	SHEET 77	E

FILE NAME : \\CHIW00\projects\58011\CADD\cds\1030-11-70\023601_lp.dgn PLOT DATE : 31-AUG-2011 20:49 PLOT BY : kanyikwa PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2



LEGEND

- DISTRIBUTION CENTER
- UTILITY SERVICE METER PEDESTAL
- CABLE IN CONDUIT - 2-INCH SCHEDULE 40 UNLESS NOTED OTHERWISE
- OH — OVERHEAD QUADRUPLEX CABLE (SIZED AS NOTED)
- PROPOSED WOOD LIGHT POLE, 50FT M.H. WITH FLOOD LIGHT FIXTURE, 400W HPS
- PULL BOX 24" x 42"
- XYYZ / V, W — POLE LABEL. V - STATION, W - OFFSET, X - CIRCUIT, YY - DISTRIBUTION CENTER, Z - POLE NUMBER

NOTES:

1. CONTRACTOR TO INSTALL OVERHEAD CABLE AT A MINIMUM VERTICAL DISTANCE OF 5' FROM ANY EXISTING OVERHEAD LINES WHILE MAINTAINING A VERTICAL DISTANCE OF 20' FROM THE PAVEMENT SURFACE.
2. LOCATIONS OF WOOD POLES AND AERIAL CABLES ARE IDENTIFIED IN THE PLANS WHERE THEY ARE REQUIRED. HOWEVER, UNDER THE APPROVAL OF THE ENGINEER, INSTALLATION WILL REQUIRE INTEGRATION WITH EXISTING FIELD CONDITIONS. APPROPRIATE ADJUSTMENT ON INSTALLATION LOCATIONS MAY BE MADE IF THE FIELD CONDITIONS ARE SUCH THAT THE POLES CANNOT BE INSTALLED AT THE SPECIFIED LOCATIONS. FIELD MARK EACH POLE LOCATION IN RED TO ILLUSTRATE AS BUILT CONDITIONS.
3. ALL FLOOD LIGHTS SHALL BE ROTATED 45 DEGREES TOWARDS INTERSECTION.
4. ALL FLOOD LIGHTS TO BE INSTALLED WITH 70 DEGREE TILT FROM GROUND.
5. ALL LIGHT POLE STATION NUMBERS AND OFFSETS ARE BASED ON FINAL PAVEMENT ALIGNMENTS.
6. FINAL LIGHTING SYSTEM TO BE INSTALLED AND FUNCTIONAL BEFORE THE COMPLETION OF CONSTRUCTION.
7. WORK SHOWN IN GREY (SCREENED) TO BE COMPLETED UNDER CONTRACT I.D. 1030-11-74.

2

N

IH 94 SB

IH 94 NB

1058NW

1058

1058NE

1056NW

1056

1054SW

1054

1054SE

1052SW

1052

1052SE

2" CONDUIT, 3*6 A,B,N, 1*8 GND

2" CONDUIT, 3*6 A,B,N, 1*8 GND

2" CONDUIT, 2*6 A,N, 1*8 GND

41+11WB, 43' LT
WP-ARJ5

LPB707

LPB708

LPB709

LPB710

2" CONDUIT, SPECIAL, 3*6 A,B,N, 1*8 GND

LPB712

2" CONDUIT, 3*6 A,B,N, 1*8 GND

44+60WB, 73' LT
WP-BRJ7

LPB715

(2) 3" CONDUIT, EMPTY

1056NE+46, 90' RT
HL-51-RJ
DOOR NORTH

HL-51-RJ
A,C,E,G RED B,D,F,H BLACK
240/480 VAC 3W ISOLATED NEUTRAL

(2) 3" CONDUIT, 3*8 C,D,N, 1*8 GND

LPB716

48+14, 99' LT

45+68, 126' LT

PB713

2" CONDUIT, 3*6 A,B,N, 1*8 GND

2" CONDUIT, 3*8 C,D,N, 1*8 GND

2" CONDUIT, 3*8 C,D,N, 1*8 GND

LPB717

LPB718

48+90, 98' LT

CTH K WB

CTH K EB

2" CONDUIT, 2*6 B,N, 1*8 GND

LPB711

41+34EB, 61' RT
WP-BRJ6

2" CONDUIT, 2*6 B,N, 1*8 GND

2" CONDUIT, 2*6 B,N, 1*8 GND

45+02EB, 58' RT
WP-ARJ8

LPB714

2" CONDUIT, 2*6 A,N, 1*8 GND

2" CONDUIT, 2*6 A,N, 1*8 GND

MATCHLINE 50+00

LEGEND

- DISTRIBUTION CENTER
- UTILITY SERVICE METER PEDESTAL
- CABLE IN CONDUIT - 2-INCH SCHEDULE 40 UNLESS NOTED OTHERWISE
- PROPOSED WOOD LIGHT POLE, 50FT M.H. WITH FLOOD LIGHT FIXTURE, 400W HPS
- PULL BOX 24" x 42"
- XYYZ / V, W — POLE LABEL, V - STATION, W - OFFSET, X - CIRCUIT, YY - DISTRIBUTION CENTER, Z - POLE NUMBER

2

N

50+90, 100' LT
~~50+84WB, 65'LT~~
WP-CRJ3

50+92, 107' LT

52+42, 93' LT
~~52+62WB, 80'LT~~
WP-DRJ4

00LPB719

OH

MATCHLINE 50+00

51+29, 65' RT
~~51+44EB, 83'RT~~
WP-DRJ6

52+80, 65' RT
~~53+02EB, 66'RT~~
WP-CRJ5

5056
5054
5052
3056
3054

CTH K WB

CTH K EB

SHEET 7 OF 8

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	LIGHTING PLAN - FINAL	SHEET 80	E

FILE NAME : \\CHIW00\projects\58011\CADD\cds\1030-11-70\023803_lp.dgn PLOT DATE : 31-AUG-2011 20:49 PLOT BY : kanyikwa PLOT NAME : PLOT SCALE : 100:1

2

N

MATCHLINE 50+00

5056

5054

5052

3056

3054

50+90, 100' LT
~~50+84WB, 65'LT~~
WP-CRJ3

2" CONDUIT,
2#8 C,N,
1#8 GND

#6 QUADRUPLEX
C/D/N AERIAL

52+42, 93' LT
~~52+62WB, 80'LT~~
WP-DRJ4

LPB719

OH

50+92, 107' LT

51+29, 65' RT
~~51+44EB, 83'RT~~
WP-DRJ6

#6 QUADRUPLEX
C/D/N AERIAL

#6 QUADRUPLEX
C/D/N AERIAL

52+80, 65' RT
~~53+02EB, 66'RT~~
WP-CRJ5

CTH K WB

CTH K EB

12

SHEET 8 OF 8

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	LIGHTING PLAN - SCHEMATIC	SHEET 81	E

REMOVE PAVEMENT MARKINGS
CHANNELIZING LINE (WHITE)
(STA 45+21 TO STA 46+00)

REMOVE PAVEMENT MARKINGS
CHANNELIZING DOT LINE (DOT PATTERN WHITE)
(STA 46+00 TO STA 48+00)

REMOVE PAVEMENT MARKINGS
EDGE LINE (WHITE)
(STA 45+21 TO STA 50+21)

REMOVING PAVEMENT MARKINGS
LANE LINE (DASHED WHITE)
(STA 47+72 TO STA 51+36)

REMOVING PAVEMENT MARKINGS
CENTERLINE (DOUBLE YELLOW)
(STA 45+21 TO STA 61+72)

REMOVING PAVEMENT MARKINGS
EDGE LINE (WHITE)
(STA 53+04 TO STA 58+79)

REMOVING PAVEMENT MARKINGS
EDGE LINE (WHITE)
(STA 45+54 TO STA 61+72)

REMOVE PAVEMENT MARKINGS
EDGE LINE (WHITE)
(STA 59+41 TO STA 61+72)

REMOVING PAVEMENT MARKINGS
LANE LINE (DASHED WHITE)
(STA 57+15 TO STA 60+20)

EAST FRONTAGE ROAD

CTH K

ADAMS ROAD

LEGEND

X X X X X = REMOVE PAVEMENT MARKING

NOTE:
SEE PAVEMENT MARKING SHEET 1 OF 6,
5 OF 6, AND 6 OF 6 FOR REMOVING
PAVEMENT MARKING ON RAMP SE

N

ORIGINAL PLANS PREPARED BY

R.A. Smith National
Beyond Surveying and Engineering
16745 W. Bluemound Road, Brookfield WI 53005
262-781-1000 Fax 262-781-8466
www.rasmithnational.com

WISCONSIN
BRIAN
PLUEMER
E-35072
BROOKFIELD
WI
PROFESSIONAL ENGINEER

9/15/2010 (Date)
(Signature)

THIS STAMP APPLIES TO REMOVING PAVEMENT MARKING
1 TO 1 OF 1

SHEET 1 OF 1

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	REMOVING PAVEMENT MARKING	SCALE, FEET 0 50 100	SHEET 82	E

ORIGINAL PLANS PREPARED BY

R.A. Smith National

Beyond Surveying and Engineering

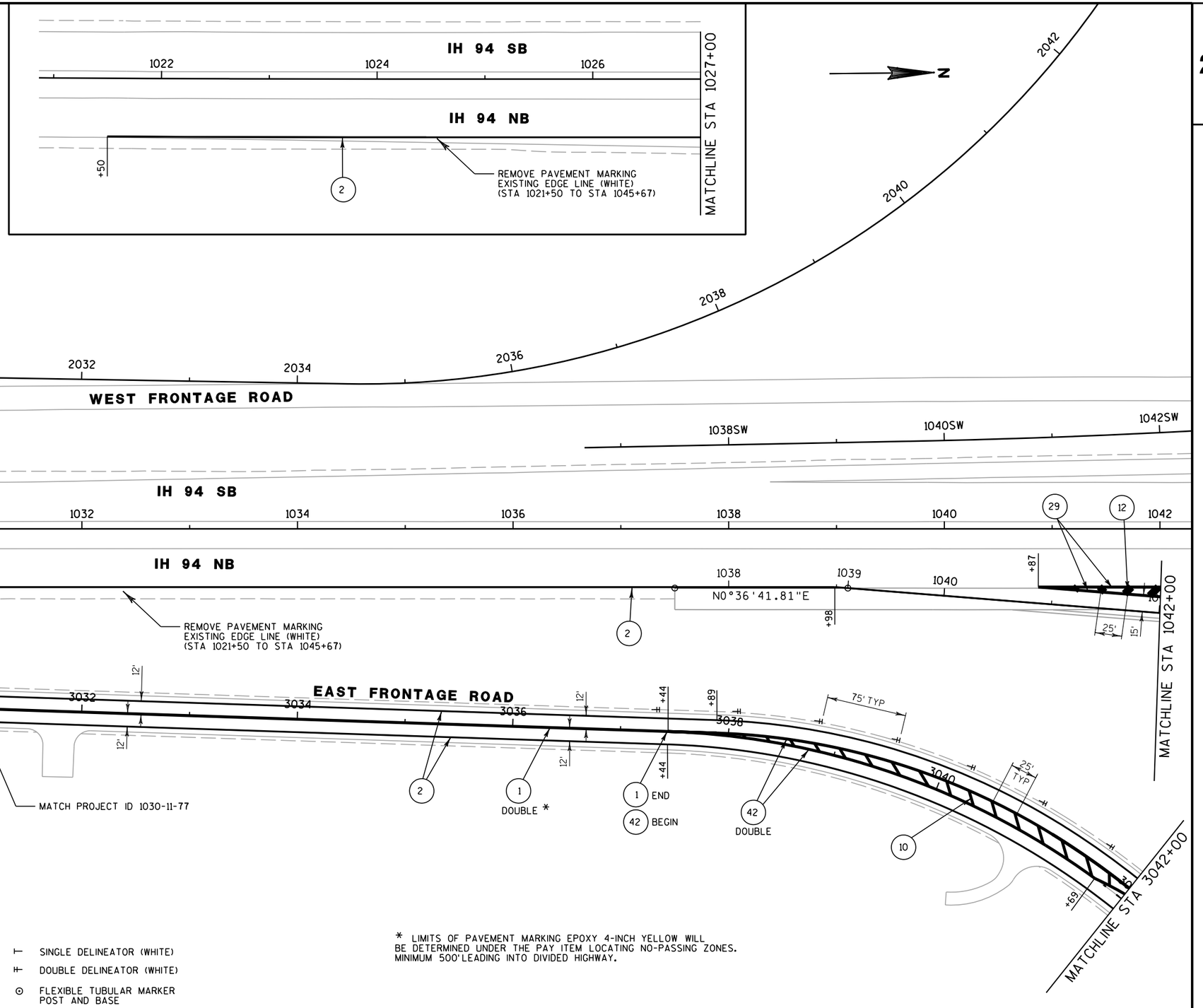
16745 W. Bluemound Road, Brookfield WI 53005
262-781-1000 Fax 262-781-8466
www.rasmithnational.com

WISCONSIN
BRIAN
PLUEMER
E-35072
BROOKFIELD
WI
PROFESSIONAL ENGINEER

11/29/2011 (Date)

(Signature)

THIS STAMP APPLIES TO PAVEMENT MARKING PLANS
1 TO 6 OF 6



LEGEND

1	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2	PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE 12.5 FT LINE 37.5 FT SKIP)
5	PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE 3 FT LINE 9 FT SKIP)
6	PAVEMENT MARKING EPOXY 8-INCH (CHANNELIZING WHITE)
7	PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
10	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
12	PAVEMENT MARKING DIAGONAL EPOXY 24-INCH (WHITE)
14	PAVEMENT MARKING WORDS EPOXY (WHITE)
16	PAVEMENT MARKING ARROWS TYPE 2
17	PAVEMENT MARKING ARROWS TYPE 3
20	PAVEMENT MARKING CURB EPOXY (YELLOW)
21	PAVEMENT MARKING ISLAND NOSE EPOXY
29	PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH
42	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (YELLOW)

⊢ SINGLE DELINEATOR (WHITE)

⊢⊢ DOUBLE DELINEATOR (WHITE)

⊙ FLEXIBLE TUBULAR MARKER POST AND BASE

* LIMITS OF PAVEMENT MARKING EPOXY 4-INCH YELLOW WILL BE DETERMINED UNDER THE PAY ITEM LOCATING NO-PASSING ZONES. MINIMUM 500' LEADING INTO DIVIDED HIGHWAY.

SHEET 1 OF 6

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PAVEMENT MARKING	SCALE, FEET 0 50 100	SHEET 83	E

2

N

MICHEL COURT

EAST FRONTAGE ROAD

MATCHLINE STA 3042+00

MATCHLINE STA 46+00

MATCHLINE STA 53+00

MATCHLINE STA 5054+00

CTH K

ADAMS ROAD

R/L DITCH C

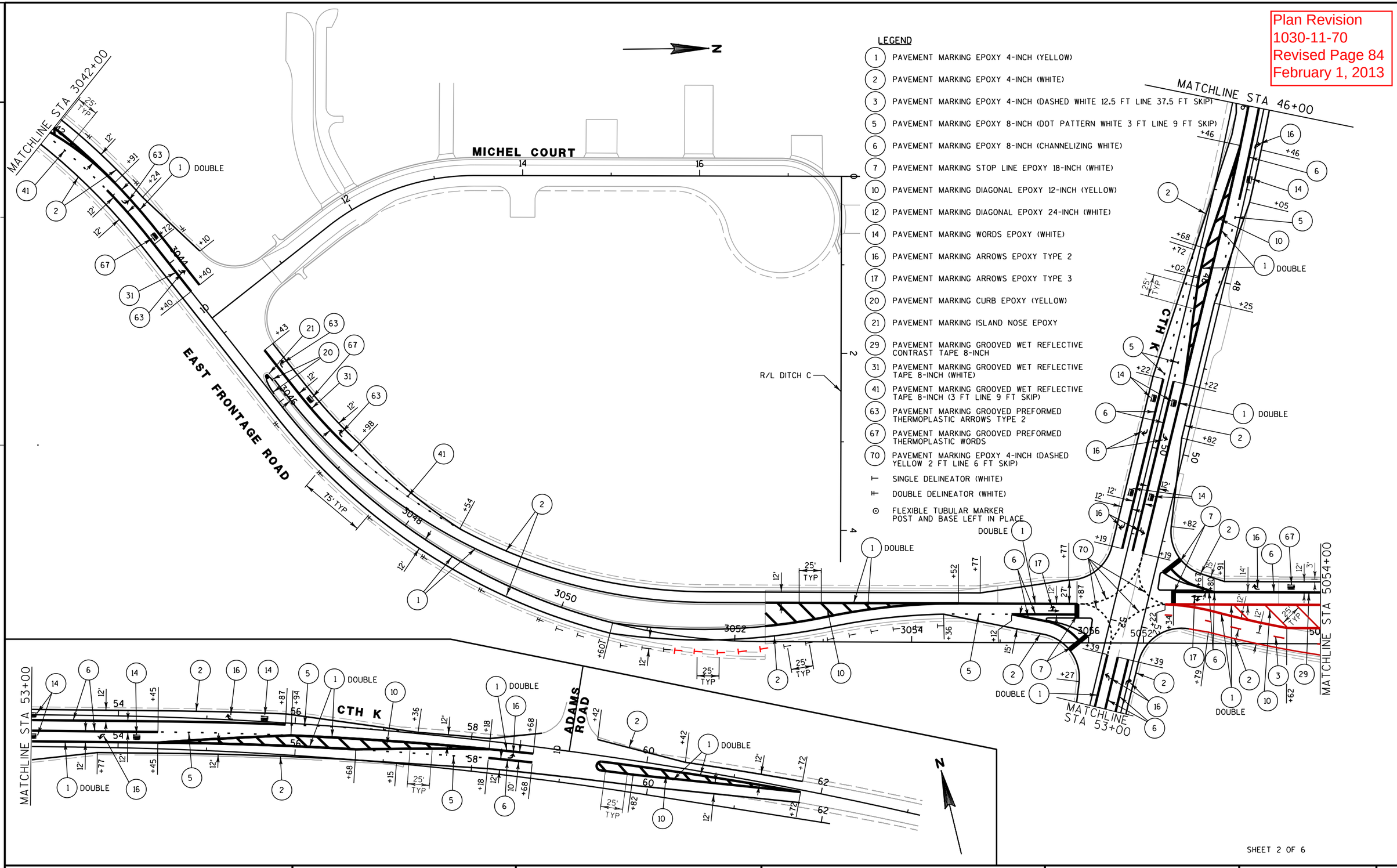
LEGEND

1	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2	PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE 12.5 FT LINE 37.5 FT SKIP)
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6	PAVEMENT MARKING EPOXY 8-INCH (CHANNELIZING WHITE)
7	PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
10	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
12	PAVEMENT MARKING DIAGONAL EPOXY 24-INCH (WHITE)
14	PAVEMENT MARKING WORDS EPOXY (WHITE)
16	PAVEMENT MARKING ARROWS TYPE 2
17	PAVEMENT MARKING ARROWS TYPE 3
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19	PAVEMENT MARKING ISLAND NOSE EPOXY
29	PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH
31	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
41	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (3 FT LINE 9 FT SKIP)
63	PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2
67	PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS
70	PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW 2 FT LINE 6 FT SKIP)
⊢	SINGLE DELINEATOR (WHITE)
⊩	DOUBLE DELINEATOR (WHITE)
⊙	FLEXIBLE TUBULAR MARKER POST AND BASE

REPLACED WITH
REVISED SHEET 84
2-1-2013

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PAVEMENT MARKING	SCALE, FEET 0 50 100	SHEET 84	E

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1030-11-70
Revised Page 84
February 1, 2013



LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3. PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE 12.5 FT LINE 37.5 FT SKIP)
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12. PAVEMENT MARKING DIAGONAL EPOXY 24-INCH (WHITE)
14. PAVEMENT MARKING WORDS EPOXY (WHITE)
16. PAVEMENT MARKING ARROWS EPOXY TYPE 2
17. PAVEMENT MARKING ARROWS EPOXY TYPE 3
20. PAVEMENT MARKING CURB EPOXY (YELLOW)
21. PAVEMENT MARKING ISLAND NOSE EPOXY
29. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH
31. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
41. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (3 FT LINE 9 FT SKIP)
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67. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS
70. PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW 2 FT LINE 6 FT SKIP)

⊢ SINGLE DELINEATOR (WHITE)

⊩ DOUBLE DELINEATOR (WHITE)

⊙ FLEXIBLE TUBULAR MARKER POST AND BASE LEFT IN PLACE

SHEET 2 OF 6

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PAVEMENT MARKING	SCALE, FEET 0 50 100	REVISED SHEET 84	E

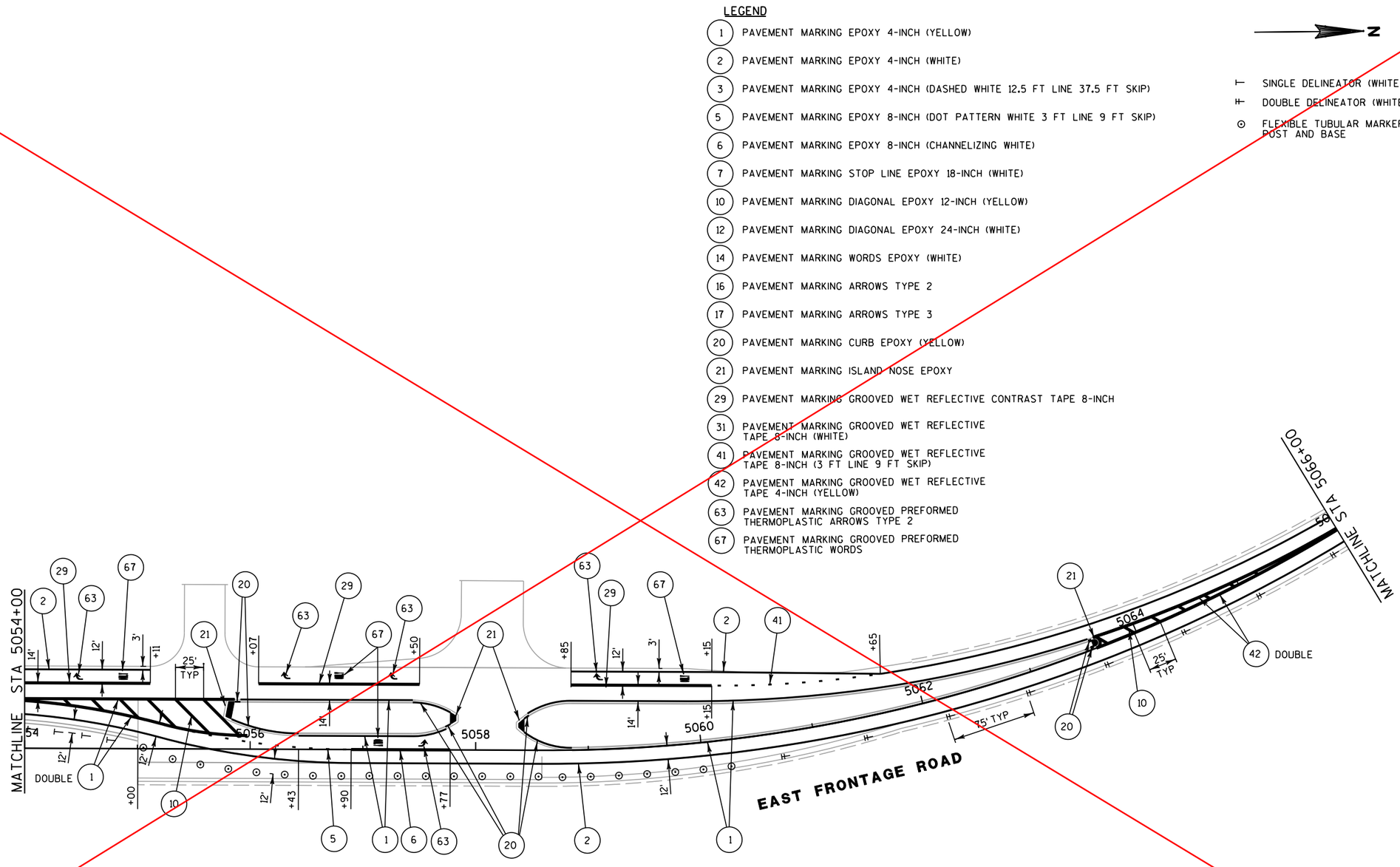
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LEGEND

1 PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2 PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3 PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE 12.5 FT LINE 37.5 FT SKIP)
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14 PAVEMENT MARKING WORDS EPOXY (WHITE)
16 PAVEMENT MARKING ARROWS TYPE 2
17 PAVEMENT MARKING ARROWS TYPE 3
20 PAVEMENT MARKING CURB EPOXY (YELLOW)
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29 PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH
31 PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
41 PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (3 FT LINE 9 FT SKIP)
42 PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (YELLOW)
63 PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2
67 PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS

N

⊢ SINGLE DELINEATOR (WHITE)
⊩ DOUBLE DELINEATOR (WHITE)
⊙ FLEXIBLE TUBULAR MARKER POST AND BASE



REPLACED WITH
REVISED SHEET 85
2-1-2013

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PAVEMENT MARKING	SCALE, FEET 0 50 100	SHEET 85	E

2

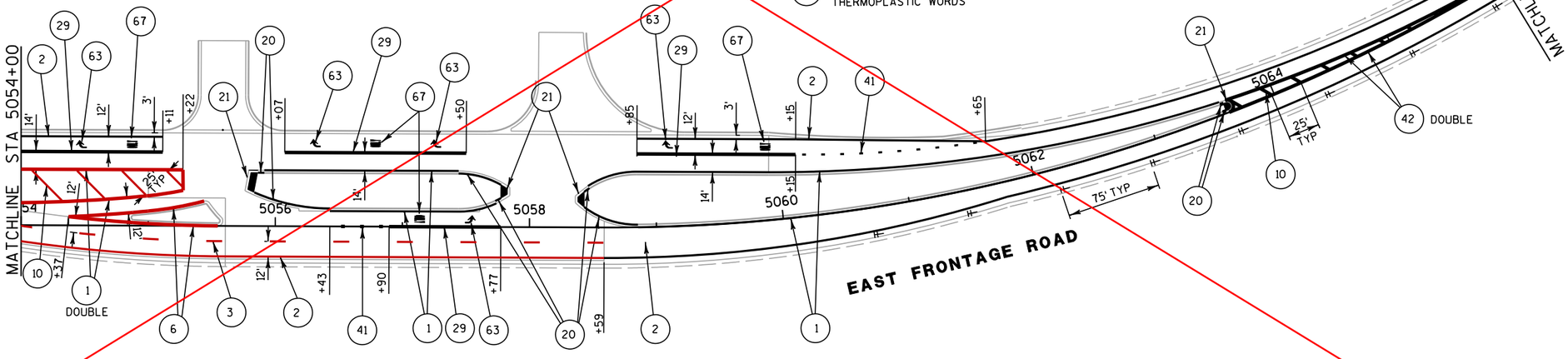
LEGEND

1 PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2 PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3 PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE 12.5 FT LINE 37.5 FT SKIP)
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14 PAVEMENT MARKING WORDS EPOXY (WHITE)
16 PAVEMENT MARKING ARROWS EPOXY TYPE 2
17 PAVEMENT MARKING ARROWS EPOXY TYPE 3
20 PAVEMENT MARKING CURB EPOXY (YELLOW)
21 PAVEMENT MARKING ISLAND NOSE EPOXY
29 PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH
31 PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
41 PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (3 FT LINE 9 FT SKIP)
42 PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (YELLOW)
63 PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2
67 PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS

N

⊢ SINGLE DELINEATOR (WHITE)
⊢⊢ DOUBLE DELINEATOR (WHITE)
⊙ FLEXIBLE TUBULAR MARKER POST AND BASE LEFT IN PLACE

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1030-11-70
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February 1, 2013



REPLACED WITH
REVISED SHEET 85
5-16-2013

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PAVEMENT MARKING	SCALE, FEET 0 50 100	~~REVISED SHEET 85~~	E

2

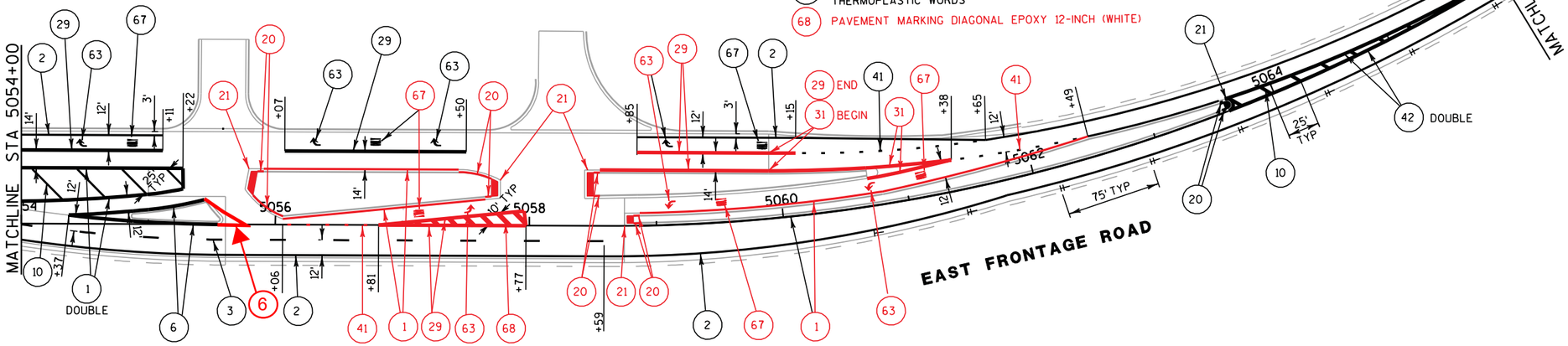
LEGEND

1 PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2 PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3 PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE 12.5 FT LINE 37.5 FT SKIP)
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6 PAVEMENT MARKING EPOXY 8-INCH (CHANNELIZING WHITE)
7 PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
10 PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
12 PAVEMENT MARKING DIAGONAL EPOXY 24-INCH (WHITE)
14 PAVEMENT MARKING WORDS EPOXY (WHITE)
16 PAVEMENT MARKING ARROWS EPOXY TYPE 2
17 PAVEMENT MARKING ARROWS EPOXY TYPE 3
20 PAVEMENT MARKING CURB EPOXY (YELLOW)
21 PAVEMENT MARKING ISLAND NOSE EPOXY
29 PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH
31 PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
41 PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (3 FT LINE 9 FT SKIP)
42 PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (YELLOW)
63 PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2
67 PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS
68 PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)

N

⊢ SINGLE DELINEATOR (WHITE)
⊢⊢ DOUBLE DELINEATOR (WHITE)
⊙ FLEXIBLE TUBULAR MARKER POST AND BASE LEFT IN PLACE

Plan Revision
1030-11-70
Revised Page 85
May 16, 2013



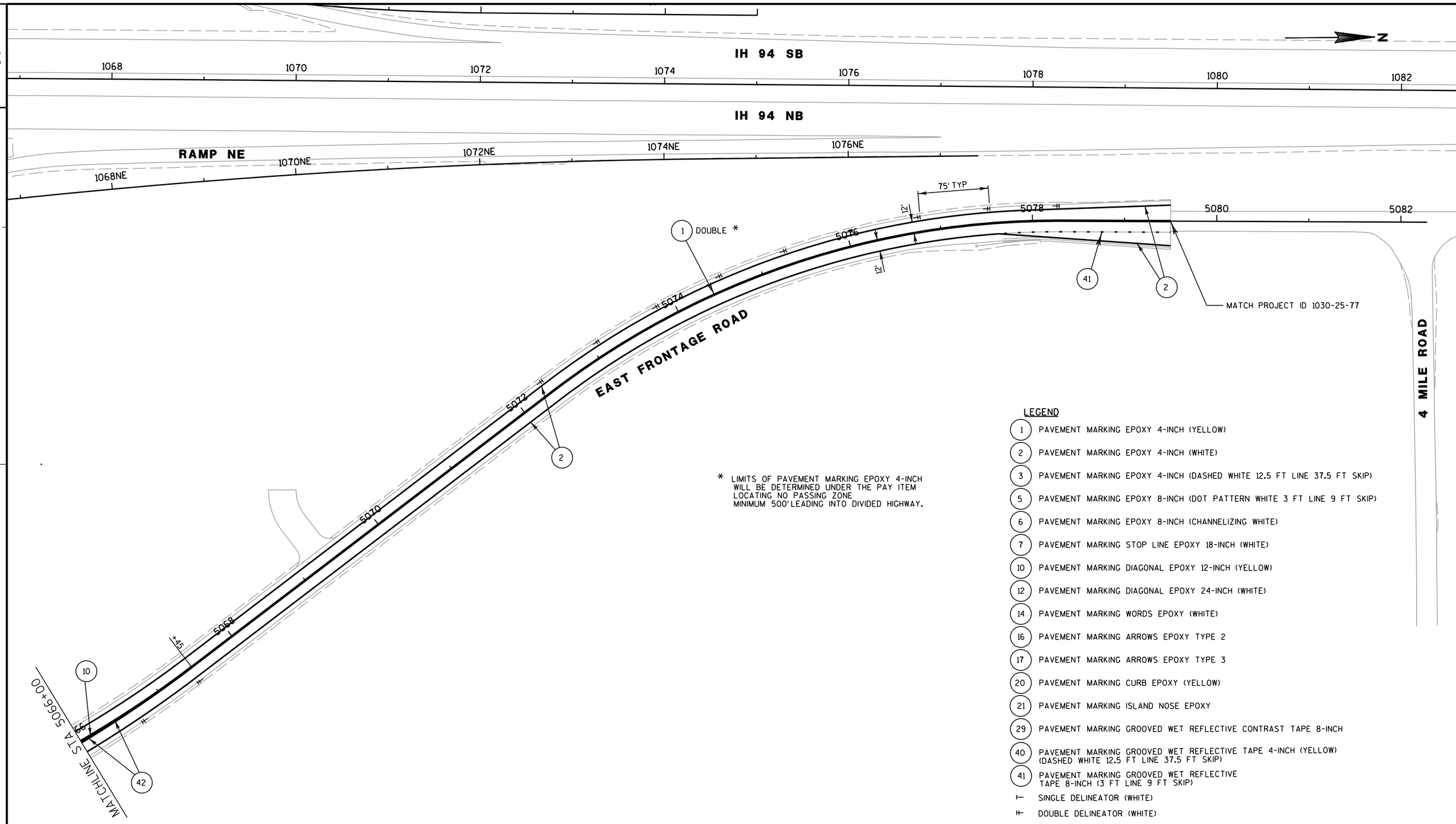
REVISED MAY 15, 2013
R.A. SMITH NATIONAL

SHEET 3 OF 6

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PAVEMENT MARKING	SCALE, FEET 0 50 100	REVISED SHEET 85	E

FILE NAME : t:\1052705\Cadd\sheets\PAVEMENT MARKING\EFR_70\024503_pm.DGN PLOT DATE : 5/15/2013 PLOT BY : dgw PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42



* LIMITS OF PAVEMENT MARKING EPOXY 4-INCH WILL BE DETERMINED UNDER THE PAY ITEM LOCATING NO PASSING ZONE MINIMUM 500'LEADING INTO DIVIDED HIGHWAY.

LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3. PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE 12.5 FT LINE 37.5 FT SKIP)
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7. PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
10. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
12. PAVEMENT MARKING DIAGONAL EPOXY 24-INCH (WHITE)
14. PAVEMENT MARKING WORDS EPOXY (WHITE)
16. PAVEMENT MARKING ARROWS EPOXY TYPE 2
17. PAVEMENT MARKING ARROWS EPOXY TYPE 3
20. PAVEMENT MARKING CURB EPOXY (YELLOW)
21. PAVEMENT MARKING ISLAND NOSE EPOXY
29. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH
40. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (YELLOW) (DASHED WHITE 12.5 FT LINE 37.5 FT SKIP)
41. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (3 FT LINE 9 FT SKIP)

⊢ SINGLE DELINEATOR (WHITE)

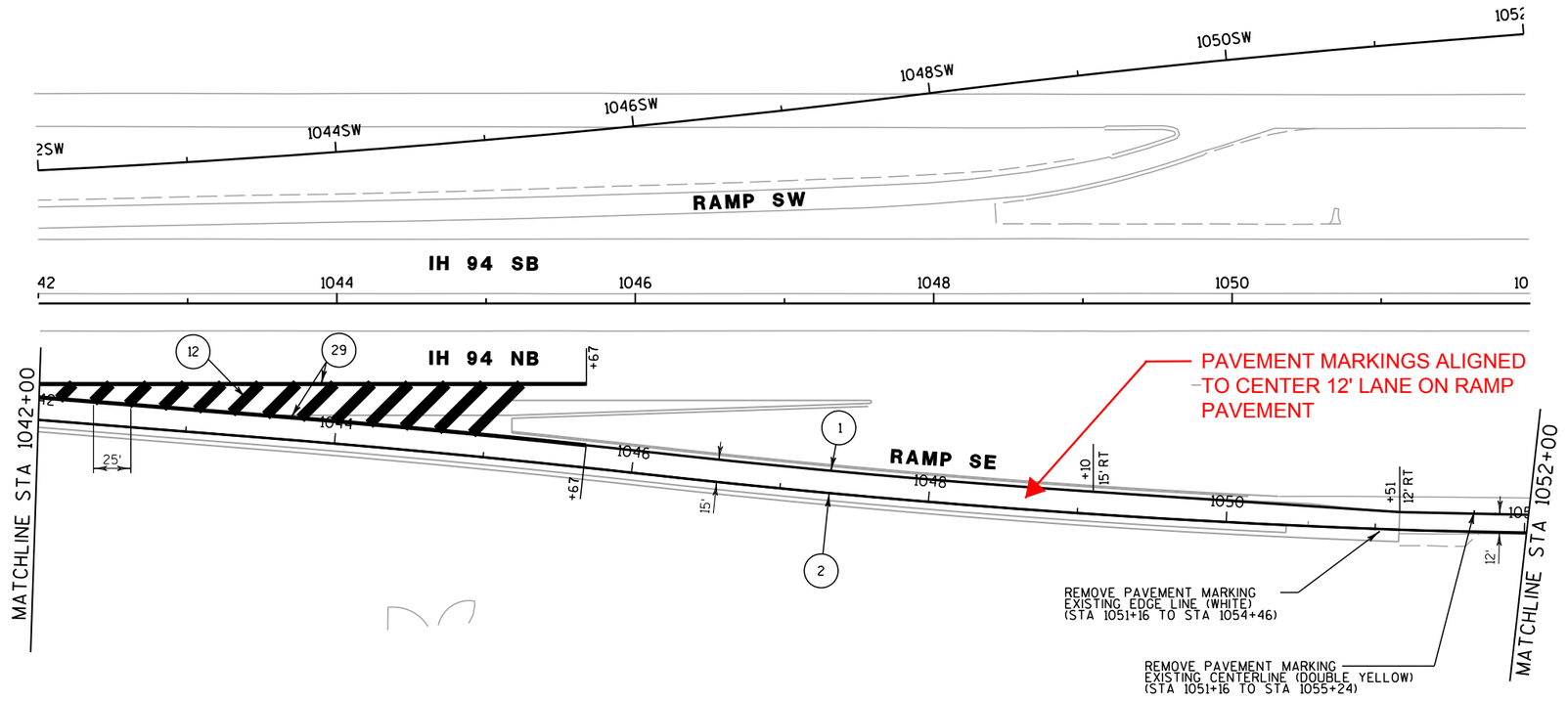
⊩ DOUBLE DELINEATOR (WHITE)

⊙ FLEXIBLE TUBULAR MARKER POST AND BASE LEFT IN PLACE

SHEET 4 OF 6

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PAVEMENT MARKING	SCALE, FEET 0 50 100	SHEET 86	E

2



N

LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3. PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE 12.5 FT LINE 37.5 FT SKIP)
5. PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE 3 FT LINE 9 FT SKIP)
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16. PAVEMENT MARKING ARROWS TYPE 2
17. PAVEMENT MARKING ARROWS TYPE 3
20. PAVEMENT MARKING CURB EPOXY (YELLOW)
21. PAVEMENT MARKING ISLAND NOSE EPOXY
29. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH

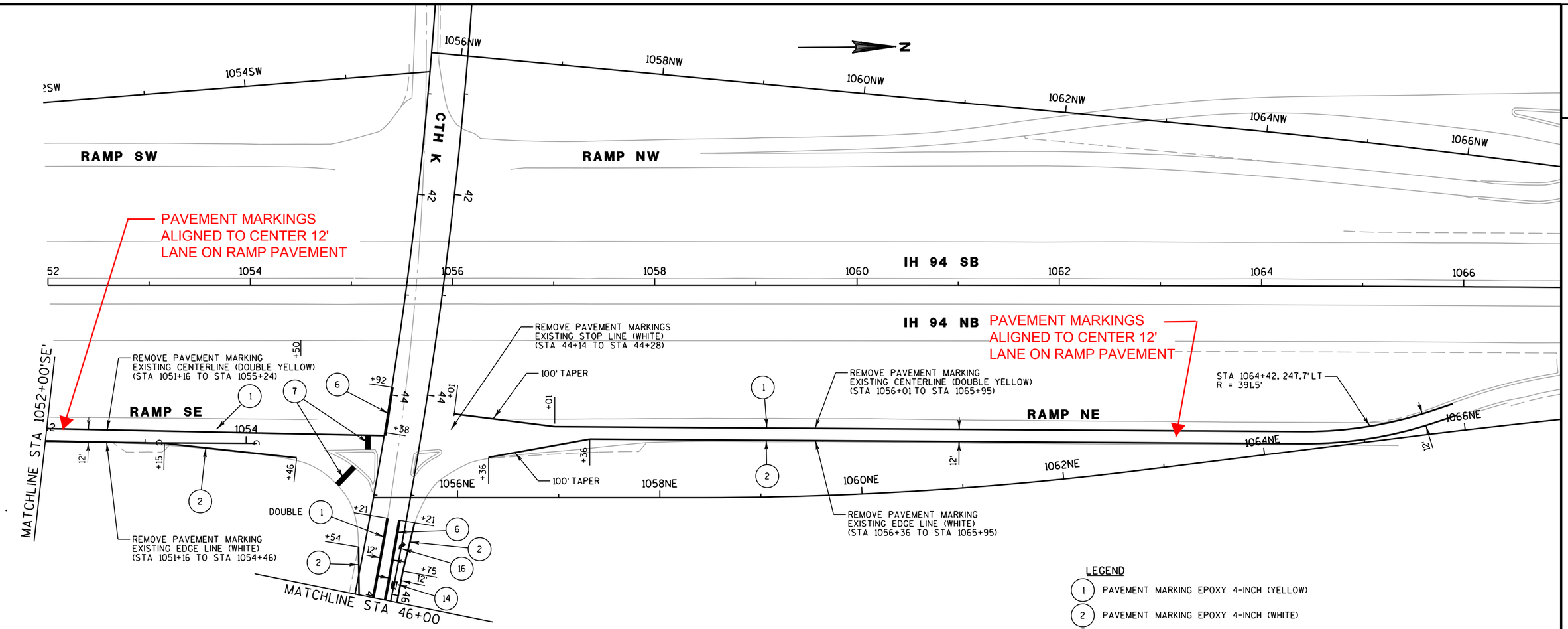
⊢ SINGLE DELINEATOR (WHITE)

⊙ FLEXIBLE TUBULAR MARKER POST AND BASE

SHEET 5 OF 6

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PAVEMENT MARKING	SCALE, FEET 0 50 100	SHEET	E

FILE NAME : t:\1052705\cadd\sheets\pavement marking\efr_70\024505_pm.dgn PLOT DATE : 11/29/2011 PLOT BY : trg PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



LEGEND

1	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2	PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE 12.5 FT LINE 37.5 FT SKIP)
5	PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE 3 FT LINE 9 FT SKIP)
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14	PAVEMENT MARKING WORDS EPOXY (WHITE)
16	PAVEMENT MARKING ARROWS TYPE 2
17	PAVEMENT MARKING ARROWS TYPE 3
20	PAVEMENT MARKING CURB EPOXY (YELLOW)
21	PAVEMENT MARKING ISLAND NOSE EPOXY
29	PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH
⊢	SINGLE DELINEATOR (WHITE)
⊙	FLEXIBLE TUBULAR MARKER POST AND BASE

SHEET 6 OF 6

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PAVEMENT MARKING	SCALE, FEET 0 50 100	SHEET 88	E

2

2

STAGE 1A

CONSTRUCTION

- GRADING EAST FRONTAGE ROAD ON NEW ALIGNMENT
- MICHEL COURT

TRAFFIC

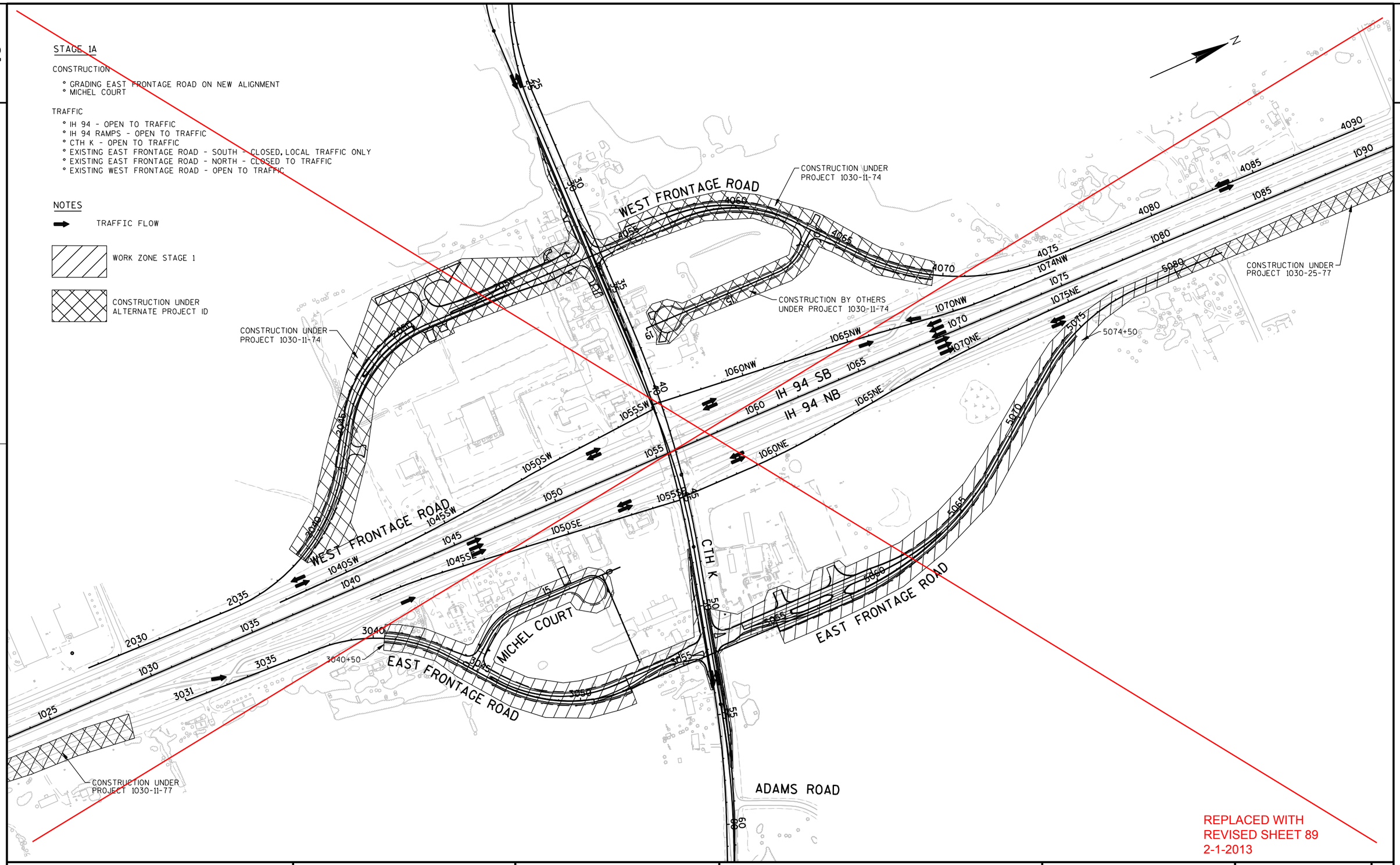
- IH 94 - OPEN TO TRAFFIC
- IH 94 RAMPS - OPEN TO TRAFFIC
- CTH K - OPEN TO TRAFFIC
- EXISTING EAST FRONTAGE ROAD - SOUTH - CLOSED, LOCAL TRAFFIC ONLY
- EXISTING EAST FRONTAGE ROAD - NORTH - CLOSED TO TRAFFIC
- EXISTING WEST FRONTAGE ROAD - OPEN TO TRAFFIC

NOTES

TRAFFIC FLOW

WORK ZONE STAGE 1

CONSTRUCTION UNDER ALTERNATE PROJECT ID



REPLACED WITH REVISED SHEET 89 2-1-2013

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	TRAFFIC CONTROL OVERVIEW: STAGE 1A	SCALE, FEET 0 200 400	SHEET 89	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\026000_tc.dgn PLOT DATE : 29-AUG-2011 16:42 PLOT BY : rmakoutz PLOT NAME : 026000_tc PLOT SCALE : 400:1

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1030-11-70
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February 1, 2013

STAGE 1A

CONSTRUCTION

- GRADING EAST FRONTAGE ROAD ON NEW ALIGNMENT
- MICHEL COURT

TRAFFIC

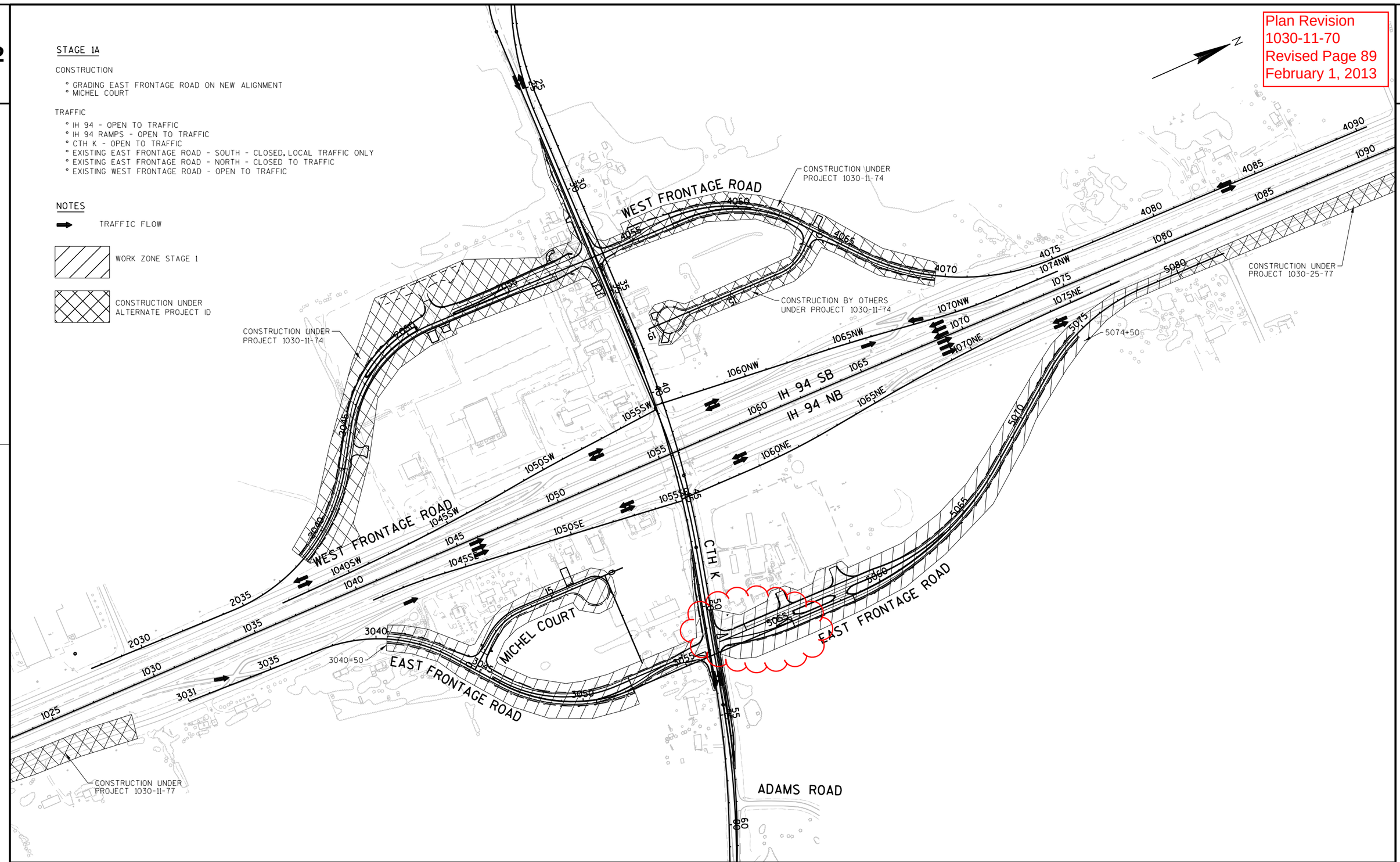
- IH 94 - OPEN TO TRAFFIC
- IH 94 RAMPS - OPEN TO TRAFFIC
- CTH K - OPEN TO TRAFFIC
- EXISTING EAST FRONTAGE ROAD - SOUTH - CLOSED, LOCAL TRAFFIC ONLY
- EXISTING EAST FRONTAGE ROAD - NORTH - CLOSED TO TRAFFIC
- EXISTING WEST FRONTAGE ROAD - OPEN TO TRAFFIC

NOTES

TRAFFIC FLOW

WORK ZONE STAGE 1

CONSTRUCTION UNDER ALTERNATE PROJECT ID



PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	TRAFFIC CONTROL OVERVIEW: STAGE 1A	SCALE, FEET 0 200 400	REVISED SHEET 89	E

GENERAL NOTES FOR CONSTRUCTION STAGING AND TRAFFIC CONTROL

1) ALL TRAFFIC CONTROL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED IN THE PLANS

2) "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS REFLECTIVE ORANGE

3) TRAFFIC CONTROL DRUMS IN TAPERS SHALL BE EQUIPPED WITH TRAFFIC CONTROL WARNING LIGHTS, TYPE "C". ONE WAY LIGHTS IN TAPERS ONLY, TAPERS AND 100 FT OC ON TANGENTS OR AS OTHERWISE SHOWN.

4) SIGN LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATION SPACING MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO MEET FIELD CONDITIONS.

5) ALL SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE COVERED OR REMOVED AS NEEDED AND/OR AS DIRECTED BY THE ENGINEER. COVERING OF SIGNS IS INCLUDED IN THE COST OF 643.0100 TRFFIC CONTROL ITEM.

6) ALL EXISTING CONFLICTING PAVEMENT MARKING SHALL BE REMOVED

7) A FLAGGER MAY BE REQUIRED WHERE CONSTRUCTION VEHICLES ENTER OR LEAVE

LEGEND

- CONSTRUCTION THIS STAGE
- TRAFFIC FLOW
- TRAFFIC CONTROL DRUM WITH/WITHOUT TRAFFIC CONTROL WARNING LIGHT TYPE C
- POST MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL BARRICADE TYPE III WITH TWO TRAFFIC CONTROL WARNING LIGHTS TYPE A WITH/WITHOUT SIGN
- (TY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (TW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (WR) WET REFLECTIVE REMOVABLE TEMPORARY PAVEMENT MARKING TAPE (WHITE)
- MB PORTABLE CHANGABLE MESSAGE SIGN
- CC CRASH CUSHION

ROAD WORK AHEAD W20-1
E AST M3-2 24" X 12"
COUNTY K M1-5A 24" X 24"

FREEWAY ENTRANCE ONLY
SEE PERMANENT SIGNING PLAN

ROAD CLOSED 0.2 MILES AHEAD FREEWAY TRAFFIC ONLY R11-3 60" X 30"

ROAD CLOSED 1/4 MILES AHEAD FREEWAY TRAFFIC ONLY R11-3 60" X 30"

ROAD WORK 500 FT W20-1

ROAD WORK 250 FT W20-1

SHOULDER WORK W21-5

MB — USE PORTABLE CHANGEABLE MESSAGE SIGN 14 DAYS PRIOR TO CTH K LANE CLOSURE. MESSAGE TO READ "SHOULDER CLOSURE TO BEGIN" AND DATE

REMOVE DRIVEWAY UPON COMPLETION OF MICHEL COURT

CTH K

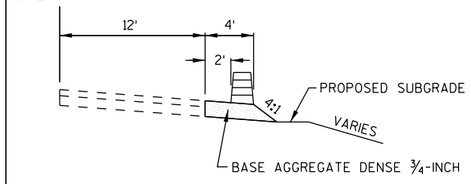
IH 94 SB

IH 94 NB

MATCHLINE 55+50

PLACEMENT OF TRAFFIC CONTROL DEVICE ALONG CTH K

4' RT OF EXISTING C/L CTH K



STA 47+50 TO STA 54+00

REPLACED WITH REVISED SHEET 90 2-1-2013

SHEET 1 OF 12

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1A	SCALE, FEET 0 50 100	SHEET 90	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\026001_s1a.dgn PLOT DATE : 22-JUN-2012 12:28 PLOT BY : rmakoutz PLOT NAME : 026001_s1a PLOT SCALE : 100:1

GENERAL NOTES FOR CONSTRUCTION STAGING AND TRAFFIC CONTROL

1) ALL TRAFFIC CONTROL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED IN THE PLANS

2) "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS REFLECTIVE ORANGE

3) TRAFFIC CONTROL DRUMS IN TAPERS SHALL BE EQUIPPED WITH TRAFFIC CONTROL WARNING LIGHTS, TYPE "C". ONE WAY LIGHTS IN TAPERS ONLY, TAPERS AND 100 FT OC ON TANGENTS OR AS OTHERWISE SHOWN.

4) SIGN LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATION SPACING MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO MEET FIELD CONDITIONS.

5) ALL SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE COVERED OR REMOVED AS NEEDED AND/OR AS DIRECTED BY THE ENGINEER. COVERING OF SIGNS IS INCLUDED IN THE COST OF 643.0100 TRFFIC CONTROL ITEM.

6) ALL EXISTING CONFLICTING PAVEMENT MARKING SHALL BE REMOVED

7) A FLAGGER MAY BE REQUIRED WHERE CONSTRUCTION VEHICLES ENTER OR LEAVE

LEGEND

- CONSTRUCTION THIS STAGE
- TRAFFIC FLOW
- TRAFFIC CONTROL DRUM WITH/WITHOUT TRAFFIC CONTROL WARNING LIGHT TYPE C
- POST MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL BARRICADE TYPE III WITH TWO TRAFFIC CONTROL WARNING LIGHTS TYPE A WITH/WITHOUT SIGN
- (TY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (TW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (WR) WET REFLECTIVE REMOVABLE TEMPORARY PAVEMENT MARKING TAPE (WHITE)
- [MB] PORTABLE CHANGABLE MESSAGE SIGN
- [CC] CRASH CUSHION

ROAD WORK AHEAD W20-1
E AST M3-2 24" X 12"
COUNTY K M1-5A 24" X 24"

FREEWAY ENTRANCE ONLY
SEE PERMANENT SIGNING PLAN

ROAD CLOSED 0.2 MILES AHEAD FREEWAY TRAFFIC ONLY R11-3 60" X 30"

ROAD CLOSED 1/4 MILES AHEAD FREEWAY TRAFFIC ONLY R11-3 60" X 30"

ROAD WORK 500 FT W20-1

ROAD WORK 250 FT W20-1

SHOULDER WORK W21-5

CTH K

IH 94 SB

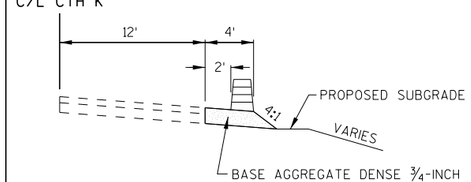
IH 94 NB

[MB] USE PORTABLE CHANGEABLE MESSAGE SIGN 14 DAYS PRIOR TO CTH K LANE CLOSURE. MESSAGE TO READ "SHOULDER CLOSURE TO BEGIN" AND DATE

REMOVE DRIVEWAY UPON COMPLETION OF MICHEL COURT

PLACEMENT OF TRAFFIC CONTROL DEVICE ALONG CTH K

4' RT OF EXISTING C/L CTH K



STA 47+50 TO STA 54+00

MATCHLINE 55+50

Plan Revision
1030-11-70
Revised Page 90
February 1, 2013

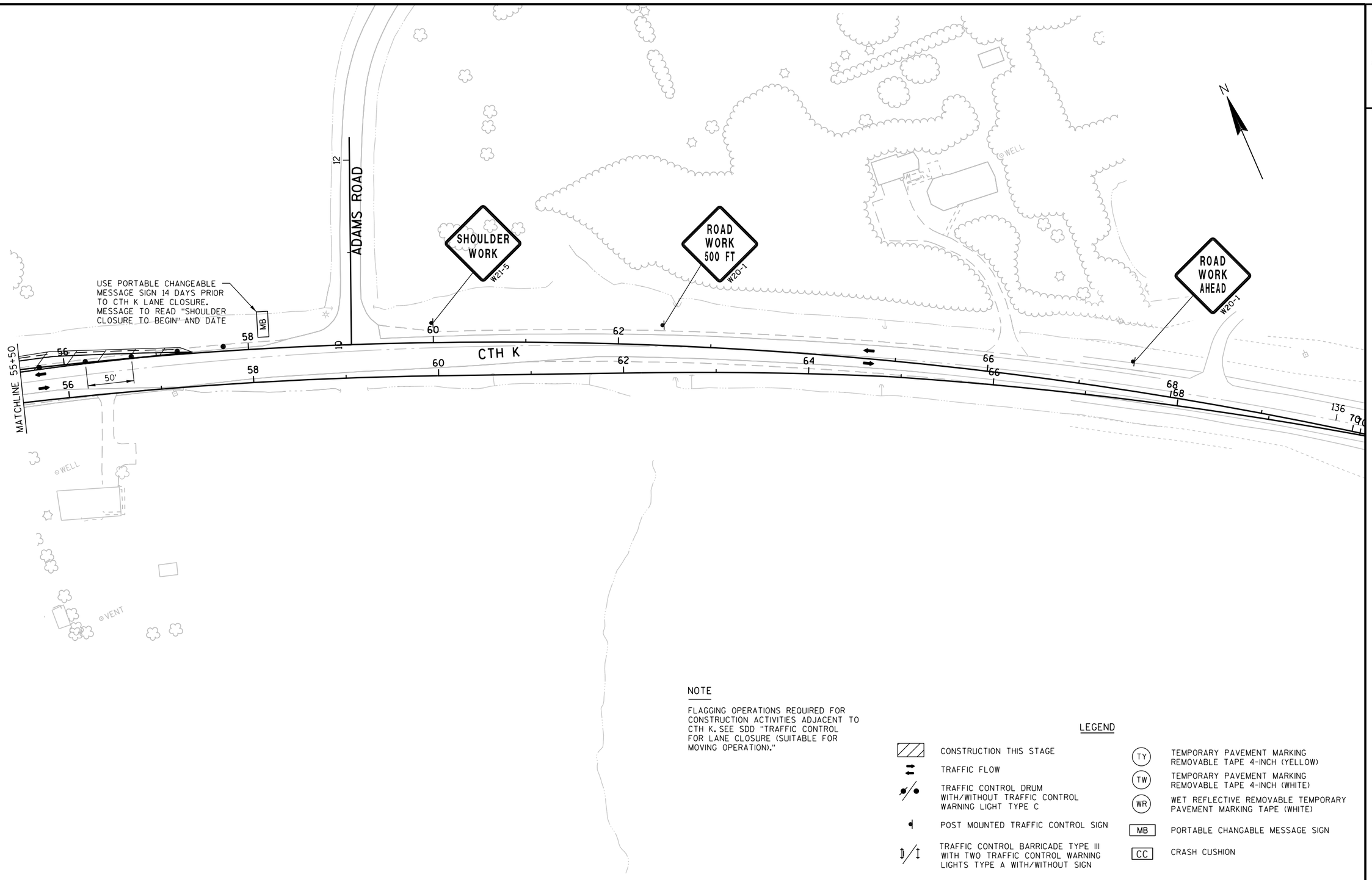
SHEET 1 OF 12

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1A	SCALE, FEET 0 50 100	REVISED SHEET 90	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\026001_s1a.dgn PLOT DATE : 01-FEB-2013 09:55 PLOT BY : ceven PLOT NAME : 026001_s1a PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2



NOTE

FLAGGING OPERATIONS REQUIRED FOR CONSTRUCTION ACTIVITIES ADJACENT TO CTH K. SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATION."

LEGEND

- CONSTRUCTION THIS STAGE
- TRAFFIC FLOW
- TRAFFIC CONTROL DRUM WITH/WITHOUT TRAFFIC CONTROL WARNING LIGHT TYPE C
- POST MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL BARRICADE TYPE III WITH TWO TRAFFIC CONTROL WARNING LIGHTS TYPE A WITH/WITHOUT SIGN
- (TY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (TW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (WR) WET REFLECTIVE REMOVABLE TEMPORARY PAVEMENT MARKING TAPE (WHITE)
- [MB] PORTABLE CHANGABLE MESSAGE SIGN
- [CC] CRASH CUSHION

SHEET 2 OF 12

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1A	SCALE, FEET 0 50 100	SHEET 91	E

2

N

2027 2028 2030 2032 2034 2036 2038

1038SW 1040SW 1042SW

1028 1030 1032 1034 1036 1038 1040 1042

1038 N0°36'41.81"E 1040 1042SE N3°09'04.18"E

ROAD CLOSED
R11-2
48" X 30"

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

50' TYP

ROAD WORK AHEAD
W20-1

3030 3032 3034 3036 3038 3040 3042

INL

SHED HSE C T VENT WELL

LEGEND

- CONSTRUCTION THIS STAGE
- TRAFFIC FLOW
- TRAFFIC CONTROL DRUM WITH/WITHOUT TRAFFIC CONTROL WARNING LIGHT TYPE C
- POST MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL BARRICADE TYPE III WITH TWO TRAFFIC CONTROL WARNING LIGHTS TYPE A WITH/WITHOUT SIGN
- (TY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (TW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (WR) WET REFLECTIVE REMOVABLE TEMPORARY PAVEMENT MARKING TAPE (WHITE)
- [MB] PORTABLE CHANGABLE MESSAGE SIGN
- [CC] CRASH CUSHION

SHEET 3 OF 12

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1A	SCALE, FEET 0 50 100	SHEET 92	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\026003_s1a.dgn PLOT DATE : 22-JUN-2012 12:28 PLOT BY : rmakoutz PLOT NAME : 026003_s1a PLOT SCALE : 100:1

2

N

4070
4072
4074
4076
4078
4080

1066NW
1068NW
1070NW
1072NW
1074NW

1066
1068
1070
1072
1074
1076
1078
1080

ROAD CLOSED
R11-2
48" X 30"

1066NE
1068NE
1070NE
1072NE
1074NE
1076NE

5078
5080
5076
5074
5072
5070
5068

W01-6
48" X 24"

CONSTRUCTION UNDER
PROJECT 1030-25-77

LEGEND

- CONSTRUCTION THIS STAGE
- TRAFFIC FLOW
- TRAFFIC CONTROL DRUM WITH/WITHOUT TRAFFIC CONTROL WARNING LIGHT TYPE C
- POST MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL BARRICADE TYPE III WITH TWO TRAFFIC CONTROL WARNING LIGHTS TYPE A WITH/WITHOUT SIGN
- (TY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (TW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (WR) WET REFLECTIVE REMOVABLE TEMPORARY PAVEMENT MARKING TAPE (WHITE)
- [MB] PORTABLE CHANGABLE MESSAGE SIGN
- [CC] CRASH CUSHION

SHEET 4 OF 12

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1A	SCALE, FEET 0 50 100	SHEET 93 E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\026004_s1a.dgn PLOT DATE : 22-JUN-2012 12:28 PLOT BY : rmakoutz PLOT NAME : 026004_s1a PLOT SCALE : 100:1

2

STAGE 1B

CONSTRUCTION
- ° TEMPORARY SE RAMP CONNECTION
- ° EAST FRONTAGE ROAD

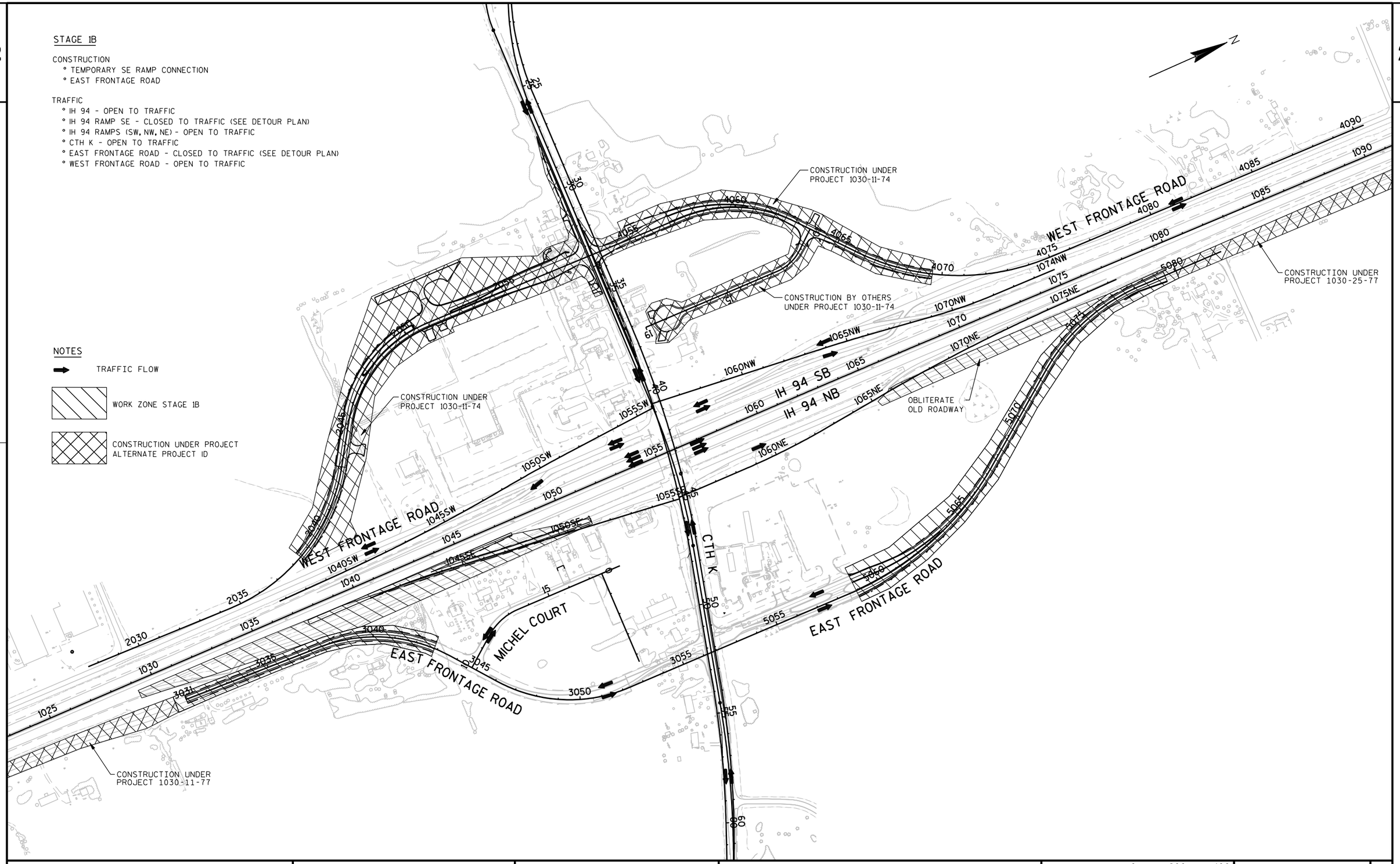
TRAFFIC
- ° IH 94 - OPEN TO TRAFFIC
- ° IH 94 RAMP SE - CLOSED TO TRAFFIC (SEE DETOUR PLAN)
- ° IH 94 RAMPS (SW, NW, NE) - OPEN TO TRAFFIC
- ° CTH K - OPEN TO TRAFFIC
- ° EAST FRONTAGE ROAD - CLOSED TO TRAFFIC (SEE DETOUR PLAN)
- ° WEST FRONTAGE ROAD - OPEN TO TRAFFIC

NOTES

TRAFFIC FLOW

WORK ZONE STAGE 1B

CONSTRUCTION UNDER PROJECT ALTERNATE PROJECT ID



PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	TRAFFIC CONTROL OVERVIEW: STAGE 1B	SCALE, FEET 0 200 400	SHEET 94	E

2

* REPLACE SIGNS WITH



WHEN CONSTRUCTION ACTIVITES DO NOT REQUIRE RIGHT LANE CLOSURE.

GENERAL NOTES FOR CONSTRUCTION STAGING AND TRAFFIC CONTROL

1) ALL TRAFFIC CONTROL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED IN THE PLANS.

2) "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS REFLECTIVE ORANGE.

3) TRAFFIC CONTROL DRUMS IN TAPERS SHALL BE EQUIPPED WITH TRAFFIC CONTROL WARNING LIGHTS, TYPE "C", ONE WAY LIGHTS IN TAPERS ONLY, UNLESS OTHERWISE SHOWN. DRUMS SHALL BE SPACED AT 50 FT OC IN TAPERS AND 100 FT OC ON TANGENTS OR AS OTHERWISE SHOWN.

4) SIGN LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATION AND SPACING MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO MEET FIELD CONDITIONS.

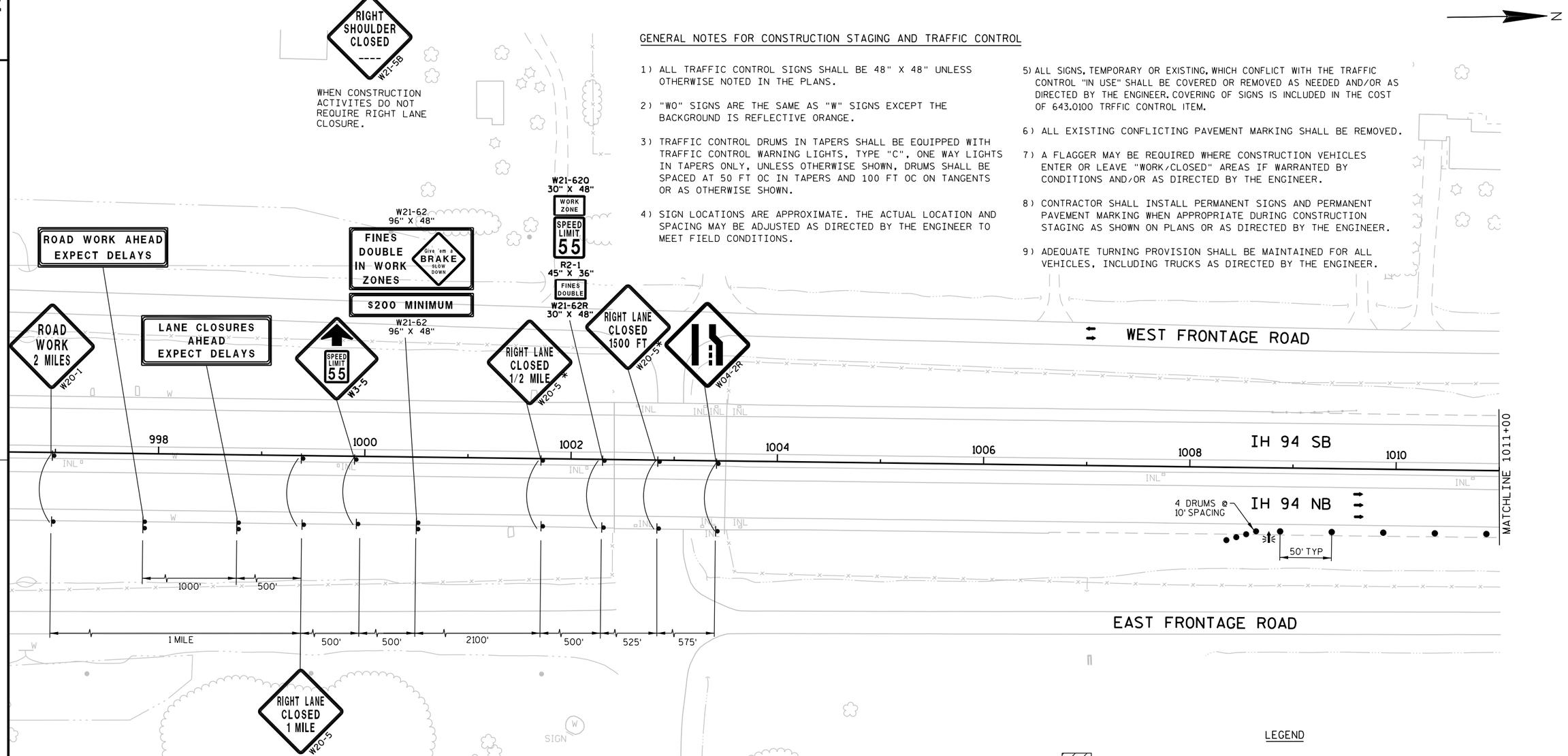
5) ALL SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE COVERED OR REMOVED AS NEEDED AND/OR AS DIRECTED BY THE ENGINEER. COVERING OF SIGNS IS INCLUDED IN THE COST OF 643.0100 TRFFIC CONTROL ITEM.

6) ALL EXISTING CONFLICTING PAVEMENT MARKING SHALL BE REMOVED.

7) A FLAGGER MAY BE REQUIRED WHERE CONSTRUCTION VEHICLES ENTER OR LEAVE "WORK/CLOSED" AREAS IF WARRANTED BY CONDITIONS AND/OR AS DIRECTED BY THE ENGINEER.

8) CONTRACTOR SHALL INSTALL PERMANENT SIGNS AND PERMANENT PAVEMENT MARKING WHEN APPROPRIATE DURING CONSTRUCTION STAGING AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.

9) ADEQUATE TURNING PROVISION SHALL BE MAINTAINED FOR ALL VEHICLES, INCLUDING TRUCKS AS DIRECTED BY THE ENGINEER.



LEGEND

- CONSTRUCTION THIS STAGE
- TRAFFIC FLOW
- TRAFFIC CONTROL DRUM WITH/WITHOUT TRAFFIC CONTROL WARNING LIGHT TYPE C
- POST MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL BARRICADE TYPE III WITH TWO TRAFFIC CONTROL WARNING LIGHTS TYPE A WITH/WITHOUT SIGN
- ARROW BOARD
- (TY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (TW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (WR) WET REFLECTIVE REMOVABLE TEMPORARY PAVEMENT MARKING TAPE (WHITE)
- PCMS PORTABLE CHANGABLE MESSAGE SIGN
- CC CRASH CUSHION

SHEET 5 OF 12

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1B	SCALE, FEET 0 50 100	SHEET 95	E

2

N

WEST FRONTAGE ROAD

RAMP CLOSED 1000 FT
W20-3(MOD)

IH 94 SB

IH 94 NB

MATCHLINE 1011+00

MATCHLINE 1026+00

1012 1014 1016 1018 1020 1022 1024

55'

43'

TW

+00
MATCH EXISTING

+41
MATCH EXISTING

50' TYP

50' TYP

25' TYP

INL

EAST FRONTAGE ROAD

LEGEND

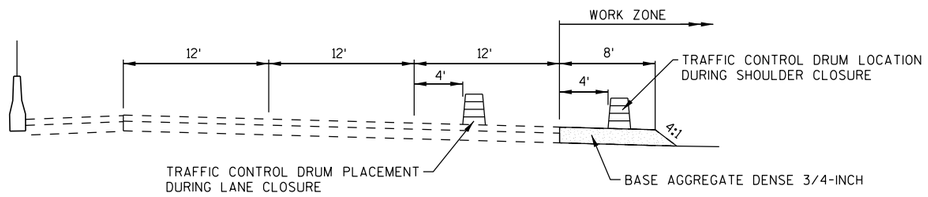
- CONSTRUCTION THIS STAGE
- TRAFFIC FLOW
- TRAFFIC CONTROL DRUM WITH/WITHOUT TRAFFIC CONTROL WARNING LIGHT TYPE C
- POST MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL BARRICADE TYPE III WITH TWO TRAFFIC CONTROL WARNING LIGHTS TYPE A WITH/WITHOUT SIGN
- ARROW BOARD
- (TY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (TW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (WR) WET REFLECTIVE REMOVABLE TEMPORARY PAVEMENT MARKING TAPE (WHITE)
- [PCMS] PORTABLE CHANGABLE MESSAGE SIGN
- [CC] CRASH CUSHION

SHEET 6 OF 12

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1B	SCALE, FEET 0 50 100	SHEET 96	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\026102_s1b.dgn PLOT DATE : 22-JUN-2012 12:28 PLOT BY : rmakoutz PLOT NAME : 026102_s1b PLOT SCALE : 100:1

2



PLACEMENT OF TRAFFIC CONTROL DEVICES
ALONG IH 94

N

WEST FRONTAGE ROAD

1038SW

MATCHLINE 1026+00

1026 1028 1030 1032 1034 1036 1038

MATCHLINE 1041+00

IH 94 SB

IH 94 NB

PCMS

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

3030 3032 3034 3036 3038

EAST FRONTAGE ROAD

USE PORTABLE CHANGABLE MESSAGE SIGN
14 DAYS PRIOR TO RAMP CLOSURE. MESSAGE
TO READ "CTH K RAMP TO CLOSE" AND "DATE"

RAMP WILL
BE CLOSED
XX PM TO XX PM
BEGINNING
XXX XX
R11-51
48" X 48"

INL

W

VENT

SHED

LEGEND

- CONSTRUCTION THIS STAGE
- TRAFFIC FLOW
- TRAFFIC CONTROL DRUM WITH/WITHOUT TRAFFIC CONTROL WARNING LIGHT TYPE C
- POST MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL BARRICADE TYPE III WITH TWO TRAFFIC CONTROL WARNING LIGHTS TYPE A WITH/WITHOUT SIGN
- (TY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (TW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (WR) WET REFLECTIVE REMOVABLE TEMPORARY PAVEMENT MARKING TAPE (WHITE)
- [PCMS] PORTABLE CHANGABLE MESSAGE SIGN
- [CC] CRASH CUSHION

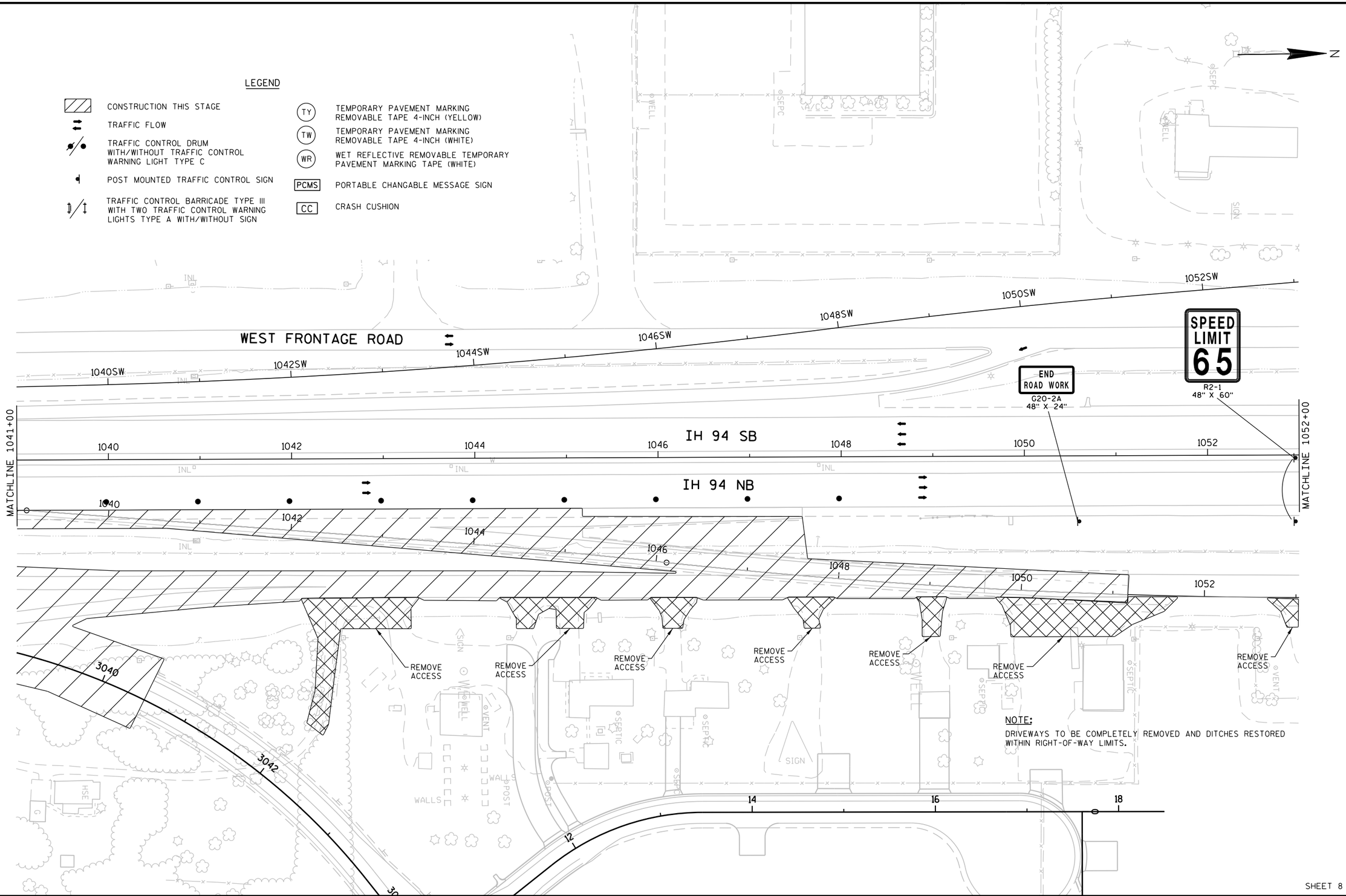
SHEET 7 OF 12

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1B	SCALE, FEET 0 50 100	SHEET 97	E

2

LEGEND

- CONSTRUCTION THIS STAGE
- TRAFFIC FLOW
- TRAFFIC CONTROL DRUM WITH/WITHOUT TRAFFIC CONTROL WARNING LIGHT TYPE C
- POST MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL BARRICADE TYPE III WITH TWO TRAFFIC CONTROL WARNING LIGHTS TYPE A WITH/WITHOUT SIGN
- (TY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (TW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (WR) WET REFLECTIVE REMOVABLE TEMPORARY PAVEMENT MARKING TAPE (WHITE)
- [PCMS] PORTABLE CHANGABLE MESSAGE SIGN
- [CC] CRASH CUSHION



SHEET 8 OF 12

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1B	SCALE, FEET 0 50 100	SHEET 98	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\026104_s1b.dgn PLOT DATE : 22-JUN-2012 12:28 PLOT BY : rmakoutz PLOT NAME : 026104_s1b PLOT SCALE : 100:1

2

2

NOTES
USE THIS TRAFFIC CONTROL WHEN
RAMP WORK IS IN PROGRESS

1060NW
1060
1060NE
1058NW
1058
1058NE
1056NW
1056
1056NE
1054SW
1054
1054SE
5056
5054
3056
3054
3052

IH 94 SB
IH 94 NB
CTH K
EAST FRONTAGE ROAD
EAST FRONTAGE ROAD

40 42 44 46 48 50 52 54

R3-2
24" X 24"

R3-1
24" X 24"

R3-1
24" X 24"

+55

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

ROAD CLOSED
0.1 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
60" X 30"

ROAD CLOSED
500 FT
W20-3

ROAD CLOSED
0.1 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
60" X 30"

ROAD CLOSED
1/4 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
60" X 30"

ROAD CLOSED
1/4 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
60" X 30"

ROAD CLOSED
1000 FT
W20-3

MATCHLINE 1052+00

* TO BE PAID FOR AS
PERMANENT SIGNING

LEGEND

- CONSTRUCTION THIS STAGE
- TRAFFIC FLOW
- TRAFFIC CONTROL DRUM WITH/WITHOUT TRAFFIC CONTROL WARNING LIGHT TYPE C
- POST MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL BARRICADE TYPE III WITH TWO TRAFFIC CONTROL WARNING LIGHTS TYPE A WITH/WITHOUT SIGN
- (TY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (TW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (WR) WET REFLECTIVE REMOVABLE TEMPORARY PAVEMENT MARKING TAPE (WHITE)
- [PCMS] PORTABLE CHANGABLE MESSAGE SIGN
- [CC] CRASH CUSHION

REPLACED WITH
REVISED SHEET 99
2-1-2013

SHEET 9 OF 12

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1B	SCALE, FEET 0 50 100	SHEET 99	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\026105_s1b.dgn PLOT DATE : 22-JUN-2012 12:28 PLOT BY : rmakoutz PLOT NAME : 026105_s1b PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

Plan Revision
1030-11-70
Revised Page 99
February 1, 2013

NOTES
USE THIS TRAFFIC CONTROL WHEN RAMP WORK IS IN PROGRESS

IH 94 SB
IH 94 NB
CTH K
EAST FRONTAGE ROAD
EAST FRONTAGE ROAD

1060NW
1060
1060NE
1058NW
1058
1058NE
1056NW
1056
1056NE
1054SW
1054
1054SE
5056
5054
3056
3054
3052

R3-2
24" X 24"

R3-1
24" X 24"

R3-1
24" X 24"

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

ROAD CLOSED
0.1 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
60" X 30"

ROAD CLOSED
500 FT
W20-3

ROAD CLOSED
0.1 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
60" X 30"

ROAD CLOSED
1/4 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
60" X 30"

ROAD CLOSED
1/4 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
60" X 30"

ROAD CLOSED
1000 FT
W20-3

MATCHLINE 1052+00

* TO BE PAID FOR AS PERMANENT SIGNING

LEGEND

- CONSTRUCTION THIS STAGE
- TRAFFIC FLOW
- TRAFFIC CONTROL DRUM WITH/WITHOUT TRAFFIC CONTROL WARNING LIGHT TYPE C
- POST MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL BARRICADE TYPE III WITH TWO TRAFFIC CONTROL WARNING LIGHTS TYPE A WITH/WITHOUT SIGN
- (TY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (TW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (WR) WET REFLECTIVE REMOVABLE TEMPORARY PAVEMENT MARKING TAPE (WHITE)
- [PCMS] PORTABLE CHANGABLE MESSAGE SIGN
- [CC] CRASH CUSHION

SHEET 9 OF 12

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1B	SCALE, FEET 0 50 100	REVISED SHEET 99	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\026105_s1b.dgn PLOT DATE : 01-FEB-2013 09:55 PLOT BY : ceven PLOT NAME : 026105_s1b PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

2

MATCHLINE 5055+50

LEGEND

- WORK ZONE
- TRAFFIC CONTROL DRUM
- POST MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL BARRICADE TYPE III WITH WARNING LIGHTS TYPE A WITH/WITHOUT SIGN
- TRAFFIC FLOW

N

* TO BE PAID FOR AS PERMANENT SIGNING

NOTES
USE THIS TRAFFIC CONTROL AFTER COMPLETION OF RAMP WORK PRIOR TO BEGINNING STAGE 2 WORK

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

DO NOT ENTER
R5-1
36" X 36"

R3-1
24" X 24"

DO NOT ENTER
R5-1
36" X 36"

R3-2
24" X 24"

WRONG WAY
R5-1A
42" X 30"

SEE PAVEMENT MARKING PLAN

W01-6
48" X 24"

ROAD CLOSED
0.1 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
60" X 30"

ROAD CLOSED
500 FT
W20-3

ROAD CLOSED
0.1 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
60" X 30"

ROAD CLOSED
1/4 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
60" X 30"

ROAD CLOSED
1/4 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
60" X 30"

ROAD CLOSED
1000 FT
W20-3

CTH K

IH 94 SB

IH 94 NB

1058NW 1058 1058NE 1056NW 1056 1056NE 1054SW 1054 1054SE 1052SW 1052 1052SE 1050 1050SE 5054 3056 3054 3052

MATCHLINE 3051+50

REPLACED WITH REVISED SHEET 100 2-1-2013

SHEET 10 OF 12

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1B	SCALE, FEET 0 50 100	SHEET 100	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\026106_s1b.dgn PLOT DATE : 07-AUG-2012 11:38 PLOT BY : rmakoutz PLOT NAME : 026106_s1b PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

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1030-11-70
Revised Page 100
February 1, 2013

2

2

N

MATCHLINE 5055+50

LEGEND

WORK ZONE

TRAFFIC CONTROL DRUM

POST MOUNTED TRAFFIC CONTROL SIGN

TRAFFIC CONTROL BARRICADE TYPE III WITH WARNING LIGHTS TYPE A WITH/WITHOUT SIGN

TRAFFIC FLOW

* TO BE PAID FOR AS PERMANENT SIGNING

NOTES
USE THIS TRAFFIC CONTROL AFTER COMPLETION OF RAMP WORK PRIOR TO BEGINNING STAGE 2 WORK

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

DO NOT ENTER
R5-1
36" X 36"

R3-1
24" X 24"

R3-2
24" X 24"

WRONG WAY
R5-1A
42" X 30"

SEE PAVEMENT MARKING PLAN

W01-6
48" X 24"

ROAD CLOSED
0.1 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
60" X 30"

ROAD CLOSED
500 FT
W20-3

ROAD CLOSED
1/4 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
60" X 30"

ROAD CLOSED
1000 FT
W20-3

CTH K

IH 94 SB

IH 94 NB

1058NW 1058 1058NE 1056NW 1056 1056NE 1054SW 1054 1054SE 1052SW 1052 1052SE 1050SE 1050

5054 5056 3056 3054 3052

MATCHLINE 3051+50

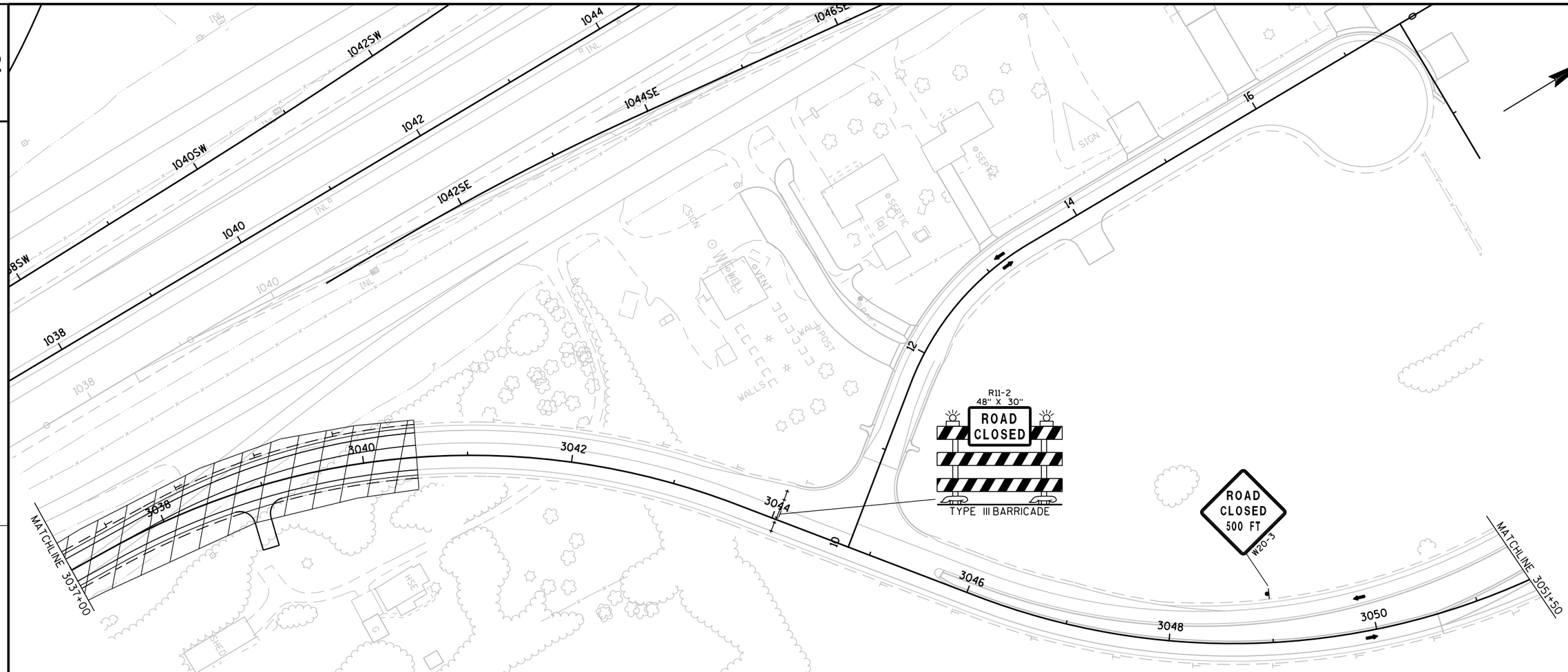
SHEET 10 OF 12

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1B	SCALE, FEET 0 50 100	REVISED SHEET 100	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\026106_s1b.dgn PLOT DATE : 01-FEB-2013 09:55 PLOT BY : ceven PLOT NAME : 026106_s1b PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2



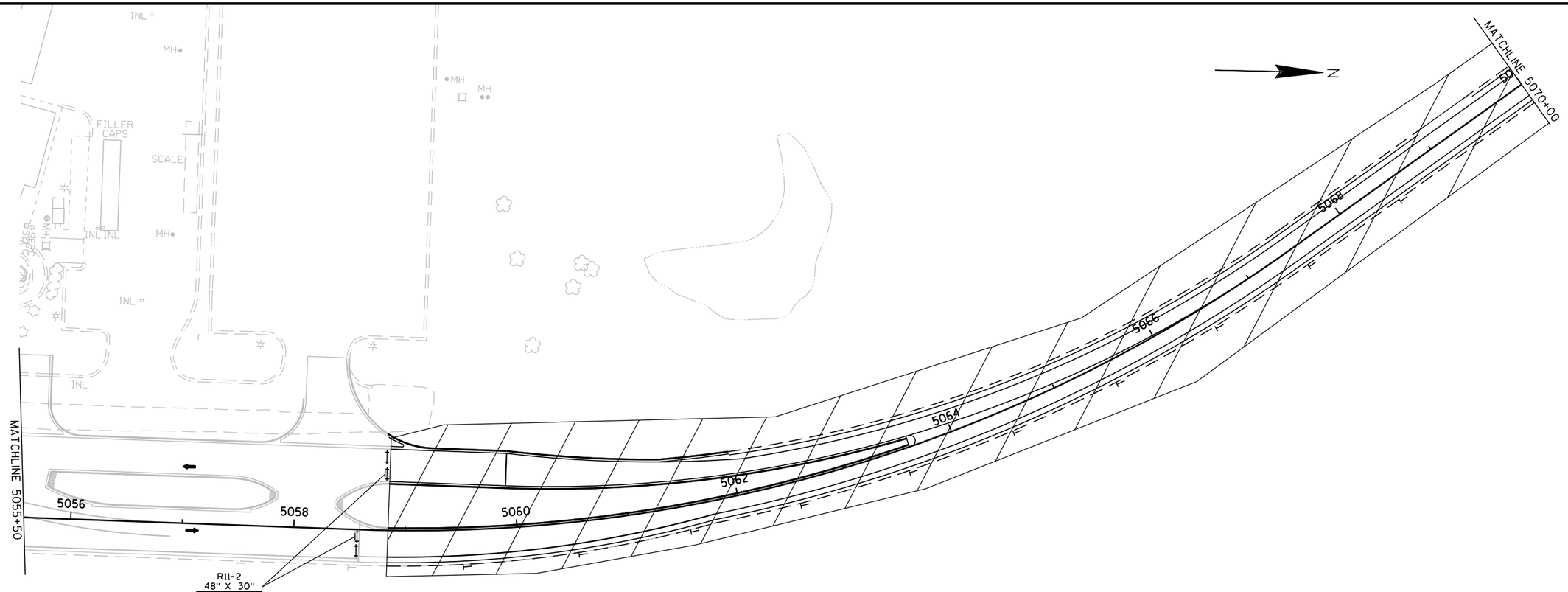
LEGEND

- WORK ZONE
- TRAFFIC CONTROL DRUM
- POST MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL BARRICADE TYPE III WITH WARNING LIGHTS TYPE A WITH/WITHOUT SIGN
- TRAFFIC FLOW

SHEET 11 OF 12

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1B	SCALE, FEET 0 50 100	SHEET 101	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\026107_s1b.dgn PLOT DATE : 22-JUN-2012 12:28 PLOT BY : rmakoutz PLOT NAME : 026107_s1b PLOT SCALE : 100:1





LEGEND

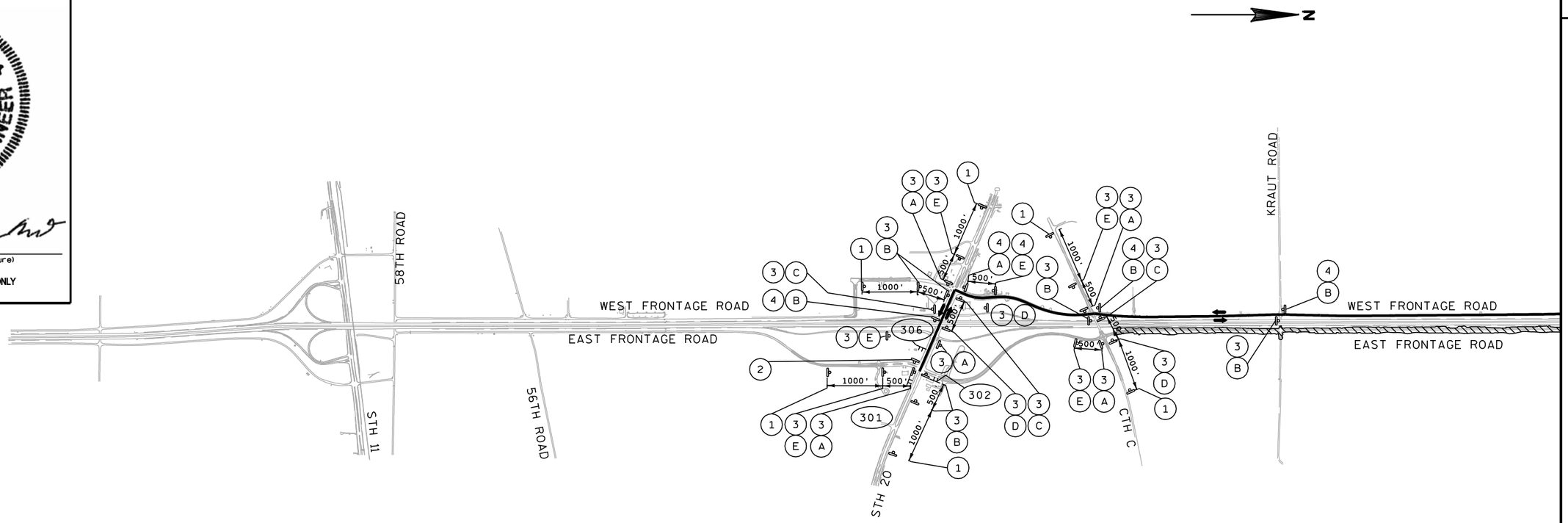
- WORK ZONE
- TRAFFIC CONTROL DRUM
- POST MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL BARRICADE TYPE III WITH WARNING LIGHTS TYPE A WITH/WITHOUT SIGN
- TRAFFIC FLOW

ORIGINAL PLANS PREPARED BY
DAAR
ENGINEERING, INC.
www.daarcorp.com
Milwaukee, WI 53202
414-225-9817

WISCONSIN
JOSHUA H. MOUNT
E-35706
MILWAUKEE, WI
PROFESSIONAL ENGINEER

08/16/2012
(Date) (Signature)

THIS STAMP APPLIES TO THIS SHEET ONLY



1 DETOUR AHEAD W20-2
EAST FRONTAGE ROAD M1-95A 24" X 30"

2 END DETOUR
EAST FRONTAGE ROAD M1-95A 24" X 30"
M4-8A 24" X 18"

3 DETOUR / NORTH / EAST FRONTAGE ROAD
M4-8 24" X 12"
M3-1 24" X 12"
M1-95A 24" X 30"

4 DETOUR / SOUTH / EAST FRONTAGE ROAD
M4-8 24" X 12"
M3-3 24" X 12"
M1-95A 24" X 30"

A M6-1 21" X 21"

B M6-1 21" X 21"

C M6-1 21" X 21"

D M5-1R 21" X 21"

E M5-1L 21" X 21"

NOTES

1. ALL SIGNS SHALL BE PLACED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
2. EXACT NUMBER, LOCATION AND SPACING OF SIGNS AND DEVICES MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
3. SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINSTRATION MANUAL OF STANDARD HIGHWAY SIGNS. UNLESS OTHERWISE PROVIDED IN THE PLAN.
4. ANY EXISTING TRAFFIC SIGNS THAT CONFLICT WITH THIS WORK SHALL BE COVERED AS DIRECTED BY THE ENGINEER.
5. DETOUR SIGNS SHALL BE COVERED OR REMOVED WHEN WEST AND EAST FRONTAGE ROAD IS OPEN TO TRAFFIC AND SIGN DETOUR IS NOT IN USE.

LEGEND

- PROPOSED SIGN MOUNTED ON POSTS
- (X) SIGN NUMBER
- X FIXED MESSAGE SIGN NUMBER
- DETOUR ROUTE
- WORK AREA

PROJECT NO: 1030-11-70	HWY: IH 94	COUNTY: RACINE	DETOUR PLAN - EAST FRONTAGE ROAD - STAGE 1	SHEET 103	E

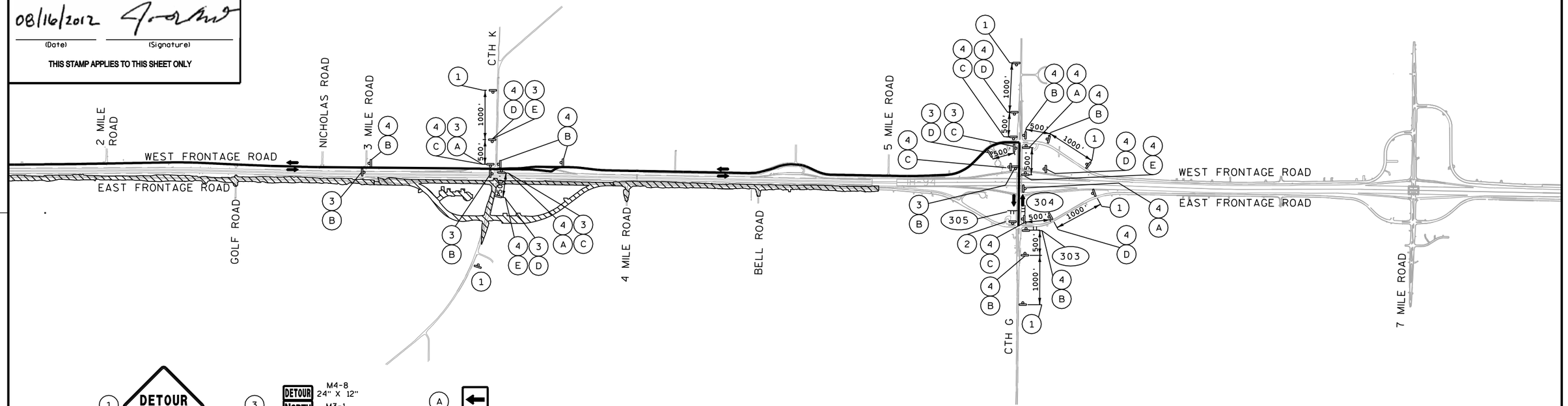
ORIGINAL PLANS PREPARED BY

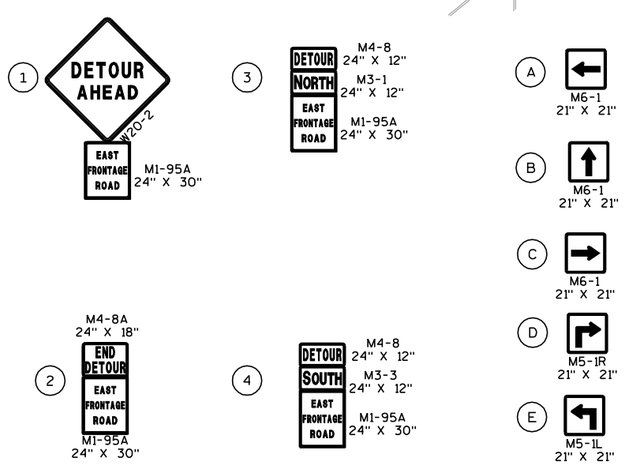
DAAR
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www.daarcorp.com
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414-225-9817

WISCONSIN
JOSHUA H.
MOUNT
E-35706
MILWAUKEE,
WI
PROFESSIONAL ENGINEER

08/16/2012
(Date) (Signature)

THIS STAMP APPLIES TO THIS SHEET ONLY





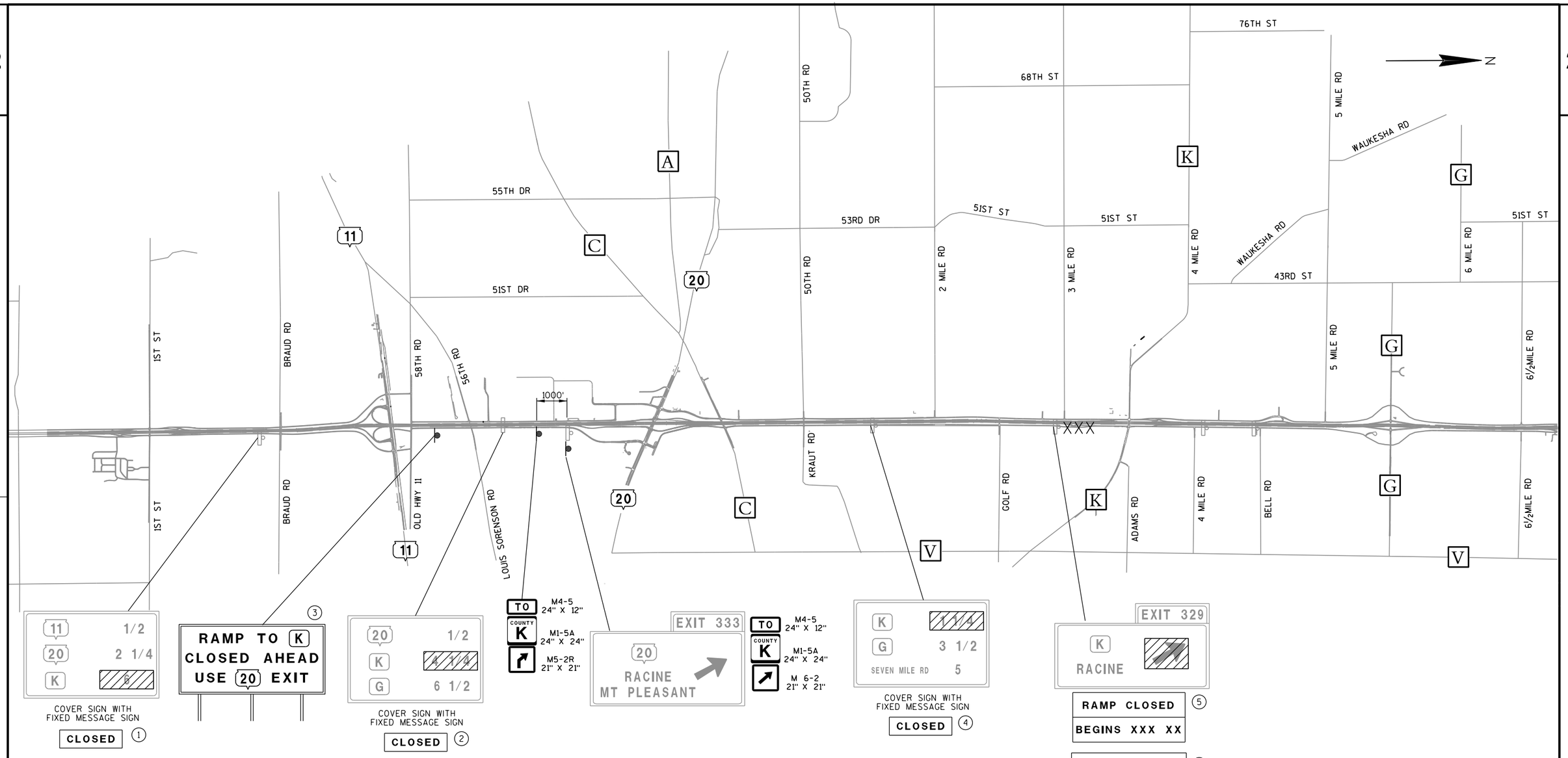
NOTES

1. ALL SIGNS SHALL BE PLACED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
2. EXACT NUMBER, LOCATION AND SPACING OF SIGNS AND DEVICES MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
3. SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINSTRATION MANUAL OF STANDARD HIGHWAY SIGNS. UNLESS OTHERWISE PROVIDED IN THE PLAN.
4. ANY EXISTING TRAFFIC SIGNS THAT CONFLICT WITH THIS WORK SHALL BE COVERED AS DIRECTED BY THE ENGINEER.
5. DETOUR SIGNS SHALL BE COVERED OR REMOVED WHEN WEST AND EAST FRONTAGE ROAD IS OPEN TO TRAFFIC AND SIGN DETOUR IS NOT IN USE.

LEGEND

- PROPOSED SIGN MOUNTED ON POSTS
- (X) SIGN NUMBER
- (X) FIXED MESSAGE SIGN NUMBER
- DETOUR ROUTE
- WORK AREA

PROJECT NO: 1030-11-70	HWY: IH 94	COUNTY: RACINE	DETOUR PLAN - EAST FRONTAGE ROAD - STAGE 1	SHEET 104	E



FREEWAY SIGNING

STAGE 2A

LEGEND

- EXISTING SIGN MOUNDED ON SUPPORT(S)
- PROPOSED SIGN MOUNTED ON SUPPORT(S)
- EAST — PROPOSED SIGN
- EAST — EXISTING SIGN
- (X) — SIGN NUMBER FIXED MESSAGE
- XXX — RAMP CLOSURE

NOTES

1. CONTRACTOR SHALL LOCATE GROUND MOUNTED FIXED MESSAGE SIGNS A MINIMUM OF 400'FROM ANY EXISTING TYPE "I" SIGNS.
2. ALL FIXED MESSAGE SIGNS SHALL BE BLACK NON-REFLECTIVE MESSAGE ON ORANGE REFLECTIVE BACKGROUND.
3. SEE FIXED MESSAGE SIGNS AND SPECIAL MESSAGE SIGNS LAYOUT SHEETS FOR MORE INFORMATION.
4. COVER DETOUR SIGNING WHEN NOT IN USE. INCIDENTAL TO WORK ZONE TRAFFIC CONTROL SIGNING.
5. SIGNS TO BE PLACED 10 DAYS PRIOR TO CONSTRUCTION.

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	IH 94 NB EXIT RAMP CLOSURE - STAGE 1B	SHEET 105	E

2

N

20

C

FAWN TRAIL

EVANS LANE

50TH ROAD

2 MILE ROAD

3 MILE ROAD

K

G

WEST FRONTAGE ROAD

94

41

EAST FRONTAGE ROAD

GOLF ROAD

V

4 MILE ROAD

KRAUT ROAD

H

1E

1D

1C

1B

1A

500'

500'

1

2

LEGEND

WORK ZONE ID 1030-11-70

DETOUR ROUTE

1 SIGN NUMBER

PROPOSED SIGN MOUNTED ON POST(S)

BARRICADE WITH SIGN

TO COUNTY K — M4-5 24" X 12" — M1-5A 24" X 24" — 1

END TO COUNTY K — M4-6 24" X 12" — M4-5 24" X 12" — M1-5A 24" X 24" — 2

A M6-1 21" X 21"

B M5-1L 21" X 21"

C M 6-2 21" X 21"

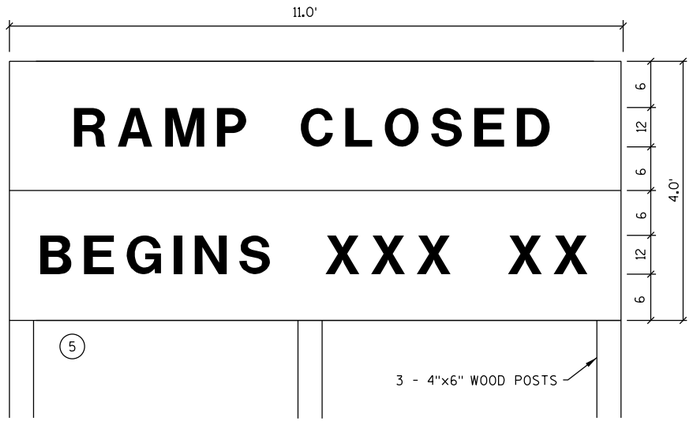
D M5-1R 21" X 21"

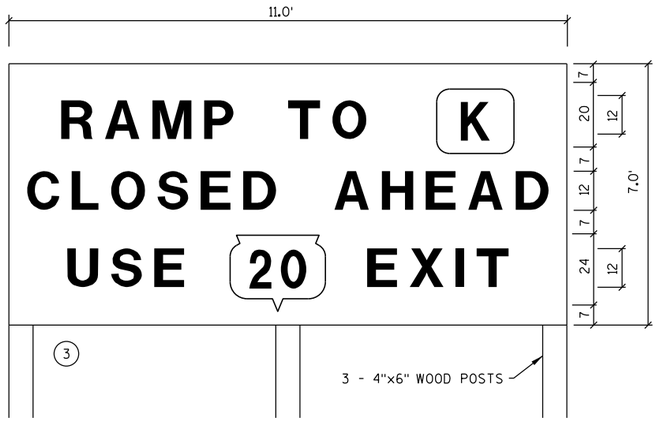
E M6-1 21" X 21"

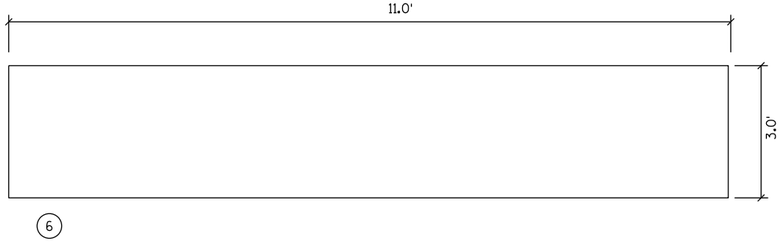
PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	DETOUR PLAN - NB IH 94 EXIT RAMP - STAGE 1B	SCALE: NTS	SHEET 106	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\027002_dt.dgn PLOT DATE : 14-AUG-2012 09:42 PLOT BY : rmakoutz PLOT NAME : 027002_dt PLOT SCALE : 800:1

WISDOT/CADDS SHEET 42







NOTES

1) ALL SIGNS TO HAVE STANDARD REFLECTIVE SHEETING - REFERENCE: "WISDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION." LATEST EDITION.

2) AFTER SIGNS HAVE BEEN LOCATED IN THE FIELD, BUT BEFORE INSTALLATION, THE SIGNING AND MARKING SUPERVISOR SHALL VERIFY EACH SIGN LOCATION.

3) ALL SIGNS TO BE MOUNTED ON WOODEN POST SUPPORTS (4"X6"). THE NUMBER OF POSTS REQUIRED FOR EACH LAYOUT IS SHOWN. STEEL POSTS (2"X2") MAY BE USED FOR SIGNS ON SURFACE STREETS. SIGNS WHERE NO POSTS ARE SHOWN TO BE MOUNTED ON EXISTING SIGNS.

4) POSTS SHALL MEET THE BREAKAWAY REQUIREMENTS OF SECTON 643.2.9.1 OF THE STANDARD SPECIFICATIONS AND SIGN PLATE A4-11.

5) SIGNS ON THIS SHEET TO BE PAID UNDER THE ITEM "TRAFFIC CONTROL SIGNS FIXED MESSAGE".

6) SIGNS SHALL BE BLACK NON-REFLECTIVE MESSAGE ON ORANGE REFLECTIVE BACKGROUND UNLESS OTHERWISE NOTED.

7) ALL SIGNS SHALL HAVE CAPITAL LETTERS AND NUMERALS:
12" CAPS SHALL BE SERIES "D"
6" CAPS SHALL BE SERIES "C"

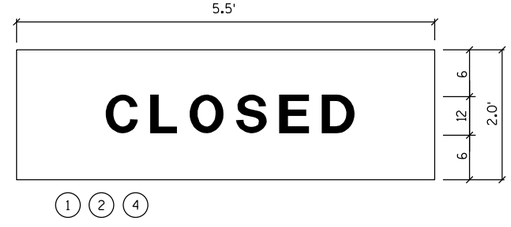
8) BEGIN XXX XX SIGNS SHALL BE SEPARATE PANELS, BUT SHALL BE CONSIDERED AS PART OF THE SIGN AND SHOULD BE REMOVED OR COVERED AFTER THEIR EFFECTIVE DATE. THE MONTH AND DAY SHALL BE AS DIRECTED BY THE ENGINEER IN THE FIELD.

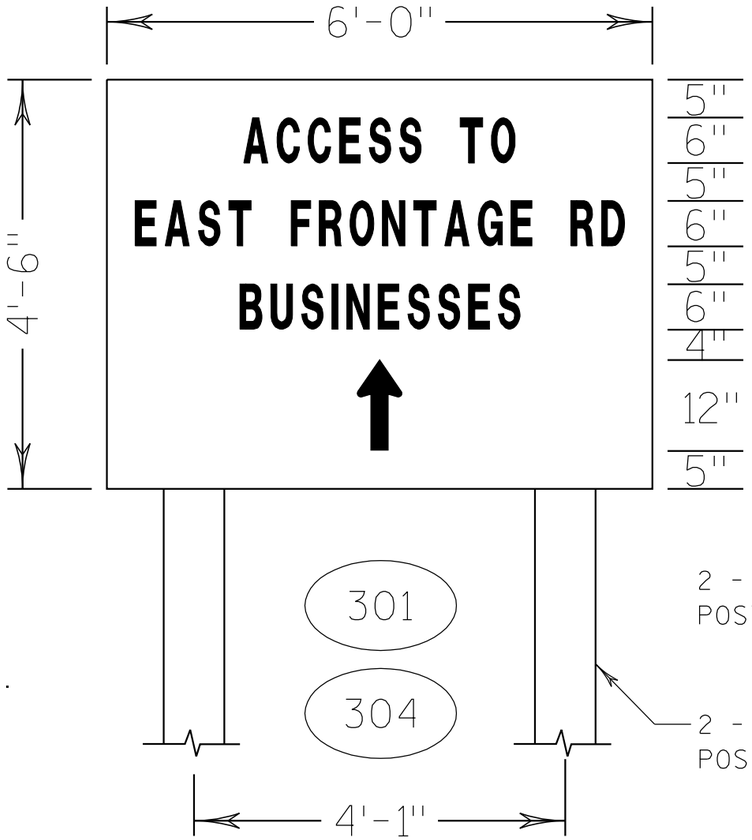
9) CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER FOR REVIEW PRIOR TO MANUFACTURING.

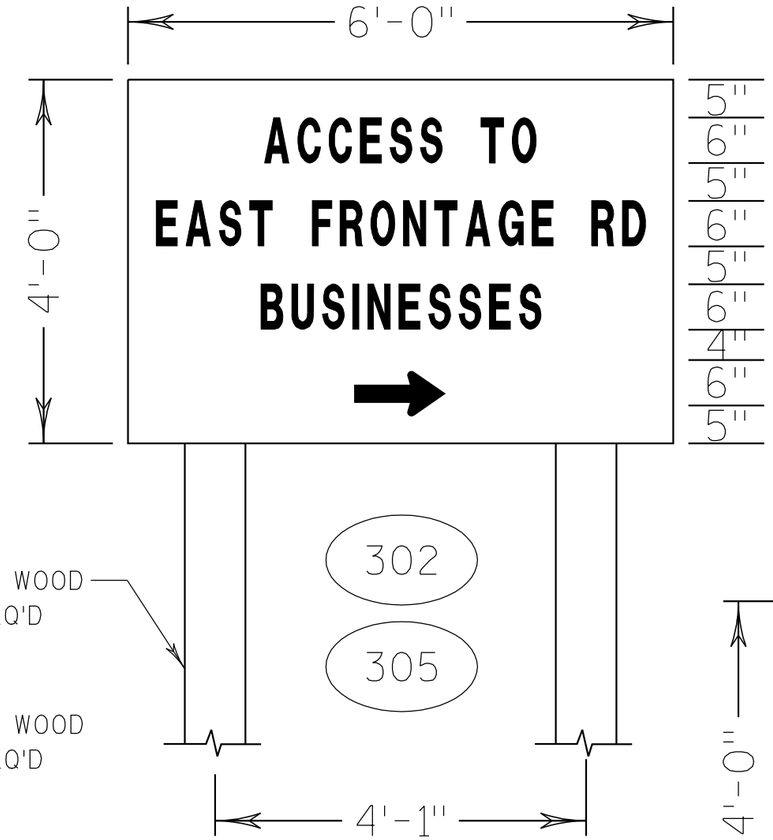
10) SIGN BASE MATERIAL SHALL BE ACCORDING TO SECTION 637.2.1.2.

11) BEGIN XXX XX SIGNS TO BE IN PLACE 14 DAYS PRIOR TO CONSTRUCTION.

12) DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.







GENERAL NOTES

-ALL SIGNS TO HAVE FLUORESCENT REFLECTIVE SHEETING - REFERENCE: WISDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION.

-AFTER SIGNS HAVE BEEN LOCATED IN THE FIELD, BUT BEFORE INSTALLATION, THE PROJECT ENGINEER SHALL VERIFY EACH SIGN LOCATION.

-ALL SIGNS TO BE MOUNTED ON WOODEN POST SUPPORTS (4"X6"). THE NUMBER OF POSTS REQUIRED FOR EACH LAYOUT IS SHOWN.

-SIGNS ON THIS SHEET TO BE PAID UNDER THE ITEM "FIXED MESSAGE SIGNS".

-SIGNS SHALL BE BLACK NON-REFLECTIVE MESSAGE ON ORANGE FLUORESCENT REFLECTIVE BACKGROUND PER SPEC. 637 & 643.

-ALL SIGNS SHALL HAVE CAPITAL LETTERS AND NUMERALS: 6" CAPS SHALL BE SERIES "C".

-CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER FOR REVIEW PRIOR TO MANUFACTURING. CONTRACTOR TO VERIFY DIMENSIONS.

-SIGN BASE MATERIAL SHALL BE ACCORDING TO SECTION 637 & 643.

(XXX) SIGN NUMBER NOTED ON TRAFFIC CONTROL PLAN

ORIGINAL PLANS PREPARED BY
DAAR
ENGINEERING, INC.
www.daarcorp.com
Milwaukee, WI 53202
414-225-9817

WISCONSIN
JOSHUA H. MOUNT
E-35706
MILWAUKEE, WI
PROFESSIONAL ENGINEER

08/16/2012
(Date) (Signature)

THIS STAMP APPLIES TO THIS SHEET ONLY

PROJECT NO: 1030-11-70	HWY: IH 94	COUNTY: RACINE	DETOUR PLAN: FIXED MESSAGE SIGNS - STAGE 1	SHEET 108	E

2

WEST FRONTAGE ROAD

RAMP SW

IH 94 SB

IH 94 NB

1030 1035 1040 1045 1055

MATCH EXISTING

+00 46' LT

REMOVE FENCE STA 3031+00 - 3032+06

REMOVE FENCE STA 1035+44 - 1054+97

+65 201' LT

1045SE

RAMP SE

1050SE

+13 MICHEL COURT 204' LT

+13 MICHEL COURT 194' LT

+76 182' LT

WOVEN WIRE FENCE 4-FOOT

+27 22' RT

+97 69' RT

1055SE

+65 45' RT

+69 77' RT

+69 75' RT

+90 63' RT

MATCH EXISTING

MATCHLINE 1056+00

3030 3035 3040

EAST FRONTAGE ROAD

BEGIN PROJECT ID 1030-11-70
STA 3030+00.00 R/L EAST FRONTAGE RD

+00 14' LT

+06 14' LT

FENCE WOVEN WIRE 4-FOOT

MICHEL COURT

5045

CTH K

MATCH EXISTING AT CORNER OF CHAIN LINK FENCE

N

2

RAMP NW

WEST FRONTAGE ROAD

5076+00 47.5'LT

5077+00 47.5'LT

5077+89 46.9'LT

1060 1065 1070 1075 1080 1085

IH 94 SB

IH 94 NB

REMOVE FENCE STA 1066+49 - 5079+50

MATCHLINE 1056+00

+17 107' LT

REMOVE FENCE STA 1056+17 - 1065+59

+59 44' LT

RAMP NE

1070NE

1065NE

1060NE

5075NE

5075+00 47.5'LT

+22 38' RT

+22 36' RT

+47 67' RT

+22 36' RT

+50 46' LT

MATCH EXISITING

5080

5073+81.5 48.8'LT

+45 130' RT

+49 12' LT

+91 51' LT

+95 89' RT

+53 76' RT

+94 105' RT

+28 69' RT

FENCE WOVEN WIRE 4-FOOT

+50 33' LT

WOVEN WIRE FENCE 4-FOOT

END PROJECT ID 1030-11-70
STA 5080+00.00 R/L EAST FRONTAGE RD

POINTS LAYED OUT USING EAST FR RL.

+89 60' RT

+90 75' RT

+15 97' RT

+11 95' RT

5070

5075

EAST FRONTAGE ROAD

FILLER CAPS

SCALE

PROJECT NO: 1030-11-70	HWY: IH 94 / CTH K	COUNTY: RACINE	FENCING PLAN	SCALE, FEET 0 100 200	SHEET 109	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\027101_fn.dgn PLOT DATE : 11-SEP-2010 11:46 PLOT BY : cfranzen PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

2

CAST IRON MONU.
WITH BRASS CAP
STA 1029+44.92
2564.70' LT
N=202,239.33
E=591,473.71

T 4 N
R 21 E
25
36

N

N 89°13'30" W

2660.61'

BEGIN PROJECT
I.D. 1030-11-72
STA 1024+00
Y 201667.83
X 594032.60

1010

N 01°32'42" E

1015

1020

IH 94

1025

N 00°35'40" E

1030

1035

PI STA 1039+10.56
Y 203177.71
X 594103.25

1040+00

MATCHLINE

POB RAMP SE
STA 1037+50.00
Y 203017.18
X 594101.54

R/L IH 94

N 00°36'42" E

R/L RAMP SE

N 05°09'04" E

TOWNSHIP LINE

N 00°52'57" E

2640.62'

N 00°43'07" E

R/L EAST FRONTAGE RD.

2635.24'

SEF SB PGL

CURVE 74

3030

N 02°29'01" E

3035

PC SEF SB 74

EAST FRONTAGE ROAD

CURVE 70

MATCHLINE
STA 3039+50

BEGIN PROJECT I.D. 1030-11-70

END PROJECT I.D. 1030-11-77
STA 3031+00.00
Y 202366.00
X 594206.56

PC 70

BEGIN SEF SB PGL
STA 3037+43.91
Y 203009.43
X 594234.46

POB STA 3030+00.00
Y 202266.10
X 594202.23

CAST IRON MONU.
WITH BRASS CAP
STA 1029+36.54
95.89' RT
N=202,203.35
E=594,134.08

T 4 N
R 21 E
T 3 N
R 22 E
36
25
31
30

SECTION LINE

N 88°58'03" W

2450.32'

CAST IRON MONU.
WITH BRASS CAP
STA 1029+17.80
2546.15' RT
N=202,159.19
E=596,584.00

T 4 N
R 22 E
31
30

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	ALIGNMENT PLAN	SCALE, FEET 0 100 200	SHEET 110	E

2

2

MATCHLINE 1040+00

IH 94

STA 1055+54.65 IH 94=
STA 42+90.46 CTH K
Y 204822.31
X 594065.35

STA 1055+72.48 IH 94

STA 1055+90.97 IH 94=
STA 42+90.18 CTH K WB PGL
Y 204858.63
X 594065.72

R/L IH 94

MATCHLINE STA 1069+50

CTH K WB PGL

2650.55'

N 05°09'04" E

N 00°35'40" E

N 00°43'07" E

2635.24'

N 00°42'23" E

2656.24'

TOWNSHIP LINE

CURVE 14

PC SE40
CURVE SE40
PI SE40
PT SE40
PC RAMP SE 1
PI RAMP SE 1
CURVE RAMP SE 1
PCC RAMP SE 1/2
CURVE RAMP SE 2
PI RAMP SE 2
PT RAMP SE 2
R/L RAMP SE
RAMP SE
POE RAMP SE
STA 1054+10.36
Y 204672.26
X 594220.09

N 00°54'25" E

MATCHLINE STA 3039+50

PI 74
PI 70
PCC 74/75
CURVE 70
CURVE 75
PI 75
PT 75
PT 70
SEF SB PGL
R/L EAST FRONTAGE ROAD
N 52°18'04" E

STA 3044+78.26 R/L EAST FRONTAGE ROAD =
STA 10+00.00 R/L MICHEL COURT

15 MICHEL COURT

PI 93
CURVE 93
PT 93
PC 93
N 37°41'56" W
N 00°43'07" E
R/L MICHEL COURT

POE MICHEL COURT
STA 18+50.00
Y 204414.95
X 594449.84

POE STA 0+00.00=
STA 17+60.26
Y 204325.21
X 594448.71

R/L CTH K

45 1/4 LINE

MON EAST 25-04-21
CONCRETE MONUMENT
WITH ALUMINUM CAP
STA 1055+71.78
101.61' RT
N=204,838.38
E=594,167.13

POB MICEL COURT
STA 10+00.00=
Y 203612.36
X 594601.52

PC 71
PC 76
CURVE 71
CURVE 76
EAST FRONTAGE ROAD

DRAINAGE SWALE

S 89°16'53" E

STA 5051+66.91,
44.0' LT SB PGL=
STA 51+82.12 CTH K
Y 204628.46
X 594935.19

N 89°15'38" W

S 75°48'17" E

2454.79'

CTH K WB PGL

EQUATION

STA 3056+18.38 BK=
STA 5051+56.45 AH=
R/L TEMPORARY EFR

POB STA 4+36.17
Y 204319.74
X 594884.85

PC TEFR 1
PRC TEFR 1/2
PI TEFR 2
PT EFR 2
PT 76
PI 76
PI 71
CURVE TEFR 1
CURVE TEFR 2
PT 71
PI TEFR 1
N 00°49'23" E

POB TEMP EFR
STA 3050+59.62
Y 204061.41
X 594950.55

STA 3056+18.38 BK
STA 5051+56.45 AH
EAST FRONTAGE ROAD=
STA 52.27.40 CTH K
Y 204617.37
X 594979.03

PT TEFR 3
PI TEFR 3
CURVE TEFR 3
PRC TEFR 3/4
R/L TEMPORARY EFR
CURVE EFR 4
PI TEFR 4
PT TEFR 4
POE TEMP EFR
STA 5056+93.39
Y 205150.45
X 594986.69

R/L EAST FRONTAGE ROAD
NEF PGL
PC 77
PC 72
CURVE 72
CURVE 77
PI 77
PI 72

MATCHLINE STA 5067+00

REPLACED WITH
REVISED SHEET 111
2-1-2013

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	ALIGNMENT PLAN	SCALE, FEET 0 100 200	SHEET 111	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\027202_ad.dgn PLOT DATE : 28-AUG-2012 16:32 PLOT BY : cfranzen PLOT NAME : 027202_ad PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

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MATCHLINE 1040+00

40 N 05°09'04" E

1045 IH 94 1050

N 00°35'40" E 1055

STA 1055+54.65 IH 94=
STA 42+90.46 CTH K
Y 204822.31
X 594065.35

STA 1055+72.48 IH 94

1060 R/L IH 94

CURVE 14 1065

MATCHLINE STA 1069+50

POE RAMP SE
STA 1054+10.36
Y 204672.26
X 594220.09

STA 1055+90.97 IH 94=
STA 42+90.18 CTH K WB PGL
Y 204858.63
X 594065.72

TOWNSHIP LINE

N 00°42'23" E 2656.24'

2650.55'

CTH K WB PGL

PC SE40
CURVE SE40
PI SE40
PC RAMP SE 1
PT SE40
PI RAMP SE 1
1045SE
1045
CURVE RAMP SE 1
PCC RAMP SE 1/2
N 00°43'07" E
RAMP SE 1050SE
CURVE RAMP SE 2
PI RAMP SE 2
1050
R/L RAMP SE
2635.24'
PT RAMP SE 2
N 00°54'25" E

MATCHLINE STA 3039+50
PI 74
PI 70
3040
PCC 74/75
CURVE 70
CURVE 75
PI 75
SEF SB PGL

STA 3044+78.26 R/L EAST FRONTAGE ROAD =
STA 10+00.00 R/L MICHEL COURT

15 MICHEL COURT

POE MICHEL COURT
STA 18+50.00
Y 204414.95
X 594449.84

PI 93
CURVE 93
PT 93
N 00°43'07" E
R/L MICHEL COURT

POE STA 0+00.00=
STA 17+60.26
Y 204325.21
X 594448.71

R/L EAST FRONTAGE ROAD
PT 75
PT 70
N 52°18'04" E
N 37°41'56" W
PC 93
1045

R/L CTH K

S 89°16'53" E

DRAINAGE SWALE

STA 5051+66.91,
44.0' LT SB PGL=
STA 51+82.12 CTH K
Y 204628.46
X 594935.19

EQUATION

STA 3056+18.38 BK=
STA 5051+56.45 AH=
R/L TEMPORARY EFR

POB MICEL COURT
STA 10+00.00=
Y 203612.36
X 594601.52

PC 71
PC 76
CURVE 71
CURVE 76
EAST FRONTAGE ROAD
3050

POB STA 4+36.17
Y 204319.74
X 594884.85

PC TEFR 1
PRC TEFR 1/2
PI TEFR 2
PT EFR 2
3055
PT 76
PI 76
PI 71
CURVE TEFR 1
CURVE TEFR 2
PT 71
N 00°49'23" E
PI TEFR 1

POB TEMP EFR
STA 3050+59.62
Y 204061.41
X 594950.55

STA 3056+18.38 BK
STA 5051+56.45 AH
EAST FRONTAGE ROAD=
STA 52.27.40 CTH K
Y 204617.37
X 594979.03

S 75°48'17" E

N 89°15'38" W

2434.79'

MON. EAST 25-04-21
CONCRETE MONUMENT
WITH ALUMINUM CAP
STA 1055+71.78
101.61' RT
N=204,838.38
E=594,167.13

T 4 N R 22 E
25 30

45 1/4 LINE

CTH K WB PGL

R/L EAST FRONTAGE ROAD

NEF PGL

PC 77
5060
CURVE 77
CURVE 72
PC 72
5065
PI 77
PI 72
MATCHLINE STA 5067+00
EAST FRONTAGE ROAD

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	ALIGNMENT PLAN	SCALE, FEET 0 100 200	REVISED SHEET 111	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\027202_ad.dgn PLOT DATE : 01-FEB-2013 09:55 PLOT BY : ceven PLOT NAME : 027202_ad PLOT SCALE : 200:1

2

CAST IRON MONU.
WITH BRASS CAP
1082+13.86
2548.25' LT
N=207,529.73
E=591,560.10

T 4 N
R 21 E
25 | 24

N

N 89°14'02" W

2645.42'

SECTION LINE

END PROJECT
I.D. 1030-11-72
STA 1093+00.00
Y 208567.10
X 594128.59

1070 1075 1080 1085 1090 1095

R/L IH 94

IH 94

N 01°05'31" E

MATCHLINE STA 1069+50

N 00°42'23" E 2656.24'

TOWNSHIP LINE

N 00°53'45" E 2650.20'

PI 73

5075

EAST FRONTAGE ROAD

5080 N 00°49'23" E

PT 73

CURVE 73

PC 73

R/L EAST FRONTAGE ROAD

CAST IRON MONU.
WITH BRASS CAP
STA 1082+28.90
97.12' RT
N=207,494.35
E=594,205.28

T 4 N
R 21 E
R 22 E
25 | 30 | 24 | 19

CAST IRON MONU.
WITH BRASS CAP
STA 1108+79.09
88.05' RT
N=210,144.23
E=594,246.71

T 4 N
R 21 E
R 22 E
24 | 19

POE STA 5082+28.39
Y 207493.63
X 594251.27

5070 N 36°46'59" W

END PROJECT I.D. 1030-11-70

BEGIN PROJECT I.D. 1030-25-77
STA 5079+50.00
Y 207215.27
X 594247.27

N 89°16'45" W

2414.15'

CURVE 72

MATCHLINE STA 5067+00

PT 72/77

END NEF PGL
STA 5067+44.91, 0' LT
Y 206147.45
X 594720.49

CAST IRON MONU.
WITH BRASS CAP
STA 1082+32.76
2368.15' RT
N=207,463.98
E=596,619.24

T 4 N
R 22 E
30 | 19

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	ALIGNMENT PLAN	SCALE, FEET 0 100 200	SHEET 112	E

2

EAST FRONTAGE ROAD R/L (SOUTH OF CTH K)

CURVE NO.	PI (STA)	PI (Y,X)		DELTA	DEGREE	RADIUS	TANGENT	LENGTH	EXTERNAL	PC (STA)	PC (Y,X)		PT (STA)	PC (Y,X)	
70	3040+74.67	203339.75	594248.79	49°49'04"	8°02'50"	712.00	330.63	619.07	73.02	3037+44.03	203009.43	594234.47	3043+63.10	203541.94	594510.40
71	3049+42.29	203896.12	594968.67	51°28'42"	8°19'40"	688.00	331.69	618.14	75.78	3046+10.60	203693.28	594706.23	3052+28.74	204227.77	594973.44

EAST FRONTAGE ROAD R/L (NORTH OF CTH K)

CURVE NO.	PI (STA)	PI (Y,X)		DELTA	DEGREE	RADIUS	TANGENT	LENGTH	EXTERNAL	PC (STA)	PC (Y,X)		PT (STA)	PC (Y,X)	
72	5063+18.50	205779.30	594995.73	37°36'22"	4°14'39"	1350.00	459.66	886.07	76.11	5058+58.84	205319.69	594989.12	5067+44.91	206147.45	594720.49
73	5075+45.44	206788.59	594241.14	37°36'22"	6°21'58"	900.00	306.44	590.72	50.74	5072+39.00	206543.16	594424.63	5078+29.72	207095.00	594245.54

EAST FRONTAGE ROAD PGL (SOUTH OF CTH K)

CURVE NO.	PI (STA)	PI (Y,X)		DELTA	DEGREE	RADIUS	TANGENT	LENGTH	EXTERNAL	PC (STA)	PC (Y,X)		PT (STA)	PT (Y,X)	
74	3039+51.39, 31.30' LT	203222.66	594243.71	29°46'17"	9°03'01"	633.08	168.28	328.95	21.98	3037+89.12, 1.43' LT	203054.53	594236.42	3041+13.99, 12.00' LT	203364.97	594333.52
75	3042+38.55, 23.22' LT	203473.18	594401.81	20°02'47"	7°54'50"	724.00	127.96	253.31	11.22	3041+13.99, 12.00' LT	203364.97	594333.52	3043+63.10, 12.00' LT	203551.43	594503.06
76	3048+85.10, 45.62' RT	203877.06	594924.40	51°28'42"	9°29'57"	603.16	290.79	541.92	66.44	3046+04.81, 12.00' LT	203699.24	594694.31	3051+64.20, 41.16' LT	204167.82	594928.57

EAST FRONTAGE ROAD PGL (NORTH OF CTH K)

CURVE NO.	PI (STA)	PI (Y,X)		DELTA	DEGREE	RADIUS	TANGENT	LENGTH	EXTERNAL	PC (STA)	PC (Y,X)		PT (STA)	PT (Y,X)	
77	5063+67.51, 54.53' RT	205837.05	594952.55	37°36'22"	5°02'01"	1138.23	387.55	747.08	64.17	5059+91.99, 37.62' LT	205449.54	594946.98	5067+44.91, 0.00'	206147.45	594720.49

2

CTH K WB R/L

CURVE NO.	PI(STA)	PI(Y,X)		DELTA	DEGREE	RADIUS	TANGENT	LENGTH	EXTERNAL	PC (STA)	PC (Y,X)		PT (STA)	PT (Y,X)	
24	42+51.51	204894.78	594029.14	13°12'10"	1°14'26"	4618.00	534.44	1064.14	30.82	37+17.07	204904.04	593494.78	47+81.22	204763.72	594547.26
25	68+41.45	204256.46	596552.63	36°49'20"	1°16'51"	4473.00	1488.93	2874.66	241.30	53+52.52	204621.59	595109.16	82+27.18	203099.06	597489.29

CTH K EB R/L

CURVE NO.	PI(STA)	PI(Y,X)		DELTA	DEGREE	RADIUS	TANGENT	LENGTH	EXTERNAL	PC (STA)	PC (Y,X)		PT (STA)	PT (Y,X)	
23	42+47.35	204858.86	594024.35	13°12'10"	1°15'02"	4582.00	530.27	1055.85	30.58	37+17.08	204868.04	593494.16	47+72.92	204728.82	594538.43
26	56+76.05	204507.35	595413.98	8°20'27"	1°17'29"	4437.00	323.53	645.91	11.78	53+52.52	204586.69	595100.33	59+98.43	204383.35	595712.81

RAMP SE R/L

CURVE NO.	PI(STA)	PI(Y,X)		DELTA	DEGREE	RADIUS	TANGENT	LENGTH	EXTERNAL	PC (STA)	PC (Y,X)		PT (STA)	PT (Y,X)	
TEMP SE 1	1044+83.67	203748.51	594154.71	1°49'50"	0°42'58"	8000.00	127.81	255.59	1.02	1043+55.86	203621.22	594143.23	1046+11.46	203875.37	594170.25
TEMP SE 2	1049+63.18	204224.49	594213.00	6°04'29"	0°51'52"	6628.57	351.72	702.78	9.32	1046+11.46	203875.37	594170.25	1053+14.24	204576.16	594218.57

TEMPORARY EFR R/L

CURVE NO.	PI(STA)	PI(Y,X)		DELTA	DEGREE	RADIUS	TANGENT	LENGTH	EXTERNAL	PC (STA)	PC (Y,X)		PT (STA)	PT (Y,X)	
EFR 1	3051+83.26	204183.55	594969.74	20°02'17"	8°11'14"	699.82	123.64	244.75	10.84	3050+59.62	204061.41	594950.55	3053+04.37	204304.87	594945.92
EFR 2	3053+78.77	204377.88	594931.59	11°55'52"	8°02'50"	712.00	74.40	148.26	3.88	3053+04.37	204304.87	594945.92	3054+52.63	204452.27	594932.66
EFR 3	5054+39.10	204900.63	594939.10	14°52'50"	8°39'18"	662.00	86.45	171.93	5.62	5053+52.65	204814.18	594937.86	5055+24.58	204983.85	594962.50
EFR 4	5056+09.47	205065.57	594985.47	14°52'50"	8°48'53"	650.00	84.88	168.81	5.52	5055+24.58	204983.85	594962.50	5056+93.39	205150.45	594986.69

FUHRMAN DRIVE R/L

CURVE NO.	PI(STA)	PI(Y,X)		DELTA	DEGREE	RADIUS	TANGENT	LENGTH	EXTERNAL	PC (STA)	PC (Y,X)		PT (STA)	PT (Y,X)	
92	11+82.02	205686.73	593517.01	40°43'58"	27°56'57"	205.00	76.10	145.74	13.67	11+05.92	205745.12	593468.22	12+51.66	205610.63	593515.88

MICHEL COURT R/L

CURVE NO.	PI(STA)	PI(Y,X)		DELTA	DEGREE	RADIUS	TANGENT	LENGTH	EXTERNAL	PC (STA)	PC (Y,X)		PT (STA)	PT (Y,X)	
93	12+60.28	203818.31	594442.35	38°25'02"	21°37'16"	265.00	92.33	177.68	15.62	11+67.96	203745.25	594498.81	13+45.64	203910.63	594443.51

REPLACED WITH
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CTH K WB R/L

CURVE NO.	PI(STA)	PI(Y,X)		DELTA	DEGREE	RADIUS	TANGENT	LENGTH	EXTERNAL	PC (STA)	PC (Y,X)		PT (STA)	PT (Y,X)	
24	42+51.51	204894.78	594029.14	13°12'10"	1°14'26"	4618.00	534.44	1064.14	30.82	37+17.07	204904.04	593494.78	47+81.22	204763.72	594547.26
25	68+41.45	204256.46	596552.63	36°49'20"	1°16'51"	4473.00	1488.93	2874.66	241.30	53+52.52	204621.59	595109.16	82+27.18	203099.06	597489.29

CTH K EB R/L

CURVE NO.	PI(STA)	PI(Y,X)		DELTA	DEGREE	RADIUS	TANGENT	LENGTH	EXTERNAL	PC (STA)	PC (Y,X)		PT (STA)	PT (Y,X)	
23	42+47.35	204858.86	594024.35	13°12'10"	1°15'02"	4582.00	530.27	1055.85	30.58	37+17.08	204868.04	593494.16	47+72.92	204728.82	594538.43
26	56+76.05	204507.35	595413.98	8°20'27"	1°17'29"	4437.00	323.53	645.91	11.78	53+52.52	204586.69	595100.33	59+98.43	204383.35	595712.81

RAMP SE R/L

CURVE NO.	PI(STA)	PI(Y,X)		DELTA	DEGREE	RADIUS	TANGENT	LENGTH	EXTERNAL	PC (STA)	PC (Y,X)		PT (STA)	PT (Y,X)	
TEMP SE 1	1044+83.67	203748.51	594154.71	1°49'50"	0°42'58"	8000.00	127.81	255.59	1.02	1043+55.86	203621.22	594143.23	1046+11.46	203875.37	594170.25
TEMP SE 2	1049+63.18	204224.49	594213.00	6°04'29"	0°51'52"	6628.57	351.72	702.78	9.32	1046+11.46	203875.37	594170.25	1053+14.24	204576.16	594218.57

TEMPORARY EFR R/L

CURVE NO.	PI(STA)	PI(Y,X)		DELTA	DEGREE	RADIUS	TANGENT	LENGTH	EXTERNAL	PC (STA)	PC (Y,X)		PT (STA)	PT (Y,X)	
EFR 1	3051+83.26	204183.55	594969.74	20°02'17"	8°11'14"	699.82	123.64	244.75	10.84	3050+59.62	204061.41	594950.55	3053+04.37	204304.87	594945.92
EFR 2	3053+78.77	204377.88	594931.59	11°55'52"	8°02'50"	712.00	74.40	148.26	3.88	3053+04.37	204304.87	594945.92	3054+52.63	204452.27	594932.66

Removed Alignment Data

FUHRMAN DRIVE R/L

CURVE NO.	PI(STA)	PI(Y,X)		DELTA	DEGREE	RADIUS	TANGENT	LENGTH	EXTERNAL	PC (STA)	PC (Y,X)		PT (STA)	PT (Y,X)	
92	11+82.02	205686.73	593517.01	40°43'58"	27°56'57"	205.00	76.10	145.74	13.67	11+05.92	205745.12	593468.22	12+51.66	205610.63	593515.88

MICHEL COURT R/L

CURVE NO.	PI(STA)	PI(Y,X)		DELTA	DEGREE	RADIUS	TANGENT	LENGTH	EXTERNAL	PC (STA)	PC (Y,X)		PT (STA)	PT (Y,X)	
93	12+60.28	203818.31	594442.35	38°25'02"	21°37'16"	265.00	92.33	177.68	15.62	11+67.96	203745.25	594498.81	13+45.64	203910.63	594443.51

EAST FRONTAGE ROAD - SOUTH OF CTH K NB PGL

SUPERELEVATION DESCRIPTION	STATION	SLOPE LT	SLOPE RT
END NORMAL CROWN	3036+20	-2.00%	-2.00%
REVERSE CROWN	3037+05	2.00%	-2.00%
BEGIN FULL SUPER	3037+80	5.70%	-5.70%
END FULL SUPER	3043+25	5.70%	-5.70%
REVERSE CROWN	3044+00	2.00%	-2.00%
BEGIN NORMAL CROWN	3044+85	-2.00%	-2.00%
END NORMAL CROWN	3045+15	-2.00%	-2.00%
REVERSE CROWN	3045+99	--	2.00%
BEGIN FULL SUPER	3046+38	--	3.90%
END FULL SUPER	3052+02	--	3.90%
REVERSE CROWN	3052+41	--	2.00%
BEGIN NORMAL CROWN	3053+25	-2.00%	-2.00%
END NORMAL CROWN	3055+28	-2.00%	-2.00%
PAVEMENT WARPING	3055+40	-2.00%	--
PAVEMENT WARPING	3055+75	0.28%	-0.28%
MATCH CTH K	3055+92	0.25%	-0.25%

EAST FRONTAGE ROAD - SOUTH OF CTH K SB PGL

SUPERELEVATION DESCRIPTION	STATION	SLOPE LT	SLOPE RT
REVERSE CROWN	3046+10	-2.00%	--
BEGIN FULL SUPER	3046+60	-4.00%	--
END FULL SUPER	3051+35	-4.00%	--
REVERSE CROWN	3051+85	-2.00%	--

EAST FRONTAGE ROAD - NORTH OF CTH K NB PGL

SUPERELEVATION DESCRIPTION	STATION	SLOPE LT	SLOPE RT
MATCH CTH K	5052+34	0.71%	-0.71%
PAVEMENT WARPING	5052+50	0.71%	-0.71%
PAVEMENT WARPING	5052+76	--	-2.00%
BEGIN NORMAL CROWN	5053+06	-2.00%	-2.00%
END NORMAL CROWN	5057+60	-2.00%	-2.00%
REVERSE CROWN	5058+42	--	2.00%
BEGIN FULL SUPER	5058+88	--	4.20%
END FULL SUPER	5067+17	--	4.20%
REVERSE CROWN	5067+63	--	2.00%
BEGIN NORMAL CROWN	5068+45	-2.00%	-2.00%
END NORMAL CROWN	5071+27	-2.00%	-2.00%
REVERSE CROWN	5071+69	2.00%	-2.00%
BEGIN FULL SUPER	5072+75	5.10%	-5.10%
END FULL SUPER	5077+94	5.10%	-5.10%
REVERSE CROWN	5079+00	2.00%	-2.00%
BEGIN NORMAL CROWN	5079+42	-2.00%	-2.00%

EAST FRONTAGE ROAD - NORTH OF CTH K SB PGL

SUPERELEVATION DESCRIPTION	STATION	SLOPE LT	SLOPE RT
REVERSE CROWN	5059+72	-2.00%	--
BEGIN FULL SUPER	5060+17	-4.20%	--
END FULL SUPER	5067+17	-4.20%	--
REVERSE CROWN	5067+61	-2.00%	--

DATE 12DEC12 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	1030-11-70 QUANTITY
0010	108.4400	CPM PROGRESS SCHEDULE	EACH	0.200	0.200
0020	201.0105	CLEARING **P**	STA	21.000	21.000
0040	201.0205	GRUBBING **P**	STA	21.000	21.000
0060	203.0100	REMOVING SMALL PIPE CULVERTS	EACH	14.000	14.000
0200	204.0100	REMOVING PAVEMENT **P**	SY	10,715.000	10,715.000
0220	204.0115	REMOVING ASPHALTIC SURFACE BUTT JOINTS **P**	SY	360.000	360.000
0230	204.0125	REMOVING ASPHALTIC SURFACE MILLING	TON	1,265.000	1,265.000
0240	204.0150	REMOVING CURB & GUTTER **P**	LF	890.000	890.000
0260	204.0170	REMOVING FENCE **P**	LF	5,151.000	5,151.000
0270	204.0195	REMOVING CONCRETE BASES	EACH	1.000	1.000
0340	205.0100	EXCAVATION COMMON	CY	58,525.000	58,525.000
0390	213.0100	FINISHING ROADWAY (PROJECT) 016. 1030-11-70	EACH	1.000	1.000
0430	214.0100	OBLITERATING OLD ROAD **P**	STA	12.000	12.000
0440	305.0110	BASE AGGREGATE DENSE 3/4-INCH	TON	1,805.000	1,805.000
0460	415.0095	CONCRETE PAVEMENT 9 1/2-INCH **P**	SY	3,850.000	3,850.000
0470	415.0210	CONCRETE PAVEMENT GAPS	EACH	2.000	2.000
0480	415.1095	CONCRETE PAVEMENT HES 9 1/2-INCH	SY	770.000	770.000
0490	416.0160	CONCRETE DRIVEWAY 6-INCH **P**	SY	90.000	90.000
0500	416.1010	CONCRETE SURFACE DRAINS **P**	CY	0.900	0.900
0510	440.4410.S	INCENTIVE IRI RIDE	DOL	674.000	674.000
0520	455.0105	ASPHALTIC MATERIAL PG58-28	TON	610.000	610.000
0530	455.0115	ASPHALTIC MATERIAL PG64-22	TON	30.000	30.000
0540	455.0605	TACK COAT	GAL	890.000	890.000
0550	460.1101	HMA PAVEMENT TYPE E-1	TON	980.000	980.000
0560	460.1103	HMA PAVEMENT TYPE E-3	TON	7,270.000	7,270.000
0570	460.1110	HMA PAVEMENT TYPE E-10	TON	1,800.000	1,800.000
0580	460.2000	INCENTIVE DENSITY HMA PAVEMENT	DOL	6,460.000	6,460.000
0590	465.0120	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	TON	350.000	350.000
0610	465.0315	ASPHALTIC FLUMES **P**	SY	6.000	6.000
0660	520.8000	CONCRETE COLLARS FOR PIPE	EACH	2.000	2.000
0670	521.0118	CULVERT PIPE CORRUGATED STEEL 18-INCH	LF	84.000	84.000
0680	521.0124	CULVERT PIPE CORRUGATED STEEL 24-INCH	LF	71.000	71.000
0700	521.0728	PIPE ARCH CORRUGATED STEEL 28X20-INCH	LF	100.000	100.000
0710	521.1018	APRON ENDWALLS FOR CULVERT PIPE STEEL 18-INCH	EACH	4.000	4.000
0720	521.1024	APRON ENDWALLS FOR CULVERT PIPE STEEL 24-INCH	EACH	3.000	3.000
0730	521.1228	APRON ENDWALLS FOR PIPE ARCH STEEL 28X20-INCH	EACH	2.000	2.000
0800	522.0130	CULVERT PIPE REINFORCED CONCRETE CLASS III 30-INCH	LF	212.000	212.000
0830	522.1012	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 12-INCH	EACH	3.000	3.000
0840	522.1015	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 15-INCH	EACH	1.000	1.000
0870	522.1030	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH	EACH	4.000	4.000
0960	523.0519	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 19X30-INCH	EACH	2.000	2.000
1010	601.0409	CONCRETE CURB & GUTTER 30-INCH TYPE A **P**	LF	1,065.000	1,065.000

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DATE 12DEC12 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	1030-11-70 QUANTITY
1020	601.0411	CONCRETE CURB & GUTTER 30-INCH TYPE D **P**	LF	3,510.000	3,510.000
1050	601.0557	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D **P**	LF	293.000	293.000
1070	602.2400	CONCRETE SAFETY ISLANDS	SF	1,034.000	1,034.000
1080	606.0100	RIPRAP LIGHT	CY	20.000	20.000
1090	606.0200	RIPRAP MEDIUM	CY	156.000	156.000
1150	608.0412	STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 12-INCH	LF	482.000	482.000
1160	608.0415	STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 15-INCH	LF	351.000	351.000
1170	608.0418	STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 18-INCH	LF	72.000	72.000
1190	608.0430	STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 30-INCH	LF	12.000	12.000
1240	608.0512	STORM SEWER PIPE REINFORCED CONCRETE CLASS V 12-INCH	LF	600.000	600.000
1290	610.0419	STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 19X30-INCH	LF	287.000	287.000
1340	611.0535	MANHOLE COVERS TYPE J-SPECIAL	EACH	15.000	15.000
1350	611.0606	INLET COVERS TYPE B	EACH	1.000	1.000
1370	611.0624	INLET COVERS TYPE H	EACH	12.000	12.000
1390	611.0642	INLET COVERS TYPE MS	EACH	2.000	2.000
1410	611.0654	INLET COVERS TYPE V	EACH	2.000	2.000
1420	611.2004	MANHOLES 4-FT DIAMETER	EACH	2.000	2.000
1430	611.2005	MANHOLES 5-FT DIAMETER	EACH	2.000	2.000
1440	611.2006	MANHOLES 6-FT DIAMETER	EACH	1.000	1.000
1470	611.3004	INLETS 4-FT DIAMETER	EACH	4.000	4.000
1480	611.3220	INLETS 2X2-FT	EACH	1.000	1.000
1490	611.3225	INLETS 2X2.5-FT	EACH	2.000	2.000
1500	611.3230	INLETS 2X3-FT	EACH	10.000	10.000
1520	611.3902	INLETS MEDIAN 2 GRATE	EACH	1.000	1.000
1570	612.0206	PIPE UNDERDRAIN UNPERFORATED 6-INCH	LF	550.000	550.000
1580	612.0208	PIPE UNDERDRAIN UNPERFORATED 8-INCH	LF	200.000	200.000
1590	612.0210	PIPE UNDERDRAIN UNPERFORATED 10-INCH	LF	200.000	200.000
1600	612.0212	PIPE UNDERDRAIN UNPERFORATED 12-INCH	LF	200.000	200.000
1610	612.0700	DRAIN TILE EXPLORATION	LF	2,500.000	2,500.000
1670	614.2300	MGS GUARDRAIL 3 **P**	LF	13.000	13.000
1680	614.2500	MGS THRIE BEAM TRANSITION **P**	LF	39.000	39.000
1690	614.2610	MGS GUARDRAIL TERMINAL EAT	EACH	1.000	1.000
1700	616.0100	FENCE WOVEN WIRE (HEIGHT) 001. 4-FT MANDATORY SUB	LF	4,770.000	4,770.000
1720	616.0700.S	FENCE SAFETY MANDATORY SUB	LF	4,770.000	4,770.000
1730	618.0100	MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT) 012. 1030-11-70	EACH	1.000	1.000
1790	619.1000	MOBILIZATION	EACH	0.200	0.200
1800	620.0300	CONCRETE MEDIAN SLOPED NOSE **P**	SF	390.000	390.000
1810	621.0100	LANDMARK REFERENCE MONUMENTS	EACH	6.000	6.000
1820	623.0200	DUST CONTROL SURFACE TREATMENT	SY	8,800.000	8,800.000
1830	624.0100	WATER	MGAL	19.000	19.000
1840	625.0500	SALVAGED TOPSOIL **P**	SY	86,100.000	86,100.000
1850	627.0200	MULCHING **P** MANDATORY SUB	SY	77,420.000	77,420.000
1860	628.1104	EROSION BALES MANDATORY SUB	EACH	190.000	190.000
1870	628.1504	SILT FENCE MANDATORY SUB	LF	3,000.000	3,000.000

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DATE 12DEC12 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	1030-11-70 QUANTITY
1880	628.1520	SILT FENCE MAINTENANCE MANDATORY SUB	LF	3,000.000	3,000.000
1890	628.1905	MOBILIZATIONS EROSION CONTROL MANDATORY SUB	EACH	7.000	7.000
1900	628.1910	MOBILIZATIONS EMERGENCY EROSION CONTROL MANDATORY SUB	EACH	7.000	7.000
1910	628.1920	CLEANING SEDIMENT BASINS MANDATORY SUB	CY	2.000	2.000
1920	628.2004	EROSION MAT CLASS I TYPE B MANDATORY SUB	SY	22,150.000	22,150.000
1930	628.2027	EROSION MAT CLASS II TYPE C MANDATORY SUB	SY	1,035.000	1,035.000
1950	628.7005	INLET PROTECTION TYPE A MANDATORY SUB	EACH	27.000	27.000
1960	628.7015	INLET PROTECTION TYPE C MANDATORY SUB	EACH	4.000	4.000
1970	628.7020	INLET PROTECTION TYPE D MANDATORY SUB	EACH	15.000	15.000
1980	628.7504	TEMPORARY DITCH CHECKS MANDATORY SUB	LF	1,785.000	1,785.000
1990	628.7555	CULVERT PIPE CHECKS MANDATORY SUB	EACH	10.000	10.000
2000	628.7560	TRACKING PADS	EACH	7.000	7.000
2010	628.7570	ROCK BAGS MANDATORY SUB	EACH	25.000	25.000
2020	629.0210	FERTILIZER TYPE B MANDATORY SUB	CWT	61.000	61.000
2030	630.0120	SEEDING MIXTURE NO. 20 MANDATORY SUB	LB	2,484.000	2,484.000
2050	630.0160	SEEDING MIXTURE NO. 60 MANDATORY SUB	LB	111.000	111.000
2060	630.0200	SEEDING TEMPORARY MANDATORY SUB	LB	1,203.000	1,203.000
2070	631.0300	SOD WATER MANDATORY SUB	MGAL	174.000	174.000
2080	631.1000	SOD LAWN MANDATORY SUB	SY	3,790.000	3,790.000
2090	631.1100	SOD EROSION CONTROL MANDATORY SUB	SY	320.000	320.000
2100	633.0100	DELINEATOR POSTS STEEL MANDATORY SUB	EACH	56.000	56.000
2110	633.0500	DELINEATOR REFLECTORS MANDATORY SUB	EACH	91.000	91.000
2120	633.1000	DELINEATOR BRACKETS MANDATORY SUB	EACH	1.000	1.000
2130	633.5200	MARKERS CULVERT END MANDATORY SUB	EACH	11.000	11.000
2140	634.0612	POSTS WOOD 4X6-INCH X 12-FT MANDATORY SUB	EACH	5.000	5.000
2150	634.0614	POSTS WOOD 4X6-INCH X 14-FT MANDATORY SUB	EACH	12.000	12.000
2160	634.0616	POSTS WOOD 4X6-INCH X 16-FT MANDATORY SUB	EACH	65.000	65.000
2170	634.0618	POSTS WOOD 4X6-INCH X 18-FT MANDATORY SUB	EACH	9.000	9.000
2200	637.0202	SIGNS REFLECTIVE TYPE II MANDATORY SUB	SF	834.270	834.270
2210	637.0402	SIGNS REFLECTIVE FOLDING TYPE II MANDATORY SUB	SF	10.000	10.000
2220	638.2102	MOVING SIGNS TYPE II MANDATORY SUB	EACH	1.000	1.000
2230	638.2602	REMOVING SIGNS TYPE II MANDATORY SUB	EACH	52.000	52.000
2240	638.3000	REMOVING SMALL SIGN SUPPORTS MANDATORY SUB	EACH	45.000	45.000
2250	638.4000	MOVING SMALL SIGN SUPPORTS MANDATORY SUB	EACH	2.000	2.000
2260	642.6001	FIELD LABORATORY	EACH	0.200	0.200
2290	643.0100	TRAFFIC CONTROL (PROJECT) 016. 1030-11-70 MANDATORY SUB	EACH	1.000	1.000
2330	643.0300	TRAFFIC CONTROL DRUMS MANDATORY SUB	DAY	10,455.000	10,455.000
2340	643.0420	TRAFFIC CONTROL BARRICADES TYPE III MANDATORY SUB	DAY	2,030.000	2,030.000
2350	643.0453	TRAFFIC CONTROL BARRICADES PERMANENT TYPE III MANDATORY SUB	EACH	5.000	5.000
2360	643.0705	TRAFFIC CONTROL WARNING LIGHTS TYPE A MANDATORY SUB	DAY	3,830.000	3,830.000
2370	643.0715	TRAFFIC CONTROL WARNING LIGHTS TYPE C MANDATORY SUB	DAY	1,325.000	1,325.000

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DATE 12DEC12 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	1030-11-70 QUANTITY
2380	643.0800	TRAFFIC CONTROL ARROW BOARDS MANDATORY SUB	DAY	185.000	185.000
2390	643.0900	TRAFFIC CONTROL SIGNS MANDATORY SUB	DAY	5,135.000	5,135.000
2410	643.1000	TRAFFIC CONTROL SIGNS FIXED MESSAGE MANDATORY SUB	SF	349.000	349.000
2420	643.1050	TRAFFIC CONTROL SIGNS PCMS MANDATORY SUB	DAY	305.000	305.000
2430	643.2000	TRAFFIC CONTROL DETOUR (PROJECT) 001. 1030-11-70 MANDATORY SUB	EACH	1.000	1.000
2450	643.3000	TRAFFIC CONTROL DETOUR SIGNS MANDATORY SUB	DAY	31,368.000	31,368.000
2470	645.0120	GEOTEXTILE FABRIC TYPE HR **P**	SY	300.000	300.000
2480	645.0130	GEOTEXTILE FABRIC TYPE R **P**	SY	60.000	60.000
2490	646.0106	PAVEMENT MARKING EPOXY 4-INCH MANDATORY SUB	LF	33,225.000	33,225.000
2500	646.0126	PAVEMENT MARKING EPOXY 8-INCH MANDATORY SUB	LF	1,820.000	1,820.000
2510	646.0600	REMOVING PAVEMENT MARKINGS MANDATORY SUB	LF	15,610.000	15,610.000
2540	646.0843.S	PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH MANDATORY SUB	LF	1,400.000	1,400.000
2550	646.0881.S	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH MANDATORY SUB	LF	3,775.000	3,775.000
2560	646.0883.S	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH MANDATORY SUB	LF	435.000	435.000
2580	647.0166	PAVEMENT MARKING ARROWS EPOXY TYPE 2 MANDATORY SUB	EACH	11.000	11.000
2590	647.0176	PAVEMENT MARKING ARROWS EPOXY TYPE 3 MANDATORY SUB	EACH	2.000	2.000
2600	647.0356	PAVEMENT MARKING WORDS EPOXY MANDATORY SUB	EACH	11.000	11.000
2610	647.0456	PAVEMENT MARKING CURB EPOXY MANDATORY SUB	LF	190.000	190.000
2620	647.0566	PAVEMENT MARKING STOP LINE EPOXY 18-INCH MANDATORY SUB	LF	121.000	121.000
2630	647.0606	PAVEMENT MARKING ISLAND NOSE EPOXY MANDATORY SUB	EACH	5.000	5.000
2640	647.0726	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH MANDATORY SUB	LF	990.000	990.000
2650	647.0746	PAVEMENT MARKING DIAGONAL EPOXY 24-INCH MANDATORY SUB	LF	390.000	390.000
2660	648.0100	LOCATING NO-PASSING ZONES **P** MANDATORY SUB	MI	0.160	0.160
2670	649.0300	TEMPORARY PAVEMENT MARKING REFLECTIVE TAPE 4-INCH MANDATORY SUB	LF	6,600.000	6,600.000
2680	652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	LF	565.000	565.000
2690	652.0335	CONDUIT RIGID NONMETALLIC SCHEDULE 80 3-INCH	LF	60.000	60.000
2710	653.0140	PULL BOXES STEEL 24X42-INCH MANDATORY SUB	EACH	4.000	4.000
2720	654.0215	CONCRETE CONTROL CABINET BASES TYPE 9 MANDATORY SUB	EACH	1.000	1.000
2740	655.0620	ELECTRICAL WIRE LIGHTING 8 AWG MANDATORY SUB	LF	2,540.000	2,540.000
2760	656.0400	ELECTRICAL SERVICE MAIN LUGS ONLY METER PEDESTAL (LOCATION) 001. HL-51-RJ MANDATORY SUB	LS	1.000	1.000
2770	659.0802	PLAQUES SEQUENCE IDENTIFICATION MANDATORY SUB	EACH	4.000	4.000

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LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1030-11-70 QUANTITY
2780	690.0150	SAWING ASPHALT	LF	98.000	98.000
2790	690.0250	SAWING CONCRETE	LF	2,090.000	2,090.000
2800	ASP.1T0A	ON-THE-JOB TRAINING APPRENTICE AT $5.00/HR	HRS	160.000	160.000
2810	ASP.1T0G	ON-THE-JOB TRAINING GRADUATE AT $5.00/HR	HRS	600.000	600.000
2820	SPV.0035	SPECIAL 001. POND LINING CLAY	CY	290.000	290.000
2850	SPV.0060	SPECIAL 002. ROOTSTOCK VEGETATION MANDATORY SUB	EACH	310.000	310.000
2860	SPV.0060	SPECIAL 003. COVER PLATES LEFT IN PLACE	EACH	4.000	4.000
2870	SPV.0060	SPECIAL 005. SALVAGE EXISTING RAMP GATE SYSTEM	EACH	1.000	1.000
2890	SPV.0060	SPECIAL 009. EROSION CONTROL FILTER BAGS MANDATORY SUB	EACH	25.000	25.000
2900	SPV.0060	SPECIAL 012. EXPOSING EXISTING UTILITY MANDATORY SUB	EACH	4.000	4.000
2910	SPV.0060	SPECIAL 014. BOX SPILLWAY 2'X2.5'	EACH	1.000	1.000
2920	SPV.0060	SPECIAL 015. BOX SPILLWAY 2'X4'	EACH	1.000	1.000
2930	SPV.0060	SPECIAL 017. PERMANENT BARRICADES TYPE III MANDATORY SUB	EACH	4.000	4.000
2940	SPV.0060	SPECIAL 018. BARRICADE RACK MANDATORY SUB	EACH	1.000	1.000
2970	SPV.0060	SPECIAL 030. SILT FENCE DRAINAGE OUTLET EROSION CONTROL FILTER BAGS MANDATORY SUB	EACH	2.000	2.000
2980	SPV.0060	SPECIAL 031. SILT FENCE DRAINAGE OUTLET ROCK BAGS MANDATORY SUB	EACH	5.000	5.000
3010	SPV.0060	SPECIAL 072. FLEXIBLE TUBULAR MARKER BASES LEFT IN PLACE MANDATORY SUB	EACH	27.000	27.000
3020	SPV.0060	SPECIAL 073. FLEXIBLE TUBULAR MARKER POSTS LEFT IN PLACE MANDATORY SUB	EACH	27.000	27.000
3030	SPV.0060	SPECIAL 077. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS MANDATORY SUB	EACH	6.000	6.000
3050	SPV.0060	SPECIAL 081. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2 MANDATRY SUB	EACH	9.000	9.000
3070	SPV.0060	SPECIAL 100. INSTALLING STATE FURNISHED DISTRIBUTION CENTERS MANDATORY SUB	EACH	1.000	1.000
3080	SPV.0060	SPECIAL 102. REMOVING LIGHTING UNITS MANDATORY SUB	EACH	4.000	4.000
3090	SPV.0060	SPECIAL 103. LAMP DISPOSAL HIGH INTENSITY DISCHARGE MANDATORY SUB	EACH	4.000	4.000
3100	SPV.0060	SPECIAL 108. TEMPORARY WOOD POLE LIGHTING UNITS MANDATORY SUB	EACH	4.000	4.000
3110	SPV.0075	SPECIAL 001. TRUCK MOUNTED ATTENUATOR	HRS	60.000	60.000
3130	SPV.0090	SPECIAL 010. CONCRETE BARRIER PAN REINFORCED 42-INCH	LF	142.000	142.000
3140	SPV.0090	SPECIAL 025. WET REFLECTIVE REMOVABLE TEMPORARY PAVEMENT MARKING TAPE MANDATORY SUB	LF	6,600.000	6,600.000
3170	SPV.0090	SPECIAL 101. REMOVING OVERHEAD LIGHTING CABLE MANDATORY SUB	LF	1,500.000	1,500.000
3180	SPV.0090	SPECIAL 111. OVERHEAD CABLE QUADRUPLEX 6 AWG MANDATORY SUB	LF	535.000	535.000
3190	SPV.0105	SPECIAL 001. FIELD OFFICE FIXED	LS	0.200	0.200
3240	SPV.0105	SPECIAL 016. SURVEY PROJECT 1030-11-70	LS	1.000	1.000
3250	SPV.0105	SPECIAL 017. PAVEMENT CLEANUP PROJECT 1030-11-70	LS	1.000	1.000

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DATE 12DEC12 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	1030-11-70 QUANTITY
3340	SPV.0105	SPECIAL 111. FREEWAY LIGHTING INTEGRATOR ID 1030-11-70 MANDATORY SUB	LS	1.000	1.000
3360	SPV.0105	SPECIAL 601. FLASHING SOLAR BEACON ASSEMBLY STA 57+75 RT	LS	1.000	1.000
3370	SPV.0105	SPECIAL 602. FLASHING SOLAR BEACON ASSEMBLY STA 57+75 LT	LS	1.000	1.000
3380	SPV.0180	SPECIAL 001. GEOGRID REINFORCEMENT	SY	34,300.000	34,300.000
3390	SPV.0180	SPECIAL 002. GEOTEXTILE FABRIC TYPE FF	SY	480.000	480.000
3410	SPV.0180	SPECIAL 004. REMOVING RUMBLE STRIPS	SY	400.000	400.000
3420	SPV.0180	SPECIAL 005. ROOTSTOCK PROTECTION MANDATORY SUB	SY	1,110.000	1,110.000
3430	SPV.0180	SPECIAL 006. MULCHING SPECIAL MANDATORY SUB	SY	4,940.000	4,940.000
3440	SPV.0195	SPECIAL 002. BASE AGGREGATE DENSE 1 1/4-INCH SPECIAL	TON	32,265.000	32,265.000
3450	SPV.0195	SPECIAL 006. SELECT SUBBASE	TON	12,730.000	12,730.000
3460	SPV.0200	SPECIAL 001. MANHOLES 4-FT DIAMETER SPECIAL	VF	250.000	250.000

CLEARING AND GRUBBING

CATEGORY	STATION		STATION	OFFSET	201.0105 CLEARING STA	201.0205 GRUBBING STA
1000	EAST FRONTAGE ROAD SOUTH					
	3036+00	-	3045+00	LT/RT	9	9
	3050+00	-	3051+00	LT	1	1
	3053+00	-	3056+00	LT/RT	3	3
	EAST FRONTAGE ROAD NORTH					
	5052+00	-	5056+00	LT	4	4
	5075+00	-	5078+00	RT	3	3
	MICHEL COURT					
	16+00	-	17+00	LT	1	1
	TOTALS				21	21

REMOVING PAVEMENT

CATEGORY	ROADWAY	STATION	204.0100 REMOVING PAVEMENT SY	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	204.0125 REMOVING ASPHALTIC SURFACE MILLING TON	REMARKS
1000	EXISTING EAST FRONTAGE ROAD SOUTH					
		3031+00-3056+18	7,320	--	435	CONCRETE UNDER ASPHALT
	EXISTING EAST FRONTAGE ROAD NORTH					
		5052+00-5079+50	3,395	--	830	CONCRETE UNDER ASPHALT
	RAMP SE					
		1049+60 - 1051+17	--	360	--	
		TOTALS	10,715	360	1,265	

NOTE: STATIONING BASED OFF IH 94 REFERENCE LINE

REMOVING DRIVEWAYS & CULVERTS

CATEGORY	ROADWAY	STATION	OFFSET	LENGTH	203.0100 REMOVING SMALL PIPE CULVERTS EACH	205.0100* EXCAVATION COMMON CY
1000	EAST FRONTAGE ROAD SOUTH					
		3031+75	52' RT	40'	1	--
		3032+20	54' LT	45'	1	--
		3033+00	11' LT	60'	1	--
		3034+70	75' LT	40'	1	--
		3040+50	128' LT	80'	1	--
		3041+70	177' LT	30'	1	35
		3042+10	225' LT	32'	1	40
	EAST FRONTAGE ROAD NORTH					
		5052+50	120' LT	80'	1	--
	CTH K					
		47+40	25' RT	30'	1	40
	MICHEL COURT					
		12+45	250' LT	30'	1	60
		12+70	235' LT	32'	1	55
		13+25	215' LT	32'	1	80
		14+65	215' LT	30'	1	70
		16+00	215' LT	34'	1	70
		TOTALS			14	450

* FOR REMOVING OLD DRIVEWAYS, ADDITIONAL QUANTITIES SHOWN ELSEWHERE SEE "EARTHWORK" TABLE

REMOVING CURB & GUTTER

CATEGORY	ROADWAY	LOCATION	204.0150 REMOVING CURB & GUTTER LF
1000	EXISTING EAST FRONTAGE ROAD SOUTH		
		3031+54 - 3034+68	850
	EXISTING EAST FRONTAGE ROAD NORTH		
		1066+00 - 1066+40	40
	TOTAL		890

FINISHING ROADWAY PROJECT ID 1030-11-70

CATEGORY	PROJECT	213.0100.016 EACH
1000	1031-07-70	1
	TOTAL	1

REMOVING FENCE

CATEGORY	ROADWAY	STATION	OFFSET	STATION	OFFSET	204.0170 REMOVING FENCE LF
1000	EAST FRONTAGE ROAD SOUTH					
		3031+00	14' LT	3032+06	14' LT	106
		3035+41	92' LT	1054'SE+88	142' LT	1,990
	EAST FRONTAGE ROAD NORTH					
		1056+17	107' LT	1065+59	44' LT	972
		1066+49	12' LT	5079+50	33' LT	1,300
	MICHEL COURT					
		12+25	73' LT	18+17	31' LT	615
		17+15	31' LT	17+15	137' RT	168
	TOTAL					5,151

OBLITERATING OLD ROAD

CATEGORY	ROADWAY	214.0100 OBLITERATING OLD ROAD STA
1000	EAST FRONTAGE ROAD SOUTH	
	3040+00 - 3046+00	6
	EAST FRONTAGE ROAD NORTH	
	5052+00 - 5058+00	6
	TOTAL	12

REPLACED WITH
REVISED SHEET 122
2-1-2013

Plan Revision
1030-11-70
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CLEARING AND GRUBBING

CATEGORY	STATION		STATION	OFFSET	201.0105 CLEARING STA	201.0205 GRUBBING STA
1000	EAST FRONTAGE ROAD SOUTH					
	3036+00	-	3045+00	LT/RT	9	9
	3050+00	-	3051+00	LT	1	1
	3053+00	-	3056+00	LT/RT	3	3
	EAST FRONTAGE ROAD NORTH					
	5052+00	-	5056+00	LT	4	4
	5075+00	-	5078+00	RT	3	3
	MICHEL COURT					
	16+00	-	17+00	LT	1	1
	TOTALS				21	21

REMOVING PAVEMENT

CATEGORY	ROADWAY	STATION	204.0100 REMOVING PAVEMENT SY	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	204.0125 REMOVING ASPHALTIC SURFACE MILLING TON	REMARKS
1000	EXISTING EAST FRONTAGE ROAD SOUTH					
		3031+00-3056+18	7,320	--	830	CONCRETE UNDER ASPHALT
	EXISTING EAST FRONTAGE ROAD NORTH					
		5052+00-5079+50	3,395	--	435	CONCRETE UNDER ASPHALT
	RAMP SE					
		1049+60 - 1051+17	--	360	--	
		TOTALS	10,715	360	1,265	

NOTE: STATIONING BASED OFF IH 94 REFERENCE LINE

REMOVING DRIVEWAYS & CULVERTS

CATEGORY	ROADWAY	STATION	OFFSET	LENGTH	203.0100 REMOVING SMALL PIPE CULVERTS EACH	205.0100* EXCAVATION COMMON CY
1000	EAST FRONTAGE ROAD SOUTH					
		3031+75	52' RT	40'	1	--
		3032+20	54' LT	45'	1	--
		3033+00	11' LT	60'	1	--
		3034+70	75' LT	40'	1	--
		3040+50	128' LT	80'	1	--
		3041+70	177' LT	30'	1	35
		3042+10	225' LT	32'	1	40
	EAST FRONTAGE ROAD NORTH					
		5052+50	120' LT	80'	1	--
	CTH K					
		47+40	25' RT	30'	1	40
	MICHEL COURT					
		12+45	250' LT	30'	1	60
		12+70	235' LT	32'	1	55
		13+25	215' LT	32'	1	80
		14+65	215' LT	30'	1	70
		16+00	215' LT	34'	1	70
		TOTALS			14	450

* FOR REMOVING OLD DRIVEWAYS, ADDITIONAL QUANTITIES SHOWN ELSEWHERE SEE "EARTHWORK" TABLE

REMOVING CURB & GUTTER

CATEGORY	ROADWAY	LOCATION	204.0150 REMOVING CURB & GUTTER LF
1000	EXISTING EAST FRONTAGE ROAD SOUTH		
		3031+54 - 3034+68	850
	EXISTING EAST FRONTAGE ROAD NORTH		
		1066+00 - 1066+40	40
	TOTAL		890

FINISHING ROADWAY PROJECT ID 1030-11-70

CATEGORY	PROJECT	213.0100.016 EACH
1000	1031-07-70	1
	TOTAL	1

REMOVING FENCE

CATEGORY	ROADWAY	STATION	OFFSET	STATION	OFFSET	204.0170 REMOVING FENCE LF
1000	EAST FRONTAGE ROAD SOUTH					
		3031+00	14' LT	3032+06	14' LT	106
		3035+41	92' LT	1054'SE+88	142' LT	1,990
	EAST FRONTAGE ROAD NORTH					
		1056+17	107' LT	1065+59	44' LT	972
		1066+49	12' LT	5079+50	33' LT	1,300
	MICHEL COURT					
		12+25	73' LT	18+17	31' LT	615
		17+15	31' LT	17+15	137' RT	168
	TOTAL					5,151

OBLITERATING OLD ROAD

CATEGORY	ROADWAY	214.0100 OBLITERATING OLD ROAD STA
1000	EAST FRONTAGE ROAD SOUTH	
	3040+00 - 3046+00	6
	EAST FRONTAGE ROAD NORTH	
	5052+00 - 5058+00	6
	5064+00 - 5074+50	9
	TOTAL	21

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EARTHWORK

CATEGORY - 1000			A		C	D			H	G	I	J	K
			Item #205.0100**		*	*	*	*	*	*	*	*	*
Division	From/To Station	Location	Excavation Common (1)		Salvaged/ Unusable Pavement Material (4)	Available Material (5)	Reduced EBS in Fill (6)	Expanded EBS Backfill (7)	Unexpanded Fill	Estimated Disposal Area Outside 1:1 Slope (8)	Expanded Fill (9)	Mass Ordinate +/- (10) (11)	Waste
			Cut (2)	EBS Excavation (3)			Factor 0.80	Factor 1.30			(CY) Factor 1.25		
			(CY)		(CY)	(CY)			(CY)	(CY)		(CY)	(CY)
1A	3044+00 - 3056+00	EAST FRONTAGE ROAD	9,807	2,322	0	9,807	1,857	3,018	12,168	2,504	12,888	-6,099	0
1A	5053+00 - 5075+50	EAST FRONTAGE ROAD	14,887	19	0	14,887	15	24	11,230	0	14,019	843	843
1A	47+50-57+00	CTH K	2,919	0	0	2,919	0	0	164	0	206	2,714	2,714
1A	10+50-17+50	MICHEL COURT	1,137	0	0	1,137	0	0	367	0	459	678	678
1A	0+50-4+00	SWALE	236	0	0	236	0	0	0	0	0	236	236
1B	3031+00 - 3044+00	EAST FRONTAGE ROAD	16,631	238	831	15,801	190	309	3,942	0	4,689	10,802	10,802
1B	5075+50 - 5079+50	EAST FRONTAGE ROAD	1,793	215	123	1,671	172	279	273	0	127	1,265	1,265
1B	1038+00-1049+00	RAMP SE	7,872	0	351	7,520	0	0	1,521	0	1,901	5,619	5,619
	Grand Total (CY)		58,075		1,305	53,977	2,234	3,631	29,666	2,504	34,289	16,057	22,156

1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
The existing pavement structure is not shown in the cross sections.
2) Cut volume includes Salvaged/Unusable Pavement Material volume above the bottom of the subbase
3) EBS Excavation to be backfilled with Borrow or Cut.
4) The Salvaged/Unusable Pavement Material quantity includes concrete below the bottom of the subbase.
5) Available Material = Cut - Salvaged/Unusable Pavement Material
6) Reduced EBS in Fill - Excavated EBS material is usable in Fills outside the 1:1 slope. EBS in Fill Reduction factor = 0.8
7) Expanded EBS Backfill - This is to be filled with Borrow or Cut material. EBS Backfill Factor = 1.3.
8) The estimated area outisde the 1:1 fill slopes where excavated EBS or excess topsoil material is placed.
9) Expanded Fill
Expanded Fill = (Unexpanded Fill - Reduced EBS) * Fill
If Reduced EBS > than volume available outside of the 1:1 slope subtract only available volume.
Remaining volume of reduced EBS is considered waste.
10) The Mass Ordinate + or - Qty calculated for the Project. A plus quantity indicates an excess of material and a minus indicates a shortage of material.
11) Use 227 cubic yards of material from Ramp SE as fill for the 227 cubic yards of material needed for the East Frontage Road

** ADDITIONAL QUANTITIES SHOWN ELSEWHERE SEE REMOVING DRIVEWAYS
* FOR INFORMATION ONLY

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EARTHWORK

CATEGORY - 1000			A		C	D			H	G	I	J	K
			Item #205.0100**		*	*	*	*	*	*	*	*	*
Division	From / To Station	Location	Excavation Common (1)		Salvaged / Unusable Pavement Material (4)	Available Material (5)	Reduced EBS in Fill (6)	Expanded EBS Backfill (7)	Unexpanded Fill	Estimated Disposal Area Outside 1:1 Slope (8)	Expanded Fill (9)	Mass Ordinate + / - (10) (11)	Waste
			Cut (2)	EBS Excavation (3)			Factor 0.80	Factor 1.30			(CY) Factor 1.25		
			(CY)		(CY)	(CY)			(CY)	(CY)		(CY)	(CY)
1A	3044+00 - 3056+00	EAST FRONTAGE ROAD	9,807	2,322	0	9,807	1,857	3,018	12,168	2,504	12,888	-6,099	0
1A	5053+00 - 5075+50	EAST FRONTAGE ROAD	15,489	3,376	0	15,489	2,701	4,389	10,708	0	10,010	1,090	1,090
1A	47+50-57+00	CTH K	2,919	0	0	2,919	0	0	164	0	206	2,714	2,714
1A	10+50-17+50	MICHEL COURT	1,137	0	0	1,137	0	0	367	0	459	678	678
1A	0+50-4+00	SWALE	236	0	0	236	0	0	0	0	0	236	236
1B	3031+00 - 3044+00	EAST FRONTAGE ROAD	16,631	238	831	15,801	190	309	3,942	0	4,689	10,802	10,802
1B	5075+50 - 5079+50	EAST FRONTAGE ROAD	1,793	215	123	1,671	172	279	273	0	127	1,265	1,265
1B	1038+00-1049+00	RAMP SE	7,872	0	351	7,520	0	0	1,521	0	1,901	5,619	5,619
	Grand Total (CY)		62,035		1,305	54,580	4,920	7,996	29,144	2,504	30,280	16,304	22,403

1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
The existing pavement structure is not shown in the cross sections.
2) Cut volume includes Salvaged/Unusable Pavement Material volume above the bottom of the subbase
3) EBS Excavation to be backfilled with Borrow or Cut.
4) The Salvaged/Unusable Pavement Material quantity includes concrete below the bottom of the subbase.
5) Available Material = Cut - Salvaged/Unusable Pavement Material
6) Reduced EBS in Fill - Excavated EBS material is usable in Fills outside the 1:1 slope. EBS in Fill Reduction factor = 0.8
7) Expanded EBS Backfill - This is to be filled with Borrow or Cut material. EBS Backfill Factor = 1.3.
8) The estimated area outisde the 1:1 fill slopes where excavated EBS or excess topsoil material is placed.
9) Expanded Fill
Expanded Fill = (Unexpanded Fill - Reduced EBS) * Fill
If Reduced EBS > than volume available outside of the 1:1 slope subtract only available volume.
Remaining volume of reduced EBS is considered waste.
10) The Mass Ordinate + or - Qty calculated for the Project. A plus quantity indicates an excess of material and a minus indicates a shortage of material.
11) Use 227 cubic yards of material from Ramp SE as fill for the 227 cubic yards of material needed for the East Frontage Road

** ADDITIONAL QUANTITIES SHOWN ELSEWHERE SEE REMOVING DRIVEWAYS
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EARTHWORK

	CATEGORY - 1000		A		C	D			H	G	I	J	K
			Item #205.0100**		*	*	*	*	*	*	*	*	*
Division	From/To Station	Location	Excavation Common (1)		Salvaged/ Unusable Pavement Material (4)	Available Material (5)	Reduced EBS in Fill (6)	Expanded EBS Backfill (7)	Unexpanded Fill	Estimated Disposal Area Outside 1:1 Slope (8)	Expanded Fill (9)	Mass Ordinate +/- (10) (11)	Waste
			Cut (2)	EBS Excavation (3)			Factor 0.80	Factor 1.30			(CY) Factor 1.25		
			(CY)		(CY)	(CY)			(CY)	(CY)		(CY)	(CY)
1A	3044+00 - 3056+00	EAST FRONTAGE ROAD	9,807	2,322	0	9,807	1,857	3,018	12,168	2,504	12,888	-6,099	0
1A	5053+00 - 5075+50	EAST FRONTAGE ROAD	15,489	3,376	0	15,489	2,701	4,389	9,877	0	8,970	2,130	2,130
1A	47+50-57+00	CTH K	2,919	0	0	2,919	0	0	164	0	206	2,714	2,714
1A	10+50-17+50	MICHEL COURT	1,137	0	0	1,137	0	0	367	0	459	678	678
1A	0+50-4+00	SWALE	236	0	0	236	0	0	0	0	0	236	236
1B	3031+00 - 3044+00	EAST FRONTAGE ROAD	16,631	238	831	15,801	190	309	3,942	0	4,689	10,802	10,802
1B	5075+50 - 5079+50	EAST FRONTAGE ROAD	1,793	215	123	1,671	172	279	273	0	127	1,265	1,265
1B	1038+00-1049+00	RAMP SE	7,872	0	351	7,520	0	0	1,521	0	1,901	5,619	5,619
	Grand Total (CY)		62,035		1,305	54,580	4,920	7,996	28,313	2,504	29,241	17,343	23,442

1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
The existing pavement structure is not shown in the cross sections.
2) Cut volume includes Salvaged/Unusable Pavement Material volume above the bottom of the subbase
3) EBS Excavation to be backfilled with Borrow or Cut.
4) The Salvaged/Unusable Pavement Material quantity includes concrete below the bottom of the subbase.
5) Available Material = Cut - Salvaged/Unusable Pavement Material
6) Reduced EBS in Fill - Excavated EBS material is usable in Fills outside the 1:1 slope. EBS in Fill Reduction factor = 0.8
7) Expanded EBS Backfill - This is to be filled with Borrow or Cut material. EBS Backfill Factor = 1.3.
8) The estimated area outisde the 1:1 fill slopes where excavated EBS or excess topsoil material is placed.
9) Expanded Fill
Expanded Fill = (Unexpanded Fill - Reduced EBS) * Fill
If Reduced EBS > than volume available outside of the 1:1 slope subtract only available volume.
Remaining volume of reduced EBS is considered waste.
10) The Mass Ordinate + or - Qty calculated for the Project. A plus quantity indicates an excess of material and a minus indicates a shortage of material.
11) Use 227 cubic yards of material from Ramp SE as fill for the 227 cubic yards of material needed for the East Frontage Road

** ADDITIONAL QUANTITIES SHOWN ELSEWHERE SEE REMOVING DRIVEWAYS
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Division	From/To Station	Location	Common Excavation (1)	(item # 205.0100)	Salvaged/Unusable Pavement Material (4)	Available Material (5)	Marsh Excavation (6)	Rock Excavation (7)	Reduced Marsh in Fill (8)	Reduced EBS in Fill (9)	Expanded Marsh Backfill (10)	Expanded EBS Backfill (11)	Expanded Rock (12)	Unexpanded Fill	Expanded Fill (13)	Mass Ordinate +/- (14)	Waste	Borrow	Comment:
			Cut (2)	EBS Excavation (3)			(item #205.0500)	(item #205.0200)	Factor 0.60	Factor 0.80	Factor 1.50	Factor 1.30	Factor 1.10		Factor 1.25			(item #208.0100)	
Division 1																			
A&W Access Road	00+29 to 13+50		1,417	0	0	1,417	0	0	0	0	0	0	0	5,871	7,339	-5,921	0	-5,921	
Adams Road	9+00 to 13+50		752	0	0	752	0	0	0	0	0	0	0	1,002	1,253	-501	0	-501	
Division 1 Subtotal			2,169	0	0	2,169	0	0	0	0	0	0	0	6,873	8,592	-6,422	0	-6,422	
Grand Total			2,169.29	0.00	0.00	2,169.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6,873.25	8,591.57	-6,422.28	0.00	-6,422.28	
Total Common Exc				2,169.29															

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 Borrow material. Note: this is designers choice, can be backfilled with Borrow, or Cut as well.
4) Salvaged/Unusable Pavement Material
5) Available Material = Cut - Salvaged/Unusuable Pavement Material
6) Marsh Excavation - to be backfilled with Select Borrow Material. Note: this is designers choice, can be backfilled with Borrow, or Cut as well. Item number 20505
7) Rock Excavation item number 205.0200
8) Reduced Marsh in Fill - Excavated Marsh material is usuable in Fills outside the 1:1 slope. Marsh in Fill Reduction factor = 0.6
9) Reduced EBS in Fill - Excavated EBS material is usuable in Fills outside the 1:1 slope. EBS in Fill Reduction factor = 0.8
10) Expanded Marsh Backfill - This is to be filled with Select Borrow material. Marsh Backfill Factor = 1.5. Item number 208.1100
11) Expanded EBS Backfill - This is to be filled with Select Borrow material. EBS Backfill Factor = 1.3. Item number 208.1100
12) Expanded Rock - Factor = 1.1
13) Expanded Fill. Factor = 1.25
Depending on selections: **Expanded Fill = (Unexpanded Fill - Rock* Rock Factor - Reduced Marsh - Reduced EBS) * Fill Factor**
Or Expanded Fill = (Unexpanded Fill - Rock* Rock Factor - Reduced EBS) * Fill Factor
Or Expanded Fill = (Unexpanded Fill - Rock* Rock Factor - Reduced Marsh) * Fill Factor
Or Expanded Fill = (Unexpanded Fill - Rock* Rock Factor) * Fill Factor
14) 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.
15) Use 111,764 CY of material from Division 1. Borrow Excavation item number 208.0100

REMOVE AND SALVAGE RAMP GATE

CATEGORY	ROADWAY	LOCATION	204.0195 REMOVING CONCRETE BASES EACH	SPV.0060.005 SALVAGING EXISTING RAMP GATE SYSTEM EACH
1000	EXISTING EAST FRONTAGE ROAD NORTH AND I94 ON RAMP			
		1065+93	1	1
	TOTAL		1	1

CONCRETE ITEMS

CATEGORY	ROADWAY	STATIONS	415.0095 CONCRETE PAVEMENT 9 1/2-INCH SY	415.1095 CONCRETE PAVEMENT HES 9 1/2-INCH SY	416.1010 CONCRETE SURFACE DRAINS CY	416.0160 CONCRETE DRIVEWAY 6-INCH SY	415.0210 CONCRETE PAVEMENT GAPS EACH	602.2400 CONCRETE SAFETY ISLANDS SF	620.0300 CONCRETE MEDIAN SLOPED NOSE SF	SPV.0090.010 CONCRETE BARRIER PAN REINFORCED 42-INCH LF
1000	EAST FRONTAGE ROAD SOUTH									
		3031+00 - 3056+00	400	--	--	--	--	517	50	--
	EAST FRONTAGE ROAD NORTH									
		5052+00 - 5079+50	3,450	770	--	--	2	517	340	142
	MICHEL COURT									
		10+41 - 17+57	--	--	0.9	90	--	--	--	--
	TOTALS		3,850	770	0.9	90	2	1,034	390	142

BASE AGGREGATE ITEMS

CATEGORY	ROADWAY	STATION	STATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	SPV.0195.002 BASE AGGREGATE DENSE 1 1/4-INCH SPECIAL TON	SPV.0195.006 SELECT SUBBASE TON
1000	CTH K					
		47+42 -	57+36	35	1,420	--
	EAST FRONTAGE ROAD SOUTH					
		3031+00 -	3056+00	505	12,340	6,520
	EAST FRONTAGE ROAD NORTH					
		5052+00 -	5079+50	515	12,805	6,210
	MICHEL COURT					
		10+41 -	17+57	650	2,015	--
	SE EXISTING RAMP					
		1039+00 -	1051+25	100	3,685	--
	TOTALS			1,805	32,265	12,730

ASPHALTIC PAVEMENT ITEMS

CATEGORY	ROADWAY	STATION	STATION	455.0105 ASPHALTIC MATERIAL PG58-28 TON	455.0115 ASPHALTIC MATERIAL PG64-22 TON	455.0605 TACK COAT GAL	460.1101 HMA PAVEMENT TYPE E-1 TON	460.1103 HMA PAVEMENT TYPE E-3 TON	460.1110 HMA PAVMENT TYPE E-10 TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	465.0315 ASPHALTIC FLUMES SY
1000	CTH K										
		113+00 -	124+00	20	--	30	--	340	--	--	--
	EAST FRONTAGE ROAD SOUTH										
		3031+00 -	3056+00	250	--	300	--	3,770	--	--	--
	EAST FRONTAGE ROAD NORTH										
		5052+00 -	5079+50	200	--	250	--	3,160	--	50	--
	MICHEL COURT										
		10+41 -	17+57	60	--	90	980	--	--	300	6
	SE EXISTING RAMP										
		1039+00 -	1051+25	80	30	220	--	--	1,800	--	--
	UNDISTRIBUTED			--	--	--	--	--	--	--	--
	TOTALS			610	30	890	980	7,270	1,800	350	6

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REMOVE AND SALVAGE RAMP GATE

CATEGORY	ROADWAY	LOCATION	204.0195 REMOVING CONCRETE BASES EACH	SPV.0060.005 SALVAGING EXISTING RAMP GATE SYSTEM EACH
1000	EXISTING EAST FRONTAGE ROAD NORTH AND I94 ON RAMP	1065+93	1	1
	TOTAL		1	1

CONCRETE ITEMS

CATEGORY	ROADWAY	STATIONS	415.0095 CONCRETE PAVEMENT 9 1/2-INCH SY	415.1095 CONCRETE PAVEMENT HES 9 1/2-INCH SY	416.1010 CONCRETE SURFACE DRAINS CY	416.0160 CONCRETE DRIVEWAY 6-INCH SY	415.0210 CONCRETE PAVEMENT GAPS EACH	602.2400 CONCRETE SAFETY ISLANDS SF	620.0300 CONCRETE MEDIAN SLOPED NOSE SF	SPV.0090.010 CONCRETE BARRIER PAN REINFORCED 42-INCH LF
1000	EAST FRONTAGE ROAD SOUTH	3031+00 - 3056+00	400	--	--	--	--	517	50	--
	EAST FRONTAGE ROAD NORTH	5052+00 - 5079+50	3,110	770	--	--	2	517	340	142
	MICHEL COURT	10+41 - 17+57	--	--	0.9	90	--	--	--	--
	TOTALS		3,510	770	0.9	90	2	1,034	390	142

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BASE AGGREGATE ITEMS

CATEGORY	ROADWAY	STATION	STATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	SPV.0195.002 BASE AGGREGATE DENSE 1 1/4-INCH SPECIAL TON	SPV.0195.006 SELECT SUBBASE TON
1000	CTH K	47+42 -	57+36	35	1,420	--
	EAST FRONTAGE ROAD SOUTH	3031+00 -	3056+00	505	12,340	6,520
	EAST FRONTAGE ROAD NORTH	5052+00 -	5079+50	515	13,340	6,610
	MICHEL COURT	10+41 -	17+57	650	2,015	--
	SE EXISTING RAMP	1039+00 -	1051+25	100	3,685	--
	TOTALS			1,805	32,800	13,130

ASPHALTIC PAVEMENT ITEMS

CATEGORY	ROADWAY	STATION	STATION	455.0105 ASPHALTIC MATERIAL PG58-28 TON	455.0115 ASPHALTIC MATERIAL PG64-22 TON	455.0605 TACK COAT GAL	460.1101 HMA PAVEMENT TYPE E-1 TON	460.1103 HMA PAVEMENT TYPE E-3 TON	460.1110 HMA PAVMENT TYPE E-10 TON	460.2000 INCENTIVE DENSITY HMA PAVEMENT DOL	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	465.0315 ASPHALTIC FLUMES SY
1000	CTH K	113+00 -	124+00	20	--	30	--	340	--	220	--	--
	EAST FRONTAGE ROAD SOUTH	3031+00 -	3056+00	250	--	300	--	3,770	--	2,420	--	--
	EAST FRONTAGE ROAD NORTH	5052+00 -	5079+50	200	--	270	--	3,450	--	2,210	60	--
	MICHEL COURT	10+41 -	17+57	60	--	90	980	--	--	630	300	6
	SE EXISTING RAMP	1039+00 -	1051+25	80	30	220	--	--	1,800	1,160	--	--
	UNDISTRIBUTED			--	--	--	--	--	--	--	--	--
	TOTALS			610	30	910	980	7,560	1,800	6,640	360	6

REPLACED WITH
REVISED SHEET 124
5-16-2013

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REMOVE AND SALVAGE RAMP GATE

CATEGORY	ROADWAY	LOCATION	204.0195 REMOVING CONCRETE BASES EACH	SPV.0060.005 SALVAGING EXISTING RAMP GATE SYSTEM EACH
1000	EXISTING EAST FRONTAGE ROAD NORTH AND I94 ON RAMP			
		1065+93	1	1
	TOTAL		1	1

CONCRETE ITEMS

CATEGORY	ROADWAY	STATIONS	415.0095 CONCRETE PAVEMENT 9 1/2-INCH SY	415.1095 CONCRETE PAVEMENT HES 9 1/2-INCH SY	416.1010 CONCRETE SURFACE DRAINS CY	416.0160 CONCRETE DRIVEWAY 6-INCH SY	602.0410 CONCRETE SIDEWALK 5-INCH SF	602.2400 CONCRETE SAFETY ISLANDS SF	620.0300 CONCRETE MEDIAN SLOPED NOSE SF	SPV.0090.010 CONCRETE BARRIER PAN REINFORCED 42-INCH LF
1000	EAST FRONTAGE ROAD SOUTH									
		3031+00 - 3056+00	400	--	--	--	--	517	50	--
	EAST FRONTAGE ROAD NORTH									
		5052+00 - 5079+50	3,260	770	--	--	3,500	517	355	142
	MICHEL COURT									
		10+41 - 17+57	--	--	0.9	90	--	--	--	--
	TOTALS		3,660	770	0.9	90	3,500	1,034	405	142

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BASE AGGREGATE ITEMS

CATEGORY	ROADWAY	STATION	STATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	SPV.0195.002 BASE AGGREGATE DENSE 1 1/4-INCH SPECIAL TON	SPV.0195.006 SELECT SUBBASE TON
1000	CTH K					
		47+42 -	57+36	35	1,420	--
	EAST FRONTAGE ROAD SOUTH					
		3031+00 -	3056+00	505	12,340	6,520
	EAST FRONTAGE ROAD NORTH					
		5052+00 -	5079+50	515	14,005	7,030
	MICHEL COURT					
		10+41 -	17+57	650	2,015	--
	SE EXISTING RAMP					
		1039+00 -	1051+25	100	3,685	--
	TOTALS			1,805	33,465	13,550

ASPHALTIC PAVEMENT ITEMS

CATEGORY	ROADWAY	STATION	STATION	455.0105 ASPHALTIC MATERIAL PG58-28 TON	455.0115 ASPHALTIC MATERIAL PG64-22 TON	455.0605 TACK COAT GAL	460.1101 HMA PAVEMENT TYPE E-1 TON	460.1103 HMA PAVEMENT TYPE E-3 TON	460.1110 HMA PAVMENT TYPE E-10 TON	460.2000 INCENTIVE DENSITY HMA PAVEMENT DOL	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	465.0315 ASPHALTIC FLUMES SY
1000	CTH K											
		113+00 -	124+00	20	--	30	--	340	--	220	--	--
	EAST FRONTAGE ROAD SOUTH											
		3031+00 -	3056+00	250	--	300	--	3,770	--	2,420	--	--
	EAST FRONTAGE ROAD NORTH											
		5052+00 -	5079+50	200	--	280	--	3,580	--	2,300	60	--
	MICHEL COURT											
		10+41 -	17+57	60	--	90	980	--	--	630	300	6
	SE EXISTING RAMP											
		1039+00 -	1051+25	80	30	220	--	--	1,800	1,160	--	--
	UNDISTRIBUTED			--	--	--	--	--	--	--	--	--
	TOTALS			610	30	920	980	7,690	1,800	6,730	360	6

3

CULVERTS

CATEGORY							1000	1000	1000	1000		1000	1000	1000	1000	1000	6100		
							**				*						**	*	
							520.8000	521.0118	521.0124	521.0728		521.1018	521.1024	521.1228	522.0130	522.1030	633.5200	**	
							CONCRETE COLLARS	CULVERT PIPE CORRUGATED STEEL		PIPE ARCH CORRUGATED STEEL	STEEL	APRON ENDWALL FOR CULVERT PIPE STEEL		PIPE ARCH STEEL	CLASS III	APRON ENDWALL FOR CULVERT PIPE REINFORCED CONCRETE	MARKERS CULVERT END	JOINT TIES	
INLET STATION	INLET OFFSET	INLET ELEVATION	DISCH STATION	DISCH OFFSET	DISCH ELEVATION	SLOPE	FOR PIPE EACH	18-INCH LF	24-INCH LF	28X20-INCH LF	THICKNESS IN	18-INCH EACH	24-INCH EACH	28X20-INCH EACH	30-INCH LF	30-INCH EACH	EACH	EACH	COMMENTS
48+88.4	30.5' RT	770.09	48+88.4	18.5' RT	EXISTING	0.68%	1	---	12	---	0.064	---	1	---	---	---	1	---	EXTEND EXISTING PIPE
3050+30.0	72.0' LT	761.33	3050+00.0	49.8' RT	759.87	1.17%	---	---	---	---	---	---	---	---	125	2	2	12	
5052+50.6	98.6' LT	767.71	5052+28.4	1.3' LT	767.43	0.28%	---	---	---	100	0.064	---	---	2	---	---	2	---	
5074+00.0	40.9' RT	752.96	5074+00.0	46.1' LT	752.69	0.31%	---	---	---	---	---	---	---	---	87	2	2	12	
SIDE ROADS AND PRIVATE ENTRANCES																			
3032+05.4	41.7' RT	748.33	3031+46.4	41.7' RT	746.92	2.39%	---	---	59	---	0.064	---	2	---	---	---	---	---	
3039+12.4	40.75' RT	768.58	3038+70.4	40.75' RT	768.35	0.55%	---	42	---	---	0.064	2	---	---	---	---	---	---	
5069+08.0	35.5' LT	769.61	5069+50.0	35.5' LT	769.19	1.00%	---	42	---	---	0.064	2	---	---	---	---	---	---	
TOTAL							1	84	71	100		4	3	2	212	4	7	24	

* FOR INFORMATION ONLY

**ADDITIONAL QUANTITIES SHOWN ELSEWHERE - SEE "STORM SEWER" TABLES

1. STATIONS AND OFFSETS ARE TO THE END OF PIPE. FIELD VERIFY CULVERT PIPE LOCATIONS AND ELEVATIONS PRIOR TO INSTALLATION.
2. PIPE LENGTHS DO NOT INCLUDE LAYING LENGTH OF ENDWALLS.
3. JOINT TIES FOR CONCRETE PIPE SHALL BE PROVIDED AT ALL REINFORCED CONCRETE APRON ENDWALL LOCATIONS. APRON ENDWALLS SHALL BE TIED FOR THE LAST TWO JOINTS AT PIPE ENDS. THE COST OF THESE TIES SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE REINFORCED CONCRETE PIPE.

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CONCRETE CURB & GUTTER ITEMS

CATEGORY	ROADWAY	STATION	STATION	601.0409 CONCRETE CURB & GUTTER 30-INCH TYPE A LF	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	601.0557 CONCRETE CURB & GUTTER 6-INCH SLOPED TYPE D LF
1000	EAST FRONTAGE ROAD SOUTH					
		3045+72 -	3052+35	--	1,150	--
	EAST FRONTAGE ROAD NORTH					
		5053+50 -	5079+50	1,065	1,310	293
	MICHEL COURT					
		10+00 -	17+57	--	1,050	--
	TOTALS			1,065	3,510	293

DRAIN TILE

CATEGORY	ROADWAY	608.0512 STORM SEWER PIPE REINFORCED CONCRETE CLASS V 12-INCH LF	SPV.0200.001 MANHOLES 4 FT DIAMETER SPECIAL VF	611.0535 MANHOLE COVERS TYPE J-SPECIAL EACH	612.0206 PIPE UNDERDRAIN UNPERFORATED 6-INCH LF	612.0208 8-INCH LF	612.0210 10-INCH LF	612.0212 12-INCH LF	612.0700 DRAIN TILE EXPLORATION LF
1000	EAST FRONTAGE ROAD NORTH								
	UNDISTRIBUTED	400	200	10	500	200	200	200	2000
	MICHEL COURT								
	SEPTIC SYSTEM FIELDS 12+00-17+00	200	50	2	50	---	---	---	500
	TOTALS	600	250	12	550	200	200	200	2500

3

FENCING ITEMS

CATEGORY	ROADWAY	616.0100.001 FENCE WOVEN WIRE 4-FT LF	616.0700.S FENCE SAFETY LF
6100	EAST FRONTAGE ROAD SOUTH		
	3031+00 - 1054+69SE	2,400	2,400
	EAST FRONTAGE ROAD NORTH		
	1056+15SE - 5075+50	2,370	2,370
	TOTALS	4,770	4,770

BEAM GUARD ITEMS

CATEGORY	ROADWAY	LOCATION	614.2300 MGS GUARDRAIL 3 LF	614.2500 MGS THRIE BEAM TRANSITION LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH
1000	EAST FRONTAGE ROAD				
		5077+38 - 5078+08	13	39	1
		TOTALS	13	39	1

REPLACED WITH
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2-1-2013

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CONCRETE CURB & GUTTER ITEMS

CATEGORY	ROADWAY	STATION	STATION	601.0409 CONCRETE CURB & GUTTER 30-INCH TYPE A LF	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	601.0557 CONCRETE CURB & GUTTER 6-INCH SLOPED TYPE D LF
1000	EAST FRONTAGE ROAD SOUTH	3045+72	3052+35	--	1,150	--
	EAST FRONTAGE ROAD NORTH	5053+50	5079+50	1,065	1,460	293
	MICHEL COURT	10+00	17+57	--	1,050	--
	TOTALS			1,065	3,660	293

DRAIN TILE

CATEGORY	ROADWAY	608.0512 STORM SEWER PIPE REINFORCED CONCRETE CLASS V 12-INCH LF	SPV.0200.001 MANHOLES 4 FT DIAMETER SPECIAL VF	611.0535 MANHOLE COVERS TYPE J-SPECIAL EACH	612.0206 PIPE UNDERDRAIN UNPERFORATED 6-INCH LF	612.0208 8-INCH LF	612.0210 10-INCH LF	612.0212 12-INCH LF	612.0700 DRAIN TILE EXPLORATION LF
1000	EAST FRONTAGE ROAD NORTH UNDISTRIBUTED	400	200	10	500	200	200	200	2000
	MICHEL COURT SEPTIC SYSTEM FIELDS 12+00-17+00	200	50	2	50	---	---	---	500
	TOTALS	600	250	12	550	200	200	200	2500

3

FENCING ITEMS

CATEGORY	ROADWAY	616.0100.001 FENCE WOVEN WIRE 4-FT LF	616.0700.S FENCE SAFETY LF
6100	EAST FRONTAGE ROAD SOUTH 3031+00 - 1054+69SE	2,400	2,400
	EAST FRONTAGE ROAD NORTH 1056+15SE - 5075+50	2,370	2,370
	TOTALS	4,770	4,770

BEAM GUARD ITEMS

CATEGORY	ROADWAY	LOCATION	614.2300 MGS GUARDRAIL 3 LF	614.2500 MGS THRIE BEAM TRANSITION LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH
1000	EAST FRONTAGE ROAD	5077+38 - 5078+08	13	39	1
		TOTALS	13	39	1

REPLACED WITH
REVISED SHEET 126
5-16-2013

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	MISCELLANEOUS QUANTITIES	~~REVISED SHEET 126~~	E

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CONCRETE CURB & GUTTER ITEMS

CATEGORY	ROADWAY	STATION	STATION	601.0409 CONCRETE CURB & GUTTER 30-INCH TYPE A LF	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	601.0557 CONCRETE CURB & GUTTER 6-INCH SLOPED TYPE D LF
1000	EAST FRONTAGE ROAD SOUTH					
		3045+72	- 3052+35	--	1,150	--
	EAST FRONTAGE ROAD NORTH					
		5053+50	- 5079+50	1,160	1,880	293
	MICHEL COURT					
		10+00	- 17+57	--	1,050	--
	TOTALS			1,160	4,080	293

DRAIN TILE

CATEGORY	ROADWAY	608.0512 STORM SEWER PIPE REINFORCED CONCRETE CLASS V 12-INCH LF	SPV.0200.001 MANHOLES 4 FT DIAMETER SPECIAL VF	611.0535 MANHOLE COVERS TYPE J-SPECIAL EACH	612.0206 PIPE UNDERDRAIN UNPERFORATED 6-INCH LF	612.0208 PIPE UNDERDRAIN UNPERFORATED 8-INCH LF	612.0210 PIPE UNDERDRAIN UNPERFORATED 10-INCH LF	612.0212 PIPE UNDERDRAIN UNPERFORATED 12-INCH LF	612.0700 DRAIN TILE EXPLORATION LF
1000	EAST FRONTAGE ROAD NORTH								
	UNDISTRIBUTED	400	200	10	500	200	200	200	2000
	MICHEL COURT								
	SEPTIC SYSTEM FIELDS 12+00-17+00	200	50	2	50	---	---	---	500
	TOTALS	600	250	12	550	200	200	200	2500

3

FENCING ITEMS

CATEGORY	ROADWAY		616.0100.001 FENCE WOVEN WIRE 4-FT LF	616.0700.S FENCE SAFETY LF
6100	EAST FRONTAGE ROAD SOUTH			
	3031+00	- 1054+69SE	2,400	2,400
	EAST FRONTAGE ROAD NORTH			
	1056+15SE	- 5075+50	2,370	2,370
	TOTALS		4,770	4,770

BEAM GUARD ITEMS

CATEGORY	ROADWAY	LOCATION	614.2300 MGS GUARDRAIL 3 LF	614.2500 MGS THRIE BEAM TRANSITION LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH
1000	EAST FRONTAGE ROAD				
		5077+38 - 5078+08	13	39	1
		TOTALS	13	39	1

STORM SEWER

CATEGORY			1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000			
STRUCTURE NUMBER	STATION	OFFSET	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3220 INLETS 2X2 FT EACH	611.3225 INLETS 2X2 FT EACH	611.3230 INLETS 2X3 FT EACH	611.3902 INLETS MEDIAN 2 GRATE EACH	611.0535 MANHOLE COVERS TYPE J-S EACH	611.0606 INLET COVERS TYPE B EACH	611.0624 INLET COVERS TYPE H EACH	611.0642 INLET COVERS TYPE MS EACH	611.0654 INLET COVERS TYPE V EACH	520.8000 CONCRETE COLLARS FOR PIPE EACH **	SPV.0060.003 COVER PLATE LEFT IN-PLACE EACH	RIM OR FLANGE ELEV	STR DEPTH FEET	COMMENTS
301A	3049+00.0	1.5' LT	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	772.06	2.6	---
301B	3049+00.0	20.2' LT	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	772.03	3.1	---
301C	3049+00.0	49.7' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
302A	3052+37.0	42.5' LT	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1	769.55	2.6	SEE NOTE 6
302B	3052+27.0	42.5' LT	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	769.48	2.6	---
302C	3052+37.0	1.5' LT	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1	769.72	3.2	SEE NOTE 6
302D	3052+00.0	15.5' LT	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	769.19	2.5	---
302E	3052+27.0	1.5' LT	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1	769.72	3.5	SEE NOTE 6
302F	3052+27.0	32.5' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
304A	1044+50.0	20.3' LT	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	777.19	2.1	---
304B	1044+50.0	16.1' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
305A	1040+98.9	30.1' RT	---	---	---	---	---	---	---	1	---	---	---	2	---	---	---	766.74	3.3	SEE NOTE 4
305B	1040+97.5	18.3' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	SEE NOTE 4
501B	5054+88.9	42.5' LT	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1	770.58	3.5	SEE NOTE 6
501C	5055+00.0	74.5' LT	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	769.91	2.9	---
501	5055+00.0	65.0' LT	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	770.07	3.1	---
502A	5058+17.5	74.0' LT	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	768.18	2.1	---
502B	5058+07.5	74.0' LT	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	768.18	2.4	---
502	5058+07.5	65' LT	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	768.34	2.9	---
503A	5057+25.0	13.5' LT	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	769.51	2.9	---
503B	5057+50.0	42.5' LT	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	768.84	2.4	---
503C	5057+60.0	40.6' LT	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	768.84	2.4	---
503D	5058+75.0	2.3' LT	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	769.93	3.8	---
503E	5058+65.0	4.5' LT	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	769.78	3.7	---
503F	5058+75.0	41.9' LT	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	768.88	3.0	---
503G	5058+65.0	39.7' LT	---	1	---	---	---	---	---	---	---	---	1	---	---	---	---	768.88	3.5	SEE NOTE 5
503	5058+50.0	65' LT	---	---	1	---	---	---	---	---	1	---	---	---	---	---	---	768.40	3.2	---
504	5060+19.0	105.0' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
505A	5061+00.0	73.8' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
505B	5061+00.0	49.1' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
506A	5061+16.7	134.2' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
506B	5061+50.0	177.0' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TOTALS			2	2	1	4	1	2	10	1	3	1	12	2	2	1	4			

1. RIM ELEVATIONS ARE GIVEN AT THE FLANGE LINE FOR INLET GRATES OR THE CENTER OF THE MANHOLE STRUCTURE FOR MANHOLES.
2. STATIONS AND OFFSETS ARE TO THE CENTER OF STRUCTURES OR TO THE END OF PIPE WHERE THERE IS AN ENDWALL. (DOES NOT INCLUE RCAEW)
3. STR DEPTH = RIM ELEV - INV - CASTING HEIGHT - ADJUSTMENT
   CASTING HEIGHT = 9" FOR TYPE J COVERS; 6" FOR TYPE H COVERS; 10" FOR TYPE V AND B COVERS
   ADJUSTMENT = 4" TYPICAL (NO ADJUSTMENT FOR TYPE MEDIAN INLETS OR AS NOTED IN THE REMARKS COLUMN)
4. FIELD VERIFY PIPE AND STRUCTURE LOCATIONS AND ELEVATIONS PRIOR TO ORDERING MATERIALS.
5. FLAT TOP SLAB WITH CENTERED 36 3/16 X 24 1/4-INCH RECTANGULAR OPENING REQUIRED
6. STRUCTURE DEPTH CALCULATED ASSUMING A TYPE H INLET COVER AND 4 INCHES OF ADJUSTING RINGS TO BE INSTALLED UNDER CONTRACT ID 1030-11-71.
   RIM ELEVATIONS ARE TO FUTURE CASTING

** ADDITIONAL QUANTITIES SHOWN ELSEWHERE-SEE CULVERT TABLE

REPLACED WITH
REVISED SHEET 127
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ALL ITEMS CATEGORY 0100 UNLESS NOTED

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STORM SEWER

CATEGORY			1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000			
STRUCTURE NUMBER	STATION	OFFSET	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3220 INLETS 2X2 FT EACH	611.3225 INLETS 2X2 FT EACH	611.3230 INLETS 2X3 FT EACH	611.3902 INLETS MEDIAN 2 GRATE EACH	611.0535 MANHOLE COVERS TYPE J-S EACH	611.0606 INLET COVERS TYPE B EACH	611.0624 INLET COVERS TYPE H EACH	611.0642 INLET COVERS TYPE MS EACH	611.0654 INLET COVERS TYPE V EACH	520.8000 ** CONCRETE COLLARS FOR PIPE EACH	SPV.0060.003 COVER PLATE LEFT IN-PLACE EACH	RIM OR FLANGE ELEV	STR DEPTH FEET	COMMENTS
301A	3049+00.0	1.5' LT	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	772.06	2.6	---
301B	3049+00.0	20.2' LT	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	772.03	3.1	---
301C	3049+00.0	49.7' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
302A	3052+37.0	42.5' LT	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1	769.55	2.6	SEE NOTE 6
302B	3052+27.0	42.5' LT	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	769.48	2.6	---
302C	3052+37.0	1.5' LT	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1	769.72	3.2	SEE NOTE 6
302D	3052+00.0	15.5' LT	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	769.19	2.5	---
302E	3052+27.0	1.5' LT	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1	769.72	3.5	SEE NOTE 6
302F	3052+27.0	32.5' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
304A	1044+50.0	20.3' LT	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	777.19	2.1	---
304B	1044+50.0	16.1' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
305A	1040+98.9	30.1' RT	---	---	---	---	---	---	---	1	---	---	---	2	---	---	---	766.74	3.3	SEE NOTE 4
305B	1040+97.5	18.3' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	SEE NOTE 4
501A	**5055+50.2**	**1.5' LT**	**---**	**---**	**---**	**---**	**---**	**---**	**1**	**---**	**---**	**---**	**1**	**---**	**---**	**---**	**---**	**770.00**	**2.5**	**---**
501B	**5055+40.0**	**16.9' LT**	**---**	**---**	**---**	**1**	**---**	**---**	**---**	**---**	**---**	**---**	**1**	**---**	**---**	**---**	**---**	**770.35**	**3.0**	**---**
501C	**5054+88.9**	**26.5' LT**	**---**	**---**	**---**	**1**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**1**	**770.87**	**3.7**	**---**
501D	5054+88.9	42.5' LT	---	---	---	**1**	---	---	---	---	---	---	---	---	---	---	1	770.58	3.5	SEE NOTE 6
501E	5055+00.0	74.5' LT	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	769.91	2.9	---
501	5055+00.0	65.0' LT	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	770.07	3.1	---
502A	5058+17.5	74.0' LT	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	768.18	2.1	---
502B	5058+07.5	74.0' LT	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	768.18	2.4	---
502	5058+07.5	65' LT	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	768.34	2.9	---
503A	5057+25.0	13.5' LT	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	769.51	2.9	---
503B	5057+50.0	42.5' LT	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	768.84	2.4	---
503C	5057+60.0	40.6' LT	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	768.84	2.4	---
503D	5058+75.0	2.3' LT	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	769.93	3.8	---
503E	5058+65.0	4.5' LT	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	769.78	3.7	---
503F	5058+75.0	41.9' LT	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	768.88	3.0	---
503G	5058+65.0	39.7' LT	---	1	---	---	---	---	---	---	---	---	1	---	---	---	---	768.88	3.5	SEE NOTE 5
503	5058+50.0	65' LT	---	---	1	---	---	---	---	---	1	---	---	---	---	---	---	768.40	3.2	---
504	5060+19.0	105.0' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
505A	5061+00.0	73.8' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
505B	5061+00.0	49.1' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
506A	5061+16.7	134.2' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
506B	5061+50.0	177.0' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TOTALS			2	2	1	**7**	1	2	10	1	3	1	**14**	2	2	1	**5**			

1. RIM ELEVATIONS ARE GIVEN AT THE FLANGE LINE FOR INLET GRATES OR THE CENTER OF THE MANHOLE STRUCTURE FOR MANHOLES.
2. STATIONS AND OFFSETS ARE TO THE CENTER OF STRUCTURES OR TO THE END OF PIPE WHERE THERE IS AN ENDWALL. (DOES NOT INCLUE RCAEW)
3. STR DEPTH = RIM ELEV - INV - CASTING HEIGHT - ADJUSTMENT
   CASTING HEIGHT = 9" FOR TYPE J COVERS; 6" FOR TYPE H COVERS; 10" FOR TYPE V AND B COVERS
   ADJUSTMENT = 4" TYPICAL (NO ADJUSTMENT FOR TYPE MEDIAN INLETS OR AS NOTED IN THE REMARKS COLUMN)
4. FIELD VERIFY PIPE AND STRUCTURE LOCATIONS AND ELEVATIONS PRIOR TO ORDERING MATERIALS.
5. FLAT TOP SLAB WITH CENTERED 36 3/16 X 24 1/4-INCH RECTANGULAR OPENING REQUIRED
6. STRUCTURE DEPTH CALCULATED ASSUMING A TYPE H INLET COVER AND 4 INCHES OF ADJUSTING RINGS TO BE INSTALLED UNDER CONTRACT ID 1030-11-71.
   RIM ELEVATIONS ARE TO FUTURE CASTING

** ADDITIONAL QUANTITIES SHOWN ELSEWHERE-SEE CULVERT TABLE

CONTINUED ON NEXT PAGE

REPLACED WITH
REVISED SHEET 127
5-16-2013

ALL ITEMS CATEGORY 0100 UNLESS NOTED

Plan Revision
1030-11-70
Revised Page 127
May 16, 2013

CATEGORY			1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000			
STRUCTURE NUMBER	STATION	OFFSET	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3220 INLETS 2X2 FT EACH	611.3225 INLETS 2X2 FT EACH	611.3230 INLETS 2X3 FT EACH	611.3902 INLETS MEDIAN 2 GRATE EACH	611.0535 MANHOLE COVERS TYPE J-S EACH	611.0606 INLET COVERS TYPE B EACH	611.0624 INLET COVERS TYPE H EACH	611.0642 INLET COVERS TYPE MS EACH	611.0654 INLET COVERS TYPE V EACH	** 520.8000 CONCRETE COLLARS FOR PIPE EACH	SPV.0060.003 COVER PLATE LEFT IN-PLACE EACH	RIM OR FLANGE ELEV	STR DEPTH FEET	COMMENTS
301A	3049+00.0	1.5' LT	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	772.06	2.6	---
301B	3049+00.0	20.2' LT	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	772.03	3.1	---
301C	3049+00.0	49.7' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
302A	3052+37.0	42.5' LT	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1	769.55	2.6	SEE NOTE 6
302B	3052+27.0	42.5' LT	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	769.48	2.6	---
302C	3052+37.0	1.5' LT	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1	769.72	3.2	SEE NOTE 6
302D	3052+00.0	15.5' LT	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	769.19	2.5	---
302E	3052+27.0	1.5' LT	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1	769.72	3.5	SEE NOTE 6
302F	3052+27.0	32.5' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
304A	1044+50.0	20.3' LT	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	777.19	2.1	---
304B	1044+50.0	16.1' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
305A	1040+98.9	30.1' RT	---	---	---	---	---	---	---	1	---	---	---	2	---	---	---	766.74	3.3	SEE NOTE 4
305B	1040+97.5	18.3' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	SEE NOTE 4
501A	5055+50.2	1.5' LT	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	770.00	2.5	---
501B	5055+40.0	16.9' LT	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	770.35	3.0	---
501C	5054+88.9	26.5' LT	---	---	---	1	---	---	---	---	---	---	---	---	---	---	1	770.87	3.7	---
501D	5054+88.9	42.5' LT	---	---	---	1	---	---	---	---	---	---	---	---	---	---	1	770.58	3.5	SEE NOTE 6
501E	5055+00.0	74.5' LT	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	769.91	2.9	---
501	5055+00.0	65.0' LT	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	770.07	3.1	---
502A	5058+17.5	74.0' LT	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	768.18	2.1	---
502B	5058+07.5	74.0' LT	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	768.18	2.4	---
502	5058+07.5	65' LT	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	768.34	2.9	---
503A	**5057+65.6**	**22.0' LT**	---	---	---	**1**	---	---	---	---	---	---	**1**	---	---	---	---	**769.25**	**2.9**	**SEE NOTE 7**
503B	**5057+50.0**	**42.2' LT**	---	---	---	**1**	---	---	---	---	---	---	**1**	---	---	---	---	**768.84**	**2.4**	**SEE NOTE 8**
503C	**5057+60.0**	**40.6' LT**	---	---	---	**1**	---	---	---	---	---	---	**1**	---	---	---	---	**768.84**	**2.4**	**SEE NOTE 8**
503D	**5058+86.4**	**1.5' LT**	---	---	---	---	---	---	**1**	---	---	---	**1**	---	---	---	---	**770.00**	**3.8**	**SEE NOTE 8**
503E	**5058+86.5**	**8.5' LT**	---	---	---	**1**	---	---	---	---	---	---	**1**	---	---	---	---	**769.77**	**3.6**	**NEW INLET NEEDED**
503F	**5058+65.0**	**23.3' LT**	---	---	---	**1**	---	---	---	---	---	---	**1**	---	---	---	---	**769.38**	**3.7**	**NEW INLET NEEDED**
503G	**5058+54.9**	**23.2' LT**	---	---	---	---	---	---	**1**	---	---	---	**1**	---	---	---	---	**769.33**	**3.7**	**SEE NOTE 8**
503H	**5058+65.0**	**42.5' LT**	---	---	---	---	---	---	**1**	---	---	---	**1**	---	---	---	---	**768.86**	**3.0**	**SEE NOTE 8**
503I	**5058+54.9**	**42.5' LT**	---	**1**	---	---	---	---	---	---	---	---	**1**	---	---	---	---	**768.83**	**3.5**	**SEE NOTES 5, 8**
503	5058+50.0	65' LT	---	---	1	---	---	---	---	---	1	---	---	---	---	---	---	768.40	3.2	**SEE NOTE 9**
504	5060+19.0	105.0' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
505A	5061+00.0	73.8' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
505B	5061+00.0	49.1' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
506A	5061+16.7	134.2' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
506B	5061+50.0	177.0' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
306A	11+12.6	19.5' LT	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	774.50	3.2	SEE NOTE 5
306B	11+12.6	19.5' RT	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	774.50	3.4	SEE NOTE 5
306C	3045+46.8	67.0' LT	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TOTALS			2	2	1	**10**	1	2	11	1	3	1	**18**	2	2	1	5			

1. RIM ELEVATIONS ARE GIVEN AT THE FLANGE LINE FOR INLET GRATES OR THE CENTER OF THE MANHOLE STRUCTURE FOR MANHOLES.
2. STATIONS AND OFFSETS ARE TO THE CENTER OF STRUCTURES OR TO THE END OF PIPE WHERE THERE IS AN ENDWALL. (DOES NOT INCLUE RCAEW)
3. STR DEPTH = RIM ELEV - INV - CASTING HEIGHT - ADJUSTMENT
   CASTING HEIGHT = 9" FOR TYPE J COVERS; 6" FOR TYPE H COVERS; 10" FOR TYPE V AND B COVERS
   ADJUSTMENT = 4" TYPICAL (NO ADJUSTMENT FOR TYPE MEDIAN INLETS OR AS NOTED IN THE REMARKS COLUMN)
4. FIELD VERIFY PIPE AND STRUCTURE LOCATIONS AND ELEVATIONS PRIOR TO ORDERING MATERIALS.
5. FLAT TOP SLAB WITH CENTERED 36 3/16 X 24 1/4-INCH RECTANGULAR OPENING REQUIRED
6. STRUCTURE DEPTH CALCULATED ASSUMING A TYPE H INLET COVER AND 4 INCHES OF ADJUSTING RINGS TO BE INSTALLED UNDER CONTRACT ID 1030-11-71.
   RIM ELEVATIONS ARE TO FUTURE CASTING
7. **USE ORIGINAL STRUCTURE IF PIPE OPENINGS CAN BE RELOCATED TO ACCOMMODATE REVISED STORM SEWER LAYOUT**
   ADJUSTMENT = 2" TO ALLOW FOR USING STRUCTURE ALREADY MANUFACTURED
8. **USE ORIGINAL STRUCTURE IF PIPE OPENINGS CAN BE RELOCATED TO ACCOMMODATE REVISED STORM SEWER LAYOUT**
9. **OPENING FOR PIPE CONNECTION AT MH 503 MAY NEED TO BE ADJUSTED TO ACCOMMODATE REVISED STORM SEWER LAYOUT**

** ADDITIONAL QUANTITIES SHOWN ELSEWHERE-SEE CULVERT TABLE

CONTINUED ON NEXT PAGE

REVISED MAY 15, 2013
R.A. SMITH NATIONAL

ALL ITEMS CATEGORY 0100 UNLESS NOTED

STORM SEWER (CONT.)

CATEGORY					1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	6100		
															**	*	
					608.0412	608.0415	608.0418	608.0430	610.0419	522.1012	522.1015	523.0519	SPV.0060.014	SPV.0060.015	633.5200	**	
					STORM SEWER PIPE REINFORCED CONCRETE CLASS IV					APRON ENDWALL FOR CULVERT PIPE REINFORCED CONCRETE			BOX SPILLWAY	BOX SPILLWAY	MARKERS CULVERT END	JOINT TIES	
FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE	12-INCH LF	15-INCH LF	18-INCH LF	30-INCH LF	HE 19X30-INCH LF	12-INCH EACH	15-INCH EACH	HE 19X30-INCH EACH	2'X2.5' EACH	2'X4' EACH	EACH	EACH	COMMENTS
301A	301B	768.61	768.05	2.99%	18.7	---	---	---	---	---	---	---	---	---	---	---	---
301B	301C	768.05	767.17	2.99%	29.5	---	---	---	---	---	---	---	---	---	---	---	---
301C	OUTLET	767.17	---	---	---	---	---	---	---	1	---	---	---	---	1	6	---
302A	302B	766.10	766.00	1.00%	9.9	---	---	---	---	---	---	---	---	---	---	---	---
302B	302E	766.00	765.59	1.00%	41.0	---	---	---	---	---	---	---	---	---	---	---	---
302C	302E	765.69	765.59	1.00%	10.0	---	---	---	---	---	---	---	---	---	---	---	---
302D	302E	765.89	765.59	1.00%	30.1	---	---	---	---	---	---	---	---	---	---	---	---
302E	302F	765.34	765.00	1.00%	---	34.0	---	---	---	---	---	---	---	---	---	---	---
302F	OUTLET	765.00	---	---	---	---	---	---	---	---	1	---	---	---	1	6	---
304A	304B	773.95	773.59	1.00%	36.4	---	---	---	---	---	---	---	---	---	---	---	---
304B	OUTLET	773.59	---	---	---	---	---	---	---	1	---	---	---	---	1	6	---
305A	305B	763.40	762.85	4.66%	---	---	---	11.8	---	---	---	---	---	---	---	---	SEE NOTE 4
305B	EXISTING	762.85	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SEE NOTE 4
501B	501	766.22	766.10	0.50%	25.1	---	---	---	---	---	---	---	---	---	---	---	---
501C	501	766.14	766.10	0.50%	9.5	---	---	---	---	---	---	---	---	---	---	---	---
501	502	765.85	764.62	0.40%	---	307.5	---	---	---	---	---	---	---	---	---	---	---
502A	502B	764.95	764.90	0.50%	10.0	---	---	---	---	---	---	---	---	---	---	---	---
502B	502	764.65	764.62	0.40%	---	9.0	---	---	---	---	---	---	---	---	---	---	---
502	503	764.37	764.24	0.30%	---	---	42.5	---	---	---	---	---	---	---	---	---	---
503A	503B	765.80	765.61	0.50%	38.3	---	---	---	---	---	---	---	---	---	---	---	---
503B	503C	765.61	765.56	0.50%	10.2	---	---	---	---	---	---	---	---	---	---	---	---
503C	503G	765.56	765.03	0.50%	105.0	---	---	---	---	---	---	---	---	---	---	---	---
503D	503E	765.26	765.21	0.50%	10.2	---	---	---	---	---	---	---	---	---	---	---	---
503E	503G	765.21	765.03	0.50%	35.3	---	---	---	---	---	---	---	---	---	---	---	---
503F	503G	765.08	765.03	0.50%	10.2	---	---	---	---	---	---	---	---	---	---	---	---
503G	503	764.53	764.24	1.00%	---	---	29.4	---	---	---	---	---	---	---	---	---	---
503	504	764.15	763.50	0.40%	---	---	---	---	163.6	---	---	---	---	---	---	---	---
504	OUTLET	763.50	---	---	---	---	---	---	---	---	---	1	---	---	1	6	---
505A	505B	764.74	764.02	0.59%	---	---	---	---	123.0	---	---	---	---	1	---	12	NE POND EMERGENCY OUTFALL
505B	OUTLET	764.02	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---
506A	506B	763.48	763.25	0.44%	52.0	---	---	---	---	---	---	---	1	---	---	12	NE POND OUTFALL
506B	OUTLET	763.25	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---
TOTALS					482	351	72	12	287	3	1	2	1	1	4	48	

1. STATIONS AND OFFSETS ARE TO THE CENTER OF STRUCTURES OR TO THE END OF PIPE WHERE THERE IS AN ENDWALL. PIPE LENGTHS ARE MEASURED TO THE CENTER OF STRUCTURE OR ENDWALL CONNECTION AND DO NOT INCLUDE THE LAYING LENGTH OF ENDWALLS
2. PIPE LENGTHS ARE MEASURED TO THE CENTER OF STRUCTURES.
3. JOINT TIES FOR CONCRETE PIPE SHALL BE PROVIDED AT ALL REINFORCED CONCRETE APRON ENDWALL LOCATIONS. APRON ENDWALLS SHALL BE TIED FOR THE LAST TWO JOINTS AT PIPE ENDS. THE COST OF THESE TIES SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE REINFORCED CONCRETE STORM SEWER PIPE.
4. FIELD VERIFY PIPE AND STRUCTURE LOCATIONS AND ELEVATIONS PRIOR TO ORDERING MATERIALS.

* FOR INFORMATION ONLY

** ADDITIONAL QUANTITIES SHOWN ELSEWHERE SEE CULVERT TABLE

REPLACED WITH
REVISED SHEET 128
2-1-2013

Plan Revision
1030-11-70
Revised Page 128
February 1, 2013

CATEGORY					1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	6100		
					608.0412	608.0415	608.0418	608.0430	610.0419	522.1012	522.1015	523.0519	SPV.0060.014	SPV.0060.015	** 633.5200	* **	
					STORM SEWER PIPE REINFORCED CONCRETE CLASS IV					APRON ENDWALL FOR CULVERT PIPE REINFORCED CONCRETE			BOX SPILLWAY	BOX SPILLWAY	MARKERS CULVERT END	JOINT TIES	
FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE	12-INCH LF	15-INCH LF	18-INCH LF	30-INCH LF	HE 19X30-INCH LF	12-INCH EACH	15-INCH EACH	HE 19X30-INCH EACH	2'X2.5' EACH	2'X4' EACH	EACH	EACH	COMMENTS
301A	301B	768.61	768.05	2.99%	18.7	---	---	---	---	---	---	---	---	---	---	---	---
301B	301C	768.05	767.17	2.99%	29.5	---	---	---	---	---	---	---	---	---	---	---	---
301C	OUTLET	767.17	---	---	---	---	---	---	---	1	---	---	---	---	1	6	---
302A	302B	766.10	766.00	1.00%	9.9	---	---	---	---	---	---	---	---	---	---	---	---
302B	302E	766.00	765.59	1.00%	41.0	---	---	---	---	---	---	---	---	---	---	---	---
302C	302E	765.69	765.59	1.00%	10.0	---	---	---	---	---	---	---	---	---	---	---	---
302D	302E	765.89	765.59	1.00%	30.1	---	---	---	---	---	---	---	---	---	---	---	---
302E	302F	765.34	765.00	1.00%	---	34.0	---	---	---	---	---	---	---	---	---	---	---
302F	OUTLET	765.00	---	---	---	---	---	---	---	---	1	---	---	---	1	6	---
304A	304B	773.95	773.59	1.00%	36.4	---	---	---	---	---	---	---	---	---	---	---	---
304B	OUTLET	773.59	---	---	---	---	---	---	---	1	---	---	---	---	1	6	---
305A	305B	763.40	762.85	4.66%	---	---	---	11.8	---	---	---	---	---	---	---	---	SEE NOTE 4
305B	EXISTING	762.85	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SEE NOTE 4
501A	**501B**	**766.65**	**766.56**	**0.50%**	**18.4**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	
501B	**501C**	**766.56**	**766.30**	**0.50%**	**52.0**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	
501C	**501D**	**766.30**	**766.22**	**0.50%**	**16.0**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	
501D	501	766.22	766.10	0.50%	25.1	---	---	---	---	---	---	---	---	---	---	---	---
501E	501	766.14	766.10	0.50%	9.5	---	---	---	---	---	---	---	---	---	---	---	---
501	502	765.85	764.62	0.40%	---	307.5	---	---	---	---	---	---	---	---	---	---	---
502A	502B	764.95	764.90	0.50%	10.0	---	---	---	---	---	---	---	---	---	---	---	---
502B	502	764.65	764.62	0.40%	---	9.0	---	---	---	---	---	---	---	---	---	---	---
502	503	764.37	764.24	0.30%	---	---	42.5	---	---	---	---	---	---	---	---	---	---
503A	503B	765.80	765.61	0.50%	38.3	---	---	---	---	---	---	---	---	---	---	---	---
503B	503C	765.61	765.56	0.50%	10.2	---	---	---	---	---	---	---	---	---	---	---	---
503C	503G	765.56	765.03	0.50%	105.0	---	---	---	---	---	---	---	---	---	---	---	---
503D	503E	765.26	765.21	0.50%	10.2	---	---	---	---	---	---	---	---	---	---	---	---
503E	503G	765.21	765.03	0.50%	35.3	---	---	---	---	---	---	---	---	---	---	---	---
503F	503G	765.08	765.03	0.50%	10.2	---	---	---	---	---	---	---	---	---	---	---	---
503G	503	764.53	764.24	1.00%	---	---	29.4	---	---	---	---	---	---	---	---	---	---
503	504	764.15	763.50	0.40%	---	---	---	---	163.6	---	---	---	---	---	---	---	---
504	OUTLET	763.50	---	---	---	---	---	---	---	---	---	1	---	---	1	6	---
505A	505B	764.74	764.02	0.59%	---	---	---	---	123.0	---	---	---	---	1	---	12	NE POND EMERGENCY OUTFALL
505B	OUTLET	764.02	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---
506A	506B	763.48	763.25	0.44%	52.0	---	---	---	---	---	---	---	1	---	---	12	NE POND OUTFALL
506B	OUTLET	763.25	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---
TOTALS					568	351	72	12	287	3	1	2	1	1	4	48	

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4. FIELD VERIFY PIPE AND STRUCTURE LOCATIONS AND ELEVATIONS PRIOR TO ORDERING MATERIALS.

* FOR INFORMATION ONLY

** ADDITIONAL QUANTITIES SHOWN ELSEWHERE SEE CULVERT TABLE

REPLACED WITH
REVISED SHEET 128
5-16-2013

Plan Revision
1030-11-70
Revised Page 128
May 16, 2013

CATEGORY					1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	6100		
															**	*	
					608.0412	608.0415	608.0418	608.0430	610.0419	522.1012	522.1015	523.0519	SPV.0060.014	SPV.0060.015	633.5200	**	
					STORM SEWER PIPE REINFORCED CONCRETE CLASS IV					APRON ENDWALL FOR CULVERT PIPE REINFORCED CONCRETE			BOX	BOX	MARKERS		
FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE	12-INCH LF	15-INCH LF	18-INCH LF	30-INCH LF	HE 19X30-INCH LF	12-INCH EACH	15-INCH EACH	HE 19X30-INCH EACH	SPILLWAY 2'X2.5' EACH	SPILLWAY 2'X4' EACH	CULVERT END EACH	JOINT TIES EACH	COMMENTS
301A	301B	768.61	768.05	2.99%	18.7	---	---	---	---	---	---	---	---	---	---	---	---
301B	301C	768.05	767.17	2.99%	29.5	---	---	---	---	---	---	---	---	---	---	---	---
301C	OUTLET	767.17	---	---	---	---	---	---	---	1	---	---	---	---	1	6	---
302A	302B	766.10	766.00	1.00%	9.9	---	---	---	---	---	---	---	---	---	---	---	---
302B	302E	766.00	765.59	1.00%	41.0	---	---	---	---	---	---	---	---	---	---	---	---
302C	302E	765.69	765.59	1.00%	10.0	---	---	---	---	---	---	---	---	---	---	---	---
302D	302E	765.89	765.59	1.00%	30.1	---	---	---	---	---	---	---	---	---	---	---	---
302E	302F	765.34	765.00	1.00%	---	34.0	---	---	---	---	---	---	---	---	---	---	---
302F	OUTLET	765.00	---	---	---	---	---	---	---	---	1	---	---	---	1	6	---
304A	304B	773.95	773.59	1.00%	36.4	---	---	---	---	---	---	---	---	---	---	---	---
304B	OUTLET	773.59	---	---	---	---	---	---	---	1	---	---	---	---	1	6	---
305A	305B	763.40	762.85	4.66%	---	---	---	11.8	---	---	---	---	---	---	---	---	SEE NOTE 4
305B	EXISTING	762.85	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SEE NOTE 4
501A	501B	766.65	766.56	0.50%	18.4	---	---	---	---	---	---	---	---	---	---	---	
501B	501C	766.56	766.30	0.50%	52.0	---	---	---	---	---	---	---	---	---	---	---	
501C	501D	766.30	766.22	0.50%	16.0	---	---	---	---	---	---	---	---	---	---	---	
501D	501	766.22	766.10	0.50%	25.1	---	---	---	---	---	---	---	---	---	---	---	---
501E	501	766.14	766.10	0.50%	9.5	---	---	---	---	---	---	---	---	---	---	---	---
501	502	765.85	764.62	0.40%	---	307.5	---	---	---	---	---	---	---	---	---	---	---
502A	502B	764.95	764.90	0.50%	10.0	---	---	---	---	---	---	---	---	---	---	---	---
502B	502	764.65	764.62	0.40%	---	9.0	---	---	---	---	---	---	---	---	---	---	---
502	503	764.37	764.24	0.30%	---	---	42.5	---	---	---	---	---	---	---	---	---	---
503A	**503C**	**765.68**	**765.58**	**0.50%**	**19.5**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**
503B	**503C**	**765.64**	**765.58**	**0.50%**	**10.1**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**
503C	**503I**	**765.58**	**764.97**	**0.65%**	**94.9**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**
503D	**503E**	**765.41**	**765.35**	**0.80%**	**7.0**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**
503E	**503F**	**765.35**	**765.14**	**0.80%**	**25.9**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**
503F	**503G**	**764.89**	**764.81**	**0.80%**	**---**	**10.0**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**
503G	**503I**	**764.81**	**764.72**	**0.50%**	**---**	**19.3**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**
503H	**503I**	**765.02**	**764.97**	**0.50%**	**10.0**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**
503I	**503**	**764.47**	**764.24**	**1.00%**	**---**	**---**	**23.0**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**
503	504	764.15	763.50	0.40%	---	---	---	---	163.6	---	---	---	---	---	---	---	---
504	OUTLET	763.50	---	---	---	---	---	---	---	---	---	1	---	---	1	6	---
505A	505B	764.74	764.02	0.59%	---	---	---	---	123.0	---	---	---	---	1	---	12	NE POND EMERGENCY OUTFALL
505B	OUTLET	764.02	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---
506A	506B	763.48	763.25	0.44%	52.0	---	---	---	---	---	---	---	1	---	---	12	NE POND OUTFALL
506B	OUTLET	763.25	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---
306A	306B	770.44	770.24	0.50%	---	39.0	---	---	---	---	---	---	---	---	---	---	---
306B	306C	770.24	769.91	0.50%	---	66.9	---	---	---	---	---	---	---	---	---	---	---
306C	OUTLET	769.91	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---
TOTALS					**526**	**486**	**66**	12	287	3	2	2	1	1	4	48	

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REVISED MAY 15, 2013
R.A. SMITH NATIONAL

EXPOSING EXISTING UTILITY

CATEGORY	LOCATION	SPV.0060.012 EXPOSING EXISTING UTILITIES EACH
1000	UNDISTRIBUTED	4
	TOTAL	4

DUST CONTROL SURFACE TREATMENT

CATEGORY	ROADWAY	623.0200 DUST CONTROL SURFACE TREATMENT SY
1000	EAST FRONTAGE ROAD SOUTH	3,110
	EAST FRONTAGE ROAD NORTH	4,450
	MICHEL COURT	1,240
	TOTAL	8,800

MAINTENANCE AND REPAIR OF HAUL ROADS

CATEGORY	ROADWAY	618.0100.012 EACH
1000	PROJECT 1030-11-70	1
	TOTAL	1

MOBILIZATION

CATEGORY	STAGE		619.1000 LS
1000	ALL	PROJECT ID 1030-11-70	0.2
	TOTAL		0.2

LANDMARK REFERENCE MONUMENTS

CATEGORY	STATION			621.0100 EACH
1000	EAST FRONTAGE ROAD			
	3040+74	73 LT	PI	1
	3046+10	C/L	PC	1
	3052+28	C/L	PT	1
	5058+59	CL	PC	1
	5067+45	C/L	PT	1
	5075+34	51 LT	PI	1
				6

WATER ITEMS

CATEGORY	1000	6100
ROADWAY	624.0100 WATER MGAL	631.0300 SOD WATER MGAL
CTH K	1	4
EAST FRONTAGE ROAD SOUTH	6	29
EAST FRONTAGE ROAD NORTH	5	107
MICHEL COURT	7	--
UNDISTRIBUTED	--	35
TOTALS	19	174

EROSION CONTROL ITEMS

CATEGORY	** 1000	6100	6100	6100	6100	6100	6100	6100	6100	6100	6100	6100	6100	6100	** 1000	6100	6100	1000
	606.0200	628.1104	628.1504	628.1520	628.1905	628.1910	628.2004	628.2027	628.7005	628.7015	628.7020	628.7504	628.7555	631.1100	645.0120	SPV.0060.030	SPV.0060.031	SPV.0180.002
						MOBILIZATIONS										SILT FENCE		
	RIPRAP	EROSION	SILT	SILT FENCE	MOBILIZATIONS EROSION	EMERGENCY EROSION	EROSION MAT CLASS I	EROSION MAT CLASS II	INLET PROTECTION	INLET PROTECTION	INLET PROTECTION	TEMPORARY DITCH	CULVERT PIPE	SOD EROSION	GEOTEXTILE FABRIC	DRAINAGE OUTLET, EROSION CONTROL	SILT FENCE DRAINAGE OUTLET,	GEOTEXTILE FABRIC
ROADWAY	MEDIUM CY	BALES EACH	FENCE LF	MAINTENANCE LF	CONTROL LF	CONTROL LF	TYPE B SY	TYPE C SY	TYPE A EACH	TYPE C EACH	TYPE D EACH	CHECKS LF	CHECKS EACH	CONTROL SY	TYPE HR SY	FILTER BAGS EACH	ROCK BAGS EACH	TYPE FF SY
EAST FRONTAGE ROAD SOUTH	100	30	700	700	2	2	8,000	825	6	2	1	700	4	100	200	1	---	---
EAST FRONTAGE ROAD NORTH	20	60	1,100	1,100	2	2	8,050	---	13	1	9	450	2	50	30	1	---	---
CTH K	---	---	---	---	2	2	350	---	---	---	---	70	2	25	---	---	---	---
RAMP SE	---	---	---	---	---	---	800	---	2	---	1	125	---	25	---	---	---	---
MICHEL COURT	---	---	600	600	---	---	---	---	---	---	---	---	---	50	---	---	---	---
DRAINAGE SWALE	---	---	---	---	---	---	650	---	---	---	---	100	---	---	---	---	---	---
UNDISTRIBUTED	30	100	600	600	1	1	4,300	210	6	1	4	340	2	70	60	---	5	480
TOTALS	150	190	3,000	3,000	7	7	22,150	1,035	27	4	15	1,785	10	320	290	2	5	480

**ADDITIONAL QUANTITIES SHOWN ELSEWHERE - SEE "STORM WATER QUALITY POND ITEMS" TABLE

NOTE: RIPRAP MEDIUM QUANTITY FOR THE TWO BOX SPILLWAYS SHOWN IN STORM WATER QUALITY POND ITEMS

ROCK BAGS

CATEGORY	LOCATION	628.7570 ROCK BAGS EACH
6100	UNDISTRIBUTED	25
	TOTAL	25

EROSION CONTROL FILTER BAGS

CATEGORY	6100 SPV.0060.09
ROADWAY	EACH
UNDISTRIBUTED	25
TOTALS	25

TRACKING PADS

CATEGORY	ROADWAY	628.7560 TRACKING PADS EACH
1000	EAST FRONTAGE ROAD	
	TRACKING PADS	7
	TOTALS	7

3

PERMANENT LEVEL SPREADER ITEMS

CATEGORY		1000	6100	1000
		606.0100	628.1920	645.0130
			CLEANING	GEOTEXTILE
		RIPRAP	SEDIMENT	FABRIC
		LIGHT	BASINS	TYPE R
ROADWAY	STATION	CY	CY	SY
EAST FRONTAGE ROAD SOUTH				
	3050+00, RT	20	2	60
TOTALS		20	2	60

3

RESTORATION ITEMS

CATEGORY			* 1000	6100	* 6100	* 6100	* 6100	6100	6100
			625.0500	627.0200	629.0210	630.0120	630.0160	630.0200	631.1000
			SALVAGED		FERTILIZER	SEEDING	SEEDING	SEEDING	SOD
			TOPSOIL	MULCHING	TYPE B	MIXTURE NO. 20	MIXTURE NO. 60	TEMPORARY	LAWN
ROADWAY	STATION	STATION	SY	SY	CWT	LB	LB	LB	SY
CTH K									
	113+00 -	124+00	2,190	2,190	2	90	--	45	--
EAST FRONTAGE ROAD SOUTH									
	3031+00 -	3056+00	22,880	21,650	16	660	20	330	1,230
EAST FRONTAGE ROAD NORTH									
	5052+00 -	5079+50	28,140	26,330	20	795	5	398	1,800
SE RAMP									
	1037+50 -	1051+13	7,260	7,260	6	250	--	125	--
MICHEL COURT									
	10+41 -	17+57	4,490	4,490	3	130	--	65	--
UNDISTRIBUTED			16,200	15,500	12	480	6	240	760
	TOTALS		81,160	77,420	58	2,405	31	1,203	3,790

* USE SEEDING MIXTURE NO. 60 FOR THE BOTTOM 1/3 OF THE EMBANKMENT SLOPES ADJACENT TO WETLAND AREAS. SEE TYPICAL SECTIONS.
ADDITIONAL QUANTITES SHOWN ELSWHERE SEE STORMWATER QUALITY POND ITEMS TABLE

STORMWATER QUALITY POND ITEMS

CATEGORY		1000	1000	6100	6100	6100	1000	1000	6100	6100	6100
		*	*	*	*	*	*				
		606.0200	625.0500	629.0210	630.0120	630.0160	645.0120	SPV.0035.001	SPV.0060.002	SPV.0180.005	SPV.0180.006
		RIPRAP MEDIUM	SALVAGED TOPSOIL	FERTILIZER TYPE B	SEEDING MIXTURE NO. 20	SEEDING MIXTURE NO. 60	GEOTEXTILE FABRIC TYPE HR	POND LINING CLAY	ROOTSTOCK VEGETATION	ROOTSTOCK PROTECTION	MULCHING SPECIAL
LOCATION	OFFSET	CY	SY	CWT	LB	LB	SY	CY	EACH	SY	SY
5059+20 - 5061+20	LT	6	4,940	3	79	80	10	290	310	1,110	4,940
TOTALS		6	4,940	3	79	80	10	290	310	1,110	4,940

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE. SEE "EROSION CONTROL AND RESTORATION" TABLES

TRAFFIC CONTROL ITEMS

CATEGORY		6100		6100		6100		6100		6100		6100		6100	
		643.0300		643.0420		643.0705		643.0800		643.0715		643.0900		643.1050	
				TRAFFIC		TRAFFIC				TRAFFIC				SIGNS	
	*	TRAFFIC		CONTROL		CONTROL		TRAFFIC		CONTROL		TRAFFIC		PORTABLE	
	STAGE	CONTROL		BARRICADES		WARNING		CONTROL		WARNING		CONTROL		CHANGEABLE	
		DRUMS		TYPE III		LIGHTS		ARROW		LIGHTS		SIGNS		MESSAGE	
LOCATION	DAYS	EACH*	DAYS	EACH*	DAYS	EACH*	DAYS	EACH*	DAYS	EACH*	DAYS	EACH*	DAYS	EACH*	DAY
STAGE 1A	35														
CTH K		30	1,050	4	140	8	280	--	--	--	--	23	805	2	70
EAST FRONTAGE ROAD SOUTH		18	630	5	175	4	140	--	--	--	--	2	70	--	--
EAST FRONTAGE ROAD NORTH		--	--	2	70	4	140	--	--	--	--	--	--	--	--
STAGE 1A SUBTOTAL			1,680		385		560		0		0		875		70
STAGE 1B	86														
CTH K		--	--	3	215	6	430	--	--	--	--	8	575	--	--
IH 94 NB		91	7,825	3	260	6	515	2	170	14	1,205	26	2,235	1	85
EAST FRONTAGE ROAD SOUTH		--	--	5	430	10	860	--	--	--	--	6	515	--	--
EAST FRONTAGE ROAD NORTH		--	--	6	515	12	1,030	--	--	--	--	5	430	--	--
SE RAMP	14	--	--	3	40	6	85	--	--	--	--	3	40	--	--
STAGE 1B SUBTOTAL			7,825		1,460		2,920		170		1,205		3,795		85
UNDISTRIBUTED			950		185		350		15		120		465		150
TOTALS			10,455		2,030		3,830		185		1,325		5,135		305

* FOR INFORMATION ONLY
** NOTE: IH 94 NB LANE CLOSURE REQUIRED TO REMOVE EXISTING RUMBLE STRIPS.
SEE SDD "LANE CLOSURE SPEEDS GREATER THAN 40MPH" FOR PLACEMENT OF TRAFFIC CONTROL DEVICES

DELINEATORS, BARRICADES, AND TUBULAR MARKER MISCELLANEOUS ITEMS

CATEGORY	ROADWAY	STATION	STATION	633.0100 DELINEATOR POSTS STEEL EACH	633.1000 DELINEATOR BRACKETS EACH	633.0500 DELINEATORS (WHITE) EACH	643.0453 TRAFFIC CONTROL BARRICADES PERMANENT TYPE III EACH	SPV.0060.073 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS LEFT IN PLACE EACH	SPV.0060.072 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES LEFT IN PLACE EACH	SPV.0060.018 BARRICADE RACK EACH	SPV.0060.017 PERMANENT BARRICADES TYPE III EACH
6100											
	EAST FRONTAGE ROAD SOUTH			30	--	46	1	5	5	--	--
										--	--
	EAST FRONTAGE ROAD NORTH			26	1	45	1	22	22	--	--
	RAMP SE			--	--	--	3	--	--	--	--
	RAMP NE			--	--	--	--	--	--	1	4
	TOTALS			56	1	91	5	27	27	1	4

PAVEMENT MARKING FOR TRAFFIC CONTROL

CATEGORY	ROADWAY	649.0300 TEMPORARY PAVEMENT MARKING REFLECTIVE TAPE 4-INCH WHITE LF	649.0300 TEMPORARY PAVEMENT MARKING REFLECTIVE TAPE 4-INCH YELLOW LF	SPV.0090.025 WET REFLECTIVE REMOVABLE TEMPORARY PAVEMENT MARKING TAPE LF
6100	IH 94	3,300	3,300	6,600
TOTALS		6,600		6,600

TRAFFIC CONTROL ITEMS

CATEGORY	LOCATION	STAGE DURATION DAYS	643.3000 TRAFFIC CONTROL DETOUR SIGNS EACH	643.3000 TRAFFIC CONTROL DETOUR SIGNS DAYS
6100	STAGE 1			
	EAST FRONTAGE RD	121	256	30,976
	STAGE 1B			
	EAST FRONTAGE RD	14	28	392
	TOTAL			31,368

REPLACED WITH
REVISED SHEET 133
2-1-2013

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	MISCELLANEOUS QUANTITIES	SHEET NO: 133	E

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1030-11-70
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DELINEATORS, BARRICADES, AND TUBULAR MARKER MISCELLANEOUS ITEMS

CATEGORY	ROADWAY	STATION	STATION	633.0100 DELINEATOR POSTS STEEL EACH	633.1000 DELINEATOR BRACKETS EACH	633.0500 DELINEATORS (WHITE) EACH	643.0453 TRAFFIC CONTROL BARRICADES PERMANENT TYPE III EACH	SPV.0060.073 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS LEFT IN PLACE EACH	SPV.0060.072 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES LEFT IN PLACE EACH	SPV.0060.018 BARRICADE RACK EACH	SPV.0060.017 PERMANENT BARRICADES TYPE III EACH
6100											
	EAST FRONTAGE ROAD SOUTH			30	--	46	1	5	5	--	--
	EAST FRONTAGE ROAD NORTH			26	1	45	0	0	0	--	--
	RAMP SE			--	--	--	3	--	--	--	--
	RAMP NE			--	--	--	--	--	--	1	4
	TOTALS			56	1	91	4	5	5	1	4

PAVEMENT MARKING FOR TRAFFIC CONTROL

CATEGORY	ROADWAY	649.0300 TEMPORARY PAVEMENT MARKING REFLECTIVE TAPE 4-INCH WHITE LF	649.0300 TEMPORARY PAVEMENT MARKING REFLECTIVE TAPE 4-INCH YELLOW LF	SPV.0090.025 WET REFLECTIVE REMOVABLE TEMPORARY PAVEMENT MARKING TAPE LF
6100	IH 94	3,300	3,300	6,600
TOTALS		6,600		6,600

TRAFFIC CONTROL ITEMS

CATEGORY	LOCATION	STAGE DURATION DAYS	643.3000 TRAFFIC CONTROL DETOUR SIGNS EACH	643.3000 TRAFFIC CONTROL DETOUR SIGNS DAYS
6100	STAGE 1 EAST FRONTAGE RD	121	256	30,976
	STAGE 1B EAST FRONTAGE RD	14	28	392
	TOTAL			31,368

TRAFFIC CONTROL ITEMS

CATEGORY	STAGE	PROJECT	643.0100.016 TRAFFIC CONTROL ID 1030-11-70 EACH	643.2000.001 TRAFFIC CONTROL DETOUR ID 1030-11-70 EACH
6100	1	1030-11-70	1	1
	TOTALS		1	1

TRAFFIC CONTROL SIGN FIXED MESSAGE

CATEGORY	SIGN NO	SIGN SIZE W X H FT X FT	643.1000 SIGN AREA SF
6100			
EAST FRONTAGE ROAD	301	4.5' x 6'	27.00
	302	4' x 6'	24.00
	303	4' x 6'	24.00
	304	4.5' x 6'	27.00
	305	4' x 6'	24.00
	306	4' x 6'	24.00
IH 94			
	1	2'x5.5'	11.00
	2	2'x5.5'	11.00
	3	7'x11'	77.00
	4	2'X5.5'	11.00
	5	4'x11'	44.00
	6	3'x11'	33.00
RAMP SE	5-18	4' x 3'	12.00
TOTALS			349.00

FLASHING SOLAR BEACON ASSEMBLY

CATEGORY	LOCATION	SPV.0105.601 LS	SPV.0105.602 LS
6100			
CTH K	STA 57+75 RT	1	---
CTH K	STA 57+75 LT	---	1
TOTAL		1	1

SIGN REMOVAL SUMMARY

CATEGORY	SIGN #	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.2102 MOVING SIGNS TYPE II EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	SIGN MOUNTED ON SAME POST AS #	REMARKS
6100	1R-1	--	--	--	--	--	NOT USED
	1R-2	1	1	--	--	--	WRONG WAY
	1R-3	1	1	--	--	--	WRONG WAY
	1R-4	1	1	--	--	--	NO TURNS
	1R-5	1	1	--	--	--	NIGHT ARROW (SINGLE)
	1R-6	1	1	--	--	--	DO NOT ENTER
	1R-7	1	1	--	--	--	DO NOT ENTER
	1R-8	1	1	--	--	--	DO NOT ENTER
	1R-9	--	--	--	--	--	NOT USED
	1M-1	--	--	1	2	--	EXIT ARROW 1-4 DIGITS (ALL ARE SIZE 5)
	2R-1	1	1	--	--	--	KEEP RIGHT SYMBOL
	2R-2	1	1	--	--	--	YIELD
	2R-3	1	1	--	--	--	STOP SIGN
	2R-4	1	1	--	--	--	NO TURNS
	2R-5	1	--	--	--	2R-4	NO RIGHT TURN SYMBOL
	2R-6	1	1	--	--	--	NIGHT ARROW (SINGLE)
	2R-7	1	1	--	--	--	NO PASSING ZONE
	2R-8	1	--	--	--	2R-7	KEEP RIGHT SYMBOL
	2R-9	1	1	--	--	--	DO NOT ENTER
	2R-10	1	1	--	--	--	JCT OR END ASSEMBLY
	2R-11	1	1	--	--	--	STOP AHEAD
	3R-1	1	1	--	--	--	STOP AHEAD
	3R-2	1	1	--	--	--	TWO DESTINATIONS ARROWS
	3R-3	1	1	--	--	--	ROUTE TURN ASSEMBLY
	3R-4	1	1	--	--	--	ROUTE TURN ASSEMBLY
	3R-5	1	1	--	--	--	STOP SIGN
	3R-6	1	--	--	--	3R-5	ALL WAY
	3R-7	1	1	--	--	--	TWO WAY TRAFFIC SYMBOL
	3R-8	1	1	--	--	--	ROUTE TURN ASSEMBLY
	3R-9	1	1	--	--	--	SPEED LIMIT 35 MPH
	4R-1	1	1	--	--	--	STOP AHEAD
	4R-2	1	1	--	--	--	JCT OR END ASSEMBLY
	4R-3	1	1	--	--	--	ROUTE TURN ASSEMBLY
	4R-4	1	1	--	--	--	ARW RIGHT LEFT OR AHEAD
	4R-5	1	1	--	--	--	PED, BIKES,NON MOTORIZED... PROHIB
	4R-6	1	1	--	--	--	STOP SIGN
	4R-7	1	--	--	--	4R-6	ONCOMING TRAF DOES NOT STOP
	4R-8	1	1	--	--	--	STOP SIGN
	4R-9	1	--	--	--	4R-8	ONCOMING TRAF DOES NOT STOP
	4R-10	1	1	--	--	--	NO RIGHT TURN SYMBOL
	4R-11	1	1	--	--	--	ROUTE TURN ASSEMBLY
	4R-12	1	1	--	--	--	NO PASSING ZONE
	5R-1	1	1	--	--	--	STOP AHEAD
	5R-2	1	1	--	--	--	NO PASSING ZONE
	5R-3	--	--	--	--	--	NOT USED
	6R-1	1	1	--	--	--	RIGHT LANE MUST TURN RIGHT
	6R-2	1	1	--	--	--	PAVEMENT WIDTH TRANSITION SYMBOL
	6R-3	1	1	--	--	--	SPEED LIMIT __ MPH
	6R-4	1	1	--	--	--	NO PARKING ANY TIME
	6R-5	1	1	--	--	--	NO PARKING ANY TIME
	6R-6	1	1	--	--	--	STOP AHEAD
	6R-7	1	1	--	--	--	SPEED LIMIT 35 MPH
	6R-8	1	1	--	--	--	ROUTE TURN ASSEMBLY
	6R-9	1	1	--	--	--	REDUCED SPEED AHEAD
	6R-10	1	--	--	--	6R-9	ADVISORY SPEED (YELLOW BACK)
	6R-11	1	--	--	--	--	RIGHT CURVE ARROW
TOTALS		52	45	1	2		

PERMANENT SIGNING SUMMARY

CATEGORY	SIGN #	SIGN CODE	SIGN SIZE	SIGN SIZE IN	637.0202 SIGNS REFLECTIVE TYPE II SF	637.0402 SIGNS REFLECTIVE FOLDING TYPE II SF	634.0612 POSTS WOOD 4X6-INCH X 12 FT EACH	634.0614 POSTS WOOD 4X6-INCH X 14 FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16 FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18 FT EACH	SIGN MOUNTED ON SAME POST AS #	REMARKS
6100	1-1	W1-4R	(3)	36X36	9.00	--	--	--	1	--	--	RIGHT REVERSE CURVE ARROW
	1-2	--	--	--	--	--	--	--	--	--	--	NOT USED
	1-3	R2-1	(3)	36X48	12.00	--	--	--	1	--	--	SPEED LIMIT 35 MPH
	1-4	R2-1	(2)	24X30	5.00	--	--	--	1	--	--	SPEED LIMIT 55 MPH
	1-5	W1-6	(2)	48X24	8.00	--	--	1	--	--	--	NIGHT ARROW (SINGLE)
	1-6	--	--	--	--	--	--	--	--	--	--	NOT USED
	1-7	--	--	--	--	--	--	--	--	--	--	NOT USED
	2-1	W6-1	(2)	36X36	9.00	--	--	--	1	--	--	DIVIDED HIGHWAY AHEAD SYMBOL
	2-2	R1-1	(2)	30X30	5.18	--	--	1	--	--	--	STOP SIGN
	2-3	W14-1	(2)	30X30	6.25	--	--	1	--	--	--	DEAD END
	2-4	W1-7	(2)	48X24	8.00	--	--	1	--	--	--	NIGHT ARROW (DOUBLE)
	2-5	W5-54D	(2)	18X18	2.25	--	--	--	--	--	2-6	9 UNIT HAZARD/CLEARANCE MKR YELLOW DELIN
	2-6	R4-7	(3)	36X48	12.00	--	--	--	--	1	--	KEEP RIGHT SYMBOL
	2-7	R5-1	(2)	30X30	6.25	--	--	--	1	--	--	DO NOT ENTER
	2-8	W6-3	(2)	36X36	9.00	--	--	--	--	--	2-7	TWO WAY TRAFFIC SYMBOL
	2-9	W1-4L	(3)	36X36	9.00	--	--	--	1	--	--	LEFT REVERSE CURVE ARROW
	2-10	J1-1	(2)	24X39	6.50	--	--	--	1	--	--	JCT OR END ASSEMBLY
		M2-1	(2)	21X15	--	--	--	--	--	--	--	JCT
		M1-5A	(2)	24X24	--	--	--	--	--	--	--	CTH MARKER 2 OR 3 LETTER
	2-11	R5-1A	(2)	36x24	6.00	--	--	--	1	--	--	WRONG WAY
	2-12	W6-2	(2)	36X36	9.00	--	--	--	--	--	2-11	DIVIDED HIGHWAY ENDS SYMBOL
	2-13	W3-1	(2)	36X36	9.00	--	--	--	1	--	--	STOP AHEAD
	2-14	W1-6	(2)	48X24	8.00	--	--	--	--	--	SEE NOTE 1	NIGHT ARROW (SINGLE)
	2-15	R2-1	(2)	24X30	5.00	--	--	--	1	--	--	SPEED LIMIT 35 MPH
	2-16	R5-1A	(2)	36x24	6.00	--	--	--	1	--	--	WRONG WAY
	2-17	R11-54F	(2)	48x30	--	10.00	--	--	2	--	--	RAMP CLOSED USE ALT ROUTE
	2-18	R4-7	(3)	36X48	12.00	--	--	--	1	--	--	KEEP RIGHT SYMBOL
	2-19	R5-1	(2)	30X30	6.25	--	--	--	1	--	--	DO NOT ENTER
	2-20	R3-8	(2)	36X30	6.75	--	--	--	--	--	2-19	LEFT LANE MUST TURN LEFT, RT LN THRU ONLY
	2-21	J3-3	(2)	72X57	28.50	--	--	--	--	2	--	DIRECTIONAL ASSEMBLY
		MB4-5	(2)	24X12	--	--	--	--	--	--	--	TO, BLUE
		M3-4	(2)	24X12	--	--	--	--	--	--	--	WEST
		M3-2	(2)	24X12	--	--	--	--	--	--	--	EAST
		M1-1	(2)	24X24	--	--	--	--	--	--	--	IH MARKER 2 DIGIT CUTOUT
		M1-5A	(2)	24X24	--	--	--	--	--	--	--	CTH MARKER 2 OR 3 LETTER
		M1-5A	(2)	24X24	--	--	--	--	--	--	--	CTH MARKER 2 OR 3 LETTER
		MB6-1	(2)	21X21	--	--	--	--	--	--	--	ARW RIGHT LEFT OR AHEAD, BLUE
		M6-1	(2)	21X21	--	--	--	--	--	--	--	ARW RIGHT LEFT OR AHEAD
		M6-1	(2)	21X21	--	--	--	--	--	--	--	ARW RIGHT LEFT OR AHEAD
	2-22	R1-1	(3)	36X36	7.46	--	--	--	1	--	--	STOP SIGN
	2-23	R1-52	(2)	36X15	3.75	--	--	--	--	--	2-22	TRAFFIC ON K DOES NOT STOP
	2-24	R5-1	(2)	30X30	6.25	--	--	--	1	--	--	DO NOT ENTER
	2-25	J4-1	(2)	24X36	6.00	--	--	--	1	--	--	REASSURANCE ASSEMBLY
		M3-2	(2)	24X12	--	--	--	--	--	--	--	EAST
		M1-5A	(2)	24X24	--	--	--	--	--	--	--	CTH MARKER 2 OR 3 LETTER

CONTINUED ON NEXT PAGE

PERMANENT SIGNING SUMMARY

CATEGORY	SIGN #	SIGN CODE	SIGN SIZE	SIGN SIZE IN	637.0202 SIGNS REFLECTIVE TYPE II SF	637.0402 SIGNS REFLECTIVE FOLDING TYPE II SF	634.0612 POSTS WOOD 4X6-INCH X 12 FT EACH	634.0614 POSTS WOOD 4X6-INCH X 14 FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16 FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18 FT EACH	SIGN MOUNTED ON SAME POST AS #	REMARKS
6100	2-26	W12-1D	(2)	24X24	4.00	--	1	--	--	--	--	DOUBLE ARROW DOWN
	2-27	R1-1	(3)	36X36	7.46	--	--	--	1	--	--	STOP SIGN
	2-28	J13-1	(2)	24X45	7.50	--	--	--	1	--	--	DIRECTIONAL W/O CARDINAL
		M1-95A	(2)	24X30	--	--	--	--	--	--	--	FRONTAGE RD MKR W/ CARDINAL
		M6-4	(2)	21X21	--	--	--	--	--	--	--	DIR ARW LEFT-RIGHT
	2-29	J32-2	(2)	48X69	23.00	--	--	--	--	2	--	TRAILBLAZER (ADVANCE TURN) W/ CARD
		MB4-1	(2)	24X12	--	--	--	--	--	--	--	ALTERNATE - BLUE
		MB4-1	(2)	24X12	--	--	--	--	--	--	--	ALTERNATE - BLUE
		MB3-4	(2)	24X12	--	--	--	--	--	--	--	WEST, BLUE
		MB3-2	(2)	24X12	--	--	--	--	--	--	--	EAST, BLUE
		M1-1	(2)	24X24	--	--	--	--	--	--	--	IH MARKER 2 DIGIT CUTOUT
		M1-1	(2)	24X24	--	--	--	--	--	--	--	IH MARKER 2 DIGIT CUTOUT
		MB6-1	(2)	21X21	--	--	--	--	--	--	--	ARW RIGHT LEFT OR AHEAD, BLUE
		MB6-1	(2)	21X21	--	--	--	--	--	--	--	ARW RIGHT LEFT OR AHEAD, BLUE
	2-30	J2-2	(2)	48X57	19.00	--	--	--	1	--	--	ROUTE TURN ASSEMBLY
		MB3-4	(2)	24X12	--	--	--	--	--	--	--	WEST, BLUE
		M3-1	(2)	24X12	--	--	--	--	--	--	--	NORTH
		M1-1	(2)	24X24	--	--	--	--	--	--	--	IH MARKER 2 DIGIT CUTOUT
		M1-4	(2)	24X24	--	--	--	--	--	--	--	USH MARKER 2 OR 3 DIGITS
		MB5-1R	(2)	21X21	--	--	--	--	--	--	--	ADV ARW RIGHT TURN, BLUE
		M5-1R	(2)	21X21	--	--	--	--	--	--	--	ADV ARW RIGHT TURN
	2-31	R3-8W	(2)	30X48	10.00	--	--	--	2	--	--	LT LANE LT ONLY, RT LN RT ONLY, THRU ONLY
	2-32	W3-1	(2)	36X36	9.00	--	--	--	1	--	--	STOP AHEAD
	2-33	R5-1	(2)	30X30	6.25	--	--	--	1	--	--	DO NOT ENTER
	2-34	R1-1	(3)	36X36	7.46	--	--	--	1	--	--	STOP SIGN
	2-35	R1-52	(2)	36X15	3.75	--	--	--	--	--	2-34	TRAFFIC ON K DOES NOT STOP
	2-36	J3-3	(2)	72X57	28.50	--	--	--	2	--	--	DIRECTIONAL ASSEMBLY
		M3-2	(2)	24X12	--	--	--	--	--	--	--	EAST
		M3-4	(2)	24X12	--	--	--	--	--	--	--	WEST
		MB4-5	(2)	24X12	--	--	--	--	--	--	--	TO, BLUE
		M1-5A	(2)	24X24	--	--	--	--	--	--	--	CTH MARKER 2 OR 3 LETTER
		M1-5A	(2)	24X24	--	--	--	--	--	--	--	CTH MARKER 2 OR 3 LETTER
		M1-1	(2)	24X24	--	--	--	--	--	--	--	IH MARKER 2 DIGIT CUTOUT
		M6-1	(2)	21X21	--	--	--	--	--	--	--	ARW RIGHT LEFT OR AHEAD
		M6-1	(2)	21X21	--	--	--	--	--	--	--	ARW RIGHT LEFT OR AHEAD
		MB6-1	(2)	21X21	--	--	--	--	--	--	--	ARW RIGHT LEFT OR AHEAD, BLUE
	2-37	W12-1D	(2)	24X24	4.00	--	1	--	--	--	--	DOUBLE ARROW DOWN
	2-38	R1-1	(3)	36X36	7.46	--	--	--	1	--	--	STOP SIGN
	2-39	J13-1	(2)	24X45	7.50	--	--	--	1	--	--	DIRECTIONAL W/O CARDINAL
		M1-95A	(2)	24X30	--	--	--	--	--	--	--	FRONTAGE RD MKR W/ CARDINAL
		M6-4	(2)	21X21	--	--	--	--	--	--	--	DIR ARW LEFT-RIGHT
	2-40	D1-60	(2)	96X24	16.00	--	--	--	--	2	--	STREET NAME W/ CARDINALS & ARROWS
	2-41	W5-56	(2)	18X18	2.25	--	1	--	--	--	--	END OF ROAD MKR W/ RED DELIN
	2-42	W5-56	(2)	18X18	2.25	--	1	--	--	--	--	END OF ROAD MKR W/ RED DELIN
	2-43	W5-56	(2)	18X18	2.25	--	1	--	--	--	--	END OF ROAD MKR W/ RED DELIN

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PERMANENT SIGNING SUMMARY

CATEGORY	SIGN #	SIGN CODE	SIGN SIZE	SIGN SIZE IN	637.0202 SIGNS REFLECTIVE TYPE II SF	637.0402 SIGNS REFLECTIVE FOLDING TYPE II SF	634.0612 POSTS WOOD 4X6-INCH X 12 FT EACH	634.0614 POSTS WOOD 4X6-INCH X 14 FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16 FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18 FT EACH	SIGN MOUNTED ON SAME POST AS #	REMARKS
6100	2-44	R2-1	(2)	24X30	5.00	--	--	--	1	--	--	SPEED LIMIT 35 MPH
	3-1	R4-7	(2)	24X30	5.00	--	--	1	--	--	--	KEEP RIGHT SYMBOL
	3-2	R3-7R	(3)	36X36	9.00	--	--	--	1	--	--	RIGHT LANE MUST TURN RIGHT
	3-3	R5-1	(2)	30X30	6.25	--	--	1	--	--	--	DO NOT ENTER
	3-4	R4-7	(2)	24X30	5.00	--	--	1	--	--	--	KEEP RIGHT SYMBOL
	3-5	R11-2	(2)	48X30	10.00	--	--	--	--	--	SEE NOTE 1	ROAD/RAMP/LANE CLOSED
	3-6	R5-1	(2)	30X30	6.25	--	--	1	--	--	--	DO NOT ENTER
	3-7	R3-7R	(3)	36X36	9.00	--	--	--	1	--	--	RIGHT LANE MUST TURN RIGHT
	3-8	R4-7	(2)	24X30	5.00	--	--	1	--	--	--	KEEP RIGHT SYMBOL
	3-9	W1-4L	(3)	36X36	9.00	--	--	--	1	--	--	LEFT REVERSE CURVE ARROW
	3-10	--	--	--	--	--	--	--	--	--	--	NOT USED
	3-11	W3-1	(2)	36X36	9.00	--	--	--	1	--	--	STOP AHEAD
	3-12	W6-2	(2)	36X36	9.00	--	--	--	1	--	--	DIVIDED HIGHWAY ENDS SYMBOL
	3-13	R5-1A	(2)	36x24	6.00	--	--	--	--	--	3-12	WRONG WAY
	3-14	J1-1	(2)	24X39	6.50	--	--	--	1	--	--	JCT OR END ASSEMBLY
		M2-1	(2)	21X15	--	--	--	--	--	--	--	JCT
		M1-5A	(2)	24X24	--	--	--	--	--	--	--	CTH MARKER 2 OR 3 LETTER
	3-15	W5-54D	(2)	18X18	2.25	--	--	--	--	--	3-16	9 UNIT HAZARD/CLEARANCE MKR YELLOW DELIN
	3-16	R4-7	(3)	36X48	12.00	--	--	--	1	--	--	KEEP RIGHT SYMBOL
	3-17	W6-3	(2)	36X36	9.00	--	--	--	1	--	--	TWO WAY TRAFFIC SYMBOL
	3-18	R5-1	(2)	30X30	6.25	--	--	--	--	--	3-17	DO NOT ENTER
	3-19	R5-57	(4)	36X36	9.00	--	--	--	1	--	--	PED, BIKES,NON MOTORIZED... PROHIB
	3-20	W1-6	(2)	48X24	8.00	--	--	--	--	--	SEE NOTE 1	NIGHT ARROW (SINGLE)
	3-21	J3-2	(2)	48X57	19.00	--	--	--	1	--	--	DIRECTIONAL ASSEMBLY
		MB3-4	(2)	24X12	--	--	--	--	--	--	--	WEST, BLUE
		M1-1	(2)	24X24	--	--	--	--	--	--	--	IH MARKER 2 DIGIT CUTOUT
		MB6-2	(2)	21X21	--	--	--	--	--	--	--	ARW TILT RIGHT OR LEFT, BLUE
		M3-1	(2)	24X12	--	--	--	--	--	--	--	NORTH
		M1-4	(2)	24X24	--	--	--	--	--	--	--	USH MARKER 2 OR 3 DIGITS
		M6-2	(2)	21X21	--	--	--	--	--	--	--	ARW TILT RIGHT OR LEFT
	3-22	J3-2	(2)	48X57	19.00	--	--	--	1	--	--	DIRECTIONAL ASSEMBLY
		MB3-4	(2)	24X12	--	--	--	--	--	--	--	WEST, BLUE
		M1-1	(2)	24X24	--	--	--	--	--	--	--	IH MARKER 2 DIGIT CUTOUT
		MB6-2	(2)	21X21	--	--	--	--	--	--	--	ARW TILT RIGHT OR LEFT, BLUE
		M3-1	(2)	24X12	--	--	--	--	--	--	--	NORTH
		M1-4	(2)	24X24	--	--	--	--	--	--	--	USH MARKER 2 OR 3 DIGITS
		M6-2	(2)	21X21	--	--	--	--	--	--	--	ARW TILT RIGHT OR LEFT
	4-1	W6-1	(2)	36X36	9.00	--	--	--	1	--	--	DIVIDED HIGHWAY AHEAD SYMBOL
	4-2	W1-6	(2)	48X24	8.00	--	--	1	--	--	--	NIGHT ARROW (SINGLE)
	4-3	--	--	--	--	--	--	--	--	--	--	NOT USED
	4-4	--	--	--	--	--	--	--	--	--	--	NOT USED
	4-5	--	--	--	--	--	--	--	--	--	--	NOT USED
	4-6	--	--	--	--	--	--	--	--	--	--	NOT USED
	4-7	--	--	--	--	--	--	--	--	--	--	NOT USED
	5-1	J1-1	(2)	24X39	6.50	--	--	--	1	--	--	JCT OR END ASSEMBLY

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REPLACED WITH
REVISED SHEET 137
2-1-2013

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PERMANENT SIGNING SUMMARY

CATEGORY	SIGN #	SIGN CODE	SIGN SIZE	SIGN SIZE IN	637.0202 SIGNS REFLECTIVE TYPE II SF	637.0402 SIGNS REFLECTIVE FOLDING TYPE II SF	634.0612 POSTS WOOD 4X6-INCH X 12 FT EACH	634.0614 POSTS WOOD 4X6-INCH X 14 FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16 FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18 FT EACH	SIGN MOUNTED ON SAME POST AS #	REMARKS
6100	2-44	R2-1	(2)	24X30	5.00	--	--	--	1	--	--	SPEED LIMIT 35 MPH
	3-1	R4-7	(2)	24X30	5.00	--	--	1	--	--	--	KEEP RIGHT SYMBOL
	3-2	R3-7R	(3)	36X36	9.00	--	--	--	1	--	--	RIGHT LANE MUST TURN RIGHT
	3-3	R5-1	(2)	30X30	6.25	--	--	1	--	--	--	DO NOT ENTER
	3-4	R4-7	(2)	24X30	5.00	--	--	1	--	--	--	KEEP RIGHT SYMBOL
	3-5	**W4-2R**	**(2)**	**36X36**	**9.00**	**--**	**--**	**--**	**--**	**--**	**--**	**PAVEMENT WIDTH TRANSITION SYMBOL**
	3-6	R5-1	(2)	30X30	6.25	--	--	1	--	--	--	DO NOT ENTER
	3-7	R3-7R	(3)	36X36	9.00	--	--	--	1	--	--	RIGHT LANE MUST TURN RIGHT
	3-8	R4-7	(2)	24X30	5.00	--	--	1	--	--	--	KEEP RIGHT SYMBOL
	~~3-9~~	~~W1-4L~~	~~(3)~~	~~36X36~~		~~--~~	~~--~~	~~--~~	~~1~~	~~--~~	~~--~~	~~LEFT REVERSE CURVE ARROW~~ SIGN DELETED
	3-10	--	--	--	--	--	--	--	--	--	--	NOT USED
	3-11	W3-1	(2)	36X36	9.00	--	--	--	1	--	--	STOP AHEAD
	3-12	W6-2	(2)	36X36	9.00	--	--	--	1	--	--	DIVIDED HIGHWAY ENDS SYMBOL
	3-13	R5-1A	(2)	36x24	6.00	--	--	--	--	--	3-12	WRONG WAY
	3-14	J1-1	(2)	24X39	6.50	--	--	--	1	--	--	JCT OR END ASSEMBLY
		M2-1	(2)	21X15	--	--	--	--	--	--	--	JCT
		M1-5A	(2)	24X24	--	--	--	--	--	--	--	CTH MARKER 2 OR 3 LETTER
	3-15	W5-54D	(2)	18X18	2.25	--	--	--	--	--	3-16	9 UNIT HAZARD/CLEARANCE MKR YELLOW DELIN
	3-16	R4-7	(3)	36X48	12.00	--	--	--	1	--	--	KEEP RIGHT SYMBOL
	3-17	W6-3	(2)	36X36	9.00	--	--	--	1	--	--	TWO WAY TRAFFIC SYMBOL
	3-18	R5-1	(2)	30X30	6.25	--	--	--	--	--	3-17	DO NOT ENTER
	3-19	R5-57	(4)	36X36	9.00	--	--	--	1	--	--	PED, BIKES,NON MOTORIZED... PROHIB
	3-20	W1-6	(2)	48X24	8.00	--	--	--	--	--	SEE NOTE 1	NIGHT ARROW (SINGLE)
	3-21	J3-2	(2)	48X57	19.00	--	--	--	1	--	--	DIRECTIONAL ASSEMBLY
		MB3-4	(2)	24X12	--	--	--	--	--	--	--	WEST, BLUE
		M1-1	(2)	24X24	--	--	--	--	--	--	--	IH MARKER 2 DIGIT CUTOUT
		MB6-2	(2)	21X21	--	--	--	--	--	--	--	ARW TILT RIGHT OR LEFT, BLUE
		M3-1	(2)	24X12	--	--	--	--	--	--	--	NORTH
		M1-4	(2)	24X24	--	--	--	--	--	--	--	USH MARKER 2 OR 3 DIGITS
		M6-2	(2)	21X21	--	--	--	--	--	--	--	ARW TILT RIGHT OR LEFT
	3-22	J3-2	(2)	48X57	19.00	--	--	--	1	--	--	DIRECTIONAL ASSEMBLY
		MB3-4	(2)	24X12	--	--	--	--	--	--	--	WEST, BLUE
		M1-1	(2)	24X24	--	--	--	--	--	--	--	IH MARKER 2 DIGIT CUTOUT
		MB6-2	(2)	21X21	--	--	--	--	--	--	--	ARW TILT RIGHT OR LEFT, BLUE
		M3-1	(2)	24X12	--	--	--	--	--	--	--	NORTH
		M1-4	(2)	24X24	--	--	--	--	--	--	--	USH MARKER 2 OR 3 DIGITS
		M6-2	(2)	21X21	--	--	--	--	--	--	--	ARW TILT RIGHT OR LEFT
	4-1	W6-1	(2)	36X36	9.00	--	--	--	1	--	--	DIVIDED HIGHWAY AHEAD SYMBOL
	4-2	W1-6	(2)	48X24	8.00	--	--	1	--	--	--	NIGHT ARROW (SINGLE)
	4-3	--	--	--	--	--	--	--	--	--	--	NOT USED
	4-4	--	--	--	--	--	--	--	--	--	--	NOT USED
	4-5	--	--	--	--	--	--	--	--	--	--	NOT USED
	4-6	--	--	--	--	--	--	--	--	--	--	NOT USED
	4-7	--	--	--	--	--	--	--	--	--	--	NOT USED
	5-1	J1-1	(2)	24X39	6.50	--	--	--	1	--	--	JCT OR END ASSEMBLY

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REPLACED WITH
REVISED SHEET 137
5-16-2013

PERMANENT SIGNING SUMMARY

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1030-11-70
Revised Page 137
May 16, 2013

CATEGORY	SIGN #	SIGN CODE	SIGN SIZE	SIGN SIZE IN	637.0202 SIGNS REFLECTIVE TYPE II SF	637.0402 SIGNS REFLECTIVE FOLDING TYPE II SF	634.0612 POSTS WOOD 4X6-INCH X 12 FT EACH	634.0614 POSTS WOOD 4X6-INCH X 14 FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16 FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18 FT EACH	SIGN MOUNTED ON SAME POST AS #	REMARKS
6100	2-44	R2-1	(2)	24X30	5.00	--	--	--	1	--	--	SPEED LIMIT 35 MPH
	3-1	R4-7	(2)	24X30	5.00	--	--	1	--	--	--	KEEP RIGHT SYMBOL
	3-2	R3-7R	(3)	36X36	9.00	--	--	--	1	--	--	RIGHT LANE MUST TURN RIGHT
	3-3	R5-1	(2)	30X30	6.25	--	--	1	--	--	--	DO NOT ENTER
	3-4	R4-7	(2)	24X30	5.00	--	--	1	--	--	--	KEEP RIGHT SYMBOL
	3-5	W4-2R	(2)	36X36	9.00	--	--	--	1	--	--	PAVEMENT WIDTH TRANSITION SYMBOL
	3-6	R5-1	(2)	30X30	6.25	--	--	1	--	--	--	DO NOT ENTER
	3-7	R3-7R	(3)	36X36	9.00	--	--	--	1	--	--	RIGHT LANE MUST TURN RIGHT
	3-8	R4-7	(2)	24X30	5.00	--	--	1	--	--	--	KEEP RIGHT SYMBOL
	3-9	--	--	--	--	--	--	--	--	--	--	NOT USED
	3-10	--	--	--	--	--	--	--	--	--	--	NOT USED
	3-11	W3-1	(2)	36X36	9.00	--	--	--	1	--	--	STOP AHEAD
	3-12	W6-2	(2)	36X36	9.00	--	--	--	1	--	--	DIVIDED HIGHWAY ENDS SYMBOL
	3-13	R5-1A	(2)	36x24	6.00	--	--	--	--	--	3-12	WRONG WAY
	3-14	J1-1	(2)	24X39	6.50	--	--	--	1	--	--	JCT OR END ASSEMBLY
		M2-1	(2)	21X15	--	--	--	--	--	--	--	JCT
		M1-5A	(2)	24X24	--	--	--	--	--	--	--	CTH MARKER 2 OR 3 LETTER
	3-15	W5-54D	(2)	18X18	2.25	--	--	--	--	--	3-16	9 UNIT HAZARD/CLEARANCE MKR YELLOW DELIN
	3-16	R4-7	(3)	36X48	12.00	--	--	--	1	--	--	KEEP RIGHT SYMBOL
	3-17	W6-3	(2)	36X36	9.00	--	--	--	1	--	--	TWO WAY TRAFFIC SYMBOL
	3-18	R5-1	(2)	30X30	6.25	--	--	--	--	--	3-17	DO NOT ENTER
	3-19	R5-57	(4)	36X36	9.00	--	--	--	1	--	--	PED, BIKES,NON MOTORIZED... PROHIB
	3-20	W1-6	(2)	48X24	8.00	--	--	--	--	--	SEE NOTE 1	NIGHT ARROW (SINGLE)
	3-21	J3-2	(2)	48X57	19.00	--	--	--	1	--	--	DIRECTIONAL ASSEMBLY
		MB3-4	(2)	24X12	--	--	--	--	--	--	--	WEST, BLUE
		M1-1	(2)	24X24	--	--	--	--	--	--	--	IH MARKER 2 DIGIT CUTOUT
		MB6-2	(2)	21X21	--	--	--	--	--	--	--	ARW TILT RIGHT OR LEFT, BLUE
		M3-1	(2)	24X12	--	--	--	--	--	--	--	NORTH
		M1-4	(2)	24X24	--	--	--	--	--	--	--	USH MARKER 2 OR 3 DIGITS
		M6-2	(2)	21X21	--	--	--	--	--	--	--	ARW TILT RIGHT OR LEFT
	3-22	J3-2	(2)	48X57	19.00	--	--	--	1	--	--	DIRECTIONAL ASSEMBLY
		MB3-4	(2)	24X12	--	--	--	--	--	--	--	WEST, BLUE
		M1-1	(2)	24X24	--	--	--	--	--	--	--	IH MARKER 2 DIGIT CUTOUT
		MB6-2	(2)	21X21	--	--	--	--	--	--	--	ARW TILT RIGHT OR LEFT, BLUE
		M3-1	(2)	24X12	--	--	--	--	--	--	--	NORTH
		M1-4	(2)	24X24	--	--	--	--	--	--	--	USH MARKER 2 OR 3 DIGITS
		M6-2	(2)	21X21	--	--	--	--	--	--	--	ARW TILT RIGHT OR LEFT
	3-23	**R5-1**	**(2)**	**30X30**	**6.25**	**--**	**--**	**1**	**--**	**--**	**--**	**DO NOT ENTER**
	3-24	**R3-56L**	**(2)**	**24X30**	**5**	**--**	**--**	**1**	**--**	**--**	**--**	**LEFT TURN LANE W/ARROW**
	3-25	**R3-55L**	**(2)**	**24X30**	**5**	**--**	**--**	**1**	**--**	**--**	**--**	**LEFT TURN LANE W/ARROW**
	4-1	W6-1	(2)	36X36	9.00	--	--	--	1	--	--	DIVIDED HIGHWAY AHEAD SYMBOL
	4-2	W1-6	(2)	48X24	8	--	--	1	--	--	--	NIGHT ARROW (SINGLE)
	4-3	--	--	--	--	--	--	--	--	--	--	NOT USED
	4-4	--	--	--	--	--	--	--	--	--	--	NOT USED
	4-5	--	--	--	--	--	--	--	--	--	--	NOT USED
	4-6	--	--	--	--	--	--	--	--	--	--	NOT USED
	4-7	--	--	--	--	--	--	--	--	--	--	NOT USED

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PERMANENT SIGNING SUMMARY

CATEGORY	SIGN #	SIGN CODE	SIGN SIZE	SIGN SIZE IN	637.0202 SIGNS REFLECTIVE TYPE II SF	637.0402 SIGNS REFLECTIVE FOLDING TYPE II SF	634.0612 POSTS WOOD 4X6-INCH X 12 FT EACH	634.0614 POSTS WOOD 4X6-INCH X 14 FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16 FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18 FT EACH	SIGN MOUNTED ON SAME POST AS #	REMARKS
6100		M2-1	(2)	21X15	--	--	--	--	--	--	--	JCT
		M1-5A	(2)	24X24	--	--	--	--	--	--	--	CTH MARKER 2 OR 3 LETTER
	5-2	W3-1	(2)	36X36	9.00	--	--	--	1	--	--	STOP AHEAD
	5-3	D1-2	(2)	78X24	13.00	--	--	--	2	--	--	TWO DESTINATIONS ARROWS
	5-4	W1-6	(2)	48X24	8.00	--	--	--	--	--	SEE NOTE 1	NIGHT ARROW (SINGLE)
	5-5	R5-1A	(3)	42X30	8.75	--	--	--	1	--	--	WRONG WAY
	5-6	R5-1A	(3)	42X30	8.75	--	--	--	1	--	--	WRONG WAY
	5-7	J2-2	(2)	48X57	19.00	--	--	--	1	--	--	ROUTE TURN ASSEMBLY
		M3-4	(2)	24X12	--	--	--	--	--	--	--	WEST
		M3-2	(2)	24X12	--	--	--	--	--	--	--	EAST
		M1-5A	(2)	24X24	--	--	--	--	--	--	--	CTH MARKER 2 OR 3 LETTER
		M1-5A	(2)	24X24	--	--	--	--	--	--	--	CTH MARKER 2 OR 3 LETTER
		M6-1	(2)	21X21	--	--	--	--	--	--	--	ARW RIGHT LEFT OR AHEAD
		M6-1	(2)	21X21	--	--	--	--	--	--	--	ARW RIGHT LEFT OR AHEAD
	5-8	R5-1	(3)	36X36	9.00	--	--	--	1	--	--	DO NOT ENTER
	5-9	R5-1	(3)	36X36	9.00	--	--	--	1	--	--	DO NOT ENTER
	5-10	R6-2L	(2)	24X30	5.00	--	--	--	1	--	--	ONE WAY ARROW LEFT
	5-11	R5-1	(3)	36X36	9.00	--	--	--	1	--	--	DO NOT ENTER
	5-12	D1-60	(2)	96X24	16.00	--	--	--	--	2	--	STREET NAME W/ CARDINALS & ARROWS
	5-13	R11-2	(2)	48X30	10.00	--	--	--	--	--	SEE NOTE 1	ROAD/RAMP/LANE CLOSED
	5-14	R6-2R	(2)	24X30	5.00	--	--	--	1	--	--	ONE WAY ARROW RIGHT
	5-15	R3-1	(2)	24X24	4.00	--	--	1	--	--	--	NO RIGHT TURN SYMBOL
	5-16	R3-2	(2)	24X24	4.00	--	--	1	--	--	--	NO LEFT TURN SYMBOL
	5-17	R2-1	(2)	24X30	5.00	--	--	--	1	--	--	SPEED LIMIT 35 MPH
	5-18	--	--	48X36	12.00	--	--	--	1	--	--	FREEWAY ENTRANCE RAMP ONLY
	6-1	R3-8W	(2)	54X30	11.25	--	--	--	2	--	--	LT LANE LT ONLY , RT LN RT ONLY, THRU ONLY
	6-2	W2-1	(2)	30X30	6.25	--	--	--	--	--	SEE NOTE 2	CROSS ROAD SYMBOL
	6-3	W2-1	(2)	30X30	6.25	--	--	--	--	--	SEE NOTE 2	CROSS ROAD SYMBOL
	6-4	W3-5	(2)	36X36	9.00	--	--	--	1	--	--	SPEED LIMIT 35 MPH AHEAD
	6-5	R2-1	(2)	24X30	5.00	--	--	--	1	--	--	SPEED LIMIT 55 MPH
	6-6	W1-2R	(3)	36X36	9.00	--	--	--	1	--	--	RIGHT CURVE ARROW
	6-7	R2-1	(3)	36X48	12.00	--	--	--	1	--	--	SPEED LIMIT 35 MPH
	6-8	W23-2	(3)	36X36	9.00	--	--	--	1	--	--	NEW TRAFFIC PATTERN AHEAD
	6-9	W23-2	(3)	36X36	9.00	--	--	--	1	--	--	NEW TRAFFIC PATTERN AHEAD
TOTALS					834.27	10.00	5	12	65	9		

NOTE 1 = SIGN MOUNTED ON PERMANENT BARRICADE TYPE III
NOTE 2 = SIGN MOUNTED ON FLASHING SOLAR BEACON ASSEMBLY

REPLACED WITH
REVISED SHEET 138
2-1-2013

Plan Revision
1030-11-70
Revised Page 138
February 1, 2013

PERMANENT SIGNING SUMMARY

CATEGORY	SIGN #	SIGN CODE	SIGN SIZE	SIGN SIZE IN	637.0202 SIGNS REFLECTIVE TYPE II SF	637.0402 SIGNS REFLECTIVE FOLDING TYPE II SF	634.0612 POSTS WOOD 4X6-INCH X 12 FT EACH	634.0614 POSTS WOOD 4X6-INCH X 14 FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16 FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18 FT EACH	SIGN MOUNTED ON SAME POST AS #	REMARKS
6100		M2-1	(2)	21X15	--	--	--	--	--	--	--	JCT
		M1-5A	(2)	24X24	--	--	--	--	--	--	--	CTH MARKER 2 OR 3 LETTER
	5-2	W3-1	(2)	36X36	9.00	--	--	--	1	--	--	STOP AHEAD
	5-3	D1-2	(2)	78X24	13.00	--	--	--	2	--	--	TWO DESTINATIONS ARROWS
	5-4	W1-6	(2)	48X24	8.00	--	--	--	--	--	SEE NOTE 1	NIGHT ARROW (SINGLE)
	5-5	R5-1A	(3)	42X30	8.75	--	--	--	1	--	--	WRONG WAY
	5-6	R5-1A	(3)	42X30	8.75	--	--	--	1	--	--	WRONG WAY
	5-7	J2-2	(2)	48X57	19.00	--	--	--	1	--	--	ROUTE TURN ASSEMBLY
		M3-4	(2)	24X12	--	--	--	--	--	--	--	WEST
		M3-2	(2)	24X12	--	--	--	--	--	--	--	EAST
		M1-5A	(2)	24X24	--	--	--	--	--	--	--	CTH MARKER 2 OR 3 LETTER
		M1-5A	(2)	24X24	--	--	--	--	--	--	--	CTH MARKER 2 OR 3 LETTER
		M6-1	(2)	21X21	--	--	--	--	--	--	--	ARW RIGHT LEFT OR AHEAD
		M6-1	(2)	21X21	--	--	--	--	--	--	--	ARW RIGHT LEFT OR AHEAD
	5-8	R5-1	(3)	36X36	9.00	--	--	--	1	--	--	DO NOT ENTER
	5-9	R5-1	(3)	36X36	9.00	--	--	--	1	--	--	DO NOT ENTER
	5-10	R6-2L	(2)	24X30	5.00	--	--	--	1	--	--	ONE WAY ARROW LEFT
	5-11	R5-1	(3)	36X36	9.00	--	--	--	1	--	--	DO NOT ENTER
	5-12	D1-60	(2)	96X24	16.00	--	--	--	--	2	--	STREET NAME W/ CARDINALS & ARROWS
	5-13	R11-2	(2)	48X30	10.00	--	--	--	--	--	SEE NOTE 1	ROAD/RAMP/LANE CLOSED
	5-14	R6-2R	(2)	24X30	5.00	--	--	--	1	--	--	ONE WAY ARROW RIGHT
	5-15	R3-1	(2)	24X24	4.00	--	--	1	--	--	--	NO RIGHT TURN SYMBOL
	5-16	R3-2	(2)	24X24	4.00	--	--	1	--	--	--	NO LEFT TURN SYMBOL
	5-17	R2-1	(2)	24X30	5.00	--	--	--	1	--	--	SPEED LIMIT 35 MPH
	5-18	--	--	48X36	12.00	--	--	--	1	--	--	FREEWAY ENTRANCE RAMP ONLY
	6-1	R3-8W	(2)	54X30	11.25	--	--	--	2	--	--	LT LANE LT ONLY , RT LN RT ONLY, THRU ONLY
	6-2	W2-1	(3)	36X36	9.00	--	--	--	1	--	--	CROSS ROAD SYMBOL
	6-3	W2-1	(3)	36X36	9.00	--	--	--	1	--	--	CROSS ROAD SYMBOL
	6-4	W3-5	(2)	36X36	9.00	--	--	--	1	--	--	SPEED LIMIT 35 MPH AHEAD
	6-5	R2-1	(2)	24X30	5.00	--	--	--	1	--	--	SPEED LIMIT 55 MPH
	6-6	W1-2R	(3)	36X36	9.00	--	--	--	1	--	--	RIGHT CURVE ARROW
	6-7	R2-1	(3)	36X48	12.00	--	--	--	1	--	--	SPEED LIMIT 35 MPH
	6-8	W23-2	(3)	36X36	9.00	--	--	--	1	--	--	NEW TRAFFIC PATTERN AHEAD
	6-9	W23-2	(3)	36X36	9.00	--	--	--	1	--	--	NEW TRAFFIC PATTERN AHEAD
TOTALS					829.77	10.00	5	12	67	9		

NOTE 1 = SIGN MOUNTED ON PERMANENT BARRICADE TYPE III

REPLACED WITH
REVISED SHEET 138
5-16-2013

Plan Revision
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PERMANENT SIGNING SUMMARY

CATEGORY	SIGN #	SIGN CODE	SIGN SIZE	SIGN SIZE IN	637.0202 SIGNS REFLECTIVE TYPE II SF	637.0402 SIGNS REFLECTIVE FOLDING TYPE II SF	634.0612 POSTS WOOD 4X6-INCH X 12 FT EACH	634.0614 POSTS WOOD 4X6-INCH X 14 FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16 FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18 FT EACH	SIGN MOUNTED ON SAME POST AS #	REMARKS
6100	5-1	J1-1	(2)	24X39	6.5	--	--	--	1	--	--	JCT OR END ASSEMBLY
		M2-1	(2)	21X15	--	--	--	--	--	--	--	JCT
		M1-5A	(2)	24X24	--	--	--	--	--	--	--	CTH MARKER 2 OR 3 LETTER
	5-2	W3-1	(2)	36X36	9.00	--	--	--	1	--	--	STOP AHEAD
	5-3	D1-2	(2)	78X24	13	--	--	--	2	--	--	TWO DESTINATIONS ARROWS
	5-4	W1-6	(2)	48X24	8	--	--	--	--	--	SEE NOTE 1	NIGHT ARROW (SINGLE)
	5-5	R5-1A	(3)	42X30	8.75	--	--	--	1	--	--	WRONG WAY
	5-6	R5-1A	(3)	42X30	8.75	--	--	--	1	--	--	WRONG WAY
	5-7	J2-2	(2)	48X57	19.00	--	--	--	1	--	--	ROUTE TURN ASSEMBLY
		M3-4	(2)	24X12	--	--	--	--	--	--	--	WEST
		M3-2	(2)	24X12	--	--	--	--	--	--	--	EAST
		M1-5A	(2)	24X24	--	--	--	--	--	--	--	CTH MARKER 2 OR 3 LETTER
		M1-5A	(2)	24X24	--	--	--	--	--	--	--	CTH MARKER 2 OR 3 LETTER
		M6-1	(2)	21X21	--	--	--	--	--	--	--	ARW RIGHT LEFT OR AHEAD
		M6-1	(2)	21X21	--	--	--	--	--	--	--	ARW RIGHT LEFT OR AHEAD
	5-8	R5-1	(3)	36X36	9	--	--	--	1	--	--	DO NOT ENTER
	5-9	R5-1	(3)	36X36	9	--	--	--	1	--	--	DO NOT ENTER
	5-10	R6-2L	(2)	24X30	5	--	--	--	1	--	--	ONE WAY ARROW LEFT
	5-11	R5-1	(3)	36X36	9.00	--	--	--	1	--	--	DO NOT ENTER
	5-12	D1-60	(2)	96X24	16	--	--	--	--	2	--	STREET NAME W/ CARDINALS & ARROWS
	5-13	R11-2	(2)	48X30	10	--	--	--	--	--	SEE NOTE 1	ROAD/RAMP/LANE CLOSED
	5-14	R6-2R	(2)	24X30	5	--	--	--	1	--	--	ONE WAY ARROW RIGHT
	5-15	R3-1	(2)	24X24	4	--	--	1	--	--	--	NO RIGHT TURN SYMBOL
	5-16	R3-2	(2)	24X24	4.00	--	--	1	--	--	--	NO LEFT TURN SYMBOL
	5-17	R2-1	(2)	24X30	5	--	--	--	1	--	--	SPEED LIMIT 35 MPH
	5-18	--	--	48X36	12	--	--	--	1	--	--	FREEWAY ENTRANCE RAMP ONLY
	6-1	R3-8W	(2)	54X30	11.25	--	--	--	2	--	--	LT LANE LT ONLY , RT LN RT ONLY, THRU ONLY
	6-2	W2-1	(3)	36X36	9	--	--	--	1	--	--	CROSS ROAD SYMBOL
	6-3	W2-1	(3)	36X36	9.00	--	--	--	1	--	--	CROSS ROAD SYMBOL
	6-4	W3-5	(2)	36X36	9	--	--	--	1	--	--	SPEED LIMIT 35 MPH AHEAD
	6-5	R2-1	(2)	24X30	5	--	--	--	1	--	--	SPEED LIMIT 55 MPH
	6-6	W1-2R	(3)	36X36	9	--	--	--	1	--	--	RIGHT CURVE ARROW
	6-7	R2-1	(3)	36X48	12	--	--	--	1	--	--	SPEED LIMIT 35 MPH
	6-8	W23-2	(3)	36X36	9.00	--	--	--	1	--	--	NEW TRAFFIC PATTERN AHEAD
	6-9	W23-2	(3)	36X36	9	--	--	--	1	--	--	NEW TRAFFIC PATTERN AHEAD
TOTALS					846.02	10.00	5	15	67	9		

NOTE 1 = SIGN MOUNTED ON PERMANENT BARRICADE TYPE III

FIELD OFFICE FIXED

CATEGORY	STAGE		SPV.0105.001 EACH
1000	ALL	PROJECT ID 1030-11-70	0.2
	TOTAL		0.2

FIELD OFFICE LABORATORY

CATEGORY	STAGE		642.6001 EACH
1000	ALL	PROJECT ID 1030-11-70	0.2
	TOTAL		0.2

LOCATING NO-PASSING ZONES

CATEGORY	ROADWAY	STATION		STATION	648.0100 MI
6100					
	EAST FRONTAGE ROAD SOUTH	3031+00		3032+44	0.03
	EAST FRONTAGE ROAD NORTH	5072+45	-	5079+50	0.13
	TOTALS				0.16

PAVEMENT MARKING

CATEGORY	ROADWAY	STATION	STATION	646.0106 PAVEMENT MARKING EPOXY 4-INCH YELLOW LF	646.0106 PAVEMENT MARKING EPOXY 4-INCH WHITE LF	646.0881.S PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH YELLOW LF	646.0881.S PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH WHITE LF	646.0126 PAVEMENT MARKING EPOXY 8-INCH WHITE LF	646.0883.S PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH WHITE LF	646.0843.S PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH LF	647.0166 PAVEMENT MARKING ARROWS EPOXY TYPE 2 EACH	SPV.0060.081 PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROW EPOXY TYPE 2 EACH	647.0176 PAVEMENT MARKING ARROWS EPOXY TYPE 3 EACH	647.0356 PAVEMENT MARKING WORDS EPOXY EACH	SPV.0060.077 PAVEMENT MARKING GROOVED THERMOPLASTIC PLASTIC WORDS EACH	647.0456 PAVEMENT MARKING CURB EPOXY YELLOW LF	647.0566 PAVEMENT MARKING STOPLINE EPOXY 18-INCH LF	647.0606 PAVEMENT MARKING ISLAND NOSE EPOXY EACH	647.0726 PAVEMENT MARKING DIAGONAL EPOXY 12-INCH YELLOW LF	647.0746 PAVEMENT MARKING DIAGONAL EPOXY 24-INCH WHITE LF
6100	IH 94			--	1,750	--	--	--	--	960	--	--	--	--	--	--	--	--	--	390
	CTH K			4,750	3,075	--	--	1,330	--	--	11	--	--	10	--	--	--	--	390	--
	EAST FRONTAGE ROAD SOUTH			4,050	5,050	2,200	--	180	375	--	--	4	1	--	2	25	42	1	360	--
	EAST FRONTAGE ROAD NORTH			5,010	5,040	1,540	35	310	60	440	--	5	1	1	4	165	41	4	240	--
	RAMP SE			975	1,550	--	--	--	--	--	--	--	--	--	--	--	38	--	--	--
	RAMP NE			1,000	975	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TOTALS			33,225		3,775		1,820	435	1,400	11	9	2	11	6	190	121	5	990	390

REPLACED WITH
REVISED SHEET 139
2-1-2013

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FIELD OFFICE FIXED

CATEGORY	STAGE		SPV.0105.001 EACH
1000	ALL	PROJECT ID 1030-11-70	0.2
	TOTAL		0.2

FIELD OFFICE LABORATORY

CATEGORY	STAGE		642.6001 EACH
1000	ALL	PROJECT ID 1030-11-70	0.2
	TOTAL		0.2

LOCATING NO-PASSING ZONES

CATEGORY	ROADWAY	STATION		STATION	648.0100 MI
6100					
	EAST FRONTAGE ROAD SOUTH				
		3031+00		3032+44	0.03
	EAST FRONTAGE ROAD NORTH				
		5072+45	-	5079+50	0.13
	TOTALS				0.16

PAVEMENT MARKING

CATEGORY	CATEGORY	ROADWAY	STATION	STATION	646.0106 PAVEMENT MARKING EPOXY 4-INCH YELLOW LF	646.0106 PAVEMENT MARKING EPOXY 4-INCH WHITE LF	646.0881.S PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH YELLOW LF	646.0881.S PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH WHITE LF	646.0126 PAVEMENT MARKING EPOXY 8-INCH WHITE LF	646.0883.S PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH WHITE LF	646.0843.S PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH LF	647.0166 PAVEMENT MARKING ARROWS EPOXY TYPE 2 EACH	SPV.0060.081 PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROW EPOXY TYPE 2 EACH	647.0176 PAVEMENT MARKING ARROWS EPOXY TYPE 3 EACH	647.0356 PAVEMENT MARKING WORDS EPOXY EACH	SPV.0060.077 PAVEMENT MARKING GROOVED THERMOPLASTIC PLASTIC WORDS EACH	647.0456 PAVEMENT MARKING CURB EPOXY YELLOW LF	647.0566 PAVEMENT MARKING STOPLINE EPOXY 18-INCH LF	647.0606 PAVEMENT MARKING ISLAND NOSE EPOXY EACH	647.0726 PAVEMENT MARKING DIAGONAL EPOXY 12-INCH YELLOW LF	647.0746 PAVEMENT MARKING DIAGONAL EPOXY 24-INCH WHITE LF
6100	6100	IH 94			--	1,750	--	--	--	--	960	--	--	--	--	--	--	--	--	--	390
		CTH K			4,750	3,075	--	--	1,330	--	--	11	--	--	10	--	--	--	--	390	--
		EAST FRONTAGE ROAD SOUTH			4,050	5,050	2,200	--	180	375	--	--	4	1	--	2	25	42	1	360	--
		EAST FRONTAGE ROAD NORTH			4,850	5,350	1,540	35	410	100	520	1	5	1	0	5	165	41	4	310	--
		RAMP SE			975	1,550	--	--	--	--	--	--	--	--	--	--	--	38	--	--	--
		RAMP NE			1,000	975	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		TOTALS			33,375		3,775		1,920	475	1,480	12	9	2	10	7	190	121	5	1,060	390

REPLACED WITH
REVISED SHEET 139
5-16-2013

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FIELD OFFICE FIXED

CATEGORY	STAGE		SPV.0105.001 EACH
1000	ALL	PROJECT ID 1030-11-70	0.2
	TOTAL		0.2

FIELD OFFICE LABORATORY

CATEGORY	STAGE		642.6001 EACH
1000	ALL	PROJECT ID 1030-11-70	0.2
	TOTAL		0.2

LOCATING NO-PASSING ZONES

CATEGORY	ROADWAY	STATION		STATION	648.0100 MI
6100					
	EAST FRONTAGE ROAD SOUTH	3031+00		3032+44	0.03
	EAST FRONTAGE ROAD NORTH	5072+45	-	5079+50	0.13
	TOTALS				0.16

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PAVEMENT MARKING

CATEGORY	ROADWAY	STATION	STATION	646.0106 PAVEMENT MARKING EPOXY 4-INCH YELLOW LF	646.0106 PAVEMENT MARKING EPOXY 4-INCH WHITE LF	646.0881.S PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH YELLOW LF	646.0881.S PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH WHITE LF	646.0126 PAVEMENT MARKING EPOXY 8-INCH WHITE LF	646.0883.S PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH WHITE LF	646.0843.S PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH LF	647.0166 PAVEMENT MARKING ARROWS EPOXY TYPE 2 EACH	SPV.0060.081 PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROW EPOXY TYPE 2 EACH	647.0176 PAVEMENT MARKING ARROWS EPOXY TYPE 3 EACH	647.0356 PAVEMENT MARKING WORDS EPOXY EACH	SPV.0060.077 PAVEMENT MARKING GROOVED THERMOPLASTIC PLASTIC WORDS EACH	647.0456 PAVEMENT MARKING CURB EPOXY YELLOW LF	647.0566 PAVEMENT MARKING STOPLINE EPOXY 18-INCH LF	647.0606 PAVEMENT MARKING ISLAND NOSE EPOXY EACH	647.0726 PAVEMENT MARKING DIAGONAL EPOXY 12-INCH YELLOW LF	647.0726 PAVEMENT MARKING DIAGONAL EPOXY 12-INCH WHITE LF	647.0746 PAVEMENT MARKING DIAGONAL EPOXY 24-INCH WHITE LF
6100	IH 94			--	1,750	--	--	--	--	960	--	--	--	--	--	--	--	--	--	--	--	390
	CTH K			4,750	3,075	--	--	1,330	--	--	11	--	--	10	--	--	--	--	--	390	--	--
	EAST FRONTAGE ROAD SOUTH			4,050	5,050	2,200	--	180	375	--	--	4	1	--	2	25	42	1	360	--	--
	EAST FRONTAGE ROAD NORTH			4,840	5,350	1,540	35	410	375	785	1	7	1	0	7	95	41	6	310	70	--
	RAMP SE			975	1,550	--	--	--	--	--	--	--	--	--	--	--	38	--	--	--	--
	RAMP NE			1,000	975	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TOTALS			33,365		3,775		1,920	750	1,745	12	11	2	10	9	120	121	7	1,130		390

REMOVING PAVEMENT MARKING

CATEGORY	LOCATION	646.0600 LF
6100	IH 94	2,420
	CTH K	6,480
	RAMP SE	1,150
	RAMP NE	2,960
	SUBTOTAL	13,010
	UNDISTRIBUTED (20%)	2,600
	TOTAL	15,610

REMOVING RUMBLE STRIPS

CATEGORY	ROADWAY	STATION	SPV.0180.004 REMOVING RUMBLE STRIPS SY
1000	MAINLINE	023+50 - 1052+5(	400
	TOTAL		400

SURVEY PROJECT

CATEGORY	LOCATION	SPV.0105.016 SURVEY PROJECT 1030-11-70 LS
1000	PROJECT ID 1030-11-70	1
TOTAL		1

PAVEMENT CLEANUP

CATEGORY	SPV.0105.017 PAVEMENT CLEANUP LS
1000	1
TOTAL	1

TRUCK MOUNTED ATTENUATOR

CATEGORY	LOCATION	SPV.0075.001 TRUCK MOUNTED ATTENUATOR HR
1000	IH 94 UNDISTRIBUTED	60
	TOTAL	60

GEOGRID REINFORCEMENT

CATEGORY	LOCATION	SPV.0180.001 SY
1000	SE FRONTAGE ROAD	13,800
	NE FRONTAGE ROAD	15,500
	UNDISTRIBUTED	5,000
	TOTAL	34,300

SAW CUTTING ITEMS

CATEGORY	ROADWAY	FROM STATION	TO STATION	OFFSET	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF	REMARKS
1000	CTH K						
		47+72 -	53+77		--	605	
		50+21 -	57+39		--	718	
	EXISTING EAST FRONTAGE ROAD SOUTH						
		1037+50 -	1045+17	55' RT	--	767	RAMP SE
	EXISTING EAST FRONTAGE ROAD NORTH						
		5055+39 -	5055+80	145' LT	41	--	PARKING LOT
		5057+85 -	5058+42	150' LT	57	--	PARKING LOT
	TOTALS				98	2,090	

REPLACED WITH
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REMOVING PAVEMENT MARKING

CATEGORY	LOCATION	646.0600 LF
6100	IH 94	2,420
	CTH K	6,480
	RAMP SE	1,150
	RAMP NE	2,960
	SUBTOTAL	13,010
	UNDISTRIBUTED (20%)	2,600
	TOTAL	15,610

REMOVING RUMBLE STRIPS

CATEGORY	ROADWAY	STATION	SPV.0180.004 REMOVING RUMBLE STRIPS SY
1000	MAINLINE	023+50 - 1052+50	400
	TOTAL		400

SURVEY PROJECT

CATEGORY	LOCATION	SPV.0105.016 SURVEY PROJECT 1030-11-70 LS
1000	PROJECT ID 1030-11-70	1
TOTAL		1

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PAVEMENT CLEANUP

CATEGORY	SPV.0105.017 PAVEMENT CLEANUP LS
1000	1
TOTAL	1

TRUCK MOUNTED ATTENUATOR

CATEGORY	LOCATION	SPV.0075.001 TRUCK MOUNTED ATTENUATOR HR
1000	IH 94	
	UNDISTRIBUTED	60
	TOTAL	60

GEOGRID REINFORCEMENT

CATEGORY	LOCATION	SPV.0180.001 SY
1000	SE FRONTAGE ROAD	13,800
	NE FRONTAGE ROAD	16,000
	UNDISTRIBUTED	5,000
	TOTAL	34,800

SAW CUTTING ITEMS

CATEGORY	ROADWAY	FROM STATION	TO STATION	OFFSET	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF	REMARKS
1000	CTH K						
		47+72 -	53+77		--	605	
		50+21 -	57+39		--	718	
	EXISTING EAST FRONTAGE ROAD SOUTH						
		1037+50 -	1045+17	55' RT	--	767	RAMP SE
	EXISTING EAST FRONTAGE ROAD NORTH						
		5055+39 -	5055+80	145' LT	41	--	PARKING LOT
		5057+85 -	5058+42	150' LT	57	--	PARKING LOT
	TOTALS				98	2,090	

FREEWAY LIGHTING – POLES

SYSTEM	POLE I. D. OR LOCATION	6110 SPV.0060.108 TEMPORARY WOOD POLE LIGHTING UNITS
		EACH
HL-51-RJ	WP-CRJ3	1
	WP-DRJ4	1
	WP-CRJ5	1
	WP-DRJ6	1
		4

FREEWAY LIGHTING – WIRE AND CONDUIT

SYSTEM	FROM	CATEGORY TO	1100 652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	1100 652.0335 CONDUIT RIGID NONMETALLIC SCHEDULE 80 3-INCH	6110 655.0620 ELECTRICAL WIRE LIGHTING 8 AWG	6110 SPV.0090.111 OVERHEAD CABLE QUADRUPLEX 6 AWG
			LF	LF	LF	LF
HL-51-RJ	HL-51-RJ	LPB716	-	30	120	-
	LPB716	LPB717	255	-	1060	-
	LPB717	LPB718	100	-	440	-
	LPB718	LPB719	195	-	820	-
	LPB719	WP-CRJ3	15	-	100	-
	WP-CRJ3	WP-DRJ4	-	-	-	190
	WP-DRJ4	WP-CRJ5	-	-	-	185
	WP-CRJ5	WP-DRJ6	-	-	-	160
	HL-51-RJ	LPB715	-	30	-	-
		TOTAL	565	60	2540	535

FREEWAY LIGHTING – PULL BOXES

SYSTEM	DESCRIPTION	STATION	CATEGORY OFFSET	6110 653.0140 PULL BOXES STEEL 24X42-INCH
				EACH
HL-51-RJ	LPB716	45+74WB	93' LT	1
	LPB717	48+07WB	62' LT	1
	LPB718	49+03WB	63' LT	1
	LPB719	50+95WB	72' LT	1
			TOTAL	4

FREEWAY LIGHTING – REMOVAL

SYSTEM	CATEGORY DESCRIPTION	6110 SPV.0060.102 REMOVING LIGHTING UNITS	6110 SPV.0060.103 LAMP DISPOSAL HIGH INTENSITY DISCHARGE	6110 SPV.0090.101 REMOVING OVERHEAD LIGHTING CABLE
		EACH	EACH	LF
EX LIGHTING	CTH K	4	4	1500
	TOTAL	4	4	1500

FREEWAY LIGHTING – MISCELLANEOUS

SYSTEM	CATEGORY DESCRIPTION	6110 654.0215 CONCRETE CONTROL CABINET BASES TYPE 9	6110 656.0400.001 ELECTRICAL SERVICE MAIN LUGS ONLY METER PEDESTAL HL-51-RJ	6110 659.0802 PLAQUES SEQUENCE IDENTIFICATION	6110 SPV.0060.100 INSTALLING STATE FURNISHED DISTRIBUTION CENTERS	6110 SPV.0105.111 FREEWAY LIGHTING INTEGRATOR I.D. 1030-11-70
		EACH	LS	EACH	EACH	LS
HL-51-RJ	CONTROLLER HL-51-RJ	1	1	4	1	-
	CONTRACT 1030-11-70	-	-	-	-	1
	TOTAL	1	1	4	1	1

DISTRIBUTION CENTER PLAQUES
(2) - 480V WARNING
(1) - HL-51-RJ
(1) - CTH K

3

Division	From/To Station	Location	Common Excavation (1)	(item # 205.0100)	Salvaged/Unusable Pavement Material (4)	Available Material (5)	Marsh Excavation (6)	Rock Excavation (7)	Reduced Marsh in Fill (8)	Reduced EBS in Fill (9)	Expanded Marsh Backfill (10)	Expanded EBS Backfill (11)	Expanded Rock (12)	Unexpanded Fill	Expanded Fill (13)	Mass Ordinate +/- (14)	Waste	Borrow	Comment:
			Cut (2)	EBS Excavation (3)			(item #205.0500)	(item #205.0200)	Factor 0.60	Factor 0.80	Factor 1.50	Factor 1.30	Factor 1.10		Factor 1.25			(item #208.0100)	
Division 1																			
A&W Access Road	00+29 to 13+50		1,417	0	0	1,417	0	0	0	0	0	0	0	5,871	7,339	-5,921	0	-5,921	
Adams Road	9+00 to 13+50		752	0	0	752	0	0	0	0	0	0	0	1,002	1,253	-501	0	-501	
Division 1 Subtotal			2,169	0	0	2,169	0	0	0	0	0	0	0	6,873	8,592	-6,422	0	-6,422	
Grand Total			2,169.29	0.00	0.00	2,169.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6,873.25	8,591.57	-6,422.28	0.00	-6,422.28	
Total Common Exc				2,169.29															

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 Borrow material. Note: this is designers choice, can be backfilled with Borrow, or Cut as well.
4) Salvaged/Unusable Pavement Material
5) Available Material = Cut - Salvaged/Unusuable Pavement Material
6) Marsh Excavation - to be backfilled with Select Borrow Material. Note: this is designers choice, can be backfilled with Borrow, or Cut as well. Item number 20505
7) Rock Excavation item number 205.0200
8) Reduced Marsh in Fill - Excavated Marsh material is usuable in Fills outside the 1:1 slope. Marsh in Fill Reduction factor = 0.6
9) Reduced EBS in Fill - Excavated EBS material is usuable in Fills outside the 1:1 slope. EBS in Fill Reduction factor = 0.8
10) Expanded Marsh Backfill - This is to be filled with Select Borrow material. Marsh Backfill Factor = 1.5. Item number 208.1100
11) Expanded EBS Backfill - This is to be filled with Select Borrow material. EBS Backfill Factor = 1.3. Item number 208.1100
12) Expanded Rock - Factor = 1.1
13) Expanded Fill. Factor = 1.25
Depending on selections: **Expanded Fill = (Unexpanded Fill - Rock* Rock Factor - Reduced Marsh - Reduced EBS) * Fill Factor**
Or Expanded Fill = (Unexpanded Fill - Rock* Rock Factor - Reduced EBS) * Fill Factor
Or Expanded Fill = (Unexpanded Fill - Rock* Rock Factor - Reduced Marsh) * Fill Factor
Or Expanded Fill = (Unexpanded Fill - Rock* Rock Factor) * Fill Factor
14) 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.
15) Use 111,764 CY of material from Division 1. Borrow Excavation item number 208.0100

TYPE II PERMANENT SIGNING - CONTRACT REVISION

1030-11-70 IH 94 at K

SIGN NO.	SIGN CODE	SIGN MESSAGE	SIGN SIZE W [IN.] x H [IN.]	637.0202 SIGNS REFLC TYPE II [SF]	634.0816 POSTS TUBULAR STEEL 2 X 2 X 16 FT [EA]	638.2602 REMOVING SIGNS TYPE II (EA)	638.3000 REMOVING SMALL SIGN SUPPORTS (EA)	REMARKS / NEW SIGN LOCATION
3-23	R1-1 (2S)		30 X 30	5.18	1			
3-24	W3-1 (2S)		36 X 36	9.00	1			
3-25	W3-1 (2S)		36 X 36	9.00	1			
3-26	R5-2 (2S)		24 X 24	4.00				MOUNT UNDER SIGN 3-27
3-27	R2-1 (2S)		24 X 30	5.00	1			
6-10	R5-2 (2S)		24 X 24	4.00	1	1	1	
6-11	W1-2R					1		MOUNTED WITH SIGN 6-10
6-12	R2-1 (2S)					1		MOUNTED WITH SIGN 6-10
6-13	R2-1 (2S)		24 X 30	5.00	1			
6-14	R1-1 (2S)	--	30 x 30	5.18	1			--
6-15	R1-1 (2S)	--	30 X 30	5.18	1			--
6-16	R1-1 (2S)	--	30 X 30	5.18	1			--
6-17	W5-56 (2M)	--	18 X 18	2.25	1			4 FOOT MOUNTING HEIGHT
6-18	W5-56 (2M)	--	18 X 18	2.25	1			4 FOOT MOUNTING HEIGHT
6-19	W5-56 (2M)	--	18 X 18	2.25	1			4 FOOT MOUNTING HEIGHT
6-20	W3-1 (2S)		36 X 36	9.00	1			
TOTALS				72.47	13	3	1	

TRANSPORTATION PROJECT PLAT NO: 1030-11-20 - 4.01

THAT PART OF THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 25, TOWNSHIP 04 NORTH, RANGE 21 EAST, IN THE TOWN OF RAYMOND, RACINE COUNTY, WISCONSIN.

AMENDMENT NO.2:

AMENDS PARCEL NO. 12,13,14 AND EXISTING C/L IH-94 OF TRANSPORTATION PROJECT PLAT NO. 1030-11-20 - 4.01
AMENDMENT NO. 1 RECORDED AS DOCUMENT NO. 2245538

RELOCATION ORDER I-94 @ CTH "K" RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

LINE COURSE TABLE

LINE	PARCEL	BEARING	DISTANCE
L1	1	S 77°42'30" E	57.42'
L2	1	S 44°08'40" E	26.58'
L3	8	N 46°11'12" E	35.48'
L4	8	N 01°22'51" E	150.70'
L5	12	N 43°52'04" W	51.31'
L6	12	N 44°57'15" E	81.43'
L7	8	N 89°00'27" W	29.65'
L8	10	N 00°59'33" E	31.95'
L9	46	N 00°59'33" E	148.70'
L10	2	N 00°59'33" E	208.70'
L11	2	N 89°00'27" W	99.00'
L12	2	N 00°43'07" E	145.70'
L13	2	N 89°00'27" W	100.00'
L14	14	N 44°27'03" W	67.62'
L15	1	N 89°00'27" W	8.65'
L16	10	N 00°59'33" E	148.70'

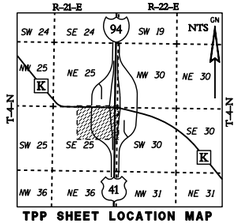
BASIS OF RIGHT-OF-WAY

HWY	BASIS OF EXIST R/W	YEAR	WIDTH
I-94/USH 41	DJ 2381	1935	VARIES
I-94/USH 41	DJ 2277	1934	VARIES
I-94/USH 41	I 101-1 (3)	1956	VARIES
CTH "K"	I 101-1 (3)	1956	VARIES
CTH "K"	BY STATUTE 82.81	----	66'
CTH "K"	2804-2-71	1972	VARIES

The most current Right of Way information should be viewed in DOTView using the Real Estate project ID. The plat information contained in this as-built plan may not be the final record.

GENERAL NOTES;

FOR THE PURPOSE OF HORIZONTAL ADJUSTMENT, WISCONSIN DOT SOUTHEAST REGION SURVEY HAS FIELD VERIFIED GPS CONTROL STATIONS FOR THE FOLLOWING TOWNSHIPS: YORKVILLE EAST, RAYMOND NORTH AND RAYMOND SOUTH.



TPP SHEET LOCATION MAP

COORDINATES AND BEARINGS ON THE PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY, (ENGLISH), NAD 1983 (1997) ADJUSTMENT. ALL DISTANCES ARE GROUND LENGTH.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY WISCONSIN DOT SOUTHEAST REGION SURVEY.

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

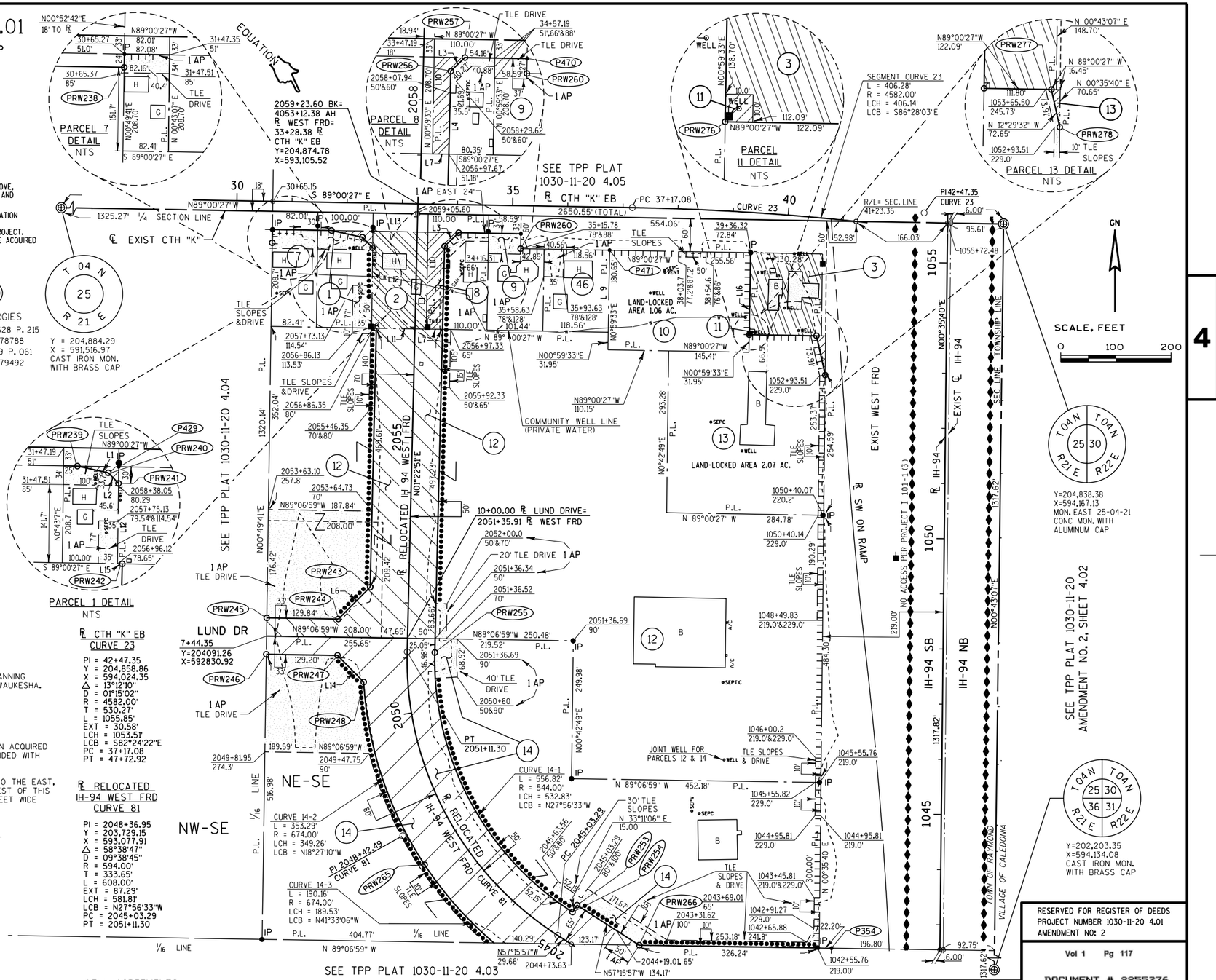
I-94 ACCESS WAS PREVIOUSLY CONTROLLED PER PROJECT I 101-1 (3).

PLAT NOTES;

THE CONSULTANT IS NOT RESPONSIBLE FOR PARCEL 2, WHICH HAS BEEN ACQUIRED ON A PREVIOUS PLAT PREPARED BY DOT. THE CONSULTANT WAS PROVIDED WITH THE EXISTING C/L IH-94 VIA DOT SE DISTRICT 05/2010

BASED ON LEGAL DESCRIPTIONS FOR PARCELS 1, 2, 3, 8, 9, 10 AND 13 TO THE EAST, OCCUPATION LINES TO THE EAST, AND THE SIXTEENTH LINE TO THE WEST OF THIS PART OF PARCEL 7, THE WIDTH OF PARCEL 7 IS APPROXIMATELY 82 FEET WIDE INSTEAD OF THE RECORDED 100.00 FEET.

COMMUNITY WELL ON PARCEL 11 SERVING PARCELS 3,7,8,10 & 12 TO BE CAPPED AT EAST R/W LINE OF WEST RELOCATED FRONTAGE ROAD. PARCEL 7 TO BE SERVED BY NEW WELL.



PARCEL 1 DETAIL
NTS

℄ CTH "K" EB CURVE 23
PI = 42+47.35
Y = 204,858.86
X = 594,024.35
△ = 13°12'10"
D = 01°15'02"
R = 4582.00'
T = 530.27'
L = 1055.85'
EXT = 30.58'
LCH = 1053.51'
LCB = S82°24'22"E
PC = 37+17.08
PT = 47+72.92

℄ RELOCATED IH-94 WEST FRD CURVE 81
PI = 2048+36.95
Y = 203,729.15
X = 593,077.91
△ = 58°38'47"
D = 09°38'45"
R = 594.00'
T = 333.65'
L = 608.00'
EXT = 87.29'
LCH = 581.81'
LCB = N27°56'33"W
PC = 2045+03.29
PT = 2051+11.30

SEGMENT CURVE 23
L = 406.28'
R = 4582.00'
LCH = 406.14'
LCB = S86°28'03"E

SCHEDULE OF LANDS AND INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	TLE TEMP. ACRES
1	RICHARD A. & DEBRA E. BAUMANN	FEE,AR,TLE	0.016	0.076	0.092	0.124
2	KENDALL A. & CATHERINE McCANN	FEE	0.401	0.076	0.477	0.000
3	DONATH A.ROETTGERS VENDOR & HWY K, LLC VENDEE	FEE	0.446	0.000	0.440	0.000
7	CHAD J. WILKS	FEE,AR,TLE	0.000	0.062	0.062	0.064
8	ROBERT LUND	FEE,AR,TLE	0.130	0.083	0.213	0.041
9	SHELIA M. JORGENSEN	FEE,AR,TLE	0.000	0.044	0.044	0.050
10	THOMAS A HRIBAR	AR,TLE	0.000	0.000	0.000	0.012
11	ROBERT E. & ROBERTA H. TUGENBERG	FEE	0.002	0.000	0.002	0.000
12	SCOTT MILES TRUST	FEE,AR,TLE	1.724	0.000	1.724	0.975
13	FRANKLIN H. & SHARON F WELCH	FEE,AR,TLE	0.013	0.000	0.013	0.081
14	JAVCO REALTY LLP	FEE,AR,TLE	2.155	0.000	2.155	1.151
46	THOMAS B. & JUDITH A. KING	AR,TLE	0.000	0.000	0.000	0.040
50	VACATED	---	---	---	---	---
100	WE ENERGIES	ROR	---	---	---	---

WELL AGREEMENTS

PARCEL	VOLUME	DOCUMENT
7	V. 574 P. 161	DOC. 630776
3,7,8,10,12	V. 753 P. 052	DOC. 740847
3,7,8,10,12	V. 840 P. 139	DOC. 778188
1	V. 561 P. 170	DOC. 617584
2	V. 574 P. 163	DOC. 630777
12,14	V. 1753 P. 496	DOC. 1169486

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOC. 2219602 IN THE RACINE COUNTY REGISTER OF DEEDS

I, TIMOTHY JOHNSON, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION-SOUTHEAST REGION, HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1030-11-20 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

STATE OF WISCONSIN
TIMOTHY JOHNSON
NO. S-2156
EAST TROY WIS.
REGISTERED LAND SURVEYOR

BLOOM COMPANIES, LLC
Infrastructure Innovation and Ingenuity

DATE 7-6-2010
TIMOTHY JOHNSON, RLS NUMBER S-2156

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION SOUTHEAST REGION.
DATE 6-29-2010
DOT

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-11-20 4.01
AMENDMENT NO: 2

Vol 1 Pg 117

DOCUMENT # 2255376
RACINE COUNTY REGISTER OF DEEDS
July 13, 2010 4:45 PM
JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 1

FILE NAME : F:\BM1-1644D CTH K\Survey\ck_040401_rp.dgn PLOT DATE : 07-JUL-2010 10:59 PLOT BY : jmueller PLOT NAME : PLOT SCALE : 100:1
THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE RACINE COUNTY REGISTER OF DEEDS.

TRANSPORTATION PROJECT PLAT NO: 1030-11-20 - 4.02

THAT PART OF THE NORTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 30, TOWNSHIP 4 NORTH, RANGE 22 EAST, IN THE VILLAGE OF CALEDONIA, RACINE COUNTY, WISCONSIN.

AMENDMENT NO.2:

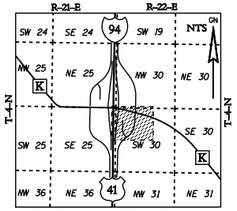
AMENDS EXISTING C/L IH-94 OF TRANSPORTATION PROJECT PLAT NO. 1030-11-20 - 4.02 AMENDMENT NO. 1 RECORDED AS DOCUMENT NO. 2219602

RELOCATION ORDER I-94 @ CTH "K" RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
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TPP SHEET LOCATION MAP

GN

SCALE, FEET

0 100 200

BASIS OF RIGHT-OF-WAY

HWY	BASIS OF EXIST R/W	YEAR	WIDTH
I-94/USH 41	DJ 2381	1935	VARIES
I-94/USH 41	DJ 2277	1934	VARIES
I-94/USH 41	I 101-1 (3)	1956	VARIES
CTH "K"	I 101-1 (3)	1956	VARIES
CTH "K"	BY STATUTE 82.81	----	66'
CTH "K"	2804-2-71	1972	VARIES

GENERAL NOTES:

COORDINATES AND BEARINGS ON THE PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY, (ENGLISH), NAD 1983 (1997) ADJUSTMENT. ALL DISTANCES ARE GROUND LENGTH.

FOR THE PURPOSE OF HORIZONTAL ADJUSTMENT, WISCONSIN DOT SOUTHEAST REGION SURVEY HAS FIELD VERIFIED GPS CONTROL STATIONS FOR THE FOLLOWING TOWNSHIPS: YORKVILLE EAST, RAYMOND NORTH AND RAYMOND SOUTH.

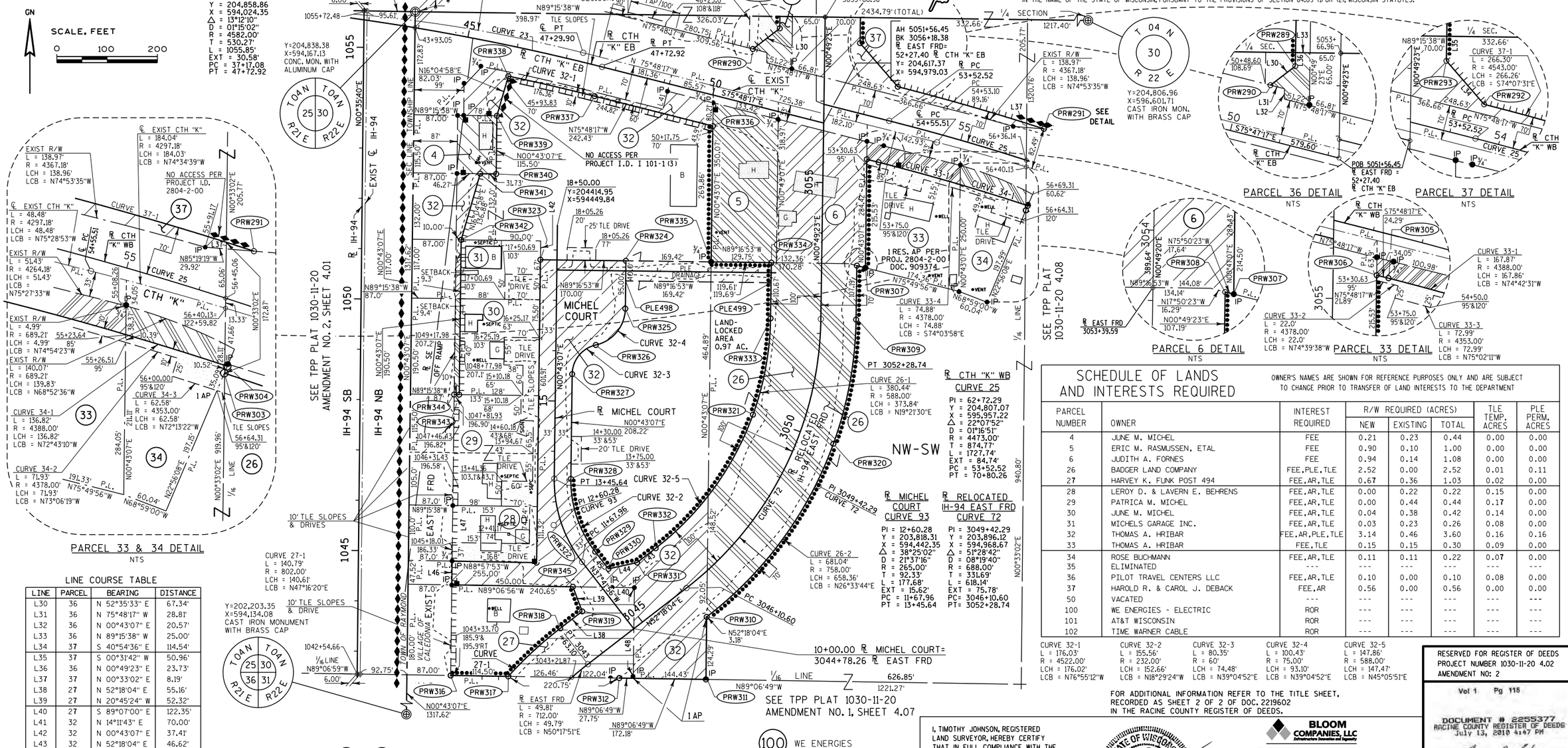
RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY WISCONSIN DOT SOUTHEAST REGION SURVEY.

I-94 ACCESS WAS PREVIOUSLY CONTROLLED PER PROJECT I 101-1(3).

TLE IMPACTS FOR PARCELS 28,29 AND 30 SHALL NOT APPLY IN AREAS OCCUPIED BY EXISTING BUILDINGS.

PLAT NOTE:

THE CONSULTANT IS NOT RESPONSIBLE FOR PARCELS 4, 5 AND 6, WHICH WERE ACQUIRED ON A PREVIOUS PLAT PREPARED BY DOT. THE CONSULTANT WAS PROVIDED WITH THE EXISTING C/L IH-94 VIA DOT SE DISTRICT 05/2010


SEE TPP PLAT 1030-11-20 AMENDMENT NO. 1, SHEET 4.09
SEE TPP PLAT 1030-11-20 AMENDMENT NO. 2, SHEET 4.01
SEE TPP PLAT 1030-11-20 4.08
SEE TPP PLAT 1030-11-20 AMENDMENT NO. 1, SHEET 4.07
℄ EXIST CTH "K"
L = 340.29'
R = 2864.29'
LCH = 340.09'
LCB = S79°12'27"E
℄ CTH "K" EB CURVE 23
PI = 42+47.35
Y = 204,858.86
X = 594,024.35
△ = 13°12'10"
D = 01°15'02"
R = 4582.00'
T = 530.27'
L = 1055.85'
EXT = 30.58'
PC = 37+17.08
PT = 47+72.92
℄ CTH "K" EB CURVE 32-1
℄ CTH "K" EB CURVE 32-2
℄ CTH "K" EB CURVE 32-3
℄ CTH "K" EB CURVE 32-4
℄ CTH "K" EB CURVE 32-5
℄ CTH "K" WB CURVE 25
℄ CTH "K" WB CURVE 33-1
℄ CTH "K" WB CURVE 33-2
℄ CTH "K" WB CURVE 33-3
℄ CTH "K" WB CURVE 33-4
℄ CTH "K" WB CURVE 34-1
℄ CTH "K" WB CURVE 34-2
℄ CTH "K" WB CURVE 37-1
℄ EXIST CTH "K" L = 340.29' R = 2864.29' LCH = 340.09' LCB = S79°12'27"E
℄ EXIST CTH "K" L = 184.04' R = 4297.18' LCH = 184.03' LCB = N74°43'39"W
℄ EXIST CTH "K" L = 48.48' R = 4297.18' LCH = 48.48' LCB = N75°28'53"W
℄ EXIST CTH "K" L = 184.04' R = 4297.18' LCH = 184.03' LCB = N74°43'39"W
℄ R CTH "K" EB
℄ R CTH "K" WB
℄ R EAST FRD
℄ R MICHEL COURT
℄ R RELOCATED IH-94 EAST FRD
℄ EXIST IH-94
℄ EXIST CTH "K"
℄ EXIST R/W L = 138.97' R = 4367.18' LCH = 138.96' LCB = N74°53'35"W
℄ EXIST R/W L = 138.97' R = 4367.18' LCH = 138.96' LCB = N74°53'35"W
℄ EXIST R/W L = 51.43' R = 4264.18' LCH = 51.43' LCB = N75°27'33"W
℄ EXIST R/W L = 4.99' R = 689.21' LCH = 4.99' LCB = N74°54'23"W
℄ EXIST R/W L = 140.07' R = 689.21' LCH = 139.83' LCB = N68°52'36"W
℄ EXIST R/W L = 136.82' R = 4388.00' LCH = 136.82' LCB = N72°43'10"W
℄ EXIST R/W L = 136.82' R = 4388.00' LCH = 136.82' LCB = N72°43'10"W
℄ EXIST R/W L = 138.97' R = 4367.18' LCH = 138.96' LCB = N74°53'35

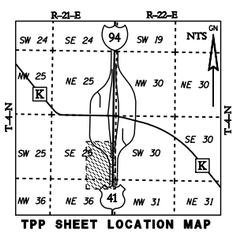
TRANSPORTATION PROJECT PLAT NO: 1030-11-20 - 4.03

THAT PART OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 25, TOWNSHIP 4 NORTH, RANGE 21 EAST, IN THE TOWN OF RAYMOND, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER I-94 @ CTH "K" RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.



TPP SHEET LOCATION MAP

GENERAL NOTES:

COORDINATES AND BEARINGS ON THE PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY, (ENGLISH), NAD 1983 (1997) ADJUSTMENT. ALL DISTANCES ARE GROUND LENGTH.

FOR THE PURPOSE OF HORIZONTAL ADJUSTMENT, WISCONSIN DOT SOUTHEAST REGION SURVEY HAS FIELD VERIFIED GPS CONTROL STATIONS FOR THE FOLLOWING TOWNSHIPS: YORKVILLE EAST, RAYMOND NORTH AND RAYMOND SOUTH.

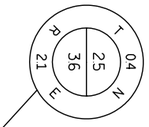
RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY WISCONSIN DOT SOUTHEAST REGION SURVEY.

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

I-94 ACCESS WAS PREVIOUSLY CONTROLLED PER PROJECT I 101-1 (3).

BASIS OF RIGHT-OF-WAY

HWY	BASIS OF EXIST R/W	YEAR	WIDTH
I-94/USH 41	DJ 2381	1935	VARIES
I-94/USH 41	DJ 2277	1934	VARIES
I-94/USH 41	I 101-1 (3)	1956	VARIES
3 MILE ROAD	BY STATUTE 82.81	---	66'



Y=202,239.33
X=591,473.71
CAST IRON MONUMENT
WITH BRASS CAP

SCHEDULE OF LANDS AND INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

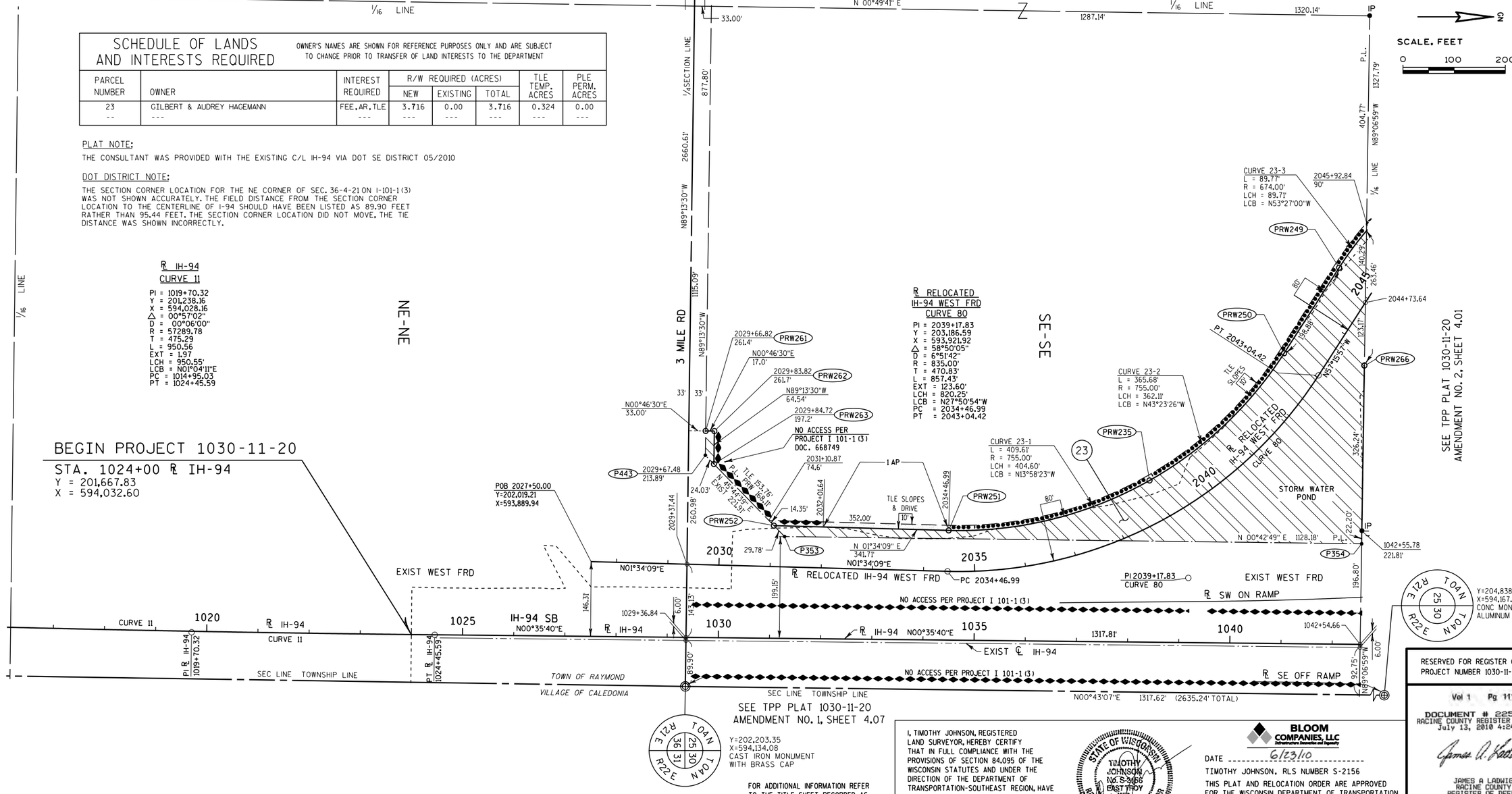
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	TLE TEMP. ACRES	PLE PERM. ACRES
23	GILBERT & AUDREY HAGEMANN	FEE, AR, TLE	3.716	0.00	3.716	0.324	0.00
--	---	---	---	---	---	---	---

PLAT NOTE:

THE CONSULTANT WAS PROVIDED WITH THE EXISTING C/L IH-94 VIA DOT SE DISTRICT 05/2010

DOT DISTRICT NOTE:

THE SECTION CORNER LOCATION FOR THE NE CORNER OF SEC. 36-4-21 ON I-101-1 (3) WAS NOT SHOWN ACCURATELY. THE FIELD DISTANCE FROM THE SECTION CORNER LOCATION TO THE CENTERLINE OF I-94 SHOULD HAVE BEEN LISTED AS 89.90 FEET RATHER THAN 95.44 FEET. THE SECTION CORNER LOCATION DID NOT MOVE. THE TIE DISTANCE WAS SHOWN INCORRECTLY.



SEE TPP PLAT 1030-11-20 AMENDMENT NO. 1, SHEET 4.07

Y=202,203.35
X=594,134.08
CAST IRON MONUMENT
WITH BRASS CAP

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOC. 2219602 IN THE RACINE COUNTY REGISTER OF DEEDS

I, TIMOTHY JOHNSON, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION-SOUTHEAST REGION, HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1030-11-20 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.



BLOOM COMPANIES, LLC

DATE 6/23/10

TIMOTHY JOHNSON, RLS NUMBER S-2156

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION SOUTHEAST REGION.

DATE 6-29-2010

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-11-20 4.03

Vol 1 Pg 111

DOCUMENT # 2255370
RACINE COUNTY REGISTER OF DEEDS
July 13, 2010 4:24 PM

JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 1

FILE NAME : F:\BM1-1644D CTH K\Survey\ck_040403_rp.dgn PLOT DATE : 23-JUN-2010 14:21 PLOT BY : Kdew PLOT NAME : PLOT SCALE : 100:1

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE RACINE COUNTY REGISTER OF DEEDS.

CONST. 1030-11-70 CTH K R/W 1030-11-20 4.03

TRANSPORTATION PROJECT PLAT NO: 1030-11-20 - 4.04

THAT PART OF PARCEL 1, CSM 2749, THAT PART OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4, THAT PART OF THE SOUTHEAST 1/4 OF THE NORTHWEST 1/4, THAT PART OF THE NORTHWEST 1/4 OF THE SOUTHEAST 1/4, OF SECTION 25, TOWNSHIP 4 NORTH, RANGE 21 EAST, IN THE TOWN OF RAYMOND, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER I-94 @ CTH "K" RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

TPP SHEET LOCATION MAP

SCHEDULE OF LANDS AND INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

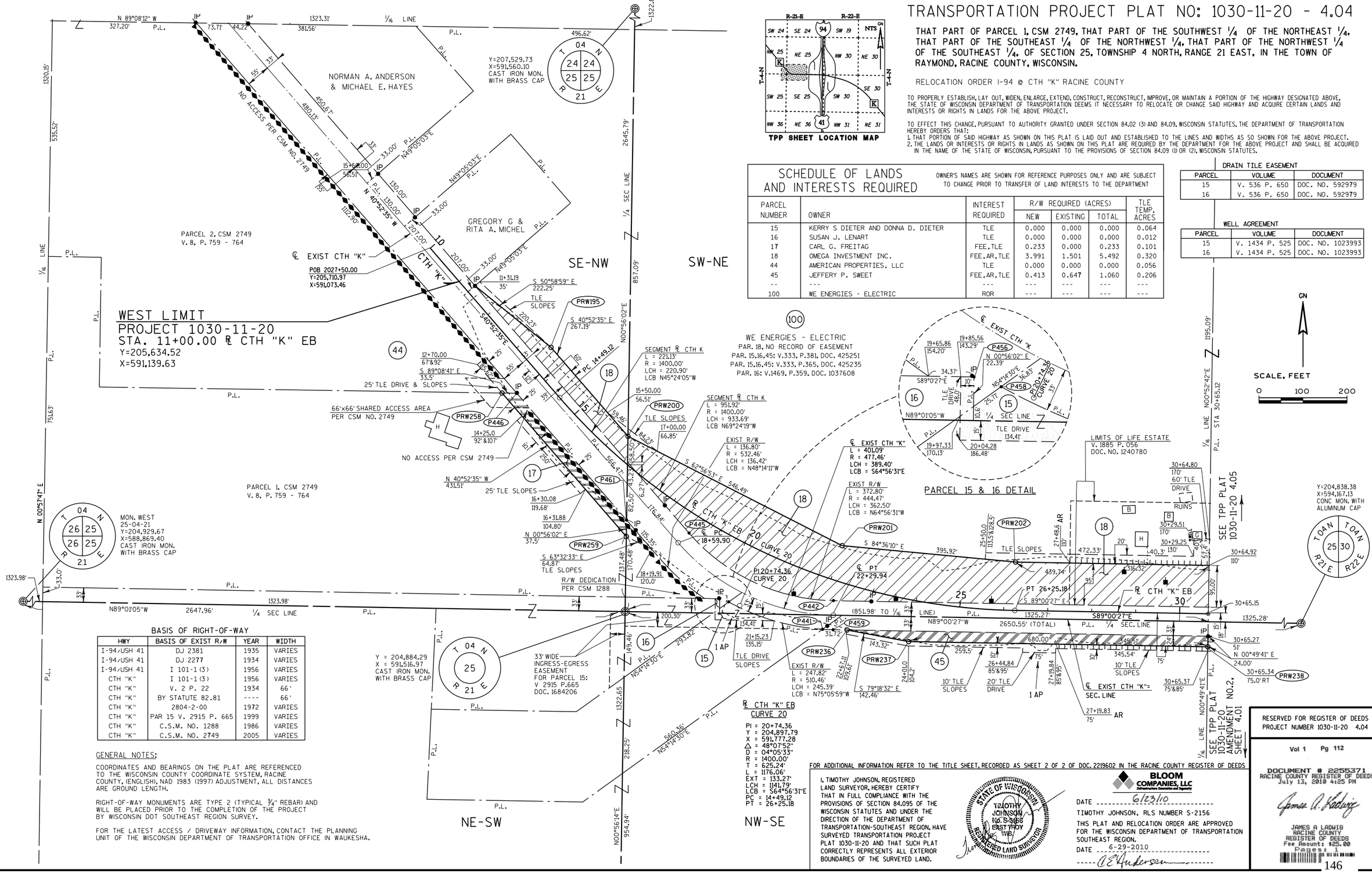
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	TLE TEMP. ACRES
15	KERRY S DIETER AND DONNA D. DIETER	TLE	0.000	0.000	0.000	0.064
16	SUSAN J. LENART	TLE	0.000	0.000	0.000	0.012
17	CARL G. FREITAG	FEE,TLE	0.233	0.000	0.233	0.101
18	OMEGA INVESTMENT INC.	FEE,AR,TLE	3.991	1.501	5.492	0.320
44	AMERICAN PROPERTIES, LLC	TLE	0.000	0.000	0.000	0.056
45	JEFFERY P. SWEET	FEE,AR,TLE	0.413	0.647	1.060	0.206
--	---	---	---	---	---	---
100	WE ENERGIES - ELECTRIC	ROR	---	---	---	---

DRAIN TILE EASEMENT

PARCEL	VOLUME	DOCUMENT
15	V. 536 P. 650	DOC. NO. 592979
16	V. 536 P. 650	DOC. NO. 592979

WELL AGREEMENT

PARCEL	VOLUME	DOCUMENT
15	V. 1434 P. 525	DOC. NO. 1023993
16	V. 1434 P. 525	DOC. NO. 1023993



BASIS OF RIGHT-OF-WAY

HWY	BASIS OF EXIST R/W	YEAR	WIDTH
I-94/USH 41	DJ 2381	1935	VARIES
I-94/USH 41	DJ 2277	1934	VARIES
I-94/USH 41	I 101-1(3)	1956	VARIES
CTH "K"	I 101-1(3)	1956	VARIES
CTH "K"	V. 2 P. 22	1934	66'
CTH "K"	BY STATUTE 82.81	----	66'
CTH "K"	2804-2-00	1972	VARIES
CTH "K"	PAR 15 V. 2915 P. 665	1999	VARIES
CTH "K"	C.S.M. NO. 1288	1986	VARIES
CTH "K"	C.S.M. NO. 2749	2005	VARIES

GENERAL NOTES:

COORDINATES AND BEARINGS ON THE PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY, (ENGLISH), NAD 1983 (1997) ADJUSTMENT, ALL DISTANCES ARE GROUND LENGTH.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY WISCONSIN DOT SOUTHEAST REGION SURVEY.

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOC. 2219602 IN THE RACINE COUNTY REGISTER OF DEEDS

I, TIMOTHY JOHNSON, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION-SOUTHEAST REGION, HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1030-11-20 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

STATE OF WISCONSIN
TIMOTHY JOHNSON
NO. S-2156
EAST TROY
WI
REGISTERED LAND SURVEYOR

BLOOM COMPANIES, LLC
Infrastructure Innovation and Ingenuity

DATE 6/23/10

TIMOTHY JOHNSON, RLS NUMBER S-2156

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION SOUTHEAST REGION.

DATE 6-29-2010

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-11-20 4.04

Vol 1 Pg 112

DOCUMENT # 2255371
RACINE COUNTY REGISTER OF DEEDS
July 13, 2010 4:25 PM

JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 1

FILE NAME : F:\BM1-1644D CTH K\Survey\ck_040404_rp.dgn PLOT DATE : 23-JUN-2010 14:21 PLOT BY : kdew PLOT NAME : PLOT SCALE : 100:1

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE RACINE COUNTY REGISTER OF DEEDS.

CONST. 1030-11-70 CTH K R/W 1030-11-20 4.04

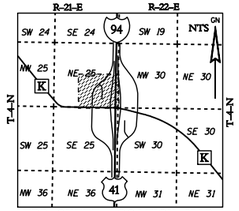
TRANSPORTATION PROJECT PLAT NO: 1030-11-20 - 4.05

THAT PART OF THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 25, TOWNSHIP 4 NORTH, RANGE 21 EAST, IN THE TOWN OF RAYMOND, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER I-94 @ CTH "K" RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.



TPP SHEET LOCATION MAP

BASIS OF RIGHT-OF-WAY

HWY	BASIS OF EXIST R/W	YEAR	WIDTH
I-94/USH 41	DJ 2381	1935	VARIES
I-94/USH 41	DJ 2277	1934	VARIES
I-94/USH 41	I 101-1 (3)	1956	VARIES
CTH "K"	I 101-1 (3)	1956	VARIES
CTH "K"	V. 2 P. 22	1934	66'
CTH "K"	BY STATUTE 82.81	----	66'
CTH "K"	2804-2-71	1972	VARIES

GENERAL NOTES:

COORDINATES AND BEARINGS ON THE PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY, (ENGLISH), NAD 1983 (1997) ADJUSTMENT. ALL DISTANCES ARE GROUND LENGTH.

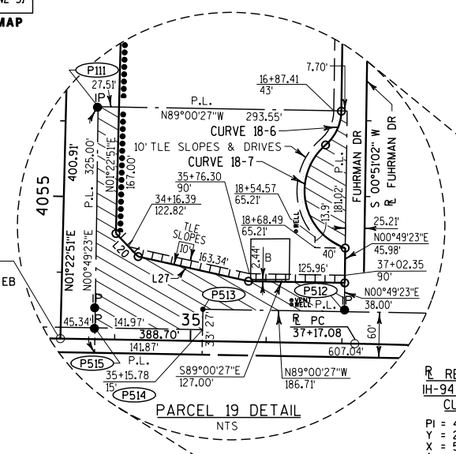
RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY WISCONSIN DOT SOUTHEAST REGION SURVEY.

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

I-94 ACCESS WAS PREVIOUSLY CONTROLLED PER PROJECT I 101-1 (3).

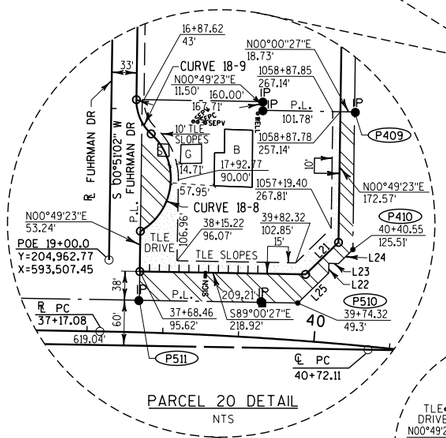
PLAT NOTE:

THE CONSULTANT WAS PROVIDED WITH THE EXISTING C/L IH-94 VIA DOT SE DISTRICT 05/2010

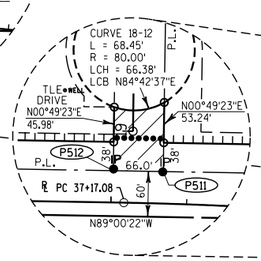


PARCEL 19 DETAIL
NTS

2059+23.60 BK=
4053+12.38 AH
℄ WEST FRD=
33+28.39 ℄ CTH "K" EB
Y=204,874.78
X=593,105.52



PARCEL 20 DETAIL
NTS



PARCEL 18 DETAIL
NTS

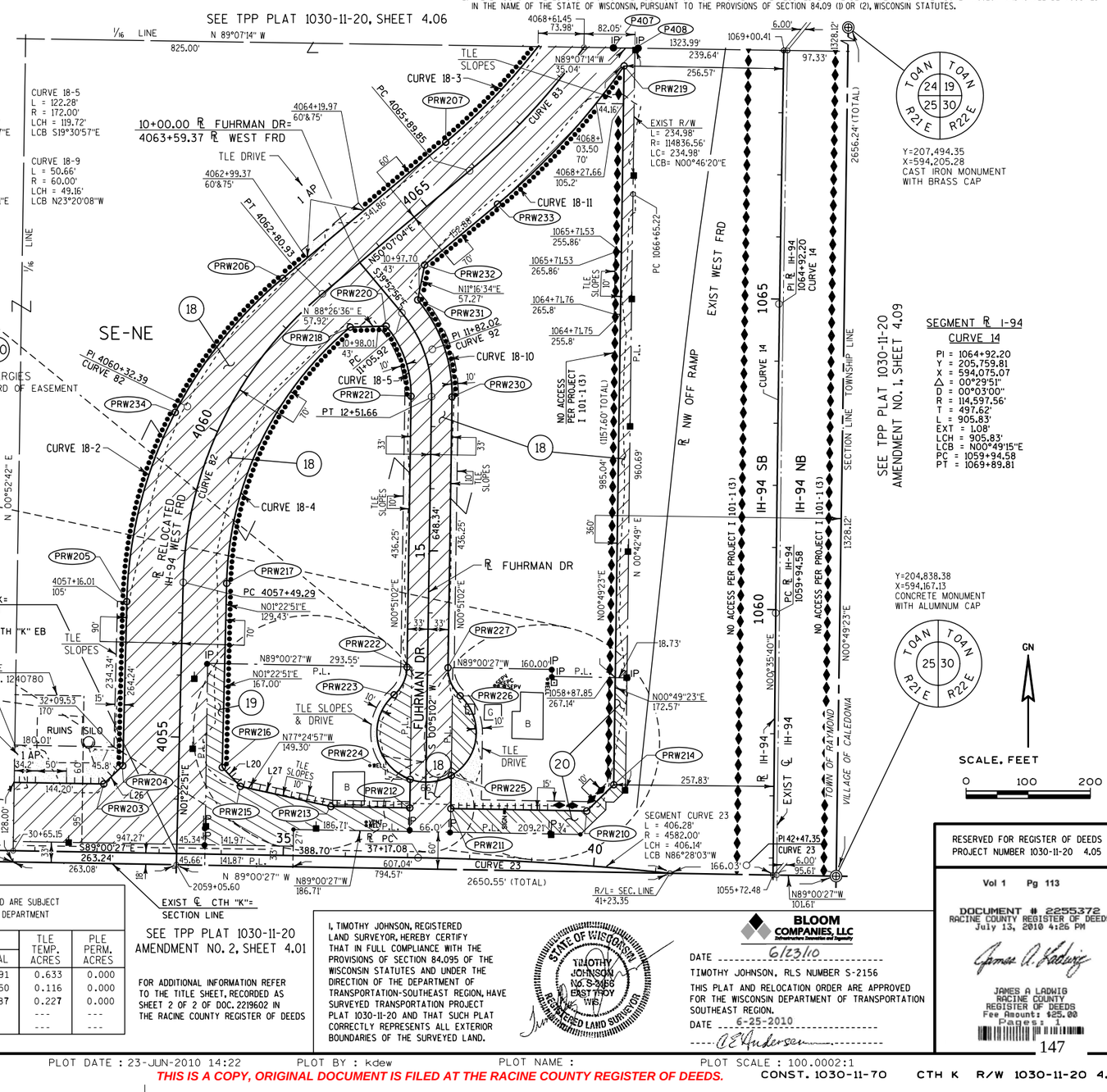
CURVE 18-2	CURVE 18-3	CURVE 18-4	CURVE 18-5
L = 595.75'	L = 214.25'	L = 472.10'	L = 122.28'
R = 700.37'	R = 1005.00'	R = 555.00'	R = 172.00'
LCH = 577.95'	LCH = 213.84'	LCH = 457.99'	LCH = 119.72'
LCB N25°44'57"E	LCB N44°00'38"E	LCB N25°44'57"E	LCB S19°30'57"E
CURVE 18-6	**CURVE 18-7**	**CURVE 18-8**	**CURVE 18-9**
L = 50.66'	L = 167.56'	L = 150.41'	L = 50.66'
R = 60.00'	R = 80.00'	R = 80.00'	R = 60.00'
LCH = 49.16'	LCH = 138.57'	LCH = 129.21'	LCH = 49.16'
LCB S25°02'13"W	LCB S10°46'41"E	LCB N06°20'21"E	LCB N23°20'08"W
CURVE 18-10	**CURVE 18-11**		
L = 169.20'	L = 302.65'		
R = 238.00'	R = 1135.00'		
LCH = 165.66'	LCH = 301.75'		
LCB N19°30'57"W	LCB N42°28'43"E		

℄ RELOCATED IH-94 WEST FRD CURVE 82	℄ RELOCATED IH-94 WEST FRD CURVE 83
PI = 4060+32.39	PI = 4070+75.49
Y = 205,594.58	Y = 206,285.58
X = 593,122.87	X = 593,949.82
△ = 48°44'14"	△ = 49°01'33"
D = 09°10'02"	D = 05°22'48"
R = 625.00'	R = 1065.00'
T = 283.10'	T = 485.64'
L = 531.64'	L = 911.28'
EXT = 61.13'	EXT = 105.50'
LCH = 515.76'	LCH = 883.73'
LCB = N25°44'57"E	LCB = N25°36'18"E
PC = 4057+49.29	PC = 4065+89.85
PT = 4062+80.93	PT = 4075+01.13

℄ FUHRMAN DR CURVE 92	℄ CTH "K" EB CURVE 23
PI = 11+82.02	PI = 42+47.35
Y = 205,686.73	Y = 204,858.86
X = 593,517.01	X = 594,024.35
△ = 40°43'58"	△ = 13°12'10"
D = 27°56'57"	D = 01°15'02"
R = 205.00'	R = 4582.00'
T = 76.10'	T = 530.27'
L = 145.74'	L = 1055.85'
EXT = 13.67'	EXT = 30.58'
LCH = 142.69'	LCH = 1053.51'
LCB = S19°30'57"E	LCB = S82°24'22"E
PC = 11+05.92	PC = 37+17.08
PT = 12+51.66	PT = 47+72.92

SEE TPP PLAT 1030-11-20 4.04

SEE TPP PLAT 1030-11-20, SHEET 4.06



SEE TPP PLAT 1030-11-20 AMENDMENT NO. 2, SHEET 4.01

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOC. 2219602 IN THE RACINE COUNTY REGISTER OF DEEDS

LINE COURSE TABLE

LINE	PARCEL	BEARING	DISTANCE
L20	19	N 43°48'48" W	42.28'
L21	20	N 45°51'11" E	60.57'
L22	20	N 00°49'23" E	12.61'
L23	20	S 89°00'27" E	12.58'
L24	20	N 45°51'11" E	26.49'
L25	20	N 45°51'11" E	56.99'
L26	18	N 46°11'12" E	42.57'
L27	19	S 77°24'57" E	149.30'

SCHEDULE OF LANDS AND INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	TLE TEMP. ACRES	PLE PERM. ACRES
18	OMEGA INVESTMENTS, INC.	FEE,AR,TLE	7.057	0.234	7.291	0.633	0.000
19	RONALD R. ZIMMERMAN	FEE,AR,TLE	0.742	0.108	0.850	0.116	0.000
20	CORRINE L. MARITA	FEE,AR,TLE	0.387	0.000	0.387	0.227	0.000
--	---	---	---	---	---	---	---
100	WE ENERGIES - ELECTRIC	ROR	---	---	---	---	---

I, TIMOTHY JOHNSON, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION-SOUTHEAST REGION, HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1030-11-20 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

STATE OF WISCONSIN
TIMOTHY JOHNSON
NO. S-2156
EAST TROY WI
REGISTERED LAND SURVEYOR

BLOOM COMPANIES, LLC
Infrastructure Innovation and Ingenuity

DATE 6/23/10
TIMOTHY JOHNSON, RLS NUMBER S-2156

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION SOUTHEAST REGION.
DATE 6-25-2010
C E Anderson

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-11-20 4.05

Vol 1 Pg 113

DOCUMENT # 2255372
RACINE COUNTY REGISTER OF DEEDS
July 13, 2010 4:26 PM
James A. Ladwig
JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 1

FILE NAME : F:\BM1-1644D CTH K\Survey\ck_040405_rp.dgn PLOT DATE : 23-JUN-2010 14:22 PLOT BY : kdew PLOT NAME : PLOT SCALE : 100.0002:1
THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE RACINE COUNTY REGISTER OF DEEDS.
CONST. 1030-11-70 CTH K R/W 1030-11-20 4.05

TRANSPORTATION PROJECT PLAT NO: 1030-11-20 - 4.06

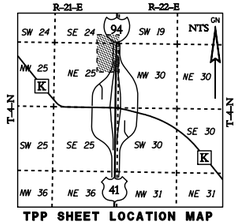
THAT PART OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 25, AND THAT PART OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 24, TOWNSHIP 4 NORTH, RANGE 21 EAST, IN THE TOWN OF RAYMOND, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER I-94 @ CTH "K" RACINE COUNTY

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TPP SHEET LOCATION MAP



BASIS OF RIGHT-OF-WAY

HWY	BASIS OF EXIST R/W	YEAR	WIDTH
I-94/USH 41	DJ 2381	1935	VARIES
I-94/USH 41	DJ 2277	1934	VARIES
I-94/USH 41	I 101-1 (3)	1956	VARIES
CTH "K"	I 101-1 (3)	1956	VARIES
CTH "K"	BY STATUTE 82.81	----	66'
CTH "K"	2804-2-71	1972	VARIES

GENERAL NOTES:

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FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNINGUNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

I-94 ACCESS WAS PREVIOUSLY CONTROLLED PER PROJECT I 101-1 (3).

PLAT NOTE:

THE CONSULTANT WAS PROVIDED WITH THE EXISTING C/L IH-94 VIA DOT SE DISTRICT 05/2010

SCALE, FEET
0 100 200

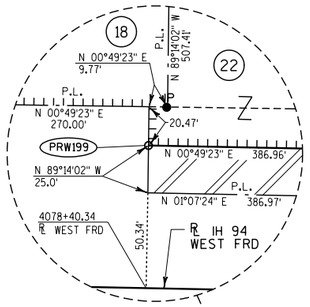
Y=207,529.73
X=591,560.10
CAST IRON MON.
WITH BRASS CAP

SCHEDULE OF LANDS AND INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	TLE TEMP. ACRES	PLE PERM. ACRES
18	OMEGA INVESTMENTS INC.	FEE,AR,TLE	0.260	0.000	0.260	0.124	0.000
21	ELIMINATED	---	---	---	---	---	---
22	MARK W. NELSON	FEE,AR,TLE	0.231	0.000	0.231	0.068	0.000
43	ROGER A. & PAMELA J. HAYS	FEE,AR,TLE	0.044	0.000	0.044	0.045	0.000
--	---	---	---	---	---	---	---

PARCEL 18 & 22 DETAIL
NTS



℄ IH-94
CURVE 14
PI = 1064+92.20
Y = 205,759.81
X = 594,075.07
△ = 00°29'51"
D = 00°03'00"
R = 114,597.56'
T = 497.62'
L = 995.23'
EXT = 1.08'
LCH = 995.23'
LCB = N00°50'36"E
PC = 1059+94.58
PT = 1069+89.81

℄ RELOCATED
IH-94 WEST FRD
CURVE 83
PI = 4070+75.49
Y = 206,285.58
X = 593,949.83
△ = 49°01'33"
D = 05°22'48"
R = 1065.00'
T = 485.64'
L = 911.28'
EXT = 105.50'
LCH = 883.73'
LCB = N25°36'18"E
PC = 4065+89.85
PT = 4075+01.13

SEE TPP PLAT 1030-11-20, SHEET 4.05

SEE TPP PLAT 1030-11-20
AMENDMENT NO. 1, SHEET 4.09

END PROJECT 1030-11-20
STA. 1093+00 ℄ IH-94
Y = 208,567.11
X = 594,128.59

POE 4087+25.05
Y=207994.83
X=593982.41

Y=210,144.23
X=594,246.71
CAST IRON MON.
WITH BRASS CAP

Y=204,838.38
X=594,167.13
CONC MON. WITH
ALUMINUM CAP

Y=207,494.35
X=594,205.28
CAST IRON MON.
WITH BRASS CAP

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOC. 2219602 IN THE RACINE COUNTY REGISTER OF DEEDS

I, TIMOTHY JOHNSON, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION-SOUTHEAST REGION, HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1030-11-20 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

STATE OF WISCONSIN — TIMOTHY JOHNSON — NO. S-2156 — EAST TROY WI — REGISTERED LAND SURVEYOR

BLOOM COMPANIES, LLC
Infrastructure Innovation and Ingenuity

DATE 7/5/10
TIMOTHY JOHNSON, RLS NUMBER S-2156

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION SOUTHEAST REGION.
DATE 7-7-2010
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RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-11-20 4.06

Vol 1 Pg 114

DOCUMENT # 2255373
RACINE COUNTY REGISTER OF DEEDS
July 13, 2010 4:27 PM
JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 1

FILE NAME : F:\BM1-1644D CTH K\Survey\ck_040406_rp.dgn PLOT DATE : 05-JUL-2010 19:44 PLOT BY : kdew PLOT NAME : PLOT SCALE : 100:1

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE RACINE COUNTY REGISTER OF DEEDS.

CONST. 1030-11-70 CTH K R/W 1030-11-20 4.06

TRANSPORTATION PROJECT PLAT NO: 1030-11-20 - 4.07

THAT PART OF THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 30, TOWNSHIP 4 NORTH, RANGE 22 EAST, VILLAGE OF CALEDONIA, RACINE COUNTY, WISCONSIN.

AMENDMENT NO.1:

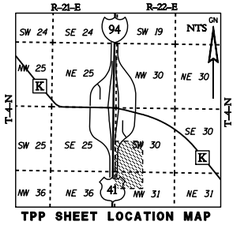
AMENDS PARCEL NO.24 AND 25 AND EXISTING C/L IH-94 OF TRANSPORTATION PROJECT PLAT NO. 1030-11-20 - 4.07 RECORDED AS DOCUMENT NO. 2245539

RELOCATION ORDER I-94 @ CTH "K" RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.



TPP SHEET LOCATION MAP

BASIS OF RIGHT-OF-WAY

HWY	BASIS OF EXIST R/W	YEAR	WIDTH
I-94/USH 41	DJ 2381	1935	VARIES
I-94/USH 41	DJ 2277	1934	VARIES
I-94/USH 41	I 101-1 (3)	1956	VARIES

GENERAL NOTES:

COORDINATES AND BEARINGS ON THE PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY, (ENGLISH), NAD 1983 (1997) ADJUSTMENT, ALL DISTANCES ARE GROUND LENGTH.

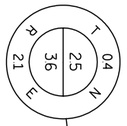
RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY WISCONSIN DOT SOUTHEAST REGION SURVEY.

FOR THE LATEST ACCESS / DIRECTIONAL INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

I-94 ACCESS WAS PREVIOUSLY CONTROLLED PER PROJECT I 101-1 (3).

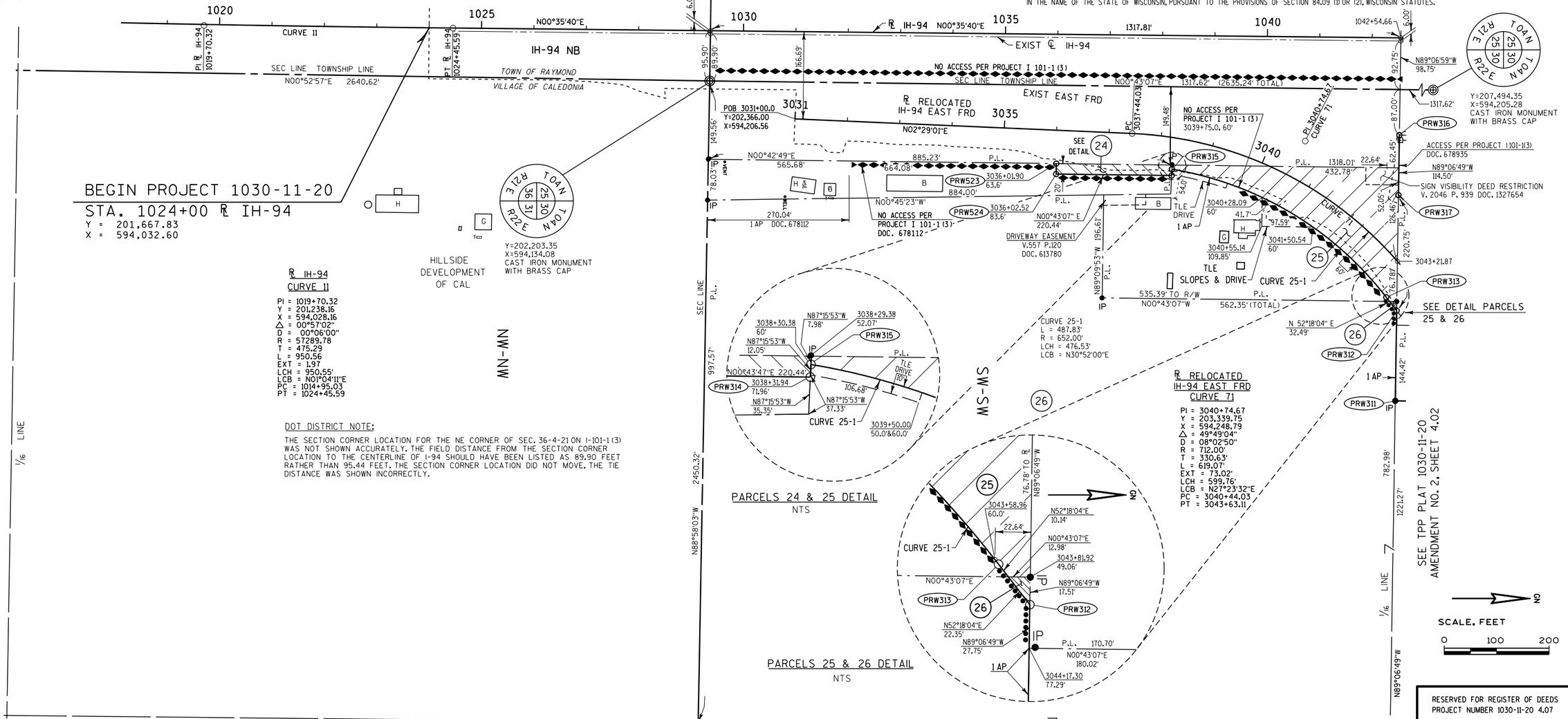
PLAT NOTE:

THE CONSULTANT WAS PROVIDED WITH THE EXISTING C/L IH-94 VIA DOT SE DISTRICT 05/2010



Y=202,239.33
X=591,473.71
CAST IRON MONUMENT WITH BRASS CAP

SEE TPP PLAT 1030-11-20, SHEET 4.03



BEGIN PROJECT 1030-11-20
STA. 1024+00 ℄ IH-94
Y = 201,667.83
X = 594,032.60

℄ IH-94
CURVE 11

PI = 1019+70.32
Y = 201,238.16
X = 594,028.16
Δ = 00°57'02"
D = 00°06'00"
R = 57289.78
T = 475.29
L = 950.56
EXT = 1.97
LCH = 950.55'
LCB = N01°04'11"E
PC = 1014+95.03
PT = 1024+45.59

DOT DISTRICT NOTE:

THE SECTION CORNER LOCATION FOR THE NE CORNER OF SEC. 36-4-21 ON I-101-1 (3) WAS NOT SHOWN ACCURATELY. THE FIELD DISTANCE FROM THE SECTION CORNER LOCATION TO THE CENTERLINE OF I-94 SHOULD HAVE BEEN LISTED AS 89.90 FEET RATHER THAN 95.44 FEET. THE SECTION CORNER LOCATION DID NOT MOVE, THE TIE DISTANCE WAS SHOWN INCORRECTLY.

SCHEDULE OF LANDS AND INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	TLE TEMP. ACRES	PLE PERM. ACRES
24	KENNETH L. NICHOLSON	FEE	0.101	0.000	0.101	0.000	0.000
25	TODD M. FORNES	FEE,AR,TLE	0.997	0.000	0.997	0.091	0.000
26	BADGER LAND COMPANY	FEE,AR	0.003	0.000	0.000	0.000	0.000
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FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOC. 2219602 IN THE RACINE COUNTY REGISTER OF DEEDS

I, TIMOTHY JOHNSON, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION-SOUTHEAST REGION, HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1030-11-20 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

STATE OF WISCONSIN
TIMOTHY JOHNSON
NO. S-2156
EAST TROY WI
REGISTERED LAND SURVEYOR

BLOOM COMPANIES, LLC
Infrastructure Innovation and Ingenuity

DATE 7/5/10
TIMOTHY JOHNSON, RLS NUMBER S-2156

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION SOUTHEAST REGION.

DATE 7-7-2010
C E Andersen

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-11-20 4.07

Vol 1 Pg 115
DOCUMENT # 2255374
RACINE COUNTY REGISTER OF DEEDS
July 13, 2010 4:29 PM
James A. Ladwig
JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 1

FILE NAME : F:\BM1-1644D CTH K\Survey\ck_040407_rp.dgn PLOT DATE : 05-JUL-2010 19:45 PLOT BY : kdew PLOT NAME : PLOT SCALE : 100:1

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE RACINE COUNTY REGISTER OF DEEDS.

CONST. 1030-11-70 CTH K R/W 1030-11-20 4.07

TRANSPORTATION PROJECT PLAT NO: 1030-11-20 - 4.09

THAT PART OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 AND THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 30, TOWNSHIP 4 NORTH, RANGE 22 EAST, VILLAGE OF CALEDONIA, RACINE COUNTY, WISCONSIN.

AMENDMENT NO.1:

AMENDS ACCESS RIGHTS OF PARCEL 37 AND AMENDS EXISTING C/L IH-94 OF TRANSPORTATION PROJECT PLAT NO. 1030-11-20 - 4.09

AMENDMENT NO. 1 RECORDED AS DOCUMENT NO. 2221139

RELOCATION ORDER I-94 @ CTH "K" RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

BASIS OF RIGHT-OF-WAY

HWY	BASIS OF EXIST R/W	YEAR	WIDTH
I-94/USH 41	DJ 2381	1935	VARIES
I-94/USH 41	DJ 2277	1934	VARIES
I-94/USH 41	I 101-1 (3)	1956	VARIES
CTH "K"	I 101-1 (3)	1956	VARIES
CTH "K"	BY STATUTE 82.81	----	66'
CTH "K"	2804-2-71	1972	VARIES

GENERAL NOTES:

COORDINATES AND BEARINGS ON THE PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY, (ENGLISH), NAD 1983 (1997) ADJUSTMENT. ALL DISTANCES ARE GROUND LENGTH.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYP 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY WISCONSIN DOT SOUTHEAST REGION SURVEY.

I-94 ACCESS WAS PREVIOUSLY CONTROLLED PER PROJECT I 101-1 (3).

PLAT NOTE:

THE CONSULTANT WAS PROVIDED WITH THE EXISTING C/L IH-94 VIA DOT SE DISTRICT 05/2010

Y=204,838.38
X=594,167.13
CONC. MON. WITH ALUMINUM CAP

Y = 204,884.29
X = 591,516.97
CAST IRON MON. WITH BRASS CAP

SEE TPP PLAT 1030-11-20, SHEET 4.05

SEE TPP PLAT 1030-11-20, SHEET 4.06

SEE TPP PLAT 1030-11-20 AMENDMENT NO. 2, SHEET 4.02

N 89°00'27" W 2548.94'

1055+72.48

R IH-94

N00°35'40"E

EXIST ℄ IH-94

PC R IH-94 1059+94.58

CURVE 14

PI R IH-94 1064+92.20 CURVE 14

PT R IH-94 1069+89.81

1069+00.41

IH-94 SB

IH-94 NB

N 01°05'31" E 1238.54'

1082+28.35

N 89°14'02" W 2548.30'

N 89°14'02" W 97.12'

Y=207,529.73
X=591,560.10
CAST IRON MON. WITH BRASS CAP

N 89°00'27" W 101.61'

TOWN OF RAYMOND

VILLAGE OF CALEDONIA

NO ACCESS PER PROJECT I 101-1 (3)

N00°49'23"E 2656.24'(TOTAL) SEC LINE TOWNSHIP LINE

1328.12'

R NE ON RAMP

EXIST EAST FRD

R RELOCATED IH-94 EAST FRD

PI 5075+45.44 CURVE 74

POE 5082+28.39 Y=207,493.77 X=594,251.27

Y=207,494.35
X=594,205.28
CAST IRON MONUMENT WITH BRASS CAP

MS-MN

CTH K

N89°15'38"W 2434.79'(TOTAL)

N00°49'23"E 202.38'

N11°08'59" W 301.83'

N00°49'23"E 198.61'

N11°08'59" W 185.05'

45+77.5 122.28'

10' UTILITY EASEMENT

1059+97.44 269.92' & 279.92'

1062+00.28 270.54' & 280.54'

N 13°01'55" W 95.66'

N 13°01'55" W 108.52'

N 03°55'59" W 225.75'

N 00°49'23" E 138.56'

1069+01.40 218.8'&228.8'

1069+51.51 218.8'&228.8'

N 00°49'23" E 447.67'

5073+41.05 70'

PRW279 PRW280 PRW281 PRW282 PRW283 PRW284 PRW285 PRW286 PRW287 PRW288 PRW294 PRW295 PRW296 PRW297 PRW298 PRW299

CURVE 14
PI = 1064+92.20
Y = 205,759.81
X = 594,075.07
Δ = 00°29'51"
D = 00°03'00"
R = 114,597.56'
T = 497.62'
L = 995.23'
EXT = 1.08'
LCH = 995.23'
LCB = N00°50'36"E
PC = 1059+94.58
PT = 1069+89.81

5070+90.0 60'&70'

5069+60.0 60'&110'

5069+00.0 60'&110'

5072+39.00

CURVE 74
L = 1275.67'
R = 990.00'
LCH = 1243.75'
LCB N36°46'59"W

CURVE 42-1
L = 125.67'
R = 990.00'
LCH = 125.58'
LCB N33°01'59"W

CURVE 42-2
L = 545.10'
R = 830.50'
LCH = 535.37'
LCB N17°58'48"W

5073+50.0 69.9'&79.9'

5076+00.08 79.7'

PT 5078+29.72

N 36°46'59" W 432.75'

N 36°46'59" W 114.71'

N 36°46'59" W 265.38'

N 36°46'59" W 355.61'

5070

5075

5065

5055

5060

1 AP

2 AP 326'

3 AP'S

5057+75.0 150'&160'

5053+67.17 150'

5055+32.84

5059+24.96 160'

5058+25.0 70'&90'

5061+25.0 70'&90'

5062+00.0 70'

5063+20.0 90'

5065+25.0 70'&90'

5067+44.91

5067+48.94 70'&60'

5067+08.11 70'&60'

5069+74.27 70'

5067+60.18

CURVE 36-1
L = 58.28'
R = 1260.00'
LCH = 58.28'
LCB = N00°30'08"W

48+25.0 108'&118'

CURVE 37-6
L = 373.82'
R = 1290.00'
LCH = 372.51'
LCB N28°28'54"W

CURVE 37-3
L = 893.94'
R = 1420.00'
LCH = 879.25'
LCB = N17°12'43"W

CURVE 37-4
L = 38.08'
R = 1420.00'
LCH = 38.08'
LCB N36°00'54"W

CURVE 37-5 (OVERALL)
L = 932.02'
R = 1420.00'
LCH = 915.38'
LCB N17°58'48"W

CURVE 37-5
R = 1350.00'
LCH = 870.26'
LCB = N17°58'48"W

R RELOCATED IH-94 EAST FRD CURVE 73
PI = 5063+18.50
Y = 205,779.30
X = 594,995.72
Δ = 37°36'22"
D = 04°14'39"
R = 1350.00'
T = 459.66'
L = 886.07'
EXT = 76.11'
LCH = 870.26'
LCB = N17°58'48"W
PC = 5058+58.84
PT = 5067+44.91

R RELOCATED IH-94 EAST FRD CURVE 74
PI = 5075+45.44
Y = 206,788.59
X = 594,241.14
Δ = 37°36'22"
D = 06°21'58"
R = 900.00'
T = 306.44'
L = 590.72'
EXT = 50.74'
LCH = 580.17'
LCB = N17°58'48"W
PC = 5072+39.00
PT = 5078+29.72

STORM WATER POND 45

TLE SLOPES & DRIVES

10' UTILITY EASEMENT

20' TLE SLOPES

10' TLE SLOPES

SCALE

SEC LINE

1/4 SEC LINE

1/16 LINE

N89°16'45"W 2414.15'(TOTAL)

4 MILE RD

1160.84'

1207.07'

480.06'

212.44'

1317.40'

316.42'

575.02'

2424.47 (TOTAL)

Y=204,806.96
X=596,601.71
CAST IRON MONUMENT WITH BRASS CAP

Y=207463.98
X=596619.24
CAST IRON MONUMENT WITH BRASS CAP

PARCELS 37 & 42 DETAIL
NTS

TPP SHEET LOCATION MAP

SCALE, FEET
0 100 200

SCHEDULE OF LANDS AND INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	TLE TEMP. ACRES	PLE PERM. ACRES
36	PILOT TRAVEL CENTERS LLC	FEE,AR,TLE	0.51	0.00	0.51	0.89	0.00
37	HAROLD R. & CAROL J. DEBACK	FEE,AR,TLE	6.24	0.00	6.24	0.30	0.00
42	BFD ENTERPRISES A PARTNERSHIP	FEE,AR,TLE	2.01	0.00	2.01	0.19	0.00
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FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOC. 2219602 IN THE RACINE COUNTY REGISTER OF DEEDS.

I, TIMOTHY JOHNSON, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION-SOUTHEAST REGION, HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1030-11-20 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

STATE OF WISCONSIN — TIMOTHY JOHNSON — NO. S-2156 — EAST TROY WIS. — REGISTERED LAND SURVEYOR

BLOOM COMPANIES, LLC
Infrastructure Innovation and Ingenuity

DATE 7/5/10

TIMOTHY JOHNSON, RLS NUMBER S-2156

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION SOUTHEAST REGION.

DATE 7-7-2010

D E Andersen

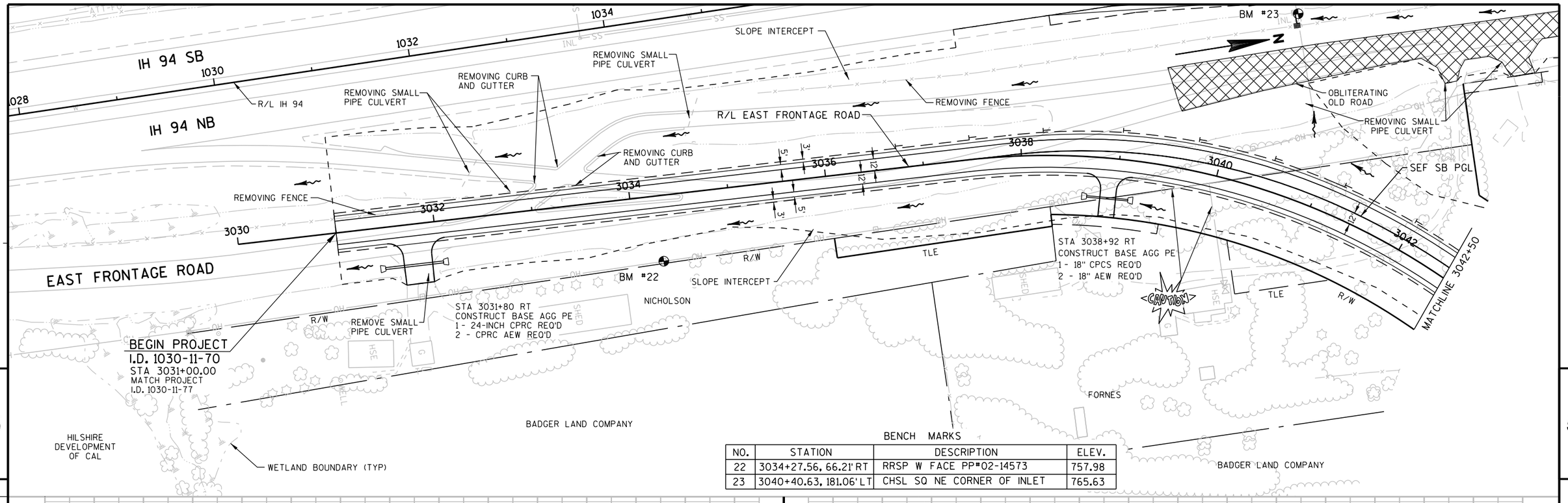
RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-11-20 4.09

Vol 1 Pg 116
DOCUMENT # 2255375
RACINE COUNTY REGISTER OF DEEDS
July 13, 2010 4:34 PM
James A. Ladwig
JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: 425.00
Pages: 1

FILE NAME : F:\BM1-1644D CTH K\Survey\ck_040409_rp.dgn PLOT DATE : 05-JUL-2010 19:45 PLOT BY : kdew PLOT NAME : PLOT SCALE : 100:1

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE RACINE COUNTY REGISTER OF DEEDS.

CONST. 1030-11-70 CTH K R/W 1030-11-20 4.09



PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN AND PROFILE	SCALE, FEET 0 50 100	SHEET 151 E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\050101_pp.dgn PLOT DATE : 22-JUN-2012 12:41 PLOT BY : rmakoutz PLOT SCALE : 100:1

WISDOT/CADDS SHEET 44

BENCH MARKS

	NO. STATION	DESCRIPTION	ELEV.
25	3043+63.96, 140.91' LT	RRSP NE FACE LPOL BEHIND LEGION POST 494	781.88
26	3049+94.83, 185.90' LT	TOP OF POST 1' ABOVE GROUND	770.32

STA 3044+58
CONSTRUCT CE LT

BM #25

MICHEL COURT

R/L MICHEL COURT

MATCHLINE 3042+50

BEGIN CONSTRUCTION
STA 3045+71.98 SB PGL =
STA 3045+71.98, 12' LT R/L EAST FRONTAGE RD.

BM #26

HRIBAR

R/L DRAINAGE SWALE

SLOPE INTERCEPT

WETLAND BOUNDARY (TYP)

EAST FRONTAGE ROAD

SEF SB PGL

NB PGL

STA 3044+78.26 E. FRONTAGE RD.=
STA 10+00.00 MICHEL CT.

R/L EAST FRONTAGE ROAD

BADGER LAND COMPANY

STA 3050+30
1 - 30-INCH CPRC REQ'D
2 - CPRC AEW REQ'D

END CONSTRUCTION
STA 5051+60.93 SB PGL=
STA 5051+60.93, 44' LT
R/L EAST FRONTAGE RD.

RASMUSSEN

REMOVING FENCE

R/L CTH K

CTH K

FORNES

DEBACK

END CONSTRUCTION
STA 3052+34.53 R/L EAST FRONTAGE RD

BUCHMANN

5

5

BEGIN CONSTRUCTION
STA 3045+71.98 SB PGL =
STA 3045+71.98, 12' LT R/L EAST FRONTAGE RD.

FINISHED PROFILE GRADE LINE AT E. FRONTAGE RD.

-1.00%

NB VPT STA 3045+00.00
NB VPT EL 776.08

VCL 1000'
K = 215

STA 3049+00
12" SSPRC CL IV

STA 3050+11
1- 30" CPRC
2=30" RCAEW

EXISTING GROUND AT R/L E. FRONTAGE RD.

NB VPC STA 3050+40.00
NB VPC EL 770.66

SB VPC STA 3050+75.00
SB VPC EL 770.39

END CONSTRUCTION
STA 3052+34.53 R/L E. FRONTAGE RD.

EXCAVATION BELOW SUBGRADE

VCL 400'
K = 187

VCL 350'
K = 150

NB VPI STA 3052+40.00
VPI EL 768.65

SB VPI STA 3052+50.00
SB VPI EL 768.59

STA 3052+27
15" SSPRC CL IV

SEF SB PGL FINISHED PROFILE GRADE LINE

SB VPRC STA 3054+25.00
SB VPRC EL 770.88

SB VPI STA 3054+61.06
SB VPI EL 771.36

1.15%

VCL 60'
K = 33

VCL 50'
K = 42

SB VPC STA 3055+00.00
SB VPC EL 771.80

SB VPI STA 3055+30.00
SB VPI EL 772.15

SB VPRC STA 3055+60.00
SB VPRC EL 771.95

SB VPT STA 3055+85.00
SB VPT EL 771.78

SB VPT STA 3056+10.00
SB VPT EL 771.91

0.51%

SB VPI STA 3056+20.00
SB VPI EL 771.96

END CONSTRUCTION
STA 5051+60.93 SEF SB PGL

EXISTING PROFILE ELEVATIONS

FINISHED NB PROFILE ELEVATIONS

FINISHED SEF SB PROFILE ELEVATIONS

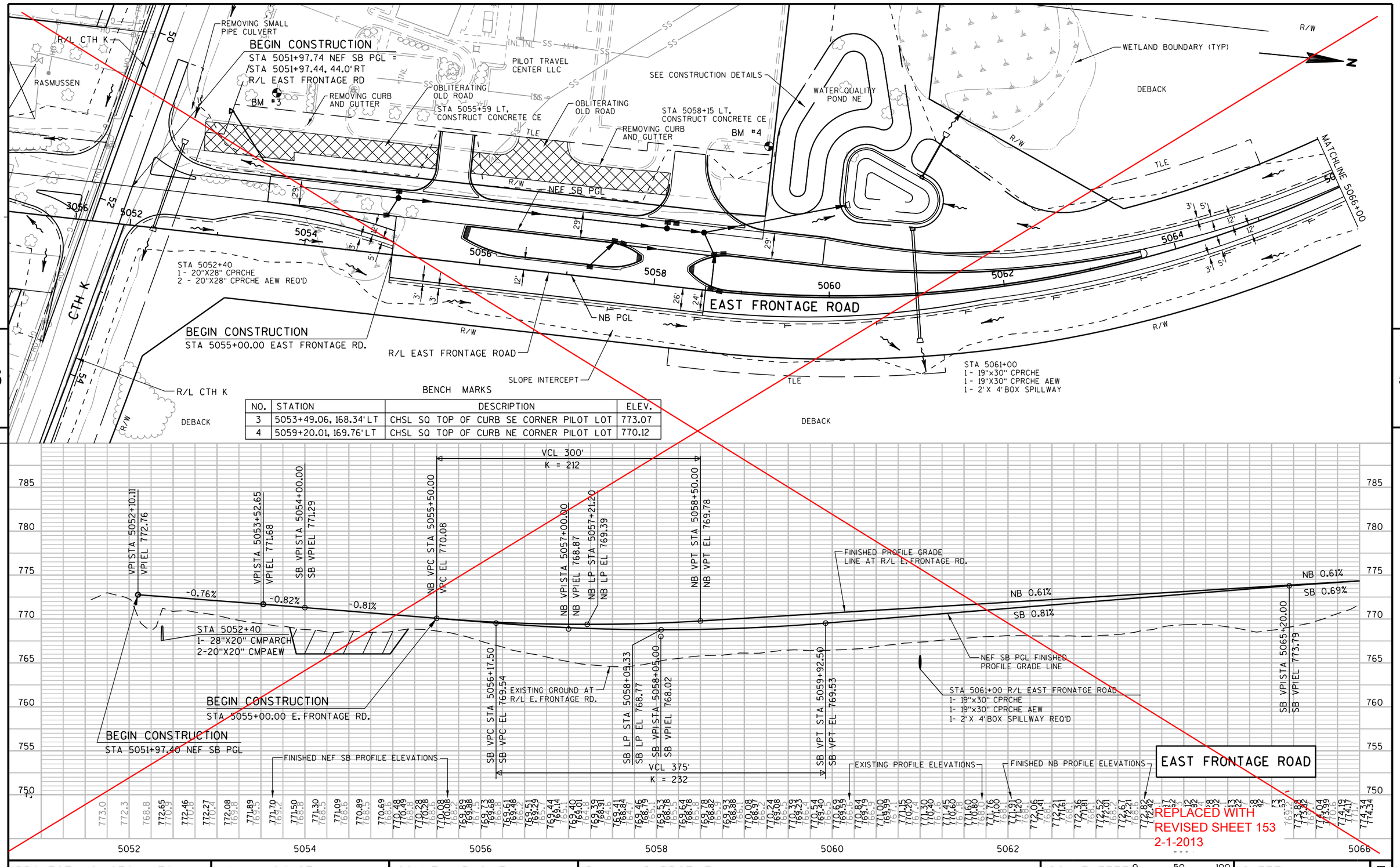
EAST FRONTAGE ROAD

3044	3046	3048	3050	3052	3054	3056
776.8 777.13	777.4 777.16	778.1 777.16	777.9 777.3	778.2 777.12	779.1 777.06	778.6 776.97
778.1 776.85	777.9 776.70	778.2 776.52	778.6 776.32	779.0 776.08	779.4 775.83	779.8 775.58
779.8 775.33	779.1 775.07	778.0 774.82	777.2 774.57	773.4 774.32	771.6 774.07	769.8 773.82
768.0 773.57	766.5 773.32	765.3 773.07	764.5 772.81	764.4 772.56	764.3 772.31	763.7 772.06
763.1 771.81	762.6 771.56	762.2 771.31	761.8 771.06	761.2 770.81	761.0 770.56	761.4 770.34
770.39 770.15	770.00 769.96	769.88 769.81	769.79 769.69	769.63 769.74	769.72 769.66	769.73 769.61
769.67 769.77	766.2 766.7	769.91 768.8	770.09 769.9	770.31 770.58	770.6 771.1	770.88 772.2
771.20 773.1	771.51 773.9	771.80 774.5	772.00 774.5	772.00 774.5	771.87 773.4	771.87

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN AND PROFILE	SCALE, FEET 0 50 100	SHEET 152	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\050102_pp.dgn PLOT DATE : 22-JUN-2012 12:41 PLOT BY : rmakoutz PLOT SCALE : 100:1

WISDOT/CADDS SHEET 44



NO.	STATION	DESCRIPTION	ELEV.
3	5053+49.06, 168.34' LT	CHSL SQ TOP OF CURB SE CORNER PILOT LOT	773.07
4	5059+20.01, 169.76' LT	CHSL SQ TOP OF CURB NE CORNER PILOT LOT	770.12

REPLACED WITH REVISED SHEET 153 2-1-2013

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN AND PROFILE	SCALE, FEET 0 50 100	SHEET 153	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\050103_pp.dgn
PLOT DATE : 27-AUG-2012 14:03
PLOT BY : rmakoutz
PLOT SCALE : 100:1

Plan Revision
1030-11-70
Revised Page 153
February 1, 2013

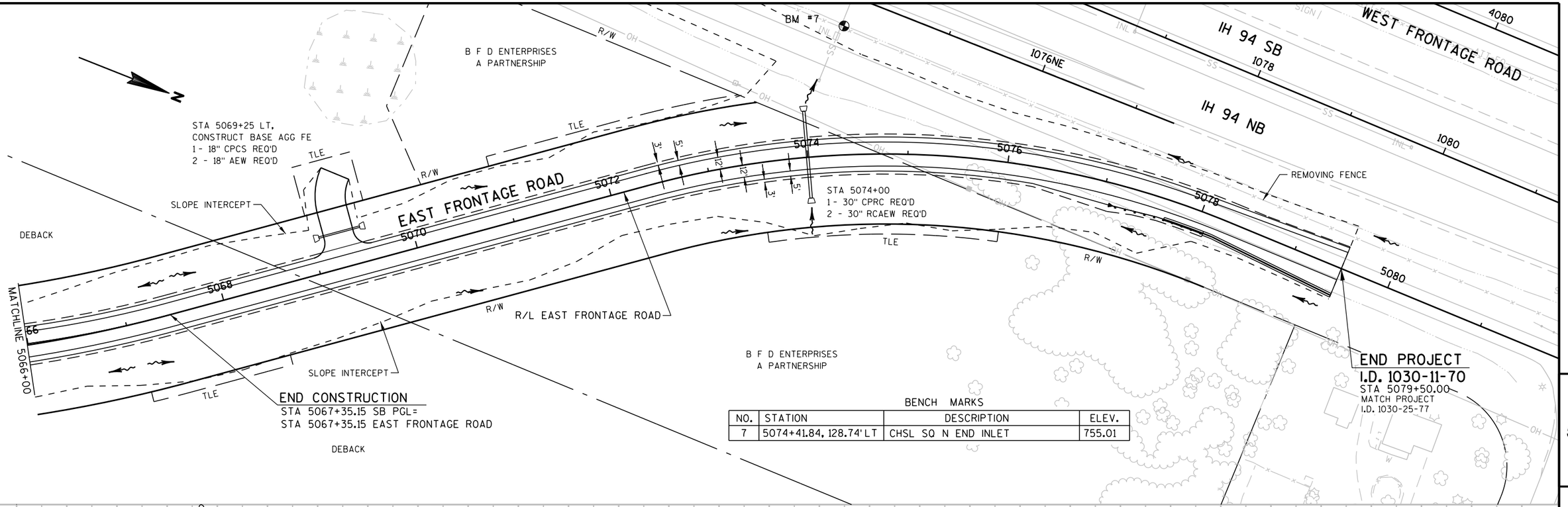
REMOVING SMALL PIPE CULVERT
BEGIN CONSTRUCTION
STA 5051+97.74 NEF SB PGL =
STA 5051+97.44, 44.0' RT
R/L EAST FRONTAGE RD
BM #3
REMOVING CURB AND GUTTER
OBLITERATING OLD ROAD
STA 5055+59 LT, CONSTRUCT CONCRETE CE
PILOT TRAVEL CENTER LLC
SEE CONSTRUCTION DETAILS
WATER QUALITY POND NE
OBLITERATING OLD ROAD
STA 5058+15 LT, CONSTRUCT CONCRETE CE
REMOVING CURB AND GUTTER
BM #4
WETLAND BOUNDARY (TYP)
DEBACK
R/W
TLE
NEF SB PGL
NB PGL
MATCHLINE 5066+00
R/L CTH K
RASMUSSEN
CTH K
STA 5052+40
1 - 20"X28" CPRCHE
2 - 20"X28" CPRCHE AEW REQ'D
BEGIN CONSTRUCTION
STA 5055+60.00 EAST FRONTAGE RD.
R/L EAST FRONTAGE ROAD
SLOPE INTERCEPT
EAST FRONTAGE ROAD
STA 5061+00
1 - 19"x30" CPRCHE
1 - 19"X30" CPRCHE AEW
1 - 2'X 4'BOX SPILLWAY
BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
3	5053+49.06, 168.34' LT	CHSL SQ TOP OF CURB SE CORNER PILOT LOT	773.07
4	5059+20.01, 169.76' LT	CHSL SQ TOP OF CURB NE CORNER PILOT LOT	770.12

VCL 300'
K = 212
VCL 375'
K = 232
VPI STA 5052+10.11
VPI EL 772.76
VPI STA 5053+52.65
VPI EL 771.68
SB VPI STA 5054+00.00
SB VPI EL 771.29
NB VPC STA 5055+50.00
VPC EL 770.08
NB VPI STA 5057+00.00
NB VPI EL 768.87
NB LP STA 5057+21.20
NB LP EL 769.39
NB VPT STA 5058+50.00
NB VPT EL 769.78
SB VPC STA 5056+17.50
SB VPC EL 769.54
SB LP STA 5058+09.33
SB LP EL 768.77
SB VPI STA 5058+05.00
SB VPI EL 768.02
SB VPT STA 5059+92.50
SB VPT EL 769.53
SB VPI STA 5065+20.00
SB VPI EL 773.79
-0.76%
-0.82%
-0.81%
NB 0.61%
SB 0.81%
SB 0.69%
FINISHED PROFILE GRADE LINE AT R/L E. FRONTAGE RD.
NEF SB PGL FINISHED PROFILE GRADE LINE
STA 5061+00 R/L EAST FRONATGE ROAD
1- 19"x30" CPRCHE
1- 19"x30" CPRCHE AEW
1- 2'X 4'BOX SPILLWAY REQ'D
STA 5052+40
1- 28"X20" CMPARCH
2-20"X20" CMPAEW
EXCAVATION BELOW SUBGRADE
BEGIN CONSTRUCTION
STA 5055+60.00 E. FRONTAGE RD.
BEGIN CONSTRUCTION
STA 5051+97.40 NEF SB PGL
EXISTING GROUND AT R/L E. FRONTAGE RD.
FINISHED NEF SB PROFILE ELEVATIONS
EXISTING PROFILE ELEVATIONS
FINISHED NB PROFILE ELEVATIONS
EAST FRONTAGE ROAD
785
780
775
770
765
760
755
750
5052
5054
5056
5058
5060
5062
5064
5066

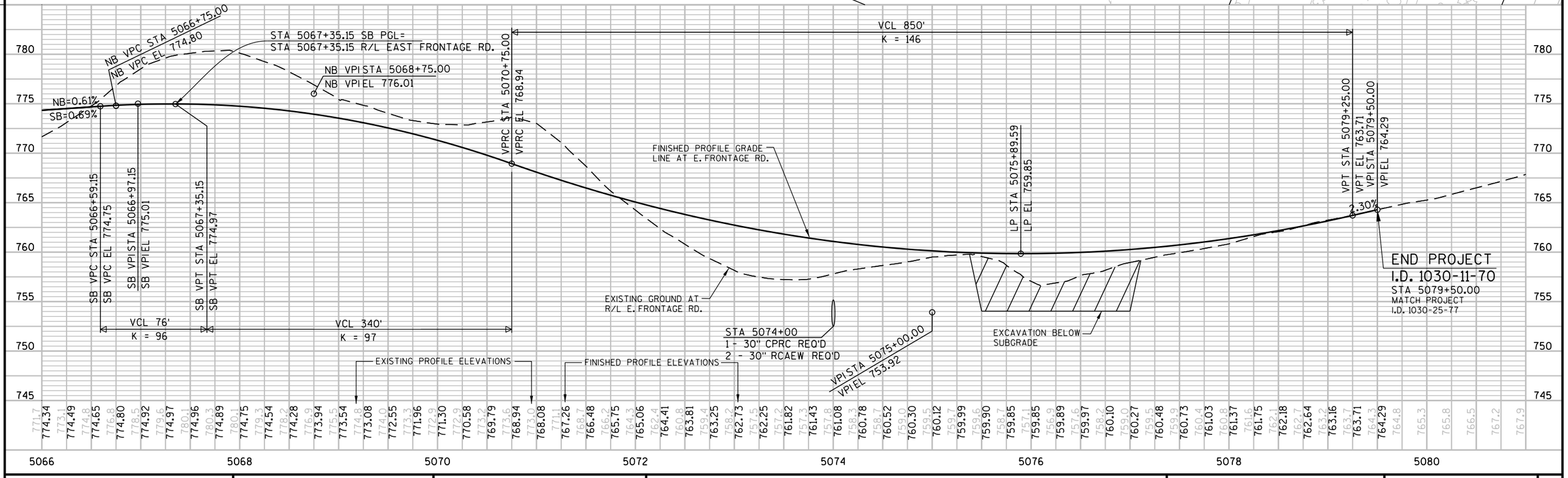
PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN AND PROFILE	SCALE, FEET 0 50 100	REVISED SHEET 153	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\050103_pp.dgn
PLOT DATE : 01-FEB-2013 10:24
PLOT BY : ceven
PLOT SCALE : 100:1
WISDOT/CADDS SHEET 44

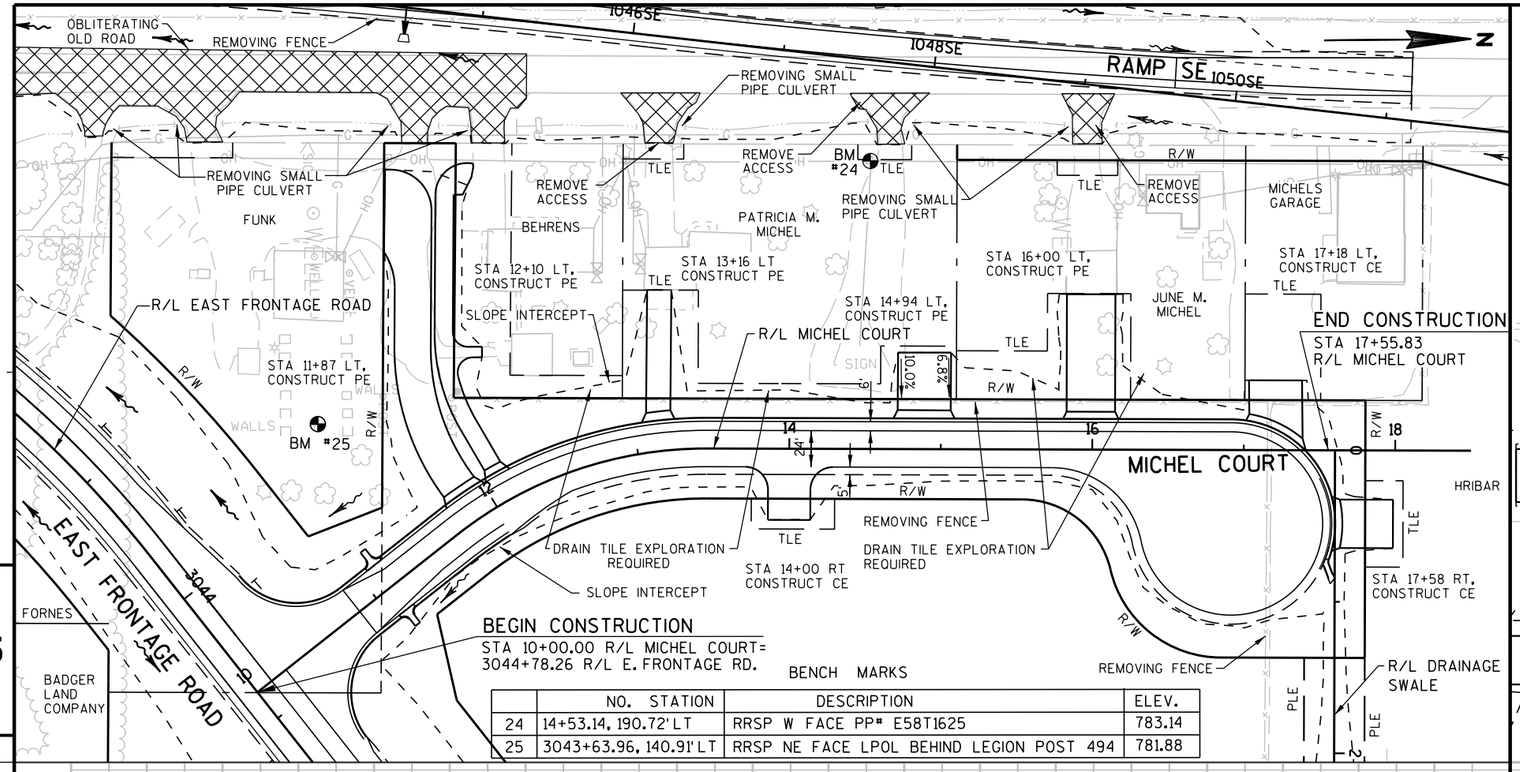


BENCH MARKS

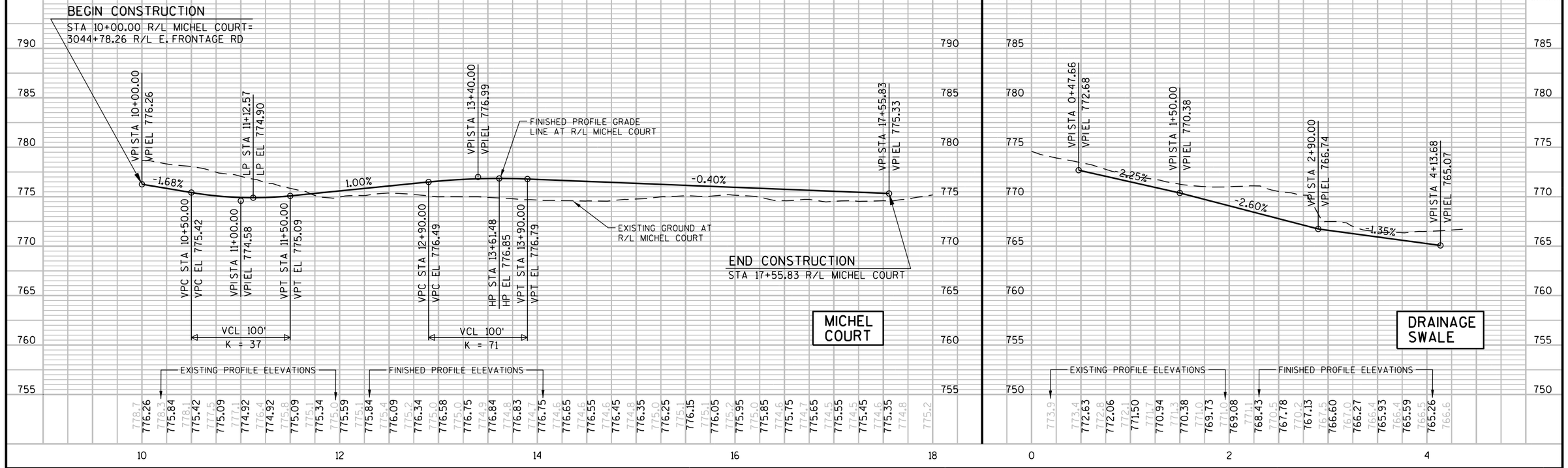
NO.	STATION	DESCRIPTION	ELEV.
7	5074+41.84, 128.74' LT	CHSL SQ N END INLET	755.01



PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN AND PLOT	SCALE, FEET 0 50 100	SHEET 154 E



	NO. STATION	DESCRIPTION	ELEV.
24	14+53.14, 190.72' LT	RRSP W FACE PP* E58T1625	783.14
25	3043+63.96, 140.91' LT	RRSP NE FACE LPOL BEHIND LEGION POST 494	781.88



PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN AND PROFILE	SCALE, FEET 0 50 100	SHEET 155 E

NO.	STATION	DESCRIPTION	ELEV.
23	3040+40.63, 181.06' LT	CHSL SQ NE CORNER OF INLET	765.63
24	14+53.14, 190.72' LT	RRSP W FACE PP# E58T1625	783.14
25	3043+63.96, 140.91' LT	RRSP NE FACE LPOL BEHIND LEGION POST 494	

CURVE SER 1
PI = STA 1044+83.67
Y = 203748.51
X = 594154.71
DELTA = 1° 49' 50"
D = 00° 42' 58"
T = 127.81'
L = 255.59'
R = 8000'
PC = STA 1043+55.86
Y = 203621.22
X = 594143.23
PT = STA 1046+11.46
Y = 203875.37
X = 594170.25

CURVE SER 2
PI = STA 1049+63.18
Y = 204224.49
X = 594213.00
DELTA = 6° 04' 29"
D = 00° 51' 52"
T = 351.72'
L = 702.78
R = 6628.57'
PC = STA 1046+11.46
Y = 203875.37
X = 594170.25
PT = STA 1053+14.24
Y = 204576.16
X = 594218.57

BEGIN CONSTRUCTION
STA 1038+48.22 R/L RAMP SE

END CONSTRUCTION
STA 1051+16.23
R/L RAMP SE

IH 94 SB

IH 94 NB

RAMP SE

R/L RAMP SE

EAST FRONTAGE ROAD

MICHEL COURT

R/L MICHEL COURT

BM #23

BM #24

BM #25

OBLITERATING OLD ROADWAY

REMOVING FENCE

REMOVING SMALL PIPE CULVERTS

REMOVING SMALL PIPE CULVERT

SLOPE INTERCEPT

REMOVE ACCESS

BEHRENS

PATRICIA M. MICHEL

MICHELS GARAGE

PCSER

PCCSER 1/2

CURVE SER 1

CURVE SER 2

1040SE 1042SE 1044SE 1046SE 1048SE 1050SE 1052SE

N0°36'

3038 3040 3042

1038 1040 1042 1044 1046 1048 1050 1052

14 16 18

VPI STA 1038+48.22
VPI EL 765.06

VPI STA 1039+50.00
VPI EL 766.85

VPI STA 1041+12.82
VPI EL 770.57

VPI STA 1046+00.00
VPI EL 780.70

VPC STA 1043+00.00
VPC EL 774.46

VPT STA 1049+00.00
VPT EL 781.84

VPC STA 1050+00.00
VPC EL 782.22

HP STA 1050+44.03
HP EL 782.30

VPI STA 1051+00.00
VPI EL 782.60

STA 1049+00.00 R/L RAMP SE
END CONSTRUCTION
BEGIN RESURFACE

1.76% 2.28% 2.08% 0.38%

VCL 600'
K = 353

VCL 200'
K = 116

EXISTING PROFILE ELEVATIONS

FINISHED PROFILE ELEVATIONS

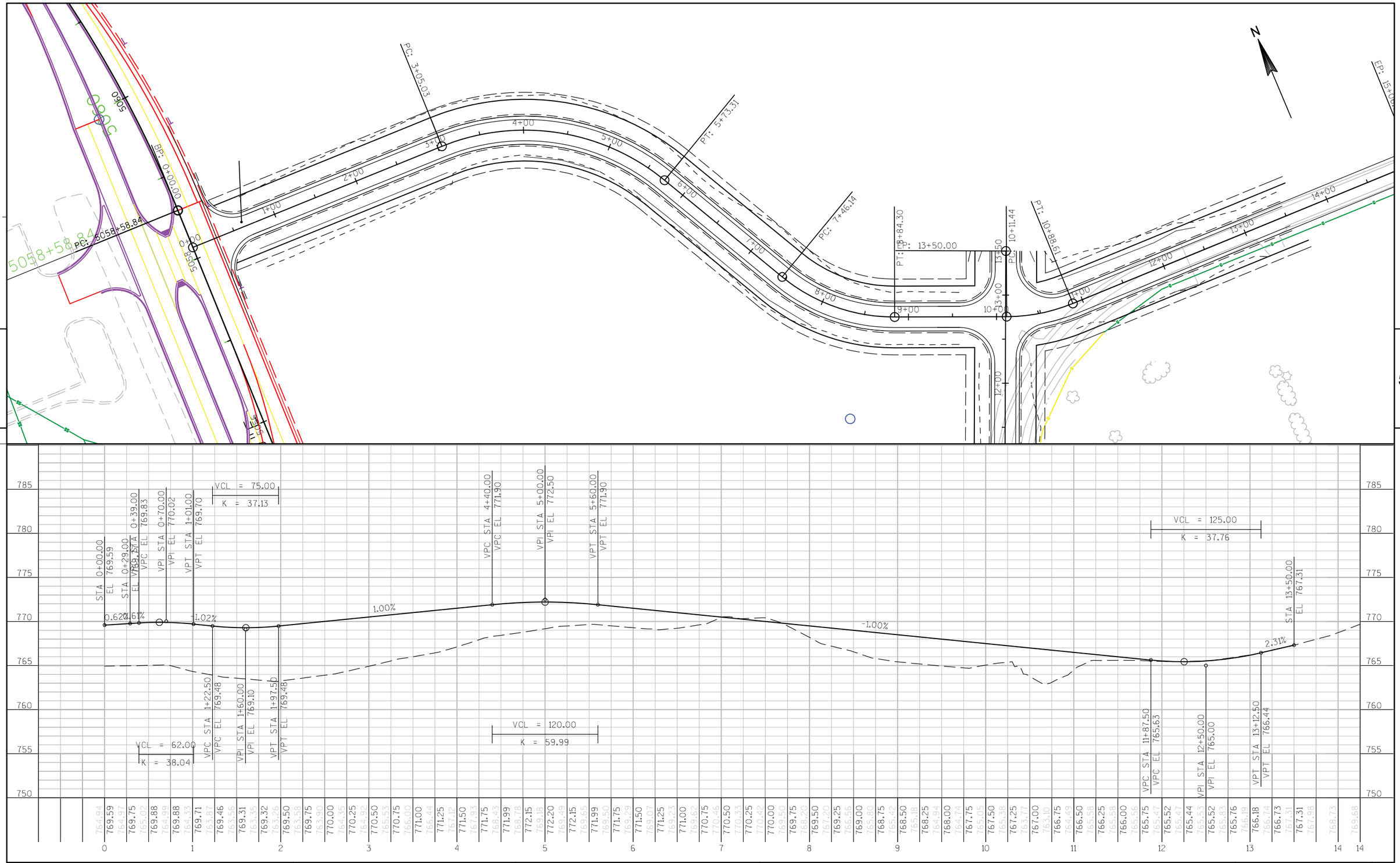
RAMP SE

795 790 785 780 775 770 765 760 755

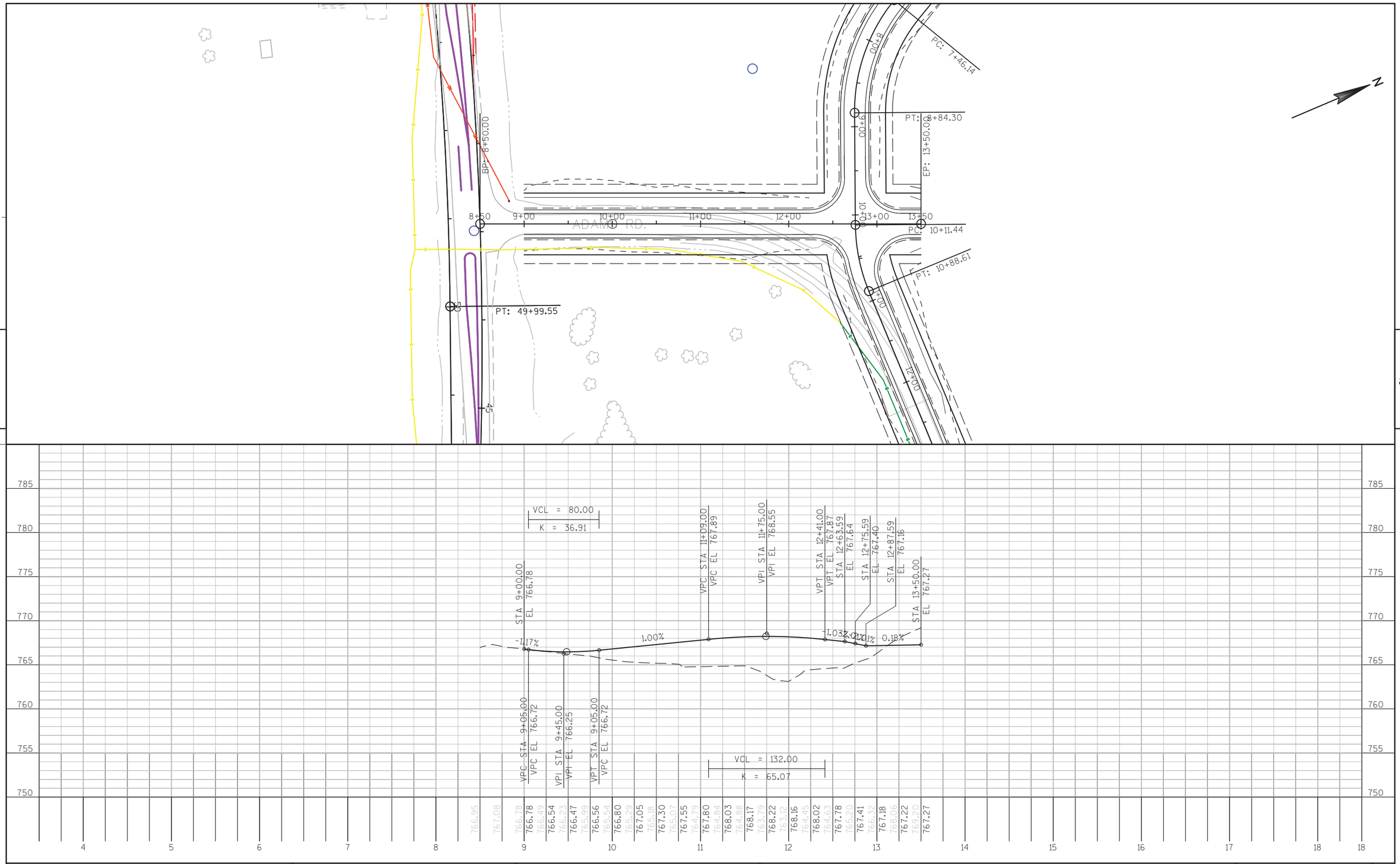
763.3 763.8 764.3 765.1 765.10 765.6 765.53 766.0 765.97 766.4 766.41 766.8 766.85 767.3 767.42 767.9 767.99 768.5 768.56 768.7 769.13 768.8 769.70 769.1 770.27 769.0 770.82 769.1 771.34 769.0 771.86 768.8 772.38 768.9 772.90 769.1 773.42 769.6 773.94 770.3 774.46 770.8 774.97 771.3 775.46 772.2 775.94 772.9 776.40 773.4 776.84 774.0 777.26 774.7 777.67 775.2 778.05 775.9 778.42 776.6 778.77 777.4 779.11 778.1 779.42 778.8 779.72 779.5 780.00 779.8 780.27 780.1 780.51 780.3 780.74 780.6 780.95 780.8 781.14 781.0 781.32 781.2 781.47 781.5 781.61 781.7 781.73 781.9 781.84 782.2 781.93 782.3 782.03 782.3 782.12 782.4 782.22 782.4 782.29 782.4 782.30 782.4 782.26 782.3 782.17 782.1 781.8 781.5 781.2

1037 1038 1040 1042 1044 1046 1048 1050 1052

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN AND PROFILE: RAMP SE	SCALE, FEET 0 50 100	SHEET 156 E



PROJECT NO: 1030-11-00	HWY: CTH K	COUNTY: RACINE	PLAN AND PROFILE: A&W ACCESS ROAD	SHEET .156A	E



PROJECT NO: 1030-11-00	HWY: CTH K	COUNTY: RACINE	PLAN AND PROFILE: ADAMS ROAD	SHEET 156B	E

Standard Detail Drawing List

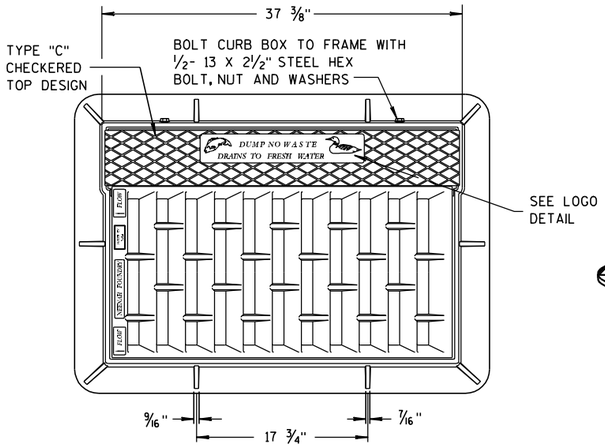
08A05-18A	INLET COVERS TYPE A, H, A-S, & H-S
08A05-18B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-18C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08A05-18D	INLET COVER, TYPE BW, Z MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-01	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C06-01	INLETS 3-FT AND 4-FT DIAMETER
08C07-01	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08C08-01	INLETS MEDIAN 1 AND 2 GRATE
08D01-17	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F07-03	STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SIDE DRAINS SLOPED SECTION
09A01-12A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
09B02-07	CONDUIT
09B04-09	PULL BOX
09C05-07	CONCRETE CONTROL CABINET BASES
10A01-02	ELECTRICAL HANDHOLE WIRING
10A02-02	IDENTIFICATION PLAQUES LIGHT POLES
10A05-02	ELECTRICAL DETAILS GROUND MOUNT LIGHT POLES ISOLATED NEUTRAL SYSTEMS
11B02-02	CONCRETE MEDIAN NOSE
13C01-15	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C11-10A	RURAL DOWELED CONCRETE PAVEMENT
13C11-10B	RURAL DOWELED CONCRETE PAVEMENT
13C16-01	CONCRETE JOINT DETAIL FOR TEE INTERSECTION BYPASS LANE AND RIGHT TURN LANE
13C18-01A	CONCRETE PAVEMENT JOINTING
13C18-01B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-01C	CONCRETE PAVEMENT JOINT TIES
13C18-01D	CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES
14B33-01G	CONCRETE BARRIER SINGLE SLOPE 42" THRIE BEAM ANCHOR
14B33-01H	CONCRETE BARRIER SINGLE SLOPE 42" THRIE BEAM ANCHOR
14B42-02A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-02B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-02C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B43-01A	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B43-01B	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B43-01C	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B43-02A	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B43-02B	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B43-02C	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B45-02I	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-02J	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15A02-07	DELINEATOR POST, DELINEATOR BRACKET AND DELINEATOR
15A03-01	MARKER POSTS, FLEXIBLE, FOR CULVERT END
15A06-02	DELINEATOR LAYOUT
15B01-08A	FENCE WOVEN WIRE
15B01-08B	FENCE WOVEN WIRE
15C02-04A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-04B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C05-01	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-12B	PAVEMENT MARKING WORDS
15C07-12C	PAVEMENT MARKING ARROWS
15C08-15A	PAVEMENT MARKING (MAINLINE)
15C08-15B	PAVEMENT MARKING (INTERSECTIONS)
15C08-15E	PAVEMENT MARKING (LEFT TURN LANE)
15C08-15F	PAVEMENT MARKING (ISLANDS, STOP LINE & CROSS WALK)
15C11-05	FLEXIBLE TUBULAR MARKER POST, ANCHOR & BASES
15C12-03	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C18-03	MEDIAN ISLAND MARKING
15C26-02	END-OF-ROADWAY SIGNING
15C31-01A	PAVEMENT MARKING (RAMPS AND GORES)
15D12-02	TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
15D16-01	TRAFFIC CONTROL, EXIT RAMP CLOSURE

6

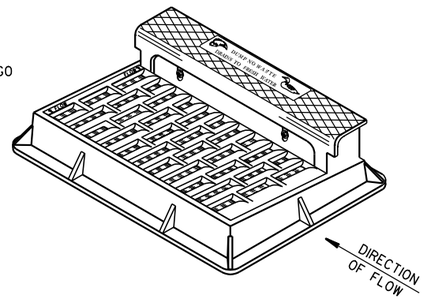
Standard Detail Drawing List

16A01-06 LANDMARK REFERENCE MONUMENTS AND COVERS

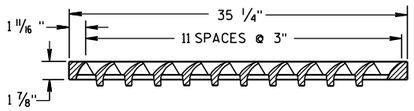
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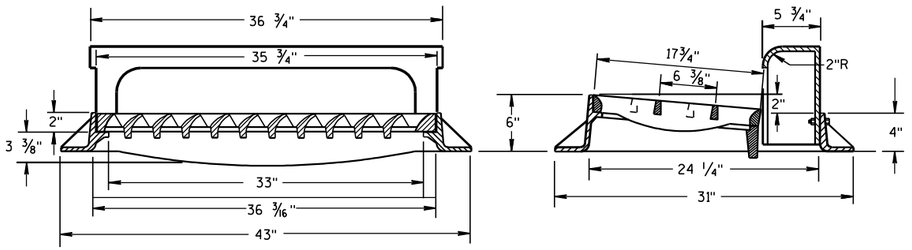


NOTE:
GRATE IS REVERSIBLE.



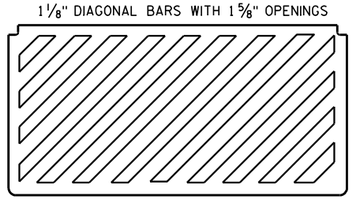
NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"





TYPE "H"

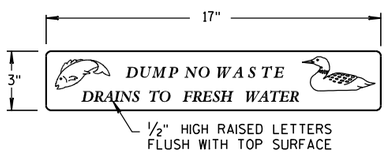
(APPROXIMATE WEIGHT 441 LBS.)
FRAME..... 181 LBS.
GRATE..... 146 LBS.
CURB BOX..... 114 LBS.



SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")
(APPROXIMATE WEIGHT 159 LBS.)
GRATE..... 159 LBS.

(NOTED AS TYPE H-S ON DRAINAGE TABLE)



LOGO DETAIL

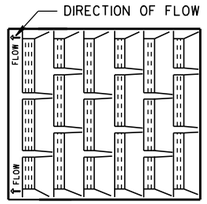
GENERAL NOTES

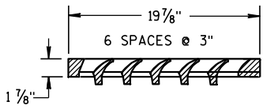
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

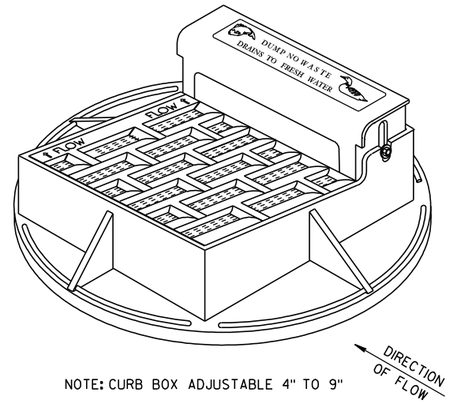
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

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

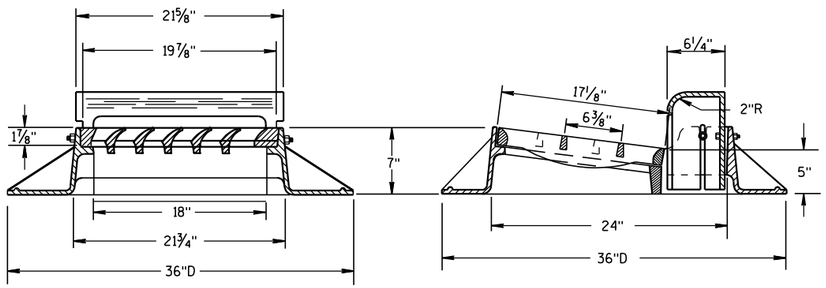
THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.





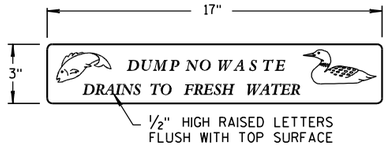


NOTE: CURB BOX ADJUSTABLE 4" TO 9"



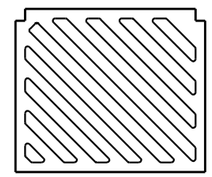
TYPE "A"

(APPROXIMATE WEIGHT 340 LBS.)
FRAME..... 185 LBS.
GRATE..... 71 LBS.
CURB BOX..... 84 LBS.



LOGO DETAIL

NOTE:
GRATE IS REVERSIBLE.



SPECIAL GRATE FOR TYPE "A" COVER

(MEASURES 19 3/4" X 17" X 1 7/8"
GRATE..... 84 LBS.

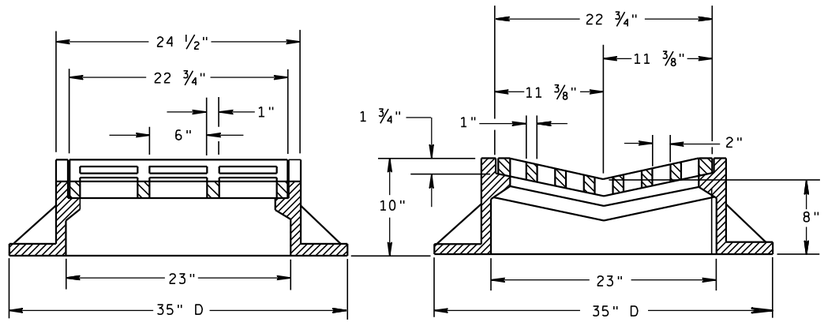
(NOTED AS TYPE A-S ON DRAINAGE TABLE)

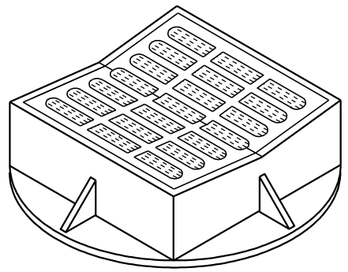
INLET COVERS
TYPE A, H, A-S, & H-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 DATE
/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER
FHWA

6
S.D.D. 8 A 5-18a

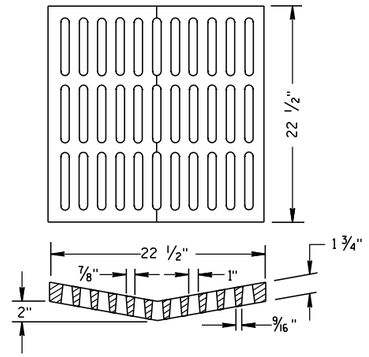




TYPE "B"

(APPROXIMATE WEIGHT 405 LBS.)

FRAME..... 294 LBS.
GRATE..... 111 LBS.

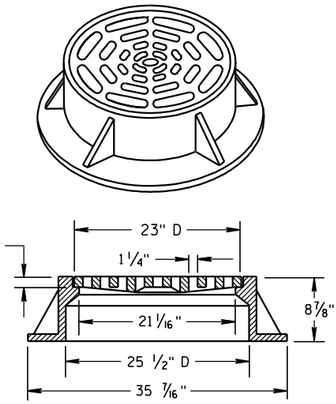


ALTERNATIVE GRATE FOR TYPE "B" COVER

(APPROXIMATE GRATE WEIGHT 134 LBS.)

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.

NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

(APPROXIMATE WEIGHT 259 LBS.)

FRAME..... 152 LBS.
GRATE..... 107 LBS.

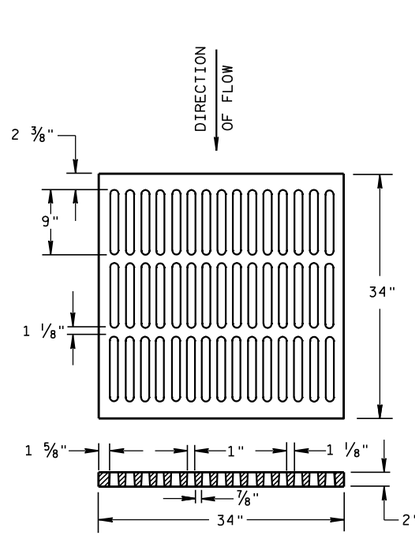
GENERAL NOTES

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

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

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

THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.

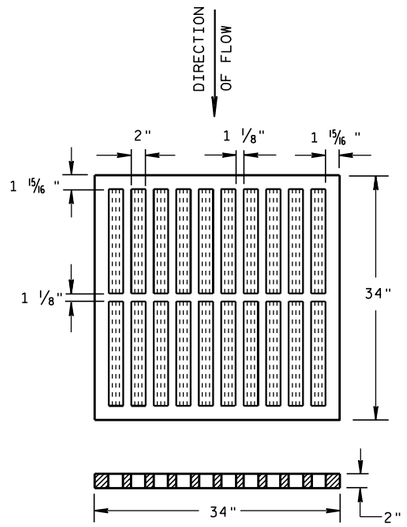


ALTERNATIVE TYPE "MS"

(APPROXIMATE GRATE WEIGHT 329 LBS.)

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED

NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

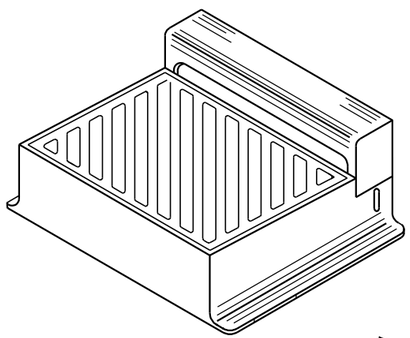


TYPE "MS"

(APPROXIMATE GRATE WEIGHT 268 LBS.)

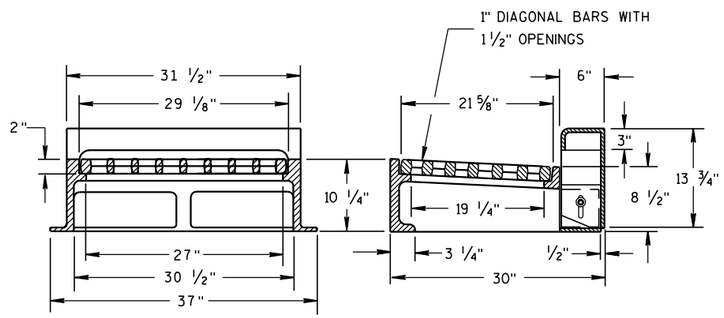
USE ON FREEWAYS AND EXPRESSWAYS

NOTED AS TYPE MS ON DRAINAGE TABLE



DIRECTION OF FLOW

DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

(APPROXIMATE WEIGHT 648 LBS.)

FRAME..... 355 LBS.
GRATE..... 156 LBS.
CURB BOX..... 137 LBS.

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/5/2012
DATE

/S/ Jerry H. Zaas
ROADWAY STANDARDS ENGINEER

160

ENT

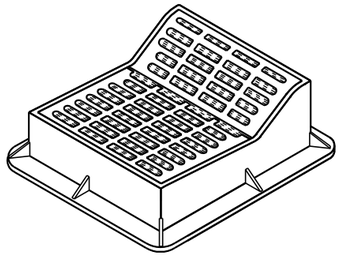
FHWA

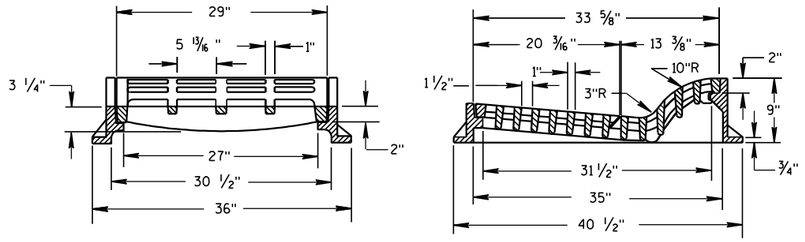
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S.D.D. 8 A 5-18b

6

S.D.D. 8 A 5-18b



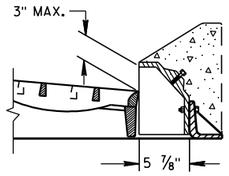


TYPE "F"

(APPROXIMATE WEIGHT 644 LBS.)

FRAME.....302 LBS.
GRATE.....160 LBS.
GRATE.....182 LBS.

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



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

(APPROXIMATE WEIGHT CURB BOX 68 LBS.)

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

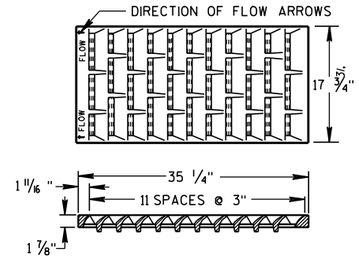
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

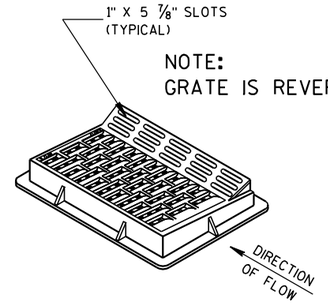
GENERAL NOTES

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

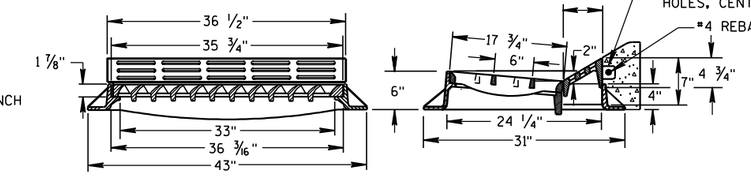
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.





NOTE:
GRATE IS REVERSIBLE.

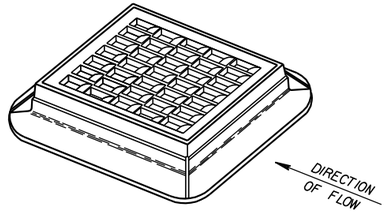


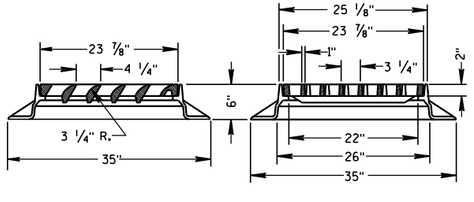
TYPE "HM"

(APPROXIMATE WEIGHT 414 LBS.)
FRAME..... 181 LBS.
GRATE..... 159 LBS.
CURB BOX..... 74 LBS.

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

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

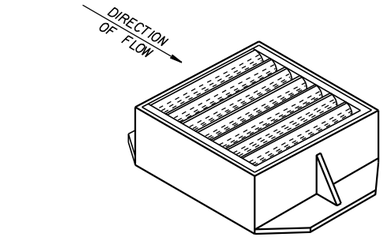


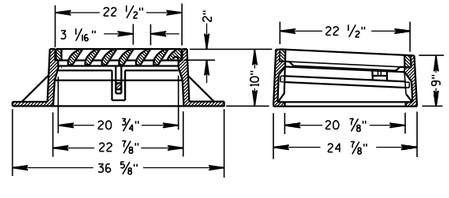


TYPE "S"

(APPROXIMATE WEIGHT 333 LBS.)

FRAME.....164 LBS.
GRATE..... 169 LBS.

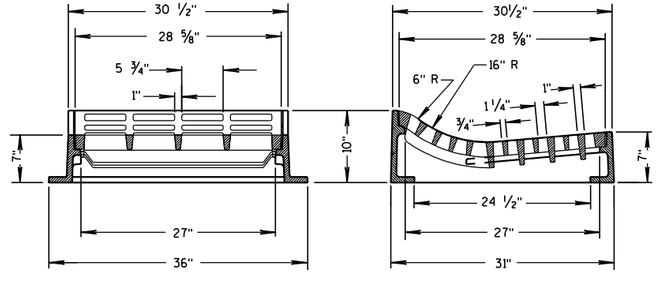




TYPE "V"

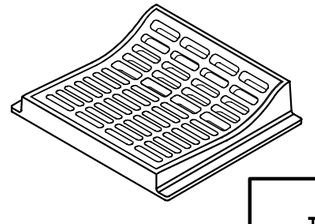
(APPROXIMATE WEIGHT 410 LBS.)

FRAME..... 269 LBS.
GRATE..... 136 LBS.
SAFETY BAR..... 5 LBS.



TYPE "T"

(APPROXIMATE WEIGHT 530 LBS.)
FRAME.....270 LBS.
GRATE.....260 LBS.
USE WITH TYPES R & T CONCRETE CURB & GUTTER, 36 INCH.



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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

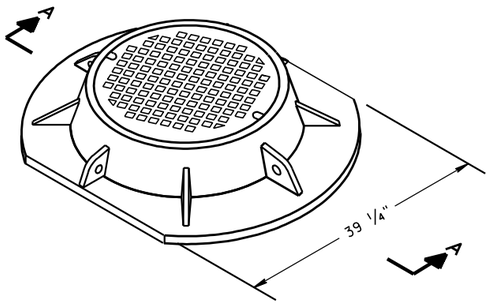
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

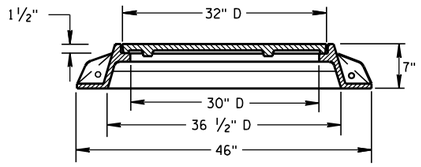
6

S.D.D. 8 A 5-18c

6

S.D.D. 8 A 5-18c



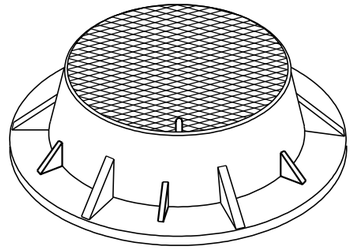


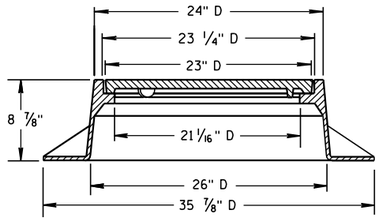
SECTION A-A

TYPE "K"

(APPROXIMATE WEIGHT 439 LBS.)

FRAME.....216 LBS.
LID.....223 LBS.

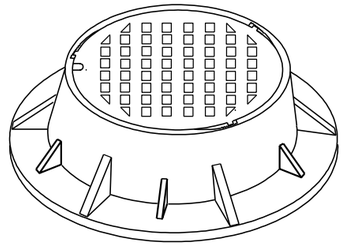


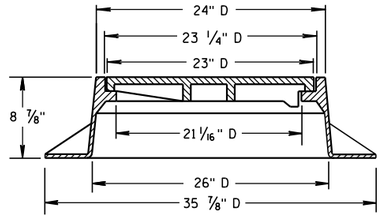


TYPE "J"

(APPROXIMATE WEIGHT 267 LBS.)

FRAME.....152 LBS.
LID.....115 LBS.





TYPE "J" SPECIAL

TYPE "B" NON-ROCKING SELF-SEAL LID

(APPROXIMATE WEIGHT 267 LBS.)

FRAME.....158 LBS.
LID.....109 LBS.

(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)

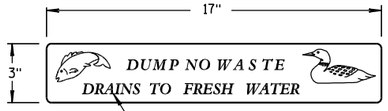
GENERAL NOTES

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

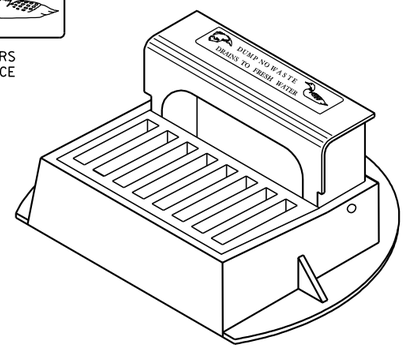
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

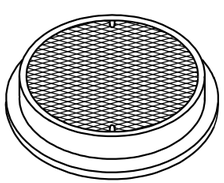
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

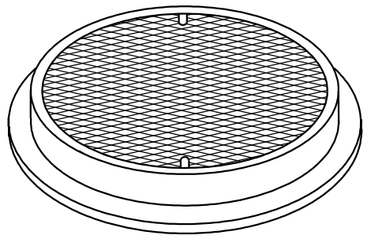
THE ACTUAL WEIGHT OF COVERS MAY VARY WITH 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.

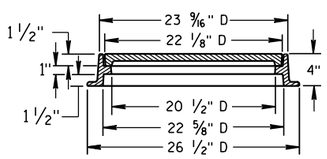


LOGO DETAIL





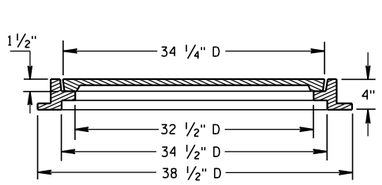




TYPE "L"

(APPROXIMATE WEIGHT 158 LBS.)

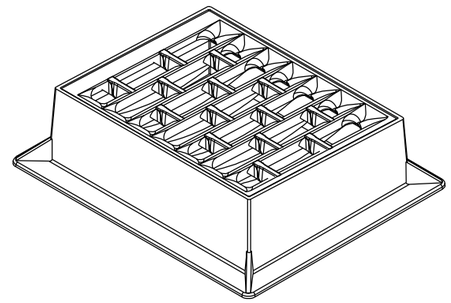
FRAME.....81 LBS.
LID.....77 LBS.

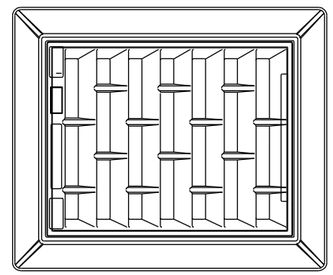


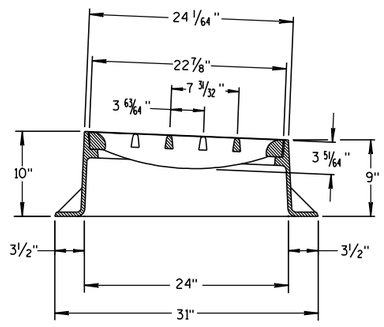
TYPE "M"

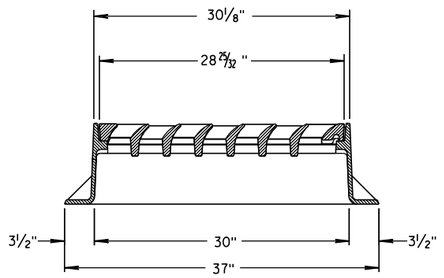
(APPROXIMATE WEIGHT 377 LBS.)

FRAME..... 125 LBS.
LID..... 252 LBS.

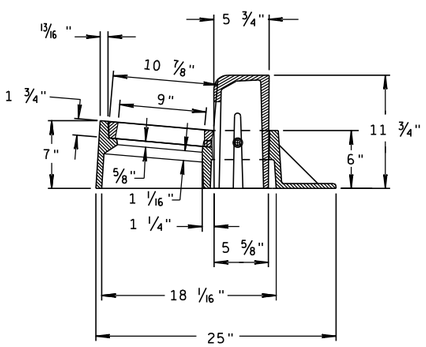








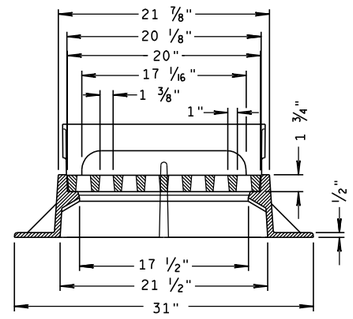
INLET COVER TYPE "BW"



INLET COVER TYPE "Z"

(APPROXIMATE WEIGHT 344 LBS.)

FRAME.....206 LBS.
GRATE..... 46 LBS.
CURB BOX..... 92 LBS.



INLET COVERS, TYPE BW, Z
MANHOLE COVERS, TYPE K, J, J-S, L & M

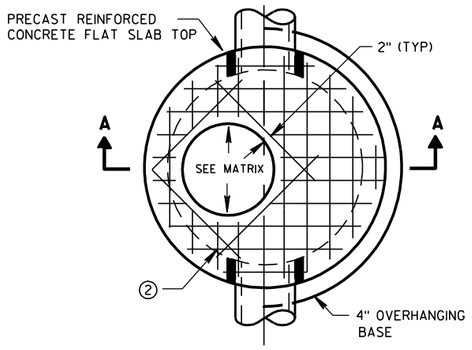
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

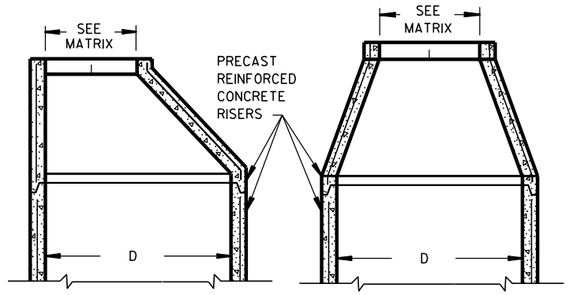
6/5/2012
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

FHWA

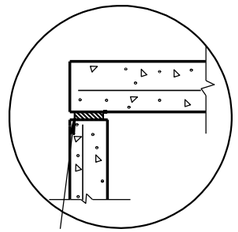


PLAN VIEW CIRCULAR OPENING



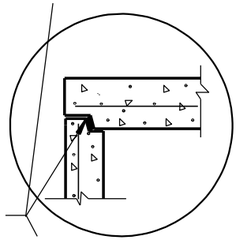
OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

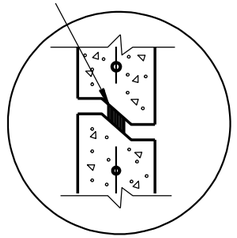


TOP WITH PLAIN END JOINT

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

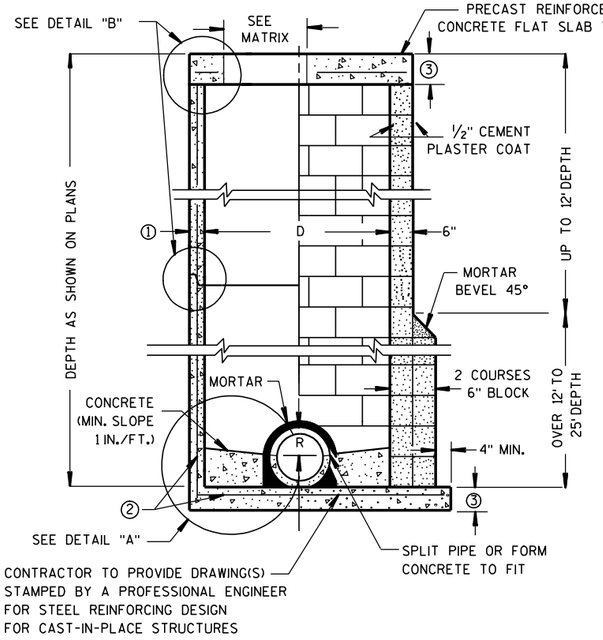


TOP WITH TONGUE AND GROOVE JOINT



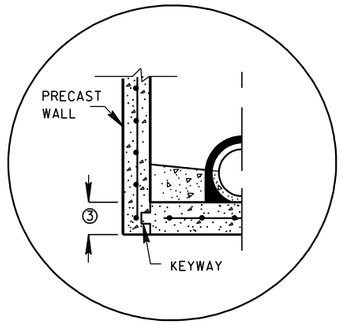
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

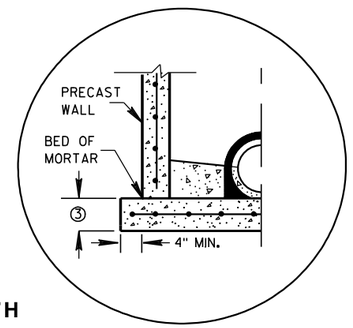


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

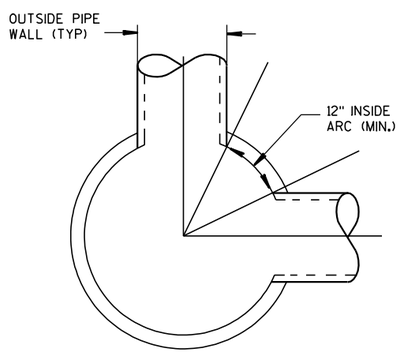


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPERATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

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 MANHOLE 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 DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE 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.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES. THE CONE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

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

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

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

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPERATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

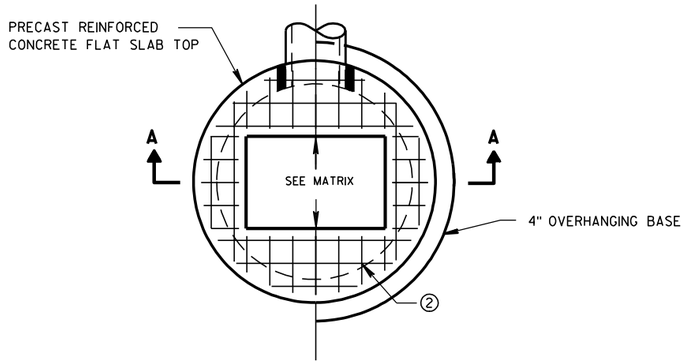
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6/5/2012
DATE

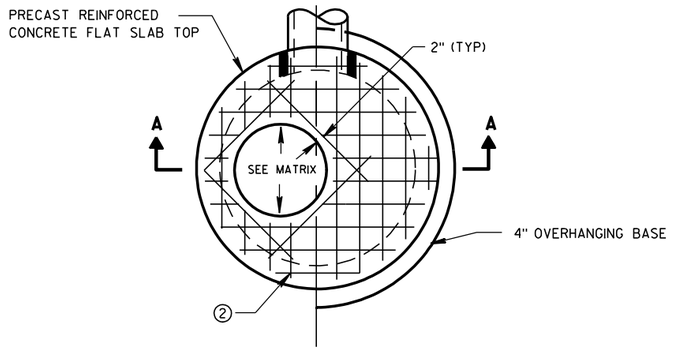
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

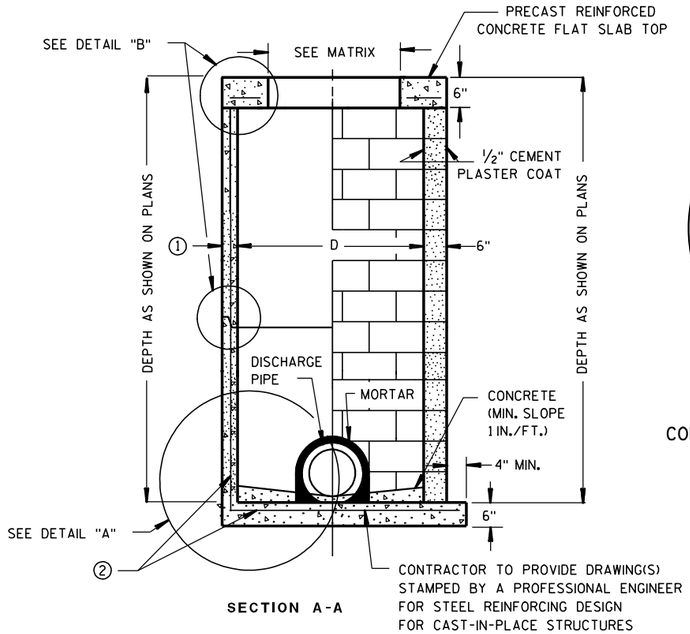
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PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

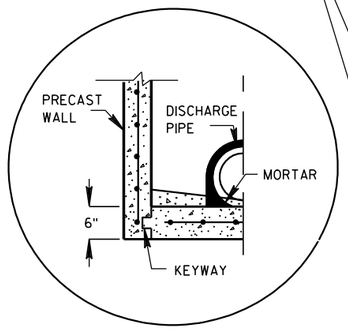


SECTION A-A

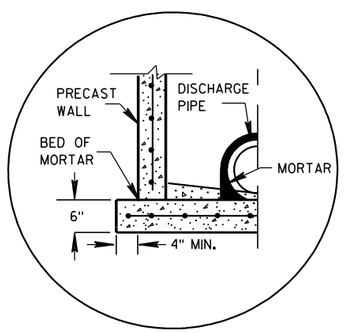
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

CIRCULAR INLETS W/ FLAT TOP

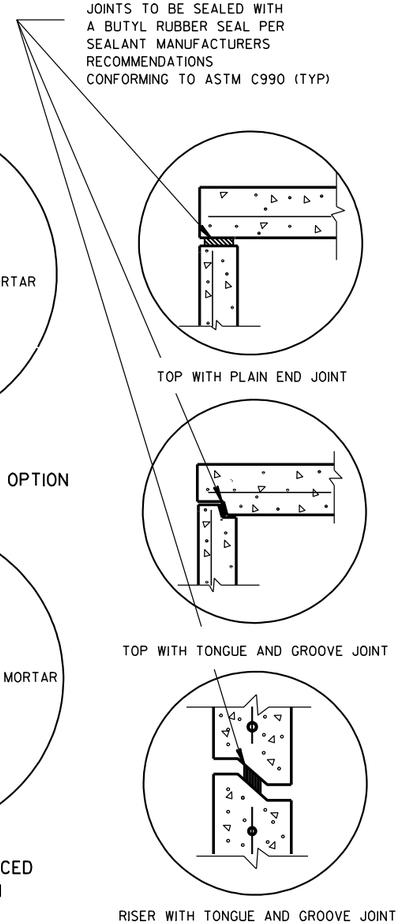


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPERATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "B"

GENERAL NOTES

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

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

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

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPERATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

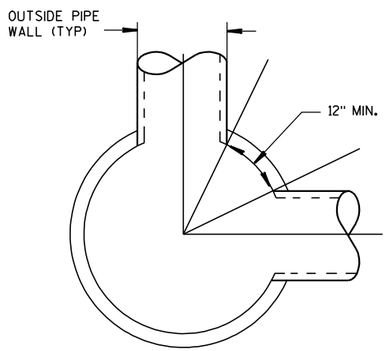
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

INLET COVER OPENING MATRIX

	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
INLET SIZE	OPENING SIZE (FT)											
3-FT	2 DIA.				X							X
	2X2	X	X					X		X		
4-FT	2 DIA.				X							X
	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2X3						X					
	2.5X3					X						



DETAIL "C"

PIPE MATRIX

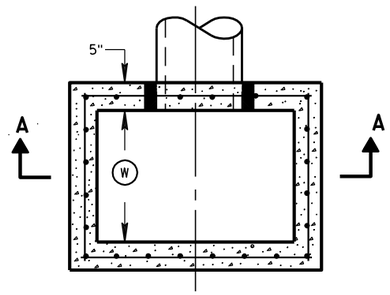
INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18

INLETS 3-FT AND 4-FT DIAMETER

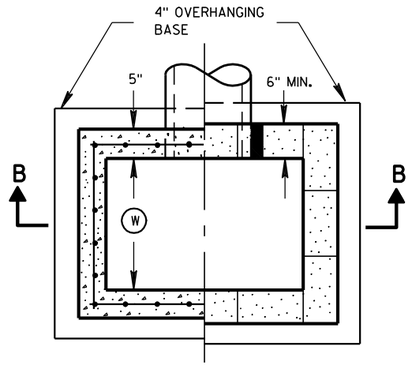
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

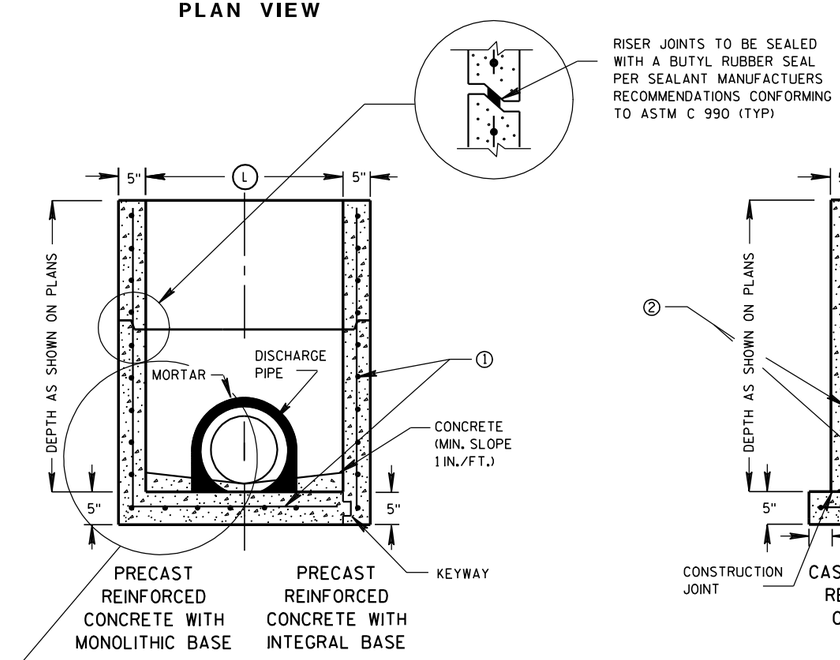
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S.D.D. 8 C 6-1



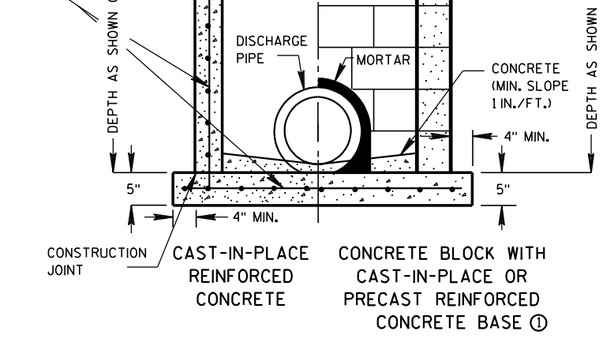
PLAN VIEW



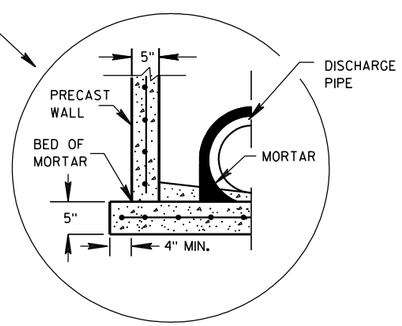
PLAN VIEW



SECTION A-A



SECTION B-B



SEPERATE 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.

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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.

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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 SEPERATE 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.

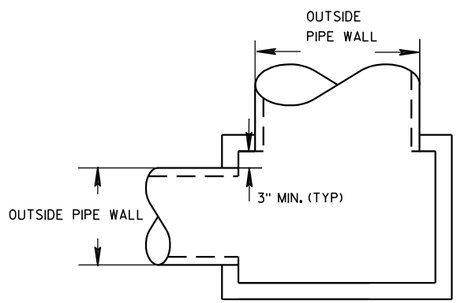
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

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

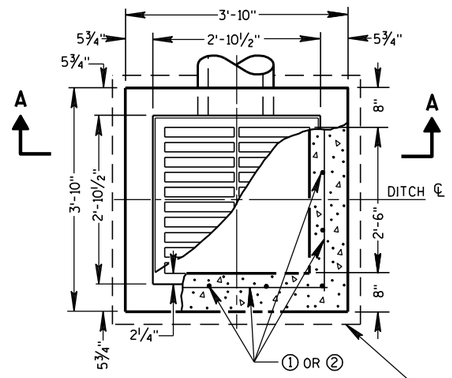
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zoda — ROADWAY STANDARDS D ENGINEER
FHWA

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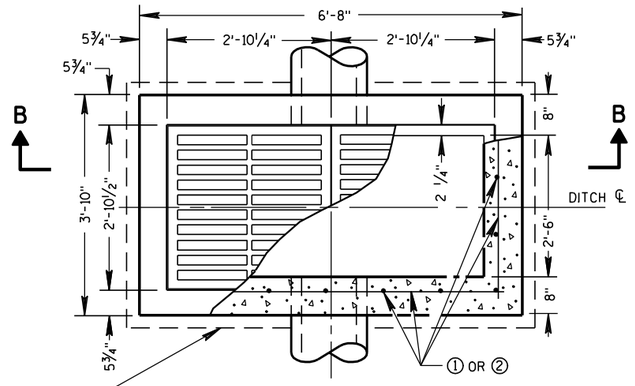
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S.D.D. 8 C 7-1

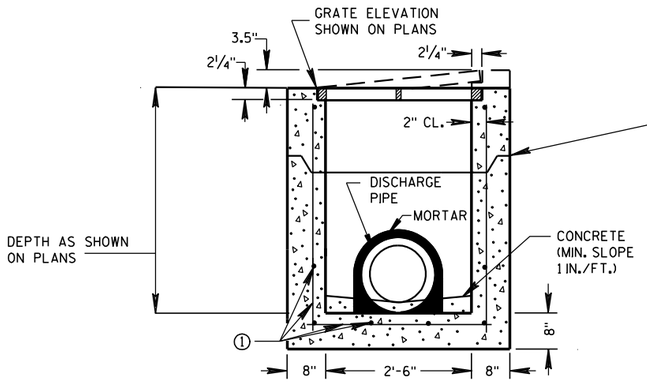


PLAN VIEW

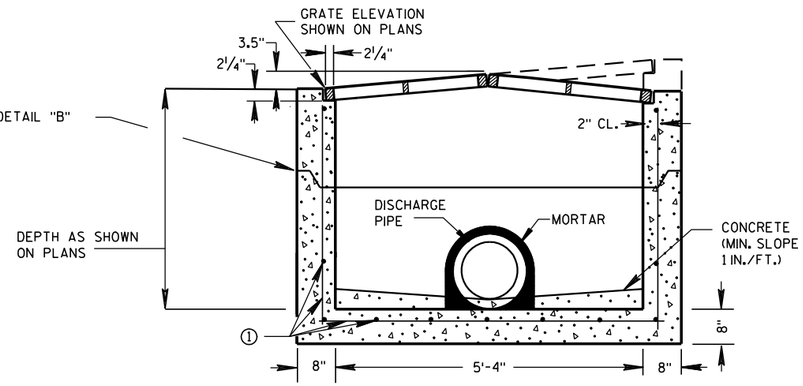


PLAN VIEW

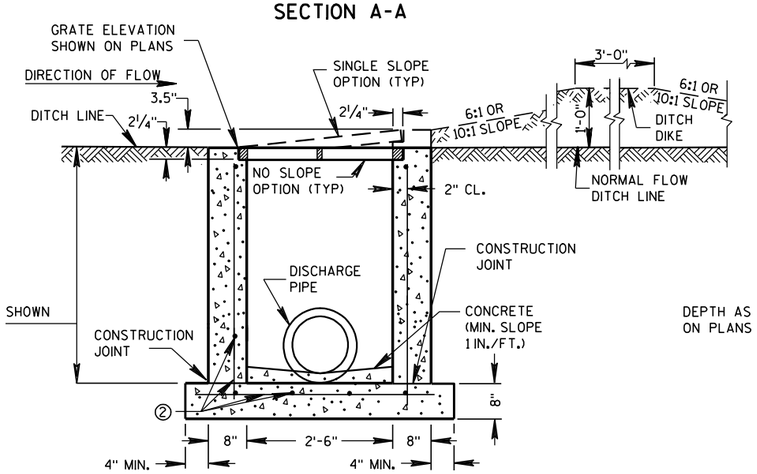
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



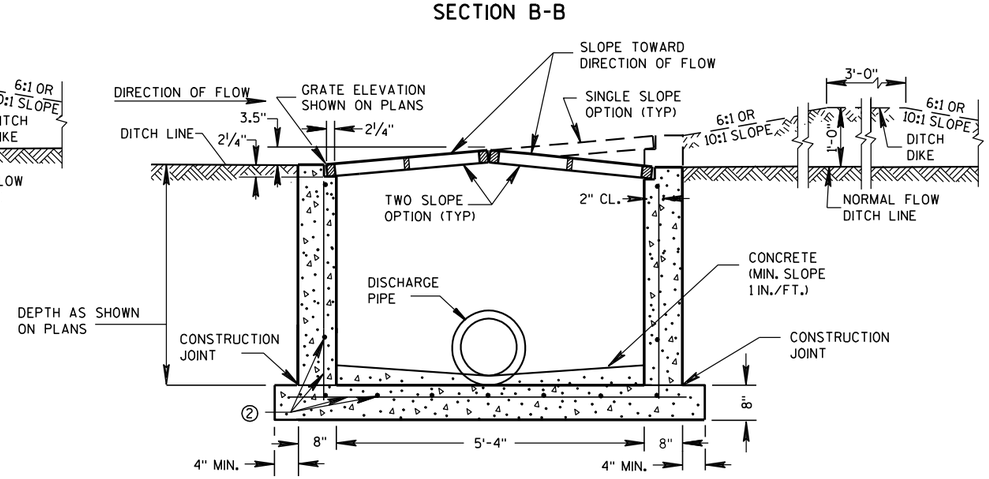
PRECAST REINFORCED CONCRETE SECTION A-A



PRECAST REINFORCED CONCRETE SECTION B-B



REINFORCED CAST-IN-PLACE CONCRETE SECTION A-A



REINFORCED CAST-IN-PLACE CONCRETE SECTION B-B

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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 INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 1G-MS", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

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.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

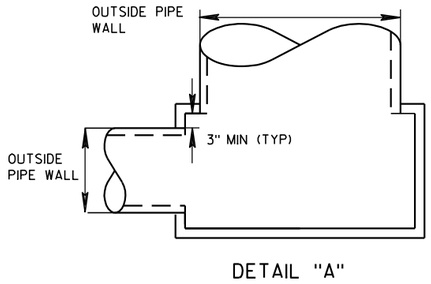
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

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.

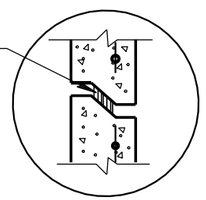
PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER	
INLET SIZE	WIDTH (IN)	LENGTH (IN)
1 GRATE	18	18
2 GRATE	18	42



DETAIL "A"

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



DETAIL "B"

INLETS MEDIAN 1 GRATE

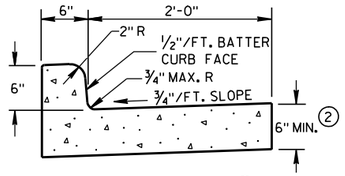
INLETS MEDIAN 2 GRATE

INLETS MEDIAN 1 AND 2 GRATE

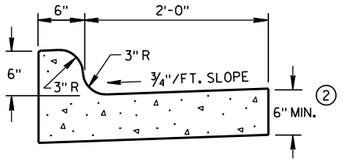
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

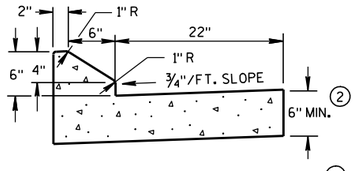
6
S.D.D. 8 C 8-1



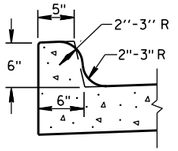
TYPES A & D (1)



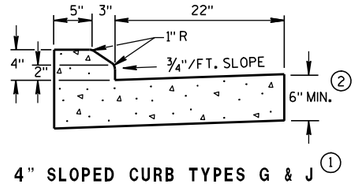
TYPES K & L (1)



6" SLOPED CURB TYPES G & J (1)

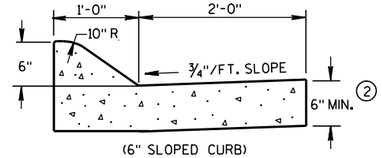


OPTIONAL CURB SHAPE FOR TYPES K & L (1)

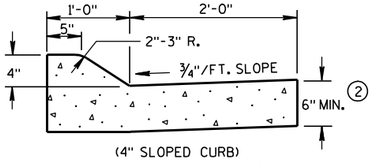


4" SLOPED CURB TYPES G & J (1)

CONCRETE CURB & GUTTER 30"

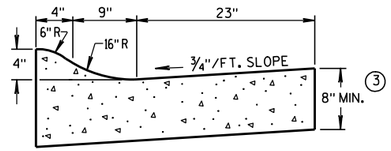


(6" SLOPED CURB)



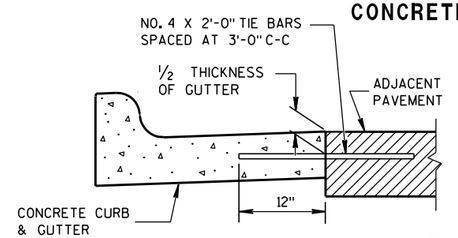
(4" SLOPED CURB)

TYPES A & D (1)



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

CONCRETE CURB & GUTTER 36"



TYPICAL TIE BAR LOCATION (1)

REVERSE SLOPE GUTTER (5)
(TYPICAL FOR ALL CURB & GUTTER TYPES)

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.

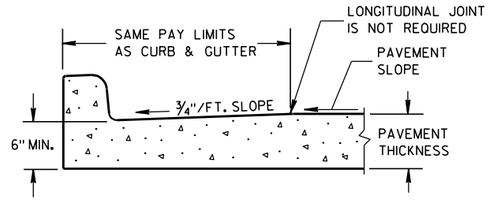
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K AND R.

(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.

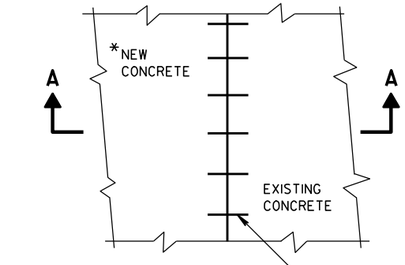
(3) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(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.

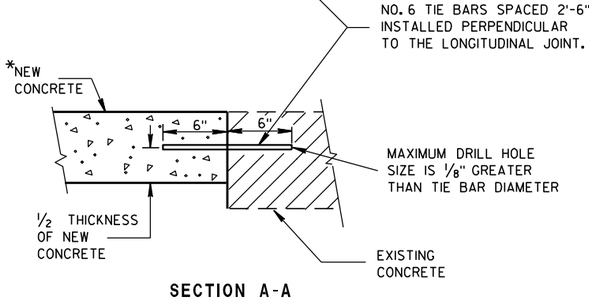


PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



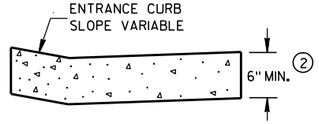
PLAN VIEW

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

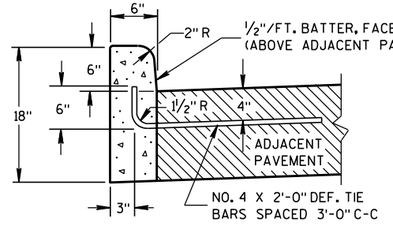


SECTION A-A

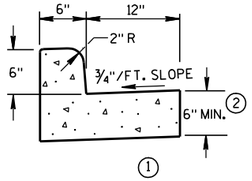
TIE BARS DRILLED INTO EXISTING PAVEMENT



DRIVEWAY ENTRANCE CURB
(WHEN DIRECTED BY THE ENGINEER)

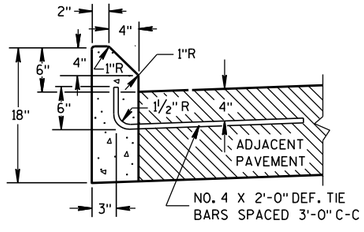


(1) TYPES A & D

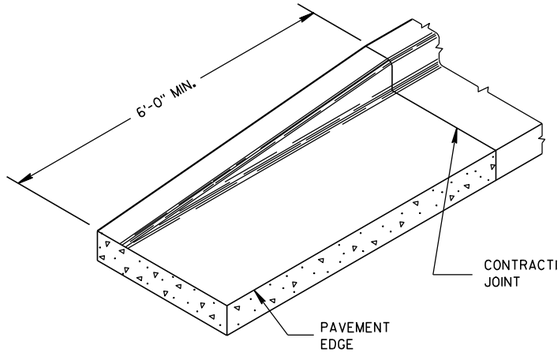


(1) TYPES A & D

CONCRETE CURB & GUTTER 18"



(1) TYPES G & J



END SECTION CURB & GUTTER

CONCRETE CURB

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

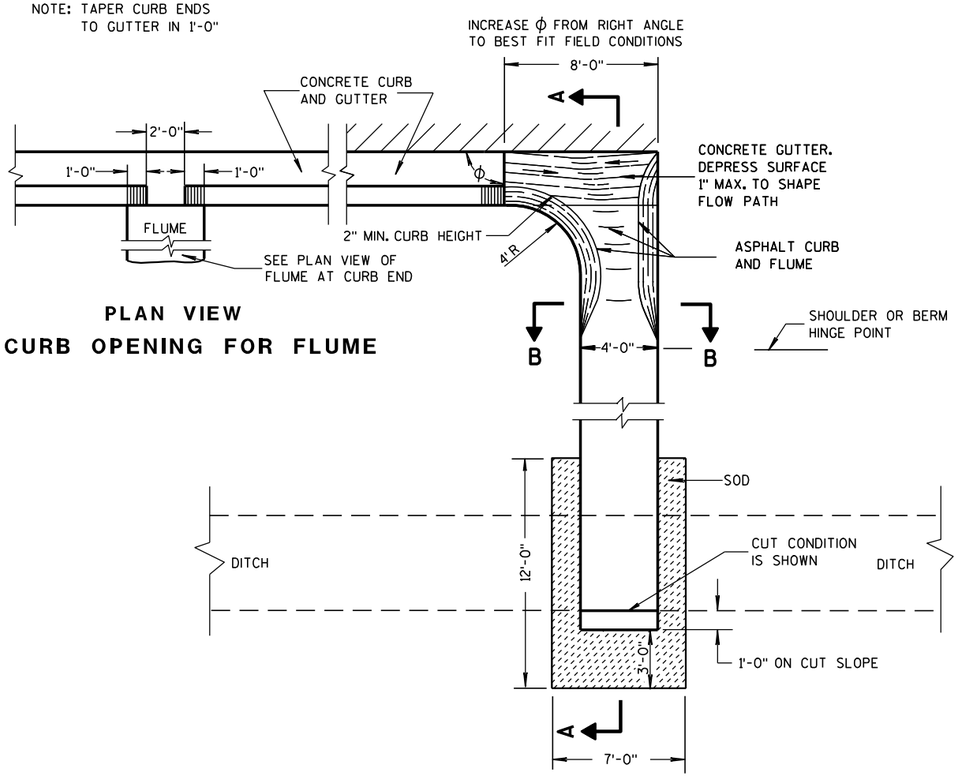
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S.D.D. 8 D 1-17

6

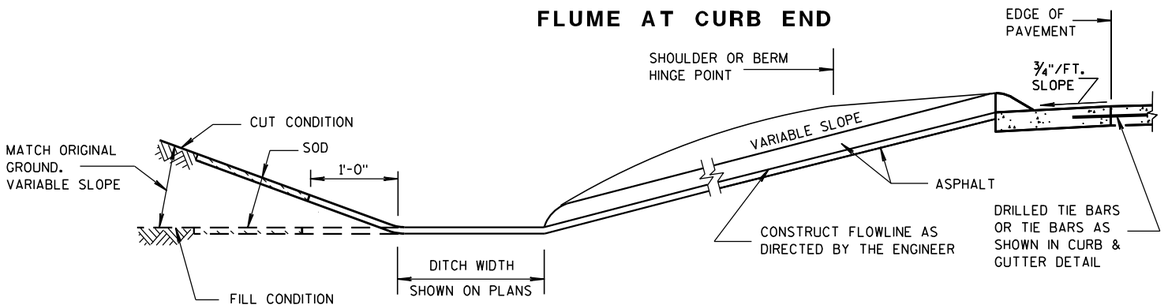
S.D.D. 8 D 1-17

ASPHALTIC FLUME

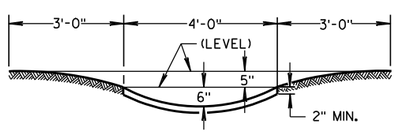


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

GENERAL NOTES

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

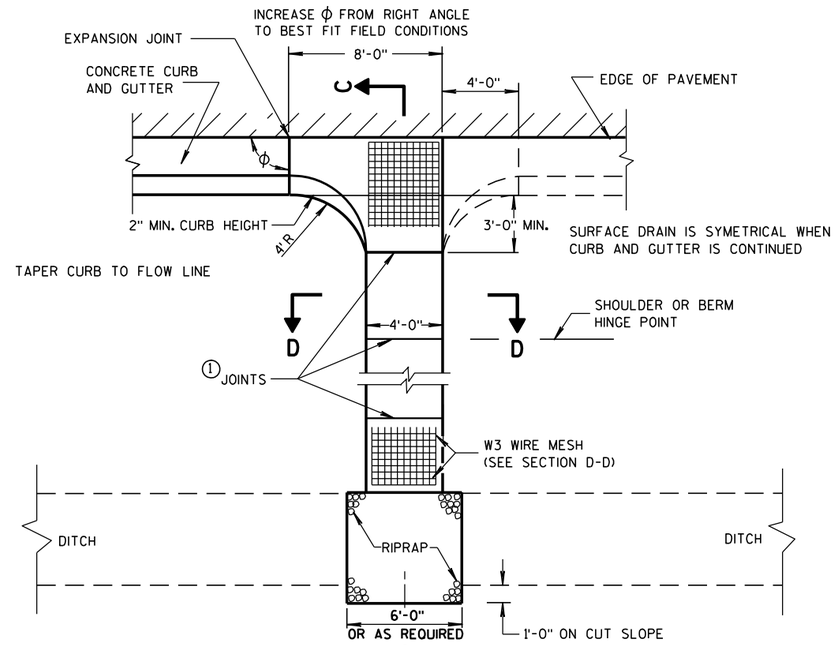
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE ⅛ TO ¼ INCH WIDE BY 1½ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

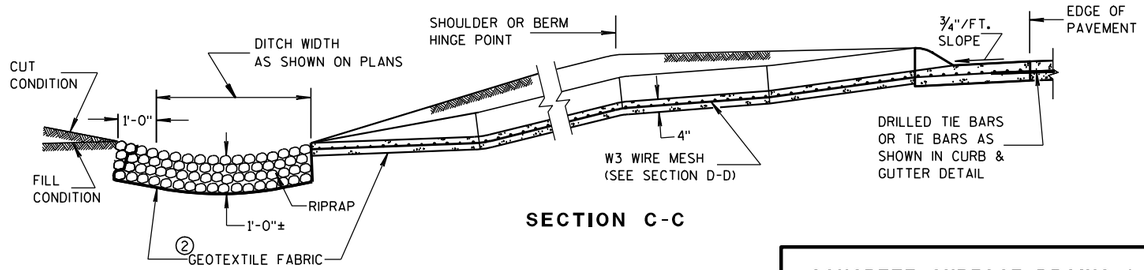
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

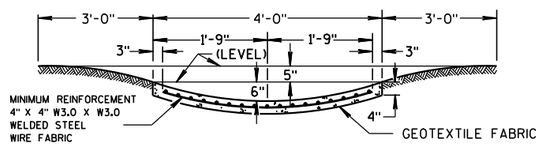
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

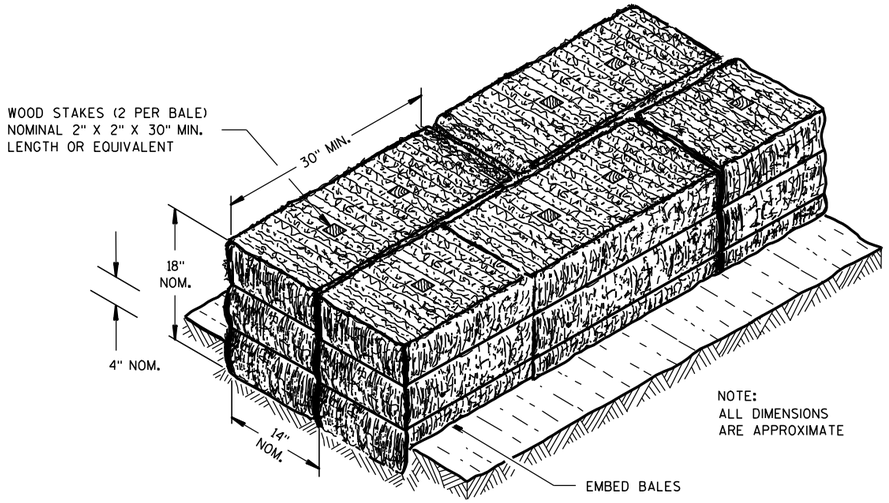
APPROVED
9-4-08 DATE
/S/ Jerry H. ... ROADWAY STANDARDS ENGINEER
FHWA

6

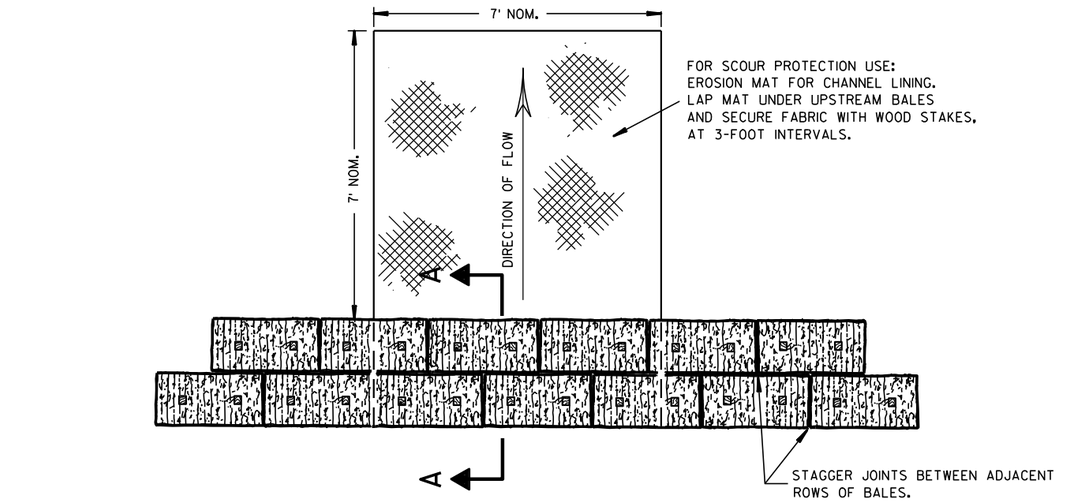
S.D.D. 8 D 4-5

6

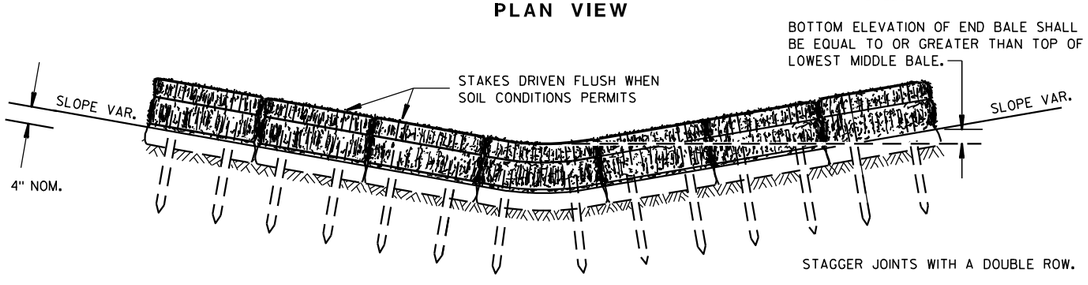
S.D.D. 8 D 4-5



SECTION A-A



PLAN VIEW



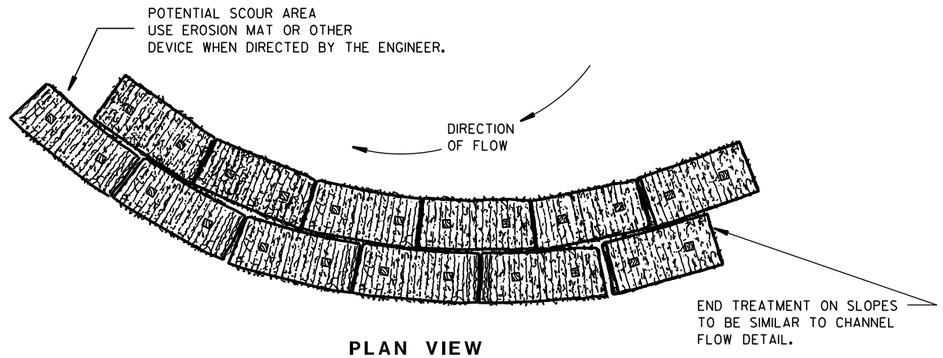
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

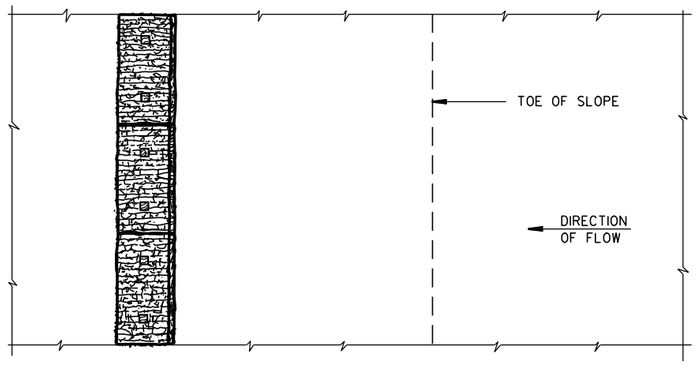
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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.

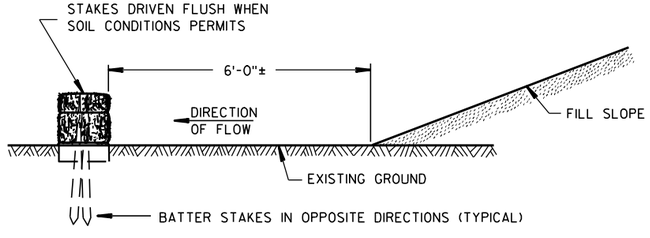


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

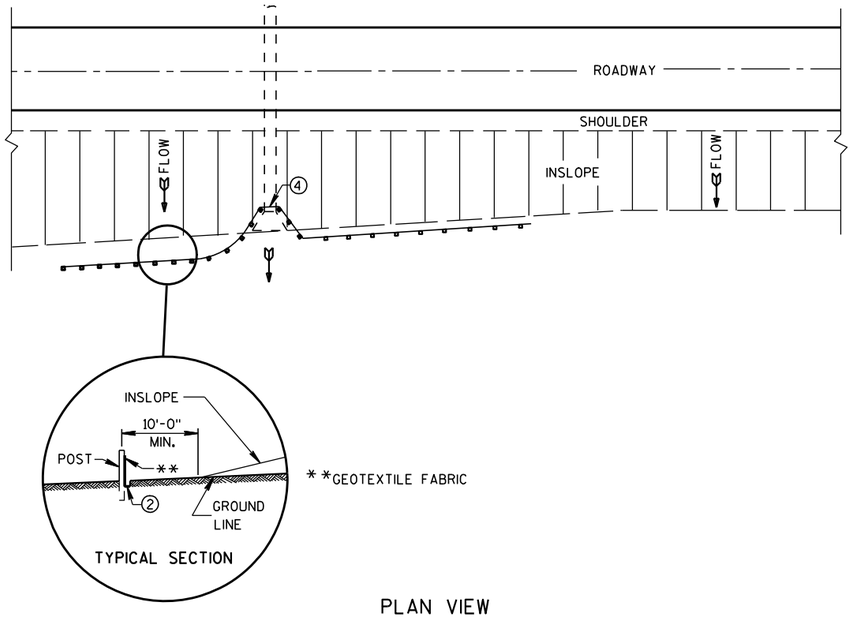
WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

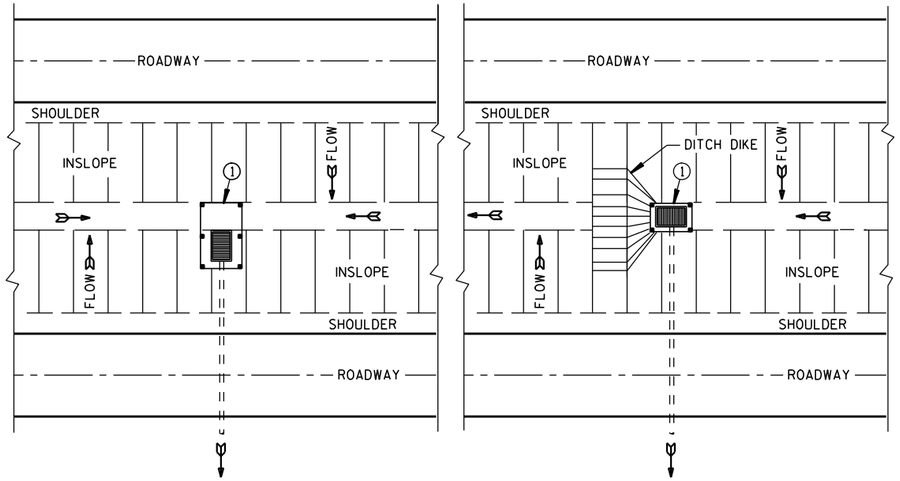
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



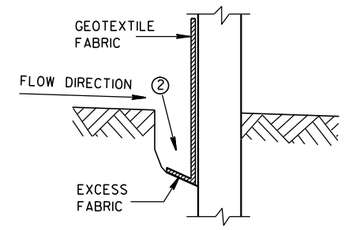
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

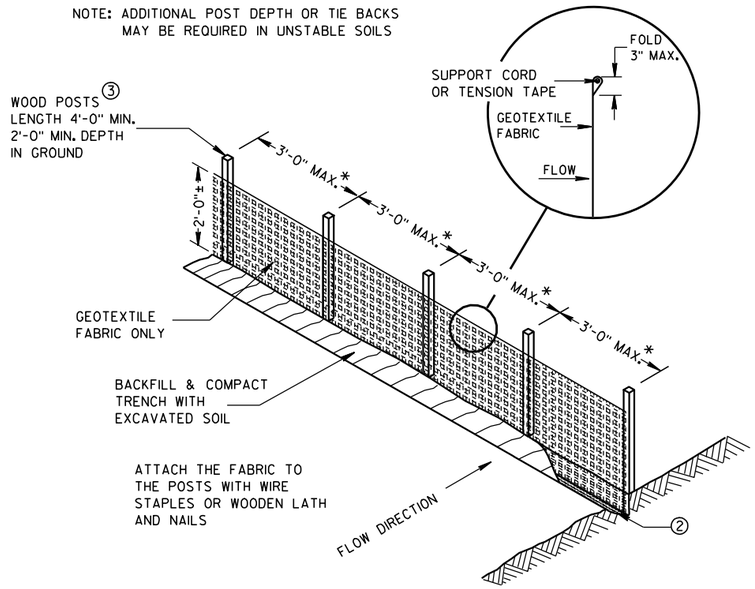
GENERAL NOTES

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

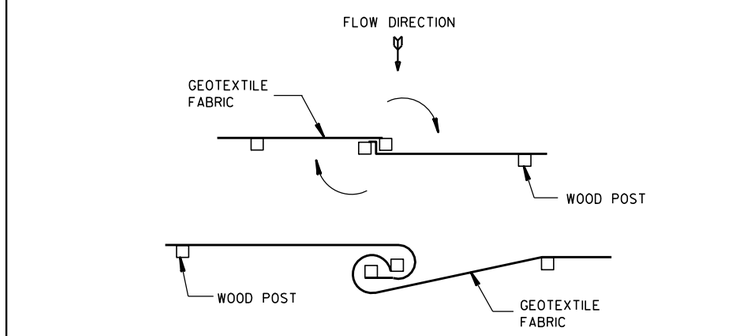
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL 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.



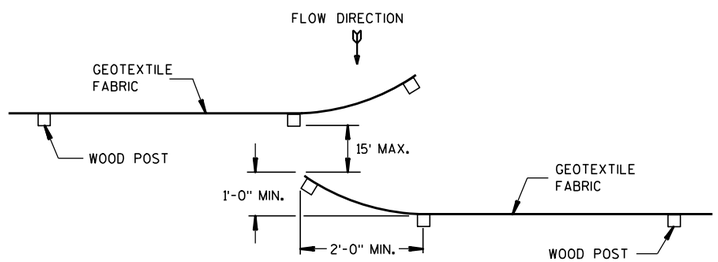
TRENCH DETAIL



SILT FENCE

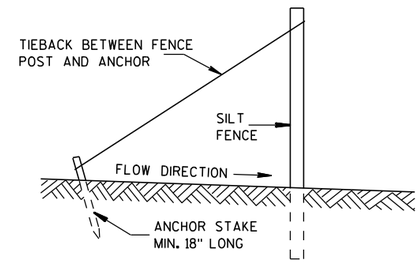


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



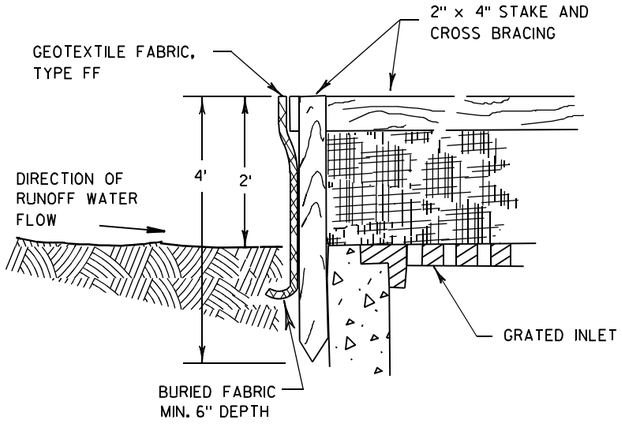
SILT FENCE TIE BACK

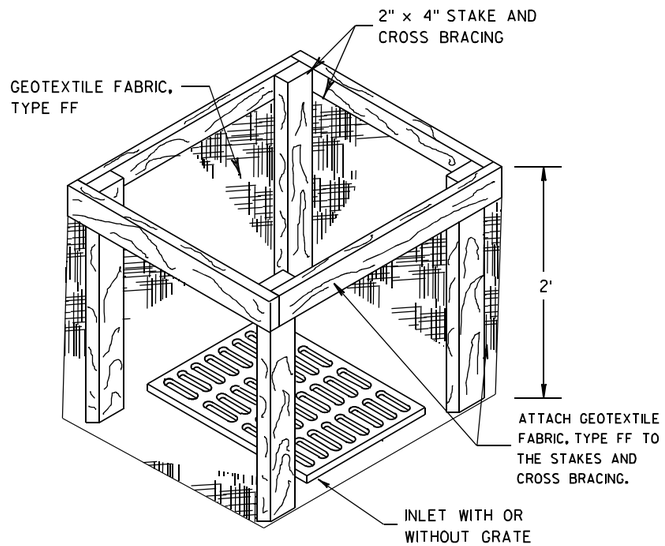
(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
4-29-05 DATE	/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA	

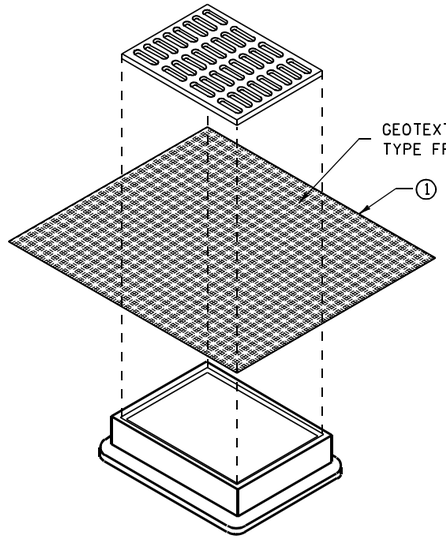
6

S.D.D. 8 E 9-6



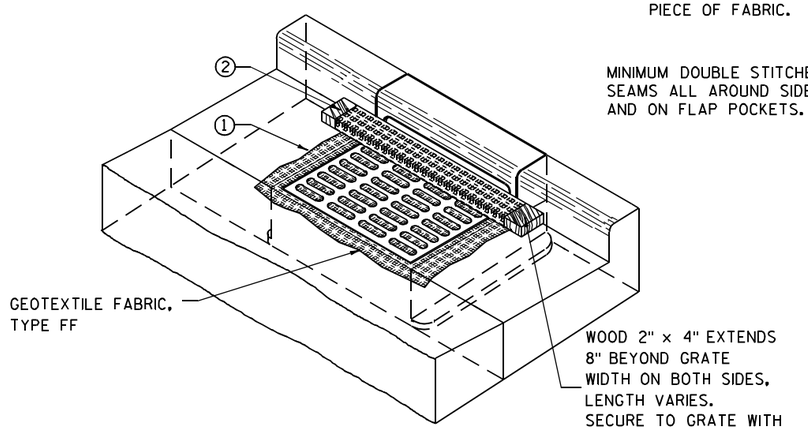


INLET PROTECTION, TYPE A

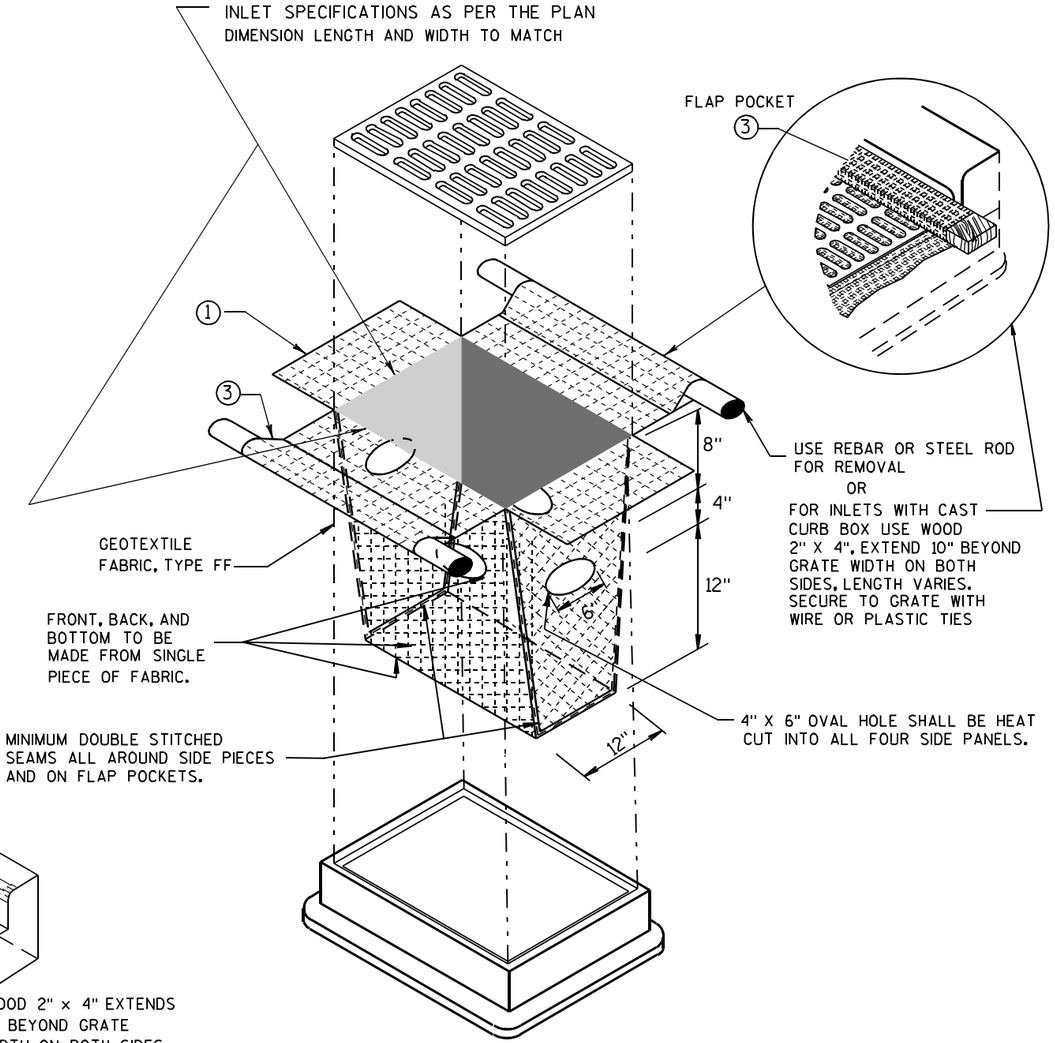


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(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.

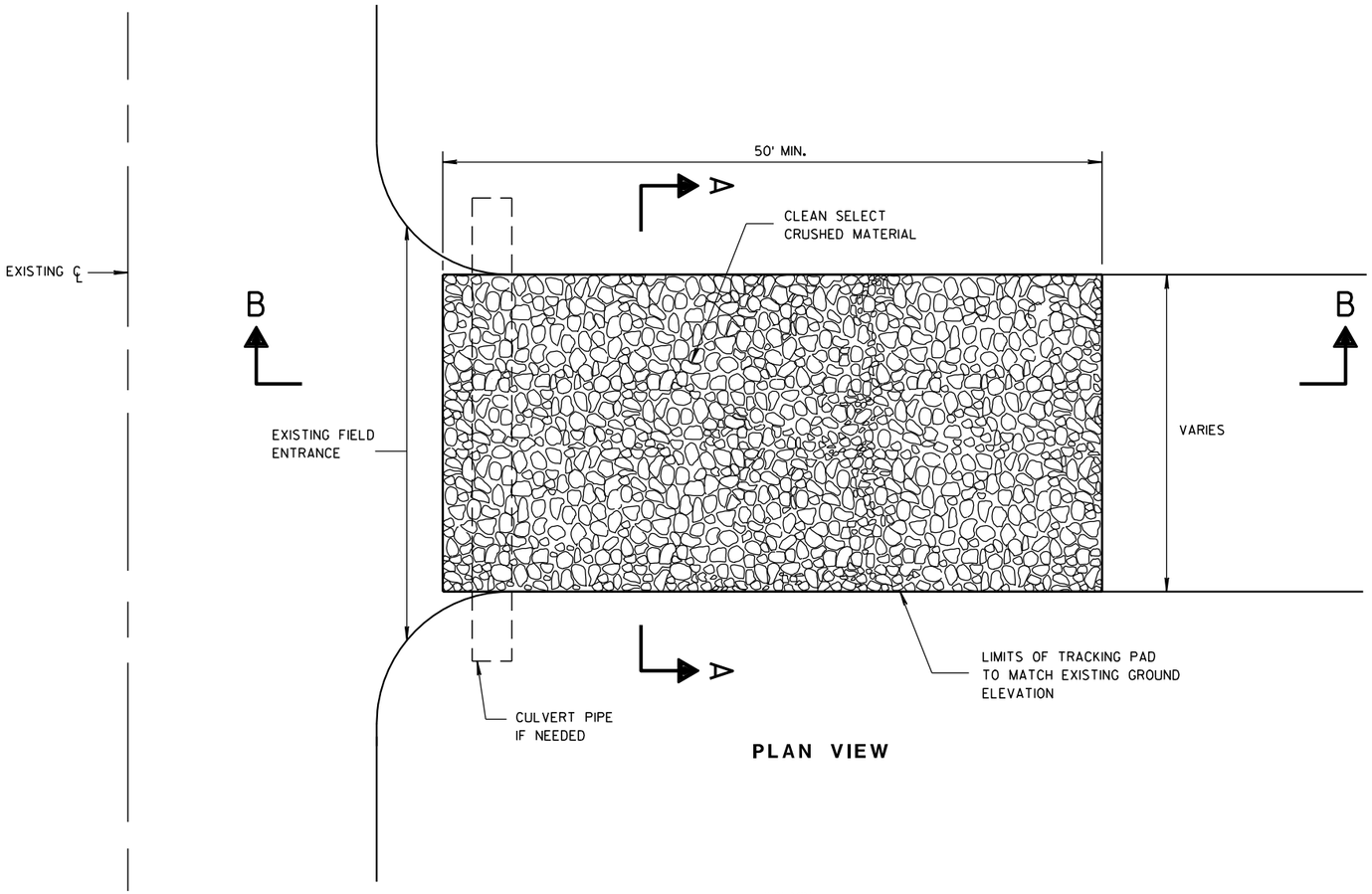
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

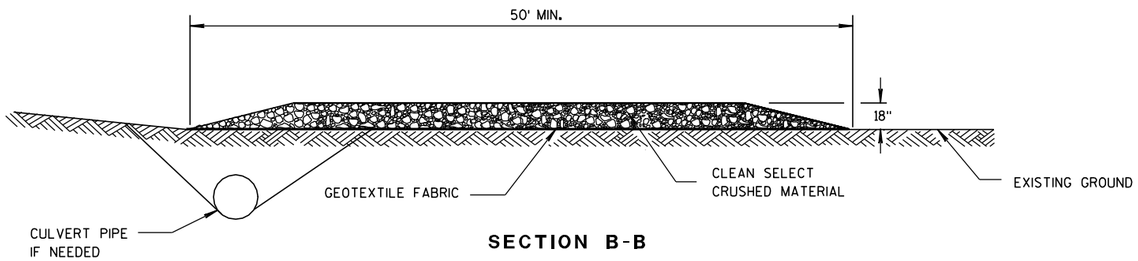
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

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



PLAN VIEW



SECTION B-B

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.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

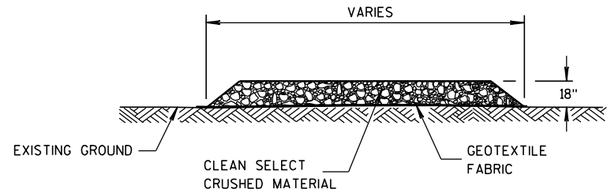
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A-A

TRACKING PAD

6

S.D.D. 8 E 14-1

TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/24/2011 DATE
/S/ Jerry H. Zoda ROADWAY STANDARDS ENGINEER
FHWA

ENT

6

S.D.D. 8 E 14-1

METAL APRON ENDWALLS

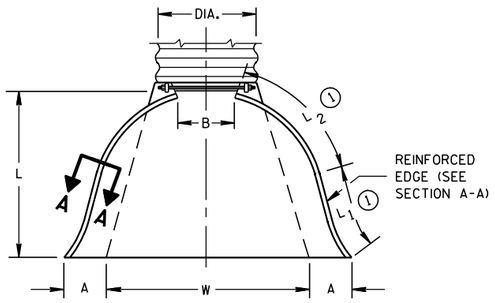
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4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

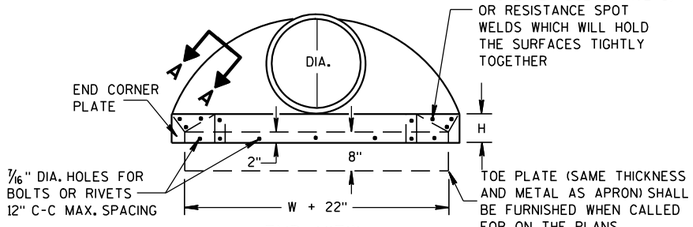
REINFORCED CONCRETE APRON ENDWALLS

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

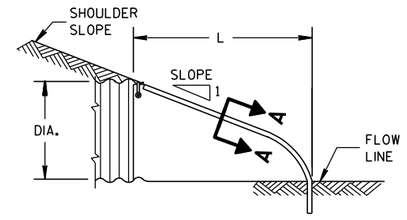
*MINIMUM
**MAXIMUM



PLAN VIEW

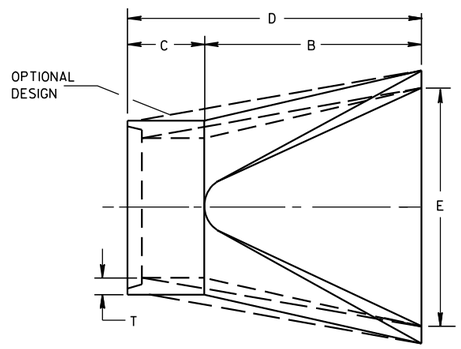


END VIEW

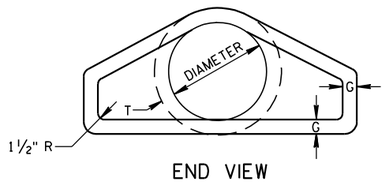


SIDE ELEVATION

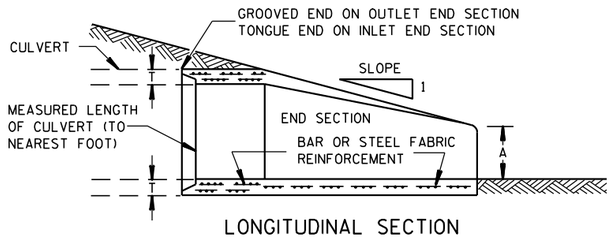
METAL ENDWALLS



PLAN

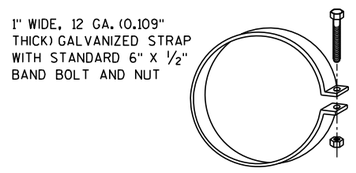


END VIEW



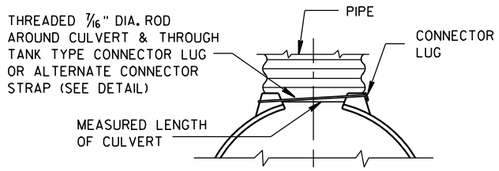
LONGITUDINAL SECTION

CONCRETE ENDWALLS

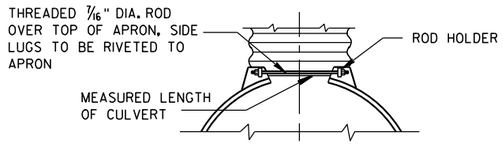


ALTERNATE FOR TYPE 1 CONNECTION

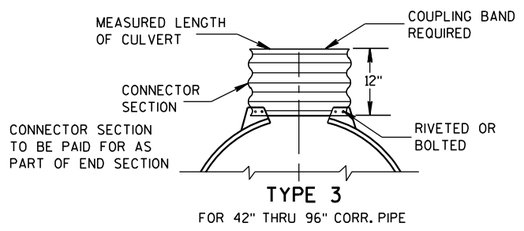
END SECTION CONNECTOR STRAP



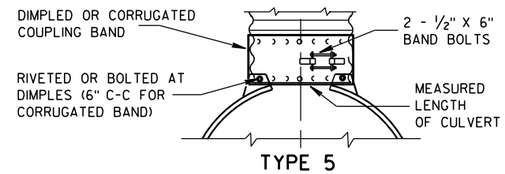
TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

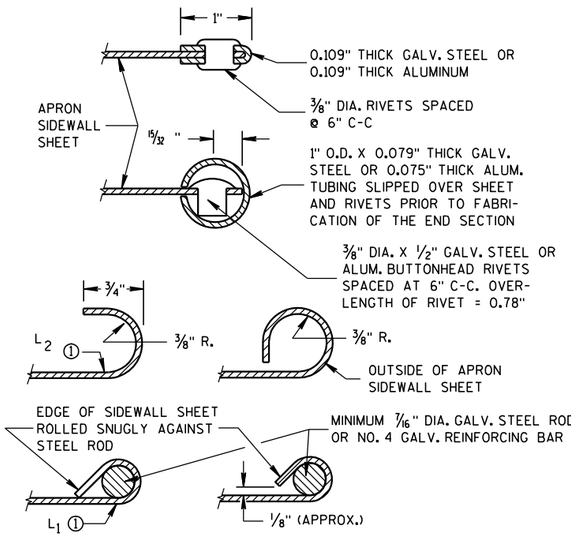
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

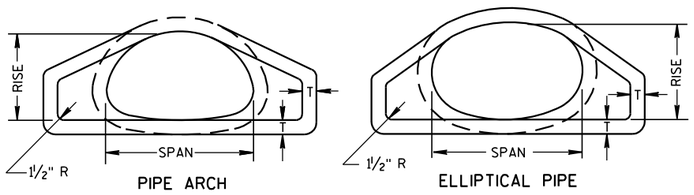
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

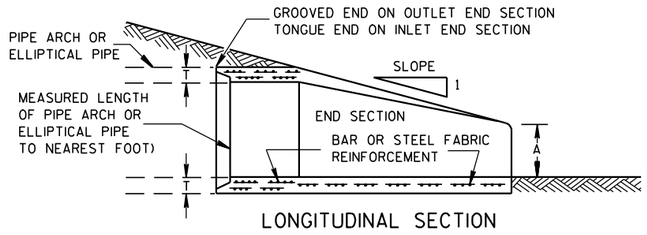
APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

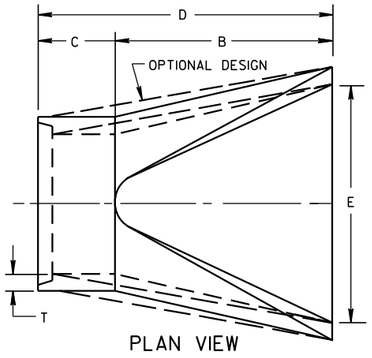
S.D.D. 8 F 1-11



END VIEW

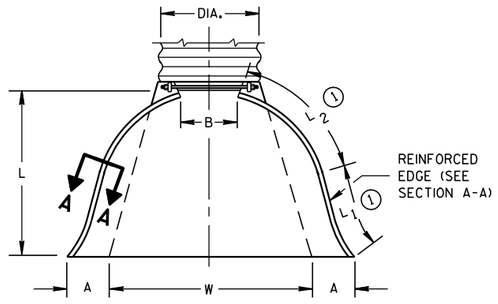


LONGITUDINAL SECTION

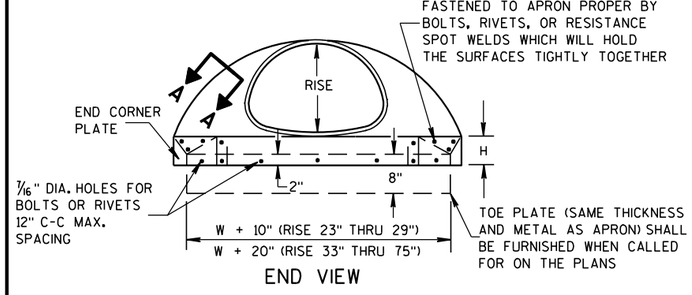


PLAN VIEW

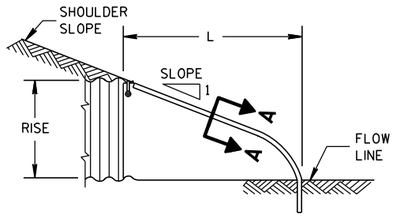
CONCRETE ENDWALLS



PLAN VIEW

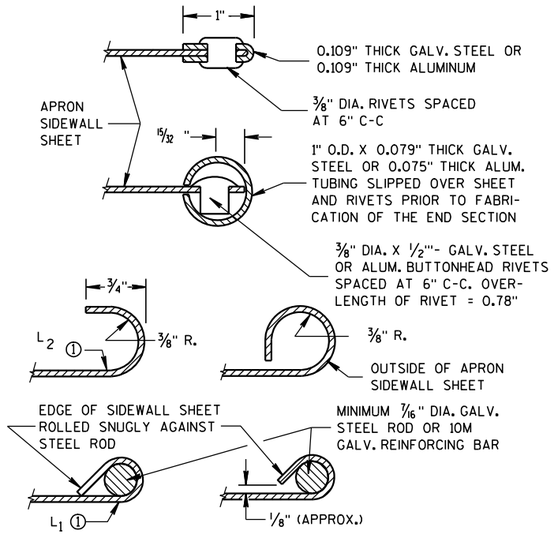


END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

2- 2/3" X 1/2" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19⅜	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37⅝	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45⅜	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL SEE GENERAL NOTES

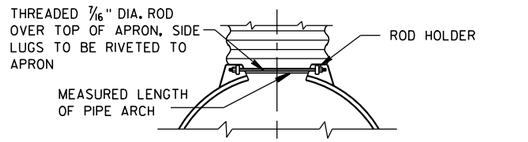
REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	29	18	3	8½	39	33	72	48	3 to 1
30	36	22	3½	9½	50	46	96	60	3 to 1
36	44	27	4	11⅛	60	36	96	72	3 to 1
42	51	31	4½	15 13/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5½	25½	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28½	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE

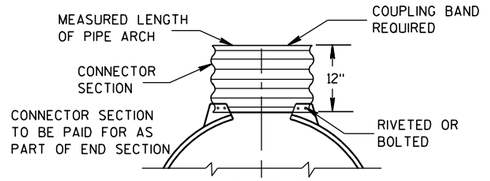
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE



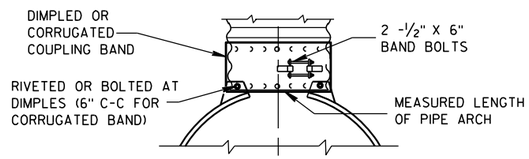
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:

ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

GENERAL NOTES

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

CONCRETE APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/94 — DATE

/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER

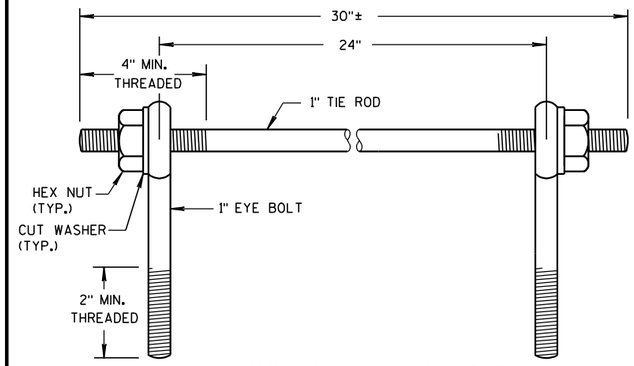
FHWA

6

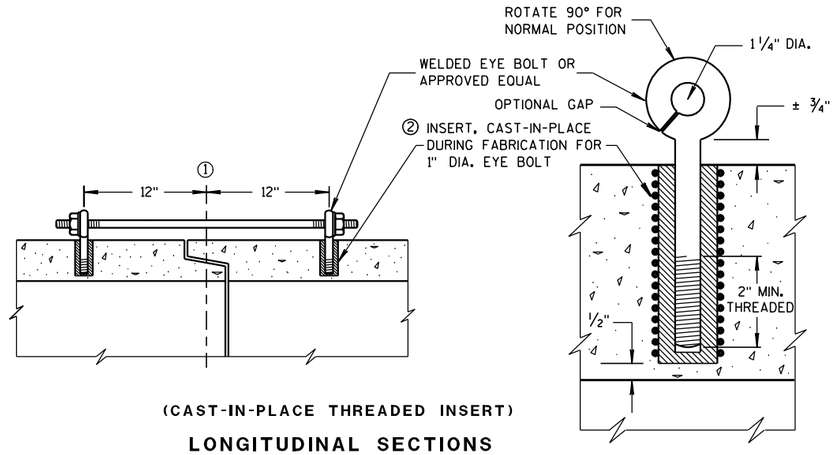
S.D.D. 8 F 2-1

6

S.D.D. 8 F 2-1



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.

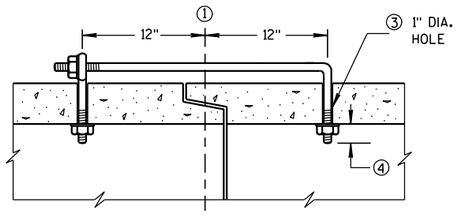
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

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

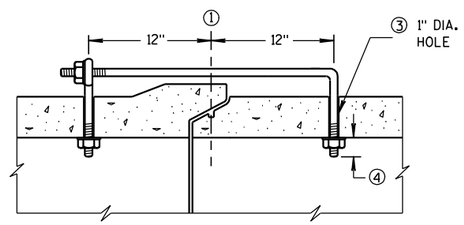
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

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)

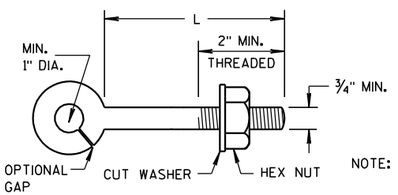


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

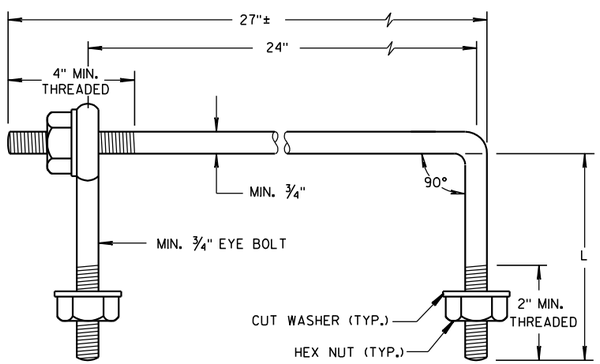
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



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

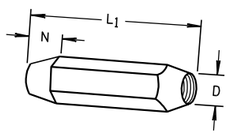
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

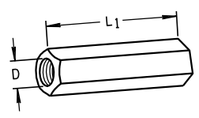
ADJUSTABLE TIE ROD TABLE

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



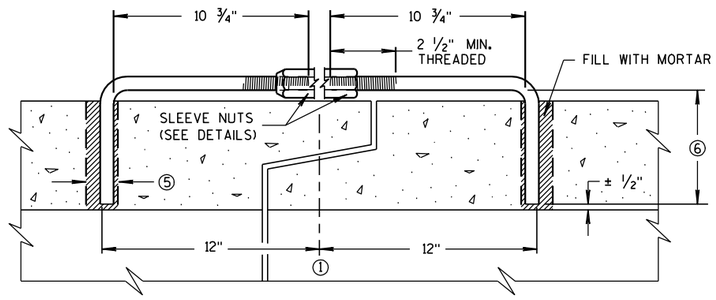
TAPERED



PLAIN

RIGHT AND LEFT THREADS

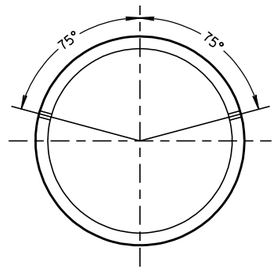
SLEEVE NUTS



LONGITUDINAL SECTION

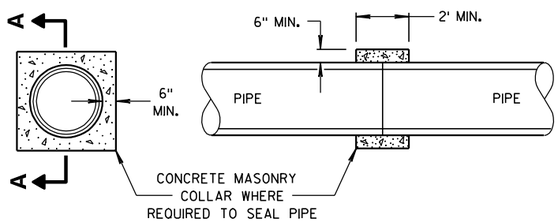
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

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

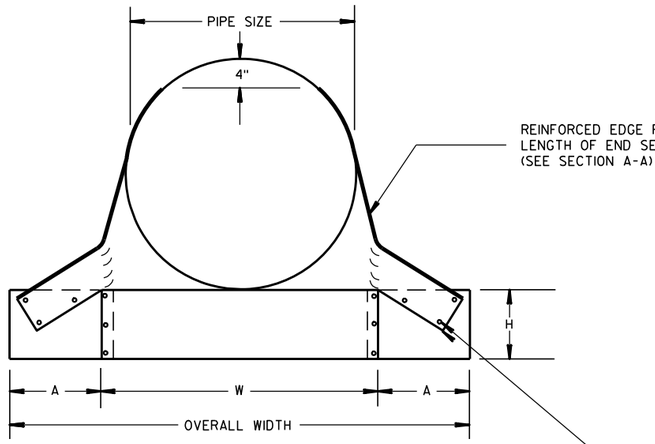
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
175
FHWA

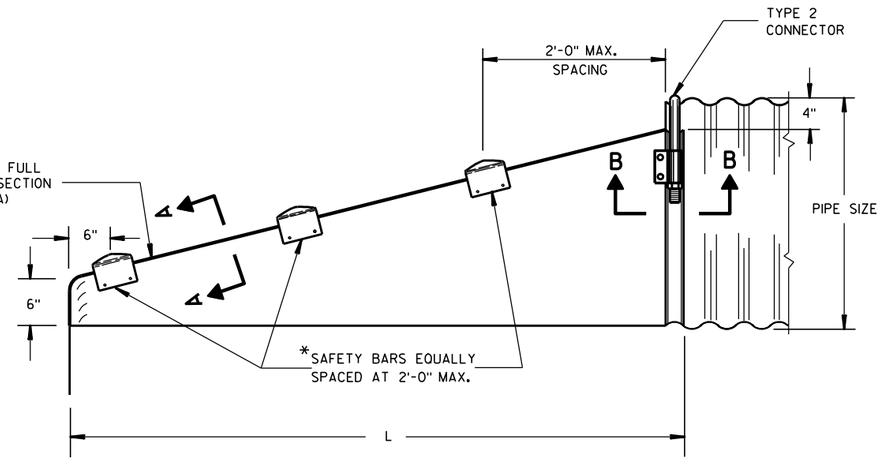
6

S.D.D. 8 F 4-7



FRONT VIEW

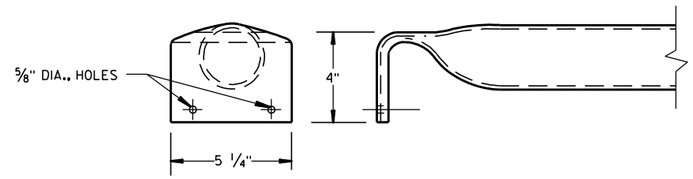
BOLTS, RIVETS, OR RESISTANCE SPOT WELDS WHICH WILL HOLD THE SURFACES TIGHTLY TOGETHER



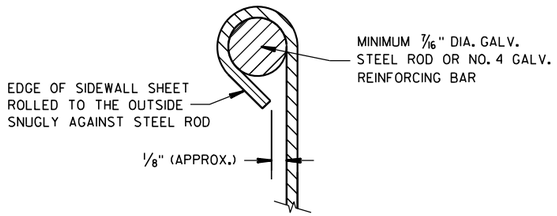
SIDE VIEW

*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.

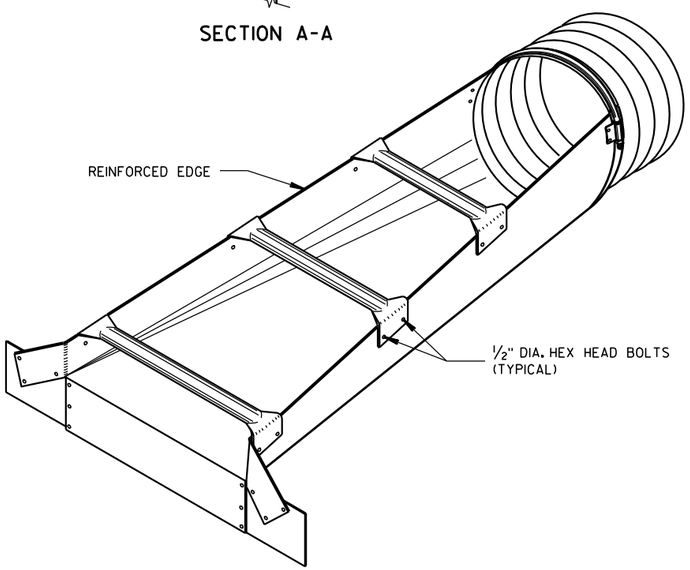
3" GALVANIZED PIPE. FLATTEN ENDS, THEN BEND OUTSIDE 4" TO MATCH END SECTION SIDES.



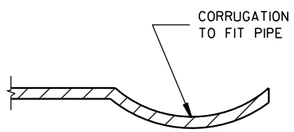
DETAIL OF SAFETY BAR



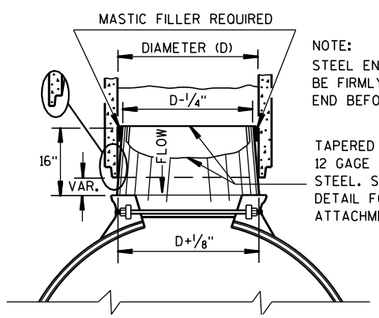
SECTION A-A



ISOMETRIC VIEW



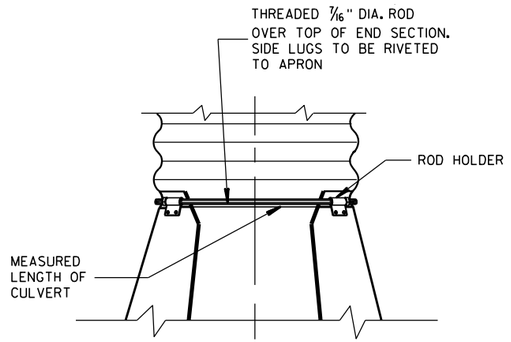
SECTION B-B



NOTE:
STEEL END SECTION SHALL BE FIRMLY WEDGED INTO PIPE END BEFORE BACKFILLING

TAPERED SLEEVE TO BE 12 GAGE SMOOTH GALVANIZED STEEL. SEE SECTION B-B DETAIL FOR END SECTION ATTACHMENT.

STEEL ADAPTER SLEEVE FOR CONCRETE PIPE



TYPE 2
CONNECTION 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.

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

PIPE DIA. (IN.)	MIN. THICK. (Inches)	DIMENSIONS (Inches)				L DIMENSIONS	
		A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES
15	.064	8	6	21	37	6:1	30
18	.064	8	6	24	40	6:1	48
21	.064	8	6	27	43	6:1	66
24	.064	8	6	30	46	6:1	84
30	.109	12	9	36	60	6:1	120
36	.109	12	9	42	66	6:1	156
42	.109	16	12	48	80	5.63 TO 1	180
48	.109	16	12	54	86	4.74 TO 1	180
54	.109	16	12	60	92	——	——

STEEL APRON ENDWALLS FOR PIPE ARCH

EQUIV. DIA. (Inches)	(Inches)		MIN. THICK. (Inches)	DIMENSIONS (Inches)				L DIMENSIONS	
	SPAN	RISE		A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES
15	17	13	.064	8	6	23	39	6:1	18
18	21	15	.064	8	6	27	43	6:1	30
21	24	18	.064	8	6	30	46	6:1	48
24	28	20	.064	8	6	34	50	6:1	60
30	35	24	.079	12	9	41	65	6:1	84
36	42	29	.109	12	9	48	72	6:1	114
42	49	33	.109	16	12	55	87	6:1	138
48	57	38	.109	16	12	63	95	6:1	168
54	64	43	.109	16	12	70	102	5.45 TO 1	180

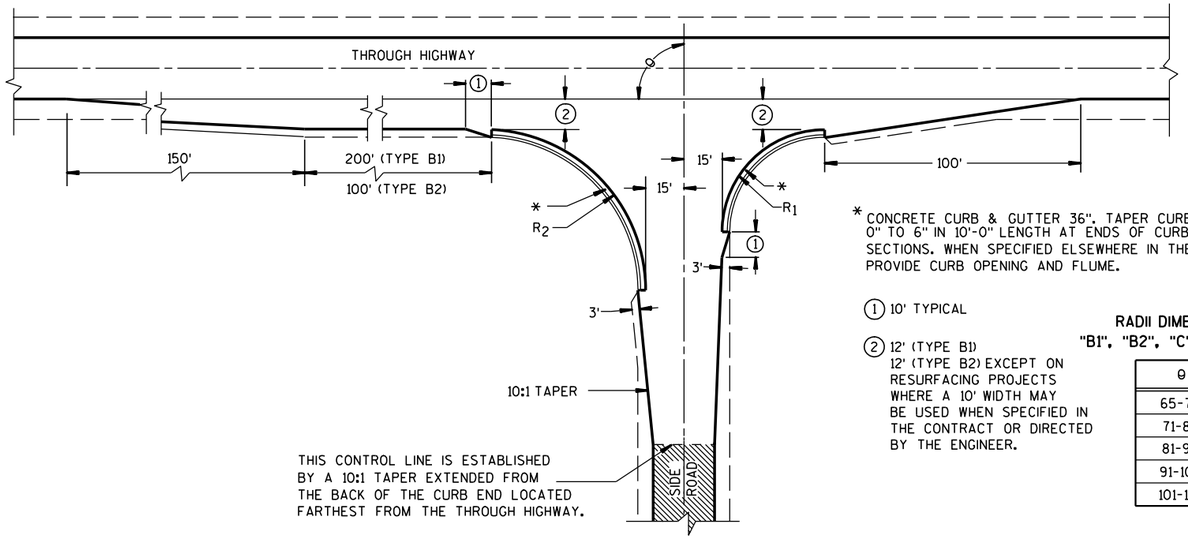
STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SIDE DRAINS SLOPED SECTION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/17/95 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 F 7-3



TYPE "B1" AND "B2"

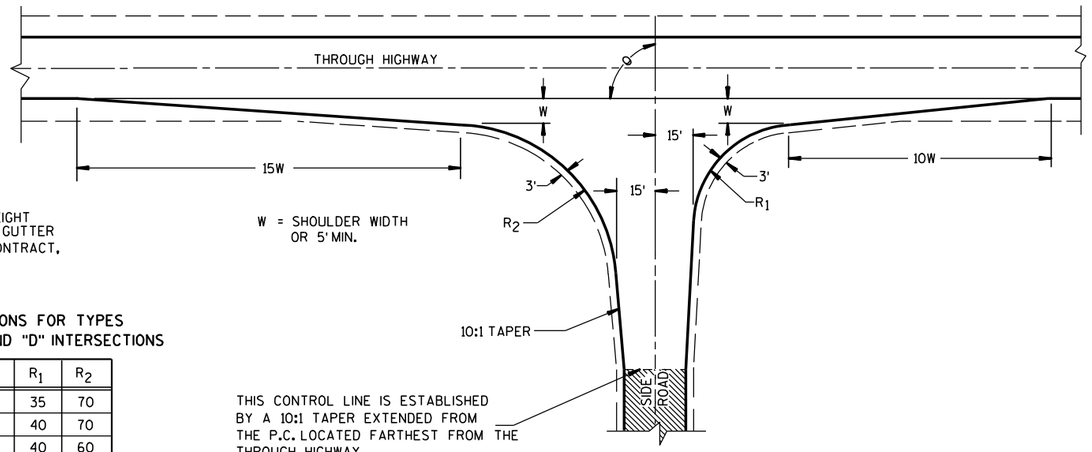
* CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

① 10' TYPICAL

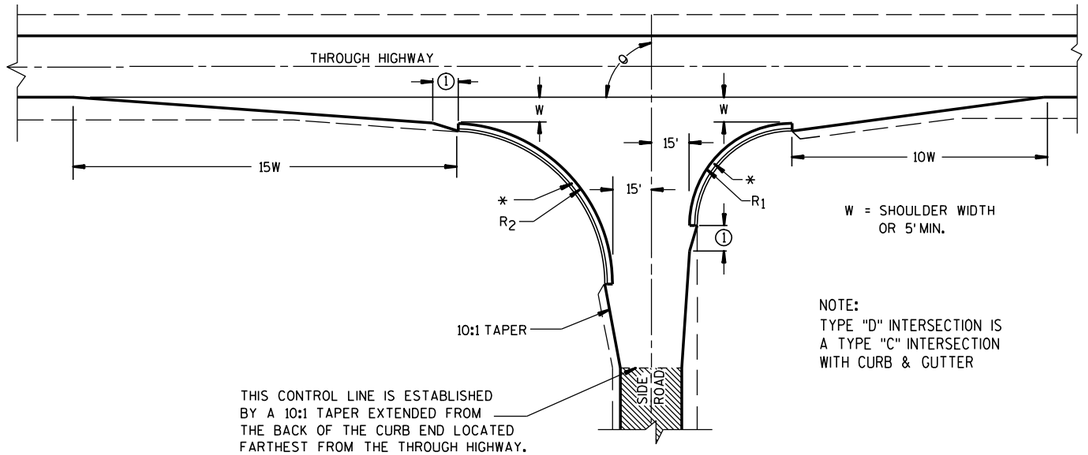
② 12' (TYPE B1)
12' (TYPE B2) EXCEPT ON RESURFACING PROJECTS WHERE A 10' WIDTH MAY BE USED WHEN SPECIFIED IN THE CONTRACT OR DIRECTED BY THE ENGINEER.

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"

NOTE:
TYPE "D" INTERSECTION IS A TYPE "C" INTERSECTION WITH CURB & GUTTER

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.

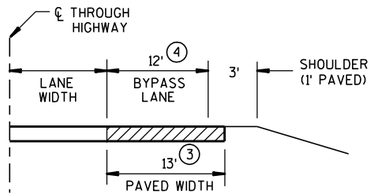
SIDE ROAD SURFACING NOTE

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.

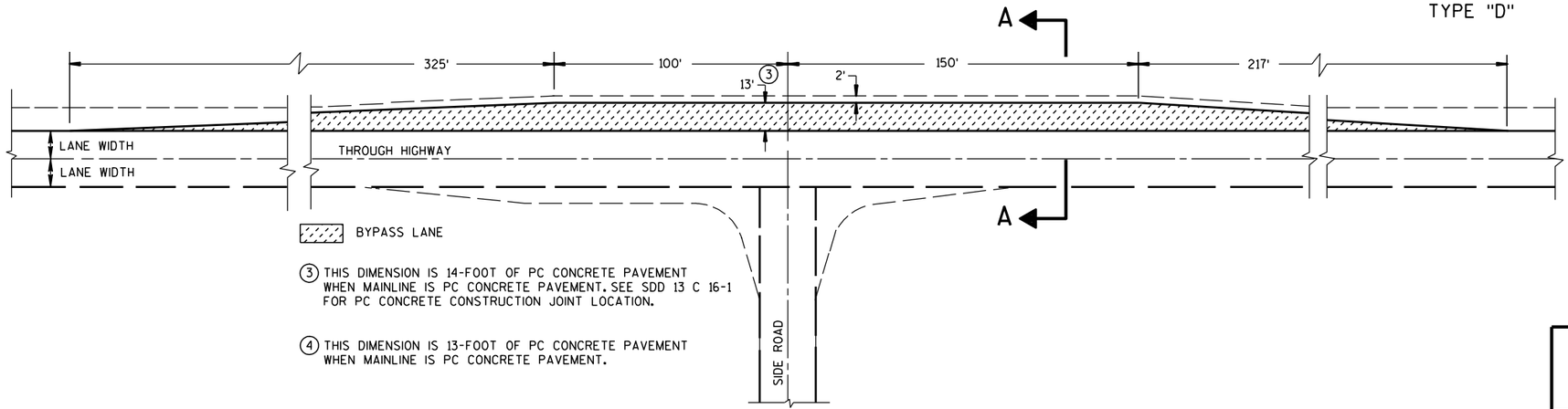
WHEN THE SIDE ROAD IS PRESENTLY PAVED, NEW PAVEMENT SHALL BE PLACED TO THE LIMITS OF DESIGN AS SHOWN AND BEYOND, IF NECESSARY, TO MEET EXISTING PAVEMENT.

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

EXISTING SURFACE



SECTION A-A
(SHOWING BYPASS LANE AND SHOULDER)



③ THIS DIMENSION IS 14-FOOT OF PC CONCRETE PAVEMENT WHEN MAINLINE IS PC CONCRETE PAVEMENT. SEE SDD 13 C 16-1 FOR PC CONCRETE CONSTRUCTION JOINT LOCATION.

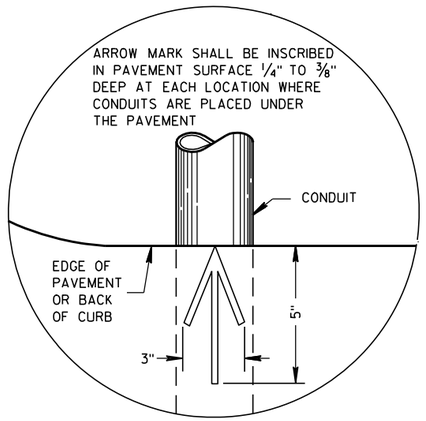
④ THIS DIMENSION IS 13-FOOT OF PC CONCRETE PAVEMENT WHEN MAINLINE IS PC CONCRETE PAVEMENT.

TEE INTERSECTION BYPASS LANE DETAIL

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

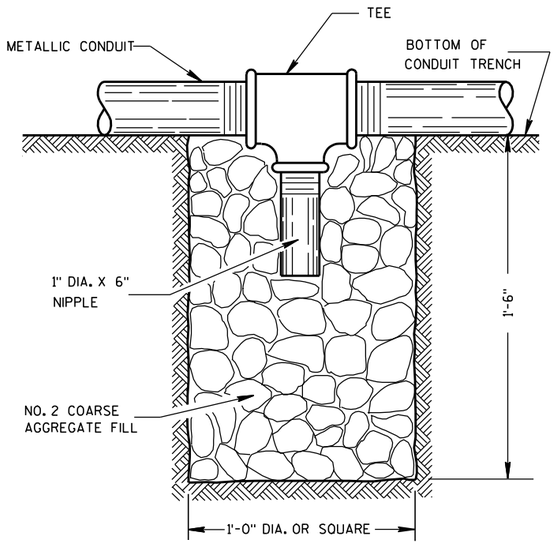
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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S.D.D. 9 A 1-12a



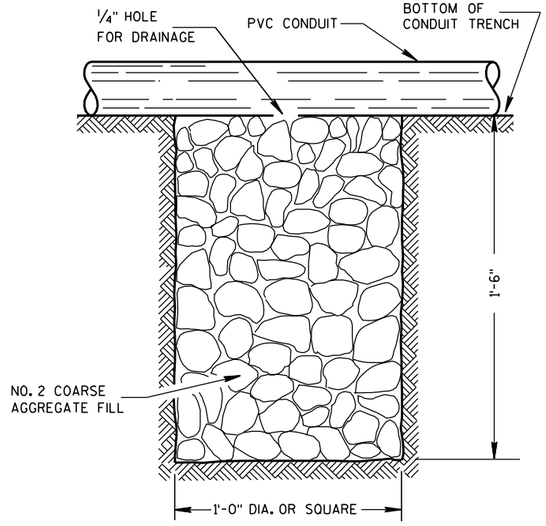
PLAN VIEW

ARROW MARK



NOTE: INSTALL AT LOCATIONS WHERE METALLIC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR METALLIC CONDUIT



NOTE: INSTALL AT LOCATIONS WHERE PVC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR PVC CONDUIT

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

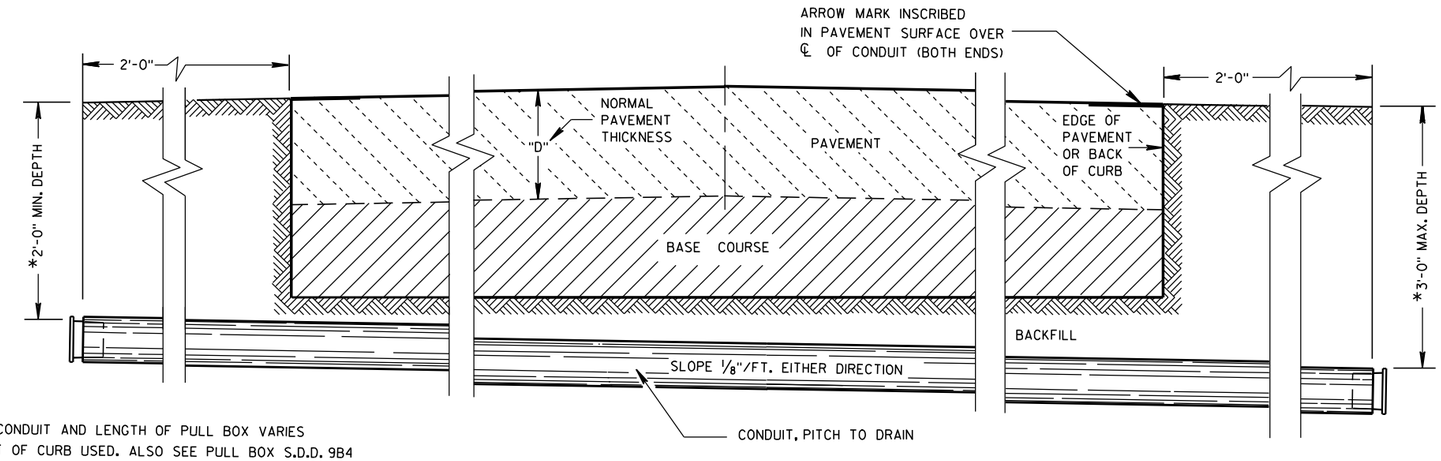
PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

POLY ROPE OR A PULL WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/23/03 DATE

/S/ Balu Ananthanarayanan
STATE ELECTRICAL ENGI

FHWA

HWYS

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S.D.D. 9 B 2-7

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S.D.D. 9 B 2-7

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2	26 1/2	26 1/2	26 1/2
FRAME	F	8 1/2	8 1/2	8 1/2	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2
FRAME	G	11 1/2	11 1/2	11 1/2	17 1/2	17 1/2	17 1/2	23 1/2	23 1/2	23 1/2
WEIGHT IN POUNDS *										
FRAME AND COVER		60	60	60	110	110	110	155	155	155

* THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE. THE MECHANICAL CONNECTION (INSIDE AND OUTSIDE) TO THE PULL BOX, SHALL BE TOTALLY AND PERMANENTLY SEALED WITH A SILICONE OR RUBBERIZED CAULKING COMPOUND AS APPROVED BY THE ENGINEER.

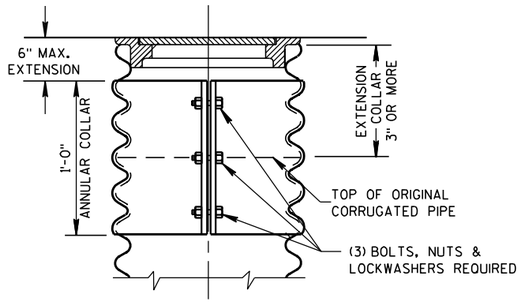
GROUNDING LUGS ARE NOT REQUIRED IN PULL BOXES WHEN VOLTAGES OF LESS THAN 50 VOLTS AC ARE THE ONLY VOLTAGES ENCOUNTERED IN THE BOXES.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

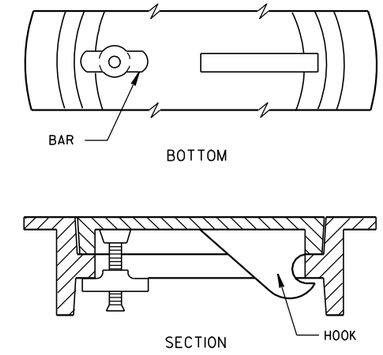
S.D.D. 9B2, "CONDUIT", APPLIES TO THIS DRAWING.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.

IF PULL BOX EQUIPMENT GROUNDING IS REQUIRED USING AN EQUIPMENT GROUNDING ELECTRODE IN EACH PULL BOX, THE EQUIPMENT GROUNDING ELECTRODE SHALL BE 5/8" X 8'-0", COPPERCLAD AND BE EXOTHERMICALLY WELDED TO A #4 AWG, COPPER, STRANDED WIRE (BARE OR GREEN INSULATED). THE #4 AWG WIRE SHALL BE 4 FEET IN LENGTH, NEATLY COILED, TAPED AND AVAILABLE FOR USE WHEN REQUIRED.

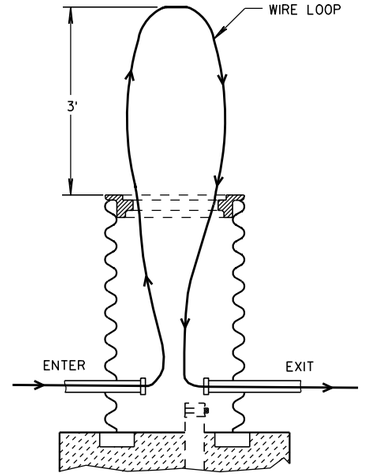


CORRUGATED PIPE EXTENDER

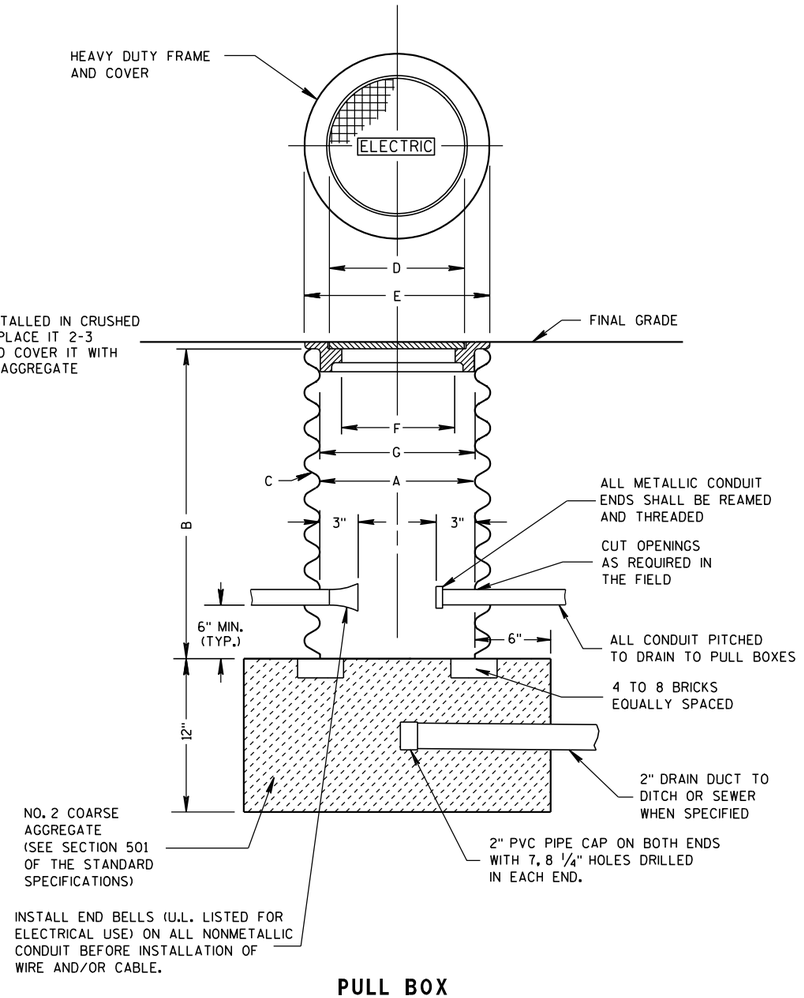


ALTERNATE COVER (LOCKING)

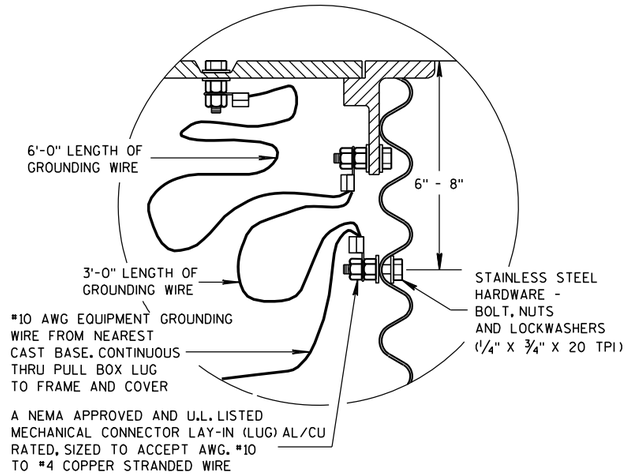
TIGHTENING BAR TYPE



MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX



PULL BOX



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

PULL BOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

9/27/06 DATE

/S/ Balu Ananthanarayanan
STATE ELECTRICAL ENGI

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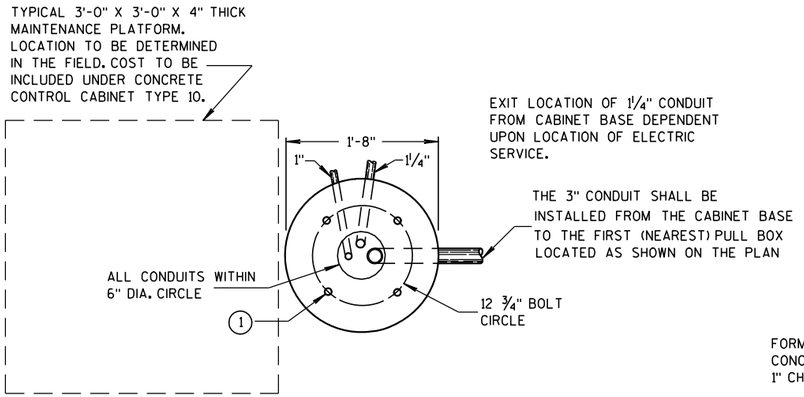
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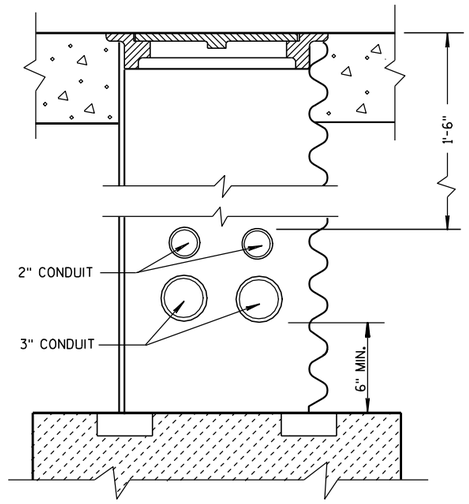
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S.D.D. 9 B 4-9

CONTROL CABINET BASE TYPE	DIMENSIONS				C.Y. CONCRETE (APPROX.)
	H	I	J	K	
TYPE 6 - 30" CABINET	34"	60"	10"	17"	.64
TYPE 7 - 38" CABINET	42"	60"	10"	21"	.93
TYPE 8 - 38" CABINET	42"	72"	12"	21"	1.29
TYPE 9 - VARIABLE	54"	72"	14"	27"	1.56
TYPE 10 - POST MOUNT	AS SHOWN				.65 *

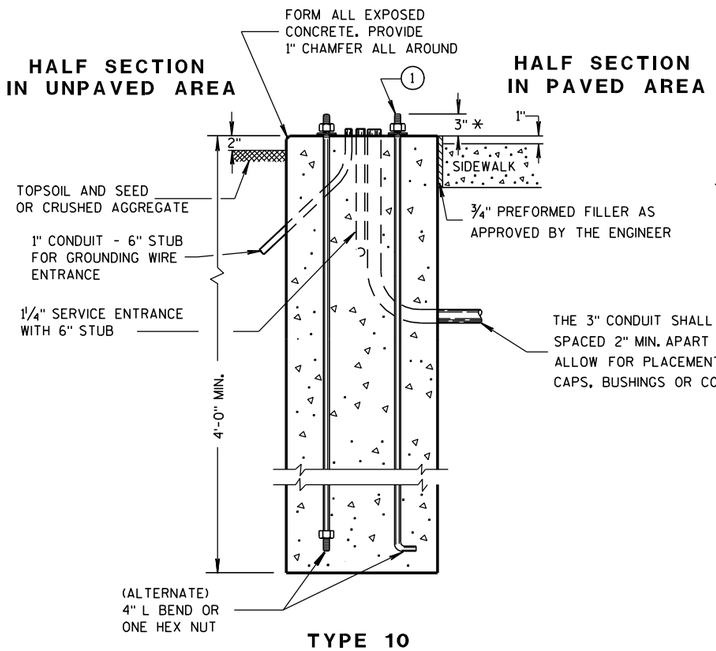
* INCLUDES MAINTENANCE PLATFORM.



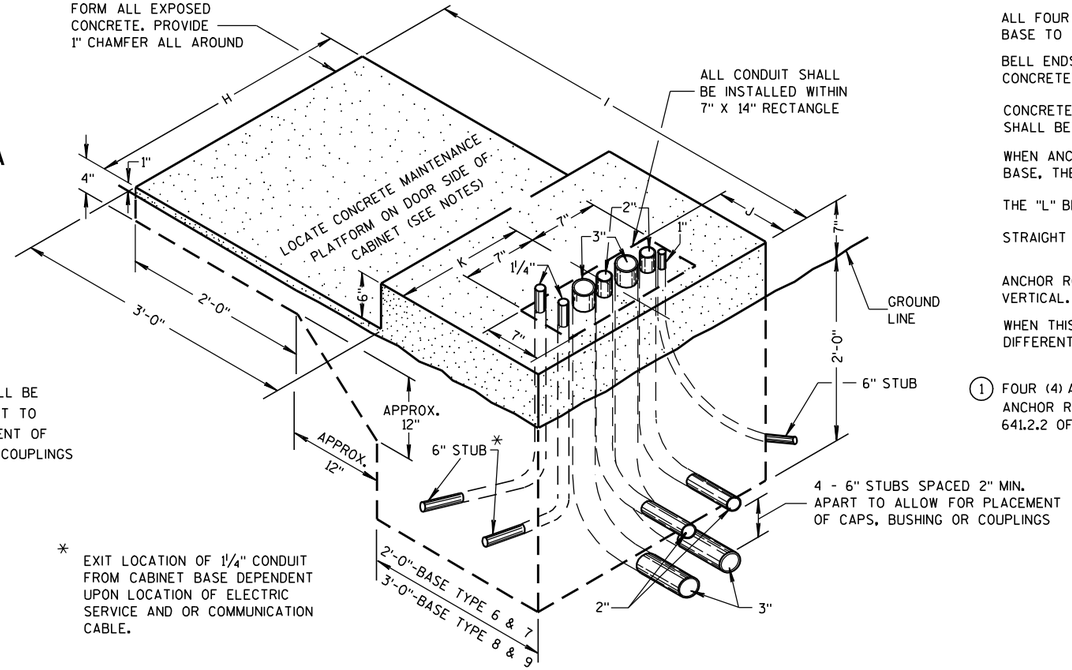


CONDUIT LOCATIONS IN 24" X 36" PULL BOX

(LEADING TO CONTROLLER CABINET BASE TYPE 6, 7, 8 AND 9)



TYPE 10



TYPE 6,7,8 AND 9
(ISOMETRIC VIEW)

* EXIT LOCATION OF 1¼" CONDUIT FROM CABINET BASE DEPENDENT UPON LOCATION OF ELECTRIC SERVICE AND OR COMMUNICATION CABLE.

* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 3¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

INSTALL FOUR ½ INCH MINIMUM DIAMETER X 4 INCH MINIMUM LENGTH APPROVED CONCRETE MASONRY ANCHORS TO ANCHOR THE CABINET TO TYPE 6, 7, 8, AND 9 BASES. THE ANCHOR STUDS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

WHEN A TYPE 10 CONTROL CABINET BASE IS USED TO POST MOUNT A CONTROL CABINET, A 36" SQUARE 4" THICK CONCRETE MAINTENANCE PLATFORM SHALL BE REQUIRED ON THE DOOR SIDE OF THE CABINET. THE TOP 1 INCH SHALL BE ABOVE FINISHED GRADE AND BE BROOM FINISHED AND LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

ALL FOUR (TWO INCH AND THREE INCH) CONDUIT SHALL BE INSTALLED FROM THE CABINET BASE TO THE FIRST (NEAREST PULL BOX LOCATED AS SHOWN ON THE PLANS.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

WHEN ANCHOR RODS USING THE ALTERNATE L BEND ARE FURNISHED FOR THE TYPE 10 BASE, THE 4" L BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH.

THE "L" BEND SHALL NOT BE THREADED.

STRAIGHT ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WHEN THIS DRAWING IS USED FOR STREET LIGHTING CABINET BASES, CONDUIT MAY BE DIFFERENT AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER.

(1) FOUR (4) ANCHOR RODS, 1" DIA. X 3'-6"
ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 AND 641.2.2 OF THE STANDARD SPECIFICATIONS.

CONCRETE CONTROL CABINET BASES

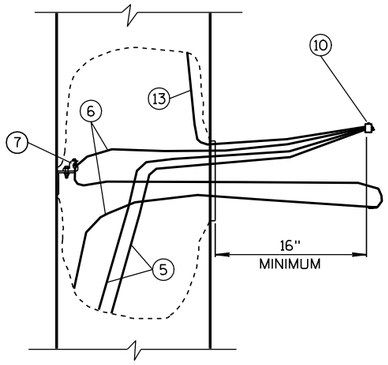
CONCRETE CONTROL CABINET BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

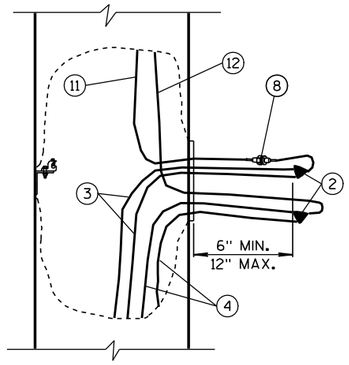
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3/3/10 DATE
/S/ Joanna L. [illegible]
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S.D.D. 9 C 5-7

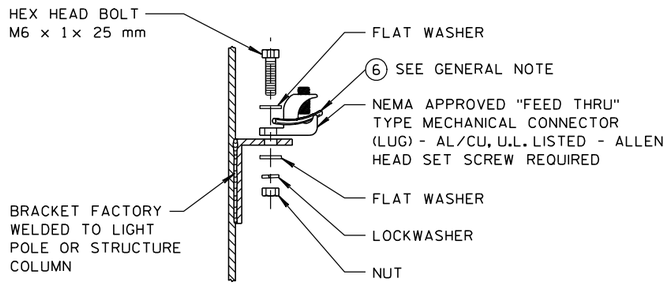


EQUIPMENT GROUNDING CONDUCTOR SLACK



UNGROUNDED CONDUCTOR SLACK (AND GROUNDED NEUTRAL SLACK IN GROUNDED NEUTRAL SYSTEM)

TYPICAL CONDUCTOR SLACK AT HANDHOLES



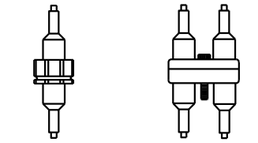
HANDHOLE GROUNDING LUG

(NUT, BOLT, WASHERS, AND LOCK WASHERS SHALL BE STAINLESS STEEL)

CONDUCTOR COLOR CODES

KEY	CONDUCTOR	COLOR
3	UNGROUNDED LINE WIRE	*
4	GROUNDED LINE WIRE	WHITE
5	SYSTEM GROUNDING LINE WIRE	GREEN
6	GROUNDING ELECTRODE CONDUCTOR	BARE
11	UNGROUNDED POLE WIRE	*
12	GROUNDED POLE WIRE	WHITE
13	EQUIPMENT GROUNDING POLE WIRE	GREEN

* FOLLOW COLOR CODING SHOWN IN THE PLANS. WHERE THE PLANS DO NOT SHOW COLOR CODING, USE BLACK FOR SINGLE LUMINAIRE POLES; BLACK AND RED FOR TWIN LUMINAIRE POLES.



FUSE ASSEMBLIES

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN IN THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

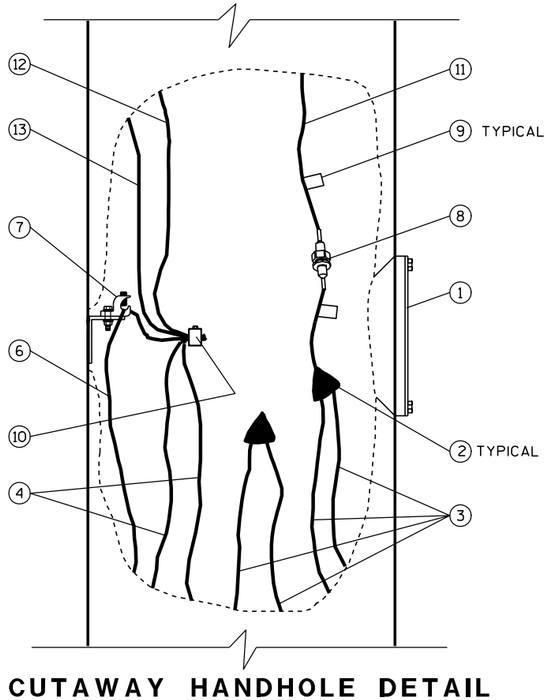
USE THIS DETAIL IN CONJUNCTION WITH THE ELECTRICAL DETAILS FOR THE APPLICATION, WHICH MAY BE A LIGHT POLE, SIGN BRIDGE, ETC.

THE GROUNDING ELECTRODE CONDUCTOR SHALL BE CONTINUOUS WITHOUT SPLICES FROM THE GROUNDING ELECTRODE THROUGH THE HANDHOLE GROUNDING LUG TO THE CONNECTOR.

THREE POLE WIRES ARE SHOWN FOR A SINGLE LUMINAIRE LIGHT POLE. THREE ADDITIONAL POLE WIRES REQUIRED FOR TWIN LUMINAIRE LIGHT POLES ARE OMITTED FROM THE DRAWING FOR CLARITY. IN THE TWIN POLE CASE, BUNDLE EACH SET OF THREE WIRES WITH A NYLON CABLE TIE.

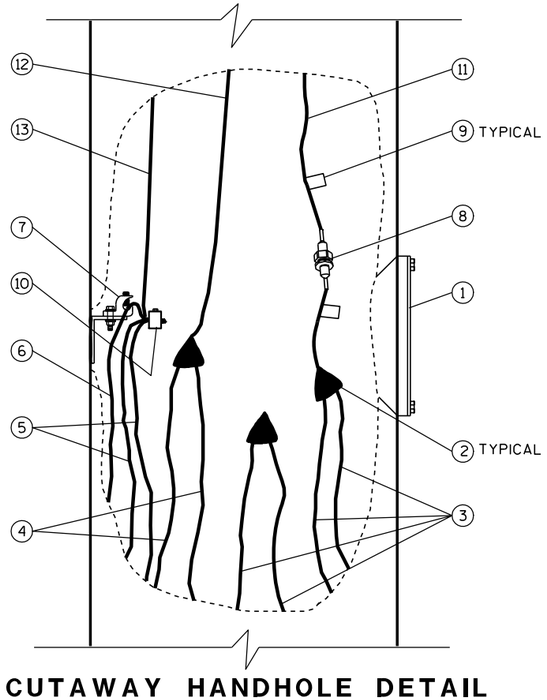
IN 3-PHASE SYSTEMS, THERE WILL BE ONE MORE UNGROUNDED LINE WIRE, WHICH IS OMITTED FROM THE DRAWING FOR CLARITY.

CIRCUIT TAGS SHALL BE INSTALLED ONLY WHERE REQUIRED IN THE SPECIAL PROVISIONS.



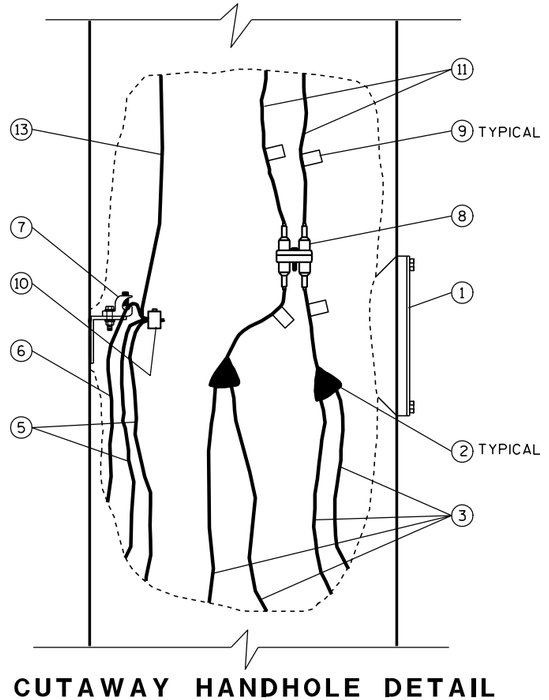
CUTAWAY HANDHOLE DETAIL

GROUNDED NEUTRAL SYSTEMS
1-φ



CUTAWAY HANDHOLE DETAIL

ISOLATED NEUTRAL SYSTEMS
1-φ SHOWN; 3-φ WYE SIMILAR
(SEE GENERAL NOTE)



CUTAWAY HANDHOLE DETAIL

PHASE-TO-PHASE SYSTEMS
1-φ SHOWN; 3-φ DELTA SIMILAR
(SEE GENERAL NOTE)

NOTE: REQUIRED CONDUCTOR SLACK NOT SHOWN ON "CUTAWAY HAND HOLE" DETAILS FOR DRAWING CLARITY, SEE "TYPICAL CONDUCTOR SLACK AT HANDHOLES" ON THIS SHEET.

(1) HANDHOLE AND COVER
(2) INSULATED SPLICE
(3) UNGROUNDED LINE WIRE
(4) GROUNDED LINE WIRE
(5) SYSTEM GROUNDING LINE WIRE
(6) GROUNDING ELECTRODE CONDUCTOR
(7) HANDHOLE GROUNDING LUG
(8) FUSE ASSEMBLY, 1P OR 2P AS REQUIRED
(9) CIRCUIT TAG (SEE GENERAL NOTE)
(10) REVERSIBLE PRESSURE OR COMPRESSION GROUNDING CONNECTOR (NOT INSULATED)
(11) UNGROUNDED POLE WIRE
(12) GROUNDED POLE WIRE
(13) EQUIPMENT GROUNDING POLE WIRE

ELECTRICAL HANDHOLE WIRING

STATE OF WISCONSIN
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10/25/2010 DATE
/S/ John Corbin STATE ELECTRICAL ENGI
FHWA

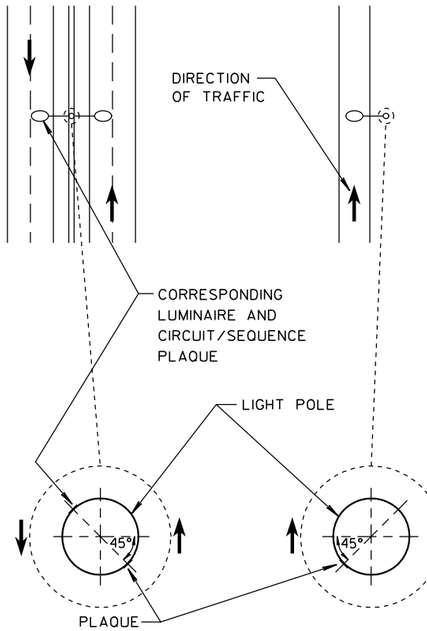
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S.D.D. 10 A 1-2

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S.D.D. 10 A 1-2



MEDIAN POLE **SINGLE ARM POLE**

LOCATION OF LIGHT POLE CIRCUIT/SEQUENCE PLAQUE

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN IN THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PLAQUES SHALL BE INCIDENTAL TO ALL NEW INSTALLATIONS.

WHERE SHOWN IN THE PLANS, REPLACEMENT PLAQUES WILL BE MEASURED AND PAID SEPARATELY.

FASTEN TOP, CENTER AND BOTTOM OF PLAQUE TO POLE OR OTHER LOCATION AS FOLLOWS:

GALVANIZED STEEL SHAFT - STAINLESS STEEL POP RIVETS

A588 STEEL SHAFT - SHIM FOR DRAINAGE WITH STAINLESS WASHERS; FASTEN WITH STAINLESS SELF-TAPPING SCREWS

ALUMINUM SHAFTS - ALUMINUM POP RIVETS

MOUNTING HEIGHT SHALL BE APPROXIMATELY 5.0' ABOVE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL OBSTRUCT.

PLAQUE MATERIALS:

BASE - SHEET ALUMINUM, 0.060" THICK.

FACE - WHITE, SELF-ADHESIVE VINYL SHEETING, NON-RETRORFLECTIVE

LINES - BLACK, 1/2" WIDE, SELF-ADHESIVE

CHARACTERS - BLACK, SELF-ADHESIVE, SERIES "D", SIZE AS SHOWN

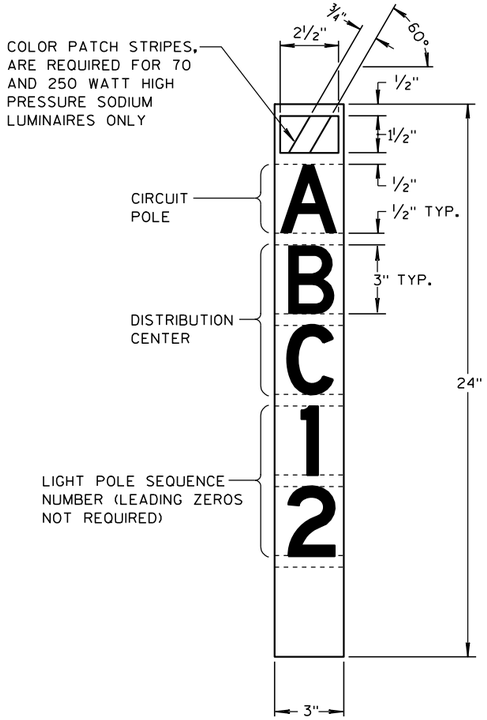
COLOR PATCHES - VARIOUS COLORS, SELF-ADHESIVE VINYL SHEETING

WITH THE APPROVAL OF THE ENGINEER, THE BASE MATERIAL MAY BE OMITTED AND THE FACE ADHERED DIRECTLY TO THE SURFACE, IN CASES SUCH AS SMOOTH, CLEAN ALUMINUM POLES.

ALTERNATIVE COMPUTER-GENERATED SIGN LETTERING MAY BE ACCEPTED IF THE ENGINEER FINDS IT TO BE EQUIVALENT.

COLOR PATCH CODE FOR HPS LUMINAIRES

1000 WATT - NO PATCH
400 WATT - ORANGE
310 WATT - BLUE
250 WATT - ORANGE WITH WHITE STRIPE
200 WATT - RED
150 WATT - GREEN
100 WATT - BROWN
70 WATT - BROWN WITH WHITE STRIPE



LIGHT POLE CIRCUIT/SEQUENCE PLAQUE

IDENTIFICATION PLAQUES LIGHT POLES

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DEPARTMENT OF TRANSPORTATION

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S.D.D. 10 A 2-2

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S.D.D. 10 A 2-2

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN IN THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

USE THIS DETAIL IN CONJUNCTION WITH THE DETAIL FOR ELECTRICAL HANDHOLE WIRING.

THE GROUNDING ELECTRODE CONDUCTOR SHALL BE CONTINUOUS WITHOUT SPLICES FROM THE GROUNDING ELECTRODE THROUGH THE HANDHOLE GROUNDING LUG TO THE CONNECTOR.

WIRING FOR SINGLE LUMINAIRE POLES IS SHOWN WITH SOLID LINES. WIRING FOR THE SECOND LUMINAIRE OF TWIN LUMINAIRE POLES IS SHOWN WITH DOTTED LINES.

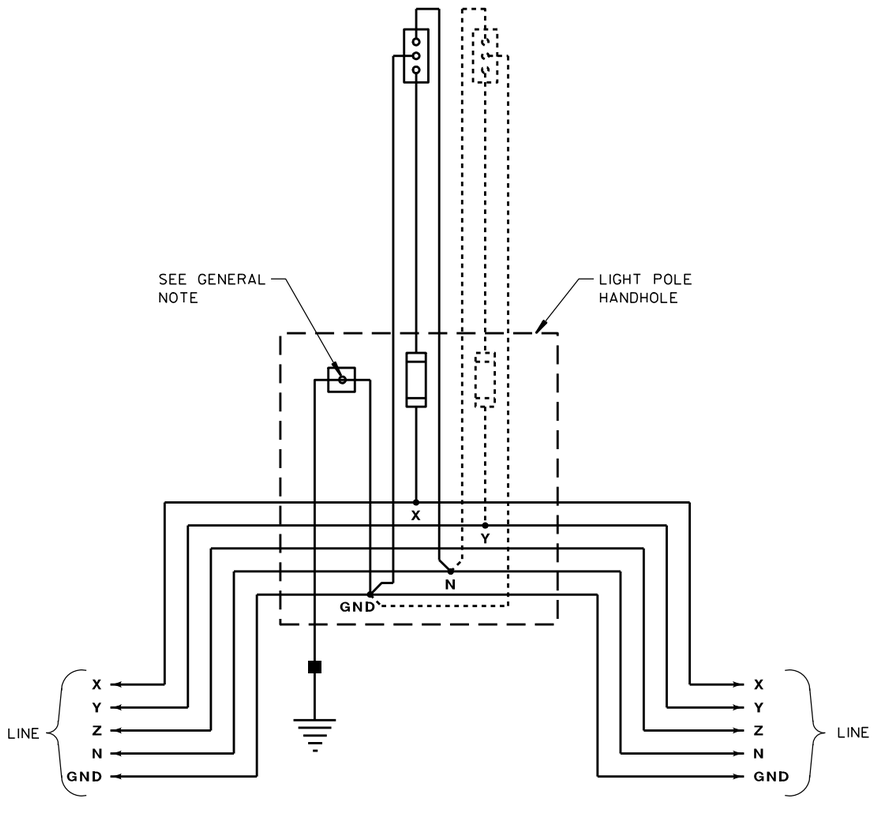
THE PLANS WILL SHOW WHICH CIRCUIT LEG(S) ARE CONNECTED TO EACH INSTALLATION.

HANDHOLE FUSE SCHEDULES

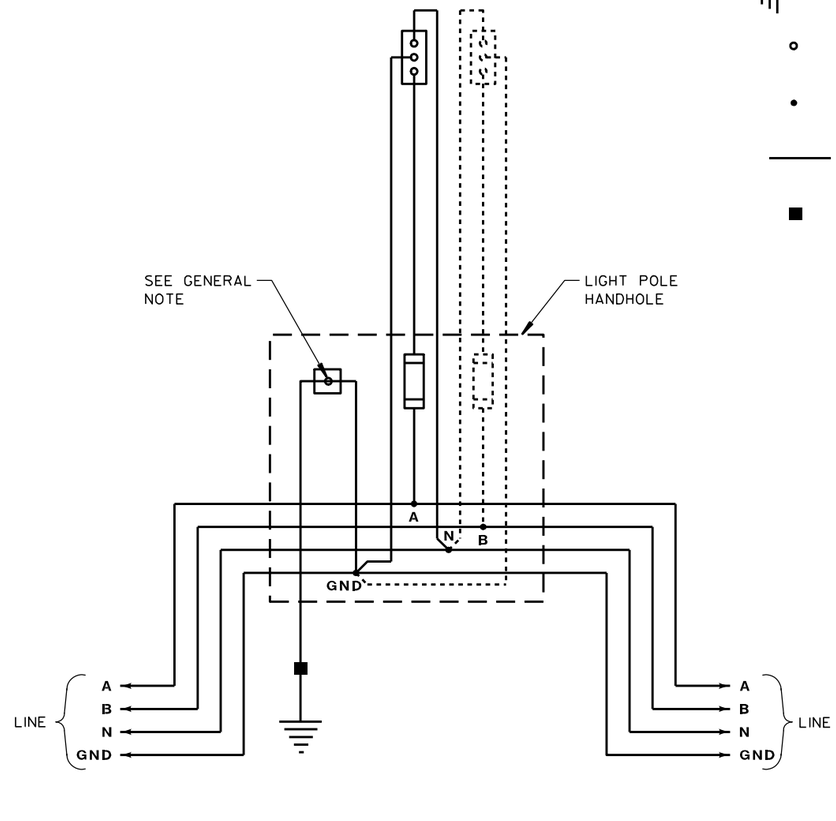
LINE VOLTAGE	BALLAST WATTAGE	
φ-GROUND	70-200 W	250-400 W
120 VAC	5 A	10 A
240 VAC	5 A	5 A
277 VAC	5 A	5 A
480 VAC	3 A	5 A

LEGEND

A,B,X,Y,Z	UNGROUNDED CIRCUIT CONDUCTORS
N	GROUNDED CIRCUIT CONDUCTORS
GND	EQUIPMENT GROUNDING CONDUCTOR
P	POLE (ELECTRICAL CIRCUIT)
φ	PHASE (ELECTRICAL CURRENT)
	HANDHOLE GROUND LUG
	SINGLE-POLE (1P) FUSE ASSEMBLY
	TWO-POLE (2P) FUSE ASSEMBLY
	UNFUSED LUMINAIRE
	EQUIPMENT GROUNDING ELECTRODE
	TERMINAL
	SPLICE
	CONDUCTOR
	EXOTHERMIC WELD



TYPICAL WIRING DIAGRAM
ISOLATED NEUTRAL SYSTEM
3-φ 208Y/120VAC OR 480Y/277VAC 4 WIRE



TYPICAL WIRING DIAGRAM
ISOLATED NEUTRAL SYSTEM
1-φ 120/240VAC OR 240/480VAC 3 WIRE

ELECTRICAL DETAILS
GROUND MOUNT LIGHT POLES
ISOLATED NEUTRAL SYSTEM

STATE OF WISCONSIN
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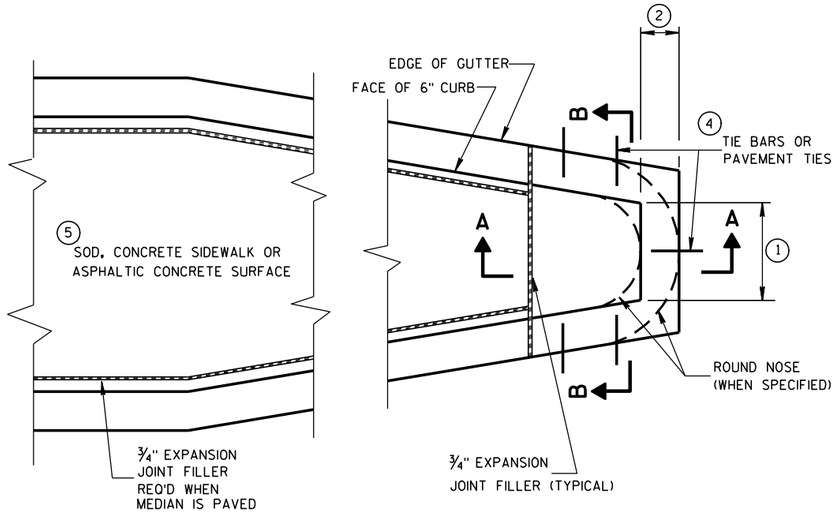
HWYS

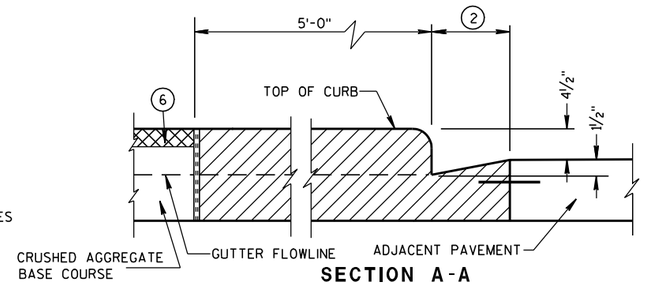
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S.D.D. 10 A 5-2

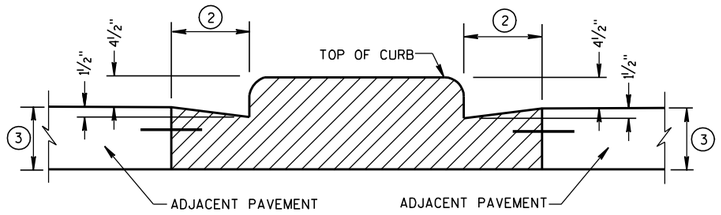
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S.D.D. 10 A 5-2





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.

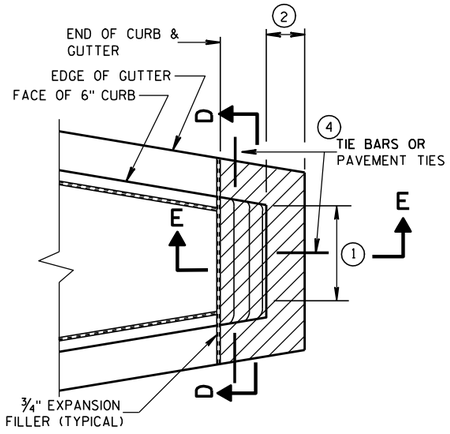
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

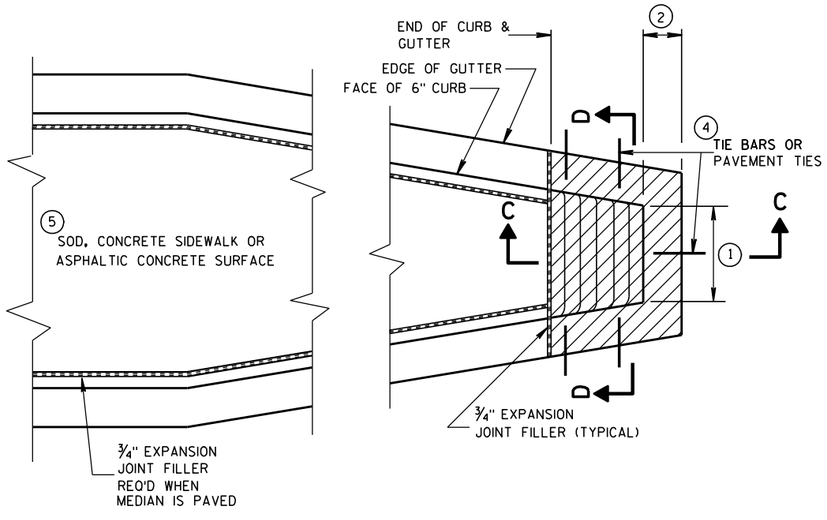
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

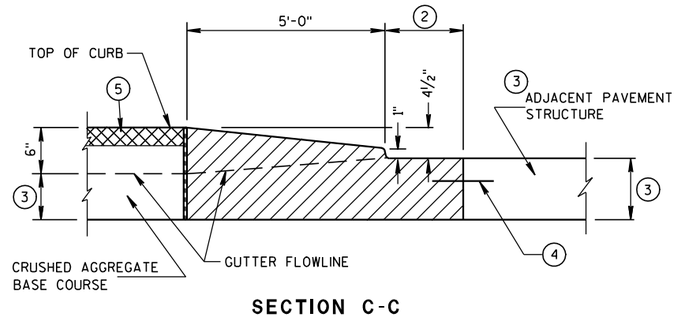
(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

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.

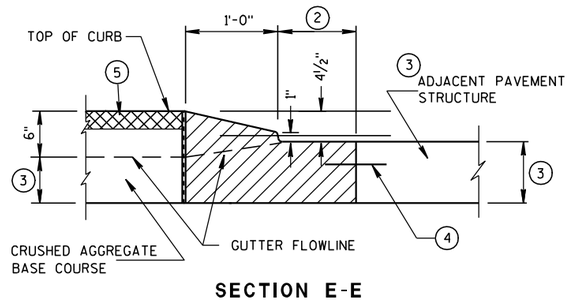
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.







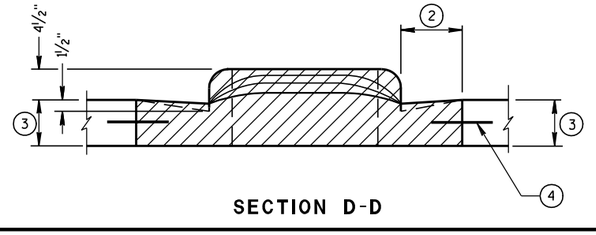
SECTION C-C



SECTION E-E

CONCRETE MEDIAN SLOPED NOSE TYPE 1

CONCRETE MEDIAN SLOPED NOSE TYPE 2



SECTION D-D

CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/8/2006
DATE

/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER

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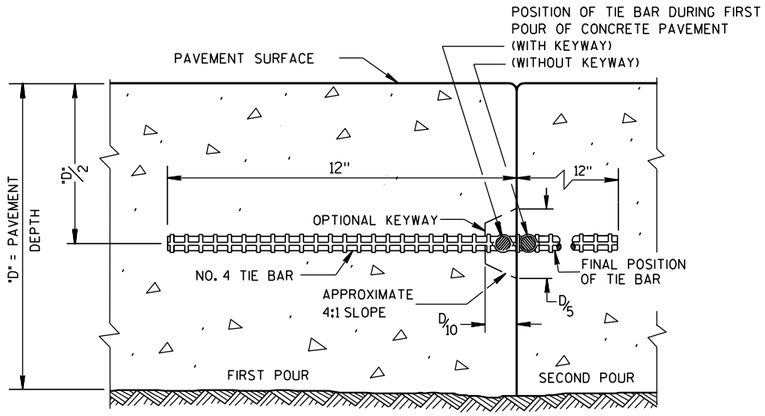
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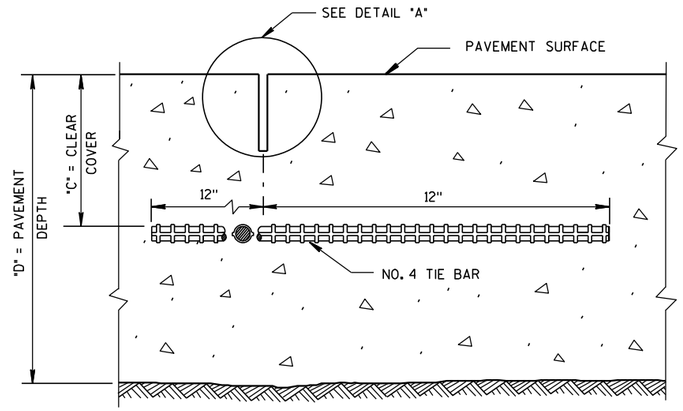
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CONSTRUCTION JOINT



SAWED JOINT

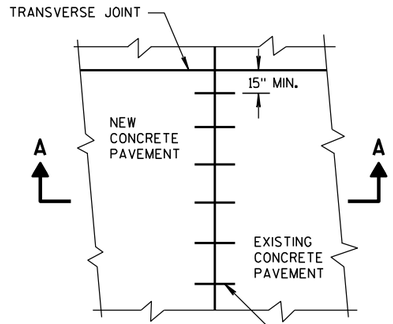
GENERAL NOTES

DO NOT SEAL OR FILL LONGITUDINAL JOINTS.

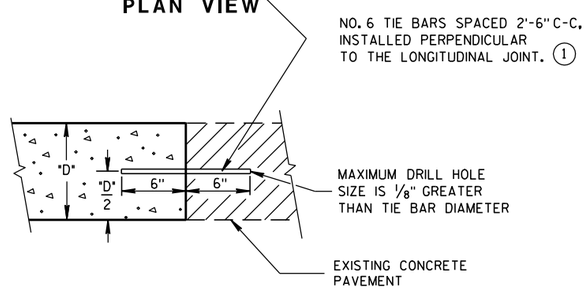
CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

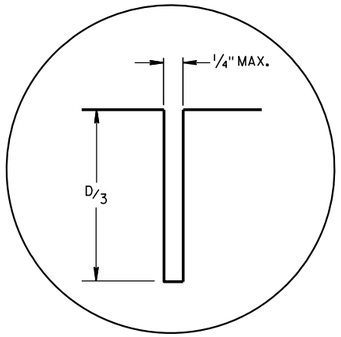
(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



PLAN VIEW

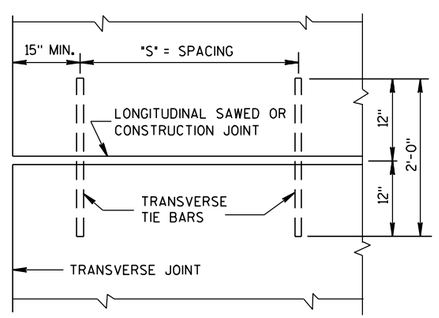


SECTION A-A
LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT



DETAIL "A"

PAVEMENT DEPTH "D"	CLEAR COVER "C"	MAXIMUM TIE BAR SPACING "S"	
		PAVEMENT WIDTH	
		24' OR 26'	≥ 30'
6, 6 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

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DEPARTMENT OF TRANSPORTATION

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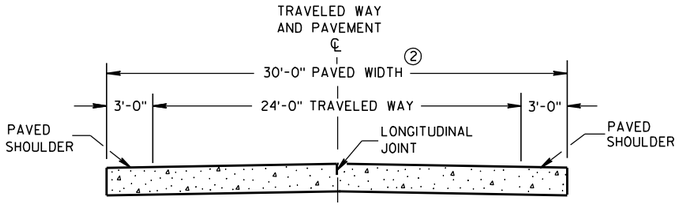
10-5-2010 DATE

/S/ Deb Bischoff
PAVEMENT POLICY & DI ENGINEER

FHWA

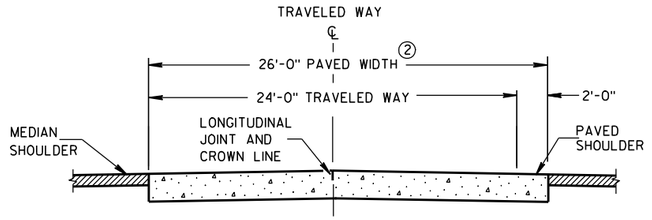
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S.D.D. 13 C 1-15
S.D.D. 13 C 1-15

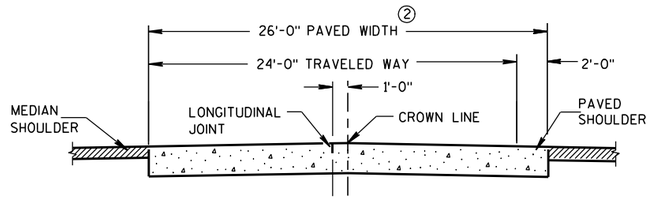


SECTION A-A ①

TWO-LANE TWO-WAY HIGHWAY



SECTION B-B



ALTERNATIVE SECTION B-B

①

DIVIDED HIGHWAY

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT SEAL OR FILL CONTRACTION JOINTS.

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

FOR PAVEMENT SLABS OF VARYING WIDTHS, CENTER THE DOWEL ASSEMBLY ACROSS THE LANES. LOCATE THE INNER AND OUTER MOST DOWEL BARS SO THAT THE CENTER OF THE BARS ARE A MINIMUM OF 6 INCHES AND A MAXIMUM OF 12 INCHES FROM THE LONGITUDINAL JOINT AND THE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 4 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.

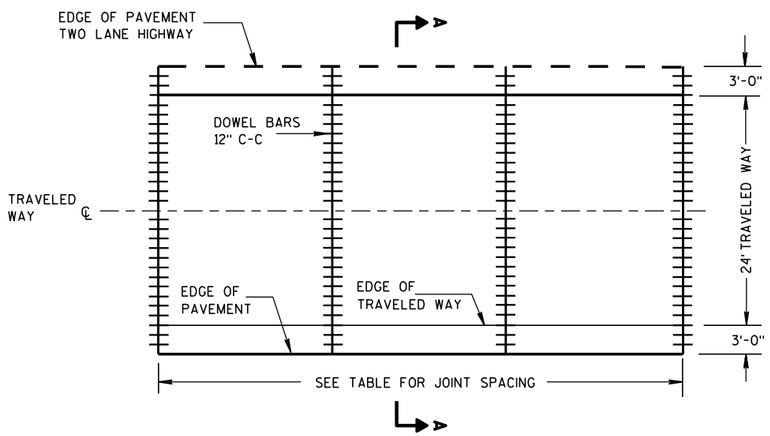
THE CONTRACTOR MAY INSERT TIE BARS THROUGH THE HEADER BOARD AFTER THE CONCRETE HAS BEEN PLACED.

① REFER TO TYPICAL CROSS SECTIONS FOR ADDITIONAL DETAILS.

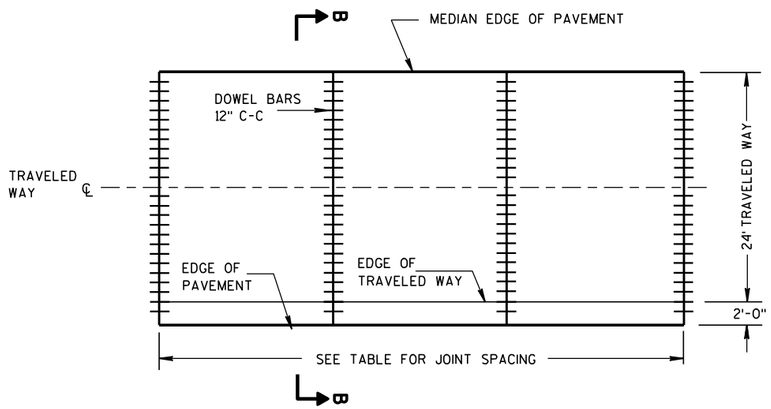
② MEASURE THE ENTIRE PAVED WIDTH INCLUDING THE PORTION(S) LABELED PAVED SHOULDER AS CONCRETE PAVEMENT.

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 ¼"	15'
9", 9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'



CONTRACTION JOINT LAYOUT FOR TWO-LANE TWO-WAY HIGHWAY



CONTRACTION JOINT LAYOUT FOR DIVIDED HIGHWAY

RURAL DOWELED CONCRETE PAVEMENT

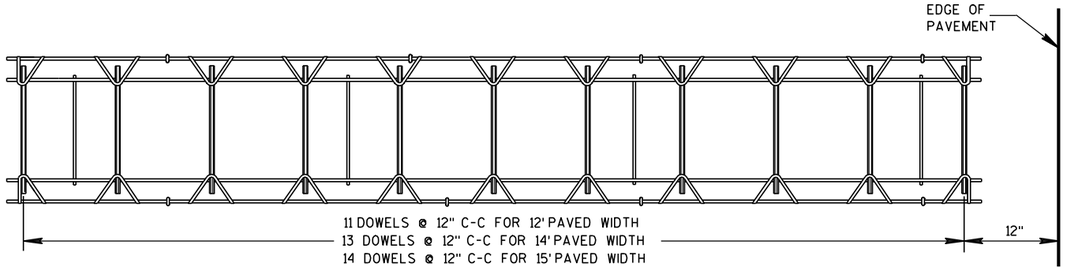
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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S.D.D. 13 C 11-10a

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S.D.D. 13 C 11-10a



PLAN VIEW

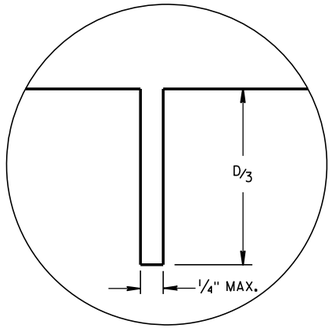


⑤

SIDE VIEW

(NORMAL TO CENTERLINE)

CONTRACTION JOINT DOWEL ASSEMBLY ①



JOINT DETAIL

GENERAL NOTES

① THE ENGINEER MAY APPROVE THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. THE CONTRACTOR MAY USE MECHANICAL DOWEL BAR INSERTERS INSTEAD OF DOWEL ASSEMBLIES.

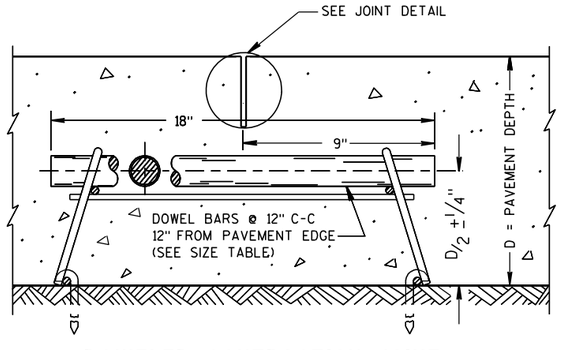
② ANCHOR DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY.

③ APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

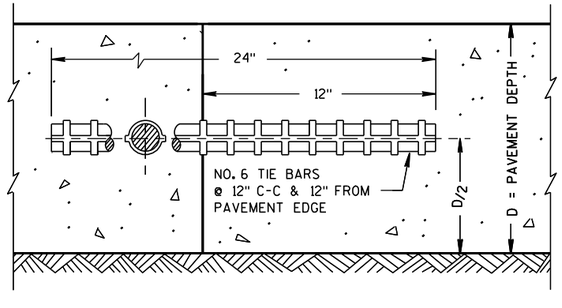
④ SPACE DOWEL BARS INSTALLED BY DRILLING 1'-3" ON CENTER. CENTER THE GROUPING OF DOWEL BARS INSIDE THE SLAB BASED ON ALL THE FOLLOWING SITUATIONS:

BETWEEN THE EDGES OF PAVEMENTS WITHOUT LONGITUDINAL JOINTS OR BETWEEN THE EDGE OF PAVEMENT AND NEAREST LONGITUDINAL JOINT OR BETWEEN TWO ADJACENT LONGITUDINAL JOINTS.

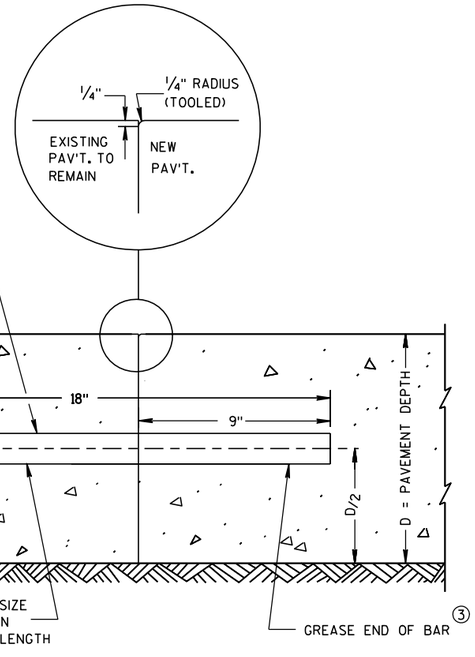
⑤ SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.



DOWELED CONTRACTION JOINT



CONSTRUCTION JOINT



TRANSVERSE CONTRACTION JOINTS ABUTTING EXISTING PAVEMENT

④ **DOWEL BAR DETAIL**

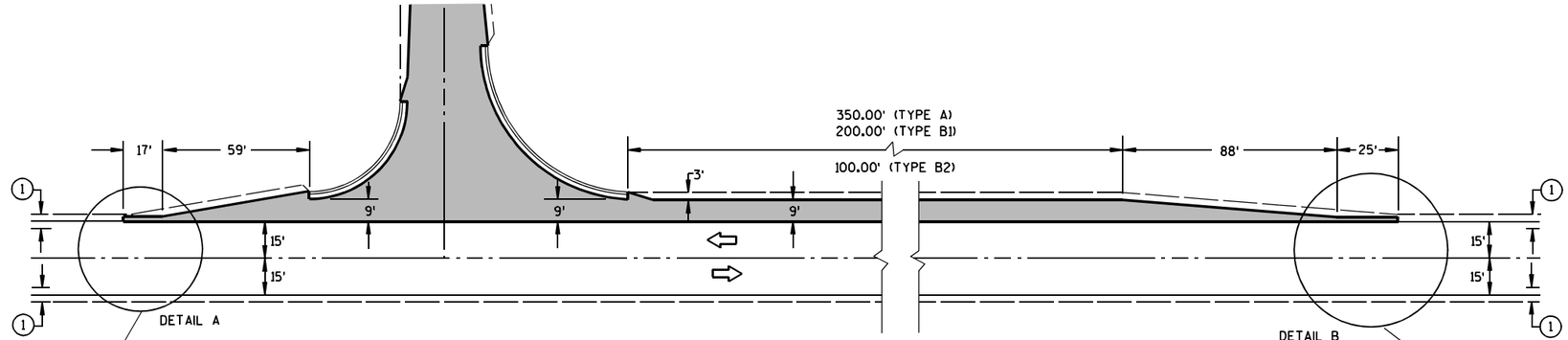
RIRAL DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

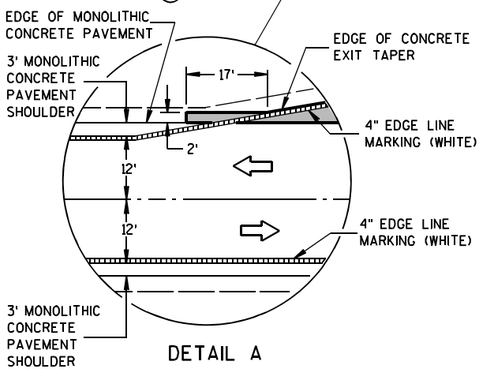
APPROVED
12/11/09 — DATE
/S/ Deb Bischoff — PAVEMENT POLICY & DE — NEER
FHWA

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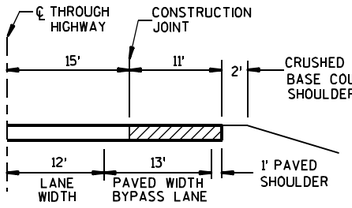
S.D.D. 13 C 11-10b



RIGHT TURN LANE AND EXIT TAPER

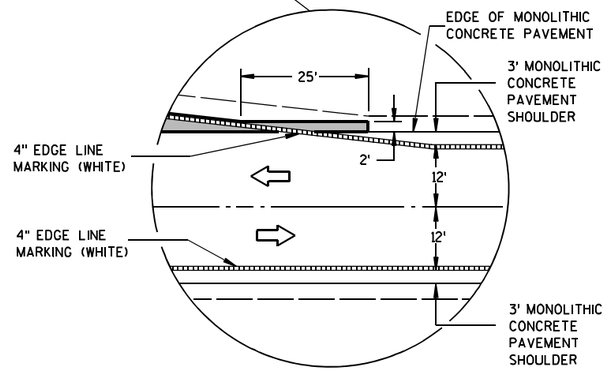


DETAIL A



SECTION A-A

(SHOWING BYPASS LANE AND SHOULDER)



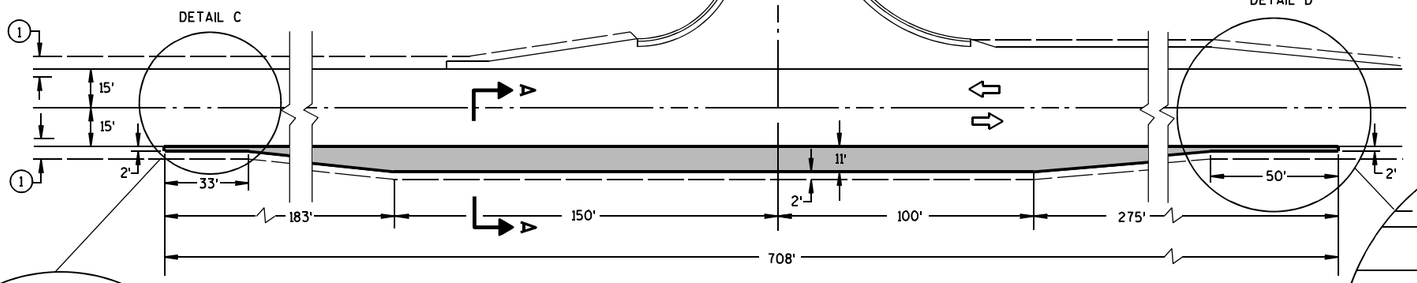
DETAIL B

GENERAL NOTES

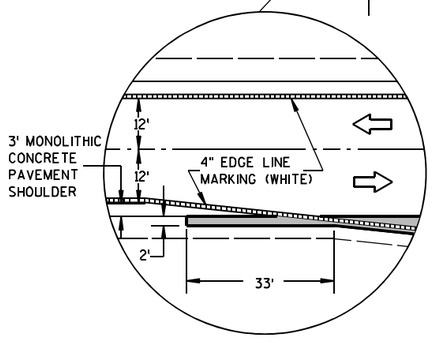
CONTINUE SAW CUT CONTRACTION JOINT ACROSS TURN LANE, EXIT TAPER AND PASSING LANE.

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

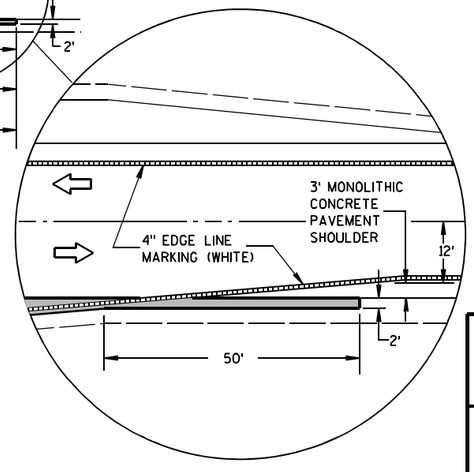
SHOULDER WIDTH TABLE (1)		
DESIGN CLASS	PAVED	TOTAL
A1	3 ft.	6 ft.
C3, L4	3 ft.	6 ft.
A2	3 ft.	10 ft.
C4, L5	3 ft.	8 ft.



TWO LANE UNDIVIDED HIGHWAY TEE INTERSECTION BYPASS LANE



DETAIL C



DETAIL D

CONCRETE PAVEMENT JOINT DETAILS

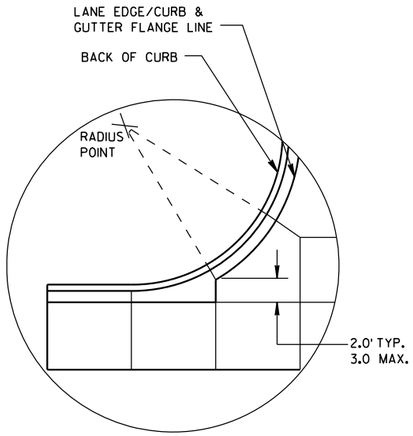
CONCRETE JOINT DETAIL FOR TEE INTERSECTION BYPASS LANE AND RIGHT TURN LANE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

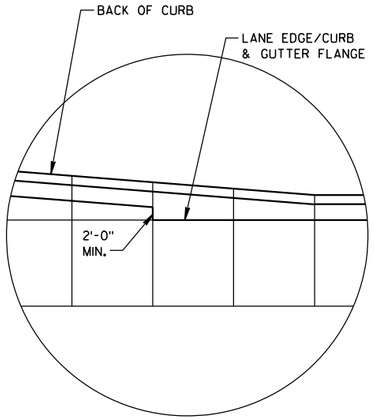
APPROVED
5/27/1998 DATE
/S/ Rory L. Rhin[illegible] CHIEF ROADWAY DEVELOP[illegible]INEER
FHWA

6

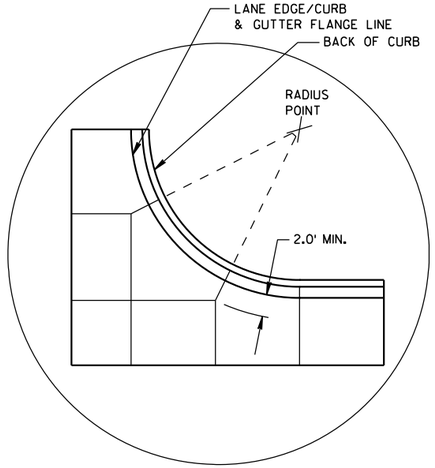
S.D.D. 13 C 16-1



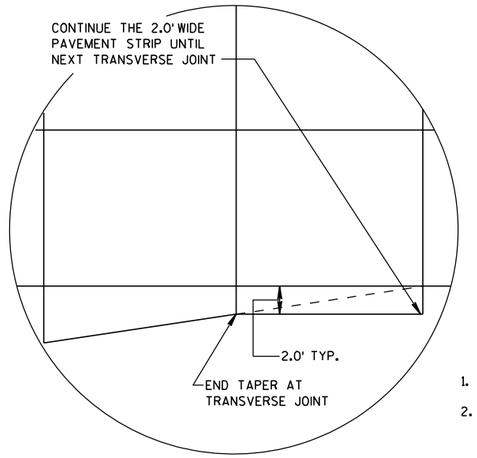
DETAIL "A"



DETAIL "B"



DETAIL "C"



DETAIL "D"

GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G. MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

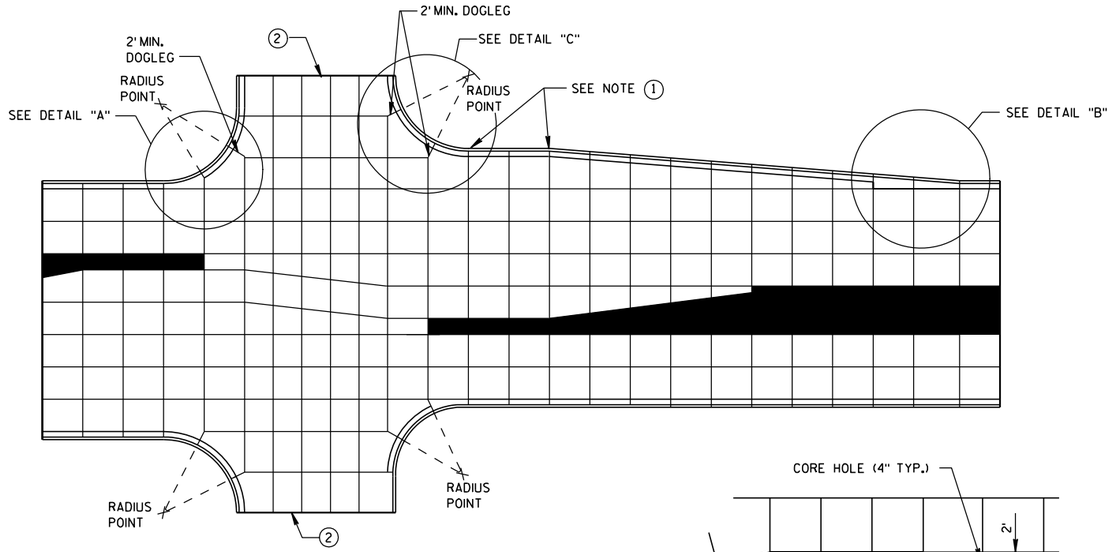
AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

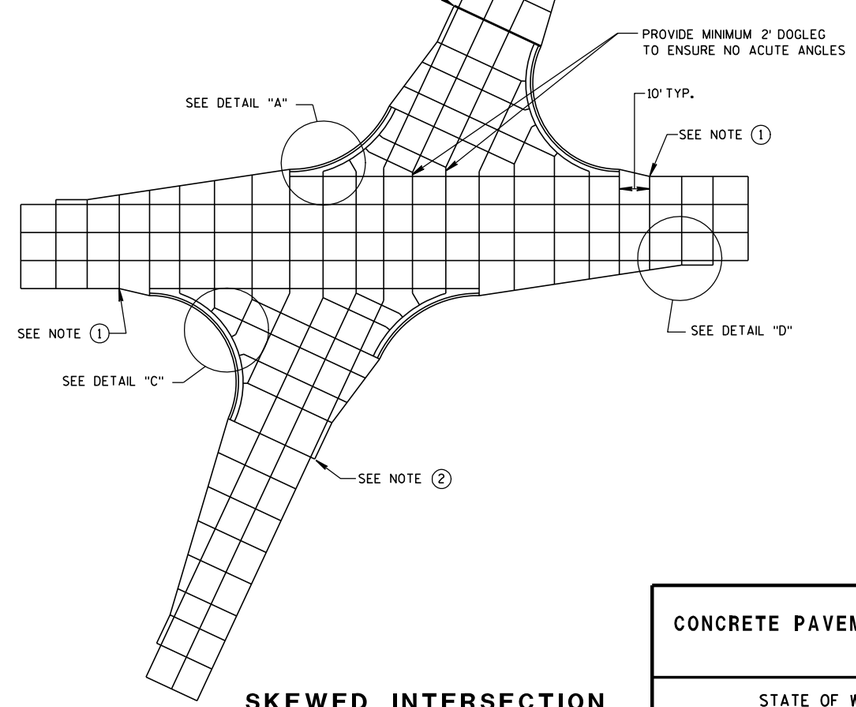
1. PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.
2. CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH EDGE OF RADIUS.
3. THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



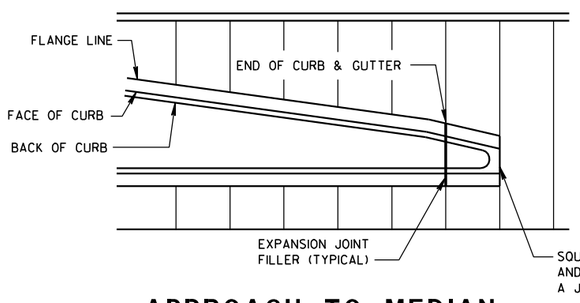
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

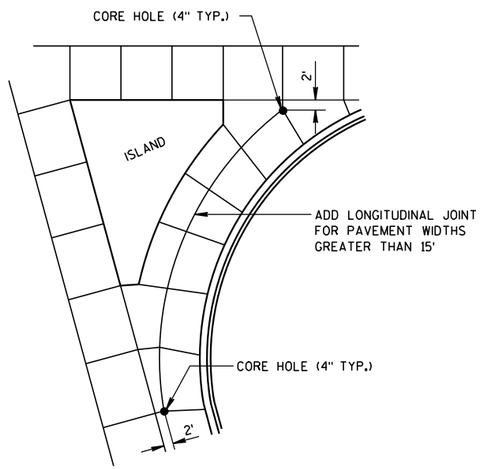
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6½"	12'
7", 7½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



APPROACH TO MEDIAN



LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

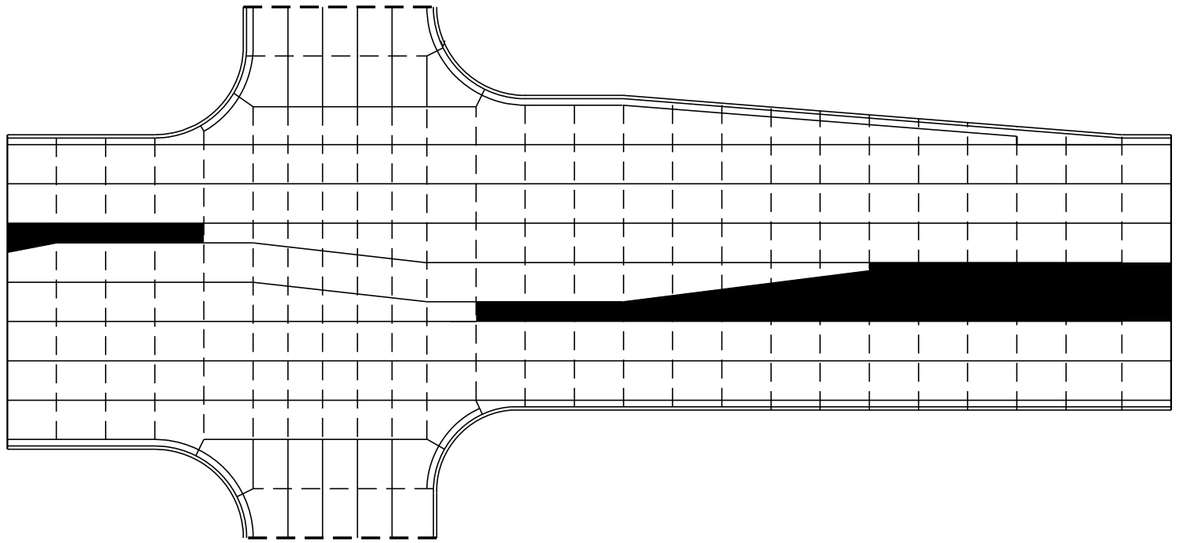
S.D.D. 13 C 18-1a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

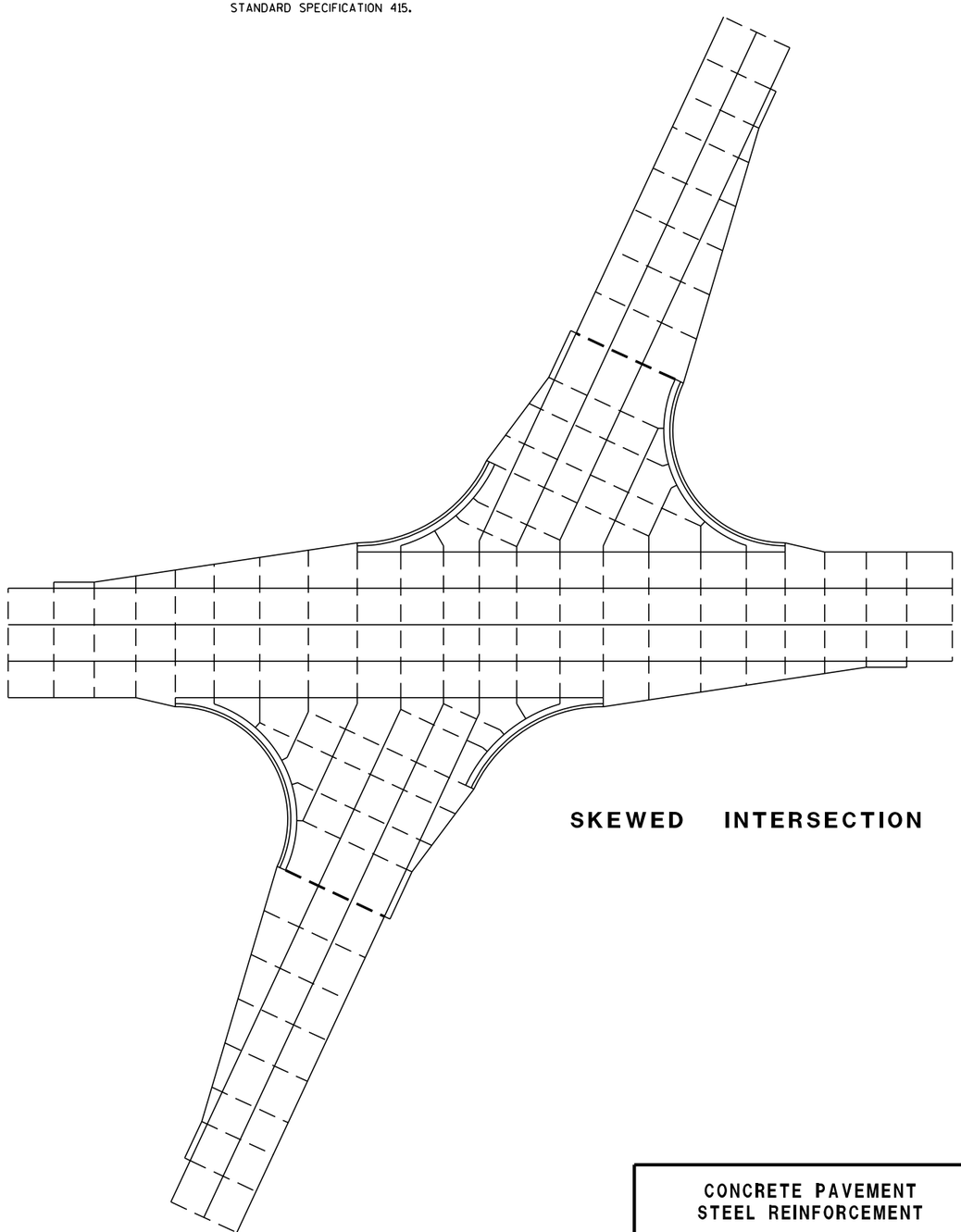
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

6

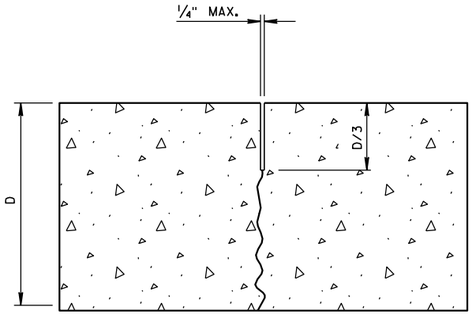
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S.D.D. 13 C 18-1b

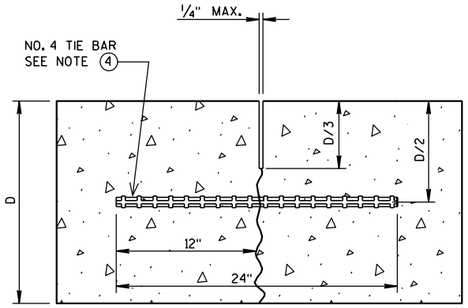
S.D.D. 13 C 18-1b

CONCRETE PAVEMENT
STEEL REINFORCEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



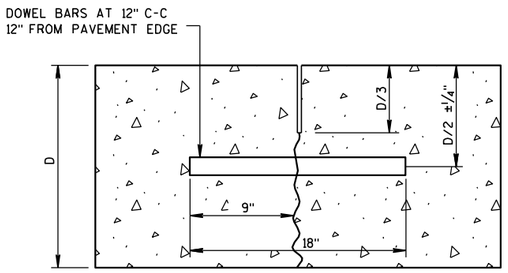
UNDOWELED-TRANSVERSE



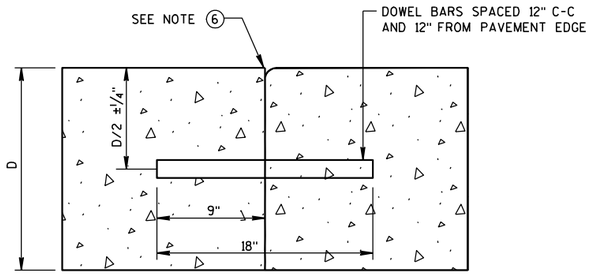
TIED LONGITUDINAL

GENERAL NOTES

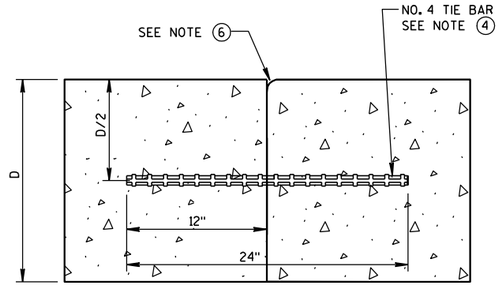
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATE THE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 4 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO THE CONTRACTION JOINTS.
4. SPACE TIE BARS AT LONGITUDINAL CONSTRUCTION OR CONTRACTION JOINTS IN ACCORDANCE WITH SDD 13C1.
5. CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.
6. IF JOINT IS FORMED, PROVIDE A 1/4-INCH RADIUS.



DOWELED-TRANSVERSE



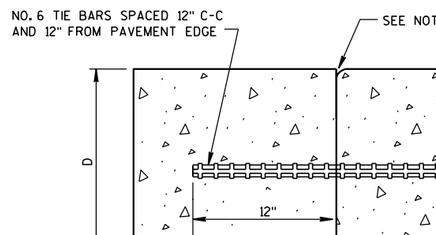
DOWELED TRANSVERSE



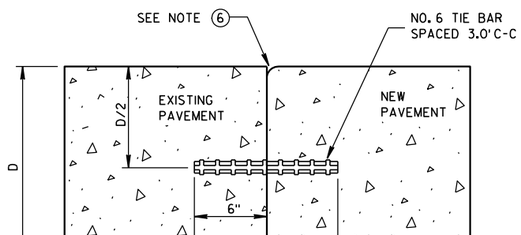
TIED LONGITUDINAL

CONTRACTION JOINTS

SEE NOTE (2)



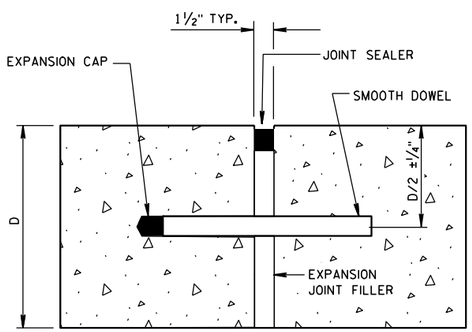
TIED TRANSVERSE
SEE NOTE (3)



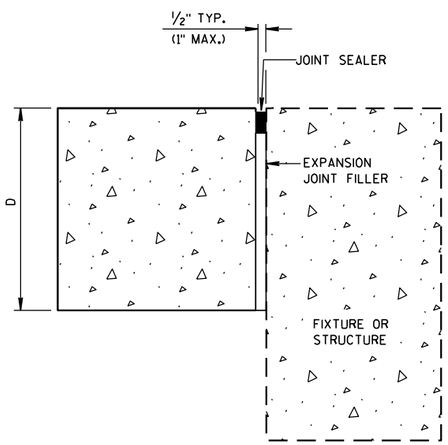
TIED LONGITUDINAL TO EXISTING

CONSTRUCTION JOINTS

SEE NOTE (5)



DOWELED-TRANSVERSE
SEE NOTE (1)



UNTIED-LONGITUDINAL

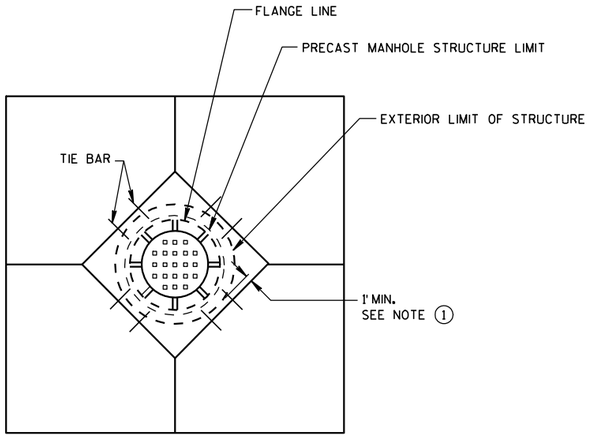
EXPANSION JOINTS

CONCRETE PAVEMENT
JOINT TYPES

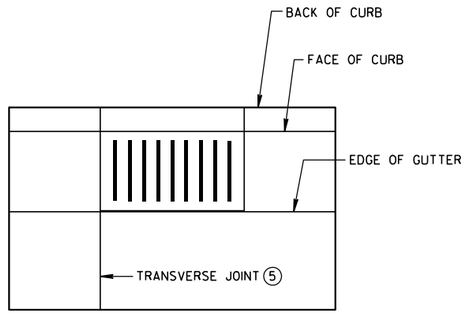
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

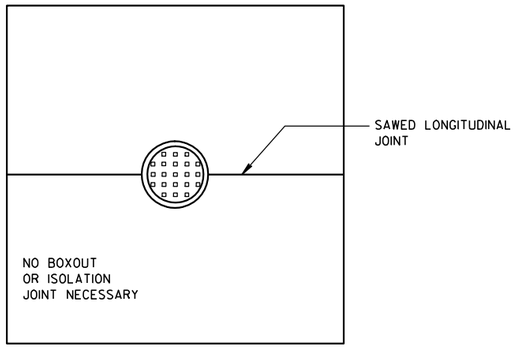
S.D.D. 13 C 18-1c



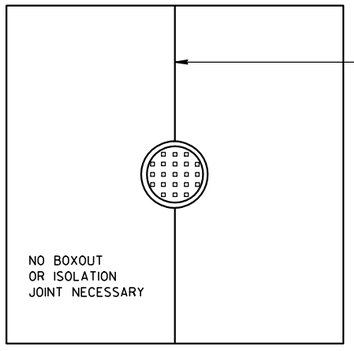
DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS



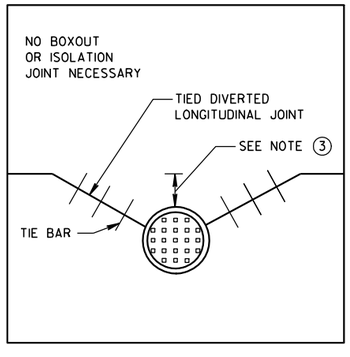
INLET WITH TRANSVERSE JOINT



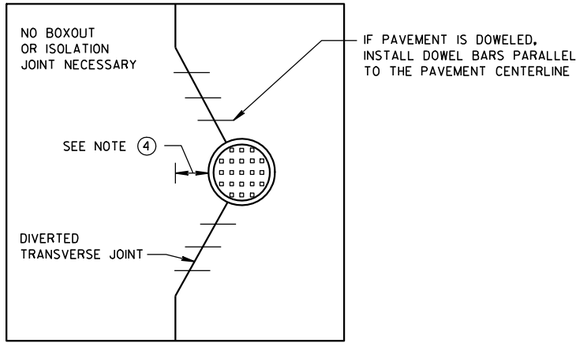
MANHOLE WITH LONGITUDINAL JOINT



MANHOLE WITH TRANSVERSE JOINT



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT

GENERAL NOTES

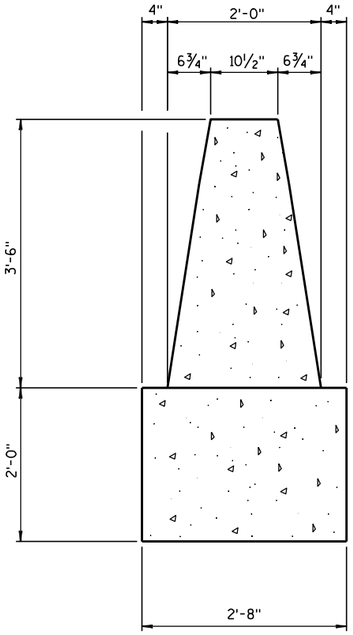
1. USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1 FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
2. ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
3. IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS GREATER THAN 2 FEET, DO NOT DIVERT JOINT AND SAW LONGITUDINAL JOINT AS NORMAL. IF DISTANCE IS 2 FEET OR LESS, DIVERT LONGITUDINAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE.
4. IF DISTANCE FROM THE EDGE OF MANHOLE TO THE NEAREST TRANSVERSE JOINT IS GREATER THAN 4 FEET, REDIRECT JOINT TO INTERSECT MANHOLE. IF DISTANCE IS 4 FEET OR LESS, PLACE REBAR REINFORCEMENT AROUND MANHOLE.
5. ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.

CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

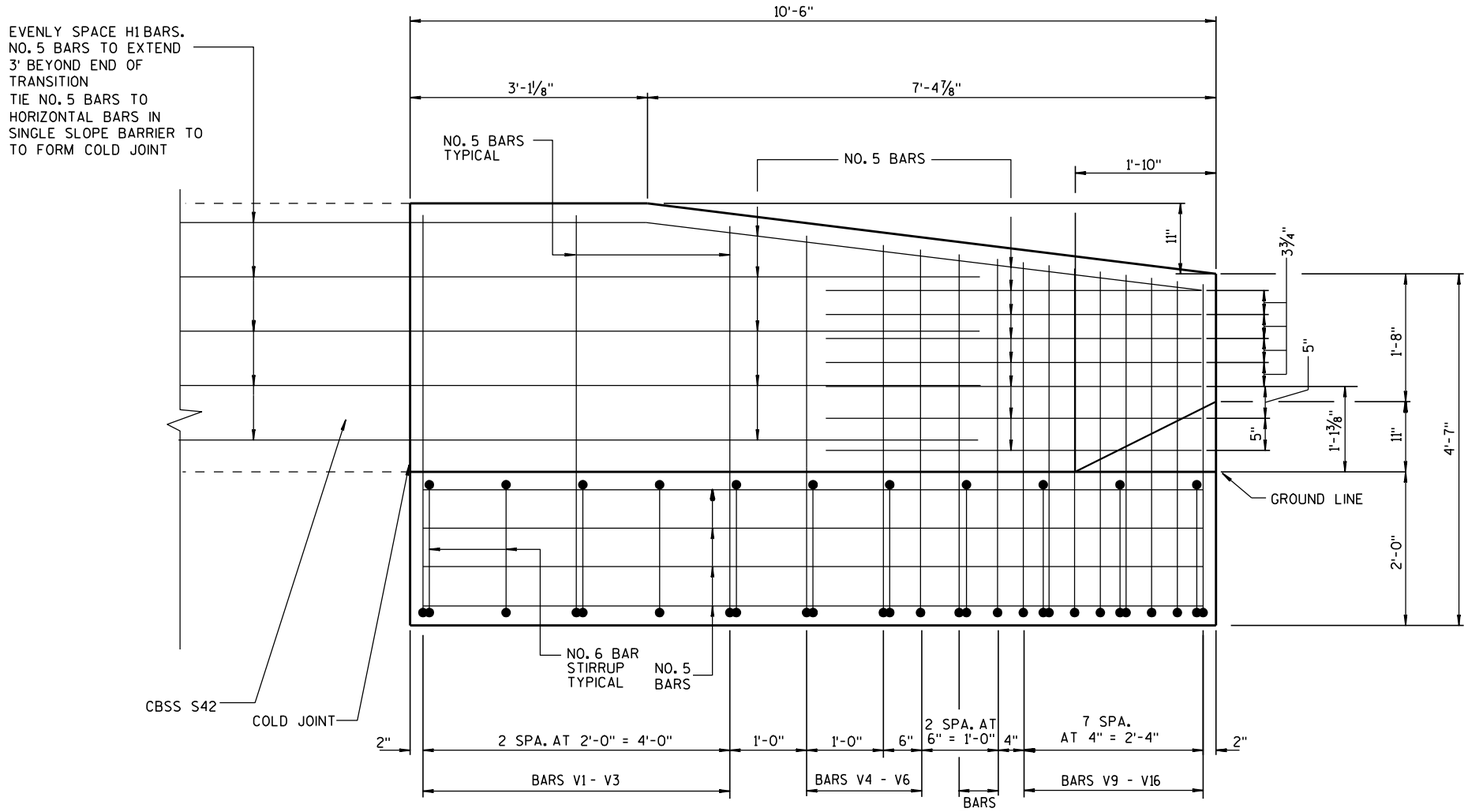
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10-5-2010 — DATE
/S/ Deb Bischoff — PAVEMENT POLICY & D ENGINEER
FHWA

6
S.D.D. 13 C 18-1d

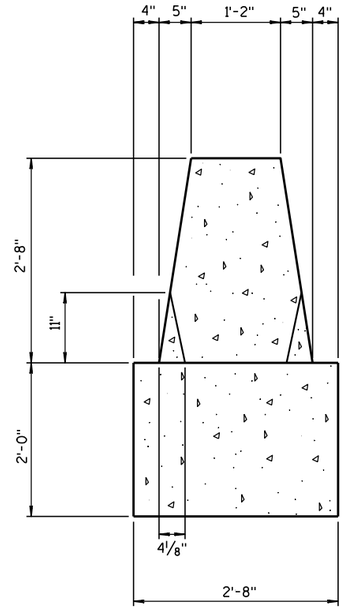


SECTION A-A

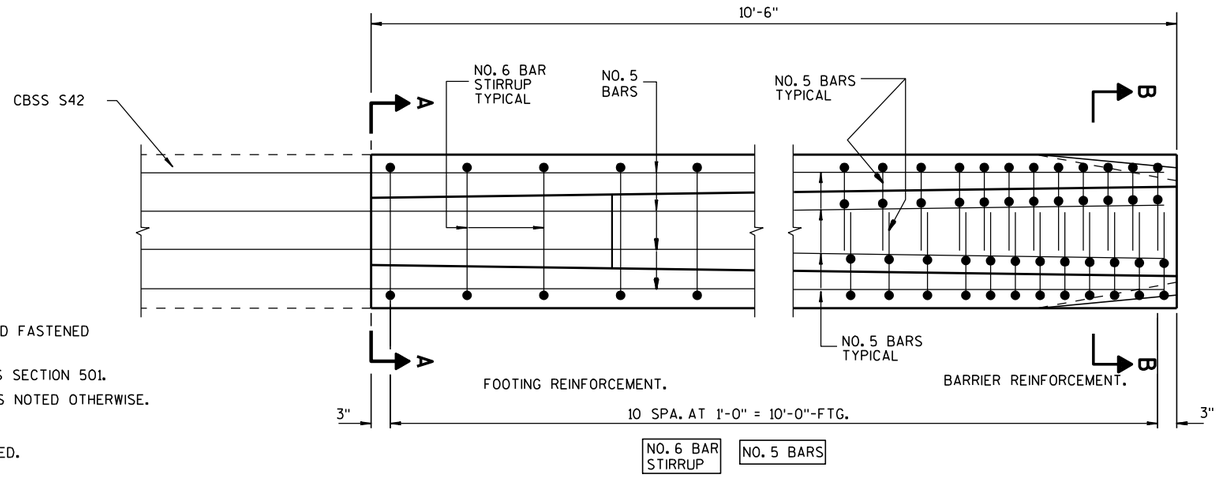


SEE SECTIONS ① THRU ⑯

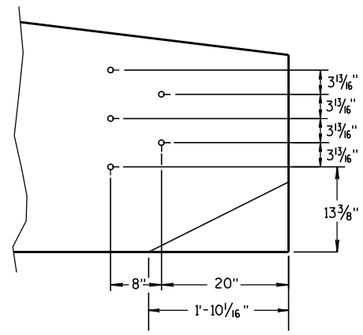
ELEVATION VIEW



SECTION B-B



PLAN VIEW



PVC PIPE LOCATIONS

GENERAL NOTES

CONSTRUCT PER STANDARD SPECIFICATION 603.

SPLICES OF LONGITUDINAL BARS TO BE 2'LONG AND FIRMLY TIED AND FASTENED TOGETHER UNLESS NOTED OTHERWISE.

4000 PSI CONCRETE AIR ENTRAINMENT PER STANDARD SPECIFICATIONS SECTION 501.

USE ¾" BEVEL OR 1" RADIUS ON ALL EXPOSED SHARP EDGES UNLESS NOTED OTHERWISE.

THRIE BEAM ANCHOR INCIDENTAL TO CONCRETE BARRIER ITEM.

INSTALL SCHEDULE 40 PVC PIPE 1" DIAMETER AT LOCATIONS INDICATED.

EXTEND PVC PIPE COMPLETELY THROUGH BARRIER.

CUT ENDS OF PVC PIPE FLUSH WITH FINISHED FACE of BARRIER.

THE NUMBER IN BAR DESIGNATION REPRESENTS THE BARS LOCATION.

2" CLEAR COVER TYPICAL.

CONCRETE BARRIER SINGLE SLOPE 42" THRIE BEAM ANCHOR

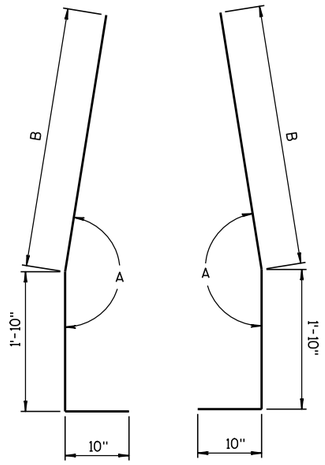
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 14 B 33-1g

BAR CHART
SECTIONS V1 - V11

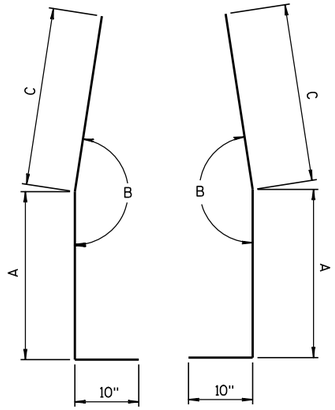
BAR	A	B
V1	170°-50'	3'-4½"
V2	171°-20'	3'-4½"
V3	171°-30'	3'-2½"
V4	171°-25'	3'-1½"
V5	171°-15'	3'-0"
V6	171°-15'	2'-11"
V7	171°-20'	2'-10½"
V8	171°-10'	2'-9½"
V9	171°-10'	2'-9"
V10	171°-05'	2'-8½"
V11	171°-10'	2'-8"



BAR BENDING DETAIL
FOR BARS V1 - V11

BAR CHART
SECTIONS V12 - V13

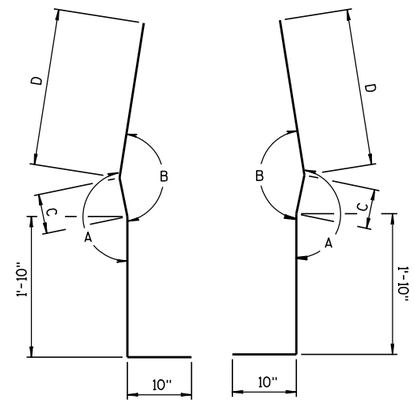
BAR	A	B	C
V12	2'-2"	171°-15'	2'-3½"
V13	2'-7"	171°-05'	1'-10"



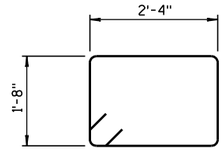
BAR BENDING DETAIL
FOR BARS V12 - V13

BAR CHART
SECTIONS V14 - V16

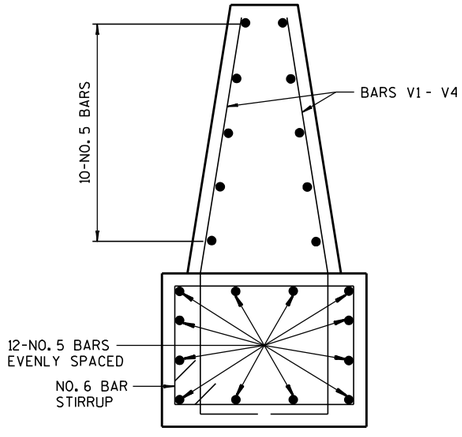
BAR	A	B	C	D
V14	168°-15'	159°-15'	6"	2'-0"
V15	169°-20'	161°-00'	8"	1'-10"
V16	168°-40'	160°-10'	10"	1'-8"



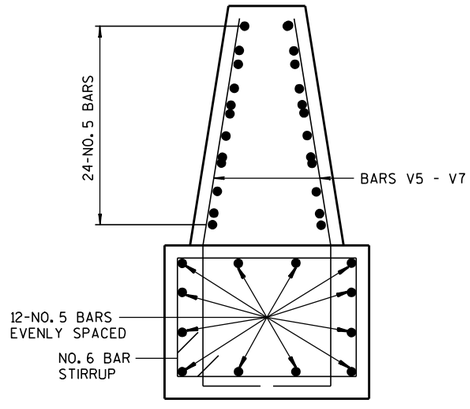
BAR BENDING DETAIL
FOR BARS V14 - V16



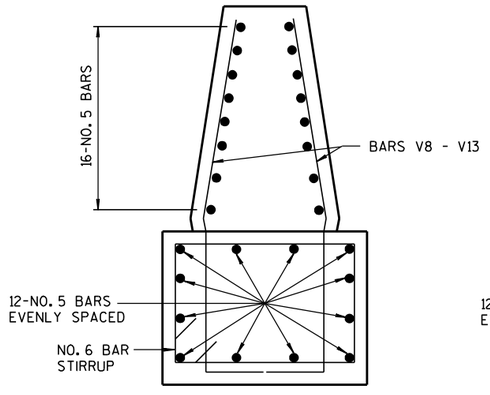
STIRRUP BAR
BENDING DETAIL



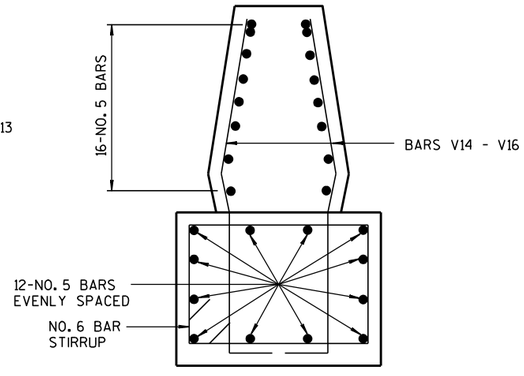
BAR DETAIL
SECTIONS V1 - V4



BAR DETAIL
SECTIONS V5 - V7



BAR DETAIL
SECTIONS V8 - V13



BAR DETAIL
SECTIONS V14 - V16

CONCRETE BARRIER
SINGLE SLOPE 42"
THRIE BEAM ANCHOR

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6-3-2010 DATE
/S/ Jerry H. Z--- ROADWAY STANDARDS ENGINEER
FHWA

6
S.D.D. 14 B 33-1h

GENERAL NOTES

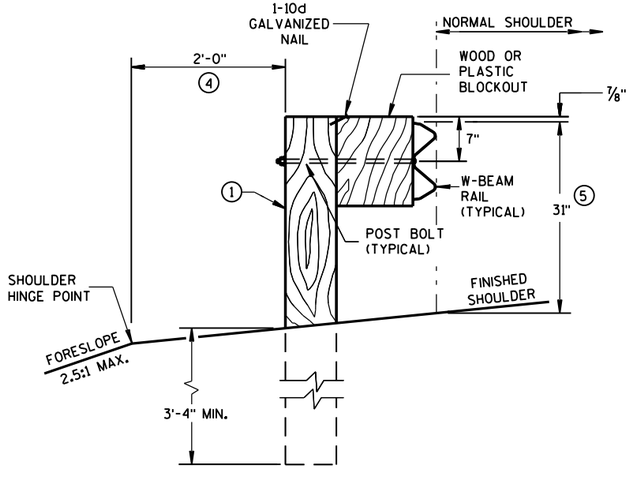
1. WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

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.

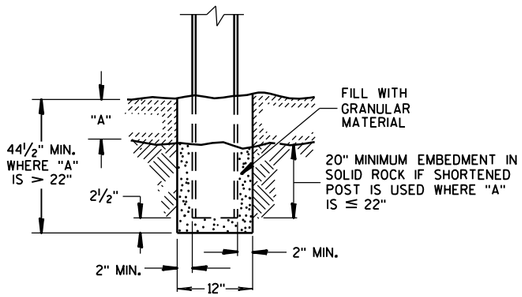
4. WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

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".



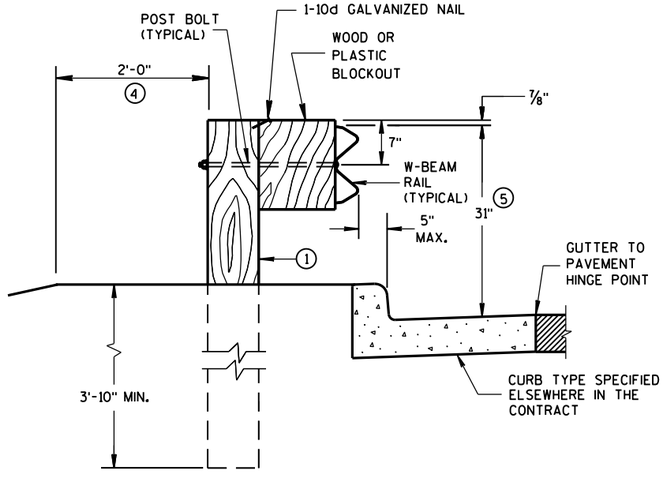
END VIEW

LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



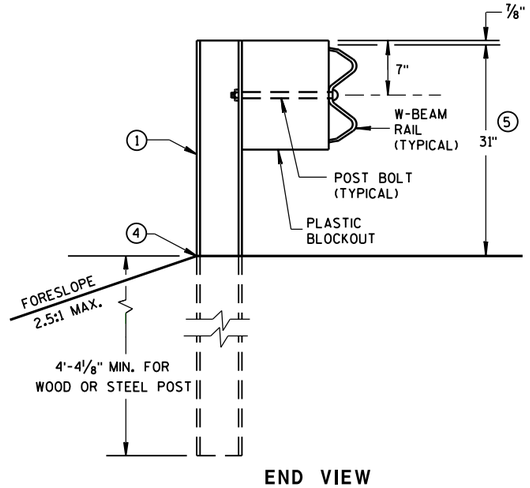
END VIEW

SETTING STEEL OR WOOD POST IN ROCK ③



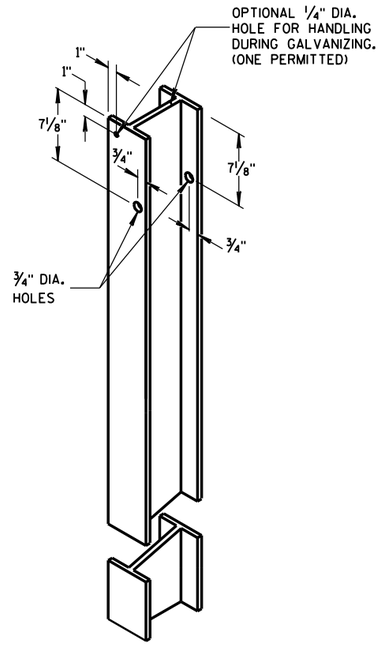
END VIEW

LOCATED ALONG A CURBED ROADWAY

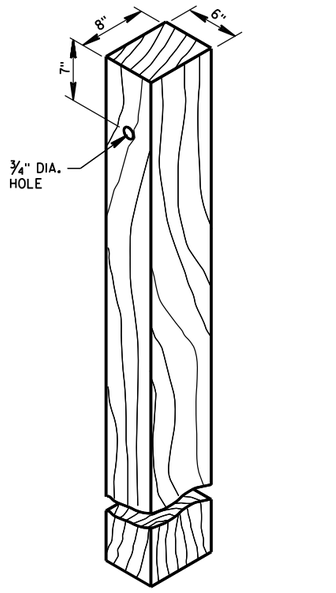


END VIEW

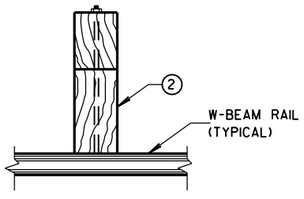
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



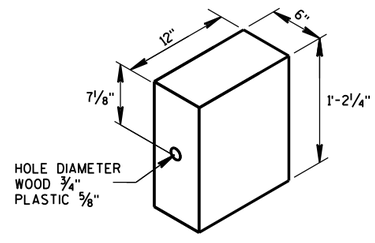
STEEL POST &
HOLE PUNCHING DETAIL
(w6X9) ①



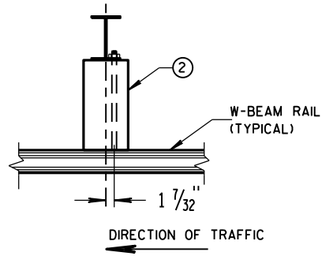
WOOD POST
(6" X 8") NOMINAL ①



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



WOOD OR
PLASTIC BLOCKOUT ②

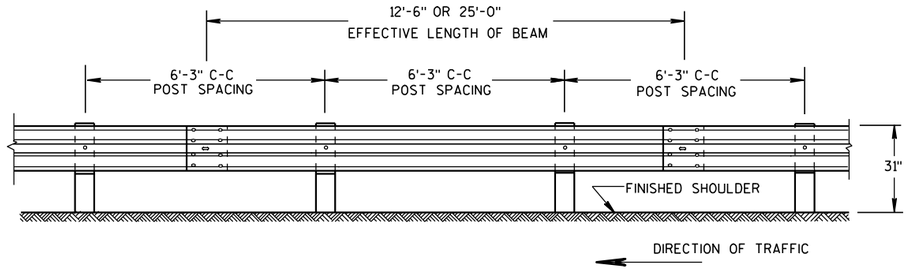


PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

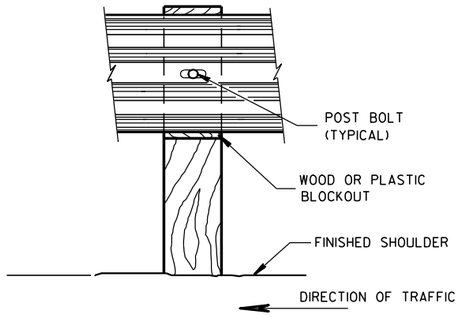
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 14 B 42-2a



FRONT VIEW

POST SPACING STANDARD INSTALLATION



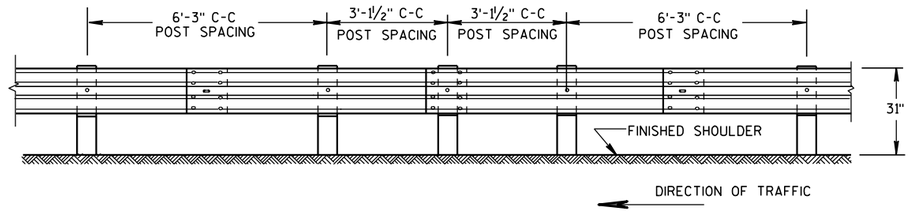
FRONT VIEW AT WOOD POST

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.

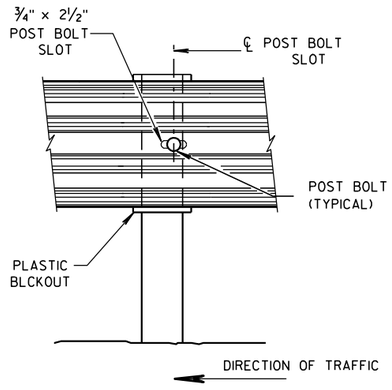
POST BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND 5/8" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

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.

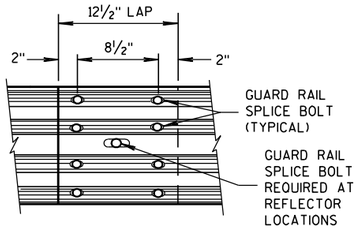


FRONT VIEW

HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)

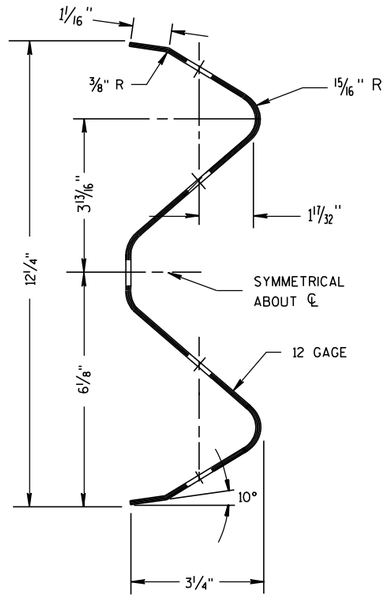


FRONT VIEW AT STEEL POST

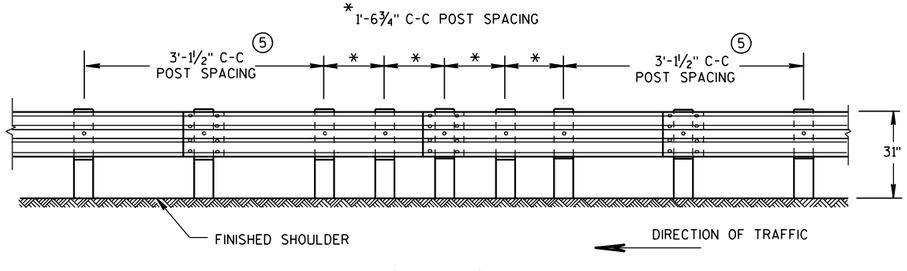


FRONT VIEW

MID-SPAN BEAM SPLICE

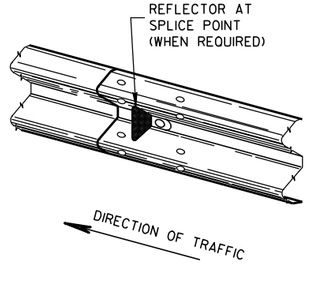


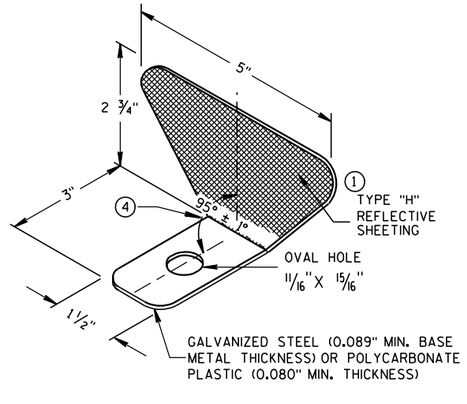
SECTION THRU W-BEAM RAIL



FRONT VIEW

QUARTER POST SPACING (QS)





ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION ①

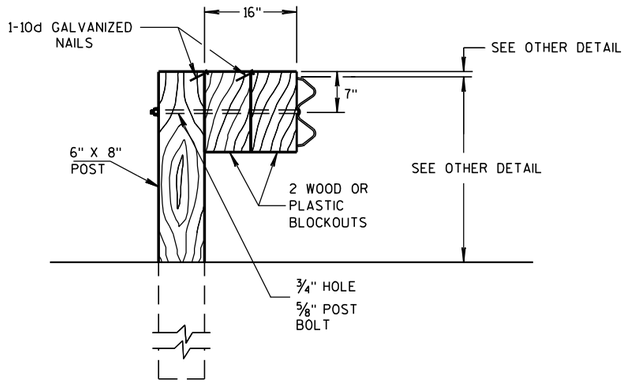
REFLECTOR SPACING ②

	BEAM GUARD LENGTH	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY TRAFFIC	< 200'	50' C-C	1	3
	> 200'	100' C-C	1	
TWO WAY TRAFFIC	< 200'	25' C-C	1 ③	6
	> 200'	50' C-C	1	
TWO WAY TRAFFIC	< 200'	50' C-C	2 ④	3
	> 200'	100' C-C	2	

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

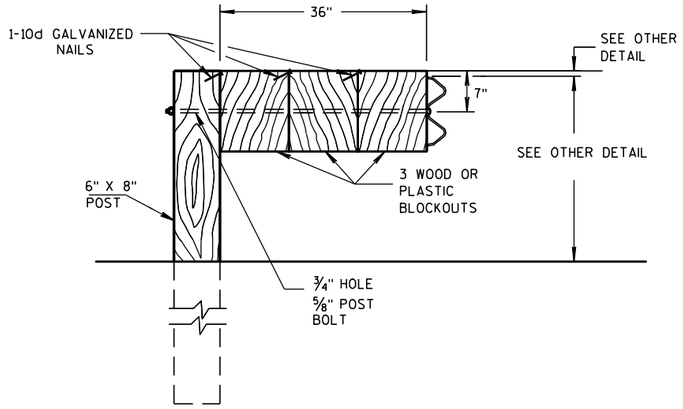
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
S.D.D. 14 B 42-2b



DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.

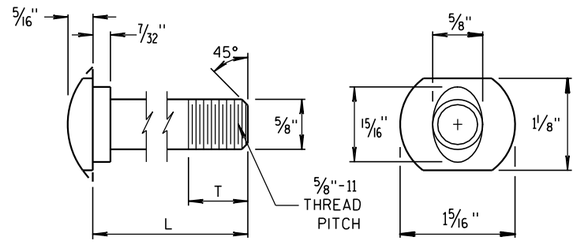


DETAIL FOR 36" BLOCKOUT DEPTH

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

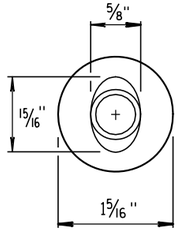
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

NOTE: 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 1/16".
2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

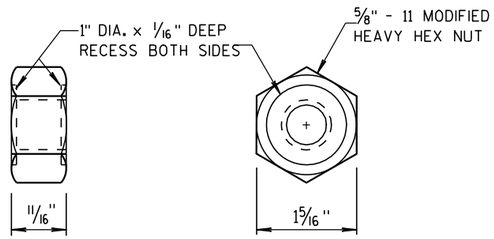


POST BOLT TABLE

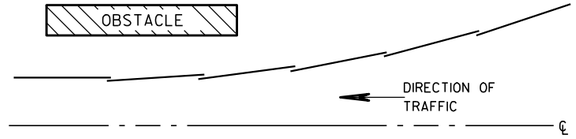
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



ALTERNATE BOLT HEAD

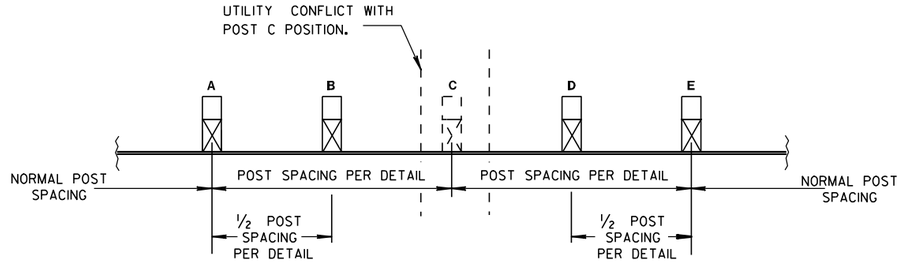


POST BOLT AND RECESS NUT

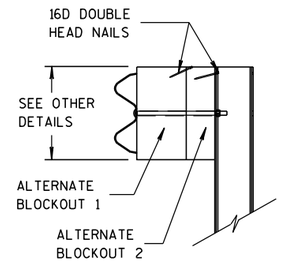


PLAN VIEW

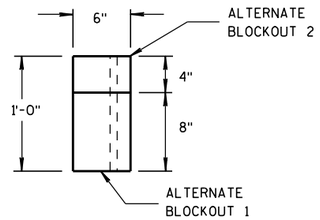
BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



SIDE VIEW



TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/15/2011
DATE

/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER

FHWA

ENT

6

S.D.D. 14 B 42-2c

6

S.D.D. 14 B 42-2c

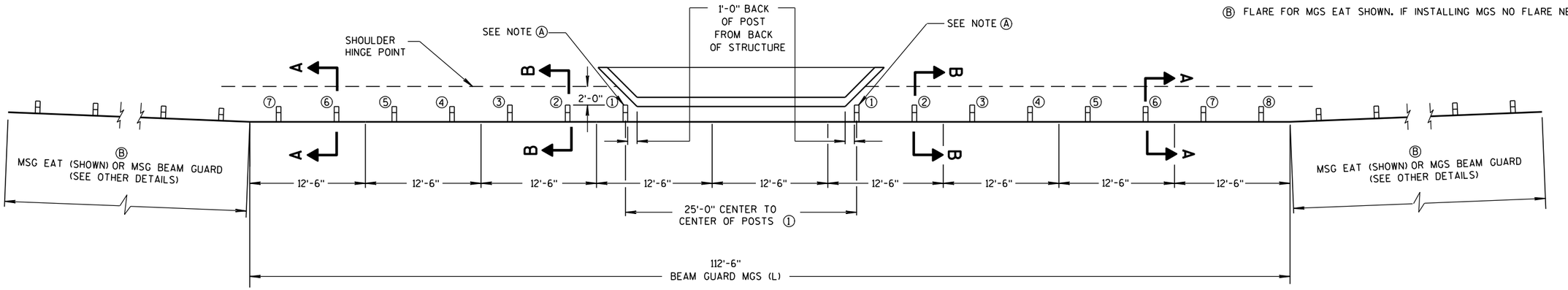
GENERAL NOTES

POSTS 1 THROUGH 3 ARE CRT POSTS.
ALL OTHER POSTS SHALL BE WOOD OR STEEL.

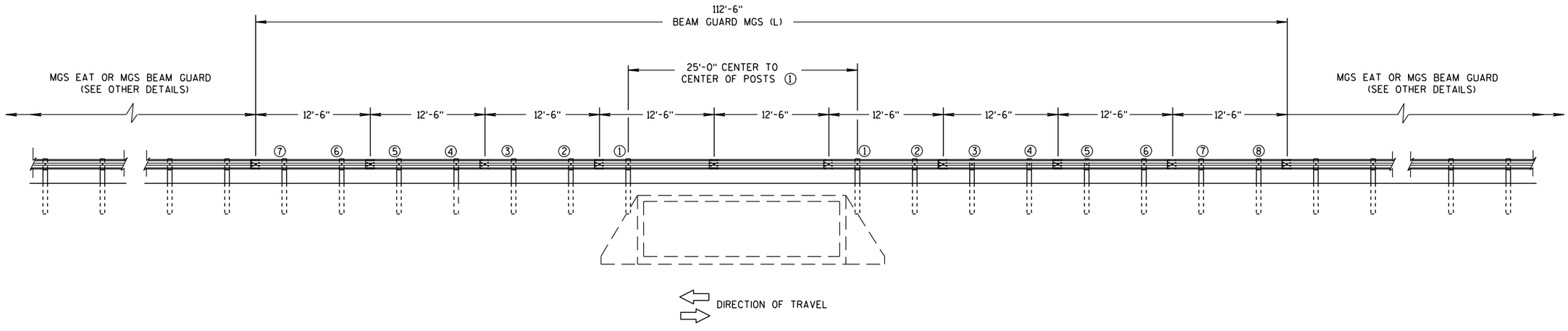
SEE SDD 14 B 42 FOR MORE DETAILS.

Ⓐ THE MINIMUM OFFSET FROM BACK OF POST TO BACK OF STRUCTURE IS ZERO. LARGER OFFSETS ARE ACCEPTABLE.

Ⓑ FLARE FOR MGS EAT SHOWN. IF INSTALLING MGS NO FLARE NEEDED.



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 TRANSPORTATION

6

S.D.D. 15 C 43-1a

S.D.D. 14 B 43-1a

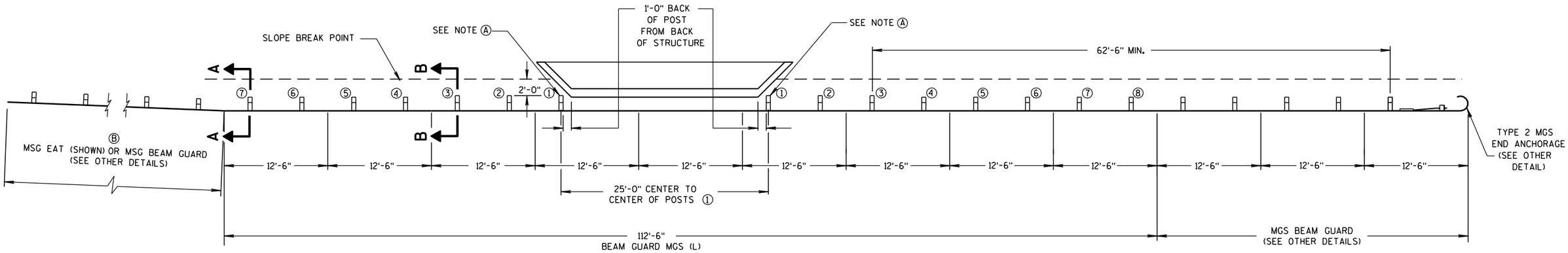
GENERAL NOTES

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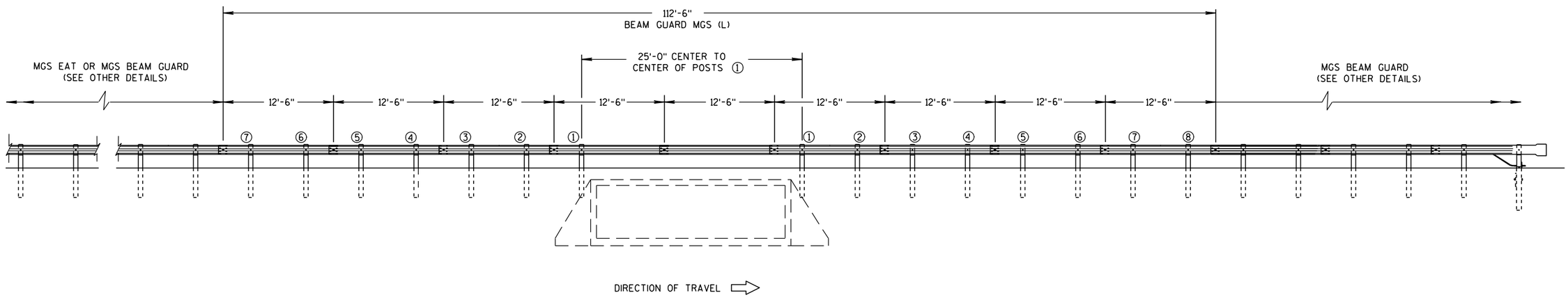
SEE SDD 14 B 42 FOR MORE DETAILS.

Ⓐ THE MINIMUM OFFSET FROM BACK OF POST TO BACK OF STRUCTURE IS ZERO. LARGER OFFSETS ARE ACCEPTABLE.

Ⓑ FLARE FOR MGS EAT SHOWN. IF INSTALLING MGS NO FLARE NEEDED.



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L) ONE-WAY TRAFFIC

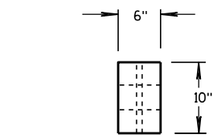
MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	199

6

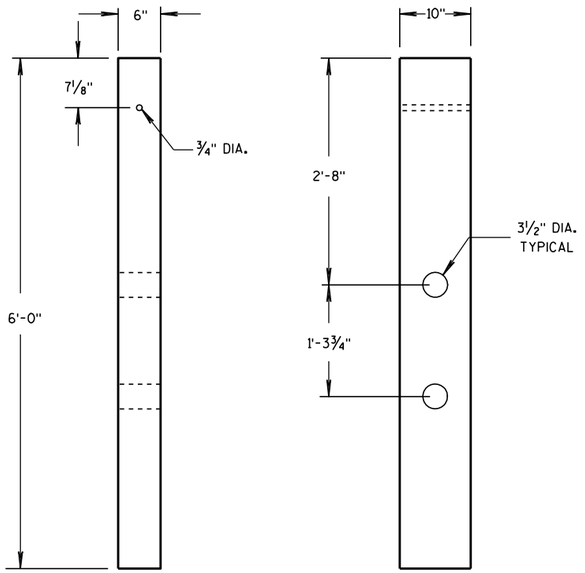
S.D.D. 15 C 43-1b

6

S.D.D. 14 B 43-1b

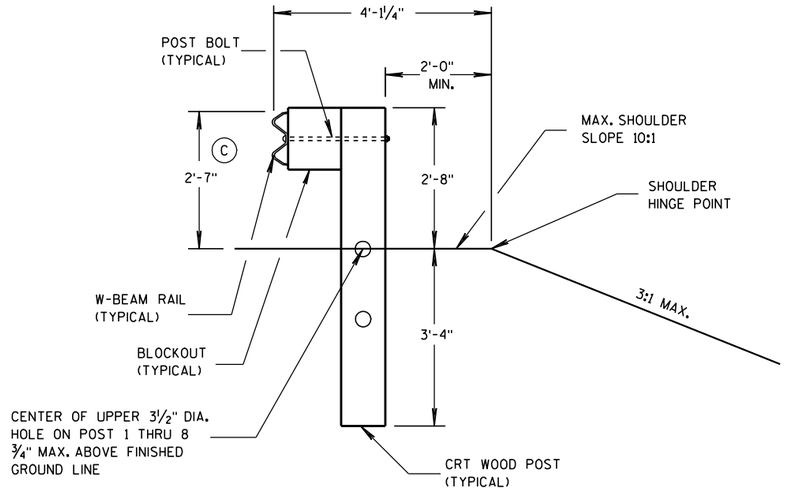


PLAN VIEW



FRONT VIEW SIDE VIEW

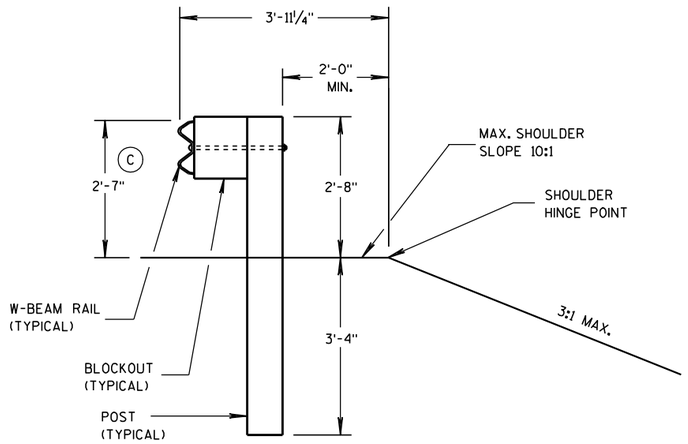
CRT WOOD POST



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".

MIDWEST GUARDRAIL SYSTEM
LONG SPAN MGS (L)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/23/2011
DATE

/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER

200

FHWA

[illegible]ENT

6

S.D.D. 14 B 43-1c

6

S.D.D. 14 B 43-1c

GENERAL NOTES

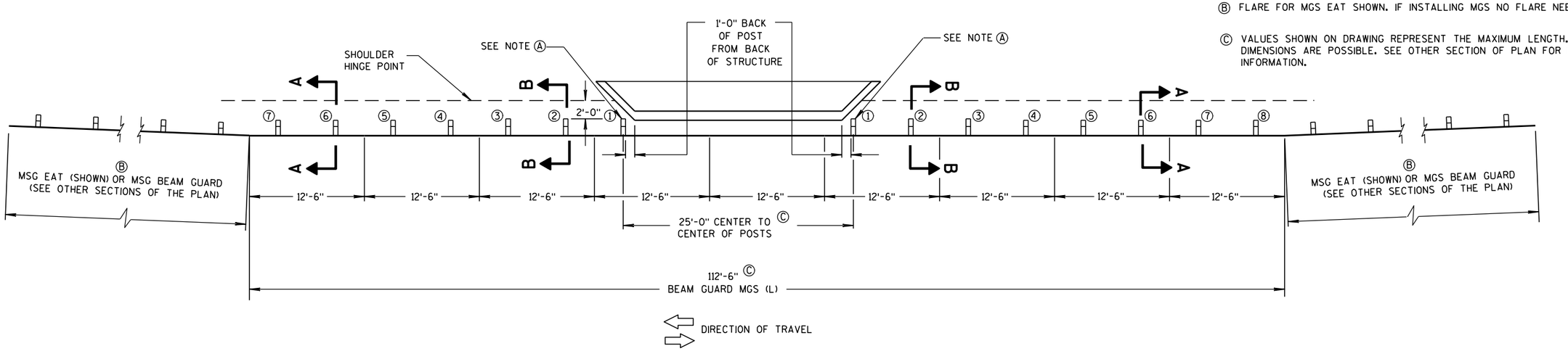
POSTS 1 THROUGH 3 ARE CRT POSTS.
ALL OTHER POSTS SHALL BE WOOD OR STEEL.

SEE SDD 14 B 42 FOR MORE DETAILS.

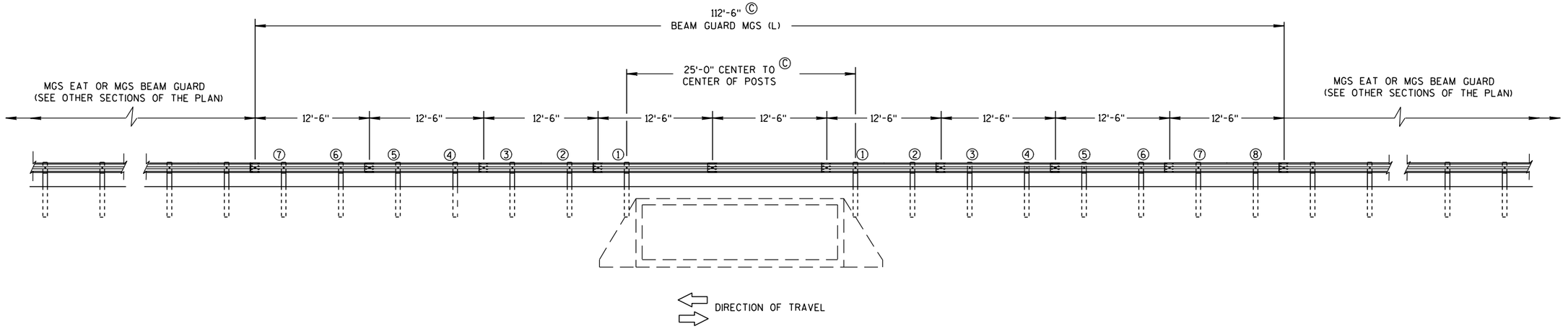
Ⓐ THE MINIMUM OFFSET FROM BACK OF POST TO BACK OF STRUCTURE IS ZERO. LARGER OFFSETS ARE ACCEPTABLE.

Ⓑ FLARE FOR MGS EAT SHOWN. IF INSTALLING MGS NO FLARE NEEDED.

Ⓒ 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 TRANSPORTATION	

6

S.D.D. 14 B 43-2a

GENERAL NOTES

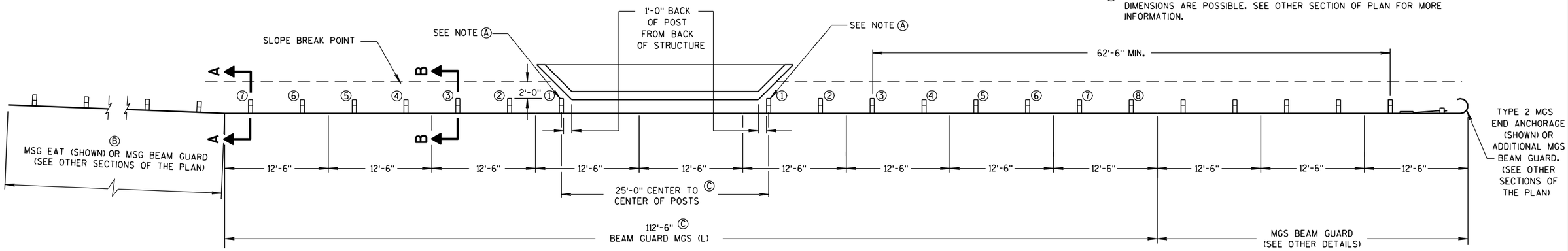
POSTS 1 THROUGH 3 ARE CRT POSTS.
ALL OTHER POSTS SHALL BE WOOD OR STEEL.

SEE SDD 14 B 42 FOR MORE DETAILS.

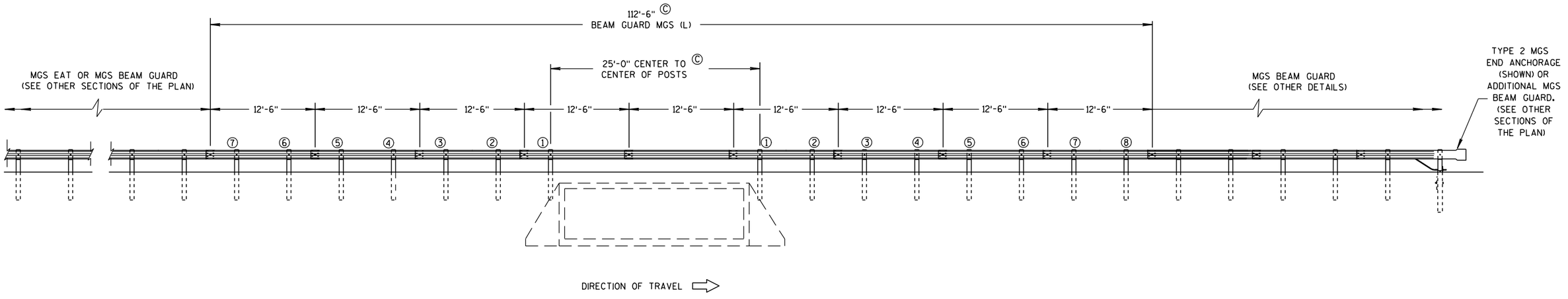
Ⓐ THE MINIMUM OFFSET FROM BACK OF POST TO BACK OF STRUCTURE IS ZERO. LARGER OFFSETS ARE ACCEPTABLE.

Ⓑ FLARE FOR MGS EAT SHOWN. IF INSTALLING MGS NO FLARE NEEDED.

Ⓒ VALUES SHOWN ON DRAWING REPRESENT THE MAXIMUM LENGTH. SHORTER DIMENSIONS ARE POSSIBLE. SEE OTHER SECTION OF PLAN FOR MORE INFORMATION.



PLAN VIEW



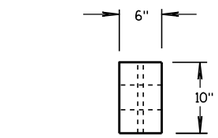
ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L) ONE-WAY TRAFFIC

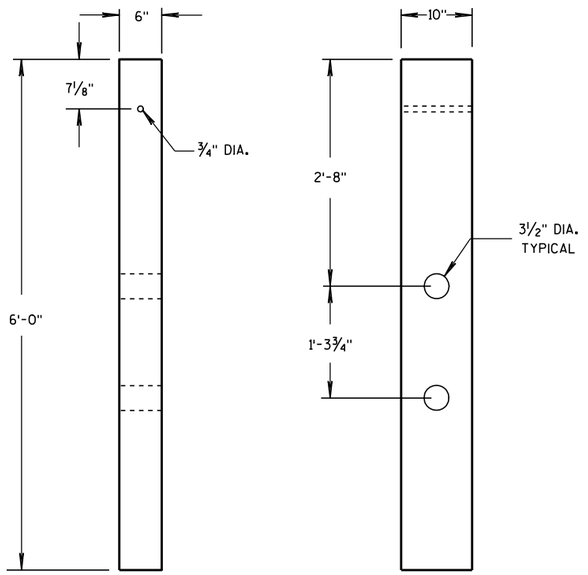
MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	

6

S.D.D. 14 B 43-2b

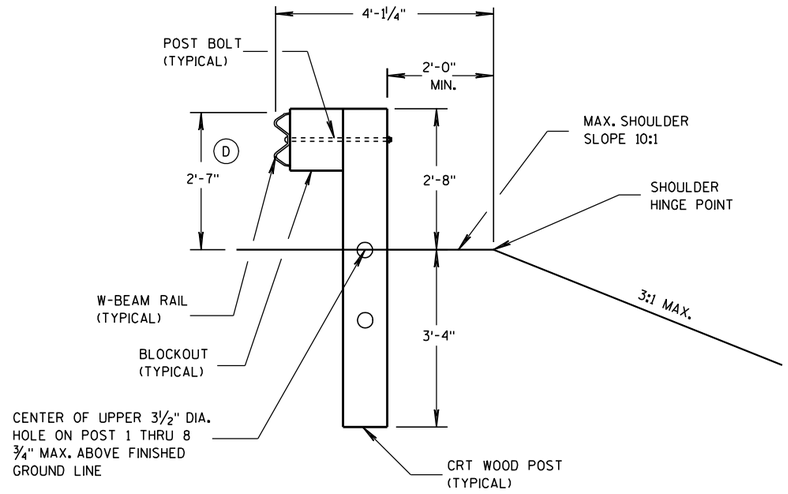


PLAN VIEW



FRONT VIEW SIDE VIEW

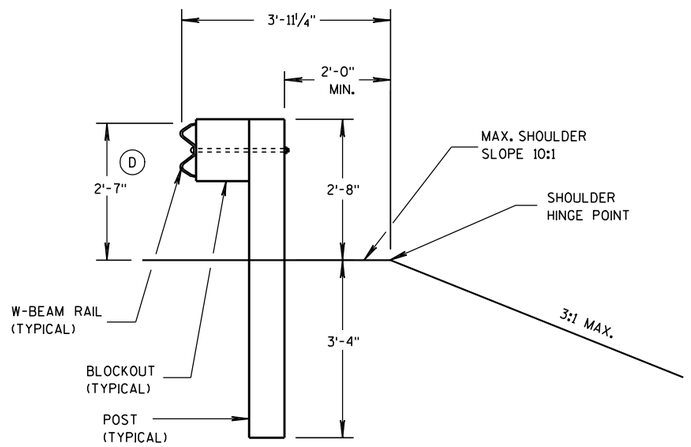
CRT WOOD POST



SECTION B-B

POSTS NO. 1-3

SEE OTHER DETAILS



SECTION A-A

POSTS NO. 4-8

SEE OTHER DETAILS

GENERAL NOTES

(D) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

MIDWEST GUARDRAIL SYSTEM
LONG SPAN MGS (L)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/31/2012
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

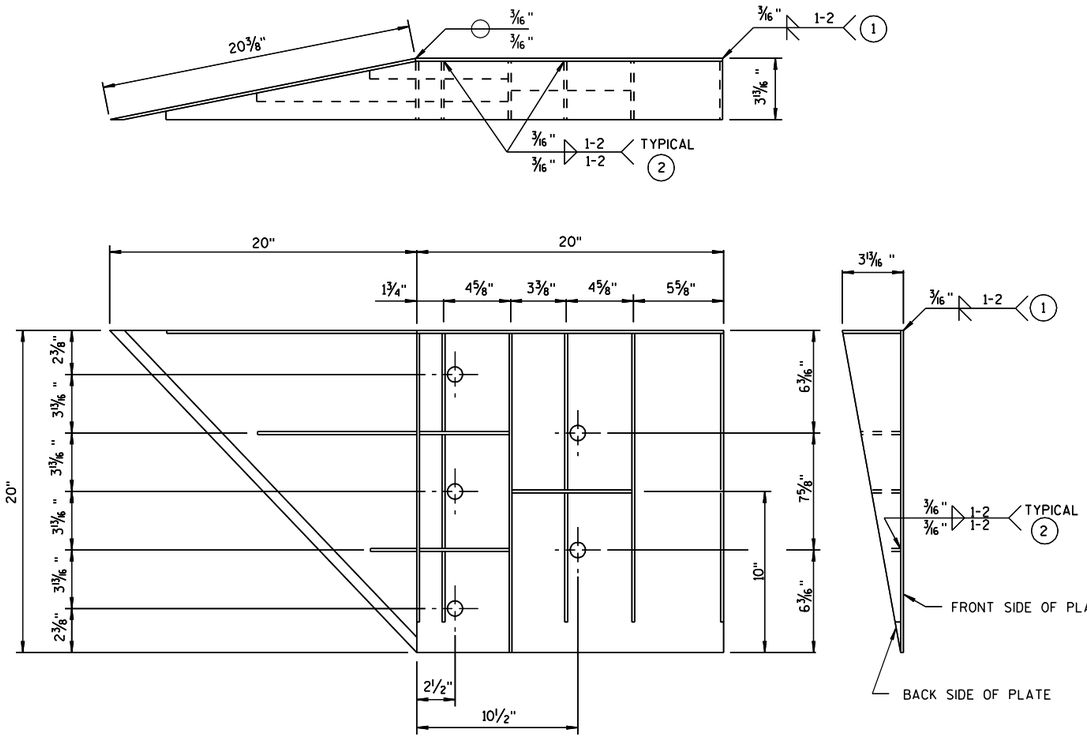
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S.D.D. 14 B 43-2c



WELDING INSTRUCTION

(VIEWED FROM BACK SIDE OF PLATE)

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".

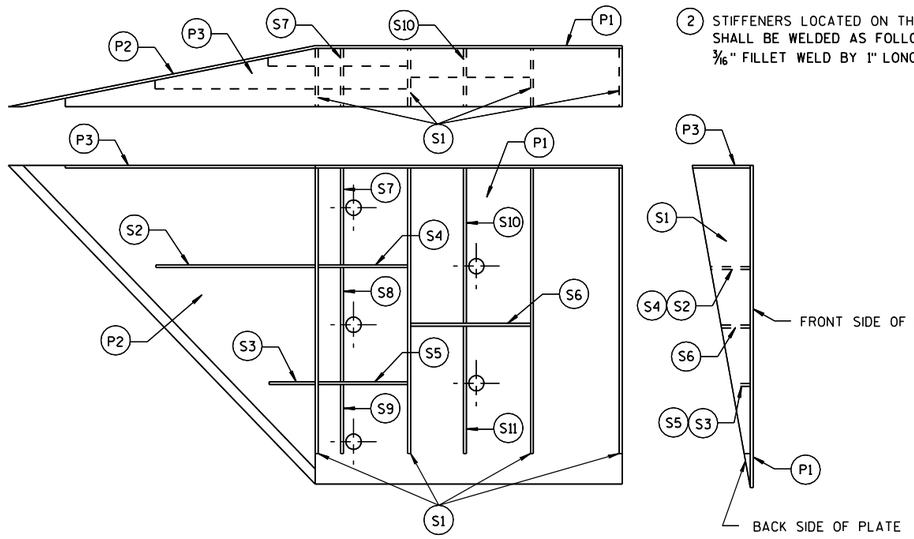


PLATE AND STIFFENER IDENTIFICATION

(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 28⁹⁄₁₆"	3/16"
P3	1		39" x 3⅝" x 20" x 19⁵⁄₁₆"	3/16"
S1	4		18⁷⁄₁₆" x 3⅜" x 18¾"	1/4"
S2	1		10¼" x 2⁷⁄₁₆" x 10⅜" x ½"	1/4"
S3	1		3" x 1¹⁄₁₆" x 3⅛" x ½"	1/4"
S4	1		6⅛" x 2⁷⁄₁₆"	1/4"
S5	1		6⅛" x 1¹⁄₁₆"	1/4"
S6	1		7¾" x 1¾"	1/4"
S7	1		2⁹⁄₁₆" x 6" x 3⅝" x 5⅞"	1/4"
S8	1		1³²⁄₃₂" x 7½" x 2½" x 7⅜"	1/4"
S9	1		6¹⁄₁₆" x 6³⁄₁₆" x 1³²⁄₃₂"	1/4"
S10	1		1⅞" x 9⅞" x 3⅝" x 9¹¹⁄₁₆"	1/4"
S11	1		8½" x 8¾" x 1¹³⁄₁₆"	1/4"

SINGLE SLOPE CONNECTION PLATE

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

2-8-2012
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

204

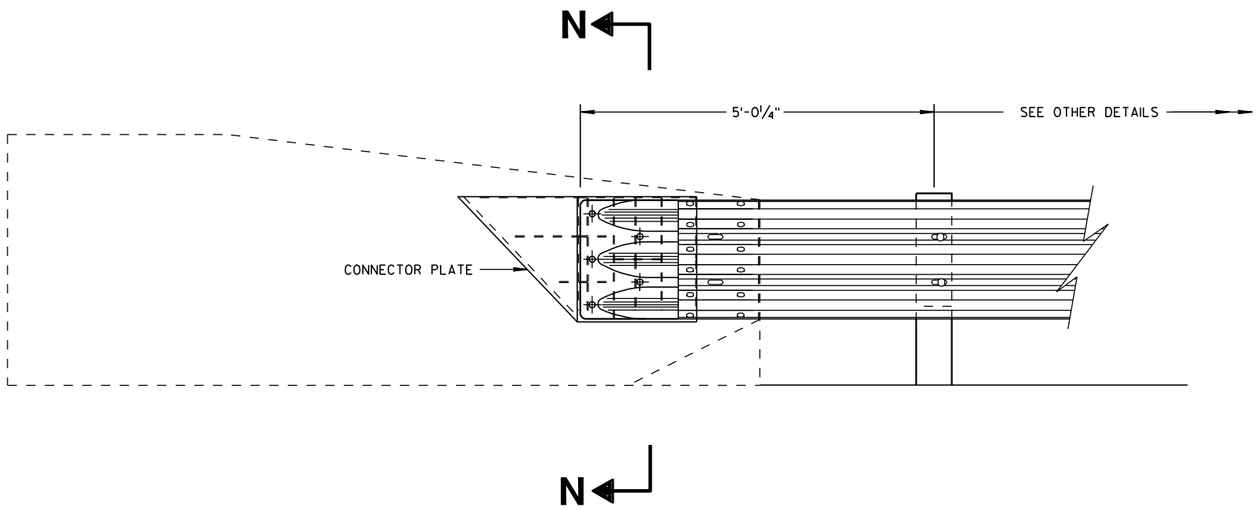
FHWA

6

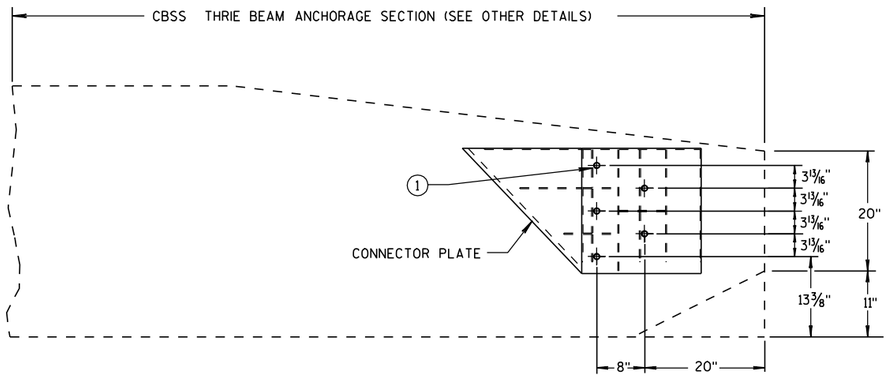
S.D.D. 14 B 45-2i

6

S.D.D. 14 B 45-2i



THRIE BEAM CONNECTION TO SINGLE SLOPE BARRIER

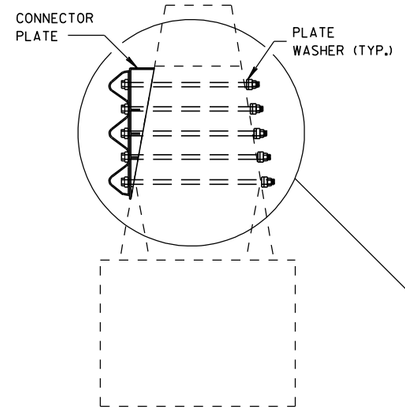


SINGLE SLOPE CONNECTION PLATE PLACEMENT

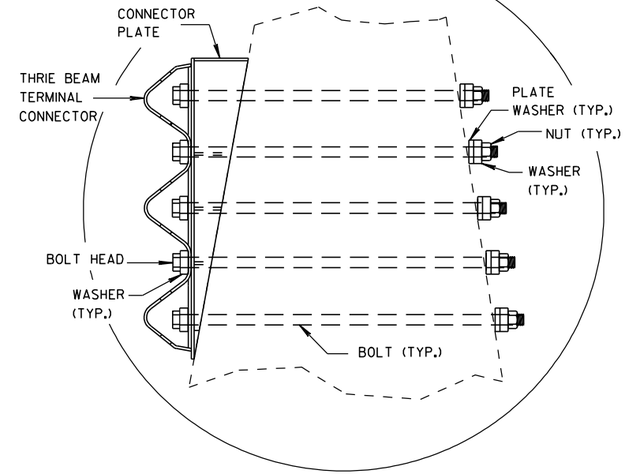
GENERAL NOTES

CONNECTION PLATE INCIDENTAL TO STEEL THRIE BEAM TRANSITION.

(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 5/8" 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

APPROVED

2-8-2012
DATE

/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER

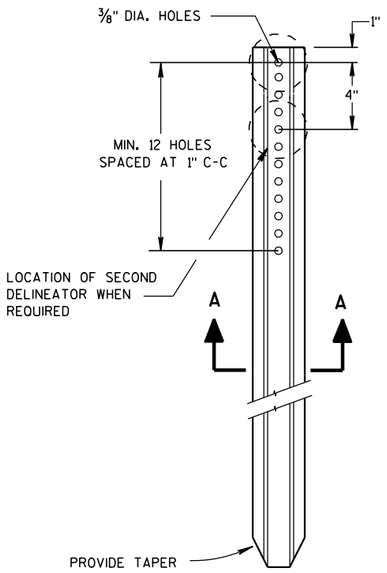
FHWA

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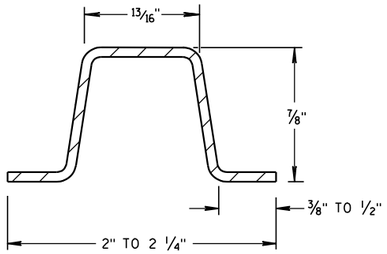
S.D.D. 14 B 45-2j

6

S.D.D. 14 B 45-2j

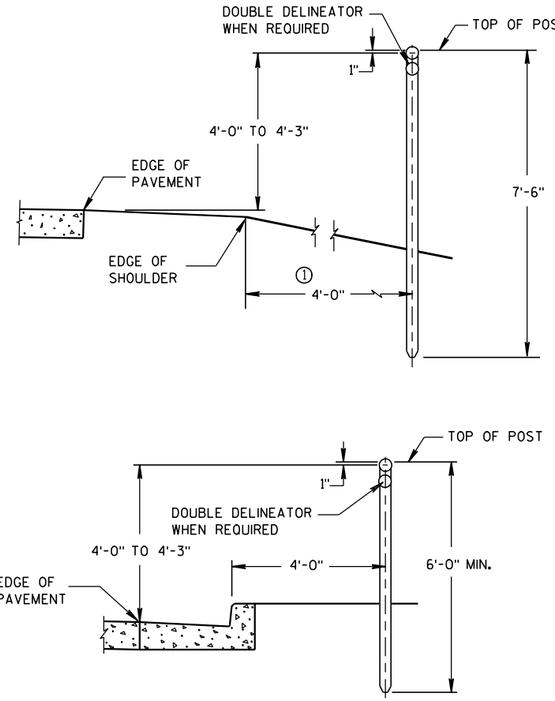


DELINEATOR POST



SECTION A-A

WEIGHT 1.12 LBS PER FT. ± 0.1 LB.

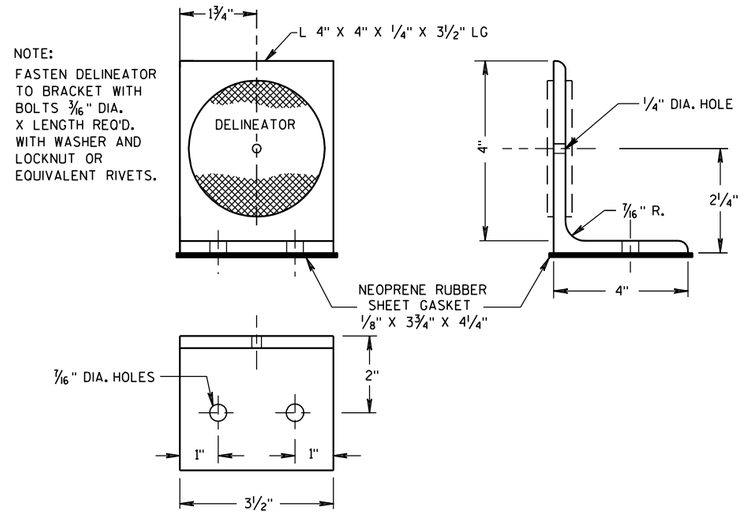


TYPICAL INSTALLATIONS OF DELINEATOR POSTS

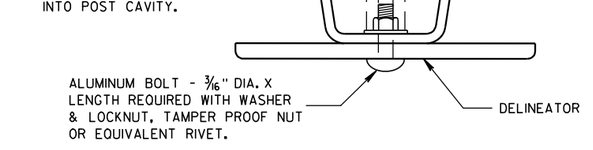
GENERAL NOTES

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

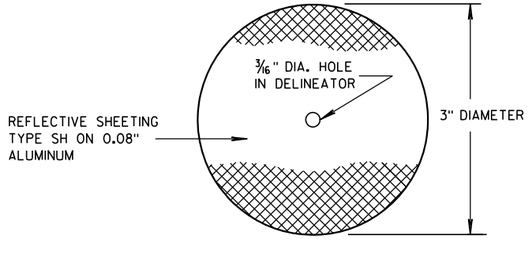
① DELINEATORS SHALL BE PLACED AT A CONSTANT DISTANCE FROM THE EDGE OF THE SHOULDER FOR THE LENGTH OF THE INSTALLATION.



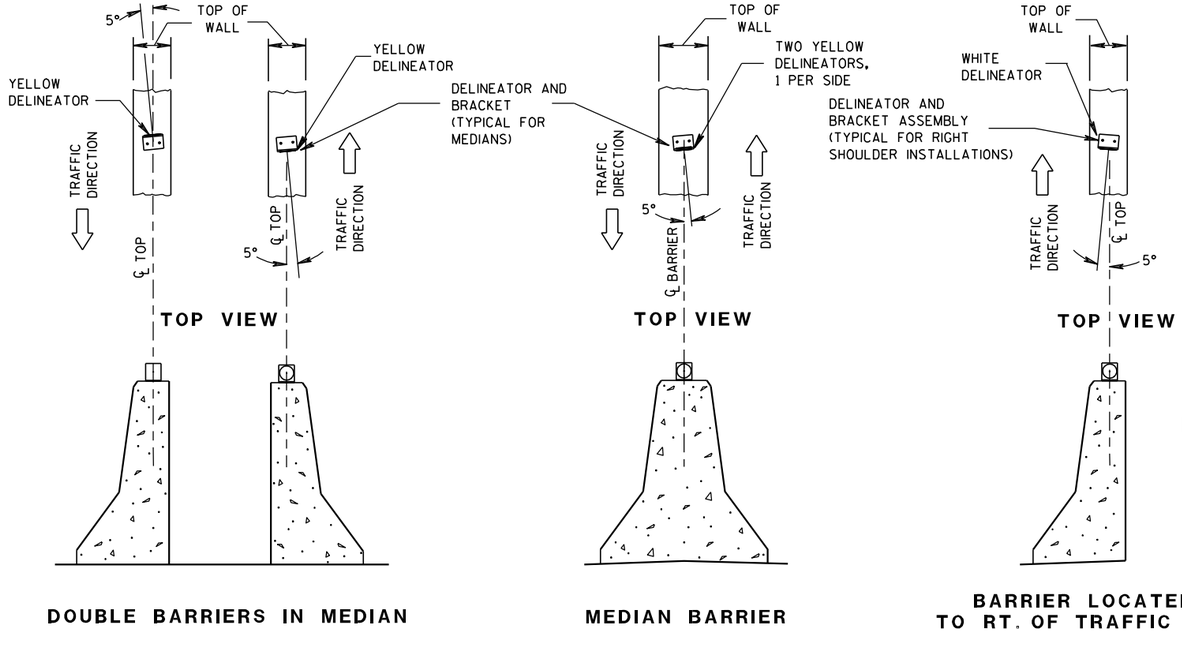
DELINEATOR BRACKET



MOUNTING DETAIL FOR DELINEATOR



DELINEATOR

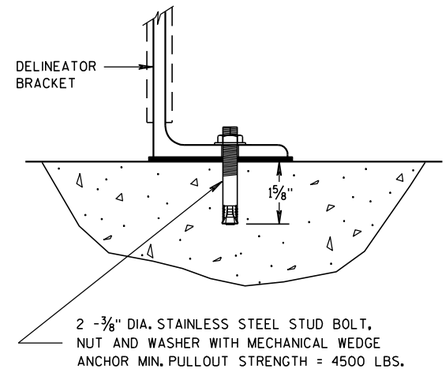


DOUBLE BARRIERS IN MEDIAN

MEDIAN BARRIER

BARRIER LOCATED TO RT. OF TRAFFIC FLOW

LOCATION AND AIMING DETAILS FOR DELINEATORS MOUNTED ON CONCRETE BARRIERS



DELINEATOR BRACKET MOUNTING DETAIL

DELINEATOR POST, DELINEATOR BRACKET AND DELINEATOR

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
1/25/2011 — DATE
/S/ Thomas N. Nothdurft — STATE TRAFFIC ENGINEER — DESIGN
FHWA

6

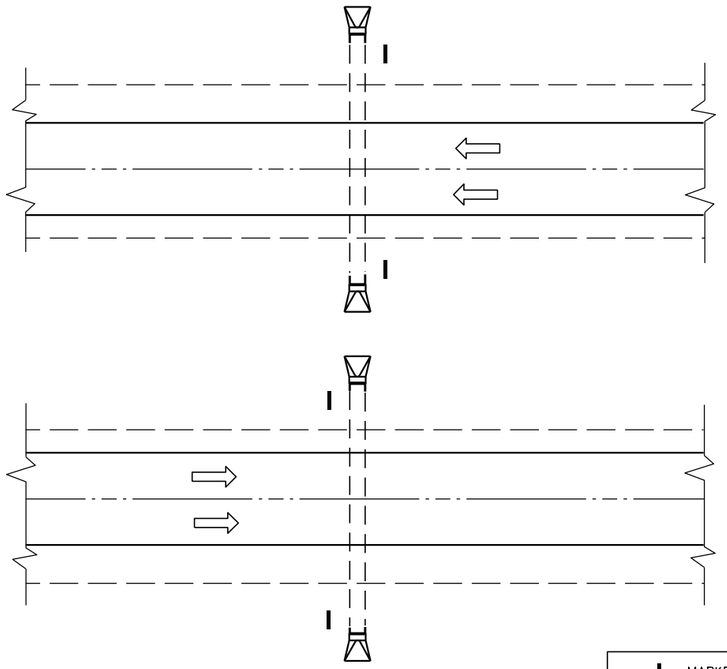
S.D.D. 15 A 2-7

6

S.D.D. 15 A 2-7

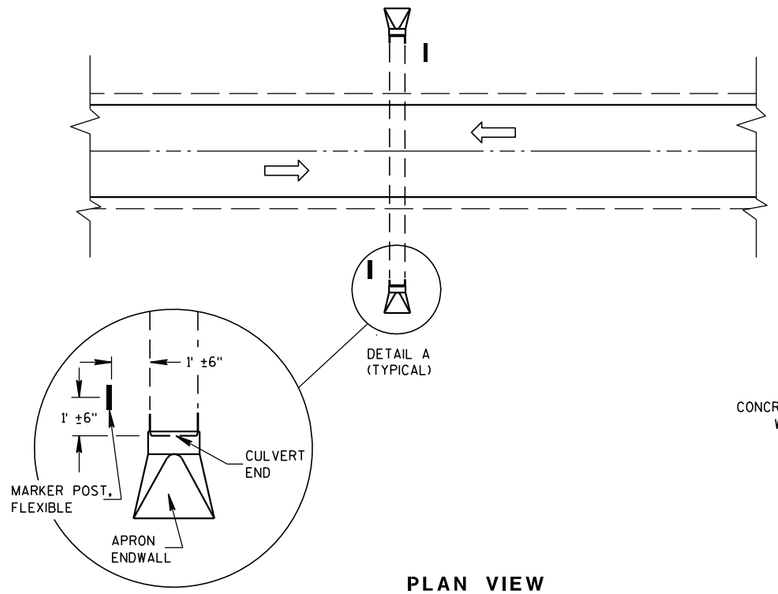
GENERAL NOTES

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

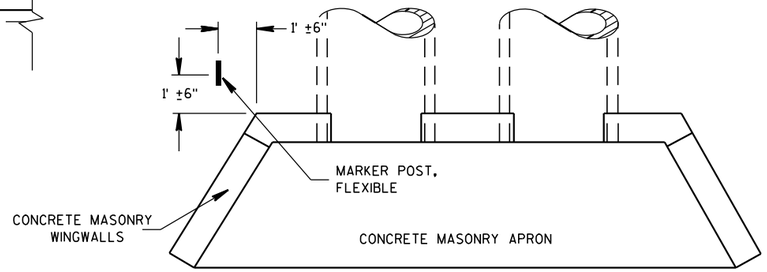
DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

UNDIVIDED HIGHWAY

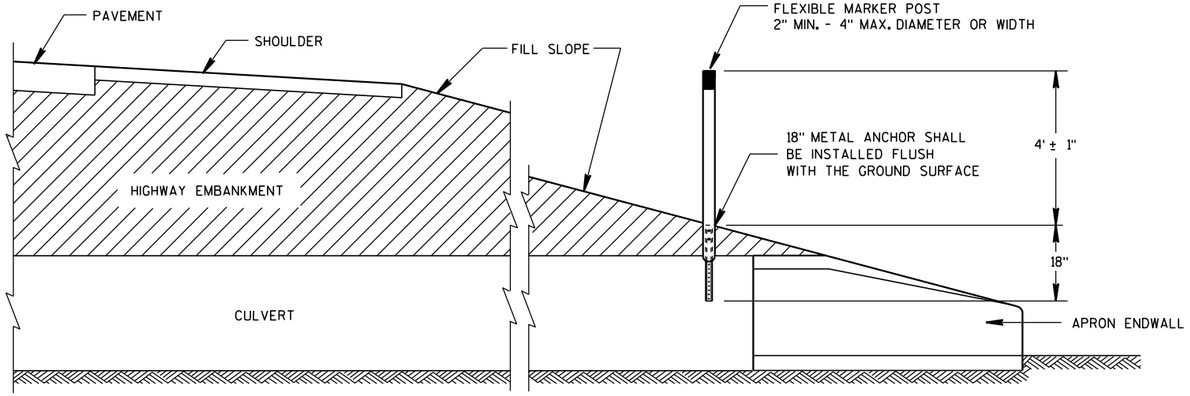


PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

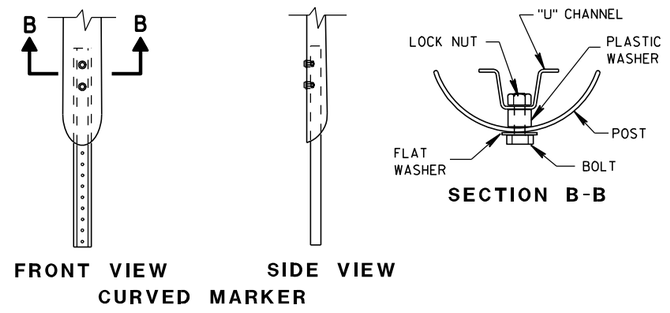
MARKER POST, FLEXIBLE
DIRECTION OF TRAFFIC FLOW

FLEXIBLE MARKER POST LOCATION

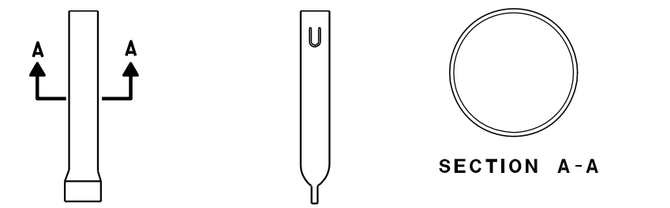


CROSS SECTION

FLEXIBLE MARKER POST

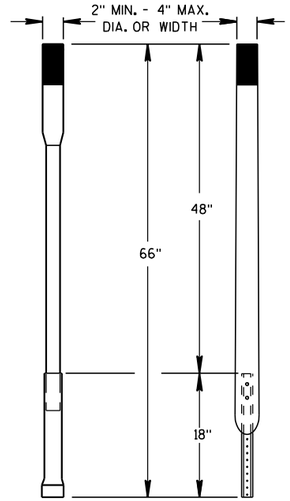


FRONT VIEW SIDE VIEW
CURVED MARKER



FRONT VIEW SIDE VIEW
ROUND MARKER

FLEXIBLE MARKER POST ANCHORS



ALTERNATE 1 ALTERNATE 2

FLEXIBLE MARKER POST

MARKER POST, FLEXIBLE, FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/1/98 DATE

/S/ Rory L. Rhinesmith
CHEIF ROADWAY DEVELOP 207 INEER

FHWA

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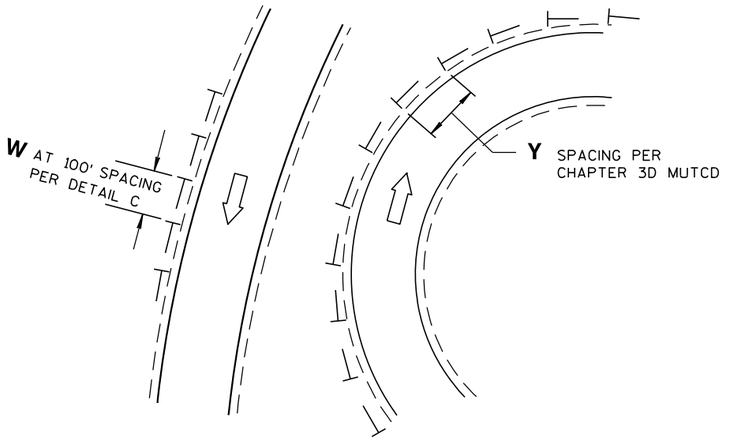
S.D.D. 15 A 3-1

6

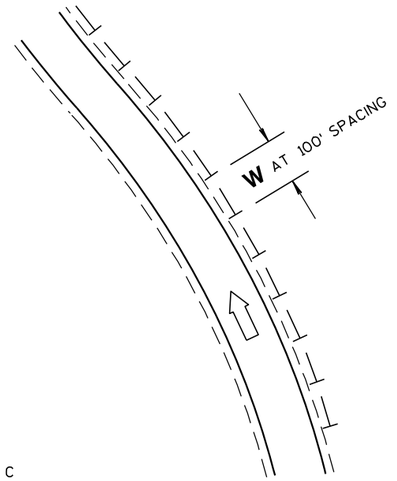
S.D.D. 15 A 3-1

GENERAL NOTES

* USE DOUBLE DELINEATOR ALONG ACCELERATION-DECELERATION LANES AND TAPERS. USE SINGLE DELINEATOR WHEN RAMP PAVEMENT IS FULL WIDTH.



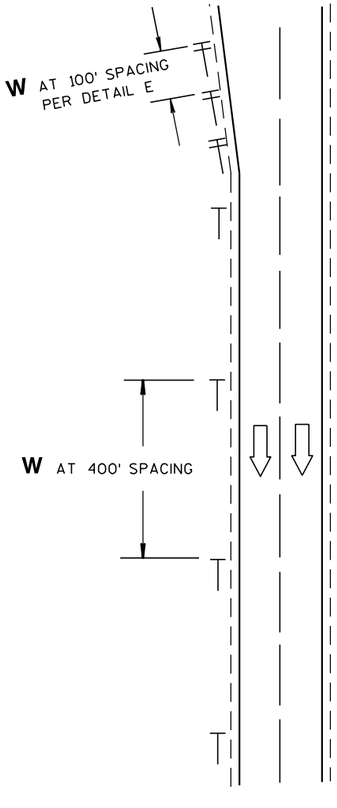
DETAIL A
DELINEATOR LAYOUT AT CURVED RAMP



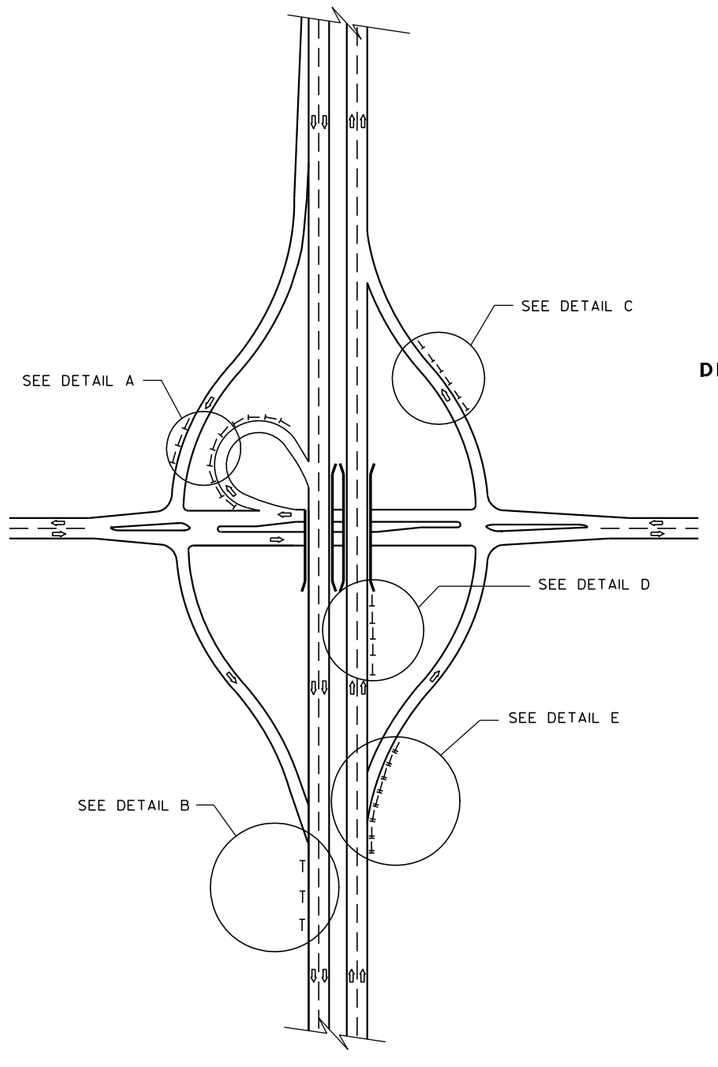
DETAIL C
DELINEATOR LAYOUT ALONG RAMP

LEGEND

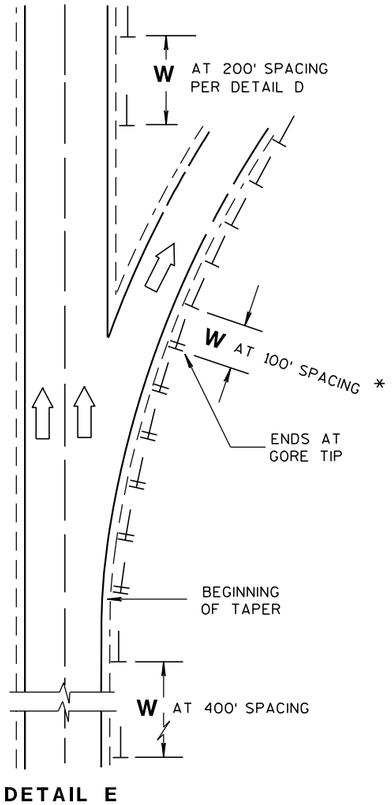
- DIRECTION OF TRAFFIC FLOW
- SINGLE DELINEATOR
- DOUBLE DELINEATOR
- W — WHITE
- Y — YELLOW



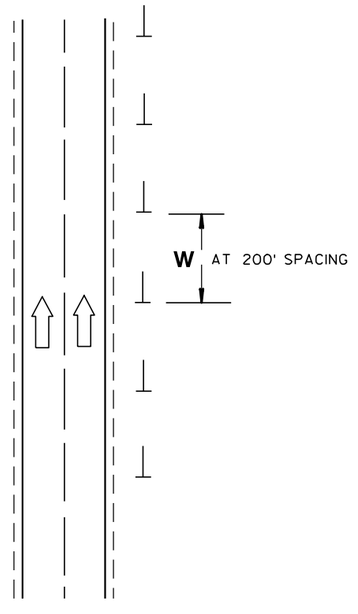
DETAIL B
DELINEATOR LAYOUT ALONG MAINLINE



DELINEATOR LAYOUT



DETAIL E
DELINEATOR LAYOUT FOR ACCELERATION - DECELERATION LANES AND TAPERS AT RAMPS



DETAIL D
DELINEATOR LAYOUT BETWEEN INTERCHANGE RAMPS

DELINEATOR LAYOUT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
2/5/09 DATE
/S/ Thomas N. Nothdurft STATE TRAFFIC ENGINEER
FHWA

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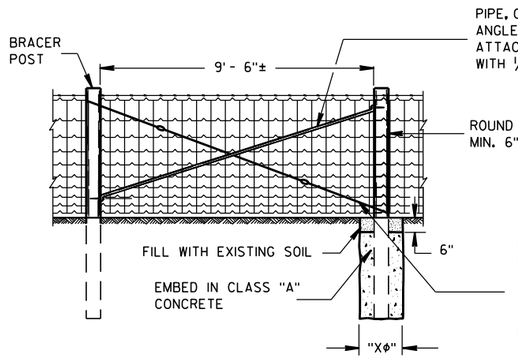
S.D.D. 15 A 6-2

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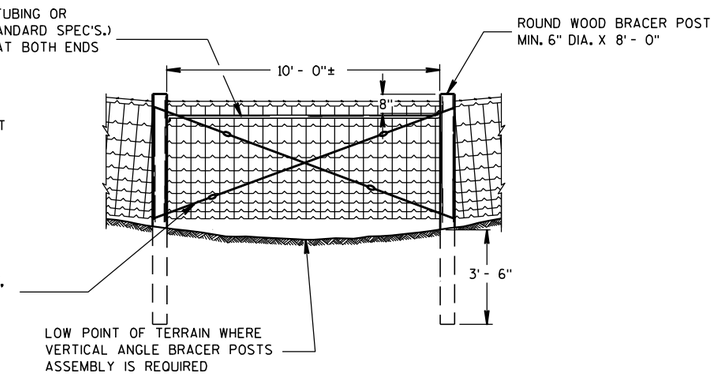
S.D.D. 15 A 6-2

NOTE: PULL OR STRETCHER POST ASSEMBLIES SHALL BE PLACED MIDWAY BETWEEN END POSTS AND CORNER POSTS WHERE A RUN OF FENCE EXCEEDS 660' BUT IS LESS THAN 1,320'. FOR RUNS OF FENCE IN EXCESS OF 1,320' MAXIMUM SPACING OF PULL OR STRETCHER POST ASSEMBLIES SHALL BE 660'± C-C.

ILLUSTRATION SHOWS POSITION OF STANDARD STEEL BRACE, DOUBLE STRAND GALVANIZED WIRE, AND THE POST TO BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM LEFT TO RIGHT. THE BRACES SHALL BE POSITIONED ON THE OPPOSITE DIAGONALS AND THE OPPOSITE POST SHALL BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM RIGHT TO LEFT.



PULL OR STRETCHER POSTS ASSEMBLY



VERTICAL ANGLE BRACER POSTS ASSEMBLY

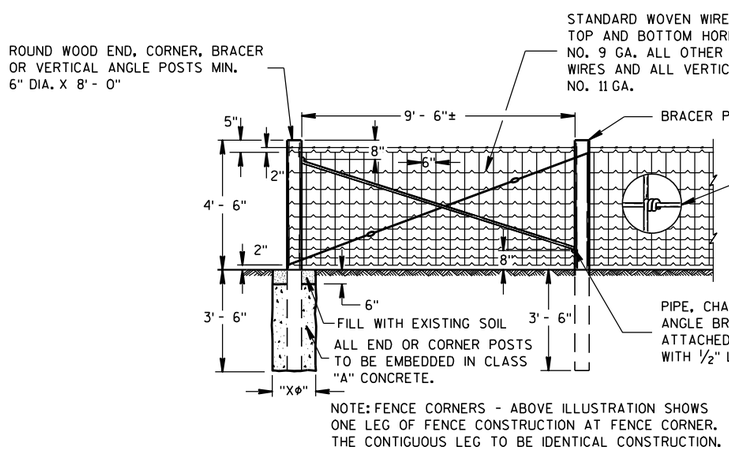
GENERAL NOTES

"XΦ" = DIAMETER OF THE POST PLUS 12".

FENCE STAPLES SHOULD NEVER BE DRIVEN VERTICALLY INTO WOOD POSTS (WITH BOTH LEGS PARALLEL WITH THE WOOD GRAIN). DOING SO CAN SEPARATE THE GRAIN AND SIGNIFICANTLY REDUCE THE HOLDING POWER. ROTATING THE STAPLES SLIGHTLY OFF VERTICAL STRADDLES THE GRAIN AND PROVIDES MORE RESISTANCE TO PULL-OUT.

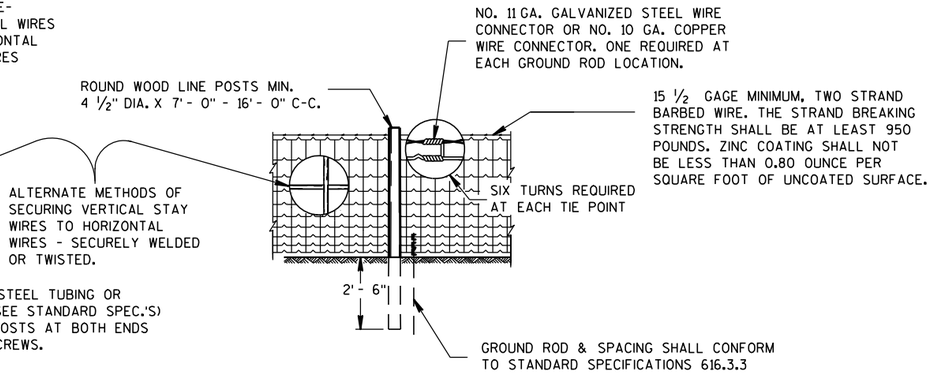
DO NOT STAPLE WIRE TIGHT TO THE LINE POSTS. ALLOW MOVEMENT OF WIRE FOR EXPANSION AND CONTRACTION. STAPLE ARRANGEMENT SHALL BE THE SAME FOR ALL OTHER POSTS EXCEPT THAT THEY SHALL BE DRIVEN TIGHT TO POSTS. ALL STAPLES SHALL BE 2" X 9 GAGE AND SHALL BE MANUFACTURED FROM GALVANIZED WIRE OR HOT DIP GALVANIZED AFTER FORMING. STAPLES SHALL HAVE SLASH-CUT POINTS.

FENCE SHALL BE LOCATED 3'-0" INSIDE THE RIGHT OF WAY LINE UNLESS OTHERWISE INDICATED ON THE PLANS.



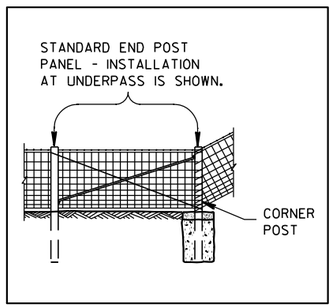
NOTE: FENCE CORNERS - ABOVE ILLUSTRATION SHOWS ONE LEG OF FENCE CONSTRUCTION AT FENCE CORNER. THE CONTIGUOUS LEG TO BE IDENTICAL CONSTRUCTION.

END OR CORNER POSTS ASSEMBLY

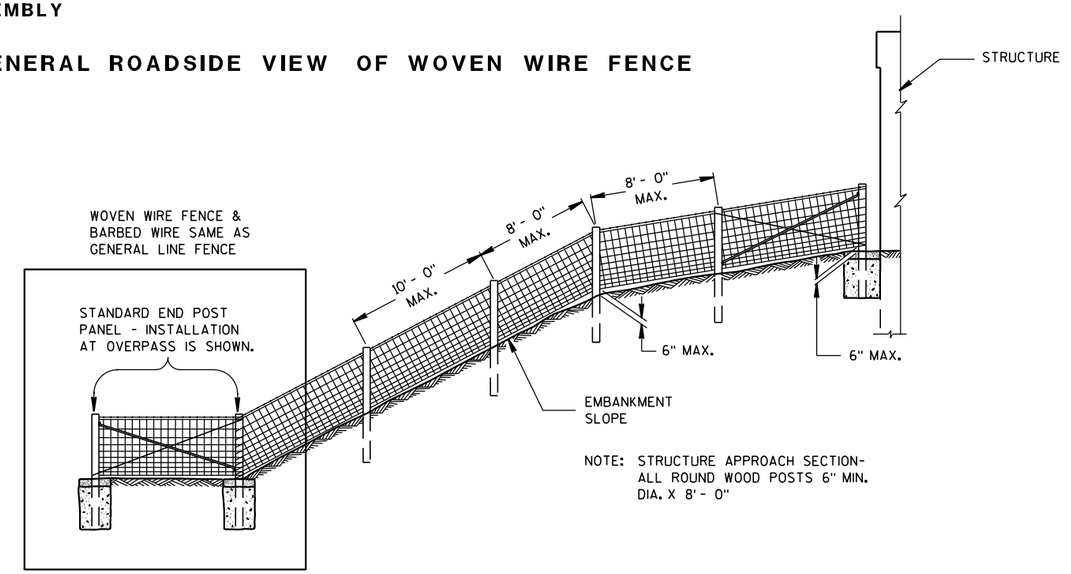


LINE FENCE CONSTRUCTION

GENERAL ROADSIDE VIEW OF WOVEN WIRE FENCE



ALTERNATE FENCE DESIGN AT STRUCTURE



NOTE: STRUCTURE APPROACH SECTION- ALL ROUND WOOD POSTS 6" MIN. DIA. X 8' - 0"

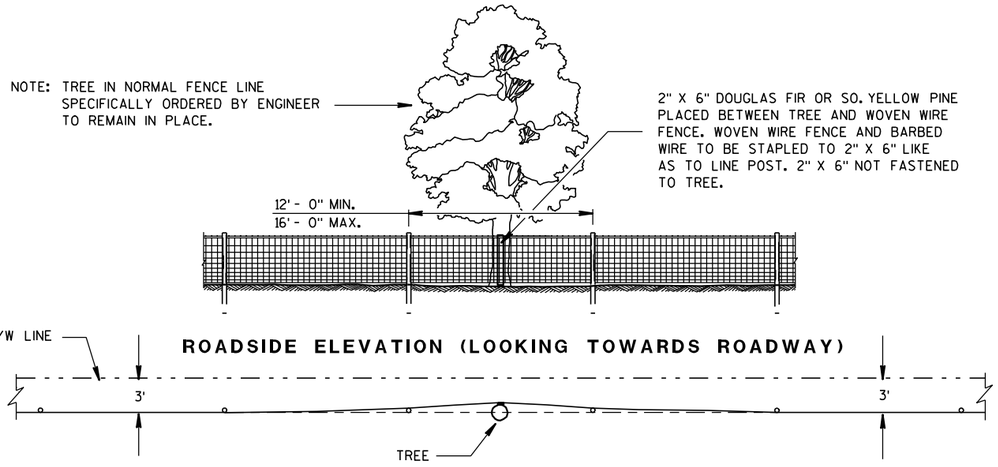
FENCE DESIGN AT STRUCTURE APPROACH

FENCE WOVEN WIRE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

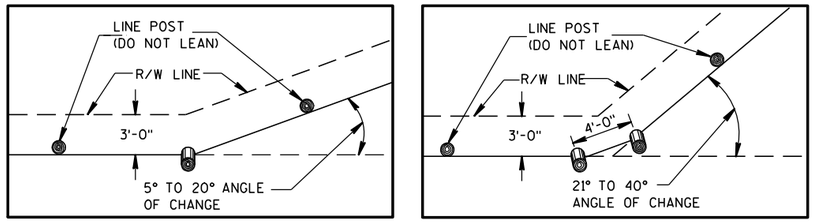
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S.D.D. 15 B 1-8a



PLAN VIEW

FENCE DESIGN AT TREES REMAINING IN NORMAL FENCE LINE



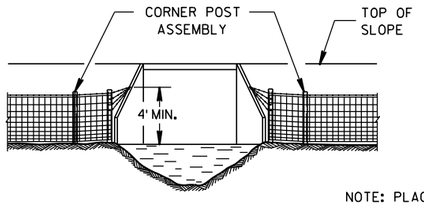
PLAN VIEW
SINGLE POST CORNER

PLAN VIEW
DOUBLE POST CORNER

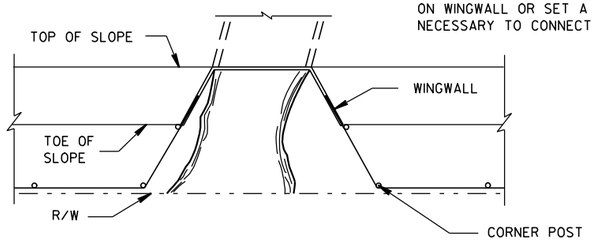
RIGHT OF WAY LINE CHANGE 40° AND LESS

NOTE: SINGLE AND DOUBLE POSTS SHALL BE A MIN. 6" DIA. X 8'-0" WITH A LEAN OF 4" TOWARD THE OUTSIDE OF THE CURVE.

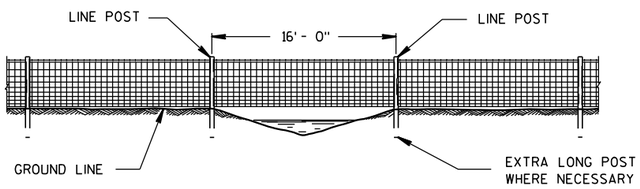
WHEN THE RIGHT OF WAY LINE CHANGE IS MORE THAN 40° USE THE CORNER OR STRETCHER POSTS ASSEMBLY.



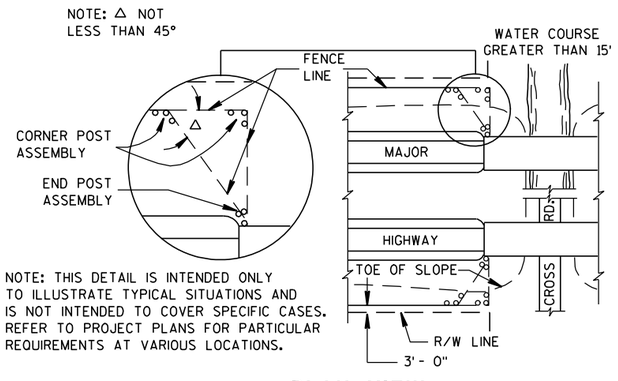
NOTE: PLACE A MINIMUM OF 4 STRANDS OF BARBED WIRE, 6" MAXIMUM CENTERS IN FAN SHAPE CONNECTED TO AN EYE BOLT ON WINGWALL OR SET A LONE POST WHEN NECESSARY TO CONNECT BARBED WIRE.



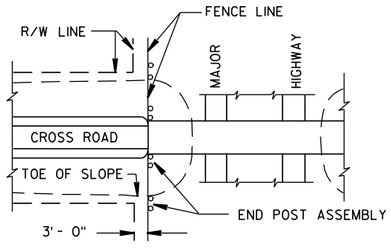
FENCE INSTALLATION TO WINGWALLS



FENCE CONSTRUCTION OVER STREAM COURSES OF 15 FT. OR LESS IN WIDTH



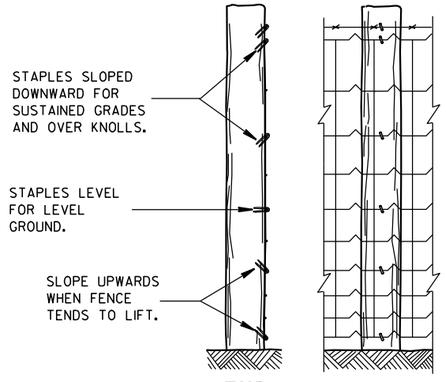
PLAN VIEW
MAJOR HIGHWAY OVERPASS OR STREAM COURSE CROSSING OF GREATER THAN 15 FT. IN WIDTH



PLAN VIEW
MAJOR HIGHWAY UNDERPASS

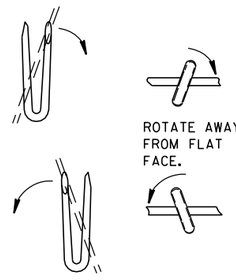
FENCE LOCATION AT STRUCTURES

NOTE: WHEN POSTS ARE DRIVEN THE SMALL END SHALL BE DOWN.



END ELEVATION **FARM SIDE ELEVATION**

FENCE MOUNTING DETAIL

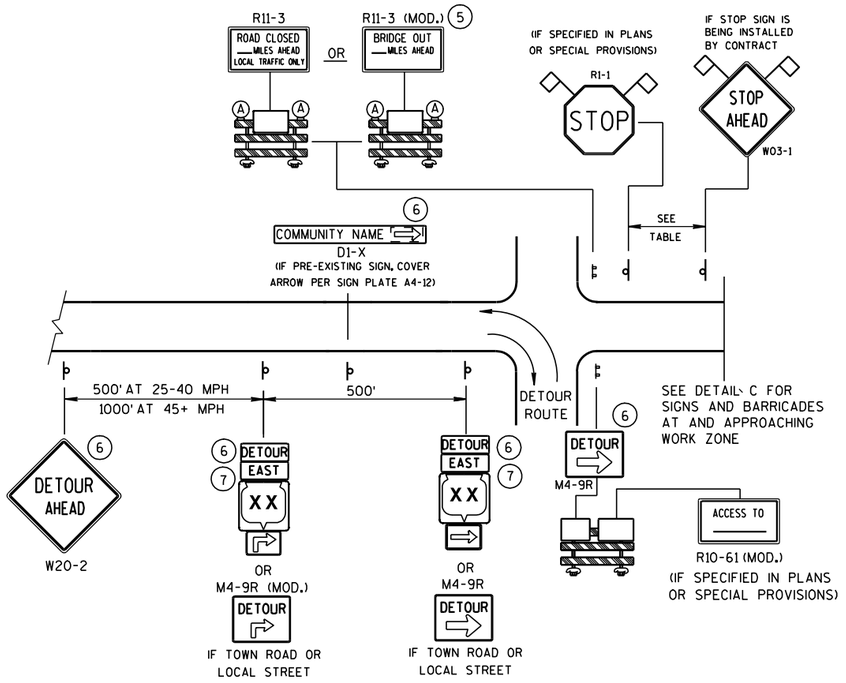


LINE POST

FENCE WOVEN WIRE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

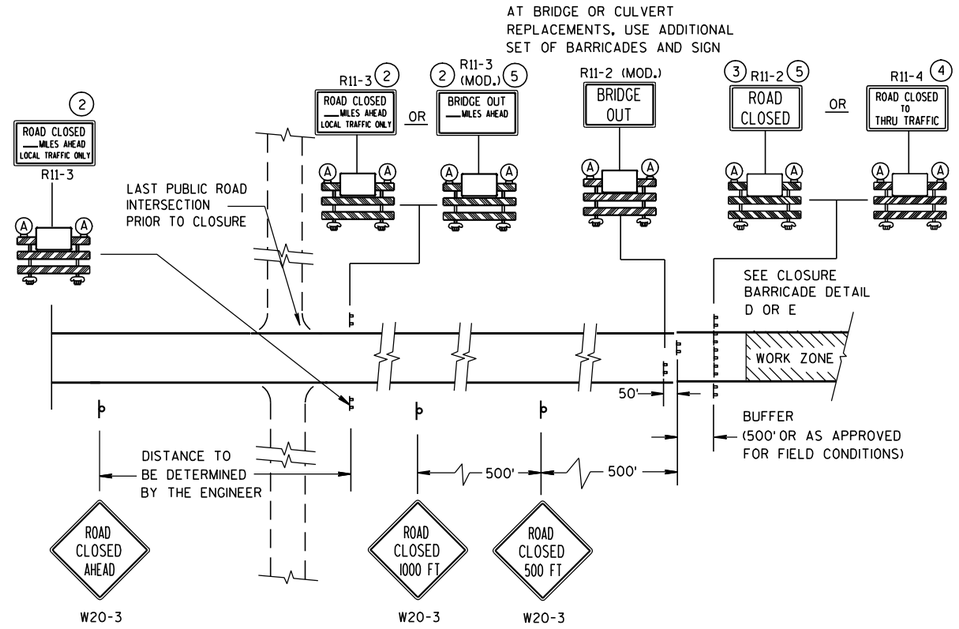
APPROVED
4/4/2008
DATE
/S/ Jerry H. Zinn
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA



DETAIL A

MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

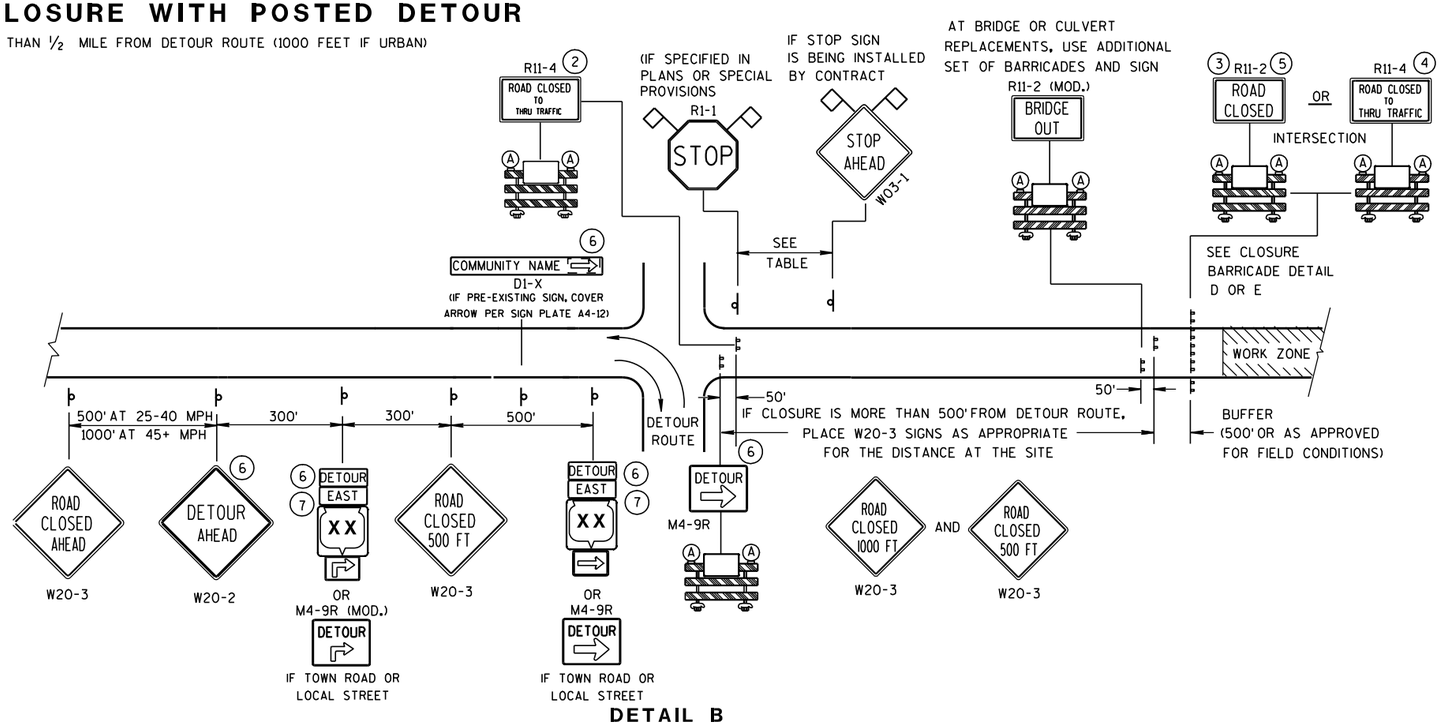


DETAIL C

MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-4b
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦



DETAIL B

MAINLINE CLOSURE WITH POSTED DETOUR

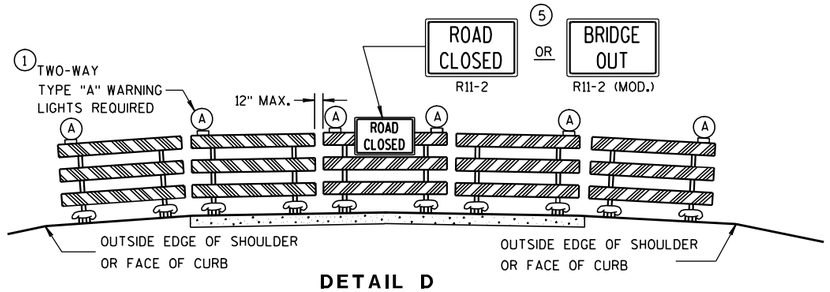
WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

LEGEND

- POST MOUNTED SIGN
- TYPE III BARRICADES
- (A) TYPE "A" LOW INTENSITY FLASHING WARNING LIGHT (FOR NIGHT USE)
- WORK ZONE
- DETOUR / EAST — M4-8 / M3-X
- XX — M1-4; COUNTY XX — M1-5A; XX — M1-6
- M05-1; M06-1
- FLAGS, 16" X 16" MIN., (ORANGE)

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

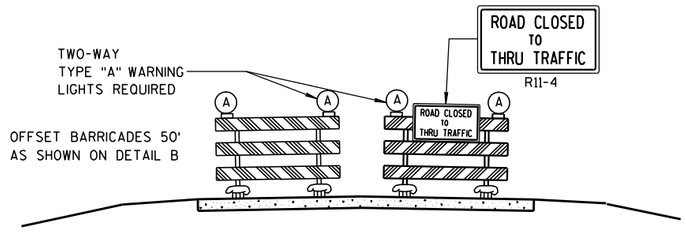
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



DETAIL D

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E

LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

SEE SDD 15C2-4a FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

THE REFLECTIVE SHEETING USED ON R11-2, R11-3, R11-4, R10-61 AND R1-1 SIGNS SHALL COMPLY WITH SUBSECTION 637.2.2.2 OF THE STANDARD SPECIFICATIONS.

"WO AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11-2 SHALL BE 48" X 30".
- R11-3, R11-4 AND R10-61 SHALL BE 60" X 30".
- M4-9 SHALL BE 30" X 24".
- M3-X AND M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1-1 SHALL BE 36" X 36".

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT LIGHT SPACING).

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

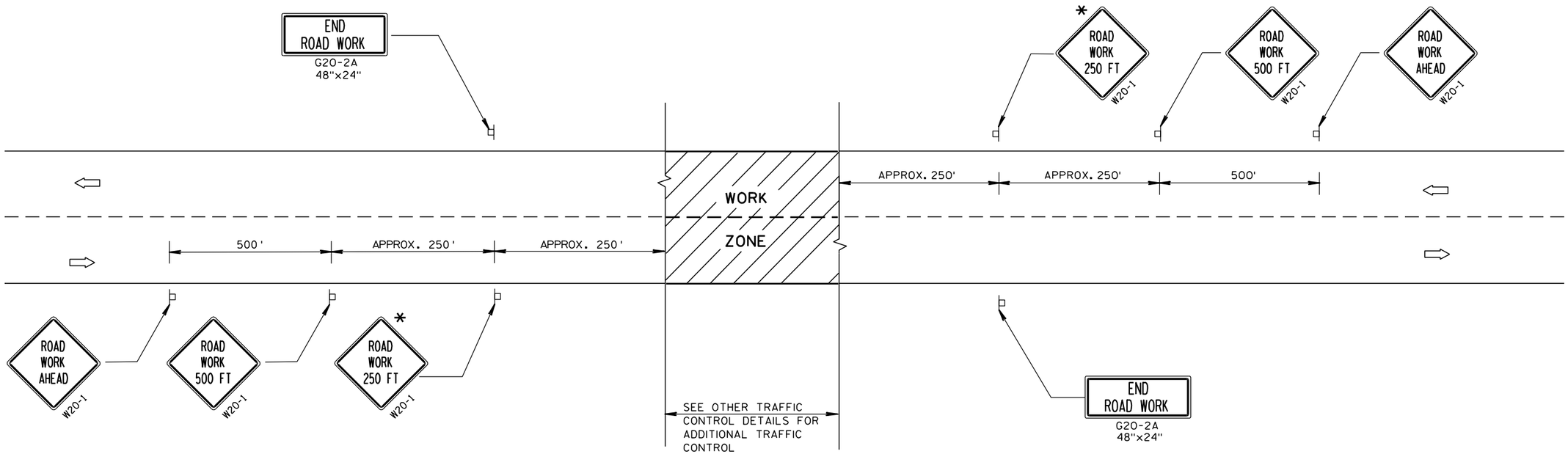
9/16/03 — DATE

/S/ Thomas N. N[illegible] — CHIEF SIGNS AND MARKING ENGINEER

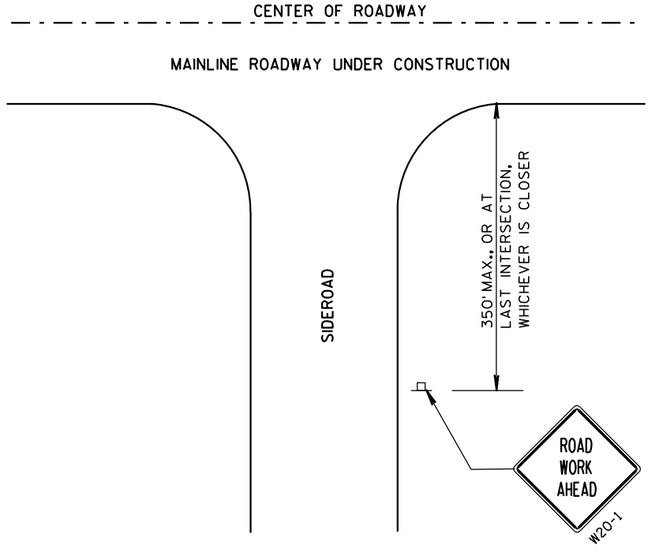
FHWA

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S.D.D. 15 C 2-4b



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS, IF APPROVED BY DISTRICT TRAFFIC UNIT.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.

LEGEND

POST MOUNTED SIGN

DIRECTION OF TRAFFIC FLOW

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/23/00
DATE

/S/ Chester J. [illegible]
CHIEF SIGNS AND MARKING ENGINEER

FHWA

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S.D.D. 15 C 5-1

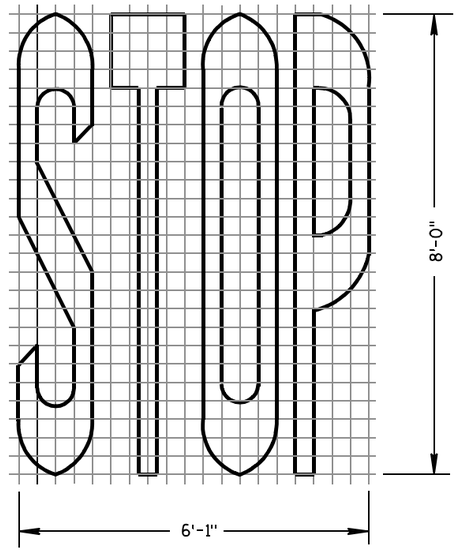
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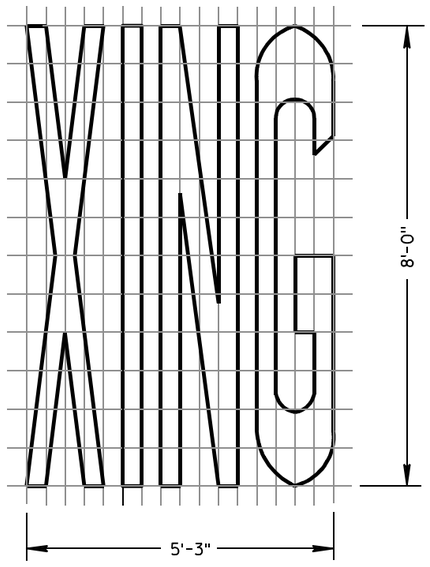
S.D.D. 15 C 5-1

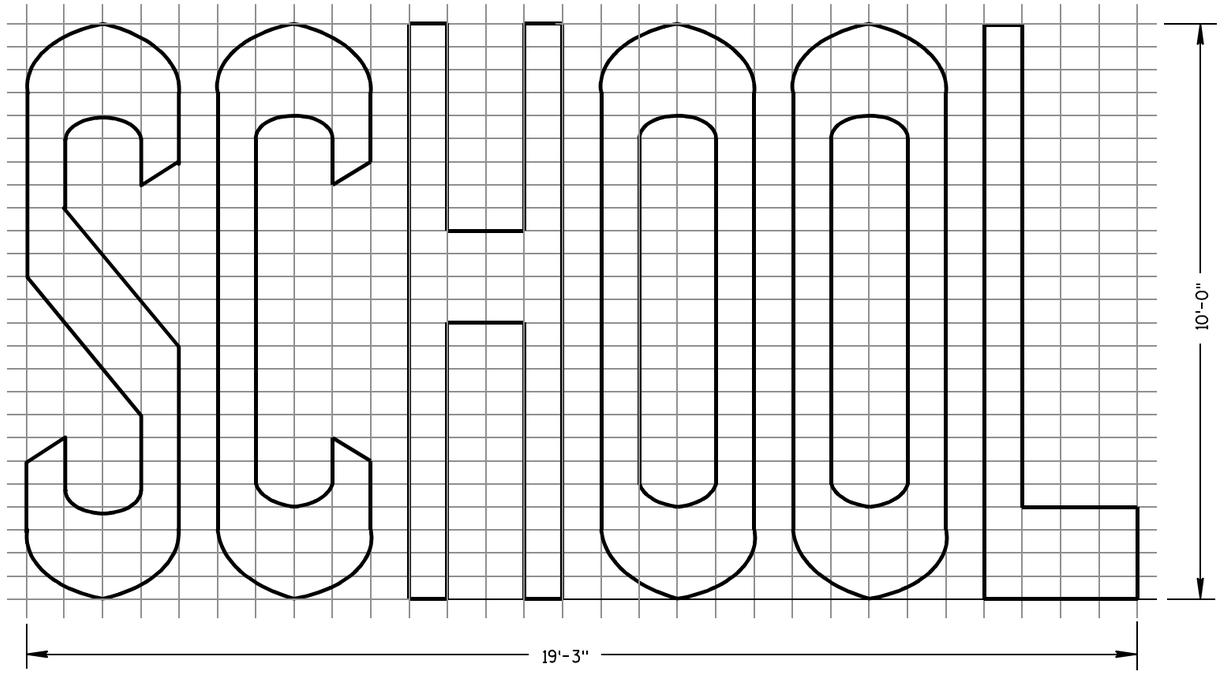
GENERAL NOTES

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

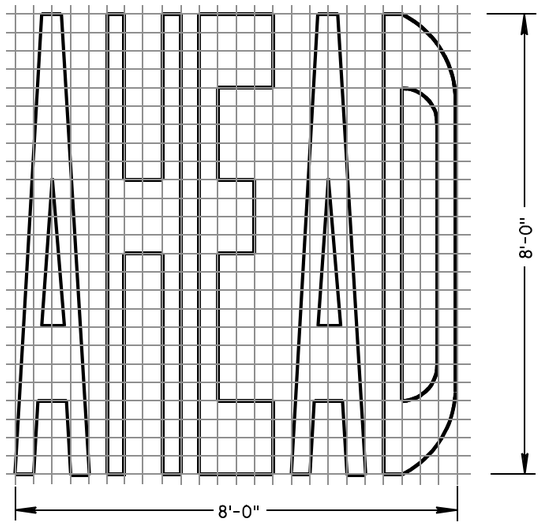
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.

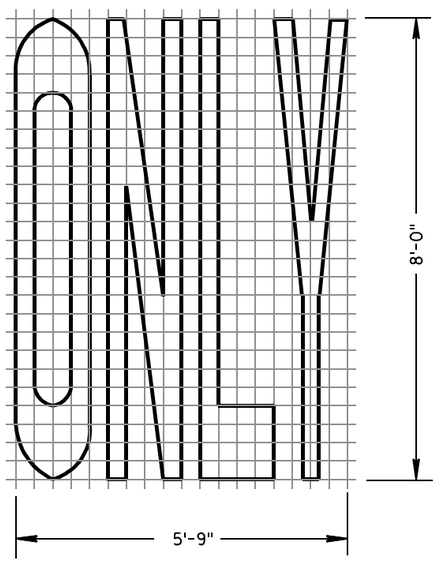


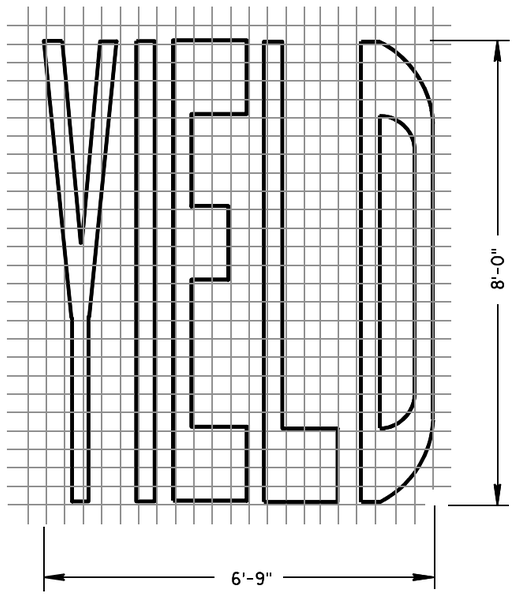


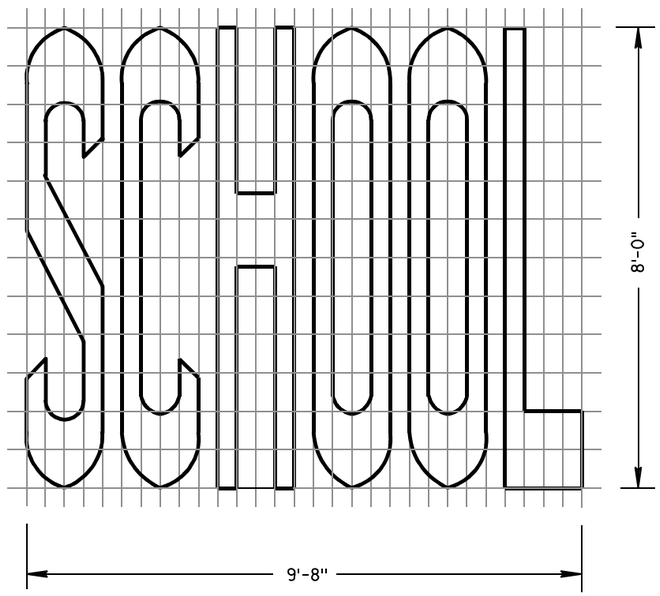


TWO-LANE









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

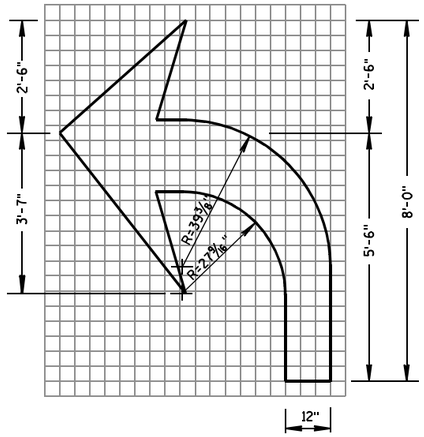
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S.D.D. 15 C 7-12b

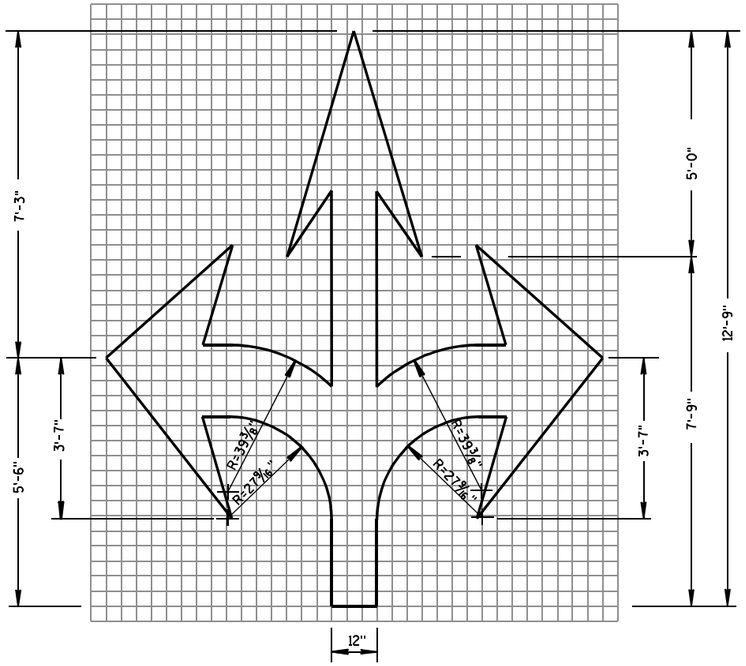
GENERAL NOTES

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

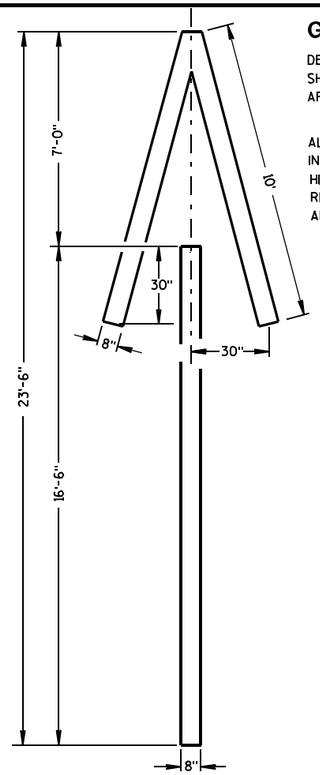
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.



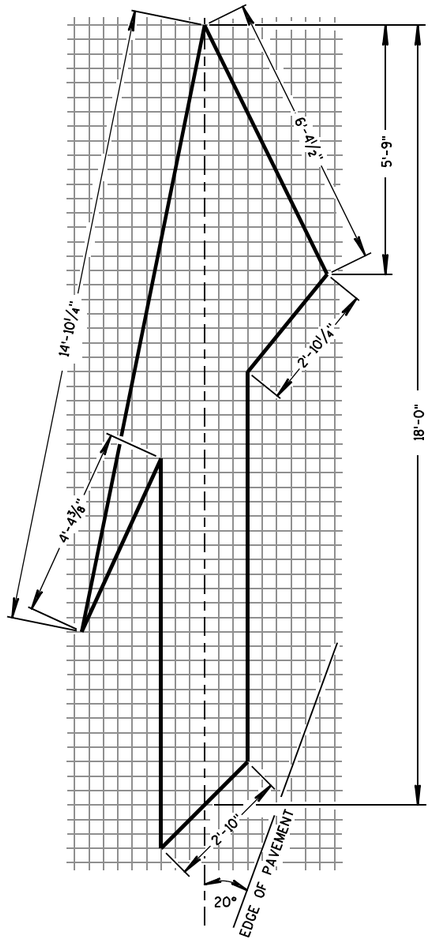
TYPE 2



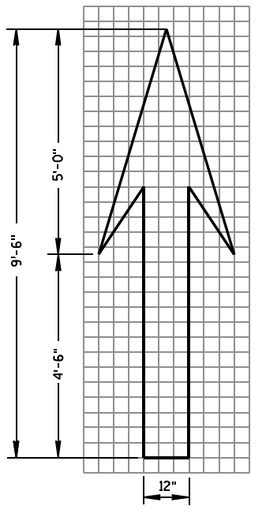
TYPE 6



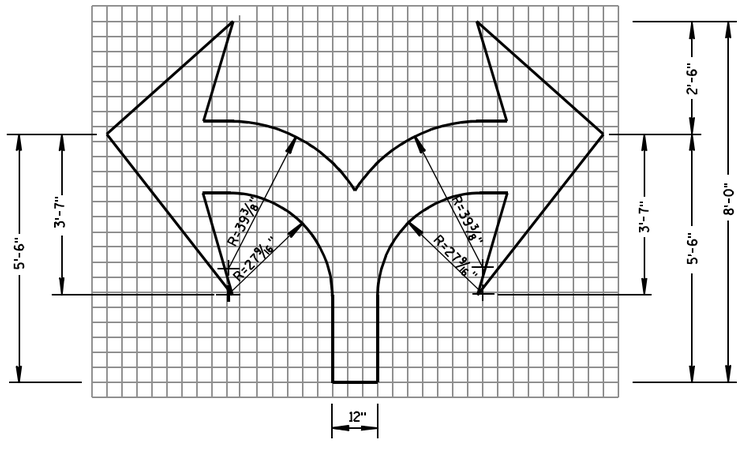
TYPE 4



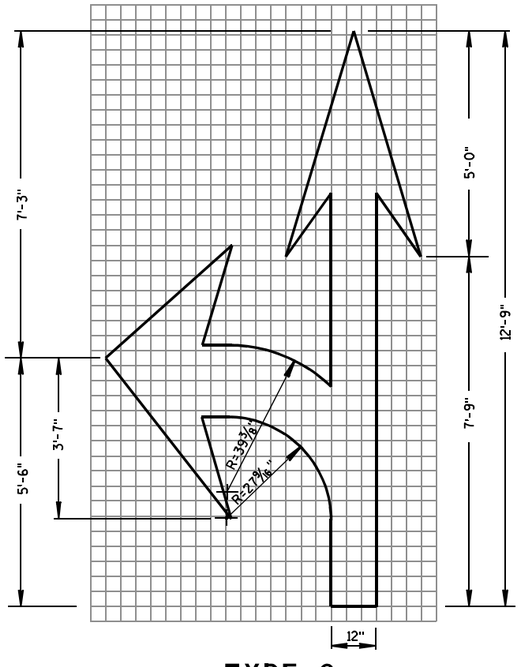
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

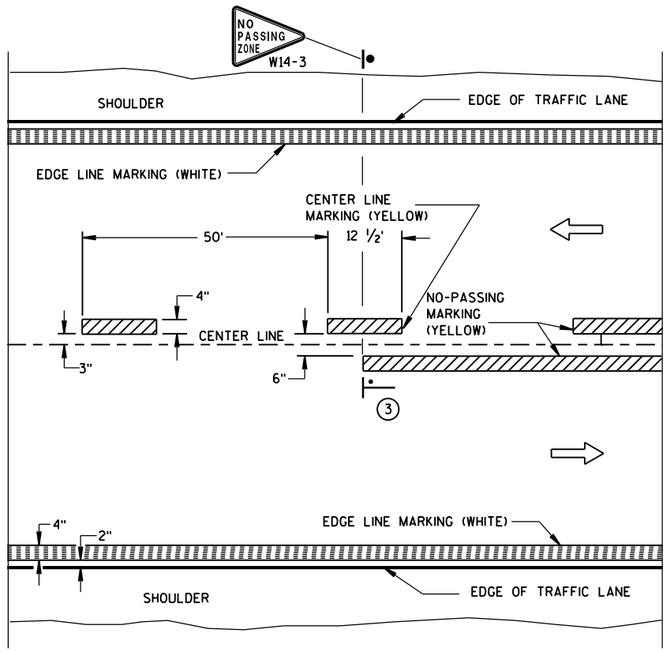
7/1/11 — DATE

/S/ Thomas N. Nathaam — STATE TRAFFIC ENGINEER

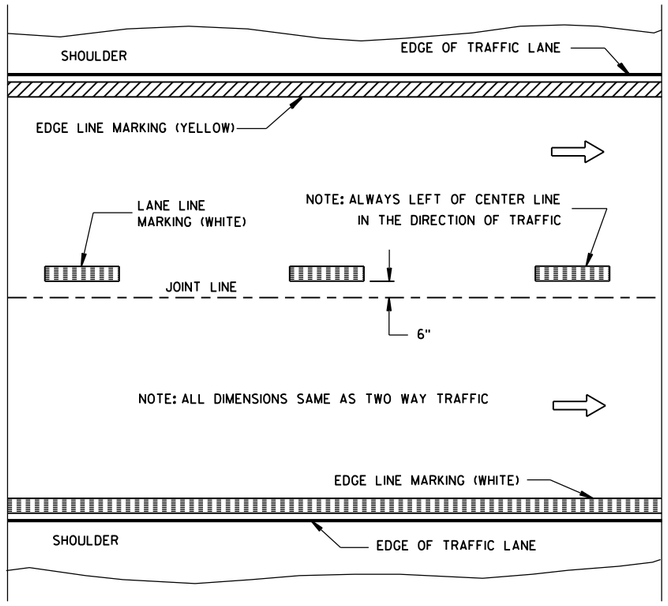
FHWA

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S.D.D. 15 C 7-12c

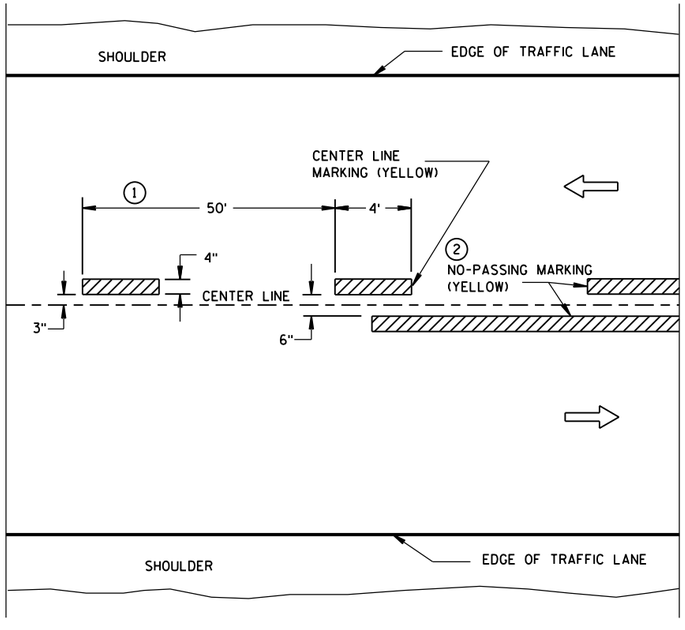


TWO WAY TRAFFIC

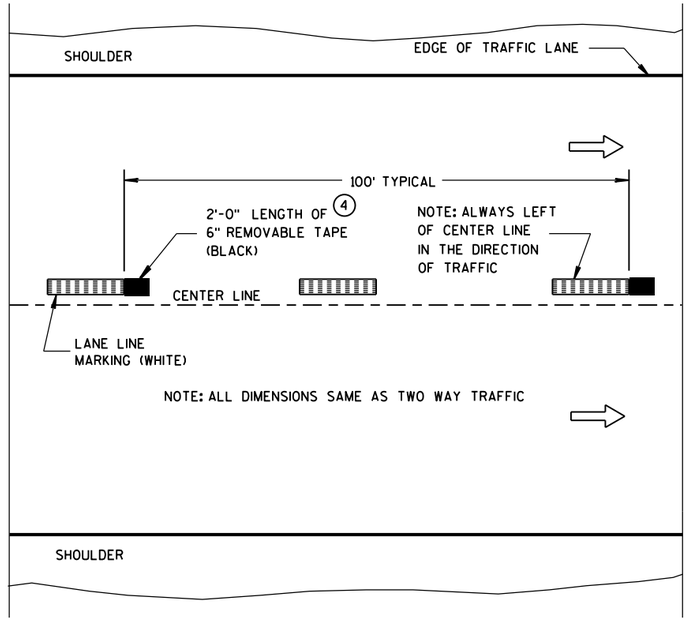


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING

(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

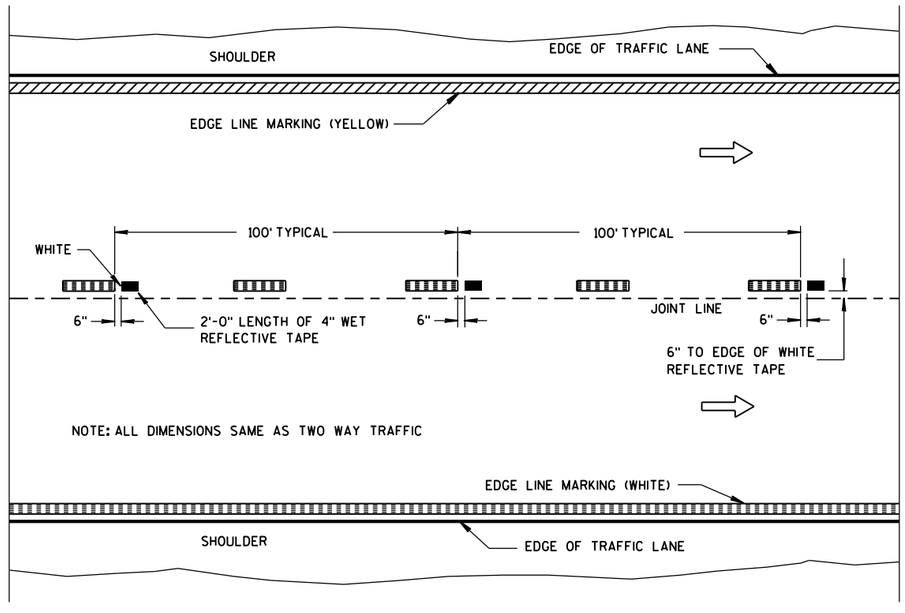
GENERAL NOTES

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

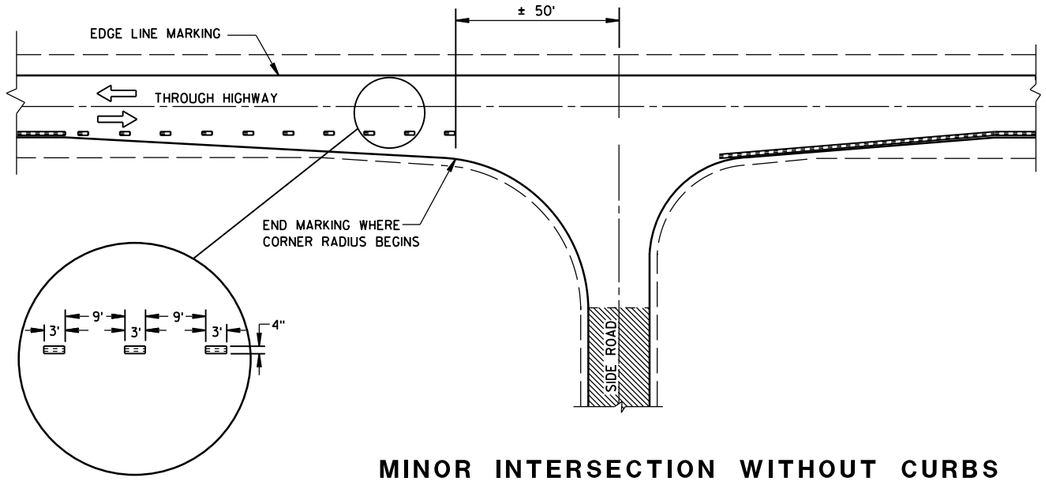
APPROVED
10-1-2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

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S.D.D. 15 C 8-15a

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S.D.D. 15 C 8-15a



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.

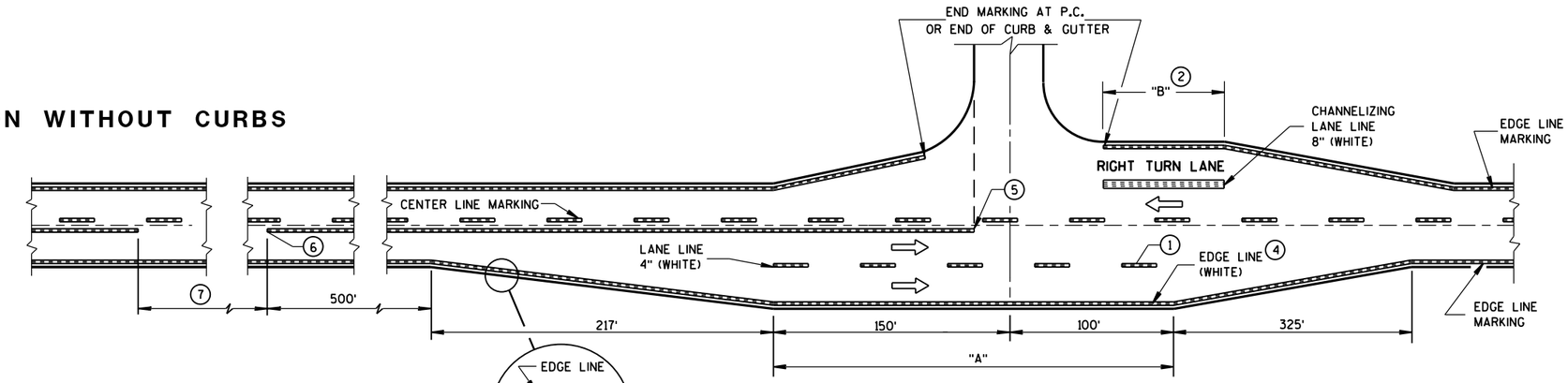
(7) IF THE DISTANCE BETWEEN 2 SUCCESSIVE NO-PASSING ZONES IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES, CONNECT THE 2 ZONES.

(8) 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

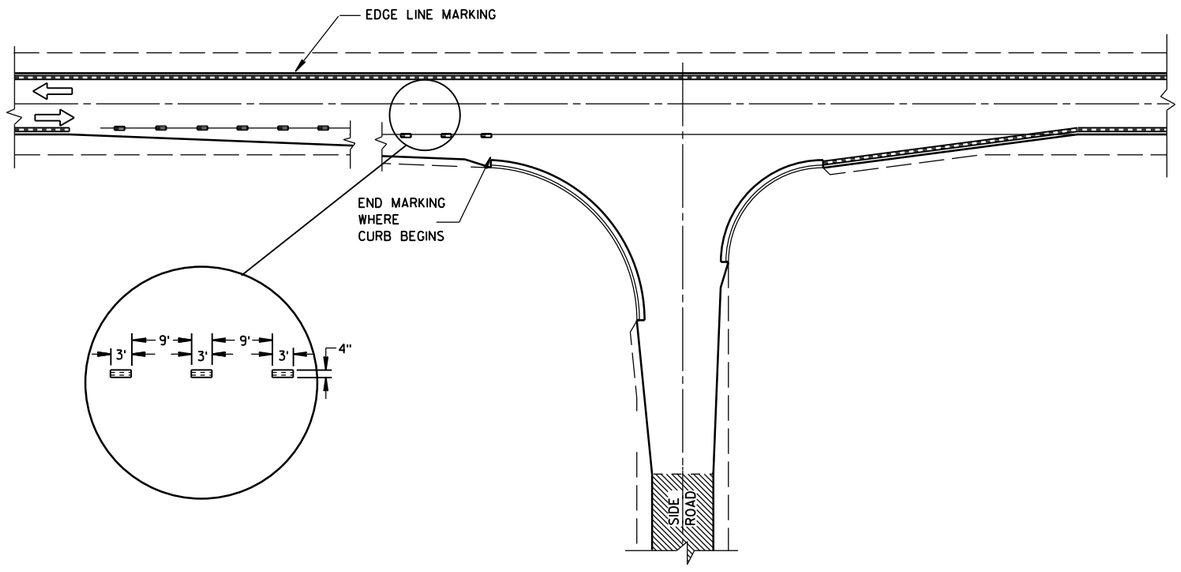
(7)

POSTED SPEED (MPH)	MINIMUM DISTANCE BETWEEN ZONES (FEET)
25 - 30	528
35 - 40	528
45 - 50	686
55	792



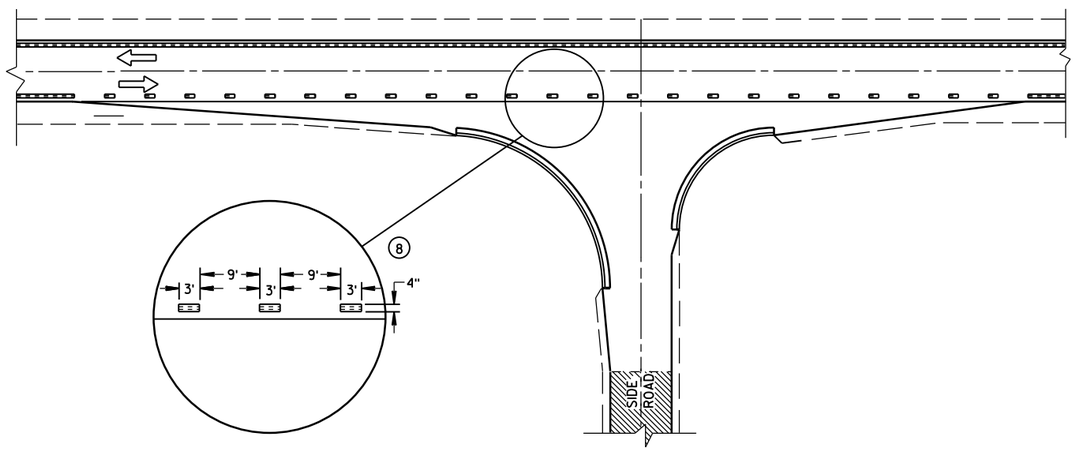
MAJOR INTERSECTIONS

(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)

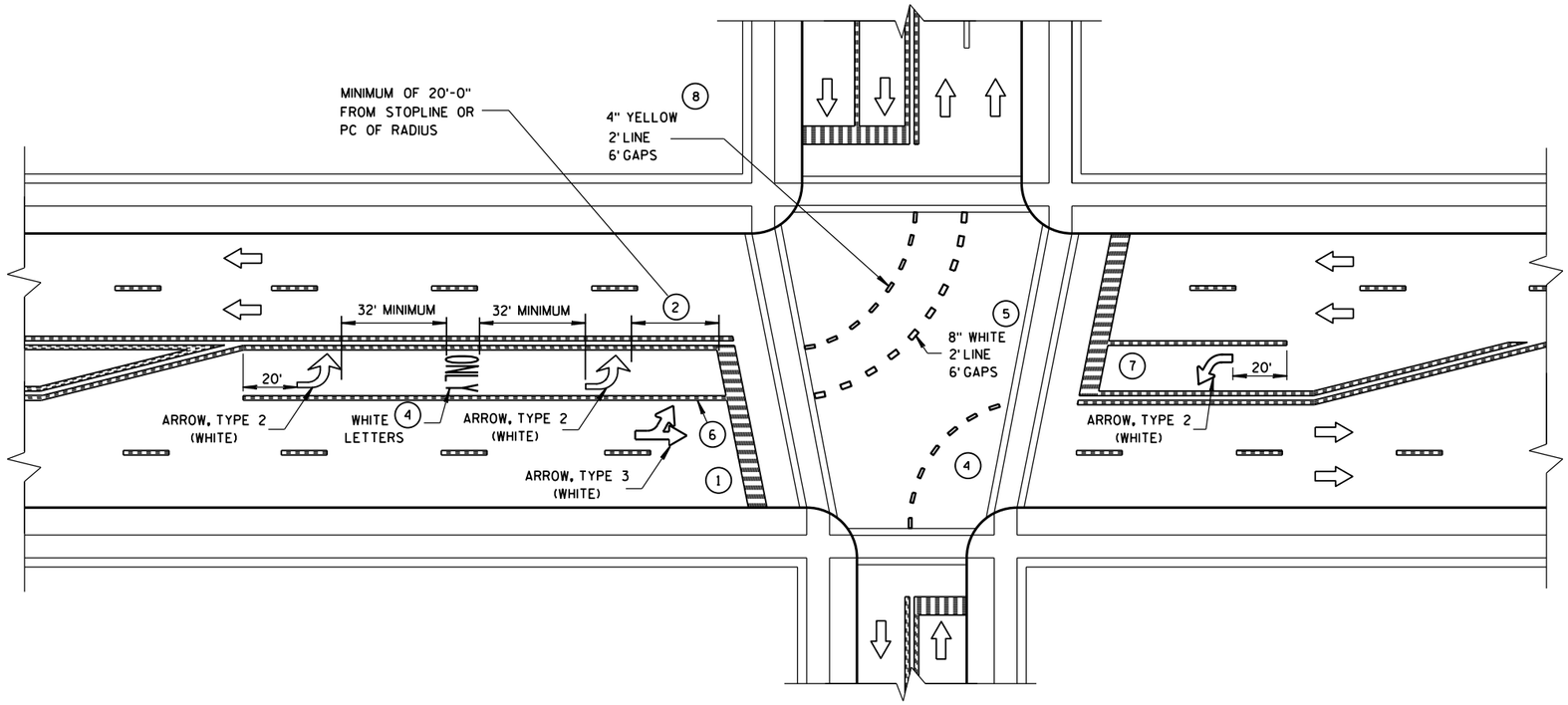
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

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S.D.D. 15 C 8-15b

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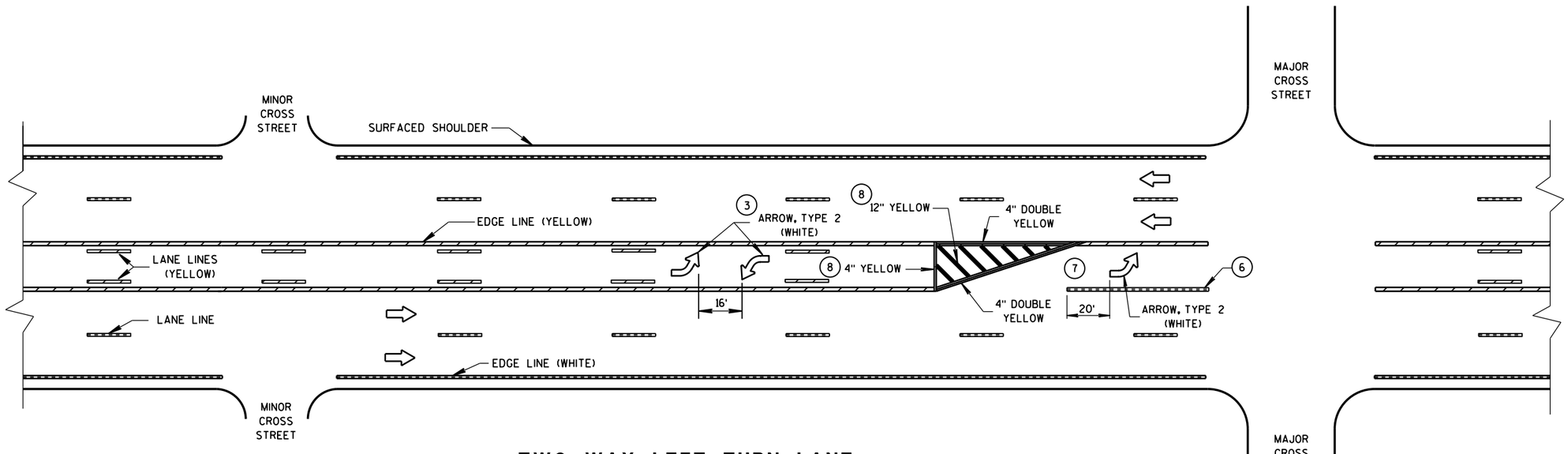
S.D.D. 15 C 8-15b



GENERAL NOTES

1. STOP BAR IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
2. DISTANCE MAY BE ADJUSTED TO ACCOMODATE SHORT LEFT TURN LANES. AS APPROVED BY THE ENGINEER.
3. A SET OF ARROWS IS REQUIRED EVERY 400' OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
4. ADD EXTRA ARROW AND ONLY PER 160' OR WHEN ON A CURVE.
5. 8" WHITE WITH 2' LINE 6' GAPS FOR DUAL TURN LANE.
6. 8" WHITE
7. ADD SECOND ARROW WHEN TURN BAY IS GREATER THAN OR EQUAL TO 108'.
8. REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL



TWO WAY LEFT TURN LANE

PAVEMENT MARKING (LEFT TURN LANE)

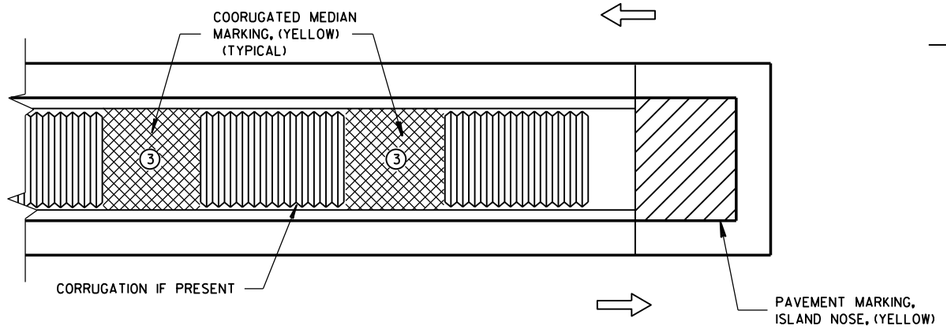
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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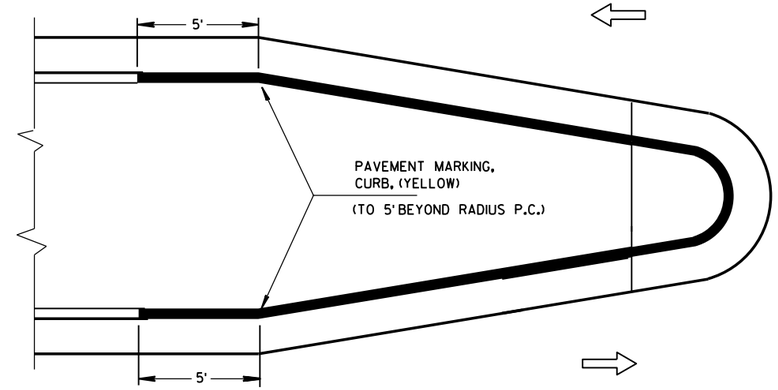
S.D.D. 15 C 8-15e

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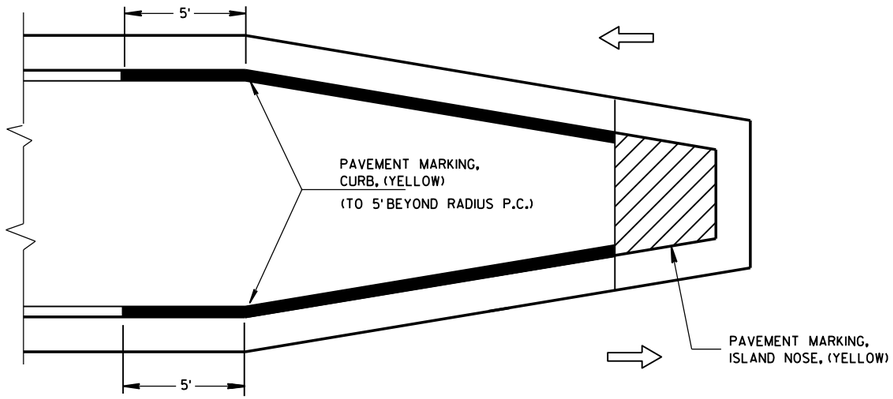
S.D.D. 15 C 8-15e



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

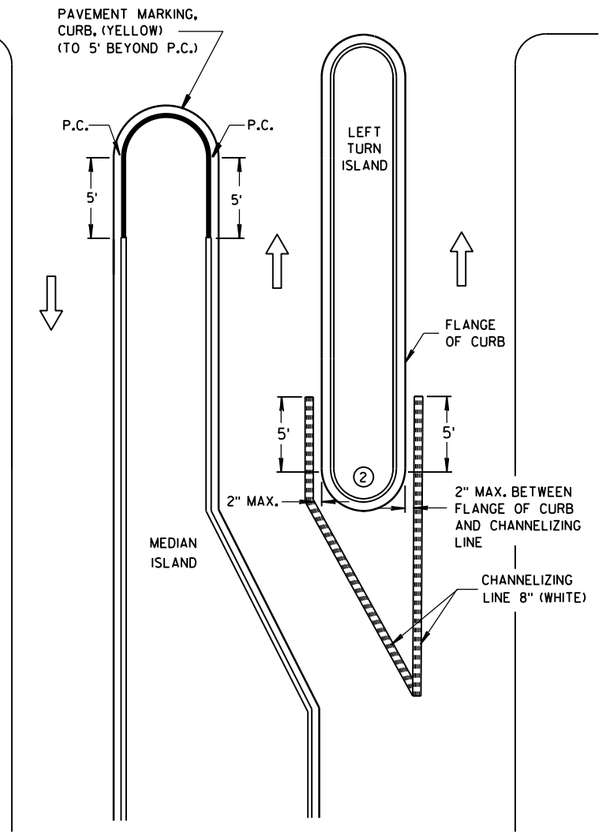


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

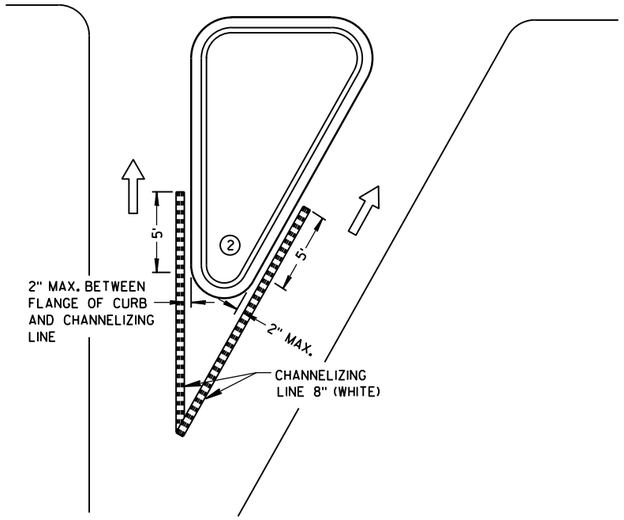
TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS



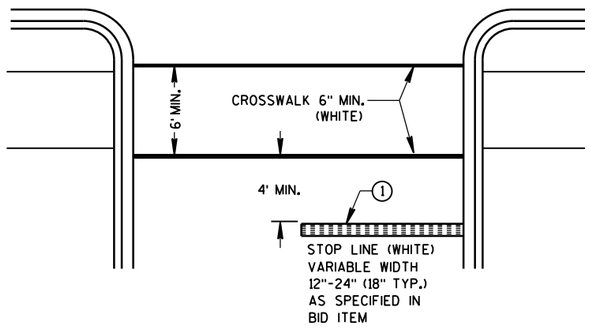
LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

1. STOP LINE IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
2. DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.
3. WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.



RIGHT TURN ISLAND



STOP LINE AND CROSSWALK

LEGEND

- ISLAND NOSE MARKING
- CURB MARKING
- CORRUGATED MEDIAN MARKING
- DIRECTION OF TRAVEL

PAVEMENT MARKING (ISLANDS, STOP LINE & CROSS WALK)

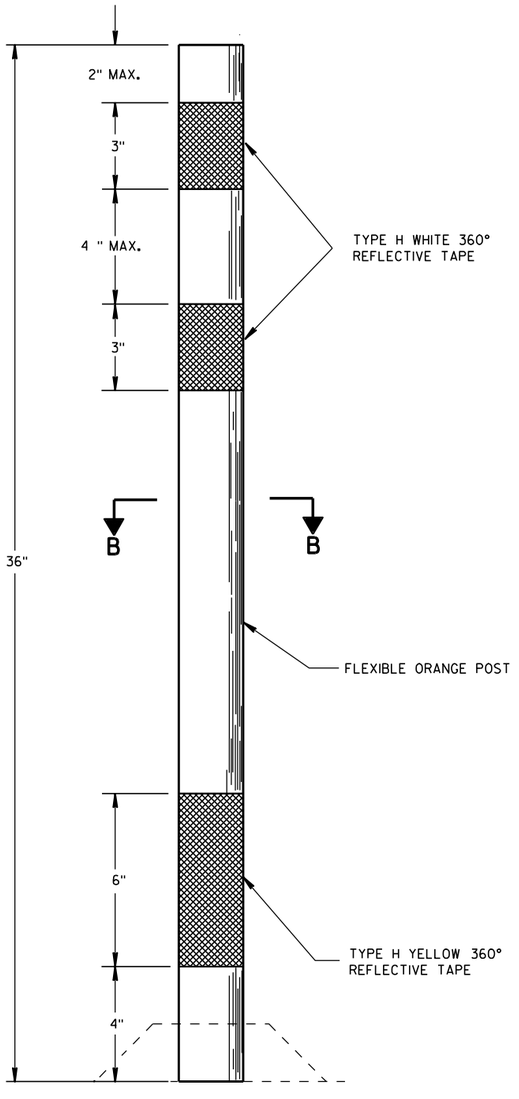
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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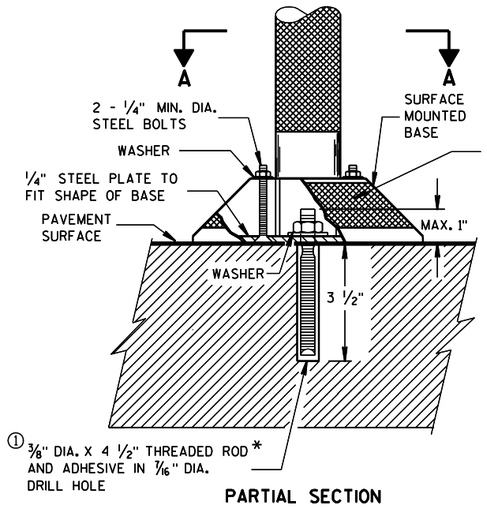
S.D.D. 15 C 8-15f

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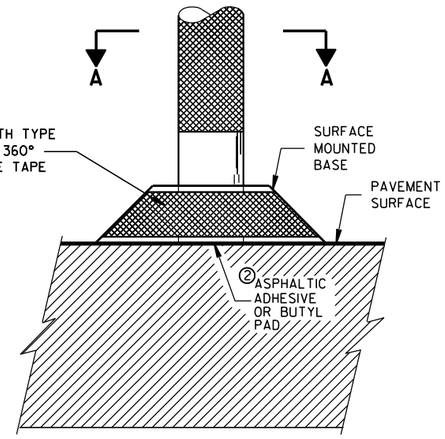
S.D.D. 15 C 8-15f



FLEXIBLE TUBULAR MARKER POST



PARTIAL SECTION TO SHOW BOLTS



POST BASES ON NEW OR EXISTING PAVEMENT

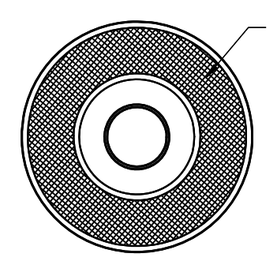
GENERAL NOTES

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.

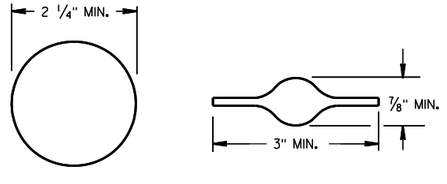
① THREADED ROD SHALL BE MACHINED DOWN TO 0.280 INCH DIA. 1 1/4 INCHES FROM THE TOP.

② THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.



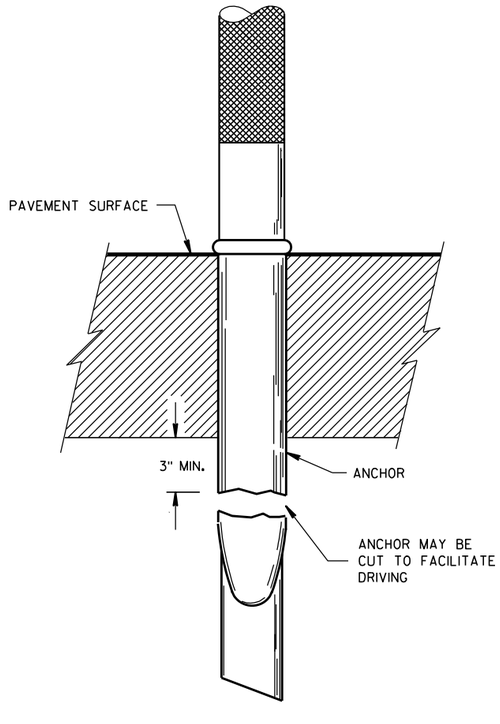
SECTION A-A

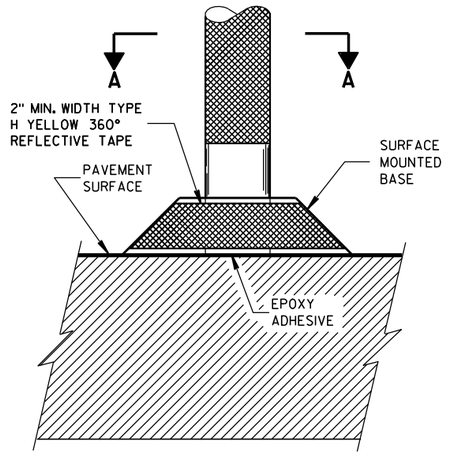
SURFACE MOUNTED BASE



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

TWO-LANE ROADWAY

SYMBOLS

WORK AREA

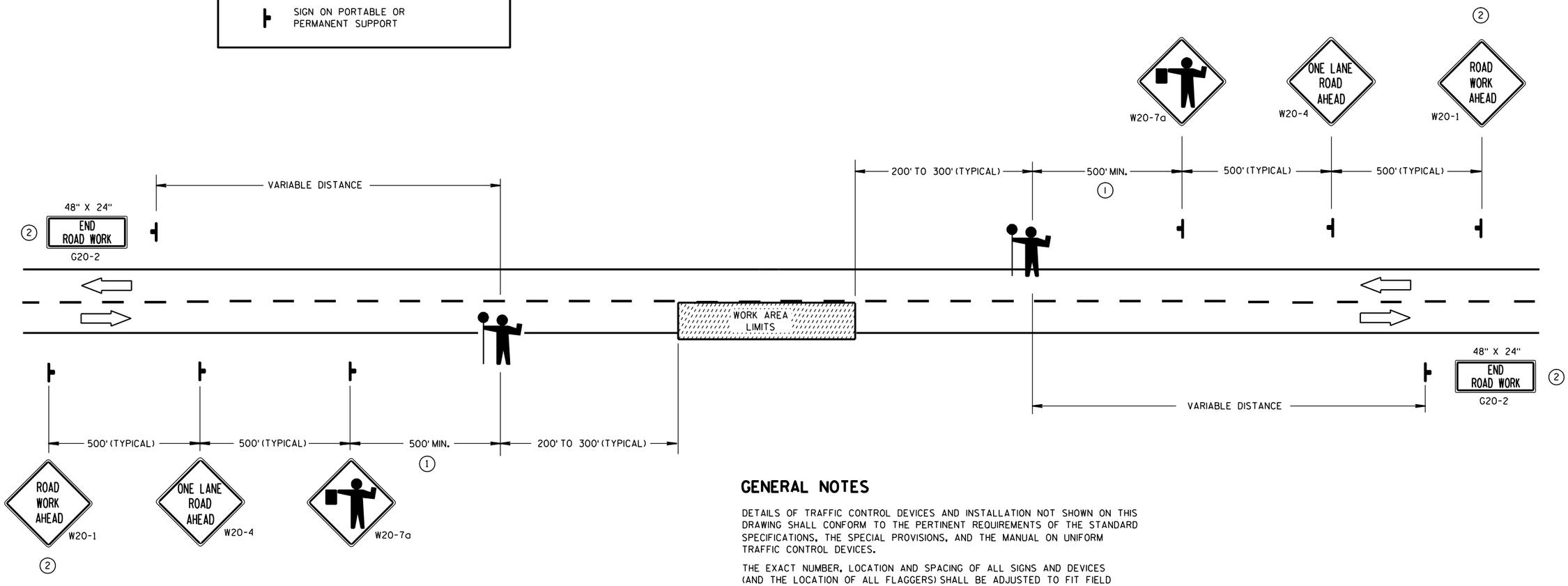
FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN ON PORTABLE OR PERMANENT SUPPORT



W3-4

USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 500' TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.



(1) FOR A MOVING WORK OPERATION,
SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, THE "FLAGGER AHEAD", THE "ROAD WORK AHEAD" AND THE ONE LANE ROAD AHEAD" SIGNS SHALL BE COVERED OR REMOVED AND THE HIGHWAY RESTORED TO NORMAL OPERATION.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

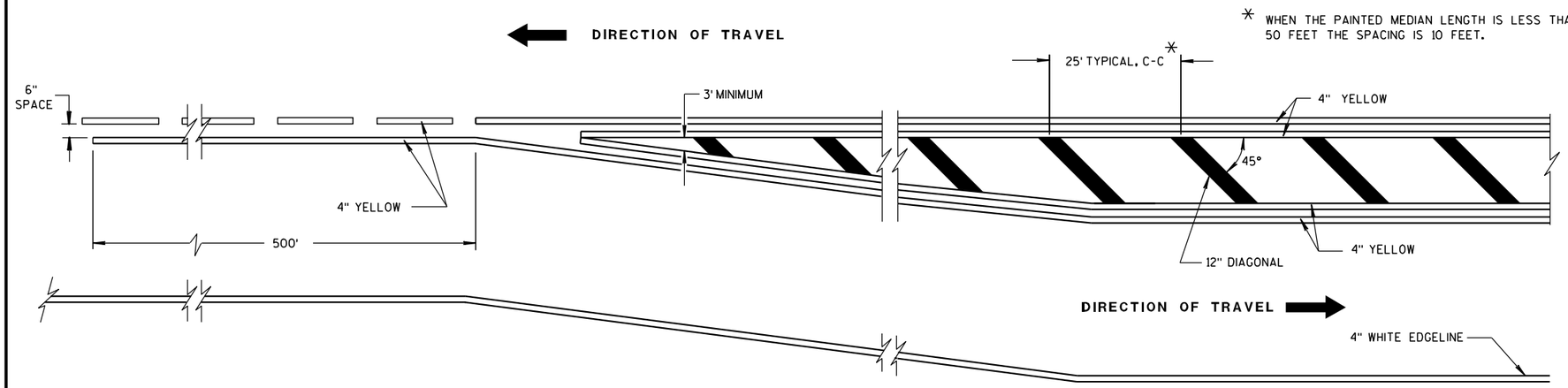
9/5/06 — DATE

/S/ Thomas N. Nothohm — STATE TRAFFIC ENGINEER

FHWA

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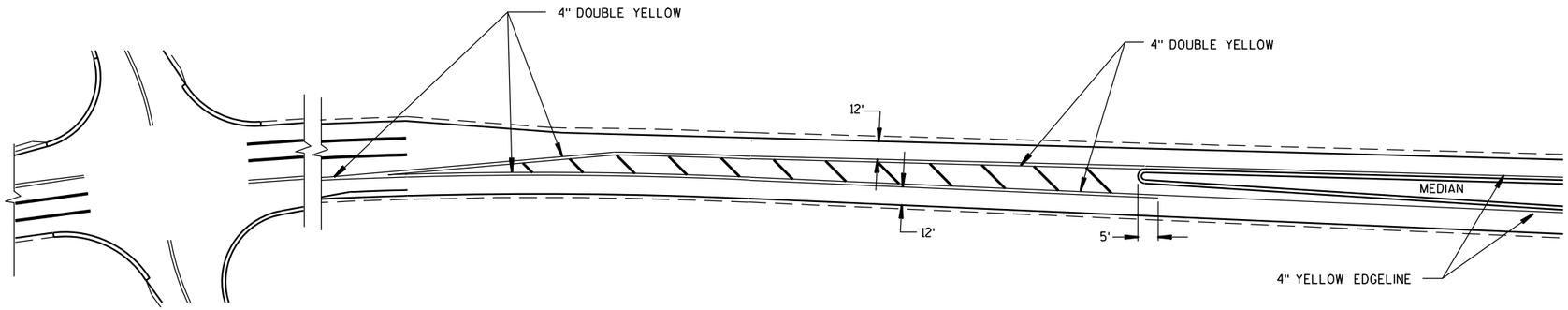
S.D.D. 15 C 12-3



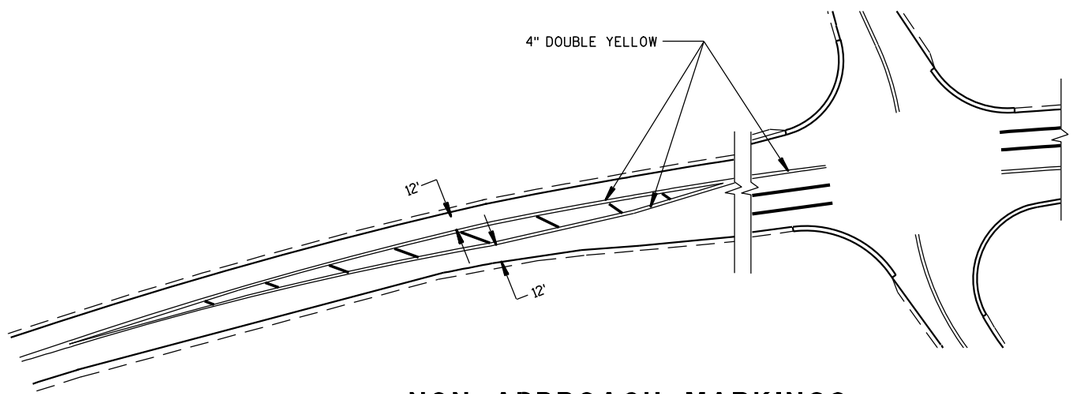
MEDIAN ISLAND DETAIL

GENERAL NOTE

DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON APPROACH MARKINGS

MEDIAN ISLAND MARKING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 2-5-09 DATE	/S/ Thomas N. Nothohm STATE TRAFFIC ENGINEE 222 IGN
FHWA	

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S.D.D. 15 C 18-3

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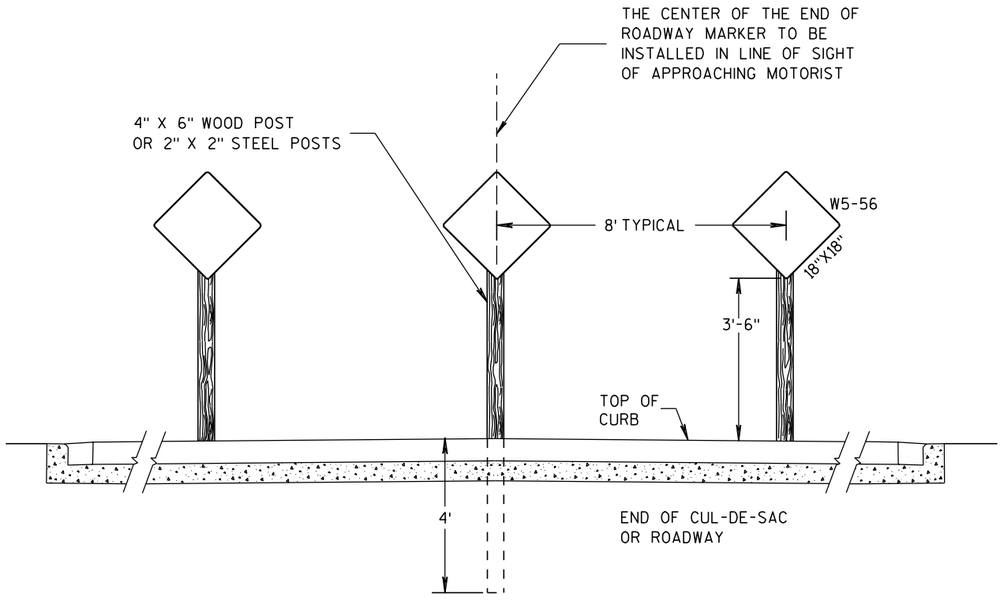
S.D.D. 15 C 18-3

GENERAL NOTES

SIGN LOCATIONS SHOWN ARE TYPICAL PLACEMENT AND MAY BE ADJUSTED BY THE ENGINEER AS FIELD CONDITIONS DICTATE.

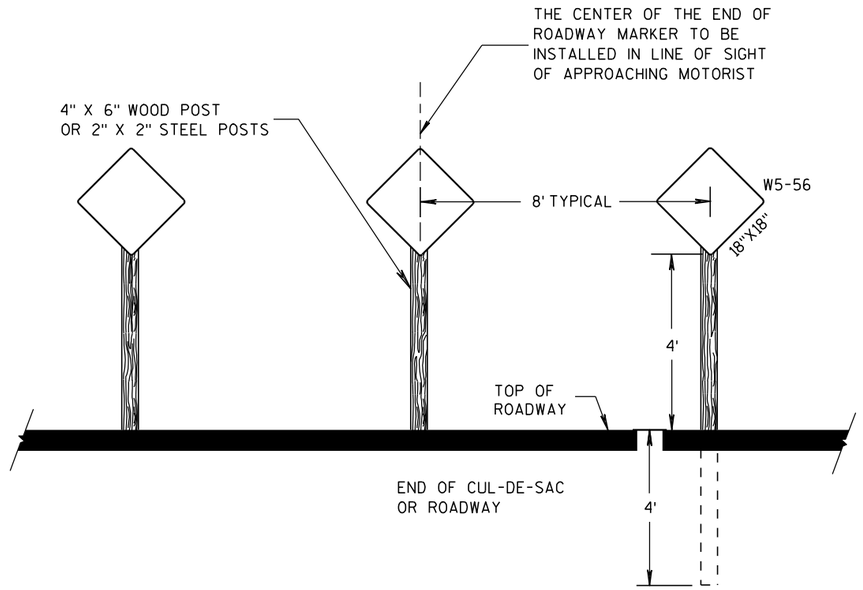
THE MINIMUM NUMBER OF END-OF-ROADWAY SIGNS ARE THREE (AS SHOWN). ADDITIONAL END-OF-ROADWAY SIGNS MAY BE INSTALLED AS FIELD CONDITIONS DICTATE. (SEE SIGNING PLAN).

WHEN BEAMGUARD IS REQUIRED, PLACE END-OF-ROADWAY SIGNING BEHIND BEAMGUARD.



TYPICAL URBAN SIGN INSTALLATION

(WITH CURB & GUTTER)



TYPICAL RURAL SIGN INSTALLATION

(WITHOUT CURB & GUTTER)

6

S.D.D. 15 C 26-2

END-OF-ROADWAY SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

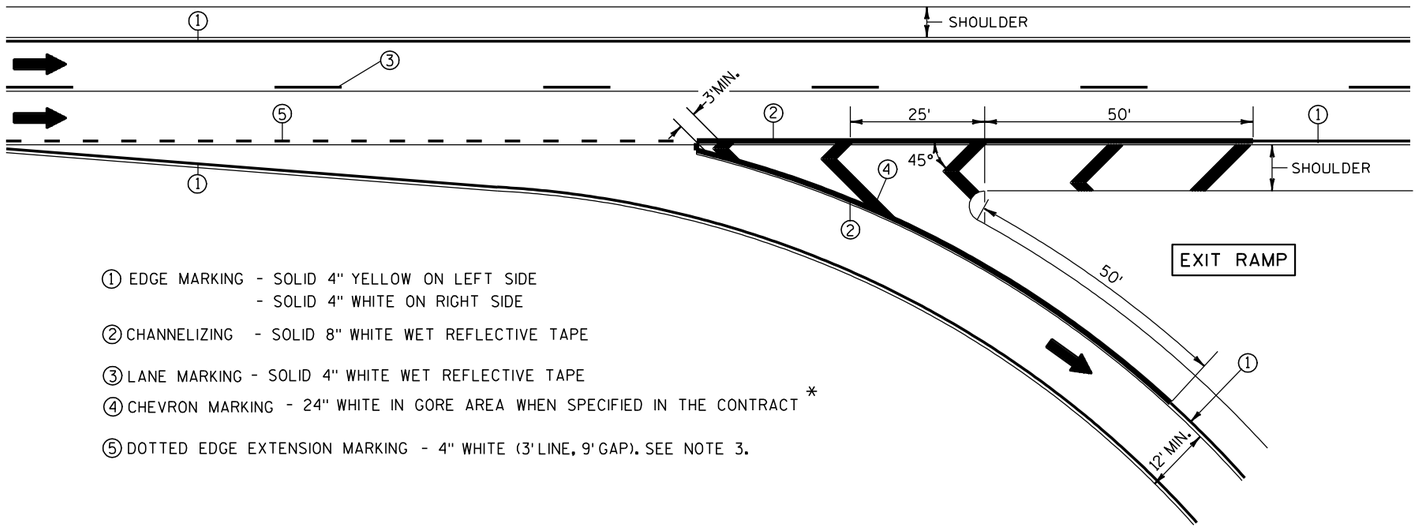
8/1/2011 — DATE

/S/ Thomas N. Nothohm — STATE TRAFFIC ENGINEER

FHWA

6

S.D.D. 15 C 26-2



① EDGE MARKING - SOLID 4" YELLOW ON LEFT SIDE
- SOLID 4" WHITE ON RIGHT SIDE

② CHANNELIZING - SOLID 8" WHITE WET REFLECTIVE TAPE

③ LANE MARKING - SOLID 4" WHITE WET REFLECTIVE TAPE

④ CHEVRON MARKING - 24" WHITE IN GORE AREA WHEN SPECIFIED IN THE CONTRACT *

⑤ DOTTED EDGE EXTENSION MARKING - 4" WHITE (3' LINE, 9' GAP). SEE NOTE 3.

NOTES:

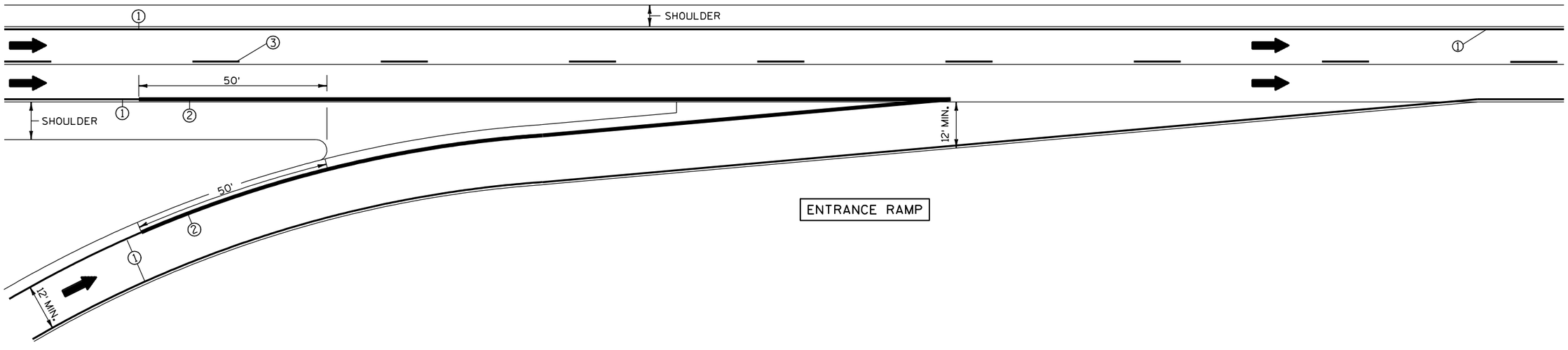
1. ARROWS SHOWN ON THIS MARKING PLAN DESIGNATE TRAFFIC FLOW, AND SHALL NOT BE TAKEN AS PROPOSED PAVEMENT MARKINGS.

2. PLACE WHITE EDGE OF TAPE 6" LEFT FROM JOINT.

3. 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE-GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.

4. RETRACE EXISTING DIAGONAL MARKINGS.

* REFER TO DESIGN NOTES.



6

6

S.D.D. 15 C 31-1a

S.D.D. 15 C 31-1a

PAVEMENT MARKING
(RAMPS AND GORES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

LEGEND

- POST WITH ATTACHED SIGN
- POST WITH ATTACHED SIGN IN DRUM
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- ARROW BOARD
- 8' TYPE III BARRICADE
- REMOVING PAVEMENT MARKING
- DIRECTION OF TRAFFIC

GENERAL NOTES :

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

(1) CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

GENERAL NOTES CONTINUED:

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 7 CONTINUOUS DAYS AND NIGHTS.

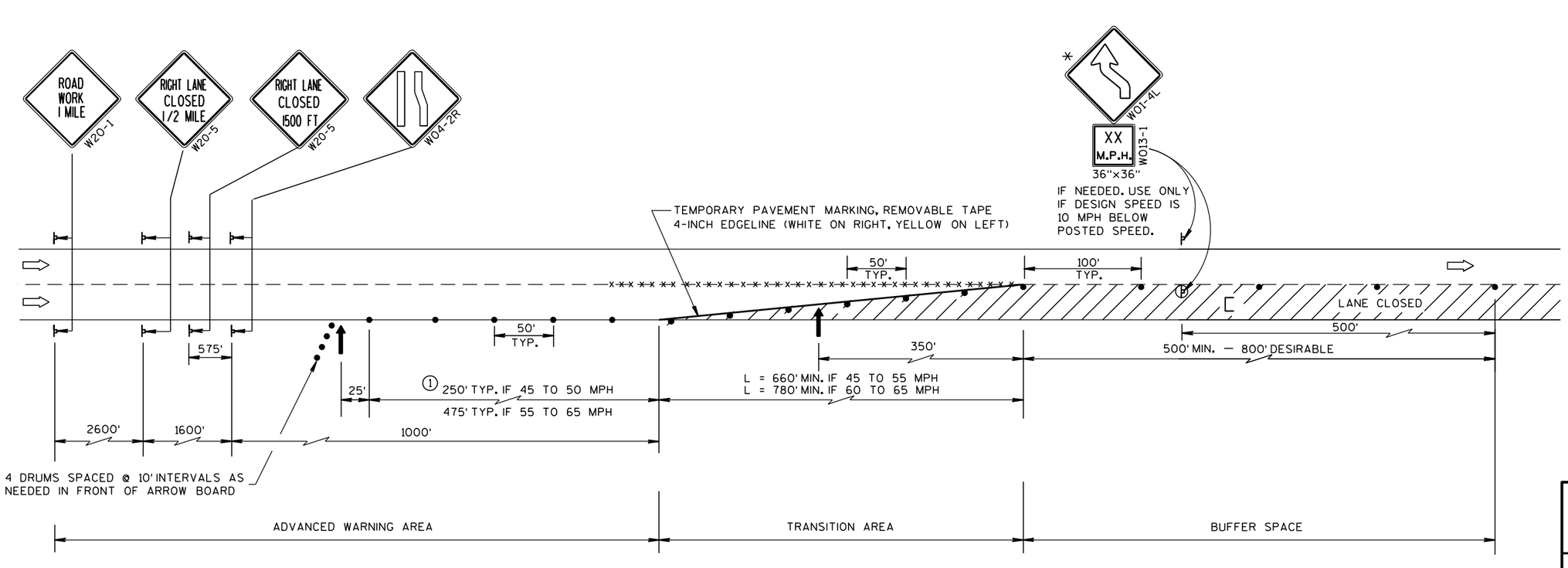
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

IF LANE CLOSURE IS MORE THAN 1 MILE, PLACE A TYPE III BARRICADE APPROXIMATELY EVERY 1/4 MILE ACROSS THE CLOSED LANE TO HELP ENFORCE THE DRUM LINE.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

* THE LEFT REVERSE CURVE SIGN (WO1-4L) IS ONLY REQUIRED WHEN THIS DETAIL IS USED IN COMBINATION WITH "SINGLE LANE CROSSOVER" DETAIL.



TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8-7-95 DATE
/S/ Chester J. [illegible]
DIRECTOR, OFFICE O 225 C
FHWA

SYMBOLS

IC/C	TYPE III BARRICADE (8' EQUIVALENT) WITH/WITHOUT SIGN
•	DRUM
⊢	POST MOUNTED SIGN
(A)	WARNING LIGHT, TYPE A (FLASHING)
⇨	DIRECTION OF TRAFFIC

GENERAL NOTES

THIS RAMP CLOSURE DETAIL IS TYPICAL FOR CLOSING A RIGHT SIDE EXIT RAMP. FOR A LEFT SIDE EXIT RAMP, REVERSE THE TRAFFIC CONTROL.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

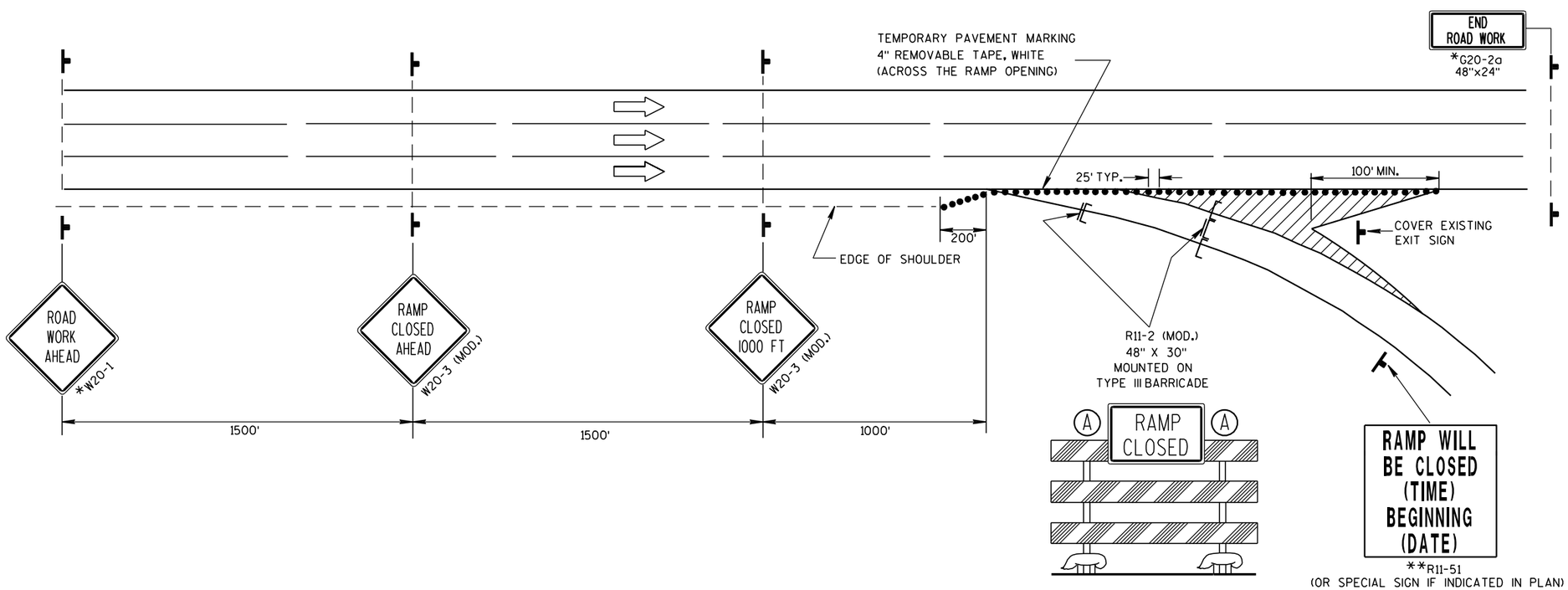
PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF RAMP CLOSURE IS TO BE IN PLACE FOR 7 OR MORE CONTINUOUS DAYS AND NIGHTS.

WORK AREAS WITH A DROPOFF ALONG THE EDGE OF AN OPEN TRAVEL LANE SHALL BE LEVELED WITH TEMPORARY FILL WHEN THE CONTRACTOR IS NOT WORKING ADJACENT TO THE TRAVEL LANE. DRUMS SHALL BE PLACED ENTIRELY OUTSIDE THE TRAVEL LANE, ALLOWING THE FULL UNOBSTRUCTED LANE WIDTH, WHEN THE WORK IS NOT IN PROGRESS.

WHERE MEDIAN BARRIER IS IN PLACE, SIGNS SHOWN ON LEFT SIDE OF ROADWAY MAY BE OMITTED FOR RIGHT SIDE RAMP CLOSURES OF LESS THAN 12-HOUR DURATION.

*W20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE RAMP CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

**USE THE "RAMP WILL BE CLOSED" SIGN IF INDICATED IN MISCELLANEOUS QUANTITIES. PLACE 10 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR SIGN LAYOUT.



TRAFFIC CONTROL,
EXIT RAMP CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

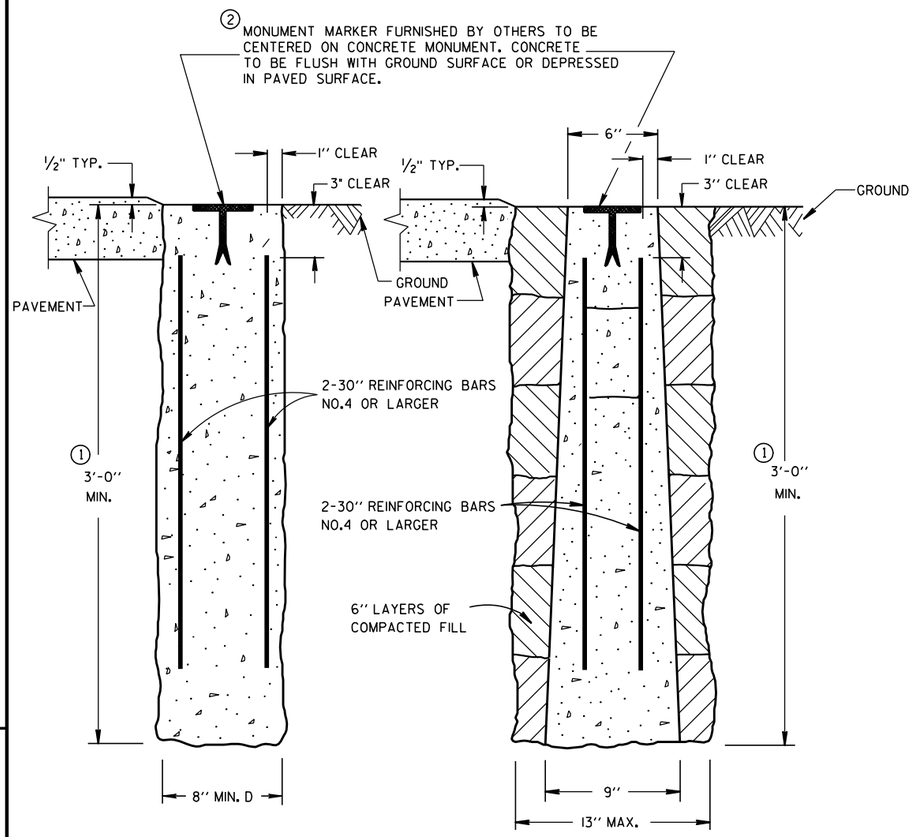
5/23/2000
DATE

/S/ Chester J. [illegible]
CHIEF SIGNS AND MARKINGS ENGINEER

FHWA

6

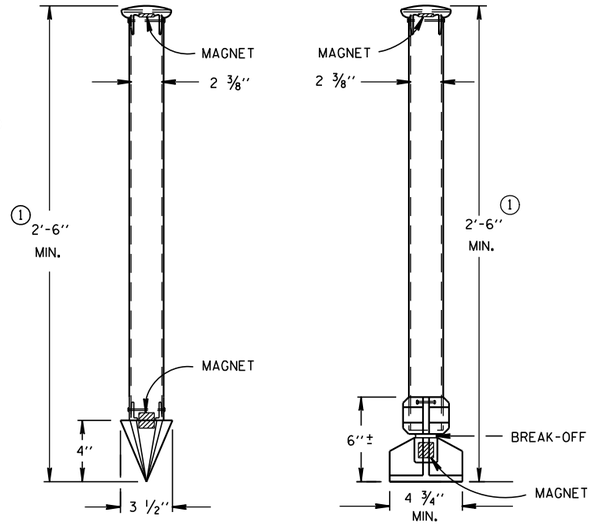
S.D.D. 15 D 16-1



CAST-IN-PLACE PRECAST

CONCRETE MONUMENTS

TYPE A



ALUMINUM MONUMENTS

(INCLUDES MARKER)

GENERAL NOTES

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

DETAILED DRAWINGS OF PROPOSED ALTERNATE DESIGNS FOR METAL MONUMENTS OR MONUMENT COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

INSTALLED METAL MONUMENTS MUST BE EASILY DETECTED WITH A DIP NEEDLE. INSERT PERMANENT MAGNETS SHALL BE ATTACHED NEAR THE TOP AND BOTTOM OF THOSE MONUMENTS CONSTRUCTED OF A METAL ALLOY WHICH IS NOT ATTRACTIVE TO A DIP NEEDLE.

THE CAST IRON MONUMENT COVER SHALL BE A "NON-ROCKING" TYPE. ADJUSTMENT OF THE COVER TO GRADE MAY BE ACCOMPLISHED BY THE USE OF MORTAR AND BRICK, OR BY EITHER PRECAST OR CAST-IN-PLACE REINFORCED CONCRETE GRADE RINGS.

MONUMENTS SHALL BE LOCATED AND PLACED AT THE DIRECTION OF THE ENGINEER.

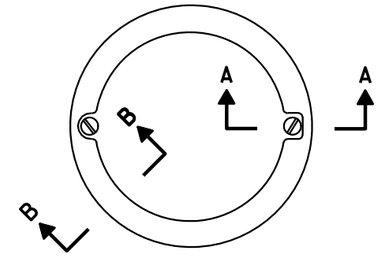
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

THE MONUMENT COVERS DETAILED ON THIS DRAWING ARE NOT EQUAL ALTERNATES. MONUMENT COVERS SHALL BE CAST IRON UNLESS ALUMINUM IS SPECIFIED ELSEWHERE IN THE CONTRACT.

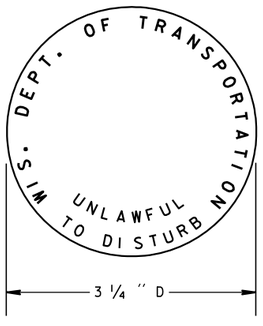
MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER.

① MINIMUM LENGTH SHALL BE 4'-0" FOR MONUMENTS INSTALLED IN PAVED AREAS.

② AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY MAY BE REQUIRED FOR SOME SECTION CORNERS AND WITNESS MONUMENTS INSTEAD OF THIS WIS DOT MARKER.

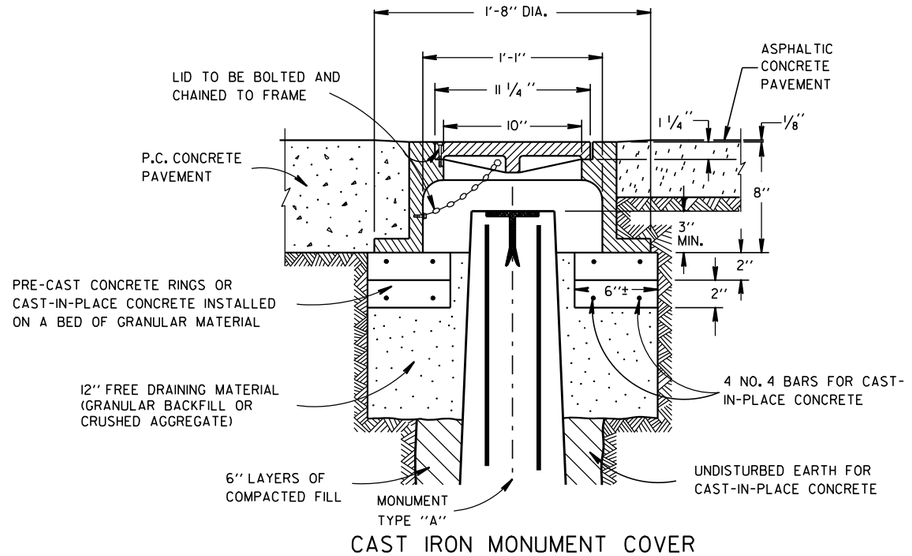


TOP VIEW



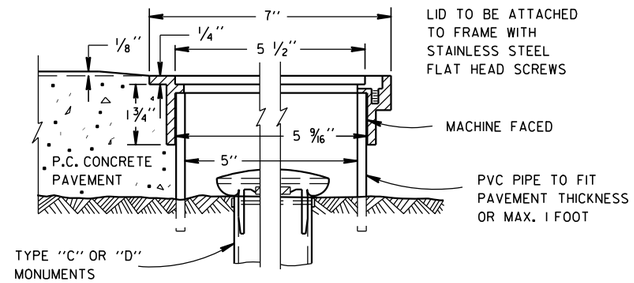
② WIS DOT MONUMENT MARKER LOGO

FOR TYPES "A", "C" & "D"



CAST IRON MONUMENT COVER

(APPROXIMATE WEIGHT - 95 LBS.)



SECTION B-B SECTION A-A

ALUMINUM MONUMENT COVER

(APPROXIMATE WEIGHT 2 LBS)

(FOR CONCRETE PAVEMENT ONLY)

LANDMARK REFERENCE MOUNMENTS AND COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

9/22/1999 DATE

/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOP 227 NEER

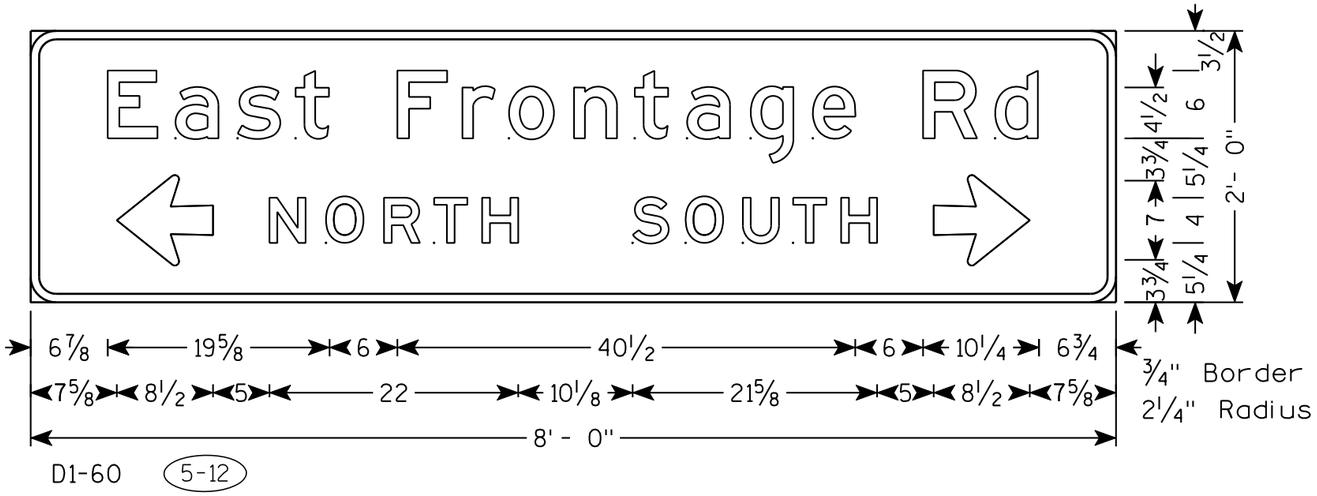
FHWA

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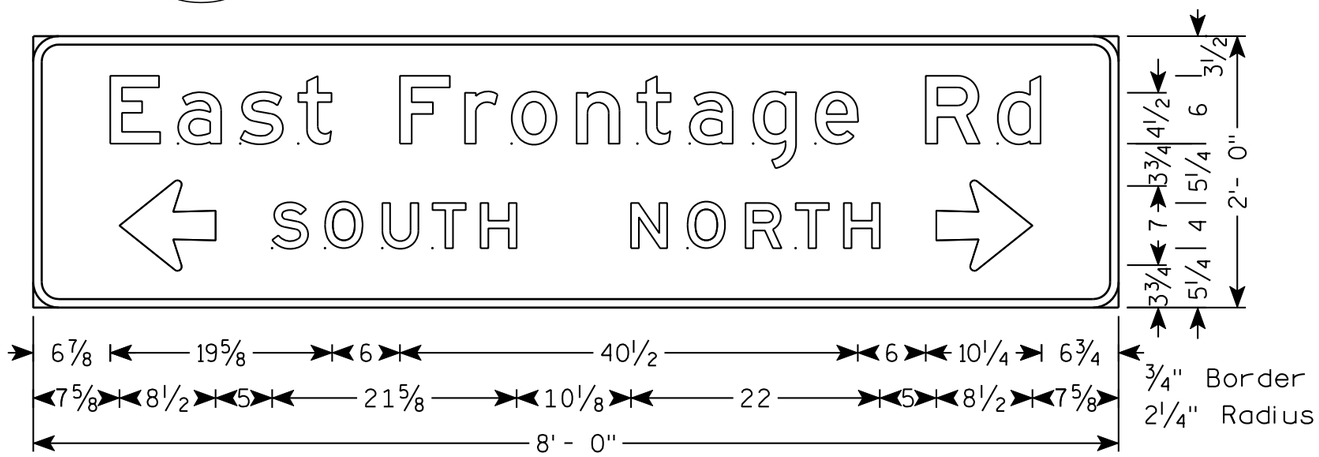
S.D.D. 16 A 1-6

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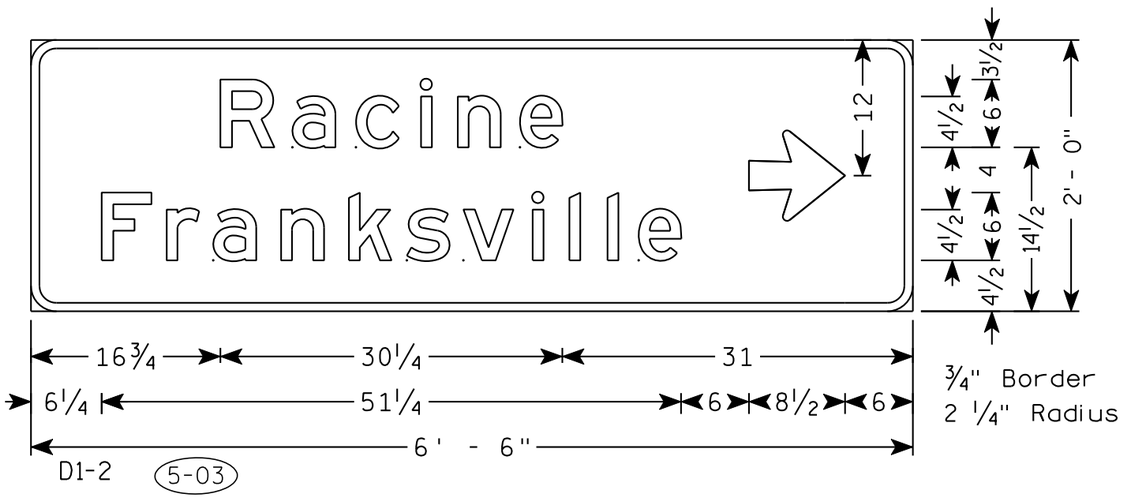
S.D.D. 16 A 1-6



D1-60 (5-12)



D1-60 (2-40)



D1-2 (5-03)

NOTES

1. All Signs Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message - White
3. Message Series - E

7

7

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PERMANENT SIGNING	SHEET NO: 228	E

GENERAL NOTES:

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

2. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET ARE "SIGNS, TYPE II".

3. UNLESS OTHERWISE NOTED, TYPE II SIGNS ON THIS SHEET SHALL HAVE "TYPE H REFLECTIVE SHEETING" AND, "TYPE H MESSAGE MATERIAL". TYPE I SIGNS SHALL HAVE TYPE SH REFLECTIVE SHEETING.

4. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET SHALL HAVE A GREEN BACKGROUND AND WHITE MESSAGE.

5. TYPE II SIGNS ALL UPPER CASE MESSAGE (EXCEPT ON SHIELDS OR WHERE OTHERWISE NOTED) SHALL BE "SERIES E. ALL LOWER CASE MESSAGE WITH AN INITIAL UPPER CASE LETTER SHALL BE "SERIES E.

6. TYPE I SIGNS - ALL UPPER CASE MESSAGE (EXCEPT ON SHIELDS OR WHERE OTHERWISE NOTED) SHALL BE SERIES "E" MODIFIED. ALL LOWER CASE MESSAGE WITH AN INITIAL UPPER CASE LETTER SHALL BE SERIES "E" MODIFIED. ALL CAP WORDS ARE "SERIES E"

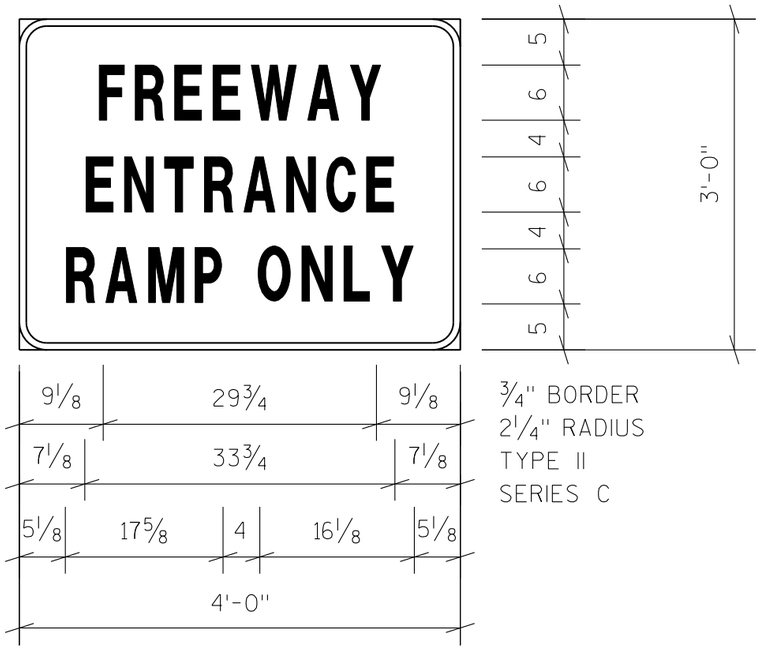
7. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET SHALL HAVE "TYPE A" OR "TYPE C" ARROWS AS SHOWN. SEE THE STANDARD SIGN PLATES FOR FURTHER DETAILS.

8. SEE THE STANDARD SIGN PLATES FOR FURTHER DETAILS ON ROUTE MARKER SHIELDS.

9. THE SIGN NUMBER IS DENOTED IN THE CIRCLE NEAR EACH DETAIL.

10. NUMBER FRACTIONS FOR INTERCHANGE SEQUENCE SIGNS SHALL BE SERIES "E" PER PLATES ALL-7 AND ALL-10

11. DO NOT SCALE.



3/4" BORDER
2 1/4" RADIUS
TYPE II
SERIES C

5-18

7

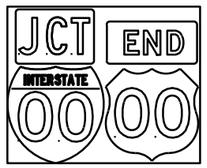
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PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	PERMANENT SIGNING	SHEET NO: 229	E

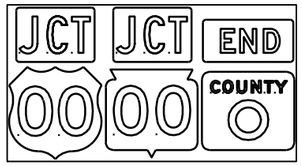
TYPICAL ASSEMBLIES



J1-1



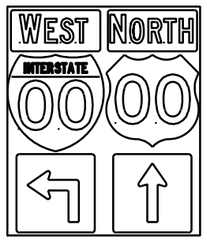
J1-2



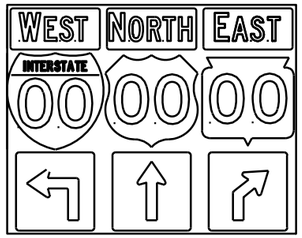
J1-3



J2-1



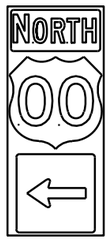
J2-2



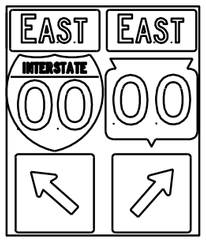
J2-3



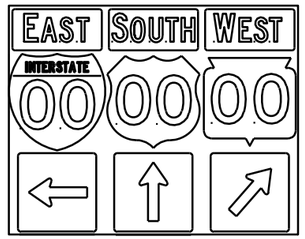
JV



J3-1



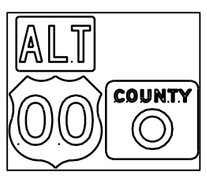
J3-2



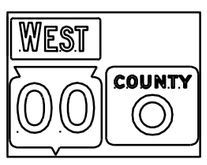
J3-3



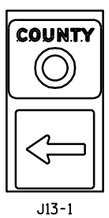
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1



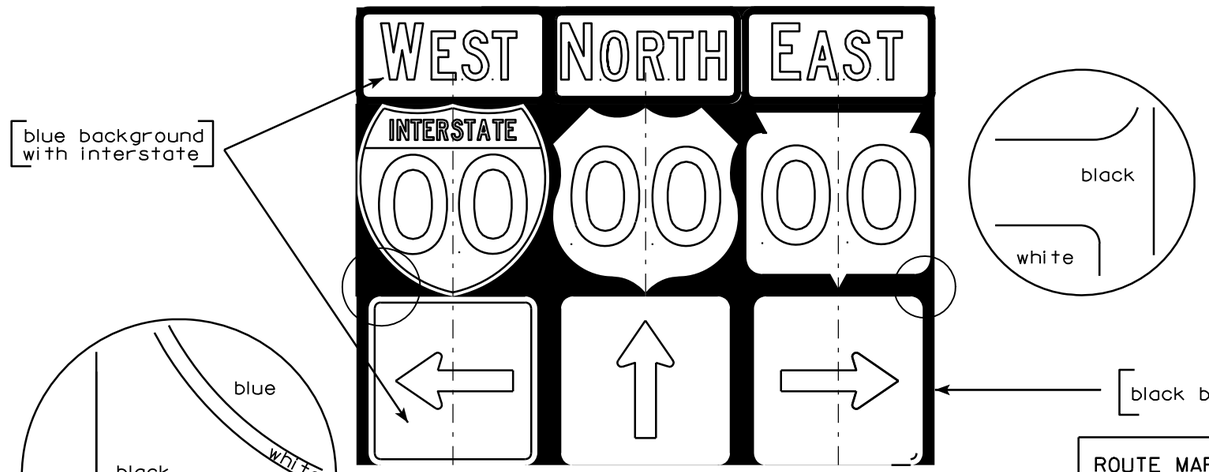
J23-1



J22-1

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square since base material is plywood.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.



ROUTE MARKERS & COMPONENTS IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

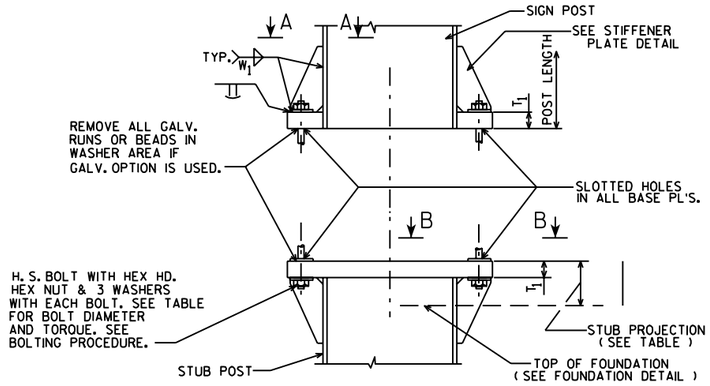
DATE 10/21/09 PLATE NO. A2-1S.6

7

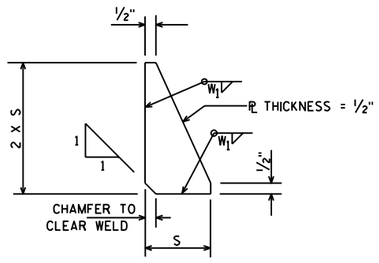
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PROJECT NO:

SHEET NO: 230 E

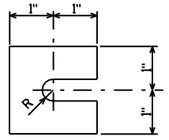


SIGN POST AND STUB POST ELEVATION



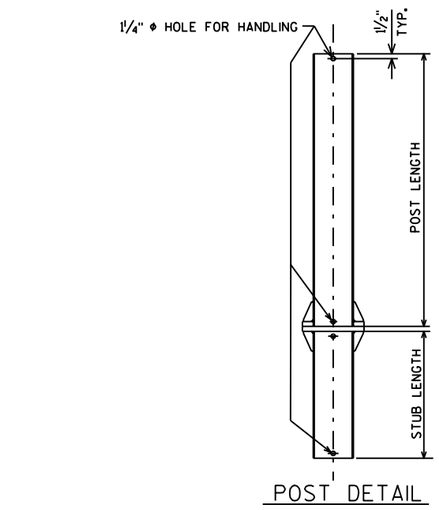
STIFFENER PLATE DETAIL

(SEE TABLE FOR DIMENSIONS)



FURNISH 2 @ .012" ± THICK AND 2 @ .032" ± THICK SHIMS PER POST. SHIMS SHALL BE FABRICATED FROM BRASS SHIM STOCK OR STRIP CONFORMING TO A.S.T.M.- B36.

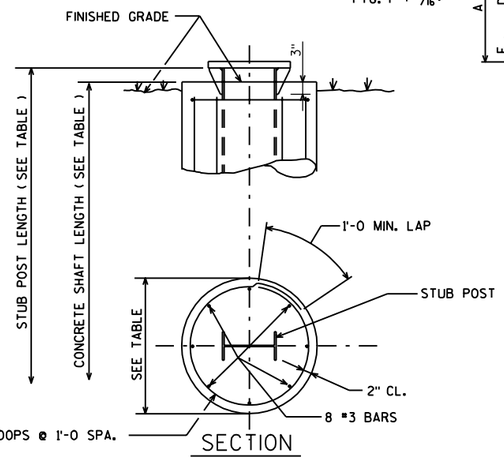
SHIM DETAIL



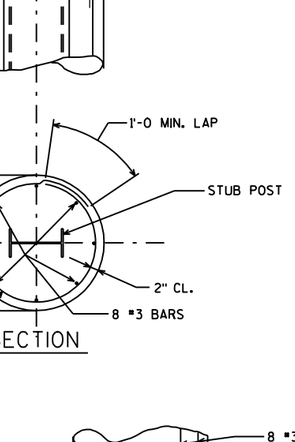
POST DETAIL

	QUANTITIES FOR 1 FOOTING	
	CONC. MASONRY C.Y.	REINF. STEEL LBS.
A	0.6	34
B	0.8	49
C	0.9	50
D	0.9	56
⑦ E	1.0	62

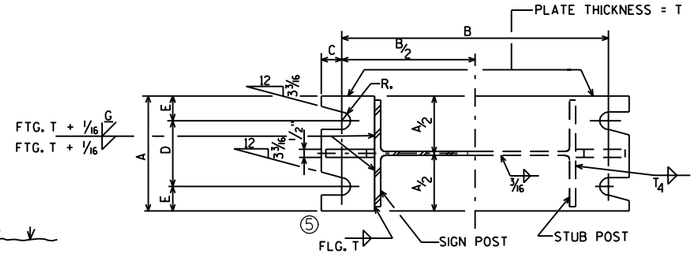
	TYPE	#3	#4
⑦ REINF.	A	8 @ 4'-5	5 @ 6'-3
	B	8 @ 6'-5	7 @ 6'-3
	C	8 @ 6'-11	7 @ 6'-3
	D	8 @ 7'-5	8 @ 6'-3
	E	8 @ 7'-11	9 @ 6'-3



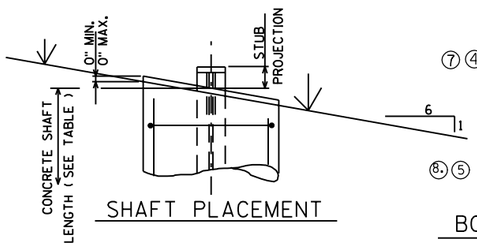
SECTION



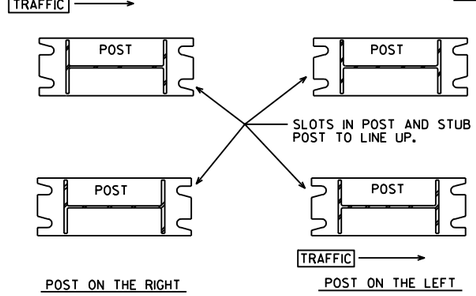
FOUNDATION DETAIL



SECTION A-A SECTION B-B



SHAFT PLACEMENT



POST SLOT ORIENTATION ⑦

DESIGN DATA

WIND PRESSURE = 75 M.P.H.
WIND COMPONENTS - NORMAL = 1.0 TRANSVERSE = 0.0
ICE LOAD = 3 P.S.F.

GROUP LOADS	PERCENT OF ALLOWABLE STRESS
1. DEAD	100
2. DEAD & WIND	140
3. DEAD, ICE & ½ WIND△	140 △25 P.S.F. MIN.

ALLOWABLE SOIL PRESSURE = 1½T / SQ. FT.
WIND LOAD WAS APPLIED TO THE AREA OF THE SIGN AND TO THE SUPPORTING MEMBERS.
ICE LOAD WAS APPLIED TO ONE FACE OF THE SIGN AND AROUND THE SURFACE OF THE SUPPORTING MEMBERS.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
DESIGN CONFORMS WITH A.A.S.H.T.O. SPECIFICATIONS 1985.
ALL POSTS, POST STUBS & ATTACHMENTS SHALL BE A.S.T.M. A709 GRADE 50, EXCEPT WHERE CONTRACT REQUIRES A.S.T.M. A709 GRADE 50 W.
IF A709 GRADE 50 MATERIAL IS USED, THE POST, BASE PLATES, UPPER SIX INCHES OF STUB POST, FLANGE SPLICE PLATE AND FUSE PLATE SHALL BE GALVANIZED AFTER FABRICATION.
H.S. BOLTS, WASHERS & NUTS SHALL BE A325 GALVANIZED WHEN POSTS, POST STUBS AND ATTACHMENTS ARE A709 GRADE 50 AND GALVANIZED.
H. S. BOLTS, WASHERS & NUTS SHALL BE A325 TYPE 3 NOT GALVANIZED WHEN CONTRACT REQUIRES A709 GRADE 50 W POSTS, POSTS STUBS AND ATTACHMENTS.

BOLTING PROCEDURE - BASE CONNECTION

1. ASSEMBLE SIGN POST TO STUB POST WITH BOLTS AND ONE OF THE FLAT WASHERS ON EACH BOLT BETW. PLATES.
2. SHIM AS REQ'D. TO PLUMB POST.
3. TIGHTEN ALL BOLTS THE MAXIMUM POSSIBLE WITH 12" OR 15" WRENCH TO BED WASHERS & SHIMS AND TO CLEAN BOLT THREADS, THEN LOOSEN EACH BOLT IN TURN AND RETIGHTEN IN A SYSTEMATIC ORDER TO THE PRESCRIBED TORQUE. (SEE TABLE)
4. BURR THREADS AT JUNCTION WITH NUT USING A CENTER PUNCH TO PREVENT NUT LOOSENING.

NOTE:
TIGHTEN THE HIGH STRENGTH BOLTS TO THE TORQUE SHOWN. DO NOT OVERTIGHTEN.

	TYPE	DIMENSION / POST SIZE	BOLT SIZE & TORQUE	A	B	C	D	E	T_1	T_4	W_1	R	S	STUB LENGTH	STUB PROJECTION	SHAFT DIAMETER	SHAFT LENGTH	K
④	A	W10"X12.0 #/FT.	¾" ϕ @ 75#-FT.	5¼"	1'-0⅜"	⅞"	3½"	⅞"	1"	⅜"	5/16"	13/32"	2⅛"	3'-6	3"	2'-0 ϕ	5'-0	76.0# ④
④	B	W12"X16.0 #/FT.	⅞" ϕ @ 85#-FT.	5½"	1'-4¼"	1"	3½"	1"	1¼"	¼"	5/16"	15/32"	3"	5'-6	3"	2'-0 ϕ	7'-0	146.5# ④
	C	W12"X19.0 #/FT.	⅞" ϕ @ 85#-FT.	5½"	1'-4¼"	1"	3½"	1"	1½"	5/16"	5/16"	15/32"	3"	6'-0	3"	2'-0 ϕ	7'-6	182.1#
	D	W12"X22.0 #/FT.	⅞" ϕ @ 85#-FT.	5½"	1'-4¼"	1"	3½"	1"	1½"	⅜"	5/16"	15/32"	3"	6'-6	3"	2'-0 ϕ	8'-0	210.5#
③	E	W12"X26.0 #/FT.	1" ϕ @ 90#-FT.	7"	1'-4¼"	1¼"	4"	1½"	1½"	⅜"	5/16"	17/32"	3"	7'-0	3"	2'-0 ϕ	8'-6	293.0# ③

② ① ⑥ ①

STRUCTURAL CARBON STEEL PAY WTS. (1 POST) = K+ (POST LENGTH X POST WT.)
" K " INCLUDES STUB, BASE PLATES, STIFFS., BOLTS, AND WASHERS.

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chesta J Spey for State Traffic Engineer

DATE 8/26/97 PLATE NO. A3-1.12

NO.	DATE	REVISION
⑧	10-30-96	NOT GALVANIZED/GALVANIZED
⑦	10-30-92	QUANT., A588 EXCEPT., ADD SLOT VIEW
⑥	8-24-87	BASE CONN. WELD
⑤	10-13-81	BASE CONN. WELD & FUSE PL WASHERS
④	10-19-79	POST A & B, A572 GR. 50, & K
②	11-28-78	"K" ③ 4-23-79 TYPE "E"
①	5-4-78	T_1 , T_2 & W_1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

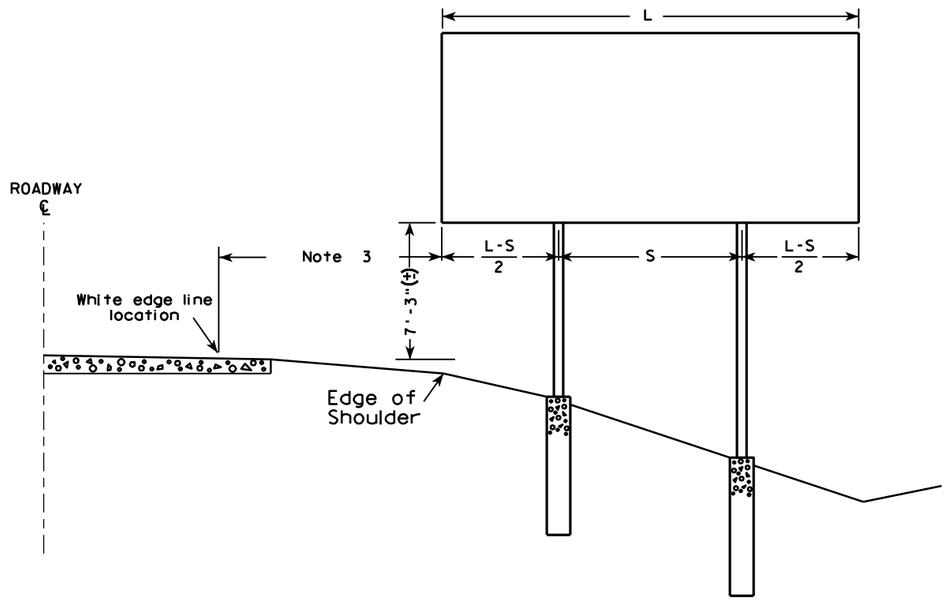
TYPE A, B, C, D, & E

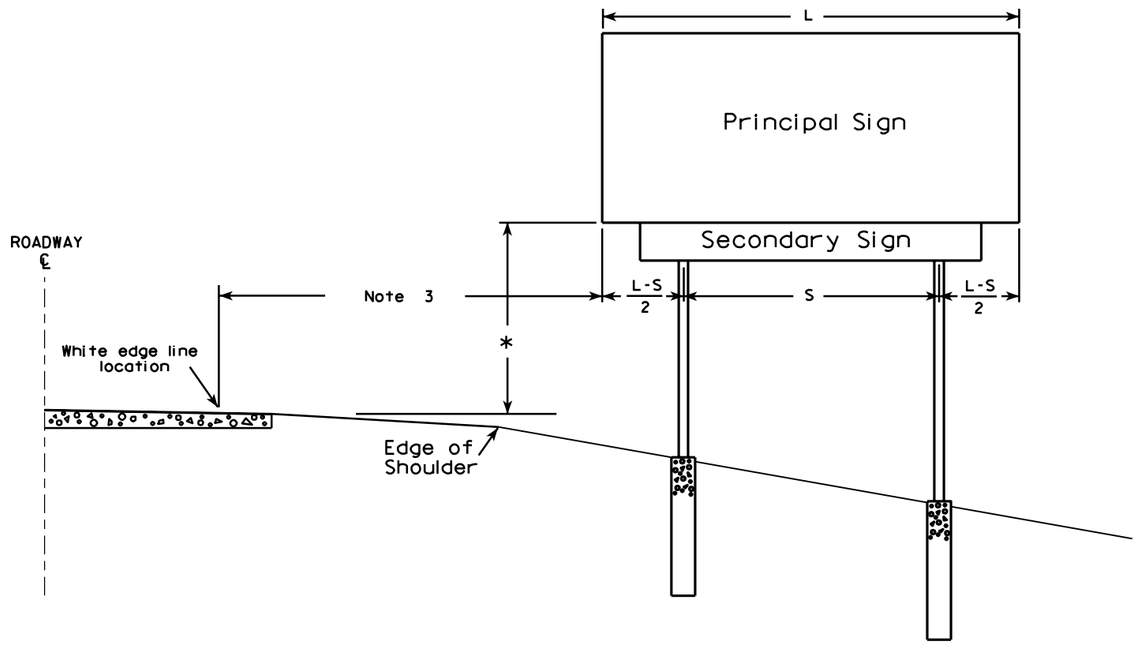
CONST. SPEC. 1989 | DRAWN BY LOY | PLANS CK'D.

FTG. & SIGN SUPPORT DETAILS GROUND MOUNT BREAK-AWAY SIGNS

SHEET

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 230A | E





GENERAL NOTES

1. For a 2 post installation, S equals 3L/5, but shall not be less than 9 ft.
2. For a 3 post installation, S equals 5L/7, but shall not be less than 18 ft., and the space between any two posts shall not be less than 9 ft.
3. Unless noted in the plan, the sign offset distance shall be a minimum of 17'-6", desirable 30'-0".
4. The (±) tolerance shown on this sheet is 3 in.
5. The vertical sign height clearance detailed is measured from the bottom of the sign to the near edge of pavement.
6. Post lengths shown in the miscellaneous quantities are estimated lengths. The contractor shall verify post lengths at the time of final grading.
7. Refer to the Traffic Guidelines Manual for further guidance on minimum vertical clearance requirements.

* Clearance is 8'-3"(±) when the secondary sign is 3 ft. or less in height. For secondary signs larger than 3 ft., the clearance to the bottom of the secondary sign shall be 5'-3"(±).

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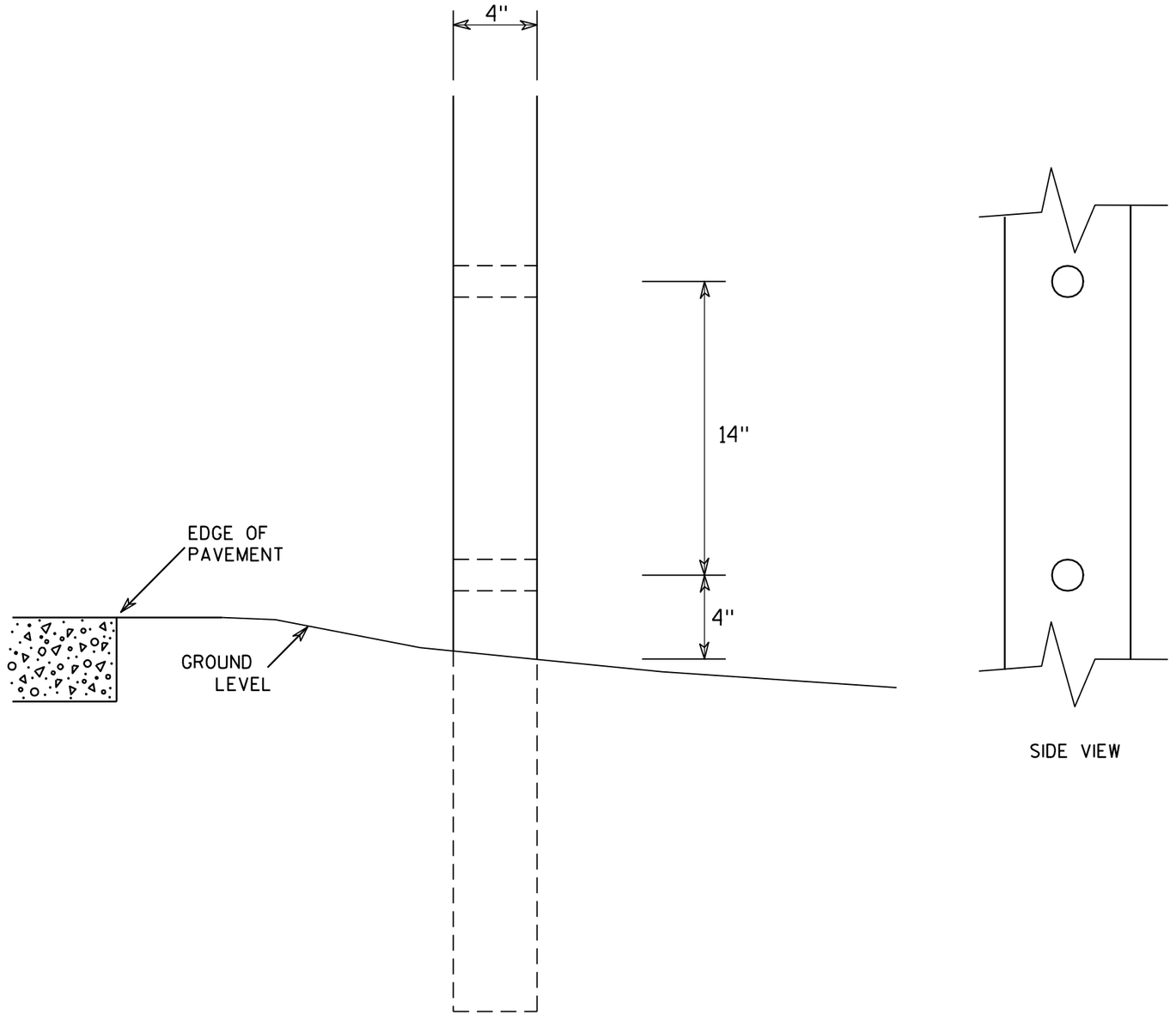
TYPICAL INSTALLATION
OF TYPE I SIGNS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/02/08 PLATE NO. A4-1.9

PROJECT NO:				SHEET NO: 231	E



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

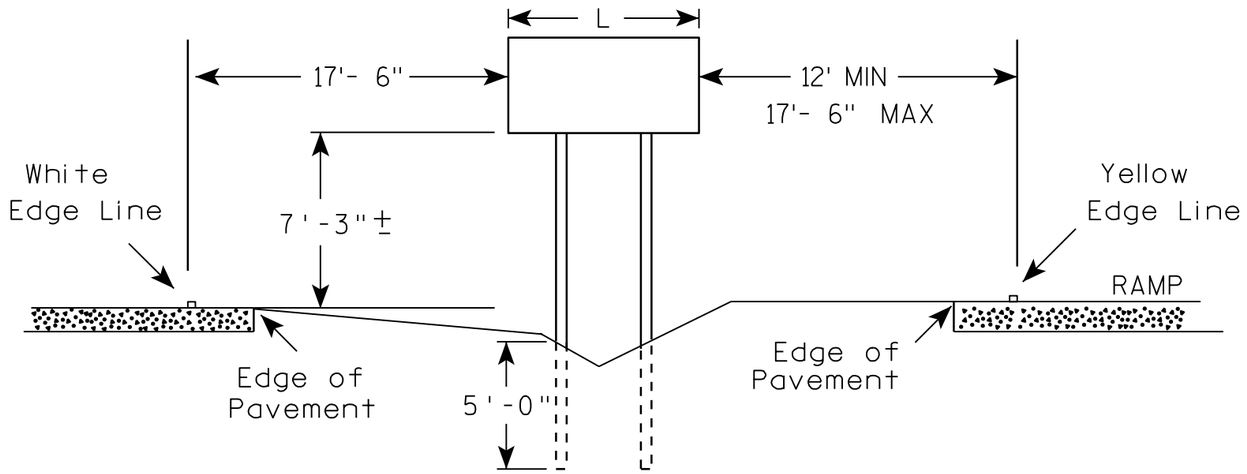
4 X 6 WOOD POST MODIFICATIONS

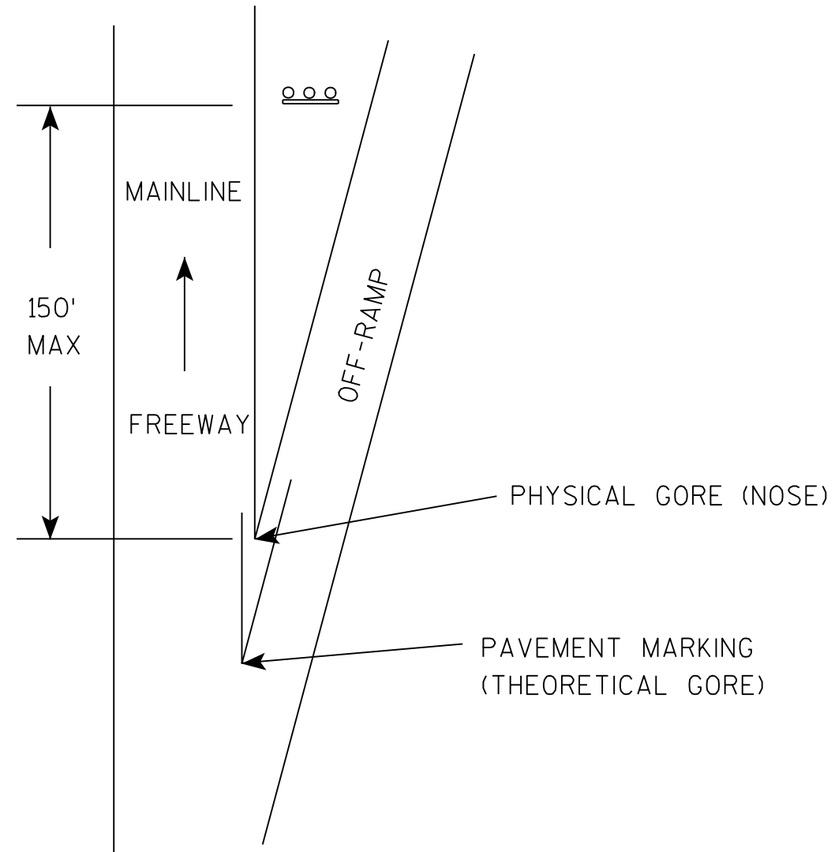
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 232	E





GENERAL NOTES

1. The 150 foot distance from the physical gore (where pavement ends) will normally provide the offsets as shown.
2. If roadway geometrics permit, the sign may be closer than the 150 foot distance as long as the offsets are maintained.
3. At no time shall the location be greater than 150 feet. If the normal offsets cannot be maintained, they can be reduced to 6 feet from the edge of the paved shoulder (both freeway and ramp).
4. The offset from edge of sign to the yellow edge line on the ramp is shown as a minimum of 12 feet and a maximum of 17 feet, 6 inches. Preference is adhering to the maximum rather than the minimum dimension.
5. When L is equal to or exceeds 9 feet, use 3 posts as per A4-4.
6. The (∓) tolerance for the mounting height is 3 inches.

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TYPICAL INSTALLATION
OF TYPE II SIGNS ON
WOOD POSTS IN GORE

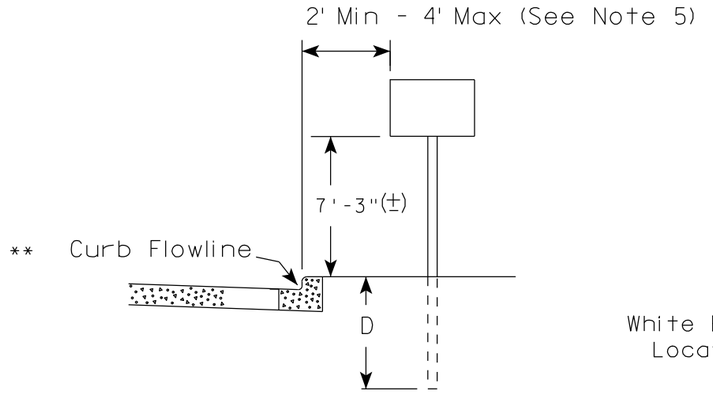
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang
for State Traffic Engineer

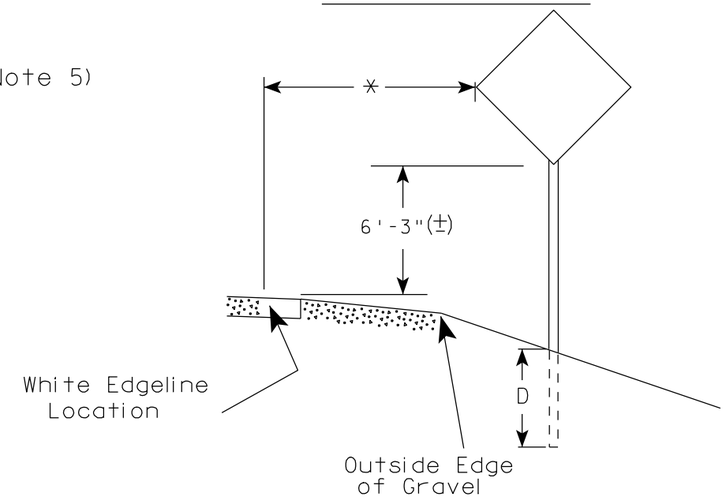
DATE 4/4/00 PLATE NO. A4-2.2

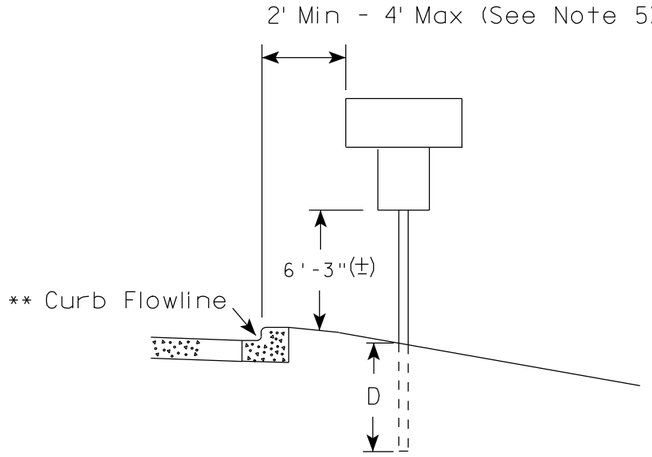
PROJECT NO:				SHEET NO: 233	E

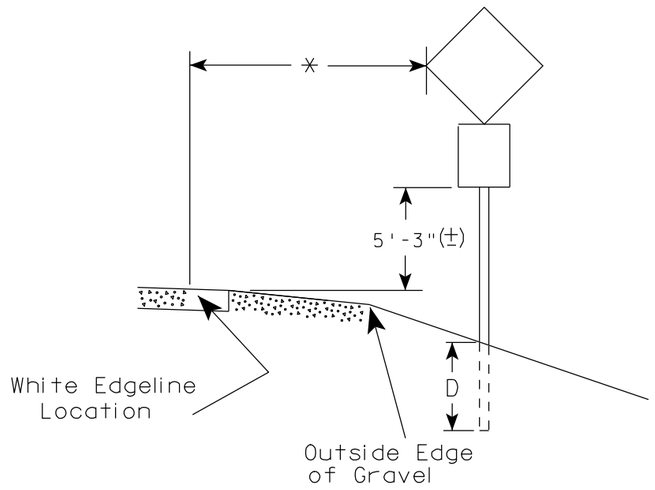
URBAN AREA



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 or larger than 20 sq. ft. shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for J assemblies (A4-5) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (±) or as directed by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (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" (±).

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

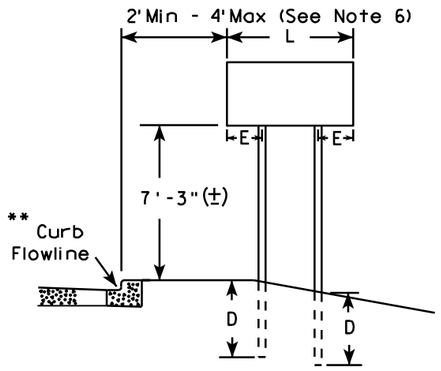
DATE 9/21/2011 PLATE NO. A4-3.16

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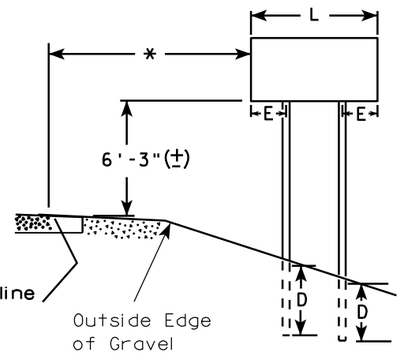
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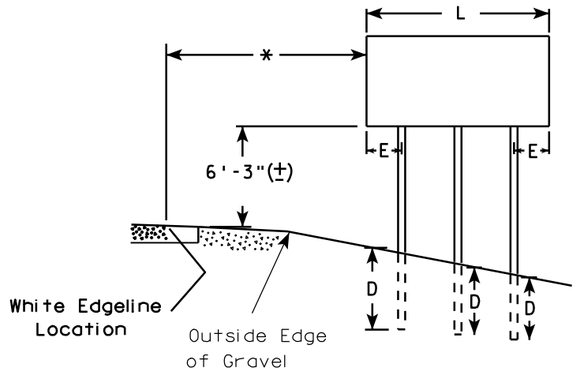
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 234 | E

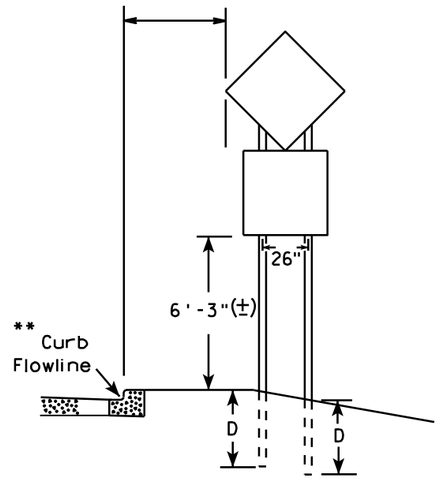
URBAN AREA



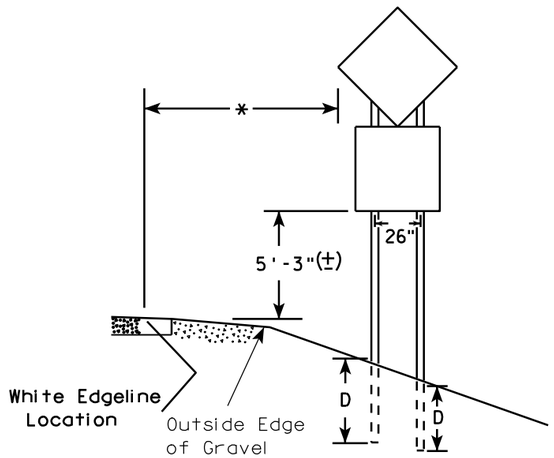
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

***	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
	L	E
	Greater than 48" Less than 60"	12"
	60" to 120"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 120" less than 168"	12"

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)	
L	E
168" and greater	12"

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. For multiple post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. Minimum mounting height for J assemblies (A4-5) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (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 20 S.F. or less in area.

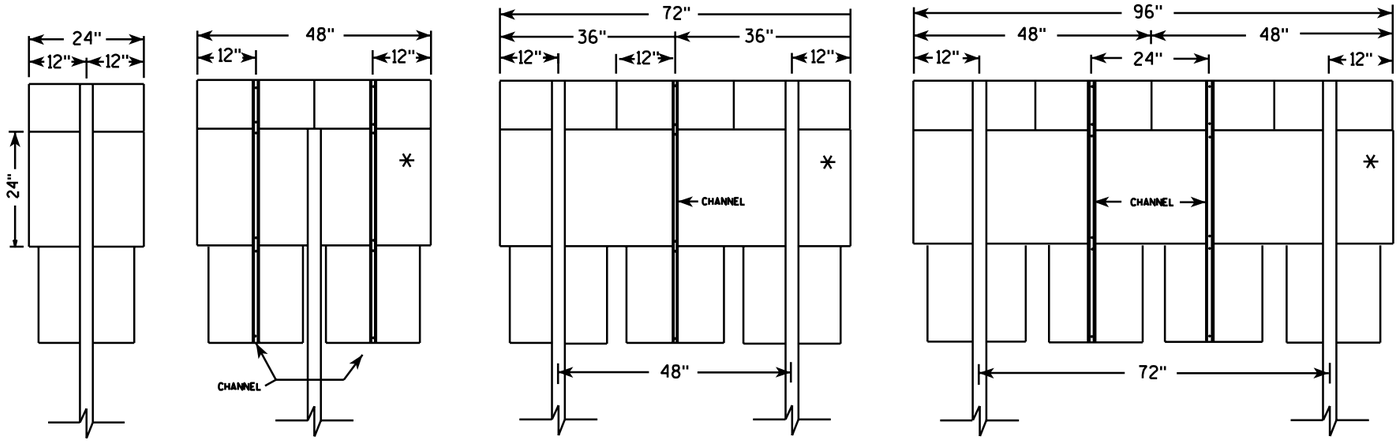
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/21/2011 PLATE NO. A4-4.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 235	E



24" MARKER DETAIL

NOTES:

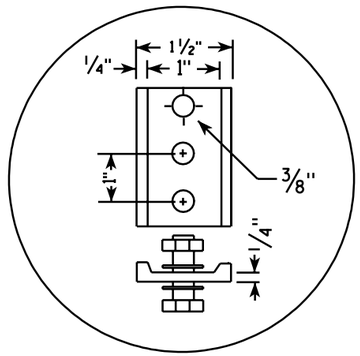
1. Post spacing shall be according to this detail but post embedment depth shall be in accordance with A4-4.
2. Channel material shall be as specified in Section 633 of Std. Specs. and weight shall be approx. 1.4 lbs/ft.
3. Base material for a multiple marker head panel (*) shall be one piece high density overlay plywood. All other materials within the assembly can be either plywood or aluminum.

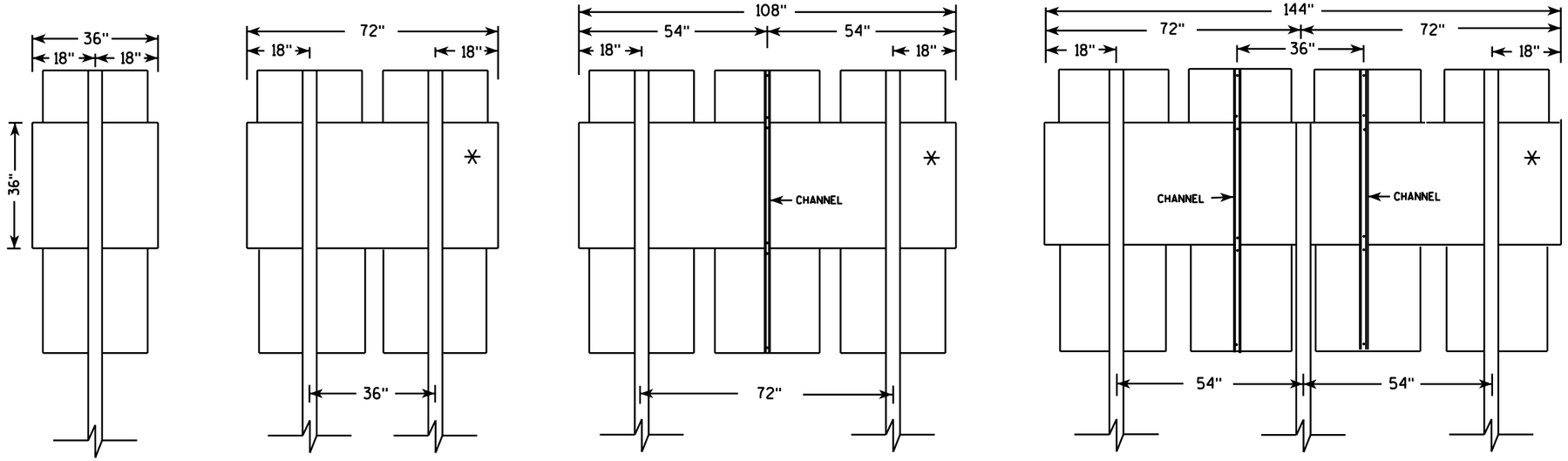
CHANNEL HARDWARE:

Aluminum Sign components: -1/4" x 3/4" bolt and 1/4" flat washers

Plywood Sign Components: -1/4" x 1 1/4" bolt and 1/4" flat washers

CHANNEL DETAIL





36" MARKER DETAIL

TYPICAL PANEL INSTALLATION FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spong for State Traffic Engineer

DATE 10/28/96 PLATE NO. A4-5.4

PROJECT NO:

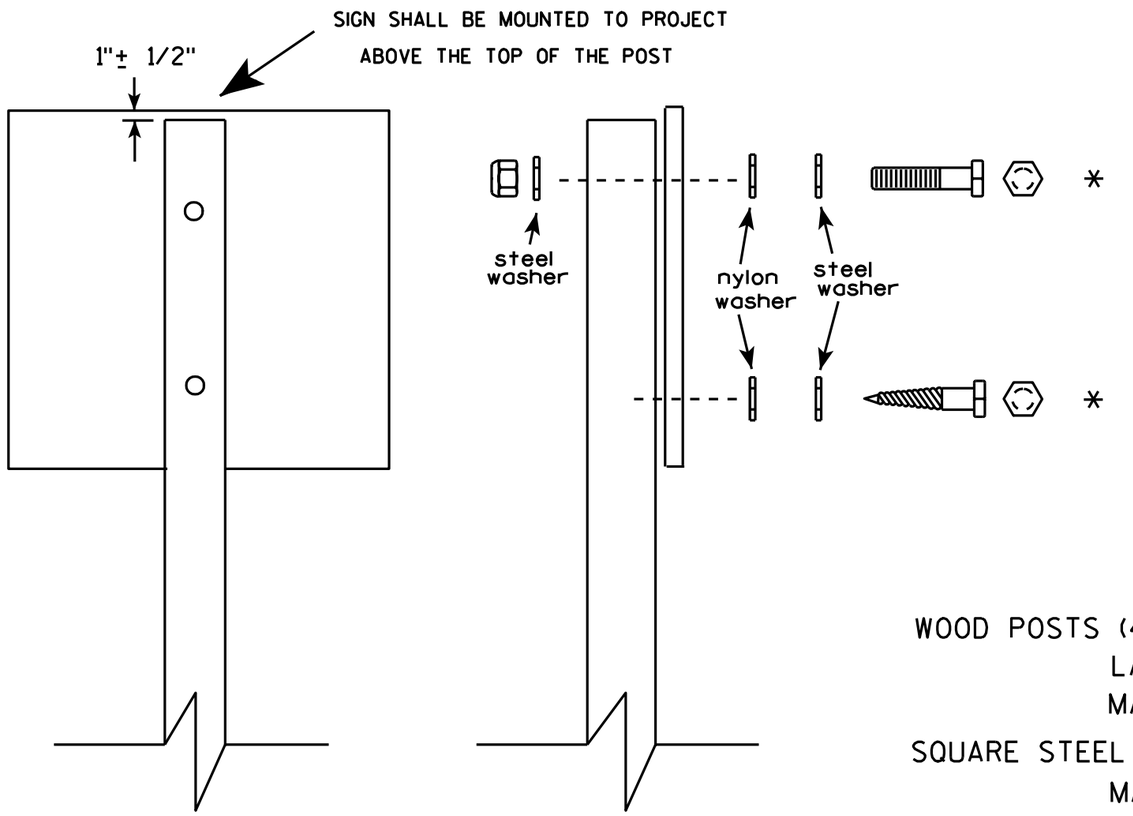
SHEET NO: 236 E

FILE NAME : C:\Users\Projects\tr_stdplate\A45.DGN PLOT DATE : 18-OCT-2005 11:00 PLOT BY : DOTSJA

WISDOT/CADDS SHEET 42

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

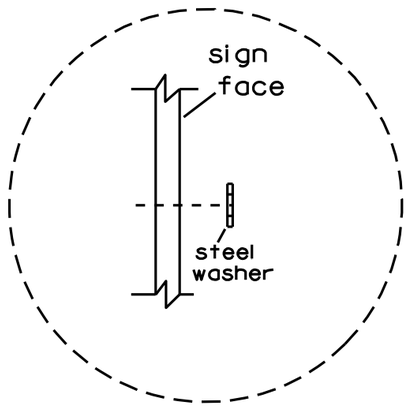
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

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.

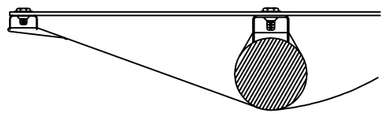
ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

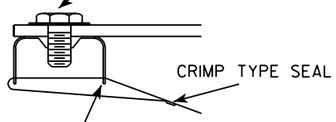
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/23/10 PLATE NO. A4-8.7

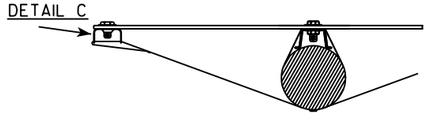
BRACE BANDING

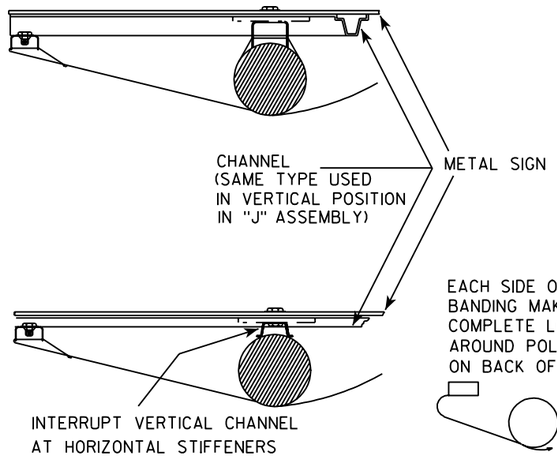


DETAIL C
CADMIUM PLATED STEEL BOLT
THROUGH BLACK BORDER



DETAIL C

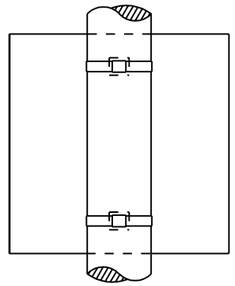


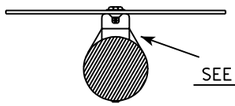


EACH SIDE OF BRACE
BANDING MAKES ONE
COMPLETE LOOP
AROUND POLE-SEAL
ON BACK OF POLE

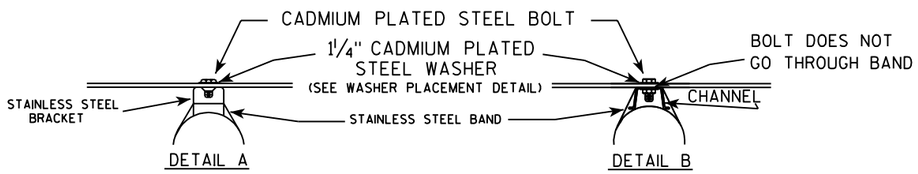
BRACKET BANDING

SINGLE SIGN





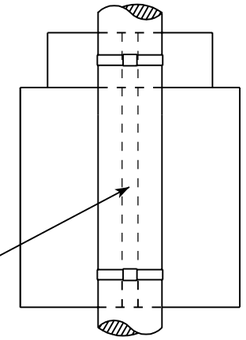
SEE DETAIL A



DETAIL A

DETAIL B

"J" ASSEMBLY

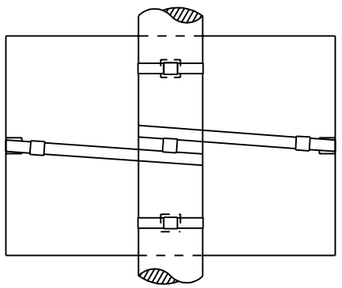


CHANNEL
SEE TYPICAL PANEL
INSTALLATION SHEET

SEE DETAIL B

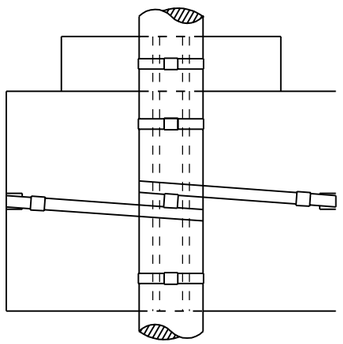
GENERAL NOTES

1. Signs 4' or greater in width shall have one brace band installed at the center of the sign.
2. Signs 3' or greater in height shall have three bracket bands installed. Signs less than 3' in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.

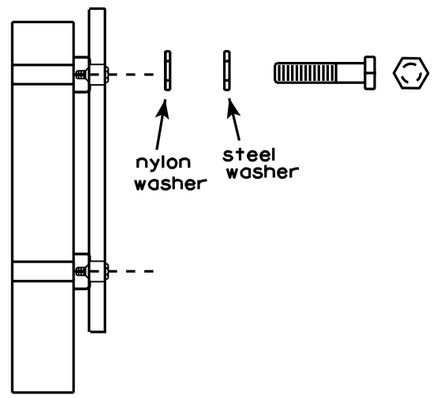


BRACE BANDING

BRACE BANDING SHALL BE TIGHTENED FIRMLY BUT NOT SO TIGHT AS TO APPRECIABLY CURVE FACE OF SIGN.



WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

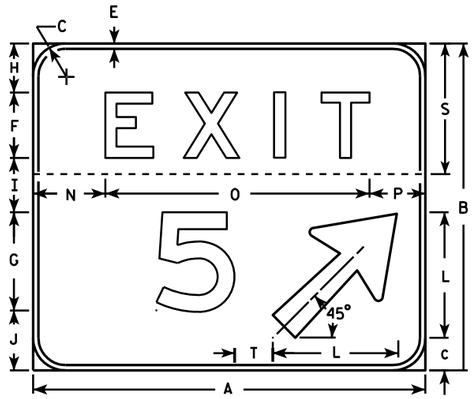
STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

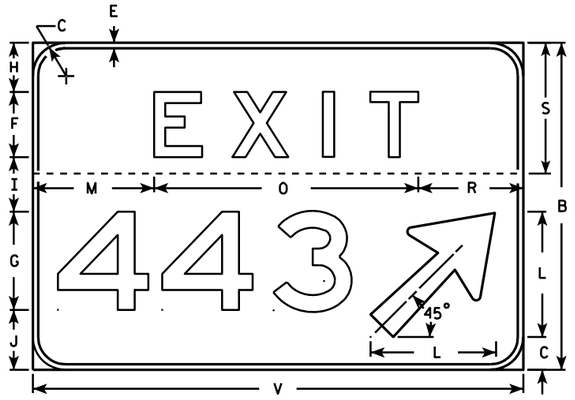
APPROVED *Matthew R Rauch*
for State Traffic Engineer

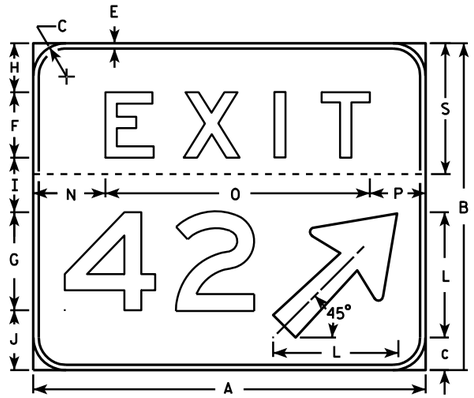
DATE 11/08/05 PLATE NO. A5-9.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 238	E



NOTE: T diminision shall be measured from the back of the number to the front of the arrow





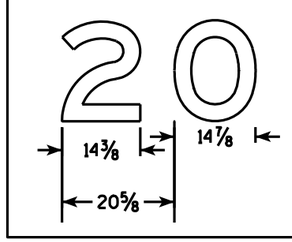
NOTES

1. Sign is Type II - Type H reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message - White (Type H reflective)
3. Message Series - E
4. Corners may be square or rounded but the border shall be rounded as shown.
5. Base material for this sign shall be plywood and shall be split into two seperate pieces as shown on each detail by the dashed line (----------).
6. Arrow is Type "A" from sign plate A1-1.
7. Substitute appropriate message, space per the table and adjust placement on sign to achieve proper balance.
8. As per the Standard Spec's, these signs shall not have a vertical joint.

SPACING CHART FOR 18" NUMERALS

NUMBERS	WIDTH	0	1	2	3	4	5	6	7	8	9	A	B	C
0	14 7/8	21 5/8	21 5/8	21 1/4	20 3/8	21 1/4	21 1/4	21 5/8	19 7/8	22 1/8	21 5/8			
1	5 7/8	14	14	14	13 1/8	12 1/8	14	14	12 1/4	14	14			
2	14 3/8	20 5/8	21 1/8	20 5/8	19 3/4	20 1/4	20 5/8	20 5/8	18 7/8	21 1/8	20 5/8			
3	14 3/8	20 3/4	21 1/8	20 3/4	20 1/4	19 3/4	20 3/4	20 3/4	19 3/8	21 1/8	20 3/4			
4	16 5/8	22 7/8	22	22 1/2	21 5/8	21 5/8	22 7/8	22 7/8	20 5/8	23 3/8	22 7/8			
5	14 1/4	20 5/8	20 5/8	20 1/8	18 3/4	18 3/4	20 5/8	20 5/8	18 3/8	20 5/8	20 5/8			
6	14 1/2	21 1/4	20 3/4	20 3/4	19 7/8	19 1/2	20 3/8	20 3/4	19	20 3/4	20 3/8			
7	14 3/8	19 3/4	19 3/4	20 1/4	19 3/4	17	19 3/4	20 5/8	18 7/8	20 5/8	19 3/4			
8	14 1/4	21 1/2	21 1/2	20 5/8	19 1/4	19 3/4	20 5/8	21 1/2	19 5/8	21 1/2	20 5/8			
9	14 1/2	21 1/4	21 1/4	20 7/8	20	20 7/8	20 7/8	21 1/4	19 1/2	21 3/4	21 1/4			
A	18	19 3/4	19 3/4	20 1/4	19 3/4	17	19 3/4	20 5/8	18 7/8	20 5/8	19 3/4	21 5/8	23 7/8	23
B	14 1/4	21 1/2	21 1/2	20 5/8	19 1/4	19 3/4	20 5/8	21 1/2	19 5/8	21 1/2	20 5/8	19 1/2	22 3/8	21 1/2
C	14 1/4	21 1/4	21 1/4	20 7/8	20	20 7/8	20 7/8	21 1/4	19 1/2	21 3/4	21 1/4	18 3/8	21	19 3/4

EXAMPLE FOR USING SPACING CHART



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
2																										
3																										
4																										
5	72	60	6		1	12	18	9	10	11	8 7/8	23	22 1/4	13 1/4	48 1/2	10 1/4		19 1/4	24	7		90		96	7 1/2	

1-2 Digit Bid Area	3 Digit Bid Area
Sq. Ft.	
30	37.5

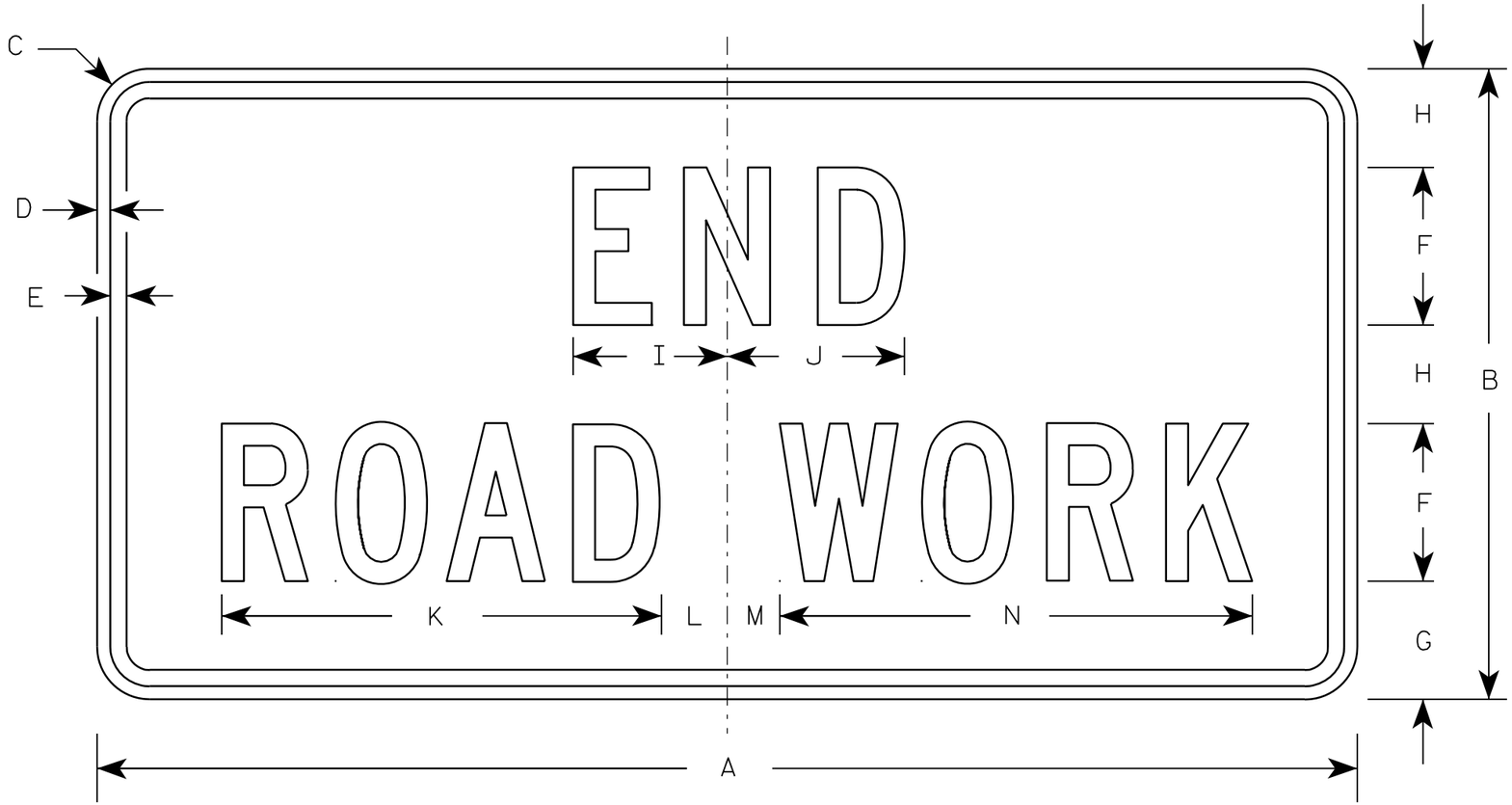
STANDARD SIGN
E5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 5/11/10 PLATE NO. E5-1A.12

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 239 | 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

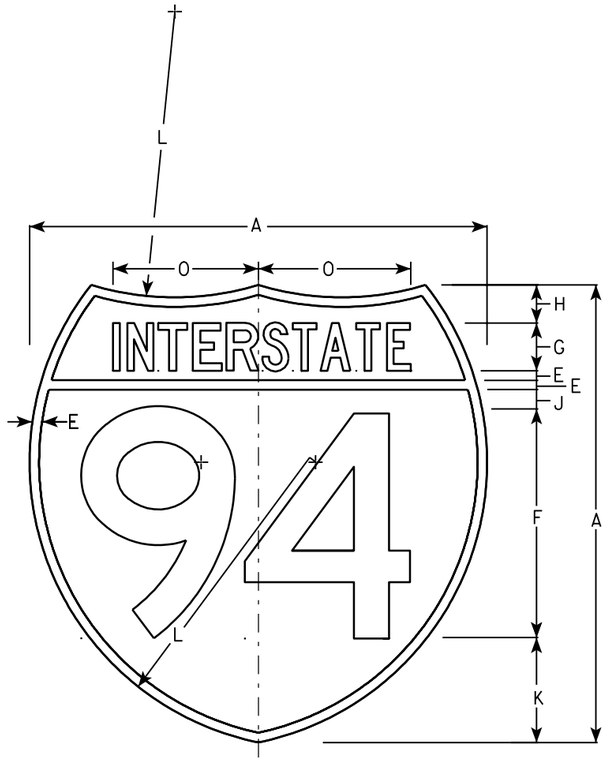
STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

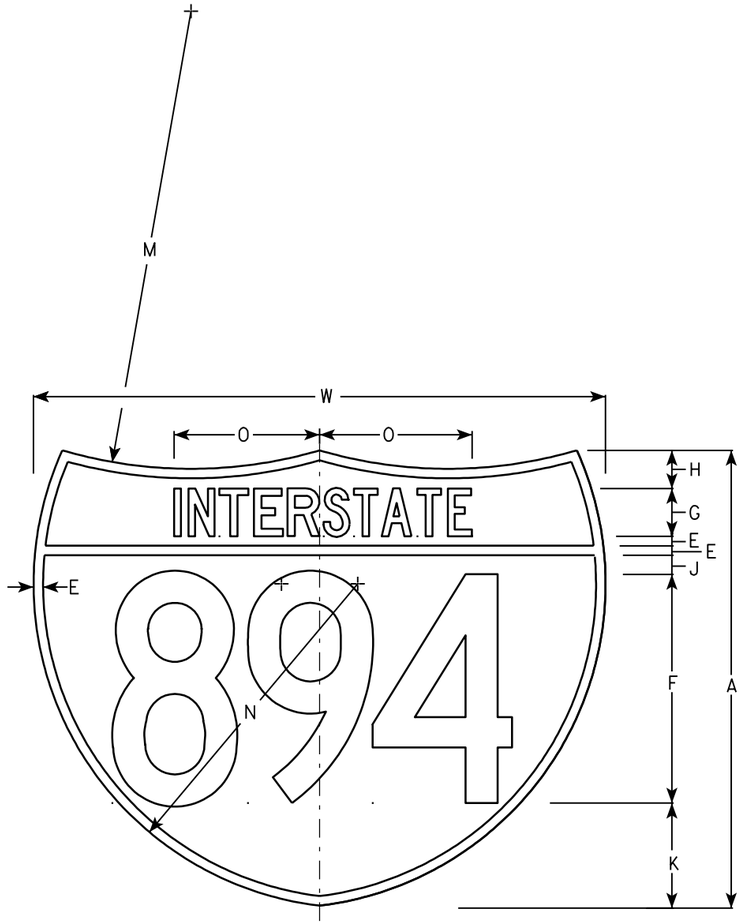
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 240	E



M1-1



M1-1A

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Top Red - Bottom Blue (See Note 6)
   Message - White - See Note 6
3. Message Series - See note 5
4. Substitute appropriate numerals & ajust spacing as per plate A10-1.
5. M1-1 - Numerals - D
   Interstate - C
   M1-1A - All copy - C
6. Permanent Signs
   Message - Type H Reflective
   Detour or other temporary signs
   Background - Reflective
   Message - Reflective

Metric equivalent for these signs are:

SIZE	M1-1	SIZE	M1-1A
1			
2	600 mm X 600 mm	2	600 mm X 750 mm
3	900 mm X 900 mm	3	900 mm X 1125 mm
4	900 mm X 900 mm	4	900 mm X 1125 mm
5	900 mm X 900 mm	5	900 mm X 1125 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	M1-1 Area sq. ft.	M1-1A Area sq. ft.	M1-1 Area m2	M1-1A Area m2
1																													
2	24				1/2	12	2 1/2	2		1	5 1/2	15	24	17	7 7/8								30			3.13	3.91	.36	.46
3	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
4	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
5	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05

INTERSTATE ROUTE MARKER
M1-1 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

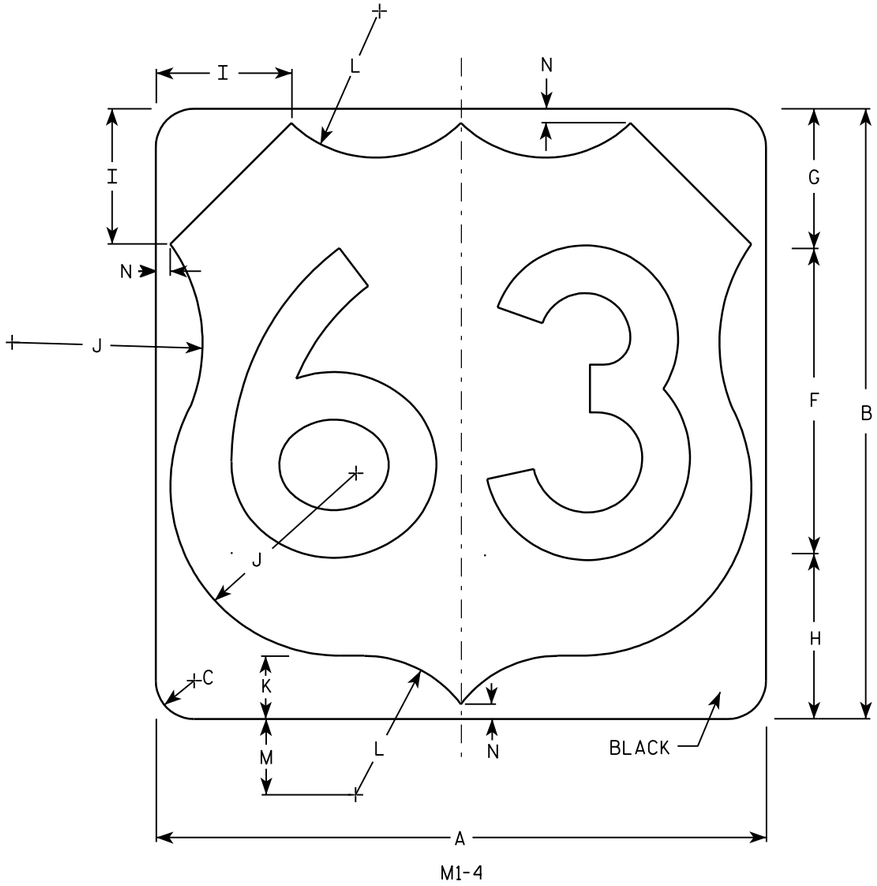
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 08/23/05 PLATE NO. M1-1.8

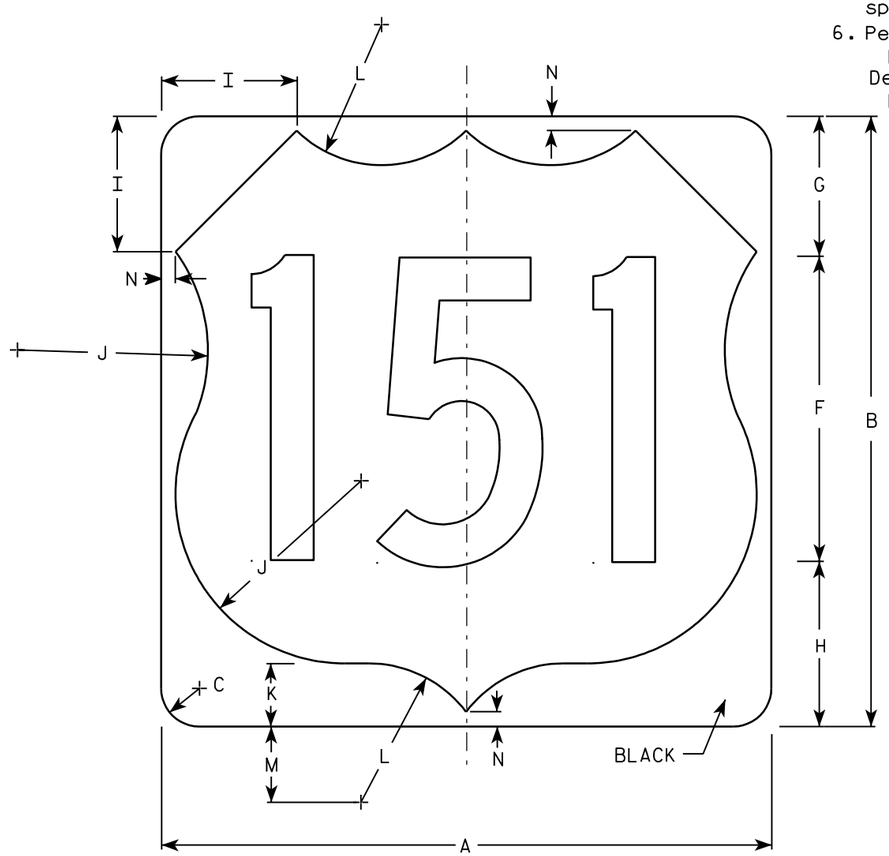
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 241	E

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

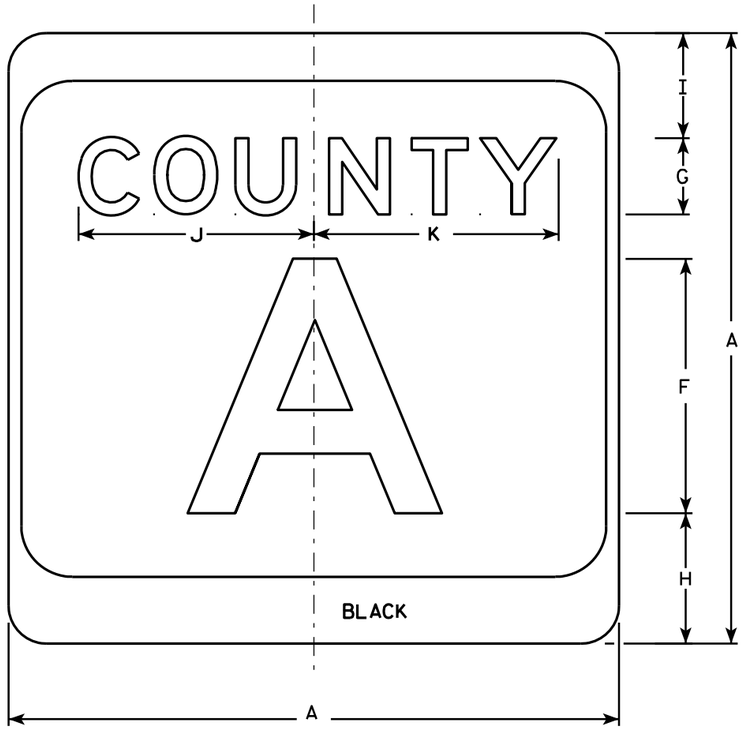
USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

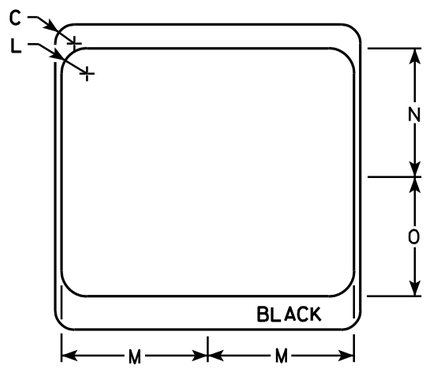
APPROVED Matthew R Rauch
for State Traffic Engineer

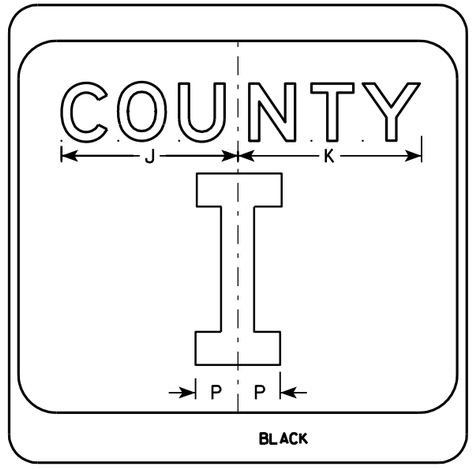
DATE 08/25/05 PLATE NO. M1-4.9

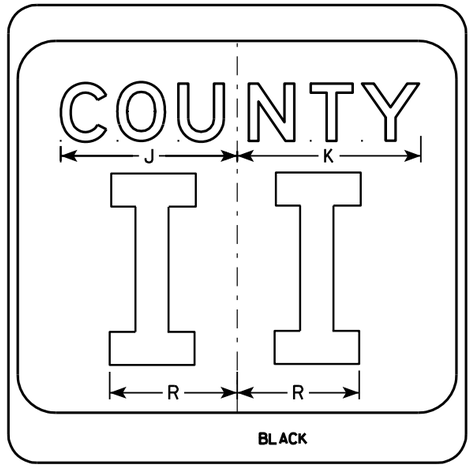
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 242 | E



M1-5A







NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 7
   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. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
   Background - Type H Reflective
   Detour or 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		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

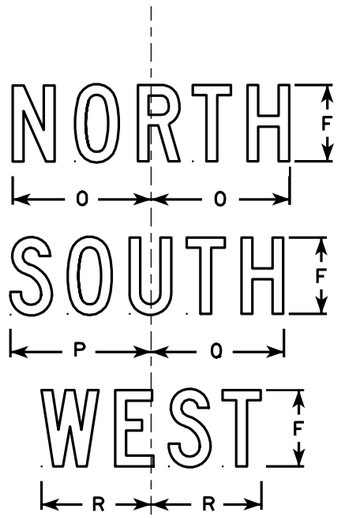
CTH MARKER
M1-5A FOR ASSEMBLIES

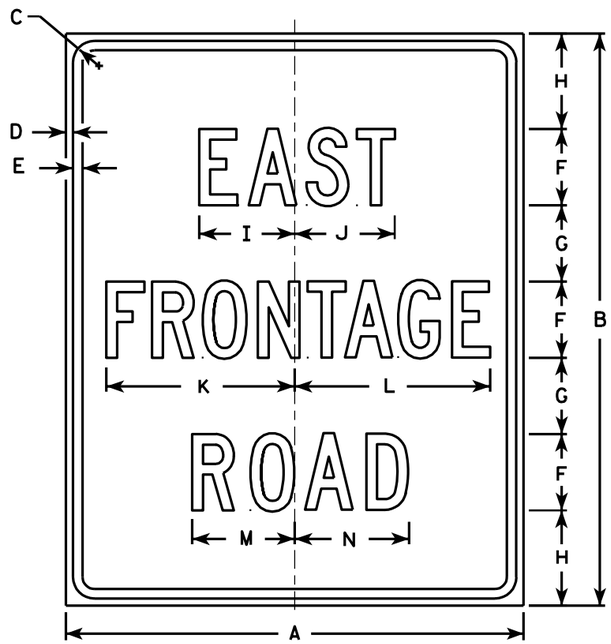
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 243	E





NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. 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. Substitute appropriate message as required.

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 750 mm
3	
4	900 mm X 1050 mm
5	

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.	Area m2
1																												
2	24	30	1 1/8	3/8	1/2	4	4	5	5	5 1/4	9 7/8	10 1/4	5 3/8	6	7 1/4	7 3/8	7	5 3/4									5.0	.45
3																												
4	36	42	1 3/8	5/8	5/8	6	5	7	7 1/2	7 7/8	14 3/4	15 3/8	8	9	10 7/8	11	10 1/2	8 5/8									10.5	.95
5																												

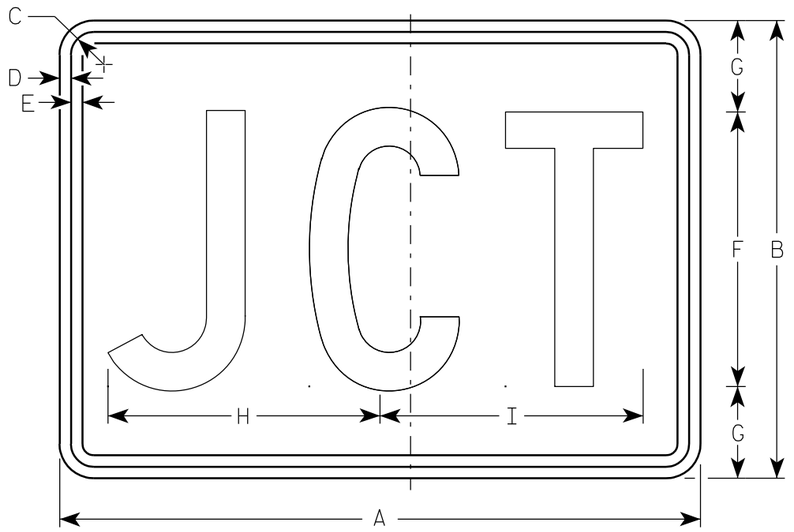
STANDARD SIGN
M1-95A

WISCONSIN DEPT OF TRANSPORTATION

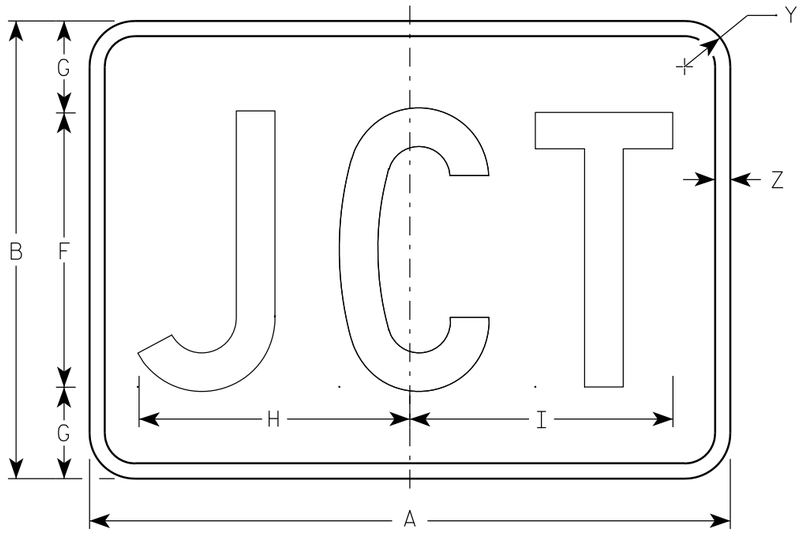
APPROVED Chester J Spang for State Traffic Engineer

DATE 1/30/02 PLATE NO. M1-95A.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 244	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

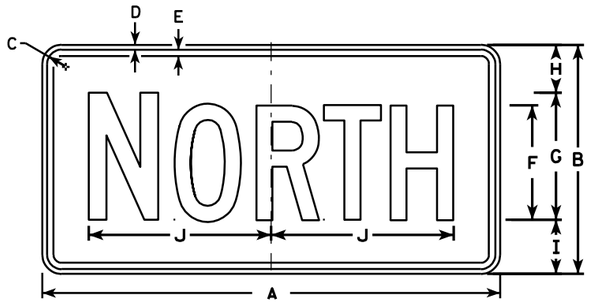
STANDARD SIGN
M2-1

WISCONSIN DEPT OF TRANSPORTATION

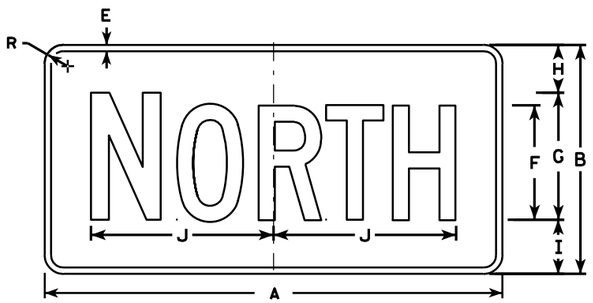
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/10 PLATE NO. M2-1.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 245	E



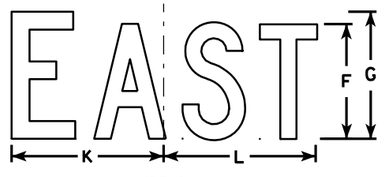
M3-1
MK3-1
MO3-1



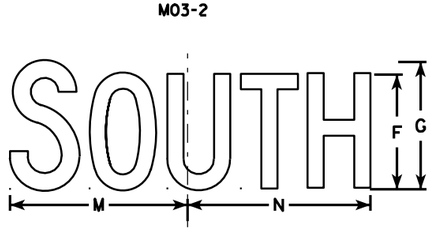
MB3-1
MG3-1
MM3-1
MN3-1



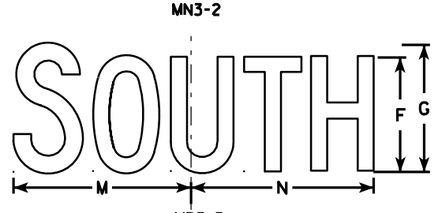
M3-2
MK3-2
MO3-2



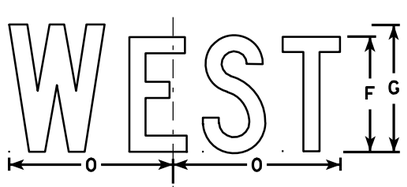
MB3-2
MG3-2
MM3-2
MN3-2



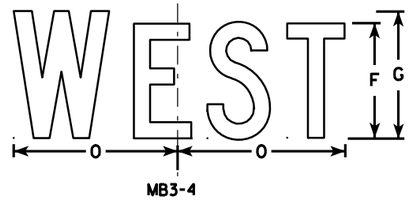
M3-3
MK3-3
MO3-3



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

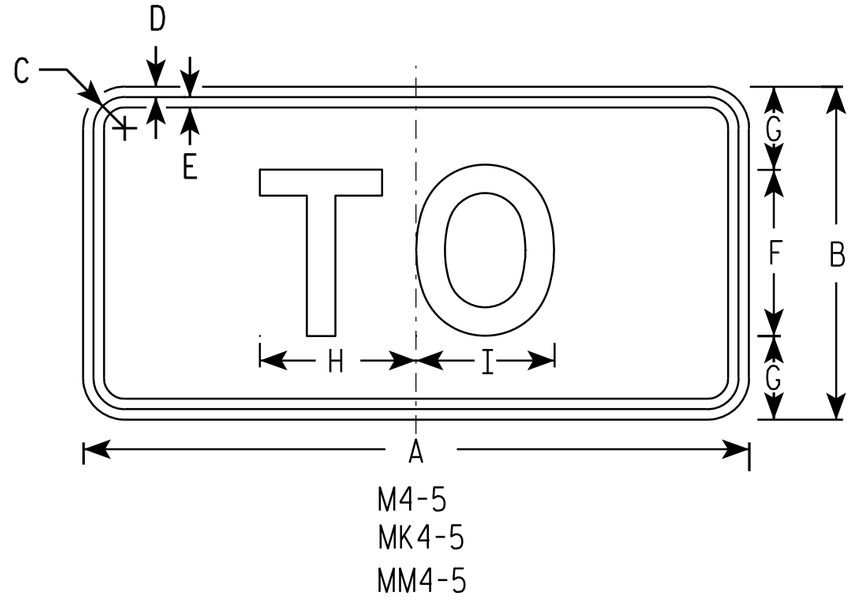
STANDARD SIGNS
M3-1 thur M3-4
SERIES

WISCONSIN DEPT OF TRANSPORTATION

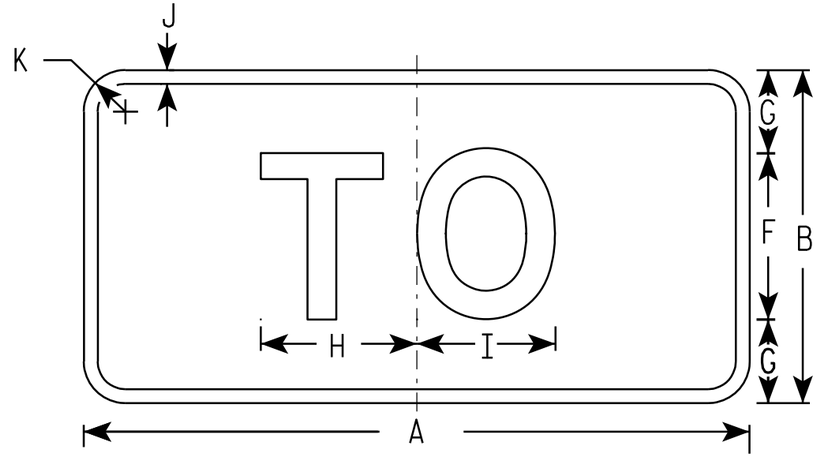
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 11/10/10 PLATE NO. M3-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 246	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

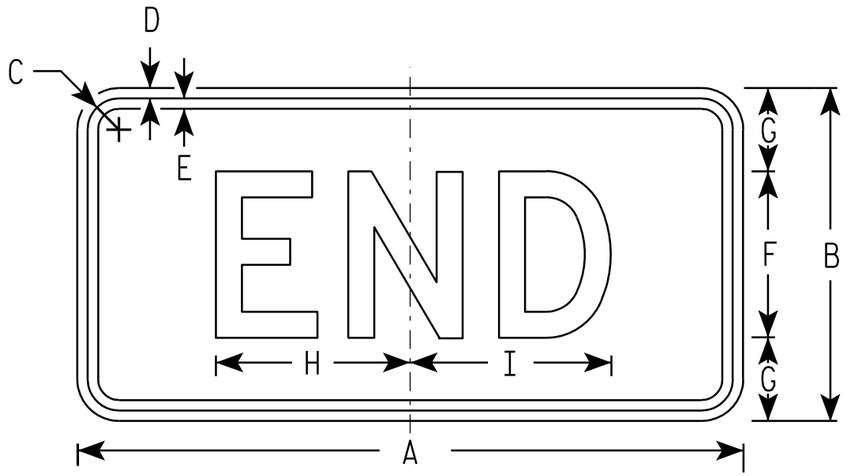
STANDARD SIGN
M4-5

WISCONSIN DEPT OF TRANSPORTATION

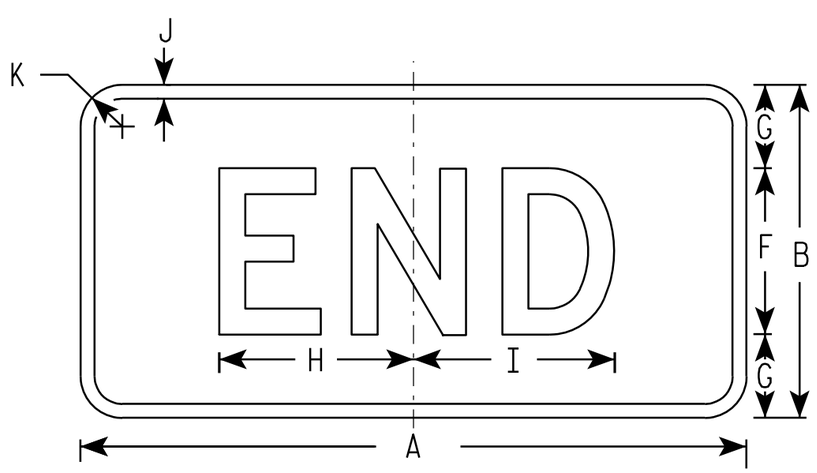
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-5.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 247 | E



M4-6
MK4-6
MM4-6
MR4-6



MB4-6
MG4-6
MN4-6

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 - 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. M4-6 Background - White - Type H Reflective (Detour or temporary Signs - Reflective)
   Message - Black

   MB4-6 Background - Blue
   Message - White - Type H Reflective (Detour or temporary Signs - Reflective)

   MG4-6 Background - Green
   Message - White - Type H Reflective

   MK4-6 Background - Green
   Message - White - Type H Reflective

   MM4-6 Background - White - Type H Reflective
   Message - Green

   MN4-6 Background - Brown
   Message - White - Type H Reflective

   MR4-6 Background - Brown
   Message - Yellow - 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	7	7 1/4	1/2	1 1/2																2.00
3	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 7/8	1/2	1 1/2																4.5
4	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 7/8	1/2	1 1/2																4.5
5	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 7/8	1/2	1 1/2																4.5

STANDARD SIGN
M4-6

WISCONSIN DEPT OF TRANSPORTATION

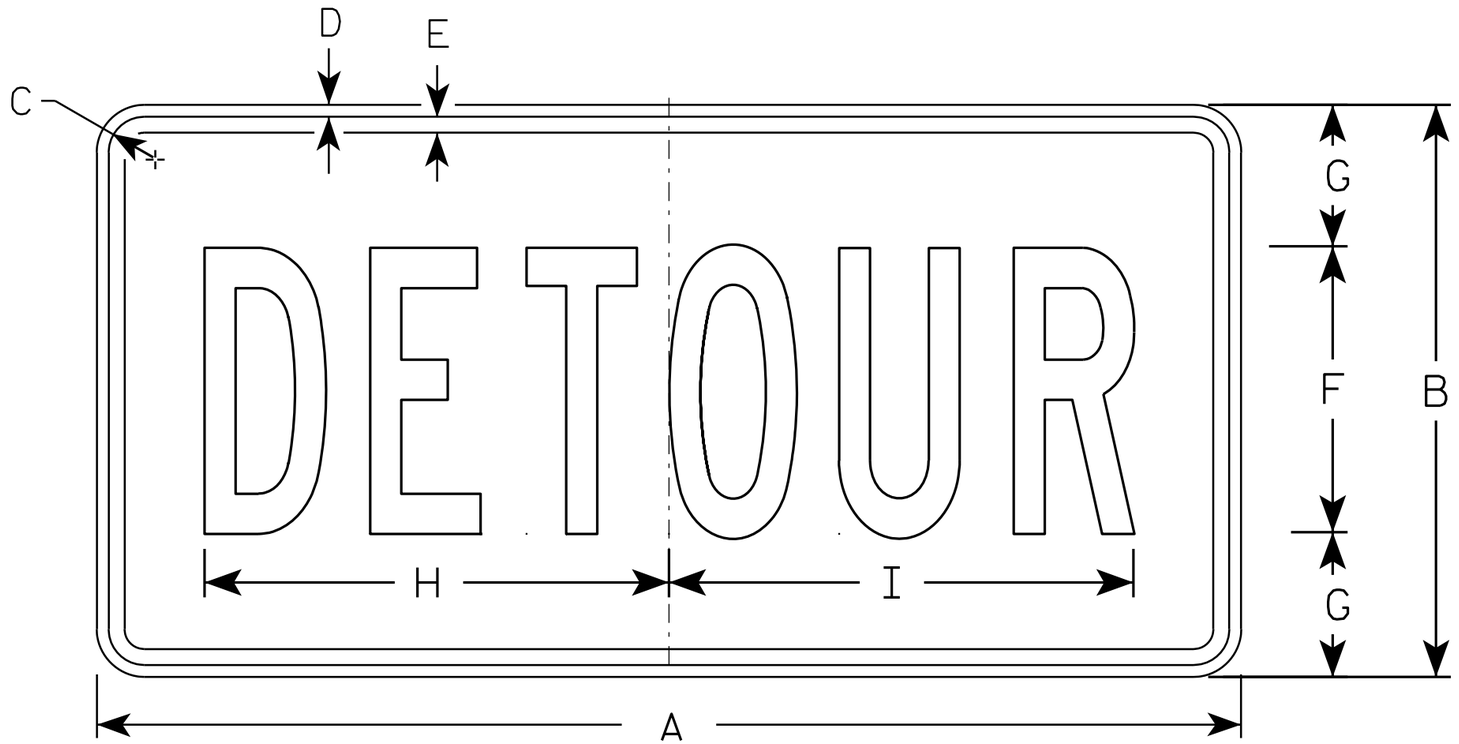
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-6.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 248 | E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\M46.DGN PLOT DATE : 10-NOV-2010 12:57 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																											

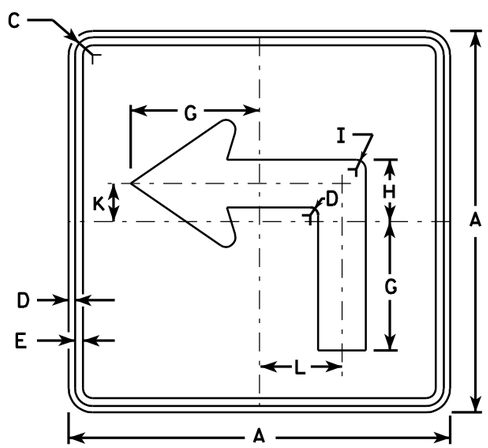
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

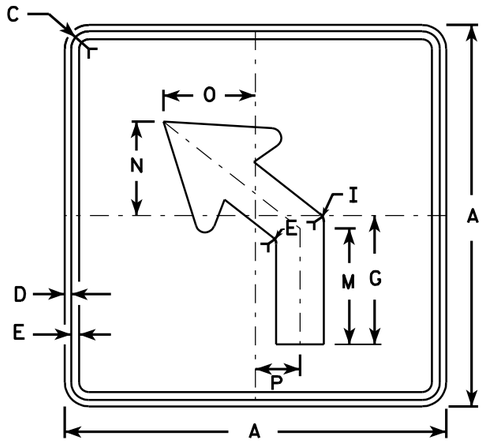
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-8.2

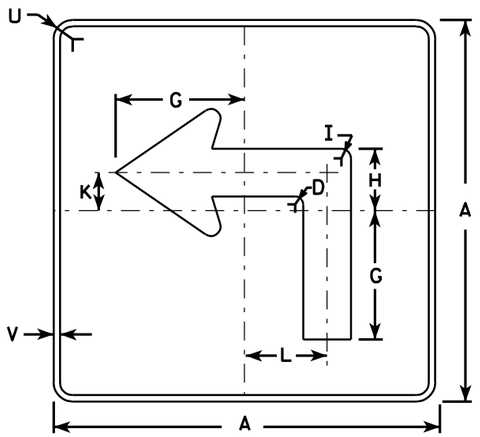
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 249	E



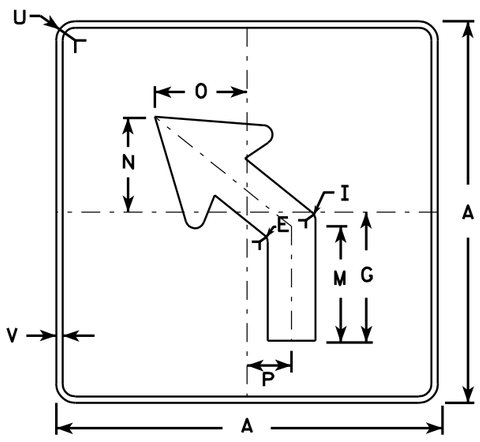
M5-1L
MK5-1L
MM5-1L
MO5-1L
MR5-1L



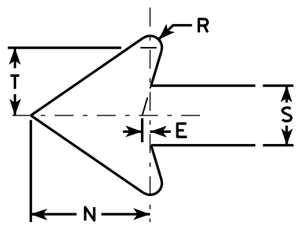
M5-2L
MK5-2L
MM5-2L
MO5-2L
MR5-2L



MB5-1L
MG5-1L
MN5-1L



MB5-2L
MG5-2L
MN5-2L



NOTES

1. Signs are Type II - See Note 4 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White - Type H Reflective (Detour or temporary Signs - Reflective) Message - Black
   MB5-1 and MB5-2 Background - Blue Message - White - Type H Reflective (Detour or temporary Signs - Reflective)
   MG5-1 and MG5-2 Background - Green Message - White - Type H Reflective
   MK5-1 and MK5-2 Background - Green Message - White Type H Reflective
   MM5-1 and MM5-2 Background - White - Type H Reflective Message - Green
   MN5-1 and MN5-2 Background - Brown Message - White - Type H Reflective
   MO5-1 and MO5-2 Background - Orange - Reflective Message - Black
   MR5-1 and MR5-2 Background - Brown Message - Yellow - Type H Reflective
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

Metric equivalent for this sign is:

SIZE	
1	
2	525 mm X 525 mm
3	750 mm X 750 mm
4	750 mm X 750 mm
5	750 mm X 750 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06	0.28
3	30		1 3/8	1/2	5/8		10 1/8	4 1/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25	0.56
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25	0.56
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25	0.56

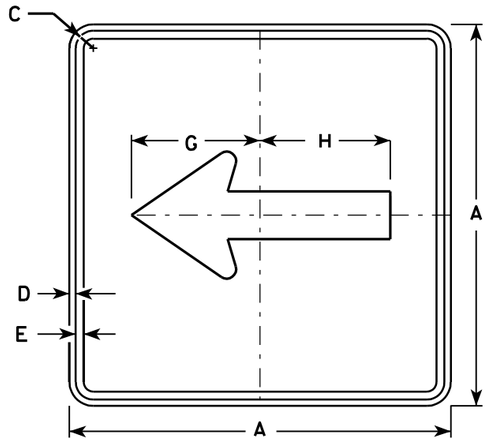
STANDARD SIGN
M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

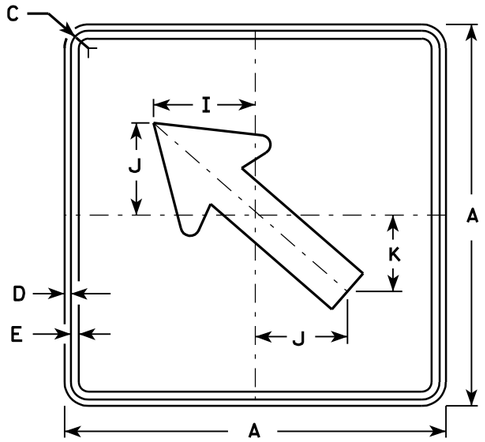
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/10 PLATE NO. M5-1.11

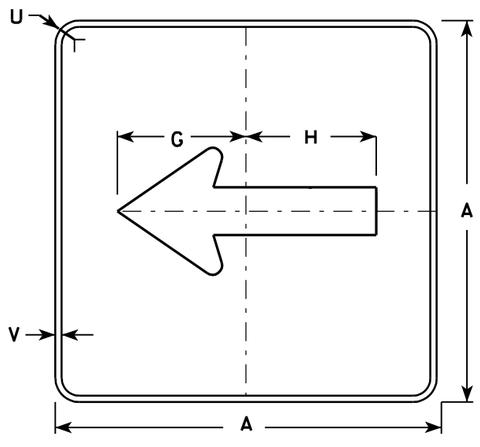
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 250	E



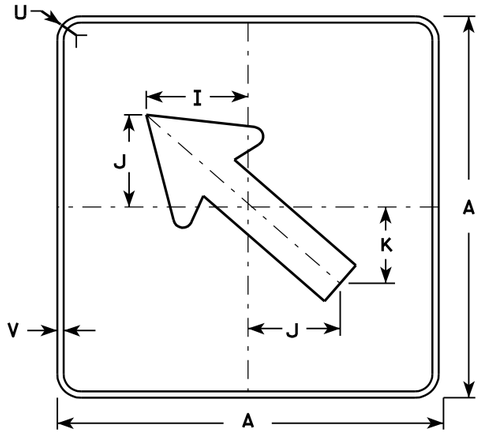
M6-1
MK6-1
MM6-1
MO6-1
MR6-1



M6-2
MK6-2
MM6-2
MO6-2
MR6-2



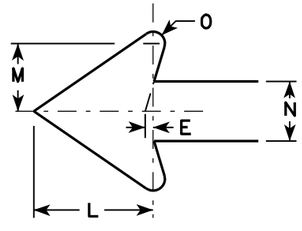
MB6-1
MG6-1
MN6-1



MB6-2
MG6-2
MN6-2

NOTES

1. Signs are Type II - See Note 4 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White - Type H Reflective (Detour or temporary Signs - Reflective) Message - Black
   MB6-1 and MB6-2 Background - Blue Message - White - Type H Reflective (Detour or temporary Signs - Reflective)
   MG6-1 and MG6-2 Background - Green Message - White - Type H Reflective
   MK6-1 and MK6-2 Background - Green Message - White - Type H Reflective
   MM6-1 and MM6-2 Background - White - Type H Reflective Message - Green
   MN6-1 and MN6-2 Background - Brown Message - White - Type H Reflective
   MO6-1 and MO6-2 Background - Orange - Reflective Message - Black
   MR6-1 and MR6-2 Background - Brown Message - Yellow - Type H Reflective



Metric equivalent for this sign is:

SIZE	
1	
2	525 mm X 525 mm
3	750 mm X 750 mm
4	750 mm X 750 mm
5	750 mm X 750 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06	0.28
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56

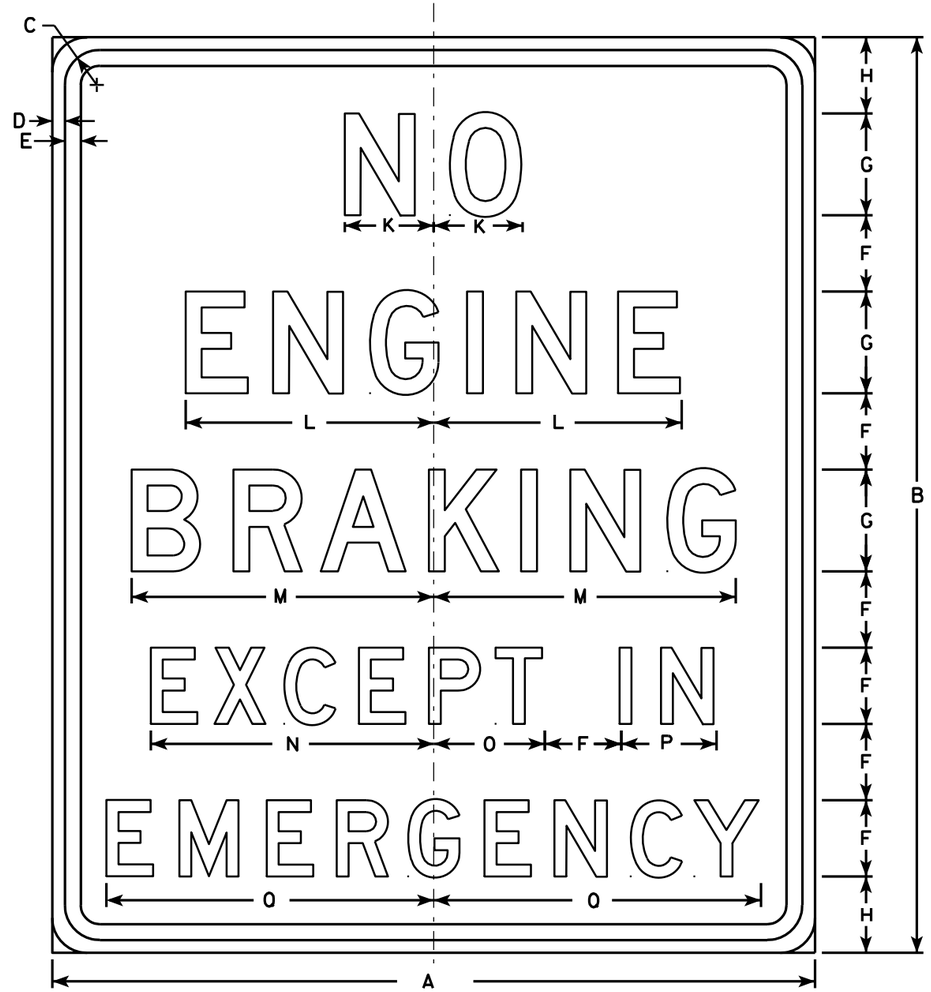
STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

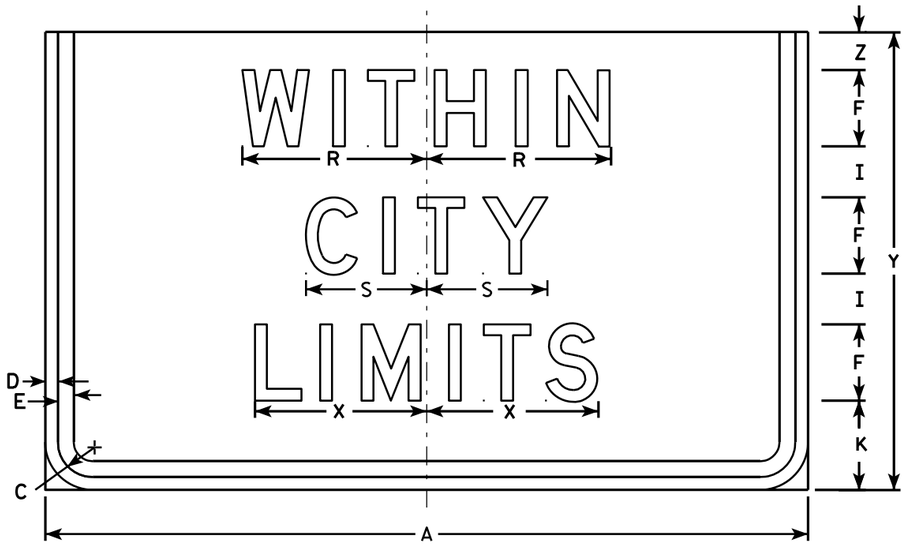
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/10 PLATE NO. M6-1.12

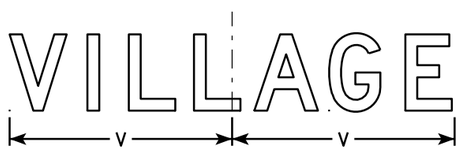
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 251	E



R10-64



R10-64F



Area sq. ft.
3.75
7.0



NOTES

1. Signs are 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 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. Line 2 of R10-64F is Series C for "TOWNSHIP" Only

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	36	1 3/8	1/2	5/8	3	4	3	2		3 1/2	9 3/4	11 7/8	11 1/8	4 3/8	3 3/4	12 7/8	7 1/4	4 3/4		8 1/4	8 3/4	5/8	6 3/4	18	1 1/2	7.5
2S	30	36	1 3/8	1/2	5/8	3	4	3	2		3 1/2	9 3/4	11 7/8	11 1/8	4 3/8	3 3/4	12 7/8	7 1/4	4 3/4		8 1/4	8 3/4	5/8	6 3/4	18	1 1/2	7.5
2M	30	36	1 3/8	1/2	5/8	3	4	3	2		3 1/2	9 3/4	11 7/8	11 1/8	4 3/8	3 3/4	12 7/8	7 1/4	4 3/4		8 1/4	8 3/4	5/8	6 3/4	18	1 1/2	7.5
3	42	48	1 3/8	1/2	5/8	4	5	4 1/2	3		4	12 1/4	14 7/8	14 1/8	5 1/4	4 3/4	16 1/4	9	6		11	11 1/4	1 1/2	8 1/2	24	2	14.0
4																											
5																											

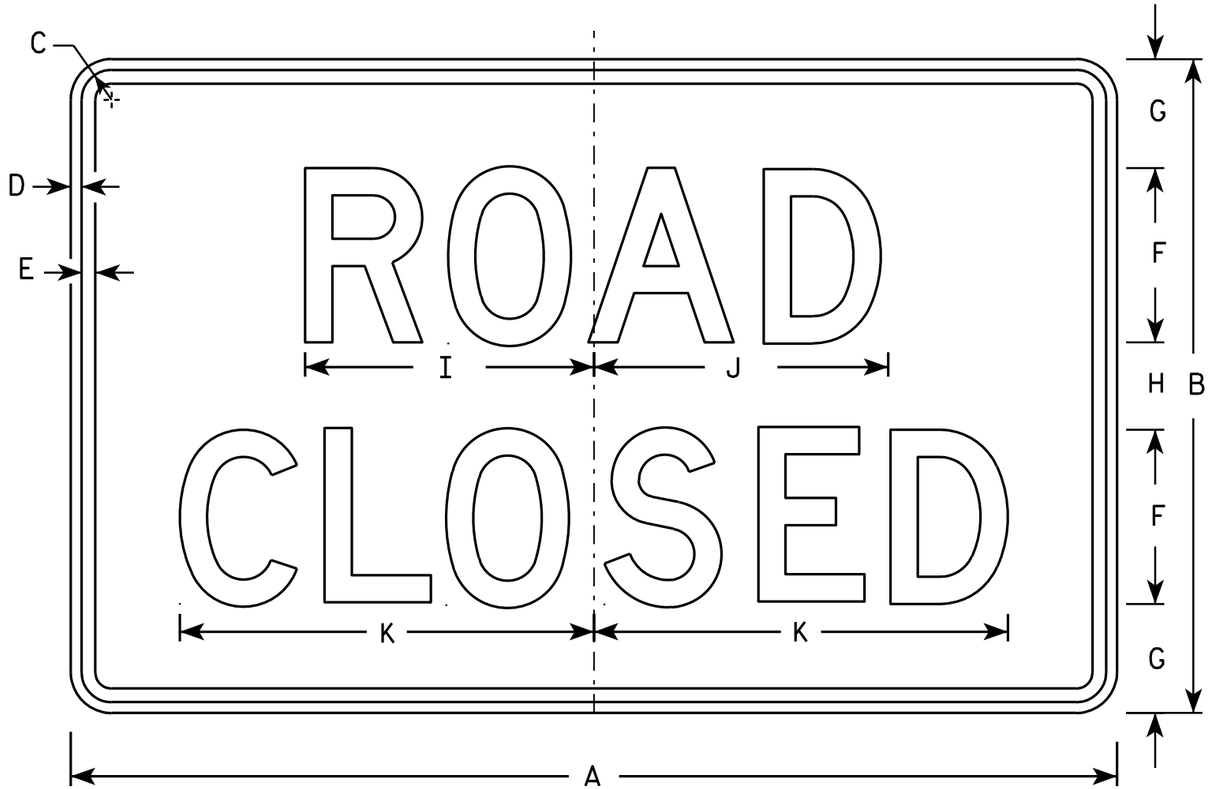
STANDARD SIGN
R10-64 & R10-64F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/4/11 PLATE NO. R10-64.7

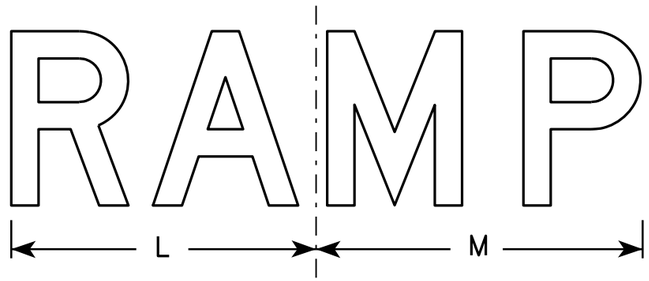
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 252 | E



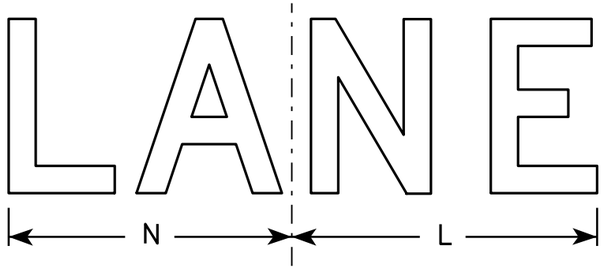
R11-2

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

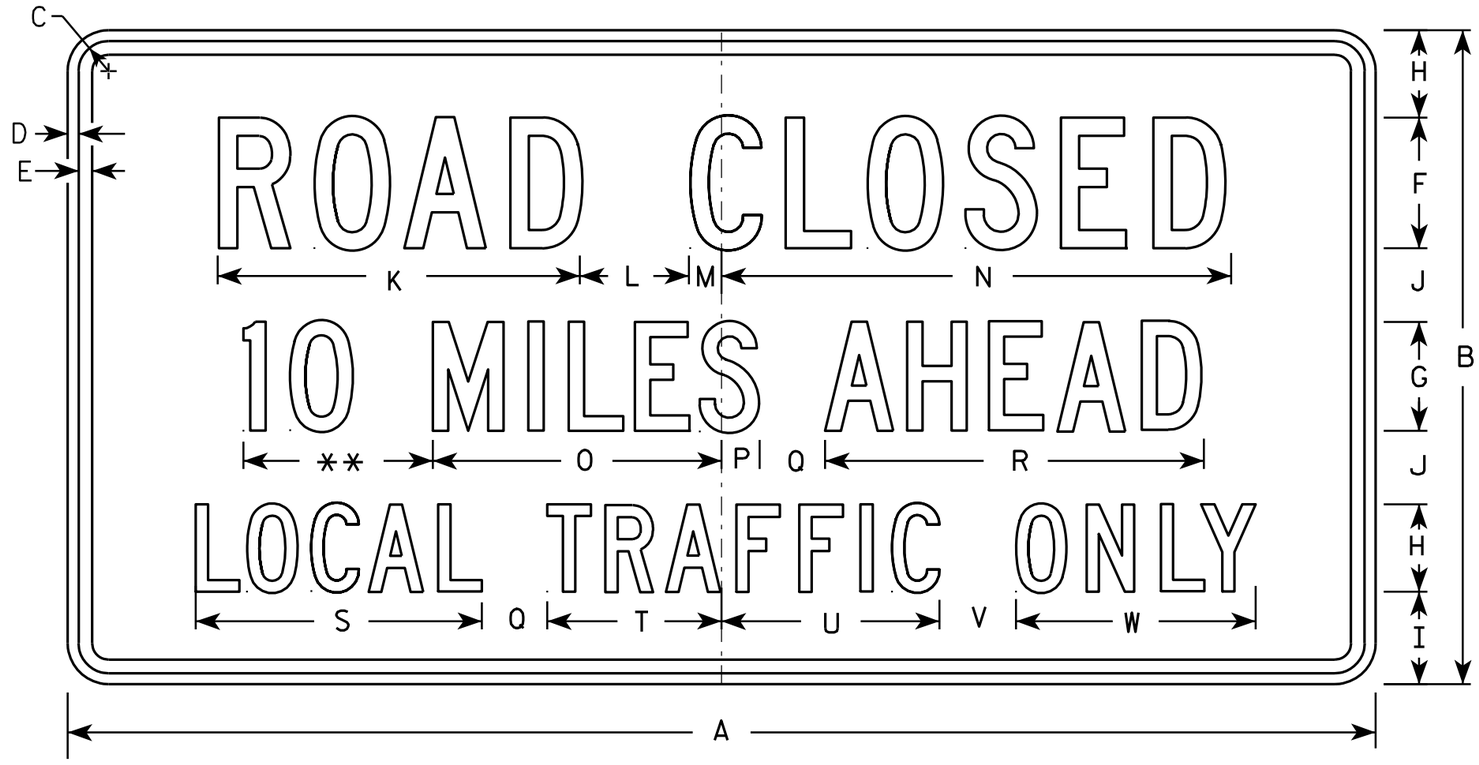
STANDARD SIGN
R11-2

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: 253 | E



R11-3

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - 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. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

** See Note 5

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	18	1 3/8	1/2	5/8	4	3	2 1/2	2	2	11 1/8	3	1 1/8	15 1/4	8	1 1/2	2	10 3/4	8 3/8	4 3/4	6 1/2	2	6 3/4				4.5
2S	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	16 5/8	5	1 1/2	23	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11				12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	16 5/8	5	1 1/2	23	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11				12.5
3																											
4																											
5																											

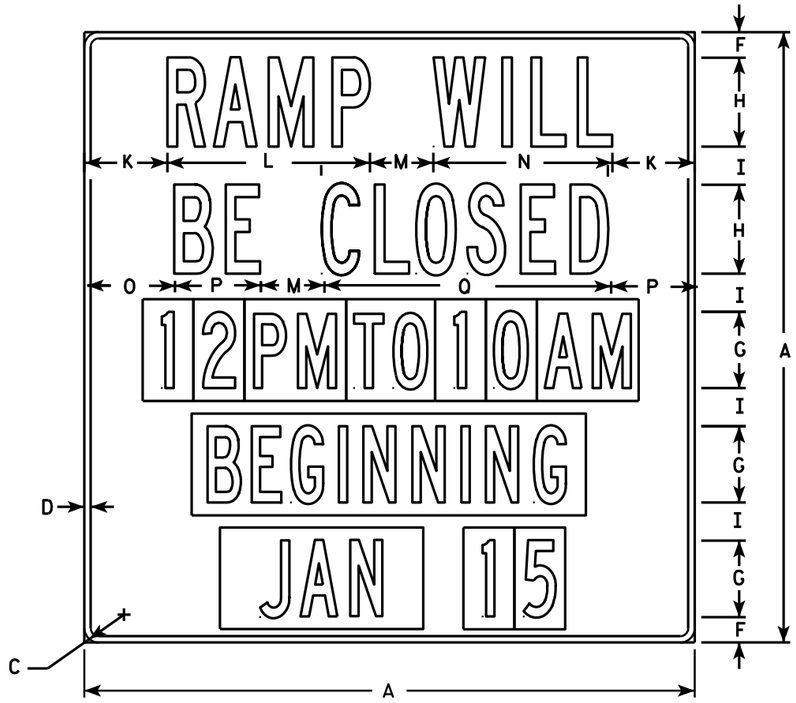
STANDARD SIGN
R11-3

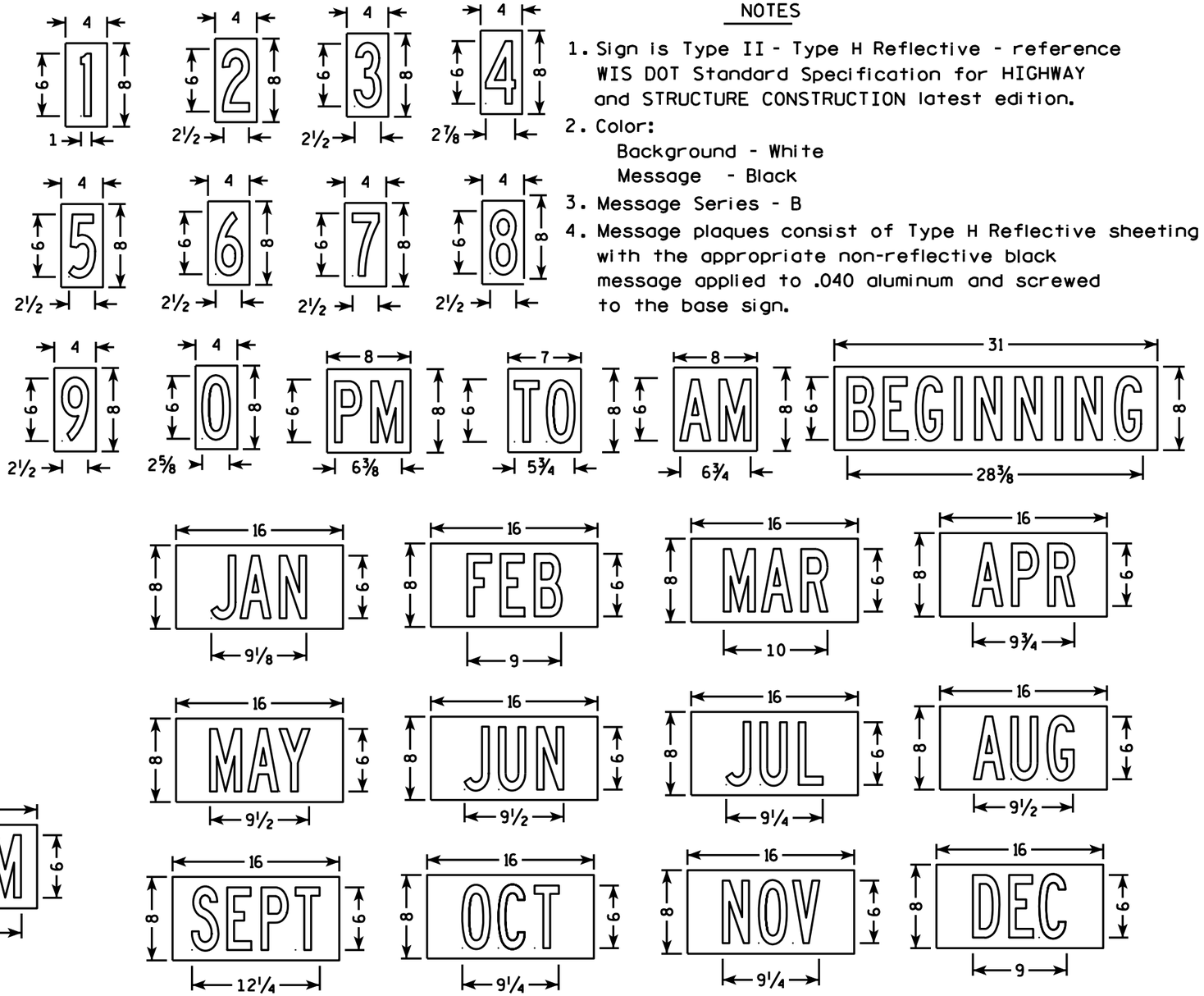
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-3.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 254	E





NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - B
4. Message plaques consist of Type H Reflective sheeting with the appropriate non-reflective black message applied to .040 aluminum and screwed to the base sign.

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	1/2		2	6	7	3		6 1/2	15 7/8	5	14 1/8	6 7/8	6 3/4	22 1/2										16.0
2M	48		2 1/4	1/2		2	6	7	3		6 1/2	15 7/8	5	14 1/8	6 7/8	6 3/4	22 1/2										16.0
3																											
4																											
5																											

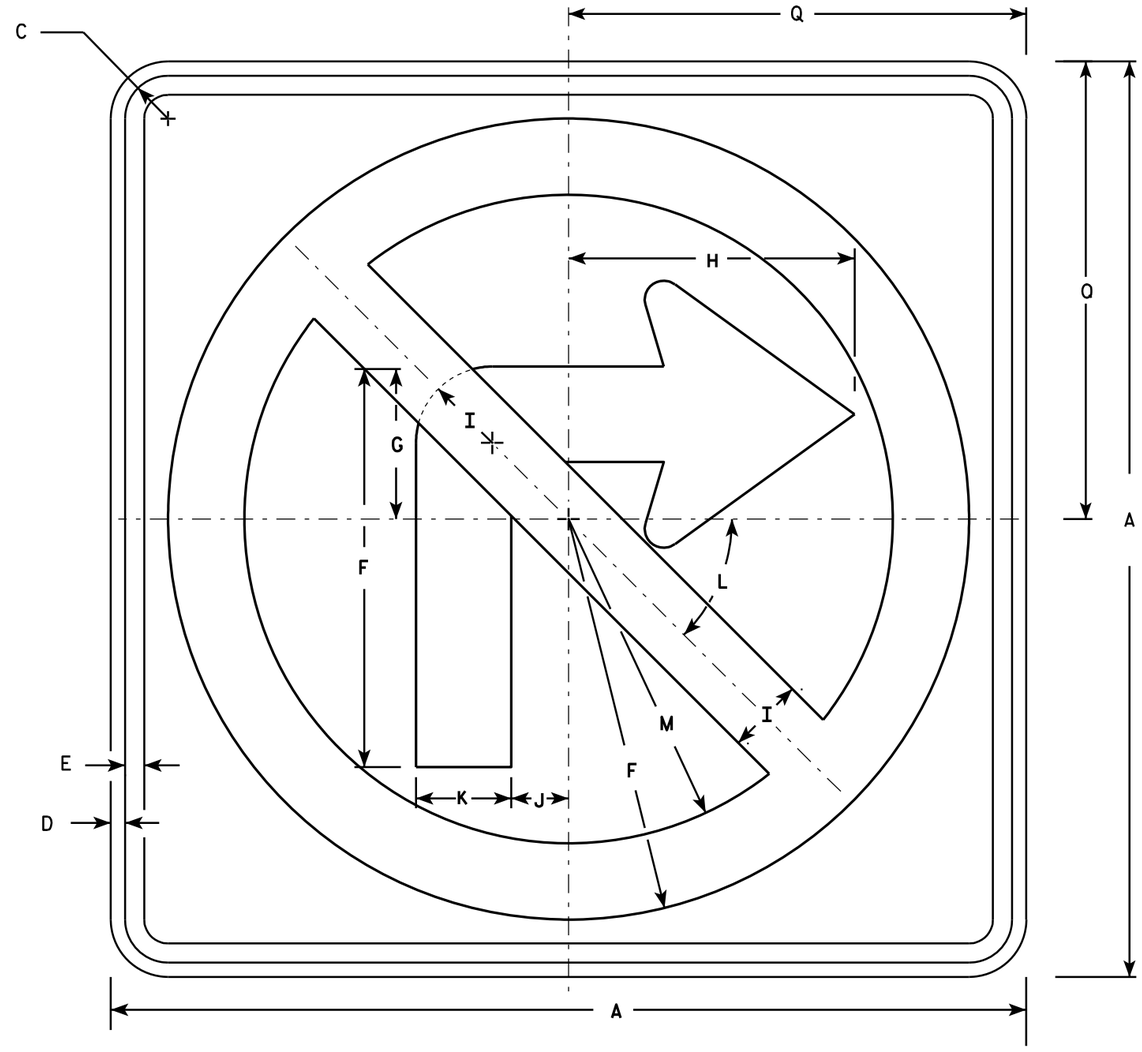
STANDARD SIGN
R11-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-51.4

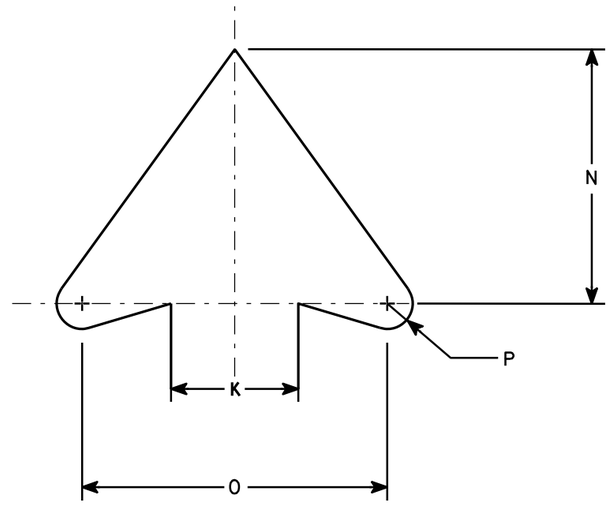
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 255	E



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

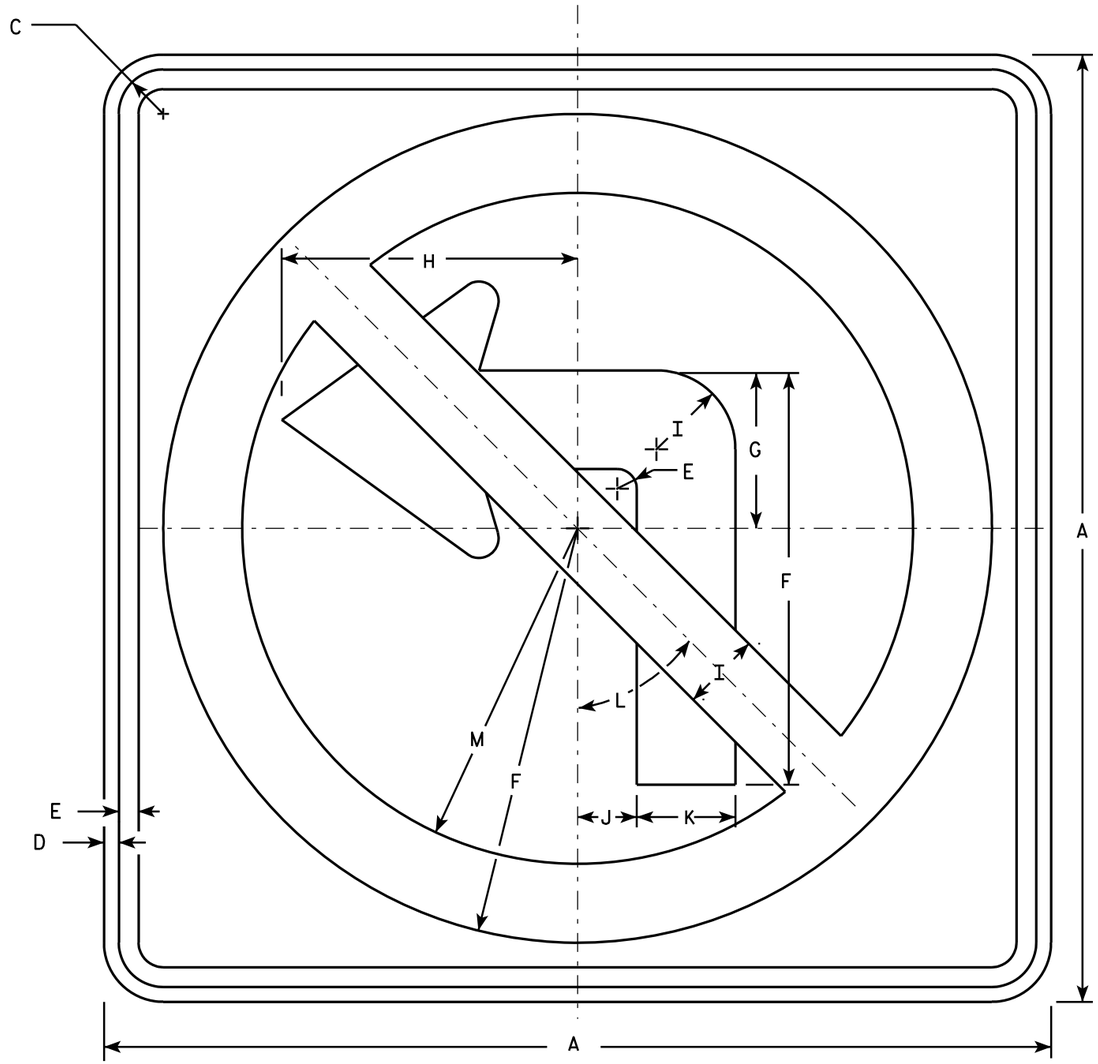
STANDARD SIGN
R3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-1.5

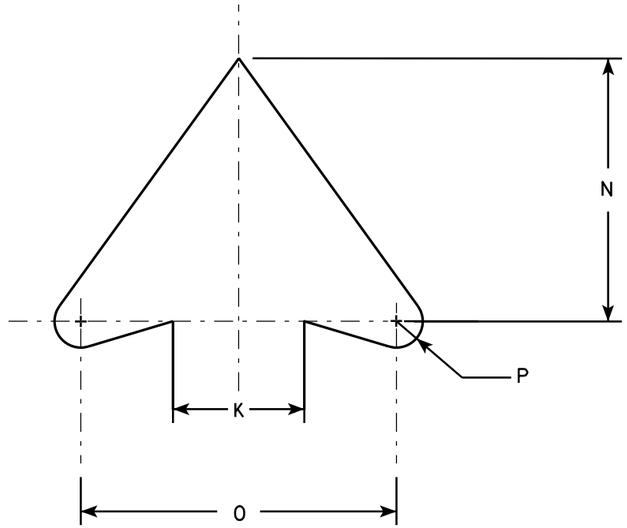
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 256	E



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

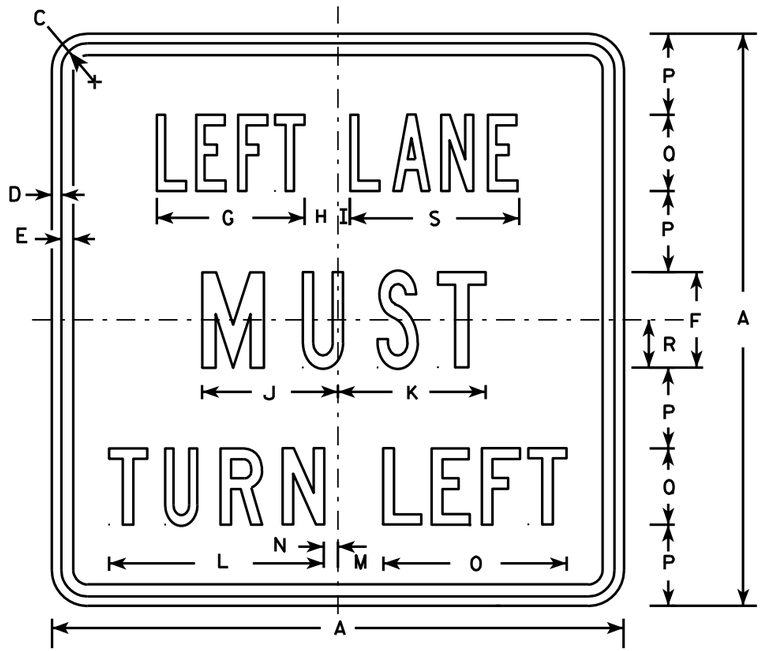
STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

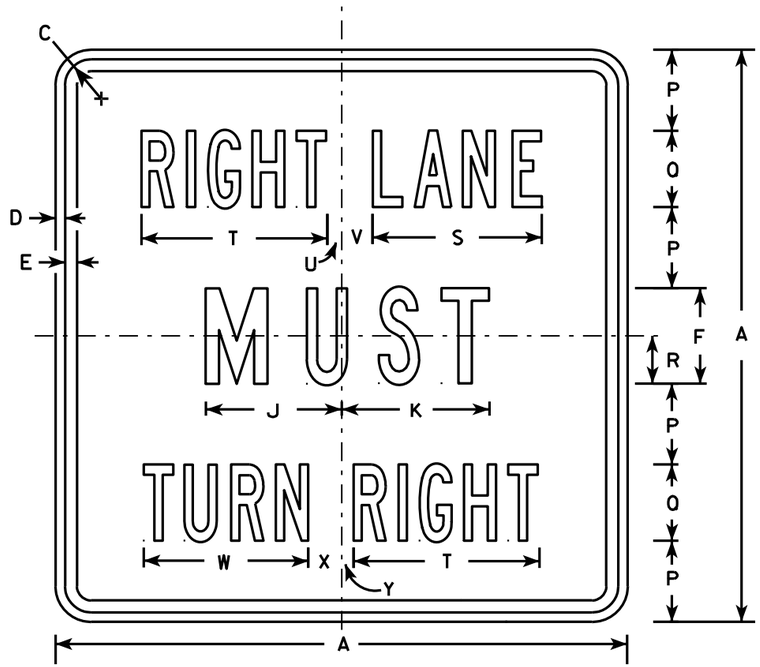
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 257	E



R3-7L



R3-7R

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 - Line 1 is Series B.
   Line 2 is Series C.
   Line 3 on plate R3-7R is Series B and Series C on plate R3-7L.
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		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2S	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2M	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
3	36		1 5/8	5/8	3/4	6	9 5/8	2	1 1/8	8 3/4	9	13 1/2	3 7/8	1 1/2	12 1/2	5	5	3	10 5/8	12	7/8	2 1/4	10 5/8	2 1/8	1		9.00
4	48		2 1/4	3/4	1	8	13 1/2	2 3/8	1 1/2	11 1/2	11 7/8	17 3/4	3 5/8	2 1/2	16 3/8	6 1/2	7	4	14 3/8	16 7/8	5/8	3 1/4	15 1/8	2 3/4	1 1/8		16.00
5																											

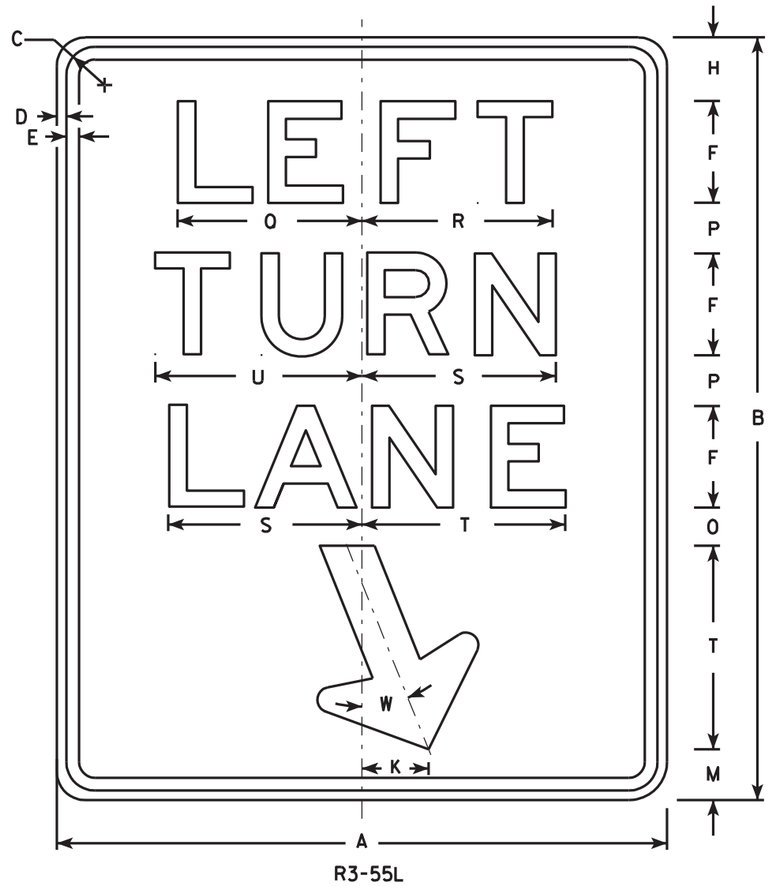
STANDARD SIGN
R3-7L & R3-7R

WISCONSIN DEPT OF TRANSPORTATION

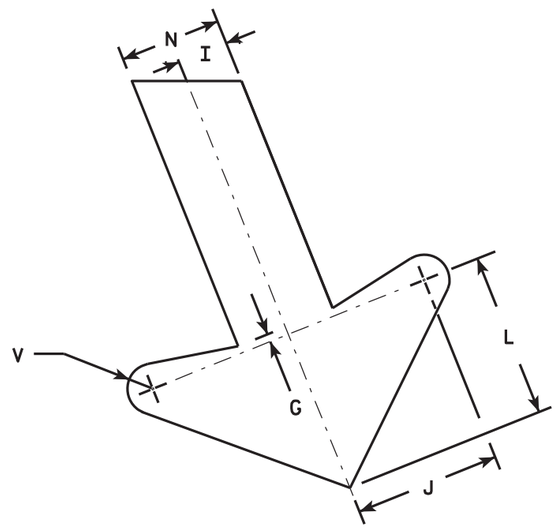
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-7.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 258 | E



R3-55L



ARROW DETAIL

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.

Plan Revision
1030-11-70
Added Page
May 16, 2013

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 750 mm
3	900 mm X 1200 mm
4	
5	

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	30	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	2	1 1/2	2	7 1/4	7 1/2	7 5/8	8	8 1/8	1/2	22°				5.0	0.45
3	36	48	1 3/4	1/2	5/8	6	3/8	4 1/4	1 1/2	4 1/4	4	4 7/8	3 1/4	3	3	3 3/4	10 7/8	11 1/4	11 1/2	12	12 1/4	3/4	22°				12.0	1.08
4																												
5																												

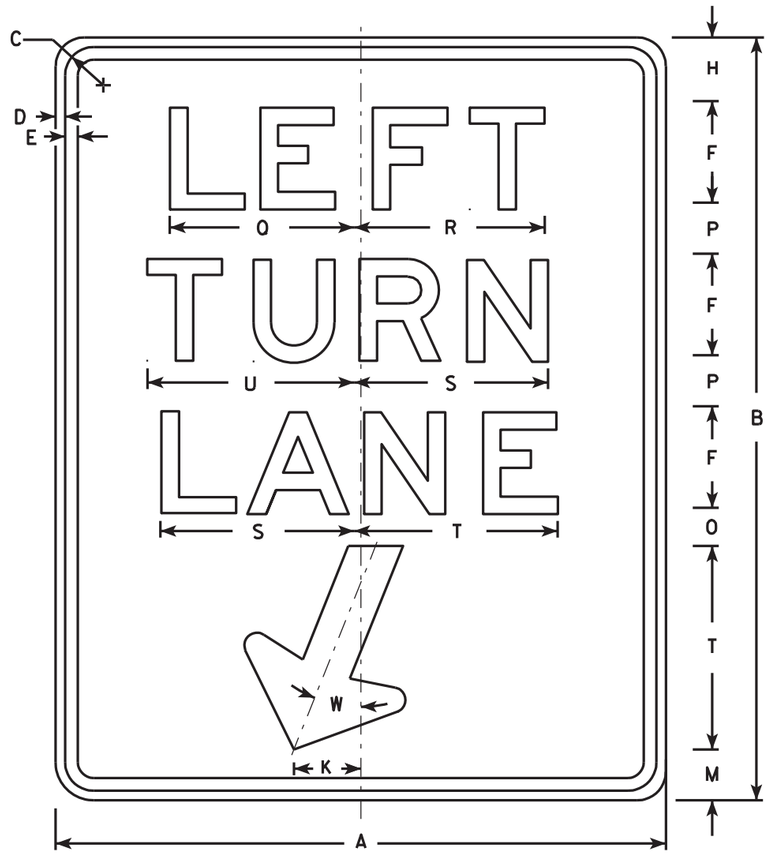
STANDARD SIGN
R3-55L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/05/05 PLATE NO. R3-55L.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 258A	E

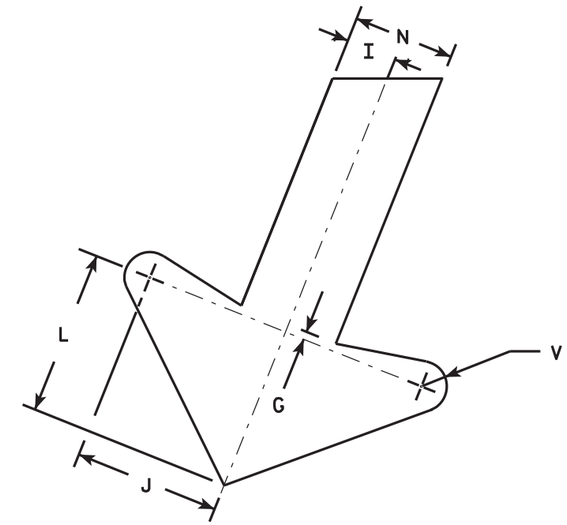


R3-56L

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.

Plan Revision
1030-11-70
Added Page
May 16, 2013



ARROW DETAIL

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	24	30	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	2	1 1/2	2	7 1/4	7 1/2	7 5/8	8	8 1/8	1/2	22°				5.0
2M	24	30	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	2	1 1/2	2	7 1/4	7 1/2	7 5/8	8	8 1/8	1/2	22°				5.0
3	36	48	1 3/4	1/2	5/8	6	3/8	4 1/4	1 1/2	4 1/4	4	4 7/8	3 1/4	3	3	3 3/4	10 7/8	11 1/4	11 1/2	12	12 1/4	3/4	22°				12.0
4																											
5																											

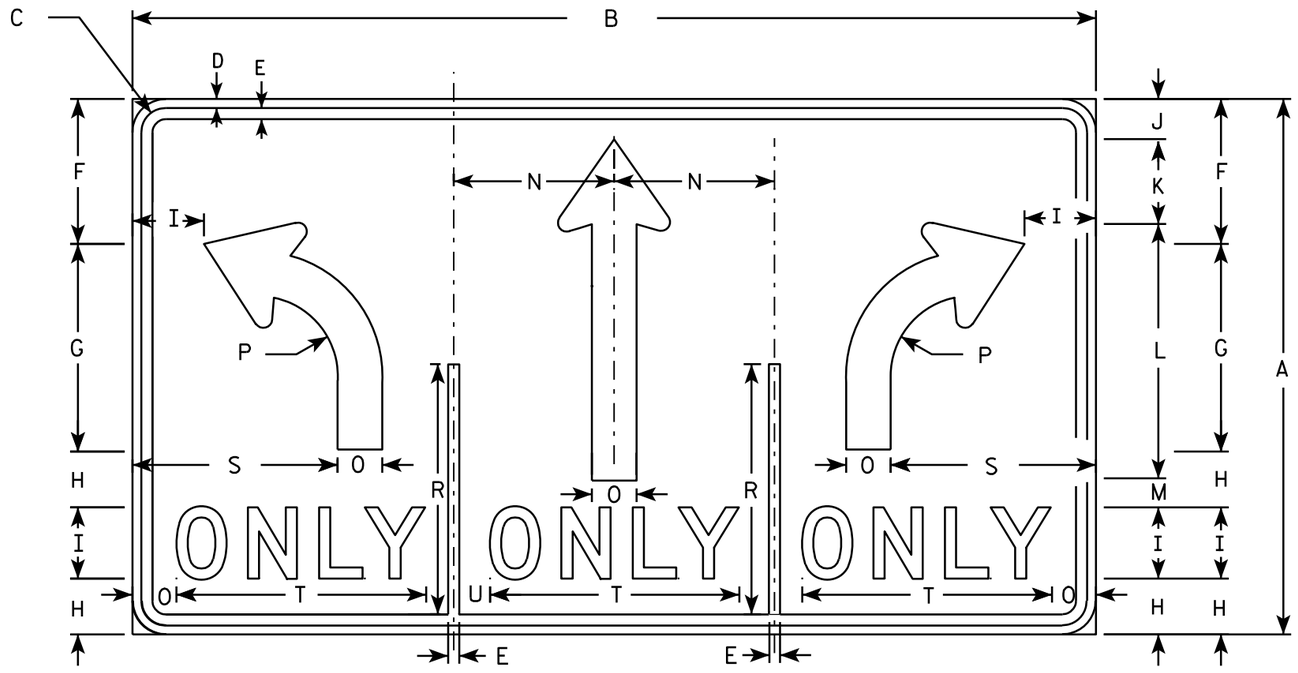
STANDARD SIGN
R3-56L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/22/10 PLATE NO. R3-56L.1

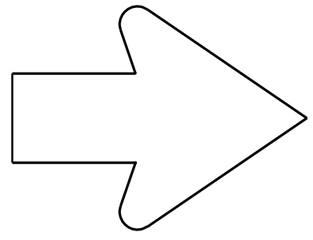
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 258B	E



R3-8W

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.



SEE R3-8 FOR ARROW DETAIL

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	30	54	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	2 1/4	4 3/4	14 1/4	1 5/8	9	2 1/2	4 1/2		14	11 1/2	14	2						11.25
2M	30	54	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	2 1/4	4 3/4	14 1/4	1 5/8	9	2 1/2	4 1/2		14	11 1/2	14	2						11.25
3																											
4	48	84	2 1/4	3/4	1	13	18 1/2	5 1/4	6	3 3/4	7	29 1/8	2 3/8	14	3 3/4	7 1/4		22 3/8	17 1/4	20 1/2	3 1/4						28.0
5	48	84	2 1/4	3/4	1	13	18 1/2	5 1/4	6	3 3/4	7	29 1/8	2 7/8	14	3 3/4	7 1/4		22 3/8	17 1/4	20 1/2	3 1/4						28.0

STANDARD SIGN
R3-8W

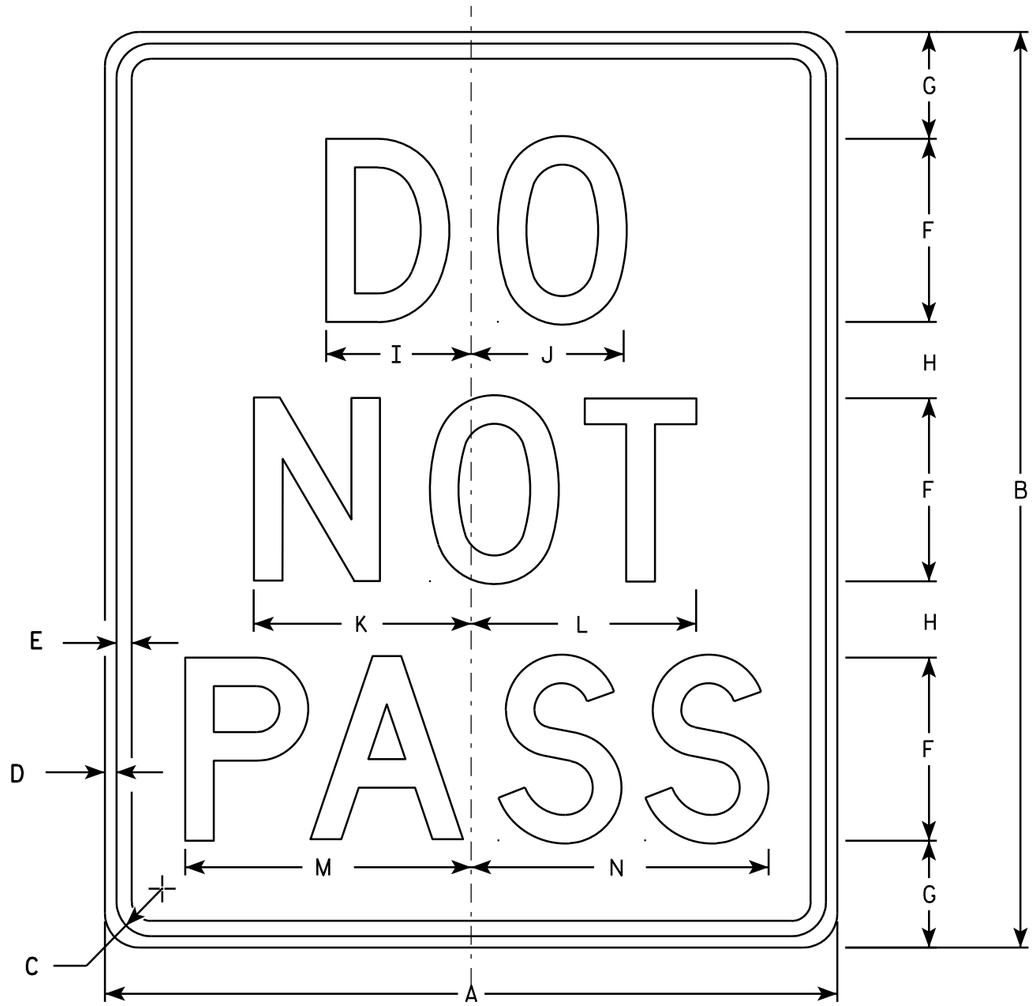
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/24/2011 PLATE NO. R3-8W.4

PROJECT NO:

SHEET NO: 259 E



R4-1

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 - 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	18	24	1 1/8	3/8	1/2	4	3 1/2	2 1/2	3 1/8	3 1/4	4 3/4	4 7/8	6 1/4	6 1/2													3.0
2S	24	30	1 1/8	3/8	1/2	6	3 1/2	2 1/2	4 3/4	5	7 1/8	7 3/8	9 3/8	9 3/4													5.0
2M	24	30	1 1/8	3/8	1/2	6	3 1/2	2 1/2	4 3/4	5	7 1/8	7 3/8	9 3/8	9 3/4													5.0
3																											
4	36	48	1 5/8	5/8	3/4	8	7	5	6 1/4	6 5/8	9 1/2	9 3/4	12 1/2	13													12.0
5	48	60	2 1/4	3/4	1	10	8	7	7 3/4	8 3/8	11 7/8	12 1/4	15 5/8	16 1/4													20.0

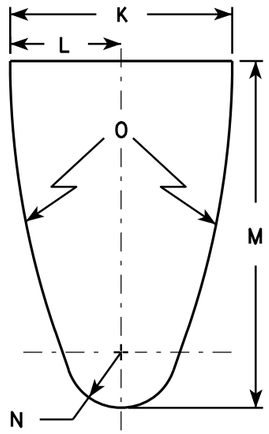
STANDARD SIGN
R4-1

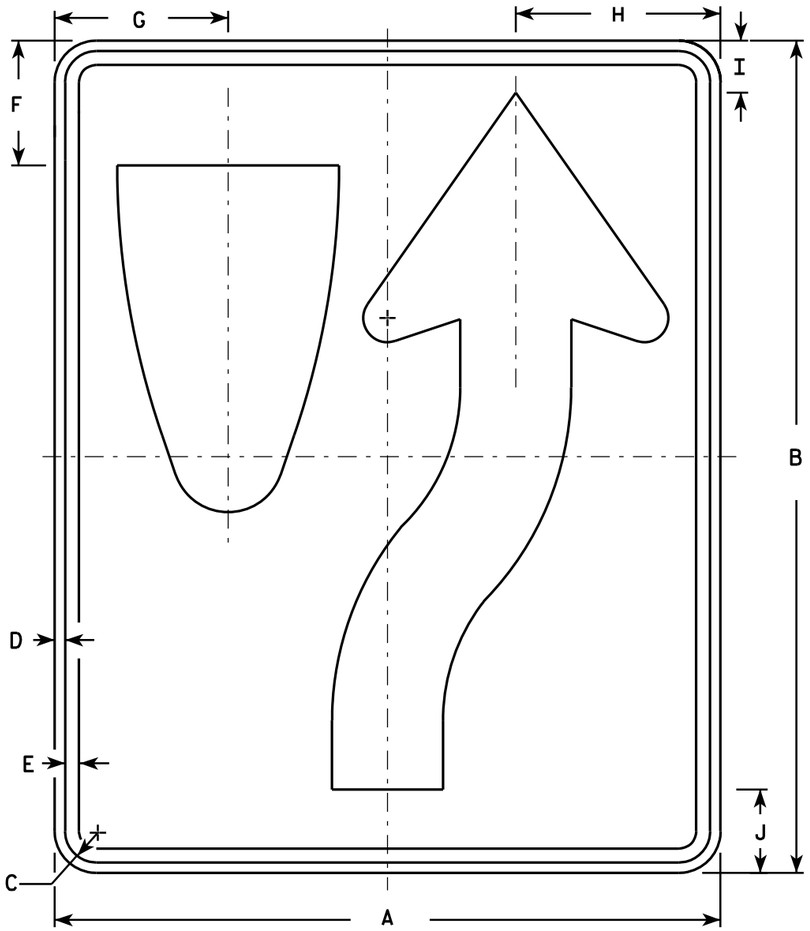
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-1.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 260 | E

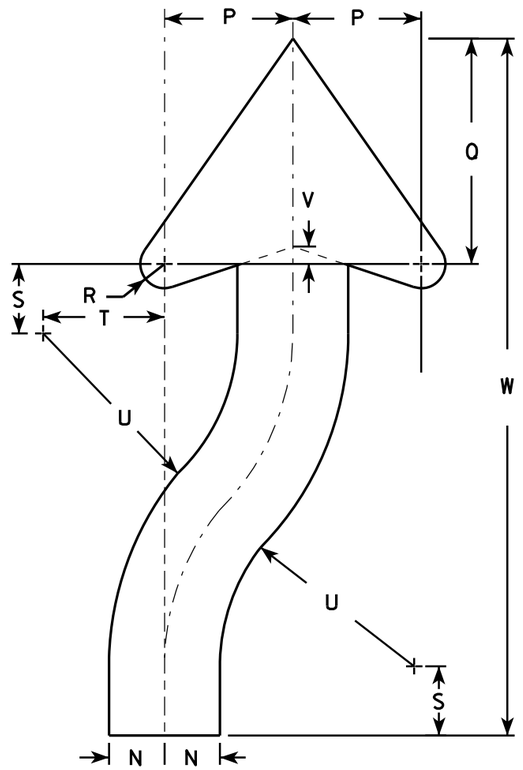




R4-7

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

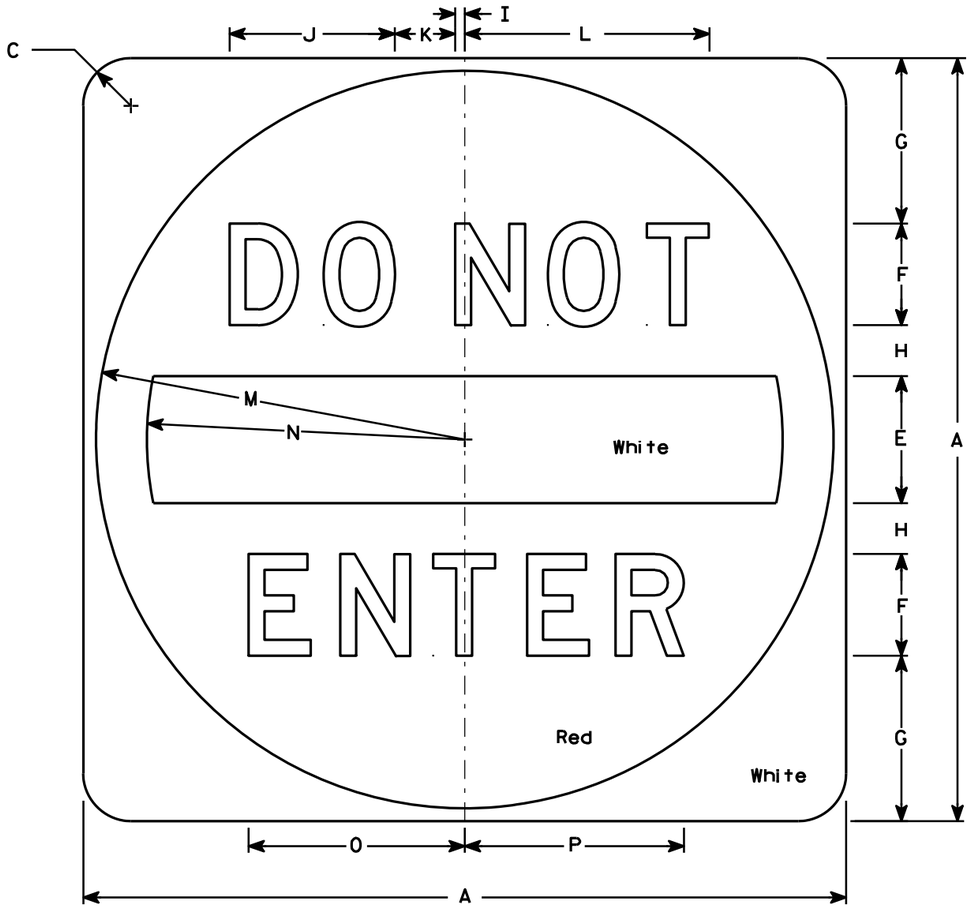
STANDARD SIGN
R4-7 & R4-8

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: 261	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

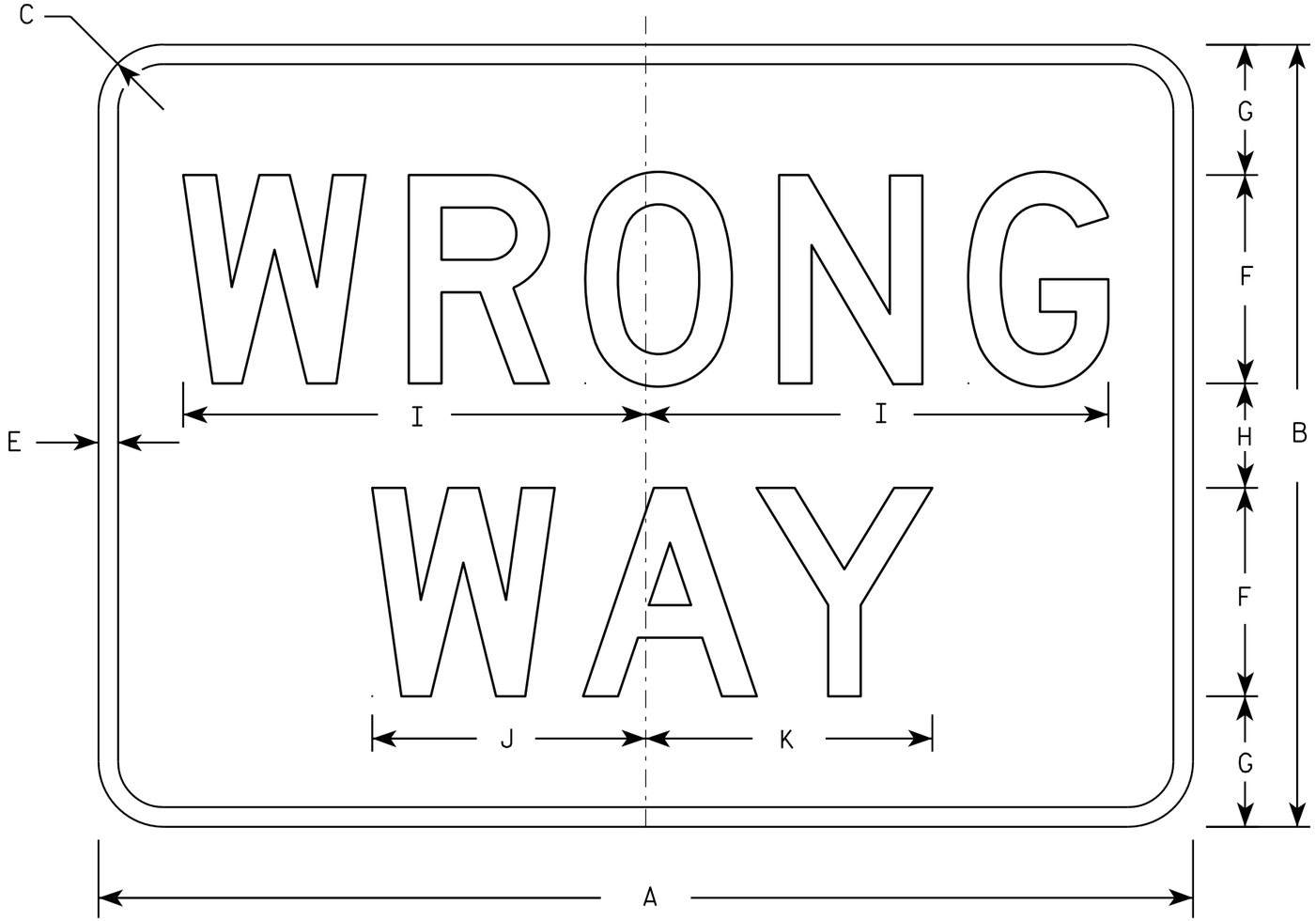
STANDARD SIGN
R5-1

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: 262 | 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: 263 | 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

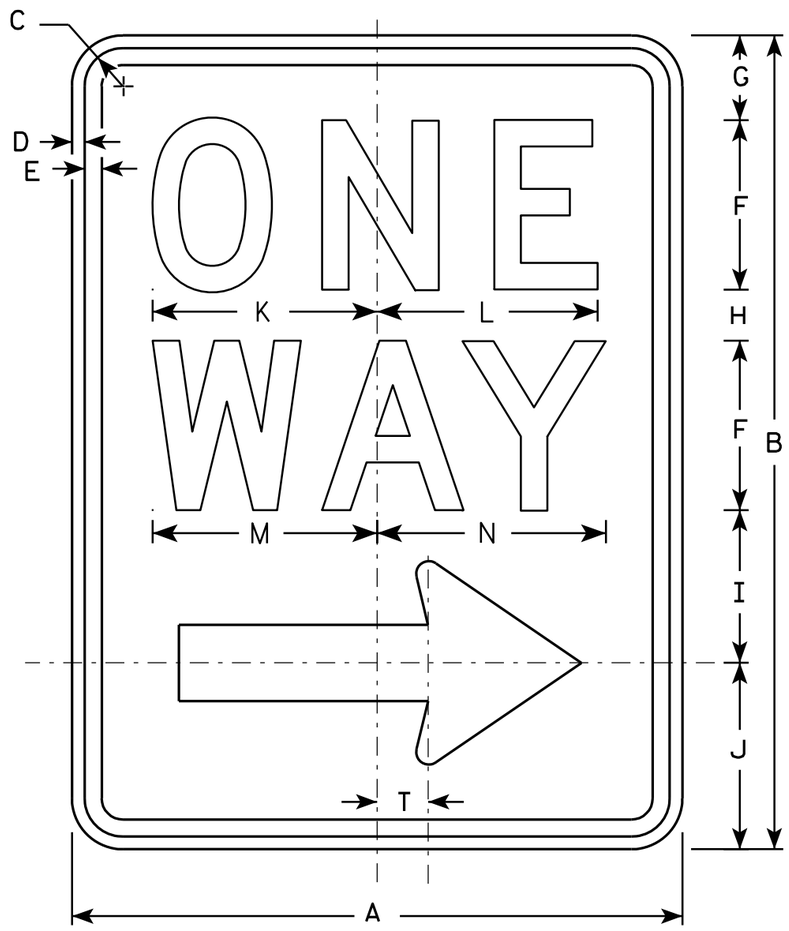
STANDARD SIGN
R5-57

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2011 PLATE NO. R5-57.10

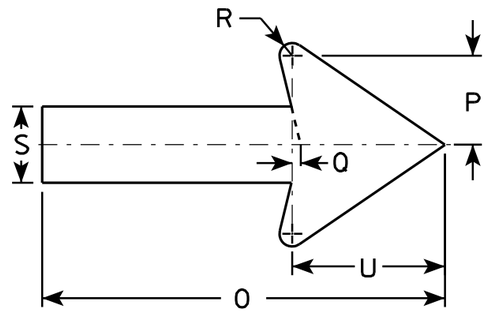
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 264 | E



R6-2R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R6-2L same as R6-2R except arrow points to the left.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

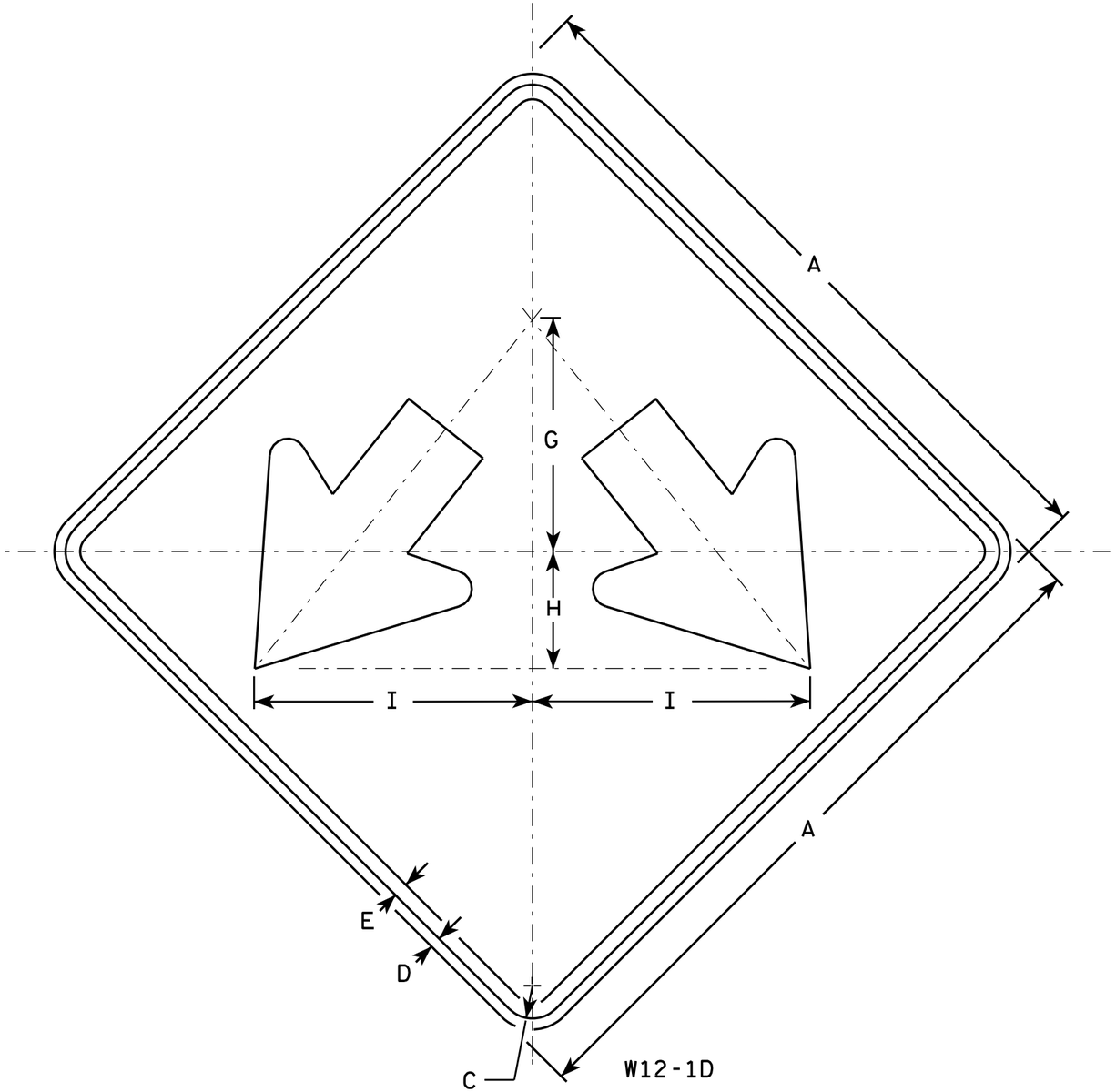
STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

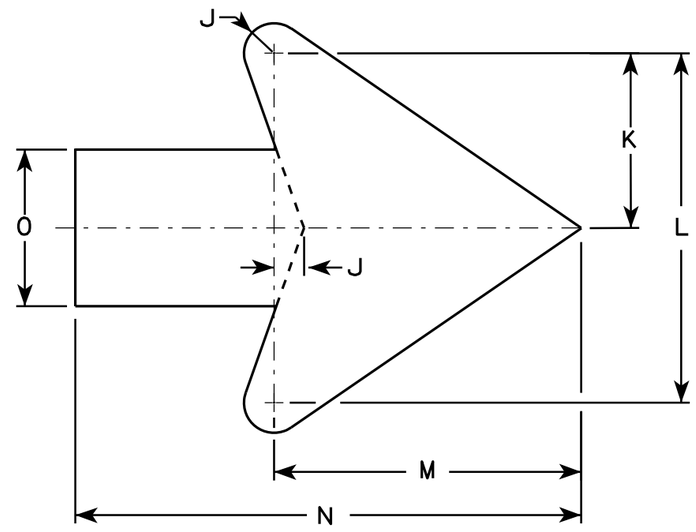
DATE 11/2/10 PLATE NO. R6-2.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 265 | E



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 3/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 7/8	13	4												6.25
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0
5	48		2 1/4	3/4	1		16	8	19	1 1/4	7 1/4	14 1/2	12 3/4	21	6 1/4												16.0

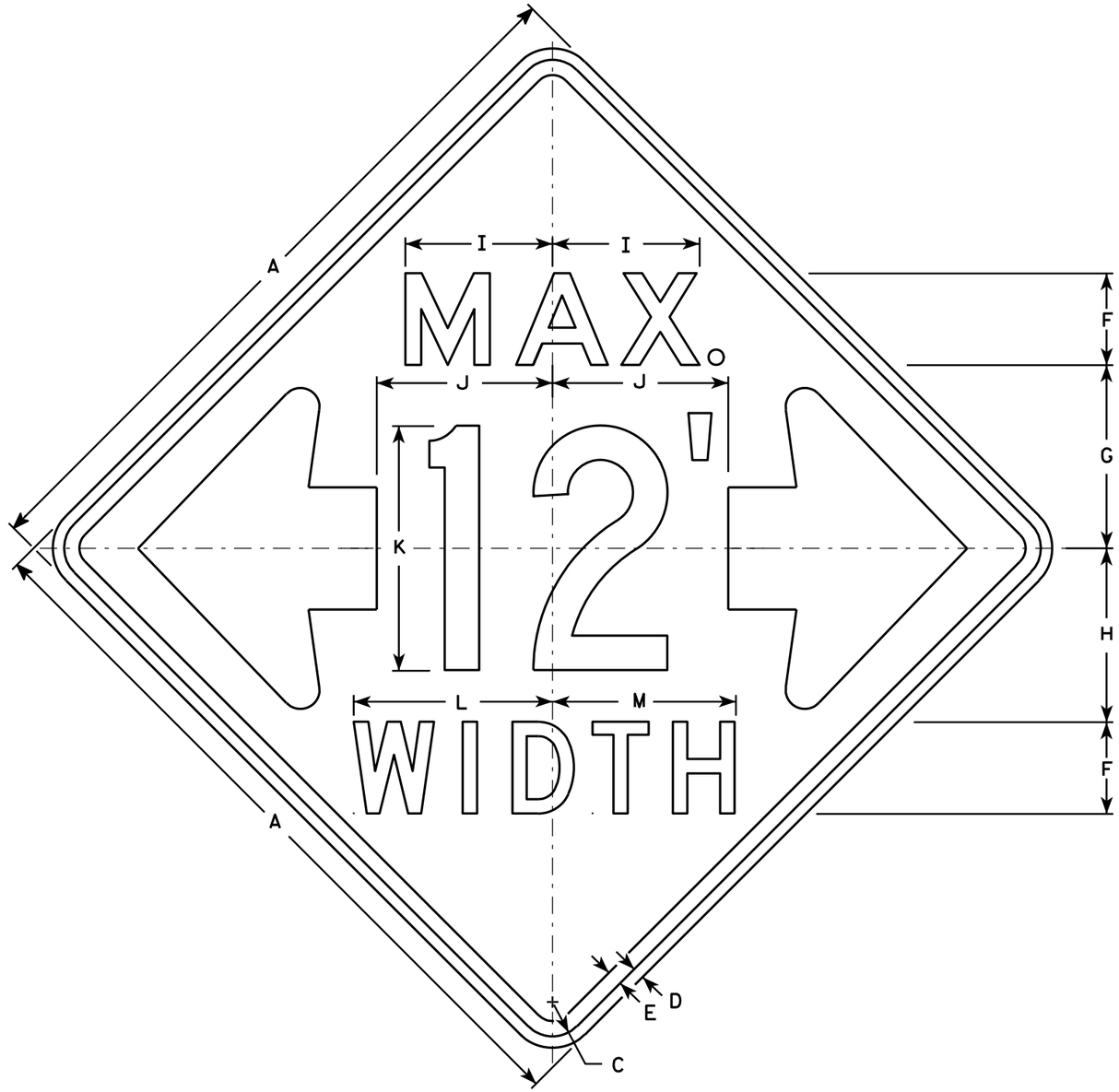
STANDARD SIGN
W12-1D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/15/11 PLATE NO. W12-1D.14

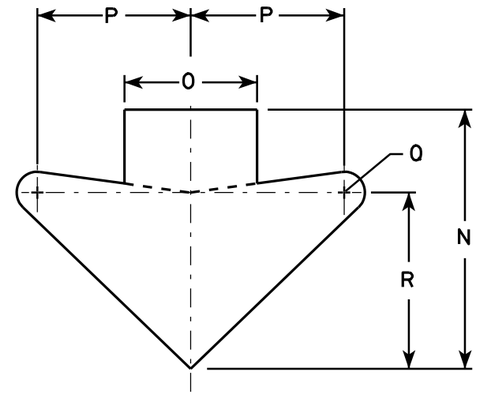
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 266 | E



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

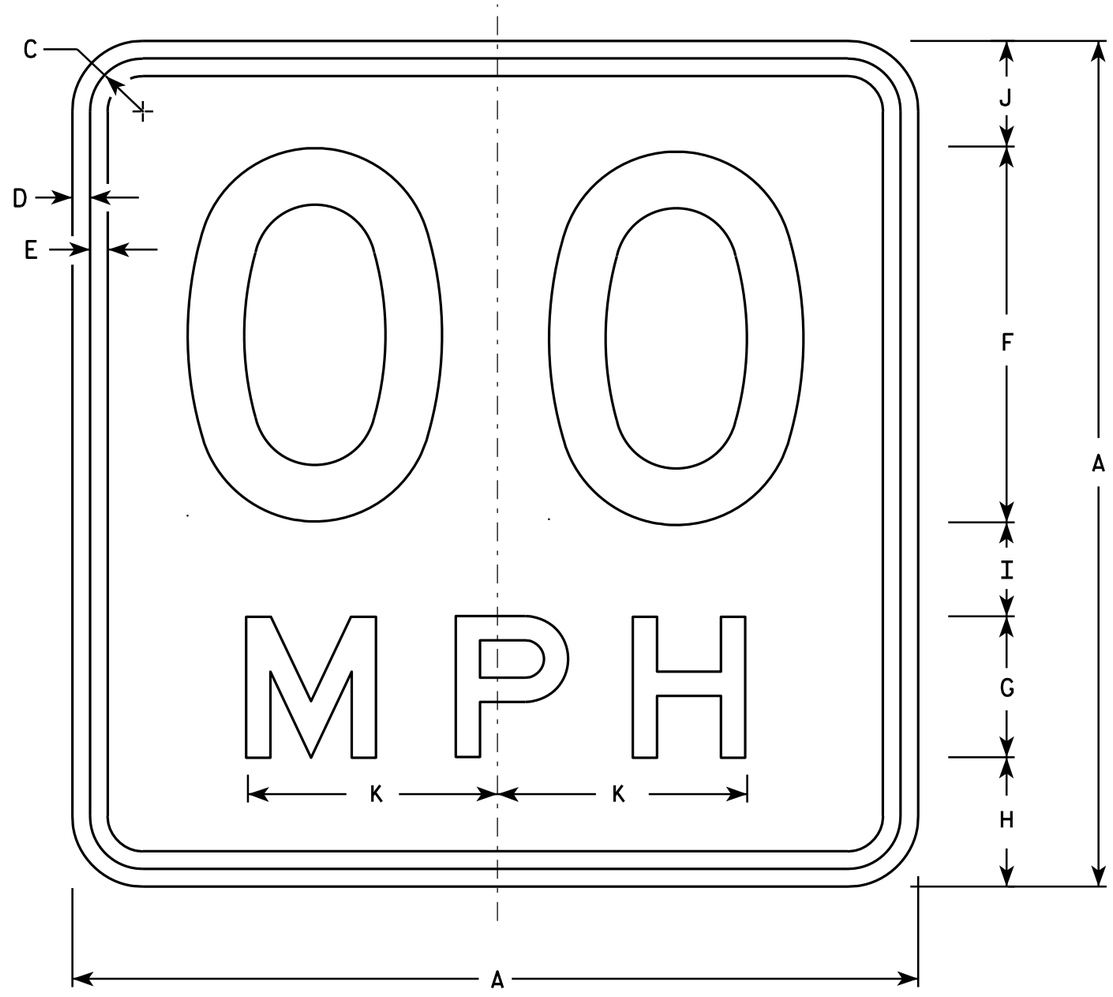
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/11 PLATE NO. W12-52.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 267 | 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



W13-1

* For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

NOTES

1. Sign is Type II - Type 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 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is Series E

	SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
	1	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
	3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
	4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
	5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

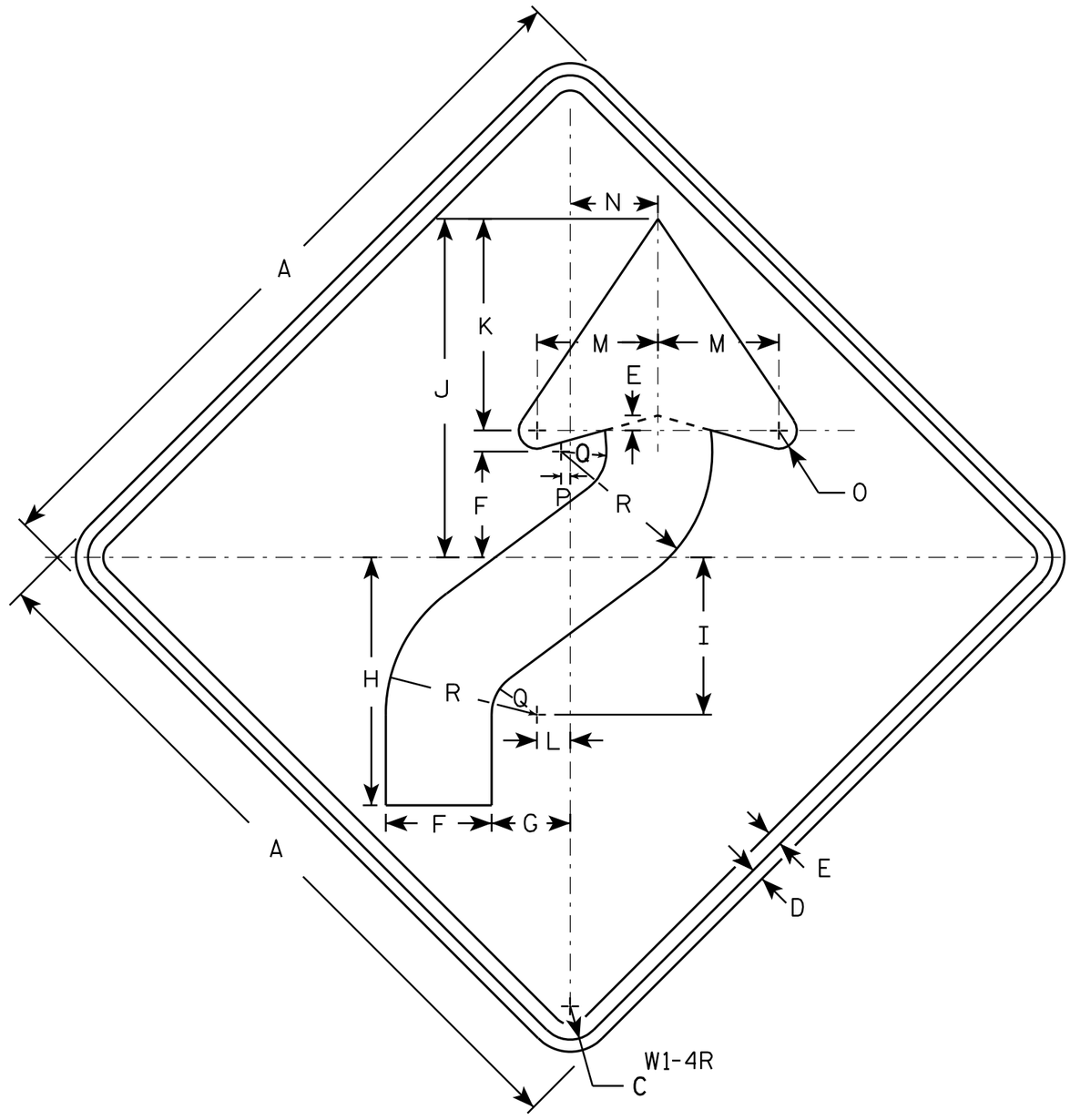
STANDARD SIGN
W13-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 268 | 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. W1-4L is the same as W1-4R 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	24		1 1/8	3/8	1/2	3 1/2	2 5/8	8 1/4	5 1/4	11 1/4	7	1 1/8	4	3	5/8	1/4	1 1/2	5									4.0
2S	30		1 3/8	1/2	5/8	4 3/8	3 1/4	10 1/4	6 1/2	14	8 3/4	1 3/8	5	3 5/8	3/4	3/8	1 7/8	6 1/4									6.25
2M	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
3	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
4	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
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

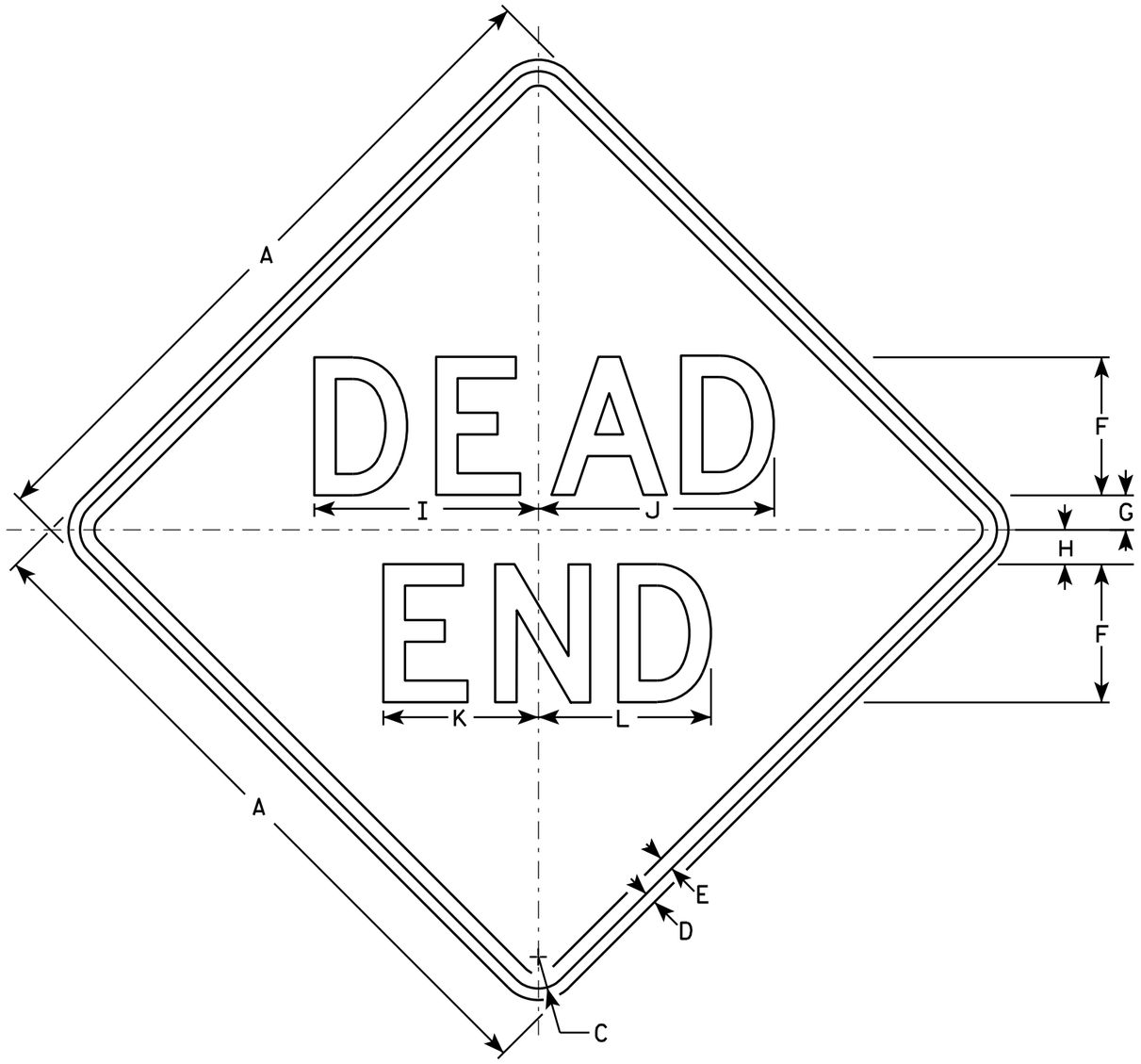
STANDARD SIGN
W1-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/17/12 PLATE NO. W1-4.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 269 | E



W14-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	5	1	2	8 1/4	8 5/8	5 5/8	6 1/4															4.0
2S	30		1 3/8	1/2	5/8	6	1 1/2	2 1/2	9 3/4	10 1/4	6 3/4	7 1/2															6.25
2M	30		1 3/8	1/2	5/8	6	1 1/2	2 1/2	9 3/4	10 1/4	6 3/4	7 1/2															6.25
3	36		1 5/8	5/8	3/4	7	2	3	11 3/8	12	7 7/8	8 3/4															9.0
4																											
5																											

STANDARD SIGN
W14-1

WISCONSIN DEPT OF TRANSPORTATION

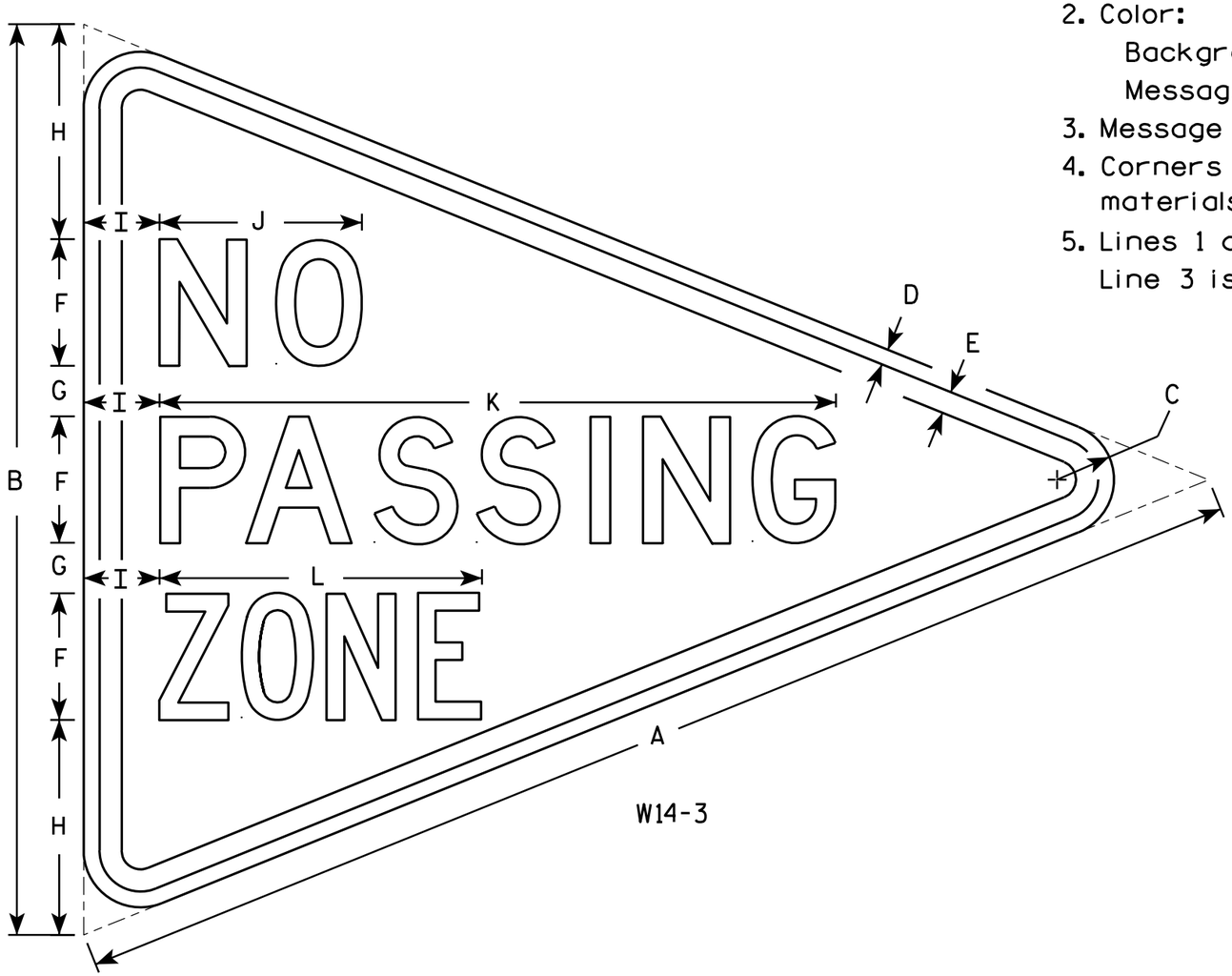
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/11 PLATE NO. W14-1.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 270	E

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - See note 5
4. Corners and borders shall be rounded on all base materials for this sign.
5. Lines 1 and 2 are Series D.
   Line 3 is series C.



W14-3

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	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																											

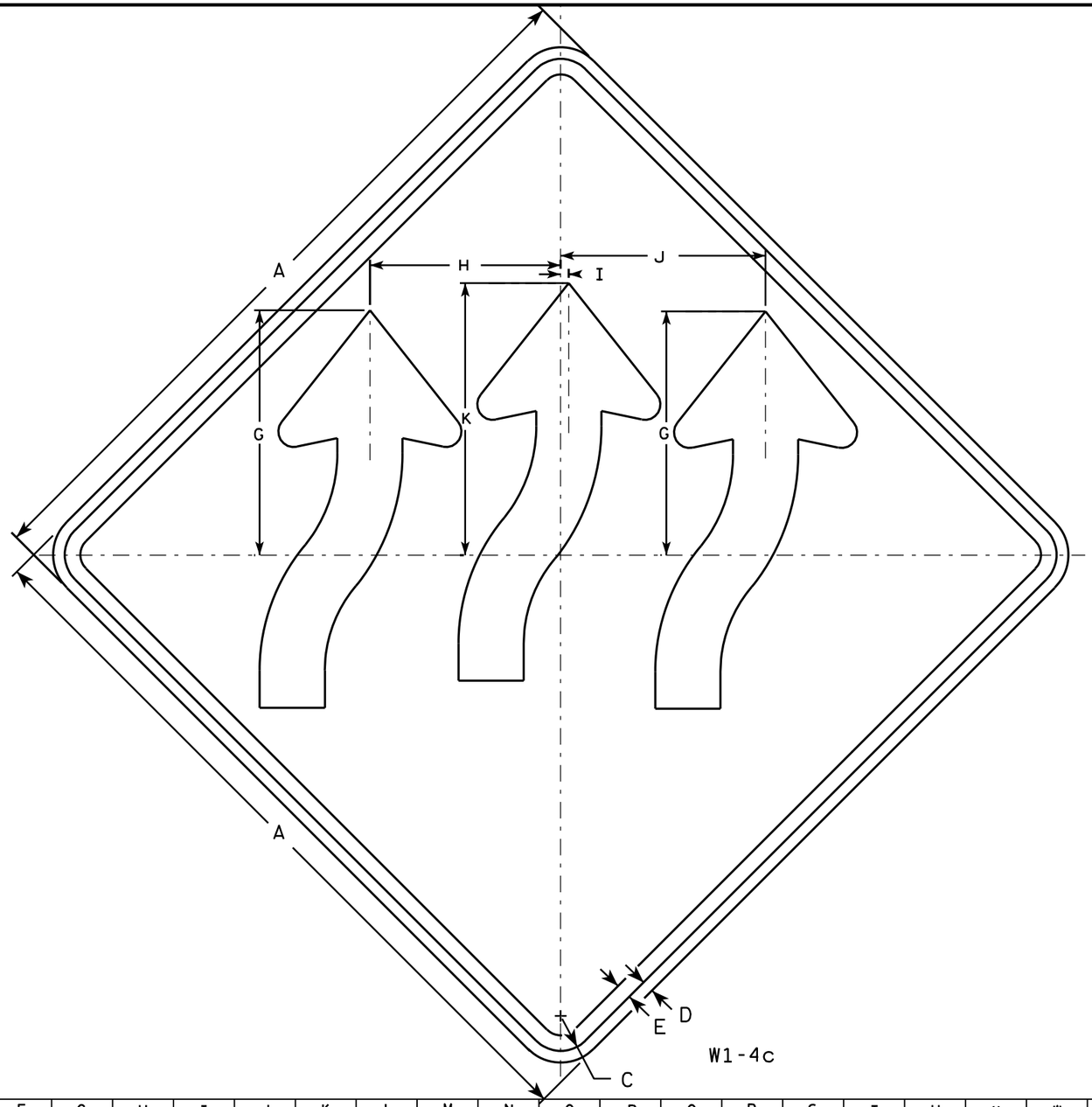
STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

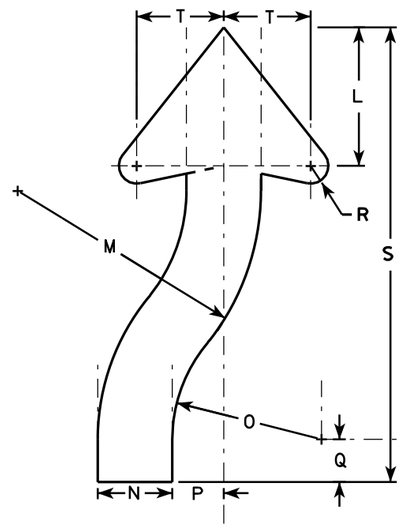
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W14-3.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 271	E



W1-4c



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.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		1 5/8	5/8	3/4		11 3/4	9 1/4	3/8	9 7/8	13 1/8	5 7/8	10 1/4	3 1/8	6 1/4	2 1/4	1 7/8	3/4	19 1/4	3 3/4							9.0
2M	36		1 5/8	5/8	3/4		11 3/4	9 1/4	3/8	9 7/8	13 1/8	5 7/8	10 1/4	3 1/8	6 1/4	2 1/4	1 7/8	3/4	19 1/4	3 3/4							9.0
3	48		2 1/4	3/4	1		15 3/4	12 1/4	1/2	13 1/4	17 1/2	7 3/4	13 3/4	4 1/4	8 1/2	2 7/8	2 3/8	1	25 5/8	4 7/8							16.0
4	48		2 1/4	3/4	1		15 3/4	12 1/4	1/2	13 1/4	17 1/2	7 3/4	13 3/4	4 1/4	8 1/2	2 7/8	2 3/8	1	25 5/8	4 7/8							16.0
5	48		2 1/4	3/4	1		15 3/4	12 1/4	1/2	13 1/4	17 1/2	7 3/4	13 3/4	4 1/4	8 1/2	2 7/8	2 3/8	1	25 5/8	4 7/8							16.0

STANDARD SIGN
W1-4c

WISCONSIN DEPT OF TRANSPORTATION

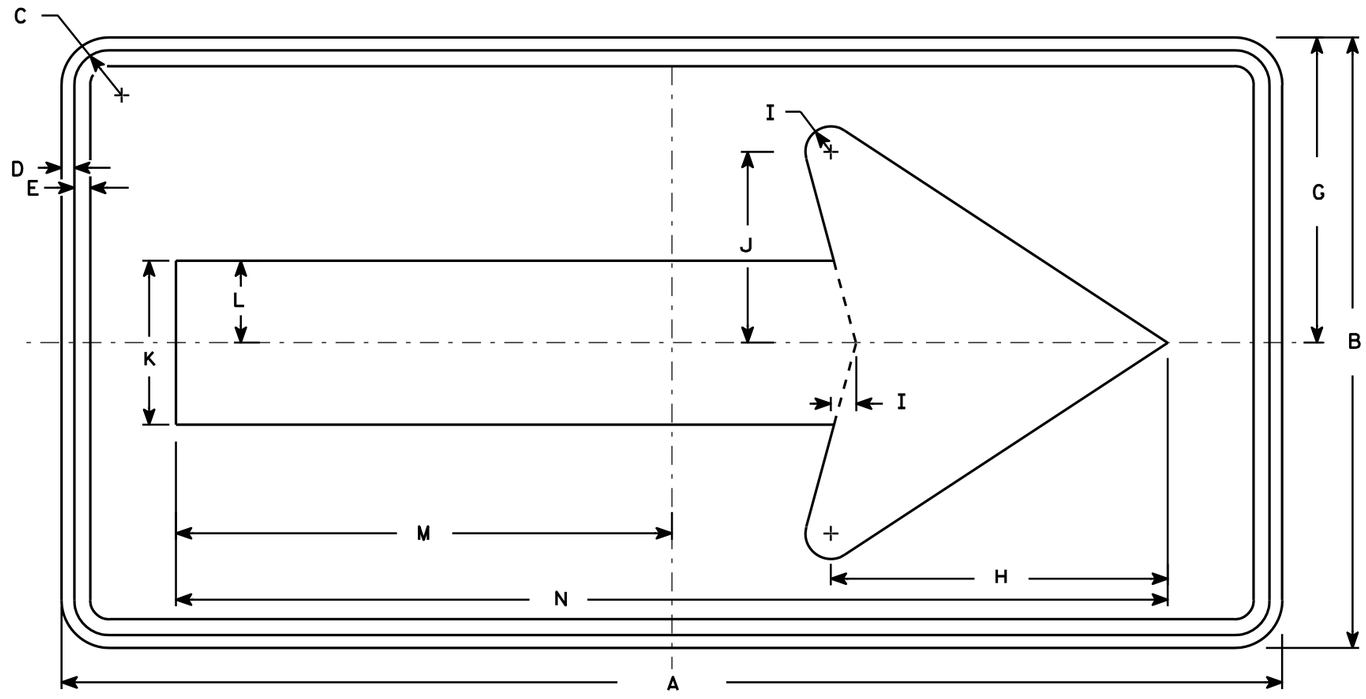
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/17/12 PLATE NO. W1-4C.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 272	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.



W1-6

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	18	1 1/8	3/8	3/8		9	10	3/4	5 5/8	4 3/4	2 3/8	14 5/8	29 1/4													4.5
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	96	48	2 1/4	3/4	1		24	26 1/2	2	15	13	6 1/2	39	78													32.0

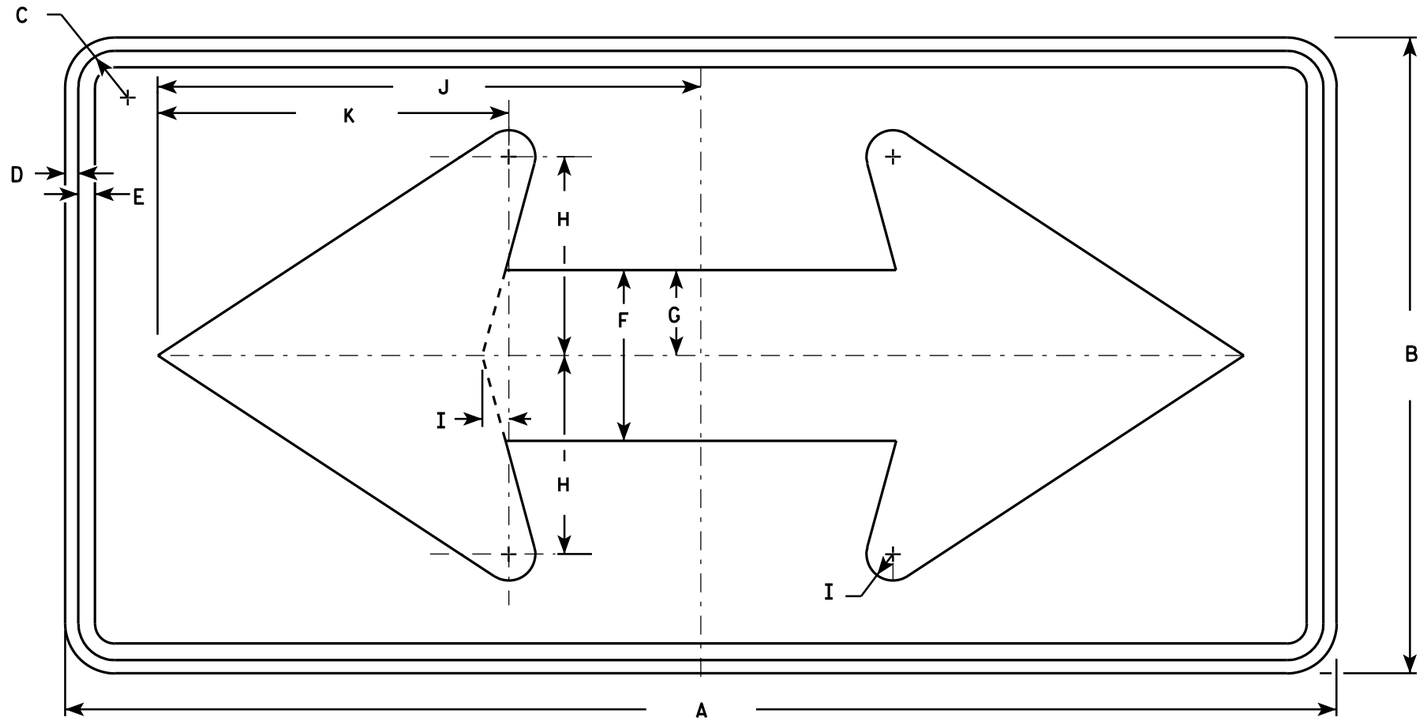
STANDARD SIGN
W1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-6.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 273



W1-7

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.

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	18	1 1/8	3/8	1/2	5	2 1/2	5 3/4	3/4	15 5/8	10 1/8																4.5
2S	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
3	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
5	96	48	2 1/4	3/4	1	13	6 1/2	15	2	41	26 1/2																32.0

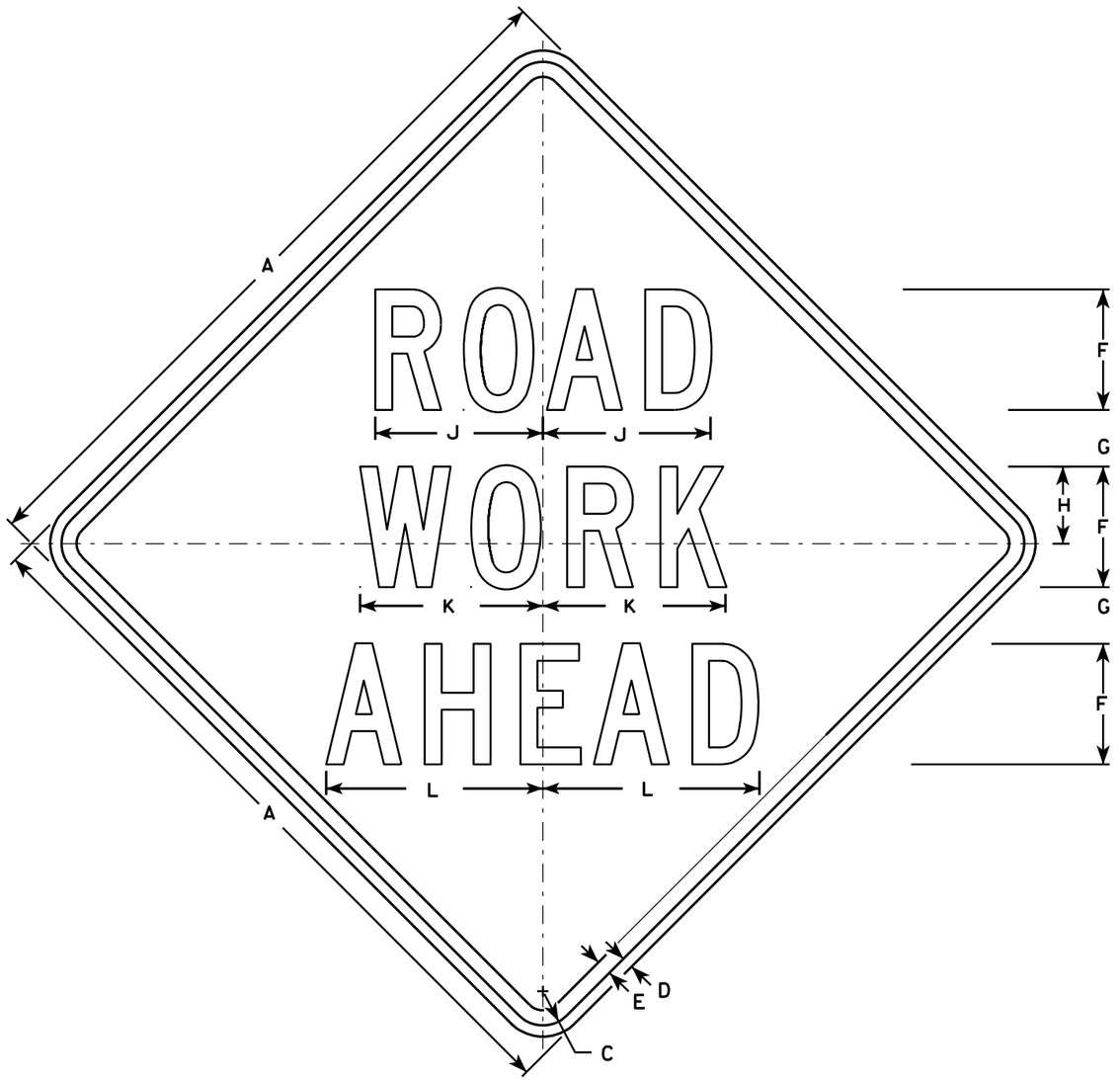
STANDARD SIGN
W1-7

WISCONSIN DEPT OF TRANSPORTATION

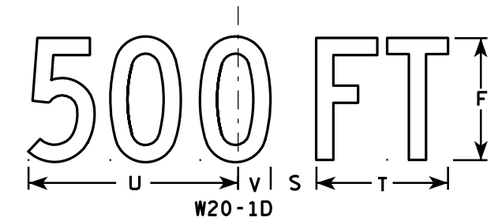
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-7.7

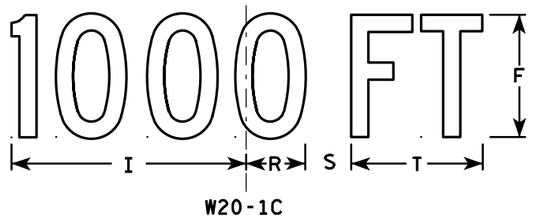
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 274 | E



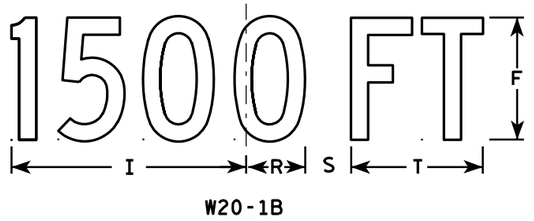
W20-1A



W20-1D



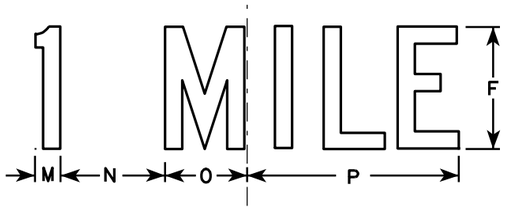
W20-1C



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:

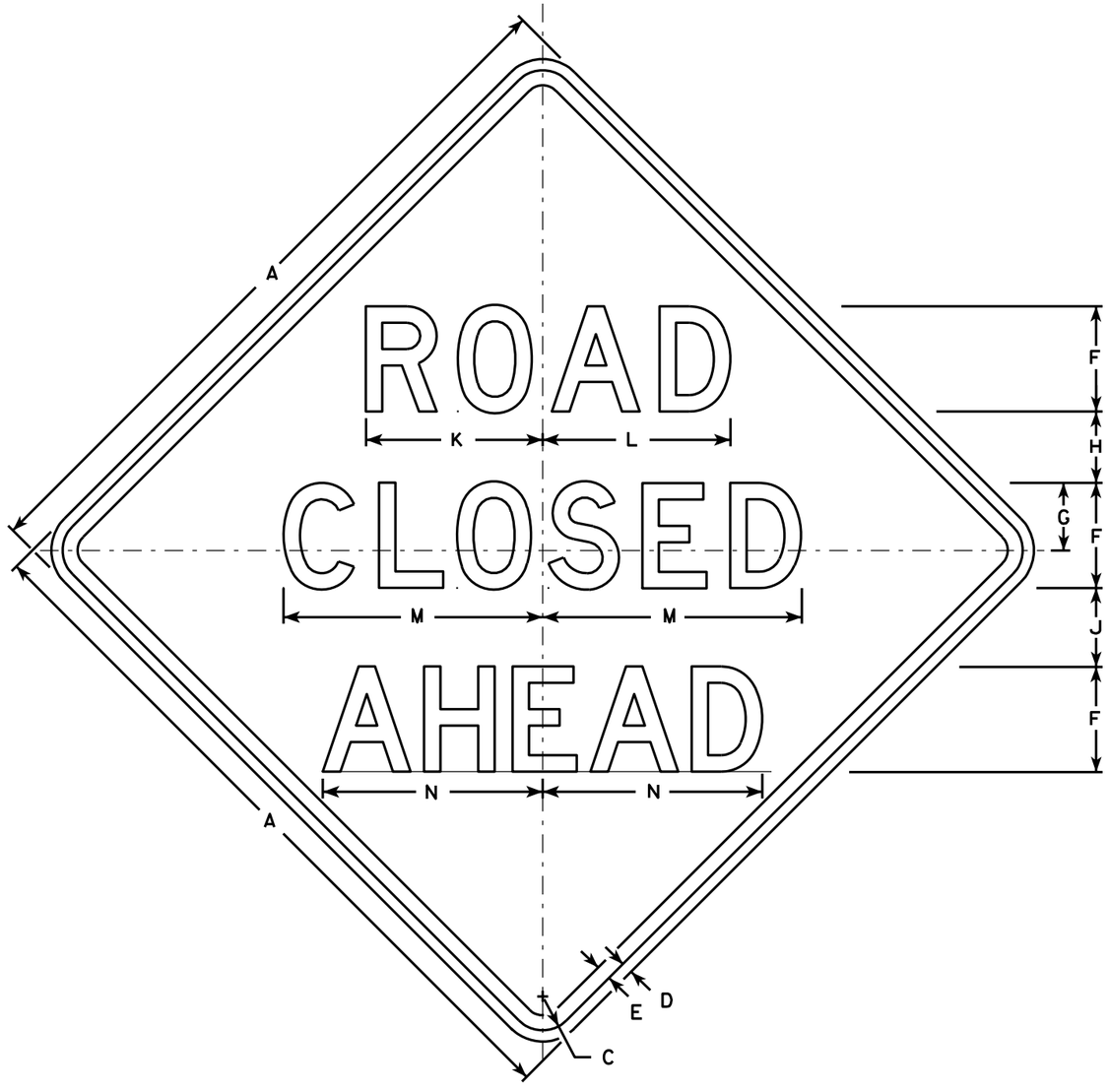
SHEET NO: 275 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W201.DGN PLOT DATE : 18-MAR-2011 09:56 PLOT BY : mscj9h

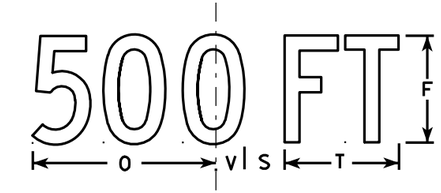
WISDOT/CADDS SHEET 42

7

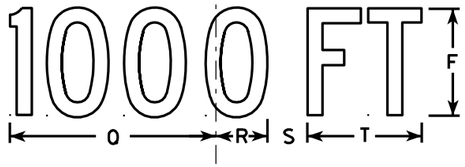
7



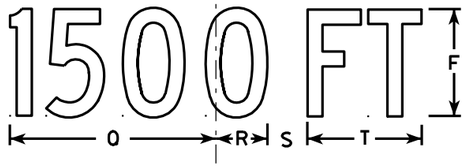
W20-3A



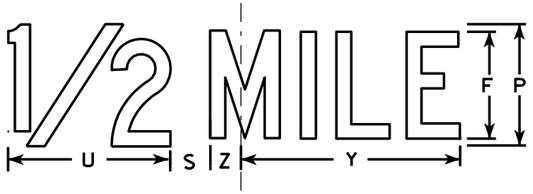
W20-3D



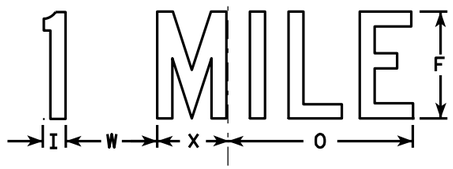
W20-3C



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

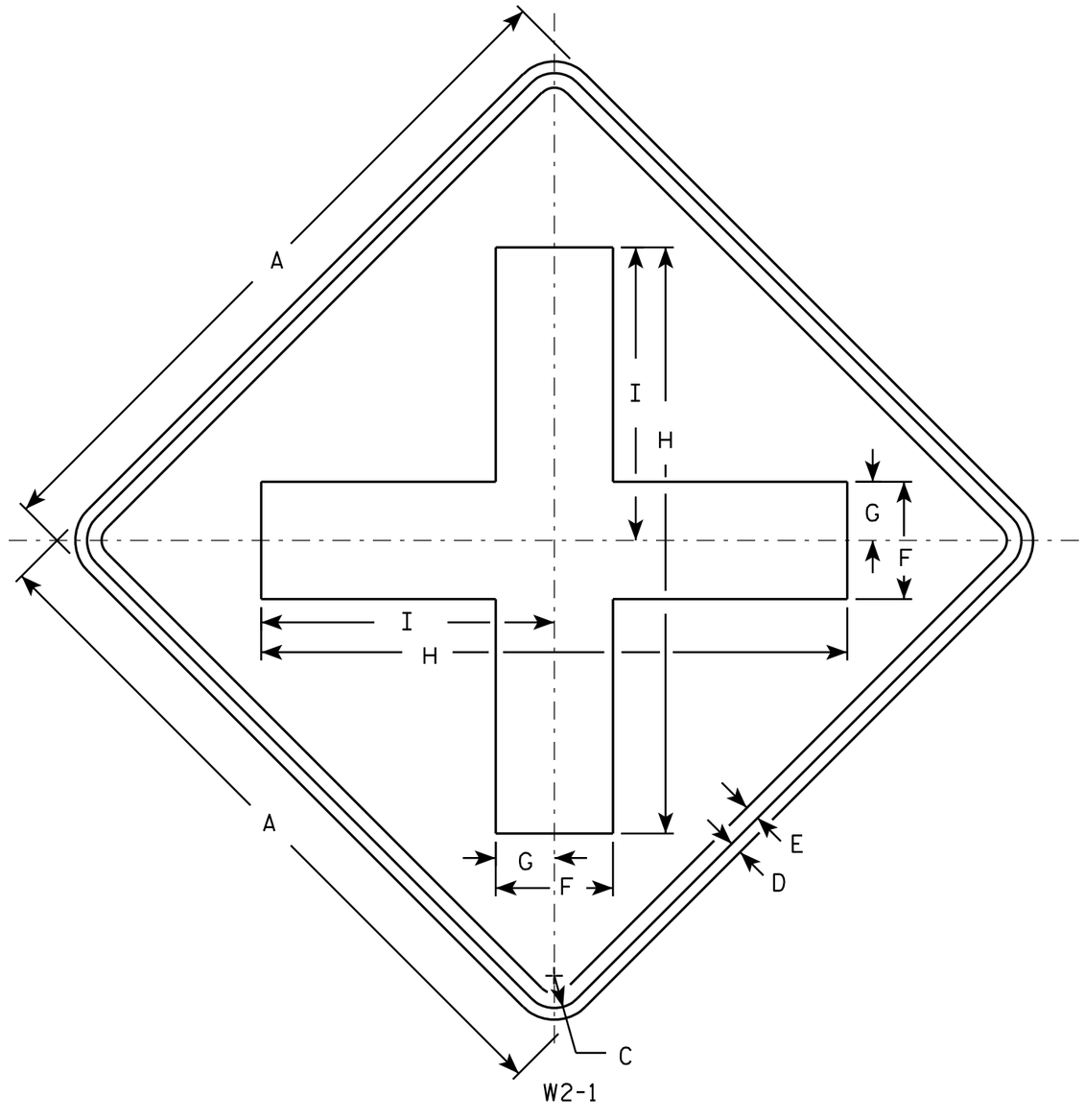
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/18/11 PLATE NO. W20-3.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 276 | 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



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.

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	4	2	20	10																		4.0
2S	30		1 3/8	1/2	5/8	5	2 1/2	25	12 1/2																		6.25
2M	30		1 3/8	1/2	5/8	5	2 1/2	25	12 1/2																		6.25
3	36		1 5/8	5/8	3/4	6	3	30	15																		9.0
4	48		2 1/4	3/4	1	8	4	40	20																		16.0
5																											

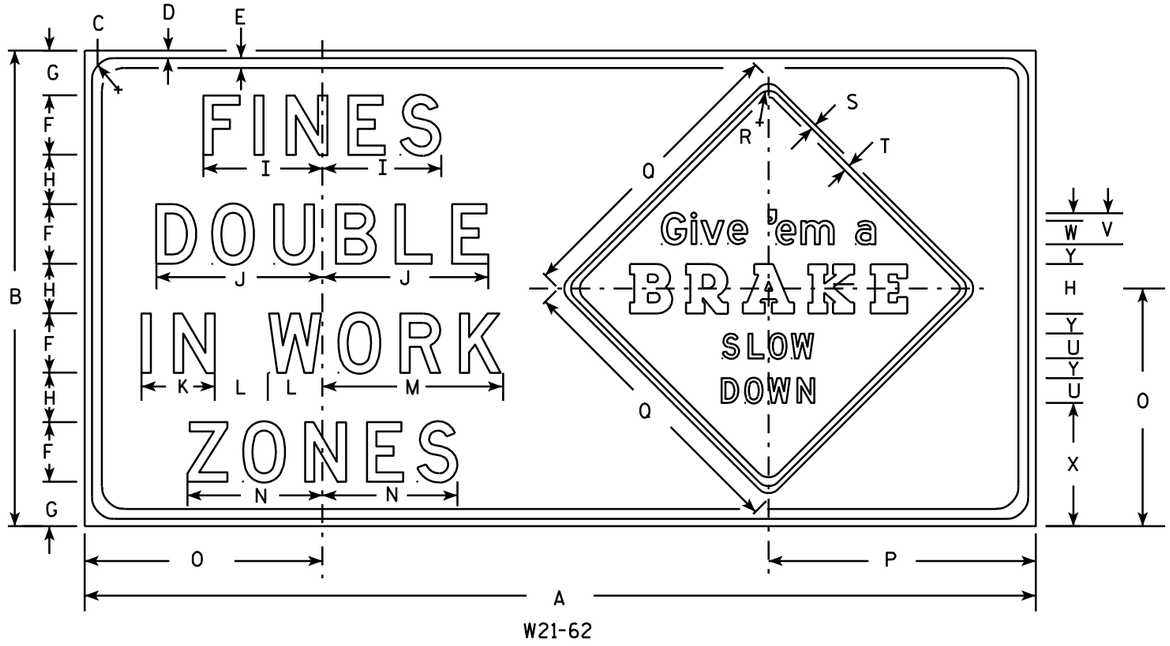
STANDARD SIGN
W2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W2-1.9

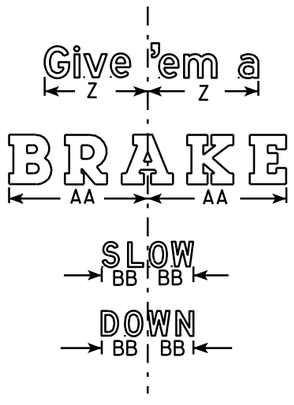
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 277	E

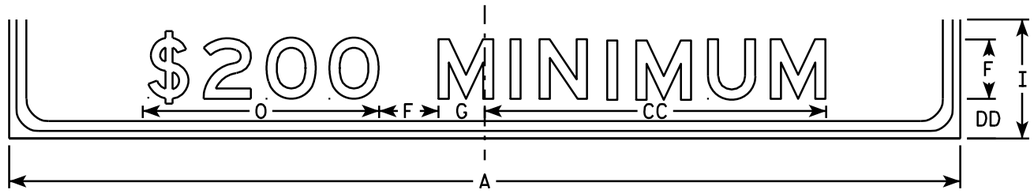


W21-62

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 - (See Note 5)
   Message - Black
3. Message Series -
   Fines Double Message - All lines are Series D
   Give 'em a Brake -
   Line one is Series E, line two is a Special Graphic Series and lines three and four are Series D.
4. The base material shall be plywood. Corners may be square or rounded, but borders shall be rounded as shown. The base material for Give 'em a Brake sign can be a seperate sheet of aluminum with the corners and borders rounded as shown. This seperate panel shall then be attached to the plywood with aluminum or stainless steel sheet metal screws.
5. Background for the Give 'em a Brake sign shall be Type F reflective orange.





W21-62P

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	AA	BB	CC	DD	Area sq. ft.
1																															
2S																															
2M																															
3	96	48	2 1/4	3/4	1	6	4 1/2	5	12	16 3/4	7 3/8	5 1/2	18 1/4	13 5/8	24	27	30	1 3/8	1/2	5/8	2 1/2	3 1/8	2 3/8	12 1/2	2	10 3/4	14	4 5/8	34 1/2	4	32.0
4																															
5																															

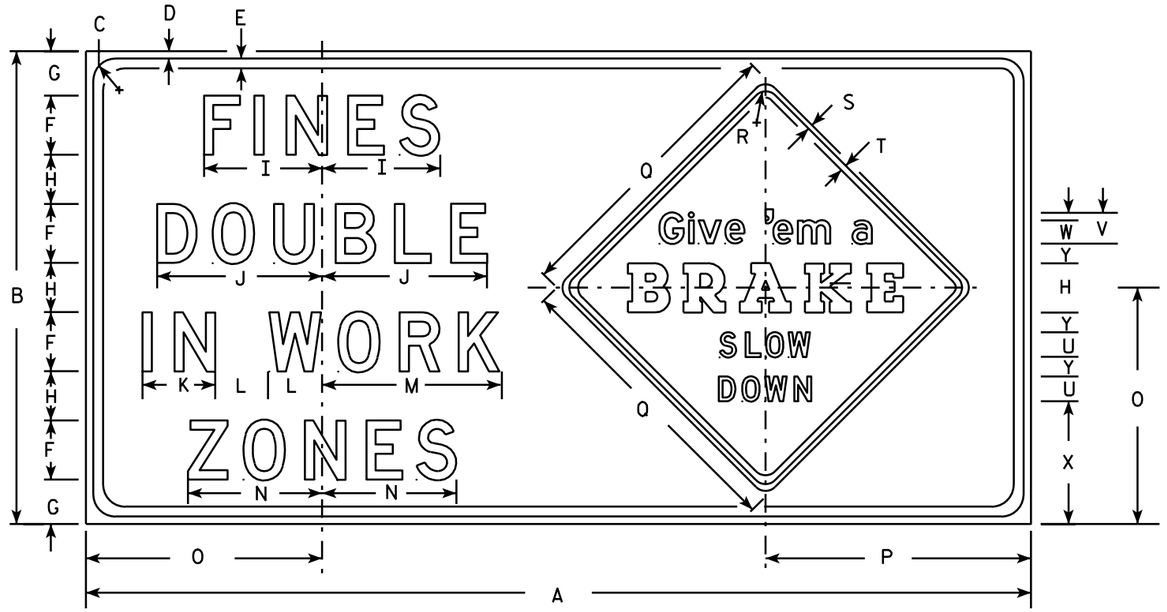
STANDARD SIGN
W21-62

WISCONSIN DEPT OF TRANSPORTATION

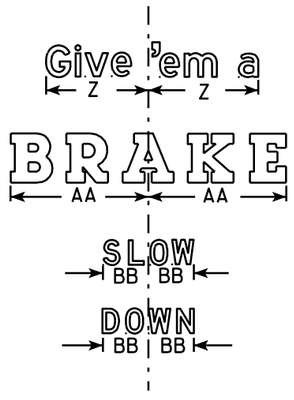
APPROVED Matthew R Rauch
for State Traffic Engineer

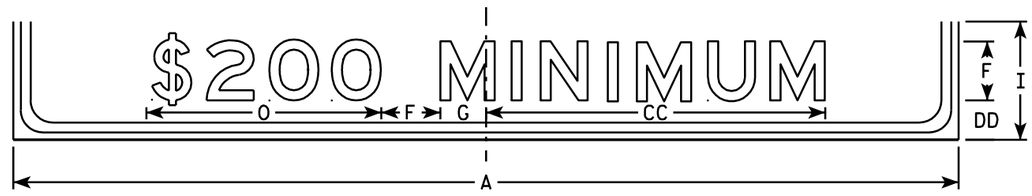
DATE 3/21/11 PLATE NO. W21-62.5

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 278 | E



W21-62





W21-62P

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 - (See Note 5)
   Message - Black
3. Message Series -
   Fines Double Message - All lines are Series D
   Give 'em a Brake -
   Line one is Series E, line two is a Special Graphic Series and lines three and four are Series D.
4. The base material shall be plywood. Corners may be square or rounded, but borders shall be rounded as shown. The base material for Give 'em a Brake sign can be a seperate sheet of aluminum with the corners and borders rounded as shown. This seperate panel shall then be attached to the plywood with aluminum or stainless steel sheet metal screws.
5. Background for the Give 'em a Brake sign shall be Type F reflective orange.

Metric equivalent for this sign is:

SIZE	
1	
2	
3	2400 mm X 1200 mm
4	
5	

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	AA	BB	CC	DD	Area sq. ft.	Area m2
1																																
2																																
3	96	48	2 1/4	3/4	1	6	4 1/2	5	12	16 3/4	7 3/8	5 1/2	18 1/4	13 5/8	24	27	30	1 3/8	1/2	5/8	2 1/2	3 1/8	2 3/8	12 1/2	2	10 3/4	14	4 5/8	34 1/2	4	32.0	2.88
4																																
5																																

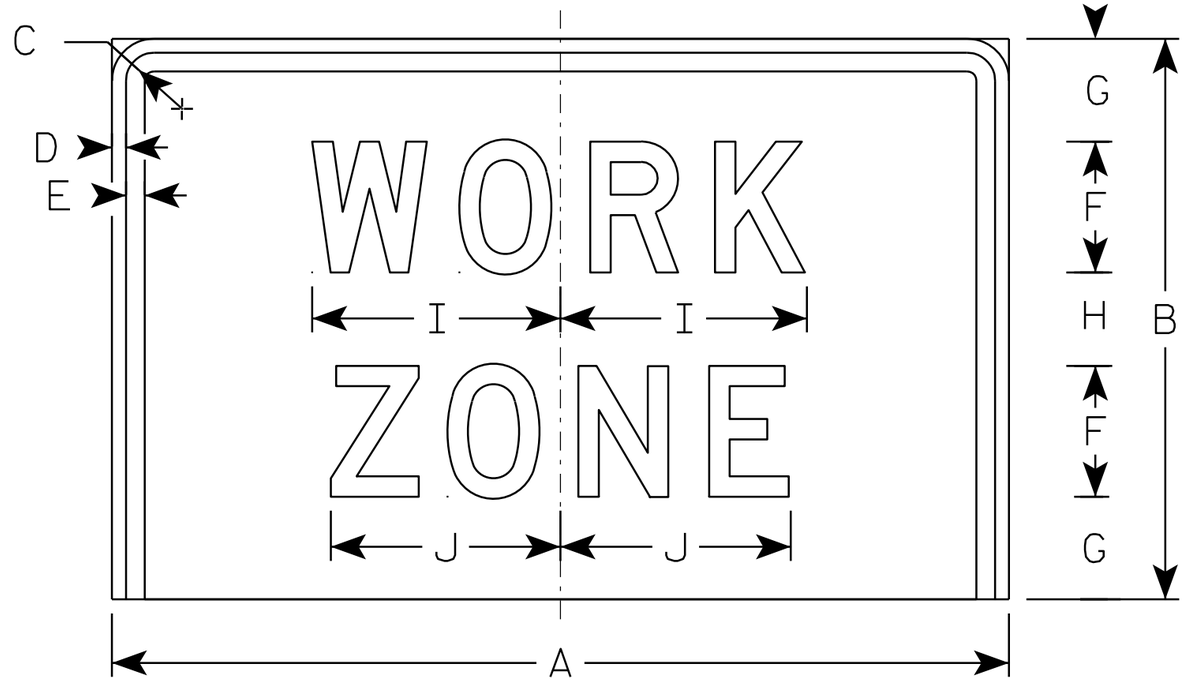
STANDARD SIGN
W21-62

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/16/07 PLATE NO. W21-62.4

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 279 E



W21-620

NOTES

1. Sign is Type II - Type F - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D

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	2 1/4	3/4	1	7	5 1/2	5	13 1/4	12 1/4																	10.0
2M	48	30	2 1/4	3/4	1	7	5 1/2	5	13 1/4	12 1/4																	10.0
3																											
4																											
5																											

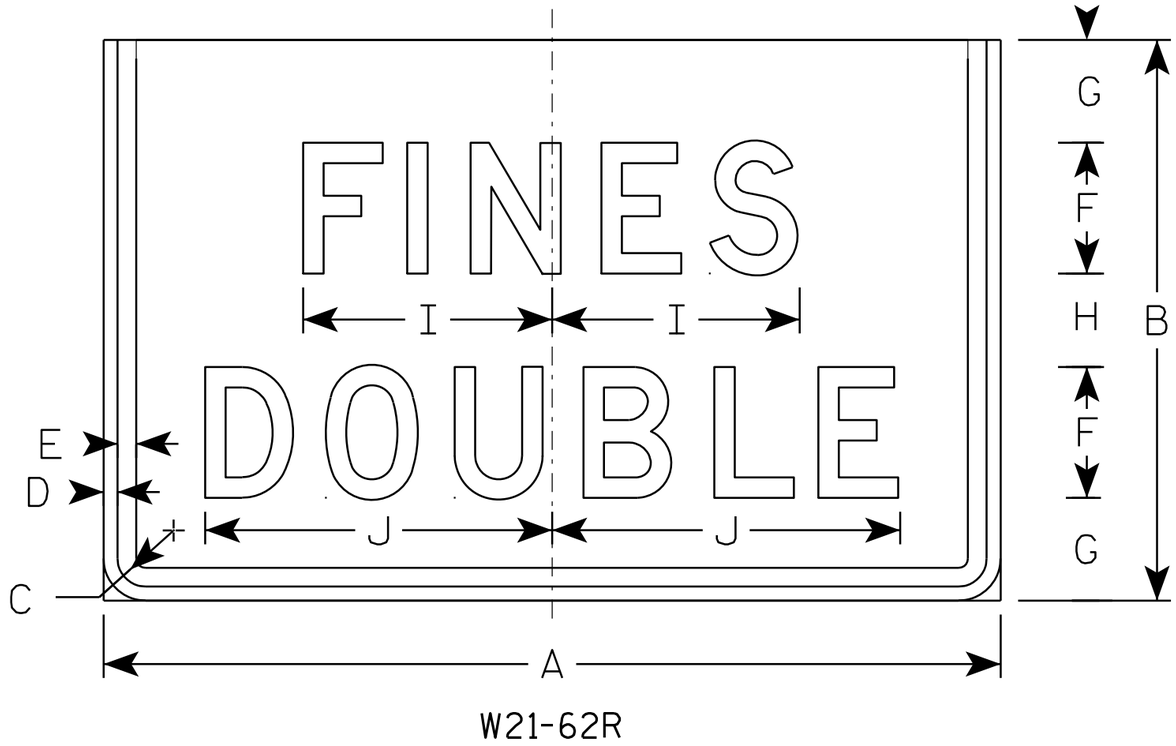
STANDARD SIGN
W21-620

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/11 PLATE NO. W21-620.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 280	E



W21-62R

NOTES

1. Sign is Type II - Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D

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	2 1/4	3/4	1	7	5 1/2	5	13 1/4	18 5/8																	10.0
2M	48	30	2 1/4	3/4	1	7	5 1/2	5	13 1/4	18 5/8																	10.0
3																											
4																											
5																											

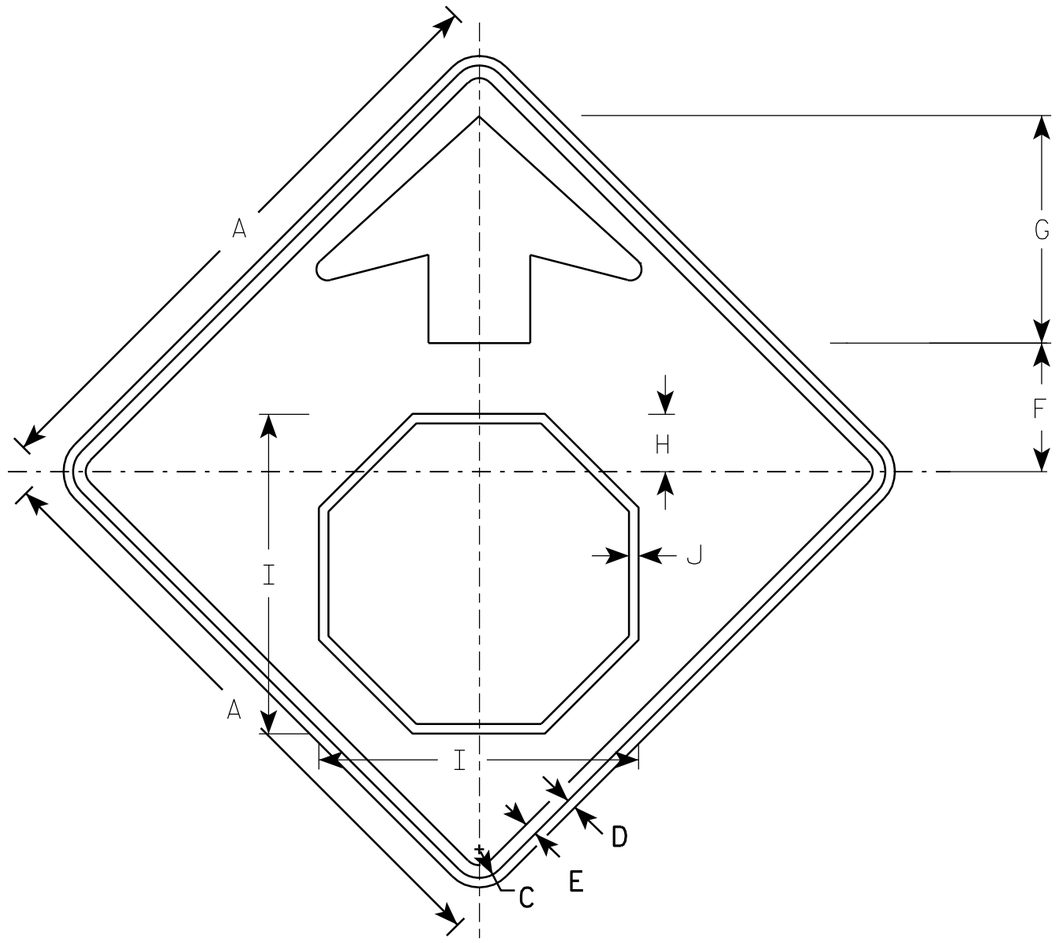
STANDARD SIGN
W21-62R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/11 PLATE NO. W21-62R.2

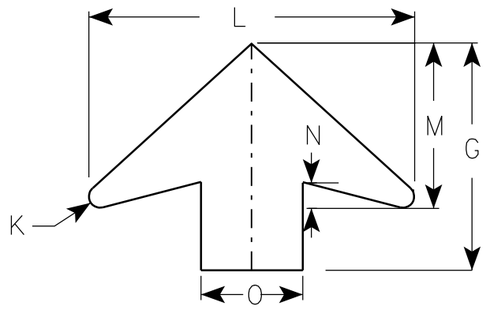
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 281 | E



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

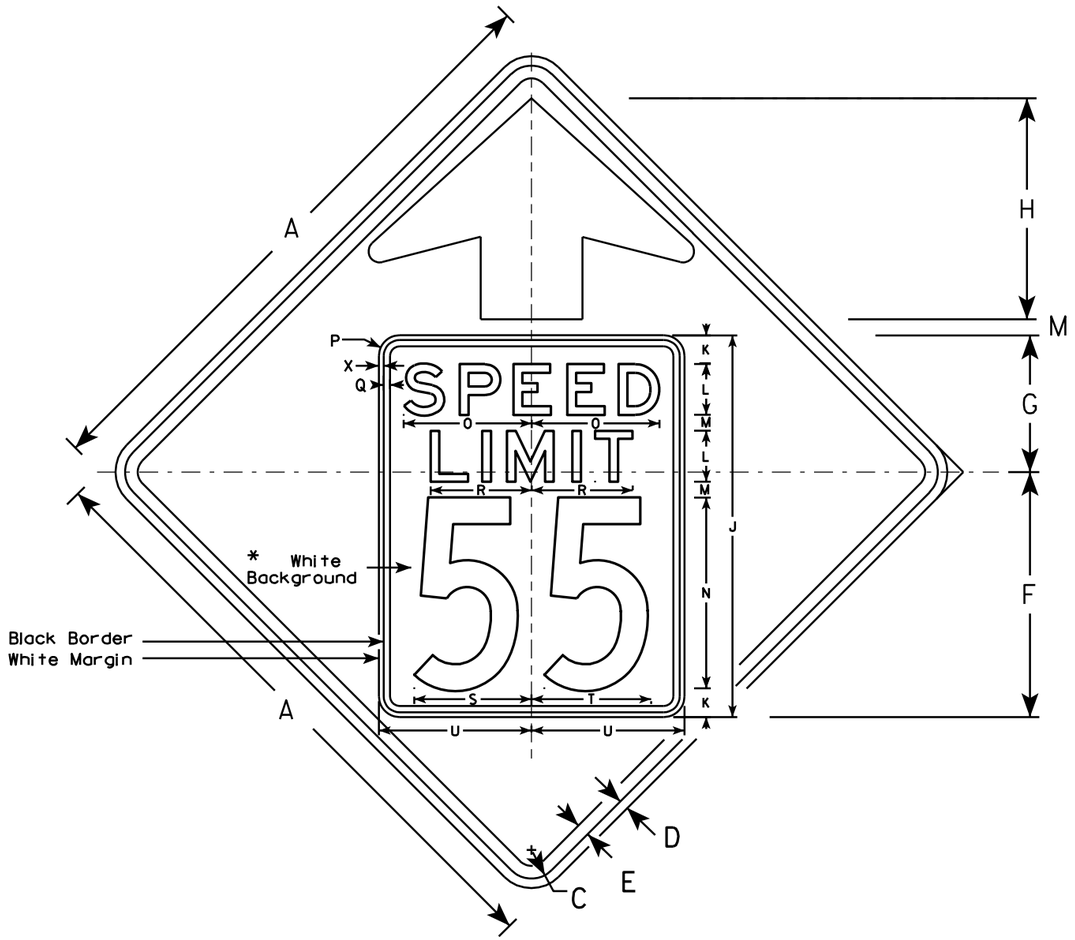
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-1.12

PROJECT NO:

SHEET NO: 282 E

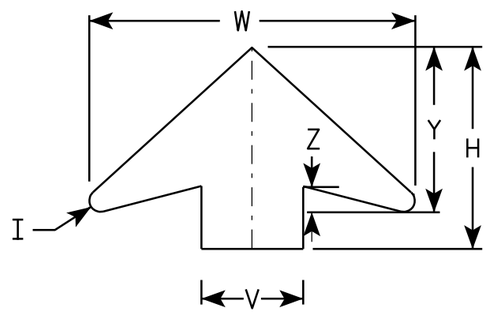


W3-5

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 for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White 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																											
2S	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
2M	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
3	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
4	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN
W3-5

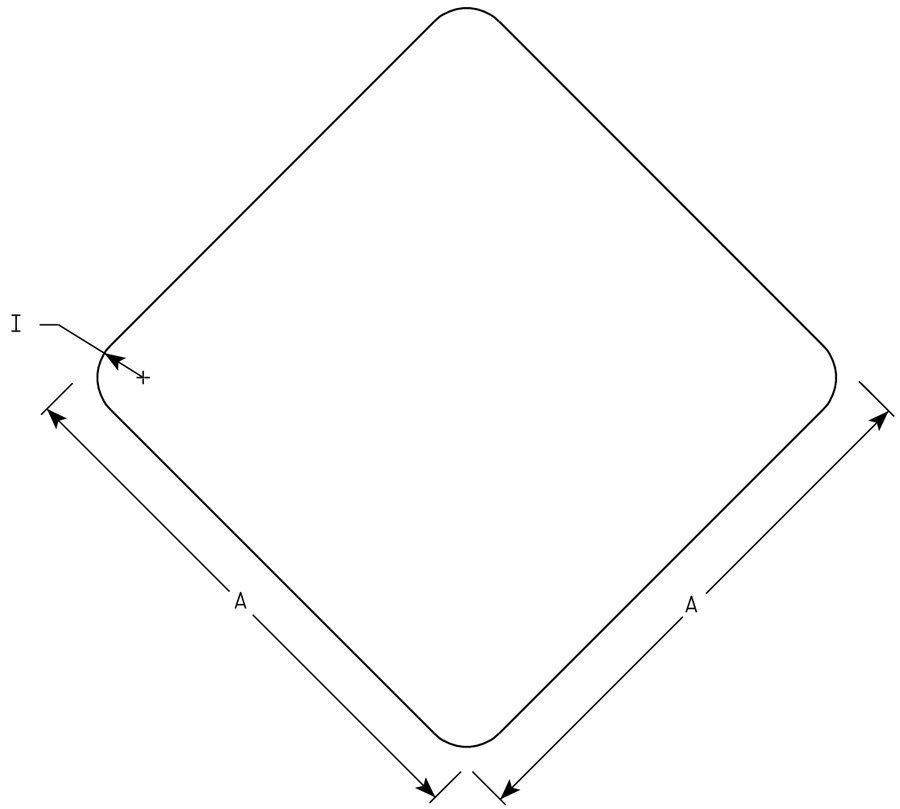
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W3-5.5

PROJECT NO:

SHEET NO: 283 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																											

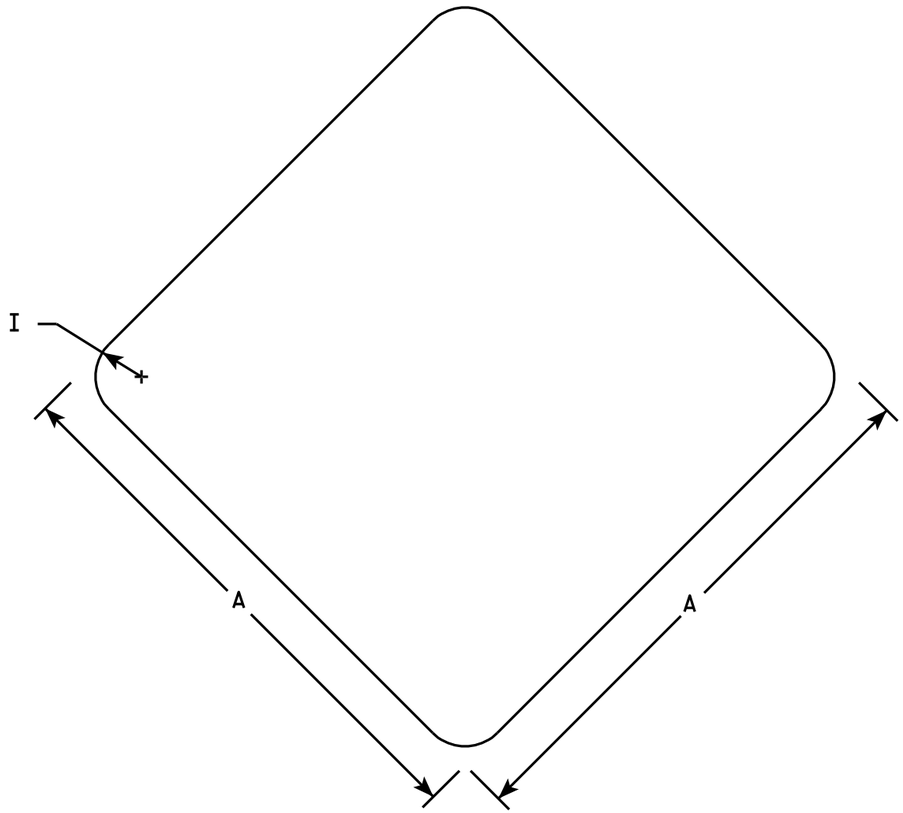
STANDARD SIGN
W5-54

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: 284 | E



W5-56

NOTES

1. Sign is Type II - Type SH Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
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																											

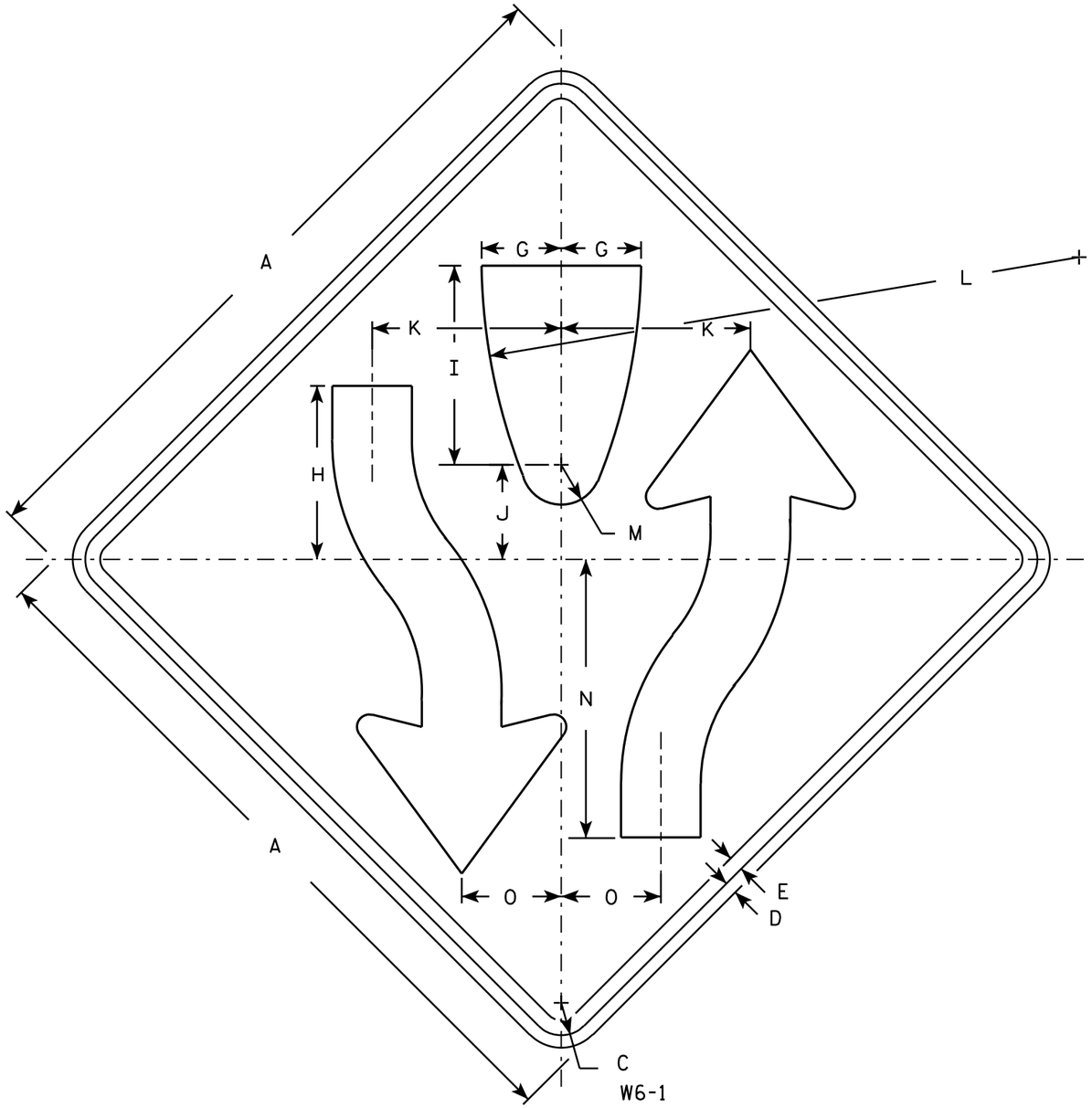
STANDARD SIGN
W5-56

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

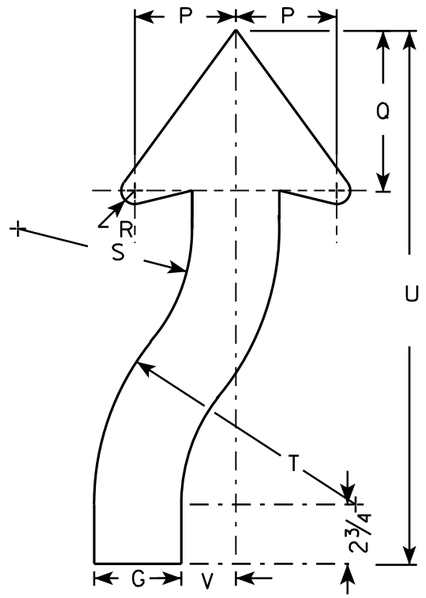
DATE 11/2/10 PLATE NO. W5-56.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 285	E



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W6-2 same as W6-1 but is rotated 180° when mounted.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		3 1/4	8	8 1/4	4 1/8	7 7/8	25	1 3/4	11 5/8	4 1/8	3 7/8	6 3/4	5/8	6 5/8	9 7/8	21 5/8	2					6.25
2S	36		1 5/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
2M	36		1 5/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
3																											
4	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0
5	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0

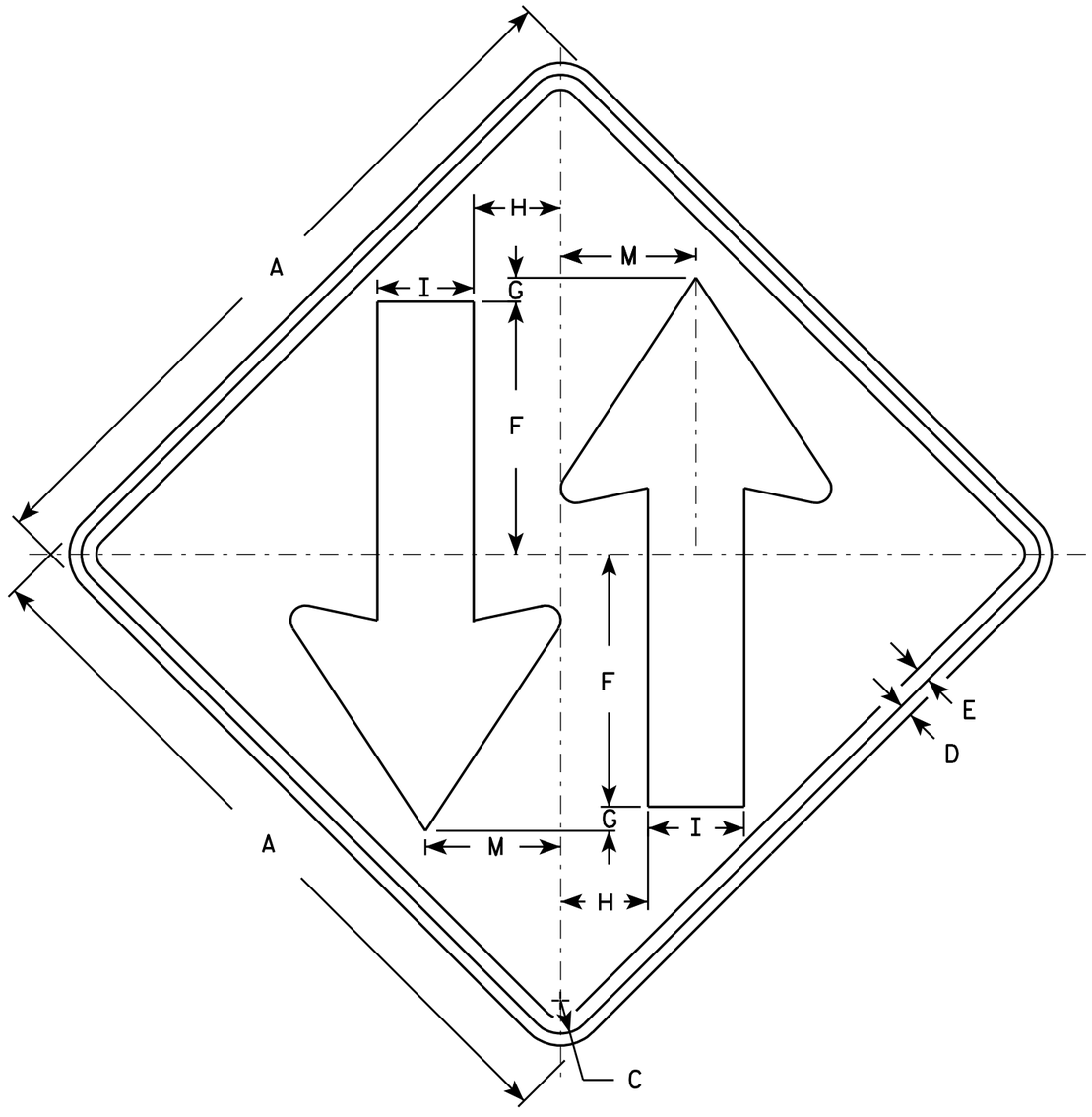
STANDARD SIGN
W6-1 & W6-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/22/11 PLATE NO. W6-1.13

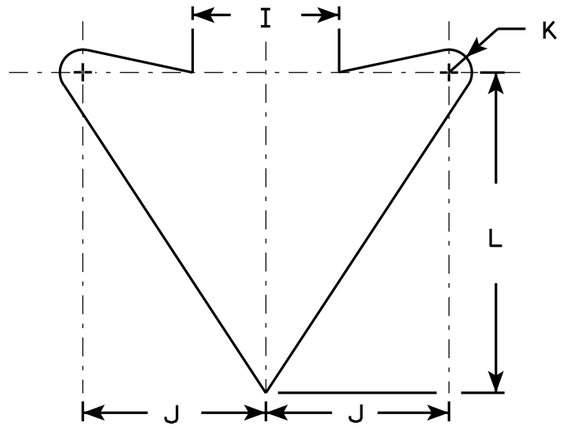
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 286	E



W6-3

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	10 1/2	1	3 5/8	4	5	5/8	8 3/4	5 5/8														6.25
2S	36		1 5/8	5/8	3/4	12	1	4 1/4	5	6	3/4	10 1/2	6 3/4														9.0
2M	36		1 5/8	5/8	3/4	12	1	4 1/4	5	6	3/4	10 1/2	6 3/4														9.0
3																											
4	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
5	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0

STANDARD SIGN
W6-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/22/11 PLATE NO. W6-3.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 287 | E

EARTHWORK

CATEGORY - 1000			A		C	D			H	G	I	J	K
			Item #205.0100**		*	*	*	*	*	*	*	*	*
Division	From / To Station	Location	Excavation Common (1)		Salvaged / Unusable Pavement Material (4)	Available Material (5)	Reduced EBS in Fill (6)	Expanded EBS Backfill (7)	Unexpanded Fill	Estimated Disposal Area Outside 1:1 Slope (8)	Expanded Fill (9)	Mass Ordinate + / - (10) (11)	Waste
			Cut (2)	EBS Excavation (3)			Factor 0.80	Factor 1.30			(CY) Factor 1.25		
			(CY)		(CY)	(CY)			(CY)	(CY)		(CY)	(CY)
1A	3044+00 - 3056+00	EAST FRONTAGE ROAD	9,807	2,322	0	9,807	1,857	3,018	12,108	2,504	12,888	-6,099	0
1A	5053+00 - 5075+50	EAST FRONTAGE ROAD	14,887	19	0	14,887	15	24	11,230	0	14,019	843	843
1A	47+50-57+00	CTH K	2,919	0	0	2,919	0	0	164	0	206	2,714	2,714
1A	10+50-17+50	MICHEL COURT	1,137	0	0	1,137	0	0	367	0	459	678	678
1A	0+50-4+00	SWALE	236	0	0	236	0	0	0	0	0	236	236
1B	3031+00 - 3044+00	EAST FRONTAGE ROAD	16,631	238	831	15,801	190	309	3,942	0	4,689	10,802	10,802
1B	5075+50 - 5079+50	EAST FRONTAGE ROAD	1,793	215	123	1,671	172	279	273	0	127	1,265	1,265
1B	1038+00-1049+00	RAMP SE	7,872	0	351	7,520	0	0	1,521	0	1,901	5,619	5,619
	Grand Total (CY)		58,075		1,305	53,977	2,234	3,631	29,666	2,504	34,289	16,057	22,156

1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
The existing pavement structure is not shown in the cross sections.
2) Cut volume includes Salvaged/Unusable Pavement Material volume above the bottom of the subbase
3) EBS Excavation to be backfilled with Borrow or Cut.
4) The Salvaged/Unusable Pavement Material quantity includes concrete below the bottom of the subbase.
5) Available Material = Cut - Salvaged/Unusable Pavement Material
6) Reduced EBS in Fill - Excavated EBS material is usable in Fills outside the 1:1 slope. EBS in Fill Reduction factor = 0.8
7) Expanded EBS Backfill - This is to be filled with Borrow or Cut material. EBS Backfill Factor = 1.3.
8) The estimated area outisde the 1:1 fill slopes where excavated EBS or excess topsoil material is placed.
9) Expanded Fill
Expanded Fill = (Unexpanded Fill - Reduced EBS) * Fill
If Reduced EBS > than volume available outside of the 1:1 slope subtract only available volume.
Remaining volume of reduced EBS is considered waste.
10) The Mass Ordinate + or - Qty calculated for the Project. A plus quantity indicates an excess of material and a minus indicates a shortage of material.
11) Use 227 cubic yards of material from Ramp SE as fill for the 227 cubic yards of material needed for the East Frontage Road

** ADDITIONAL QUANTITIES SHOWN ELSEWHERE SEE REMOVING DRIVEWAYS
* FOR INFORMATION ONLY

REPLACED WITH
REVISED SHEET 288
2-1-2013

Plan Revision
1030-11-70
Revised Page 288
February 1, 2013

EARTHWORK

CATEGORY - 1000			A		C	D			H	G	I	J	K
			Item #205.0100**		*	*	*	*	*	*	*	*	*
Division	From / To Station	Location	Excavation Common (1)		Salvaged / Unusable Pavement Material (4)	Available Material (5)	Reduced EBS in Fill (6)	Expanded EBS Backfill (7)	Unexpanded Fill	Estimated Disposal Area Outside 1:1 Slope (8)	Expanded Fill (9)	Mass Ordinate + / - (10) (11)	Waste
			Cut (2)	EBS Excavation (3)			Factor 0.80	Factor 1.30			(CY) Factor 1.25		
			(CY)		(CY)	(CY)			(CY)	(CY)		(CY)	(CY)
1A	3044+00 - 3056+00	EAST FRONTAGE ROAD	9,807	2,322	0	9,807	1,857	3,018	12,168	2,504	12,888	-6,099	0
1A	5053+00 - 5075+50	EAST FRONTAGE ROAD	15,489	3,376	0	15,489	2,701	4,389	10,708	0	10,010	1,090	1,090
1A	47+50-57+00	CTH K	2,919	0	0	2,919	0	0	164	0	206	2,714	2,714
1A	10+50-17+50	MICHEL COURT	1,137	0	0	1,137	0	0	367	0	459	678	678
1A	0+50-4+00	SWALE	236	0	0	236	0	0	0	0	0	236	236
1B	3031+00 - 3044+00	EAST FRONTAGE ROAD	16,631	238	831	15,801	190	309	3,942	0	4,689	10,802	10,802
1B	5075+50 - 5079+50	EAST FRONTAGE ROAD	1,793	215	123	1,671	172	279	273	0	127	1,265	1,265
1B	1038+00-1049+00	RAMP SE	7,872	0	351	7,520	0	0	1,521	0	1,901	5,619	5,619
	Grand Total (CY)		62,035		1,305	54,580	4,920	7,996	29,144	2,504	30,280	16,304	22,403

1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
The existing pavement structure is not shown in the cross sections.
2) Cut volume includes Salvaged/Unusable Pavement Material volume above the bottom of the subbase
3) EBS Excavation to be backfilled with Borrow or Cut.
4) The Salvaged/Unusable Pavement Material quantity includes concrete below the bottom of the subbase.
5) Available Material = Cut - Salvaged/Unusable Pavement Material
6) Reduced EBS in Fill - Excavated EBS material is usable in Fills outside the 1:1 slope. EBS in Fill Reduction factor = 0.8
7) Expanded EBS Backfill - This is to be filled with Borrow or Cut material. EBS Backfill Factor = 1.3.
8) The estimated area outisde the 1:1 fill slopes where excavated EBS or excess topsoil material is placed.
9) Expanded Fill
Expanded Fill = (Unexpanded Fill - Reduced EBS) * Fill
If Reduced EBS > than volume available outside of the 1:1 slope subtract only available volume.
Remaining volume of reduced EBS is considered waste.
10) The Mass Ordinate + or - Qty calculated for the Project. A plus quantity indicates an excess of material and a minus indicates a shortage of material.
11) Use 227 cubic yards of material from Ramp SE as fill for the 227 cubic yards of material needed for the East Frontage Road

** ADDITIONAL QUANTITIES SHOWN ELSEWHERE SEE REMOVING DRIVEWAYS
* FOR INFORMATION ONLY

9

REPLACED WITH
REVISED SHEET 288
5-16-2013

9

EARTHWORK

Division	From/To Station	Location	CATEGORY - 1000		A	C	D			H	G	I	J	K
					Item #205.0100**	*	*	*	*	*	*	*	*	*
			Excavation Common (1)			Salvaged/ Unusable Pavement Material (4)	Available Material (5)	Reduced EBS in Fill (6)	Expanded EBS Backfill (7)	Unexpanded Fill	Estimated Disposal Area Outside 1:1 Slope (8)	Expanded Fill (9)	Mass Ordinate +/- (10) (11)	Waste
			Cut (2)	EBS Excavation (3)	(CY)	(CY)	(CY)	Factor 0.80	Factor 1.30	(CY)	(CY)	(CY) Factor 1.25	(CY)	(CY)
1A	3044+00 - 3056+00	EAST FRONTAGE ROAD	9,807	2,322		0	9,807	1,857	3,018	12,168	2,504	12,888	-6,099	0
1A	5053+00 - 5075+50	EAST FRONTAGE ROAD	15,489	3,376		0	15,489	2,701	4,389	9,877	0	8,970	2,130	2,130
1A	47+50-57+00	CTH K	2,919	0		0	2,919	0	0	164	0	206	2,714	2,714
1A	10+50-17+50	MICHEL COURT	1,137	0		0	1,137	0	0	367	0	459	678	678
1A	0+50-4+00	SWALE	236	0		0	236	0	0	0	0	0	236	236
1B	3031+00 - 3044+00	EAST FRONTAGE ROAD	16,631	238		831	15,801	190	309	3,942	0	4,689	10,802	10,802
1B	5075+50 - 5079+50	EAST FRONTAGE ROAD	1,793	215		123	1,671	172	279	273	0	127	1,265	1,265
1B	1038+00-1049+00	RAMP SE	7,872	0		351	7,520	0	0	1,521	0	1,901	5,619	5,619
	Grand Total (CY)		62,035			1,305	54,580	4,920	7,996	28,313	2,504	29,241	17,343	23,442

Plan Revision
1030-11-70
Revised Page 288
May 16, 2013

1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
The existing pavement structure is not shown in the cross sections.
2) Cut volume includes Salvaged/Unusable Pavement Material volume above the bottom of the subbase
3) EBS Excavation to be backfilled with Borrow or Cut.
4) The Salvaged/Unusable Pavement Material quantity includes concrete below the bottom of the subbase.
5) Available Material = Cut - Salvaged/Unusable Pavement Material
6) Reduced EBS in Fill - Excavated EBS material is usable in Fills outside the 1:1 slope. EBS in Fill Reduction factor = 0.8
7) Expanded EBS Backfill - This is to be filled with Borrow or Cut material. EBS Backfill Factor = 1.3.
8) The estimated area outisde the 1:1 fill slopes where excavated EBS or excess topsoil material is placed.
9) Expanded Fill
Expanded Fill = (Unexpanded Fill - Reduced EBS) * Fill
If Reduced EBS > than volume available outside of the 1:1 slope subtract only available volume.
Remaining volume of reduced EBS is considered waste.
10) The Mass Ordinate + or - Qty calculated for the Project. A plus quantity indicates an excess of material and a minus indicates a shortage of material.
11) Use 227 cubic yards of material from Ramp SE as fill for the 227 cubic yards of material needed for the East Frontage Road

** ADDITIONAL QUANTITIES SHOWN ELSEWHERE SEE REMOVING DRIVEWAYS
* FOR INFORMATION ONLY

EAST FRONTAGE ROAD DETAILS

STATION		Real Station	Distance	AREA (SF) EBS	AREA (SF) Cut	AREA (SF) Salvaged / Unusable Pavement Material	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Salvaged / Unusable Pavement Material Note 2	Incremental Vol (CY) (Unadjusted) Fill Note 3	Incremental Vol (CY) (Unadjusted) EBS	Incremental Vol (CY) (Unadjusted) Available Area Outside the 1:1 for Marsh Disposal	Cumulative Vol (CY) Cut Note 1	Cumulative Vol (CY) Expanded Fill 1.25	Cumulative Vol (CY) Salvaged Unuseable Pavement Material	Cumulative Vol (CY) Expanded EBS Backfill 1.30 Note 4	Cumulative Vol (CY) Reduced EBS In Fill 0.80 Note 5	Mass Ordinate CY
3031+00	AH	303,100	0	0	275	23	69	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0.00
3031+50		303,150	50	0	297	23	52	529.32	42.59	111.65	0.00	0.00	529	140	43	0	0	347
3032+00		303,200	50	15	322	23	27	573.28	42.59	72.62	13.89	0.00	1103	216	85	18	11	783
3032+50		303,250	50	24	289	23	8	565.73	42.59	32.55	35.94	0.00	1668	221	128	65	40	1255
3033+00		303,300	50	0	311	23	0	555.34	42.59	7.67	22.06	0.00	2224	209	170	93	58	1751
3033+50		303,350	50	0	343	23	0	605.53	42.59	0.28	0.00	0.00	2829	209	213	93	58	2314
3034+00		303,400	50	0	396	23	0	684.50	42.59	0.28	0.00	0.00	3514	209	256	93	58	2955
3034+50		303,450	50	0	317	23	0	660.64	42.59	0.00	0.00	0.00	4174	209	298	93	58	3573
3035+00		303,500	50	0	299	23	17	570.09	42.59	15.55	0.00	0.00	4744	229	341	93	58	4081
3035+50		303,550	50	0	343	23	26	593.56	42.59	39.73	0.00	0.00	5338	279	383	93	58	4583
3036+00		303,600	50	0	388	23	27	676.81	42.59	49.37	0.00	0.00	6015	340	426	93	58	5155
3036+50		303,650	50	0	473	23	25	797.36	42.59	48.10	0.00	0.00	6812	400	469	93	58	5850
3037+00		303,700	50	0	506	23	30	906.11	42.59	50.32	0.00	0.00	7718	463	511	93	58	6650
3037+50		303,750	50	0	573	23	28	999.22	42.59	53.12	0.00	0.00	8718	530	554	93	58	7541
3038+00		303,800	50	5	616	23	22	1,101.57	42.59	46.45	4.63	0.00	9819	583	596	99	61	8540
3038+50		303,850	50	37	561	23	12	1,089.94	42.59	31.42	38.56	0.00	10909	584	639	150	92	9537
3039+00		303,900	50	25	574	23	58	1,050.75	42.59	64.07	56.96	0.00	11960	607	681	224	138	10448
3039+50		303,950	50	23	405	23	244	906.82	42.59	279.67	44.45	0.00	12867	912	724	281	173	10949
3040+00		304,000	50	0	318	23	383	670.04	42.59	581.01	21.43	0.00	13537	1617	767	309	190	10844
3040+50		304,050	50	0	93	23	418	381.05	42.59	742.17	0.00	0.00	13918	2545	809	309	190	10255
3041+00		304,100	50	0	20	0	438	105.07	21.30	792.60	0.00	0.00	14023	3535	831	309	190	9348
3041+50		304,150	50	0	26	0	254	42.77	0.00	640.80	0.00	0.00	14066	4336	831	309	190	8589
3042+00		304,200	50	0	51	0	25	71.39	0.00	258.99	0.00	0.00	14137	4660	831	309	190	8337
3042+50		304,250	50	0	247	0	0	276.16	0.00	23.37	0.00	0.00	14413	4689	831	309	190	8584
3043+00		304,300	50	0	411	0	0	608.84	0.00	0.00	0.00	0.00	15022	4689	831	309	190	9193
3043+50		304,350	50	0	489	0	0	832.83	0.00	0.00	0.00	0.00	15855	4689	831	309	190	10026
3044+00	BK	304,400	50	0	350	0	0	776.55	0.00	0.00	0.00	0.00	16631	4689	831	309	190	10802
TOTALS								16,631.29	830.56	3,941.78	237.93	0.00						

EAST FRONTAGE ROAD DETAILS

STATION		Real Station	Distance	AREA (SF) EBS	AREA (SF) Cut	AREA (SF) Salvaged / Unusable Pavement Material	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Salvaged / Unusable Pavement Material Note 2	Incremental Vol (CY) (Unadjusted) Fill Note 3	Incremental Vol (CY) (Unadjusted) EBS	Incremental Vol (CY) (Unadjusted) Available Area Outside the 1:1 for Marsh Disposal Note 4	Cumulative Vol (CY) Cut Note 1	Cumulative Vol (CY) Expanded Fill 1.25	Cumulative Vol (CY) Salvaged Unuseable Pavement Material	Cumulative Vol (CY) Expanded EBS Backfill 1.30 Note 4	Cumulative Vol (CY) Reduced EBS In Fill 0.80 Note 5	Mass Ordinate CY
3044+00	AH	304,400	0	0	350	0	0	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0.00
3044+50		304,450	50	0	391	0	0	362.17	0.00	0.00	0.00	0.00	362	0	0	0	0	362
3045+00		304,500	50	0	548	0	0	869.15	0.00	0.00	0.00	0.00	1231	0	0	0	0	1231
3045+50		304,550	50	0	751	0	0	1,202.69	0.00	0.00	0.00	0.00	2434	0	0	0	0	2434
3046+00		304,600	50	0	700	0	0	1,344.19	0.00	0.00	0.00	0.00	3778	0	0	0	0	3778
3046+50		304,650	50	0	441	0	0	1,056.98	0.00	0.26	0.00	0.00	4835	0	0	0	0	4835
3047+00		304,700	50	0	169	0	108	565.31	0.00	100.06	0.00	42.28	5400	125	0	0	0	5275
3047+50		304,750	50	0	28	0	346	182.56	0.00	419.73	0.00	137.00	5583	650	0	0	0	4933
3048+00		304,800	50	0	2	0	570	27.31	0.00	847.56	0.00	230.71	5610	1710	0	0	0	3901
3048+50		304,850	50	0	20	0	604	20.30	0.00	1,086.88	0.00	289.17	5631	3068	0	0	0	2563
3049+00		304,900	50	0	68	0	601	81.95	0.00	1,116.14	0.00	289.17	5713	4463	0	0	0	1249
3049+50		304,950	50	0	63	0	715	121.66	0.00	1,218.61	0.00	313.33	5834	5987	0	0	0	-152
3050+00		305,000	50	392	36	0	818	91.95	0.00	1,419.00	362.75	348.68	5926	7398	0	472	290	-1943
3050+50		305,050	50	421	5	0	897	37.84	0.00	1,587.62	752.56	308.33	5964	8630	0	1,450	892	-4115
3051+00		305,100	50	441	2	0	713	6.13	0.00	1,490.71	798.02	228.06	5970	9695	0	2,487	1,531	-6212
3051+50		305,150	50	0	12	0	526	12.96	0.00	1,147.44	408.20	159.99	5983	10721	0	3,018	1,857	-7756
3052+00		305,200	50	0	17	0	391	27.24	0.00	849.04	0.00	113.19	6010	11782	0	3,018	1,857	-8790
3052+50		305,250	50	0	10	0	189	25.31	0.00	536.71	0.00	44.27	6036	12453	0	3,018	1,857	-9435
3053+00		305,300	50	0	16	0	94	14.82	0.00	261.44	0.00	0.00	6051	12780	0	3,018	1,857	-9747
3053+50		305,350	50	0	84	0	0	92.56	0.00	86.69	0.00	0.00	6143	12888	0	3,018	1,857	-9763
3054+00		305,400	50	0	235	0	0	295.62	0.00	0.00	0.00	0.00	6439	12888	0	3,018	1,857	-9468
3054+50		305,450	50	0	326	0	0	519.44	0.00	0.00	0.00	0.00	6958	12888	0	3,018	1,857	-8948
3055+00		305,500	50	0	533	0	0	794.80	0.00	0.00	0.00	0.00	7753	12888	0	3,018	1,857	-8153
3055+50		305,550	50	0	709	0	0	1,150.11	0.00	0.00	0.00	0.00	8903	12888	0	3,018	1,857	-7003
3056+00	BK	305,600	50	0	267	0	0	904.34	0.00	0.00	0.00	0.00	9807	12888	0	3,018	1,857	-6099
TOTALS								9,807.40	0.00	12,167.89	2,321.54	2,504.19						

EAST FRONTAGE ROAD DETAILS

STATION		Real Station	Distance	AREA (SF) EBS	AREA (SF) Cut	AREA (SF) Salvaged / Unusable Pavement Material	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Salvaged / Unusable Pavement Material Note 2	Incremental Vol (CY) (Unadjusted) Fill Note 3	Incremental Vol (CY) (Unadjusted) EBS	Incremental Vol (CY) (Unadjusted) Available Area Outside the 1:1 for Marsh Disposal Note 4	Cumulative Vol (CY) Cut Note 1	Cumulative Vol (CY) Expanded Fill 1.25	Cumulative Vol (CY) Salvaged Unuseable Pavement Material	Cumulative Vol (CY) Expanded EBS Backfill 1.30 Note 4	Cumulative Vol (CY) Reduced EBS In Fill 0.80 Note 5	Mass Ordinate CY
5053+00	AH	505,300	0	0	42	0	44	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0
5053+50		505,350	50	0	38	0	72	74.08	0.00	107.61	0.00	0.00	74	135	0	0	0	-60
5054+00		505,400	50	0	24	0	138	57.32	0.00	195.05	0.00	0.00	131	378	0	0	0	-247
5054+50		505,450	50	0	17	0	139	38.32	0.00	256.91	0.00	0.00	170	699	0	0	0	-530
5055+00		505,500	50	0	33	0	44	46.51	0.00	169.46	0.00	0.00	216	911	0	0	0	-695
5055+50		505,550	50	0	46	0	14	73.35	0.00	53.93	0.00	0.00	290	979	0	0	0	-689
5056+00		505,600	50	0	29	0	86	69.91	0.00	93.01	0.00	0.00	360	1095	0	0	0	-735
5056+50		505,650	50	0	20	0	180	45.20	0.00	246.53	0.00	0.00	405	1403	0	0	0	-998
5057+00		505,700	50	0	17	0	319	34.14	0.00	462.30	0.00	0.00	439	1981	0	0	0	-1542
5057+50		505,750	50	0	10	0	336	25.53	0.00	606.82	0.00	0.00	464	2740	0	0	0	-2275
5058+00		505,800	50	0	77	0	224	81.06	0.00	518.38	0.00	0.00	545	3387	0	0	0	-2842
5058+50		505,850	50	0	131	0	255	193.04	0.00	443.07	0.00	0.00	738	3941	0	0	0	-3203
5059+00		505,900	50	0	26	0	321	145.81	0.00	533.44	0.00	0.00	884	4608	0	0	0	-3724
5059+50		505,950	50	0	23	0	321	45.67	0.00	594.18	0.00	0.00	930	5351	0	0	0	-4421
5060+00		506,000	50	0	13	0	315	33.07	0.00	588.18	0.00	0.00	963	6086	0	0	0	-5123
5060+50		506,050	50	0	37	0	273	45.94	0.00	544.14	0.00	0.00	1009	6766	0	0	0	-5757
5061+00		506,100	50	0	0	0	277	34.23	0.00	508.94	0.00	0.00	1043	7402	0	0	0	-6359
5061+50		506,150	50	0	15	0	251	14.16	0.00	488.99	0.00	0.00	1057	8014	0	0	0	-6956
5062+00		506,200	50	0	13	0	274	25.84	0.00	486.96	0.00	0.00	1083	8622	0	0	0	-7539
5062+50		506,250	50	0	24	0	268	33.81	0.00	502.31	0.00	0.00	1117	9250	0	0	0	-8133
5063+00		506,300	50	0	23	0	274	43.13	0.00	501.62	0.00	0.00	1160	9877	0	0	0	-8717
5063+50		506,350	50	0	13	0	210	33.33	0.00	447.70	0.00	0.00	1193	10437	0	0	0	-9243
5064+00		506,400	50	0	15	0	143	26.13	0.00	326.57	0.00	0.00	1220	10845	0	0	0	-9626
5064+50		506,450	50	0	11	0	192	23.98	0.00	310.32	0.00	0.00	1244	11233	0	0	0	-9989
5065+00		506,500	50	0	4	0	239	14.03	0.00	398.97	0.00	0.00	1258	11732	0	0	0	-10474
5065+50		506,550	50	0	4	0	165	7.12	0.00	373.75	0.00	0.00	1265	12199	0	0	0	-10934
5066+00		506,600	50	0	23	0	41	24.37	0.00	190.52	0.00	0.00	1289	12437	0	0	0	-11148
5066+50		506,650	50	0	207	0	0	212.43	0.00	37.72	0.00	0.00	1502	12484	0	0	0	-10983
5067+00		506,700	50	0	546	0	0	696.56	0.00	0.00	0.00	0.00	2198	12484	0	0	0	-10286
5067+50		506,750	50	0	739	0	0	1,189.35	0.00	0.00	0.00	0.00	3387	12484	0	0	0	-9097
5068+00		506,800	50	0	792	0	0	1,417.15	0.00	0.00	0.00	0.00	4805	12484	0	0	0	-7680
5068+50		506,850	50	0	647	0	0	1,331.94	0.00	0.00	0.00	0.00	6137	12484	0	0	0	-6348
5069+00		506,900	50	0	447	0	0	1,012.66	0.00	0.00	0.00	0.00	7149	12484	0	0	0	-5335
5069+50		506,950	50	0	385	0	0	770.40	0.00	0.00	0.00	0.00	7920	12484	0	0	0	-4565
5070+00		507,000	50	0	358	0	0	688.54	0.00	0.00	0.00	0.00	8608	12484	0	0	0	-3876
5070+50		507,050	50	0	547	0	0	838.43	0.00	0.00	0.00	0.00	9447	12484	0	0	0	-3038
5071+00		507,100	50	0	709	0	0	1,162.83	0.00	0.00	0.00	0.00	10609	12484	0	0	0	-1875
5071+50		507,150	50	0	406	0	0	1,032.47	0.00	0.00	0.00	0.00	11642	12484	0	0	0	-842
5072+00		507,200	50	0	173	0	0	535.94	0.00	0.00	0.00	0.00	12178	12484	0	0	0	-306
5072+50		507,250	50	0	40	0	69	196.36	0.00	64.28	0.00	0.00	12374	12565	0	0	0	-190
5073+00		507,300	50	0	23	0	183	57.75	0.00	233.33	0.00	0.00	12432	12856	0	0	0	-424
5073+50		507,350	50	0	71	0	177	86.94	0.00	333.09	0.00	0.00	12519	13273	0	0	0	-754
5074+00		507,400	50	0	358	0	108	397.12	0.00	263.63	0.00	0.00	12916	13602	0	0	0	-686
5074+50		507,450	50	0	373	0	67	676.22	0.00	161.81	0.00	0.00	13592	13804	0	0	0	-212
5075+00		507,500	50	0	344	0	43	663.79	0.00	101.98	0.00	0.00	14256	13932	0	0	0	324
5075+50	BK	507,550	50	20	337	0	49	630.60	0.00	84.70	18.66	0.00	14887	14019	0	24	15	REPLACED WITH REVISED SHEET 291 2-1-2013
TOTALS								14,886.56	0.00	11,230.21	18.66	0.00						

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EAST FRONTAGE ROAD DETAILS

STATION		Real Station	Distance	AREA (SF) EBS	AREA (SF) Cut	AREA (SF) Salvaged / Unusable Pavement Material	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Salvaged / Unusable Pavement Material Note 2	Fill Note 3	EBS	Available Area Outside the 1:1 for Marsh Disposal Note 4	Cumulative Vol (CY) Cut Note 1	Expanded Fill 1.25	Salvaged Unuseable Pavement Material	Expanded EBS Backfill 1.30 Note 4	Reduced EBS In Fill 0.80 Note 5	Mass Ordinate CY
5053+00	AH	505,300	0	0	173	0	3	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0
5053+50		505,350	50	0	141	0	7	291.39	0.00	8.68	0.00	0.00	291	11	0	0	0	281
5054+00		505,400	50	437	79	0	29	203.82	0.00	32.98	404.63	0.00	495	-353	0	526	324	322
5054+50		505,450	50	730	38	0	60	107.87	0.00	82.64	1,080.56	0.00	603	-1330	0	1,931	1,188	2
5055+00		505,500	50	646	54	0	44	85.19	0.00	96.32	1,274.07	0.00	688	-2483	0	3,597	2,207	-415
5055+50		505,550	50	0	106	0	7	148.33	0.00	47.25	598.15	0.00	837	-3023	0	4,365	2,686	-505
5056+00		505,600	50	0	29	0	86	125.21	0.00	86.33	0.00	0.00	962	-2915	0	4,365	2,686	-488
5056+50		505,650	50	0	20	0	180	45.20	0.00	246.53	0.00	0.00	1007	-2606	0	4,365	2,686	-751
5057+00		505,700	50	0	17	0	319	34.14	0.00	462.30	0.00	0.00	1041	-2029	0	4,365	2,686	-1295
5057+50		505,750	50	0	10	0	336	25.53	0.00	606.82	0.00	0.00	1067	-1270	0	4,365	2,686	-2028
5058+00		505,800	50	0	77	0	224	81.06	0.00	518.38	0.00	0.00	1148	-622	0	4,365	2,686	-2595
5058+50		505,850	50	0	131	0	255	193.04	0.00	443.07	0.00	0.00	1341	-68	0	4,365	2,686	-2956
5059+00		505,900	50	0	26	0	321	145.81	0.00	533.44	0.00	0.00	1487	599	0	4,365	2,686	-3477
5059+50		505,950	50	0	23	0	321	45.67	0.00	594.18	0.00	0.00	1532	1341	0	4,365	2,686	-4174
5060+00		506,000	50	0	13	0	315	33.07	0.00	588.18	0.00	0.00	1565	2076	0	4,365	2,686	-4876
5060+50		506,050	50	0	37	0	273	45.94	0.00	544.14	0.00	0.00	1611	2757	0	4,365	2,686	-5510
5061+00		506,100	50	0	0	0	277	34.23	0.00	508.94	0.00	0.00	1646	3393	0	4,365	2,686	-6112
5061+50		506,150	50	0	15	0	251	14.16	0.00	488.99	0.00	0.00	1660	4004	0	4,365	2,686	-6709
5062+00		506,200	50	0	13	0	274	25.84	0.00	486.96	0.00	0.00	1686	4613	0	4,365	2,686	-7292
5062+50		506,250	50	0	24	0	268	33.81	0.00	502.31	0.00	0.00	1719	5241	0	4,365	2,686	-7886
5063+00		506,300	50	0	23	0	274	43.13	0.00	501.62	0.00	0.00	1762	5868	0	4,365	2,686	-8470
5063+50		506,350	50	0	13	0	210	33.33	0.00	447.70	0.00	0.00	1796	6427	0	4,365	2,686	-8996
5064+00		506,400	50	0	15	0	143	26.13	0.00	326.57	0.00	0.00	1822	6836	0	4,365	2,686	-9378
5064+50		506,450	50	0	11	0	192	23.98	0.00	310.32	0.00	0.00	1846	7223	0	4,365	2,686	-9742
5065+00		506,500	50	0	4	0	239	14.03	0.00	398.97	0.00	0.00	1860	7722	0	4,365	2,686	-10227
5065+50		506,550	50	0	4	0	165	7.12	0.00	373.75	0.00	0.00	1867	8189	0	4,365	2,686	-10687
5066+00		506,600	50	0	23	0	41	24.37	0.00	190.52	0.00	0.00	1891	8427	0	4,365	2,686	-10901
5066+50		506,650	50	0	207	0	0	212.43	0.00	37.72	0.00	0.00	2104	8475	0	4,365	2,686	-10735
5067+00		506,700	50	0	546	0	0	696.56	0.00	0.00	0.00	0.00	2800	8475	0	4,365	2,686	-10039
5067+50		506,750	50	0	739	0	0	1,189.35	0.00	0.00	0.00	0.00	3990	8475	0	4,365	2,686	-8850
5068+00		506,800	50	0	792	0	0	1,417.15	0.00	0.00	0.00	0.00	5407	8475	0	4,365	2,686	-7432
5068+50		506,850	50	0	647	0	0	1,331.94	0.00	0.00	0.00	0.00	6739	8475	0	4,365	2,686	-6100
5069+00		506,900	50	0	447	0	0	1,012.66	0.00	0.00	0.00	0.00	7752	8475	0	4,365	2,686	-5088
5069+50		506,950	50	0	385	0	0	770.40	0.00	0.00	0.00	0.00	8522	8475	0	4,365	2,686	-4317
5070+00		507,000	50	0	358	0	0	688.54	0.00	0.00	0.00	0.00	9210	8475	0	4,365	2,686	-3629
5070+50		507,050	50	0	547	0	0	838.43	0.00	0.00	0.00	0.00	10049	8475	0	4,365	2,686	-2790
5071+00		507,100	50	0	709	0	0	1,162.83	0.00	0.00	0.00	0.00	11212	8475	0	4,365	2,686	-1628
5071+50		507,150	50	0	406	0	0	1,032.47	0.00	0.00	0.00	0.00	12244	8475	0	4,365	2,686	-595
5072+00		507,200	50	0	173	0	0	535.94	0.00	0.00	0.00	0.00	12780	8475	0	4,365	2,686	-59
5072+50		507,250	50	0	40	0	69	196.36	0.00	64.28	0.00	0.00	12976	8555	0	4,365	2,686	57
5073+00		507,300	50	0	23	0	183	57.75	0.00	233.33	0.00	0.00	13034	8847	0	4,365	2,686	-177
5073+50		507,350	50	0	71	0	177	86.94	0.00	333.09	0.00	0.00	13121	9263	0	4,365	2,686	-506
5074+00		507,400	50	0	358	0	108	397.12	0.00	263.63	0.00	0.00	13518	9593	0	4,365	2,686	-439
5074+50		507,450	50	0	373	0	67	676.22	0.00	161.81	0.00	0.00	14194	9795	0	4,365	2,686	35
5075+00		507,500	50	0	344	0	43	663.79	0.00	101.98	0.00	0.00	14858	9922	0	4,365	2,686	
5075+50	BK	507,550	50	20	337	0	49	630.60	0.00	84.70	18.66	0.00	15489	10010	0	4,389	2,686	
TOTALS								15,488.88	0.00	10,708.45	3,376.06	0.00						

REPLACED WITH
REVISED SHEET 291
5-16-2013

9 9

PROJECT NO: 1030-11-70 | HWY: IH 94/CTH K | COUNTY: RACINE | EARTHWORK | ~~REVISED SHEET 291~~ | E

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EAST FRONTAGE ROAD DETAILS

STATION		Real Station	Distance	AREA (SF) EBS	AREA (SF) Cut	AREA (SF) Salvaged/Unusable Pavement Material	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Salvaged/Unusable Pavement Material Note 2	Incremental Vol (CY) (Unadjusted) Fill Note 3	Incremental Vol (CY) (Unadjusted) EBS	Incremental Vol (CY) (Unadjusted) Available Area Outside the 1:1 for Marsh Disposal Note 4	Cumulative Vol (CY) Cut Note 1	Cumulative Vol (CY) Expanded Fill 1.25	Cumulative Vol (CY) Salvaged Unuseable Pavement Material	Cumulative Vol (CY) Expanded EBS Backfill 1.30 Note 4	Cumulative Vol (CY) Reduced EBS In Fill 0.80 Note 5	Mas
5053+00	AH	505,300	0	0	173	0	3	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0
5053+50		505,350	50	0	141	0	7	291.39	0.00	8.68	0.00	0.00	291	11	0	0	0	281
5054+00		505,400	50	437	79	0	29	203.82	0.00	32.98	404.63	0.00	495	-353	0	526	324	322
5054+50		505,450	50	730	38	0	60	107.87	0.00	82.64	1,080.56	0.00	603	-1330	0	1,931	1,188	2
5055+00		505,500	50	646	54	0	44	85.19	0.00	96.32	1,274.07	0.00	688	-2483	0	3,587	2,207	-415
5055+50		505,550	50	0	106	0	7	148.33	0.00	47.25	598.15	0.00	837	-3023	0	4,365	2,686	-505
5056+00		505,600	50	0	29	0	81	125.21	0.00	81.67	0.00	0.00	962	-2920	0	4,365	2,686	-482
5056+50		505,650	50	0	20	0	180	45.20	0.00	241.86	0.00	0.00	1007	-2618	0	4,365	2,686	-739
5057+00		505,700	50	0	17	0	314	34.14	0.00	457.60	0.00	0.00	1041	-2046	0	4,365	2,686	-1277
5057+50		505,750	50	0	10	0	326	25.53	0.00	592.59	0.00	0.00	1067	-1305	0	4,365	2,686	-1993
5058+00		505,800	50	0	77	0	224	81.06	0.00	509.26	0.00	0.00	1148	-669	0	4,365	2,686	-2548
5058+50		505,850	50	0	131	0	205	193.04	0.00	397.22	0.00	0.00	1341	-172	0	4,365	2,686	-2852
5059+00		505,900	50	0	26	0	290	145.81	0.00	458.33	0.00	0.00	1487	401	0	4,365	2,686	-3279
5059+50		505,950	50	0	23	0	256	45.67	0.00	505.56	0.00	0.00	1532	1033	0	4,365	2,686	-3865
5060+00		506,000	50	0	13	0	245	33.07	0.00	463.89	0.00	0.00	1565	1612	0	4,365	2,686	-4412
5060+50		506,050	50	0	37	0	203	45.94	0.00	414.81	0.00	0.00	1611	2131	0	4,365	2,686	-4884
5061+00		506,100	50	0	0	0	217	34.23	0.00	388.89	0.00	0.00	1646	2617	0	4,365	2,686	-5336
5061+50		506,150	50	0	15	0	201	14.16	0.00	387.04	0.00	0.00	1660	3101	0	4,365	2,686	-5806
5062+00		506,200	50	0	13	0	241	25.84	0.00	409.26	0.00	0.00	1686	3612	0	4,365	2,686	-6292
5062+50		506,250	50	0	24	0	268	33.81	0.00	471.33	0.00	0.00	1719	4202	0	4,365	2,686	-6847
5063+00		506,300	50	0	23	0	274	43.13	0.00	501.62	0.00	0.00	1762	4829	0	4,365	2,686	-7431
5063+50		506,350	50	0	13	0	210	33.33	0.00	447.70	0.00	0.00	1796	5388	0	4,365	2,686	-7957
5064+00		506,400	50	0	15	0	143	26.13	0.00	326.57	0.00	0.00	1822	5796	0	4,365	2,686	-8339
5064+50		506,450	50	0	11	0	192	23.98	0.00	310.32	0.00	0.00	1846	6184	0	4,365	2,686	-8703
5065+00		506,500	50	0	4	0	239	14.03	0.00	398.97	0.00	0.00	1860	6683	0	4,365	2,686	-9188
5065+50		506,550	50	0	4	0	165	7.12	0.00	373.75	0.00	0.00	1867	7150	0	4,365	2,686	-9648
5066+00		506,600	50	0	23	0	41	24.37	0.00	190.52	0.00	0.00	1891	7388	0	4,365	2,686	-9862
5066+50		506,650	50	0	207	0	0	212.43	0.00	37.72	0.00	0.00	2104	7436	0	4,365	2,686	-9696
5067+00		506,700	50	0	546	0	0	696.56	0.00	0.00	0.00	0.00	2800	7436	0	4,365	2,686	-9000
5067+50		506,750	50	0	739	0	0	1,189.35	0.00	0.00	0.00	0.00	3990	7436	0	4,365	2,686	-7810
5068+00		506,800	50	0	792	0	0	1,417.15	0.00	0.00	0.00	0.00	5407	7436	0	4,365	2,686	-6393
5068+50		506,850	50	0	647	0	0	1,331.94	0.00	0.00	0.00	0.00	6739	7436	0	4,365	2,686	-5061
5069+00		506,900	50	0	447	0	0	1,012.66	0.00	0.00	0.00	0.00	7752	7436	0	4,365	2,686	-4049
5069+50		506,950	50	0	385	0	0	770.40	0.00	0.00	0.00	0.00	8522	7436	0	4,365	2,686	-3278
5070+00		507,000	50	0	358	0	0	688.54	0.00	0.00	0.00	0.00	9210	7436	0	4,365	2,686	-2590
5070+50		507,050	50	0	547	0	0	838.43	0.00	0.00	0.00	0.00	10049	7436	0	4,365	2,686	-1751
5071+00		507,100	50	0	709	0	0	1,162.83	0.00	0.00	0.00	0.00	11212	7436	0	4,365	2,686	-588
5071+50		507,150	50	0	406	0	0	1,032.47	0.00	0.00	0.00	0.00	12244	7436	0	4,365	2,686	444
5072+00		507,200	50	0	173	0	0	535.94	0.00	0.00	0.00	0.00	12780	7436	0	4,365	2,686	980
5072+50		507,250	50	0	40	0	69	196.36	0.00	64.28	0.00	0.00	12976	7516	0	4,365	2,686	1096
5073+00		507,300	50	0	23	0	183	57.75	0.00	233.33	0.00	0.00	13034	7808	0	4,365	2,686	862
5073+50		507,350	50	0	71	0	177	86.94	0.00	333.09	0.00	0.00	13121	8224	0	4,365	2,686	533
5074+00		507,400	50	0	358	0	108	397.12	0.00	263.63	0.00	0.00	13518	8553	0	4,365	2,686	600
5074+50		507,450	50	0	373	0	67	676.22	0.00	161.81	0.00	0.00	14194	8756	0	4,365	2,686	1074
5075+00		507,500	50	0	344	0	43	663.79	0.00	101.98	0.00	0.00	14858	8883	0	4,365	2,686	1610
5075+50	BK	507,550	50	20	337	0	49	630.60	0.00	84.70	18.66	0.00	15489	8970	0	4,389	2,701	2130
TOTALS								15,488.88	0.00	9,877.19	3,376.06	0.00						

EAST FRONTAGE ROAD DETAILS

STATION		Real Station	Distance	AREA (SF)				Incremental Vol (CY) (Unadjusted)					Cumulative Vol (CY)					Mass Ordinate CY
				EBS	Cut	Salvaged / Unusable Pavement Material	Fill	Cut Note 1	Salvaged / Unusable Pavement Material Note 2	Fill Note 3	EBS	Available Area Outside the 1:1 for Marsh Disposal Note 4	Cut Note 1	Expanded Fill 1.25	Salvaged Unuseable Pavement Material	Expanded EBS Backfill 1.30 Note 4	Reduced EBS In Fill 0.80 Note 5	
5075+50	AH	507,550	0	20	337	0	49	0.00	0.00	0.00	18.66	0.00	0	-19	0	24	15	-6
5076+00		507,600	50	33	185	0	45	482.75	0.00	86.69	48.93	0.00	483	41	0	88	54	354
5076+50		507,650	50	40	82	0	23	247.09	0.00	63.41	67.68	0.00	730	52	0	176	108	502
5077+00		507,700	50	23	61	0	16	132.69	0.00	36.66	58.56	0.00	863	40	0	252	155	571
5077+50		507,750	50	0	166	15	13	210.31	13.61	26.57	21.16	0.00	1073	52	14	279	172	728
5078+00		507,800	50	0	61	15	24	210.04	27.22	33.34	0.00	0.00	1283	93	41	279	172	869
5078+50		507,850	50	0	77	15	3	127.81	27.22	24.28	0.00	0.00	1411	124	68	279	172	939
5079+00		507,900	50	0	106	15	0	169.69	27.22	2.51	0.00	0.00	1580	127	95	279	172	1079
5079+50	BK	507,950	50	0	124	15	0	212.95	27.22	0.00	0.00	0.00	1793	127	123	279	172	1265
TOTALS								1,793.34	122.50	273.45	214.98	0.00						

1) Cut Volume includes Salvaged/Unusable Pavement Material volume above the bottom of the subbase
2) Salvaged/Unusable Pavement Material does not show up in cross sections
3) Does not include Salvaged/Unusable Pavement Excavation volume
4) Will be backfilled with Borrow or Exacavation Common
5) Reduced EBS Excavation that can be used in Fill outside of the 1:1 slopes

SE RAMP DETAILS

STATION	Real Station	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)			Mass Ordinate CY
			Cut	Salvaged / Unusable Pavement Material	Fill	Cut Note 1	Salvaged / Unusable Pavement Material Note 2	Fill Note 3	Cut Note 1	Expanded Fill 1.25	Salvaged / Unusable Pavement Material	
1038+48 AH	103,848		17	0	0	0.00	0.00	0.00	0	0	0	0
1038+50	103,850	2	17	0	0	1.10	0.00	0.00	1	0	0	1
1039+00	103,900	50	17	0	0	30.94	0.00	0.00	32	0	0	32
1039+50	103,950	50	21	0	0	34.95	0.00	0.00	67	0	0	67
1040+00	104,000	50	19	0	6	36.95	0.00	5.76	104	7	0	97
1040+50	104,050	50	17	0	22	33.01	0.00	26.06	137	40	0	97
1041+00	104,100	50	79	8	34	88.43	7.41	51.67	225	104	7	114
1041+50	104,150	50	207	8	37	264.33	14.81	65.58	490	186	22	281
1042+00	104,200	50	182	8	54	359.64	14.81	84.25	849	292	37	521
1042+50	104,250	50	244	8	61	394.14	14.81	106.39	1243	425	52	767
1043+00	104,300	50	255	8	64	462.09	14.81	115.54	1706	569	67	1070
1043+50	104,350	50	272	8	54	488.28	14.81	108.73	2194	705	81	1407
1044+00	104,400	50	172	8	62	411.12	14.81	106.68	2605	838	96	1670
1044+50	104,450	50	150	8	56	297.81	14.81	109.23	2903	975	111	1817
1045+00	104,500	50	139	16	60	267.06	22.50	107.90	3170	1110	134	1927
1045+50	104,550	50	98	16	70	218.89	30.19	120.44	3389	1260	164	1965
1046+00	104,600	50	89	16	60	172.72	30.19	120.12	3561	1410	194	1957
1046+50	104,650	50	78	16	56	154.09	30.19	107.58	3716	1545	224	1946
1047+00	104,700	50	58	16	53	125.74	30.19	101.19	3841	1671	254	1916
1047+50	104,750	50	52	16	39	101.67	30.19	84.75	3943	1777	285	1881
1048+00	104,800	50	2,011	16	22	1,909.52	29.91	55.70	5852	1847	314	3691
1048+50	104,850	50	48	8	11	1,905.84	22.22	30.31	7758	1885	337	5537
1049+00 BK	104,900	50	75	8	3	113.30	14.81	13.09	7872	1901	351	5619
TOTALS						7,872	351	1,521				

1) Cut Volume includes Salvaged/Unusable Pavement Material volume above the bottom of the subbase
2) Salvaged/Unusable Pavement Material does not show up in cross sections
3) Does not include Salvaged/Unusable Pavement Excavation volume

CTH K DETAILS

STATION	Real Station	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate CY
			Cut	Fill	Cut	Fill	Cut	Expanded Fill 1.25	
47+50 AH	4,750		25	0	0.00	0.00	0	0	0
48+00	4,800	50	12	0	33.45	0.00	33	0	33
48+50	4,850	50	11	4	20.93	3.26	54	4	50
49+00	4,900	50	26	0	34.77	3.37	89	8	81
49+50	4,950	50	73	0	92.18	0.11	181	8	173
50+00	5,000	50	80	0	141.65	0.00	323	8	315
50+50	5,050	50	132	0	196.34	0.00	519	8	511
51+00	5,100	50	181	0	289.71	0.00	809	8	801
51+50	5,150	50	211	25	362.87	23.06	1172	37	1135
52+00	5,200	50	178	26	360.17	47.28	1532	96	1436
52+50	5,250	50	257	3	402.19	27.19	1934	130	1804
53+00	5,300	50	166	2	391.22	4.73	2325	136	2189
53+50	5,350	50	118	1	262.48	2.77	2588	140	2448
54+00	5,400	50	27	0	133.42	1.05	2721	141	2580
54+50	5,450	50	20	3	43.03	3.15	2764	145	2619
55+00	5,500	50	18	7	35.23	10.00	2800	157	2642
55+50	5,550	50	15	10	30.85	16.14	2830	178	2653
56+00	5,600	50	16	7	28.53	15.56	2859	197	2662
56+50	5,650	50	16	0	29.46	6.56	2888	205	2683
57+00 BK	5,700	50	17	0	30.74	0.25	2919	206	2714
TOTALS					2,919	164			

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PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	EARTHWORK	SHEET NO: 294	E

MICHEL COURT DETAILS

STATION	Real Station	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate CY
			Cut	Fill	Cut	Fill	Cut	Expanded Fill 1.25	
10+50 AH	1,050	0	264	0	0.00	0.00	0	0	0.00
11+00	1,100	50	195	0	424.99	0.00	425	0	425
11+50	1,150	50	113	0	285.06	0.00	710	0	710
12+00	1,200	50	43	0	144.35	0.00	854	0	854
12+50	1,250	50	28	3	65.33	3.19	920	4	916
13+00	1,300	50	4	25	29.76	26.28	949	37	913
13+50	1,350	50	3	37	6.93	56.91	956	108	848
14+00	1,400	50	1	42	3.94	72.74	960	199	761
14+50	1,450	50	3	29	3.98	66.03	964	281	683
15+00	1,500	50	9	16	10.81	41.81	975	334	641
15+50	1,550	50	10	7	17.65	21.04	993	360	633
16+00	1,600	50	27	3	34.25	8.99	1027	371	656
16+50	1,650	50	12	22	35.40	23.08	1062	400	662
17+00	1,700	50	15	14	25.04	33.78	1087	442	645
17+50 BK	1,750	50	38	0	49.29	13.34	1137	459	678
TOTALS					1,136.77	367.19			

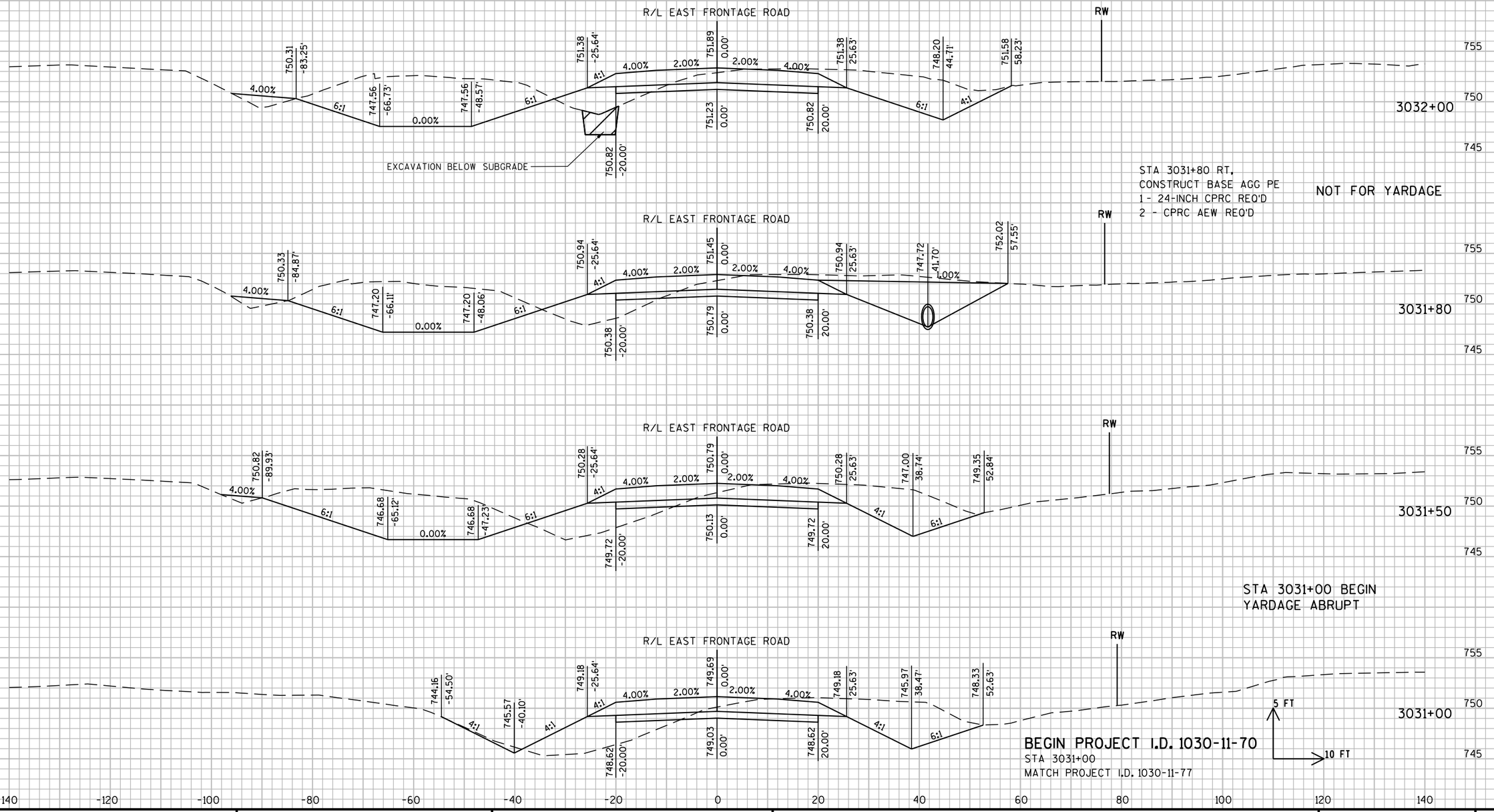
SWALE DETAILS

STATION	Real Station	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate CY
			Cut	Fill	Cut	Fill	Cut	Expanded Fill 1.25	
0+50 AH	50		9	0	0.00	0.00	0	0	0
1+00	100	50	6	0	14.13	0.00	14	0	14
1+50	150	50	10	0	15.26	0.00	29	0	29
2+00	200	50	30	0	37.65	0.00	67	0	67
2+50	250	50	52	0	76.47	0.00	144	0	144
3+00	300	50	10	0	57.39	0.00	201	0	201
3+50	350	50	6	0	14.28	0.00	215	0	215
4+00	400	50	17	0	20.59	0.00	236	0	236
TOTALS					236	0			

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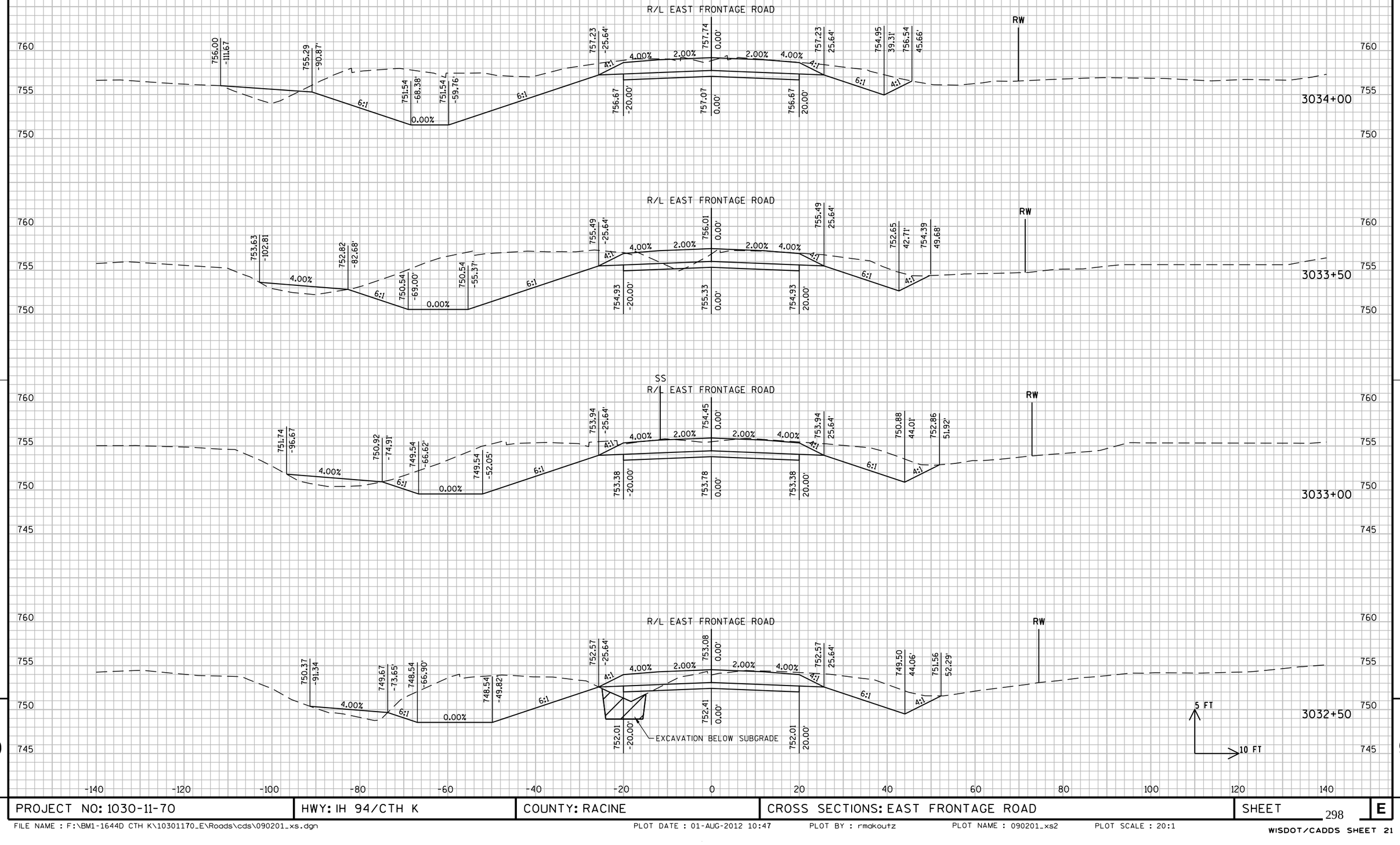
PROJECT NO: 1030-11-70 | HWY: IH 94/CTH K | COUNTY: RACINE | EARTHWORK | SHEET NO: 296 | E



PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET	E

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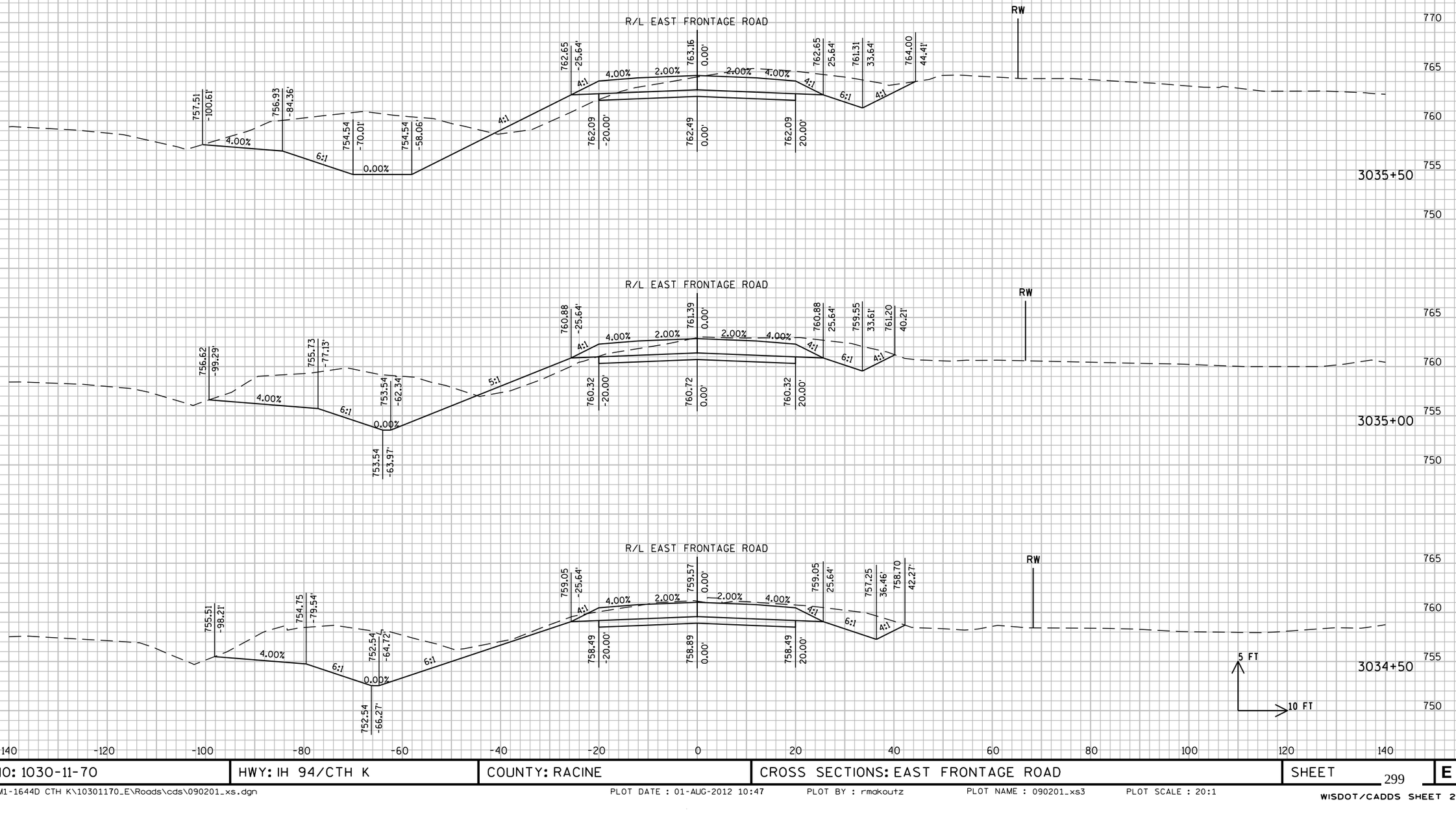
WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 298 E

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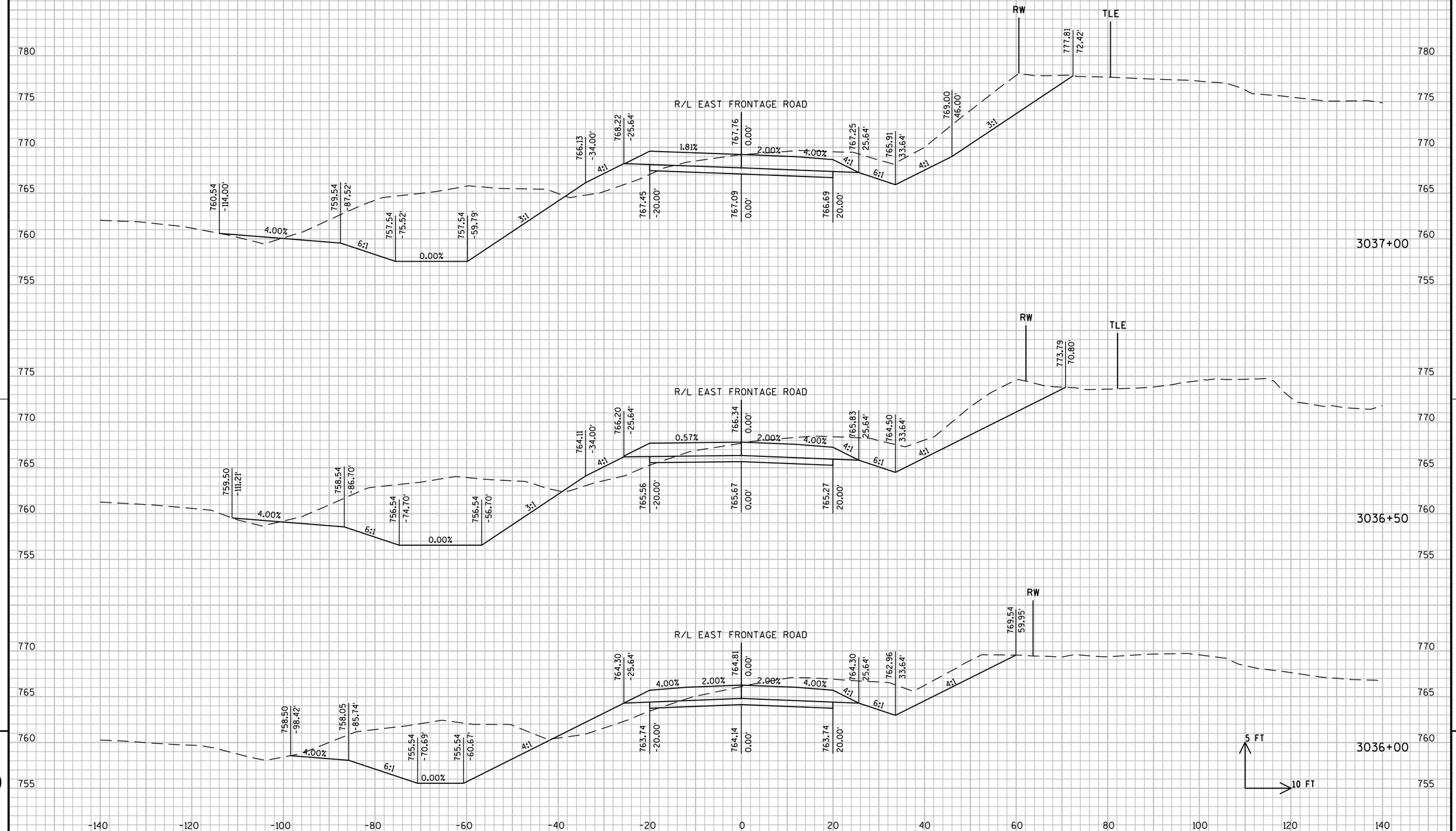
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PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 299 E

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WISDOT/CADDS SHEET 21



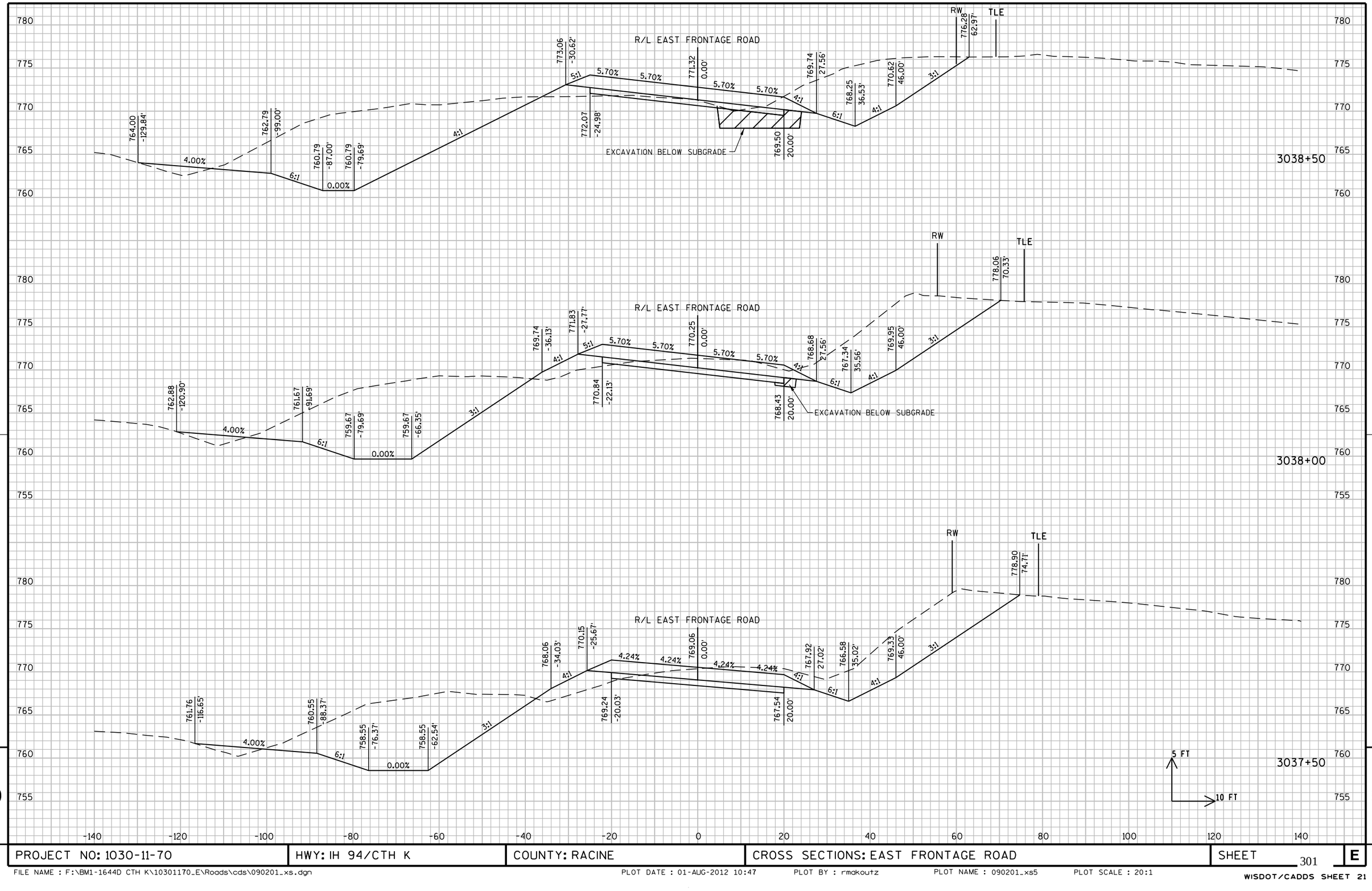
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PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 300	E

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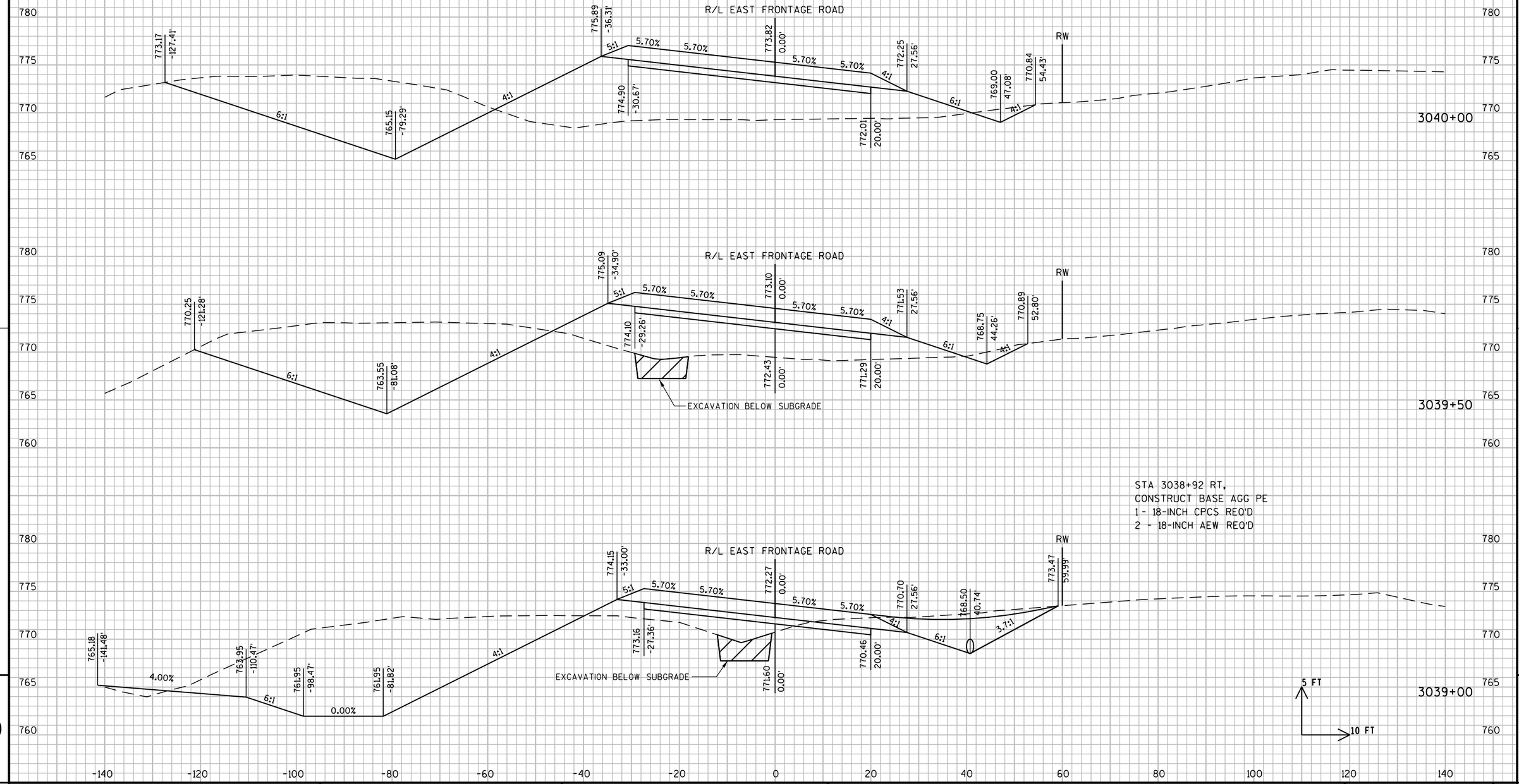
WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 301	E

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WISDOT/CADDS SHEET 21



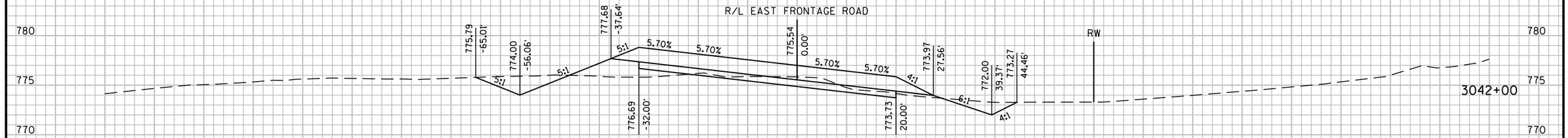
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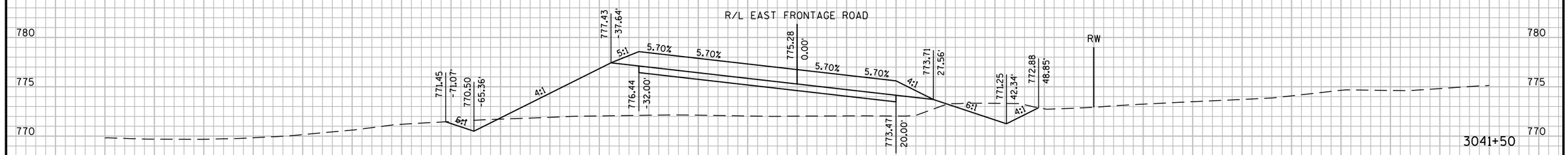
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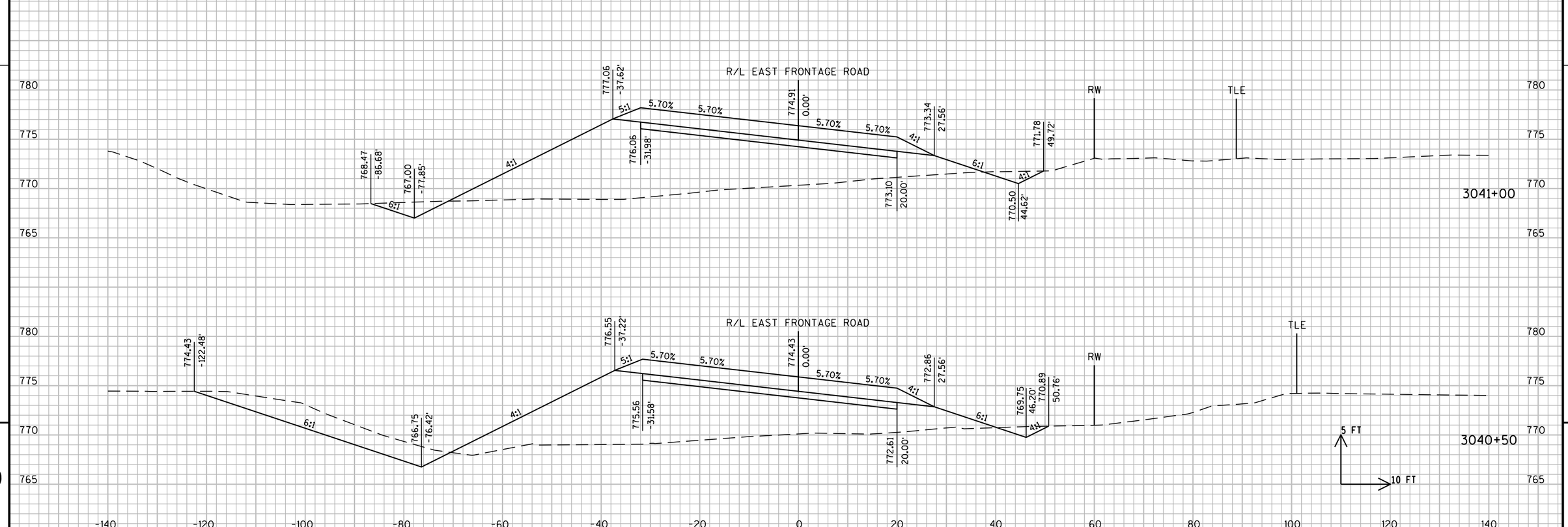
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WISDOT/CADDS SHEET 21

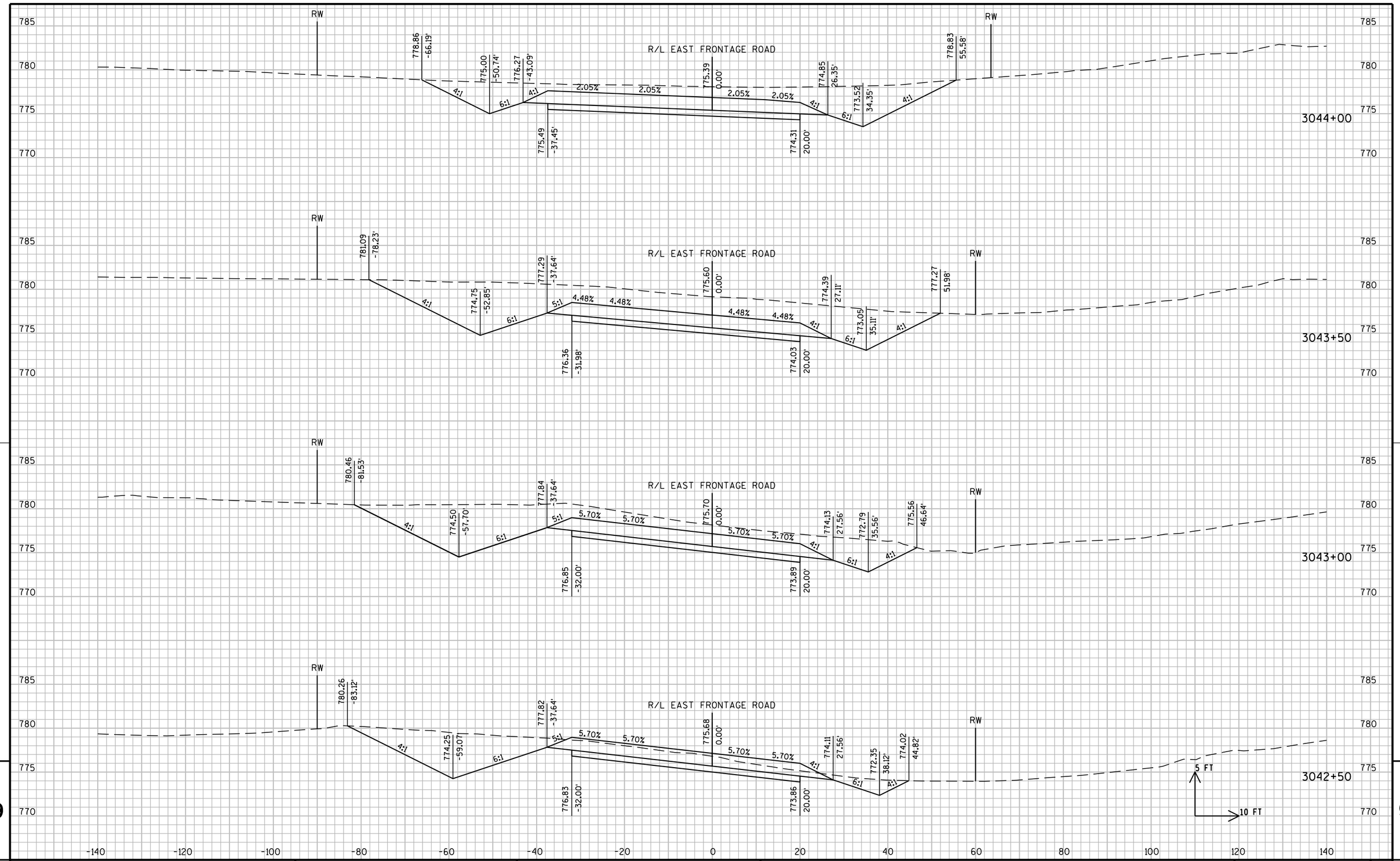






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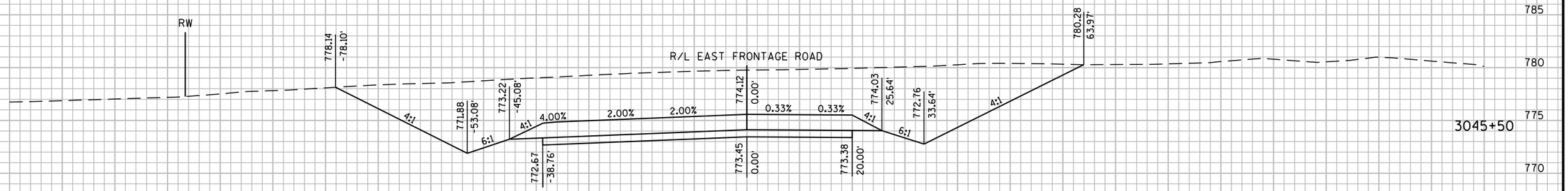
PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 303	E

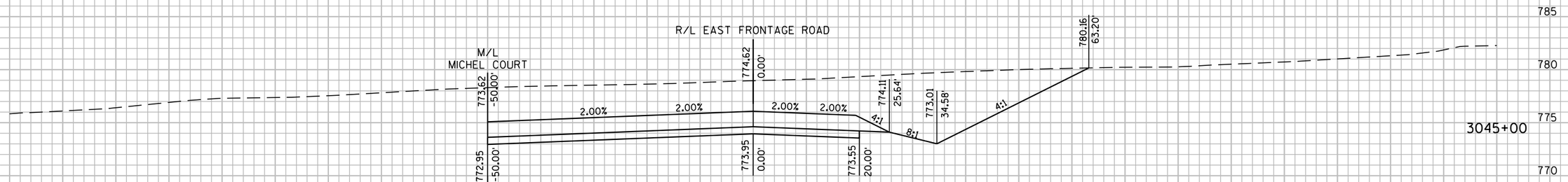


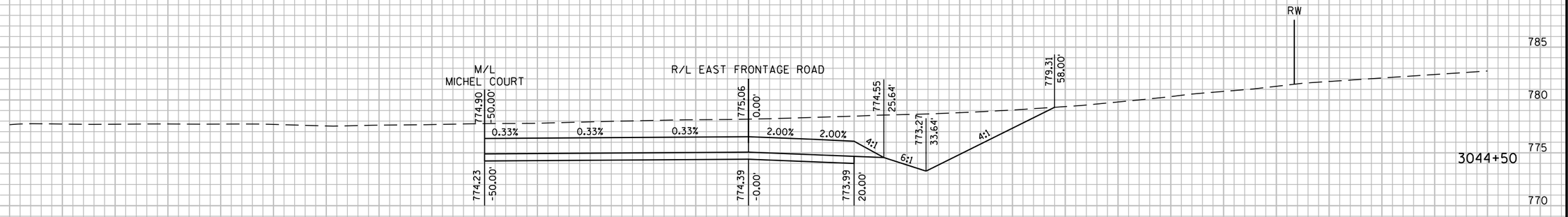
PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 304 E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\090201_xs.dgn PLOT DATE : 01-AUG-2012 10:47 PLOT BY : rmakoutz PLOT NAME : 090201_xs8 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21







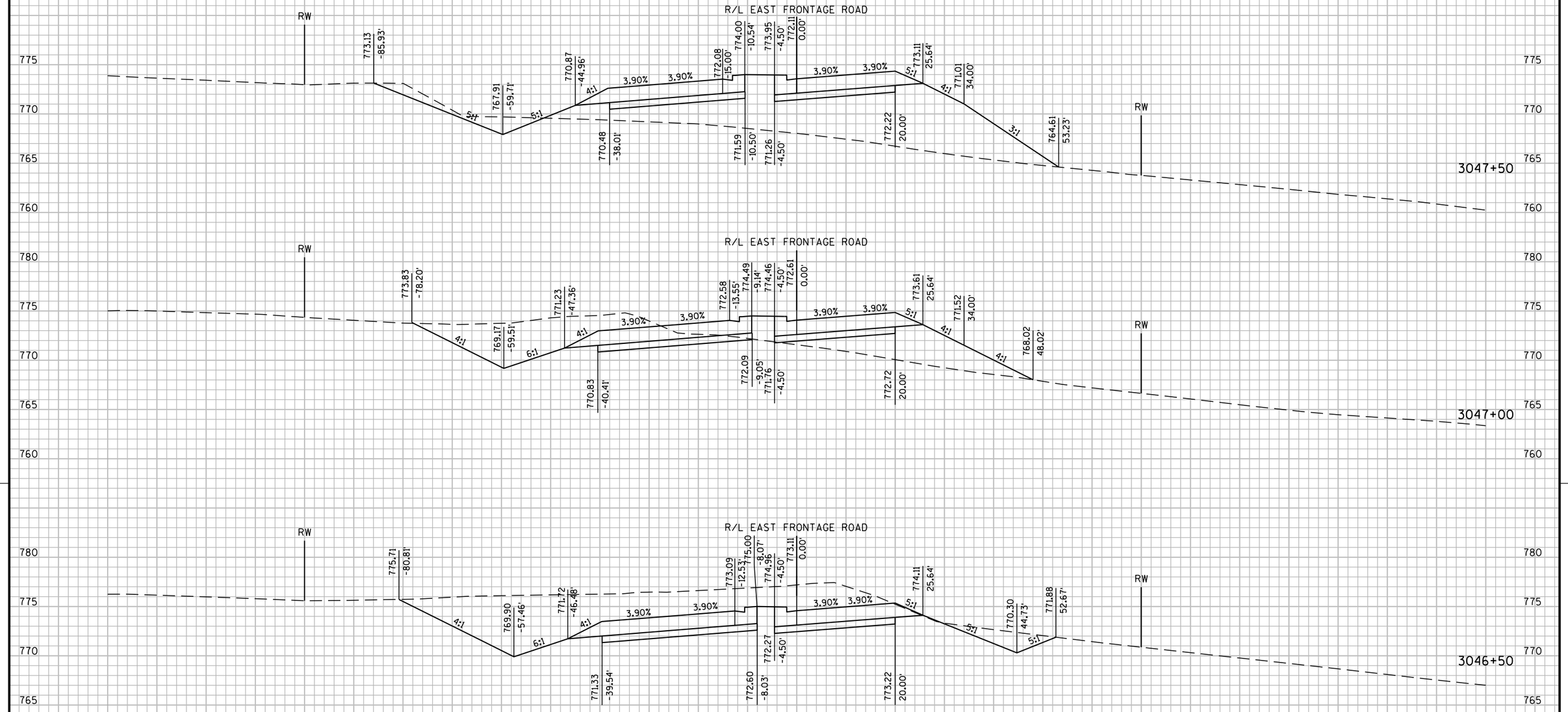
-140 -120 -100 -80 -60 -40 -20 0 20 40 60 80 100 120 140

9 9

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 305 E

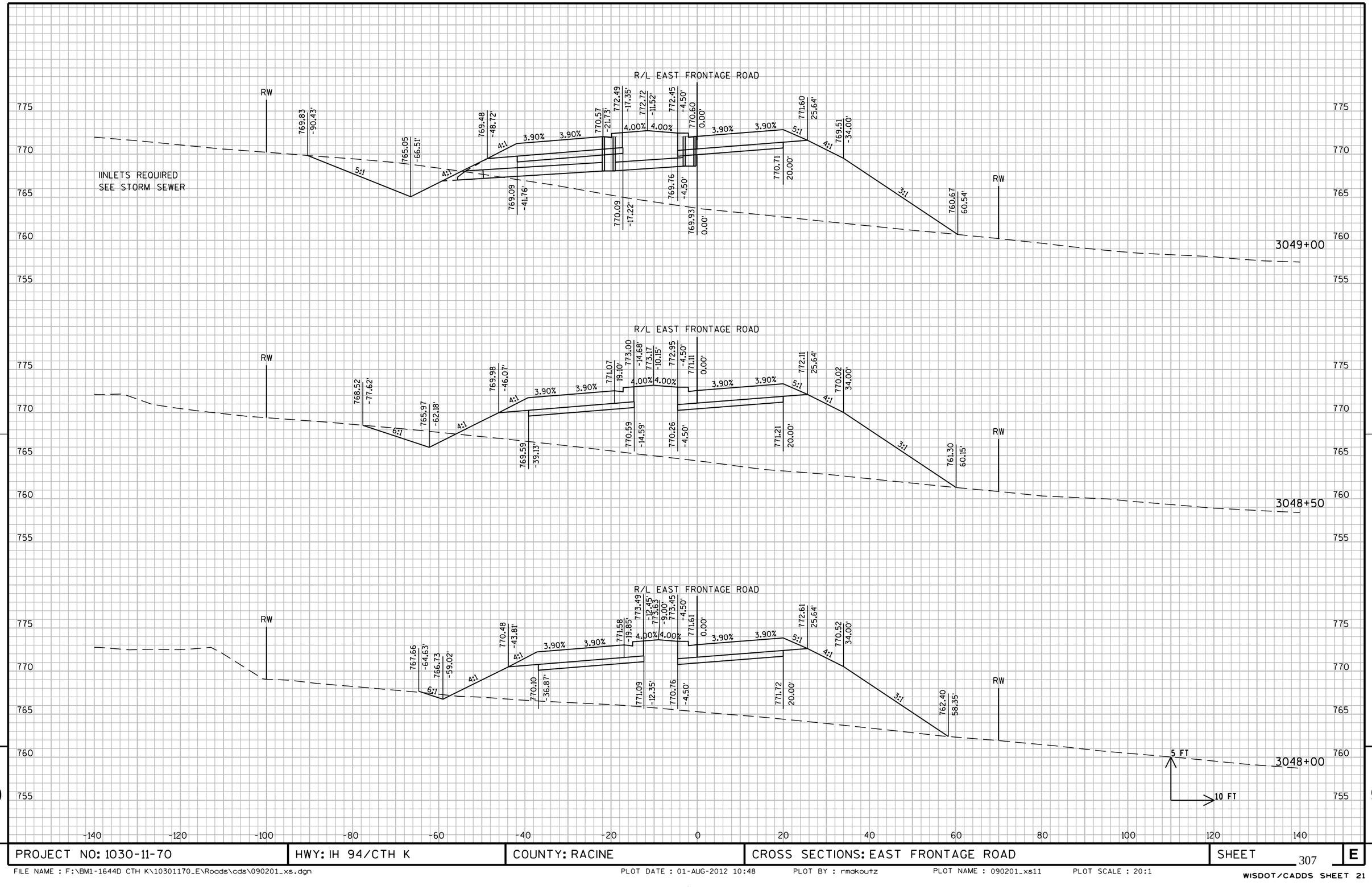
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WISDOT/CADDS SHEET 21

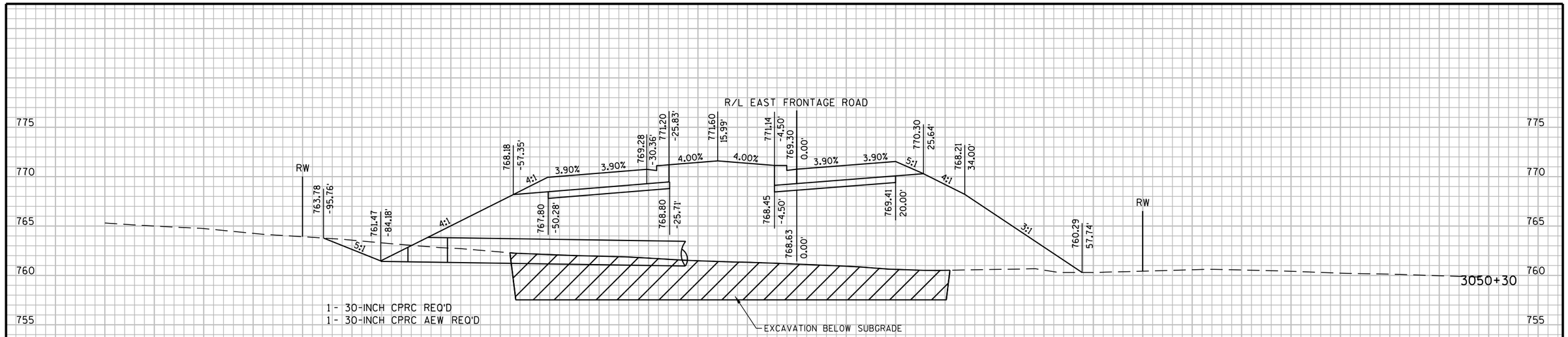


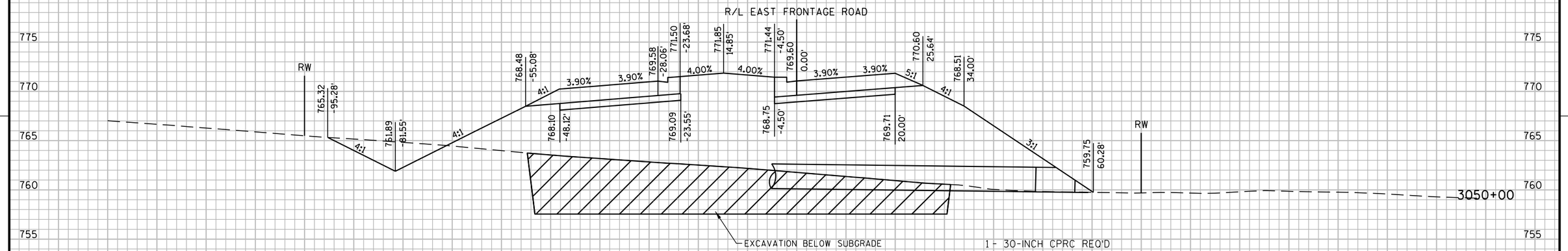
PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET E

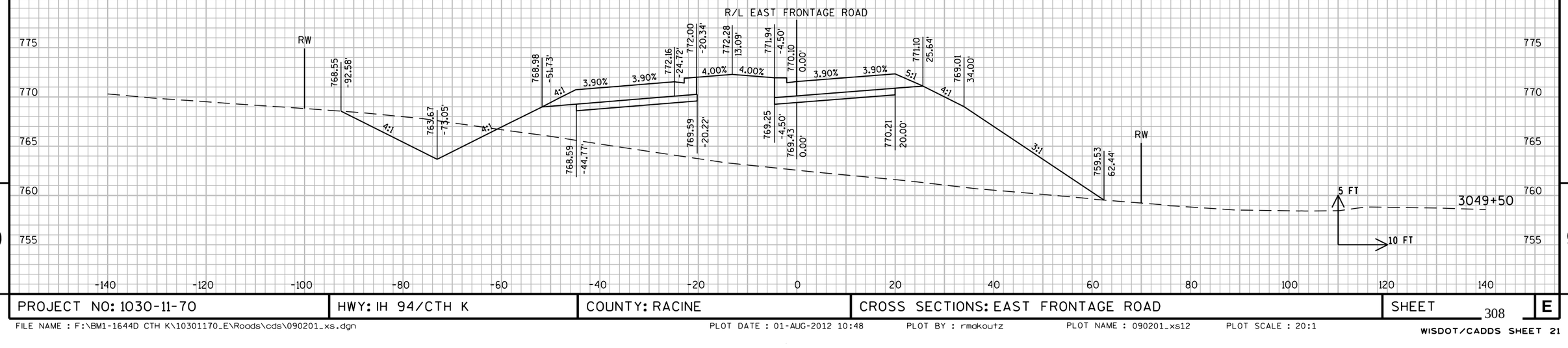
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WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 307 E



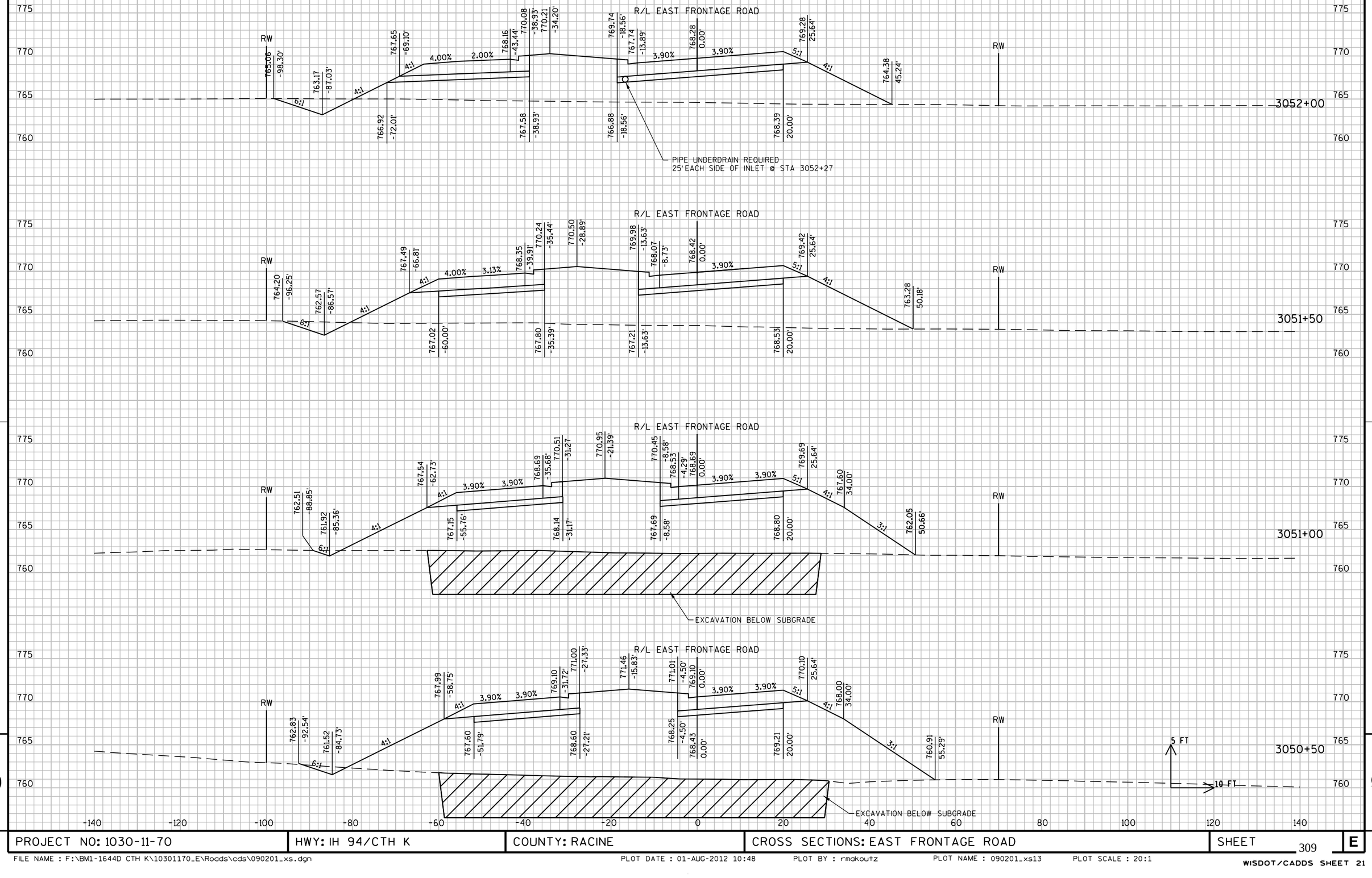




PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 308	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\090201_xs.dgn PLOT DATE : 01-AUG-2012 10:48 PLOT BY : rmakoutz PLOT NAME : 090201_xs12 PLOT SCALE : 20:1

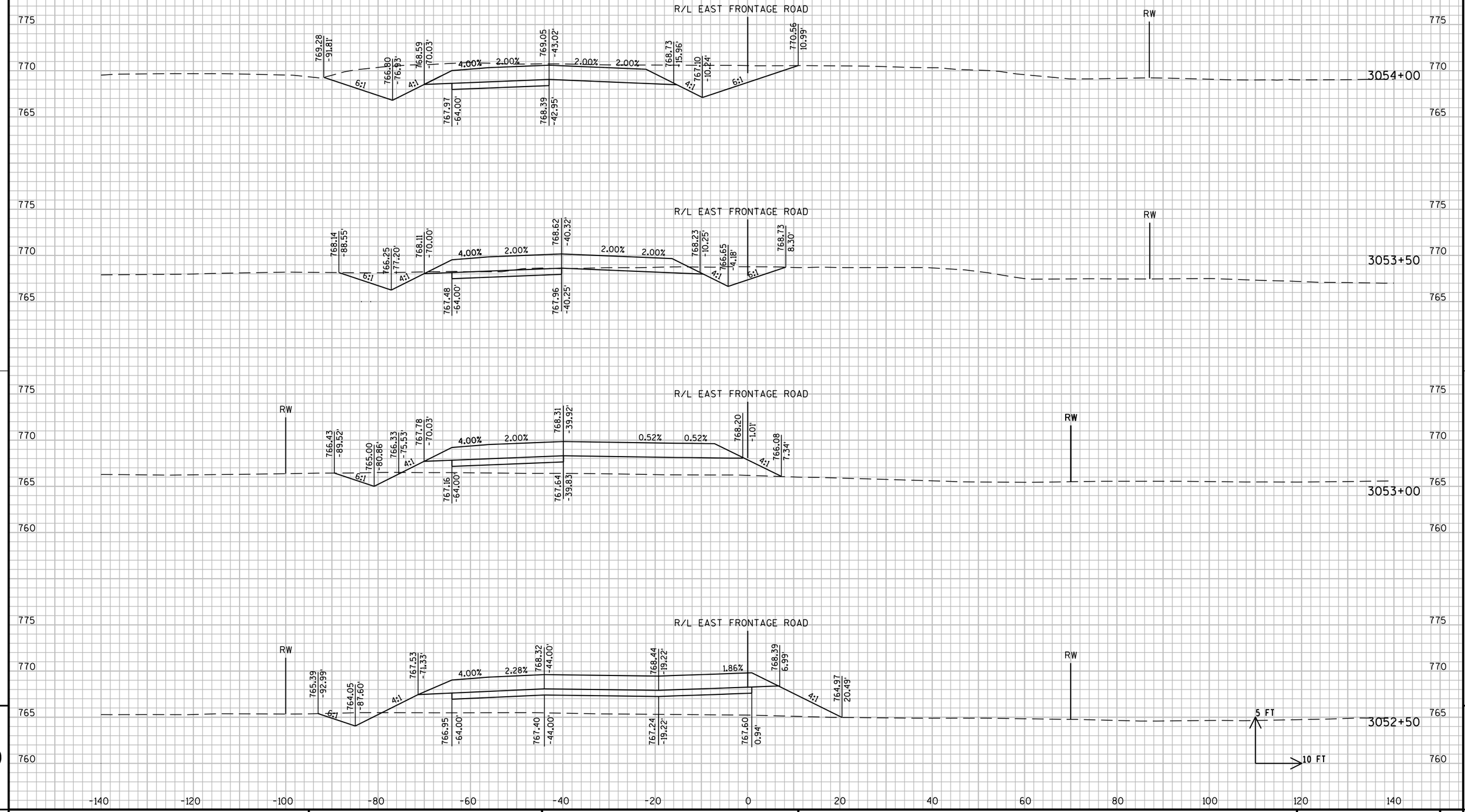
WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 309	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\090201_xs.dgn PLOT DATE : 01-AUG-2012 10:48 PLOT BY : rmakoutz PLOT NAME : 090201_xs13 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

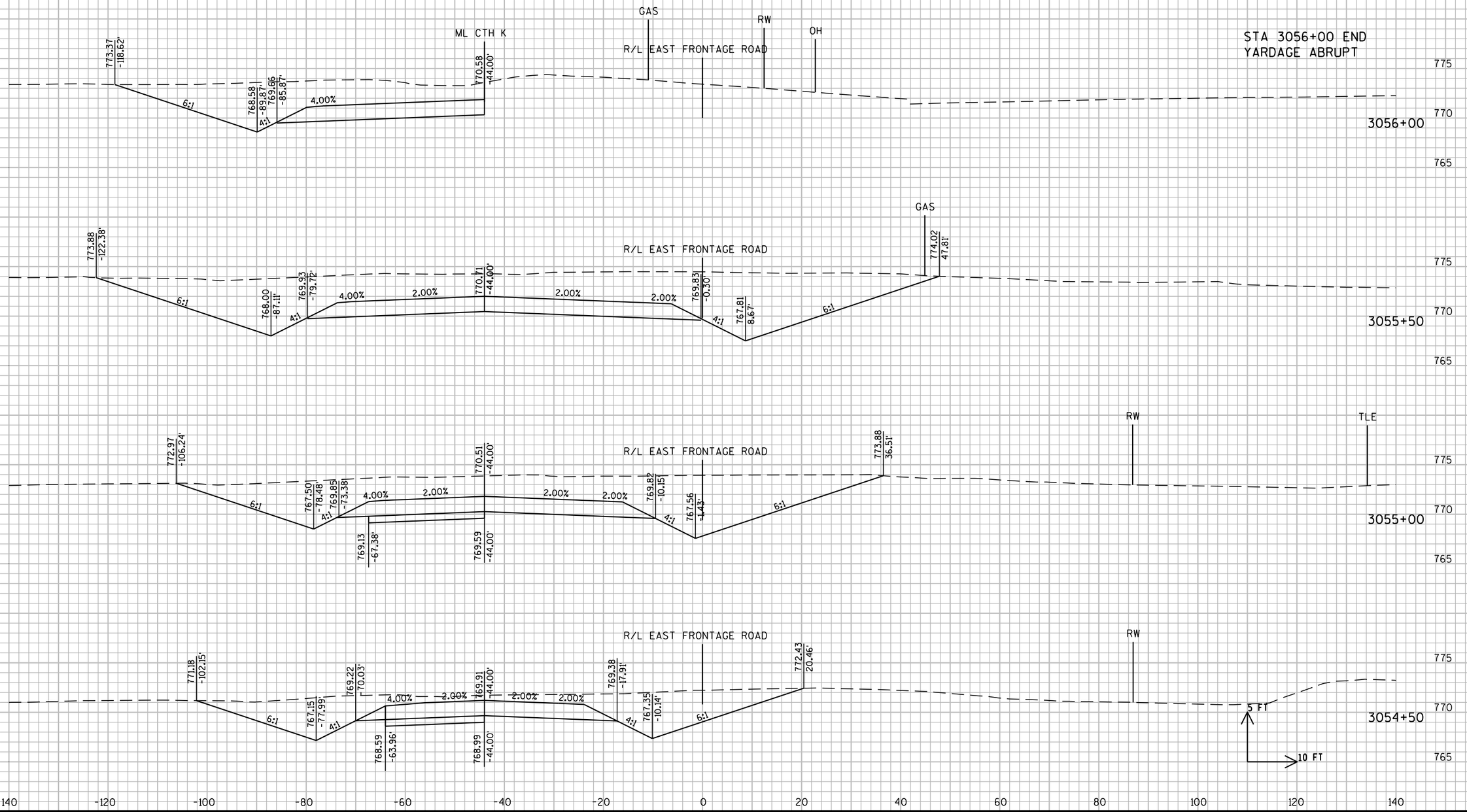


PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 310	E

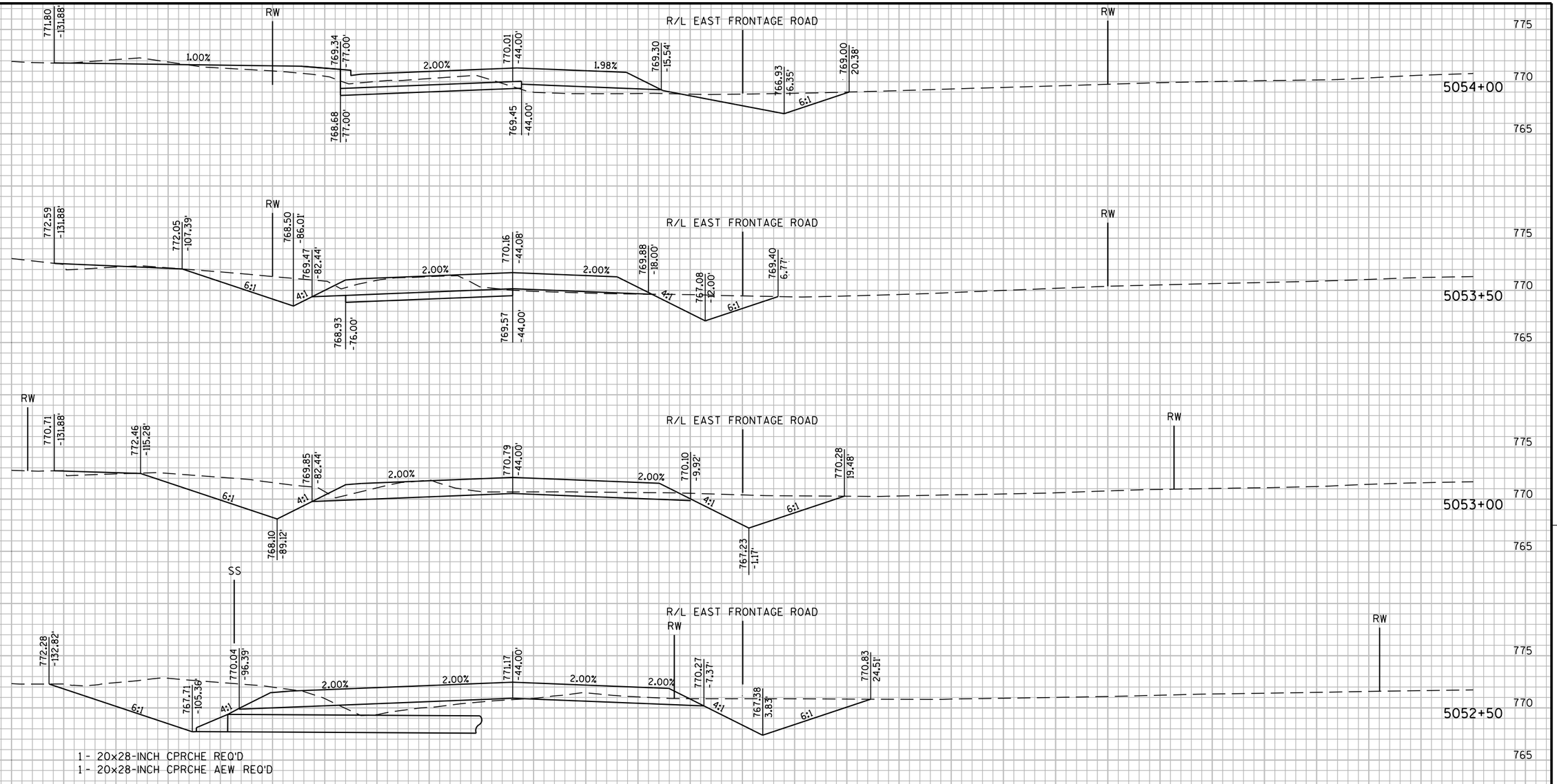
FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\090201_xs.dgn PLOT DATE : 01-AUG-2012 10:48 PLOT BY : rmakoutz PLOT NAME : 090201_xs14 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

END CONSTRUCTION
STA 3056+18.38



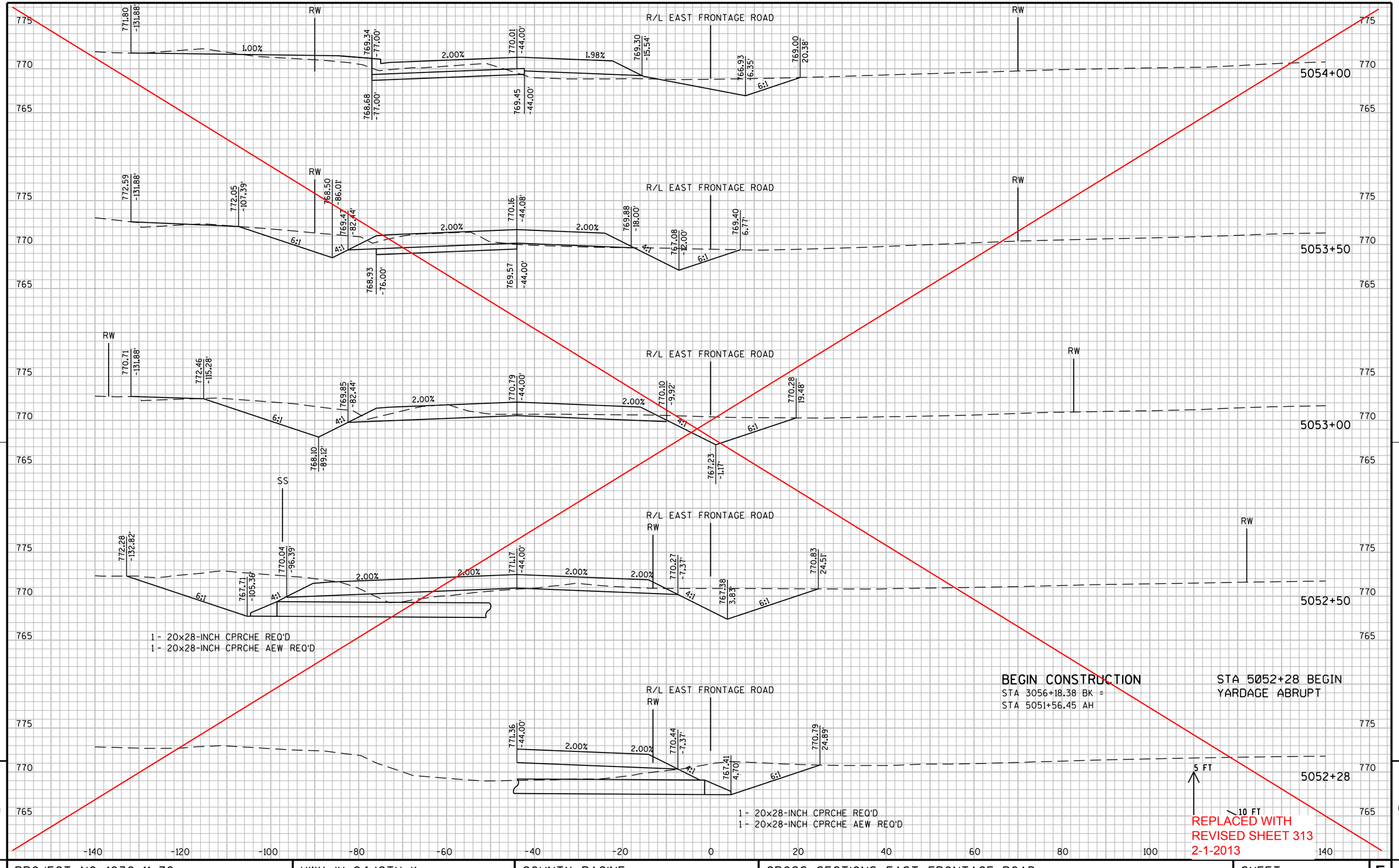
PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 311	E



PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 312 E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\090201_xs.dgn PLOT DATE : 01-AUG-2012 10:48 PLOT BY : rmakoutz PLOT NAME : 090201_xs45 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

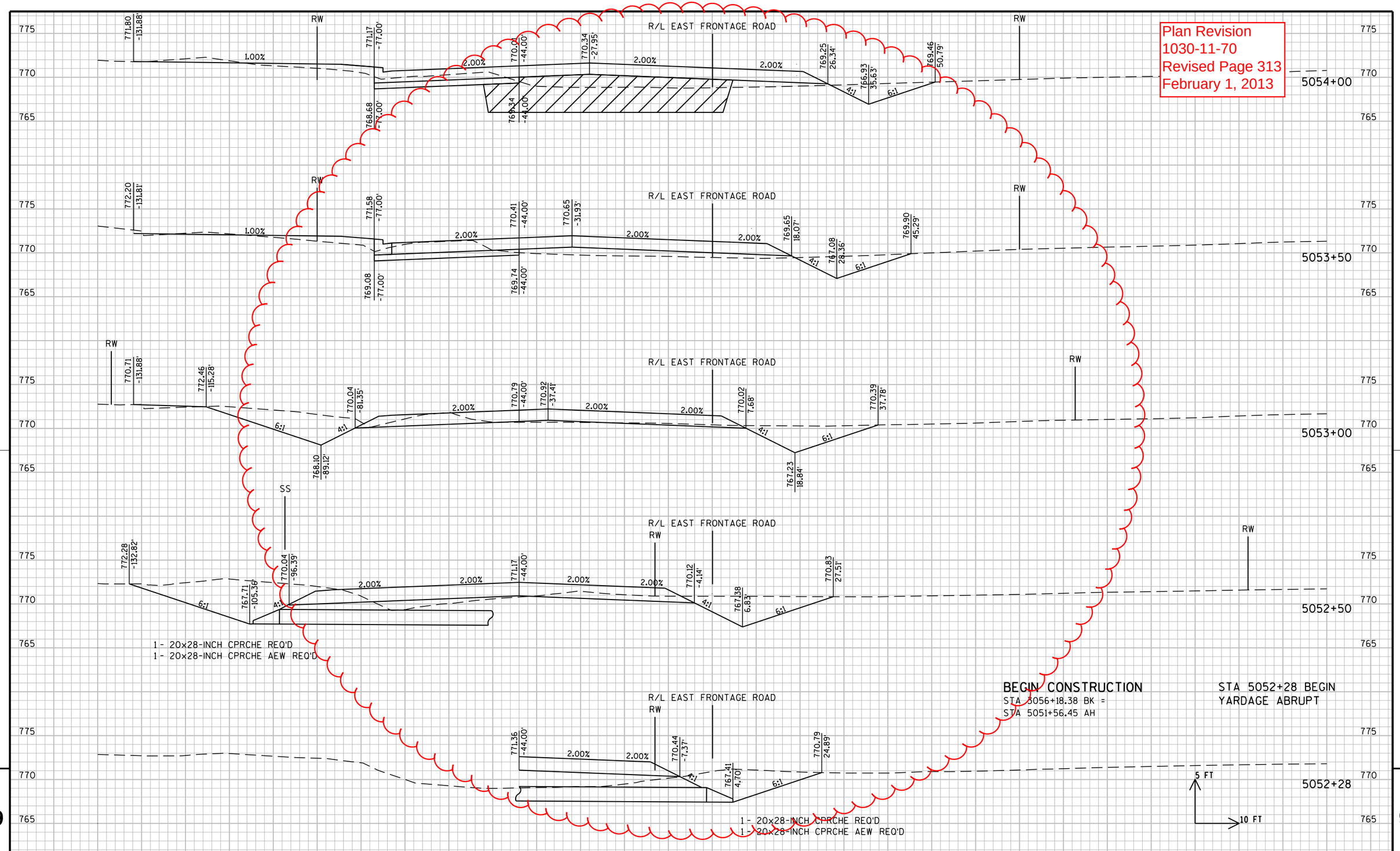


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PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\090201_xs.dgn PLOT DATE : 01-AUG-2012 10:48 PLOT BY : rmakoutz PLOT NAME : 090201_xs16 PLOT SCALE : 20:1

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9

9

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	REVISED SHEET 313	E

STA 5055+09 LT
CONSTRUCT CONCRETE PE

TO BE PAID FOR AS OBLITERATE OLD ROAD

RW

EAST FRONTAGE ROAD

NOT FOR YARDAGE

5055+59

771.31 -132.00'
770.17 -85.00'
769.47 -77.50'
768.72 -44.00'
768.83 -36.66'
768.05 0.00'
766.97 -77.50'
768.06 -44.00'
768.17 -36.66'

2.00% 2.00% 1.00% 1.00%

TO BE PAID FOR AS OBLITERATE OLD ROAD

RW

EAST FRONTAGE ROAD

771.32 -132.00'
770.24 -85.00'
769.94 -77.50'
768.79 -44.00'
768.79 0.00'
768.05 36.92'
766.37 43.80'
767.90 53.01'
767.44 -77.50'
768.13 -44.00'
768.13 0.00'
767.48 32.03'

4.00% 2.00% 2.00% 1.00% 1.00% 2.86% 4.00% 4:1 4:1 6:1

5055+50

TO BE PAID FOR AS OBLITERATE OLD ROAD

RW

EAST FRONTAGE ROAD

771.75 -132.00'
770.65 -85.00'
770.35 -77.50'
769.20 -44.00'
769.30 -22.33'
769.19 0.00'
768.45 36.92'
766.63 44.23'
768.63 56.25'
767.85 -77.50'
768.54 -44.00'
768.56 -40.22'

SEE STORM SEWER

4.00% 2.00% 2.00% 1.00% 1.00% 2.86% 4.00% 4:1 4:1 6:1

5055+00

TO BE PAID FOR AS OBLITERATE OLD ROAD

RW

R/L EAST FRONTAGE ROAD

770.77 -77.00'
769.46 -40.19'
769.33 -10.19'
768.71 34.99'
766.78 27.16'
768.27 -77.00'
769.02 -40.19'

2.00% 2.00% 0.58% 15:1 4:1

5 FT

~10 FT

5054+50

REPLACED WITH REVISED SHEET 314 2-1-2013

-140 -120 -100 -80 -60 -40 -20 0 20 40 60 80 100 140

9

9

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 314	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\090201_xs.dgn PLOT DATE : 01-AUG-2012 10:48 PLOT BY : rmakoutz PLOT NAME : 090201_xs17 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

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STA 5055+09 LT
CONSTRUCT CONCRETE PE

NOT FOR YARDAGE

TO BE PAID FOR AS
OBLITERATE OLD ROAD

RW

EAST FRONTAGE ROAD

771.31 -132.00'
770.17 -85.00'
769.47 -77.50'
768.72 -44.00'
768.94 -22.00'
768.72 0.00'
766.97 -77.50'
768.05 -44.00'
768.27 -22.00'
768.05 0.00'
2.00% 2.00% 1.00% 1.00%

5055+59

TO BE PAID FOR AS
OBLITERATE OLD ROAD

RW

EAST FRONTAGE ROAD

771.32 -132.00'
770.24 -85.00'
769.94 -77.50'
768.79 -44.00'
769.01 -22.00'
768.79 0.00'
767.44 -77.50'
768.12 -44.00'
768.34 -22.00'
4.00% 2.00% 2.00% 1.00% 1.00% 2.00% 4.00%
768.05 36.92'
766.37 43.80'
767.90 53.01'
4:1 4:1 6:1

RW

5055+50

TO BE PAID FOR AS
OBLITERATE OLD ROAD

RW

EAST FRONTAGE ROAD

771.75 -132.00'
770.65 -85.00'
770.35 -77.50'
769.20 -44.00'
769.38 -25.04'
769.17 0.00'
767.85 -77.50'
768.32 -44.00'
4.00% 2.00% 2.00% 1.00% 1.00% 2.00% 4.00%
768.49 35.49'
766.63 42.80'
768.62 54.61'
4:1 4:1 6:1

SEE STORM SEWER

RW

5055+00

TO BE PAID FOR AS
OBLITERATE OLD ROAD

RW

R/L EAST FRONTAGE ROAD

770.77 -77.00'
769.60 -44.00'
769.99 -24.75'
768.27 -77.00'
768.43 -44.00'
2.00% 2.00% 2.00% 2.00% 2.00%
768.83 32.81'
766.78 40.89'
768.88 53.47'
4:1 6:1

RW

5 FT
10 FT

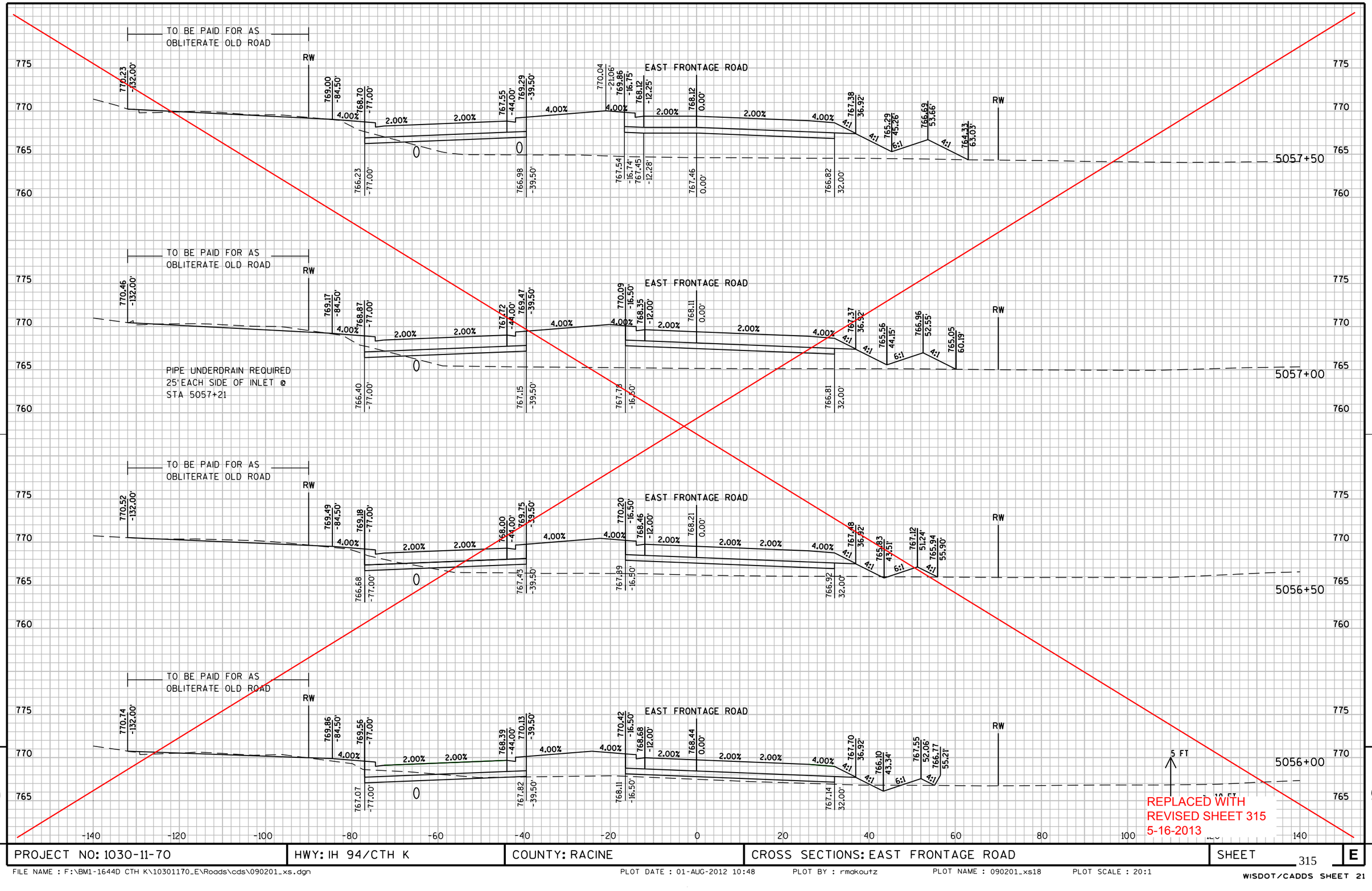
5054+50

775 770 765

-140 -120 -100 -80 -60 -40 -20 0 20 40 60 80 100 120 140

9 9

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	REVISED SHEET 314	E

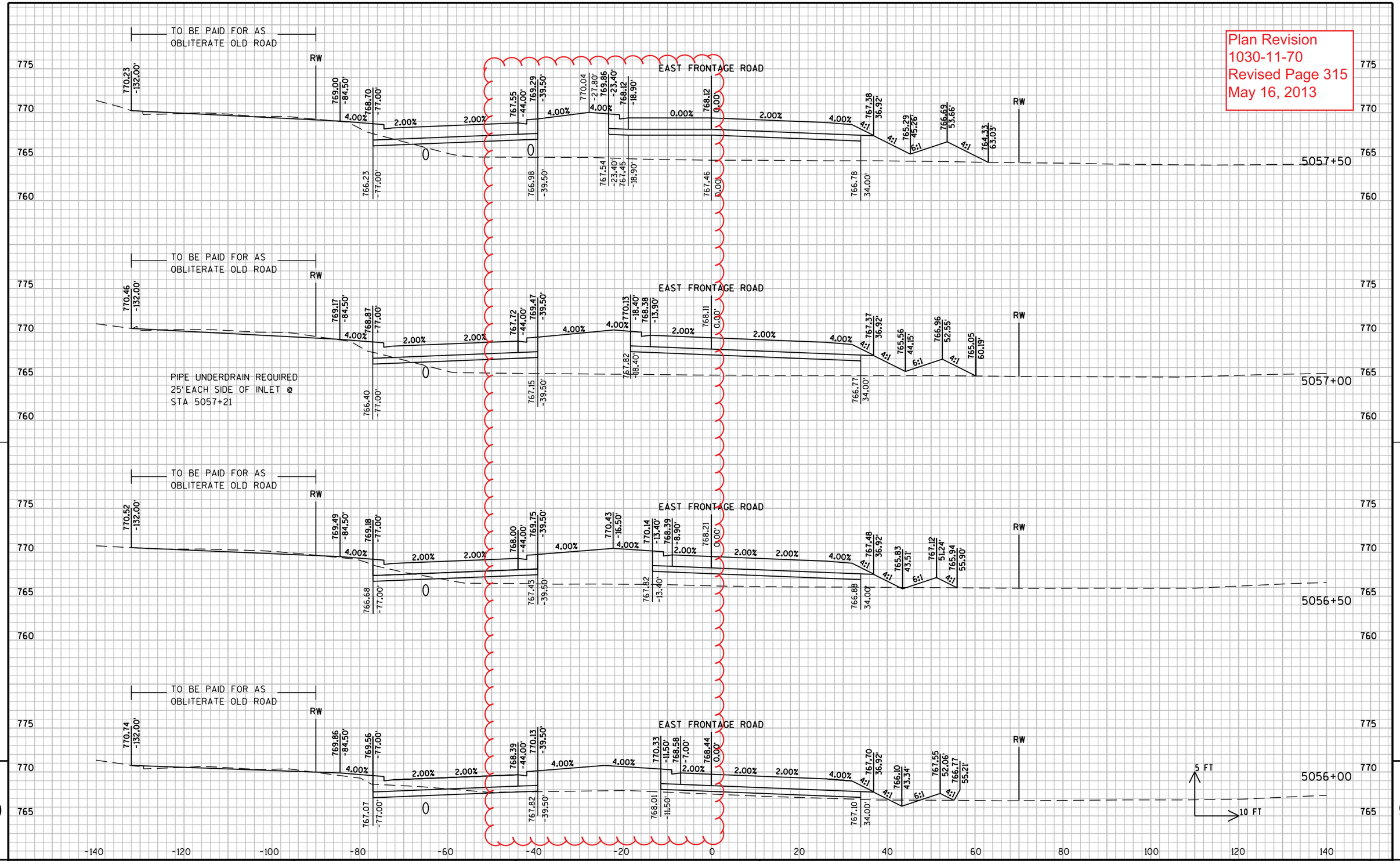


PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 315	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\090201_xs.dgn PLOT DATE : 01-AUG-2012 10:48 PLOT BY : rmakoutz PLOT NAME : 090201_xs18 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

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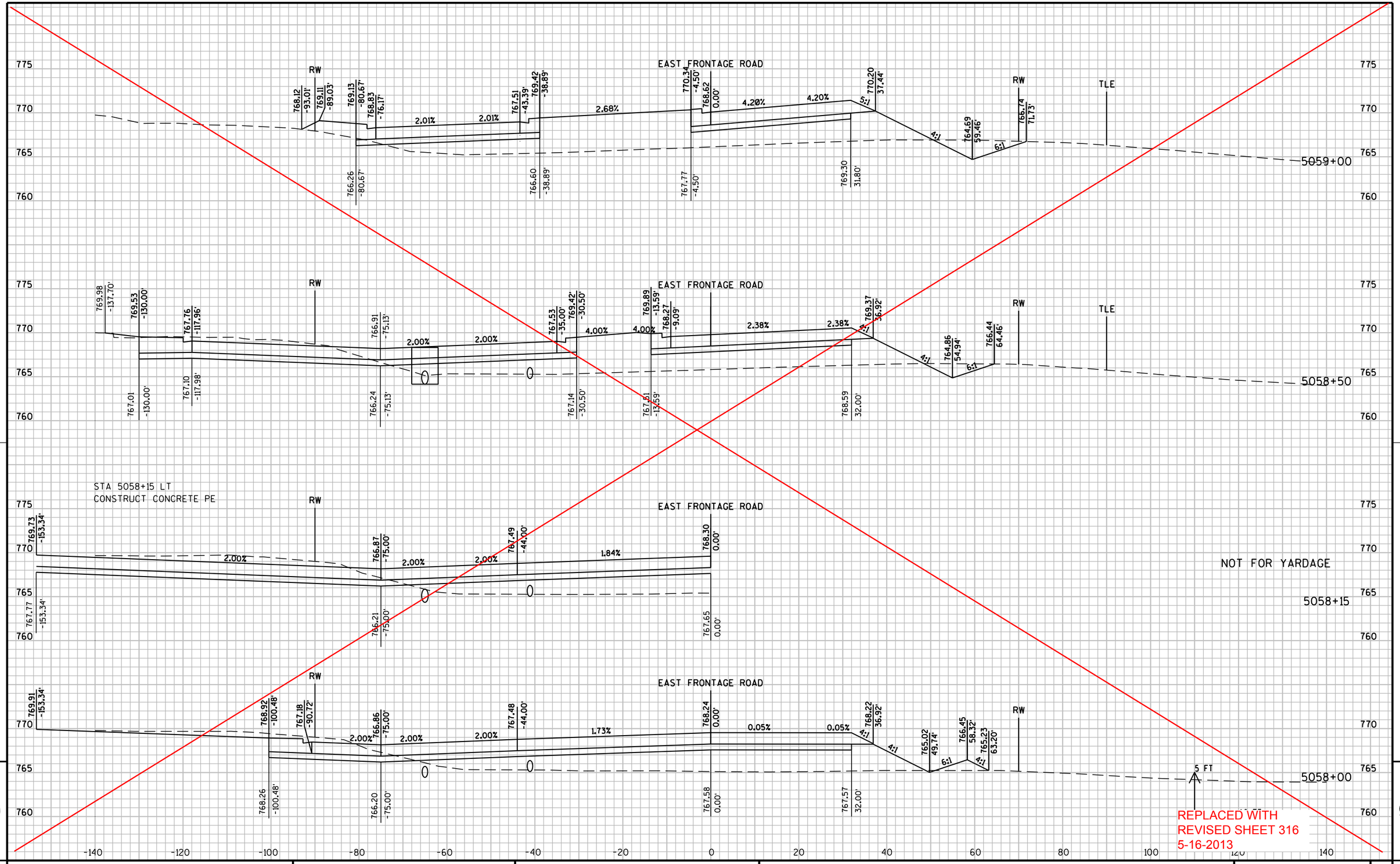


PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	REVISED SHEET 315	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\090201_xs.dgn PLOT DATE : 16-MAY-2013 14:42 PLOT BY : cfranzen PLOT NAME : 090201_xs PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

9

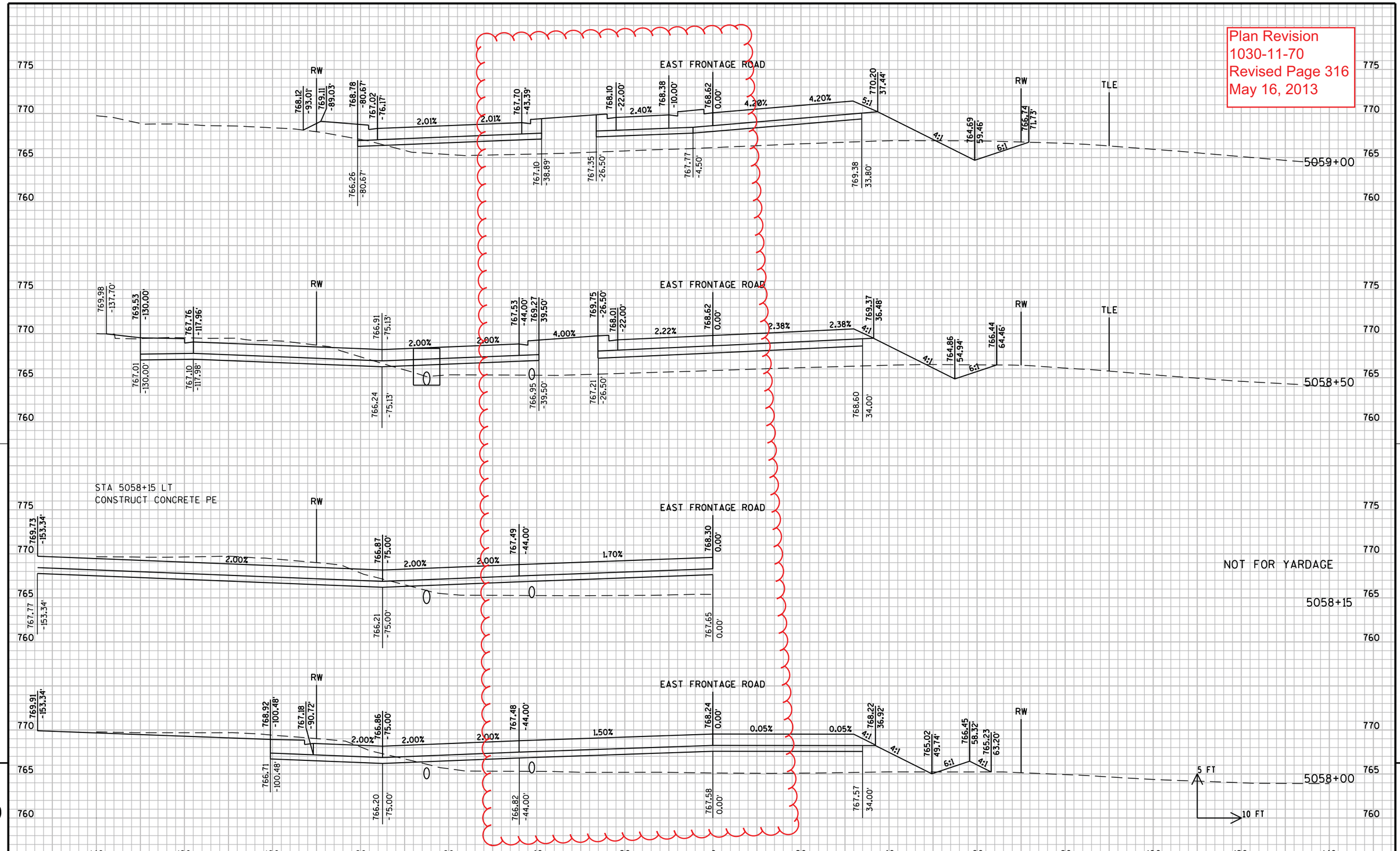


PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 316 E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\090201_xs.dgn PLOT DATE : 01-AUG-2012 10:48 PLOT BY : rmakoutz PLOT NAME : 090201_xs19 PLOT SCALE : 20:1

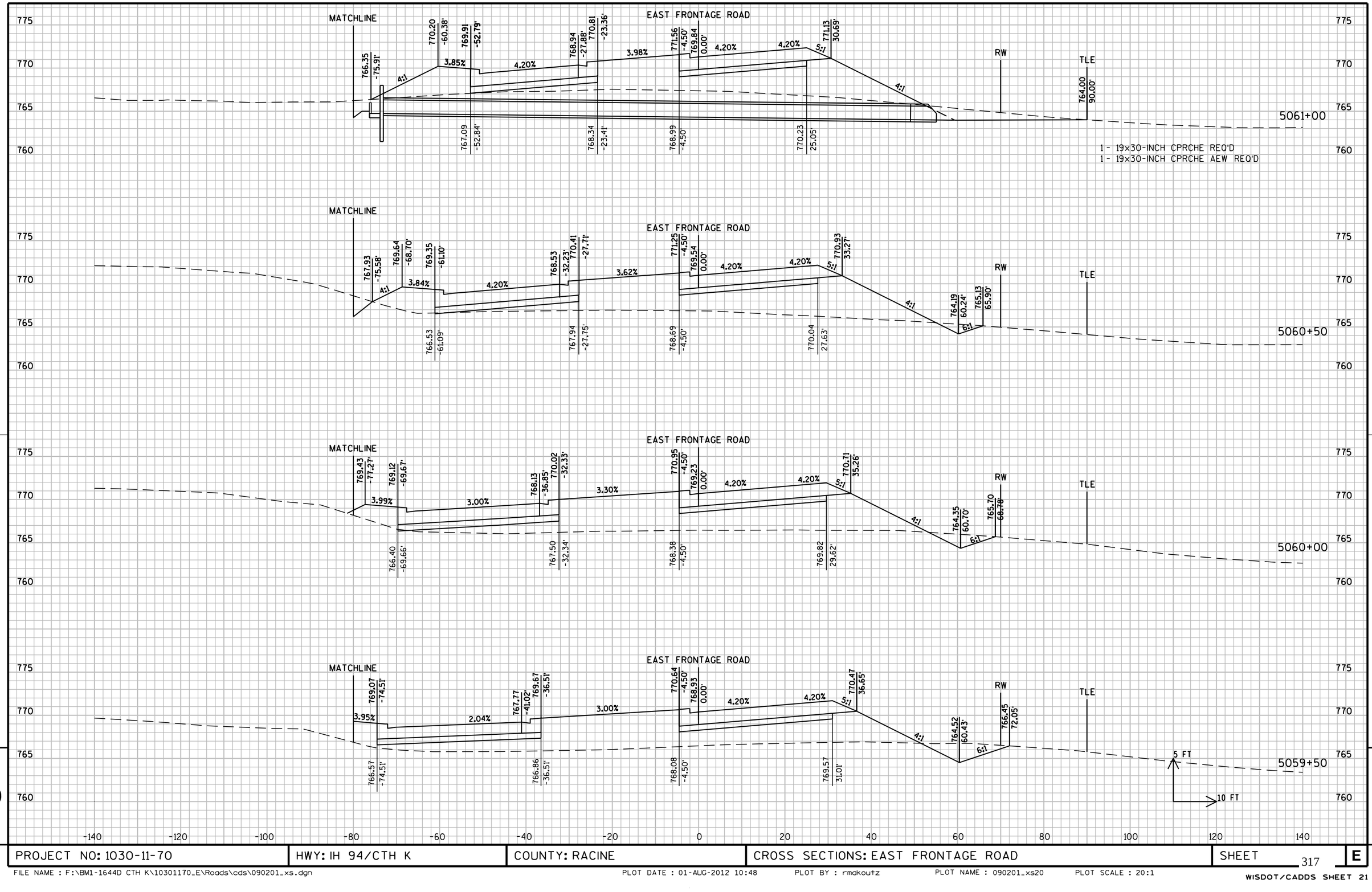
WISDOT/CADDS SHEET 21

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PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	REVISED SHEET 316	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\090201_xs.dgn PLOT DATE : 16-MAY-2013 14:44 PLOT BY : cfranzen PLOT NAME : 090201_xs PLOT SCALE : 20:1

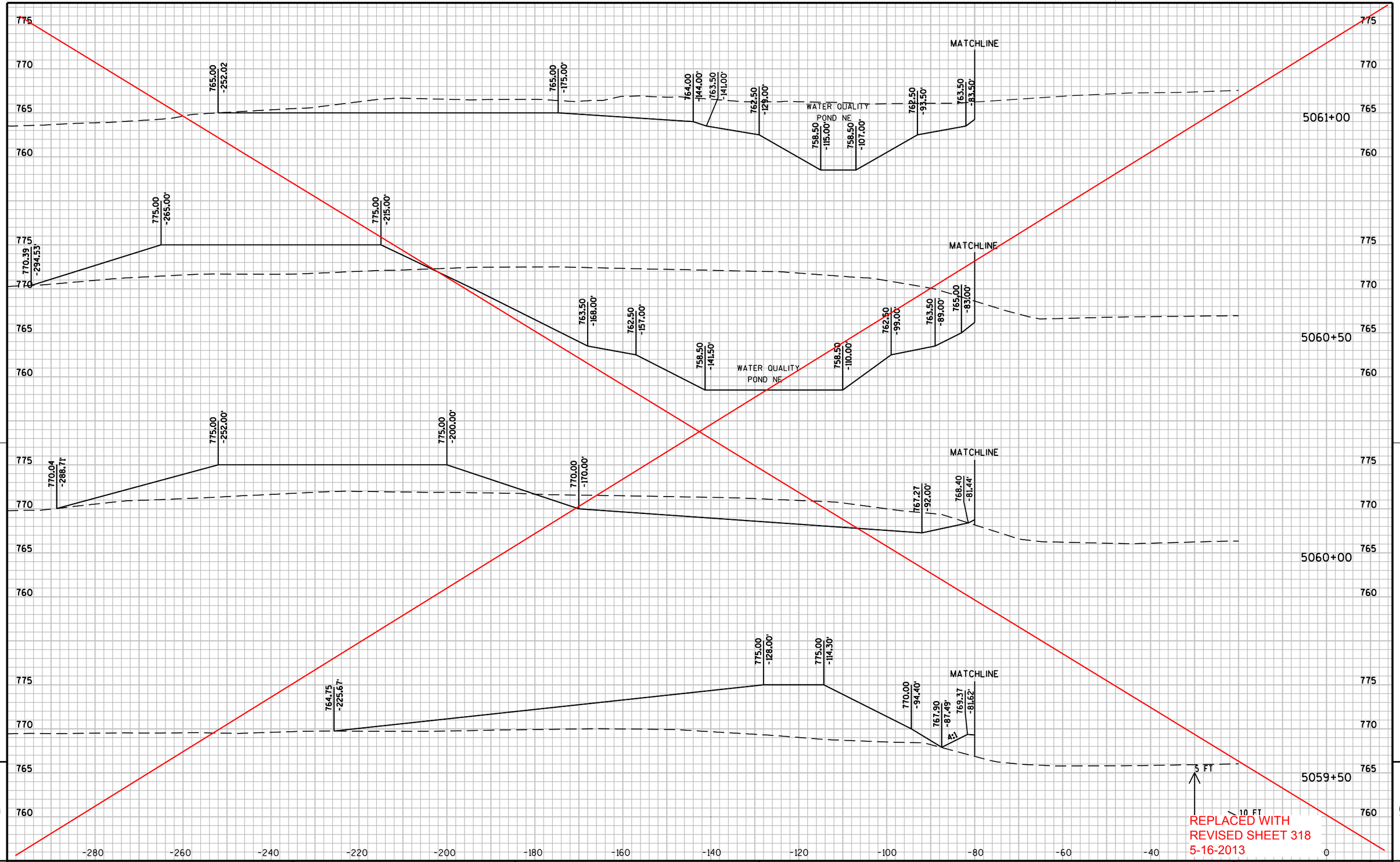


9

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 317 E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\090201_xs.dgn PLOT DATE : 01-AUG-2012 10:48 PLOT BY : rmakoutz PLOT NAME : 090201_xs20 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



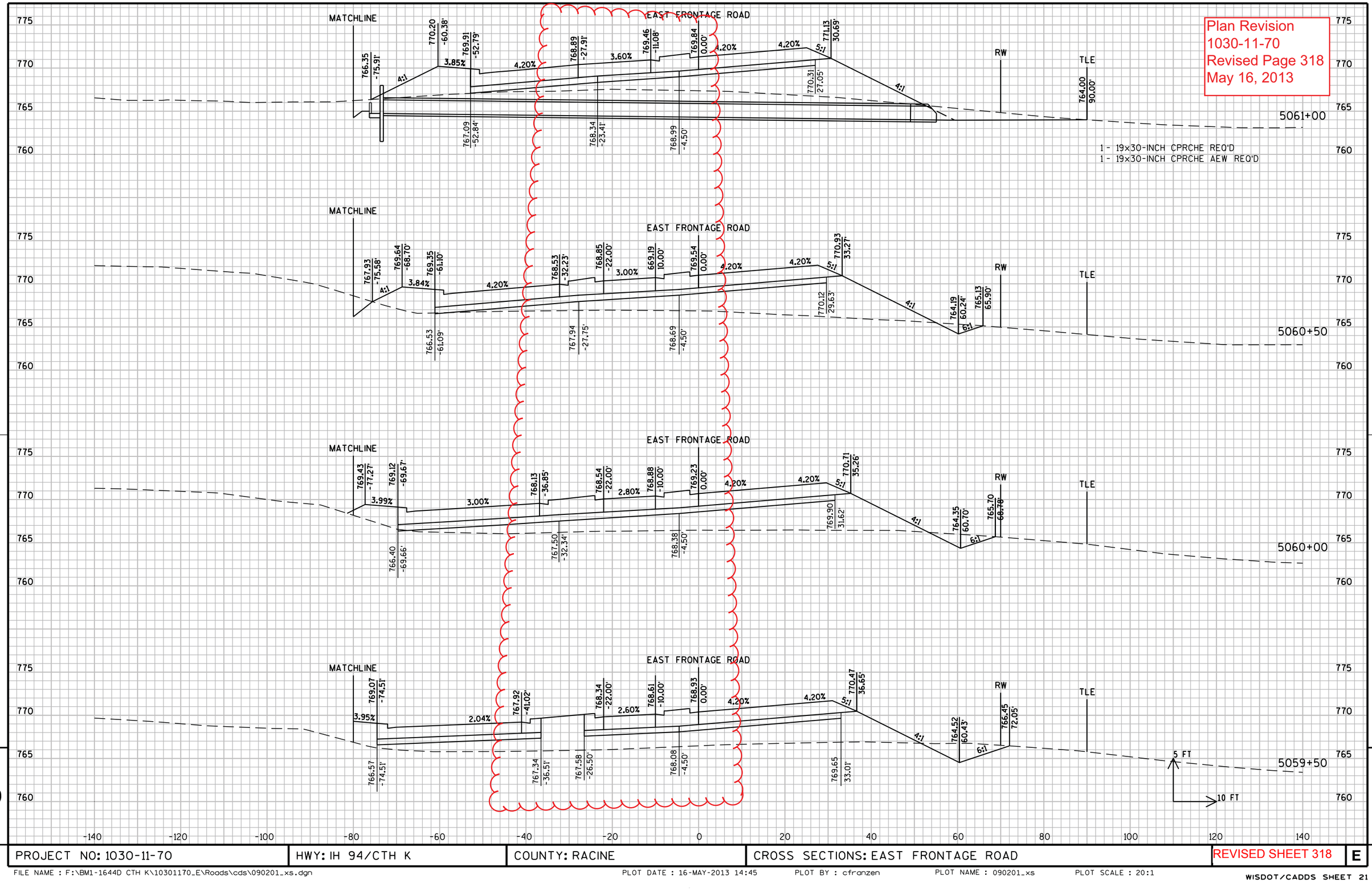
REPLACED WITH
REVISED SHEET 318
5-16-2013

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 318 E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\090207_xs.dgn PLOT DATE : 01-AUG-2012 10:48 PLOT BY : rmakoutz PLOT NAME : 090207_xs1 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

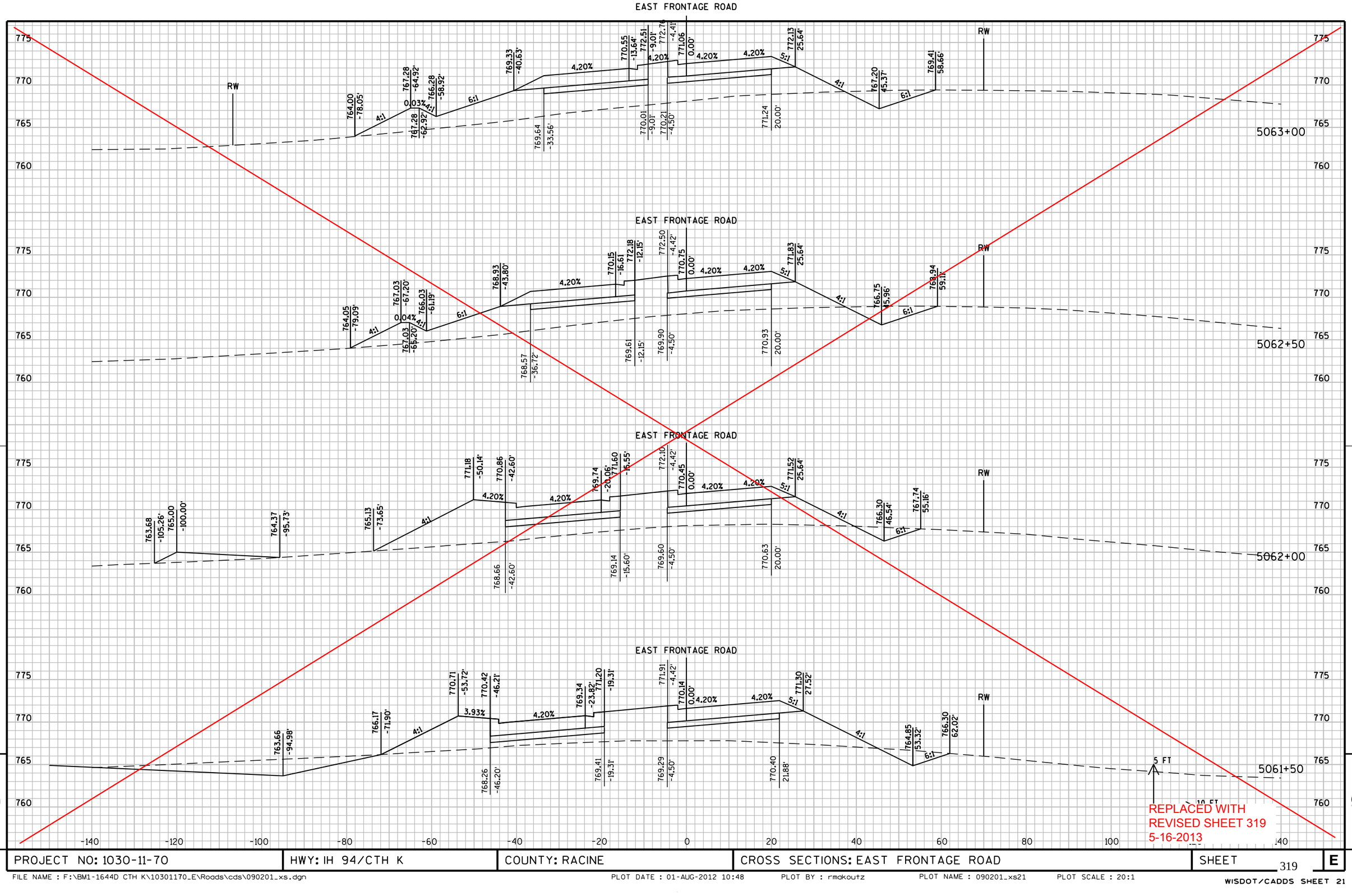
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PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	REVISED SHEET 318	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\090201_xs.dgn PLOT DATE : 16-MAY-2013 14:45 PLOT BY : cfranzen PLOT NAME : 090201_xs PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



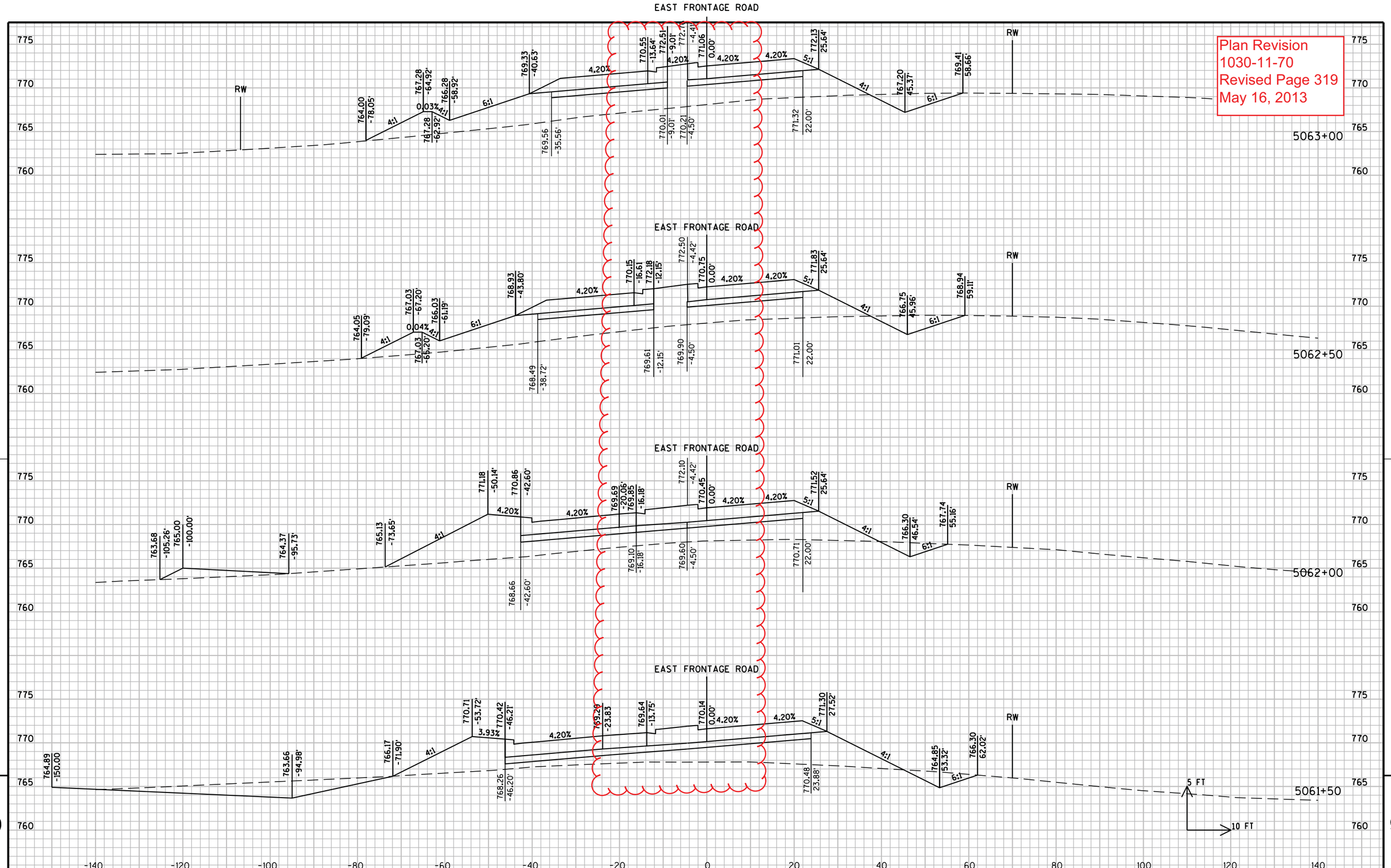
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PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 319	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\090201_xs.dgn PLOT DATE : 01-AUG-2012 10:48 PLOT BY : rmakoutz PLOT NAME : 090201_xs21 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

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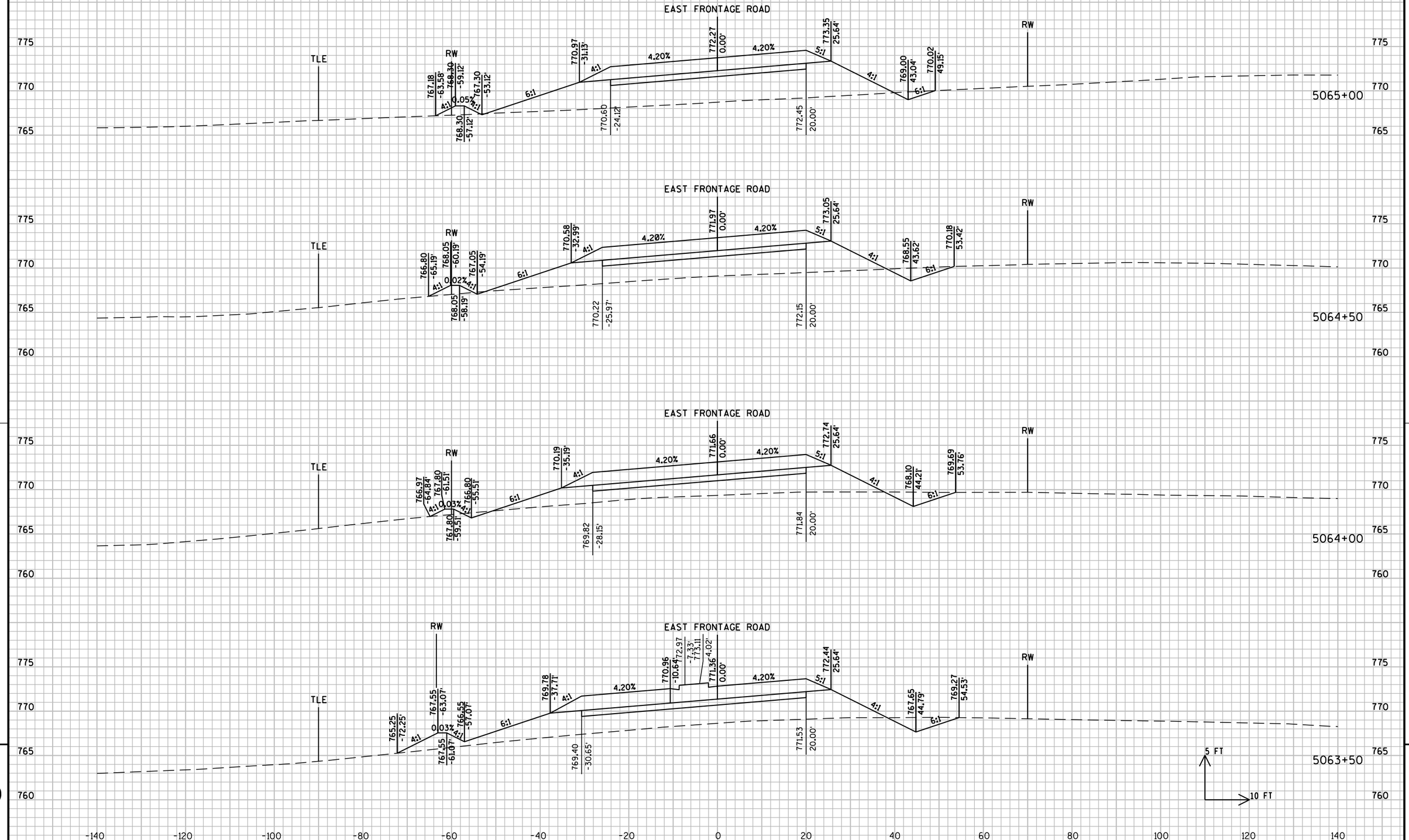
PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	REVISED SHEET 319	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\090201_xs.dgn PLOT DATE : 16-MAY-2013 14:46 PLOT BY : cfranzen PLOT NAME : 090201_xs PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

9

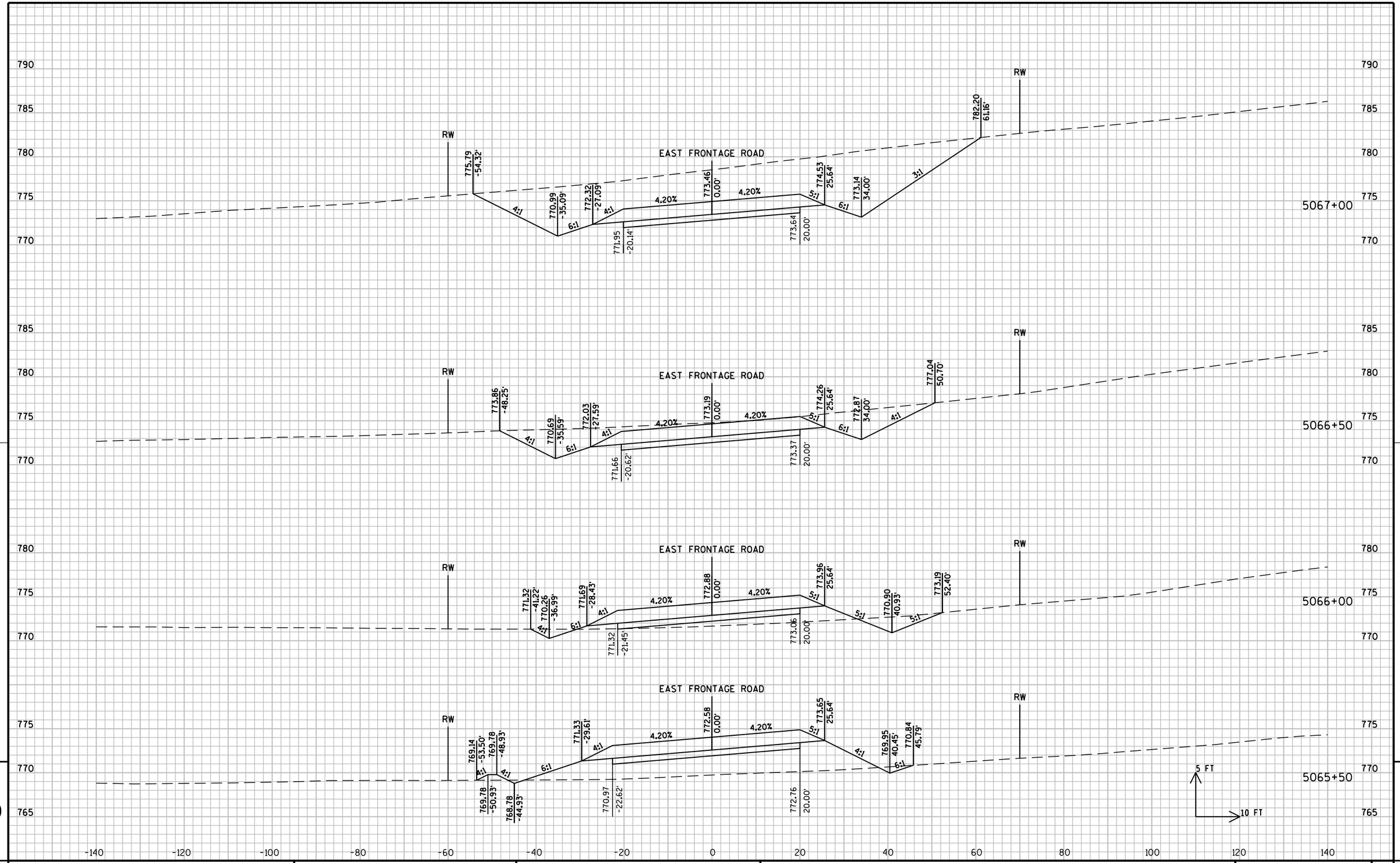
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PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 320 E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\090201_xs.dgn PLOT DATE : 01-AUG-2012 10:48 PLOT BY : rmakoutz PLOT NAME : 090201_xs22 PLOT SCALE : 20:1

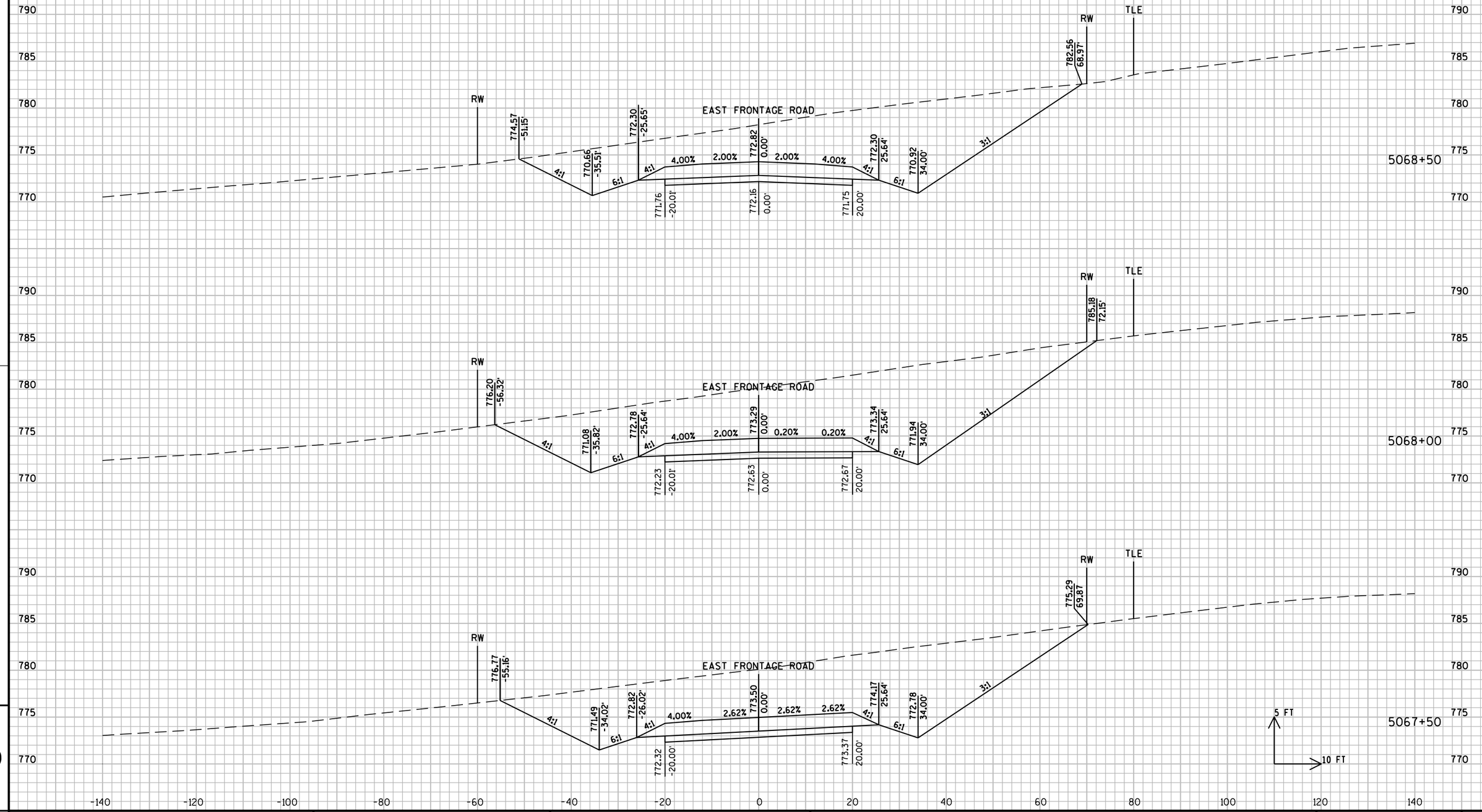
WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 321	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\090201_xs.dgn PLOT DATE : 01-AUG-2012 10:48 PLOT BY : rmakoutz PLOT NAME : 090201_xs23 PLOT SCALE : 20:1

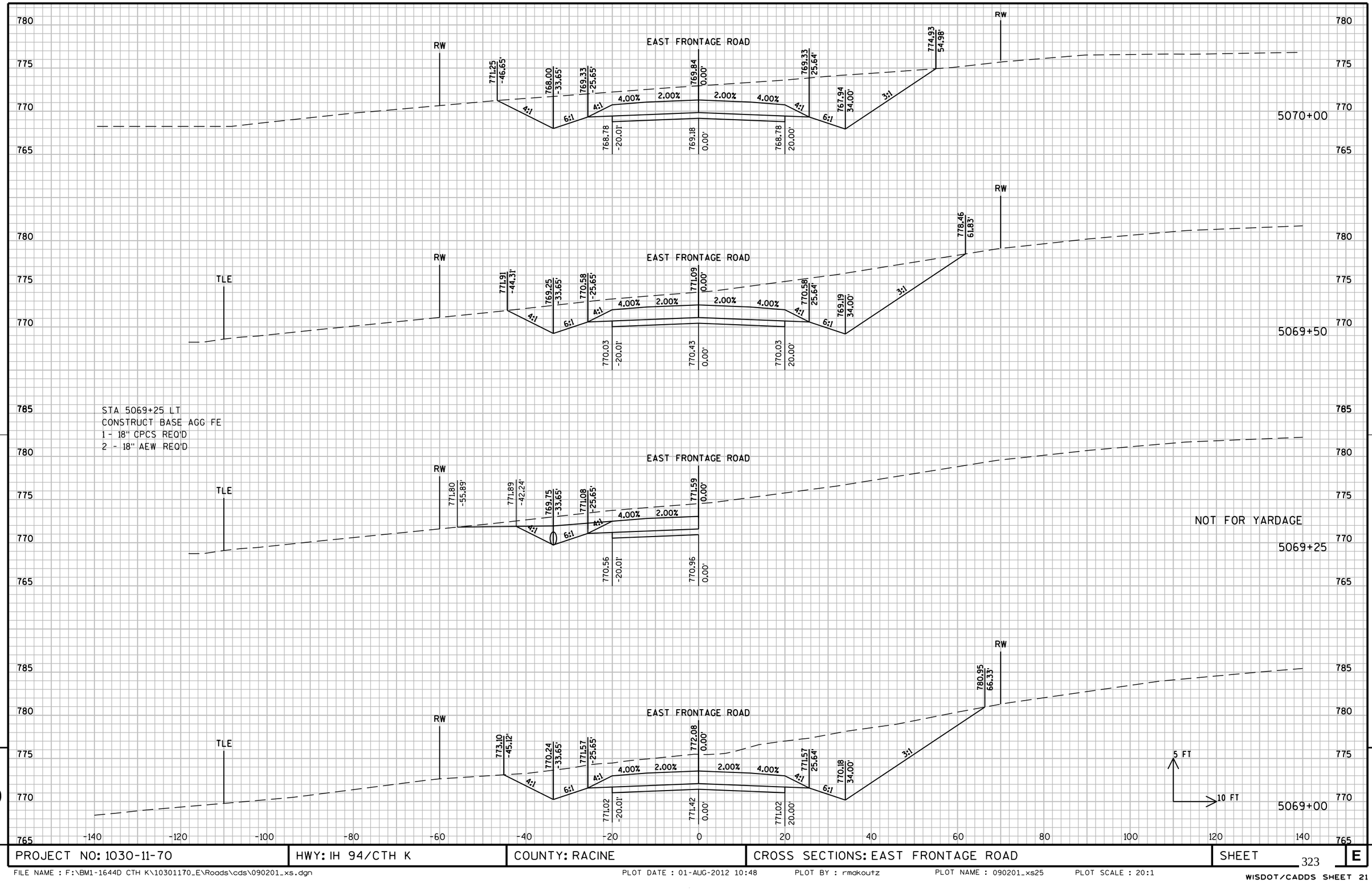
WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 322	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\090201_xs.dgn PLOT DATE : 01-AUG-2012 10:48 PLOT BY : rmakoutz PLOT NAME : 090201_xs24 PLOT SCALE : 20:1

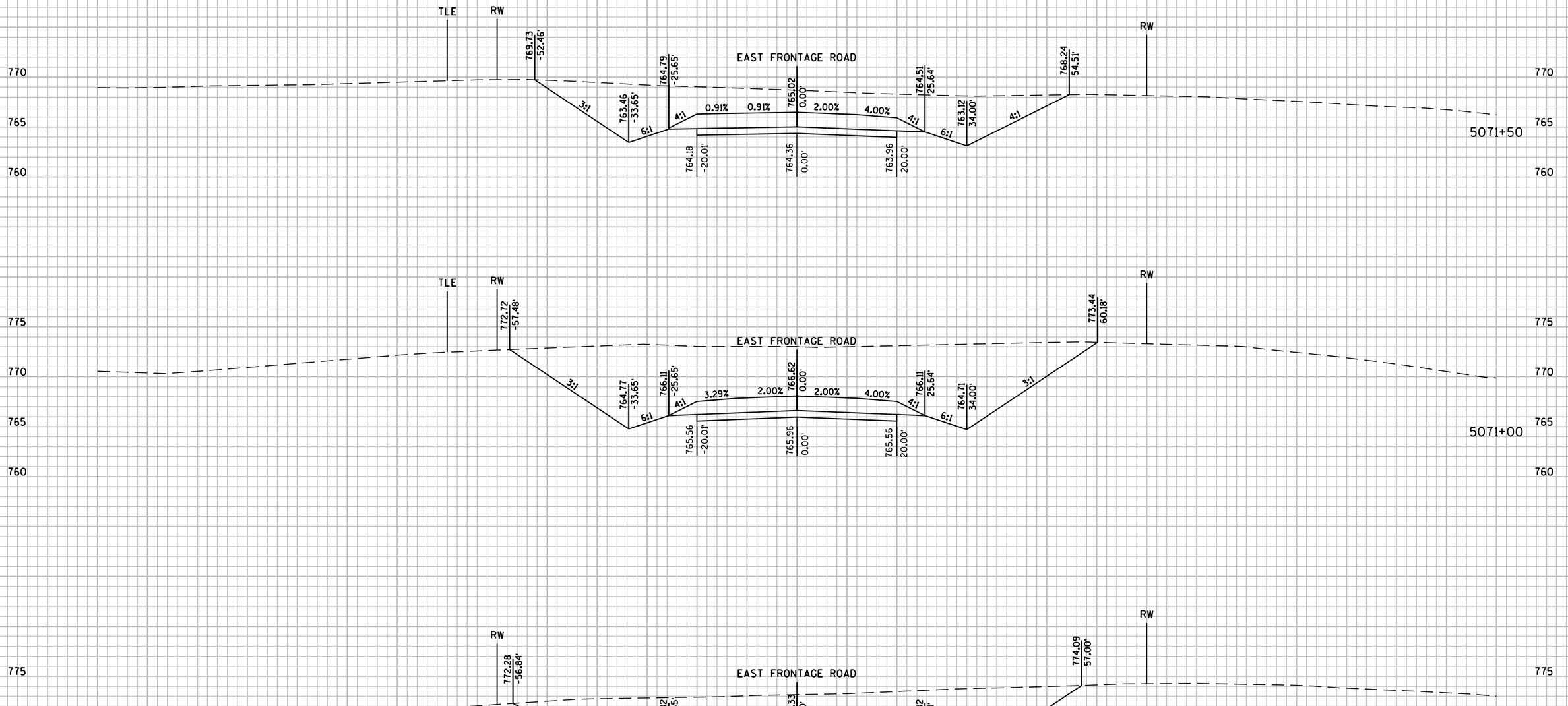
WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 323 E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\090201_xs.dgn PLOT DATE : 01-AUG-2012 10:48 PLOT BY : rmakoutz PLOT NAME : 090201_xs25 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



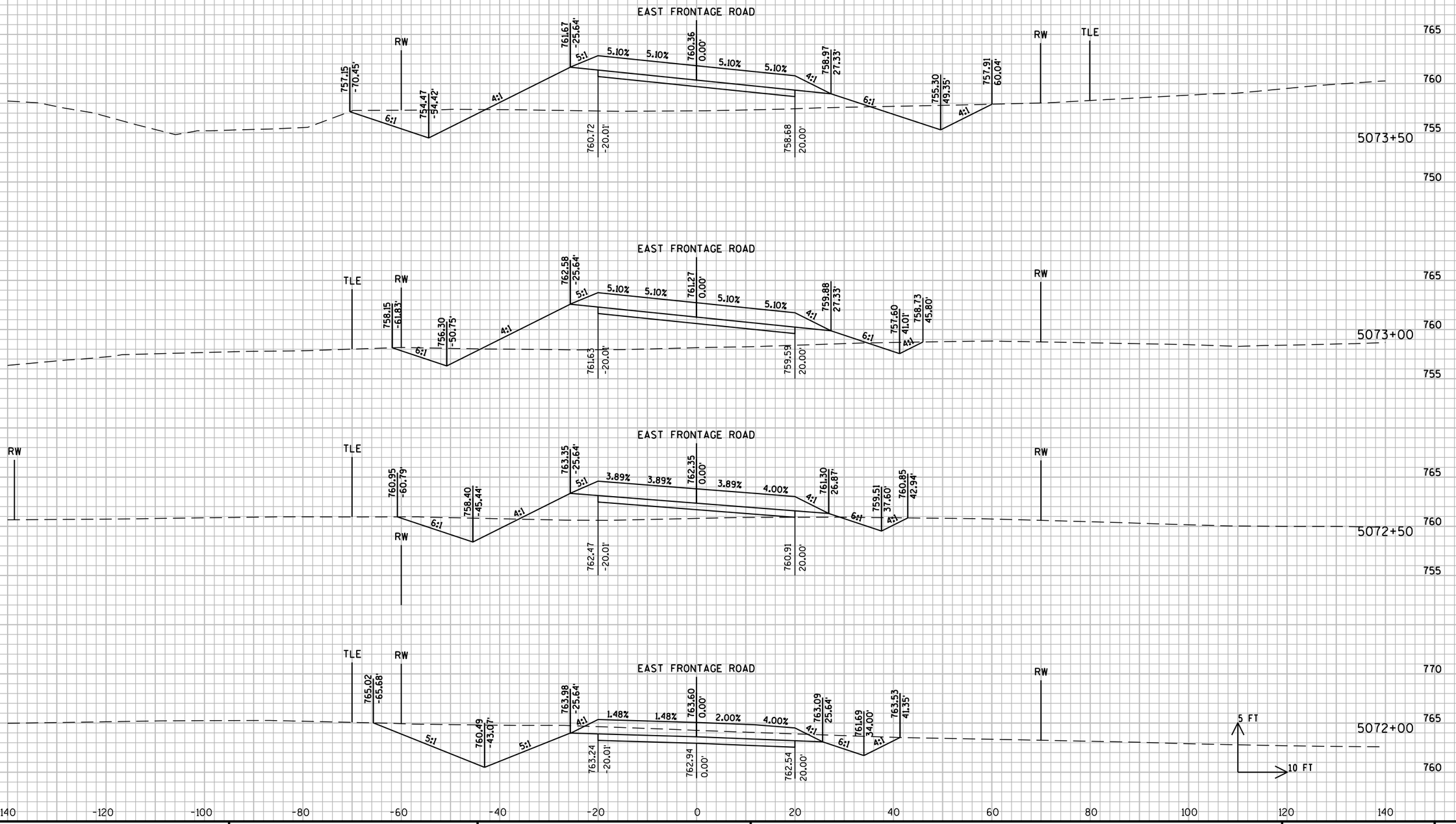
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PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 324	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\090201_xs.dgn PLOT DATE : 01-AUG-2012 10:48 PLOT BY : rmakoutz PLOT NAME : 090201_xs26 PLOT SCALE : 20:1

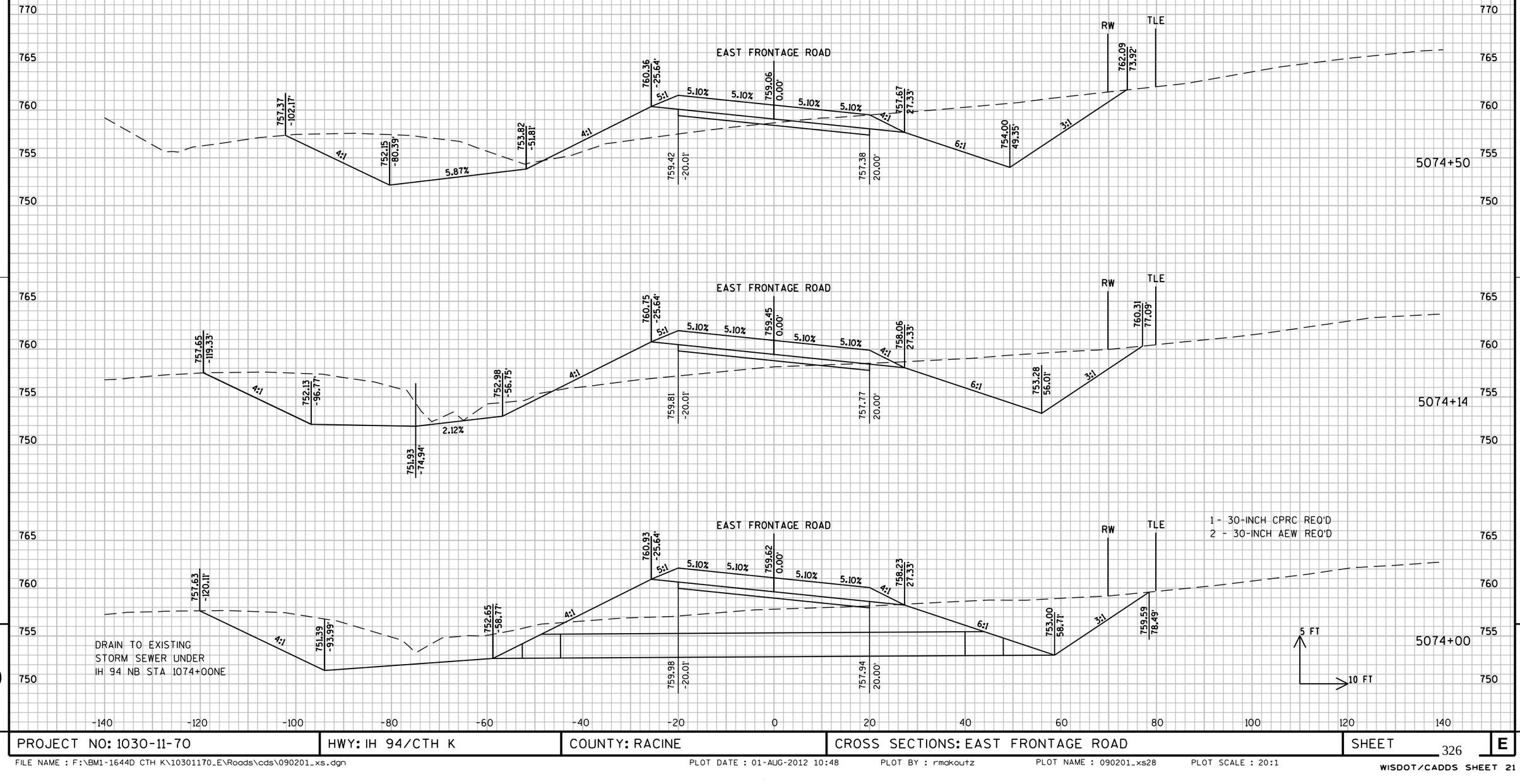
WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 325	E

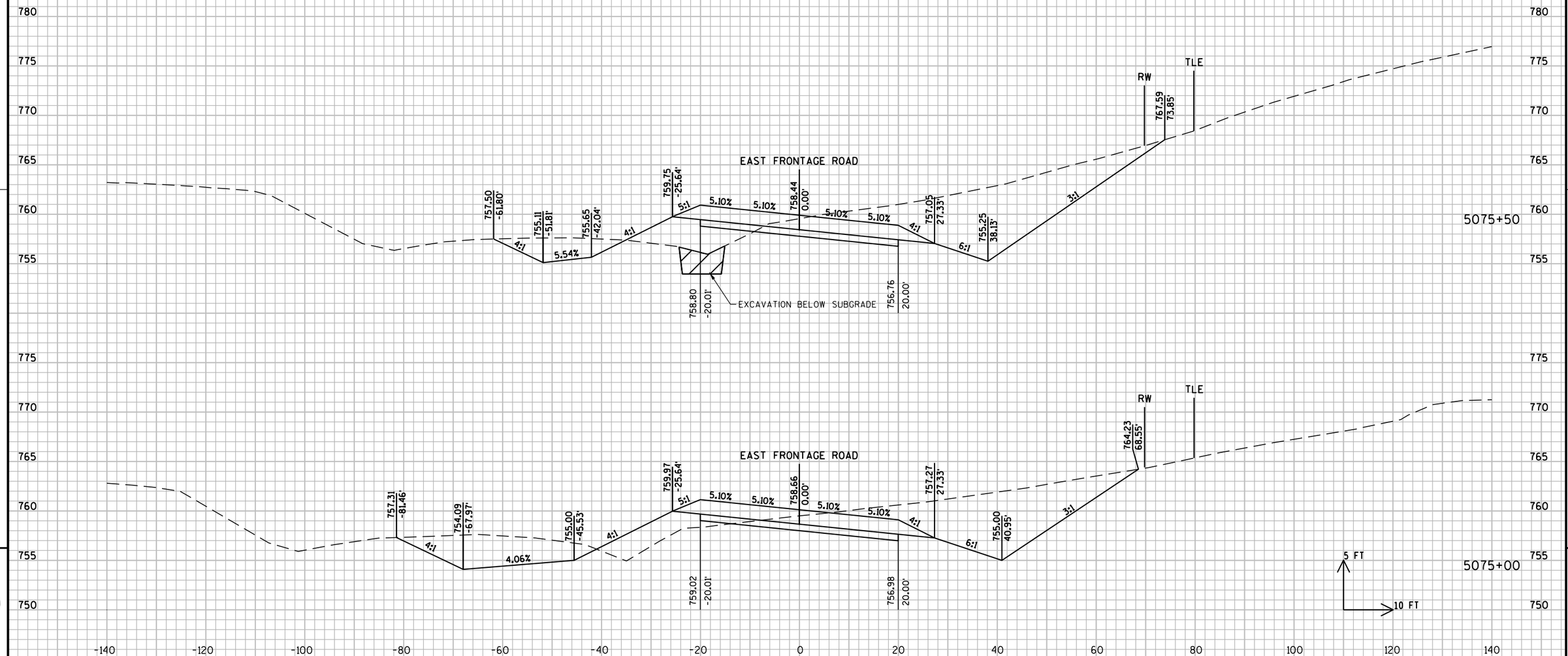
FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\090201_xs.dgn PLOT DATE : 01-AUG-2012 10:48 PLOT BY : rmakoutz PLOT NAME : 090201_xs27 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET	E

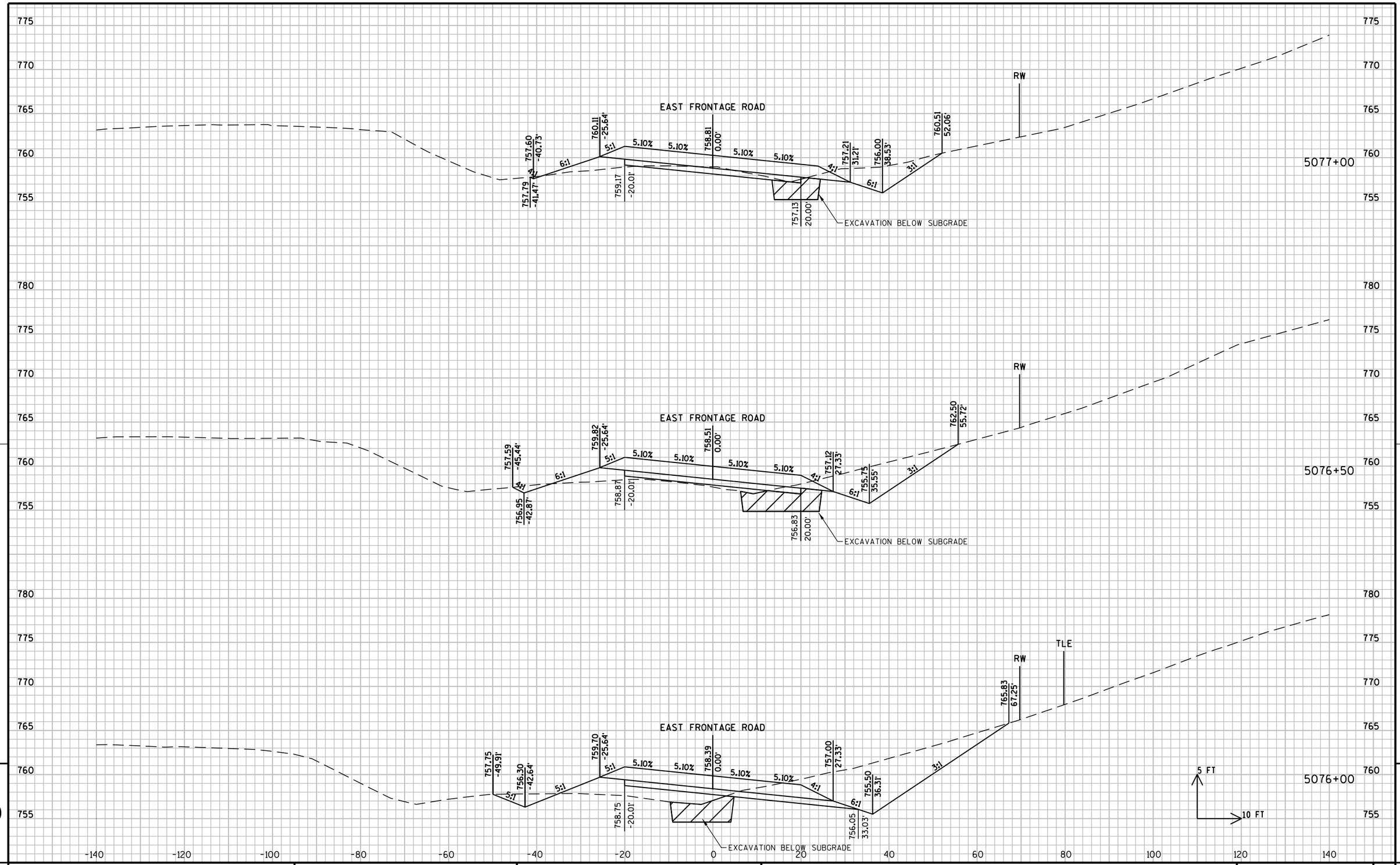
FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\090201_xs.dgn PLOT DATE : 01-AUG-2012 10:48 PLOT BY : rmakoutz PLOT NAME : 090201_xs28 PLOT SCALE : 20:1



PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 327 E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\090201_xs.dgn PLOT DATE : 01-AUG-2012 10:48 PLOT BY : rmakoutz PLOT NAME : 090201_xs29 PLOT SCALE : 20:1

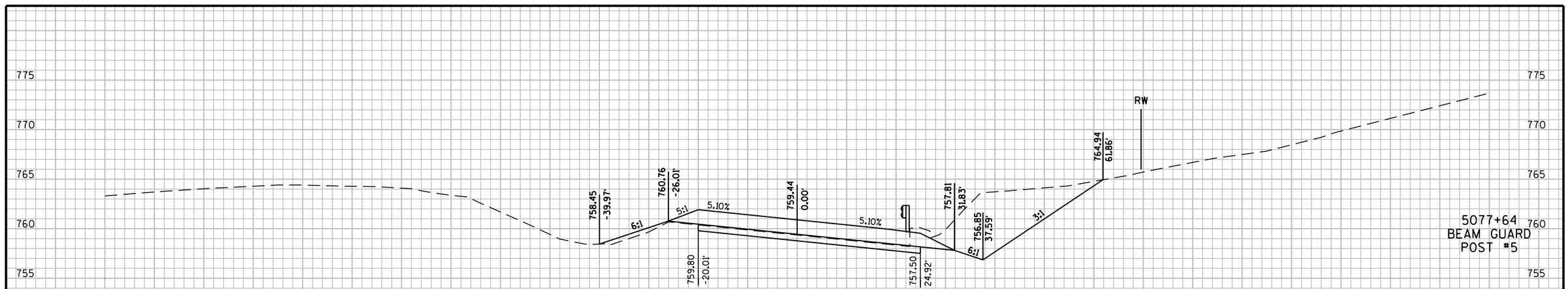
WISDOT/CADDS SHEET 21

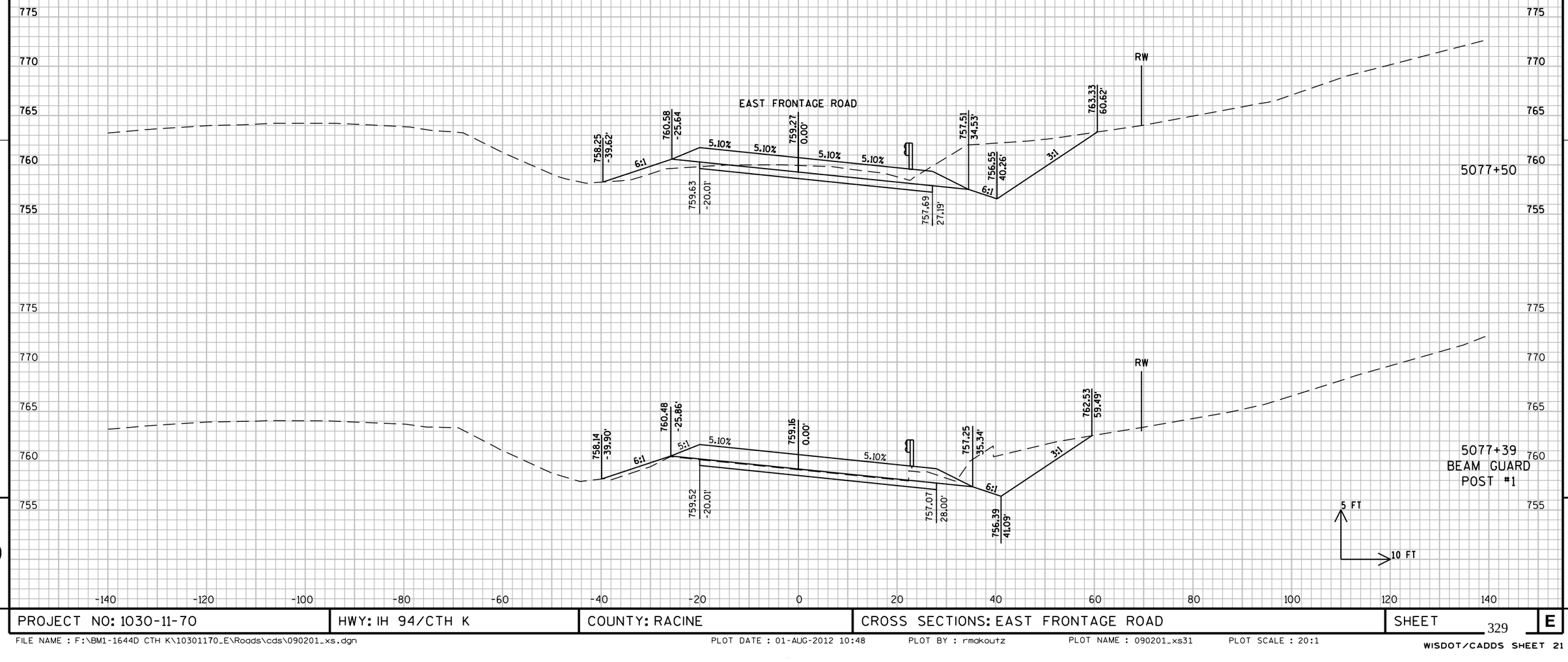


PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 328 E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\090201_xs.dgn PLOT DATE : 01-AUG-2012 10:48 PLOT BY : rmakoutz PLOT NAME : 090201_xs30 PLOT SCALE : 20:1

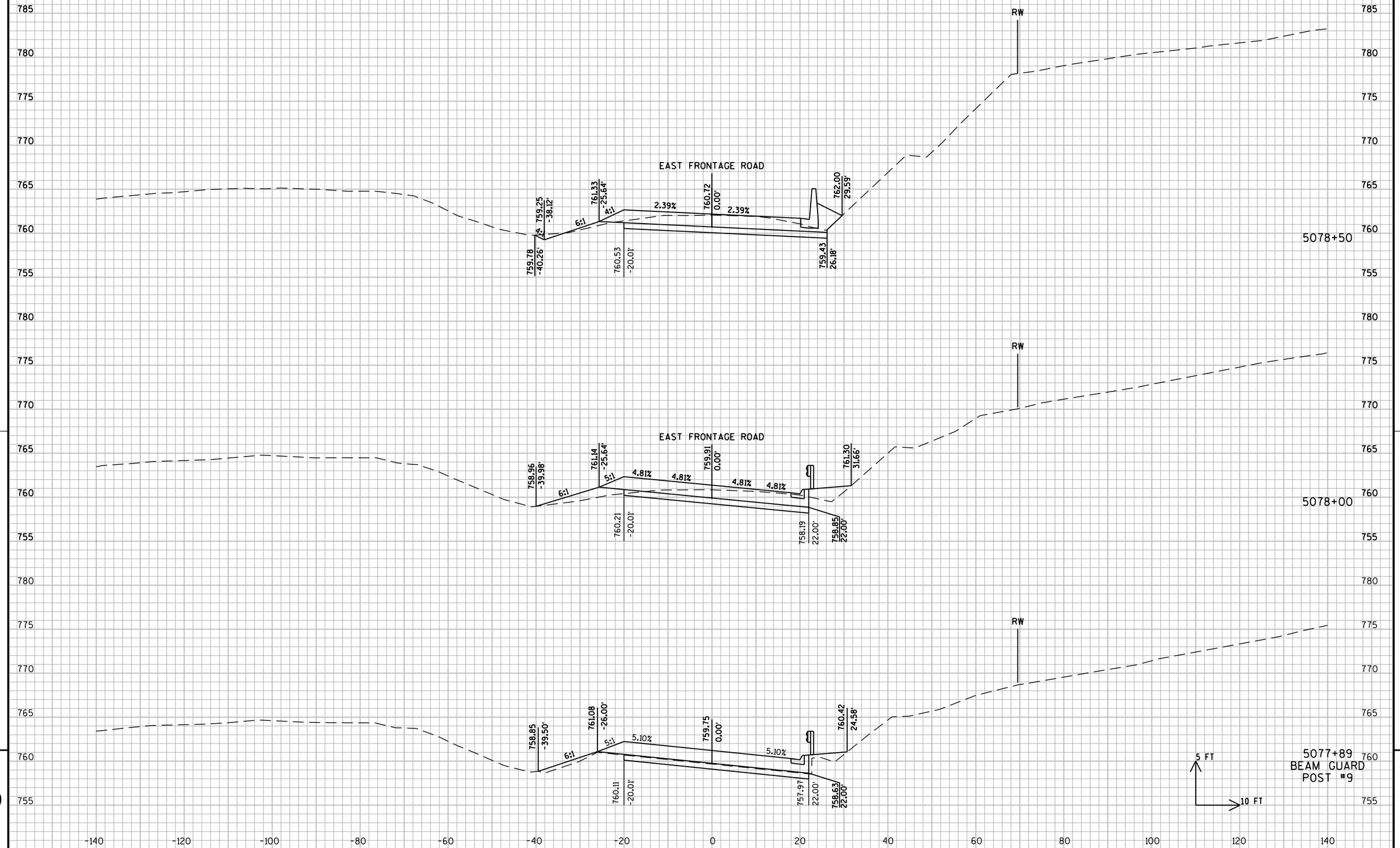
WISDOT/CADDS SHEET 21





PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET	E

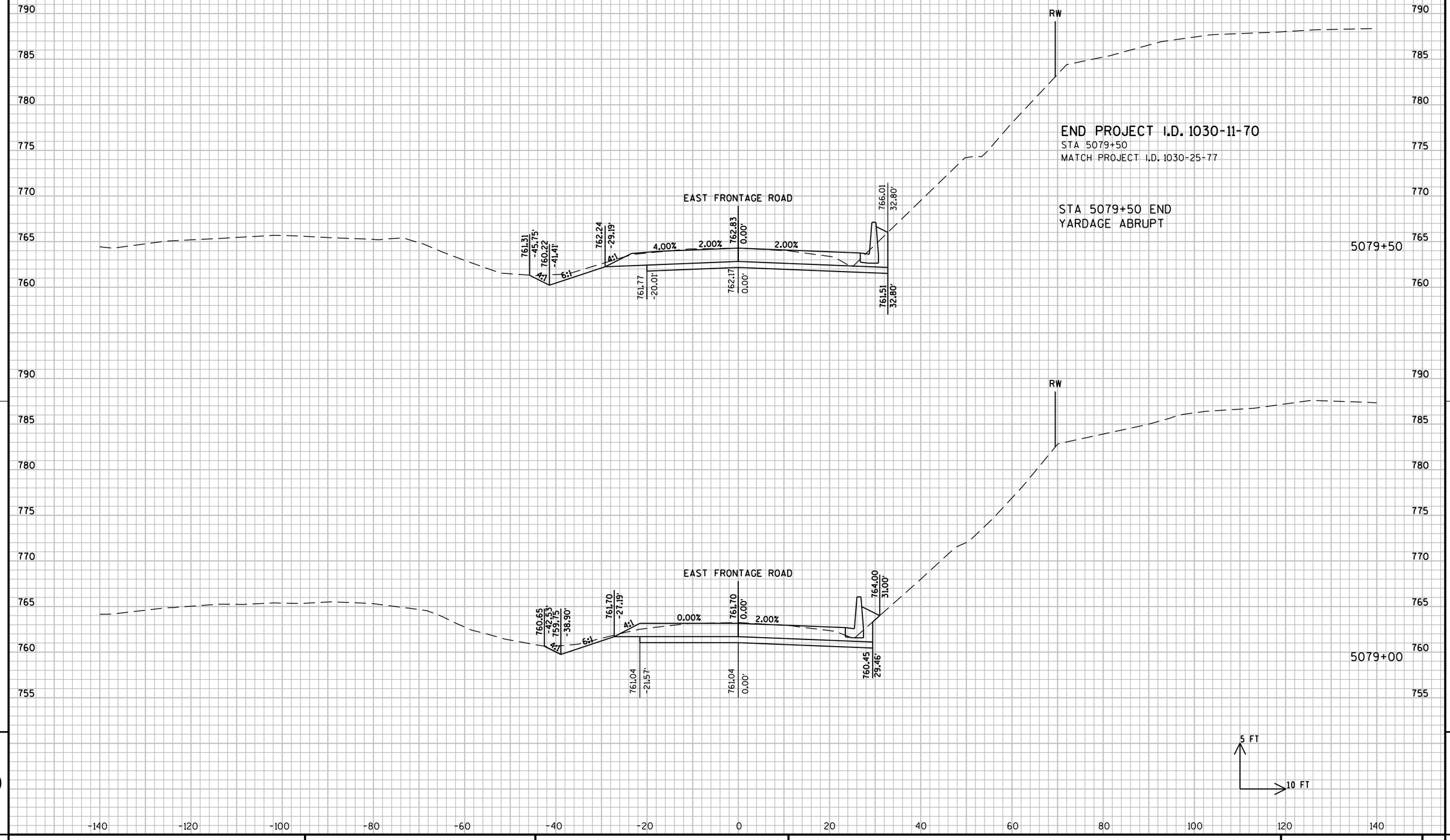
FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\090201_xs.dgn PLOT DATE : 01-AUG-2012 10:48 PLOT BY : rmakoutz PLOT NAME : 090201_xs31 PLOT SCALE : 20:1



PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 330 E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\090201_xs.dgn PLOT DATE : 01-AUG-2012 10:48 PLOT BY : rmakoutz PLOT NAME : 090201_xs32 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

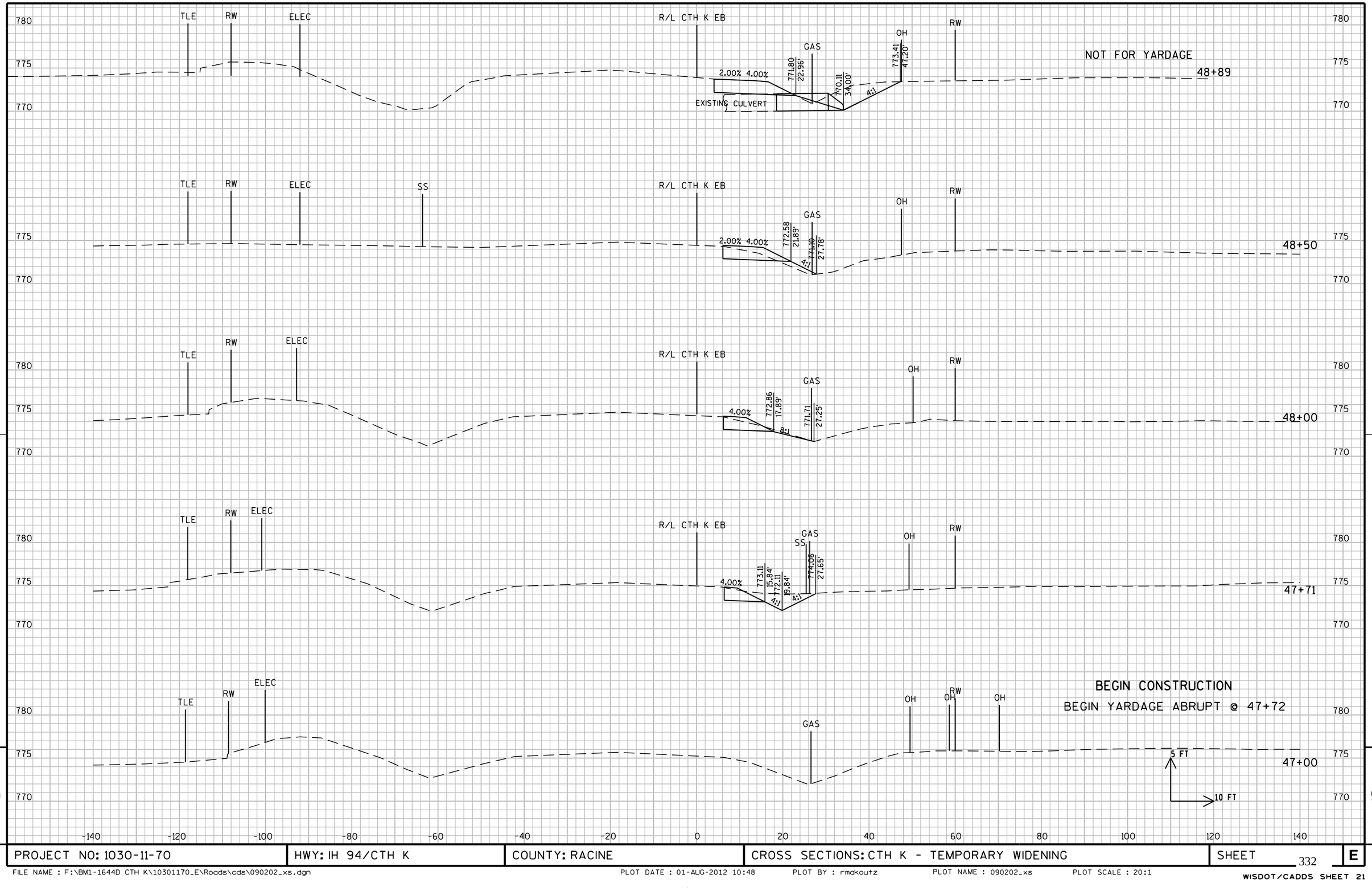


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PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\090201_xs.dgn PLOT DATE : 01-AUG-2012 10:48 PLOT BY : rmakoutz PLOT NAME : 090201_xs33 PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K - TEMPORARY WIDENING	SHEET 332 E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\090202_xs.dgn PLOT DATE : 01-AUG-2012 10:48 PLOT BY : rmakoutz PLOT NAME : 090202_xs PLOT SCALE : 20:1

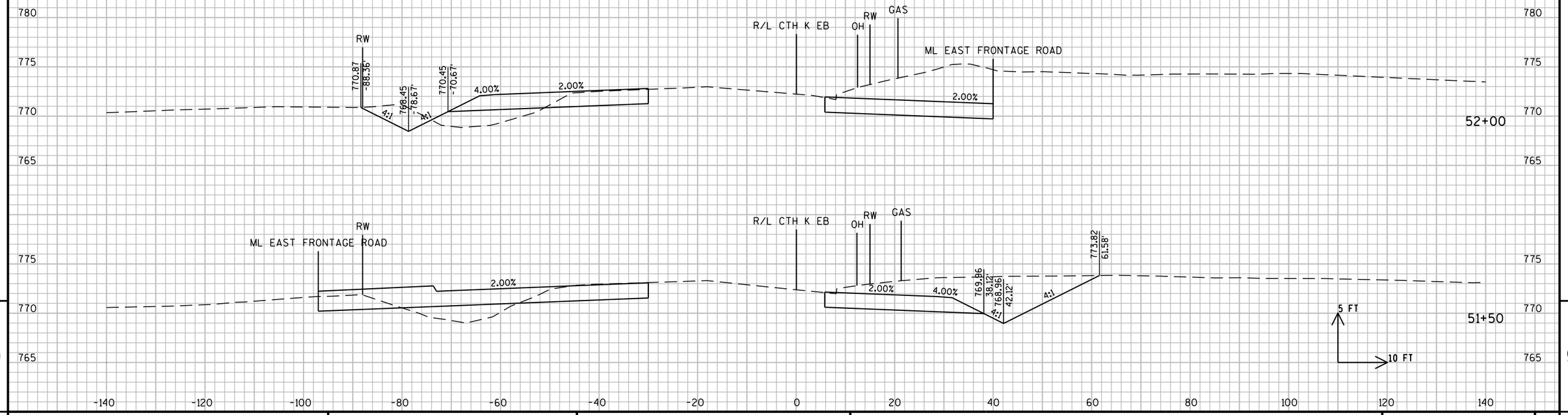
WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K - TEMPORARY WIDENING	SHEET 333 E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\090202_xs.dgn PLOT DATE : 01-AUG-2012 10:48 PLOT BY : rmakoutz PLOT NAME : 090202_xs1 PLOT SCALE : 20:1

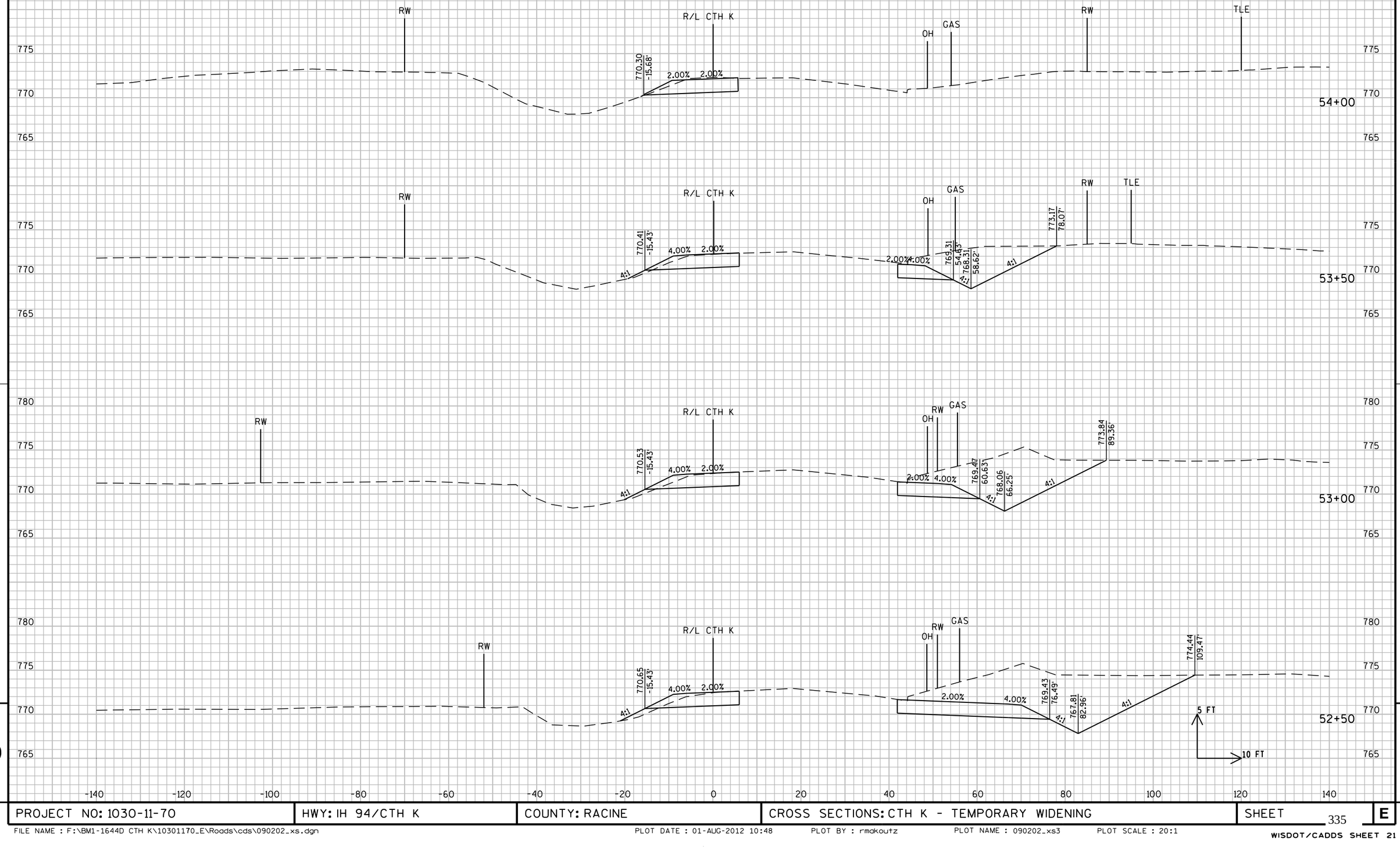
WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K - TEMPORARY WIDENING	SHEET 334	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\090202_xs.dgn PLOT DATE : 01-AUG-2012 10:48 PLOT BY : rmakoutz PLOT NAME : 090202_xs2 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K - TEMPORARY WIDENING	SHEET 335	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\090202_xs.dgn PLOT DATE : 01-AUG-2012 10:48 PLOT BY : rmakoutz PLOT NAME : 090202_xs3 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

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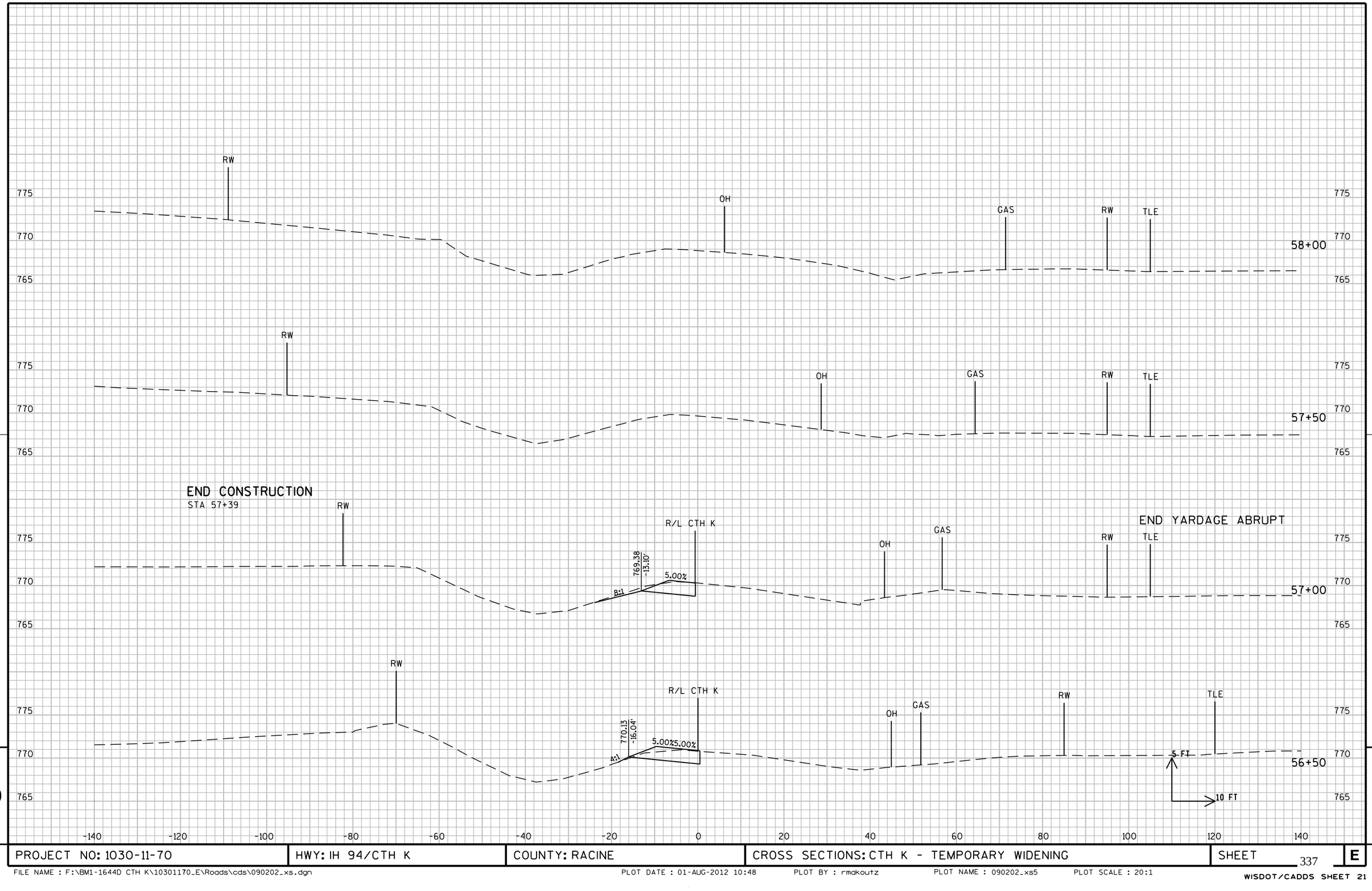


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PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K - TEMPORARY WIDENING	SHEET 336 E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\090202_xs.dgn PLOT DATE : 01-AUG-2012 10:48 PLOT BY : rmakoutz PLOT NAME : 090202_xs4 PLOT SCALE : 20:1

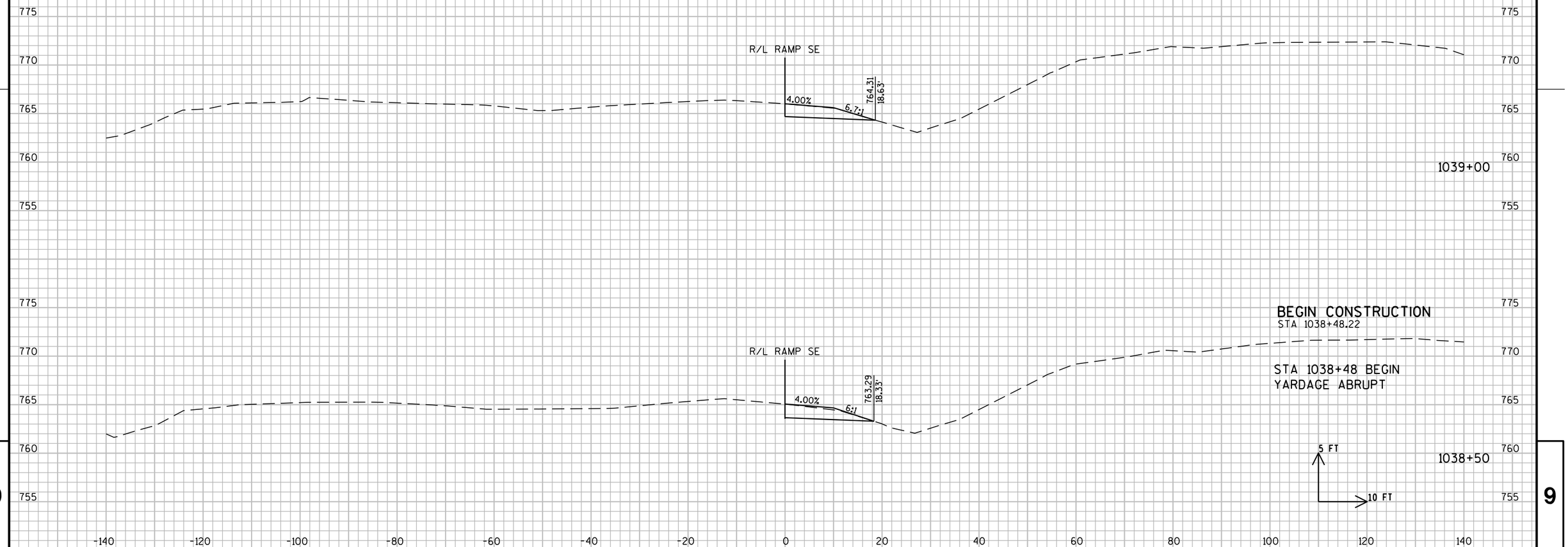
WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K - TEMPORARY WIDENING	SHEET 337	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\090202_xs.dgn PLOT DATE : 01-AUG-2012 10:48 PLOT BY : rmakoutz PLOT NAME : 090202_xs5 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

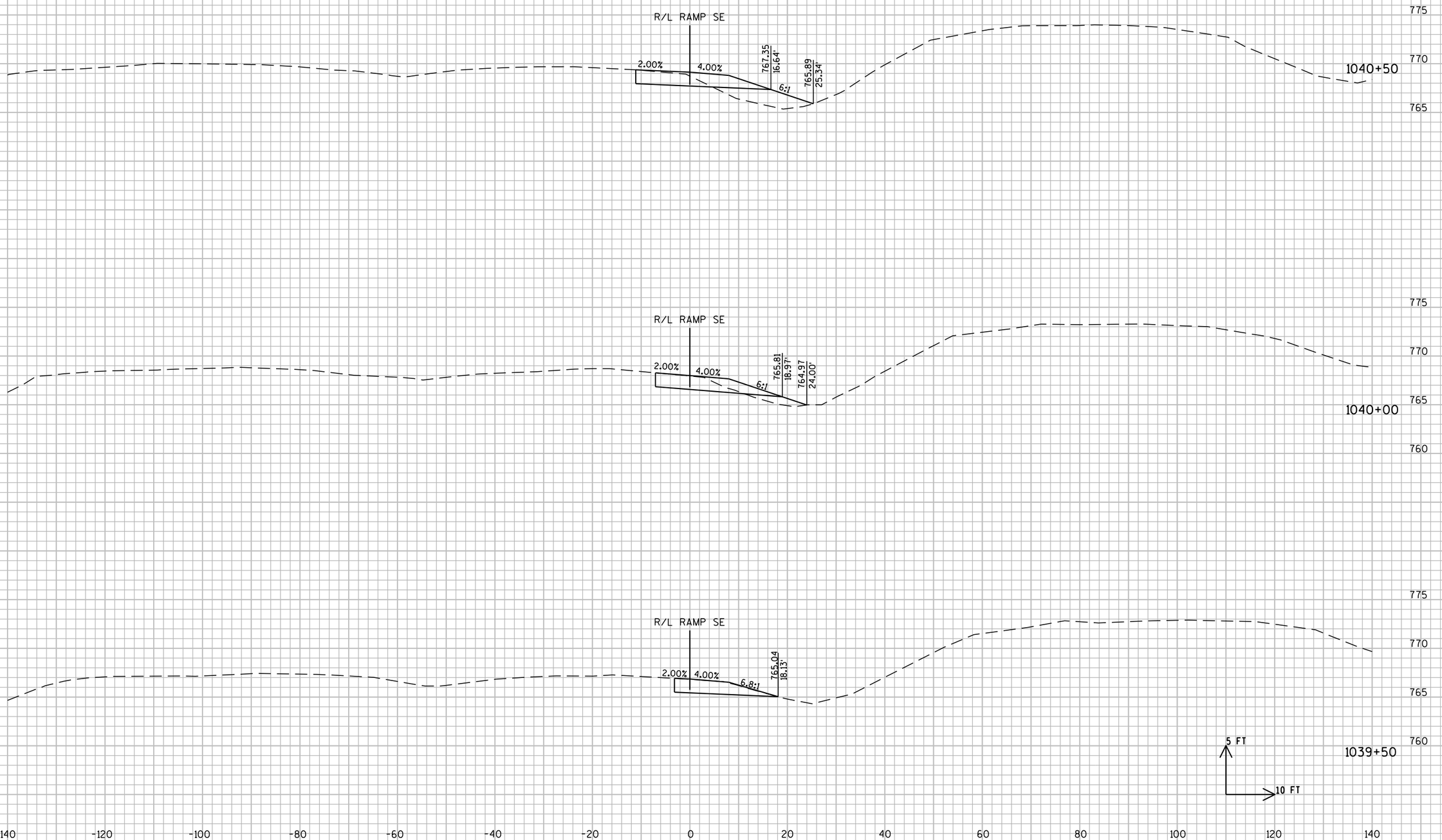


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PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: RAMP SE	SHEET 338 E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\090203_xs.dgn PLOT DATE : 01-AUG-2012 10:48 PLOT BY : rmakoutz PLOT NAME : 090203_xs PLOT SCALE : 20:1

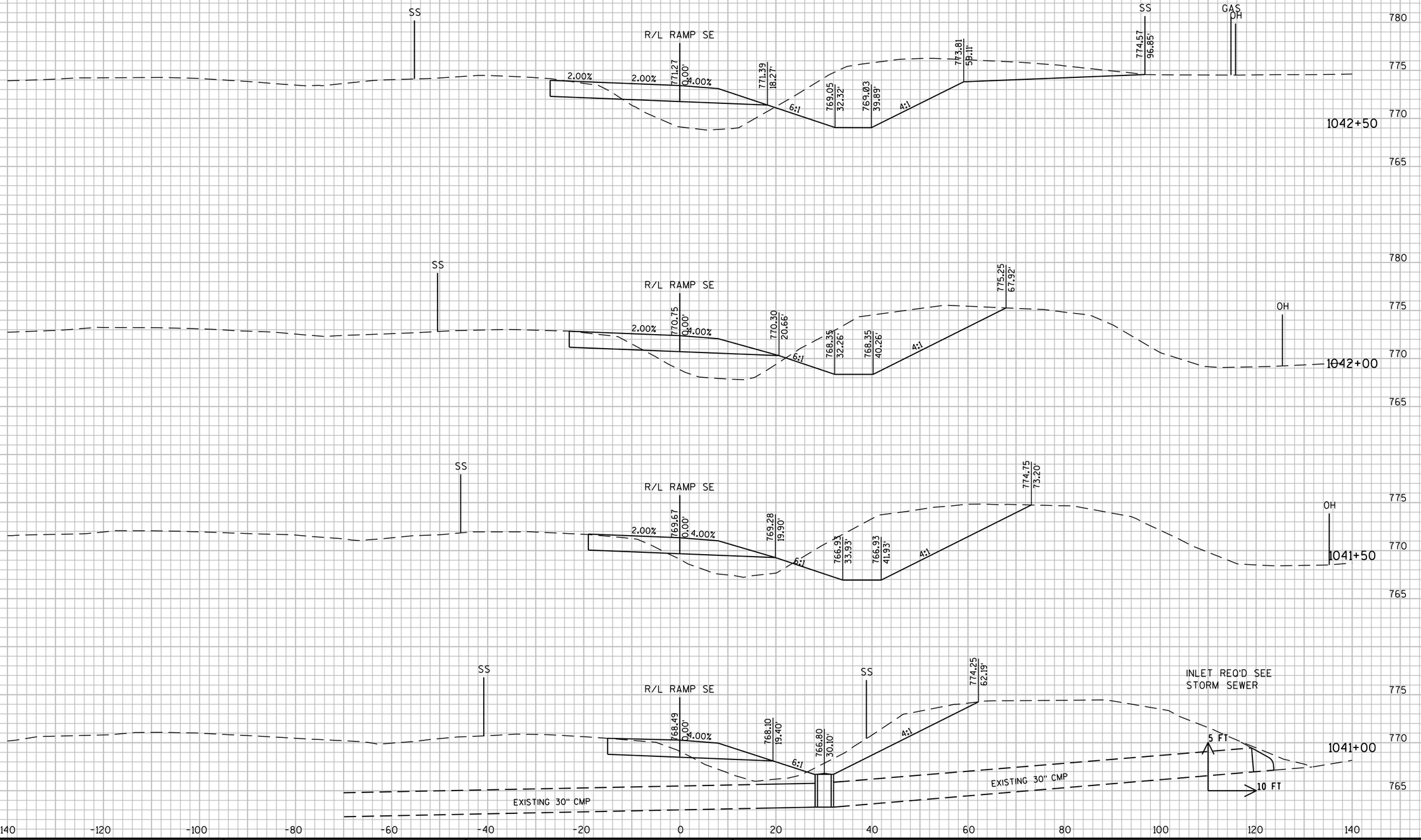
WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: RAMP SE	SHEET 339	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\090203_xs.dgn PLOT DATE : 01-AUG-2012 10:48 PLOT BY : rmakoutz PLOT NAME : 090203_xs1 PLOT SCALE : 20:1

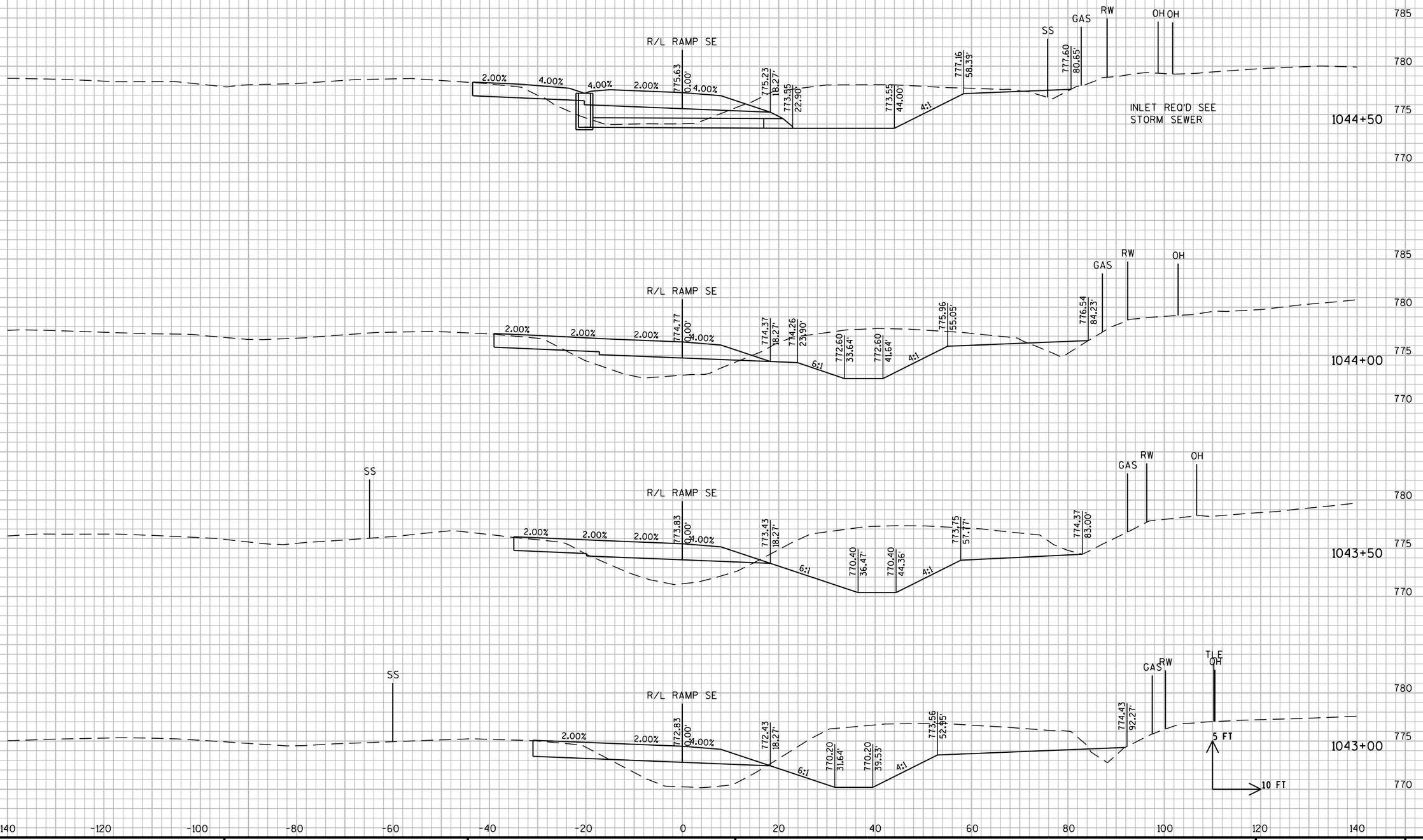
WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: RAMP SE	SHEET 340 E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\090203_xs.dgn PLOT DATE : 01-AUG-2012 10:48 PLOT BY : rmakoutz PLOT NAME : 090203_xs2 PLOT SCALE : 20:1

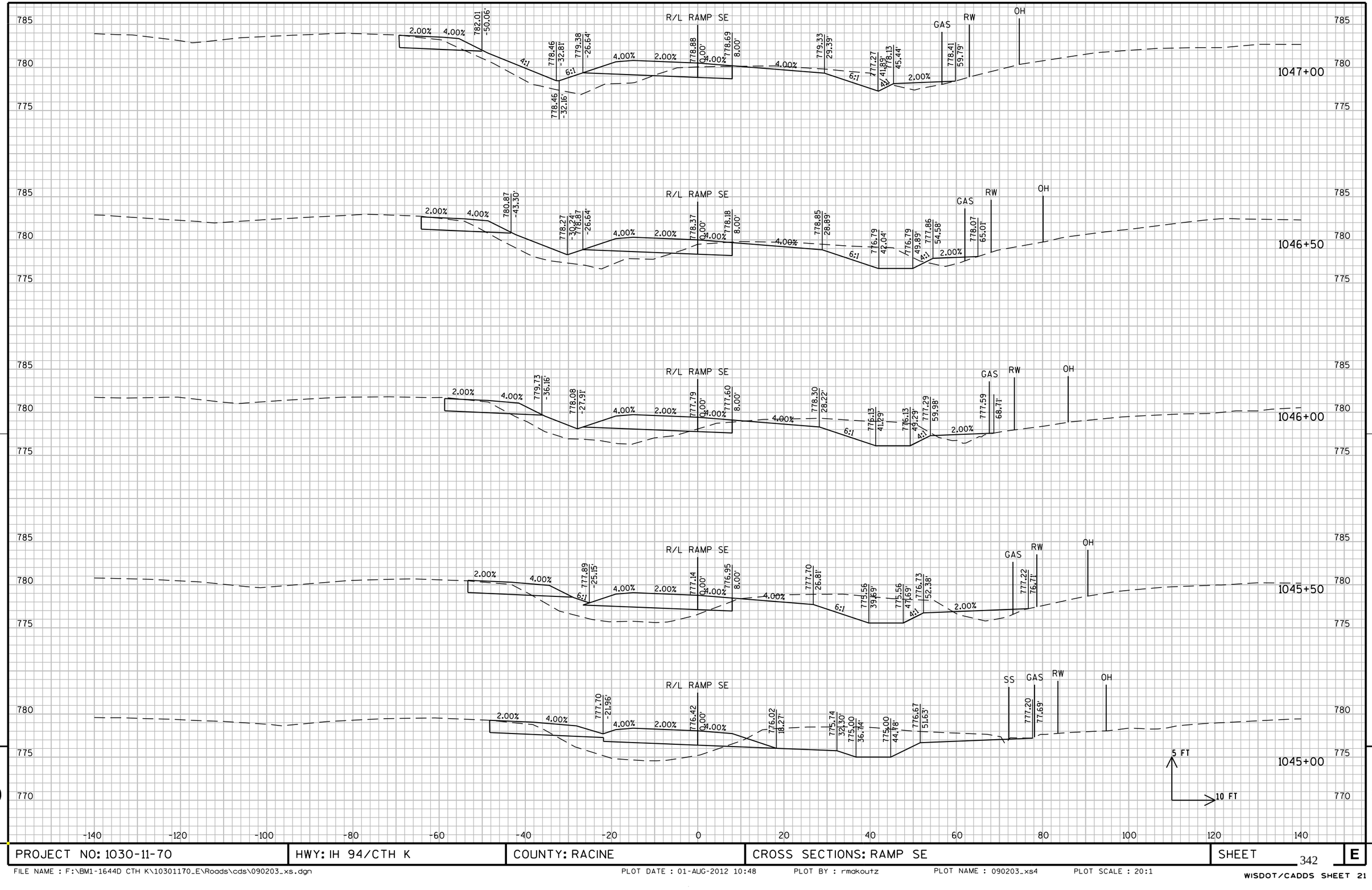
WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: RAMP SE	SHEET 341	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\090203_xs.dgn PLOT DATE : 01-AUG-2012 10:48 PLOT BY : rmakoutz PLOT NAME : 090203_xs3 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



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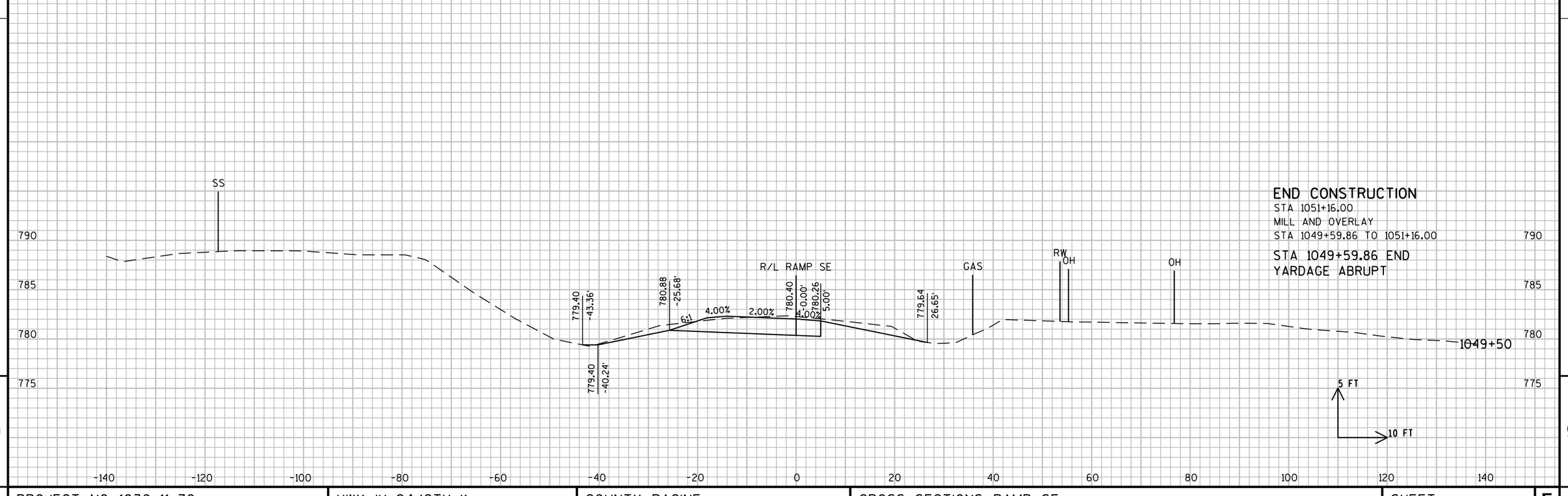
PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: RAMP SE	SHEET 342	E



PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: RAMP SE	SHEET 343	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\090203_xs.dgn PLOT DATE : 01-AUG-2012 10:48 PLOT BY : rmakoutz PLOT NAME : 090203_xs5 PLOT SCALE : 20:1

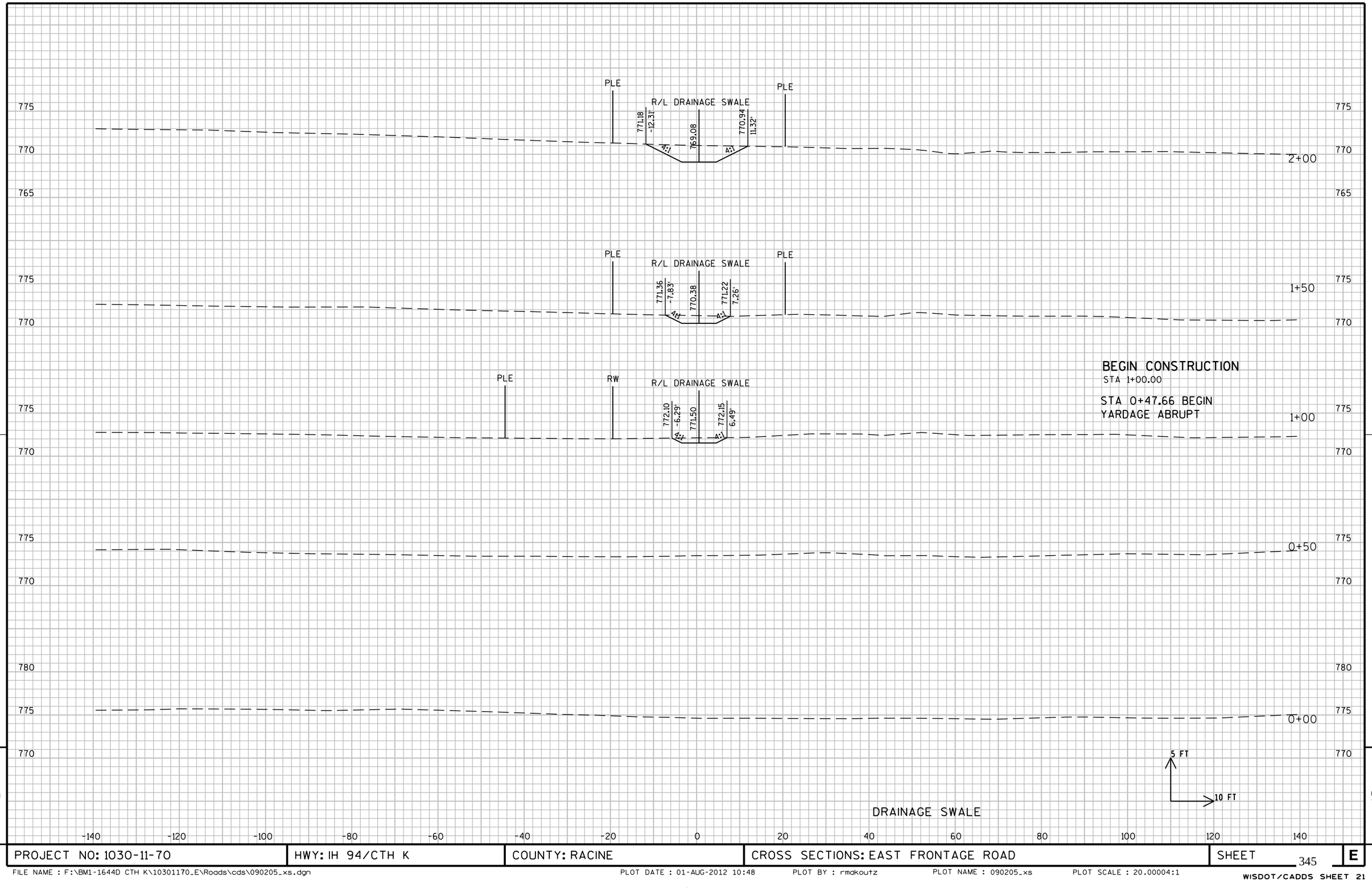
WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: RAMP SE	SHEET 344	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\090203_xs.dgn PLOT DATE : 01-AUG-2012 10:48 PLOT BY : rmakoutz PLOT NAME : 090203_xs6 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



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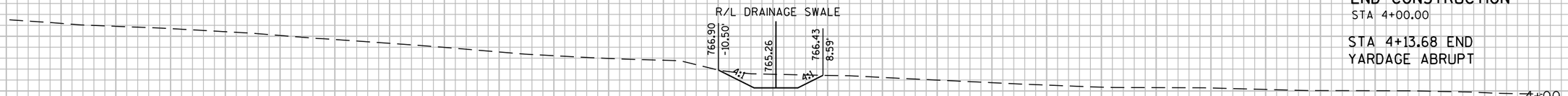
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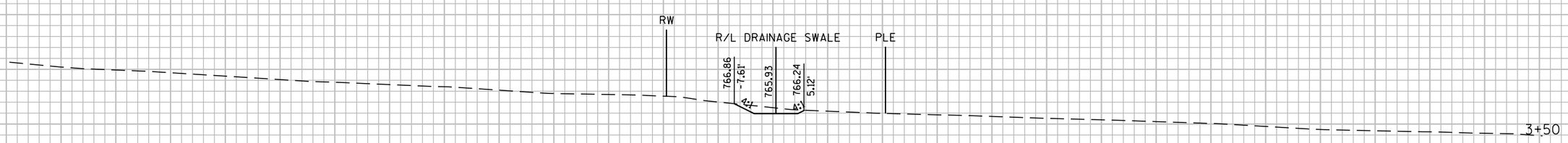
PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 345	E

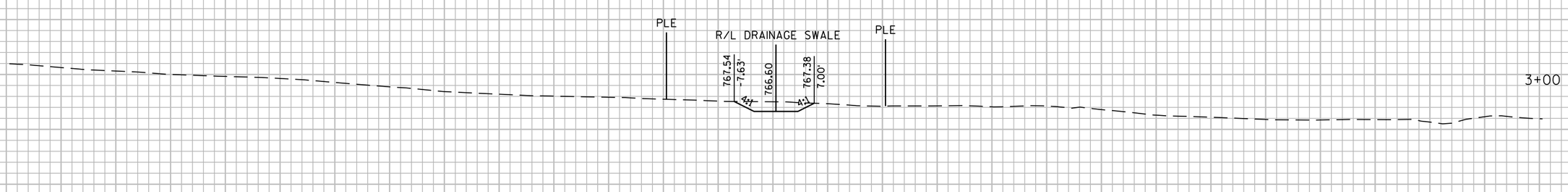
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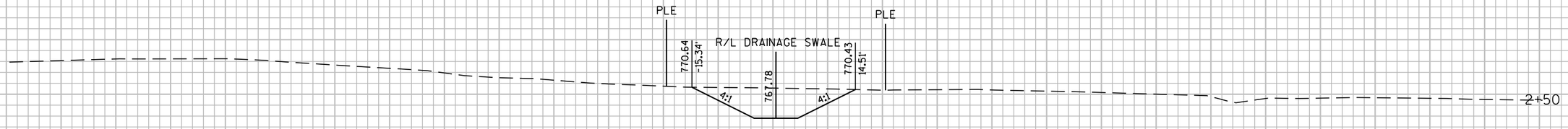
END CONSTRUCTION
STA 4+00.00

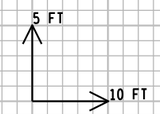
STA 4+13.68 END
YARDAGE ABRUPT







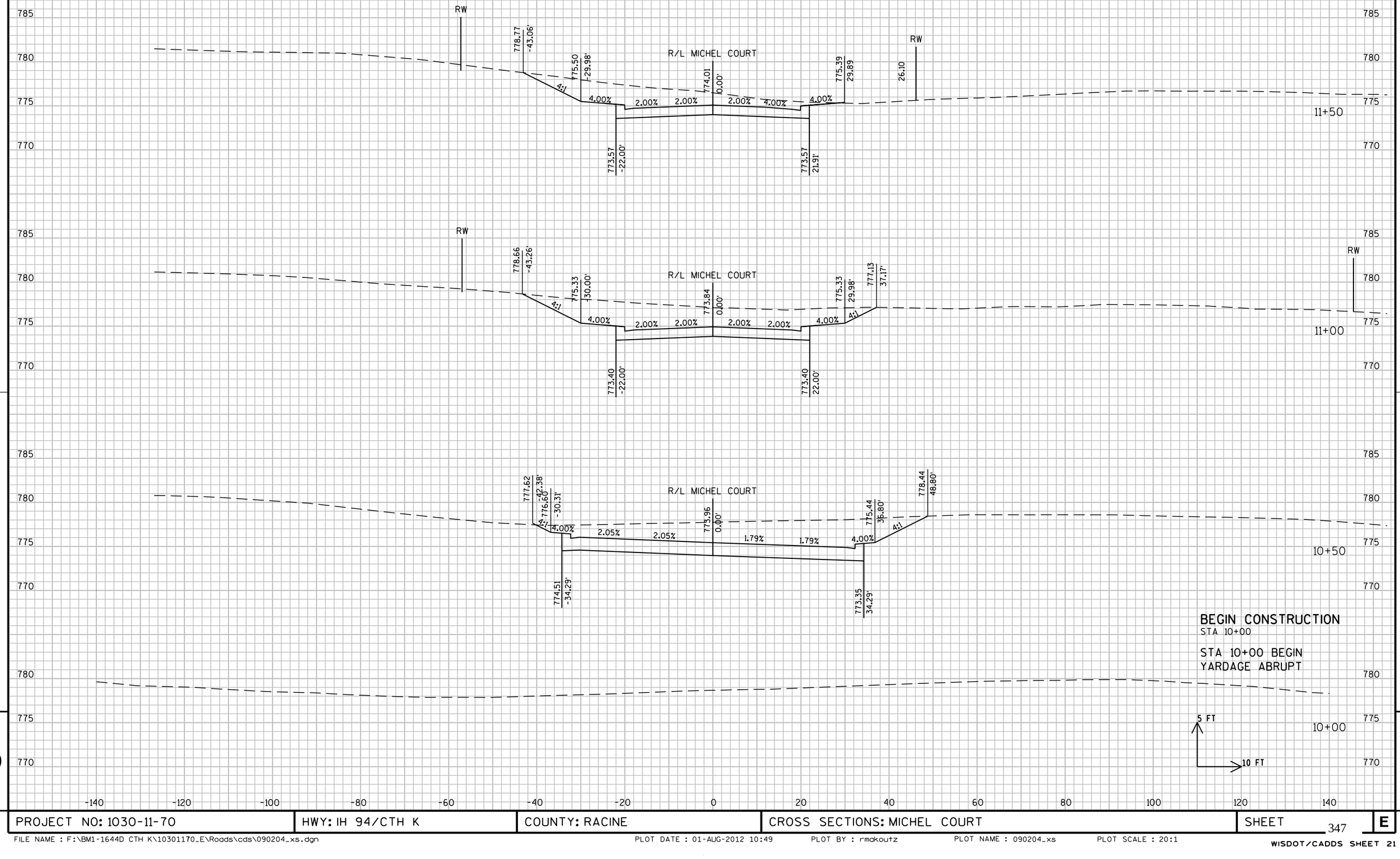




DRAINAGE SWALE

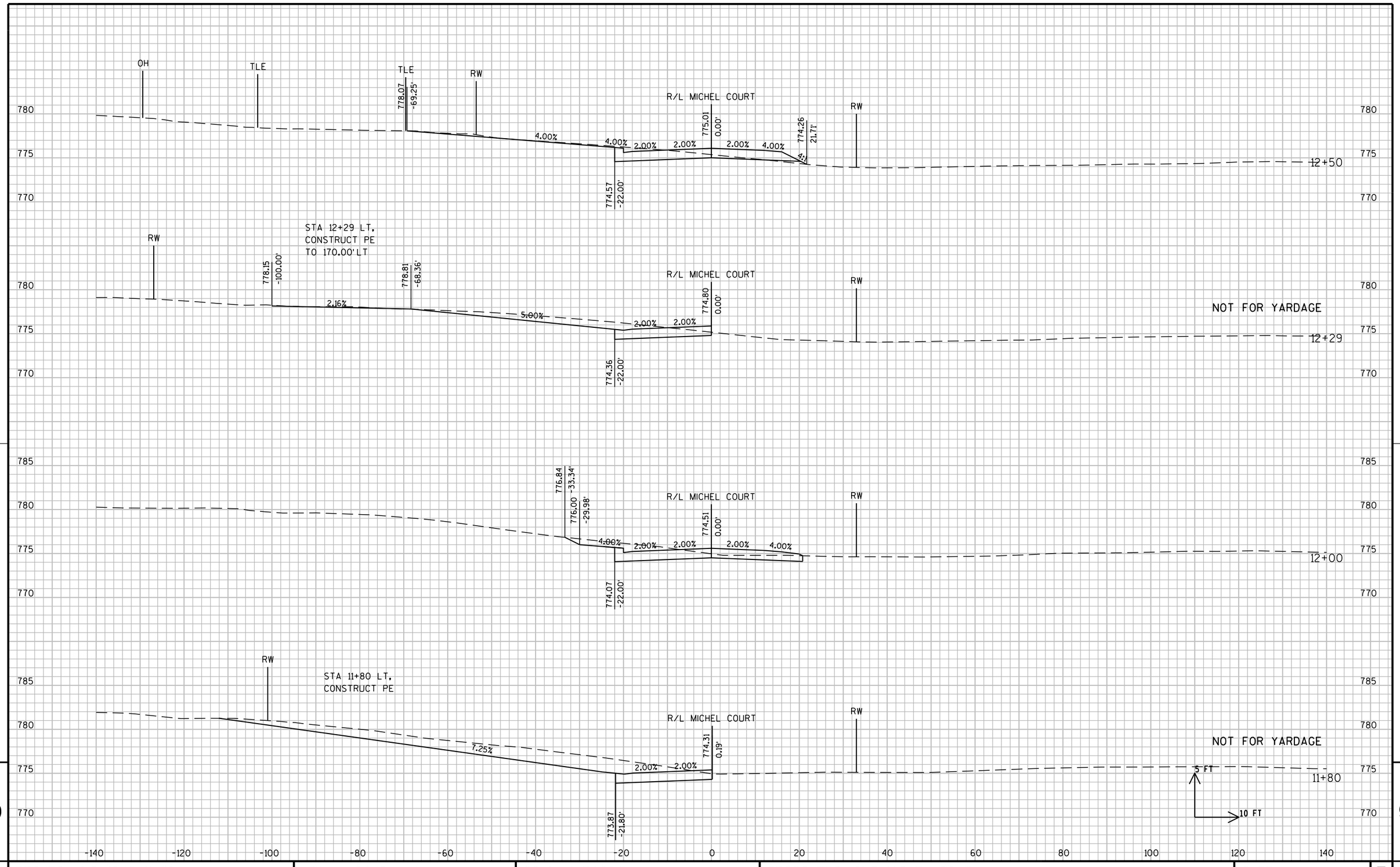
-140 -120 -100 -80 -60 -40 -20 0 20 40 60 80 100 120 140

PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 346	E

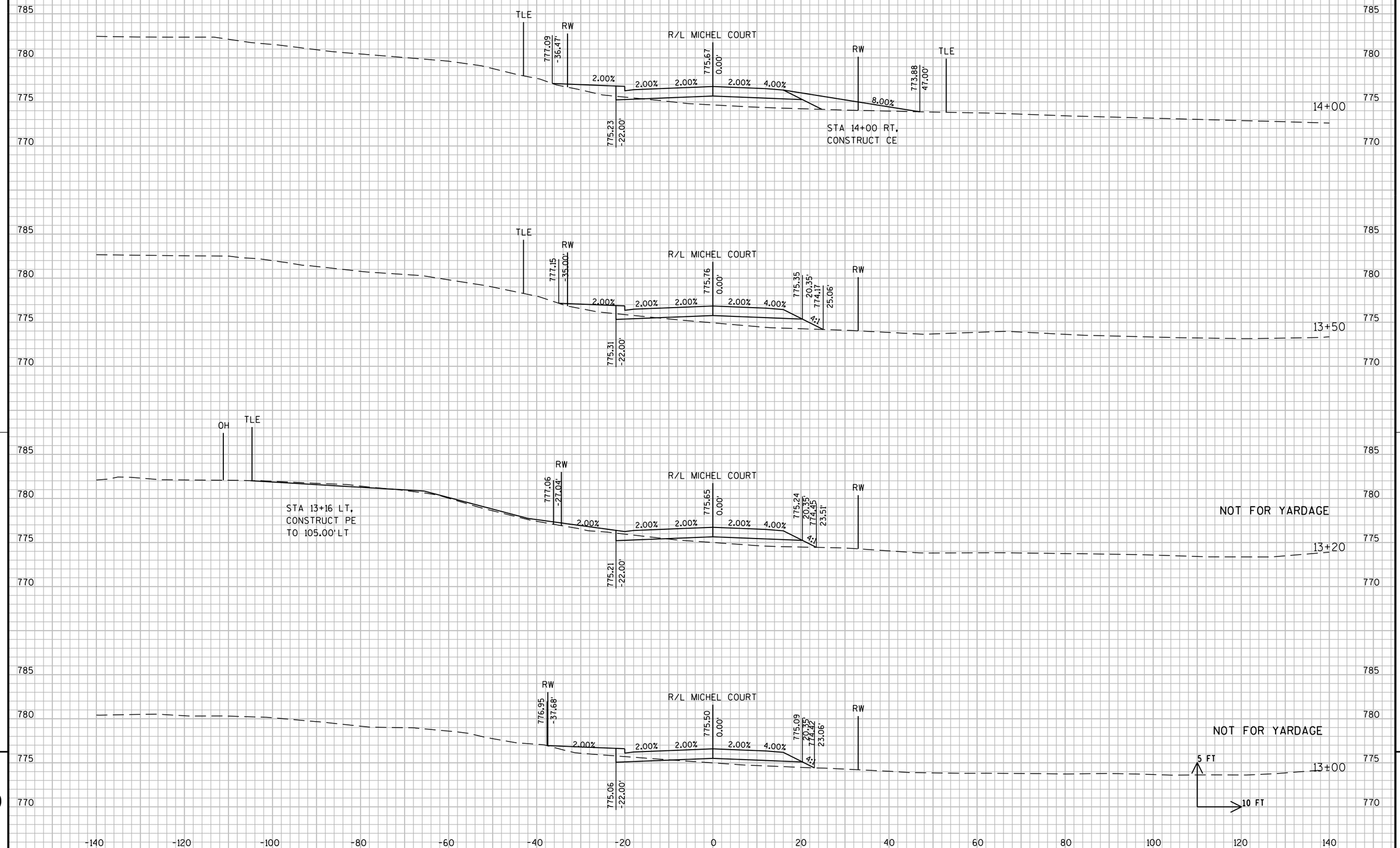


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PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: MICHEL COURT	SHEET 347	E



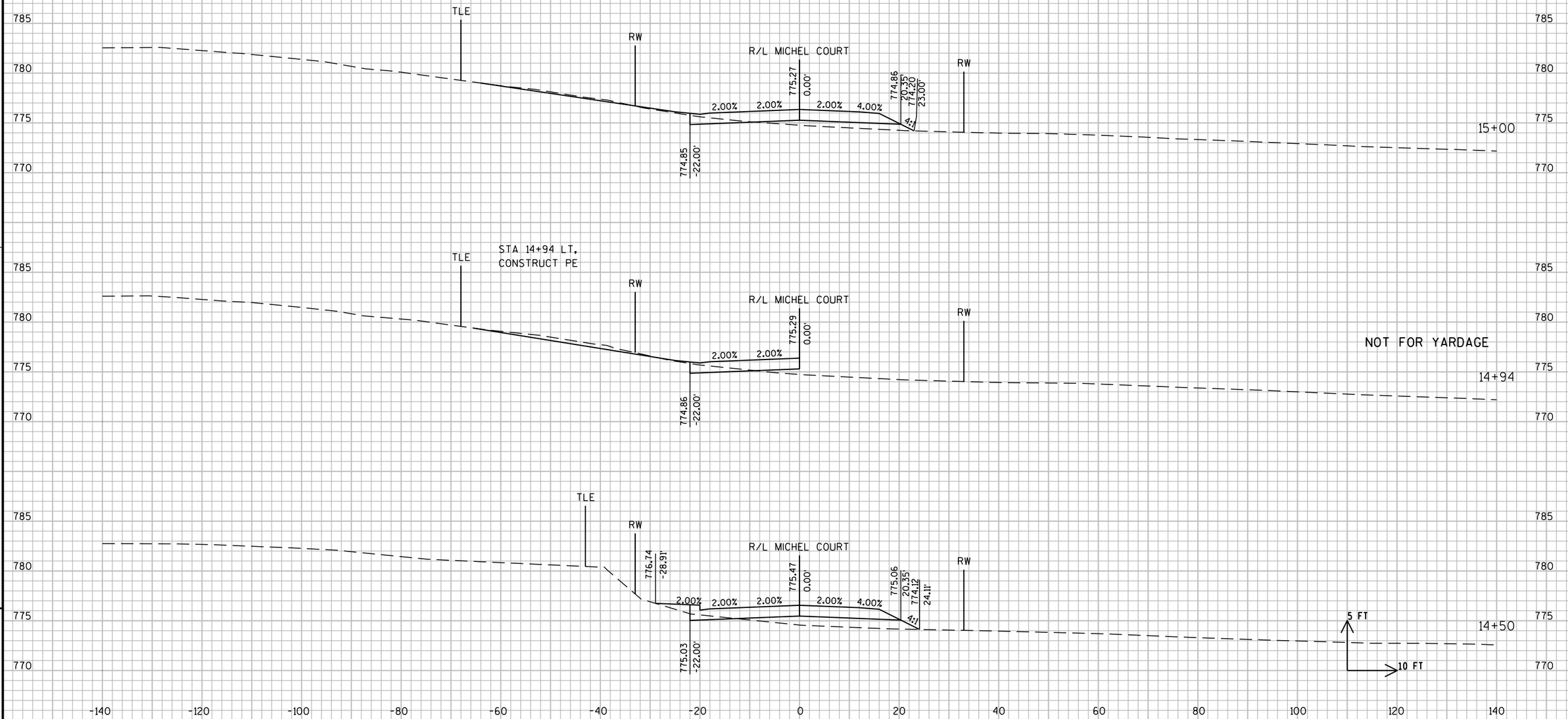
PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: MICHEL COURT	SHEET 348	E



PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: MICHEL COURT	SHEET 349	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\090204_xs.dgn PLOT DATE : 01-AUG-2012 10:49 PLOT BY : rmakoutz PLOT NAME : 090204_xs2 PLOT SCALE : 20:1

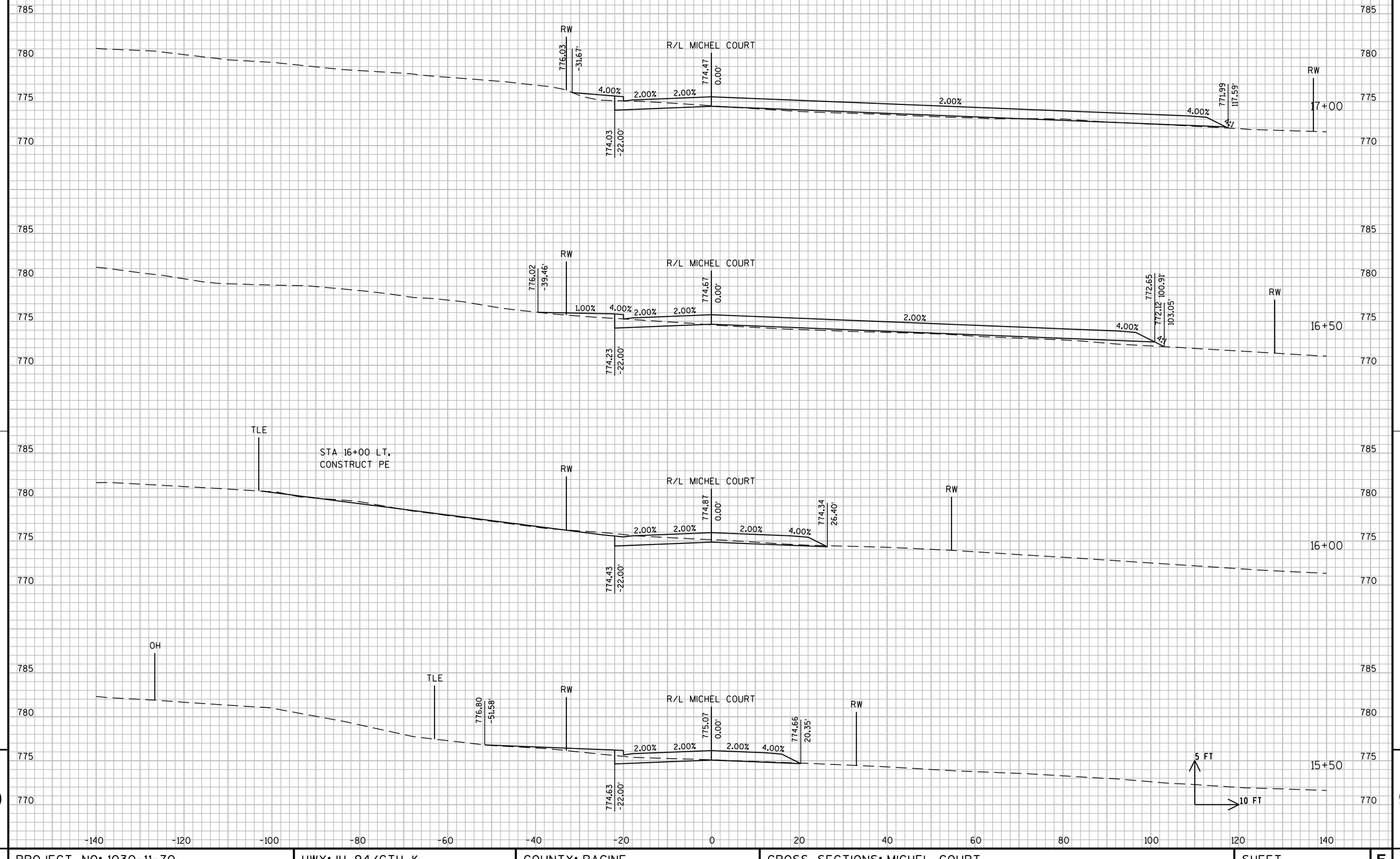
WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: MICHEL COURT	SHEET 350	E

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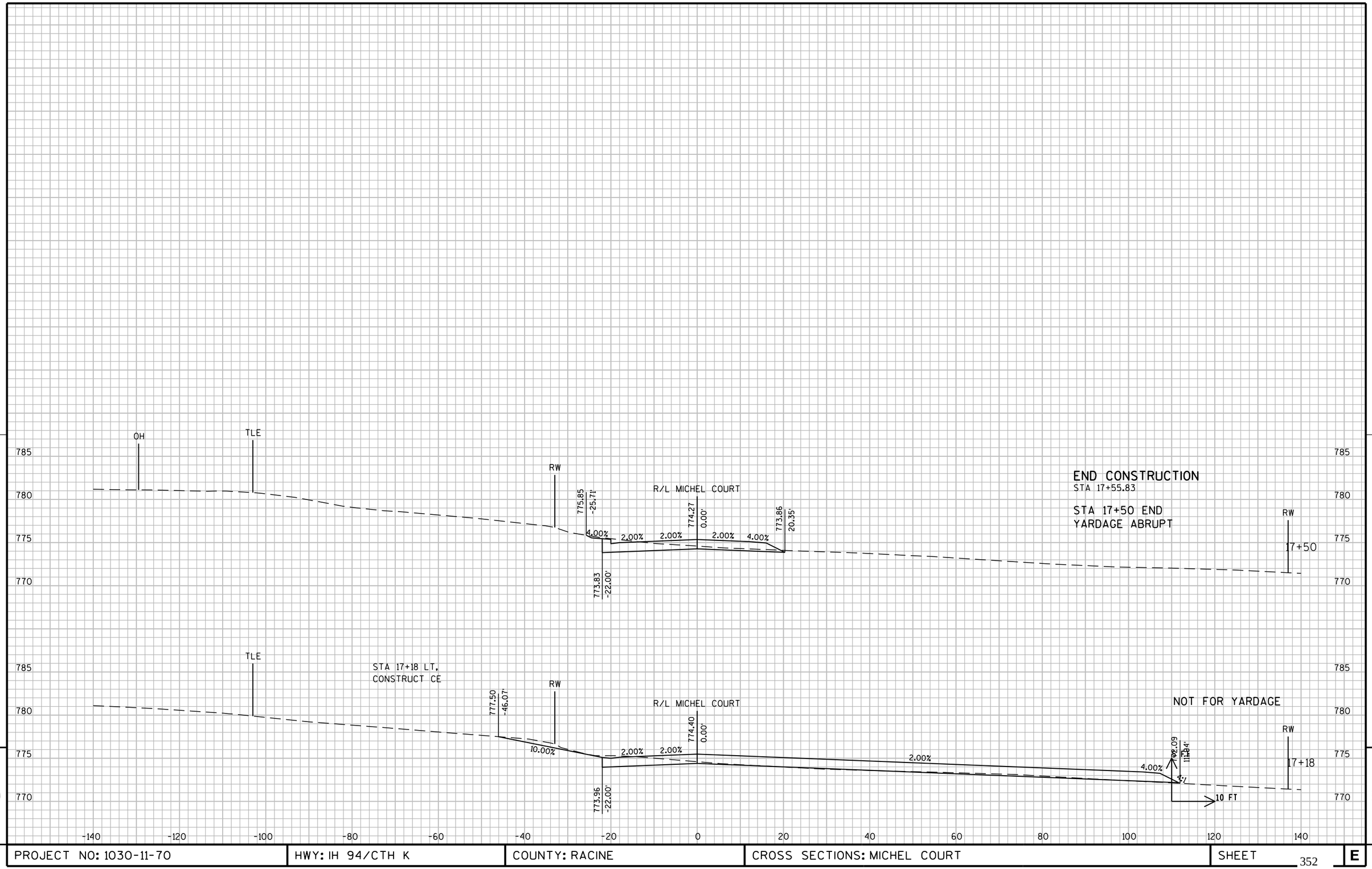
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PLOT BY : rmakoutz
PLOT NAME : 090204_xs3
PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: MICHEL COURT	SHEET 351	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\090204_xs.dgn PLOT DATE : 01-AUG-2012 10:49 PLOT BY : rmakoutz PLOT NAME : 090204_xs4 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

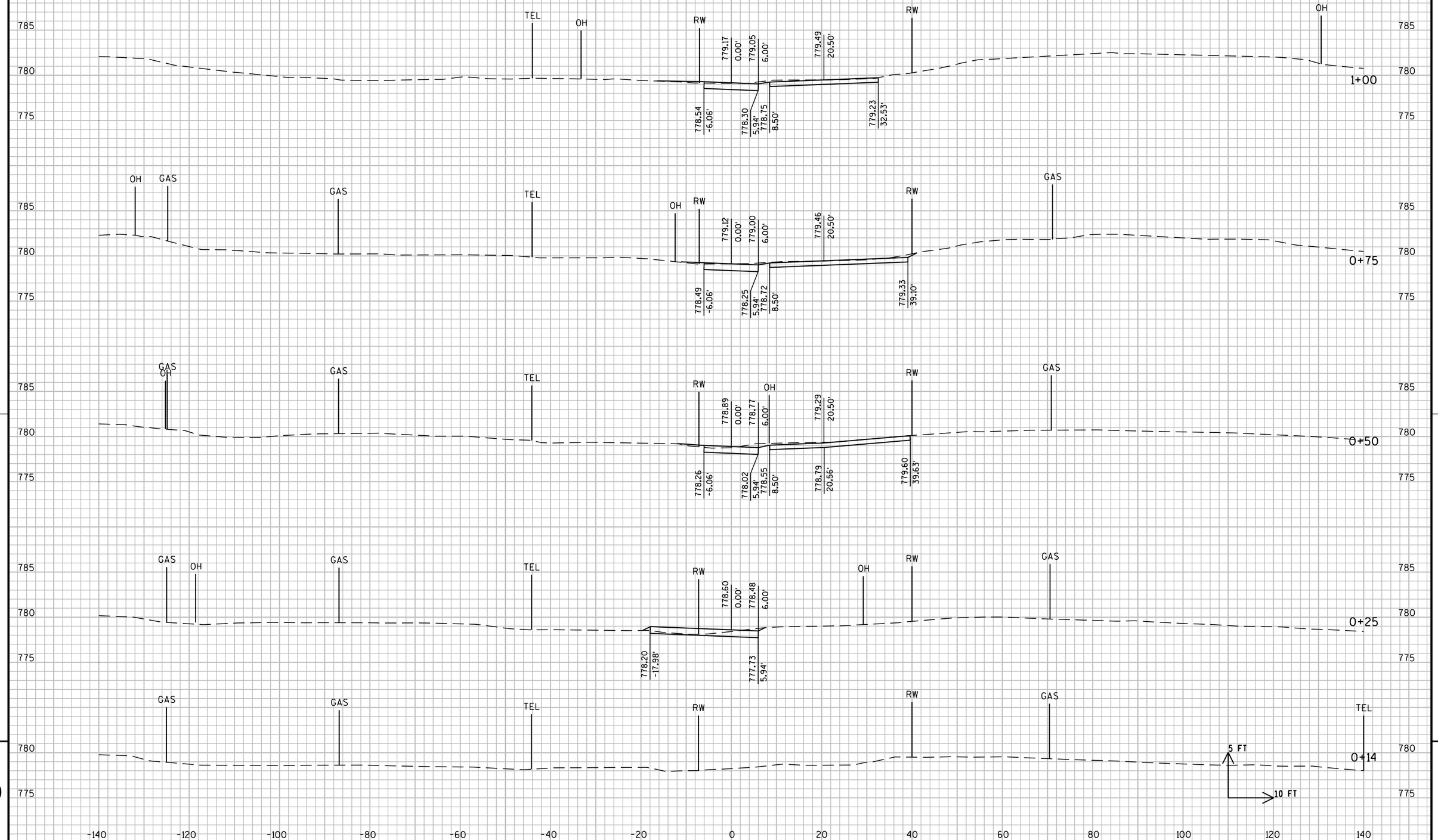


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PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: MICHEL COURT	SHEET 352	E

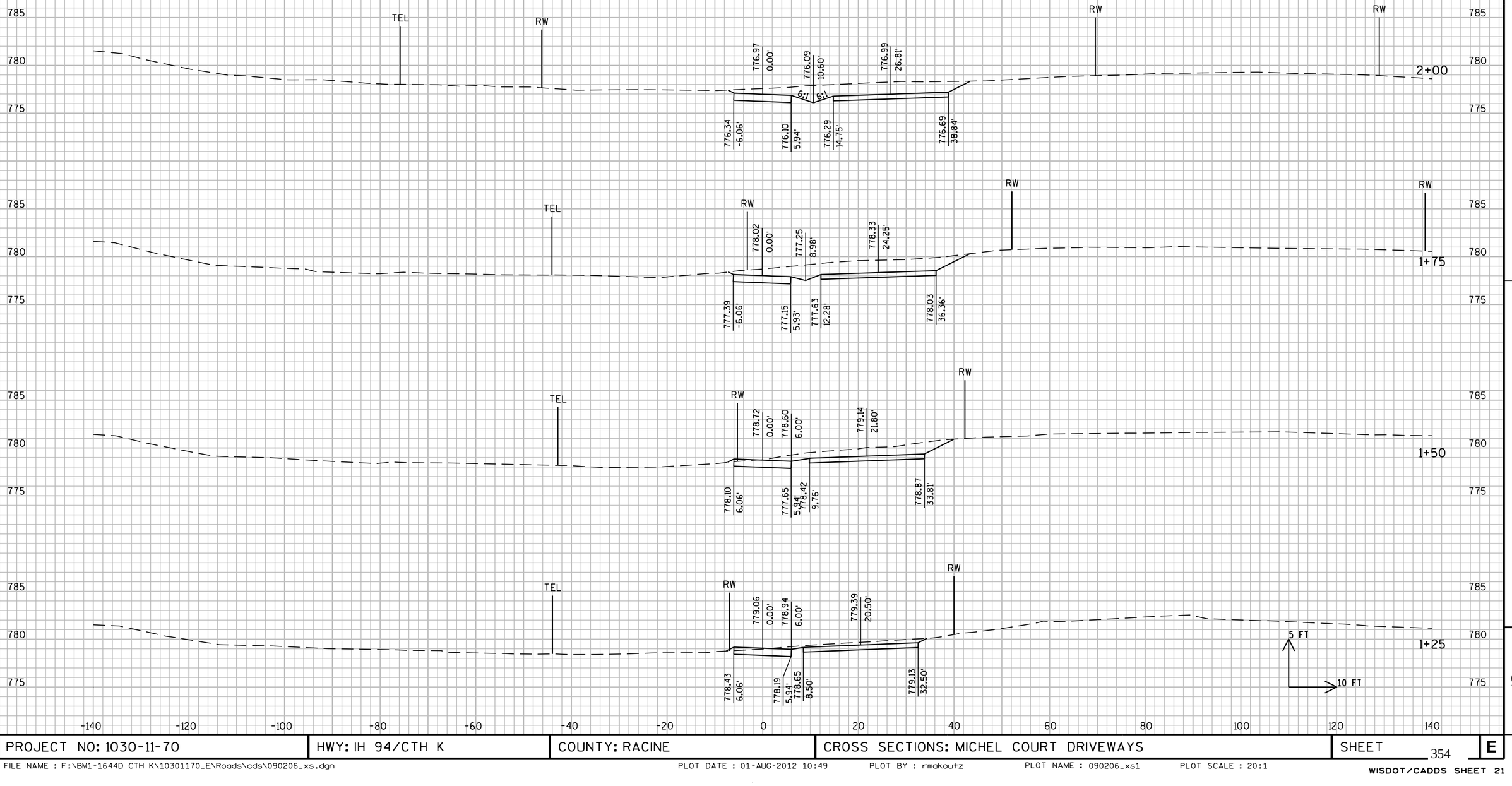
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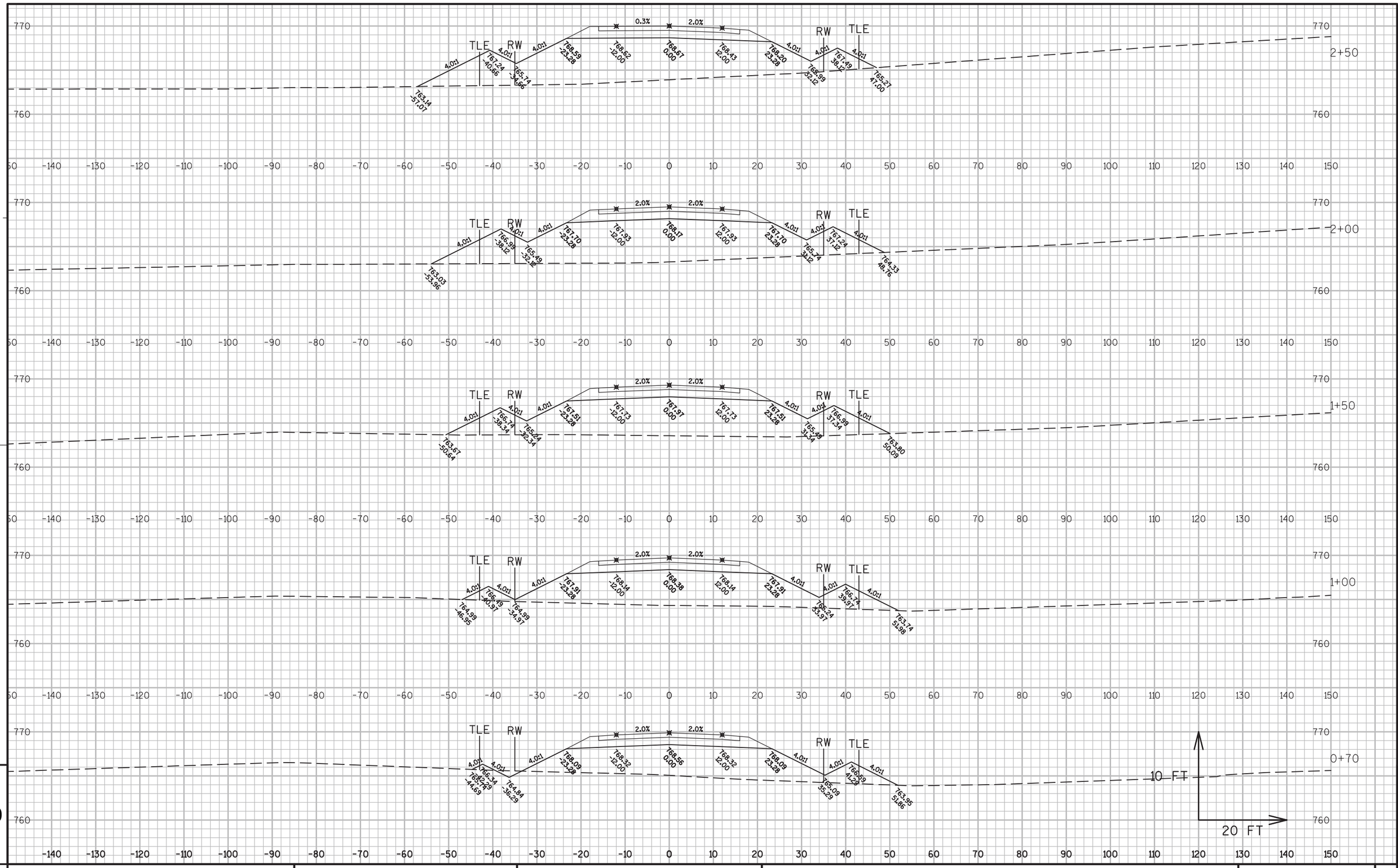
PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: MICHEL COURT DRIVEWAYS	SHEET 353	E

FILE NAME : F:\BM1-1644D CTH K\10301170_E\Roads\cds\090206_xs.dgn PLOT DATE : 01-AUG-2012 10:49 PLOT BY : rmakoutz PLOT NAME : 090206_xs PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-70	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: MICHEL COURT DRIVEWAYS	SHEET 354	E

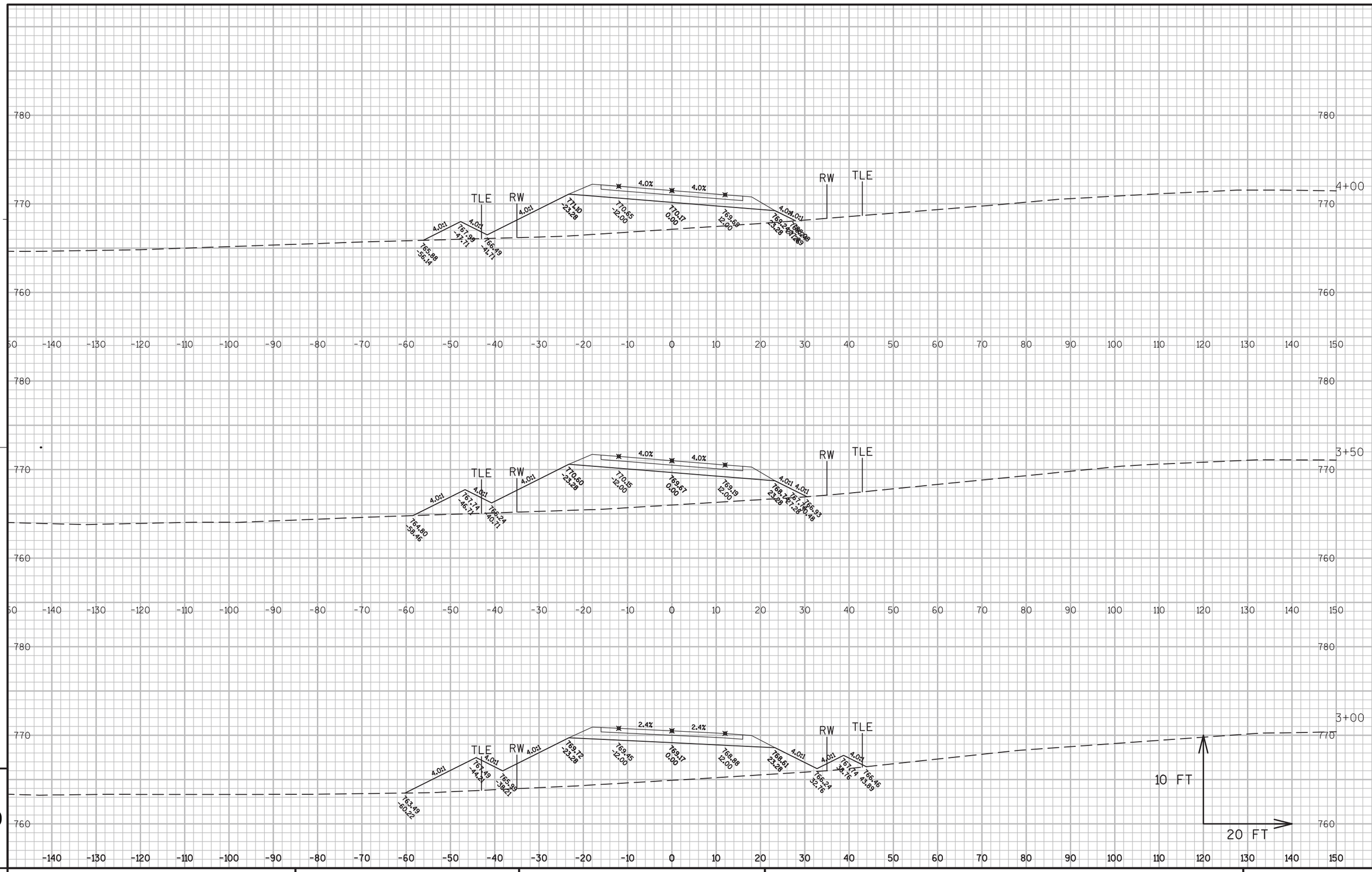


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PROJECT NO: 1030-11-00	HWY: CTH K	COUNTY: RACINE	CROSS SECTIONS: A&W ACCESS ROAD	SHEET 354A	E

FILE NAME : N:\SEF\N-S\03-DESIGN\1030-11-00\C3D\10301100\SHEETSPLAN\090201_XS.DWG PLOT DATE : 5/29/2013 3:27 PM PLOT BY : MISUN, MARK C PLOT NAME : PLOT SCALE : 1:20_XREF

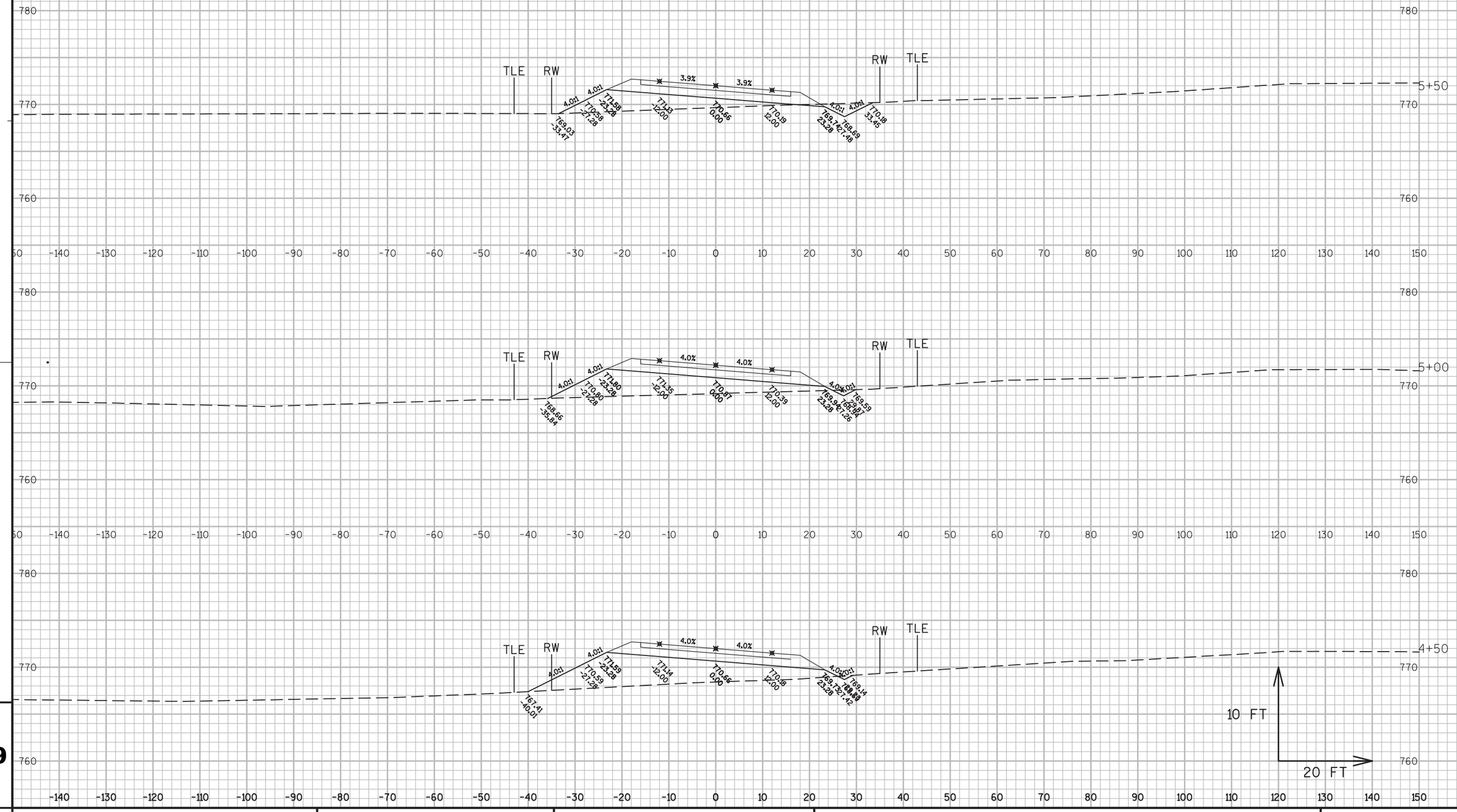
WISDOT/CADDS SHEET 49



PROJECT NO: 1030-11-00	HWY: CTH K	COUNTY: RACINE	CROSS SECTIONS: A&W ACCESS ROAD	SHEET 354B	E

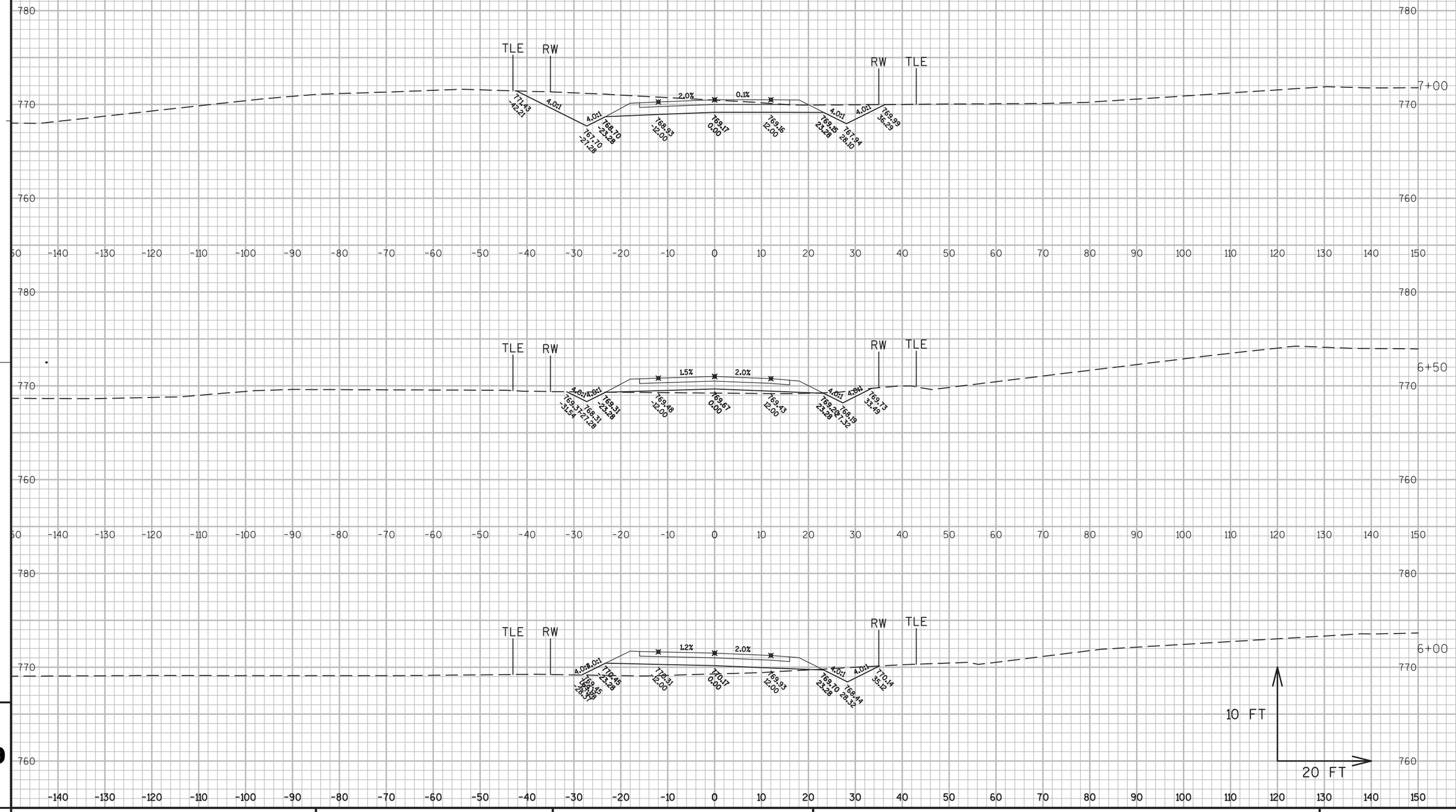
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WISDOT/CADDS SHEET 49

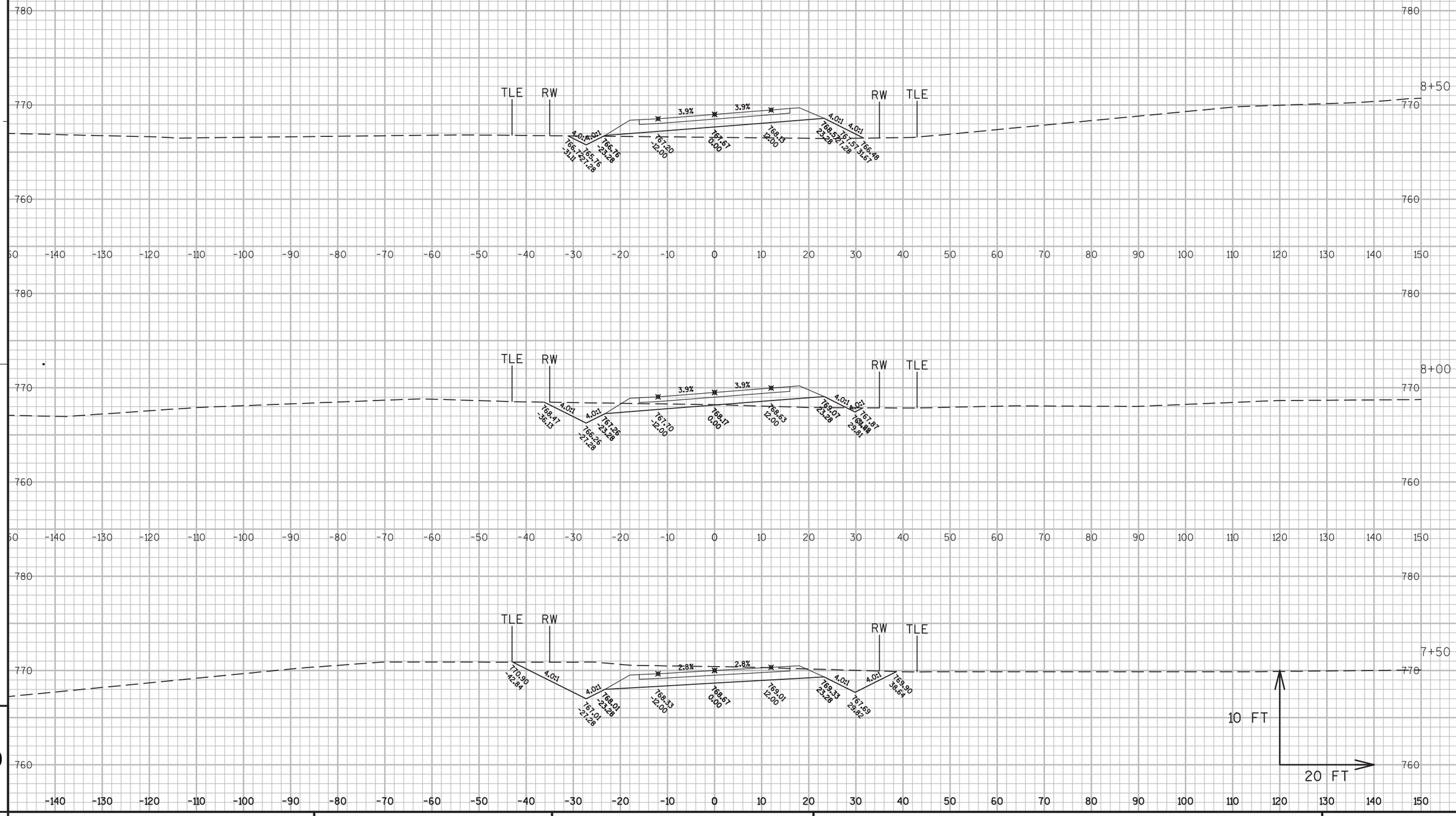


PROJECT NO: 1030-11-00	HWY: CTH K	COUNTY: RACINE	CROSS SECTIONS: A&W ACCESS ROAD	SHEET 354C	E

FILE NAME : N:\SEF\N-S\03-DESIGN\1030-11-00\C3D\10301100\SHEETSPLAN\090201_XS.DWG PLOT DATE : 5/29/2013 3:28 PM PLOT BY : MISUN, MARK C PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1030-11-00	HWY: CTH K	COUNTY: RACINE	CROSS SECTIONS: A&W ACCESS ROAD	SHEET 354D	E



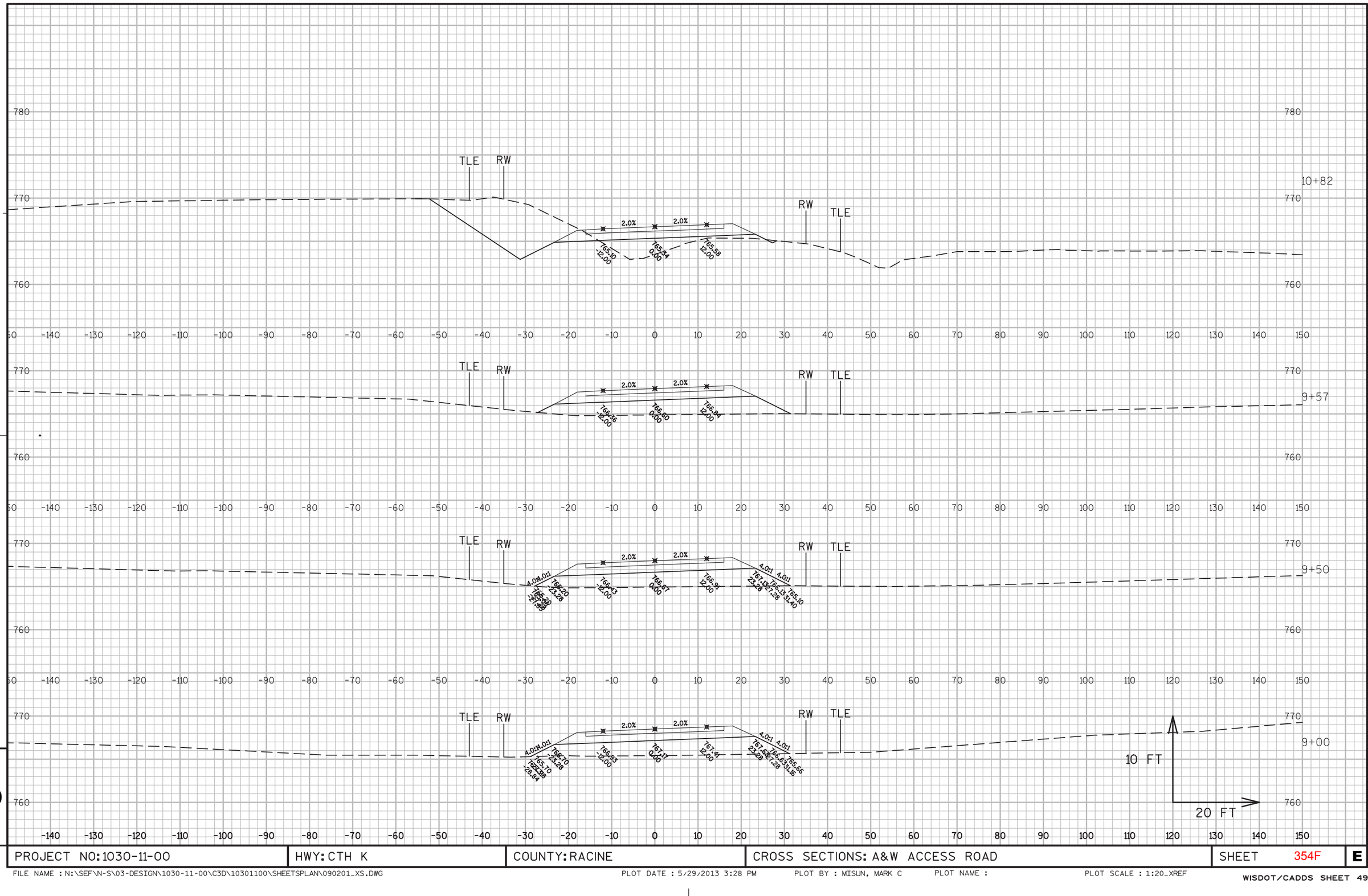
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PROJECT NO: 1030-11-00	HWY: CTH K	COUNTY: RACINE	CROSS SECTIONS: A&W ACCESS ROAD	SHEET 354E	E

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WISDOT/CADDS SHEET 49



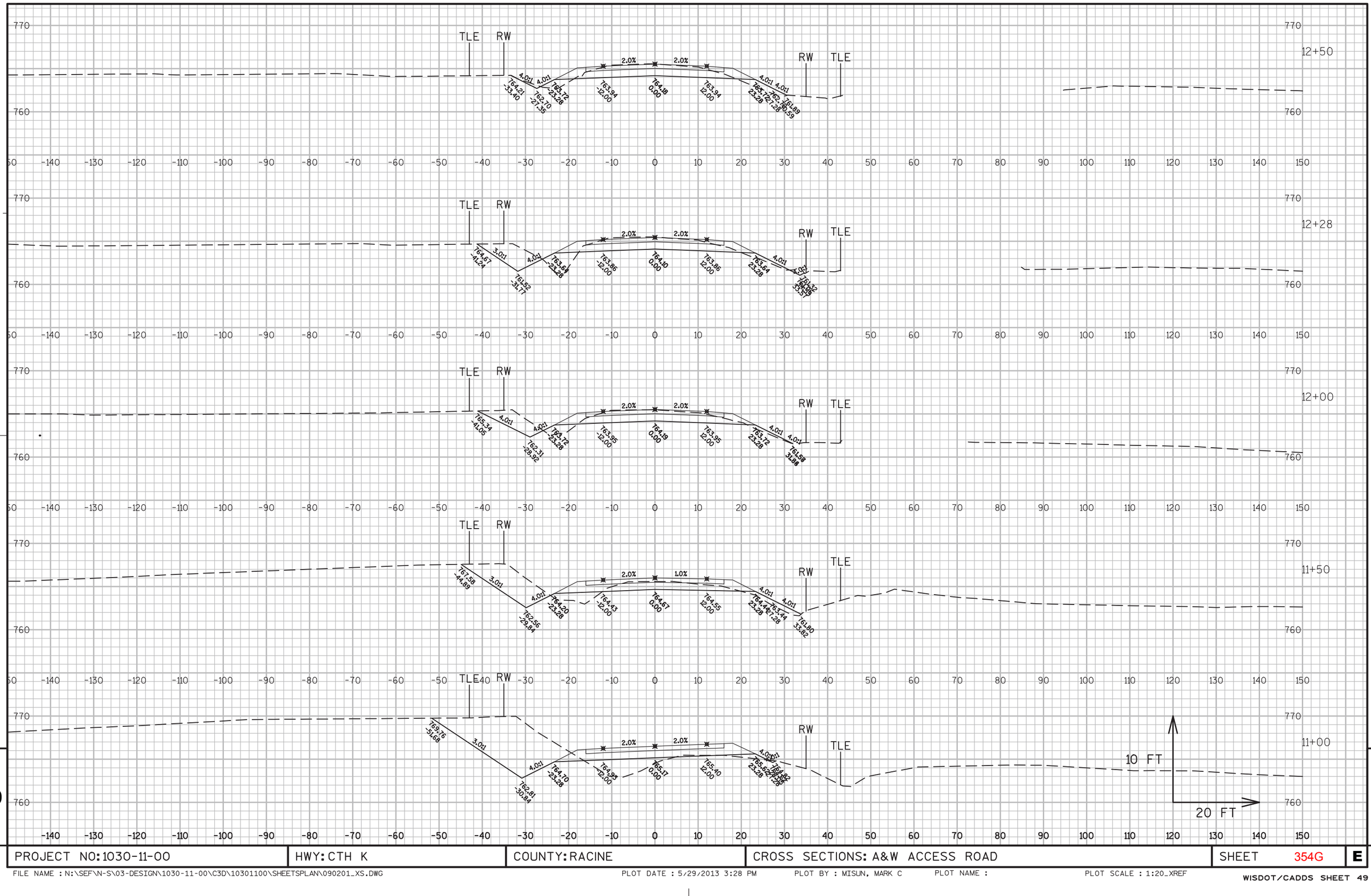
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PROJECT NO: 1030-11-00	HWY: CTH K	COUNTY: RACINE	CROSS SECTIONS: A&W ACCESS ROAD	SHEET 354F	E

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WISDOT/CADDS SHEET 49



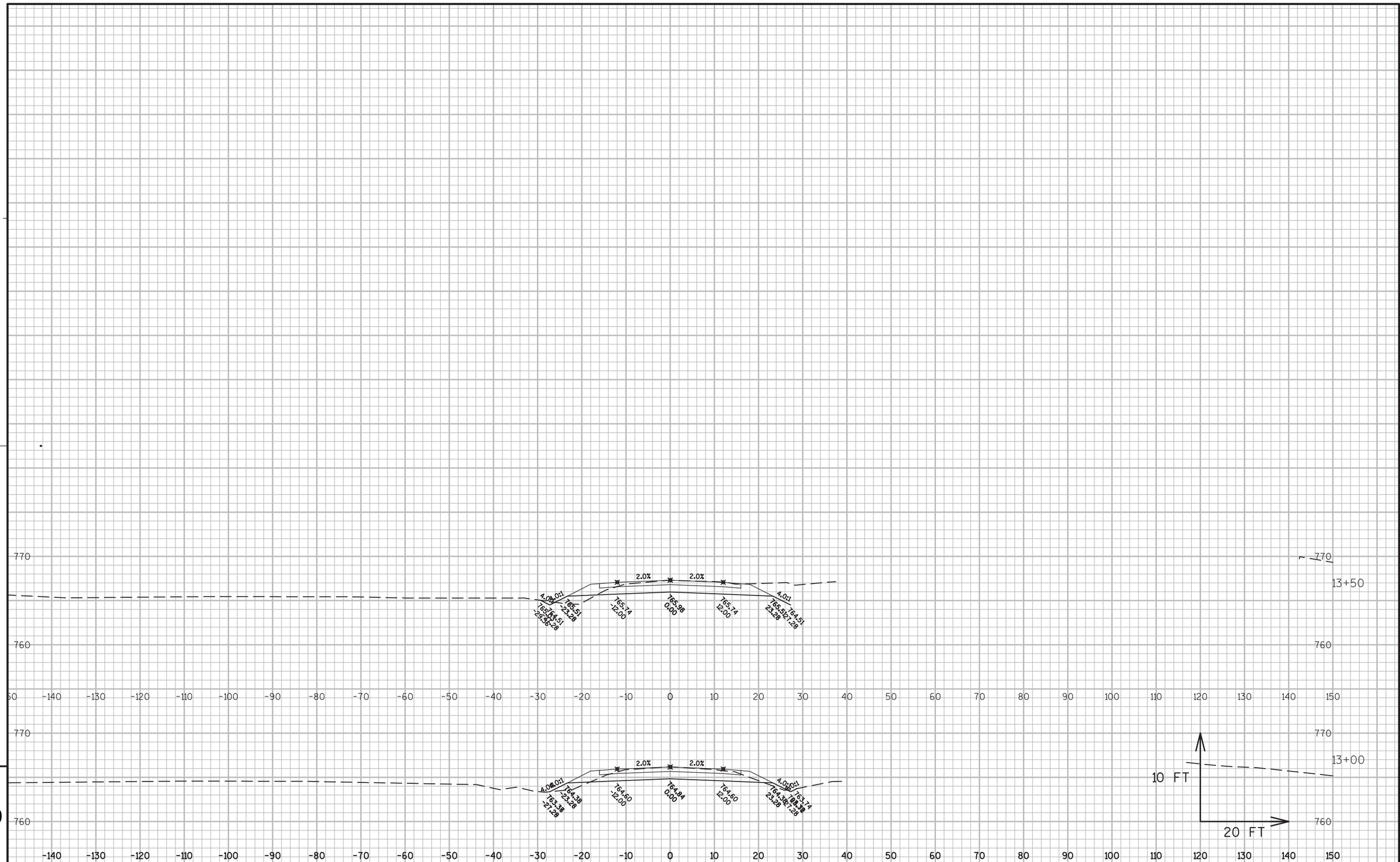
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PROJECT NO: 1030-11-00	HWY: CTH K	COUNTY: RACINE	CROSS SECTIONS: A&W ACCESS ROAD	SHEET 354G	E

FILE NAME : N:\SEF\N-S\03-DESIGN\1030-11-00\C3D\10301100\SHEETSPLAN\090201_XS.DWG PLOT DATE : 5/29/2013 3:28 PM PLOT BY : MISUN, MARK C PLOT NAME : PLOT SCALE : 1:20_XREF

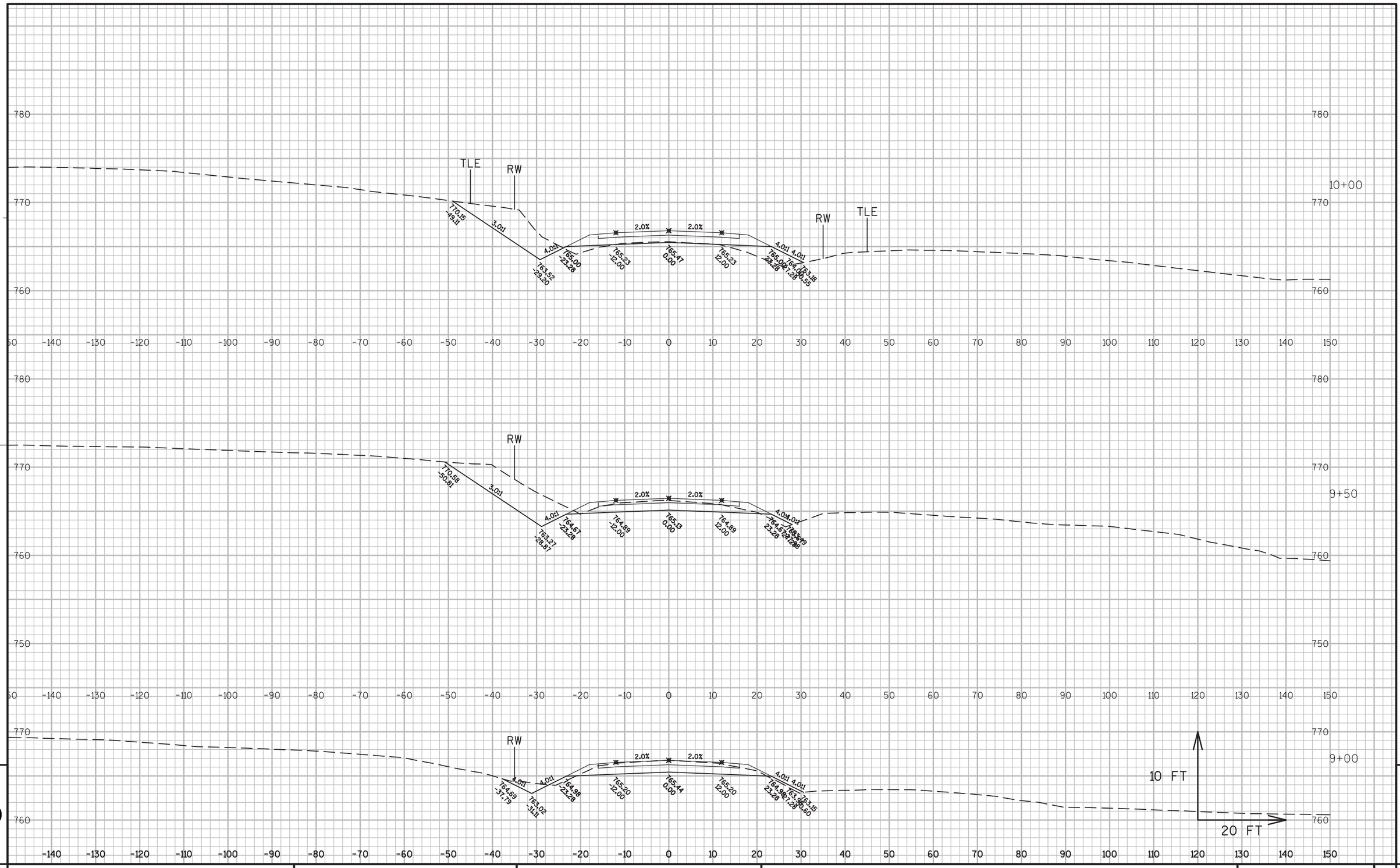
WISDOT/CADDS SHEET 49



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PROJECT NO: 1030-11-00	HWY: CTH K	COUNTY: RACINE	CROSS SECTIONS: A&W ACCESS ROAD	SHEET 354H	E

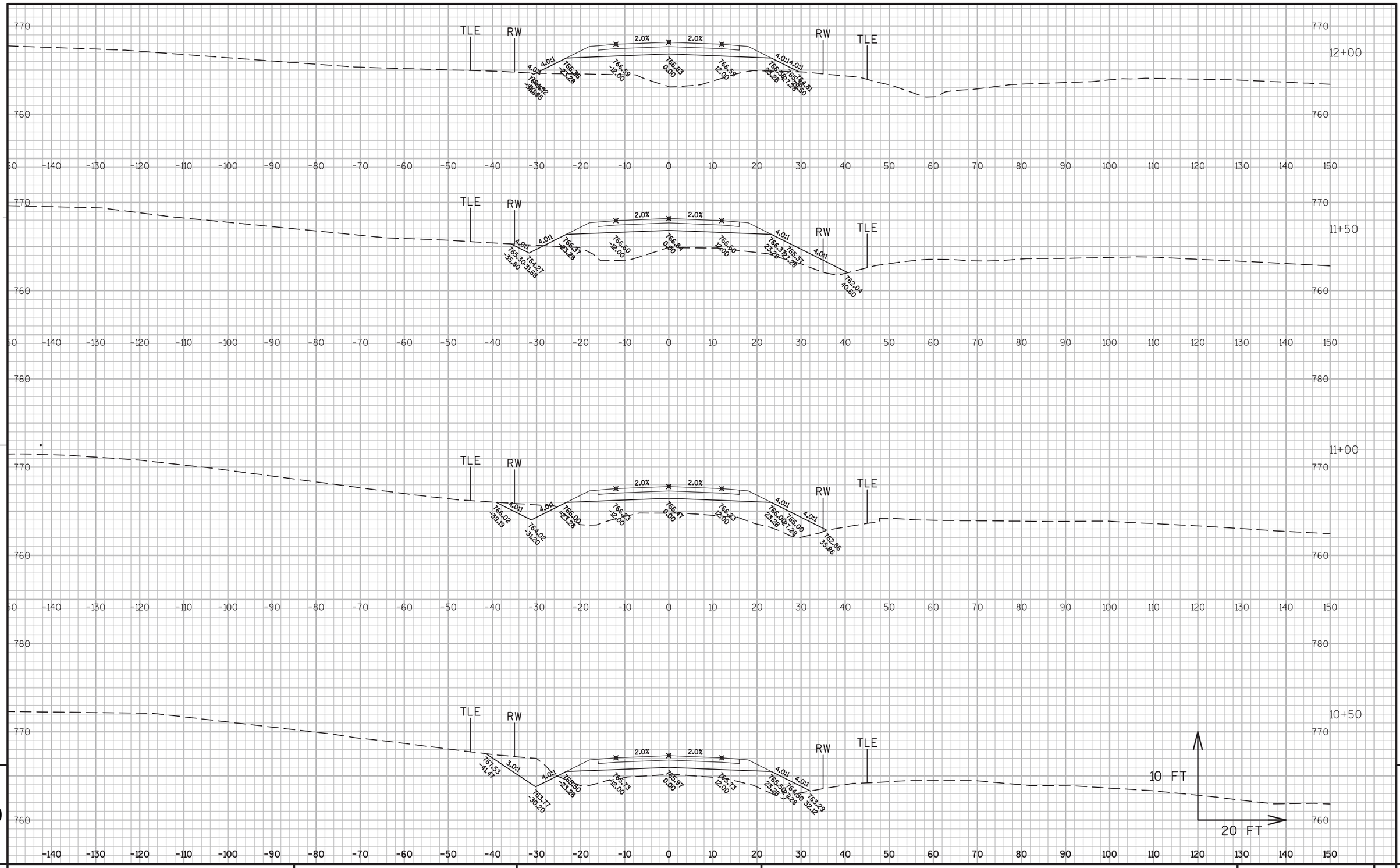
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PROJECT NO: 1030-11-00	HWY: CTH K	COUNTY: RACINE	CROSS SECTIONS: ADAMS ROAD	SHEET 3541	E

FILE NAME : N:\SEF\N-S\03-DESIGN\1030-11-00\C3D\10301100\SHEETSPLAN\090201_XS.DWG PLOT DATE : 5/29/2013 3:07 PM PLOT BY : MISUN, MARK C PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

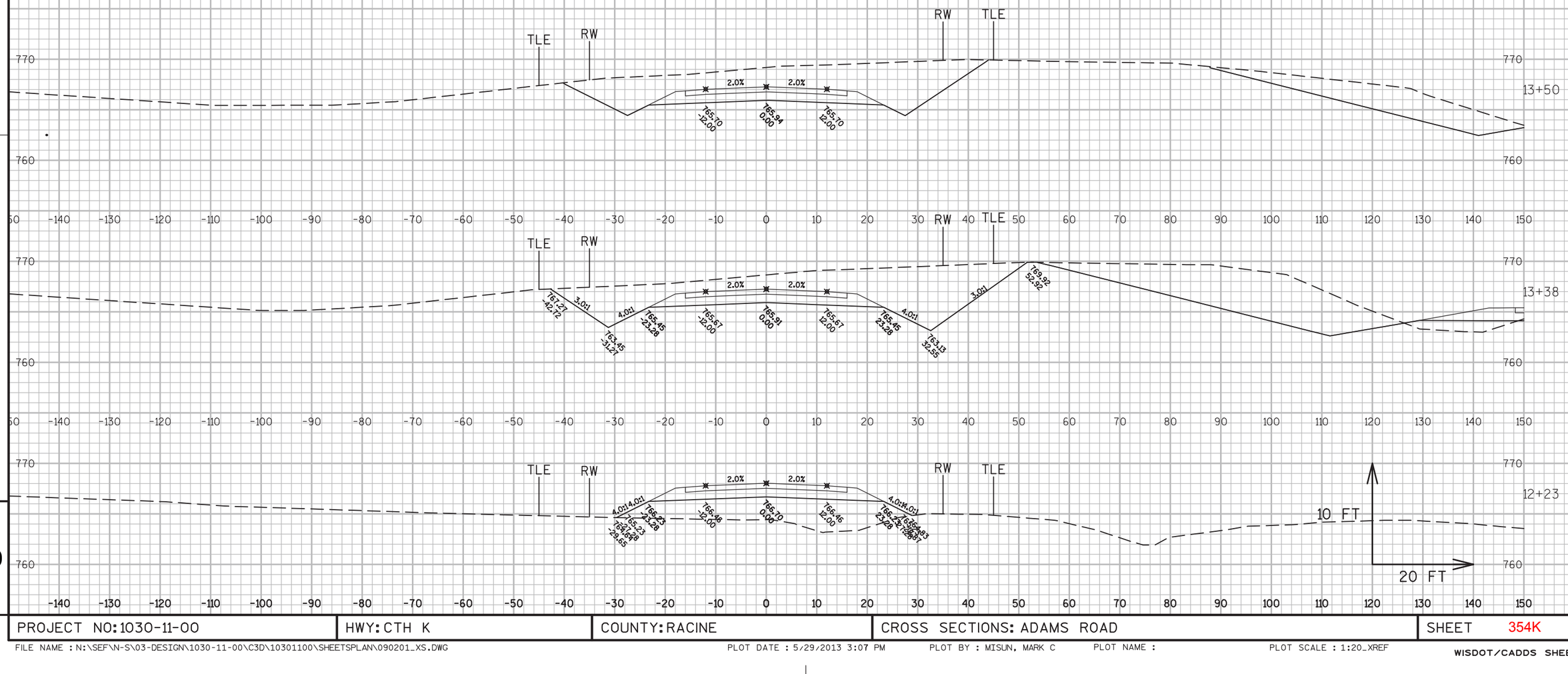


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PROJECT NO: 1030-11-00	HWY: CTH K	COUNTY: RACINE	CROSS SECTIONS: ADAMS ROAD	SHEET 354J	E

9

FILE NAME : N:\SEF\N-S\03-DESIGN\1030-11-00\C3D\10301100\SHEETSPLAN\090201_XS.DWG PLOT DATE : 5/29/2013 3:07 PM PLOT BY : MISUN, MARK C PLOT NAME : PLOT SCALE : 1:20_XREF



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9

PROJECT NO: 1030-11-00	HWY: CTH K	COUNTY: RACINE	CROSS SECTIONS: ADAMS ROAD	SHEET 354K	E

Notes

Wisconsin Department of Transportation

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