GRE

MAY 2019

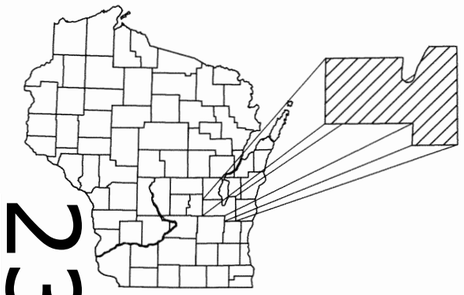
PROJECT ID: 4090-07-71

COUNTY: FOND DU LAC

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 = 248



23

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

WCL - CAMPBELLSPORT

GOLDEN CORNERS ROAD - BAUMANN STREET

STH 67

FOND DU LAC COUNTY

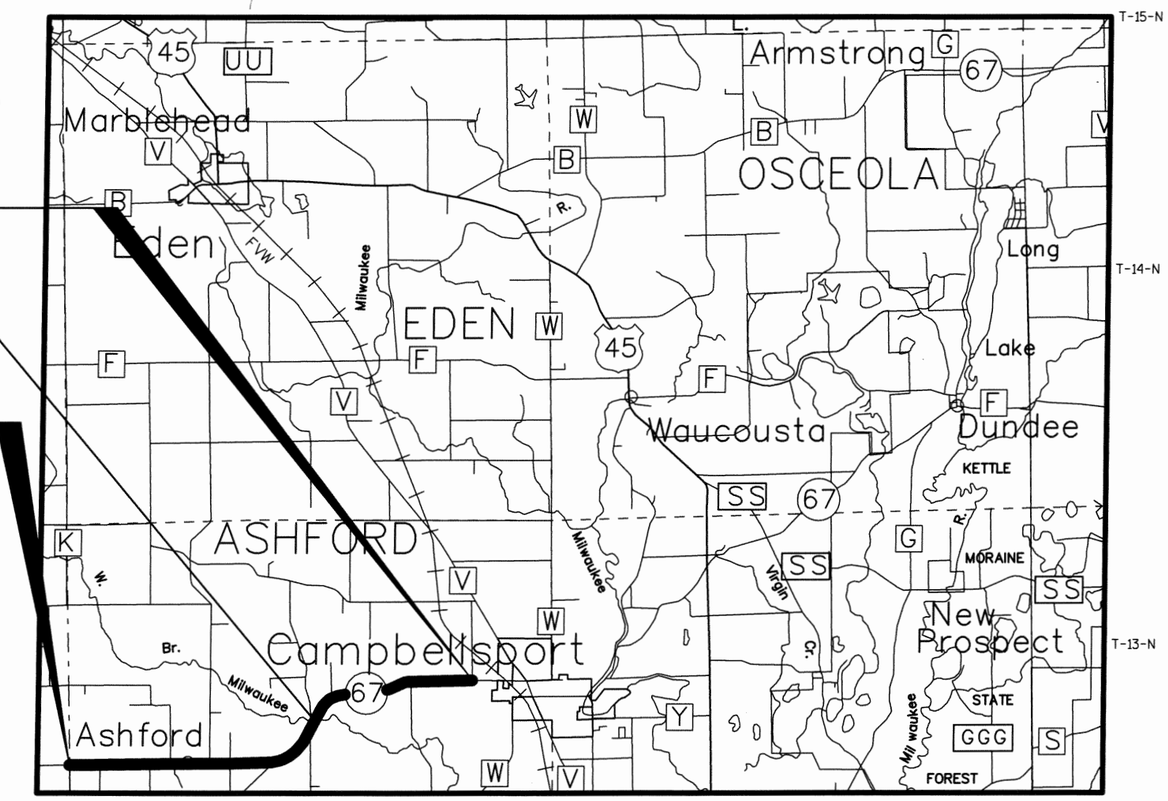
STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
4090-07-71	WISC 2019294	1

STATE PROJECT NUMBER
4090-07-71

END PROJECT 4090-07-71
STA 1298+00.00

EXCEPTION TO NET ℄ LENGTH
STA. 1175+07.66 - STA. 1175+90.18
STRUCTURE B-20-110

BEGIN PROJECT 4090-07-71
STA 999+10.20
Y= 316,318.16
X= 829,239.88



LAYOUT
SCALE 0 1 MI.

TOTAL NET LENGTH OF CENTERLINE = 5.645 MI.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), FOND DU LAC COUNTY, NAD83 (2007).

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NATIONAL AMERICAN VERTICAL DATUM OF 1988, NAVD88 (2007) ADJUSTMENT.

DESIGN DESIGNATION

A.A.D.T. 2016 =	2,200
A.A.D.T. 2036 =	2,800
D.H.V. =	400
D.D. =	62 / 38
T. =	7.50%
DESIGN SPEED =	55 MPH
ESALS =	562,100

CONVENTIONAL SYMBOLS

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

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

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

ENGINEERING, INC
Consultant Services

WISCONSIN
ANDREW W. BLOCK
E-41224-6
APPLETON WI.
PROFESSIONAL ENGINEER

Andrew W. Block 1/21/2019

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY
- Surveyor: WISDOT
- Designer: JT ENGINEERING, INC.
- Project Manager: BRYAN LEARST, PE
- Regional Examiner:
- Regional Supervisor: ROB WAGNER, PE
- C.O. Examiner:

APPROVED FOR THE DEPARTMENT
DATE: 1-22-2019 Bryan Learst (Signature)

E

SEQUENCE OF PLANS AND DETAILS IN SECTION 2

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
EROSION CONTROL PLAN
PERMANENT SIGNING PLAN

- THE LOCATIONS OF EXISTING UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
- ANY LOCAL OR MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.
- SUBSURFACE EXPLORATION REPORTS ARE AVAILABLE FOR REVIEW. CONTACT PROJECT MANAGER, BRYAN LEARST, AT THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NE REGION, PHONE NUMBER (920) 366-5639.
- ALL HOLES OR OPENINGS BELOW SUBGRADE RESULTING FROM ABANDONMENT OR REMOVAL OF EXISTING STRUCTURES SHALL BE FILLED WITH GRANULAR MATERIAL OR AS DIRECTED BY ENGINEER.
- SUPER ELEVATION TRANSITIONS ARE APPROXIMATE AND CAN BE ADJUSTED BY THE ENGINEER TO MATCH FIELD CONDITONS.

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

2

UTILITIES

COMMUNICATION

AT&T WISCONSIN
70 E. DIVISION STREET
FOND DU LAC, WI 54935
ATTN: CHUCK BARTELT
TEL: (920) 929-1013
MOBILE: (920) 410-5104
CB1461@ATT.COM

CHARTER COMMUNICATIONS
165 KNIGHTS WAY
FOND DU LAC, WI 54937
ATTN: TODD HILDEBRANDT
TEL: (920) 907-7724
MOBILE: (920) 794-4946
TODD.HILDEBRANDT@CHARTER.COM

FRONTIER COMMUNICATIONS OF WI
1851 N. 14TH AVENUE
WAUSAU, WI 54401
ATTN: CAL KLADE
TEL: (715) 847-1525
MOBILE: (715) 573-2110
CALVIN.KLADE@FTR.COM

ELECTRICITY

WE ENERGIES
W140 N9100 LILLY ROAD
MENOMONEE FALLS, WI 53051
ATTN: JONATHAN SCHALOW
TEL: (262) 502-6814
MOB: (414) 881-4743
JONATHAN.SCHALOW@WE-ENERGIES.COM

ELECTRICITY-TRANSMISSION

ATC MANAGEMENT, INC.
801 O'KEEFE ROAD
DE PERE, WI 54115-6113
ATTN: GERALD RHODE
TEL: (920) 338-6523
GRHODE@ATCLLC.COM

GAS/PETROLEUM

ALLIANT ENERGY
883 W. SCOTT STREET
FOND DU LAC, WI 54935
ATTN: TRACY JOO
TEL: (920) 332-6625
MOB: (920) 979-7351
TRACYJOO@ALLIANTENERGY.COM

SANITARY SEWER AND WATER

VILLAGE OF CAMPBELLSPORT SEWER & WATER
470 GRANDVIEW AVENUE
P.O. BOX 709
CAMPBELLSPORT, WI 53010-0709
ATTN: MARK GRUBER
TEL: (920) 553-8321
MOBILE: (920) 960-3060
MGRUBERCPORT@YAHOO.COM

AGENCIES/PROJECT CONTACTS

TOWN OF ASHFORD
CHAIRMAN
W3898 RIDGE LANE
CAMPBELLSPORT, WISCONSIN 53010
ATTN: MR. JOE KOCH
(920) 533-8592

VILLAGE OF CAMPBELLSPORT
VILLAGE PRESIDENT
101 W. MAIN STREET
CAMPBELLSPORT, WISCONSIN 53010
ATTN: MR. DAVID KREBS
(920) 979-9713

EAST CENTRAL WISCONSIN REGIONAL PLANNING COMMISSION
400 AHNAIP STREET, SUITE 100
MENASHA, WISCONSIN 54952
ATTN:ERIC FOWLE, DIRECTOR
(920) 751-4770

FOND DU LAC COUNTY
DEPARTMENT OF HIGHWAY AND PUBLIC WORKS
301 DIXIE STREET
P.O. BOX 1234
FOND DU LAC, WI 54936
ATTN: MR. TOM JANKE
COUNTY HIGHWAY COMMISSIONER
(920) 929-3488

DEPARTMENT OF PARKS & TRAILS
160 SOUTH MACY STREET
FOND DU LAC, WISCONSIN 54935
ATTN: MR. SAM TOBIAS, DIRECTOR
(920) 929-3135

US ARMY CORPS OF ENGINEERS
ST. PAUL DISTRICT
20711 WATERTOWN ROAD #F
WAUKESHA, WI 53186
ATTN: MS. BONNIE GUNDRUM
(651) 290-5730

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
DNR LIAISON
2984 SHAWANO AVENUE
GREEN BAY, WI 54313
ATTN: MR. JAY SCHIEFELBEIN
(920) 360-3784

WISDOT NER SURVEY COORDINATOR
944 VANDERPERREN WAY
GREEN BAY, WI 54304
ATTN: MR. CORMAC MCINNIS, P.L.S.
TELEPHONE: (920) 492-5638
CORMAC.MCINNIS@DOT.WI.GOV

CONSULTANT CONTACT
MEAD & HUNT, INC.
2440 DEMING WAY
MIDDLETON, WI 53562-1562
ATTN: MR. RUSTY CHESMORE, P.E.
TELEPHONE: (608) 273-6380
RUSTY.CHESMORE@MEADHUNT.COM

JT ENGINEERING, INC.
1077 CENTENNIAL CENTRE BOULEVARD
HOBART, WISCONSIN 54155
ATTN: MR. ANDREW BLOCK, P.E.
TELEPHONE: (920) 468-4771
ANDYBLOCK@JT-ENGINEERING.COM

2

2

N

BEGIN PROJECT
STA. 999+10.20

STH 67
CONSTRUCTION

TOWN OF ASHFORD

DODGE COUNTY
FOND DU LAC COUNTY

993 1000 1010 1020 1030 1040 1050 1060 1070 1080 1090 1100 1110 1120 1130 1140 1150

GOLDEN CORNERS RD
ARROW LN
ASHLAND DR
PLEASANT HILL DR
SUPER DR
MINNIE LN
DRUMLIN DR
KATZENBURG DR
WILLOW LN
MEMORIAL DR

N

CANARY LN
CANARY LN
ROLLING DR
ROLLING DR
OLD 67 RD
RIVER DR
BEECHNUT DR

1150 1160 1170 1180 1190 1200 1210 1220 1230 1240 1250 1260 1270 1280 1290 1300 1310 1320

NET EXCEPTION TO CENTERLINE LENGTH
STA. 1175+07.66 - STA. 1175+90.18
AT STRUCTURE B-20-110

STH 67
CONSTRUCTION

END PROJECT
STA. 1298+00

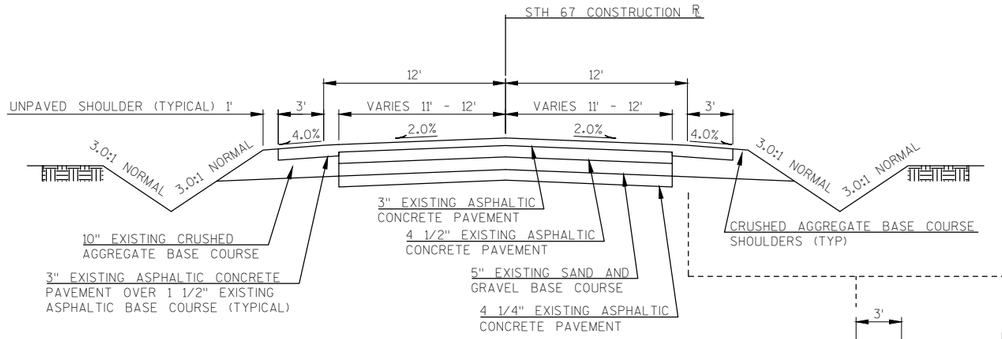
CAMPBELLSPORT
VILLAGE LIMITS

WEST BRANCH OF MILWAUKEE RIVER

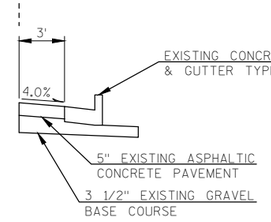
TOWN OF ASHFORD

STRUCTURE B-20-110
AT MILWAUKEE RIVER

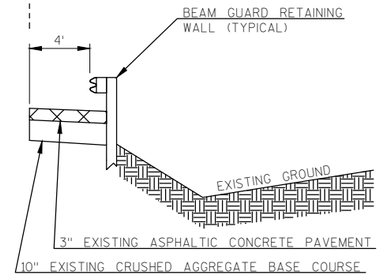
PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	PROJECT OVERVIEW	SHEET 3 E



EXISTING TYPICAL SECTION FOR STH 67
STA. 999+10.20 - STA. 1072+32
STA. 1085+37 - STA. 1173+45.92
STA. 1178+76.22 - STA. 1298+00.00

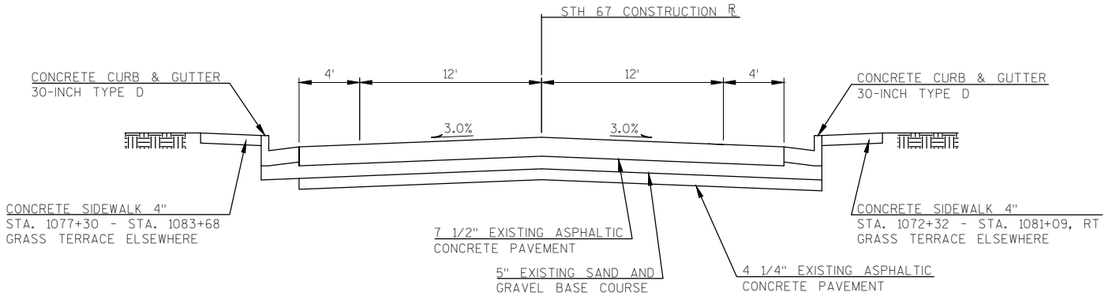


STA. 1211+34 - STA. 1212+91, RT

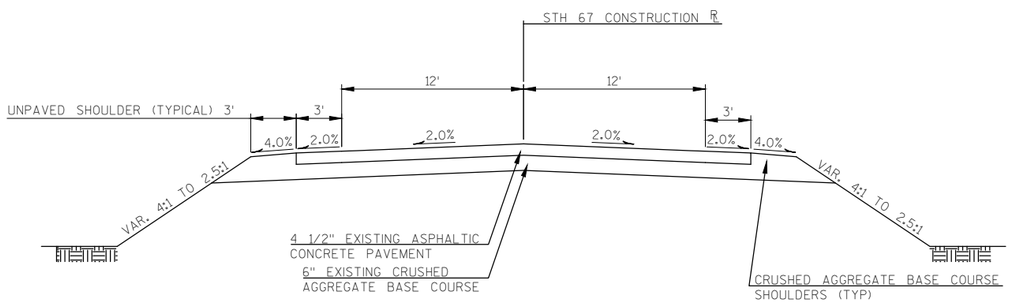


EXISTING TYPICAL SECTION WITH BEAM GUARD RETAINING WALL

STA. 1067+40 TO 1071+78 LT	STA. 1122+35 TO 1126+58 LT
STA. 1109+36 TO 1114+78 RT	STA. 1283+78 TO 1289+32 RT
STA. 1109+53 TO 1115+76 LT	STA. 1285+71 TO 1286+83 LT
STA. 1121+29 TO 1126+71 RT	



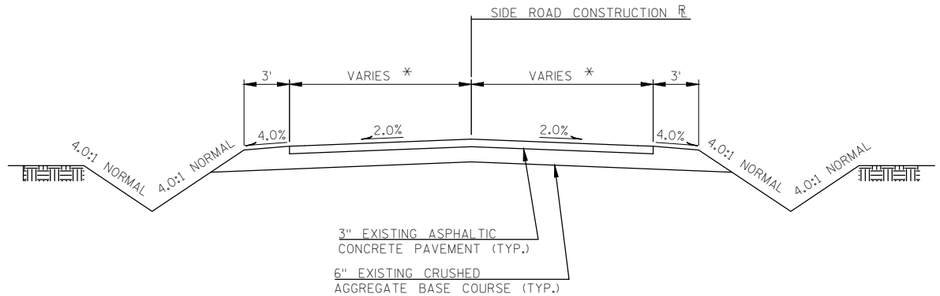
TYPICAL EXISTING SECTION FOR STH 67
STA. 1072+32 - STA. 1085+37



TYPICAL EXISTING SECTION FOR STH 67
STA. 1173+45.92 - STA. 1178+76.22

PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	TYPICAL SECTIONS	SHEET 4 E

2

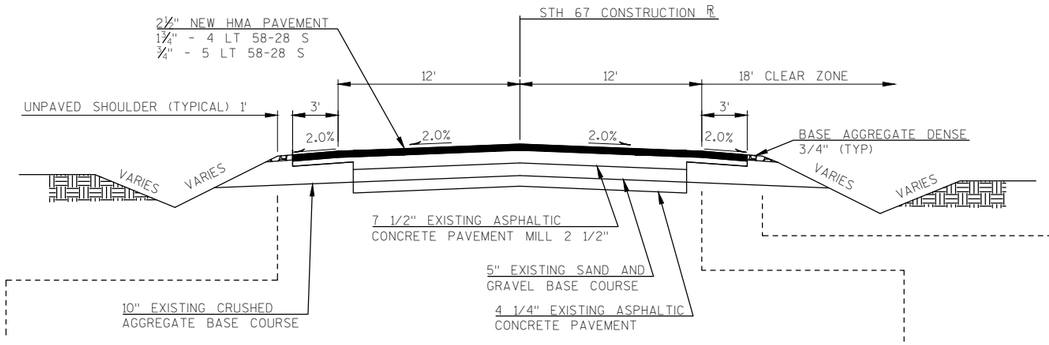


TYPICAL EXISTING SECTION

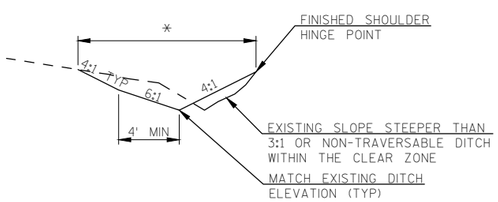
*GOLDEN CORNERS ROAD (10' LANES)
*ARROW LANE (7' LANES)
*ASHLAND DRIVE (11' LANES)
*PLEASANT HILL DRIVE (9' LANES)
*SUPER DRIVE (11' LANES)
*MINNIE LANE (9' LANES)
*DRUMLIN DRIVE (12' LANES)
*WILLOW LANE (9' LANES)
*KATZENBURG DRIVE (10' LANES)
*MEMORIAL DRIVE (10' LANES)
*OLD 67 ROAD (9' LANES)
*ROLLING DRIVE (SOUTH) (8' LANES)
*ROLLING DRIVE (NORTH) (11' LANES)
*CANARY LANE (7' LANES)
*RIVER DRIVE (12' LANES)
*BEECHNUT DRIVE (10' LANES)

PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	TYPICAL SECTIONS	SHEET 5 E

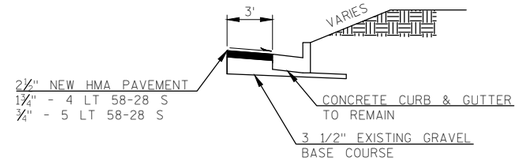
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PLOT DATE : 11/26/2018 1:55 PM
PLOT BY : ANDY BLOCK
PLOT NAME : ----------
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



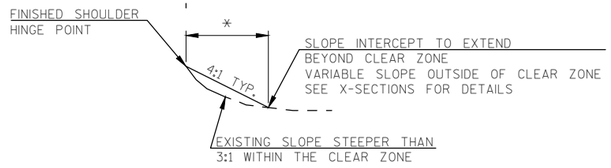
PROPOSED TYPICAL FINISHED SECTION FOR STH 67
STA. 999+10.20 - STA. 1072+32
STA. 1085+37 - STA. 1173+45.92
STA. 1178+76.22 - STA. 1298+00.00



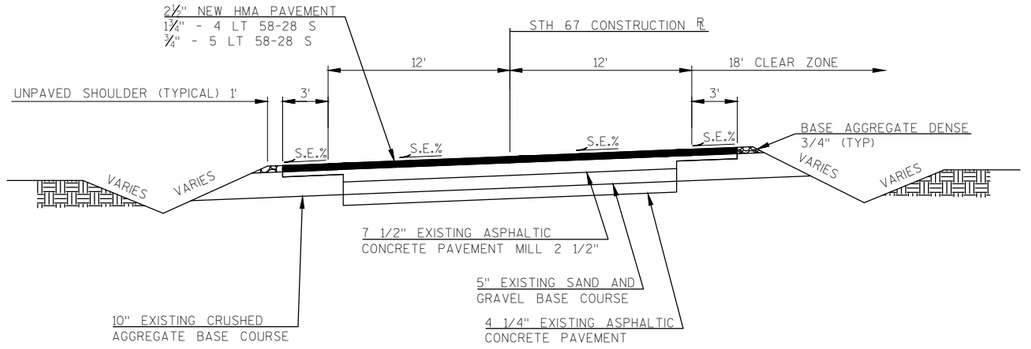
PROPOSED FINISHED TYPICAL SECTION FOR SLOPE FLATTENING - CUT SECTION
* - PLACE TOPSOIL, FERTILIZER TYPE A,
SEEDING MIXTURE NO. 30, AND SEE
EROSION CONTROL PLAN FOR FINISHING



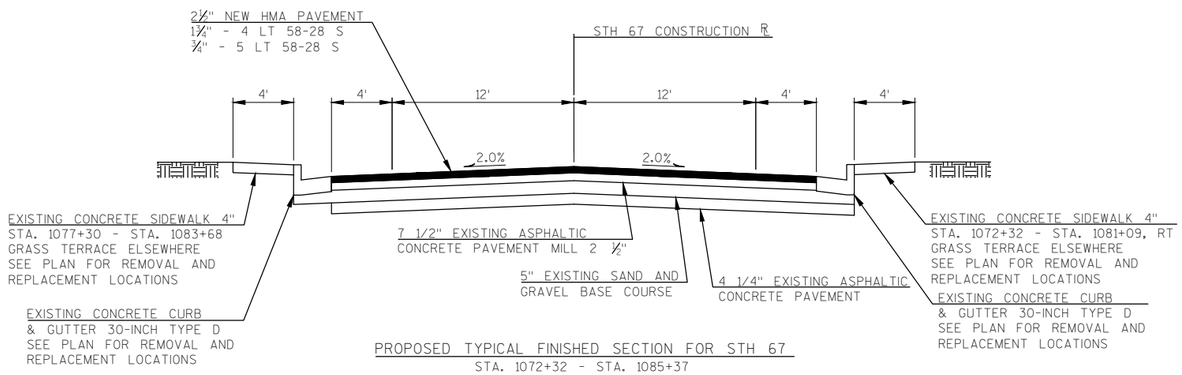
STA. 1211+34 - STA. 1212+91, RT



PROPOSED FINISHED TYPICAL SECTION FOR SLOPE FLATTENING - FILL SECTION
* - PLACE TOPSOIL, FERTILIZER TYPE A,
SEEDING MIXTURE NO. 30, AND SEE
EROSION CONTROL PLAN FOR FINISHING



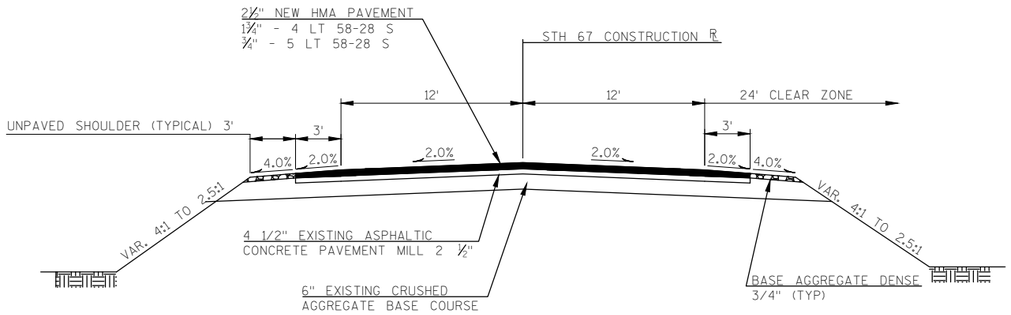
PROPOSED TYPICAL FINISHED SECTION FOR STH 67 IN SUPERELEVATION



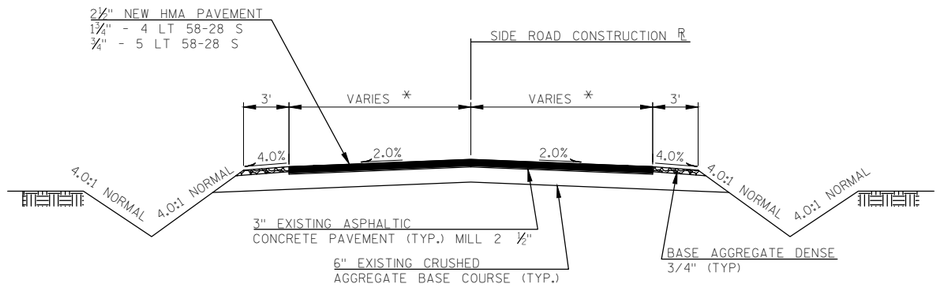
PROPOSED TYPICAL FINISHED SECTION FOR STH 67
STA. 1072+32 - STA. 1085+37

PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	TYPICAL SECTIONS	SHEET 6 E

2



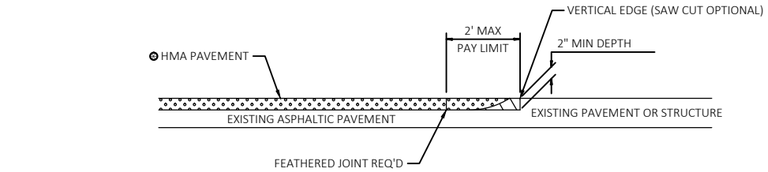
PROPOSED TYPICAL FINISHED SECTION FOR STH 67
STA. 1173+45.92 - STA. 1178+76.22



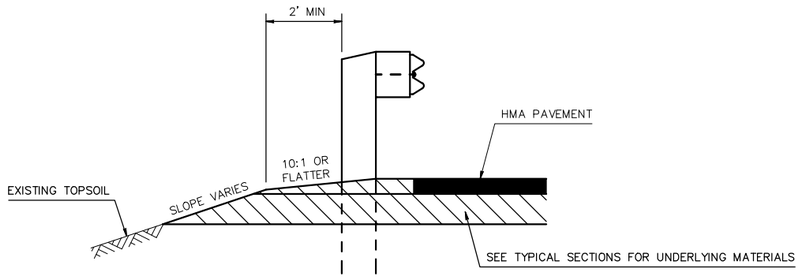
PROPOSED TYPICAL FINISHED SECTION
*GOLDEN CORNERS ROAD (10' LANES)
*ARROW LANE (7' LANES)
*ASHLAND DRIVE (11' LANES)
*PLEASANT HILL DRIVE (9' LANES)
*SUPER DRIVE (11' LANES)
*MINNIE LANE (9' LANES)
*DRUMLIN DRIVE (12' LANES)
*WILLOW LANE (9' LANES)
*KATZENBURG DRIVE (10' LANES)
*MEMORIAL DRIVE (10' LANES)
*OLD 67 ROAD (9' LANES)
*ROLLING DRIVE (SOUTH) (8' LANES)
*ROLLING DRIVE (NORTH) 11' LANES)
*CANARY LANE (7' LANES)
*RIVER DRIVE (12' LANES)
*BEECHNUT DRIVE (10' LANES)

PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	TYPICAL SECTIONS	SHEET 7 E

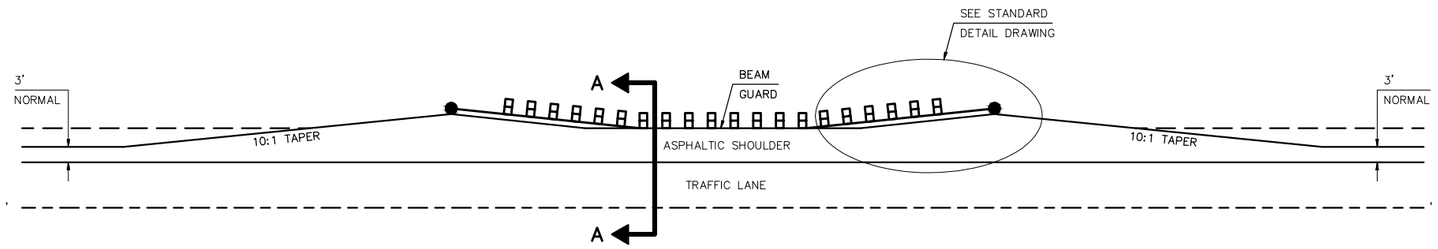
2



BUTT JOINT DETAIL FOR ASPHALTIC PAVEMENTS (NO PROFILE CHANGE)

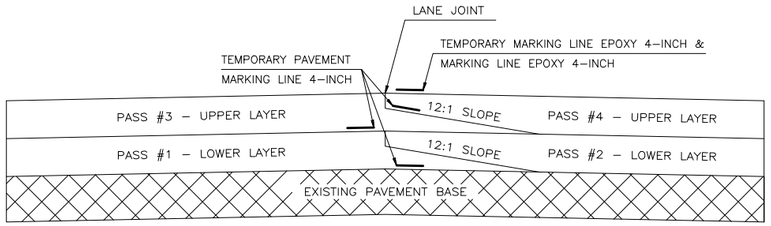


SECTION A–A



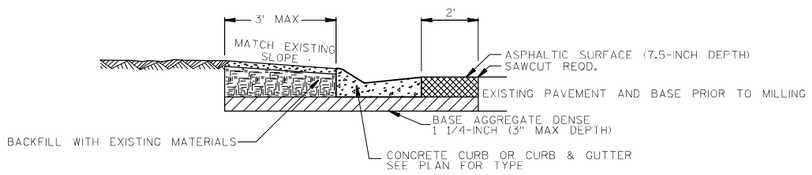
DETAIL FOR ASPHALTIC SHOULDER AT GUARDRAIL

2



LOWER AND UPPER LAYERS

PAVEMENT MARKING DETAIL FOR TAPERED OVERLAPPING JOINTS IN ASPHALTIC PAVEMENTS



NOTES:

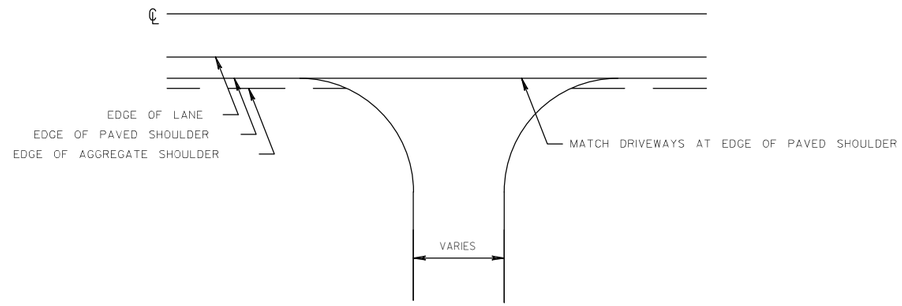
SAWCUT SHALL BE 2' FROM FACE OF CURB WHERE CONCRETE CURB IS SPECIFIED

BASE COURSE BELOW PROPOSED CURB OR CURB & GUTTER SHALL BE CONSTRUCTED TO PROVIDE A SUITABLE BASE AS DETERMINED BY THE ENGINEER IN THE FIELD

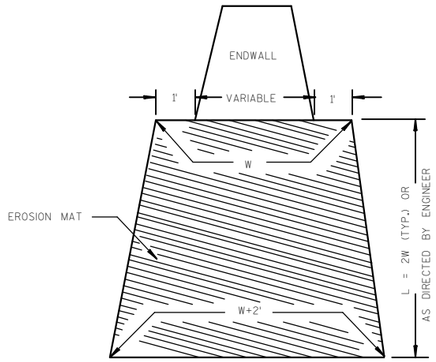
SEE MISCELLANEOUS QUANTITIES FOR FINISHING AND EROSION CONTROL ITEMS

IN LOCATIONS WHERE THE BACK OF CURB ABUTS PAVEMENT OR SIDEWALK SHOWN TO REMAIN, THAT MATERIAL SHALL NOT BE DISTURBED BY CONSTRUCTION ACTIVITIES

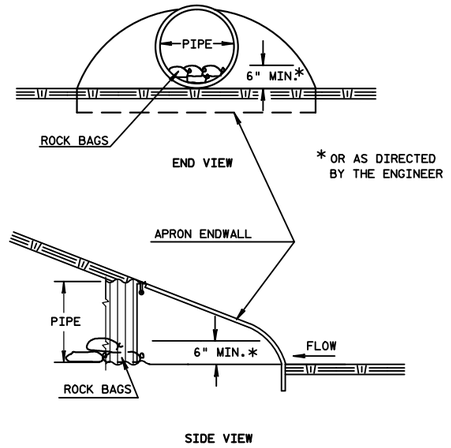
DETAIL FOR CURB & GUTTER REPLACEMENT



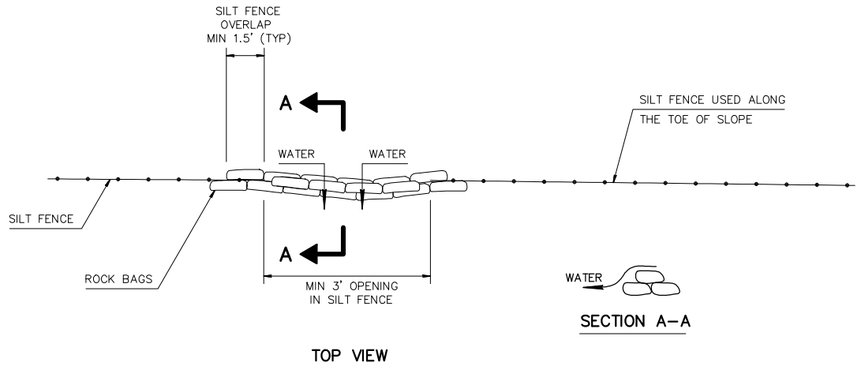
DETAIL FOR TYPICAL DRIVEWAY PAVING LIMITS



DETAIL FOR EROSION MAT TREATMENT AT CULVERTS

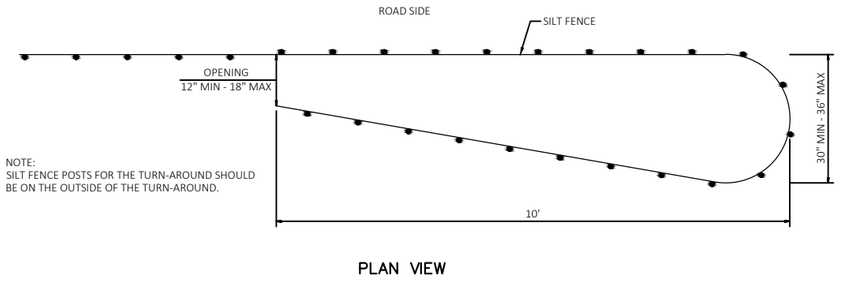


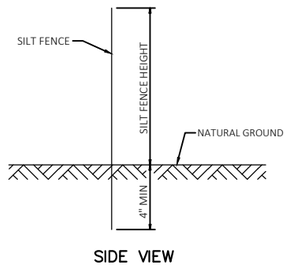
DETAIL FOR CULVERT PIPE CHECKS



DETAIL FOR ROCK BAGS USED AS SILT FENCE RELIEF

PAID AS ROCK BAGS

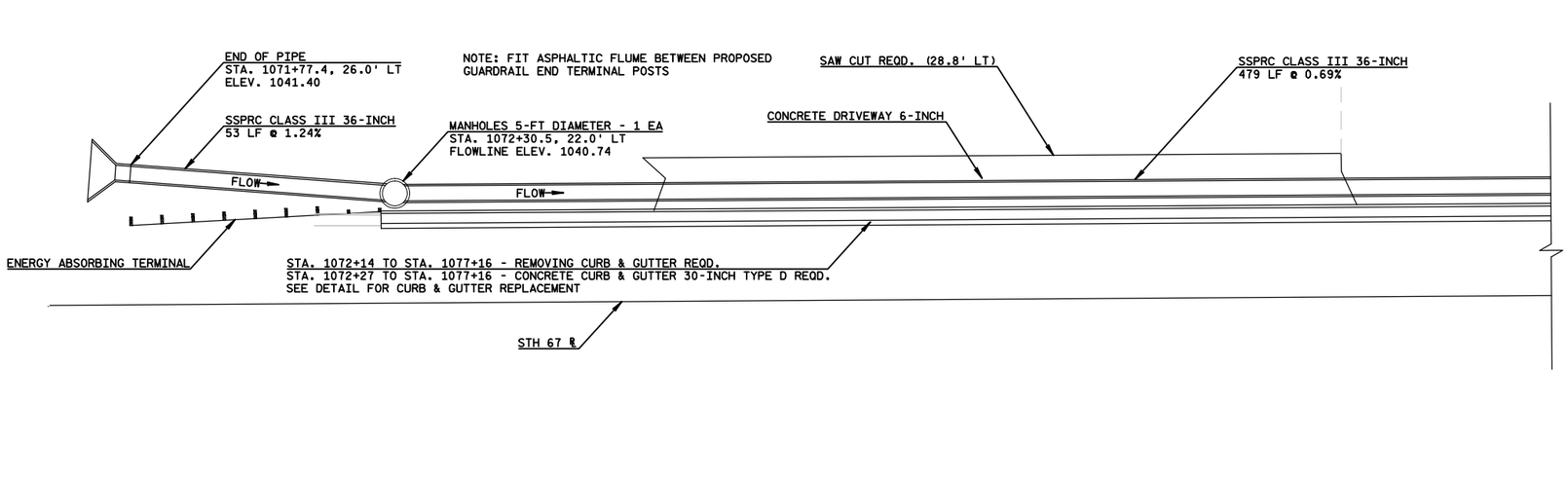


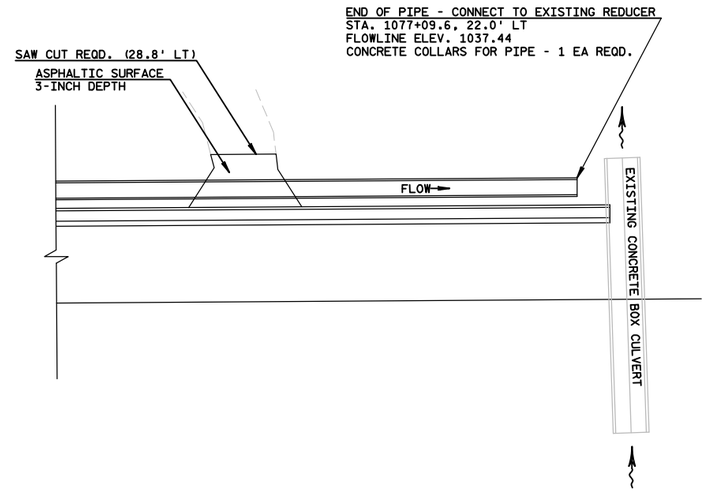


SILT FENCE TURN–AROUND DETAIL

SILT FENCE TURN-AROUND SHALL BE USED IN AREAS
ADJACENT TO THE MILWAUKEE RIVER

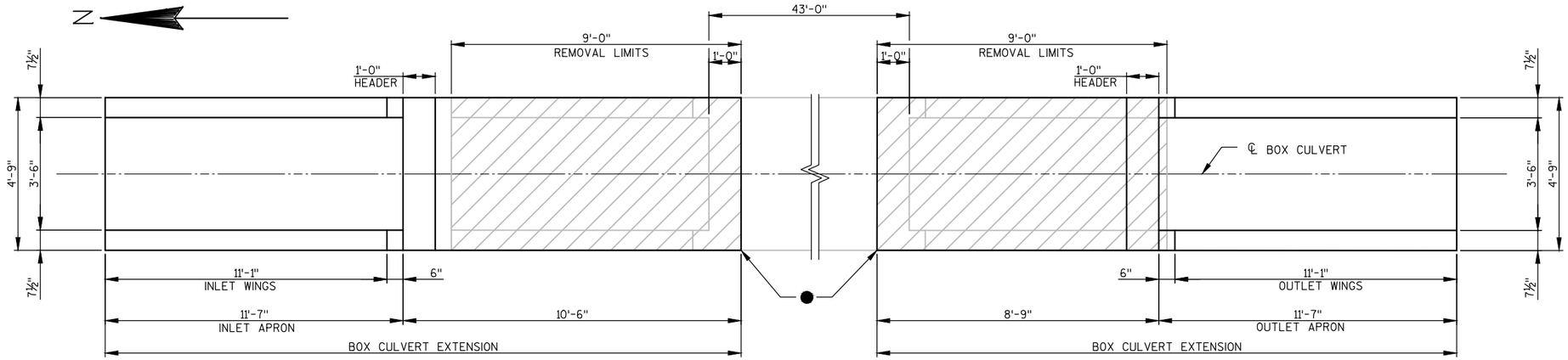
2





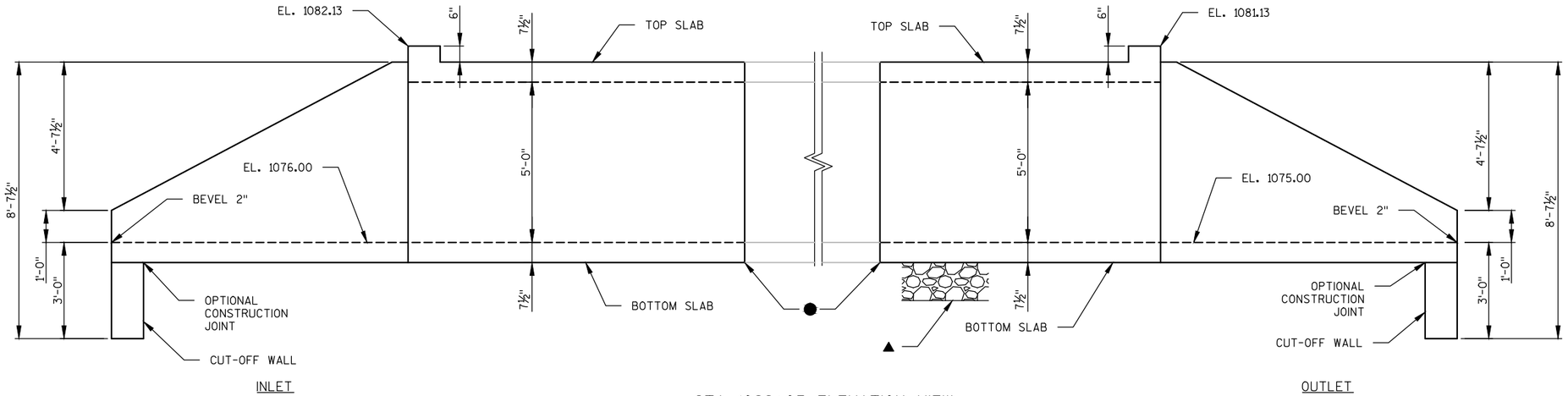
NOTES:
-REMOVING STORM SEWER 36-INCH - 520 LF REQD. (CORRUGATED METAL)
-THE PROPOSED PIPE DOWNSTREAM OF THE MANHOLE STRUCTURE SHALL FOLLOW THE ALIGNMENT OF THE EXISTING PIPE
-THE CONTRACTOR SHALL VERIFY THE INVERT ELEVATION OF THE PROPOSED STORM SEWER CONNECTION TO THE EXISTING CONCRETE BOX CULVERT/REDUCER

DETAIL FOR CULVERT REPLACEMENT STA. 1071+77.4 TO STA. 1077+09.6, LT

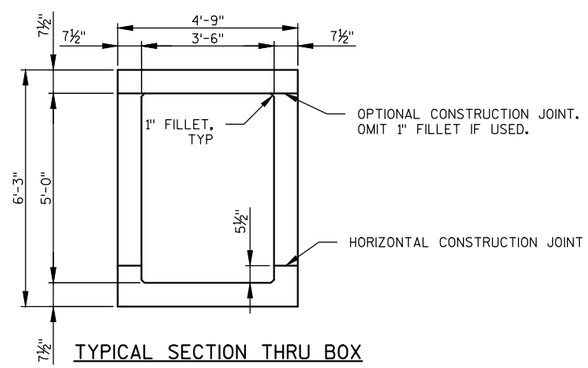


STA 1022+05 PLAN VIEW

42" x 60" BOX CULVERT



STA 1022+05 ELEVATION VIEW



TYPICAL SECTION THRU BOX

NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS STA 1022+05" SHALL BE THE EXISTING GROUND LINE.

STRUCTURE BACKFILL IS REQUIRED BEHIND ALL WINGWALLS.

ALL VOLUME WHICH CANNOT BE PLACED BEFORE THE CULVERT CONSTRUCTION AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL WITHIN THE LENGTH OF THE CULVERT INCLUDING APRON WINGWALLS.

THE CONCRETE IN CUT OFF WALLS MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

THE ALTERNATIVE CUT OFF WALL MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONCRETE CUT OFF WALLS. PAYMENT SHALL BE BASED ON CONCRETE CUT OFF WALLS.

ALL STATIONS AND ELEVATIONS ARE IN FEET.

RUBBERIZED MEMBRANE WATERPROOFING AND FILLER TO EXTEND ALONG JOINT BETWEEN WING AND BOX FROM HORIZONTAL CONSTRUCTION JOINT TO TOP OF WING.

18" MIN. WIDTH RUBBERIZED MEMBRANE WATERPROOFING TO BE PLACED ALONG BF OF VERTICAL CONSTRUCTION JOINTS ALONG WALLS AND ACROSS THE TOP SLAB OF BOX CULVERT.

● THE EXISTING STRUCTURE AT STA. 1022+05 SHALL BE REMOVED TO THE LIMITS SHOWN. CONCRETE REMOVAL SHALL BE DEFINED BY A 1" DEEP SAW CUT.

▲ UNDERCUT 1'-0". EXCAVATION SHALL BE INCLUDED IN EXCAVATION FOR STRUCTURES. PLACE "GEOTEXTILE TYPE C" AND BACKFILL WITH "BREAKER RUN".

IN LIEU OF USING BREAKER RUN FOR THE BOX CONSTRUCTION PLATFORM. THE CONTRACTOR MAY ELECT TO SUBSTITUTE #1 OR #2 CONCRETE COARSE AGGREGATE, SELECT CRUSHED MATERIAL OR OTHER GRANULAR MATERIAL AS APPROVED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR BASE STABILITY WITH ANY SUBSTITUTED MATERIAL. THE REGION GEOTECHNICAL ENGINEER MAY BE CONTACTED TO DETERMINE IF "OTHER GRANULAR MATERIAL" IS ACCEPTABLE.

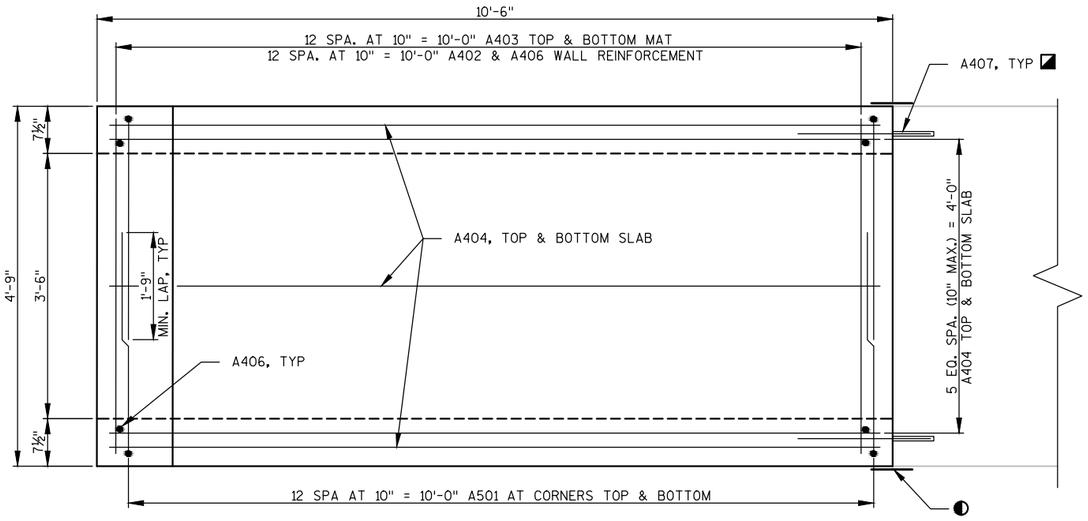
STEEL REINFORCEMENT SHALL BE GRADE 60 DEFORMED BARS (FY = 60,000 P.S.I.).

THE ULTIMATE COMPRESSIVE STRENGTH OF THE FIELD POURED CONCRETE SHALL BE 3,500 P.S.I.

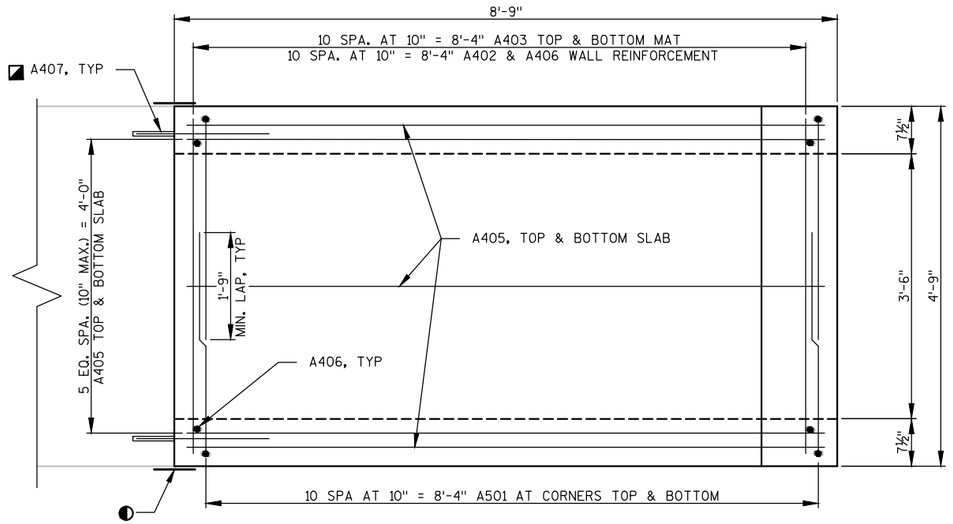
THE CONTRACTOR MAY FURNISH A PRECAST CONCRETE BOX CULVERT IN LIEU OF THE CAST-IN-PLACE BOX CULVERT WITH THE ACCEPTANCE OF THE SHOP DRAWINGS BY THE STRUCTURES DESIGN SECTION. THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO PRECAST DETAILS IN CHAPTER 36 STANDARDS OF THE CURRENT WISCONSIN DOT BRIDGE MANUAL. PAYMENT FOR THE PRECAST CULVERT SHALL BE BASED ON THE QUANTITIES AND PRICES BID FOR THE ITEMS LISTED IN THE "TOTAL ESTIMATED QUANTITIES".

BID ITEM NO.	BID ITEMS	UNIT	TOTALS
203.0200	REMOVING OLD STRUCTURE STATION 1022+05	LS	1
206.2000	EXCAVATION FOR STRUCTURES CULVERTS STA 1022+05	LS	1
210.2500	BACKFILL STRUCTURE TYPE B	TON	110
311.0110	BREAKER RUN	TON	31
502.4204	ADHESIVE ANCHORS NO. 4 BAR	EACH	48
504.0100	CONCRETE MASONRY CULVERTS	CY	17
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	1770
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	910
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	18
645.0105	GEOTEXTILE TYPE C	SY	61
	NON BID ITEMS		
	FILLER	SIZE	3/4"

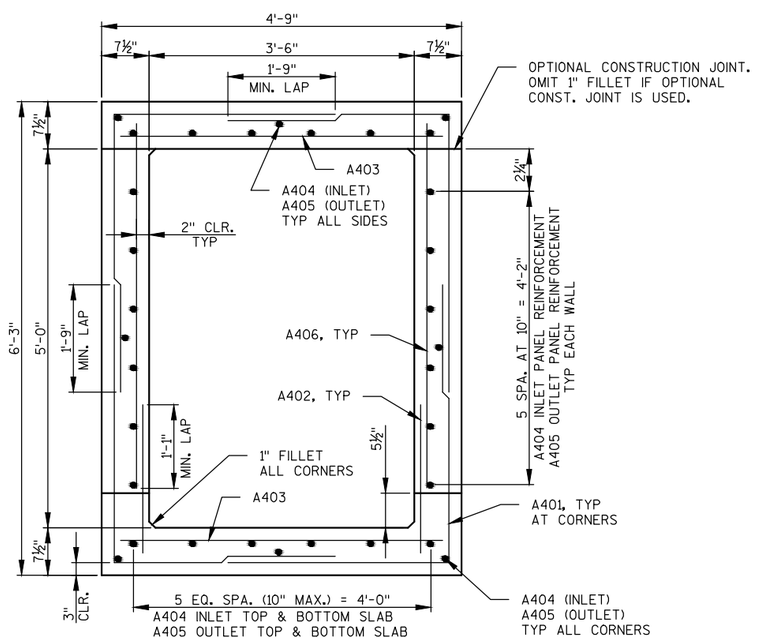
PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	PLAN: STA 1022+05 BOX CULVERT DETAILS	SHEET 12	E



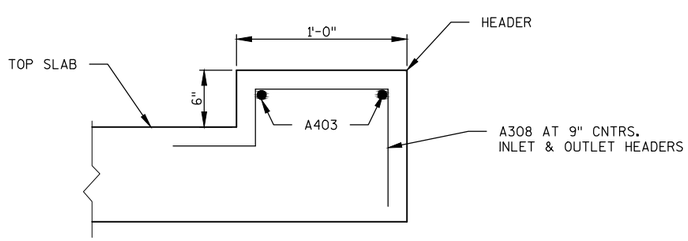
PLAN VIEW INLET PANEL



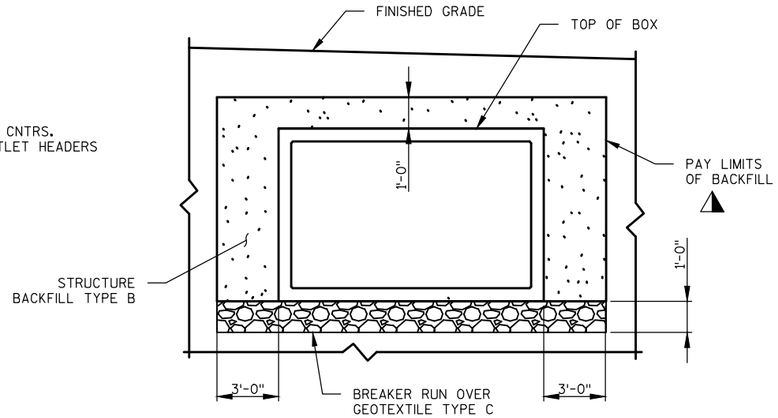
PLAN VIEW OUTLET PANEL



SECTION THRU BOX



TYPICAL SECTION THRU CULVERT HEADERS



STRUCTURE BACKFILL DETAIL

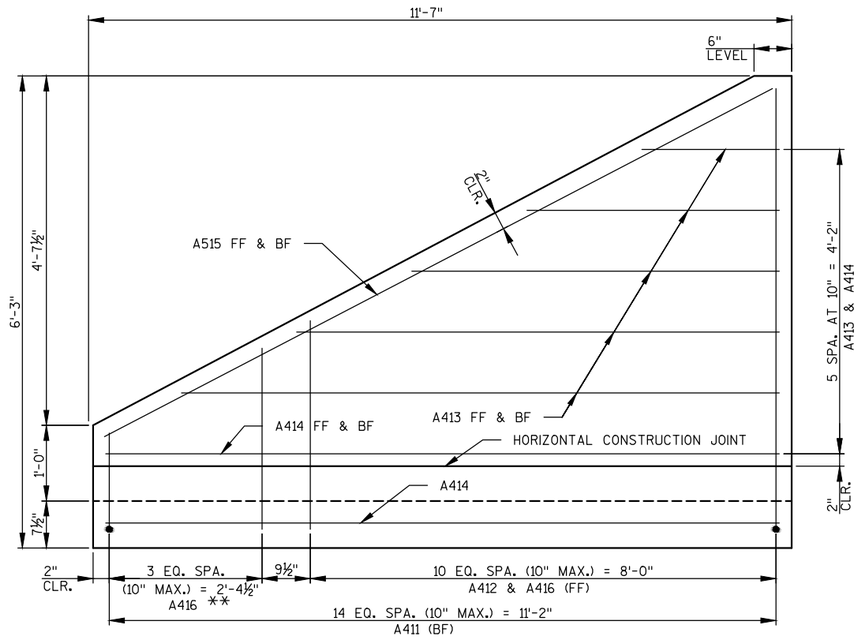
BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

LEGEND

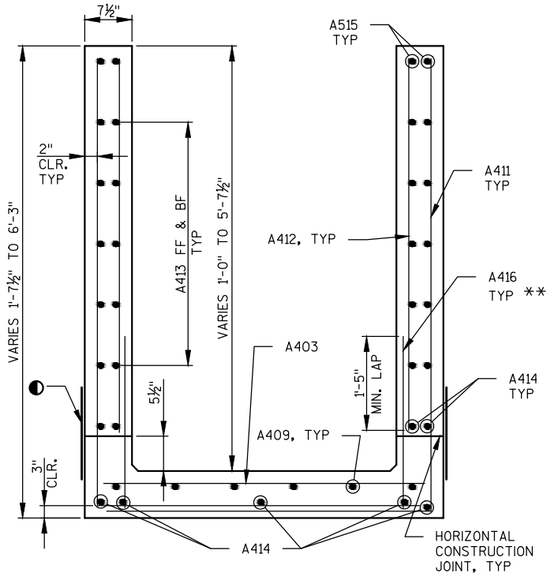
ADHESIVE ANCHORS NO. 4 BAR. PLACE ANCHORS IN CENTER OF WALLS, TOP SLAB AND BOTTOM SLAB OF EXISTING BOX AT 10" MAX. SPACING. EMBED 6" IN CONCRETE.

RUBBERIZED MEMBRANE WATERPROOFING SHALL BE PLACED OVER THE JOINTS ON THE TOP AND SIDES OF THE BOX CULVERT.

PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	PLAN: STA 1022+05 BOX CULVERT DETAILS	SHEET 13	E



WINGWALL ELEVATION
BACK FACE



SECTION THRU WINGWALLS

BILL OF BARS
BOX CULVERT

COATED= 910 LBS
UNCOATED= 1770 LBS

MARK	NUMBER COATED	NUMBER UNCOATED	LENGTH FT - IN	BENT	BAR SERIES	LOCATION	
A 5 01		96	6 - 10	X		BOX CORNERS	VERT
A 4 02		48	2 - 1			BOX - DOWELS	VERT
A 4 03		82	4 - 5			BOX HORIZONTAL - TOP SLAB , BOTTOM SLAB & APRON	TRANS
A 4 04		32	10 - 2			BOX HORIZONTAL - INLET END	LONG
A 4 05		32	8 - 5			BOX HORIZONTAL - OUTLET END	LONG
A 4 06		48	4 - 10			BOX - WALLS	VERT
A 4 07		48	2 - 1			BOX ANCHORS	HORIZ
A 3 08		14	2 - 2	X		BOX HEADER	VERT
A 4 09		12	13 - 8			APRON	LONG
A 4 10		12	3 - 6	X		CUT-OFF WALL	VERT
A 4 11	60		7 - 11	X	X	WINGWALLS BF	VERT
A 4 12	44		3 - 3		X	WINGWALLS FF	VERT
A 4 13	40		5 - 10		X	WINGWALLS FF & BF	HORIZ
A 4 14	18		11 - 3			WINGWALLS FF & BF, APRON BOTTOM	HORIZ
A 5 15	8		12 - 1			WINGWALLS TOP	HORIZ
A 4 16	60		2 - 5			WINGWALLS DOWELS	VERT

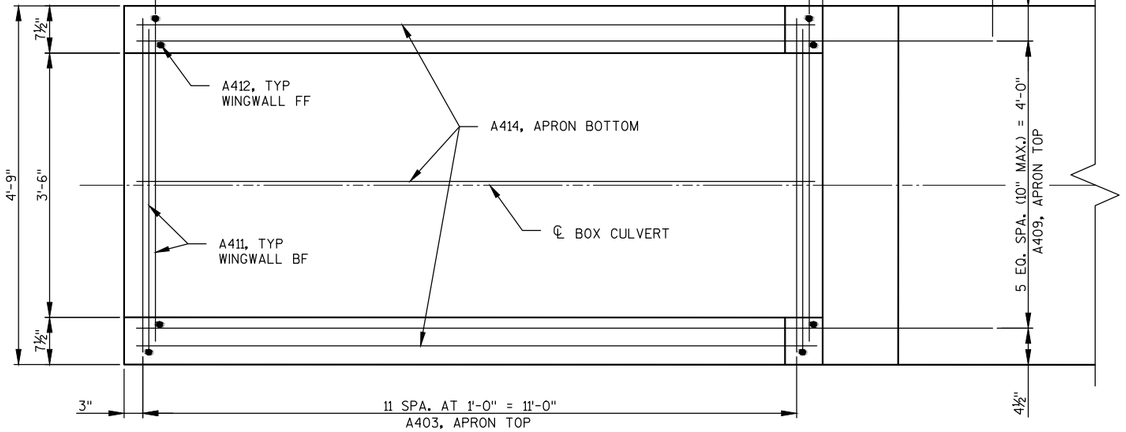
BAR DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BARS.

ALL REINFORCING BARS ARE ENGLISH.

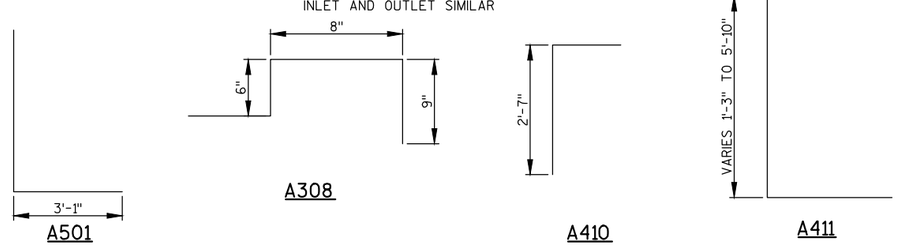
AVERAGE LENGTH OF BAR SERIES USED FOR DETERMINING BAR WEIGHT ONLY.
SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

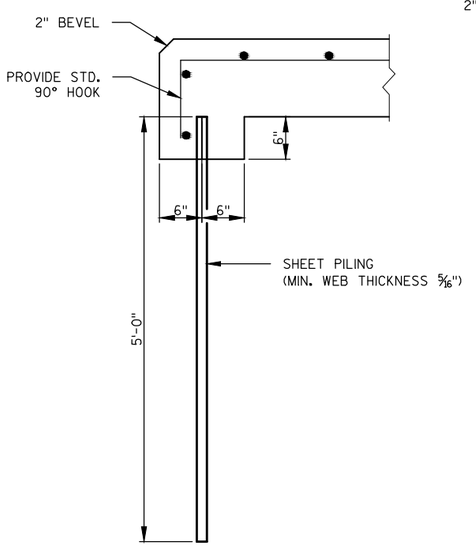
BAR SERIES

MARK	NO. REQUIRED	LENGTH
A411	4 SERIES OF 15	5'-7" TO 10'-2"
A412	4 SERIES OF 11	1'-7" TO 4'-10"
A413	8 SERIES OF 5	1'-10" TO 9-10"

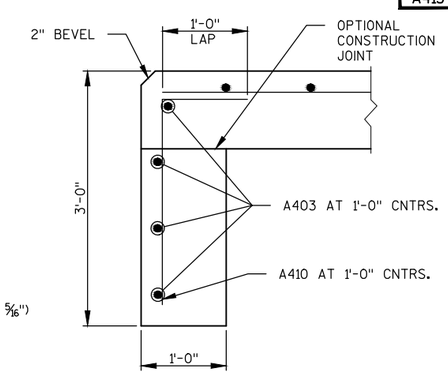


APRON REINFORCEMENT
INLET AND OUTLET SIMILAR

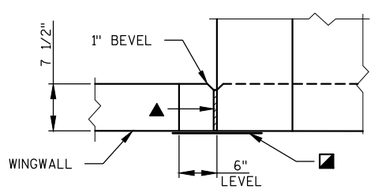




ALTERNATE CUT-OFF WALL
THE ABOVE ALTERNATE MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONCRETE CUT-OFF WALLS. PAYMENT WILL BE BASED ON THE CONCRETE CUT-OFF WALLS.



CUT OFF WALL
INLET AND OUTLET SIMILAR



CORNER DETAIL
SIMILAR AT ALL WINGWALLS

LEGEND

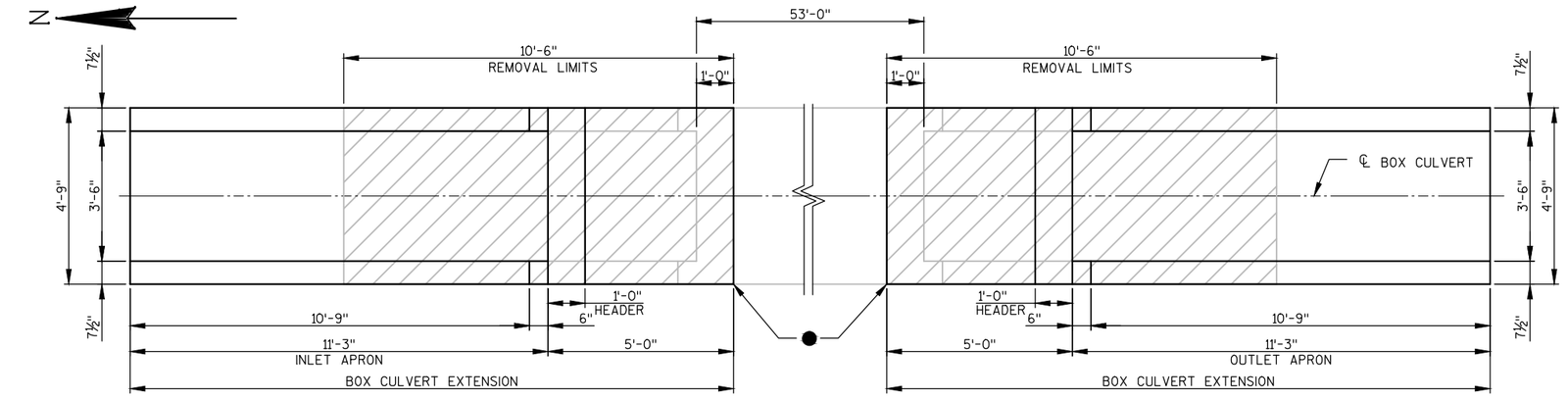
FF - FRONT FACE
BF - BACK FACE

◐ 18" MIN. WIDTH RUBBERIZED MEMBRANE WATERPROOFING ALONG HORIZ. CONSTR. JT. IN WING, TYP

◪ RUBBERIZED MEMBRANE WATERPROOFING EXTEND FROM HORIZ. CONST. JT. TO TOP OF WALL. (FLUSH WITH FACE OF CONCRETE)

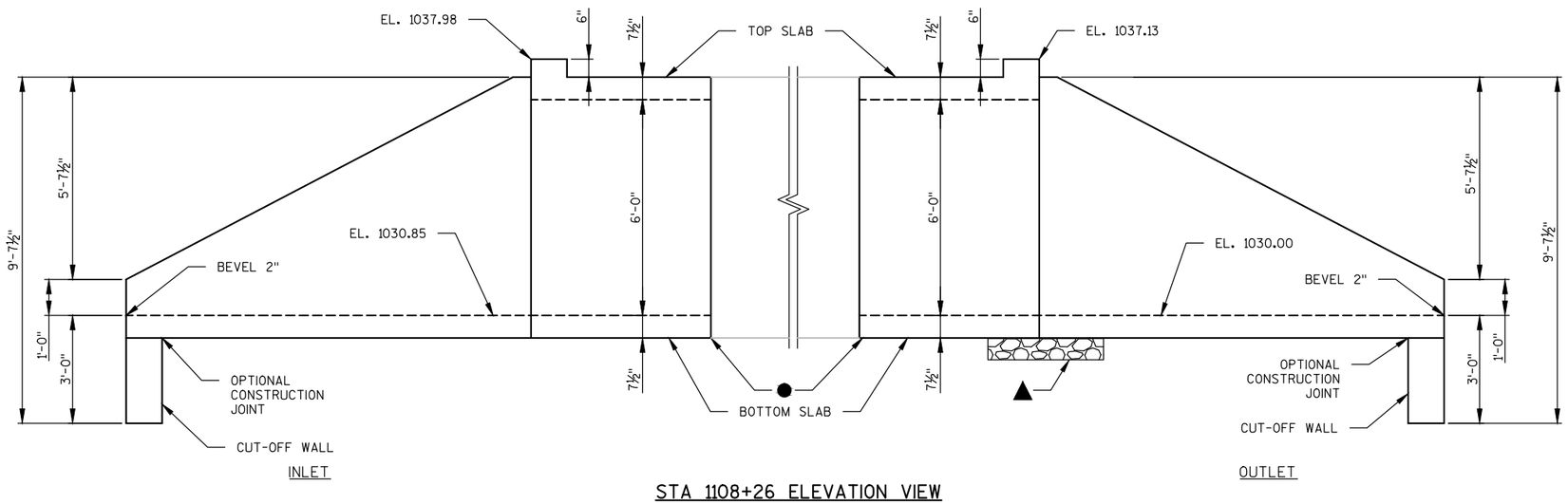
▲ ¾" FILLER TO EXTEND FROM HORIZONTAL CONSTRUCTION JOINT TO TOP OF WING.

** CUT A416 BARS IN SHORT END OF WINGWALL TO MAINTAIN CLEAR COVER.

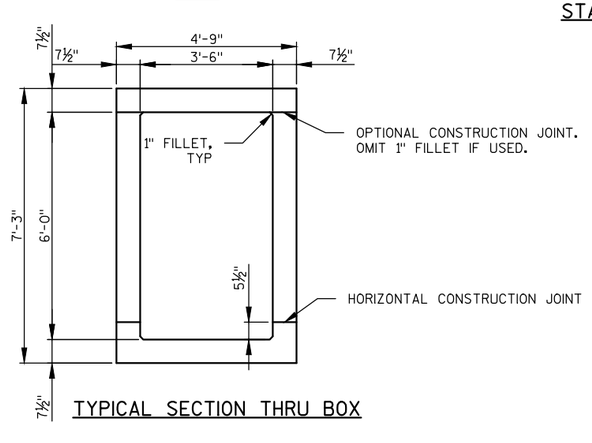


STA 1108+26 PLAN VIEW

42" x 72" BOX CULVERT



STA 1108+26 ELEVATION VIEW



TYPICAL SECTION THRU BOX

CULVERT QUANTITIES

BID ITEM NO.	BID ITEMS	UNIT	TOTALS
203.0200	REMOVING OLD STRUCTURE STATION 1108+26	LS	1
206.2000	EXCAVATION FOR STRUCTURES CULVERTS STA 1108+26	LS	1
210.2500	BACKFILL STRUCTURE TYPE B	TON	86
311.0110	BREAKER RUN	TON	24
502.4204	ADHESIVE ANCHORS NO. 4 BAR	EACH	52
504.0100	CONCRETE MASONRY CULVERTS	CY	14
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	1190
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1120
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	18
645.0105	GEOTEXTILE TYPE C	SY	46
	NON BID ITEMS		
	FILLER	SIZE	3/4"

NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS STA 1108+26" SHALL BE THE EXISTING GROUND LINE.

STRUCTURE BACKFILL IS REQUIRED BEHIND ALL WINGWALLS.

ALL VOLUME WHICH CANNOT BE PLACED BEFORE THE CULVERT CONSTRUCTION AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL WITHIN THE LENGTH OF THE CULVERT INCLUDING APRON WINGWALLS.

THE CONCRETE IN CUT OFF WALLS MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

THE ALTERNATIVE CUT OFF WALL MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONCRETE CUT OFF WALLS. PAYMENT SHALL BE BASED ON CONCRETE CUT OFF WALLS.

ALL STATIONS AND ELEVATIONS ARE IN FEET.

RUBBERIZED MEMBRANE WATERPROOFING AND FILLER TO EXTEND ALONG JOINT BETWEEN WING AND BOX FROM HORIZONTAL CONSTRUCTION JOINT TO TOP OF WING.

18" MIN. WIDTH RUBBERIZED MEMBRANE WATERPROOFING TO BE PLACED ALONG BF OF VERTICAL CONSTRUCTION JOINTS ALONG WALLS AND ACROSS THE TOP SLAB OF BOX CULVERT.

● THE EXISTING STRUCTURE AT STA. 1108+26 SHALL BE REMOVED TO THE LIMITS SHOWN. CONCRETE REMOVAL SHALL BE DEFINED BY A 1" DEEP SAW CUT.

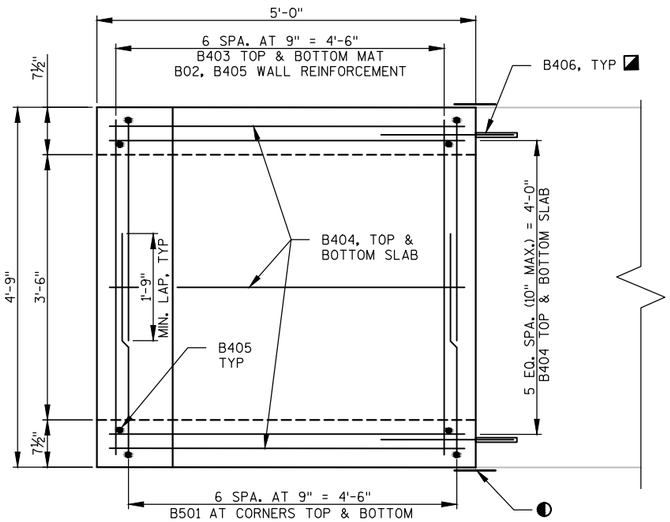
▲ UNDERCUT 1'-0". EXCAVATION SHALL BE INCLUDED IN EXCAVATION FOR STRUCTURES. PLACE "GEOTEXTILE TYPE C" AND BACKFILL WITH "BREAKER RUN".

IN LIEU OF USING BREAKER RUN FOR THE BOX CONSTRUCTION PLATFORM. THE CONTRACTOR MAY ELECT TO SUBSTITUTE #1 OR #2 CONCRETE COARSE AGGREGATE. SELECT CRUSHED MATERIAL OR OTHER GRANULAR MATERIAL AS APPROVED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR BASE STABILITY WITH ANY SUBSTITUTED MATERIAL. THE REGION GEOTECHNICAL ENGINEER MAY BE CONTACTED TO DETERMINE IF "OTHER GRANULAR MATERIAL" IS ACCEPTABLE.

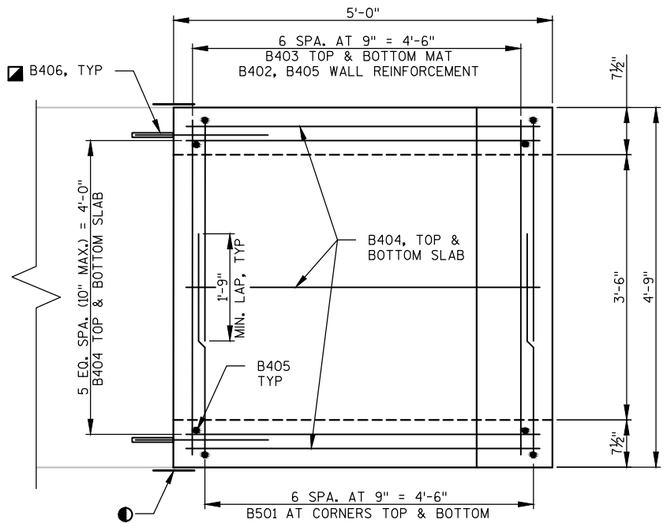
STEEL REINFORCEMENT SHALL BE GRADE 60 DEFORMED BARS (FY = 60,000 P.S.I.).

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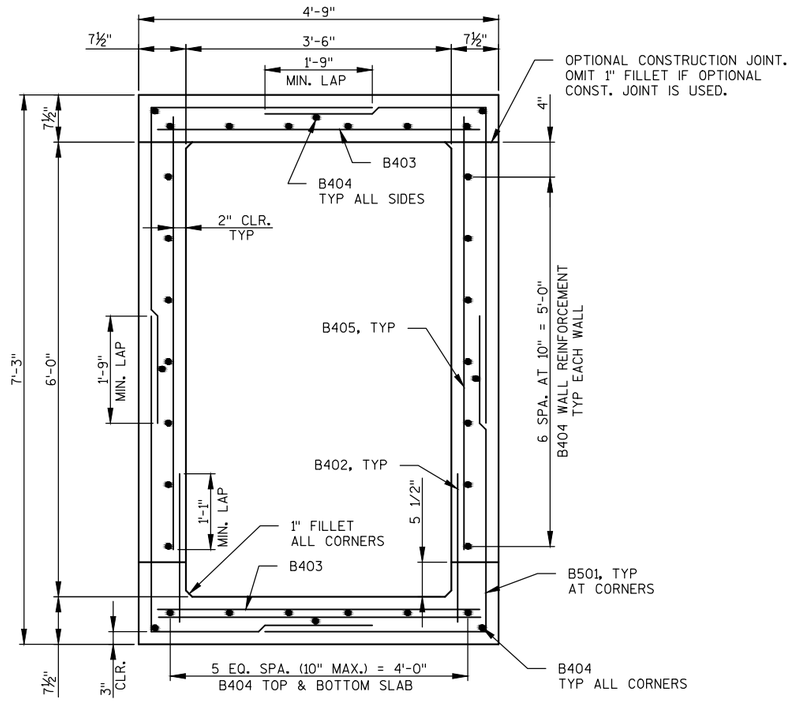
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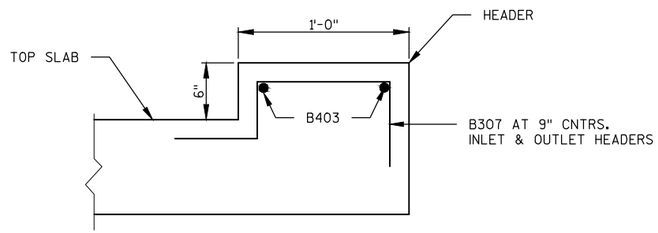
PLAN VIEW INLET PANEL



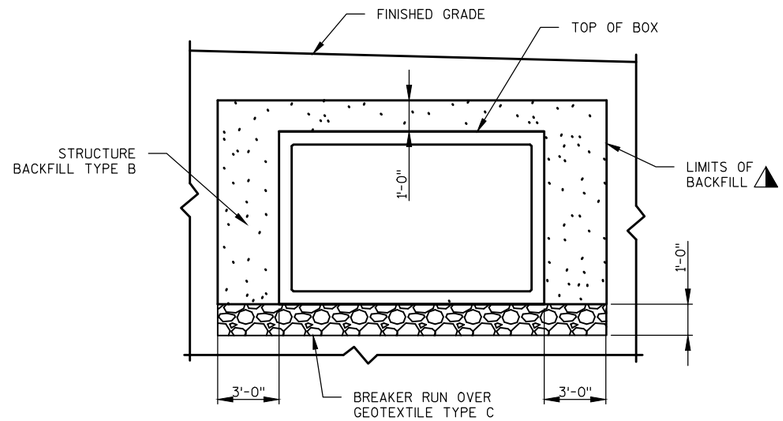
PLAN VIEW OUTLET PANEL



SECTION THRU BOX



TYPICAL SECTION THRU CULVERT HEADERS



STRUCTURE BACKFILL DETAIL

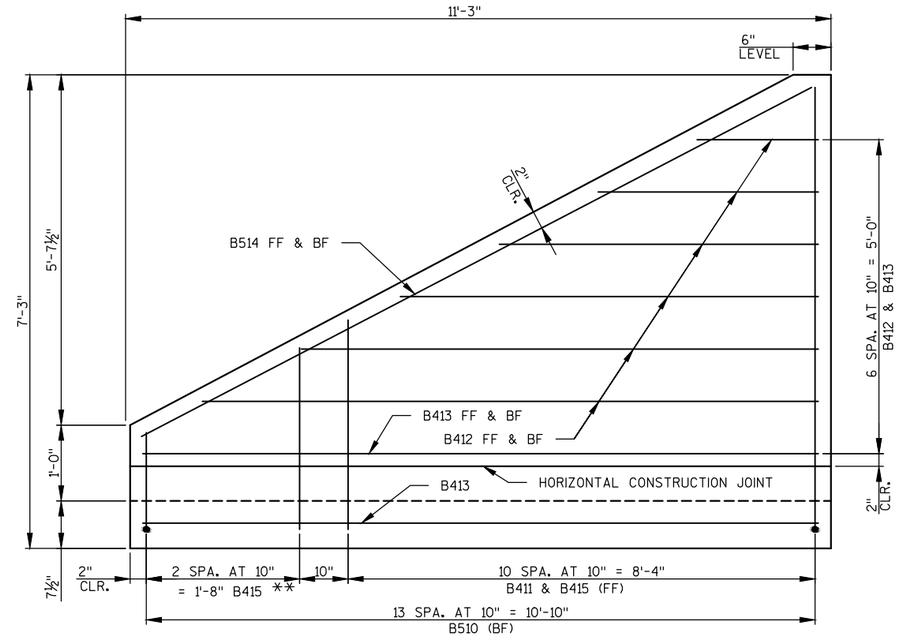
BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

LEGEND

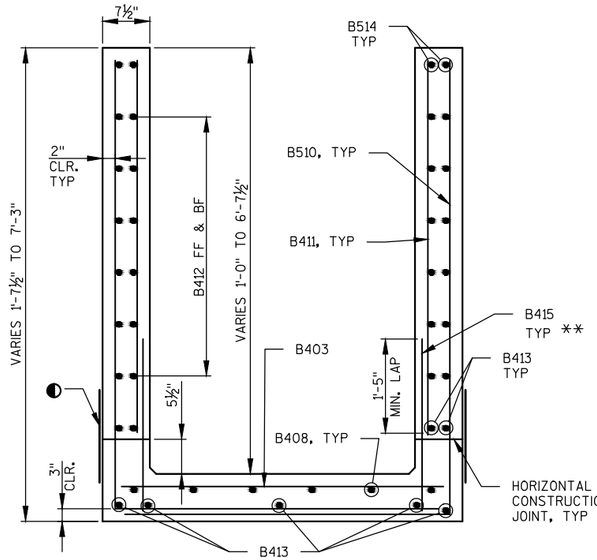
ADHESIVE ANCHORS NO. 4 BAR. PLACE ANCHORS IN CENTER OF WALLS, TOP SLAB AND BOTTOM SLAB OF EXISITNG BOX AT 10" MAX SPACING. EMBED 6" IN CONCRETE.

RUBBERIZED MEMBRANE WATERPROOFING SHALL BE PLACED OVER THE JOINTS ON THE TOP AND SIDES OF THE BOX CULVERT.

PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	PLAN: STA 1108+26 BOX CULVERT DETAILS	SHEET 16	E



WINGWALL ELEVATION
BACK FACE



SECTION THRU WINGWALLS

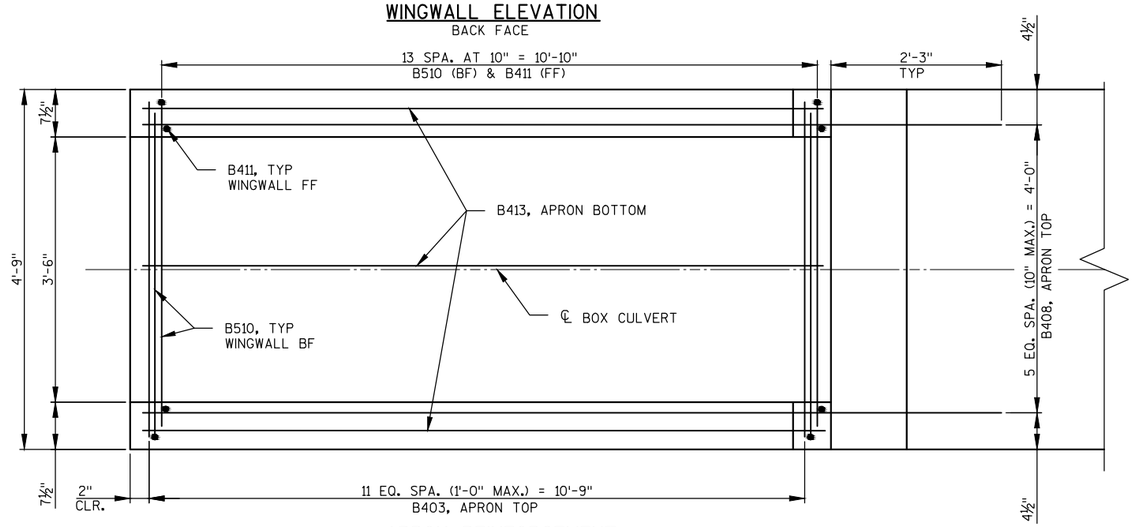
BILL OF BARS **COATED= 1120 LBS**
BOX CULVERT **UNCOATED= 1190 LBS**

MARK	NUMBER COATED	NUMBER UNCOATED	LENGTH FT - IN	BENT	BAR SERIES	LOCATION	
B 5 01		56	7 - 4	X		BOX CORNERS	VERT
B 4 02		28	2 - 1			BOX - DOWELS	VERT
B 4 03		62	4 - 5			BOX HORIZ. - TOP SLAB , BOTTOM SLAB, APRON & HEADER	TRANS
B 4 04		68	4 - 8			BOX HORIZONTAL	LONG
B 4 05		28	5 - 10			BOX - WALLS	VERT
B 4 06		52	2 - 0			BOX ANCHORS	HORIZ
B 3 07		14	2 - 1	X		BOX HEADER	VERT
B 4 08		12	13 - 4			APRON	LONG
B 4 09		12	3 - 6	X		CUT-OFF WALL	VERT
B 5 10	56		8 - 5	X	X	WINGWALLS BF	VERT
B 4 11	44		3 - 9		X	WINGWALLS FF	VERT
B 4 12	48		5 - 10		X	WINGWALLS FF & BF	HORIZ
B 4 13	18		10 - 11			WINGWALLS FF & BF, APRON BOTTOM	HORIZ
B 5 14	8		12 - 3			WINGWALLS TOP	HORIZ
B 4 15	56		2 - 5			WINGWALLS DOWELS	VERT

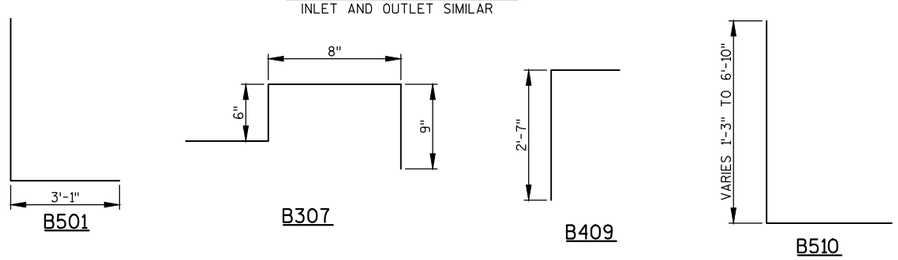
BAR DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BARS.
ALL REINFORCING BARS ARE ENGLISH.
AVERAGE LENGTH OF BAR SERIES USED FOR DETERMINING BAR WEIGHT ONLY.
SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

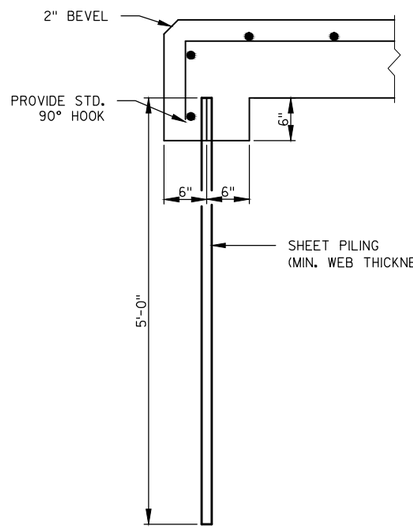
BAR SERIES TABLE

MARK	NO. REQUIRED	LENGTH
B510	4 SERIES OF 14	5'-7" TO 11'-2"
B411	4 SERIES OF 11	1'-7" TO 5'-10"
B412	8 SERIES OF 6	1'-10" TO 9-10"

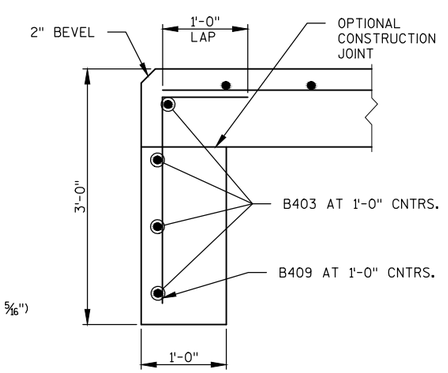


APRON REINFORCEMENT
INLET AND OUTLET SIMILAR

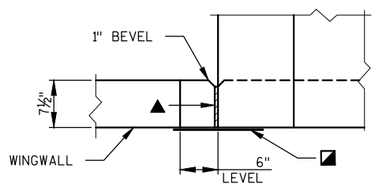




ALTERNATE CUT-OFF WALL
THE ABOVE ALTERNATE MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONCRETE CUT-OFF WALLS. PAYMENT WILL BE BASED ON THE CONCRETE CUT-OFF WALLS.



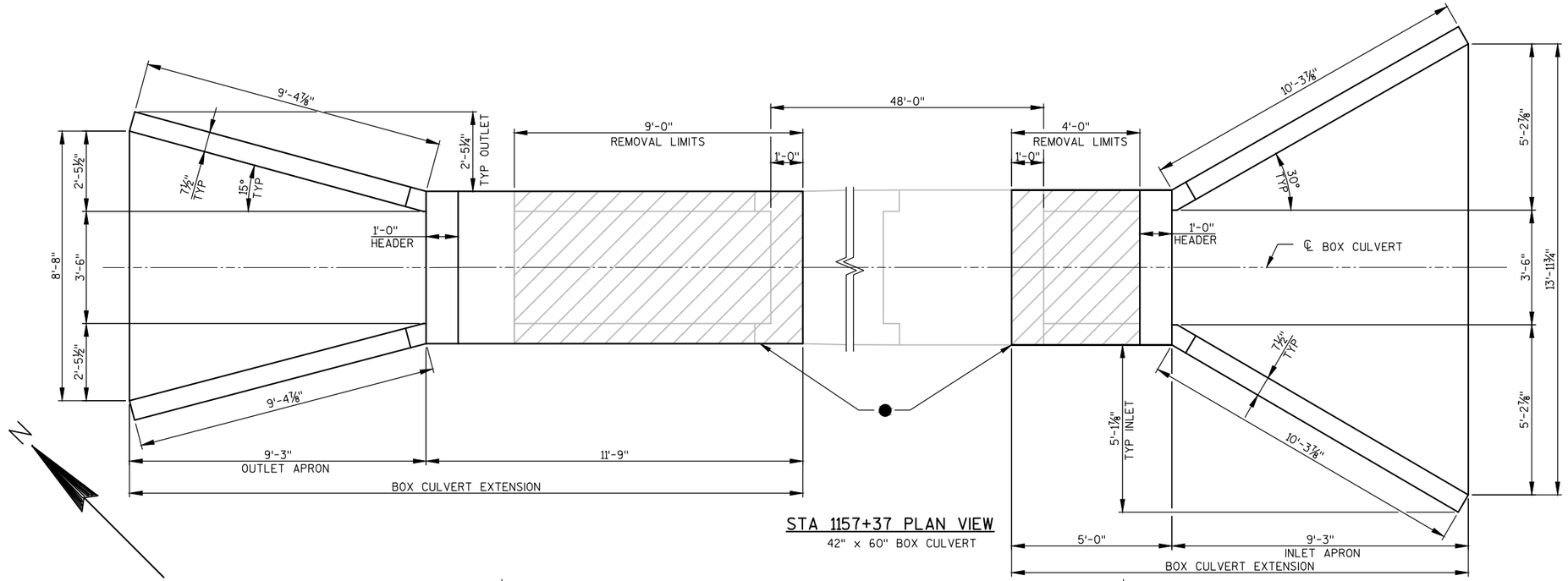
CUT OFF WALL
INLET AND OUTLET SIMILAR



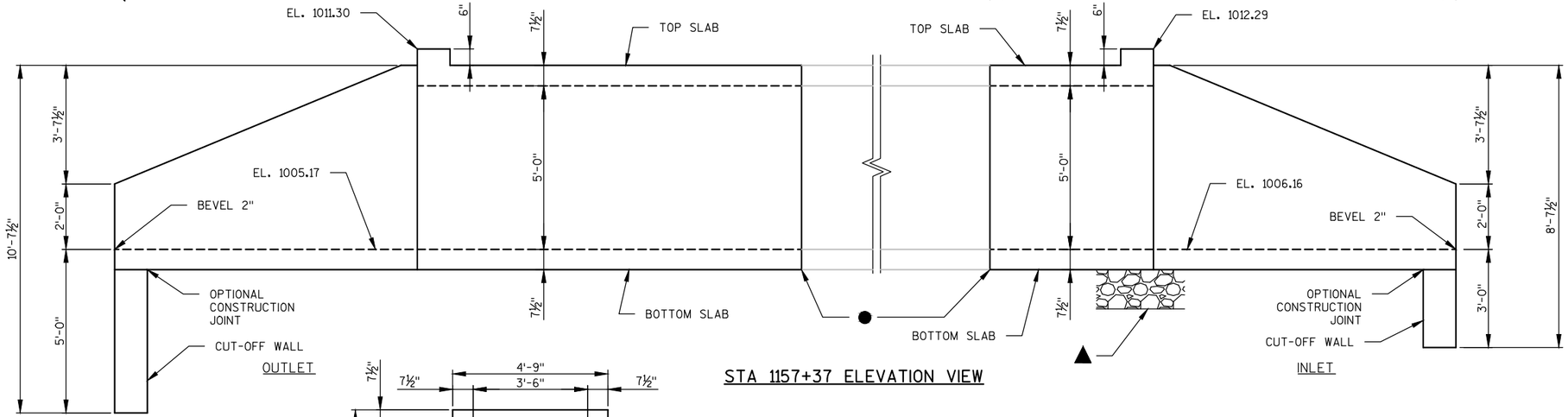
CORNER DETAIL
SIMILAR AT ALL WINGWALLS

LEGEND
FF - FRONT FACE
BF - BACK FACE
◐ 18" MIN. WIDTH RUBBERIZED MEMBRANE WATERPROOFING ALONG HORIZ. CONSTR. JT. IN WING, TYP
◪ RUBBERIZED MEMBRANE WATERPROOFING EXTEND FROM HORIZ. CONST. JT. TO TOP OF WALL. (FLUSH WITH FACE OF CONCRETE)
▲ ¾" FILLER TO EXTEND FROM HORIZONTAL CONSTRUCTION JOINT TO TOP OF WING.
** CUT B415 BARS IN SHORT END OF WING WALL TO MAINTAIN CLEAR COVER.

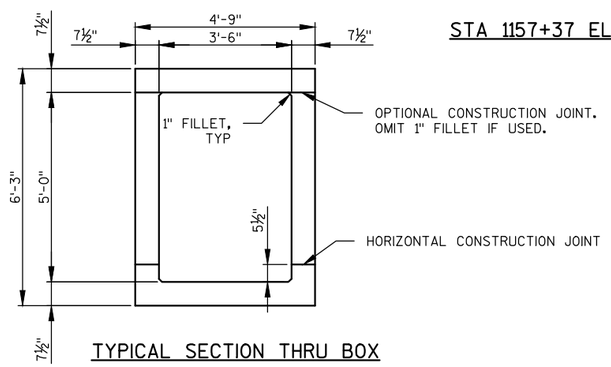
PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	PLAN: STA 1108+26 BOX CULVERT DETAILS	SHEET 17	E



STA 1157+37 PLAN VIEW
42" x 60" BOX CULVERT



STA 1157+37 ELEVATION VIEW



TYPICAL SECTION THRU BOX

NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS STA 1157+37" SHALL BE THE EXISTING GROUND LINE.

STRUCTURE BACKFILL IS REQUIRED BEHIND ALL WINGWALLS.

ALL VOLUME WHICH CANNOT BE PLACED BEFORE THE CULVERT CONSTRUCTION AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL WITHIN THE LENGTH OF THE CULVERT INCLUDING APRON WINGWALLS.

THE CONCRETE IN CUT OFF WALLS MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

THE ALTERNATIVE CUT OFF WALL MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONCRETE CUT OFF WALLS. PAYMENT SHALL BE BASED ON CONCRETE CUT OFF WALLS.

ALL STATIONS AND ELEVATIONS ARE IN FEET.

RUBBERIZED MEMBRANE WATERPROOFING AND FILLER TO EXTEND ALONG JOINT BETWEEN WING AND BOX FROM HORIZONTAL CONSTRUCTION JOINT TO TOP OF WING.

18" MIN. WIDTH RUBBERIZED MEMBRANE WATERPROOFING TO BE PLACED ALONG BF OF VERTICAL CONSTRUCTION JOINTS ALONG WALLS AND ACROSS THE TOP SLAB OF BOX CULVERT.

● THE EXISTING STRUCTURE AT STA. 1157+37 SHALL BE REMOVED TO THE LIMITS SHOWN. CONCRETE REMOVAL SHALL BE DEFINED BY A 1" DEEP SAW CUT.

▲ UNDERCUT 1'-0". EXCAVATION SHALL BE INCLUDED IN EXCAVATION FOR STRUCTURES. PLACE "GEOTEXTILE TYPE C" AND BACKFILL WITH "BREAKER RUN".

IN LIEU OF USING BREAKER RUN FOR THE BOX CONSTRUCTION PLATFORM. THE CONTRACTOR MAY ELECT TO SUBSTITUTE #1 OR #2 CONCRETE COARSE AGGREGATE, SELECT CRUSHED MATERIAL OR OTHER GRANULAR MATERIAL AS APPROVED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR BASE STABILITY WITH ANY SUBSTITUTED MATERIAL. THE REGION GEOTECHNICAL ENGINEER MAY BE CONTACTED TO DETERMINE IF "OTHER GRANULAR MATERIAL" IS ACCEPTABLE.

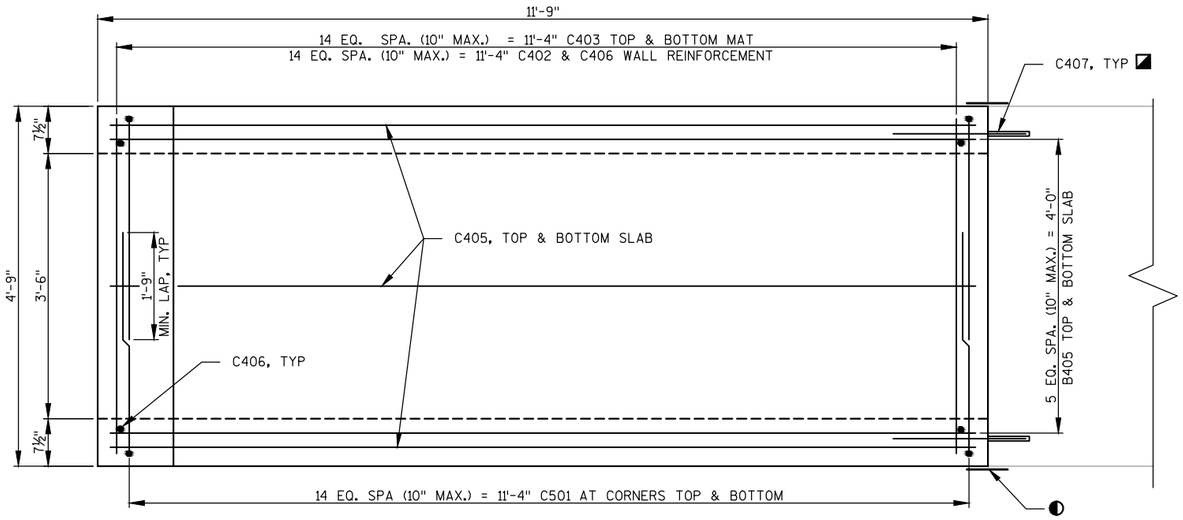
STEEL REINFORCEMENT SHALL BE GRADE 60 DEFORMED BARS (FY = 60,000 P.S.I.).

THE ULTIMATE COMPRESSIVE STRENGTH OF THE FIELD POURED CONCRETE SHALL BE 3,500 P.S.I.

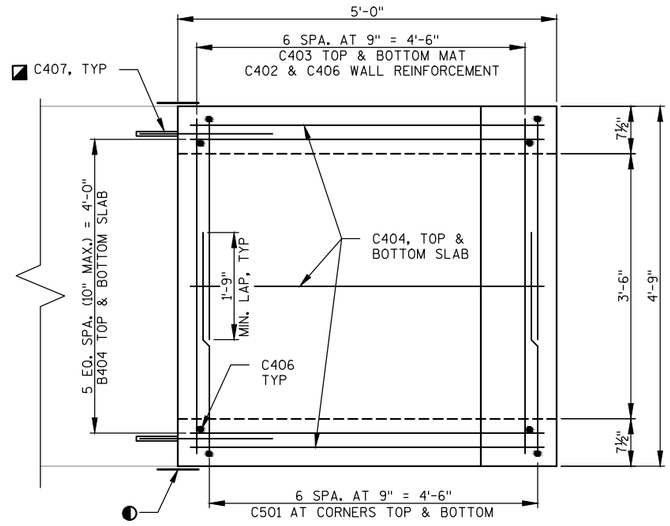
THE CONTRACTOR MAY FURNISH A PRECAST CONCRETE BOX CULVERT IN LIEU OF THE CAST-IN-PLACE BOX CULVERT WITH THE ACCEPTANCE OF THE SHOP DRAWINGS BY THE STRUCTURES DESIGN SECTION. THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO PRECAST DETAILS IN CHAPTER 36 STANDARDS OF THE CURRENT WISCONSIN DOT BRIDGE MANUAL. PAYMENT FOR THE PRECAST CULVERT SHALL BE BASED ON THE QUANTITIES AND PRICES BID FOR THE ITEMS LISTED IN THE "TOTAL ESTIMATED QUANTITIES".

BID ITEM NO.	BID ITEMS	UNIT	TOTALS
203.0200	REMOVING OLD STRUCTURE STATION 1157+37	LS	1
206.2000	EXCAVATION FOR STRUCTURES CULVERTS STA 1157+37	LS	1
210.2500	BACKFILL STRUCTURE TYPE B	TON	108
311.0110	BREAKER RUN	TON	24
502.4204	ADHESIVE ANCHORS NO. 4 BAR	EACH	48
504.0100	CONCRETE MASONRY CULVERTS	CY	19
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	1740
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	840
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	16
645.0105	GEOTEXTILE TYPE C	SY	47
	NON BID ITEMS		
	FILLER	SIZE	3/4"

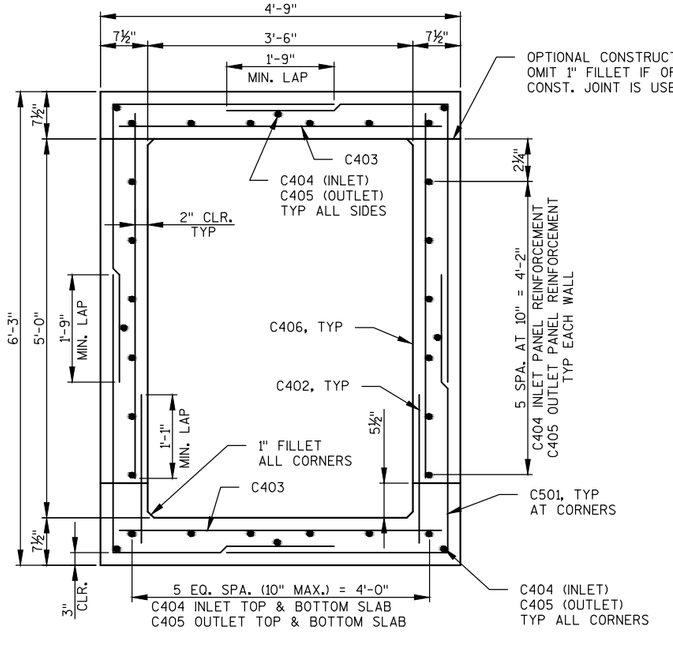
PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	PLAN: STA 1157+37 BOX CULVERT DETAILS	SHEET 18	E



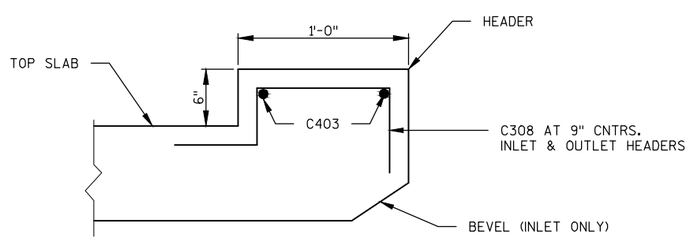
PLAN VIEW OUTLET PANEL



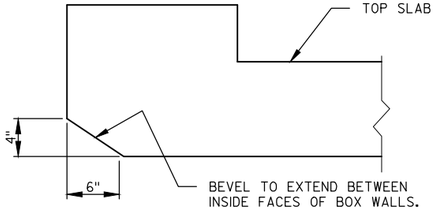
PLAN VIEW INLET PANEL



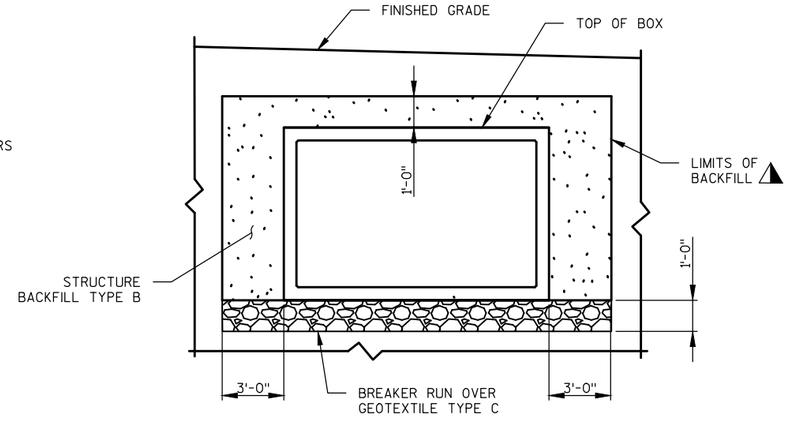
SECTION THRU BOX



TYPICAL SECTION THRU CULVERT HEADERS



TYPICAL SECTION THRU INLET HEADER



STRUCTURE BACKFILL DETAIL

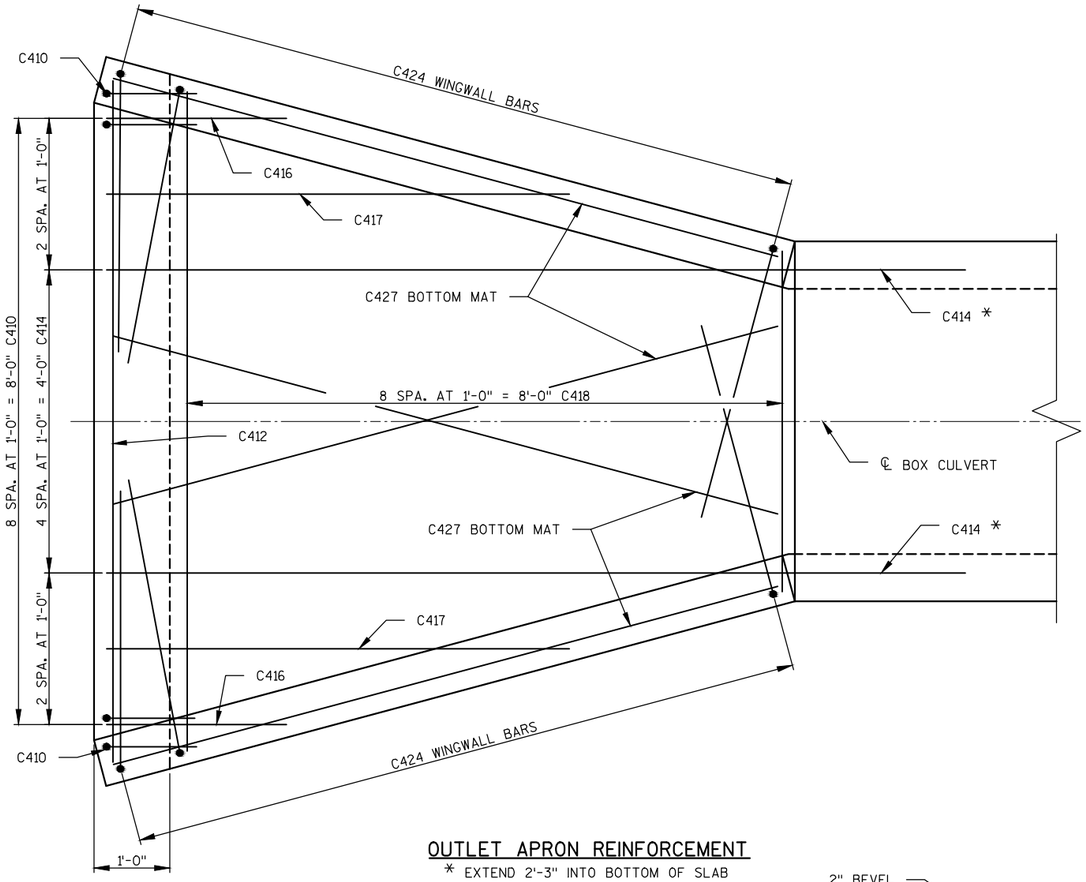
BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

LEGEND

ADHESIVE ANCHORS NO. 4 BAR. PLACE ANCHORS IN CENTER OF WALLS, TOP SLAB AND BOTTOM SLAB OF EXISTING BOX AT 10" MAX. SPACING. EMBED 6" IN CONCRETE.

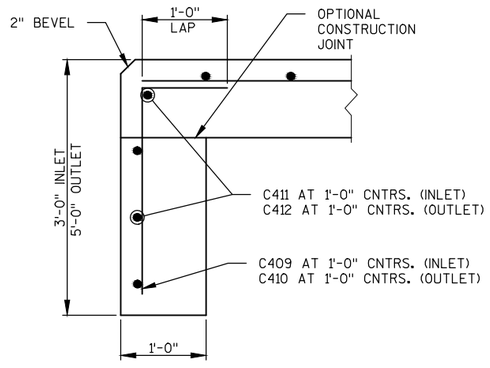
RUBBERIZED MEMBRANE WATERPROOFING SHALL BE PLACED OVER THE JOINTS ON THE TOP AND SIDES OF THE BOX CULVERT.

PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	PLAN: STA 1157+37 BOX CULVERT DETAILS	SHEET 19	E

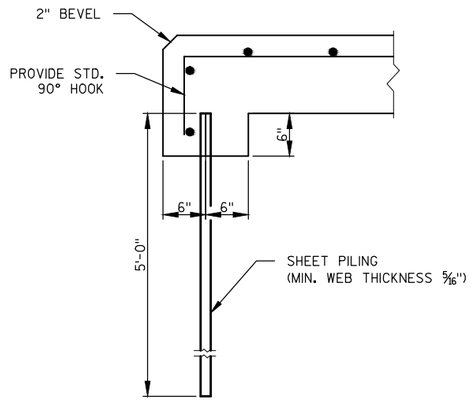


OUTLET APRON REINFORCEMENT

* EXTEND 2'-3" INTO BOTTOM OF SLAB

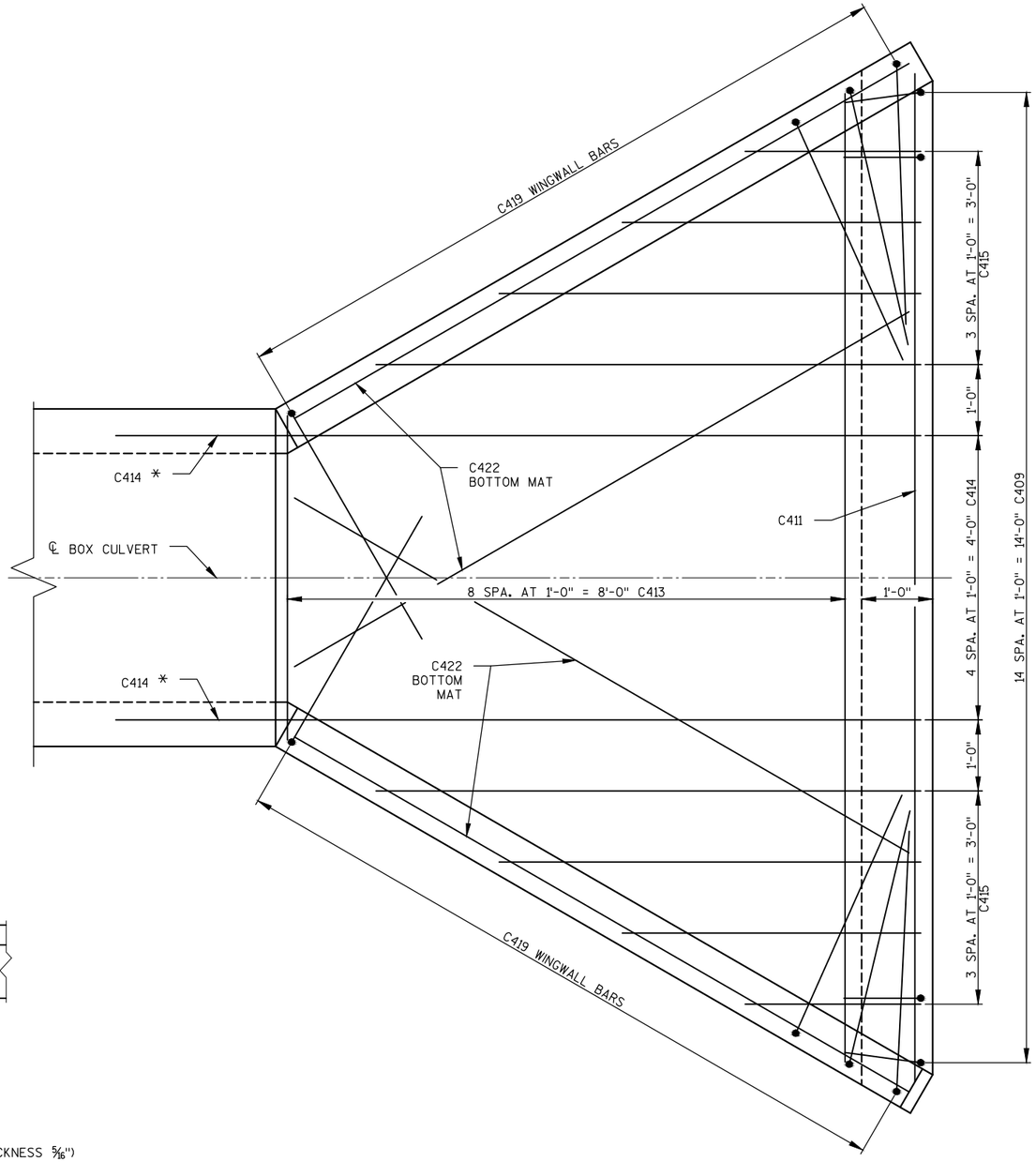


CUT OFF WALL



ALTERNATE CUT-OFF WALL

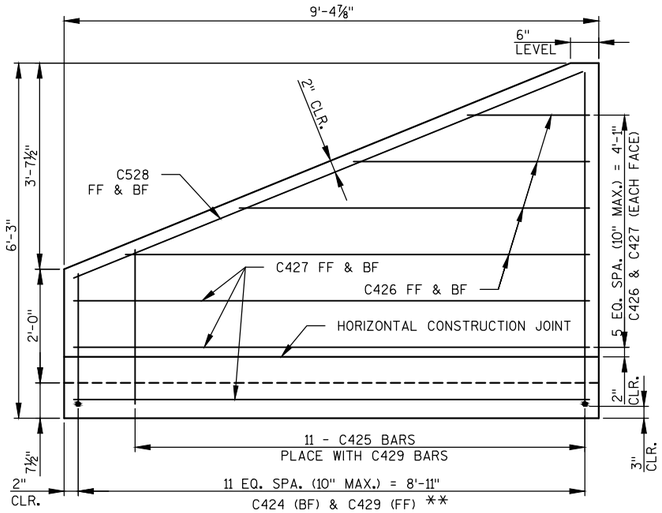
THE ABOVE ALTERNATE MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONCRETE CUT-OFF WALLS. PAYMENT WILL BE BASED ON THE CONCRETE CUT-OFF WALLS.



INLET APRON REINFORCEMENT

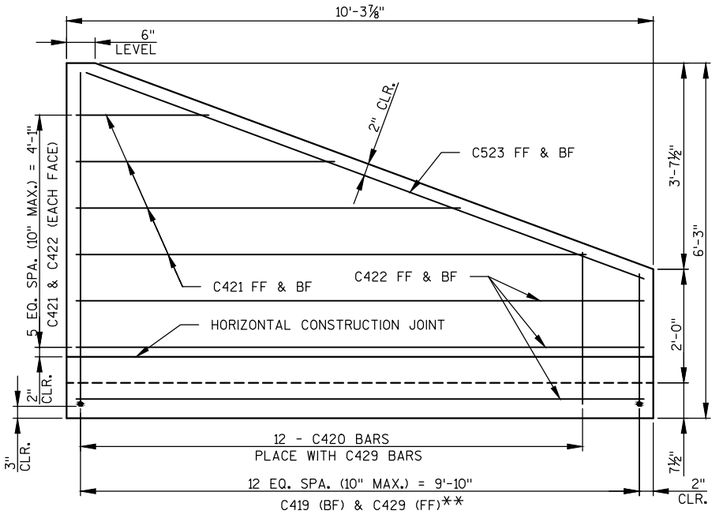
* EXTEND 2'-3" INTO BOTTOM OF SLAB

PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	PLAN: STA 1157+37 BOX CULVERT DETAILS	SHEET 20	E



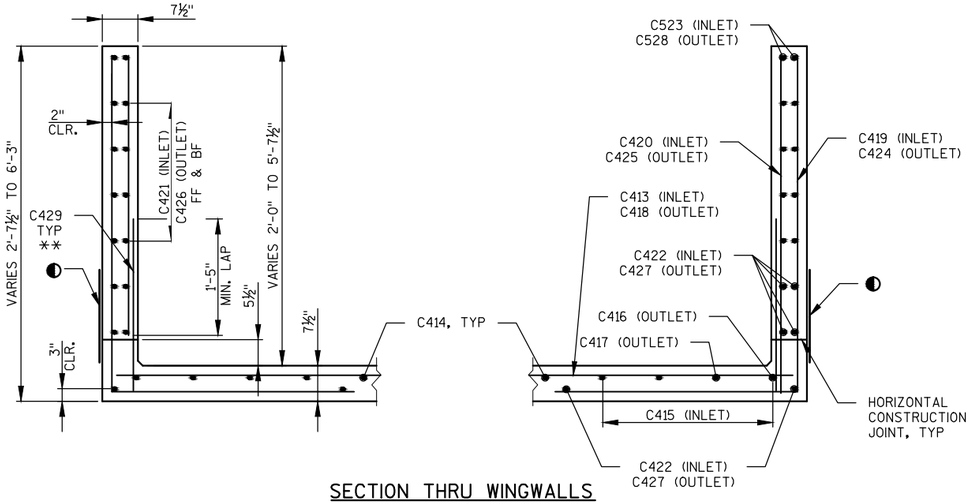
OUTLET WINGWALL ELEAVTION

BACK FACE

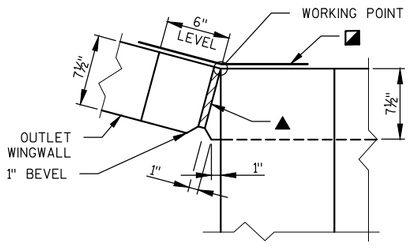


INLET WINGWALL ELEAVTION

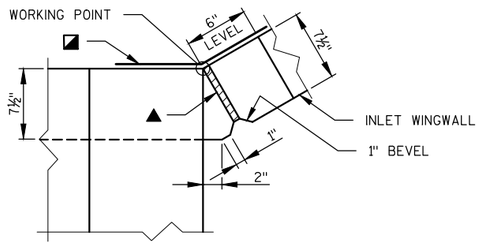
BACK FACE



SECTION THRU WINGWALLS



OUTLET CORNER DETAIL



INLET CORNER DETAIL

LEGEND

FF - FRONT FACE
BF - BACK FACE

◐ 18" MIN. WIDTH RUBBERIZED MEMBRANE WATERPROOFING ALONG HORIZ. CONSTR. JT. IN WING, TYP

◪ RUBBERIZED MEMBRANE WATERPROOFING EXTEND FROM HORIZ. CONST. JT. TO TOP OF WALL. (FLUSH WITH FACE OF CONCRETE)

▲ ¾" FILLER TO EXTEND FROM HORIZONTAL CONSTRUCTION JOINT TO TOP OF WING.

** CUT C429 IN SHORT END OF WINGWALL TO MAINTAIN CLEAR COVER.

BILL OF BARS
BOX CULVERT

COATED= 840 LBS
UNCOATED= 1740 LBS

MARK	NUMBER COATED	NUMBER UNCOATED	LENGTH FT - IN	BENT	BAR SERIES	LOCATION	
C 5 01		88	6 - 10	X		BOX CORNERS	VERT
C 4 02		44	2 - 1			BOX - DOWELS	VERT
C 4 03		44	4 - 5			BOX HORIZ. - TOP & BOTTOM SLAB, APRON & HEADER	TRANS
C 4 04		32	4 - 8			BOX - INLET	LONG
C 4 05		32	11 - 5			BOX - OUTLET	VERT
C 4 06		44	4 - 10			BOX - WALLS	VERT
C 4 07		48	2 - 1			BOX ANCHORS	HORIZ
C 3 08		14	2 - 0	X		BOX HEADER	VERT
C 4 09		15	3 - 6	X		INLET CUT-OFF WALL	VERT
C 4 10		11	5 - 6	X		OUTLET CUT-OFF WALL	VERT
C 4 11		4	13 - 9			INLET CUT-OFF WALL	TRANS
C 4 12		6	8 - 3			OUTLET CUT-OFF WALL	TRANS
C 4 13		9	9 - 2		X	INLET APRON	TRANS
C 4 14		10	11 - 4			INLET & OUTLET APRON	LONG
C 4 15		8	5 - 1		X	INLET APRON	LONG
C 4 16		2	2 - 4			OUTLET APRON	LONG
C 4 17		2	6 - 1			OUTLET APRON	LONG
C 4 18		9	6 - 7		X	OUTLET APRON	TRANS
C 4 19	26		9 - 2	X	X	INLET WINGWALLS BF	VERT
C 4 20	24		3 - 3		X	INLET WINGWALLS FF	VERT
C 4 21	16		5 - 8		X	INLET WINGWALLS FF & BF	HORIZ
C 4 22	12		9 - 11			INLET WINGWALLS FF & BF, APRON BOTTOM	HORIZ
C 5 23	4		10 - 5			INLET WINGWALLS TOP	HORIZ
C 4 24	24		9 - 2	X	X	OUTLET WINGWALLS BF	VERT
C 4 25	22		3 - 3		X	OUTLET WINGWALLS FF	VERT
C 4 26	16		5 - 2		X	OUTLET WINGWALLS FF & BF	HORIZ
C 4 27	12		9 - 0			OUTLET WINGWALLS FF & BF, APRON BOTTOM	HORIZ
C 5 28	4		9 - 8			OUTLET WINGWALLS TOP	HORIZ
C 4 29	50		2 - 5			WINGWALLS DOWELS	VERT

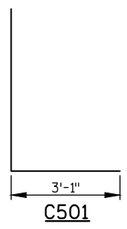
BAR DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BARS.

ALL REINFORCING BARS ARE ENGLISH.

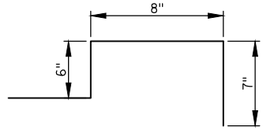
AVERAGE LENGTH OF BAR SERIES USED FOR DETERMINING BAR WEIGHT ONLY. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BAR SERIES TABLE

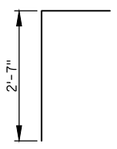
MARK	NO. REQUIRED	LENGTH
C413	1 SERIES OF 9	4'-6" TO 13'-8"
C415	2 SERIES OF 4	2'-5" TO 7'-8"
C418	1 SERIES OF 9	4'-6" TO 8'-8"
C419	2 SERIES OF 13	7'-4" TO 10'-11"
C420	2 SERIES OF 12	1'-7" TO 4'-10"
C421	4 SERIES OF 4	2'-4" TO 9'-0"
C424	2 SERIES OF 12	7'-4" TO 10'-11"
C425	2 SERIES OF 11	1'-7" TO 4'-10"
C426	4 SERIES OF 4	2'-2" TO 8'-2"



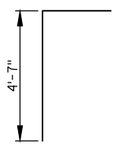
C501



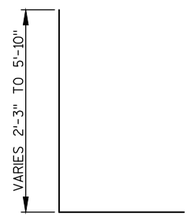
C308



C409

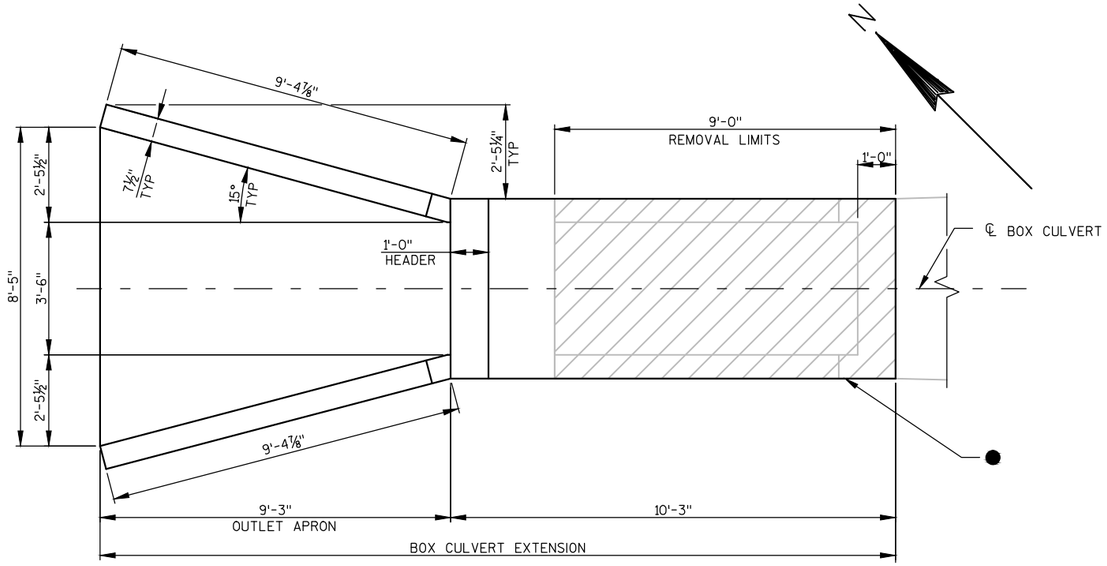


C410



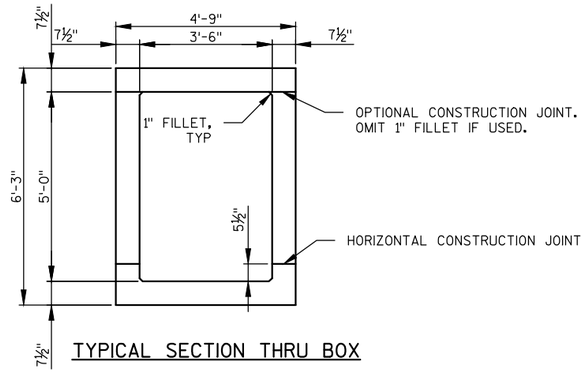
C419 & C424

PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	PLAN: STA 1157+37 BOX CULVERT DETAILS	SHEET 21	E

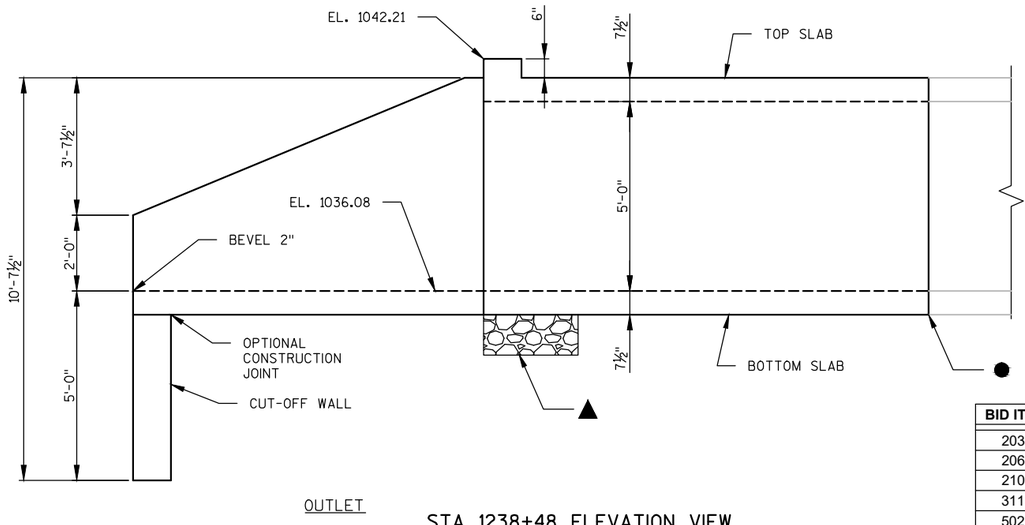


STA 1238+48 PLAN VIEW

42" x 60" BOX CULVERT



TYPICAL SECTION THRU BOX



STA 1238+48 ELEVATION VIEW

BID ITEM NO.	BID ITEMS	UNIT	TOTALS
203.0200	REMOVING OLD STRUCTURE STATION 1238+48	LS	1
206.2000	EXCAVATION FOR STRUCTURES CULVERTS STA 1238+48	LS	1
210.2500	BACKFILL STRUCTURE TYPE B	TON	60
311.0110	BREAKER RUN	TON	13
502.4204	ADHESIVE ANCHORS NO. 4 BAR	EACH	24
504.0100	CONCRETE MASONRY CULVERTS	CY	10
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	1040
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	410
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	8
645.0105	GEOTEXTILE TYPE C	SY	24
	NON BID ITEMS		
	FILLER	SIZE	3/4"

NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS STA 1238+48" SHALL BE THE EXISTING GROUND LINE.

STRUCTURE BACKFILL IS REQUIRED BEHIND ALL WINGWALLS.

ALL VOLUME WHICH CANNOT BE PLACED BEFORE THE CULVERT CONSTRUCTION AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL WITHIN THE LENGTH OF THE CULVERT INCLUDING APRON WINGWALLS.

THE CONCRETE IN CUT OFF WALLS MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

THE ALTERNATIVE CUT OFF WALL MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONCRETE CUT OFF WALLS. PAYMENT SHALL BE BASED ON CONCRETE CUT OFF WALLS.

ALL STATIONS AND ELEVATIONS ARE IN FEET.

RUBBERIZED MEMBRANE WATERPROOFING AND FILLER TO EXTEND ALONG JOINT BETWEEN WING AND BOX FROM HORIZONTAL CONSTRUCTION JOINT TO TOP OF WING.

18" MIN. WIDTH RUBBERIZED MEMBRANE WATERPROOFING TO BE PLACED ALONG BF OF VERTICAL CONSTRUCTION JOINTS ALONG WALLS AND ACROSS THE TOP SLAB OF BOX CULVERT.

● THE EXISTING STRUCTURE AT STA. 1238+48 SHALL BE REMOVED TO THE LIMITS SHOWN. CONCRETE REMOVAL SHALL BE DEFINED BY A 1" DEEP SAW CUT.

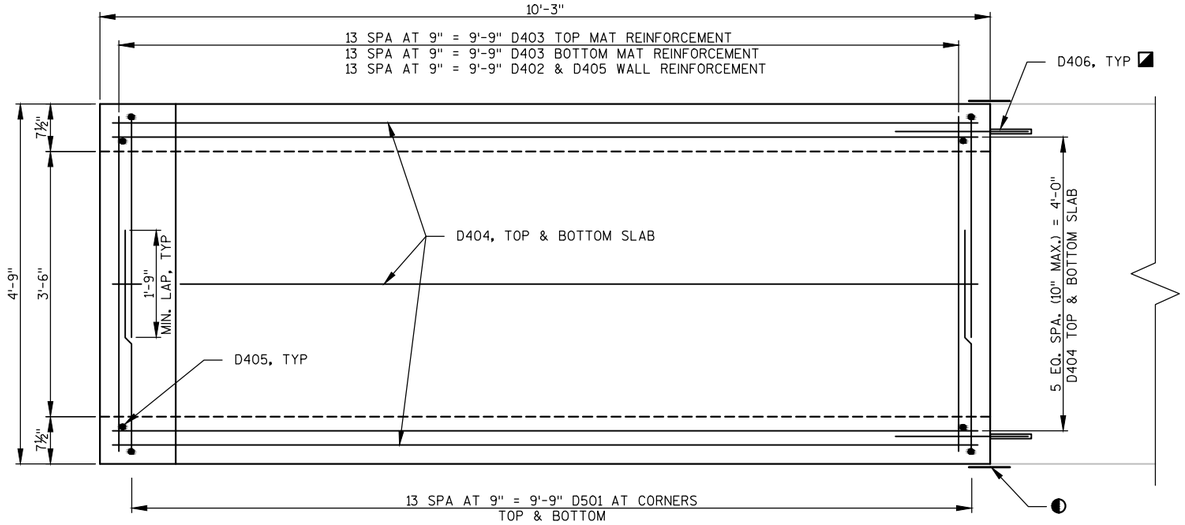
▲ UNDERCUT 1'-0". EXCAVATION SHALL BE INCLUDED IN EXCAVATION FOR STRUCTURES. PLACE "GEOTEXTILE TYPE C" AND BACKFILL WITH "BREAKER RUN".

IN LIEU OF USING BREAKER RUN FOR THE BOX CONSTRUCTION PLATFORM. THE CONTRACTOR MAY ELECT TO SUBSTITUTE #1 OR #2 CONCRETE COARSE AGGREGATE, SELECT CRUSHED MATERIAL OR OTHER GRANULAR MATERIAL AS APPROVED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR BASE STABILITY WITH ANY SUBSTITUTED MATERIAL. THE REGION GEOTECHNICAL ENGINEER MAY BE CONTACTED TO DETERMINE IF "OTHER GRANULAR MATERIAL" IS ACCEPTABLE.

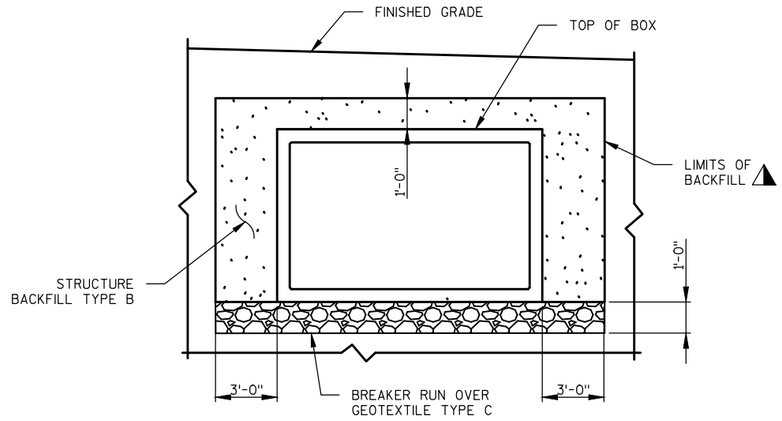
STEEL REINFORCEMENT SHALL BE GRADE 60 DEFORMED BARS (FY = 60,000 P.S.I.).

THE ULTIMATE COMPRESSIVE STRENGTH OF THE FIELD POURED CONCRETE SHALL BE 3,500 P.S.I.

THE CONTRACTOR MAY FURNISH A PRECAST CONCRETE BOX CULVERT IN LIEU OF THE CAST-IN-PLACE BOX CULVERT WITH THE ACCEPTANCE OF THE SHOP DRAWINGS BY THE STRUCTURES DESIGN SECTION. THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO PRECAST DETAILS IN CHAPTER 36 STANDARDS OF THE CURRENT WISCONSIN DOT BRIDGE MANUAL. PAYMENT FOR THE PRECAST CULVERT SHALL BE BASED ON THE QUANTITIES AND PRICES BID FOR THE ITEMS LISTED IN THE "TOTAL ESTIMATED QUANTITIES".



PLAN VIEW OUTLET PANEL



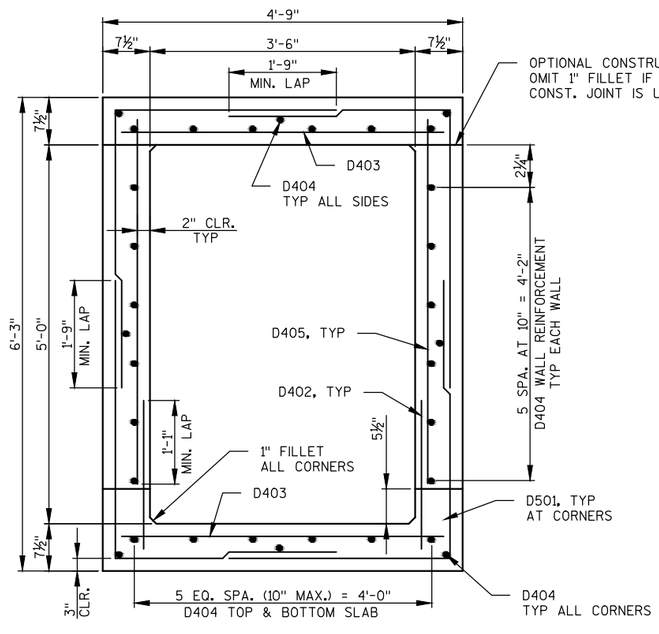
STRUCTURE BACKFILL DETAIL

BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

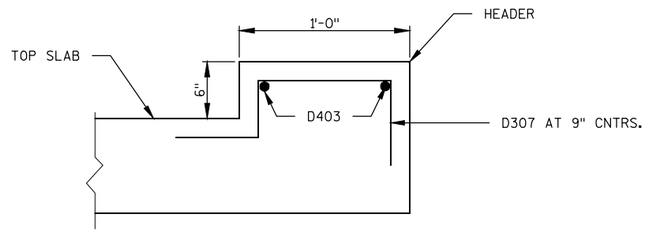
LEGEND

ADHESIVE ANCHORS NO. 4 BAR. PLACE CENTERED IN WALL, TOP SLAB AND BOTTOM SLAB AT 10" MAX SPACING IN ALL FACES OF BOX CULVERT. EMBED 6" IN CONCRETE.

RUBBERIZED MEMBRANE WATERPROOFING SHALL BE PLACED OVER THE JOINTS ON THE TOP AND SIDES OF THE BOX CULVERT.

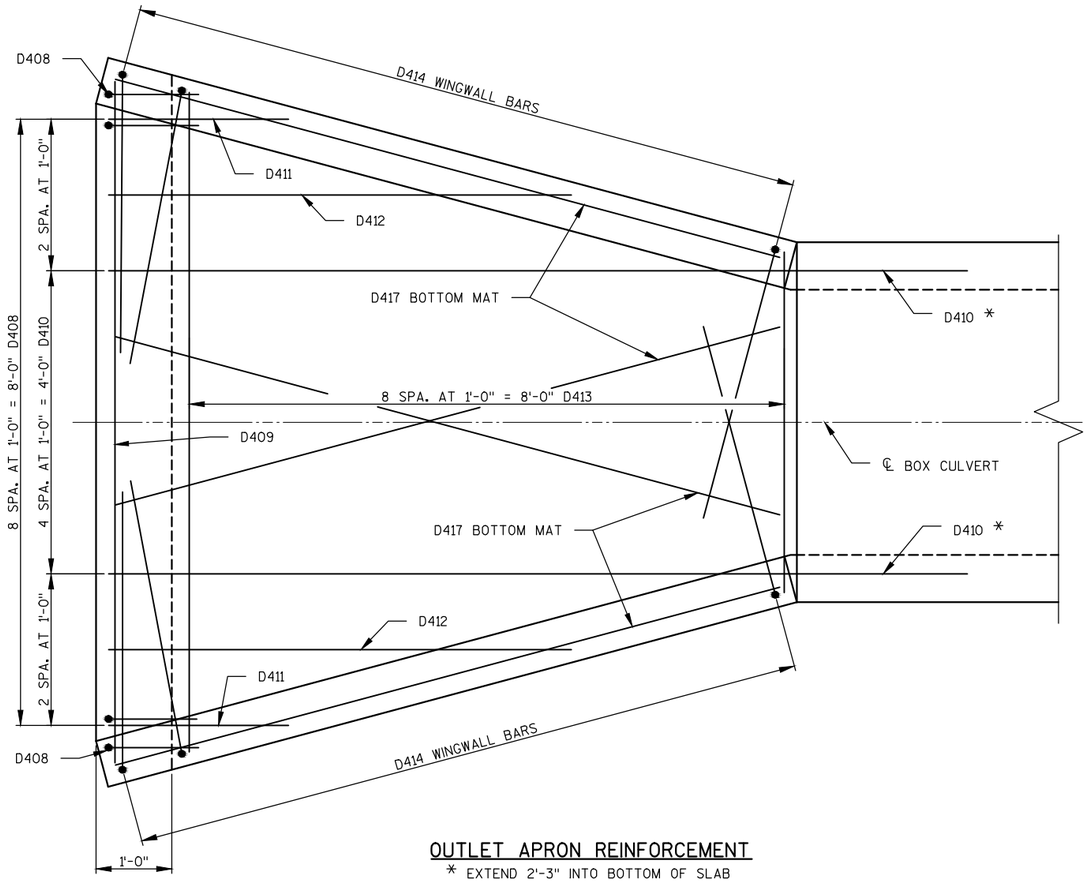


SECTION THRU BOX



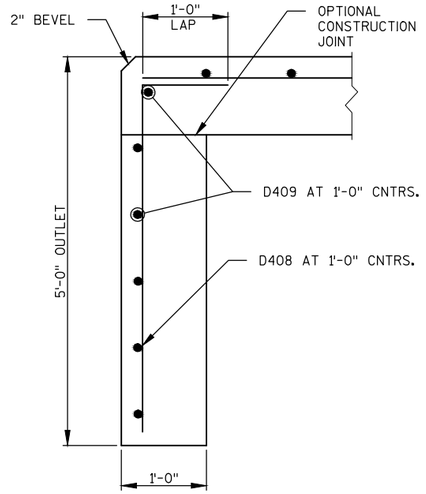
TYPICAL SECTION THRU CULVERT HEADER

PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	PLAN: STA 1238+48 BOX CULVERT DETAILS	SHEET 23	E

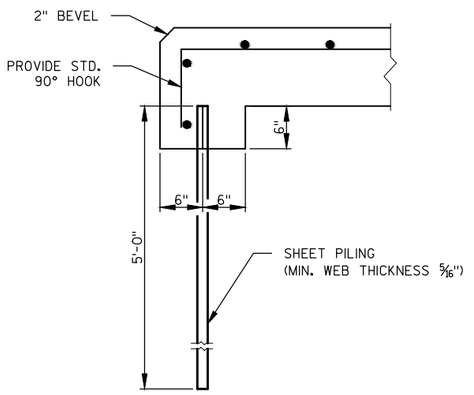


OUTLET APRON REINFORCEMENT

* EXTEND 2'-3" INTO BOTTOM OF SLAB

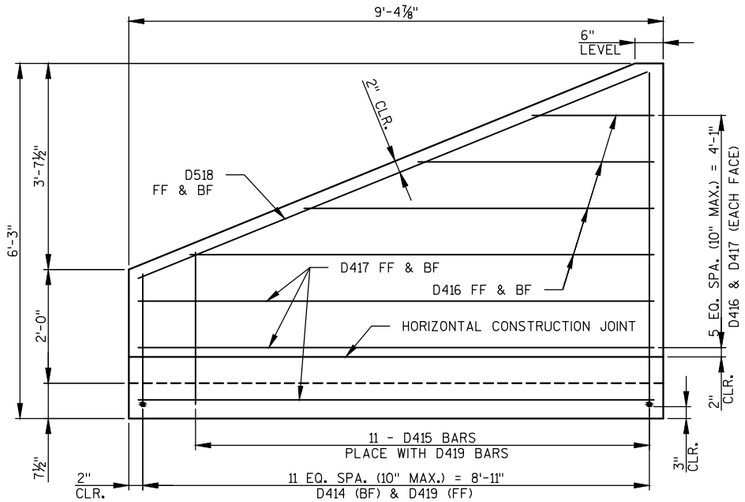


CUT OFF WALL



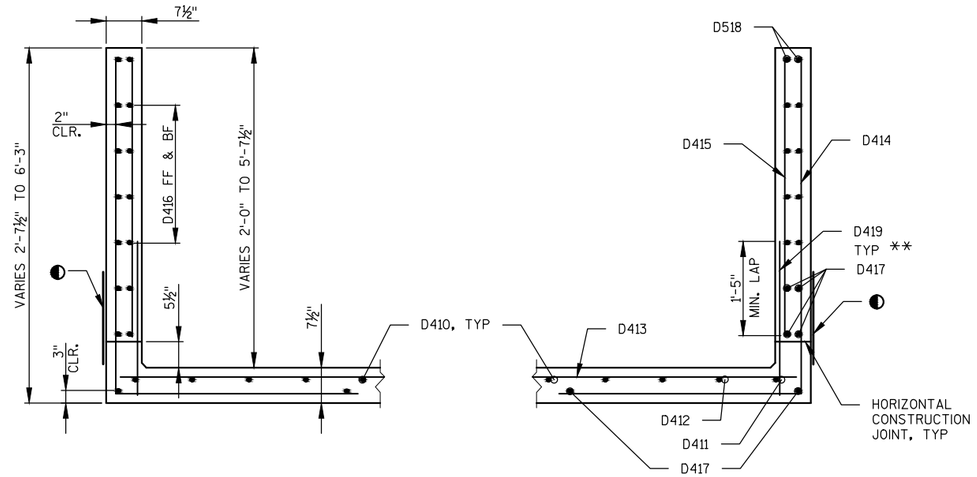
ALTERNATE CUT-OFF WALL

THE ABOVE ALTERNATE MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONCRETE CUT-OFF WALLS. PAYMENT WILL BE BASED ON THE CONCRETE CUT-OFF WALLS.

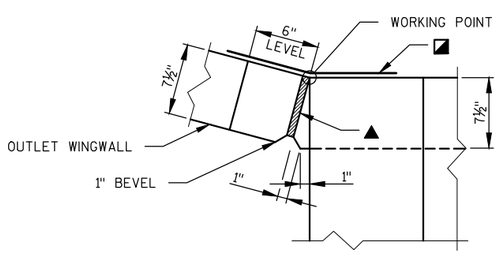


OUTLET WINGWALL ELEAVTION

BACK FACE



SECTION THRU WINGWALLS



OUTLET CORNER DETAIL

BILL OF BARS — **COATED= 410 LBS**

BOX CULVERT — **UNCOATED= 1040 LBS**

MARK	NUMBER COATED	NUMBER UNCOATED	LENGTH FT - IN	BENT	BAR SERIES	LOCATION	
D 5 01		56	6 - 10	X		BOX CORNERS	VERT
D 4 02		28	2 - 1			BOX - DOWELS	VERT
D 4 03		30	4 - 5			BOX HORIZONTAL - TOP SLAB , BOTTOM SLAB & APRON, HEADER	TRANS
D 4 04		32	9 - 11			BOX - OUTLET	LONG
D 4 05		28	4 - 10			BOX - WALLS	VERT
D 4 06		24	2 - 1			BOX ANCHORS	HORIZ
D 3 07		7	2 - 2	X		BOX HEADER	VERT
D 4 08		11	5 - 6	X		OUTLET CUT-OFF WALL	VERT
D 4 09		6	9 - 2			OUTLET CUT-OFF WALL	TRANS
D 4 10		5	11 - 4			OUTLET APRON	LONG
D 4 11		2	2 - 4			OUTLET APRON	LONG
D 4 12		2	6 - 1			OUTLET APRON	LONG
D 4 13		9	6 - 7		X	OUTLET APRON	TRANS
D 4 14	24		9 - 2	X	X	OUTLET WINGWALLS BF	VERT
D 4 15	22		3 - 3		X	OUTLET WINGWALLS FF	VERT
D 4 16	16		5 - 2		X	OUTLET WINGWALLS FF & BF	HORIZ
D 4 17	12		9 - 0			OUTLET WINGWALLS FF & BF	HORIZ
D 5 18	4		9 - 8			OUTLET WINGWALLS TOP	HORIZ
D 4 19	24		2 - 5			WINGWALLS DOWELS	VERT

BAR DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BARS.

ALL REINFORCING BARS ARE ENGLISH.

AVERAGE LENGTH OF BAR SERIES USED FOR DETERMINING BAR WEIGHT ONLY.
SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BAR SERIES TABLE

MARK	NO. REQUIRED	LENGTH
D413	1 SERIES OF 9	4'-6" TO 8'-8"
D414	2 SERIES OF 12	7'-4" TO 10'-11"
D415	2 SERIES OF 11	1'-7" TO 4'-10"
D416	4 SERIES OF 4	2'-2" TO 8'-2"

LEGEND

FF - FRONT FACE
BF - BACK FACE

◐ 18" MIN. WIDTH RUBBERIZED MEMBRANE WATERPROOFING ALONG HORIZ. CONSTR. JT. IN WING, TYP

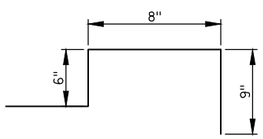
◪ RUBBERIZED MEMBRANE WATERPROOFING EXTEND FROM HORIZ. CONST. JT. TO TOP OF WALL. (FLUSH WITH FACE OF CONCRETE)

▲ ¾" FILLER TO EXTEND FROM HORIZONTAL CONSTRUCTION JOINT TO TOP OF WING.

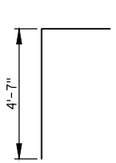
** CUT D419 IN SHORT END OF WINGWALL TO MAINTAIN CLEAR COVER.



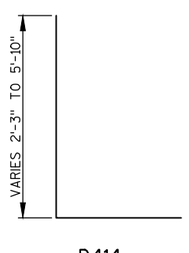
D501



D307

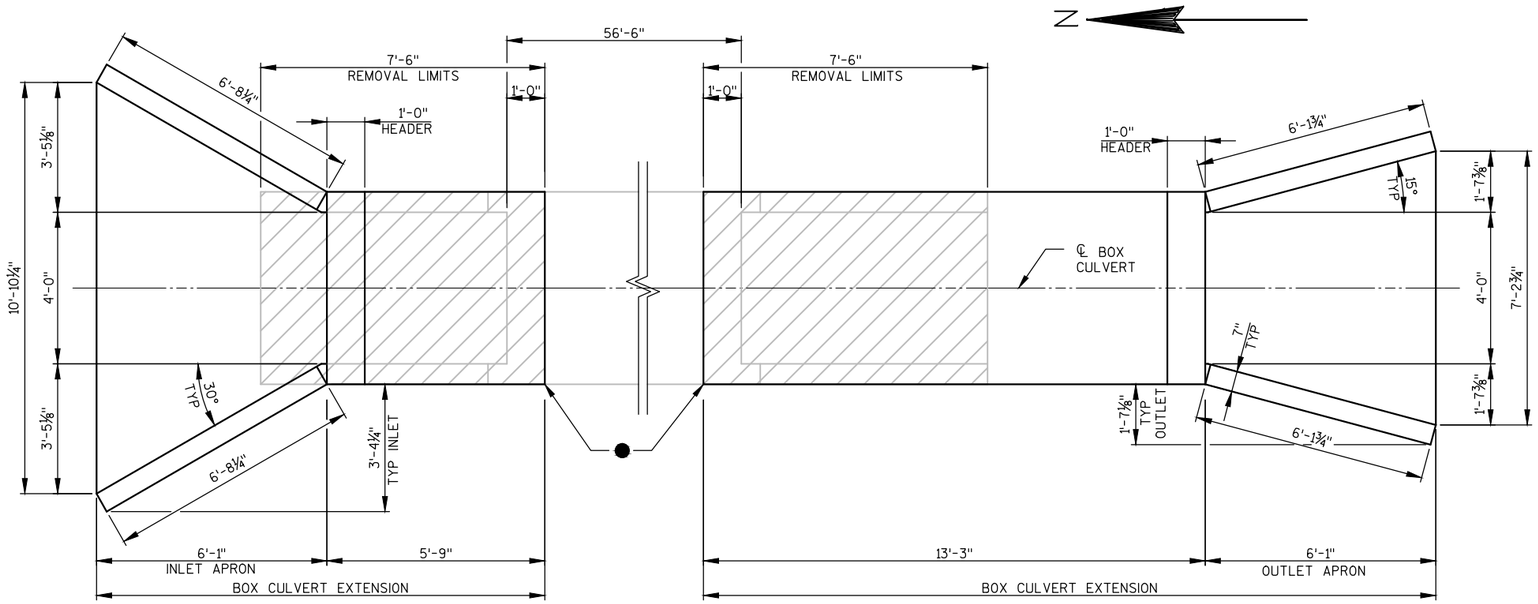


D408



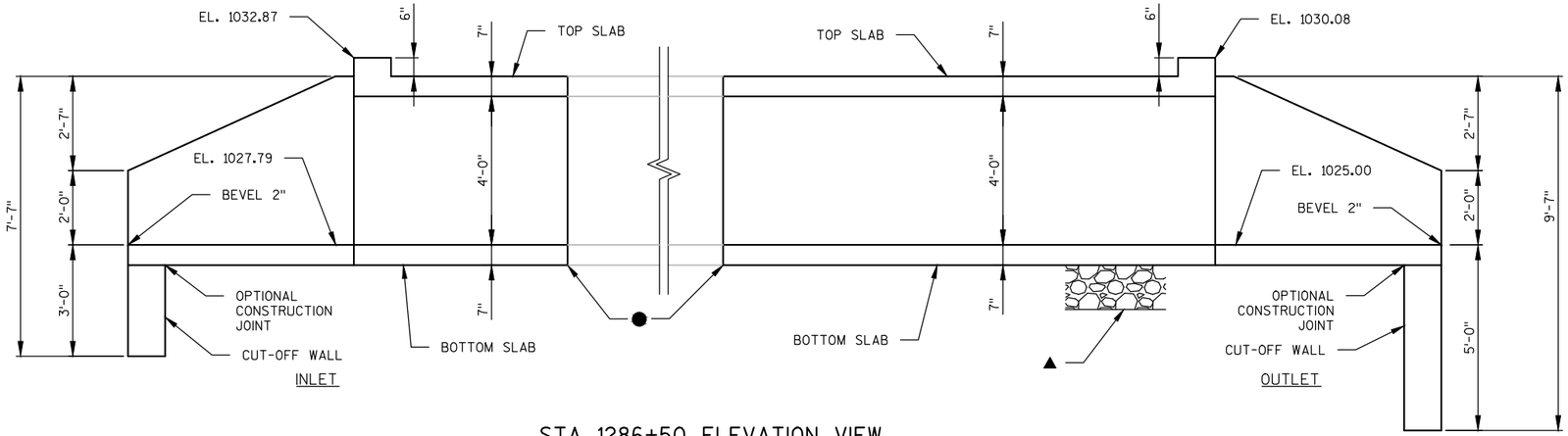
D414

PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	PLAN: STA 1238+48 BOX CULVERT DETAILS	SHEET 25	E

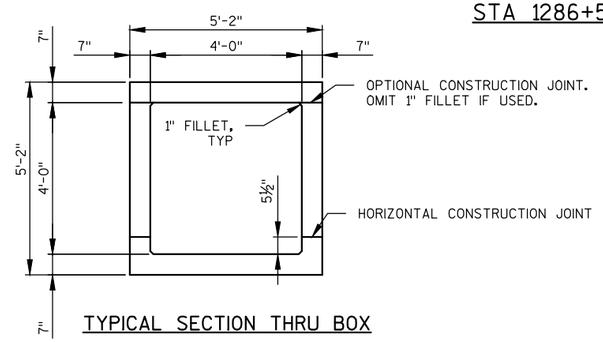


STA 1286+50 PLAN VIEW

48" x 48" BOX CULVERT



STA 1286+50 ELEVATION VIEW



TYPICAL SECTION THRU BOX

NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS STA 1286+50" SHALL BE THE EXISTING GROUND LINE.

STRUCTURE BACKFILL IS REQUIRED BEHIND ALL WINGWALLS.

ALL VOLUME WHICH CANNOT BE PLACED BEFORE THE CULVERT CONSTRUCTION AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL WITHIN THE LENGTH OF THE CULVERT INCLUDING APRON WINGWALLS.

THE CONCRETE IN CUT OFF WALLS MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

THE ALTERNATIVE CUT OFF WALL MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONCRETE CUT OFF WALLS. PAYMENT SHALL BE BASED ON CONCRETE CUT OFF WALLS.

ALL STATIONS AND ELEVATIONS ARE IN FEET.

RUBBERIZED MEMBRANE WATERPROOFING AND FILLER TO EXTEND ALONG JOINT BETWEEN WING AND BOX FROM HORIZONTAL CONSTRUCTION JOINT TO TOP OF WING.

18" MIN. WIDTH RUBBERIZED MEMBRANE WATERPROOFING TO BE PLACED ALONG BF OF VERTICAL CONSTRUCTION JOINTS ALONG WALLS AND ACROSS THE TOP SLAB OF BOX CULVERT.

● THE EXISTING STRUCTURE AT STA. 1286+50 SHALL BE REMOVED TO THE LIMITS SHOWN. CONCRETE REMOVAL SHALL BE DEFINED BY A 1" DEEP SAW CUT.

▲ UNDERCUT 1'-0". EXCAVATION SHALL BE INCLUDED IN EXCAVATION FOR STRUCTURES. PLACE "GEOTEXTILE TYPE C" AND BACKFILL WITH "BREAKER RUN".

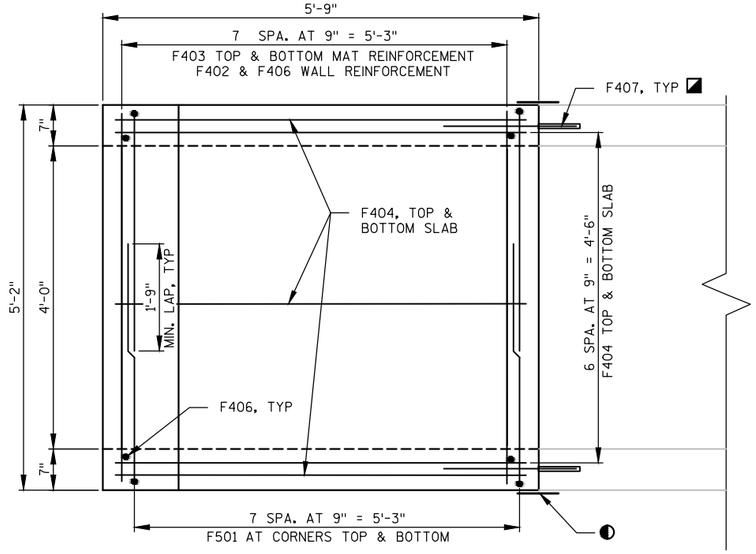
IN LIEU OF USING BREAKER RUN FOR THE BOX CONSTRUCTION PLATFORM. THE CONTRACTOR MAY ELECT TO SUBSTITUTE #1 OR #2 CONCRETE COARSE AGGREGATE, SELECT CRUSHED MATERIAL OR OTHER GRANULAR MATERIAL AS APPROVED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR BASE STABILITY WITH ANY SUBSTITUTED MATERIAL. THE REGION GEOTECHNICAL ENGINEER MAY BE CONTACTED TO DETERMINE IF "OTHER GRANULAR MATERIAL" IS ACCEPTABLE.

STEEL REINFORCEMENT SHALL BE GRADE 60 DEFORMED BARS (FY = 60,000 P.S.I.).

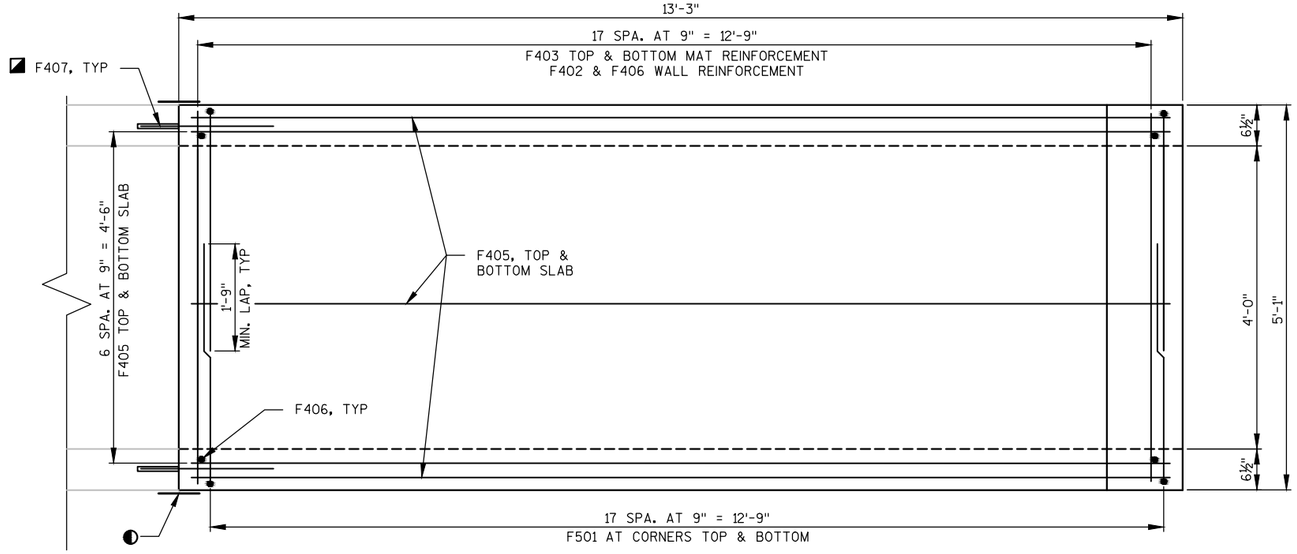
THE ULTIMATE COMPRESSIVE STRENGTH OF THE FIELD POURED CONCRETE SHALL BE 3,500 P.S.I.

THE CONTRACTOR MAY FURNISH A PRECAST CONCRETE BOX CULVERT IN LIEU OF THE CAST-IN-PLACE BOX CULVERT WITH THE ACCEPTANCE OF THE SHOP DRAWINGS BY THE STRUCTURES DESIGN SECTION. THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO PRECAST DETAILS IN CHAPTER 36 STANDARDS OF THE CURRENT WISCONSIN DOT BRIDGE MANUAL. PAYMENT FOR THE PRECAST CULVERT SHALL BE BASED ON THE QUANTITIES AND PRICES BID FOR THE ITEMS LISTED IN THE "TOTAL ESTIMATED QUANTITIES".

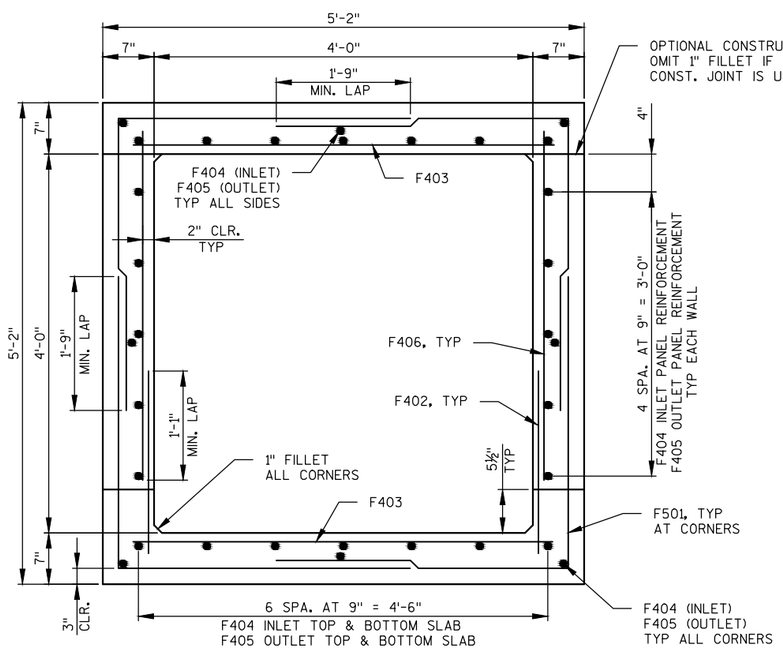
BID ITEM NO.	BID ITEMS	UNIT	TOTALS
203.0200	REMOVING OLD STRUCTURE STATION 1286+50	LS	1
206.2000	EXCAVATION FOR STRUCTURES CULVERTS STA 1286+50	LS	1
210.2500	BACKFILL STRUCTURE TYPE B	TON	82
311.0110	BREAKER RUN	TON	26
502.4204	ADHESIVE ANCHORS NO. 4 BAR	EACH	48
504.0100	CONCRETE MASONRY CULVERTS	CY	15
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	1800
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	520
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	13
645.0105	GEOTEXTILE TYPE C	SY	50
	NON BID ITEMS		
	FILLER	SIZE	3/4"



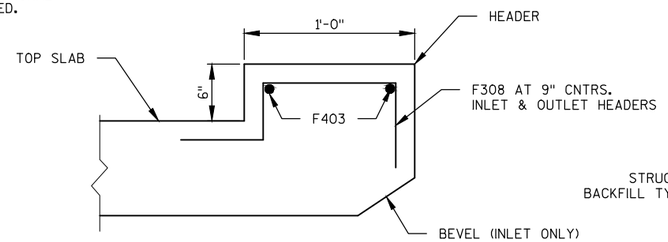
PLAN VIEW INLET PANEL



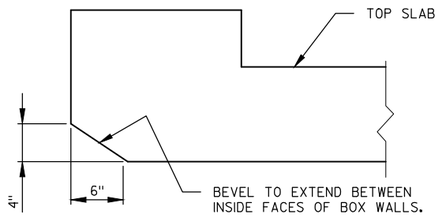
PLAN VIEW OUTLET PANEL



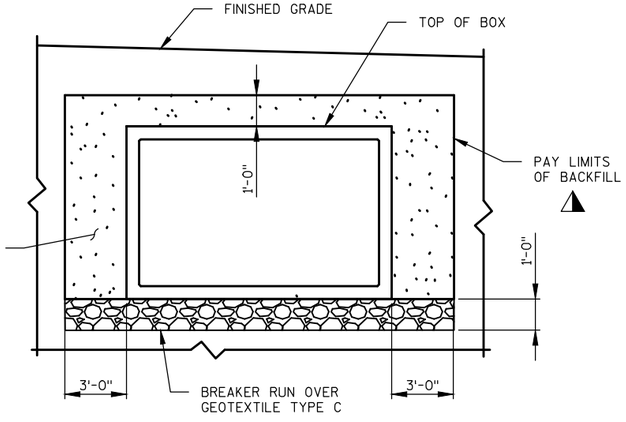
SECTION THRU BOX



TYPICAL SECTION THRU CULVERT HEADERS



TYPICAL SECTION THRU INLET HEADER



STRUCTURE BACKFILL DETAIL

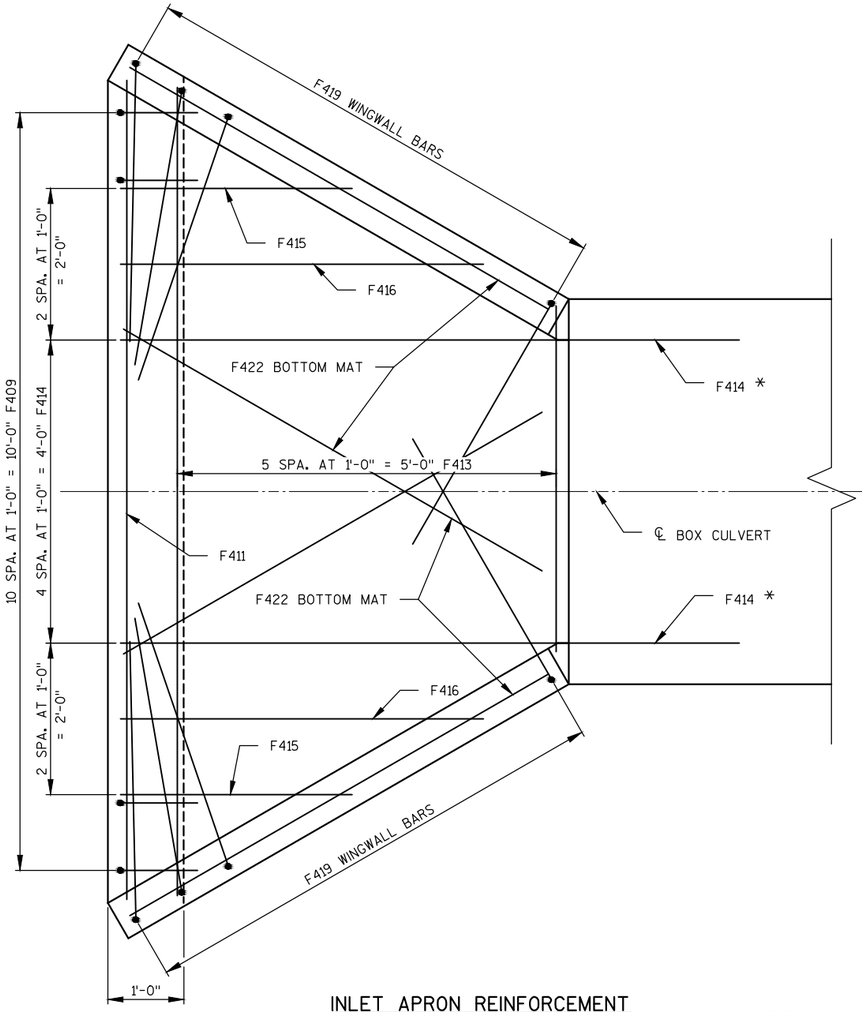
⚠ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

LEGEND

◪ ADHESIVE ANCHORS NO. 4 BAR. CENTERED IN WALL, TOP SLAB AND BOTTOM SLAB AT 9" MAX. SPACING. EMBED 6" IN CONCRETE.

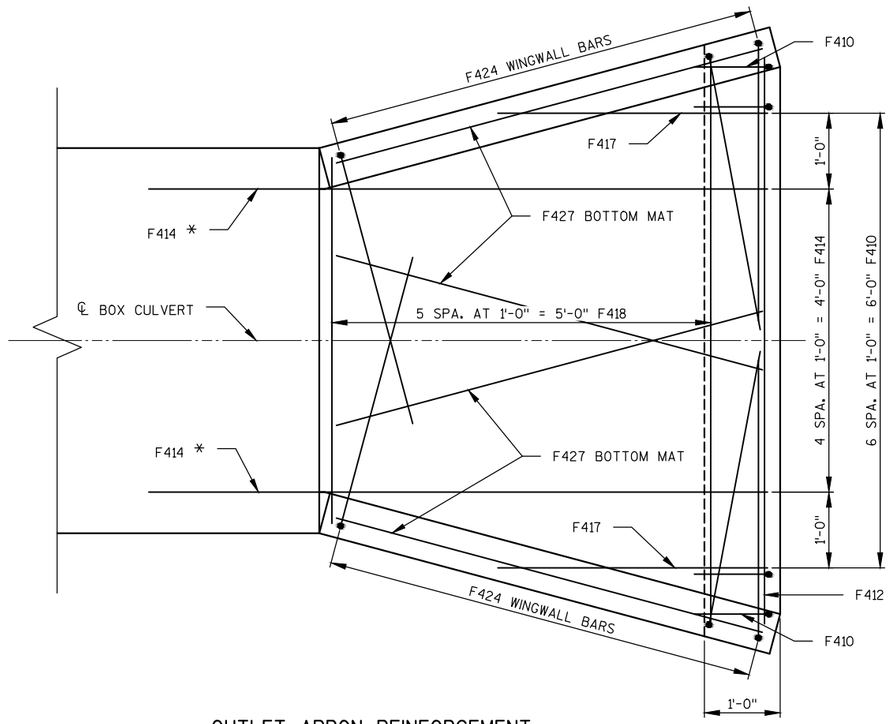
◐ RUBBERIZED MEMBRANE WATERPROOFING SHALL BE PLACED OVER THE JOINTS ON THE TOP AND SIDES OF THE BOX CULVERT.

2



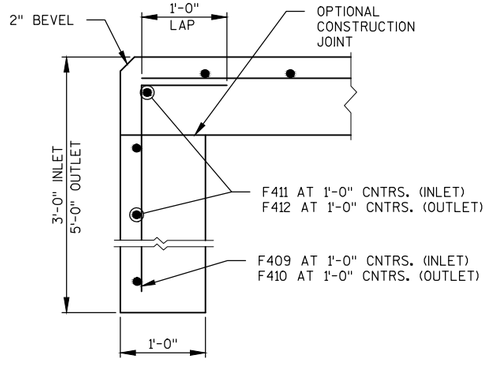
INLET APRON REINFORCEMENT

* EXTEND 2'-3" INTO BOTTOM OF SLAB

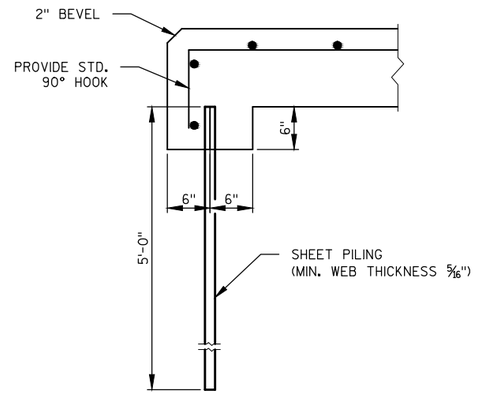


OUTLET APRON REINFORCEMENT

* EXTEND 2'-3" INTO BOTTOM OF SLAB

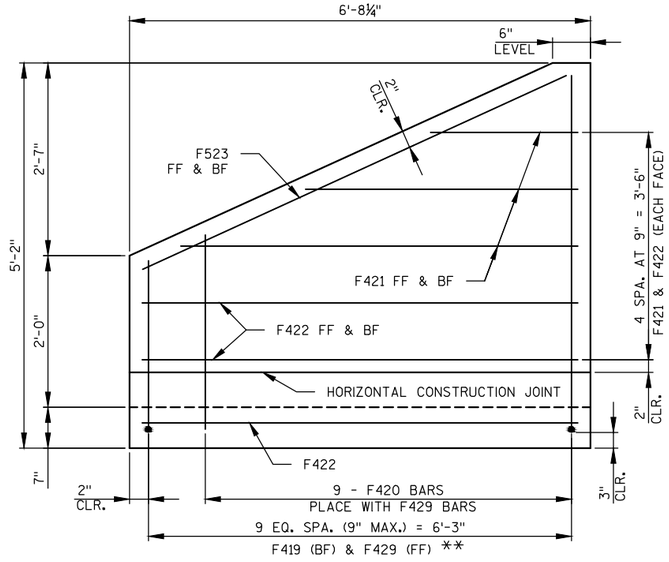


CUT OFF WALL



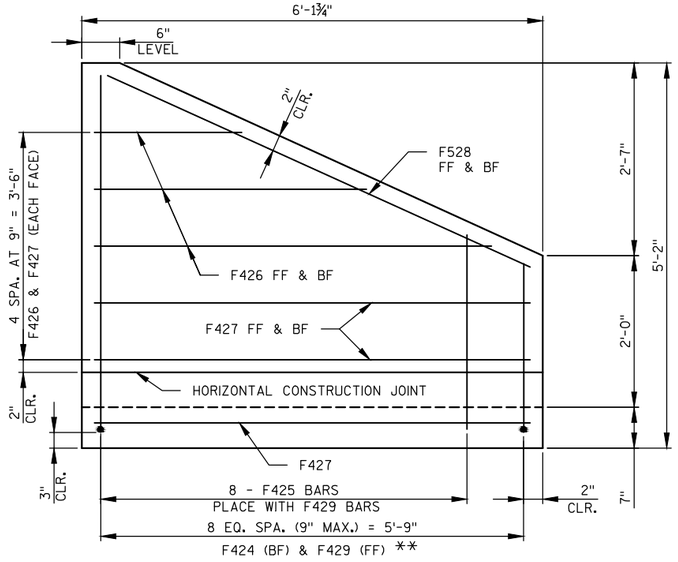
ALTERNATE CUT-OFF WALL

THE ABOVE ALTERNATE MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONCRETE CUT-OFF WALLS. PAYMENT WILL BE BASED ON THE CONCRETE CUT-OFF WALLS.



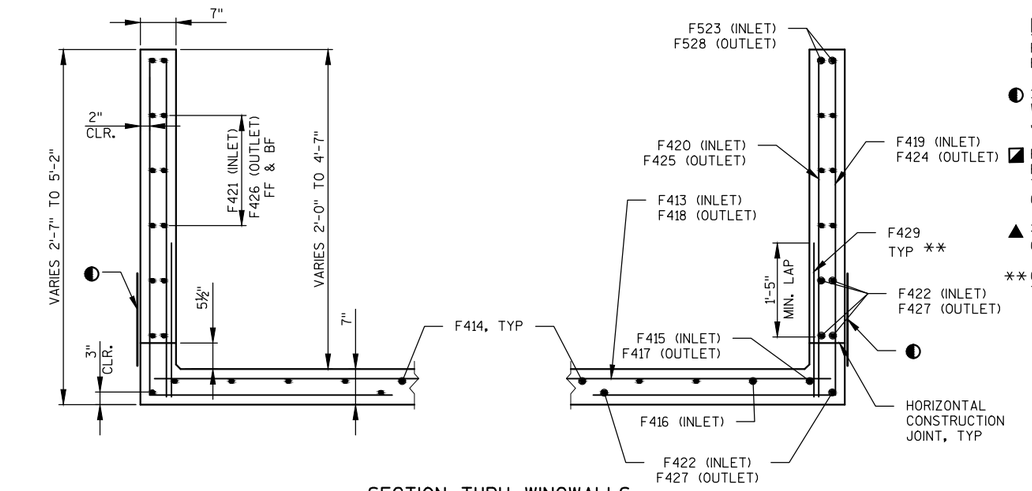
INLET WINGWALL ELEAVTION

BACK FACE



OUTLET WINGWALL ELEAVTION

BACK FACE



SECTION THRU WINGWALLS

LEGEND

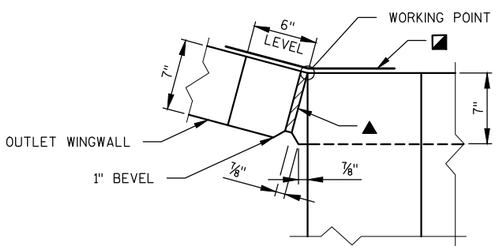
FF - FRONT FACE
BF - BACK FACE

◐ 18" MIN. WIDTH RUBBERIZED MEMBRANE WATERPROOFING ALONG HORIZ. CONSTR. JT. IN WING, TYP

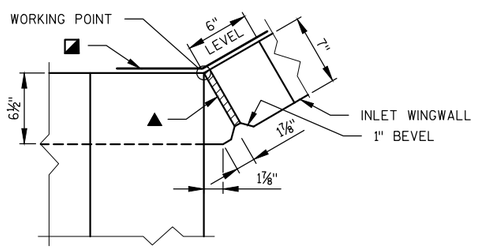
◪ RUBBERIZED MEMBRANE WATERPROOFING EXTEND FROM HORIZ. CONST. JT. TO TOP OF WALL. (FLUSH WITH FACE OF CONCRETE)

▲ ¾" FILLER TO EXTEND FROM HORIZONTAL CONSTRUCTION JOINT TO TOP OF WING.

** CUT F429 BARS IN SHORT END OF WINGWALL TO MAINTAIN MINIMUM COVER.



OUTLET CORNER DETAIL



INLET CORNER DETAIL

BILL OF BARS
BOX CULVERT

COATED= 520 LBS
UNCOATED= 1800 LBS

MARK	NUMBER COATED	NUMBER UNCOATED	LENGTH FT - IN	BENT	BAR SERIES	LOCATION	
F 5 01		104	6 - 5	X		BOX CORNERS	VERT
F 4 02		52	2 - 1			BOX - DOWELS	VERT
F 4 03		56	4 - 10			BOX HORIZ. - TOP SLAB , BOTTOM SLAB, APRON & HEADER	TRANS
F 4 04		32	5 - 5			BOX - INLET	LONG
F 4 05		32	12 - 11			BOX - OUTLET	LONG
F 4 06		52	3 - 9			BOX - WALLS	VERT
F 4 07		48	2 - 1			BOX ANCHORS	HORIZ
F 3 08		16	2 - 0	X		BOX HEADER	VERT
F 4 09		11	3 - 6	X		INLET CUT-OFF WALL	VERT
F 4 10		9	5 - 6	X		OUTLET CUT-OFF WALL	VERT
F 4 11		4	10 - 10			INLET CUT-OFF WALL	TRANS
F 4 12		6	7 - 7			OUTLET CUT-OFF WALL	TRANS
F 4 13		6	7 - 10		X	INLET APRON	TRANS
F 4 14		10	8 - 2			INLET & OUTLET APRON	LONG
F 4 15		2	3 - 5			INLET APRON	LONG
F 4 16		2	5 - 1			INLET APRON	LONG
F 4 17		2	4 - 4			OUTLET APRON	LONG
F 4 18		6	6 - 3		X	OUTLET APRON	TRANS
F 4 19	20		7 - 1	X	X	INLET WINGWALLS BF	VERT
F 4 20	18		2 - 8		X	INLET WINGWALLS FF	VERT
F 4 21	12		4 - 0		X	INLET WINGWALLS FF & BF	HORIZ
F 4 22	12		6 - 4			INLET WINGWALLS FF & BF, APRON BOTTOM	HORIZ
F 5 23	4		6 - 10			INLET WINGWALLS TOP	HORIZ
F 4 24	18		7 - 1	X	X	OUTLET WINGWALLS BF	VERT
F 4 25	16		2 - 8		X	OUTLET WINGWALLS FF	VERT
F 4 26	12		3 - 8		X	OUTLET WINGWALLS FF & BF	HORIZ
F 4 27	12		5 - 9			OUTLET WINGWALLS FF & BF, APRON BOTTOM	HORIZ
F 5 28	4		6 - 2			OUTLET WINGWALLS TOP	HORIZ
F 4 29	38		2 - 5			WINGWALLS DOWELS	VERT

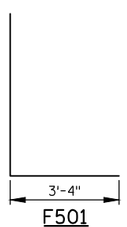
BAR DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BARS.

ALL REINFORCING BARS ARE ENGLISH.

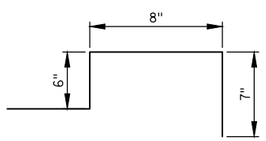
AVERAGE LENGTH OF BAR SERIES USED FOR DETERMINING BAR WEIGHT ONLY.
SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BAR SERIES TABLE

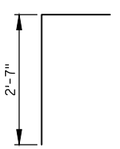
MARK	NO. REQUIRED	LENGTH
F413	1 SERIES OF 6	4'-11" TO 10'-9"
F418	1 SERIES OF 6	4'-11" TO 7'-7"
F419	2 SERIES OF 10	5'-10" TO 8'-3"
F420	2 SERIES OF 9	1'-7" TO 3'-9"
F421	4 SERIES OF 3	2'-2" TO 5'-10"
F424	2 SERIES OF 9	5'-10" TO 8'-3"
F425	2 SERIES OF 8	1'-7" TO 3'-9"
F426	4 SERIES OF 3	2'-0" TO 5'-4"



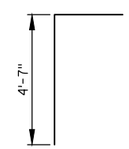
F501



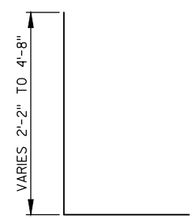
F308



F409

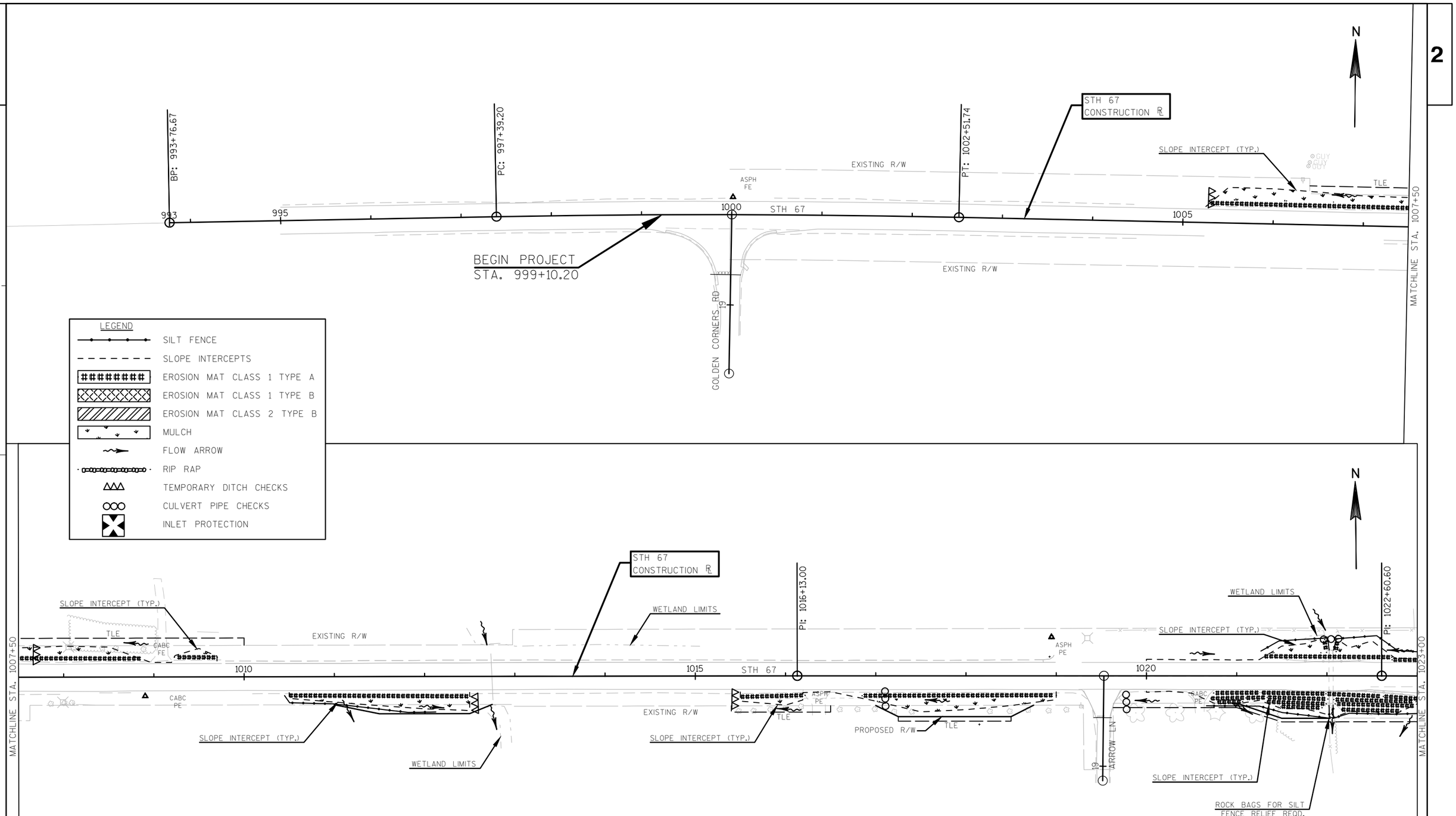


F410



F419 & F424

PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	PLAN: STA 1286+50 BOX CULVERT DETAILS	SHEET 29	E



PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	EROSION CONTROL PLAN	SHEET 30 E

2

MATCHLINE STA. 1023+00

SLOPE INTERCEPT (TYP.)

21 ASHLAND DR

EXISTING R/W

SLOPE INTERCEPT (TYP.)

PI: 1032+16.60

STH 67 CONSTRUCTION ℄

SLOPE INTERCEPT (TYP.)

PROPOSED R/W

ASPH PE

CABC PE

1025

1030

STH 67

1035

N

TLE

SLOPE INTERCEPT (TYP.)

EXISTING R/W

CABC PE

ASPH PE

MATCHLINE STA. 1038+50

LEGEND

- SILT FENCE
- SLOPE INTERCEPTS
- EROSION MAT CLASS 1 TYPE A
- EROSION MAT CLASS 1 TYPE B
- EROSION MAT CLASS 2 TYPE B
- MULCH
- FLOW ARROW
- RIP RAP
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- INLET PROTECTION

MATCHLINE STA. 1038+50

WETLAND LIMITS

PI: 1040+83.60

EXISTING R/W

CABC PE

STH 67 CONSTRUCTION ℄

PI: 1049+95.70

1040

1045

STH 67

1050

N

CABC FE

ASPH PE

CABC PE

CABC PE

WETLAND LIMITS

EXISTING R/W

TLE

SLOPE INTERCEPT (TYP.)

19 PLEASANT HILL DR

MATCHLINE STA. 1054+00

2

PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	EROSION CONTROL PLAN	SHEET 31 E

FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\SHEETSPLAN\022001_EC.DWG PLOT DATE : 6/29/2018 10:42 AM PLOT BY : ANDY BLOCK PLOT NAME : 022001 WISDOT/CADDS SHEET 42

2

MATCHLINE STA. 1054+00

SLOPE INTERCEPT (TYP.)

TLE

ASPH PE

1055

PI: 1057+36.45

1060

STH 67 CONSTRUCTION ℄

EXISTING R/W

STH 67

ASPH CE

EXISTING R/W

SLOPE INTERCEPT (TYP.)

PI: 1063+39.00

ROCK BAGS FOR SILT FENCE RELIEF REQD.

1065

21 SUPER DR

SLOPE INTERCEPT (TYP.)

PI: 1067+23.50

WETLAND LIMITS

XXXX

GUY

ROCK BAGS FOR SILT FENCE RELIEF REQD.

WETLAND LIMITS

SLOPE INTERCEPT (TYP.)

19 MINNIE LN

MATCHLINE STA. 1069+50

N

2

LEGEND

- SILT FENCE
- SLOPE INTERCEPTS
- EROSION MAT CLASS 1 TYPE A
- EROSION MAT CLASS 1 TYPE B
- EROSION MAT CLASS 2 TYPE B
- MULCH
- RIP RAP
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- INLET PROTECTION

MATCHLINE STA. 1069+50

WETLAND LIMITS

TLE

PI: 1072+35.46

1070

EXISTING R/W

STH 67 CONSTRUCTION ℄

WETLAND LIMITS

ASPH PE

CABC PE

ASPH CE

1075

STH 67

1080

1085+00

ASPH CE

ASPH PE

ASPH PE

EXISTING R/W

ASPH CE

CABC PE

CABC PE

ASPH PE

CABC PE

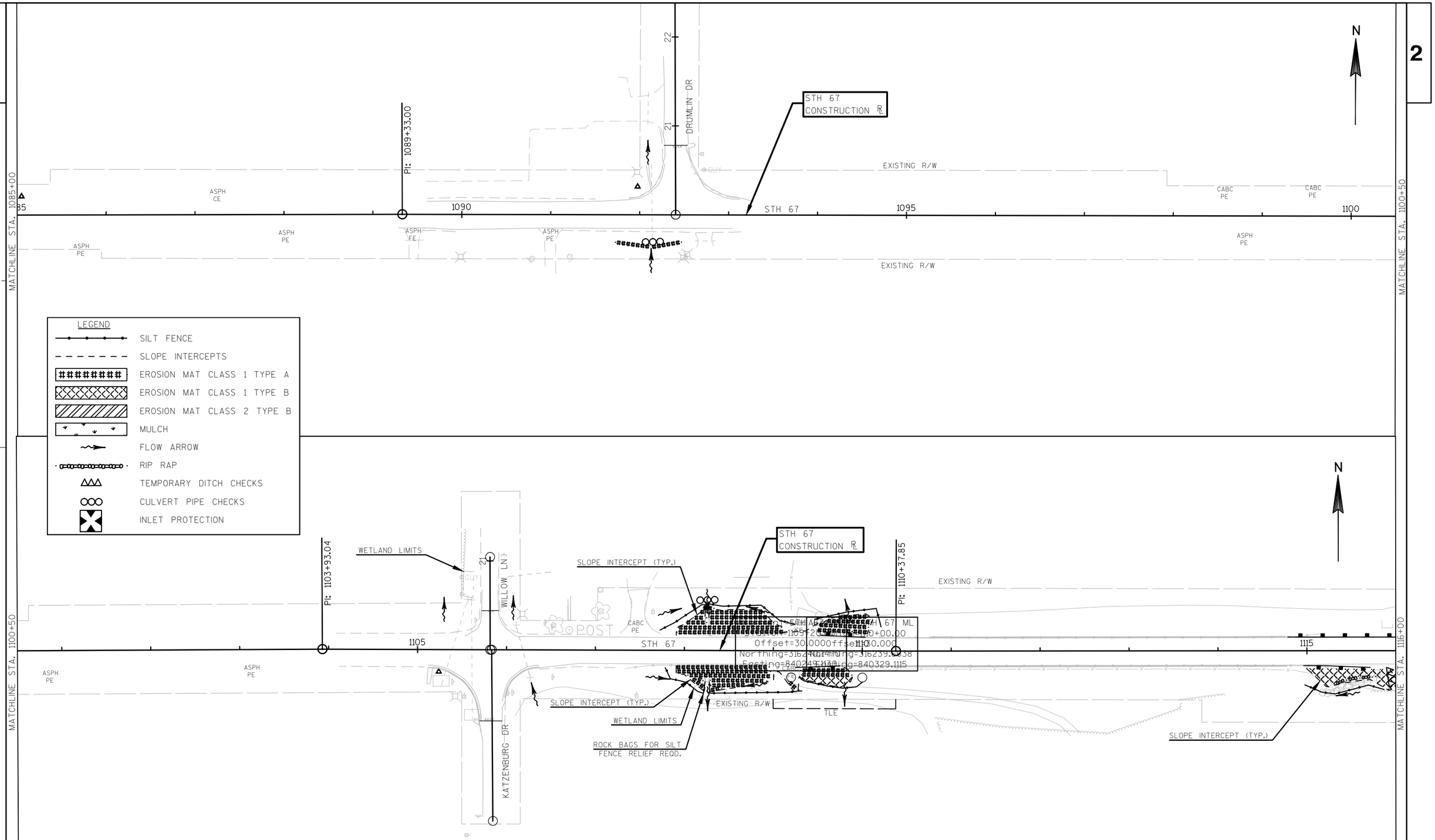
WETLAND LIMITS

N

MATCHLINE STA. 1085+00

PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	EROSION CONTROL PLAN	SHEET 32 E

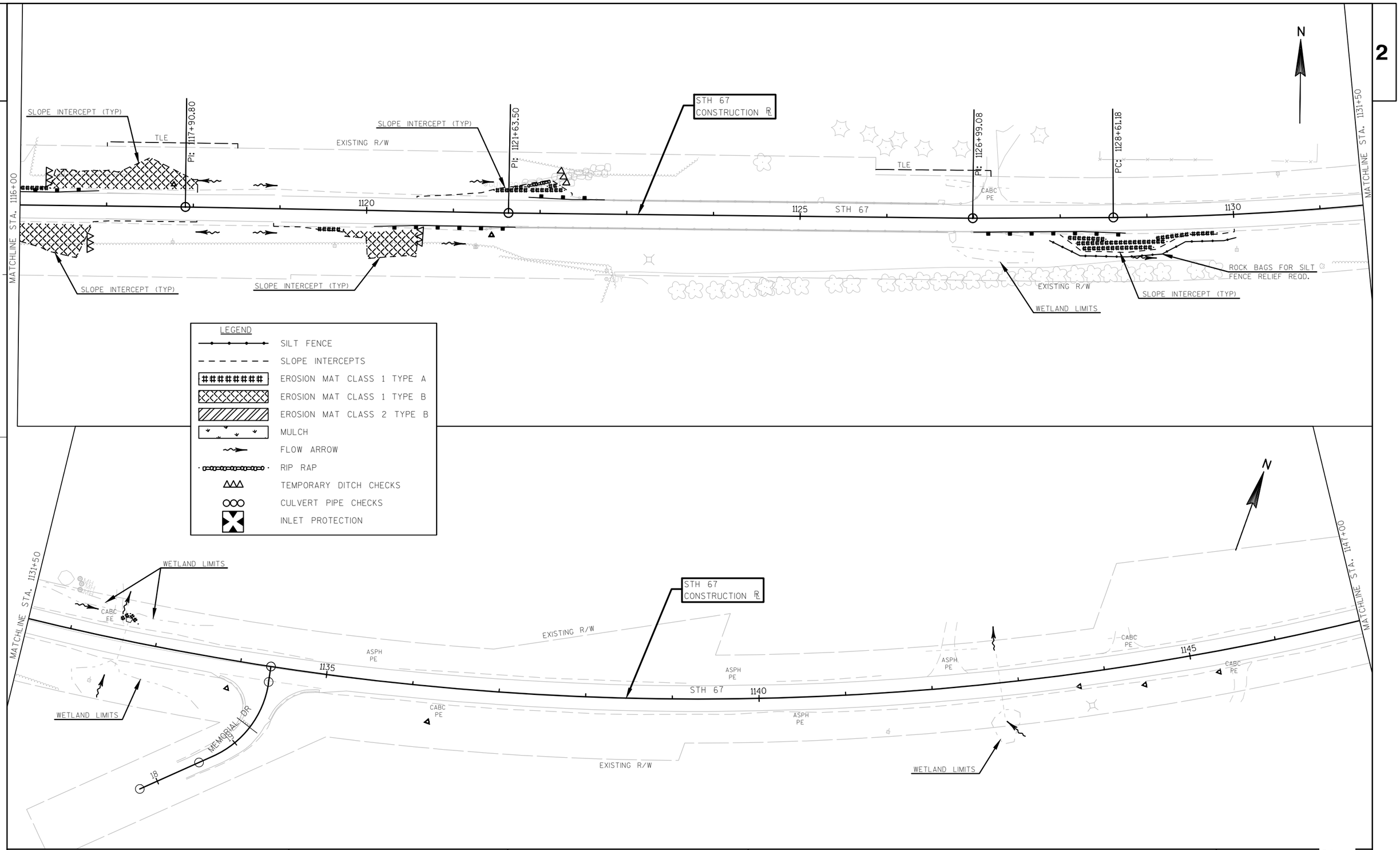
FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\SHEETSPLAN\022001_EC.DWG PLOT DATE : 6/29/2018 10:43 AM PLOT BY : ANDY BLOCK PLOT NAME : 022002 WISDOT/CADDS SHEET 42



LEGEND

- SILT FENCE
- SLOPE INTERCEPTS
- EROSION MAT CLASS 1 TYPE A
- EROSION MAT CLASS 1 TYPE B
- EROSION MAT CLASS 2 TYPE B
- MULCH
- FLOW ARROW
- RIP RAP
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- INLET PROTECTION

PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	EROSION CONTROL PLAN	SHEET 33 E



PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	EROSION CONTROL PLAN	SHEET 34 E

2

MATCHLINE STA. 1147+00

MATCHLINE STA. 1162+50

STH 67
CONSTRUCTION ℄

WETLAND LIMITS

ROCK BAGS FOR SILT
FENCE RELIEF REQD.

SLOPE INTERCEPT (TYP)

EXISTING R/W

CABC
PE

CABC
FE

1150

STH 67

1155

1160

SLOPE INTERCEPT (TYP)

OLD 67 RD

61

LEGEND

- SILT FENCE
- SLOPE INTERCEPTS
- EROSION MAT CLASS 1 TYPE A
- EROSION MAT CLASS 1 TYPE B
- EROSION MAT CLASS 2 TYPE B
- MULCH
- FLOW ARROW
- RIP RAP
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- INLET PROTECTION

MATCHLINE STA. 1162+50

PT: 1162+98.56

PI: 1166+53.47

STH 67
CONSTRUCTION ℄

EXISTING R/W

CABC
PE

ASPH
PE

1165

STH 67

1170

1175

GUY

ROLLING DR 19

48

EXISTING R/W

SLOPE INTERCEPT (TYP)

PROPOSED R/W

WETLAND LIMITS

ROCK BAGS FOR SILT
FENCE RELIEF REQD.

SLOPE INTERCEPT (TYP)

TLE

PI: 1176+90.10

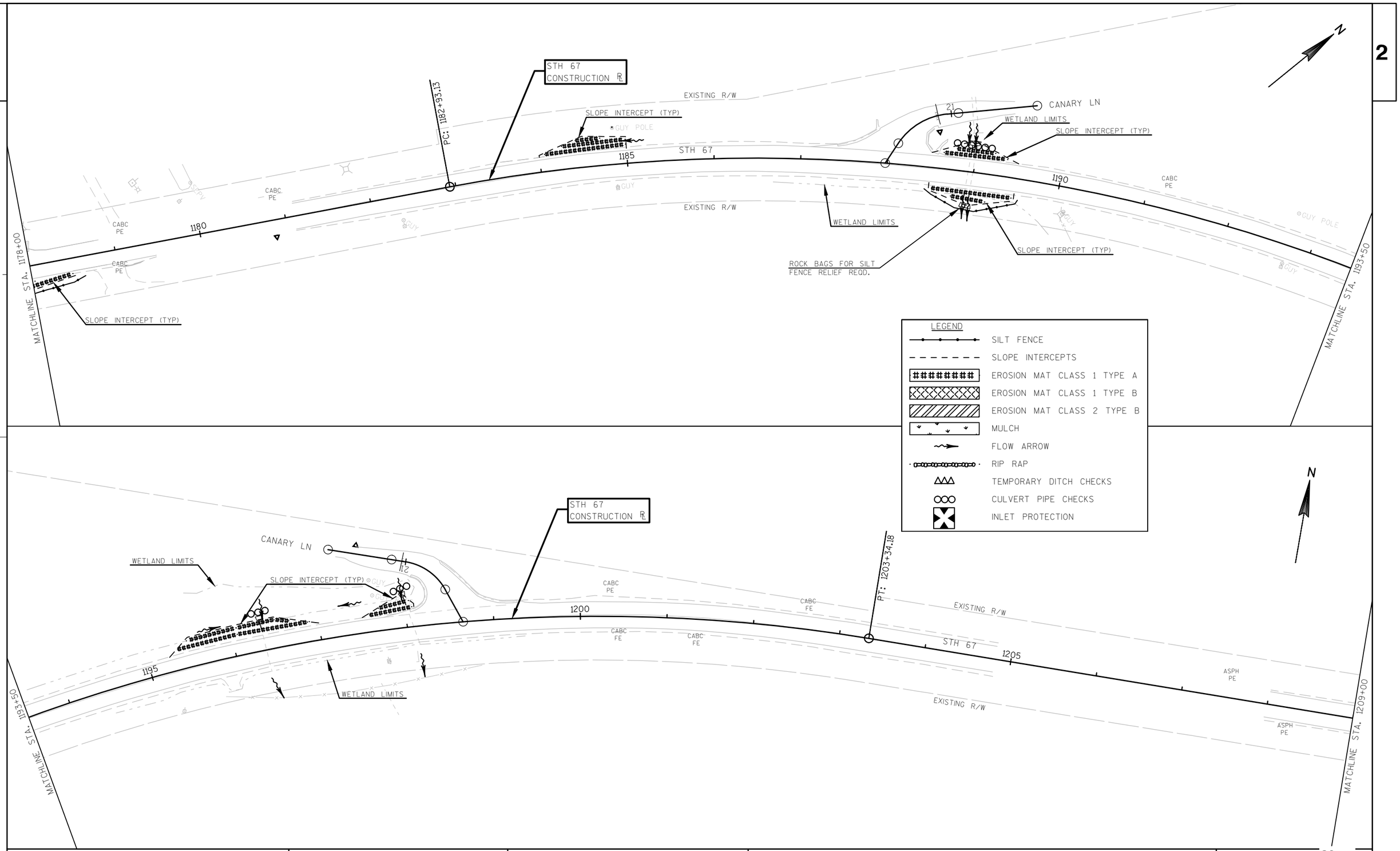
21

ROLLING DR

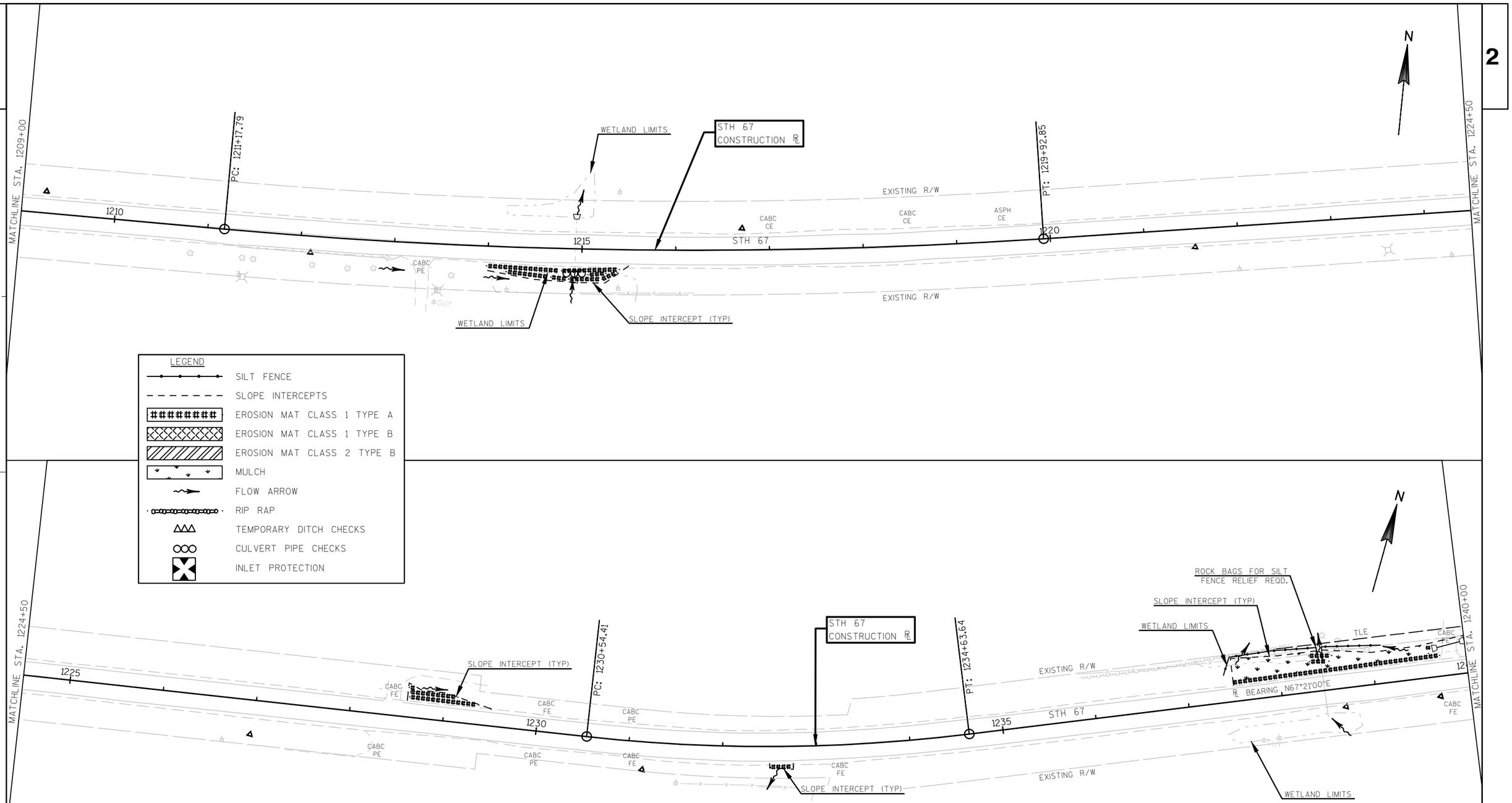
MATCHLINE STA. 1178+00

WEST BRANCH OF THE
MILWAUKEE RIVER

PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	EROSION CONTROL PLAN	SHEET 35 E

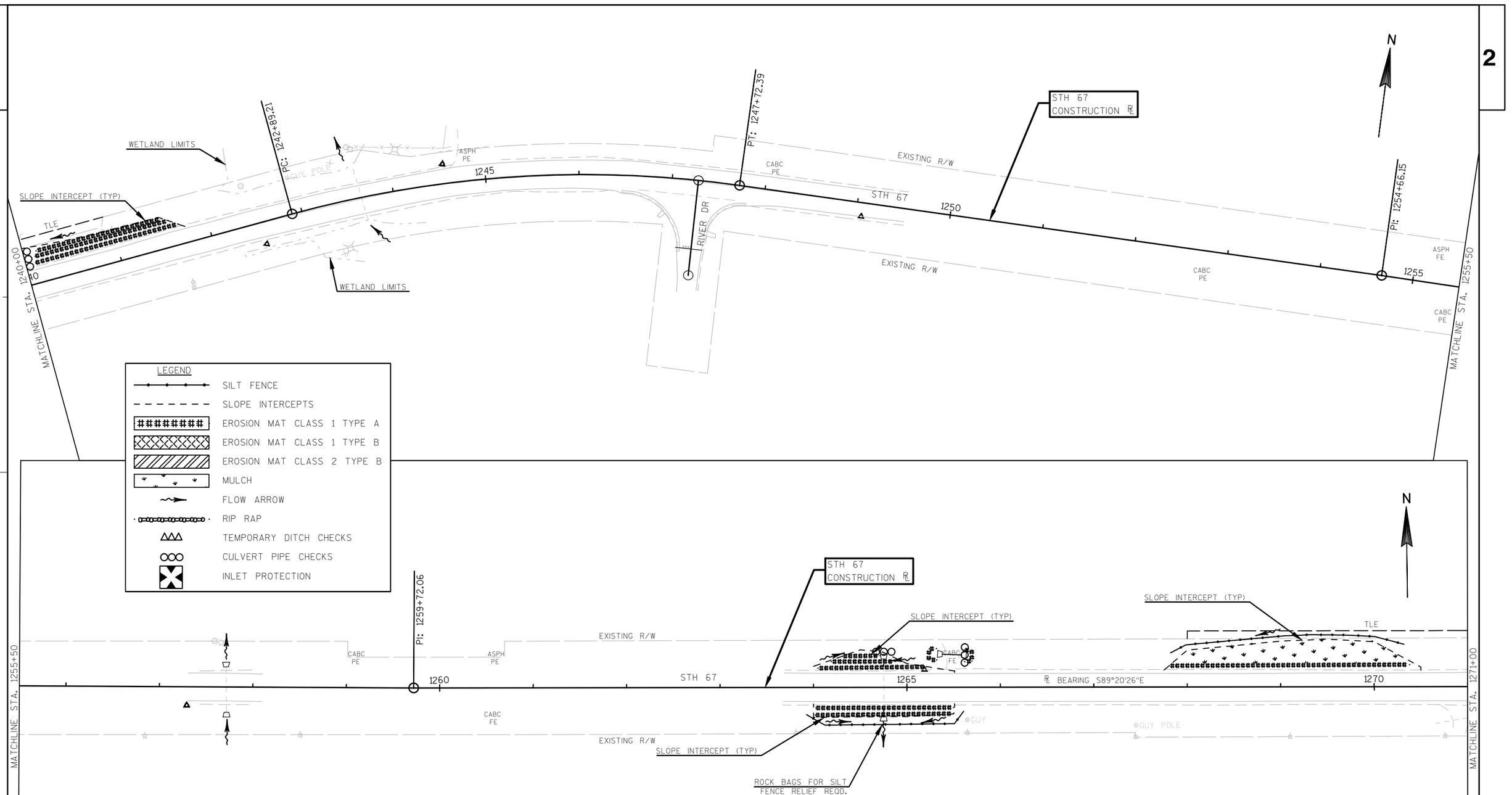


PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	EROSION CONTROL PLAN	SHEET 36 E



PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	EROSION CONTROL PLAN	SHEET 37 E

2



PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	EROSION CONTROL PLAN	SHEET 38 E

2

MATCHLINE STA. 1271+00

PI: 1275+31.84

PI: 1277+61.18

STH 67
CONSTRUCTION

EXISTING R/W

CABC FE

CABC CE

1275

STH 67

1280

CABC PE

ASPH PE

SLOPE INTERCEPT (TYP)

WETLAND LIMITS

TLE

1285

CABC FE

ASPH PE

EXISTING R/W

TLE

PROPOSED R/W

SLOPE INTERCEPT (TYP)

WETLAND LIMITS

ROCK BAGS FOR SILT FENCE RELIEF REQD.

MATCHLINE STA. 1286+50

N

2

LEGEND

- SILT FENCE
- SLOPE INTERCEPTS
- EROSION MAT CLASS 1 TYPE A
- EROSION MAT CLASS 1 TYPE B
- EROSION MAT CLASS 2 TYPE B
- MULCH
- FLOW ARROW
- RIP RAP
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- INLET PROTECTION

MATCHLINE STA. 1286+50

BEECHNUT DR

21

WETLAND LIMITS

SLOPE INTERCEPT (TYP)

PI: 1289+81.76

1290

CABC FE

TLE

PROPOSED R/W

SLOPE INTERCEPT (TYP)

WETLAND LIMITS

STH 67
CONSTRUCTION

CABC PE

ASPH PE

1295

STH 67

ASPH PE

CABC PE

EXISTING R/W

PI: 1299+96.05

1300

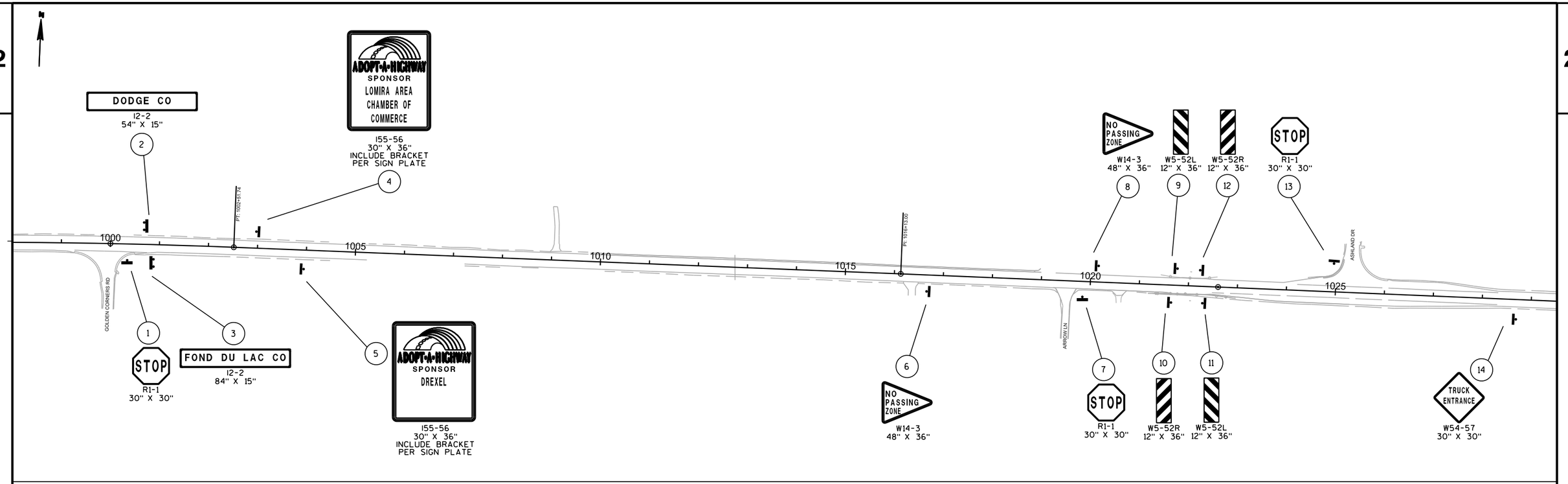
EXISTING R/W

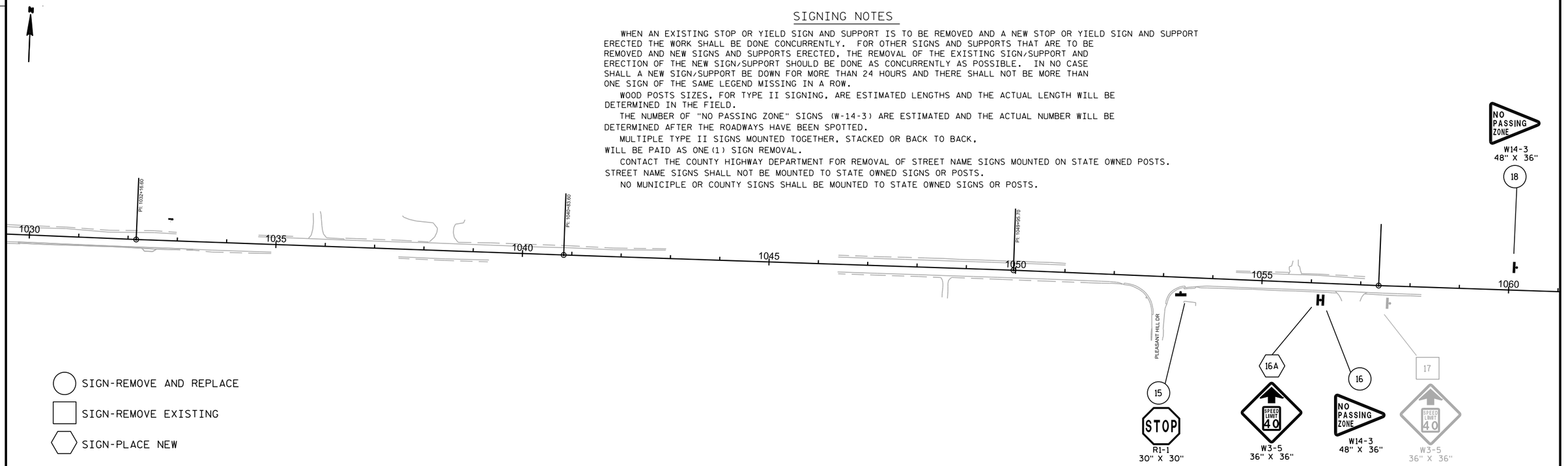
ASPH PE

END PROJECT
STA. 1298+00

N

PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	EROSION CONTROL PLAN	SHEET 39 E





PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	PERMANENT SIGNING	SHEET E

FILE NAME : N:\spo\traffic\SIGNING\Projects\4090-07-71 FDL STH 67\40900771_signplan.dgn PLOT DATE : 14-MAR-2019 07:45 PLOT BY : dotets PLOT NAME : PLOT SCALE : 200:1

SIGNING NOTES

WHEN AN EXISTING STOP OR YIELD SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP OR YIELD SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

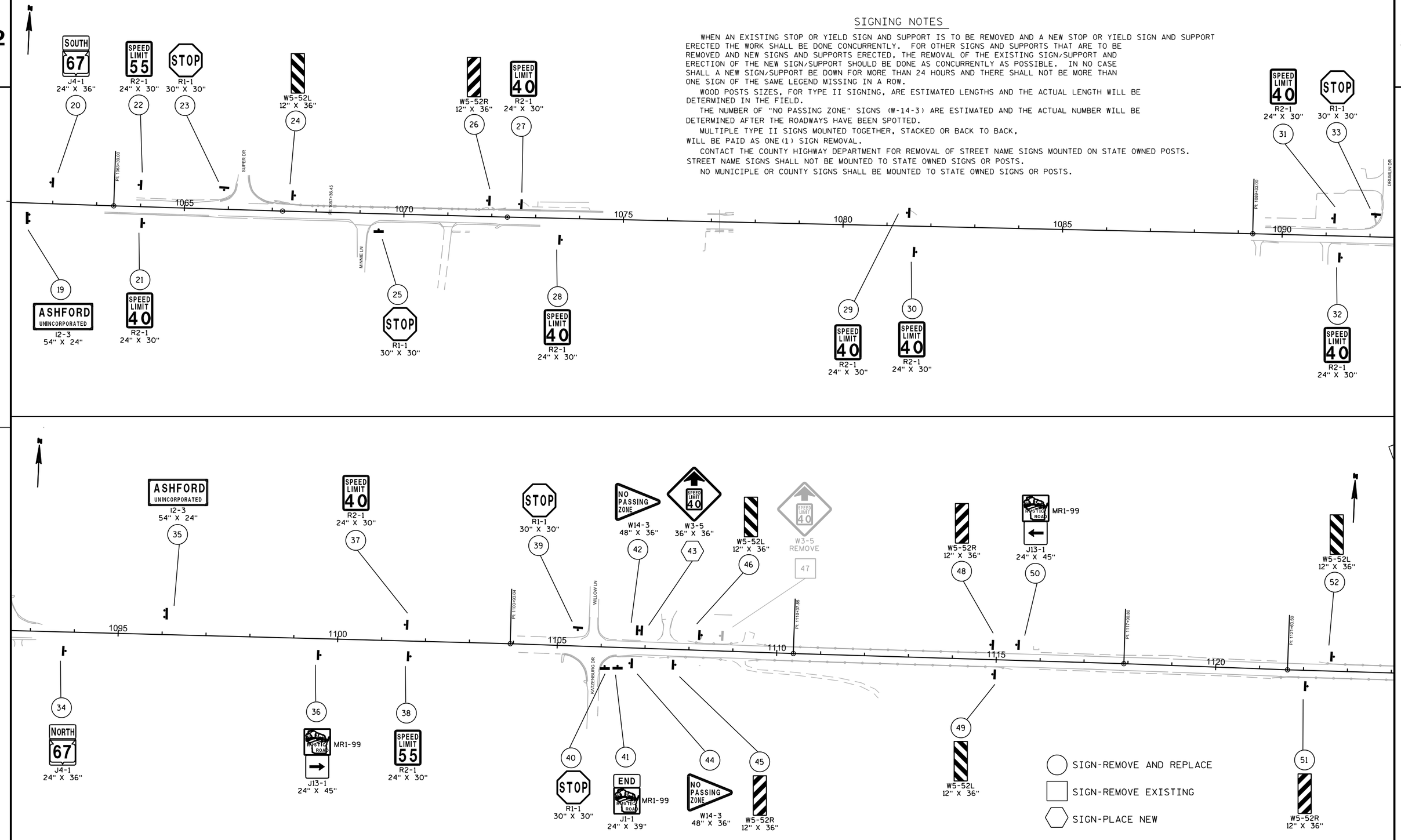
WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

THE NUMBER OF "NO PASSING ZONE" SIGNS (W-14-3) ARE ESTIMATED AND THE ACTUAL NUMBER WILL BE DETERMINED AFTER THE ROADWAYS HAVE BEEN SPOTTED.

MULTIPLE TYPE II SIGNS MOUNTED TOGETHER, STACKED OR BACK TO BACK, WILL BE PAID AS ONE (1) SIGN REMOVAL.

CONTACT THE COUNTY HIGHWAY DEPARTMENT FOR REMOVAL OF STREET NAME SIGNS MOUNTED ON STATE OWNED POSTS. STREET NAME SIGNS SHALL NOT BE MOUNTED TO STATE OWNED SIGNS OR POSTS.

NO MUNICIPLE OR COUNTY SIGNS SHALL BE MOUNTED TO STATE OWNED SIGNS OR POSTS.



PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	PERMANENT SIGNING	SHEET	E

FILE NAME : N:\spo\traffic\SIGNING\Projects\4090-07-71 FDL STH 67\40900771_signplan.dgn PLOT DATE : 14-MAR-2019 07:45 PLOT BY : dotets PLOT NAME : PLOT SCALE : 200:1

SIGNING NOTES

WHEN AN EXISTING STOP OR YIELD SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP OR YIELD SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

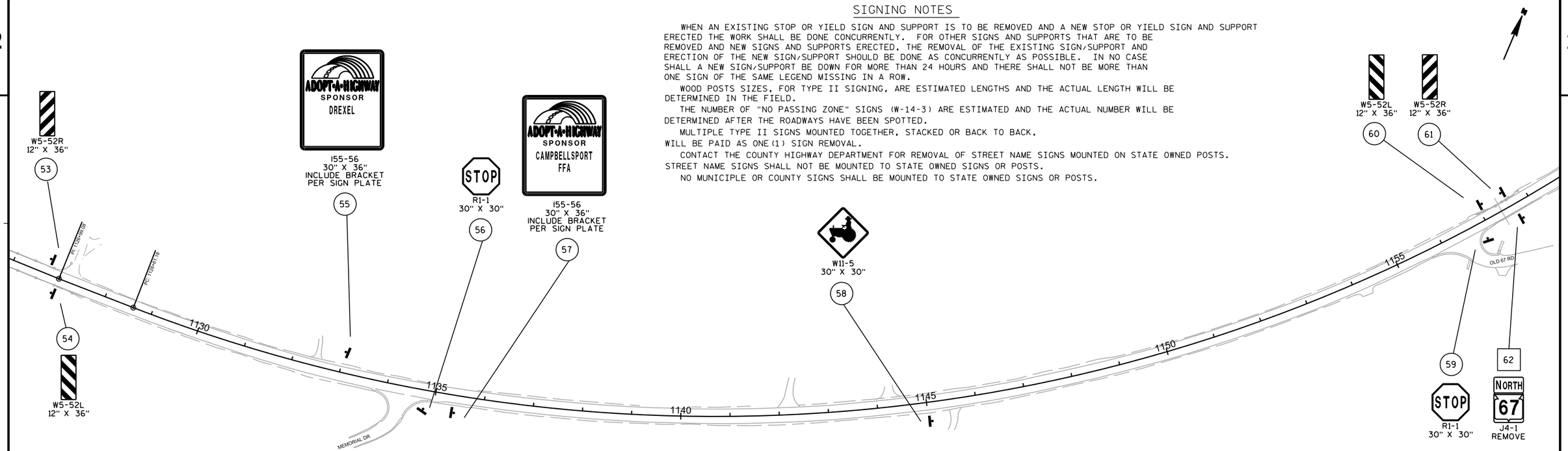
WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

THE NUMBER OF "NO PASSING ZONE" SIGNS (W-14-3) ARE ESTIMATED AND THE ACTUAL NUMBER WILL BE DETERMINED AFTER THE ROADWAYS HAVE BEEN SPOTTED.

MULTIPLE TYPE II SIGNS MOUNTED TOGETHER, STACKED OR BACK TO BACK, WILL BE PAID AS ONE(1) SIGN REMOVAL.

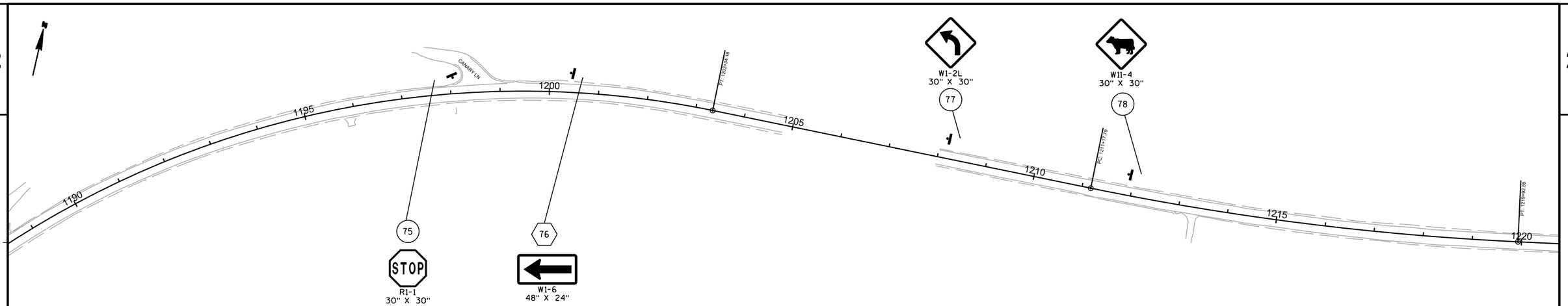
CONTACT THE COUNTY HIGHWAY DEPARTMENT FOR REMOVAL OF STREET NAME SIGNS MOUNTED ON STATE OWNED POSTS. STREET NAME SIGNS SHALL NOT BE MOUNTED TO STATE OWNED SIGNS OR POSTS.

NO MUNICIPLE OR COUNTY SIGNS SHALL BE MOUNTED TO STATE OWNED SIGNS OR POSTS.



PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	PERMANENT SIGNING	SHEET	E

FILE NAME : N:\spo\traffic\SIGNING\Projects\4090-07-71 FDL STH 67\40900771_signplan.dgn PLOT DATE : 14-MAR-2019 07:45 PLOT BY : dotets PLOT NAME : PLOT SCALE : 200:1



SIGNING NOTES

WHEN AN EXISTING STOP OR YIELD SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP OR YIELD SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

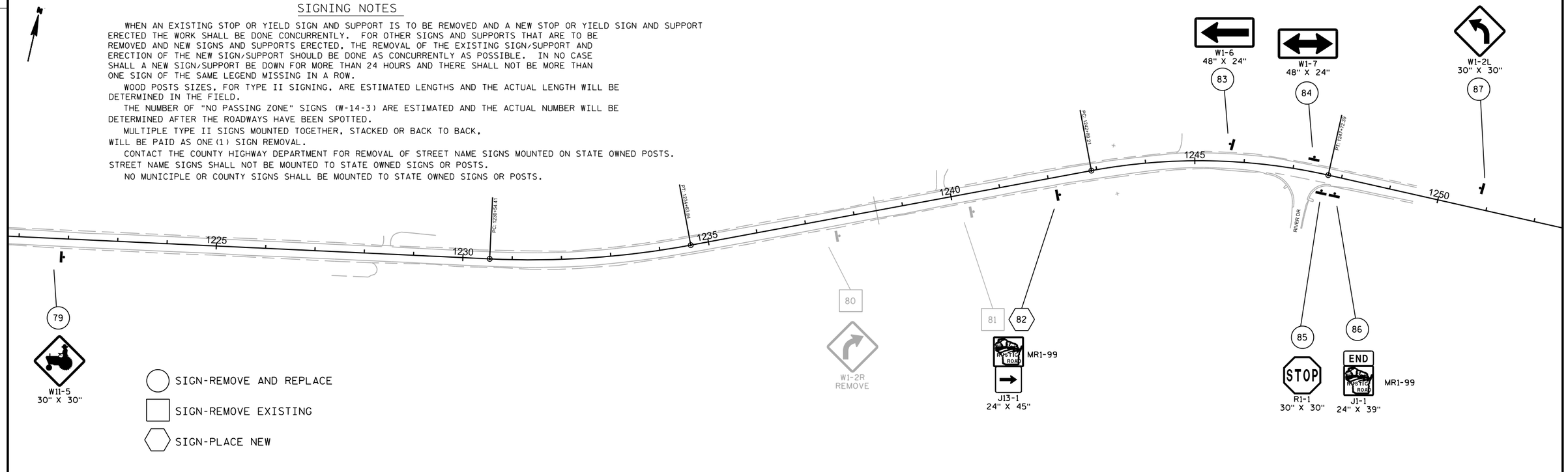
WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

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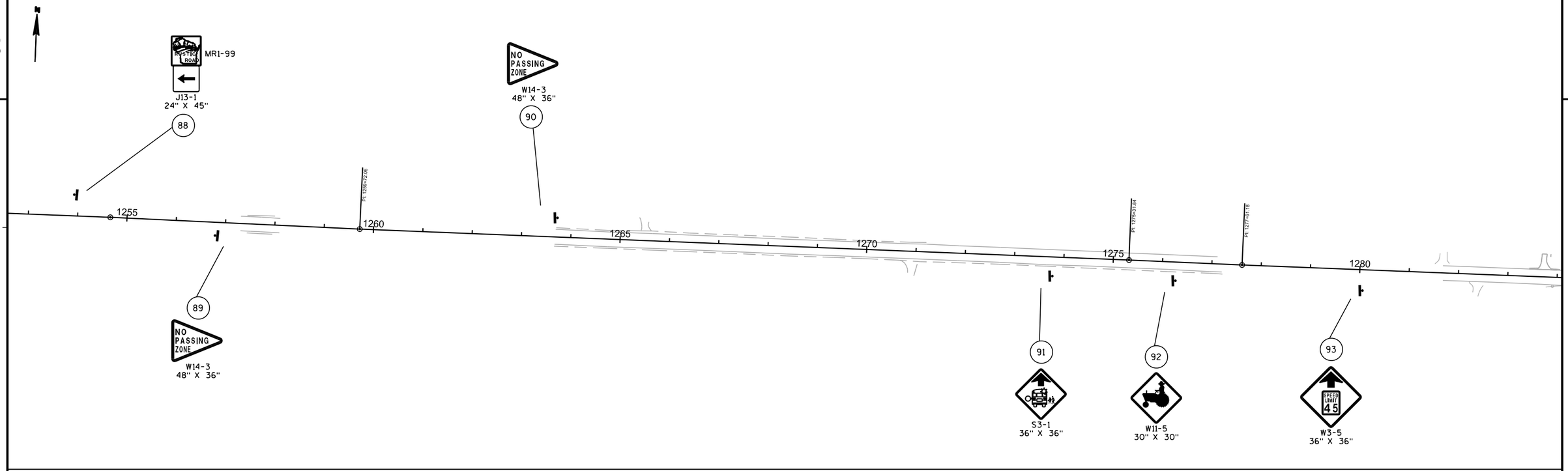
SIGN-REMOVE AND REPLACE

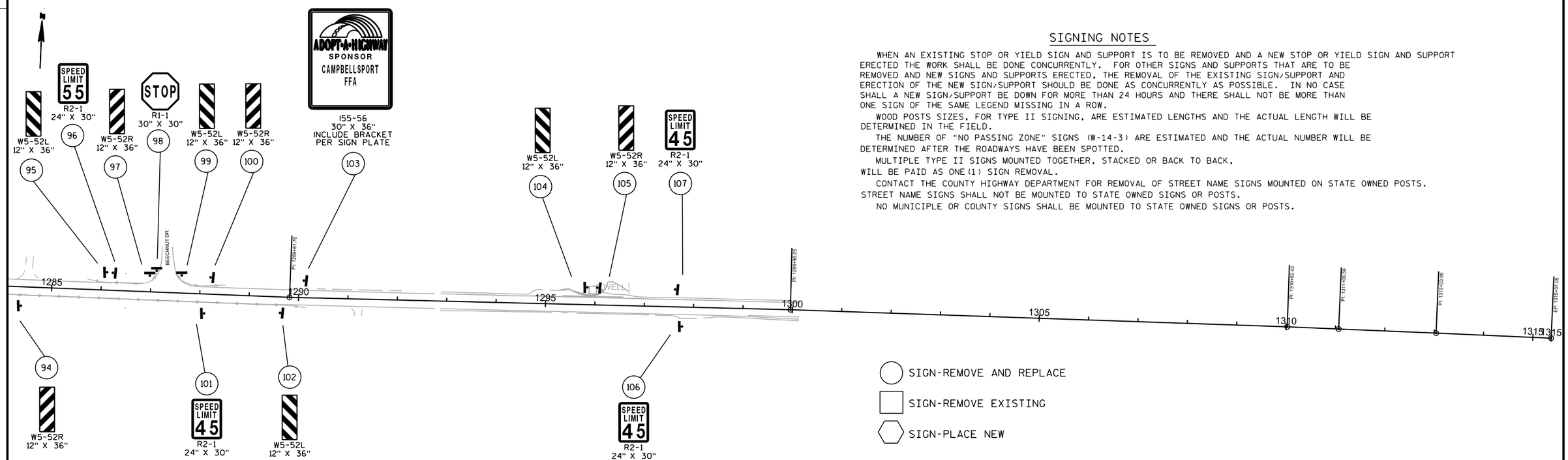
SIGN-REMOVE EXISTING

SIGN-PLACE NEW

PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	PERMANENT SIGNING	SHEET	E

FILE NAME : N:\spo\traffic\SIGNING\Projects\4090-07-71 FDL STH 67\40900771_signplan.dgn PLOT DATE : 14-MAR-2019 07:45 PLOT BY : dotets PLOT NAME : PLOT SCALE : 200:1





SIGNING NOTES

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SIGN-REMOVE AND REPLACE

SIGN-REMOVE EXISTING

SIGN-PLACE NEW

PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	PERMANENT SIGNING	SHEET	E

4090-07-71

Line	Item	Item Description	Unit	Total	Qty
0002	201.0120	Clearing	ID	365.000	365.000
0004	201.0220	Grubbing	ID	365.000	365.000
0006	203.0100	Removing Small Pipe Culverts	EACH	4.000	4.000
0008	203.0200	Removing Old Structure (station) 01. Sta 1022+05	LS	1.000	1.000
0010	203.0200	Removing Old Structure (station) 02. Sta 1108+26	LS	1.000	1.000
0012	203.0200	Removing Old Structure (station) 03. Sta 1157+37	LS	1.000	1.000
0014	203.0200	Removing Old Structure (station) 04. Sta 1238+48	LS	1.000	1.000
0016	203.0200	Removing Old Structure (station) 05. Sta 1286+50	LS	1.000	1.000
0018	204.0100	Removing Pavement	SY	160.000	160.000
0020	204.0110	Removing Asphaltic Surface	SY	340.000	340.000
0022	204.0115	Removing Asphaltic Surface Butt Joints	SY	135.000	135.000
0024	204.0120	Removing Asphaltic Surface Milling	SY	105,870.000	105,870.000
0026	204.0150	Removing Curb & Gutter	LF	630.000	630.000
0028	204.0155	Removing Concrete Sidewalk	SY	24.000	24.000
0030	204.0165	Removing Guardrail	LF	2,238.000	2,238.000
0032	204.0245	Removing Storm Sewer (size) 01. 36-Inch	LF	520.000	520.000
0034	204.9060.S	Removing (item description) 01. Retaining Wall, Sta. 1022+03, RT	EACH	1.000	1.000
0036	204.9060.S	Removing (item description) 02. Retaining Wall, Sta. 1022+06, LT	EACH	1.000	1.000
0038	204.9060.S	Removing (item description) 03. Retaining Wall, Sta. 1157+36, LT	EACH	1.000	1.000
0040	204.9060.S	Removing (item description) 04. Retaining Wall, Sta. 1286+57, LT	EACH	1.000	1.000
0042	204.9060.S	Removing (item description) 05. Retaining Wall, Sta. 1286+81, RT	EACH	1.000	1.000
0044	205.0100	Excavation Common	CY	1,937.000	1,937.000
0046	206.2000	Excavation for Structures Culverts (structure) 01. Sta 1022+05	LS	1.000	1.000
0048	206.2000	Excavation for Structures Culverts (structure) 02. Sta 1108+26	LS	1.000	1.000
0050	206.2000	Excavation for Structures Culverts (structure) 03. Sta 1157+37	LS	1.000	1.000
0052	206.2000	Excavation for Structures Culverts (structure) 04. Sta 1238+48	LS	1.000	1.000
0054	206.2000	Excavation for Structures Culverts (structure) 05. Sta 1286+50	LS	1.000	1.000
0056	208.0100	Borrow	CY	2,327.000	2,327.000
0058	210.2500	Backfill Structure Type B	TON	446.000	446.000
0060	211.0100	Prepare Foundation for Asphaltic Paving (project) 01. Project 4090-07-71	LS	1.000	1.000
0062	213.0100	Finishing Roadway (project) 01. Project 4090-07-71	EACH	1.000	1.000

4090-07-71

Line	Item	Item Description	Unit	Total	Qty
0064	305.0110	Base Aggregate Dense 3/4-Inch	TON	1,100.000	1,100.000
0066	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	295.000	295.000
0068	311.0110	Breaker Run	TON	118.000	118.000
0070	416.0160	Concrete Driveway 6-Inch	SY	160.000	160.000
0072	455.0605	Tack Coat	GAL	14,515.000	14,515.000
0074	460.2000	Incentive Density HMA Pavement	DOL	9,510.000	9,510.000
0076	460.4110.S	Reheating HMA Pavement Longitudinal Joints	LF	59,615.000	59,615.000
0078	460.5224	HMA Pavement 4 LT 58-28 S	TON	10,400.000	10,400.000
0080	460.5225	HMA Pavement 5 LT 58-28 S	TON	4,455.000	4,455.000
0082	465.0105	Asphaltic Surface	TON	75.000	75.000
0084	465.0110	Asphaltic Surface Patching	TON	20.000	20.000
0086	465.0315	Asphaltic Flumes	SY	20.000	20.000
0088	465.0475	Asphalt Centerline Rumble Strips 2-Lane Rural	LF	19,220.000	19,220.000
0090	502.4204	Adhesive Anchors No. 4 Bar	EACH	220.000	220.000
0092	504.0100	Concrete Masonry Culverts	CY	75.000	75.000
0094	505.0400	Bar Steel Reinforcement HS Structures	LB	7,540.000	7,540.000
0096	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	3,800.000	3,800.000
0098	516.0500	Rubberized Membrane Waterproofing	SY	73.000	73.000
0100	520.1018	Apron Endwalls for Culvert Pipe 18-Inch	EACH	4.000	4.000
0102	520.1024	Apron Endwalls for Culvert Pipe 24-Inch	EACH	4.000	4.000
0104	520.1030	Apron Endwalls for Culvert Pipe 30-Inch	EACH	2.000	2.000
0106	520.3318	Culvert Pipe Class III-A 18-Inch	LF	58.000	58.000
0108	520.3324	Culvert Pipe Class III-A 24-Inch	LF	16.000	16.000
0110	520.3330	Culvert Pipe Class III-A 30-Inch	LF	10.000	10.000
0112	520.4130	Culvert Pipe Class IV 30-Inch	LF	48.000	48.000
0114	520.8000	Concrete Collars for Pipe	EACH	10.000	10.000
0116	520.8700	Cleaning Culvert Pipes	EACH	2.000	2.000
0118	520.9700.S	Culvert Pipe Liners (size) 01. 24-Inch	LF	224.000	224.000
0120	520.9700.S	Culvert Pipe Liners (size) 02. 30-Inch	LF	110.000	110.000
0122	520.9700.S	Culvert Pipe Liners (size) 03. 36-Inch	LF	84.000	84.000
0124	520.9750.S	Cleaning Culvert Pipes for Liner Verification	EACH	5.000	5.000
0126	521.1524	Apron Endwalls for Culvert Pipe Sloped Side Drains Steel 24-Inch 6 to 1	EACH	2.000	2.000
0128	521.1536	Apron Endwalls for Culvert Pipe Sloped Side Drains Steel 36-Inch 6 to 1	EACH	2.000	2.000
0130	521.3124	Culvert Pipe Corrugated Steel 24-Inch	LF	20.000	20.000
0132	522.0130	Culvert Pipe Reinforced Concrete Class III 30-Inch	LF	68.000	68.000
0134	522.0136	Culvert Pipe Reinforced Concrete Class III 36-Inch	LF	8.000	8.000
0136	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	6.000	6.000

4090-07-71

Line	Item	Item Description	Unit	Total	Qty
0138	522.1036	Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	EACH	2.000	2.000
0140	524.0624	Apron Endwalls for Culvert Pipe Salvaged 24-Inch	EACH	2.000	2.000
0142	524.0630	Apron Endwalls for Culvert Pipe Salvaged 30-Inch	EACH	3.000	3.000
0144	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	540.000	540.000
0146	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	75.000	75.000
0148	601.0600	Concrete Curb Pedestrian	LF	40.000	40.000
0150	602.0405	Concrete Sidewalk 4-Inch	SF	200.000	200.000
0152	602.0515	Curb Ramp Detectable Warning Field Natural Patina	SF	20.000	20.000
0154	606.0100	Riprap Light	CY	45.000	45.000
0156	608.0336	Storm Sewer Pipe Reinforced Concrete Class III 36-Inch	LF	532.000	532.000
0158	611.2005	Manholes 5-FT Diameter	EACH	1.000	1.000
0160	614.0305	Steel Plate Beam Guard Class A	LF	513.000	513.000
0162	614.0370	Steel Plate Beam Guard Energy Absorbing Terminal	EACH	13.000	13.000
0164	614.0400	Adjusting Steel Plate Beam Guard	LF	1,038.000	1,038.000
0166	614.0950	Replacing Guardrail Posts and Blocks	EACH	125.000	125.000
0168	614.0951	Replacing Guardrail Rail and Hardware	LF	50.000	50.000
0170	618.0100	Maintenance And Repair of Haul Roads (project) 01. Project 4090-07-71	EACH	1.000	1.000
0172	619.1000	Mobilization	EACH	1.000	1.000
0174	624.0100	Water	MGAL	15.000	15.000
0176	625.0100	Topsoil	SY	19,215.000	19,215.000
0178	627.0200	Mulching	SY	3,400.000	3,400.000
0180	628.1504	Silt Fence	LF	4,925.000	4,925.000
0182	628.1520	Silt Fence Maintenance	LF	4,925.000	4,925.000
0184	628.1905	Mobilizations Erosion Control	EACH	5.000	5.000
0186	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0188	628.2002	Erosion Mat Class I Type A	SY	13,390.000	13,390.000
0190	628.2004	Erosion Mat Class I Type B	SY	1,310.000	1,310.000
0192	628.2023	Erosion Mat Class II Type B	SY	1,120.000	1,120.000
0194	628.7015	Inlet Protection Type C	EACH	4.000	4.000
0196	628.7504	Temporary Ditch Checks	LF	210.000	210.000
0198	628.7555	Culvert Pipe Checks	EACH	120.000	120.000
0200	628.7570	Rock Bags	EACH	200.000	200.000
0202	629.0205	Fertilizer Type A	CWT	11.000	11.000
0204	630.0130	Seeding Mixture No. 30	LB	340.000	340.000
0206	630.0140	Seeding Mixture No. 40	LB	7.000	7.000
0208	633.5200	Markers Culvert End	EACH	44.000	44.000
0210	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	79.000	79.000

4090-07-71

Line	Item	Item Description	Unit	Total	Qty
0212	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	26.000	26.000
0214	637.2210	Signs Type II Reflective H	SF	304.440	304.440
0216	637.2230	Signs Type II Reflective F	SF	246.480	246.480
0218	638.2602	Removing Signs Type II	EACH	101.000	101.000
0220	638.3000	Removing Small Sign Supports	EACH	105.000	105.000
0222	642.5401	Field Office Type D	EACH	1.000	1.000
0224	643.0300	Traffic Control Drums	DAY	3,950.000	3,950.000
0226	643.0310.S	Temporary Portable Rumble Strips	LS	1.000	1.000
0228	643.0410	Traffic Control Barricades Type II	DAY	60.000	60.000
0230	643.0900	Traffic Control Signs	DAY	3,960.000	3,960.000
0232	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000
0234	643.5000	Traffic Control	EACH	1.000	1.000
0236	645.0105	Geotextile Type C	SY	228.000	228.000
0238	645.0120	Geotextile Type HR	SY	60.000	60.000
0240	646.1020	Marking Line Epoxy 4-Inch	LF	51,095.000	51,095.000
0242	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	55,350.000	55,350.000
0244	646.3040	Marking Line Grooved Wet Ref Epoxy 8-Inch	LF	100.000	100.000
0246	648.0100	Locating No-Passing Zones	MI	5.660	5.660
0248	649.0105	Temporary Marking Line Paint 4-Inch	LF	203,735.000	203,735.000
0250	649.0120	Temporary Marking Line Epoxy 4-Inch	LF	51,095.000	51,095.000
0252	650.4000	Construction Staking Storm Sewer	EACH	2.000	2.000
0254	650.6000	Construction Staking Pipe Culverts	EACH	1.000	1.000
0256	650.8000	Construction Staking Resurfacing Reference	LF	29,807.000	29,807.000
0258	650.9910	Construction Staking Supplemental Control (project) 01. Project 4090-07-71	LS	1.000	1.000
0260	650.9920	Construction Staking Slope Stakes	LF	9,687.000	9,687.000
0262	690.0150	Sawing Asphalt	LF	2,230.000	2,230.000
0264	690.0250	Sawing Concrete	LF	150.000	150.000
0266	715.0502	Incentive Strength Concrete Structures	DOL	500.000	500.000
0268	740.0440	Incentive IRI Ride	DOL	45,160.000	45,160.000
0270	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,000.000	2,000.000
0272	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	1,320.000	1,320.000
0274	SPV.0090	Special 01. Salvage and Reset Fence	LF	475.000	475.000

3

CLEARING AND GRUBBING SUMMARY

CATEGORY	STATION	LOCATION	CLEARING 203.0120 ID	GRUBBING 201.0220 ID	REMARKS
0010	1007+84	STH 67, RT	26	26	
0010	1007+99	STH 67, RT	8	8	
0010	1008+08	STH 67, RT	14	14	
0010	1047+37	STH 67, RT	32	32	
0010	1048+48	STH 67, RT	32	32	
0010	1106+54	STH 67, LT	32	32	
0010	1210+84	STH 67, RT	32	32	
0010	1211+39	STH 67, RT	20	20	
0010	1211+51	STH 67, RT	42	42	
0010	1212+79	STH 67, RT	20	20	
0010	1241+00	STH 67, LT	56	56	
0010	1241+12	STH 67, LT	16	16	
0010	1241+33	STH 67, LT	17	17	
0010	1241+49	STH 67, LT	18	18	
			365	**365**	

REMOVING SMALL PIPE CULVERTS

CATEGORY	STATION	LOCATION	203.0100 EA	REMARKS
0010	1165+90	STH 67	1	30-INCH CMCP - 58 LF
0010	1174+13	STH 67, RT	1	18-INCH CMCP - 32 LF
0010	1239+80	STH 67, LT	1	18-INCH CMCP - 24 LF
0010	1265+48	STH 67, LT	1	18-INCH CMCP - 21 LF
	SUBTOTAL		**4**	

REMOVING RETAINING WALL

CATEGORY	ITEM NUMBER	DESCRIPTION	EA	REMARKS
0010	204.9060.S.01	1022+03 RT	1	GUARDRAIL RETAINING WALL
0010	204.9060.S.02	1022+06 LT	1	GUARDRAIL RETAINING WALL
0010	204.9060.S.03	1157+36 LT	1	GUARDRAIL RETAINING WALL
0010	204.9060.S.04	1286+57 LT	1	GUARDRAIL RETAINING WALL
0010	204.9060.S.05	1286+81 RT	1	GUARDRAIL RETAINING WALL

REMOVING ASPHALTIC SURFACE BUTT JOINTS

CATEGORY	LOCATION	204.0115 SY	REMARKS
0010	STA. 999+10.20, STH 67	7	
0010	STA. 1175+07.66, STH 67	12	
0010	STA. 1175+90.18, STH 67	12	
0010	STA. 1298+00, STH 67	7	
0010	GOLDEN CORNERS RD	6	
0010	ARROW LN	4	
0010	ASHLAND DR	7	
0010	PLEASANT HILL RD	6	
0010	SUPER DR	5	
0010	MINNIE DR	5	
0010	DRUMLIN DR	6	
0010	WILLOW LN	5	
0010	KATZENBURG DR	5	
0010	MEMORIAL DR	6	
0010	OLD 67 RD	6	
0010	S. ROLLING DR	5	
0010	N. ROLLING DR	7	
0010	S. CANARY LN	6	
0010	N. CANARY LN	6	
0010	RIVER DR	6	
0010	BEECHNUT DR	6	
	TOTAL	**135**	

REMOVING ASPHALTIC SURFACE MILLING

CATEGORY	STATION	TO	STATION	LOCATION	204.0120 SY	REMARKS
0010	999+10	-	1000+95	STH 67	665	
0010	1000+95	-	1019+28	STH 67	6,110	
0010	1019+28	-	1022+48	STH 67	1,065	
0010	1022+48	-	1028+32	STH 67	2,830	
0010	1028+32	-	1051+91	STH 67	7,865	
0010	1051+91	-	1053+88	STH 67	700	
0010	1053+88	-	1065+25	STH 67	3,790	
0010	1065+25	-	1072+14	STH 67	2,340	
0010	1072+14	-	1083+58	STH 67	4,065	
0010	1083+58	-	1085+95	STH 67	925	
0010	1085+95	-	1091+50	STH 67	1,850	
0010	1091+50	-	1093+27	STH 67	640	
0010	1093+27	-	1105+12	STH 67	3,950	
0010	1105+12	-	1106+83	STH 67	620	
0010	1106+83	-	1115+03	STH 67	2,785	
0010	1115+03	-	1121+40	STH 67	2,125	
0010	1121+40	-	1126+77	STH 67	1,850	
0010	1126+77	-	1133+69	STH 67	2,305	
0010	1133+69	-	1135+25	STH 67	560	
0010	1135+25	-	1155+68	STH 67	6,810	
0010	1155+68	-	1157+59	STH 67	670	
0010	1157+59	-	1166+20	STH 67	2,870	
0010	1166+20	-	1168+09	STH 67	685	
0010	1168+09	-	1175+08	STH 67	2,350	
0010	1175+90	-	1178+22	STH 67	850	
0010	1178+22	-	1187+11	STH 67	2,960	
0010	1187+11	-	1188+88	STH 67	590	
0010	1188+88	-	1197+74	STH 67	2,955	
0010	1197+74	-	1199+55	STH 67	650	
0010	1199+55	-	1246+02	STH 67	15,525	
0010	1246+02	-	1248+20	STH 67	780	
0010	1248+20	-	1283+76	STH 67	11,850	
0010	1283+76	-	1289+89	STH 67	2,030	
0010	1289+89	-	1298+00	STH 67	2,700	
				SUBTOTAL	**101,315**	

REMOVING ASPHALTIC SURFACE MILLING CONT.

CATEGORY	LOCATION	204.0120 SY	REMARKS
0010	GOLDEN CORNERS RD	300	
0010	ARROW LN	95	
0010	ASHLAND DR	315	
0010	PLEASANT HILL RD	255	
0010	SUPER DR	295	
0010	MINNIE DR	125	
0010	DRUMLIN DR	285	
0010	WILLOW LN	95	
0010	KATZENBURG DR	290	
0010	MEMORIAL DR	270	
0010	OLD 67 RD	345	
0010	S. ROLLING DR	365	
0010	N. ROLLING DR	230	
0010	S. CANARY LN	375	
0010	N. CANARY LN	380	
0010	RIVER DR	275	
0010	BEECHNUT DR	260	
	SUBTOTAL	**4,555**	
	TOTAL	**105,870**	

REMOVING PAVEMENT, ASPHALTIC SURFACE, CURB & GUTTER AND SIDEWALK

CATEGORY	STATION	TO	STATION	LOCATION	204.0100 REMOVING PAVEMENT SY	204.0110 REMOVING ASPHALTIC SURFACE SY	204.0150 REMOVING CURB & GUTTER LF	204.0155 REMOVING CONCRETE SIDEWALK SY	REMARKS
0010	1021+49	-	1028+48	STH 67, RT	---	18	---	---	REMOVAL OF EXCESS SHOULDER PAVEMENT AT RETAINING WALL
0010	1021+69	-	1022+52	STH 67, LT	---	7	---	---	REMOVAL OF EXCESS SHOULDER PAVEMENT AT RETAINING WALL
0010	1066+59	-	1067+02	STH 67, LT	---	10	45	---	SUPER DRIVE RADIUS
0010	1072+14	-	1077+16	STH 67, LT	160	108	505	---	STORM REPLACEMENT
0010	1076+33	-	1076+55	STH 67, LT	---	18	---	---	DRIVEWAY FOR STORM REPLACMENT
0010	1077+30	-	1077+55	STH 67, RT	---	6	25	12	CURB RAMP CONSTRUCTION
0010	1077+30	-	1077+55	STH 67, LT	---	6	25	12	CURB RAMP CONSTRUCTION
0010	1157+04	-	1157+59	STH 67, LT	---	8	---	---	REMOVAL OF EXCESS SHOULDER PAVEMENT AT RETAINING WALL
0010	1165+85	-	1165+95	STH 67	---	35	---	---	CULVERT REPLACEMENT
0010	1176+70	-	1176+96	STH 67, LT	---	6	30	---	ROLLING DRIVE RADIUS
0010	1283+76	-	1289+89	STH 67, RT	---	107	---	---	REMOVAL OF EXCESS SHOULDER PAVEMENT AT RETAINING WALL
0010	1286+12	-	1286+99	STH 67, LT	---	11	---	---	REMOVAL OF EXCESS SHOULDER PAVEMENT AT RETAINING WALL
				TOTALS	**160**	**340**	**630**	**24**	

REMOVING GUARDRAIL

CATEGORY	STATION	TO	STATION	LOCATION	204.0165 LF	REMARKS
0010	1021+18	-	1022+97	STH 67, RT	120	
0010	1021+43	-	1022+59	STH 67, LT	180	
0010	1067+03		1067+53	STH 67, LT	50	
0010	1071+65		1072+32	STH 67, LT	67	
0010	1107+33		1108+87	STH 67, RT	154	
0010	1107+96		1109+12	STH 67, LT	116	
0010	1109+36		1109+75	STH 67, RT	39	
0010	1109+53		1110+03	STH 67, LT	50	
0010	1114+78		1115+18	STH 67, LT	40	
0010	1114+96		1115+38	STH 67, RT	42	
0010	1121+29		1121+72	STH 67, RT	43	
0010	1122+35		1122+74	STH 67, LT	39	
0010	1127+00		1127+57	STH 67, RT	57	
0010	1156+87		1157+90	STH 67, LT	103	
0010	1173+98		1174+38	STH 67, LT	40	
0010	1174+23		1174+82	STH 67, RT	65	
0010	1176+16		1176+80	STH 67, LT	65	
0010	1176+81		1177+46	STH 67, RT	65	
0010	1283+78		1290+16	STH 67, RT	639	
0010	1285+71		1287+12	STH 67, LT	151	
0010	1287+51		1288+52	STH 67, LT	113	
				SUBTOTAL	**2,238**	

EARTHWORK SUMMARY

STATION TO STATION	LOCATION	205.0100 EXCAVATION COMMON (1) CUT (2) CY	205.0100 EXCAVATION COMMON (1) EBS EXCAV. (3) CY	SALVAGED/UNUSABLE PAVEMENT MATERIAL (2) CY	AVAILABLE MATERIAL (4) CY	UNEXPANDED FILL CY	EXPANDED FILL (7) FACTOR 1.33 CY	MASS ORDINATE +/- (8) CY	WASTE CY	208.0100 BORROW (9) CY	REMARKS
1005+50 - 1009+50	STEEP SLOPES	64	0	0	64	6	8	56	56	0	
1010+50 - 1012+50	STEEP SLOPES	6	0	0	6	36	48	-42	0	-36	
1015+50 - 1019+00	STEEP SLOPES	42	0	0	42	4	5	37	37	0	
1029+00 - 1032+75	STEEP SLOPES	268	0	0	268	22	29	239	239	0	
1034+75 - 1037+00	STEEP SLOPES	70	0	0	70	5	6	63	63	0	
1047+00 - 1050+50	STEEP SLOPES	194	0	0	194	8	10	184	184	0	
1054+50 - 1057+00	STEEP SLOPES	8	0	0	8	22	29	-22	0	-19	
1064+00 - 1065+75	STEEP SLOPES	0	0	0	0	49	65	-65	0	-56	
1066+00 - 1068+75	STEEP SLOPES	15	0	0	15	16	22	-7	0	-6	
1170+00 - 1171+50	STEEP SLOPES	169	0	0	169	13	18	151	151	0	
1184+00 - 1185+00	STEEP SLOPES	17	0	0	17	4	5	12	12	0	
1188+50 - 1189+50	STEEP SLOPES	0	0	0	0	127	169	-169	0	-146	
1195+50 - 1198+10	STEEP SLOPES	3	0	0	3	68	90	-87	0	-75	
1214+00 - 1215+50	STEEP SLOPES	2	0	0	2	43	57	-55	0	-47	
1228+75 - 1229+50	STEEP SLOPES	1	0	0	1	2	3	-2	0	-2	
1232+50 - 1232+75	STEEP SLOPES	2	0	0	2	0	0	2	2	0	
1237+50 - 1241+50	STEEP SLOPES	71	0	0	71	284	378	-307	0	-265	
1264+00 - 1265+50	STEEP SLOPES	29	0	0	29	43	58	-29	0	-25	
1268+00 - 1270+50	STEEP SLOPES	0	0	0	0	236	314	-314	0	-272	
1020+00 - 1024+50	BEAM GUARD GRADING	37	0	0	37	346	460	-423	0	-366	
1066+85 - 1067+40	BEAM GUARD GRADING	15	0	0	15	69	92	-77	0	-67	
1071+78 - 1072+83	BEAM GUARD GRADING	22	0	0	22	21	28	-6	0	-5	
1107+91 - 1110+03	BEAM GUARD GRADING	5	0	0	5	263	350	-345	0	-298	
1115+21 - 1122+37	BEAM GUARD GRADING	468	0	0	468	119	158	310	310	0	
1128+25 - 1129+83	BEAM GUARD GRADING	0	0	0	0	106	141	-141	0	-122	
1157+00 - 1158+00	BEAM GUARD GRADING	25	0	0	25	159	212	-187	0	-162	
1172+00 - 1174+82	BEAM GUARD GRADING	384	0	0	384	117	156	228	228	0	
1176+16 - 1178+50	BEAM GUARD GRADING	5	0	0	5	58	77	-73	0	-63	
1283+50 - 1290+50	BEAM GUARD GRADING	16	0	0	16	1,384	1,840	-1,824	0	-1577	
	SUBTOTAL	1,937	0	0	1,937	3,630	4,828	-2,892	0	-2,327	
	TOTAL	**1,937**			**1,937**	**3,630**	**4,828**	**-2,892**	**0**	**-2,327**	

1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100.

2) SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.

4) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSABLE PAVEMENT MATERIAL.

7) EXPANDED FILL: FACTOR = 1.33; EXPANDED FILL = (UNEXPANDED FILL - ROCK * ROCK FACTOR) * FILL FACTOR

8) 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.

9) BORROW EXPANSION: FACTOR = 1.15

3

REMOVING STORM SEWER 36-INCH

CATEGORY	STATION	TO	STATION	LOCATION	204.0245.01 LF	REMARKS
0010	1071+93	-	1077+10	STH 67, LT	520	
				SUBTOTAL	**520**	

PREPARE FOUNDATION FOR ASPHALTIC PAVING

CATEGORY	STATION	TO	STATION	LOCATION	211.0100 LS
0010	999+10.20	-	1298+00	STH 67, LT & RT	1
				TOTAL	**1**

BASE AGGREGATE DENSE

CATEGORY	STATION	TO	STATION	LOCATION	305.0110 3/4-INCH TON	305.0120 1 1/4-INCH TON	REMARKS
0010	999+10	-	999+27	STH 67, RT	1	---	
0010	1000+50	-	1052+21	STH 67, RT	114	---	
0010	1053+45	-	1072+14	STH 67, RT	30	8	
0010	1077+30	-	1077+55	STH 67, RT	---	7	
0010	1085+54	-	1105+17	STH 67, RT	30	---	
0010	1106+36	-	1109+75	STH 67, RT	20	---	
0010	1114+78	-	1121+71	STH 67, RT	40	---	
0010	1126+70	-	1133+79	STH 67, RT	25	---	
0010	1134+94	-	1155+81	STH 67, RT	35	---	
0010	1156+95	-	1166+32	STH 67, RT	15	13	
0010	1167+58	-	1175+13	STH 67, RT	25	25	
0010	1176+17	-	1246+47	STH 67, RT	125	---	
0010	1247+81	-	1298+00	STH 67, RT	105	---	
0010	999+10	-	1024+75	STH 67, LT	45	---	
0010	1026+06	-	1065+80	STH 67, LT	60	---	
0010	1067+02	-	1067+40	STH 67, LT	15	---	
0010	1071+78	-	1072+14	STH 67, LT	15	---	
0010	1072+27	-	1074+24	STH 67, LT	---	165	
0010	1077+30	-	1077+55	STH 67, LT	---	8	
0010	1085+54	-	1091+88	STH 67, LT	10	---	
0010	1093+12	-	1105+53	STH 67, LT	20	---	
0010	1106+11	-	1110+76	STH 67, LT	25	---	
0010	1114+76	-	1122+71	STH 67, LT	45	---	
0010	1126+58	-	1174+78	STH 67, LT	80	13	
0010	1175+04	-	1176+70	STH 67, LT	35	6	
0010	1178+02	-	1187+42	STH 67, LT	15	---	
0010	1188+57	-	1198+05	STH 67, LT	15	---	
0010	1199+28	-	1286+99	STH 67, LT	140	50	
0010	1287+90	-	1298+00	STH 67, LT	15	---	
				TOTAL	**1,100**	**295**	

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HMA PAVEMENT SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	455.0605 TACK COAT GAL	460.5224 HMA PAVEMENT 4 LT 58-28 S TON	460.5225 HMA PAVEMENT 5 LT 58-28 S TON	460.4110.S REHEATING HMA PAVEMENT LONG. JOINTS LF	REMARKS
0010	999+10	-	1000+95	STH 67	95	65	30	371	
0010	1000+95	-	1019+28	STH 67	855	600	255	3,665	
0010	1019+28	-	1022+48	STH 67	150	105	45	640	
0010	1022+48	-	1028+32	STH 67	395	280	115	1,167	
0010	1028+32	-	1051+91	STH 67	1,100	770	330	4,719	
0010	1051+91	-	1053+88	STH 67	100	70	30	393	
0010	1053+88	-	1065+25	STH 67	530	370	160	2,273	
0010	1065+25	-	1072+14	STH 67	335	235	100	1,380	
0010	1072+14	-	1083+58	STH 67	570	400	170	2,287	
0010	1083+58	-	1085+95	STH 67	130	90	40	474	
0010	1085+95	-	1091+50	STH 67	260	180	80	1,111	
0010	1091+50	-	1093+27	STH 67	90	60	25	353	
0010	1093+27	-	1105+12	STH 67	555	385	165	2,370	
0010	1105+12	-	1106+83	STH 67	85	60	25	343	
0010	1106+83	-	1115+03	STH 67	395	280	120	1,639	
0010	1115+03	-	1121+40	STH 67	300	210	90	1,274	
0010	1121+40	-	1126+77	STH 67	260	185	80	1,075	
0010	1126+77	-	1133+69	STH 67	325	230	100	1,383	
0010	1133+69	-	1135+25	STH 67	80	55	25	313	
0010	1135+25	-	1155+68	STH 67	955	665	285	4,085	
0010	1155+68	-	1157+59	STH 67	95	65	25	382	
0010	1157+59	-	1166+20	STH 67	400	280	120	1,722	
0010	1166+20	-	1168+09	STH 67	95	65	30	379	
0010	1168+09	-	1175+08	STH 67	335	235	100	1,397	
0010	1175+90	-	1178+22	STH 67	125	85	35	464	
0010	1178+22	-	1187+11	STH 67	415	290	125	1,777	
0010	1187+11	-	1188+88	STH 67	85	60	25	354	
0010	1188+88	-	1197+74	STH 67	415	290	125	1,772	
0010	1197+74	-	1199+55	STH 67	90	65	25	363	
0010	1199+55	-	1246+02	STH 67	2,170	1,520	650	9,293	
0010	1246+02	-	1248+20	STH 67	110	75	35	437	
0010	1248+20	-	1283+76	STH 67	1,660	1,160	500	7,111	
0010	1283+76	-	1289+89	STH 67	285	200	85	1,227	
0010	1289+89	-	1298+00	STH 67	380	265	115	1,621	
				SUBTOTALS	**14,225**	**9,950**	**4,265**	**59,615**	

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HMA PAVEMENT SUMMARY CONT.

CATEGORY	STATION TO STATION LOCATION	455.0605 TACK COAT GAL	460.5224 HMA PAVEMENT 4 LT 58-28 S TON	460.5225 HMA PAVEMENT 5 LT 58-28 S TON	460.4110.S REHEATING HMA PAVEMENT LONG. JOINTS LF	REMARKS
0010	GOLDEN CORNERS RD	15	30	15	0	
0010	ARROW LN	10	10	5	0	
0010	ASHLAND DR	20	30	15	0	
0010	PLEASANT HILL RD	40	25	10	0	
0010	SUPER DR	25	30	15	0	
0010	MINNIE DR	25	10	5	0	
0010	DRUMLIN DR	20	30	10	0	
0010	WILLOW LN	10	10	5	0	
0010	KATZENBURG DR	10	30	10	0	
0010	MEMORIAL DR	5	25	10	0	
0010	OLD 67 RD	10	35	15	0	
0010	S. ROLLING DR	5	35	15	0	
0010	N. ROLLING DR	5	25	10	0	
0010	S. CANARY LN	20	35	15	0	
0010	N. CANARY LN	25	40	15	0	
0010	RIVER DR	20	25	10	0	
0010	BEECHNUT DR	25	25	10	0	
	SUBTOTALS	**290**	**450**	**190**	**0**	
	TOTALS	**14,515**	**10,400**	**4,455**	**59,615**	

ASPHALTIC SUFACE SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	465.0105 ASPHALTIC SURFACE TON	465.0110 ASPHALTIC SURFACE PATCHING TON	REMARKS
0010	1066+59	-	1067+02	STH 67, LT	4	---	
0010	1072+27	-	1074+24	STH 67, LT	46	---	
0010	1076+33	-	1076+55	STH 67, LT	3	---	DRIVEWAY PAVEMENT DEPTH = 3"
0010	1077+30	-	1077+55	STH 67	5	---	
0010	1165+85	-	1165+95	STH 67	14		
0010	1176+70	-	1176+95	STH 67, LT	3	---	
0010	UNDISTRIBUTED				---	20	
				TOTALS	**75**	**20**	

ASPHALTIC FLUMES

CATEGORY	LOCATION	465.0315 SY	REMARKS
0010	STH 67, STA. 1072+27, LT	20	
	TOTAL	**20**	

ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL

CATEGORY	STATION	TO	STATION	LOCATION	465.0475 LF	REMARKS
0010	1002+00	-	1017+53	STH 67	1,553	
0010	1021+53	-	1023+32	STH 67	179	
0010	1027+32	-	1050+93	STH 67	2,361	
0010	1054+93	-	1055+85	STH 67	92	
0010	1057+85	-	1064+31	STH 67	646	
0010	1102+50	-	1103+82	STH 67	132	
0010	1107+83	-	1132+35	STH 67	2,452	
0010	1136+35	-	1154+37	STH 67	1,802	
0010	1158+37	-	1164+84	STH 67	647	
0010	1168+84	-	1174+83	STH 67	599	
0010	1179+27	-	1185+97	STH 67	670	
0010	1189+97	-	1196+65	STH 67	668	
0010	1200+65	-	1216+00	STH 67	1,535	
0010	1220+50	-	1245+28	STH 67	2,478	
0010	1249+28	-	1276+65	STH 67	2,737	
0010	1278+65	-	1285+34	STH 67	669	
				TOTALS	**19,220**	

CULVERT PIPE LINERS SUMMARY

CATEGORY	STATION	LOCATION	520.9700.S.01 24-INCH LF	520.9700.S.02 30-INCH LF	520.9700.S.03 36-INCH LF	520.9750.S CLEANING CULVERT PIPES FOR LINER VERIFICATION EA	REMARKS
0010	1092+12	STH 67	---	---	84	1	SLOPE = 0.003 FT/FT
0010	1132+60	STH 67	54	---	---	1	SLOPE = 0.002 FT/FT
0010	1142+77	STH 67	74	---	---	1	SLOPE = 0.002 FT/FT
0010	1196+33	STH 67	---	52	---	---	SLOPE = 0.031 FT/FT
0010	1243+66	STH 67	---	58	---	1	SLOPE = 0.018 FT/FT
0010	1257+70	STH 67	50	---	---	1	SLOPE = 0.012 FT/FT
0010	1264+75	STH 67	46	---	---	---	SLOPE = 0.022 FT/FT
		TOTALS	**224**	**110**	**84**	**5**	

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APRON ENDWALL SUMMARY

CAT.	STATION	LOCATION		520.1018 APRON ENDWALLS FOR CULVERT PIPE 18-INCH EA	520.1024 APRON ENDWALLS FOR CULVERT PIPE 24-INCH EA	520.1030 APRON ENDWALLS FOR CULVERT PIPE 30-INCH EA	521.1524 APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 24-INCH 6 TO 1 EA	521.1536 APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 36-INCH 6 TO 1 EA	522.1030 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH EA	522.1036* APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 36-INCH EA	524.0624 APRON ENDWALLS FOR CULVERT PIPE SALVAGED 24-INCH EA	524.0630 APRON ENDWALLS FOR CULVERT PIPE SALVAGED 30-INCH EA	REMARKS
0010	1039+24	STH 67	RT	---	---	---	---	---	---	---	1	---	2-JOINT TIES REQD. (INCIDENTAL TO ENDWALL ITEM)
0010	1047+17	STH 67	RT	---	---	---	---	---	---	---	---	1	
0010	1055+63	STH 67	LT	---	---	---	---	2	---	---	---	---	
0010	1068+75	STH 67	RT	---	---	---	---	---	---	1	---	---	
0010	1077+17	STH 67	LT & RT	---	---	---	---	---	---	---	---	---	
0010	1132+60	STH 67	LT	---	1	---	---	---	---	---	---	---	
0010	1165+90	STH 67	LT & RT	---	---	2	---	---	---	---	---	---	
0010	1174+13	STH 67	RT	2	---	---	---	---	---	---	---	---	
0010	1188+92	STH 67	LT & RT	---	---	---	---	---	2	---	---	---	
0010	1188+97	STH 67	LT & RT	---	---	---	---	---	2	---	---	---	
0010	1196+33	STH 67	LT	---	---	---	---	---	---	---	---	1	
0010	1198+05	STH 67	LT	---	---	---	---	---	1	---	---	---	
0010	1214+91	STH 67	LT & RT	---	---	---	---	---	1	---	---	1	
0010	1239+80	STH 67	LT	2	---	---	---	---	---	---	---	---	
0010	1257+70	STH 67	LT & RT	---	2	---	---	---	---	---	---	---	
0010	1264+75	STH 67	LT & RT	---	1	---	---	---	---	---	1	---	
0010	1265+48	STH 67	LT	---	---	---	2	---	---	---	---	---	
		TOTALS		**4**	**4**	**2**	**2**	**2**	**6**	**1**	**2**	**3**	

*-ADDITIONAL QUANTITIES SHOWN ELSEWHERE

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CULVERT PIPE SUMMARY

CAT.	STATION	LOCATION		520.3318 CULVERT PIPE CLASS III-A 18-INCH LF	520.3324 CULVERT PIPE CLASS III-A 24-INCH LF	520.3330 CULVERT PIPE CLASS III-A 30-INCH LF	520.4130 CULVERT PIPE CLASS IV 30-INCH LF	520.8000* CONCRETE COLLARS FOR PIPE EA	520.8700 CLEANING CULVERT PIPES EA	521.3124 CULVERT PIPE CORRUGATED STEEL 24-INCH LF	522.0130 CULVERT PIPE REINFORCED CONCRETE CLASS III 30-INCH LF	522.0136 CULVERT PIPE REINFORCED CONCRETE CLASS III 36-INCH LF	MINIMUM THICKNESS CORRUGATED STEEL INCHES	REMARKS
0010	1047+17	STH 67	RT	---	---	---	---	1	---	---	6	---	---	2-JOINT TIES REQD. (INCIDENTAL TO CULVERT ITEM)
0010	1068+75	STH 67	RT	---	---	---	---	1	---	---	---	8	---	2-JOINT TIES REQD. (INCIDENTAL TO CULVERT ITEM)
0010	1077+17	STH 67	LT & RT	---	---	---	---	---	2	---	---	---	---	TWIN CELL BOX CULVERT
0010	1165+90	STH 67	LT & RT	---	---	---	48	---	---	---	---	---	0.079	INLET: 24' RT, ELEV. 1002.35, OUTFALL: 24' LT, ELEV. 1001.75
0010	1174+13	STH 67	RT	32	---	---	---	---	---	---	---	---	0.064	
0010	1188+92	STH 67	LT & RT	---	---	---	---	2	---	---	22	---	---	2-JOINT TIES REQD. (INCIDENTAL TO CULVERT ITEM)
0010	1188+97	STH 67	LT & RT	---	---	---	---	2	---	---	22	---	---	
0010	1196+33	STH 67	LT	---	---	10	---	---	---	---	---	---	0.079	
0010	1198+05	STH 67	LT	---	---	---	---	1	---	---	10	---	---	2-JOINT TIES REQD. (INCIDENTAL TO CULVERT ITEM)
0010	1214+91	STH 67	LT & RT	---	---	---	---	1	---	---	8	---	---	4-JOINT TIES REQD. (INCIDENTAL TO CULVERT ITEM)
0010	1239+80	STH 67	LT	26	---	---	---	---	---	---	---	---	0.064	
0010	1264+75	STH 67	LT & RT	---	16	---	---	1	---	---	---	---	0.064	
0010	1265+48	STH 67	LT	---	---	---	---	---	---	20	---	---	0.064	
		TOTALS		**58**	**16**	**10**	**48**	**9**	**2**	**20**	**68**	**8**		

*-ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

STORM SEWER SUMMARY

CATEGORY	STATION	LOCATION			520.8000* CONCRETE COLLARS FOR PIPE EA	522.1036* APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 36-INCH EA	608.0336 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 36-INCH LF	611.2005 MANHOLES 5-FT DIAMETER EA	650.4000 CONSTRUCTION STAKING STORM SEWER EA	REMARKS
0010	1071+77	STH 67	26.0	LT	---	1	53	---	1	INVERT ELEVATION 1041.40, PIPE SLOPE 1.24%
0010	1072+31	STH 67	22.0	LT	---	---	479	1	1	INVERT ELEVATION 1040.74, PIPE SLOPE 0.69%
0010	1077+10	STH 67	22.0	LT	1	---	---	---	---	INVERT ELEVATION 1037.44 - FIELD VERIFY PRIOR TO INSTALLATION
			TOTALS		**1**	**1**	**532**	**1**	**2**	

*-ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ANCILLARY CONCRETE SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	416.0160 CONCRETE DRIVEWAY 6-INCH SY	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	601.0557 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D LF	601.0600 CONCRETE CURB PEDESTRIAN LF	602.0405 CONCRETE SIDEWALK 4-INCH SF	602.0515 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA SF	REMARKS
0010	1066+59	-	1067+02	STH 67, LT	---	---	45	---	---	---	DRIVEWAY CUT CURB
0010	1072+27	-	1077+16	STH 67, LT	160	490	---	---	---	---	SEE PLAN FOR LIMITS OF DRIVEWAY CUT CURB
0010	1077+30	-	1077+55	STH 67, RT	---	25	---	20	100	10	
0010	1077+30	-	1077+55	STH 67, LT	---	25	---	20	100	10	
0010	1176+70	-	1176+95	STH 67, LT	---	---	30	---	---	---	DRIVEWAY CUT CURB
				TOTALS	**160**	**540**	**75**	**40**	**200**	**20**	

GUARDRAIL SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	614.0305 STEEL PLATE BEAM GUARD CLASS A LF	614.0370 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL EA	614.0400 ADJUSTING STEEL PLATE BEAM GUARD LF	614.0950 REPLACING GUARDRAIL POSTS AND BLOCKS EACH	614.0951 REPLACING GUARDRAIL RAIL AND HARDWARE (CLASS A) LF	REMARKS
0010	1066+90	-	1067+53	STH 67, LT	12.5	1	---	---	---	
0010	1067+53	-	1071+65	STH 67, LT	---	---	125	34	50	
0010	1071+65	-	1072+28	STH 67, LT	12.5	1	---	---	---	
0010	1109+25	-	1109+75	STH 67, RT	---	1	---	---	---	
0010	1109+75	-	1114+96	STH 67, RT	---	---	250	34	---	
0010	1109+53	-	1110+03	STH 67, LT	---	1	---	---	---	
0010	1110+03	-	1114+75	STH 67 LT	---	---	363	27	---	
0010	1114+78	-	1116+91	STH 67, LT	162.5	1	---	---	---	
0010	1114+96	-	1115+71	STH 67, RT	25.0	1	---	---	---	
0010	1120+09	-	1121+72	STH 67, RT	112.5	1	---	---	---	
0010	1121+72	-	1127+00	STH 67, RT	---	---	250	24	---	
0010	1121+87	-	1122+74	STH 67, LT	37.5	1	---	---	---	
0010	1127+00	-	1128+75	STH 67, RT	125.0	1	---	---	---	
0010	1173+63	-	1174+38	STH 67, LT	25.0	1	---	---	---	
0010	1174+32	-	1174+82	STH 67, RT	---	1	---	---	---	
0010	1175+91	-	1176+16	STH 67, LT	---	---	25	4	---	
0010	1176+16	-	1176+66	STH 67, LT	---	1	---	---	---	
0010	1176+56	-	1176+81	STH 67, RT	---	---	25	2	---	
0010	1176+81	-	1177+31	STH 67, RT	---	1	---	---	---	
				TOTALS	**513**	**13**	**1,038**	**125**	**50**	

3

WATER

CATEGORY	LOCATION	624.0100 MGAL	REMARKS
0010	STH 67	15	FOR BASE AGGREGATE COMPACTION
	TOTAL	**15**	

EROSION CONTROL

CATEGORY		628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	REMARKS
0010	PROJECT	5	2	
	TOTALS	**5**	**2**	

FINISHING

CATEGORY	STATION	TO	STATION	LOCATION	625.0100 TOPSOIL SY	627.0200 MULCHING SY	628.2002 EROSION MAT CLASS I TYPE A SY	628.2004 EROSION MAT CLASS I TYPE B SY	628.2023 EROSION MAT CLASS II TYPE B SY	629.0205 FERTILIZER TYPE A CWT	630.0130 SEEDING MIXTURE NO. 30 LB	630.0140 SEEDING MIXTURE NO. 40 LB	REMARKS
0010	1005+25	-	1009+70	STH 67, LT	720	360	360	---	---	0.45	12.9	---	
0010	1010+50	-	1012+50	STH 67, RT	315	135	180	---	---	0.20	5.7	---	
0010	1015+50	-	1019+00	STH 67, RT	495	230	265	---	---	0.31	8.9	---	
0010	1020+50	-	1024+75	STH 67, RT	695	---	695	---	---	0.44	12.5	---	
0010	1021+25	-	1024+75	STH 67, LT	385	145	240	---	---	0.24	6.9	---	
0010	1028+75	-	1032+75	STH 67, LT	1,035	685	350	---	---	0.65	18.6	---	
0010	1034+50	-	1037+00	STH 67, LT	385	210	175	---	---	0.24	6.9	---	
0010	1046+75	-	1050+50	STH 67, RT	790	300	490	---	---	0.49	14.1	---	
0010	1054+25	-	1057+00	STH 67, LT	250	---	250	---	---	0.18	5.2	---	
0010	1064+00	-	1065+75	STH 67, LT	290	135	155	---	---	0.18	5.2	---	
0010	1066+00	-	1068+90	STH 67, RT	365	---	365	---	---	0.23	6.5	---	
0010	1066+60	-	1067+65	STH 67, LT	275	---	275	---	---	0.17	4.9	---	
0010	1071+60	-	1072+85	STH 67, LT	45	---	45	---	---	0.03	---	0.8	
0010	1074+20	-	1077+16	STH 67, LT	300	---	300	---	---	0.19	---	5.4	
0100	1077+30	-	1077+55	STH 67, RT & LT	20	---	20	---	---	0.02	---	0.3	
0010	1092+00	-	1092+25	STH 67, RT	30	---	30	---	---	0.02	0.5	---	
0010	1107+90	-	1109+90	STH 67, RT	395	---	345	50	---	0.25	7.1	---	
0010	1107+90	-	1110+12	STH 67, LT	455	---	455	---	---	0.28	8.1	---	
0010	1115+00	-	1116+89	STH 67, RT	385	---	---	385	---	0.24	6.9	---	
0010	1116+25	-	1118+05	STH 67, LT	400	---	30	370	---	0.25	7.1	---	
0010	1119+00	-	1120+60	STH 67, RT	225	---	10	215	---	0.14	4.0	---	
0010	1120+55	-	1122+40	STH 67, LT	55	---	55	---	---	0.05	1.3	---	
0010	1128+00	-	1130+00	STH 67, RT	230	---	230	---	---	0.14	4.1	---	
0010	1132+60	-	1132+70	STH 67, LT	20	---	20	---	---	0.01	0.4	---	
0010	1157+00	-	1158+00	STH 67, RT	225	---	145	80	---	0.14	4.0	---	
0010	1157+00	-	1158+00	STH 67, LT	235	---	140	95	---	0.15	4.2	---	
0010	1165+85	-	1165+95	STH 67, RT & LT	40	---	40	---	---	0.02	0.7	---	
0010	1169+75	-	1174+90	STH 67, RT	1,790	---	775	---	1015	0.13	32.2	---	
0010	1172+00	-	1174+50	STH 67, LT	110	---	110	---	---	0.07	1.9	---	
0010	1176+00	-	1176+96	STH 67, LT	170	---	170	---	---	0.10	3.0	---	
0010	1176+70	-	1178+50	STH 67, RT	105	---	105	---	---	0.07	1.9	---	
0010	1184+00	-	1185+00	STH 67, LT	150	---	150	---	---	0.09	2.7	---	
0010	1188+50	-	1189+50	STH 67, RT	175	---	175	---	---	0.11	3.1	---	
0010	1188+50	-	1189+50	STH 67, LT	110	---	110	---	---	0.07	2.0	---	
0010	1195+25	-	1198+10	STH 67, LT	370	---	370	---	---	0.23	6.7	---	
0010	1214+00	-	1215+50	STH 67, RT	245	---	245	---	---	0.15	4.3	---	
0010	1228+60	-	1229+50	STH 67, LT	100	---	100	---	---	0.06	1.8	---	
0010	1232+50	-	1232+75	STH 67, RT	20	---	20	---	---	0.01	0.3	---	
0010	1237+50	-	1241+75	STH 67, LT	950	340	610	---	---	0.60	17.0	---	
0010	1264+00	-	1265+50	STH 67, RT	225	---	225	---	---	0.14	4.0	---	
0010	1264+00	-	1265+50	STH 67, LT	240	---	240	---	---	0.12	3.5	---	
0010	1267+75	-	1270+50	STH 67, LT	785	550	235	---	---	0.49	14.0	---	
0010	1283+50	-	1290+50	STH 67, RT	1,930	---	1,930	---	---	1.21	34.7	---	
0010	1285+50	-	1290+50	STH 67, LT	935	---	935	---	---	0.59	16.8	---	
0010	UNDISTRIBUTED			STH 67	1,745	310	1,220	115	105	1.05	33.4	0.5	
				TOTALS	**19,215**	**3,400**	**13,390**	**1,310**	**1,120**	**11**	**340**	**7**	

EROSION CONTROL

CATEGORY	STATION	TO	STATION	LOCATION	606.0100 RIPRAP LIGHT CY	645.0120 GEOTEXTILE TYPE HR SY	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.7015 INLET PROTECTION TYPE C EA	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EA	628.7570 ROCK BAGS EA	REMARKS
0010	1005+25	-	1009+70	STH 67, LT	---	---	---	---	---	30	---		
0010	1010+50	-	1012+50	STH 67, RT	---	---	175	175	---	10	---	---	
0010	1015+50	-	1019+00	STH 67, RT	---	---	---	---	---	10	3	---	
0010	1020+50	-	1024+75	STH 67, RT	---	---	450	450	---	---	---	15	
0010	1021+25	-	1024+75	STH 67, LT	---	---	250	250	---	---	10	---	
0010	1028+75	-	1032+75	STH 67, LT	---	---	---	---	---	10	---	---	
0010	1034+50	-	1037+00	STH 67, LT	---	---	---	---	---	10	2	---	
0010	1046+75	-	1050+50	STH 67, RT	---	---	---	---	---	10	2	---	
0010	1054+25	-	1057+00	STH 67, LT	5	---	---	---	---	10	8	---	
0010	1064+00	-	1065+75	STH 67, LT	20	60	175	175	---	---	---	15	
0010	1066+00	-	1068+90	STH 67, RT	---	---	225	225	---	---	8	15	
0010	1066+60	-	1067+65	STH 67, LT	---	---	---	---	---	15	---	---	
0010	1071+60	-	1072+85	STH 67, LT	---	---	50	50	---	---	---	---	
0010	1074+20	-	1077+15	STH 67, LT	---	---	---	---	4	---	---	---	
0010	1077+30	-	1077+55	STH 67, LT & RT	---	---	70	70	---	---	---	---	
0010	1092+00	-	1092+25	STH 67, RT	---	---	---	---	---	---	8	---	
0010	1107+90	-	1109+90	STH 67, RT	---	---	260	260	---	---	---	15	
0010	1107+90	-	1110+12	STH 67, LT	---	---	200	200	---	---	10	---	
0010	1115+00	-	1116+89	STH 67, RT	15	---	---	---	---	30	---	---	
0010	1116+25	-	1118+05	STH 67, LT	---	---	---	---	---	10	---	---	
0010	1119+00	-	1120+60	STH 67, RT	---	---	---	---	---	10	---	---	
0010	1120+55	-	1122+40	STH 67, LT	5	---	---	---	---	10	---	---	
0010	1128+00	-	1130+00	STH 67, RT	---	---	225	225	---	---	---	15	
0010	1132+60	-	1132+70	STH 67, LT	---	---	---	---	---	10	---	---	
0010	1157+00	-	1158+00	STH 67, RT	---	---	---	---	---	---	8	---	
0010	1157+00	-	1158+00	STH 67, LT	---	---	165	165	---	---	---	15	
0010	1169+75	-	1174+90	STH 67, RT	---	---	---	---	---	15	2	---	
0010	1172+00	-	1174+50	STH 67, LT	---	---	90	90	---	---	---	15	
0010	1176+00	-	1176+96	STH 67, LT	---	---	105	105	---	---	---	15	
0010	1176+70	-	1178+50	STH 67, RT	---	---	205	205	---	---	---	15	
0010	1188+50	-	1189+50	STH 67, RT	---	---	120	120	---	---	---	15	
0010	1188+50	-	1189+50	STH 67, LT	---	---	---	---	---	---	10	---	
0010	1195+25	-	1198+10	STH 67, LT	---	---	---	---	---	---	10	---	
0010	1214+00	-	1215+50	STH 67, RT	---	---	---	---	---	---	5	---	
0010	1237+50	-	1241+75	STH 67, LT	---	---	210	210	---	---	2	---	
0010	1264+00	-	1265+50	STH 67, RT	---	---	180	180	---	---	---	15	
0010	1264+00	-	1265+50	STH 67, LT	---	---	---	---	---	---	3	---	
0010	1267+75	-	1270+50	STH 67, LT	---	---	260	260	---	---	10	---	
0010	1283+50	-	1290+50	STH 67, RT	---	---	750	750	---	---	---	15	
0010	1285+50	-	1290+50	STH 67, LT	---	---	310	310	---	---	8	---	
0010	UNDISTRIBUTED			STH 67	---	---	450	450	---	20	11	20	
				TOTALS	**45**	**60**	**4,925**	**4,925**	**4**	**210**	**120**	**200**	

ERECTION & REMOVAL OF PERMANENT SIGNING, TYPE II

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE TYPE H S.F.	637.2230 SIGNS TYPE II REFLECTIVE TYPE F S.F.	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
1	GOLDEN CORNERS RD	R1-1	30" X 30"	5.18	---	1	---	1	1	
2	STH 67, N. OF GOLDEN CORNERS RD	I2-2	54" X 15"	5.63	---	2	---	1	2	SEE SIGN DETAILS
3	"	I2-2	84" X 15"	8.75	---	2	---	1	2	SEE SIGN DETAILS
4	"	I55-56	30" X 36"	7.50	---	---	1	1	1	SEE PLAN SHEET
5	"	I55-56	30" X 36"	7.50	---	---	1	1	1	SEE PLAN SHEET
6	"	W14-3	48" X 36"	---	5.56	---	1	1	1	
7	ARROW LN	R1-1	30" X 30"	5.18	---	1	---	1	1	
8	STH 67, N. OF ARROW LN	W14-3	48" X 36"	---	5.56	---	1	1	1	
9	"	W5-52L	12" X 36"	---	3.00	1	---	1	1	
10	"	W5-52R	12" X 36"	---	3.00	1	---	1	1	
11	"	W5-52L	12" X 36"	---	3.00	1	---	1	1	
12	"	W5-52R	12" X 36"	---	3.00	1	---	1	1	
13	ASHLAND DR	R1-1	30" X 30"	5.18	---	1	---	1	1	
14	STH 67, N. OF ASHLAND DR	W54-57	30" X 30"	---	6.25	1	---	1	1	
15	PLEASANT HILL DR	R1-1	30" X 30"	5.18	---	1	---	1	1	
16	STH 67, N. OF PLEASANT HILL DR	W14-3	48" X 36"	---	5.56	---	1	1	1	
16A	"	W3-5	36" X 36"	---	9.00	---	---	---	---	40 MPH; MOUNT TO BACK OF SIGN 16
17	"	W3-5	---	---	---	---	---	1	1	
18	"	W14-3	48" X 36"	---	5.56	---	1	1	1	
19	"	I2-3	54" X 24"	9.00	---	2	---	1	2	SEE SIGN DETAILS
20	"	J4-1	24" X 36"	6.00	---	---	1	1	1	SEE PLAN SHEET
21	"	R2-1	24" X 30"	5.00	---	1	---	1	1	40 MPH
22	"	R2-1	24" X 30"	5.00	---	1	---	1	1	55 MPH
23	SUPER DR	R1-1	30" X 30"	5.18	---	1	---	1	1	
24	STH 67, N. OF SUPER DR	W5-52L	12" X 36"	---	3.00	1	---	1	1	
25	MINNIE LN	R1-1	30" X 30"	5.18	---	1	---	1	1	
26	STH 67, N. OF MINNIE LN	W5-52R	12" X 36"	---	3.00	1	---	1	1	
27	"	R2-1	24" X 30"	5.00	---	1	---	1	1	40 MPH
28	"	R2-1	24" X 30"	5.00	---	1	---	1	1	40 MPH
29	"	R2-1	24" X 30"	5.00	---	1	---	1	1	40 MPH
30	"	R2-1	24" X 30"	5.00	---	1	---	1	1	40 MPH
31	"	R2-1	24" X 30"	5.00	---	1	---	1	1	40 MPH
32	"	R2-1	24" X 30"	5.00	---	1	---	1	1	40 MPH
33	DRUMLINE DR	R1-1	30" X 30"	5.18	---	1	---	1	1	
34	STH 67, N. OF DRUMLINE DR	J4-1	24" X 36"	6.00	---	---	1	1	1	SEE PLAN SHEET
35	"	I2-3	54" X 24"	9.00	---	2	---	1	2	SEE SIGN DETAILS
	PAGE SUBTOTALS			135.64	55.49	30	8	35	39	

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ERECTION & REMOVAL OF PERMANENT SIGNING, TYPE II

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE TYPE H S.F.	637.2230 SIGNS TYPE II REFLECTIVE TYPE F S.F.	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
36	STH 67, N. OF DRUMLINE DR	J13-1	24" X 45"	7.50	---	---	1	1	1	RUSTIC ROAD; SEE PLAN SHEET
37	"	R2-1	24" X 30"	5.00	---	1	---	1	1	40 MPH
38	"	R2-1	24" X 30"	5.00	---	1	---	1	1	55 MPH
39	WILLOW LN	R1-1	30" X 30"	5.18	---	1	---	1	1	
40	KATZENBURG DR	R1-1	30" X 30"	5.18	---	1	---	1	1	
41	"	J1-1	24" X 39"	6.50	---	---	1	1	1	RUSTIC ROAD; SEE PLAN SHEET
42	STH 67, N. OF WILLOW LN	W14-3	48" X 36"	---	5.56	---	1	1	1	
43	"	W3-5	36" X 36"	---	9.00	---	---	---	---	40 MPH; MOUNT TO BACK OF SIGN 42
44	"	W14-3	48" X 36"	---	5.56	---	1	1	1	
45	"	W5-52R	12" X 36"	---	3.00	1	---	1	1	
46	"	W5-52L	12" X 36"	---	3.00	1	---	1	1	
47	"	W3-5	---	---	---	---	---	1	1	
48	"	W5-52R	12" X 36"	---	3.00	1	---	1	1	
49	"	W5-52L	12" X 36"	---	3.00	1	---	1	1	
50	"	J13-1	24" X 45"	7.50	---	---	1	1	1	RUSTIC ROAD; SEE PLAN SHEET
51	"	W5-52R	12" X 36"	---	3.00	1	---	1	1	
52	"	W5-52L	12" X 36"	---	3.00	1	---	1	1	
53	STH 67, S. OF MEMORIAL DR	W5-52R	12" X 36"	---	3.00	1	---	1	1	
54	"	W5-52L	12" X 36"	---	3.00	1	---	1	1	
55	"	I55-56	30" X 36"	7.50	---	---	1	1	1	SEE PLAN SHEET
56	MEMORIAL DR	R1-1	30" X 30"	5.18	---	1	---	1	1	
57	STH 67, N. OF MEMORIAL DR	I55-56	30" X 36"	7.50	---	---	1	1	1	SEE PLAN SHEET
58	"	W11-5	30" X 30"	---	6.25	1	---	1	1	
59	OLD 67 RD	R1-1	30" X 30"	5.18	---	1	---	1	1	
60	STH 67, N. OF OLD 67 RD	W5-52L	12" X 36"	---	3.00	1	---	1	1	
61	"	W5-52R	12" X 36"	---	3.00	1	---	1	1	
62	"	J4-1	---	---	---	---	---	1	1	
63	"	J13-1	24" X 45"	7.50	---	---	1	1	1	RUSTIC ROAD; SEE PLAN SHEET
64	ROLLING DR	R1-1	30" X 30"	5.18	---	1	---	1	1	
65	"	J1-1	24" X 39"	6.50	---	---	1	---	---	RUSTIC ROAD; SEE PLAN SHEET
66	STH 67, N. OF ROLLING DR	J13-1	24" X 45"	7.50	---	---	1	1	1	RUSTIC ROAD; SEE PLAN SHEET
67	"	W5-52R	12" X 36"	---	3.00	1	---	1	1	
68	"	W5-52L	12" X 36"	---	3.00	1	---	1	1	
69	"	W5-52R	12" X 36"	---	3.00	1	---	1	1	
70	"	W5-52L	12" X 36"	---	3.00	1	---	1	1	
	PAGE SUBTOTALS			93.90	68.37	22	10	33	33	

ERECTION & REMOVAL OF PERMANENT SIGNING, TYPE II

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE TYPE H S.F.	637.2230 SIGNS TYPE II REFLECTIVE TYPE F S.F.	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
71	ROLLING DR	R1-1	30" X 30"	5.18	---	1	---	1	1	
72	STH 67, N. OF ROLLING DR	W1-2R	30" X 30"	---	6.25	1	---	1	1	
73	"	W1-6	48" X 24"	---	8.00	1	---	1	1	
74	CANARY LN	R1-1	30" X 30"	5.18	---	1	---	1	1	
75	"	R1-1	30" X 30"	5.18	---	1	---	1	1	
76	STH 67, N. OF CANARY LN	W1-6	48" X 24"	---	8.00	1	---	---	---	
77	"	W1-2L	30" X 30"	---	6.25	1	---	1	1	
78	"	W11-4	30" X 30"	---	6.25	1	---	1	1	
79	"	W11-5	30" X 30"	---	6.25	1	---	1	1	
80	"	W1-2R	---	---	---	---	---	1	1	
81	"	J13-1	---	---	---	---	---	1	1	
82	"	J13-1	24" X 45"	7.50	---	---	1	---	---	RUSTIC ROAD; SEE PLAN SHEET
83	"	W1-6	48" X 24"	---	8.00	1	---	1	1	
84	"	W1-7	48" X 24"	---	8.00	1	---	1	1	
85	RIVER DR	R1-1	30" X 30"	5.18	---	1	---	1	1	
86	"	J1-1	24" X 39"	6.50	---	---	1	---	---	RUSTIC ROAD; SEE PLAN SHEET
87	STH 67, N. OF RIVER DR	W1-2L	30" X 30"	---	6.25	1	---	1	1	
88	STH 67, S. OF BEECHNUT DR	J13-1	24" X 45"	7.50	---	---	1	---	---	RUSTIC ROAD; SEE PLAN SHEET
89	"	W14-3	48" X 36"	---	5.56	---	1	1	1	
90	"	W14-3	48" X 36"	---	5.56	---	1	1	1	
91	"	S3-1	36" X 36"	---	9.00	---	1	1	1	
92	"	W11-5	30" X 30"	---	6.25	1	---	1	1	
93	"	W3-5	36" X 36"	---	9.00	---	1	1	1	45 MPH
94	"	W5-52R	12" X 36"	---	3.00	1	---	1	1	
95	"	W5-52L	12" X 36"	---	3.00	1	---	1	1	
96	"	R2-1	24" X 30"	5.00	---	1	---	1	1	55 MPH
97	BEECHNUT DR	W5-52R	12" X 36"	---	3.00	1	---	1	1	
98	"	R1-1	30" X 30"	5.18	---	1	---	1	1	
99	"	W5-52L	12" X 36"	---	3.00	1	---	1	1	
100	STH 67, N. OF BEECHNUT DR	W5-52R	12" X 36"	---	3.00	1	---	1	1	
101	"	R2-1	24" X 30"	5.00	---	1	---	1	1	45 MPH
102	"	W5-52L	12" X 36"	---	3.00	1	---	1	1	
103	"	I55-56	30" X 36"	7.50	---	---	1	1	1	SEE PLAN SHEET
104	"	W5-52L	12" X 36"	---	3.00	1	---	1	1	
105	"	W5-52R	12" X 36"	---	3.00	1	---	1	1	
106	"	R2-1	24" X 30"	5.00	---	1	---	1	1	45 MPH
107	"	R2-1	24" X 30"	5.00	---	1	---	1	1	45 MPH
	PAGE SUBTOTALS			74.90	122.62	27	8	33	33	
	PROJECT TOTALS			**304.44**	**246.48**	**79**	**26**	**101**	**105**	

MARKERS CULVERT END

CATEGORY	STATION	LOCATION	633.5200 EACH	REMARKS
0010	1012+73	STH 67, LT & RT	2	
0010	1022+05	STH 67, LT & RT	2	
0010	1039+24	STH 67, LT & RT	2	
0010	1047+17	STH 67, LT & RT	2	
0010	1068+75	STH 67, LT & RT	2	
0010	1071+77	STH 67, LT	1	
0010	1077+17	STH 67, LT & RT	2	
0010	1092+12	STH 67, LT & RT	2	
0010	1105+58	STH 67, LT	1	
0010	1106+18	STH 67, LT & RT	2	
0010	1108+26	STH 67, LT & RT	2	
0010	1132+60	STH 67, LT & RT	2	
0010	1142+77	STH 67, LT & RT	2	
0010	1157+38	STH 67, LT & RT	2	
0010	1188+97	STH 67, LT & RT	4	
0010	1196+33	STH 67, LT & RT	2	
0010	1214+91	STH 67, LT & RT	2	
0010	1238+46	STH 67, LT & RT	2	
0010	1243+66	STH 67, LT & RT	2	
0010	1257+70	STH 67, LT & RT	2	
0010	1264+75	STH 67, LT & RT	2	
0010	1286+50	STH 67, LT & RT	2	
		TOTAL	**44**	

TRAFFIC CONTROL SUMMARY

CAT	LOCATION	APPROX. SERVICE DAYS	643.0300 TRAFFIC CONTROL DRUMS NO IN SERVICE	643.0300 TRAFFIC CONTROL DRUMS DAYS	643.0410 TRAFFIC CONTROL BARRICADES TYPE II NO IN SERVICE	643.0410 TRAFFIC CONTROL BARRICADES TYPE II DAYS	643.0900 TRAFFIC CONTROL SIGNS NO IN SERVICE	643.0900 TRAFFIC CONTROL SIGNS DAYS	643.1050 TRAFFIC CONTROL SIGNS PCMS NO IN SERVICE	643.1050 TRAFFIC CONTROL SIGNS PCMS DAYS
0010	STH 67 ADVANCED WARNING	75	---	---	---	---	10	750	2	14
0010	SIDEROAD ADVANCED WARNING	75	---	---	---	---	34	2550	---	---
0010	CURB & GUTTER AND SIDEWALK REMOVAL/REPLACEMENT	15	70	1050	4	60	4	60	---	---
0010	SHOULDER CLOSURES AT GUARDRAIL & BOX CULVERTS	25	100	2500	---	---	20	500	---	---
0010	UNDISTRIBUTED	20	20	400	---	---	5	100	---	---
	TOTALS			3,950		60		3,960		14

NOTE: INSTALL TRAFFIC CONTROL SIGNS PCMS NEAR THE PROJECT LIMITS FOR 7 DAYS IN ADVANCE OF CONSTRUCTION OPERATIONS TO NOTIFY THE TRAVELING PUBLIC

3

TEMPORARY PORTABLE RUMBLE STRIPS

CATEGORY	LOCATION	643.0310.S LS	REMARKS
0010	PROJECT	1	
	TOTAL	**1**	

LOCATING NO PASSING ZONES

CATEGORY	STATION	TO	STATION	LOCATION	648.0100 MI	REMARKS
0010	999+10	-	1298+00	STH 67	5.66	
				TOTAL	**5.66**	

PAVEMENT MARKING SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	646.1020 MARKING LINE EPOXY 4-INCH (YELLOW) LF	646.1040 MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE) LF	646.3040 MARKING LINE GROOVED WET REF EPOXY 8-INCH (WHITE) LF	649.0105 TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW) LF	649.0105 TEMPORARY MARKING LINE PAINT 4-INCH (WHITE) LF	649.0120 TEMPORARY MARKING LINE EPOXY 4-INCH (YELLOW) LF	REMARKS
0010	999+10	-	1006+49	STH 67	1,480	1,355	---	4,435	1,355	1,480	
0010	1006+49	-	1017+05	STH 67	1,320	2,115	---	3,420	2,115	1,320	
0010	1017+05	-	1021+28	STH 67	105	800	---	100	800	105	
0010	1021+28	-	1031+84	STH 67	1,320	2,055	100	3,420	2,055	1,320	8-INCH PAVEMENT MARKING AT STA. 1026+05 TO STA. 1027+05
0010	1031+84	-	1046+09	STH 67	2,850	2,850	---	8,555	2,850	2,850	
0010	1046+09	-	1056+65	STH 67	1,320	1,990	---	3,420	1,990	1,320	
0010	1056+65	-	1060+35	STH 67	95	740	---	90	740	95	
0010	1060+35	-	1066+16	STH 67	725	1,165	---	1,880	1,165	725	
0010	1066+16	-	1096+25	STH 67	6,020	3,035	---	18,060	3,035	6,020	
0010	1096+25	-	1117+90	STH 67	2,705	4,155	---	7,015	4,155	2,705	
0010	1117+90	-	1246+21	STH 67	25,660	24,950	---	76,985	24,950	25,660	
0010	1246+21	-	1257+29	STH 67	1,385	2,085	---	3,595	2,085	1,385	
0010	1257+29	-	1264+16	STH 67	170	1,375	---	165	1,375	170	
0010	1264+16	-	1275+25	STH 67	1,390	2,220	---	3,595	2,220	1,390	
0010	1275+25	-	1298+00	STH 67	4,550	4,460	---	13,650	4,460	4,550	
				SUBTOTALS	**51,095**	**55,350**	**100**	**203,735**		**51,095**	

3

CONSTRUCTION STAKING SUMMARY

CATEGORY	LOCATION					650.6000 PIPE CULVERTS EA	650.8000 RESURFACING REFERENCE LF	650.9910 SUPPLEMENTAL CONTROL LS	650.9920 SLOPE STAKES LF	REMARKS
0010	STH 67					---	29,807	1	---	
0010	1005+25	-	1009+70	STH 67,	LT	---	---	---	445	
0010	1010+50	-	1012+50	STH 67,	RT	---	---	---	200	
0010	1015+50	-	1019+00	STH 67,	RT	---	---	---	350	
0010	1020+50	-	1024+75	STH 67,	RT	---	---	---	425	
0010	1021+25	-	1024+75	STH 67,	LT	---	---	---	350	
0010	1028+75	-	1032+75	STH 67,	LT	---	---	---	400	
0010	1034+50	-	1037+00	STH 67,	LT	---	---	---	250	
0010	1046+75	-	1050+50	STH 67,	RT	---	---	---	375	
0010	1054+25	-	1057+00	STH 67,	LT	---	---	---	275	
0010	1064+00	-	1065+75	STH 67,	LT	---	---	---	175	
0010	1066+00	-	1068+90	STH 67,	RT	---	---	---	290	
0010	1066+60	-	1067+65	STH 67,	LT	---	---	---	105	
0010	1071+60	-	1072+85	STH 67,	LT	---	---	---	125	
0010	1074+20	-	1077+15	STH 67,	LT	---	---	---	295	
0010	1107+90	-	1109+90	STH 67,	RT	---	---	---	200	
0010	1107+90	-	1110+12	STH 67,	LT	---	---	---	222	
0010	1115+00	-	1116+89	STH 67,	RT	---	---	---	189	
0010	1116+25	-	1118+05	STH 67,	LT	---	---	---	180	
0010	1119+00	-	1120+60	STH 67,	RT	---	---	---	160	
0010	1120+55	-	1122+40	STH 67,	LT	---	---	---	185	
0010	1128+00	-	1130+00	STH 67,	RT	---	---	---	200	
0010	1157+00	-	1158+00	STH 67,	RT	---	---	---	100	
0010	1157+00	-	1158+00	STH 67,	LT	---	---	---	100	
0010	1165+90			STH 67,	LT & RT	1	---	---	---	
0010	1169+75	-	1174+90	STH 67,	RT	---	---	---	515	
0010	1172+00	-	1174+50	STH 67,	LT	---	---	---	250	
0010	1176+00	-	1176+96	STH 67,	LT	---	---	---	96	
0010	1176+70	-	1178+50	STH 67,	RT	---	---	---	180	
0010	1184+00	-	1185+00	STH 67,	LT	---	---	---	100	
0010	1188+50	-	1189+50	STH 67,	RT	---	---	---	100	
0010	1188+50	-	1189+50	STH 67,	LT	---	---	---	100	
0010	1195+25	-	1198+10	STH 67,	LT	---	---	---	285	
0010	1214+00	-	1215+50	STH 67,	RT	---	---	---	150	
0010	1228+60	-	1229+50	STH 67,	LT	---	---	---	90	
0010	1232+50	-	1232+75	STH 67,	RT	---	---	---	25	
0010	1237+50	-	1241+75	STH 67,	LT	---	---	---	425	
0010	1264+00	-	1265+50	STH 67,	RT	---	---	---	150	
0010	1264+00	-	1265+50	STH 67,	LT	---	---	---	150	
0010	1267+75	-	1270+50	STH 67,	LT	---	---	---	275	
0010	1283+50	-	1290+50	STH 67,	RT	---	---	---	700	
0010	1285+50	-	1290+50	STH 67,	LT	---	---	---	500	
				TOTALS		**1**	**29,807**	**1**	**9,687**	

NOTE: ADDITIONAL CONSTRUCTION STAKING ITEMS SHOWN ELSEWHERE IN PLAN

SAWING SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	690.0150 ASPHALT LF	690.0250 CONCRETE LF	REMARKS
0010	1021+49	-	1028+48	STH 67, RT	100	---	REMOVAL OF EXCESS SHOULDER PAVEMENT AT RETAINING WALL
0010	1021+69	-	1022+52	STH 67, LT	85	---	REMOVAL OF EXCESS SHOULDER PAVEMENT AT RETAINING WALL
0010	1066+59	-	1067+02	STH 67, LT	50	3	SUPER DRIVE RADIUS
0010	1072+14	-	1077+16	STH 67, LT	505	119	STORM REPLACEMENT
0010	1077+30	-	1077+55	STH 67, RT	30	15	CURB RAMP CONSTRUCTION
0010	1077+30	-	1077+55	STH 67, LT	30	10	CURB RAMP CONSTRUCTION
0010	1157+04	-	1157+59	STH 67, LT	55	---	REMOVAL OF EXCESS SHOULDER PAVEMENT AT RETAINING WALL
0010	1165+85	-	1165+95	STH 67	60	---	CULVERT REPLACEMENT
0010	1176+70	-	1176+96	STH 67, LT	40	3	ROLLING DRIVE RADIUS
0010	1283+76	-	1289+89	STH 67, RT	615	---	REMOVAL OF EXCESS SHOULDER PAVEMENT AT RETAINING WALL
0010	1286+12	-	1286+99	STH 67, LT	90	---	REMOVAL OF EXCESS SHOULDER PAVEMENT AT RETAINING WALL
0010	999+10	-	1298+00	STH 67	165	---	OPTIONAL SAW CUTS FOR MAINLINE BUTT JOINTS
0010	999+10	-	1298+00	SIDEROADS	405	---	OPTIONAL SAW CUTS FOR SIDEROAD BUTT JOINTS
				TOTALS	**2230**	**150**	

SALVAGE AND RESET FENCE

CATEGORY	STATION	TO	STATION	LOCATION	SPV.0090.01 LF	REMARKS
0010	1021+98	-	1022+10	STH 67, LT	30	
0010	1022+02	-	1022+28	STH 67, RT	40	
0010	1108+21	-	1108+22	STH 67, RT	35	
0010	1108+31	-	1108+95	STH 67, RT	65	
0010	1109+50	-	1110+00	STH 67, RT	55	
0010	1114+87	-	1115+77	STH 67, RT	95	
0010	1237+40	-	1238+92	STH 67, LT	155	
				SUBTOTAL	**475**	

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
TRANSPORTATION PROJECT PLAT TITLE SHEET
PROJ NO. 4090-07-21
WCL-CAMPBELLSPORT
WCL-BAUMANN STREET
STH 67
FOND DU LAC COUNTY



FOND DU LAC COUNTY



PROJECT LOCATION

CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W LINE
PROPERTY LINE
LOT, TIE & OTHER MINOR LINES
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC) — W (TYPE)
FEE ACQUISITION AREA (HATCHING VARIES BY OWNER)
TEMPORARY LIMITED EASEMENT AREA
EASEMENT AREA (HIGHWAY, PERMANENT LIMITED, OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING
NATIONAL GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT

SECTION CORNER
NOTATION FOR COMBUSTABLE FLUIDS — CAUTION
NOTATION FOR HIGH VOLTAGE TRANSMISSION LINES — CAUTION

	COMPENSABLE	NON-COMPENSABLE
ELECTRIC POLE	■	⌀
TELEPHONE POLE	⌀	⌀
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)	⌀	⌀

ACCESS RESTRICTED (BY ACQUISITION)
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)

BRIDGE

R/W MONUMENT ●
NON-MONUMENTED R/W POINT ○
FOUND IRON PIN IP
VALVE (GAS, WATER, ETC.) ⊘ (TYPE)
SIGN ▷ SIGN
OFF-PREMISE SIGN — I-25 — SIGN

PARCEL NUMBER 25
UTILITY NUMBER 201

CONVENTIONAL ABBREVIATIONS

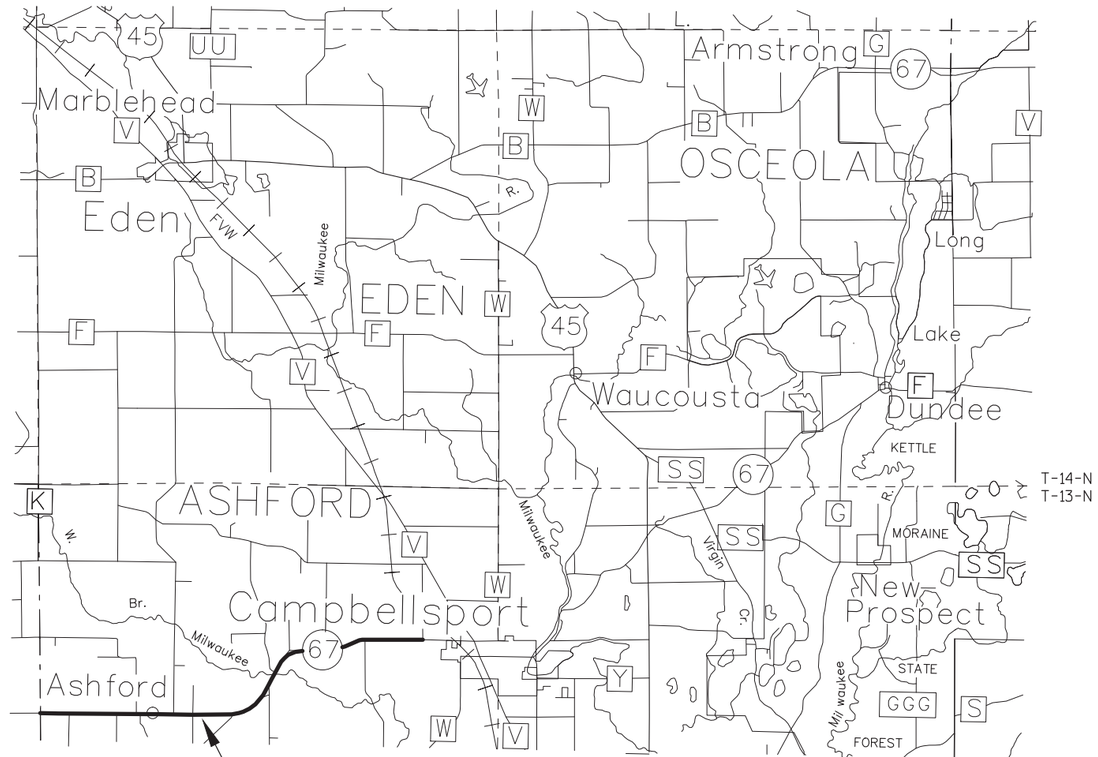
ACCESS RIGHTS	AR	POINT OF COMPOUND CURVE	PCC
ACRES	AC	POINT OF INTERSECTION	PI
AHEAD	AH	PROPERTY LINE	PL
ALUMINUM	ALUM	RECORDED AS	(100')
AND OTHERS	ET AL	REFERENCE LINE	R/L
BACK	BK	REMAINING	REM
BLOCK	BLK	RIGHT	RT
CENTERLINE	C/L	RIGHT OF WAY	R/W
CERTIFIED SURVEY MAP	CSM	SECTION	SEC
CONCRETE	CONC	SEPTIC VENT	SEPV
COUNTY	CO	SQUARE FEET	SF
COUNTY TRUNK HIGHWAY	CTH	STATE TRUNK HIGHWAY	STH
DISTANCE	DIST	STATION	STA
CORNER	COR	SUBDIVISION	SUBD
DOCUMENT NUMBER	DOC	TANGENT	TAN
EASEMENT	EASE	TELEPHONE PEDESTAL	TP
EXISTING	EX	TEMPORARY LIMITED EASEMENT	TLE
GAS VALVE	GV	TRANSPORTATION PROJECT PLAT	TPP
GRID NORTH	GN	UNITED STATES HIGHWAY	USH
HIGHWAY EASEMENT	HE	VOLUME	V
IDENTIFICATION	ID		
LAND CONTRACT	LC		
LEFT	LT		
MONUMENT	MON		
NATIONAL GEODETIC SURVEY	NGS		
NUMBER	NO		
OUTLOT	OL		
PAGE	P		
POINT OF TANGENCY	PT		
PERMANENT LIMITED EASEMENT	PLE		
POINT OF BEGINNING	POB		
POINT OF CURVATURE	PC		

CURVE DATA

LONG CHORD	LC
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	Δ
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB

CONVENTIONAL UTILITY SYMBOLS

WATER —W—
GAS —G—
TELEPHONE —T—
OVERHEAD TRANSMISSION LINES —OH—
ELECTRIC —E—
CABLE TELEVISION —TV—
FIBER OPTIC —FO—
SANITARY SEWER —SAN—
STORM SEWER —SS—



R-17-E R-18-E

PROJECT LOCATION

LAYOUT
SCALE 0 1 MI.

GN

THE NOTES,CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR PROJECT 4090-07-21

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), FOND DU LAC COUNTY, NAD83(2007), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 1" X 24" IRON PIPE WITH DOT CAP), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OR FROM CENTERLINE OF EXISTING PAVEMENTS.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLEs) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHTS TO MAKE OR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

A HIGHWAY EASEMENT (HE) IS AN EASEMENT FOR HIGHWAY PURPOSES (HE), AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN GREEN BAY, WISCONSIN.

PARCEL IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE SCHEDULE OF LANDS & INTERESTS REQUIRED.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 4090-07-21- 4.01
SHEET 2 OF 2
AMENDMENT NO:

FILE NAME : \\CORP.MEADHUNT.COM\SHAREDFOLDERS\ENTP\3230500\113975.01\TECH\CAD\RW\040101_TI - TPP 4090-07-21.DWG
APPRAISAL PLAT DATE :
PLOT DATE : 6/20/2017 4:22 PM
PLOT BY : WILLIAM KOTTLER PLOT NAME : ----------

OWNER'S NAMES ARE SHOWN FOR REFERENCE ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

SCHEDULE OF LANDS & INTERESTS REQUIRED						
PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW SF	R/W EXISTING SF	R/W TOTAL SF	TLE SF
1	BOLENDER REVOCABLE TRUST, TRUSTEES JOSEPH L. BONLENDER AND CHRISTINE A. BONLENDER	TLE	0	0	0	2976
2	DAVID E. KEDINGER, (LE)	FEE	1375	5269	6644	0
3	JAMES A. BUERGER	FEE & TLE	1854	5404	7258	1400
4	PATRICK SCHMIDT AND MARY P. SCHMIDT	FEE & TLE	1322	2874	4196	2190

NOTES:
EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: DOCUMENTS V. 247, P. 535, V. 247, P. 547, V. 247, P. 536, V. 247, P. 554 AND V. 247, P. 528, FOR PROJECT U.S. PUBLIC WORKS PROJECT NO. N.R.S. 525 B (1935) AND CSM 6837.
EXISTING SIDE ROAD RIGHT-OF-WAYS SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: CSM 6837.

TRANSPORTATION PROJECT PLAT NO: 4090-07-21 - 4.01

PART OF THE SW 1/4 OF THE SW 1/4, SECTION 18, AND PART OF LOT 1, CSM 6837, AND PARTS OF THE NW 1/4 OF THE NW 1/4 AND NE 1/4 OF THE NW 1/4, SECTION 19, TOWNSHIP 13 NORTH, RANGE 18 EAST, TOWN OF ASHFORD, FOND DU LAC COUNTY, WISCONSIN.

RELOCATION ORDER STH 67 FOND DU LAC COUNTY
WCL-CAMPBELLSPORT

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 NAMED PROJECT.

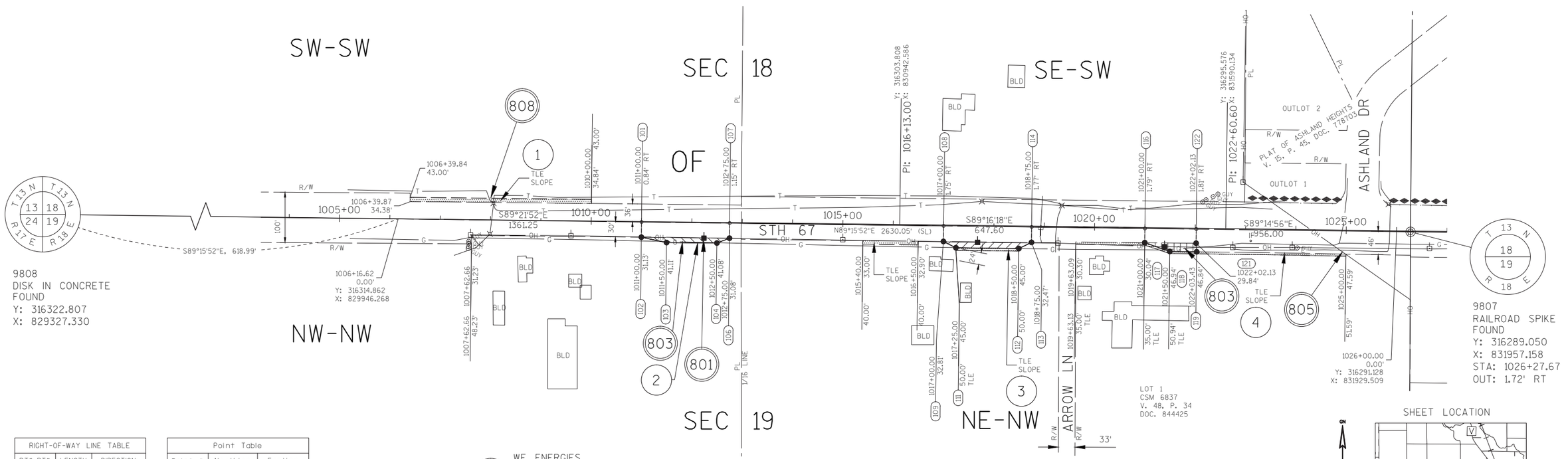
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

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 NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

DOC# 1086854
Recorded
July 17, 2017 9:28 AM
JAMES M KREBS
REGISTER OF DEEDS
FOND DU LAC COUNTY
Fee Amount: $25.00

Recorded this 17th day of July, 2017 at 9:28 AM in VOL. 19 Pg. 2 Doc # 1086854
James M. Krebs
Register of Deeds, Fond du Lac County, WI

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 4090-07-21 - 4.01
SHEET 1 OF 2
AMENDMENT NO:___



RIGHT-OF-WAY LINE TABLE		
PT*-PT*	LENGTH	DIRECTION
9808-101	1102.37	S89°15'52"E
101-102	30.29	S0°38'08"W
102-103	50.99	S78°04'16"E
103-104	100.00	S89°22'54"E
104-106	26.93	N68°49'10"E
106-107	29.93	N0°38'08"E
107-108	425.00	S89°15'52"E
108-109	31.06	S0°43'42"W
109-111	27.82	S63°16'14"E
111-112	125.00	S89°16'18"E
112-113	27.96	N64°06'30"E
113-114	30.70	N0°43'42"E
114-116	225.00	S89°15'52"E
116-117	28.24	S0°43'42"W
117-118	52.78	S70°35'24"E
118-119	53.43	S89°22'54"E
119-121	17.05	N3°40'20"W
121-122	28.03	N0°43'42"E
122-101	1102.12	N89°15'52"W

Point Table		
Point *	Northing	Easting
9808	316322.807	829327.330
101	316308.658	830429.613
102	316278.373	830429.277
103	316267.834	830479.163
104	316266.754	830579.157
106	316276.484	830604.267
107	316306.412	830604.599
108	316300.957	831029.562
109	316269.898	831029.167
111	316257.388	831054.010
112	316255.799	831179.000
113	316268.010	831204.157
114	316298.711	831204.547
116	316295.823	831429.529
117	316267.584	831429.170
118	316250.043	831478.951
119	316249.467	831532.382
121	316266.481	831531.290
122	316294.512	831531.646

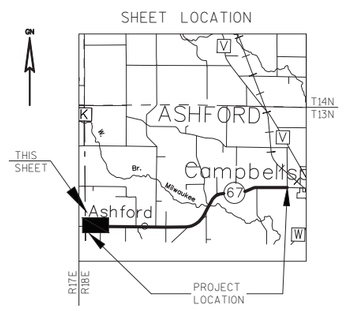
801 WE ENERGIES
PARCELS 2, 3 & 4
PRESCRIPTIVE

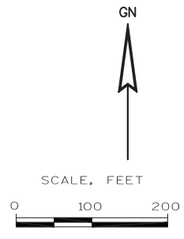
803 ALLIANT ENERGY (GAS)
PARCELS 2, 3 & 4
DOC. 1039419

805 ATC MANAGEMENT, INC.
PARCEL 4
DOC. 592467
DOC. 705436

808 FRONTIER COMMUNICATIONS OF WI, LLC
PARCEL 1
DOC. 358589

UTILITY SCHEDULE OF INTERESTS REQUIRED		
UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
801	WE ENERGIES (ELEC)	RELEASE OF RIGHTS
803	ALLIANT ENERGY (GAS)	RELEASE OF RIGHTS
805	ATC MANAGEMENT, INC.	RELEASE OF RIGHTS
808	FRONTIER COMMUNICATIONS OF WI, LLC	RELEASE OF RIGHTS





REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 IN THIS DOCUMENT, FOR ADDITIONAL INFORMATION.

Mead & Hunt, Inc.
1345B North Road
Green Bay, WI 54313-5723
920.496.0500
fax:920.496.0576
www.meadhunt.com

I, WILLIAM F. KOTTLER, PROFESSIONAL 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 WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 4090-07-21-4.01 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN WILLIAM F. KOTTLER S-2348 MIDDLETON, WI LAND SURVEYOR

DATE 07-06-2017
WILLIAM F. KOTTLER,
PLS 2348

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
(SIGNATURE) _____ DATE 07-06-2017
(PRINTED NAME) CURT VAN EREM

FILE NAME : \\CORP.MEADHUNT.COM\SHAREDFOLDERS\ENTP\3230500\113975.01\TECH\CAD\RW\040101_RP- TPP 4090-07-21.DWG PLOT DATE : 7/6/2017 11:13 AM PLOT BY : WILLIAM KOTTLER PLOT NAME : PLOT SCALE : 1:100
APPRAISAL PLAT DATE : _____

OWNER'S NAMES ARE SHOWN FOR REFERENCE ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

SCHEDULE OF LANDS & INTERESTS REQUIRED						
PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW SF	R/W EXISTING SF	R/W TOTAL SF	TLE SF
6	H & O BATZLER FAMILY, LLC, (LE)	FEE	2487	0	2487	0
8	JOHN B. BUERGER	TLE	0	0	0	2256
9	JOHN B. BUERGER	TLE	0	0	0	304

NOTES:
EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: DOCUMENTS V. 247, P. 529 AND V. 247 P. 549 FOR PROJECT U.S. PUBLIC WORKS PROJECT NO. N.R.S. 525 B (1935), CSM 2048 AND CSM 2400

TRANSPORTATION PROJECT PLAT NO: 4090-07-21 - 4.02

PART OF LOT 1, CSM 2400 IN THE SW 1/4 OF SE 1/4, SECTION 18, AND PART OF LOT 1, CSM 2048, AND PART OF LOT 1, CSM 8115 IN THE NE 1/4 OF NE 1/4, SECTION 19, TOWNSHIP 13 NORTH, RANGE 18 EAST, TOWN OF ASHFORD, FOND DU LAC COUNTY, WISCONSIN.

RELOCATION ORDER STH 67 FOND DU LAC COUNTY
WCL-CAMPBELLSPORT

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 NAMED PROJECT.

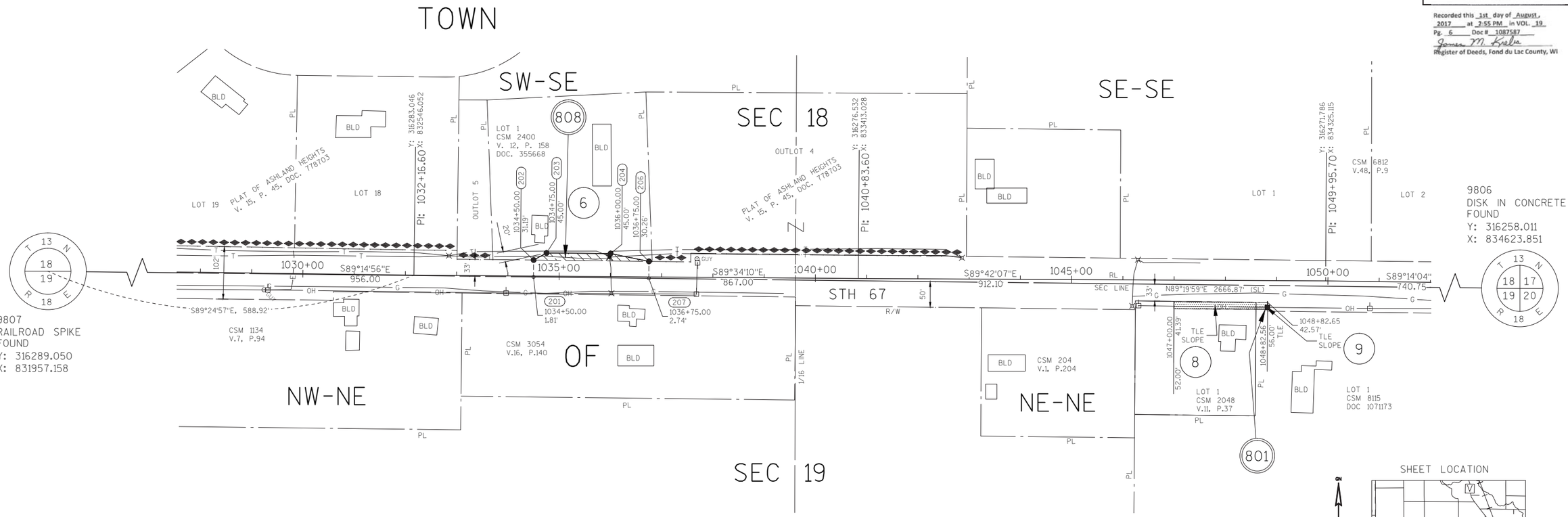
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

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 NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

DOC# 1087587
Recorded
August 01, 2017 2:55 PM
JAMES M KREBS
REGISTER OF DEEDS
FOND DU LAC COUNTY
Fee Amount: $25.00

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 4090-07-21 - 4.02
AMENDMENT NO:

Recorded this 1st day of August, 2017 at 2:55 PM in VOL. 19 Pg. 6 Doc # 1087587
James M. Krebs
Register of Deeds, Fond du Lac County, WI



RIGHT-OF-WAY LINE TABLE		
PT*-PT*	LENGTH	DIRECTION
9807-201	822.33	S89°19'59"E
201-202	33.00	N0°25'50"E
202-203	28.56	N61°30'32"E
203-204	125.00	S89°34'10"E
204-206	76.43	S78°26'59"E
206-207	33.00	S0°25'50"W
207-201	225.00	N89°19'59"W

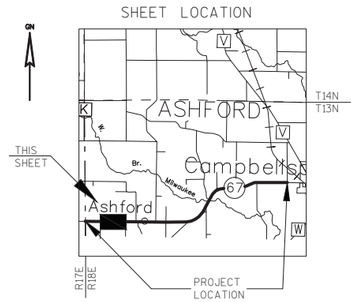
Point Table		
Point *	Northing	Easting
9807	316289.050	831957.158
201	316279.479	832779.436
202	316312.478	832779.684
203	316326.103	832804.787
204	316325.164	832929.784
206	316309.860	833004.671
207	316276.860	833004.423

801 WE ENERGIES
PARCEL 9
PRESCRIPTIVE

808 FRONTIER COMMUNICATIONS OF WI, LLC
PARCEL 6
DOC. 358590

UTILITY SCHEDULE OF INTERESTS REQUIRED		
UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
801	WE ENERGIES (ELEC)	RELEASE OF RIGHTS
808	FRONTIER COMMUNICATIONS OF WI, LLC	RELEASE OF RIGHTS

SHEET LOCATION



GN

SCALE, FEET
0 100 200

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, IN VOL. 19, PG. 2, AS DOCUMENT NO. 1086854, FOR ADDITIONAL INFORMATION.

Mead & Hunt, Inc.
1345B North Road
Green Bay, WI 54313-5723
920.496.0500
fax:920.496.0576
www.meadhunt.com

I, WILLIAM F. KOTTLER, PROFESSIONAL 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 WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 4090-07-21-4.02 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN WILLIAM F. KOTTLER S-2348 MIDDLETON, WI LAND SURVEYOR

WILLIAM F. KOTTLER, DATE 07-21-2017
PLS 2348

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
(SIGNATURE) DATE 7/21/2017
(PRINTED NAME) CURT VAN EREM

FILE NAME : \\CORP.MEADHUNT.COM\SHAREDFOLDERS\ENTP\3230500\113975.01\TECH\CAD\RW\040101_RP- TPP 4090-07-21.DWG PLOT DATE : 7/21/2017 2:52 PM PLOT BY : WILLIAM KOTTLER PLOT NAME : PLOT SCALE : 1:100
APPRAISAL PLAT DATE : ----------

OWNER'S NAMES ARE SHOWN FOR REFERENCE ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

SCHEDULE OF LANDS & INTERESTS REQUIRED						
PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW SF	R/W EXISTING SF	R/W TOTAL SF	TLE SF
11	LEONARD A. FLEISCHMAN AND KAY ANN FLEISCHMAN	TLE	0	0	0	1836
13	ERIC M. BRATH	TLE	0	0	0	1035

NOTES:
EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: DOCUMENTS V. 247, P. 530 AND V. 247, P. 533 FOR PROJECT U.S. PUBLIC WORKS PROJECT NO. N.R.S. 525 B (1935). MINNIE LANE PER FOND DU LAC COUNTY GIS: NO RECORD OR WIDTH.

TRANSPORTATION PROJECT PLAT NO: 4090-07-21 - 4.03

PARTS OF THE SW 1/4 OF THE SW 1/4 AND THE SE 1/4 OF SW 1/4, SECTION 17, TOWNSHIP 13 NORTH, RANGE 18 EAST, TOWN OF ASHFORD, FOND DU LAC COUNTY, WISCONSIN.

RELOCATION ORDER STH 67 FOND DU LAC COUNTY
WCL-CAMPBELLSPORT

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 NAMED PROJECT.

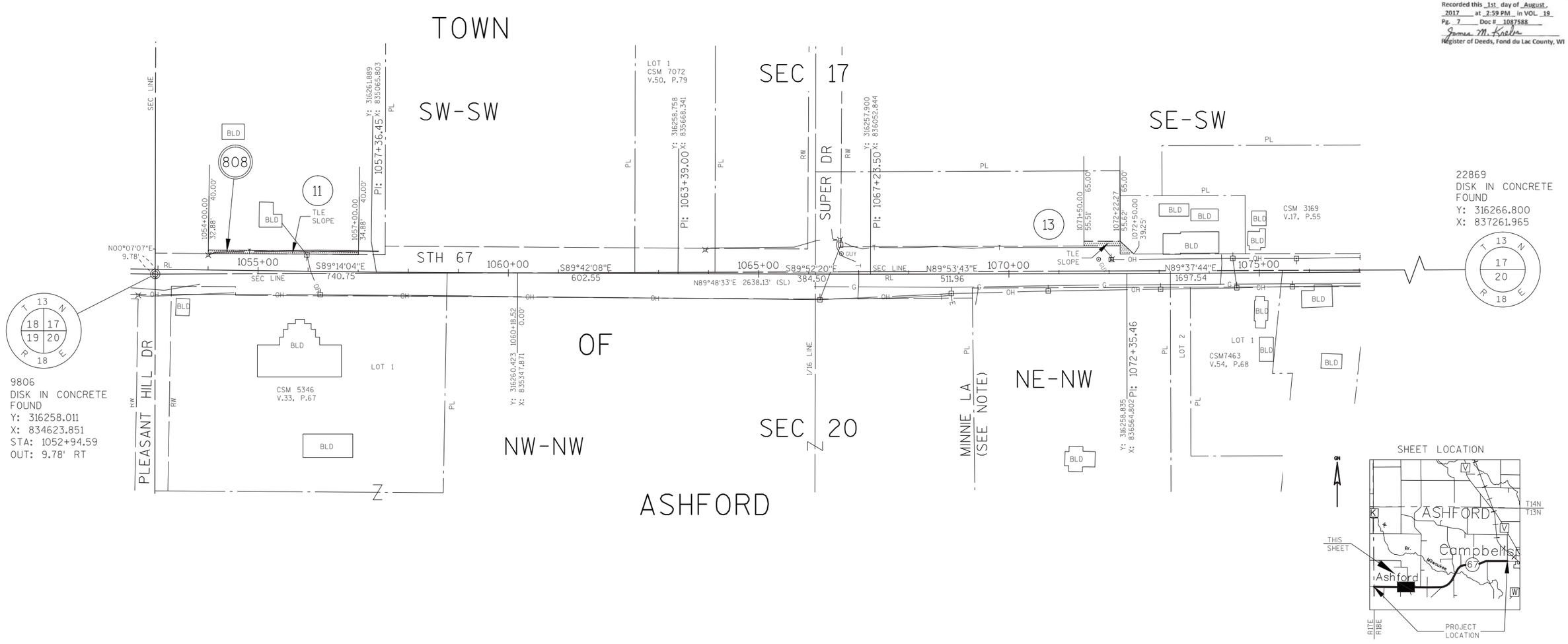
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

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 NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

DOC# 1087588
Recorded
August 01, 2017 2:59 PM
JAMES M KREBS
REGISTER OF DEEDS
FOND DU LAC COUNTY
Fee Amount: $25.00

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 4090-07-21 - 4.03
AMENDMENT NO:___

Recorded this 1st day of August, 2017 at 2:59 PM in VOL. 19 Pg. 7 Doc # 1087588
James M. Krebs
Register of Deeds, Fond du Lac County, WI



808 FRONTIER COMMUNICATIONS OF WI, LLC
PARCEL 11
DOC. 358396

UTILITY SCHEDULE OF INTERESTS REQUIRED		
UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
808	FRONTIER COMMUNICATIONS OF WI, LLC	RELEASE OF RIGHTS

GN
SCALE, FEET
0 100 200

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, IN VOL. 19, PG. 2, AS DOCUMENT NO. 1086854, FOR ADDITIONAL INFORMATION.

Mead & Hunt
Mead & Hunt, Inc.
13459 North Road
Green Bay, WI 54313-5723
920.496.0500
fax:920.496.0576
www.meadhunt.com

I, WILLIAM F. KOTTLER, PROFESSIONAL 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 WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 4090-07-21-4.03 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN WILLIAM F. KOTTLER S-2348 MIDDLETON, WI LAND SURVEYOR

07-17-2017
WILLIAM F. KOTTLER,
PLS 2348

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
(SIGNATURE) _____ DATE 7-18-2017
(PRINTED NAME) CURT VAN EREM

FILE NAME : \\CORP.MEADHUNT.COM\SHAREDFOLDERS\ENTP\3230500\113975.01\TECH\CAD\RW\040101_RP- TPP 4090-07-21.DWG
PLOT DATE : 7/17/2017 5:23 PM PLOT BY : WILLIAM KOTTLER PLOT NAME : PLOT SCALE : 1:100
APPRAISAL PLAT DATE : _____

OWNER'S NAMES ARE SHOWN FOR REFERENCE ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

SCHEDULE OF LANDS & INTERESTS REQUIRED						
PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW SF	R/W EXISTING SF	R/W TOTAL SF	TLE SF
14	WILLIAM A. DREIKOSEN RES TR AND CAROL M DREIKOSEN RES TR	TLE	0	0	0	1460
16	RICHARD D. DREIKOSEN AND AMY S. DREIKOSEN	TLE	0	0	0	761
17	WILLIAM A. BAUMHARDT	TLE	0	0	0	866

NOTES:
EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: DOCUMENTS V. 247, P. 549 AND V. 247, P. 640 FOR PROJECT U.S. PUBLIC WORKS PROJECT NO. N.R.S. 525 B (1935)

TRANSPORTATION PROJECT PLAT NO: 4090-07-21 - 4.04

PARTS OF THE SW 1/4 OF THE SW 1/4 AND THE SE 1/4 OF SW 1/4, SECTION 16, AND PART OF THE NW 1/4 OF THE NW 1/4, SECTION 21, ALL IN TOWNSHIP 13 NORTH, RANGE 18 EAST, TOWN OF ASHFORD, FOND DU LAC COUNTY, WISCONSIN.

RELOCATION ORDER STH 67 FOND DU LAC COUNTY
WCL-CAMPBELLSPORT

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 NAMED PROJECT.

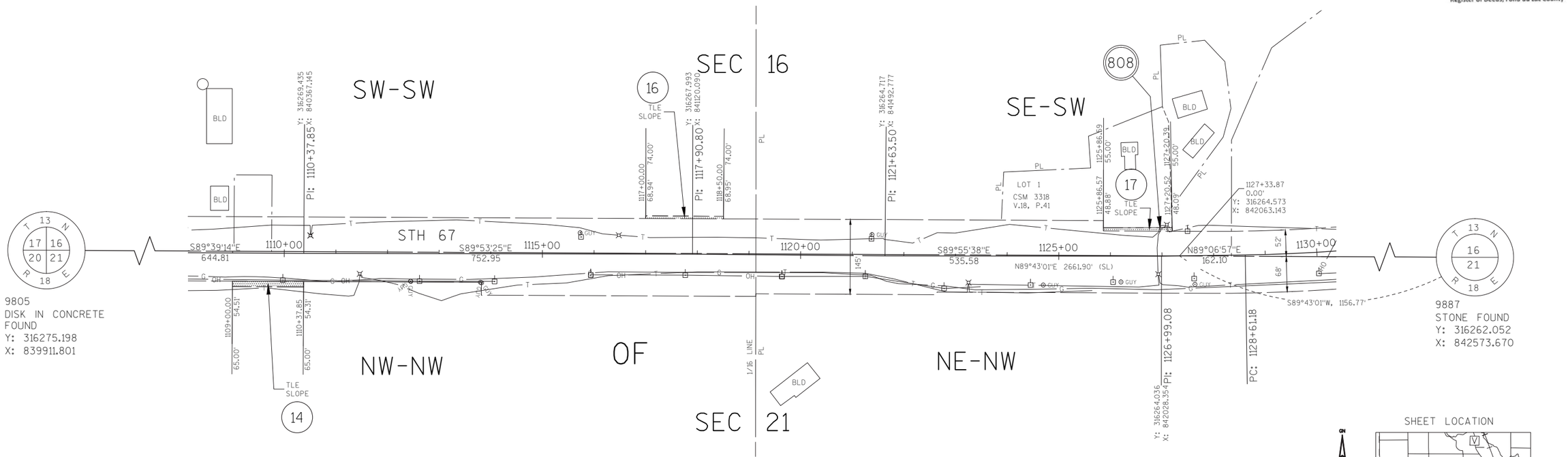
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

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 NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

DOC# 1087589
Recorded
August 01, 2017 3:01 PM
JAMES M KREBS
REGISTER OF DEEDS
FOND DU LAC COUNTY
Fee Amount: $25.00

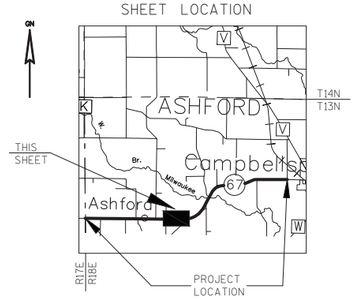
RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 4090-07-21 - 4.04
AMENDMENT NO:___

Recorded this 1st day of August, 2017 at 3:01 PM in VOL. 19 Pg. 8 Doc # 1087589
James M. Krebs
Register of Deeds, Fond du Lac County



PI STA = 1147+58.43
Y = 316295.81
X = 844087.46
DELTA = 60°19'15"
D = 1°45'17"
T = 1897.26
L = 3437.38
R = 3265.00
PC STA = 1128+61.18
PT STA = 1162+98.56

SHEET LOCATION



808 FRONTIER COMMUNICATIONS OF WI, LLC
PARCEL 17
DOC. 259382

UTILITY SCHEDULE OF INTERESTS REQUIRED		
UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
808	FRONTIER COMMUNICATIONS OF WI, LLC	RELEASE OF RIGHTS

GN
SCALE, FEET
0 100 200

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, IN VOL. 19, PG. 2, AS DOCUMENT NO. 1086854, FOR ADDITIONAL INFORMATION.

Mead & Hunt
Mead & Hunt, Inc.
1345B North Road
Green Bay, WI 54313-5723
920.496.0500
fax:920.496.0576
www.meadhunt.com

I, WILLIAM F. KOTTLER, PROFESSIONAL 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 WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 4090-07-21-4.04 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN WILLIAM F. KOTTLER S-2348 MIDDLETON, WI LAND SURVEYOR

07-17-2017
WILLIAM F. KOTTLER,
PLS 2348

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
(SIGNATURE) ___ DATE 7-18-2017
(PRINTED NAME) CURT VAN EREM

FILE NAME : \\CORP.MEADHUNT.COM\SHAREDFOLDERS\ENTP\3230500\113975.01\TECH\CAD\RW\040101_RP- TPP 4090-07-21.DWG PLOT DATE : 7/17/2017 5:23 PM PLOT BY : WILLIAM KOTTLER PLOT NAME : PLOT SCALE : 1:100
APPRAISAL PLAT DATE : _____ _____ 4090-07-21 4.04

TRANSPORTATION PROJECT PLAT NO: 4090-07-21 - 4.05

PART OF THE NW 1/4 OF THE SW 1/4 AND THE SW 1/4 OF THE NW 1/4, SECTION 15, TOWNSHIP 13 NORTH, RANGE 18 EAST, TOWN OF ASHFORD, FOND DU LAC COUNTY, WISCONSIN.

RELOCATION ORDER STH 67 FOND DU LAC COUNTY
WCL-CAMPBELLSPORT

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 NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3), 84.09 AND 84.30, 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 NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

DOC# 1087590
Recorded
August 01, 2017 3:02 PM
JAMES M KREBS
REGISTER OF DEEDS
FOND DU LAC COUNTY
Fee Amount: $25.00

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 4090-07-21 - 4.05
AMENDMENT NO(S):

Recorded this 1st day of August, 2017 at 3:02 PM in VOL. 19 Pg. 9 Doc # 1087590
James M. Krebs
Register of Deeds, Fond du Lac County, WI

OWNER'S NAMES ARE SHOWN FOR REFERENCE ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW SF	R/W EXISTING SF	R/W TOTAL SF	TLE SF
21	CLOVER HILL DAIRY LLC	FEE	2001	11074	141863	0
22	PAUL KOCH, MICHAEL H. KOCH, SHIRLEY KOCH AND SHARON KOCH	TLE	0	0	0	441
23	MARK STEVEN TRACY AND LISA LEE TRACY	TLE	0	0	0	3245

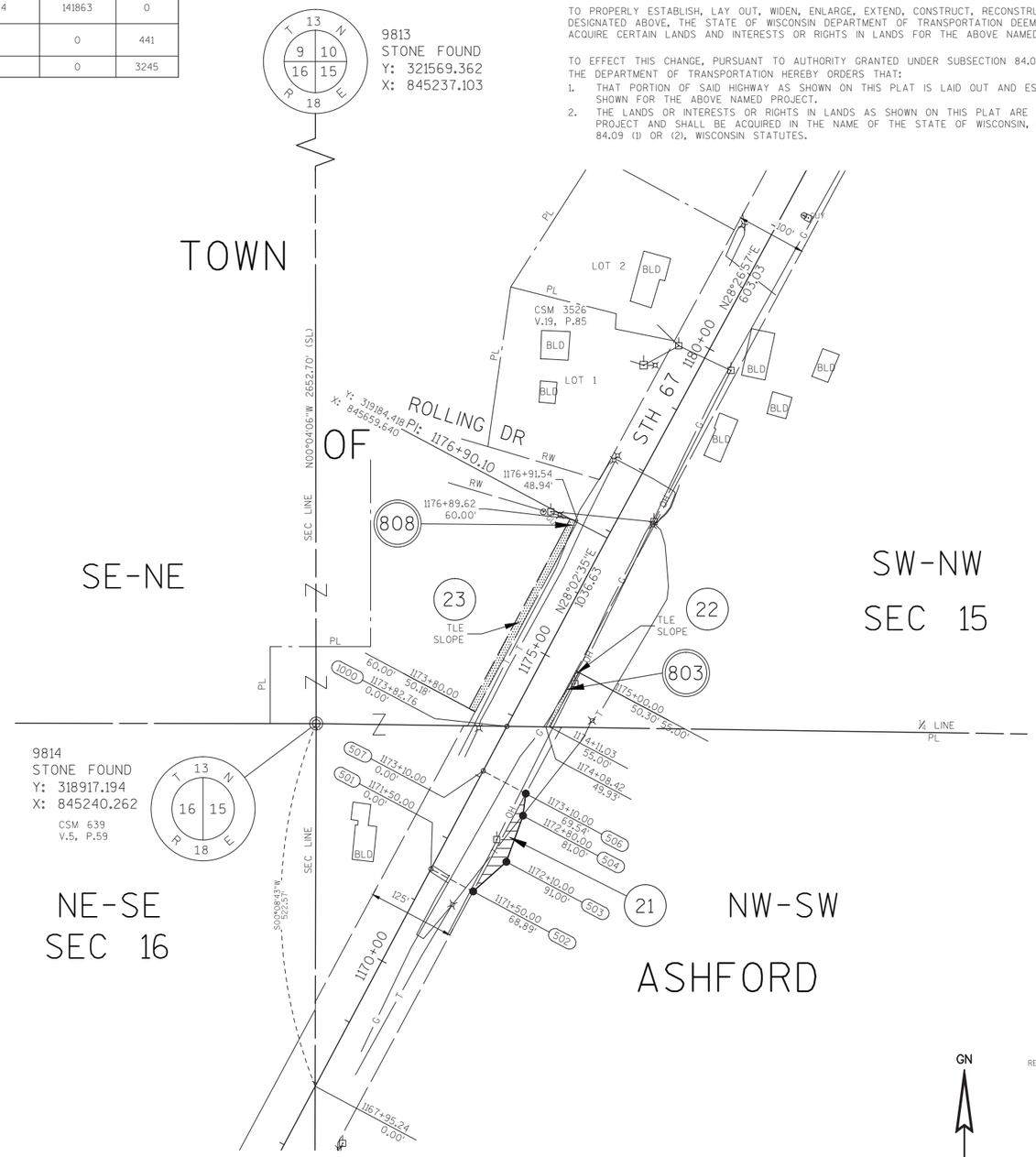
NOTES:
EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: DOCUMENTS V. 247, P. 552 AND V. 247, P. 554 FOR PROJECT U.S. PUBLIC WORKS PROJECT NO. N.R.S. 525 B (1935)

803 ALLIANT ENERGY (GAS)
PARCEL 22
PRESCRIPTIVE

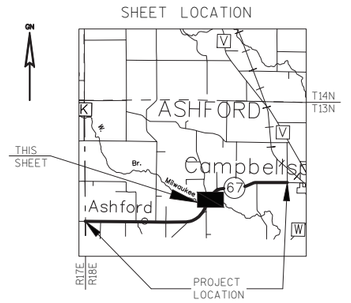
808 FRONTIER COMMUNICATIONS OF WI, LLC
PARCEL 21 & 23
DOC. 359270, DOC. 248400, DOC. 564263, DOC. 466975, DOC. 466976

UTILITY SCHEDULE OF INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
803	ALLIANT ENERGY (GAS)	RELEASE OF RIGHTS
808	FRONTIER COMMUNICATIONS OF WI, LLC	RELEASE OF RIGHTS



SHEET LOCATION



RIGHT-OF-WAY LINE TABLE

PT*-PT*	LENGTH	DIRECTION
9814-1000	274.92	S89°09'33"E
1000-501	232.76	S28°02'35"W
501-502	68.89	S61°57'25"E
502-503	63.94	N48°16'18"E
503-504	70.71	N19°54'47"E
504-506	32.12	N7°07'41"E
506-507	69.54	N61°57'25"W
507-501	160.00	S28°02'35"W

Point Table

Point *	Northing	Easting
9814	318917.194	845240.262
1000	318913.160	845515.148
501	318707.729	845405.720
502	318675.342	845466.523
503	318717.903	845514.245
504	318784.386	845538.328
506	318816.254	845542.313
507	318848.945	845480.942

GN
SCALE, FEET
0 100 200

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, IN VOL. 19, PG. 2, AS DOCUMENT NO. 1086854, FOR ADDITIONAL INFORMATION.

Mead & Hunt, Inc.
1345B North Road
Green Bay, WI 54313-5723
920.496.0500
fax:920.496.0576
www.meadhunt.com

I, WILLIAM F. KOTTLER, PROFESSIONAL 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 WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 4090-07-21-4.05 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN WILLIAM F. KOTTLER S-2348 MIDDLETON, WI LAND SURVEYOR

DATE 07-17-2017
WILLIAM F. KOTTLER,
PLS 2348

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
(SIGNATURE) _____ DATE 7-18-2017
(PRINTED NAME) CURT VAN EREM

FILE NAME : \\CORP.MEADHUNT.COM\SHAREDFOLDERS\ENTP\3230500\113975.01\TECH\CAD\RW\040101_RP- TPP 4090-07-21.DWG
PLOT DATE : 7/17/2017 5:23 PM
PLOT BY : WILLIAM KOTTLER
PLOT NAME :
PLOT SCALE : 1:100
APPRAISAL PLAT DATE : _____

OWNER'S NAMES ARE SHOWN FOR REFERENCE ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

SCHEDULE OF LANDS & INTERESTS REQUIRED						
PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW SF	R/W EXISTING SF	R/W TOTAL SF	TLE SF
26	ORRIN O. TASSLER AND JUDITH M. TASSLER	TLE	0	0	0	2930

NOTES:
EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: DOCUMENTS V. 247, P. 550 FOR PROJECT U.S. PUBLIC WORKS PROJECT NO. N.R.S. 525 B (1935)

TRANSPORTATION PROJECT PLAT NO: 4090-07-21 - 4.06

PART OF THE NW 1/4 OF THE NW 1/4, SECTION 14, TOWNSHIP 13 NORTH, RANGE 18 EAST, TOWN OF ASHFORD, FOND DU LAC COUNTY, WISCONSIN.

RELOCATION ORDER STH 67 FOND DU LAC COUNTY
WCL-CAMPBELLSPORT

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 NAMED PROJECT.

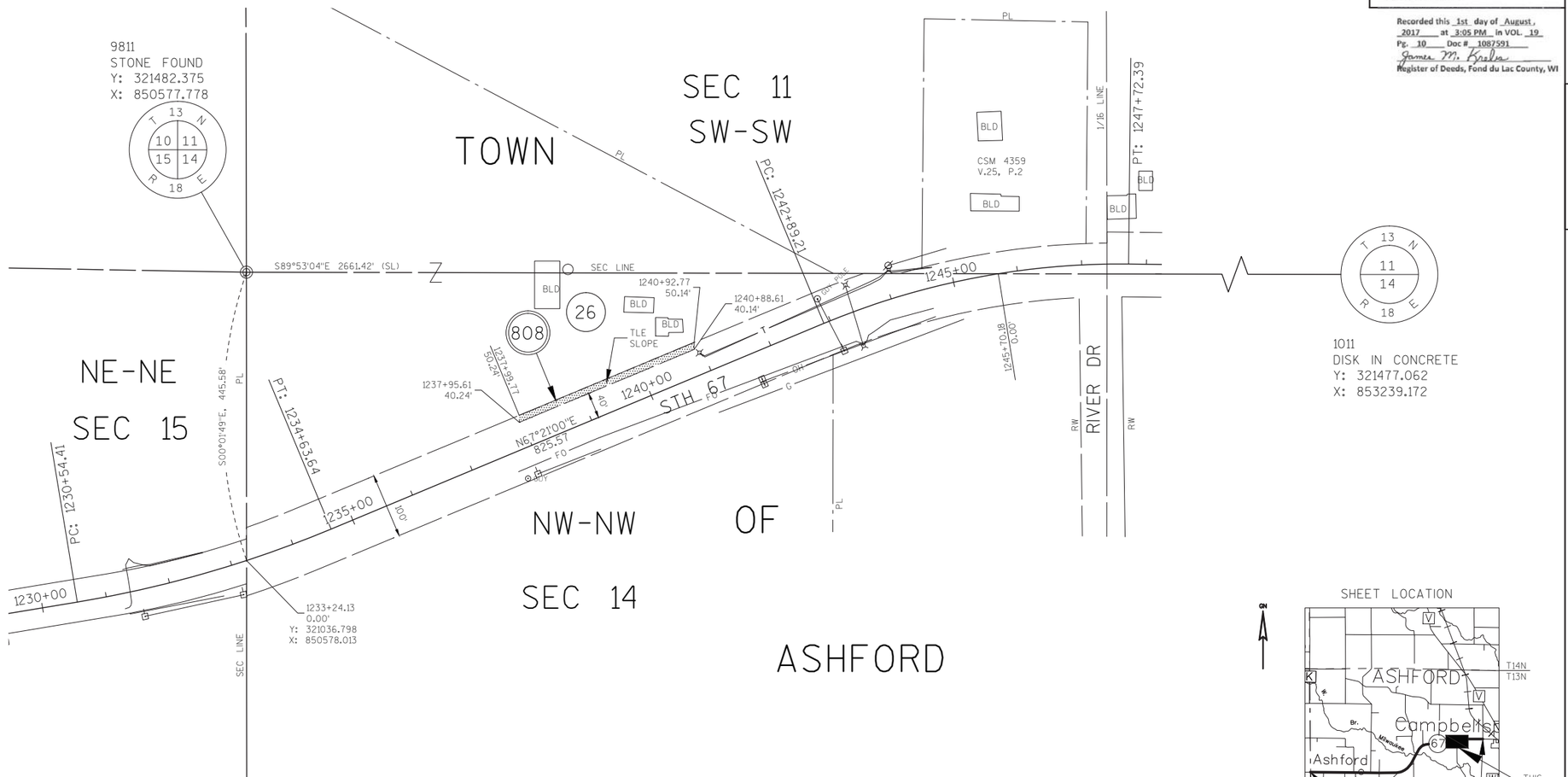
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

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 NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

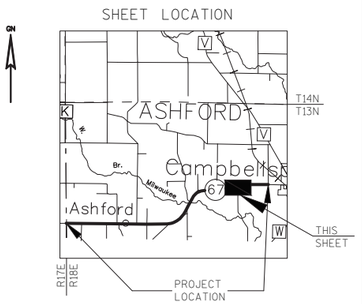
DOC# 1087591
Recorded
August 01, 2017 3:05 PM
JAMES M KREBS
REGISTER OF DEEDS
FOND DU LAC COUNTY
Fee Amount: $25.00

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 4090-07-21 - 4.06
AMENDMENT NO:___

Recorded this 1st day of August, 2017 at 3:05 PM in VOL. 19 Pg. 10 Doc # 1087591
James M. Krebs
Register of Deeds, Fond du Lac County, WI



SHEET LOCATION



808 FRONTIER COMMUNICATIONS OF WI, LLC
PARCEL 26
DOC. 259383

UTILITY SCHEDULE OF INTERESTS REQUIRED		
UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
808	FRONTIER COMMUNICATIONS OF WI, LLC	RELEASE OF RIGHTS

PI STA = 1232+59.94
Y = 321006.25
X = 850519.07
DELTA = 13°14'49"
D = 3°14'13"
T = 205.53
L = 409.23
R = 1770.00
PC STA = 1230+54.41
PT STA = 1234+63.64

PI STA = 1245+34.17
Y = 321497.66
X = 851696.71
DELTA = 23°15'50"
D = 4°48'53"
T = 244.96
L = 483.18
R = 1190.00
PC STA = 1242+89.21
PT STA = 1247+72.39

GN
SCALE, FEET
0 100 200

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, IN VOL. 19, PG. 2, AS DOCUMENT NO. 1086854, FOR ADDITIONAL INFORMATION.

Mead & Hunt
Mead & Hunt, Inc.
1345B North Road
Green Bay, WI 54313-5723
920.496.0500
fax:920.496.0576
www.meadhunt.com

I, WILLIAM F. KOTTLER, PROFESSIONAL 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 WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 4090-07-21-4.06 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN WILLIAM F. KOTTLER S-2348 MIDDLETON, WI LAND SURVEYOR

DATE 07-17-2017
WILLIAM F. KOTTLER,
PLS 2348

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
(SIGNATURE) Curt Van Erem DATE 7-18-2017
(PRINTED NAME) CURT VAN EREM

FILE NAME : \\CORP.MEADHUNT.COM\SHAREDFOLDERS\ENTP\3230500\113975.01\TECH\CAD\RW\040101_RP- TPP 4090-07-21.DWG
PLOT DATE : 7/17/2017 5:23 PM PLOT BY : WILLIAM KOTTLER PLOT NAME : PLOT SCALE : 1:100
APPRAISAL PLAT DATE : _____

OWNER'S NAMES ARE SHOWN FOR REFERENCE ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

TRANSPORTATION PROJECT PLAT NO: 4090-07-21 - 4.07 AMENDMENT NUMBER 1, AMENDS PARCEL 31 OF TRANSPORTATION PROJECT PLAT 4090-07-21-4.07, RECORDED AS DOCUMENT NUMBER 1087592.

PARTS OF THE SW 1/4 OF THE SE 1/4 AND SE 1/4 OF THE SE 1/4, SECTION 11, PART OF THE SW 1/4 OF THE SW 1/4, SECTION 12, PART OF THE NW 1/4 OF THE NW 1/4, SECTION 13 AND PART OF THE NE 1/4 OF THE NE 1/4, SECTION 14, TOWNSHIP 13 NORTH, RANGE 18 EAST, TOWN OF ASHFORD, FOND DU LAC COUNTY, WISCONSIN.

RELOCATION ORDER STH 67 FOND DU LAC COUNTY
WCL-CAMPBELLSPORT

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 NAMED PROJECT.

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DOC# 1093194
Recorded
December 12, 2017 2:36 PM
JAMES M KREBS
REGISTER OF DEEDS
FOND DU LAC COUNTY
Fee Amount: $25.00

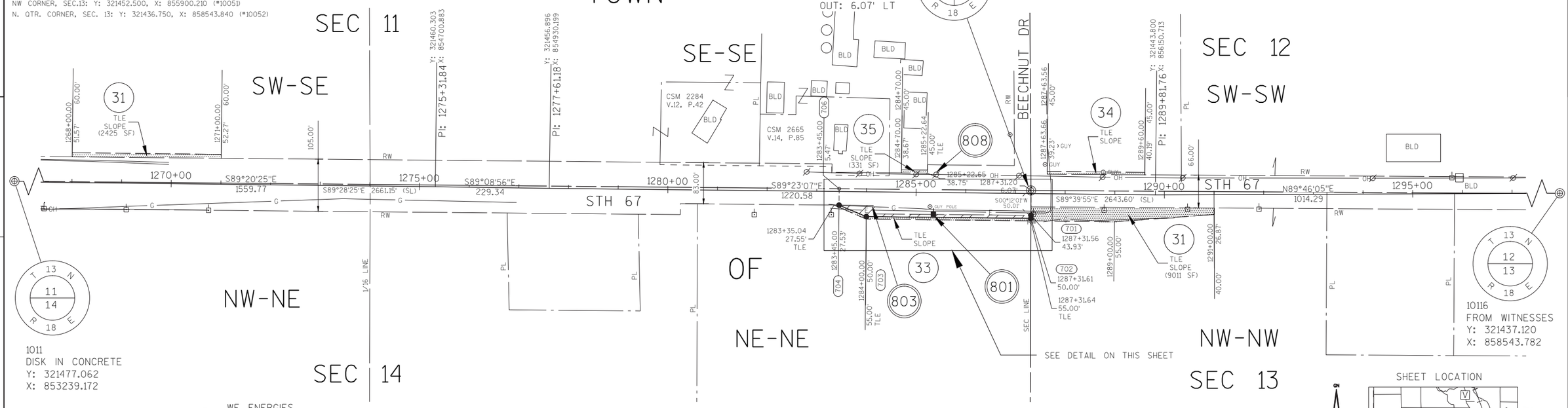
RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 4090-07-21 - 4.07
AMENDMENT NO: 1

Recorded this 12th day of December, 2017 at 2:36 PM in VOL. 19 Pg. 17 Doc # 1093194
Tamara Jo Krebs
Register of Deeds, Fond du Lac County, WI

SCHEDULE OF LANDS & INTERESTS REQUIRED						
PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW SF	R/W EXISTING SF	R/W TOTAL SF	TLE SF
31	DENNIS R. THEISEN, MARY B. THEISEN, HAROLD A. THEISEN AND JOANN C. THEISEN	TLE	0	0	0	11436
33	TRUSTEES OF THE WILLIAM J. HATCH AND LAURIE J. HATCH LIVING TRUST	FEE & TLE	2830	18102	20932	1933
34	HAROLD A. THEISEN AND JOANN THEISEN	TLE	0	0	0	1039
35	DENNIS R. THEISEN, MARY B. THEISEN, HAROLD A. THEISEN AND JOANN C. THEISEN	TLE	0	0	0	331

NOTES:
EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: DOCUMENTS V. 247, P. 534, V. 250, P. 57 AND V. 250, P. 97 FOR PROJECT U.S. PUBLIC WORKS PROJECT NO. N.R.S. 525 B (1935) AND TOWN OF ASHFORD TOWN ROAD RECORDS DATED OCTOBER 30, 1847 BY H.W. NEWTON, SURVEYOR.
EXISTING SIDE ROAD RIGHT-OF-WAYS SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: TOWN OF ASHFORD TOWN ROAD RECORDS DATED OCTOBER 22, 1847 BY H.W. NEWTON, SURVEYOR.

COORDINATES OF THE NW CORNER, SEC.13, T13N, R18E AND OF THE NORTH QUARTER CORNER OF SEC.13, T13N, R18E WERE UPDATED FOR THE PURPOSE OF THE ADJOINING PROJECT TO THE EAST (TPP 4090-06-21) AFTER THIS PLAT WAS SUBMITTED.
THE COORDINATES FOR 4090-06-21 ON THESE CORNERS ARE AS FOLLOWS:
NW CORNER, SEC.13: Y: 321452.500, X: 855900.210 (*10051)
N. QTR. CORNER, SEC. 13: Y: 321436.750, X: 858543.840 (*10052)



Point Table		
Point #	Northing	Easting
9804	321452.559	855900.231
701	321402.553	855900.056
702	321396.487	855900.035
703	321400.045	855568.449
704	321423.104	855513.693
706	321456.106	855514.049

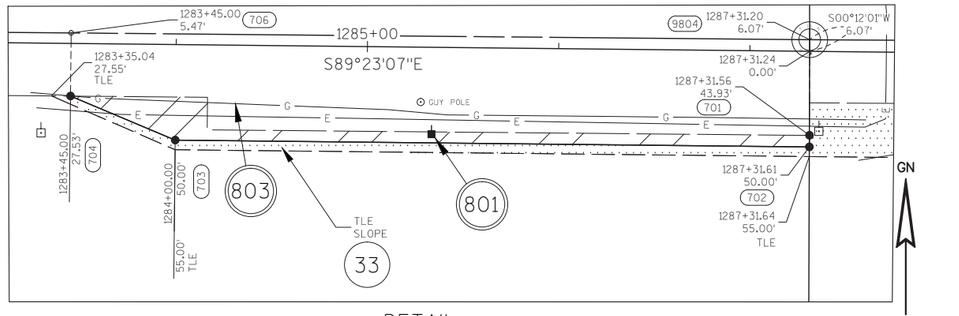
RIGHT-OF-WAY LINE TABLE		
PT#-PT#	LENGTH	DIRECTION
9804-701	50.01	S0°12'01"W
701-702	6.07	S0°12'01"W
702-703	331.61	N89°23'07"W
703-704	59.41	N67°09'47"W
704-706	33.00	N0°37'03"E
706-9804	386.20	S89°28'25"E

(801) WE ENERGIES
PARCELS 31, 33 & 34
DOC. 153345, DOC. 237517, DOC. 237520, DOC. 237526, DOC. 413926, DOC. 413929

(803) ALLIANT ENERGY (GAS)
PARCELS 31 & 33
PERSCRIPTIVE

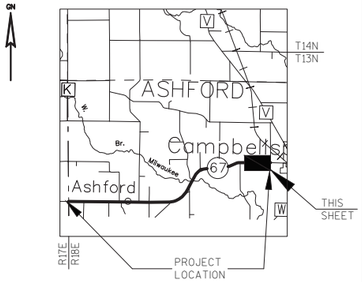
(808) FRONTIER COMMUNICATIONS OF WI, LLC
PARCELS 31 & 33
DOC. 237517
DOC. 237520

UTILITY SCHEDULE OF INTERESTS REQUIRED		
UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
801	WE ENERGIES (ELEC)	RELEASE OF RIGHTS
803	ALLIANT ENERGY (GAS)	RELEASE OF RIGHTS
808	FRONTIER COMMUNICATIONS OF WI, LLC	RELEASE OF RIGHTS



DETAIL
NOT TO SCALE

SHEET LOCATION



REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, IN VOL. 19, PG. 2, AS DOCUMENT NO. 1086854, FOR ADDITIONAL INFORMATION.

Mead & Hunt
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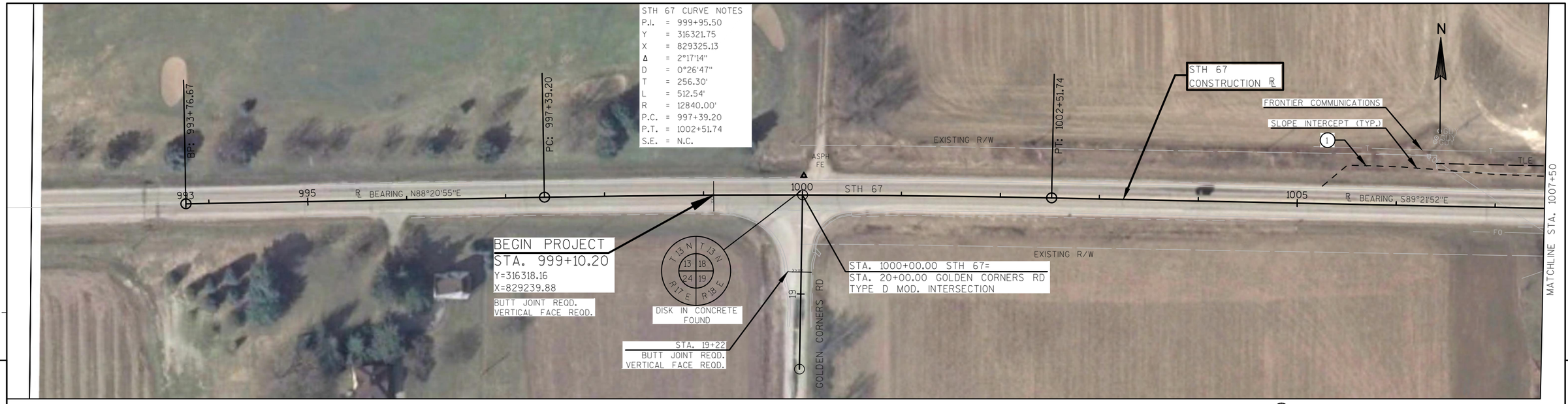
I, WILLIAM F. KOTTLER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 4090-07-21-4.07 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

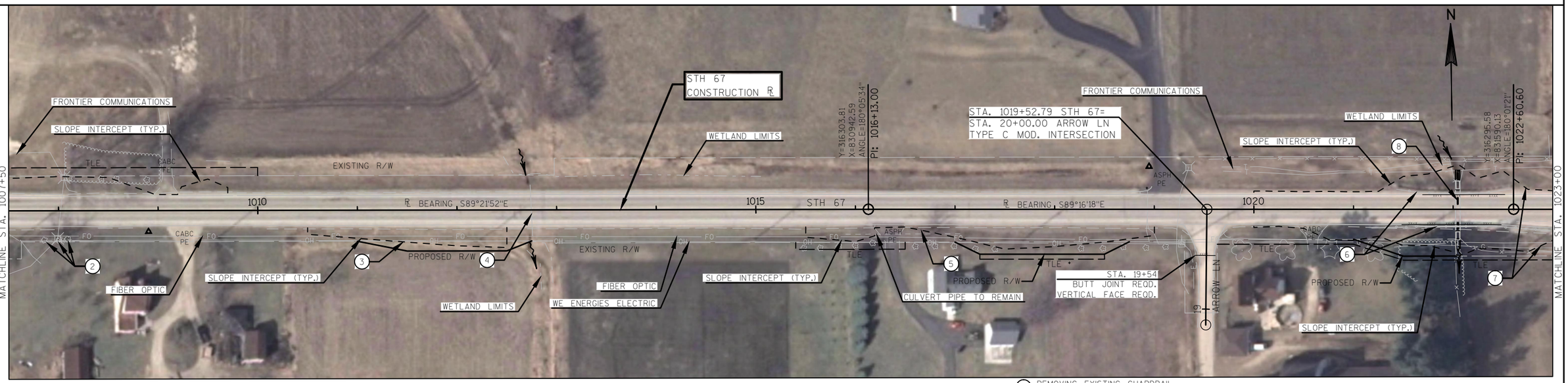
WISCONSIN WILLIAM F. KOTTLER S-2348 MIDDLETON, WI LAND SURVEYOR

DATE 12-04-2017
WILLIAM F. KOTTLER,
PLS 2348

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
(SIGNATURE) _____ DATE 12-06-2017
(PRINTED NAME) CURT VAN EREM

FILE NAME : X:\3230500\113975.01\TECH\CAD\RW\040107A_RP- TPP 4090-07-21.DWG
APPRAISAL PLAT DATE : _____
PLOT DATE : 12/4/2017 3:10 PM PLOT BY : DAVID YAHNKE PLOT NAME : PLOT SCALE : 1:100
_____ 4090-07-21 4.07a





2 CLEARING AND GRUBBING REQD. FOR TREES WITHIN THE CLEARZONE
STA. 1007+84, RT - 26 ID
STA. 1007+99, RT - 8 ID
STA. 1008+08, RT - 14 ID

3 STA. 1010+50 - STA. 1012+50, RT
FLATTEN EXISTING SLOPE

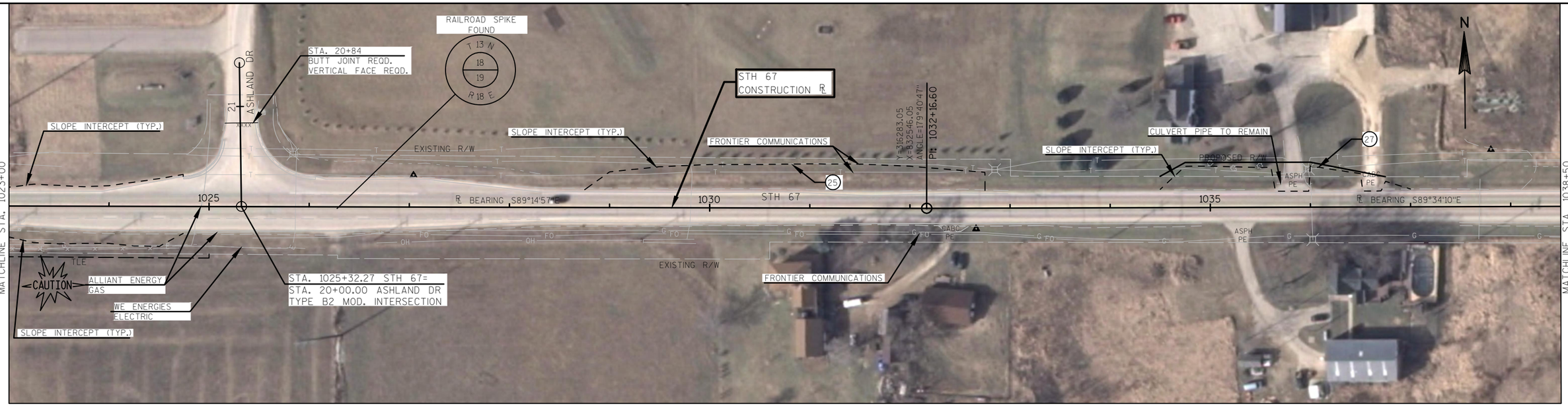
4 STA. 1012+73
EXISTING 36-INCH X 24-INCH REINFORCED BOX CULVERT TO REMAIN

5 STA. 1015+50 - STA. 1019+00, RT
FLATTEN EXISTING SLOPES

6 REMOVING EXISTING GUARDRAIL
STA. 1021+18 - STA. 1022+97, RT - 120 LF REQD.
STA. 1021+43 - STA. 1022+59, LT - 180 LF REQD.
REMOVE EXISTING RETAINING WALLS
STA. 1021+83 - STA. 1022+23, RT
STA. 1021+86 - STA. 1022+26, LT
SALVAGE AND RESET FENCE
STA. 1021+98 - STA. 1022+10, LT - 30 LF REQD.
STA. 1022+02 - STA. 1022+28, RT - 40 LF REQD.
REMOVE EXCESS PAVED SHOULDER LT & RT

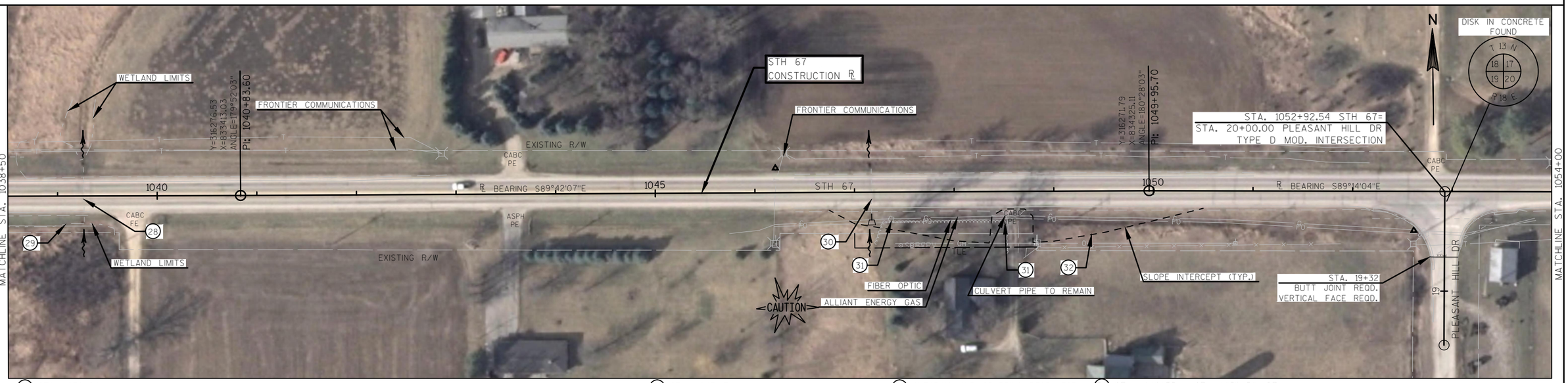
7 STA. 1020+50 - STA. 1024+75, RT & LT
FLATTEN EXISTING SLOPES

8 STA. 1022+05
EXTEND EXISTING 60-INCH X 42-INCH REINFORCED CONCRETE BOX CULVERT
SEE CONSTRUCTION DETAILS



(25) STA. 1028+75 - STA. 1032+75, LT
FLATTEN EXISTING SLOPE

(27) STA. 1034+50 - STA. 1037+00, LT
FLATTEN EXISTING SLOPE



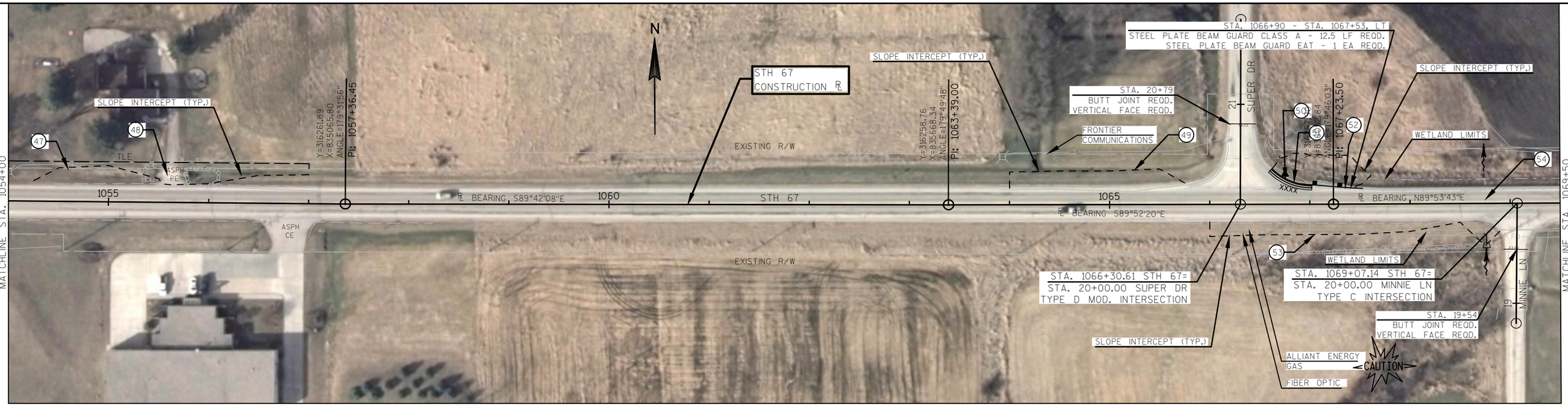
(28) STA. 1039+24
EXISTING 24-INCH RCCP
APRON ENDWALLS FOR CULVERT PIPE
SALVAGED 24-INCH - 1 EA REQD. (SOUTH END)

(29) GRADE EXISTING SOUTH DITCH TO DRAIN
ADJACENT TO AEW

(30) STA. 1047+17
EXISTING 30-INCH RCCP
EXTEND SOUTH - CULVERT PIPE
REINFORCED CONCRETE CLASS III
30-INCH - 6 LF REQD.
APRON ENDWALLS FOR CULVERT PIPE
SALVAGED 30-INCH - 1 EA REQD.
CONCRETE COLLARS FOR PIPE - 1 EA REQD.

(31) CLEARING AND GRUBBING REQD. FOR
TREES WITHIN THE CLEARZONE
STA. 1047+37, RT - 32 ID
STA. 1048+48, RT - 32 ID

(32) STA. 1046+75 - STA. 1050+50, RT
FLATTEN EXISTING SLOPE



(47) STA. 1054+25 - STA. 1057+00, LT
FLATTEN EXISTING SLOPE

(48) STA. 1055+63
APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 36-INCH 6 TO 1 - 2 EA REQD.

(49) STA. 1064+00 - STA. 1065+75, LT
FLATTEN EXISTING SLOPE

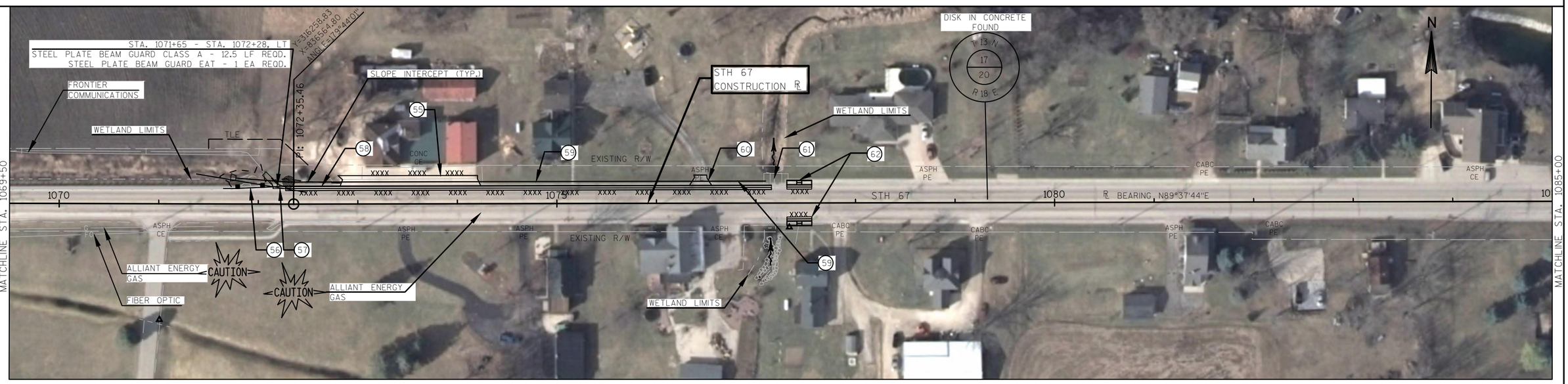
(50) REMOVING CURB AND GUTTER
STA. 1066+59 - STA. 1067+02, LT - 45 LF REQD.
SAW CUT REQD.

(51) CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D (DRIVEWAY CUT CURB REQD.)
STA. 1066+59 - STA. 1067+02, LT - 45 LF REQD.

(52) REMOVING EXISTING GUARDRAIL
STA. 1067+03 - STA. 1067+53, LT - 50 LF REQD.
EXISTING RETAINING WALL LT TO REMAIN

(53) STA. 1066+00 - STA. 1068+90, RT
FLATTEN EXISTING SLOPE

(54) STA. 1068+75
EXISTING 36-INCH RCCP
EXTEND SOUTH - CULVERT PIPE REINFORCED CONCRETE CLASS III - 8-LF REQD.
APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 36-INCH - 1 EA REQD.
CONCRETE COLLARS FOR PIPE - 1 EA REQD.



(55) STA. 1072+80 - STA. 1074+23, LT
REMOVING PAVEMENT (DRIVEWAY) 160 SY REQD.
AND SAWCUT REQD. AT 28.4' LT
CONCRETE DRIVEWAY 6-INCH - 160 SY SF REQD.
SEE CONSTRUCTION DETAIL

(56) REMOVING EXISTING GUARDRAIL
STA. 1071+65 - STA. 1072+32, LT - 67 LF REQD.

(57) REMOVING CURB AND GUTTER
STA. 1072+14 - STA. 1077+16, LT - 505 LF REQD.
SAW CUT REQD.

(58) CONCRETE CURB AND GUTTER 30-INCH TYPE D (STA. 1072+27 - STA. 1074+24 DRIVEWAY CUT CURB REQD.)
STA. 1072+27 - STA. 1077+16, LT - 490 LF REQD.
ASPHALTIC FLUME REQD.

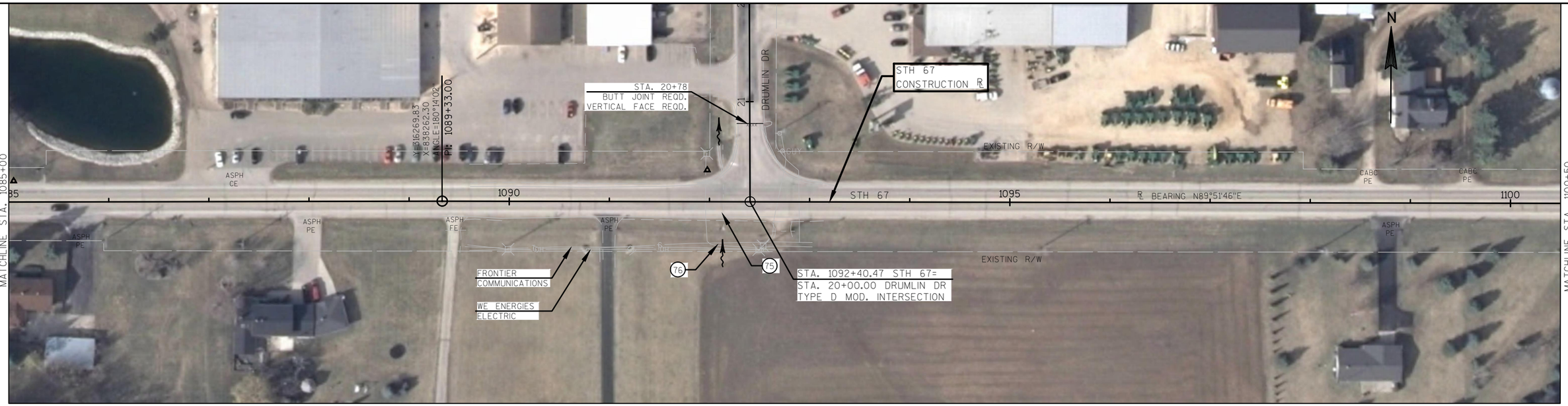
(59) STA. 1071+77 TO STA. 1077+10
REMOVE AND REPLACE EXISTING 36" STORM SEWER
SEE CONSTRUCTION DETAIL

(60) STA. 1076+44
REMOVING ASPHALTIC SURFACE - 18 SY REQD.
SAW CUT REQD. AT 28.4' LT
ASPHALTIC SURFACE REQD. - 3 TONS REQD.
SEE CONSTRUCTION DETAIL

(61) STA. 1077+17
EXISTING TWIN CELL 30-INCH X 72-INCH REINFORCED CONCRETE BOX CULVERT TO REMAIN
CLEANING CULVERT PIPES - 2 EA REQD.

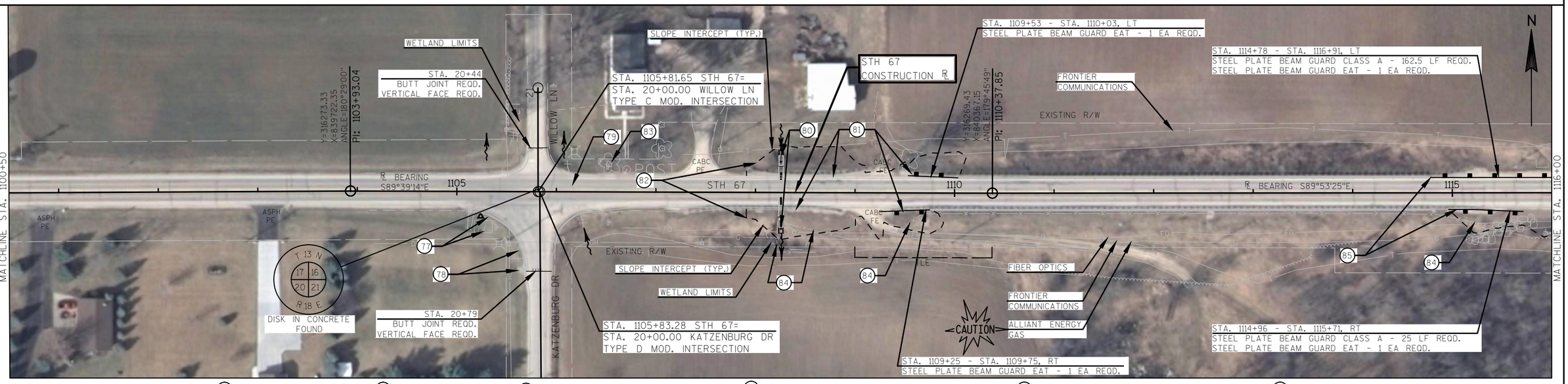
(62) STA. 1077+30 TO STA. 1077+55, RT & LT
CONSTRUCT TYPE 7A CURB RAMPS
SEE STANDARD DETAIL DRAWINGS

PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	PLAN: MAINLINE	SHEET 81 E



(75) STA. 1092+12
EXISTING 36-INCH CMCP
CULVERT PIPE LINERS 36-INCH - 76 LF REQD.

(76) GRADE EXISTING SOUTH DITCH TO DRAIN
ADJACENT TO AEW



(77) STA. 1105+27
EXISTING 24-INCH RCCP
AND TYPE 8 INLET
TO REMAIN

(78) STA. 1105+62
EXISTING 24-INCH RCCP
AND TYPE 8 INLET
TO REMAIN

(79) STA. 1106+18
EXISTING 24-INCH RCCP
TO REMAIN

(80) STA. 1108+26
EXTEND EXISTING 60-INCH X 40-INCH
REINFORCED CONCRETE BOX CULVERT
SEE CONSTRUCTION DETAILS

(81) REMOVING GUARDRAIL
STA. 1107+33 - STA. 1108+87, RT - 154 LF REQD.
STA. 1107+96 - STA. 1109+12, LT - 116 LF REQD.
STA. 1109+36 - STA. 1109+75, RT - 39 LF REQD.
STA. 1109+53 - STA. 1110+03, LT - 50 LF REQD.

(82) STA. 1107+91 - STA. 1109+25, LT & RT
FLATTEN EXISTING SLOPE

(83) CLEARING AND GRUBBING REQD. FOR
TREE WITHIN THE CLEARZONE
STA. 1106+54, LT - 32 ID

(84) SALVAGE AND RESET FENCE
STA. 1108+21 - STA. 1108+22, RT - 35 LF REQD.
STA. 1108+31 - STA. 1108+95, RT - 65 LF REQD.
STA. 1109+50 - STA. 1110+00, RT - 55 LF REQD.
STA. 1114+87 - STA. 1115+77, RT - 95 LF REQD.

(85) REMOVING GUARDRAIL
STA. 1114+78 - STA. 1115+18, LT - 40 LF REQD.
STA. 1114+96 - STA. 1115+38, RT - 42 LF REQD.



100 REMOVING GUARDRAIL
STA. 1121+29 - STA. 1121+72, RT - 43 LF REQD.
STA. 1122+35 - STA. 1122+74, LT - 39 LF REQD.

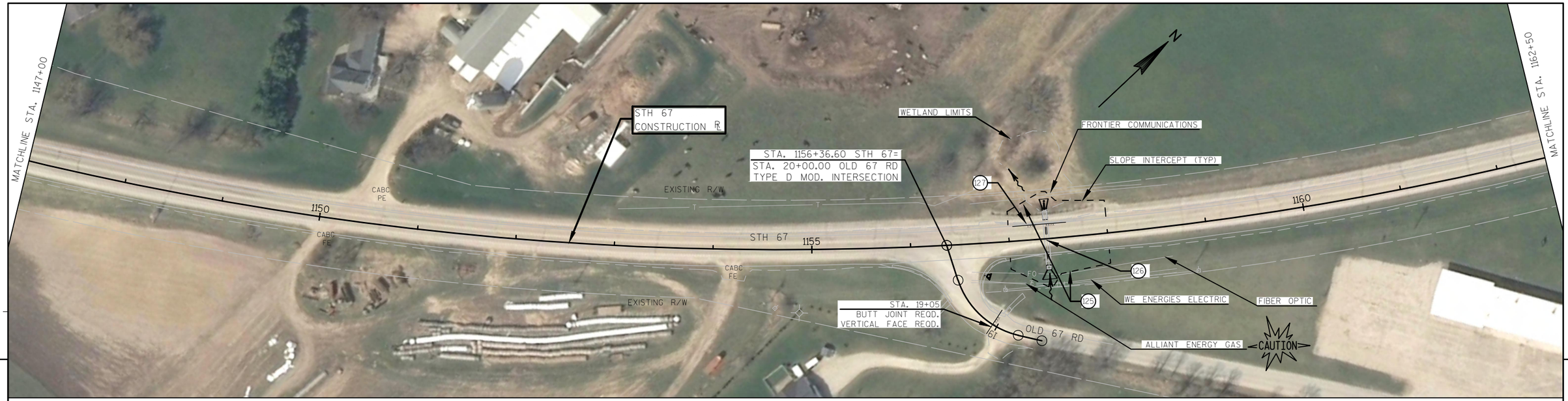
101 REMOVING GUARDRAIL
STA. 1127+00 - STA. 1127+57, RT - 57 LF REQD.



104 STA. 1132+60
EXISTING 24-INCH CMCP
APRON ENDWALLS FOR CULVERT PIPE 24-INCH - 1 EA REQD. (NORTH END)
CULVERT PIPE LINERS 24-INCH - 48 LF REQD.

105 STA. 1142+77
EXISTING 24-INCH CMCP
CULVERT PIPE LINERS 24-INCH - 70 LF REQD.

PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	PLAN: MAINLINE	SHEET 83 E

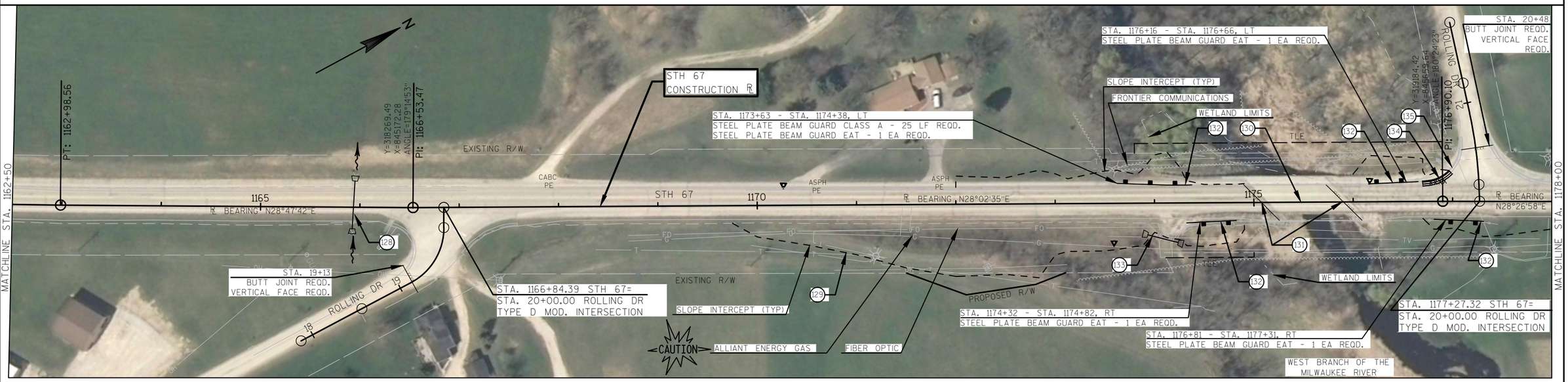


(125) STA. 1157+00 - STA. 1158+00, RT & LT
FLATTEN EXISTING SLOPE

(126) STA. 1157+38
EXTEND EXISTING 42-INCH X 54-INCH
REINFORCED BOX CULVERT
SEE CONSTRUCTION DETAILS

(127) REMOVING GUARDRAIL
STA. 1156+87 - STA. 1157+90, LT - 103 LF REQD.
REMOVE EXISTING RETAINING WALL
STA. 1157+21 - STA. 1157+51, LT

REMOVE EXCESS PAVED SHOULDER LT



(128) STA. 1165+90
EXISTING 30-INCH CMCP
REMOVING SMALL PIPE CULVERTS - 1 EA REQD.
CULVERT PIPE CLASS IV 30-INCH - 48 LF REQD.
APRON ENDWALLS FOR CULVERT PIPE 30-INCH - 2 EA REQD.
SAWING ASPHALT AND SAWING CONCRETE REQD.

(129) STA. 1169+75 - STA. 1174+32, RT
FLATTEN EXISTING SLOPE

(130) NET EXCEPTION TO CENTERLINE LENGTH
STA. 1175+07.66 - STA. 1175+90.18
AT STRUCTURE B-20-110

(131) STA. 1175+90.18 - BUTT JOINT REQD.
STA. 1175+07.66 - BUTT JOINT REQD.

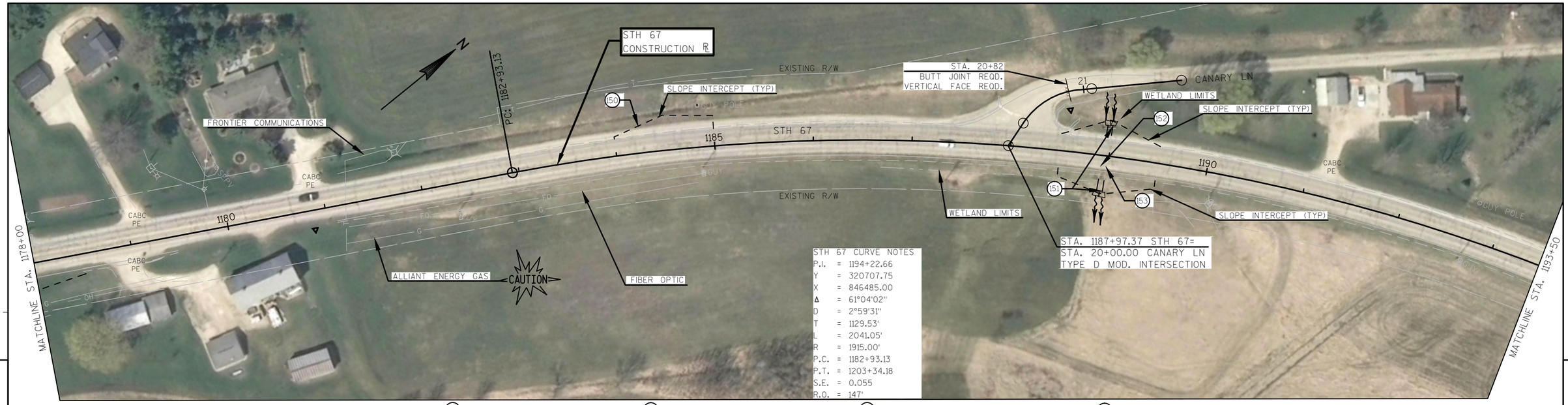
VERTICAL FACE REQD.

(132) REMOVING GUARDRAIL
STA. 1173+98 - STA. 1174+38, LT - 40 LF REQD.
STA. 1176+16 - STA. 1176+80, LT - 65 LF REQD.
STA. 1174+23 - STA. 1174+82, RT - 65 LF REQD.
STA. 1176+81 - STA. 1177+46, RT - 65 LF REQD.

(133) STA. 1174+13, RT
REMOVING SMALL CULVERT PIPE - 1 EA REQD.
CULVERT PIPE CLASS III-A 18-INCH - 32 LF REQD.
APRON ENDWALLS FOR CULVERT PIPE 18-INCH - 2 EA REQD.

(134) REMOVING CURB AND GUTTER
STA. 1176+70 - STA. 1176+95, LT - 30 LF REQD.
SAW CUT REQD.

(135) CONCRETE CURB AND GUTTER 6-INCH SLOPED
36-INCH TYPE D (DRIVEWAY CUT CURB REQD.)
STA. 1176+70 - STA. 1176+95, LT - 30 LF REQD.



STH 67 CURVE NOTES		
P.I.	=	1194+22.66
Y	=	320707.75
X	=	846485.00
Δ	=	61°04'02"
D	=	2°59'31"
T	=	1129.53'
L	=	2041.05'
R	=	1915.00'
P.C.	=	1182+93.13
P.T.	=	1203+34.18
S.E.	=	0.055
R.O.	=	147'

(150) STA. 1184+00 - STA. 1185+00, LT
FLATTEN EXISTING SLOPE

(151) STA. 1188+50 - STA. 1189+50, LT & RT
FLATTEN EXISTING SLOPE

(152) STA. 1188+92
EXISTING 30-INCH RCCP
EXTEND 10 LF NORTH
EXTEND 12 LF SOUTH
APRON ENDWALLS FOR CULVERT PIPE
REINFORCED CONCRETE 30-INCH - 2 EA REQD.
CONCRETE COLLARS FOR PIPE - 2 EA REQD.

(153) STA. 1188+97
EXISTING 30-INCH RCCP
EXTEND 10 LF NORTH
EXTEND 12 LF SOUTH
APRON ENDWALLS FOR CULVERT PIPE
REINFORCED CONCRETE 30-INCH - 2 EA REQD.
CONCRETE COLLARS FOR PIPE - 2 EA REQD.



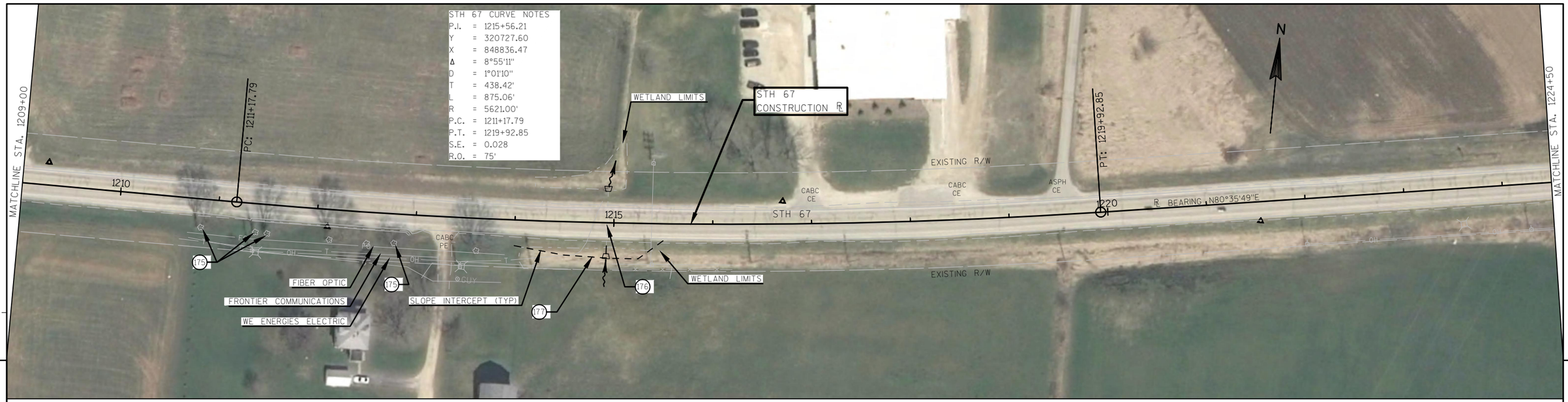
(154) STA. 1195+25 - STA. 1197+00, LT
FLATTEN EXISTING SLOPE

(155) STA. 1197+50 - STA. 1198+10, LT
FLATTEN EXISTING SLOPE

(156) STA. 1196+33
EXISTING 30-INCH CMCP
EXTEND 10 LF NORTH
APRON ENDWALLS FOR CULVERT PIPE SALVAGED
30-INCH - 1 EA REQD. (NORTH END)
CULVERT PIPE LINERS 30-INCH - 58 LF REQD.

(157) STA. 1198+05
EXISTING 30-INCH RCCP
EXTEND 10 LF NORTH
APRON ENDWALLS FOR CULVERT PIPE REINFORCED
CONCRETE 30-INCH - 1 EA REQD. (NORTH END)
CONCRETE COLLARS FOR PIPE - 1 EA REQD.

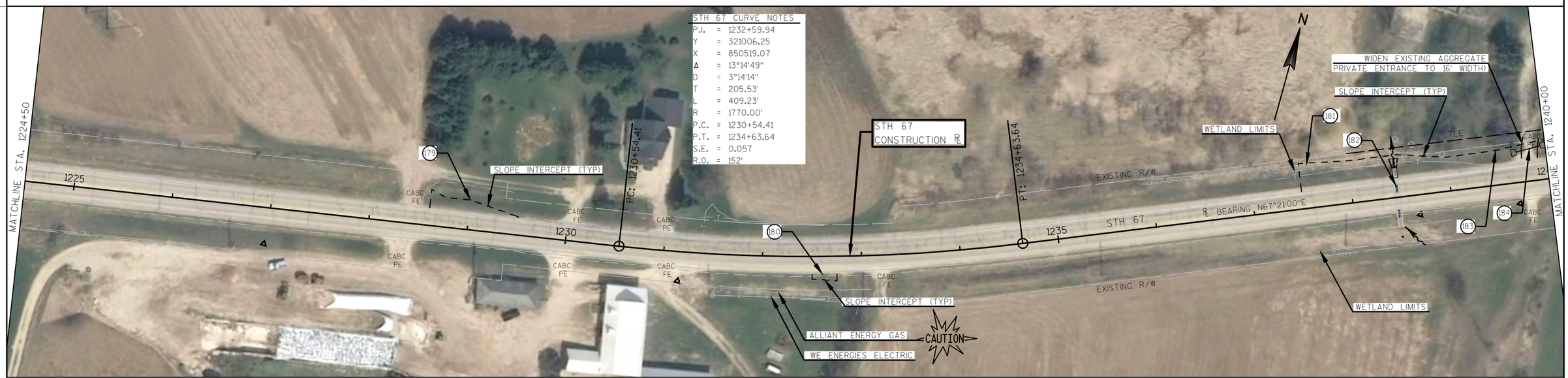
PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	PLAN: MAINLINE	SHEET 85 E



175 CLEARING AND GRUBBING REQD. FOR TREES WITHIN CLEARZONE
STA. 1210+84, RT - 32 ID
STA. 1211+39, RT - 20 ID
STA. 1211+51, RT - 42 ID
STA. 1212+79, RT - 20 ID

176 STA. 1214+91
EXISTING 30-INCH RCCP
EXTEND 8 LF SOUTH
APRON ENDWALLS FOR CULVERT PIPE SALVAGED
30-INCH - 1 EA REQD. (NORTH END)
APRON ENDWALLS FOR CULVERT PIPE REINFORCED
CONCRETE 30-INCH - 1 EA REQD. (SOUTH END)
CONCRETE COLLARS FOR PIPE - 1 EA REQD. (SOUTH END)

177 STA. 1214+00 - STA. 1215+50, RT
FLATTEN EXISTING SLOPE



179 STA. 1228+60 - STA. 1229+50, LT
FLATTEN EXISTING SLOPE

180 STA. 1232+50 - STA. 1232+75, RT
FLATTEN EXISTING SLOPE

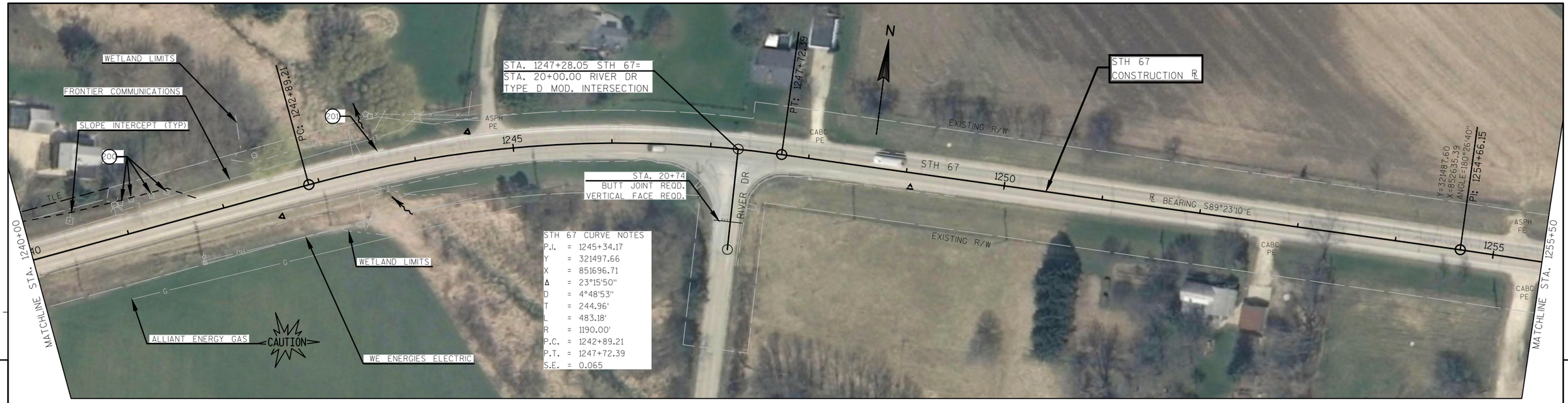
181 SALVAGE AND RESET FENCE
STA. 1237+40 - STA. 1238+92, LT - 155 LF REQD.

182 STA. 1238+46 - EXTEND EXISTING 54-INCH X 42-INCH REINFORCED CONCRETE BOX CULVERT
SEE CONSTRUCTION DETAILS

183 STA. 1237+50 - STA. 1241+75, LT
FLATTEN EXISTING SLOPE

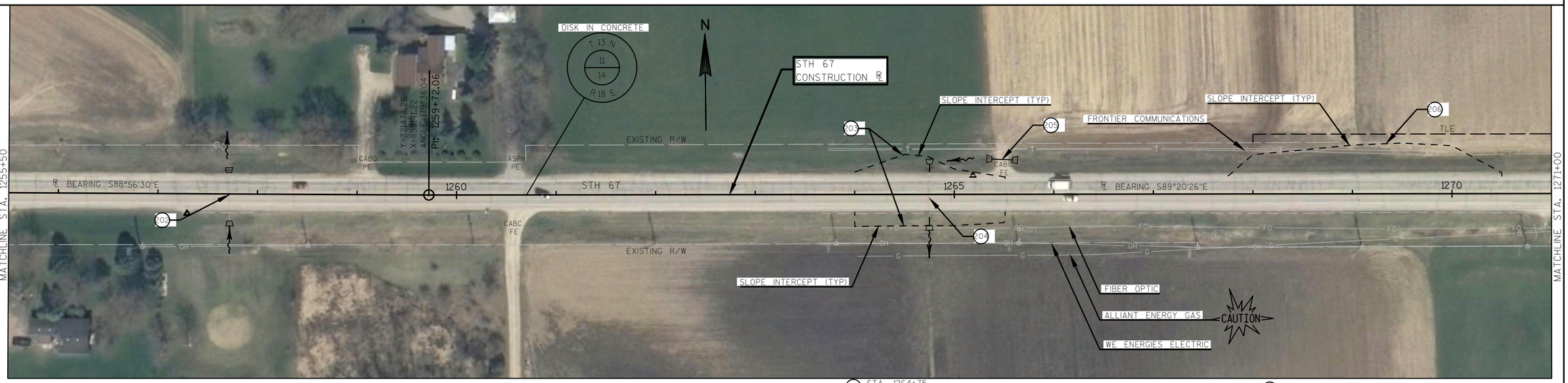
184 STA. 1239+80
REMOVING SMALL CULVERT PIPE - 1 EA REQD.
CULVERT PIPE CLASS III-A 18-INCH - 25 LF REQD.
APRON ENDWALLS FOR CULVERT PIPE 18-INCH - 2 EA REQD.

PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	PLAN: MAINLINE	SHEET 86 E



200 CLEARING AND GRUBBING REQD.
STA. 1241+00, LT - 56 ID
STA. 1241+12, LT - 16 ID
STA. 1241+33, LT - 17 ID
STA. 1241+49, LT - 18 ID

201 STA. 1243+66
EXISTING 30-INCH CMCP
CULVERT PIPE LINERS 30-INCH - 47 LF REQD.



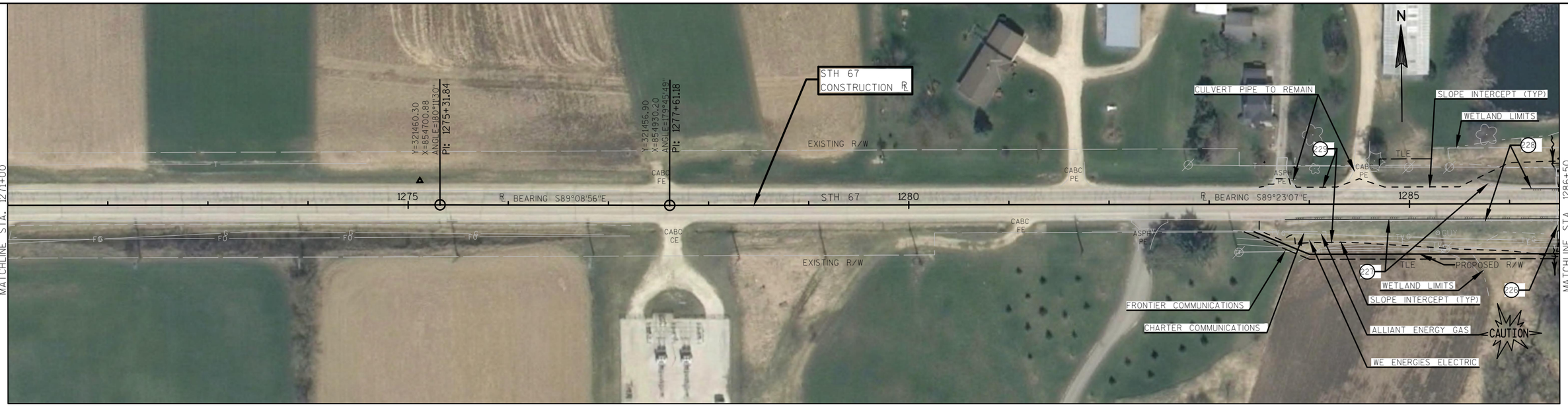
202 STA. 1257+70
EXISTING 24-INCH CMCP
APRON ENDWALLS FOR CULVERT PIPE 24-INCH - 2 EA REQD.
CULVERT PIPE LINERS 24-INCH - 42 LF REQD.

203 STA. 1264+00 - STA. 1265+50, LT & RT
FLATTEN EXISTING SLOPE

204 STA. 1264+75
EXISTING 24-INCH CMCP
EXTEND 8 LF NORTH
EXTEND 8 LF SOUTH
APRON ENDWALLS FOR CULVERT PIPE SALVAGED 24-INCH - 1 EA REQD. (SOUTH END)
APRON ENDWALLS FOR CULVERT PIPE 24-INCH - 1 EA REQD. (NORTH END)
CONCRETE COLLARS FOR PIPE - 1 EA REQD. (FIRST JOINT BEYOND AEW SOUTH END)
CULVERT PIPE LINERS 24-INCH - 64 LF REQD.

205 STA. 1265+48, LT
REMOVING SMALL CULVERT PIPE - 1 EA REQD.
CULVERT PIPE CORRUGATED STEEL 24-INCH - 20 LF REQD.
APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 24-INCH 6 TO 1 - 2 EA REQD.

206 STA. 1267+75 - STA. 1270+50, LT
FLATTEN EXISTING SLOPE



(226) STA. 1286+50
EXTEND EXISTING 48-INCH X 48-INCH REINFORCED CONCRETE BOX CULVERT
SEE CONSTRUCTION DETAILS

(227) REMOVING GUARDRAIL
STA. 1283+78 - STA. 1290+16, RT - 639 LF REQD.
STA. 1285+71 - STA. 1287+12, LT - 151 LF REQD.

(228) REMOVE EXISTING RETAINING WALL
STA. 1286+30 - STA. 1289+32, RT
STA. 1286+30 - STA. 1286+83, LT

REMOVE EXCESS PAVED SHOULDER LT & RT

(229) STA. 1283+50 TO STA. 1290+50, LT & RT
FLATTEN EXISTING SLOPES



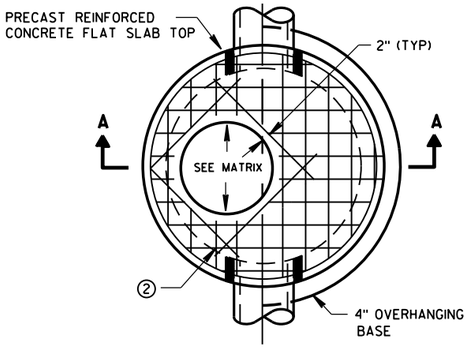
(230) REMOVING GUARDRAIL
STA. 1287+51 - STA. 1288+52, LT - 113 LF REQD.

(231) EXISTING GUARDRAIL TO REMAIN
STA. 1295+58 - STA. 1296+16, LT

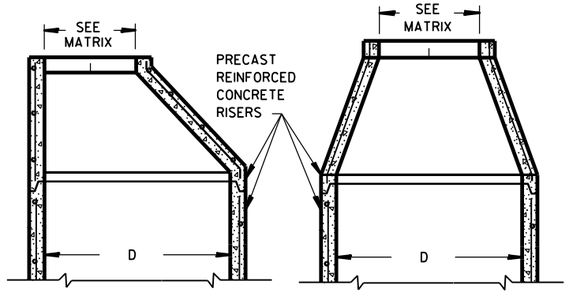
PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	PLAN: MAINLINE	SHEET 88 E

Standard Detail Drawing List

08B09-02	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08D01-20A	CONCRETE CURB & GUTTER
08D01-20B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D05-19A	CURB RAMPS TYPES 1 AND 1-A
08D05-19B	CURB RAMPS TYPES 2 AND 3
08D05-19C	CURB RAMPS TYPES 4A AND 4A1
08D05-19D	CURB RAMPS TYPE 4B AND 4B1
08D05-19E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-19F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-19G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F07-05	STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE DRAINS
13A11-03A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-03B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
14B15-11A	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-11B	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-11C	STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS
14B24-09A	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-09B	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-09C	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C08-19A	LONGITUDINAL MARKING (MAINLINE)
15C08-19B	PAVEMENT MARKING (TURN LANES)
15C08-19C	PAVEMENT MARKING (TURN LANES)
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-06	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-05A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C35-03A	PAVEMENT MARKING (INTERSECTIONS)
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D30-04A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-04B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-04C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS
15D39-02	TRAFFIC CONTROL, DROP-OFF SIGNING

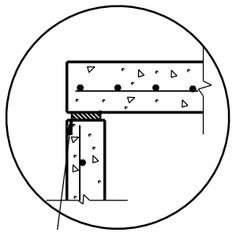


PLAN VIEW CIRCULAR OPENING

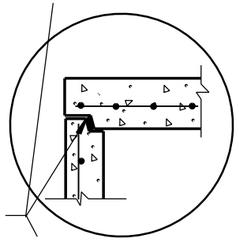


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

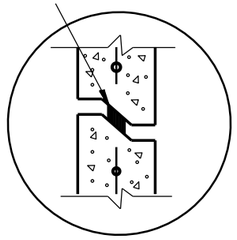


TOP WITH PLAIN END JOINT



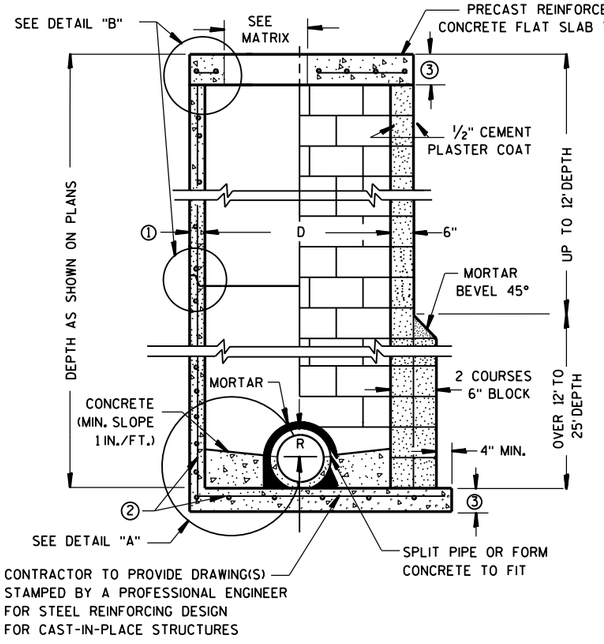
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



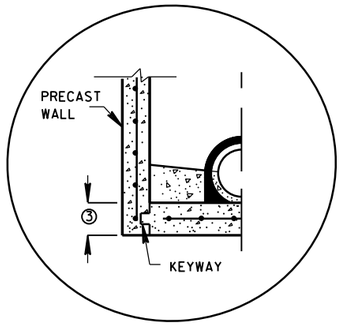
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

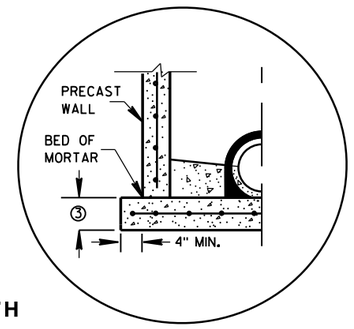


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

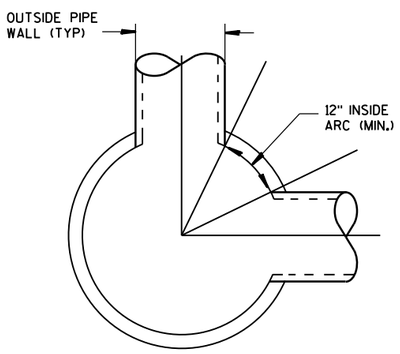


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE 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 FOUNDATION 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.

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 SEPARATE 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

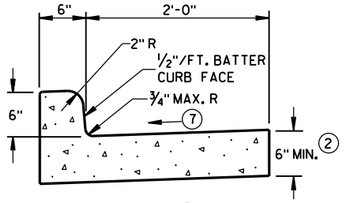
APPROVED

Sept., 2016
DATE

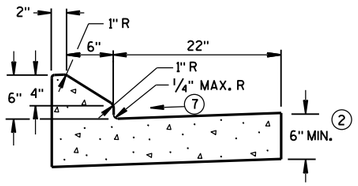
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERV

FHWA

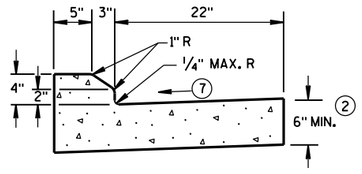
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S.D.D. 8 B 9-2



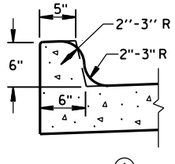
TYPES A (1) & D



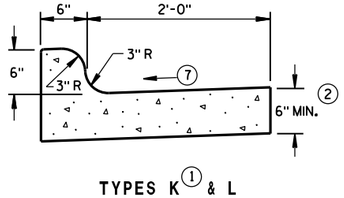
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

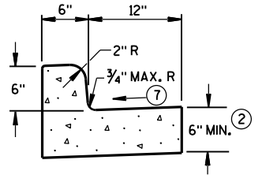


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



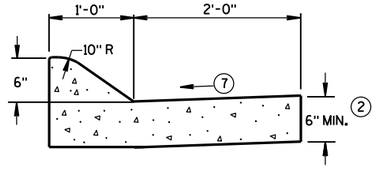
TYPES K (1) & L

CONCRETE CURB & GUTTER 30"

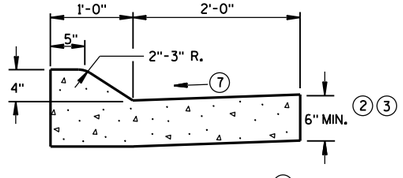


TYPES A (1) & D

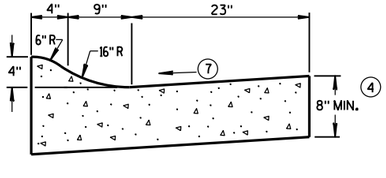
CONCRETE CURB & GUTTER 18"



6" SLOPED CURB TYPES A (1) & D

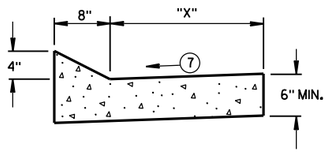


4" SLOPED CURB TYPES A (1) & D



4" SLOPED CURB TYPES R (1) & T (5)

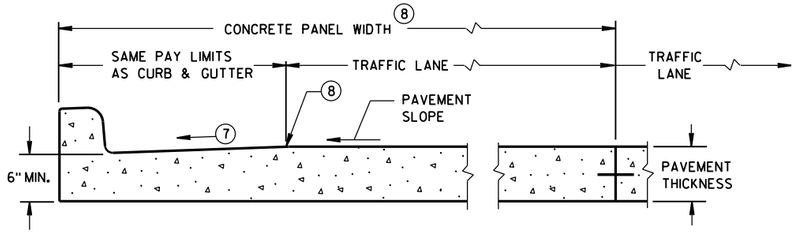
CONCRETE CURB & GUTTER 36"



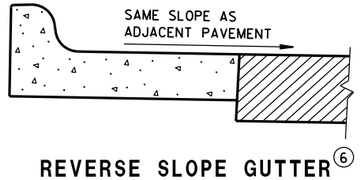
TYPES TBT & TBTT (1)

CONCRETE CURB & GUTTER

TBT & TBTT	"X"
30"	22"
36"	28"



PARTIAL SECTION OF PAVEMENT *
WITH INTEGRAL CURB & GUTTER



REVERSE SLOPE GUTTER (6)
(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.

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, R AND TBTT.

(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) USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

(4) 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.

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

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

(7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.

(8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'

* BIKE LANE IS NOT SHOWN.

CONCRETE CURB & GUTTER

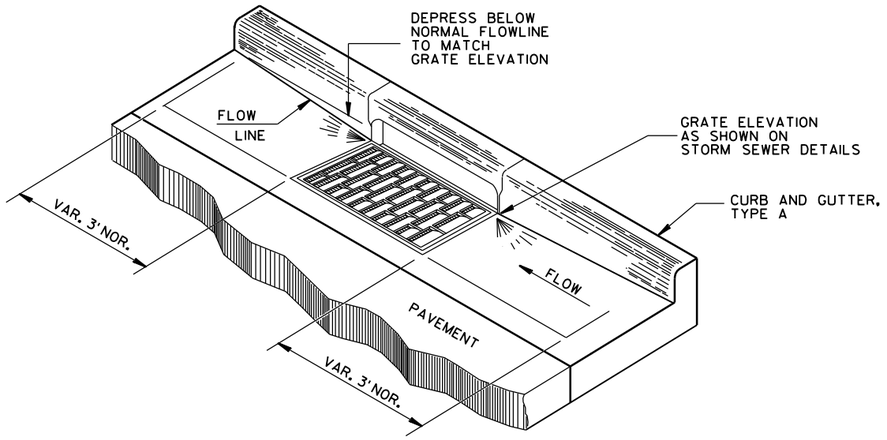
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 8 D 1-20a

6

S.D.D. 8 D 1-20a



DETAIL OF CURB AND GUTTER AT INLETS

(TYPE H INLET COVER SHOWN)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

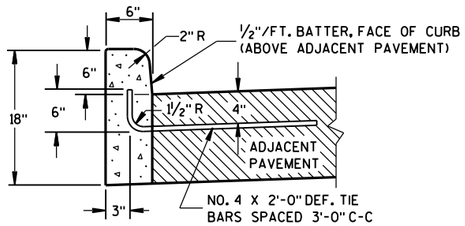
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

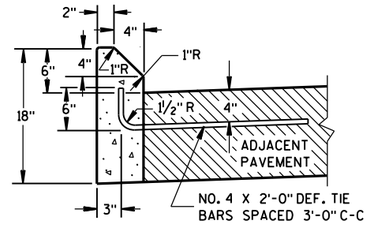
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

(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.

(9) REFER TO SDD 8D18 AND SDD 8D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.

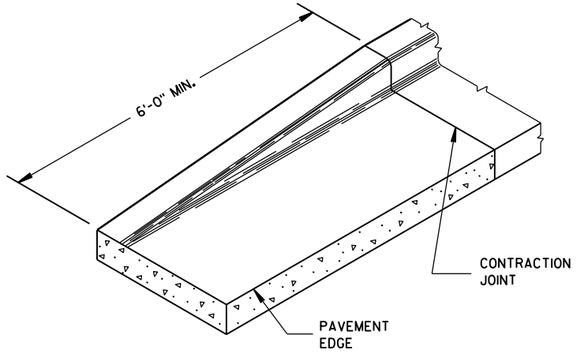


TYPES A(1) & D

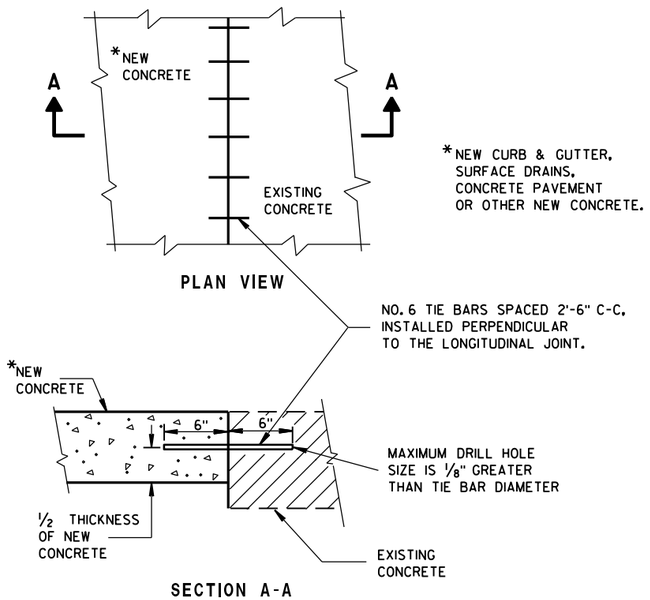


TYPES G(1) & J

CONCRETE CURB



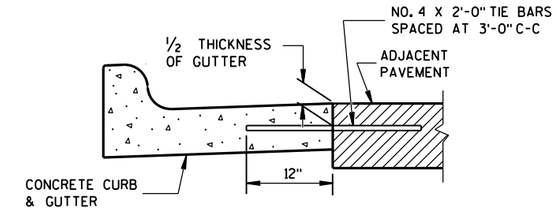
END SECTION CURB & GUTTER



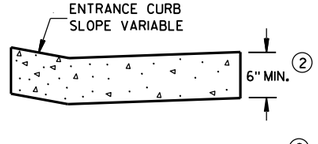
PLAN VIEW

SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT



TYPICAL TIE BAR LOCATION (1)



DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

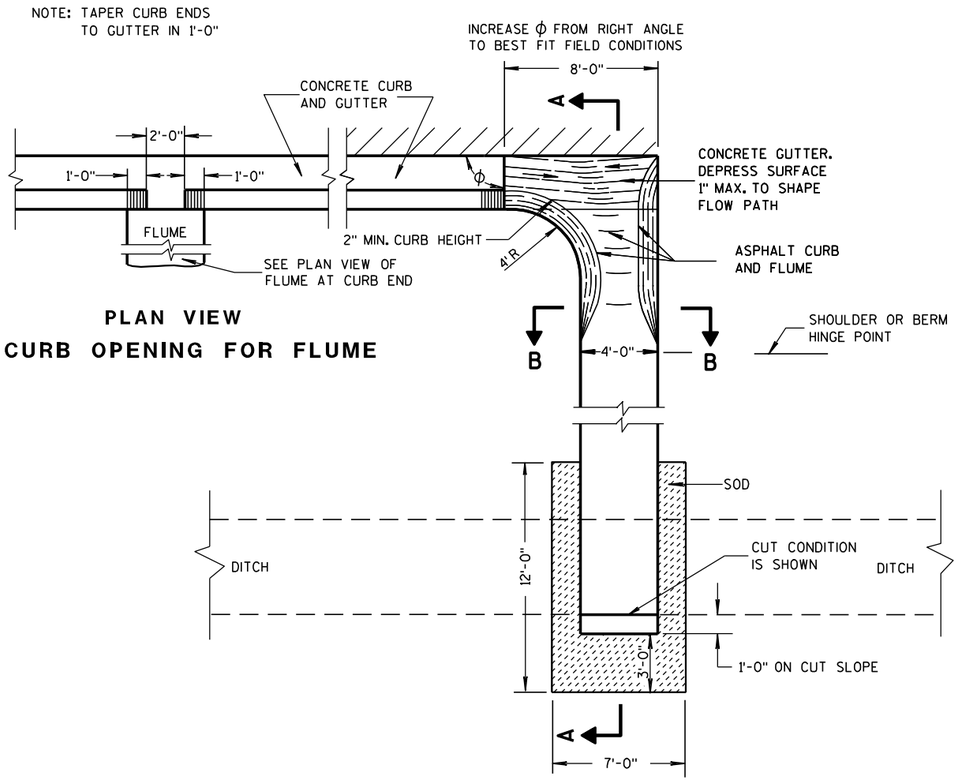
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2017 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVISOR
92 — ENT
FHWA

6

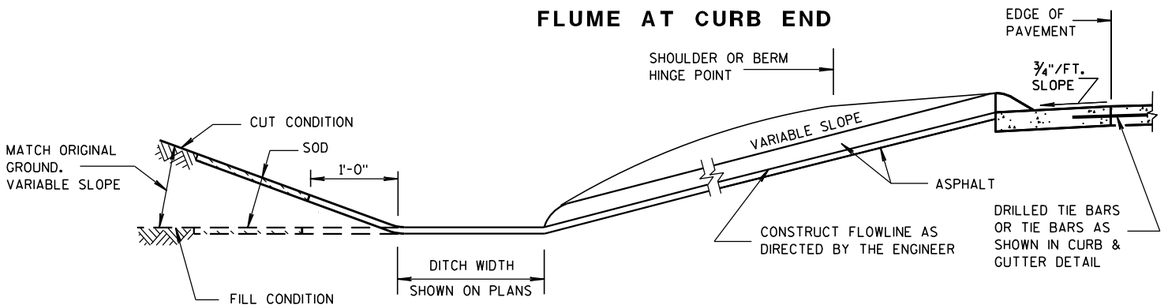
S.D.D. 8 D 1-20b

ASPHALTIC FLUME

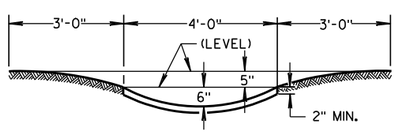


PLAN VIEW
CURB OPENING FOR FLUME

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.

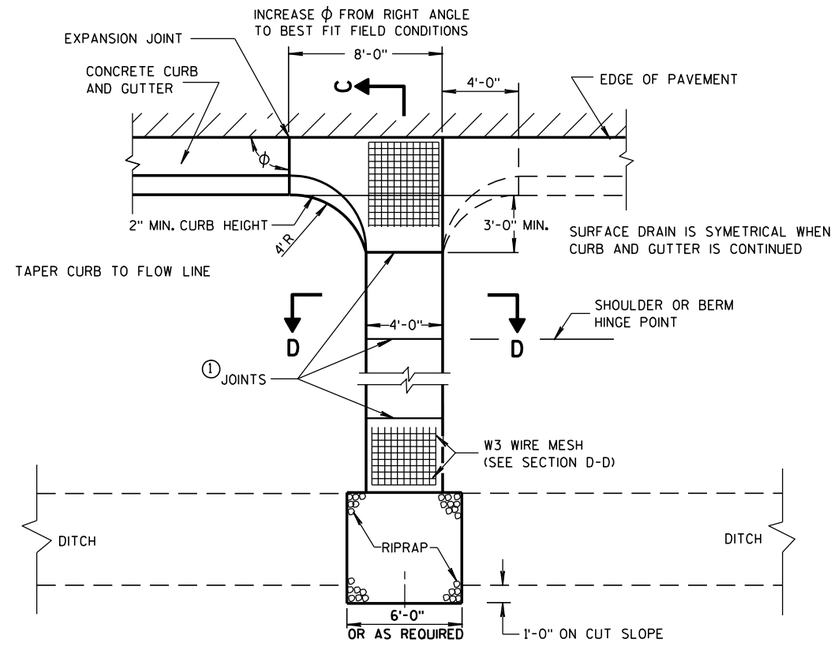
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE 1/8 TO 1/4 INCH WIDE BY 1 1/2 INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

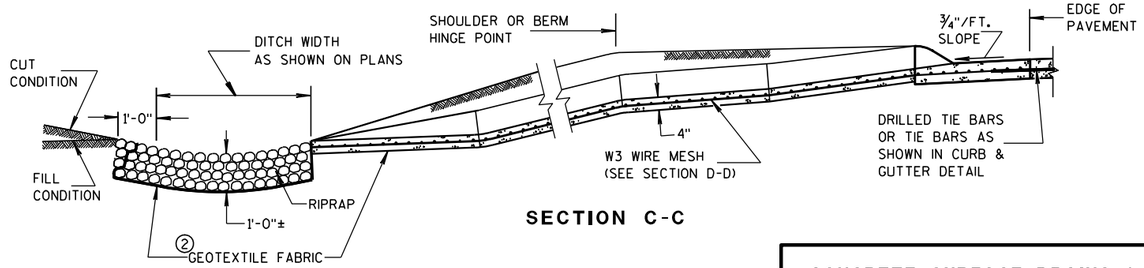
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

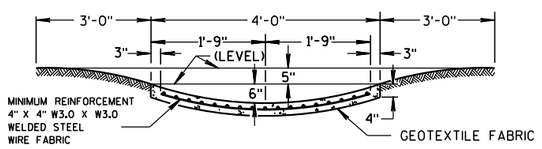
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C

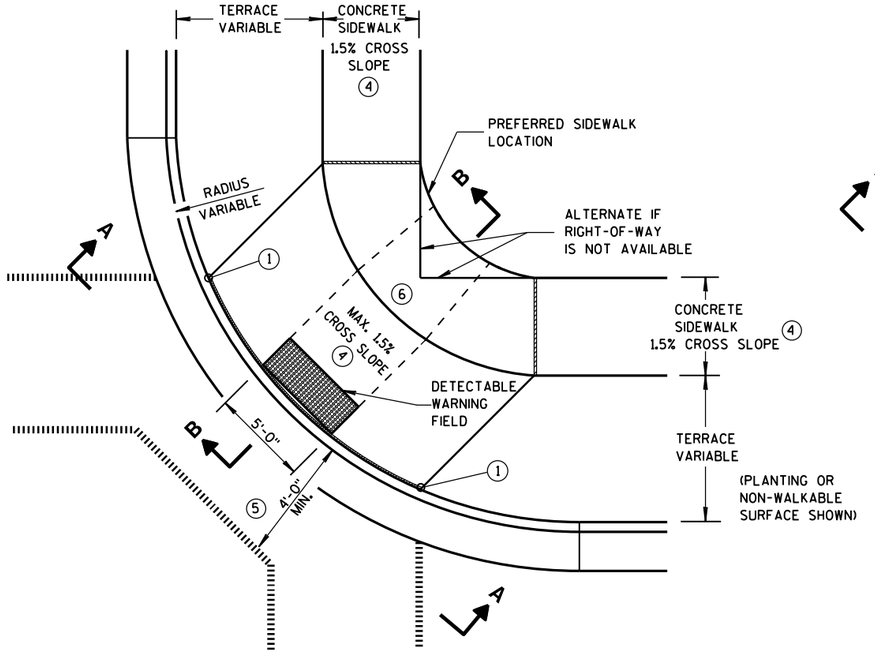


SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

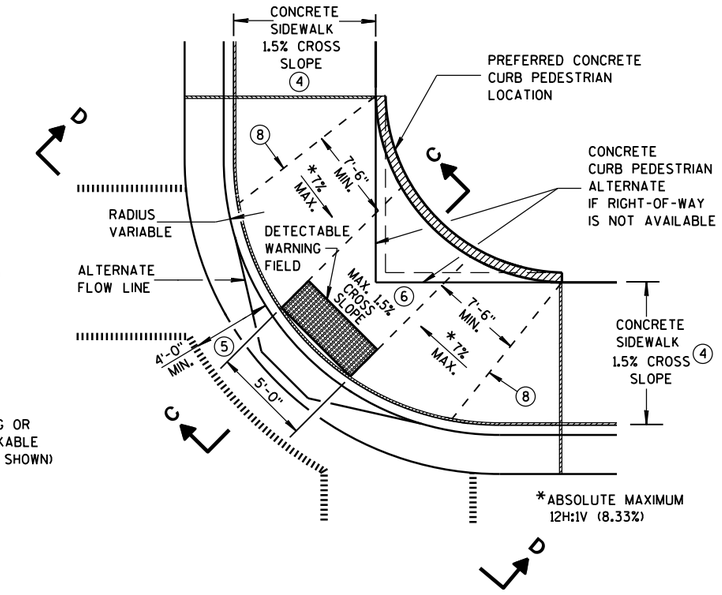
APPROVED
9-4-08 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
93
MENT
FHWA



PLAN VIEW

TYPE 1 RAMP

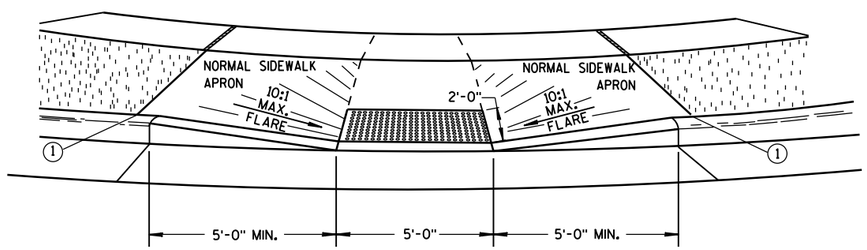
(CENTER OF CORNER RADIUS)



PLAN VIEW

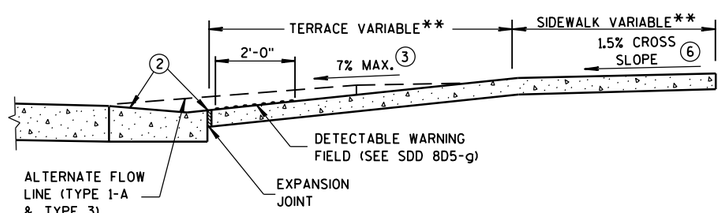
TYPE 1-A RAMP

(NO TERRACE)

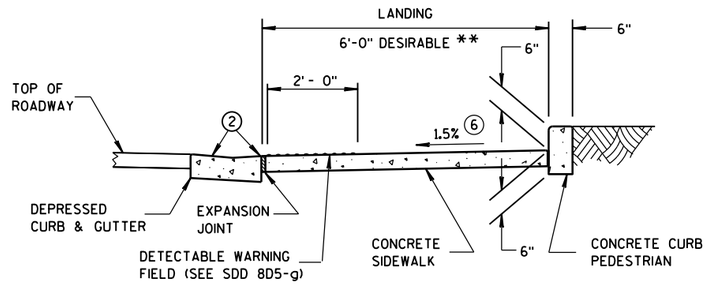


VIEW A-A

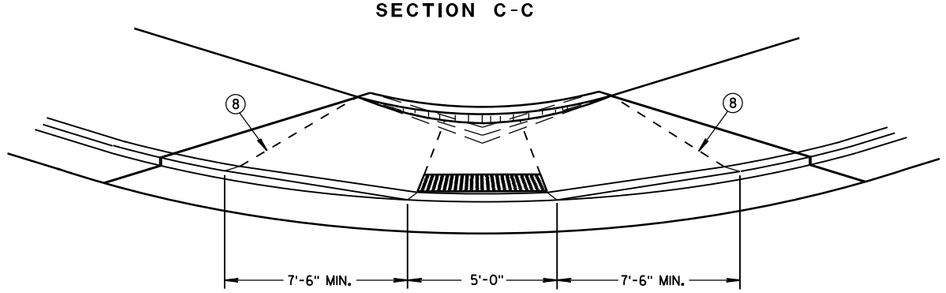
** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B-B



SECTION C-C



VIEW D-D

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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.

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FIELD SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAL FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD".

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

(1) THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB. POINT LOCATION MAY BE ADJUSTED TO ALIGN WITH BEGINNING OF FULL-HEIGHT CURB IF THIS DISTANCE IS SHORT.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA. (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

LEGEND

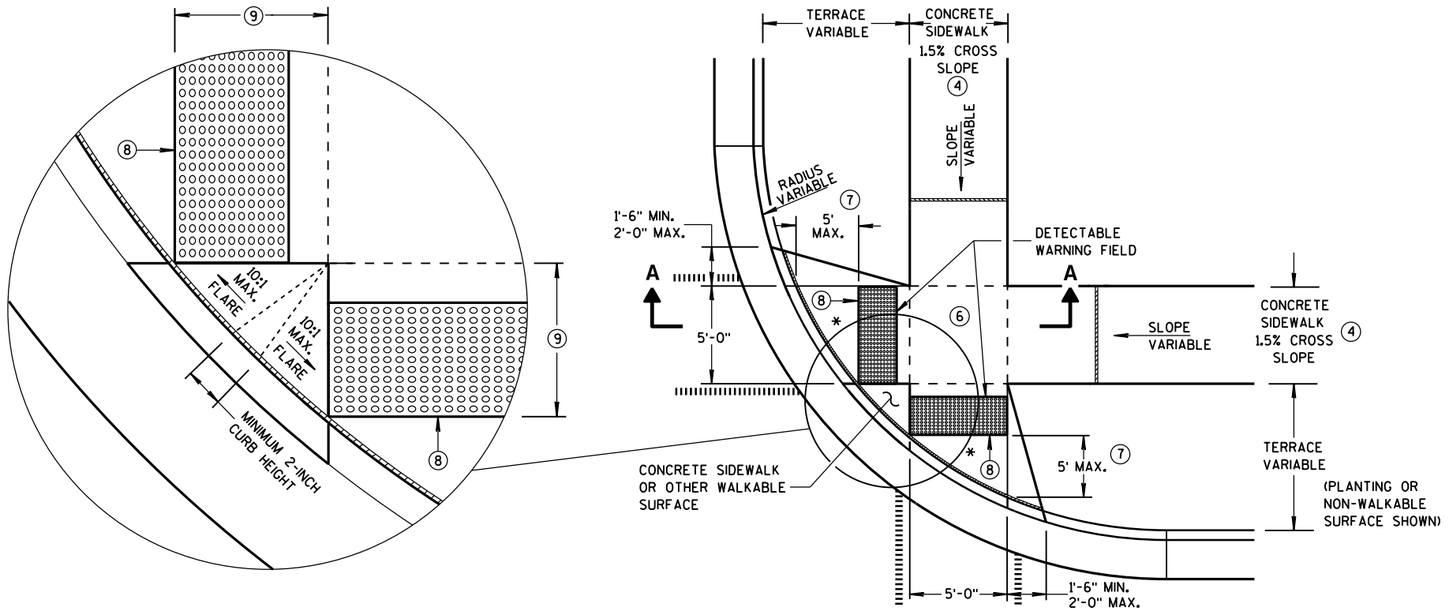
- 1/2" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT

CURB RAMPS TYPES 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

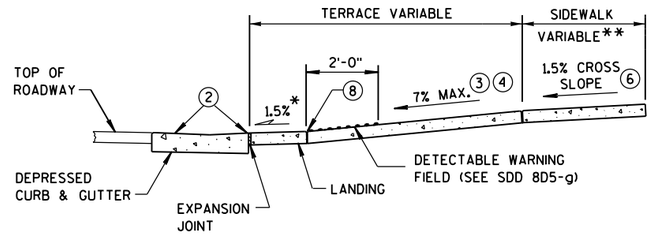
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S.D.D. 8 D 5-19a



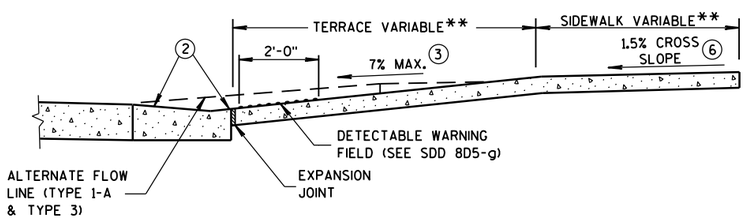
PLAN VIEW
TYPE 2 RAMP
(ON LINE WITH SIDEWALK)

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK



SECTION A-A

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B-B

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

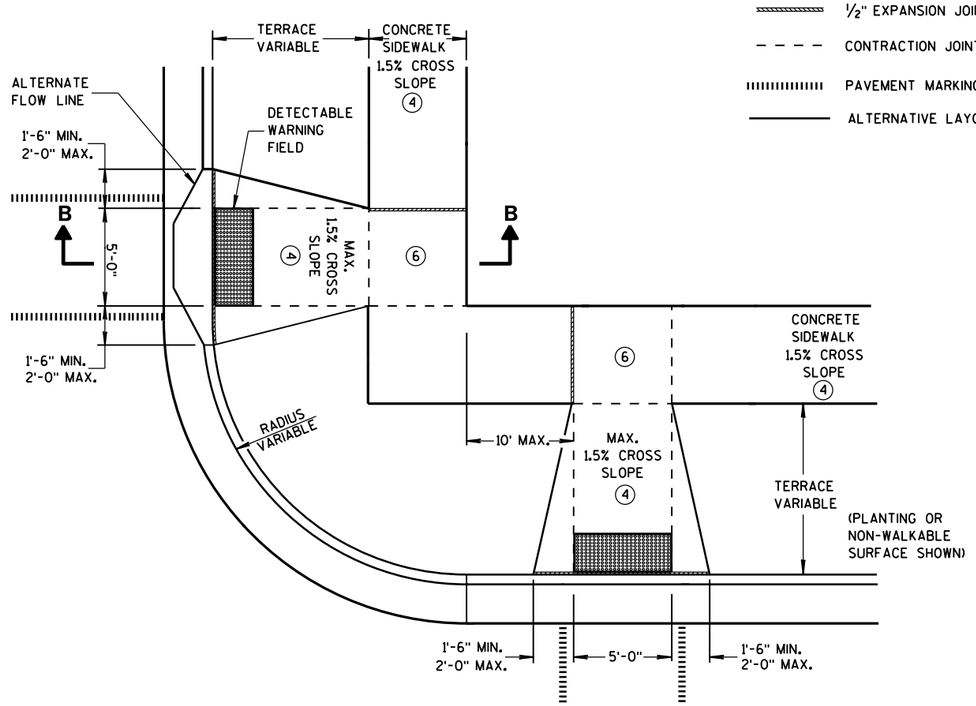
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(9) WHEN THIS DISTANCE IS LESS THAN 6'-0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



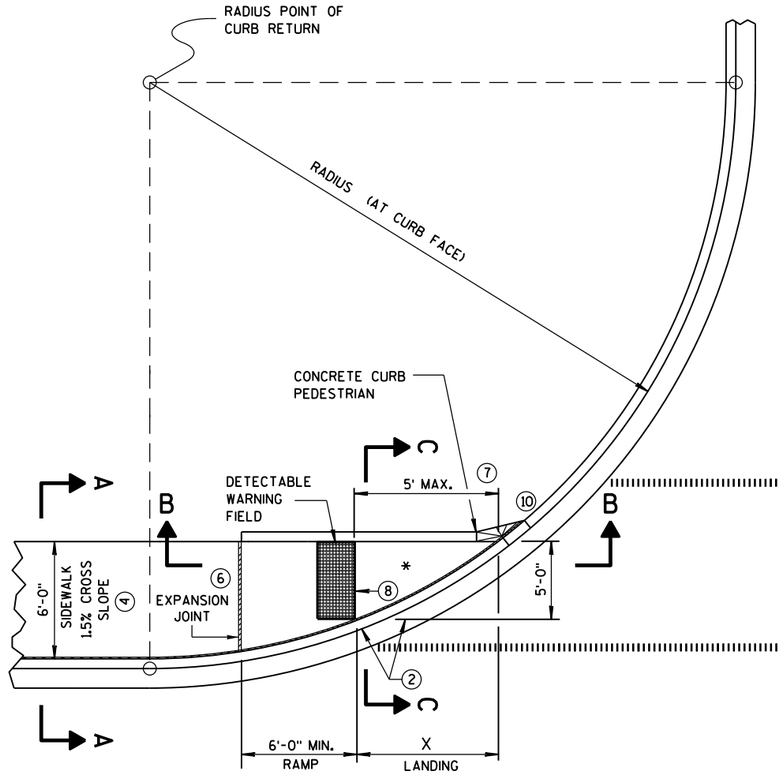
PLAN VIEW
TYPE 3 RAMP
(OUTSIDE OF CROSSWALK AREA)

CURB RAMPS TYPES 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6

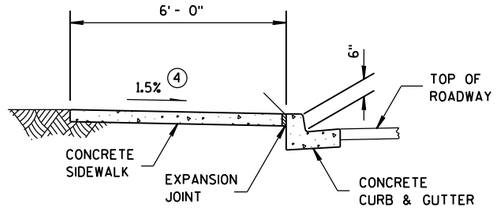
S.D.D. 8 D 5-19b



CURB RAMP TYPE 4A
PLAN VIEW

RADIUS (AT CURB FACE)	X
10 FEET	4'-7"
15 FEET	6'-5½"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A-A FOR TYPE 4A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

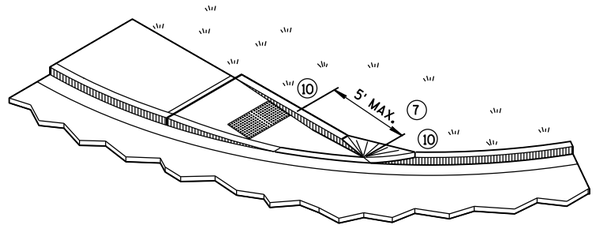
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

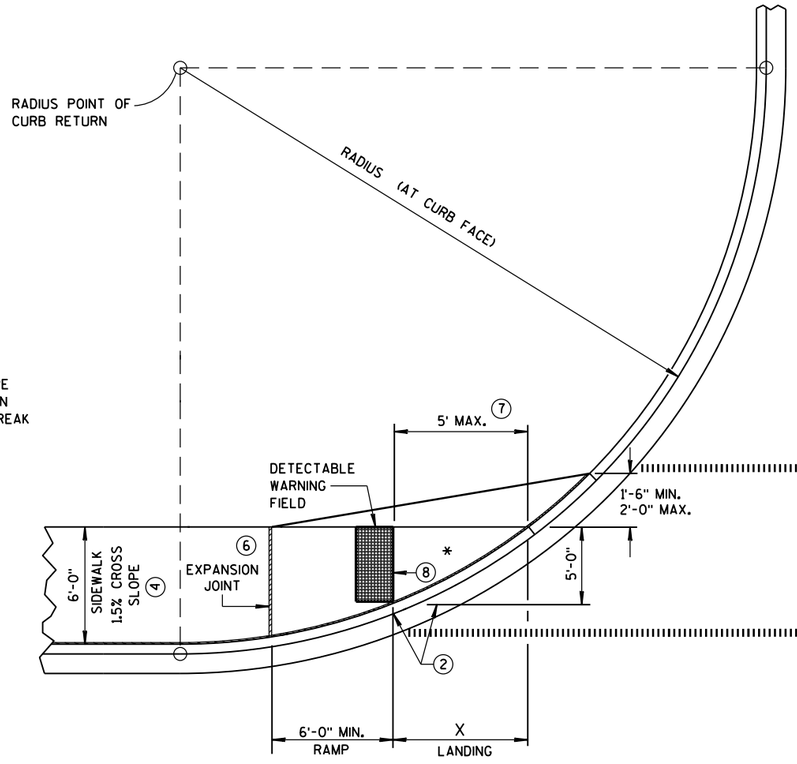
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

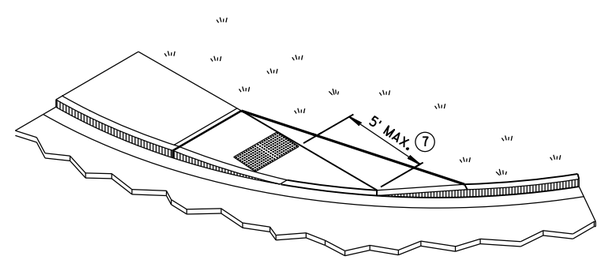


ISOMETRIC VIEW FOR TYPE 4A

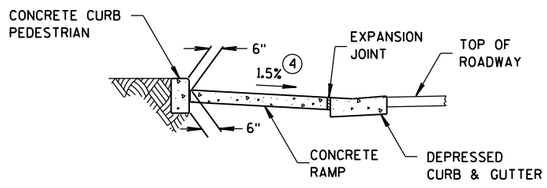


* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

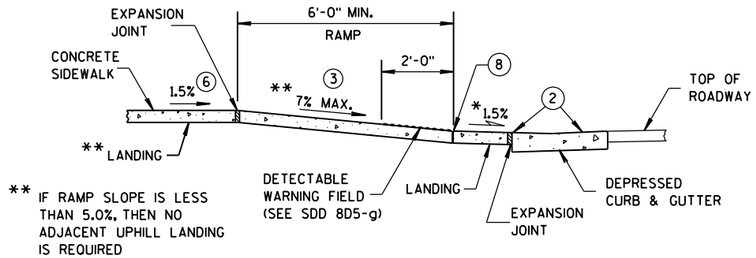
CURB RAMP TYPE 4A1
PLAN VIEW



ISOMETRIC VIEW FOR TYPE 4A1



SECTION C-C FOR TYPE 4A



** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

SECTION B-B FOR TYPE 4A

LEGEND

½" EXPANSION JOINT-SIDEWALK

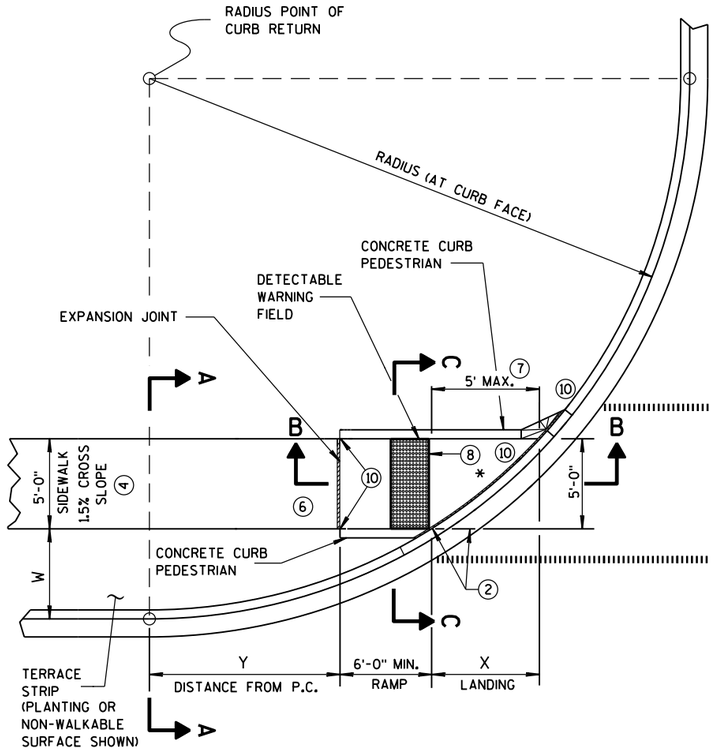
CONTRACTION JOINT FIELD LOCATED

PAVEMENT MARKING CROSSWALK (WHITE)

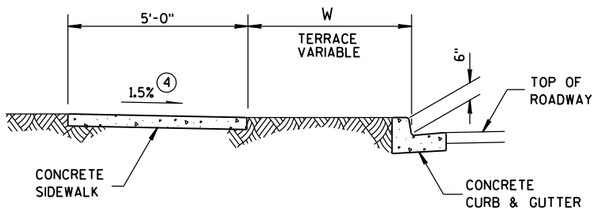
CURB RAMPS TYPES 4A AND 4A1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

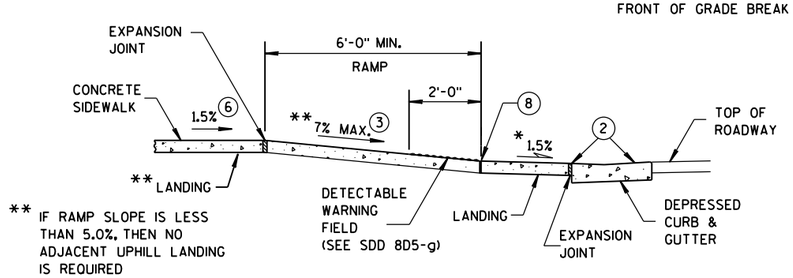
S.D.D. 8 D 5-19c



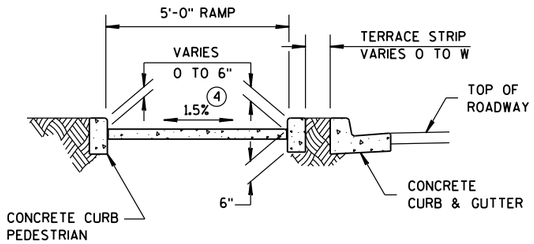
CURB RAMP TYPE 4B
PLAN VIEW



SECTION A-A FOR TYPE 4B



SECTION B-B FOR TYPE 4B



SECTION C-C FOR TYPE 4B

RADIUS (AT CURB FACE)	W = 3'-0"		W = 4'-0"		W = 5'-0"		W = 6'-0"		W = 7'-0"		W = 8'-0"		W = 9'-0"		W = 10'-0"	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
10 FEET	2'-10¼"	0'-5"	2'-1"	1'-4½"	1'-5"	2'-1"	0'-10"	2'-7½"	0'-3¼"	3'-0¼"						
15 FEET	4'-6¾"	2'-1¾"	3'-9"	3'-5¼"	3'-1¼"	4'-6"	2'-6¾"	5'-4½"	2'-1"	6'-1"	1'-8"	6'-8½"	1'-3¼"	7'-2½"	0'-10¾"	7'-7¼"
20 FEET	5'-9¾"	3'-6½"	4'-11½"	5'-1¾"	4'-3¼"	6'-5½"	3'-8¾"	7'-7"	3'-3"	8'-6½"	2'-10"	9'-4½"	2'-5½"	10'-1¼"	2'-1¼"	10'-9"
30 FEET			6'-9¼"	7'-11¼"	6'-0¼"	9'-8"	5'-5"	11'-1¾"	4'-10¾"	12'-5¾"	4'-5½"	13'-7¾"	4'-0¾"	14'-8½"	3'-8½"	15'-8¼"
40 FEET									6'-1¾"	15'-8½"	5'-8"	17'-2"	5'-3"	18'-5¾"	4'-10¾"	19'-8¼"
50 FEET															5'-10¼"	23'-2"

INTERMEDIATE RADII CAN BE INTERPOLATED
DIMENSION "Y" IS CALCULATED BASED ON 6'-0" RAMP LENGTH
DIMENSION "X" IS CALCULATED BASED ON 5'-0" SIDEWALK WIDTH

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

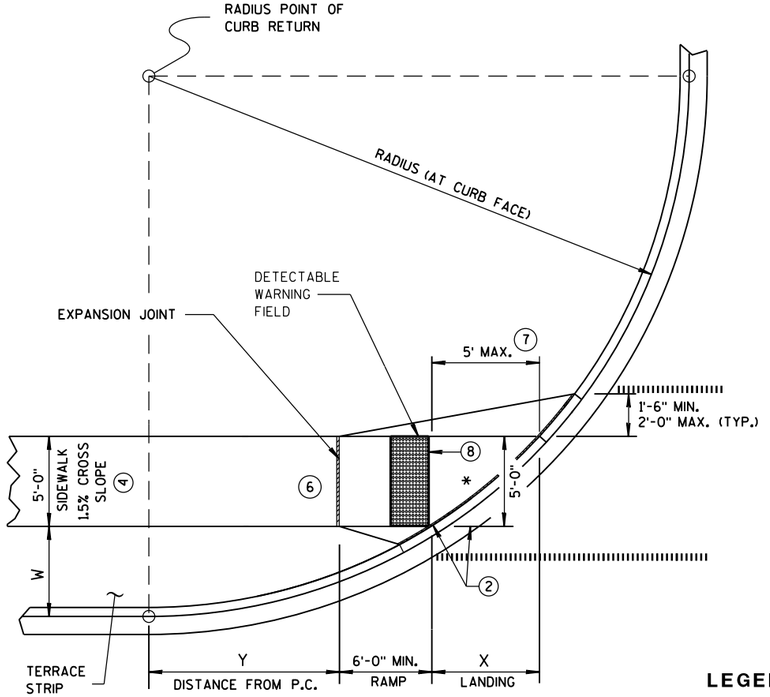
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

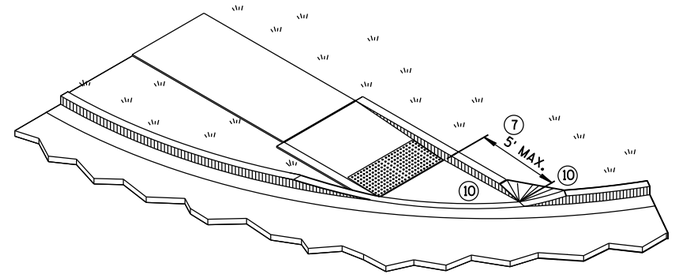
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

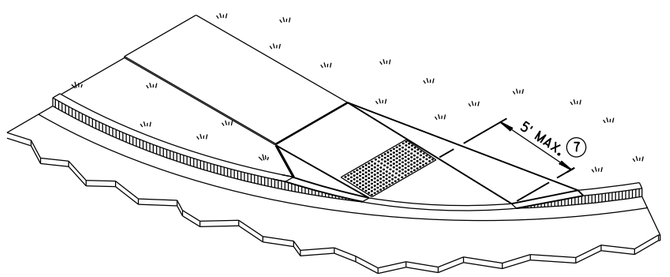
(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



CURB RAMP TYPE 4B1
PLAN VIEW



ISOMETRIC VIEW FOR TYPE 4B



ISOMETRIC VIEW FOR TYPE 4B1

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

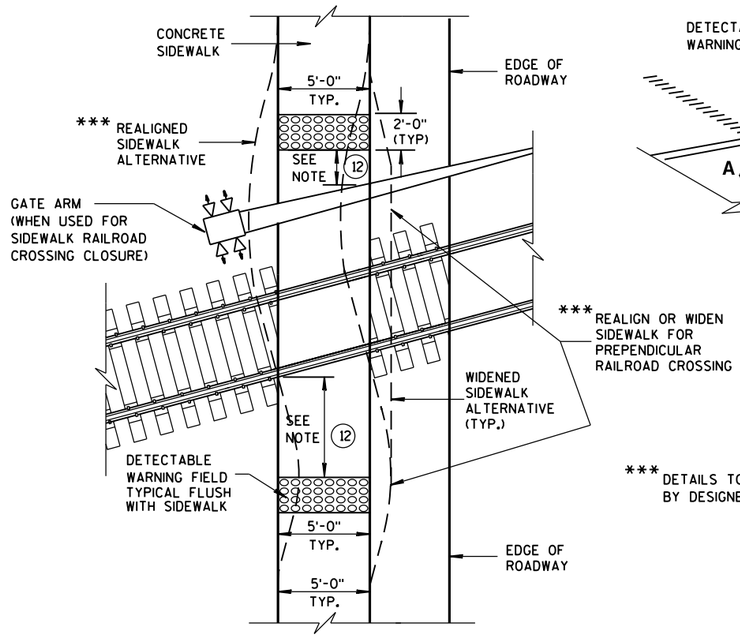
PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

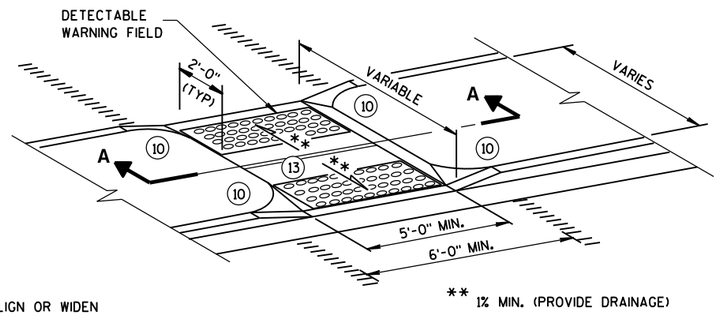
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S.D.D. 8 D 5-19d



TYPE 8
DETECTABLE WARNINGS AT RAILROAD CROSSING

*** DETAILS TO BE DETERMINED BY DESIGNER



** 1% MIN. (PROVIDE DRAINAGE)

MEDIAN ISLAND
NON-ELEVATED PEDESTRIAN CROSSING
TYPE 5

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

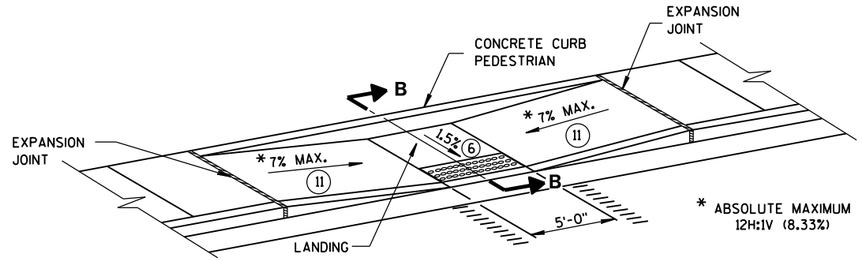
(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

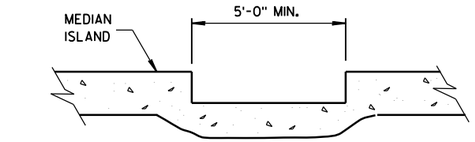
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ± 0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

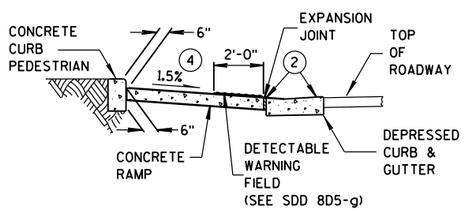
(13) DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STREET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2-FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.



MID-BLOCK CROSSING
TYPE 7A

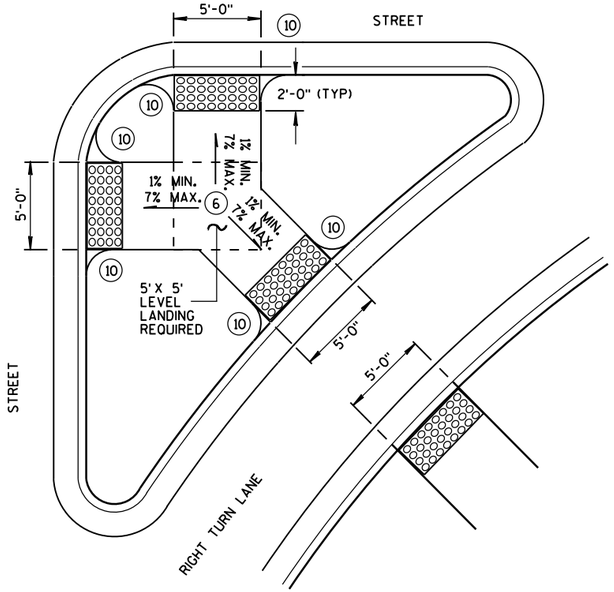


SECTION A-A

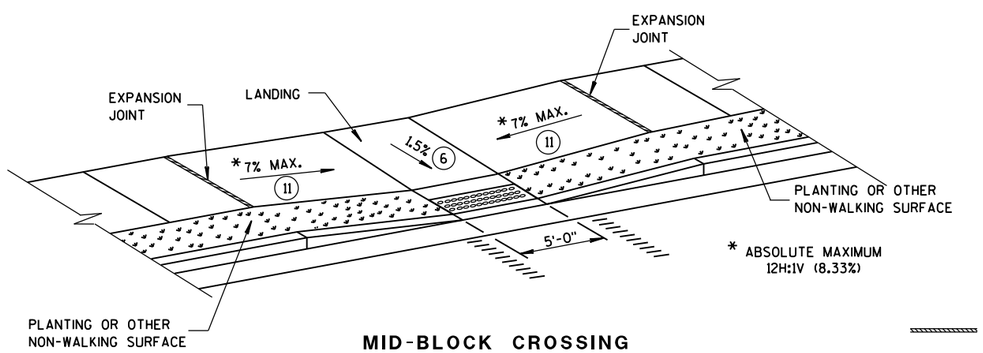


SECTION B-B

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS



TYPE 6
DETECTABLE WARNING AT ISLANDS



MID-BLOCK CROSSING
TYPE 7B

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.

LEGEND

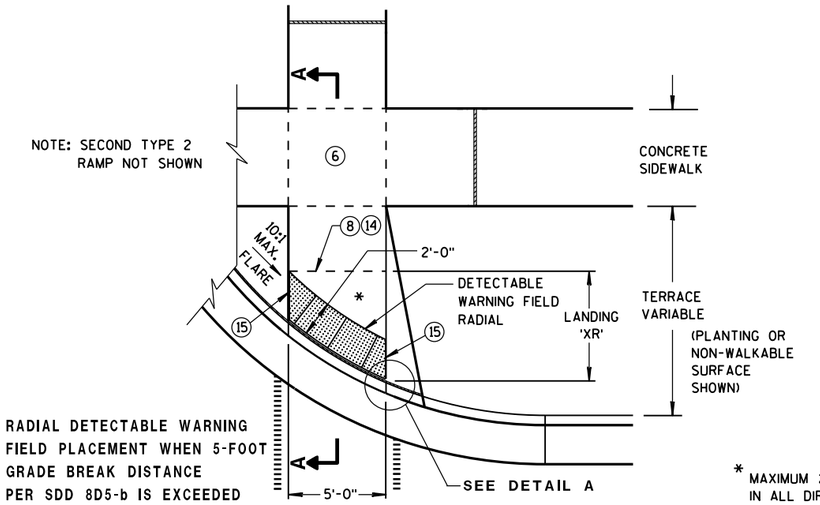
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPES 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

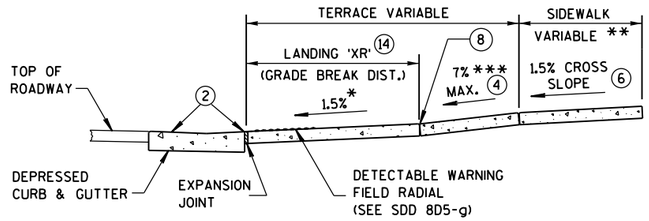
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S.D.D. 8 D 5-19e



TYPE 2 RAMP
PLAN VIEW
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)
(ON LINE WITH SIDEWALK)

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK



** WIDTH SHOWN ELSEWHERE IN THE PLANS

*** ABSOLUTE MAXIMUM 12H:1V (8.33%)

SECTION A-A

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS (DWFs) THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

APPLY RADIAL DETECTABLE WARNING PLACEMENT SIMILARLY FOR TYPE 4A AND 4A1 CURB RAMPS AND SIMILARLY FOR TYPE 4B AND 4B1 CURB RAMPS. TYPE 4A AND 4B CURB RAMPS ARE NOT SHOWN.

REFER TO SDD 8D5-g FOR ADDITIONAL RADIAL PLATE REQUIREMENTS.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FIELD ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

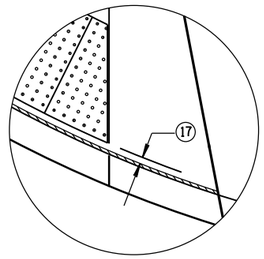
(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION 'XR') REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

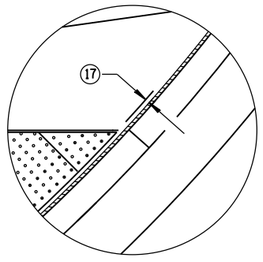
(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN 1/8" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

(16) USE 1'X 2' RECTANGULAR END PLATE AT END OF TYPE 4A1 RAMP AND PROVIDE MINIMUM 2'-0" DETECTABLE WARNING FIELD COVERAGE (IN DIRECTION OF PEDESTRIAN TRAVEL) ALONG THE ENTIRE CURB RAMP WIDTH.

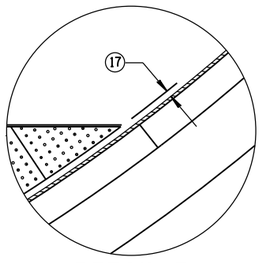
(17) A MAXIMUM 3-INCH CONCRETE BORDER WIDTH IS ALLOWABLE IN FRONT OF RADIAL DETECTABLE WARNING FIELD FOR CONSTRUCTABILITY PURPOSES. CONCRETE BORDER WIDTH MAY VARY UP TO 1 INCH.



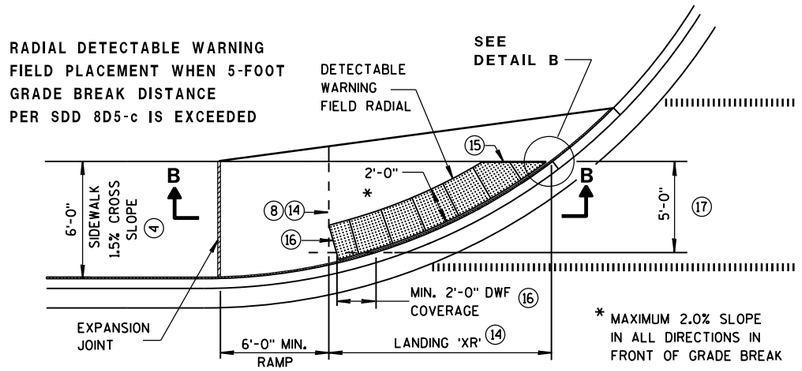
DETAIL A



DETAIL C

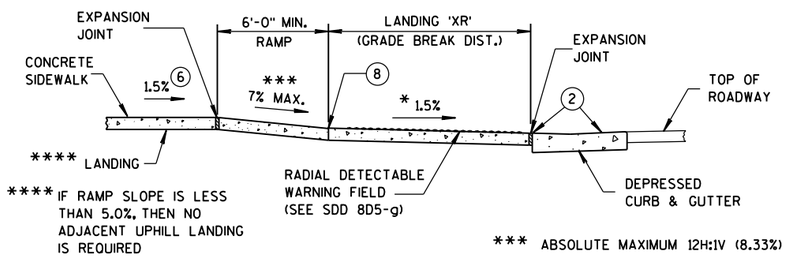


DETAIL B



* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

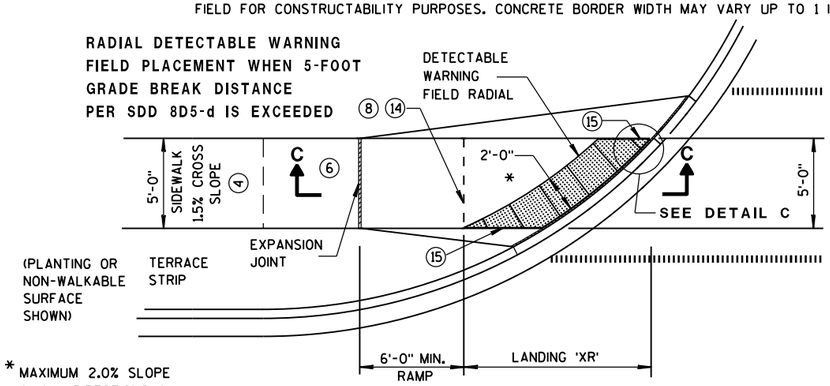
CURB RAMP TYPE 4A1
PLAN VIEW
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

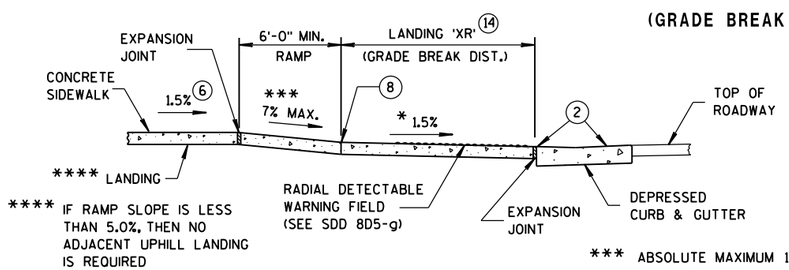
*** ABSOLUTE MAXIMUM 12H:1V (8.33%)

SECTION B-B FOR TYPE 4A1



* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

CURB RAMP TYPE 4B1
PLAN VIEW
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** ABSOLUTE MAXIMUM 12H:1V (8.33%)

SECTION C-C FOR TYPE 4B1

CURB RAMPS
RADIAL DETECTABLE WARNING FIELD APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 99

6

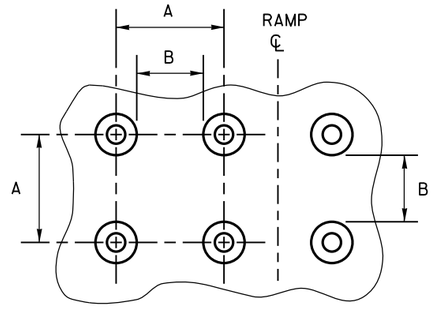
S.D.D. 8 D 5-19f

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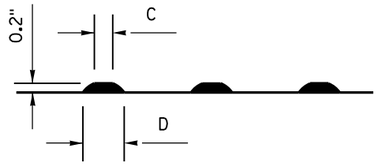
S.D.D. 8 D 5-19f

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.



PLAN VIEW



ELEVATION VIEW

TRUNCATED DOMES

DETECTABLE WARNING PATTERN DETAIL

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FIELD ARE PROHIBITED.

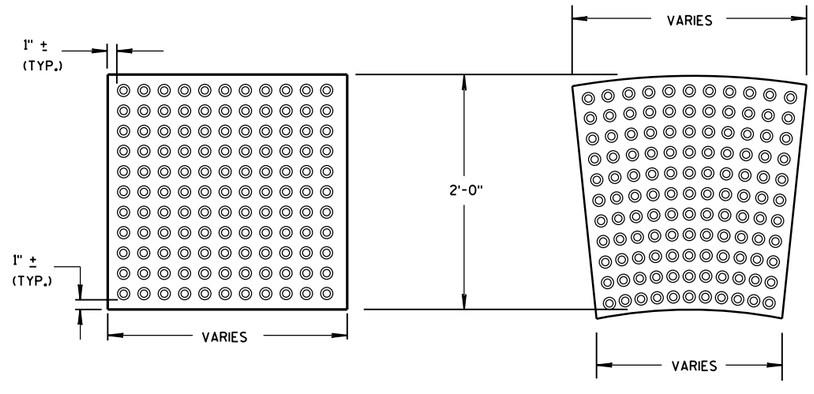
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGES IN COMBINATION WITH SQUARE PANELS ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

⑮ FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN 1/8" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

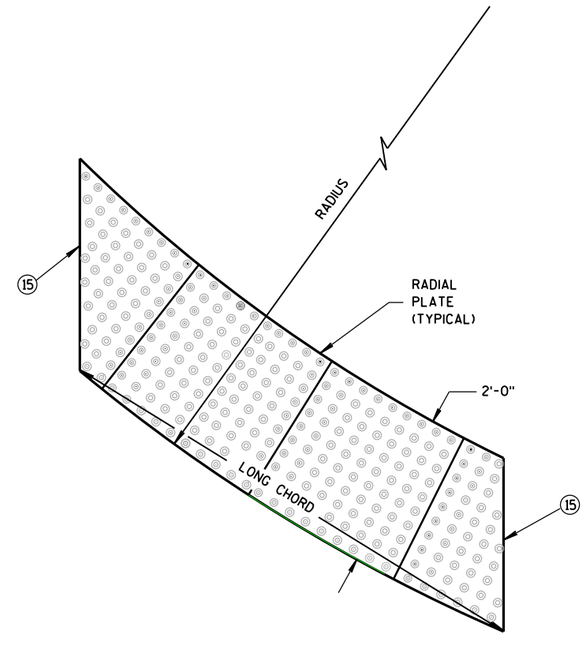


RECTANGULAR PLATES

RADIAL PLATES

DETECTABLE WARNING FIELDS (TYPICAL)

PLAN VIEW



RADIAL DETECTABLE WARNING FIELD ATTRIBUTES

CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

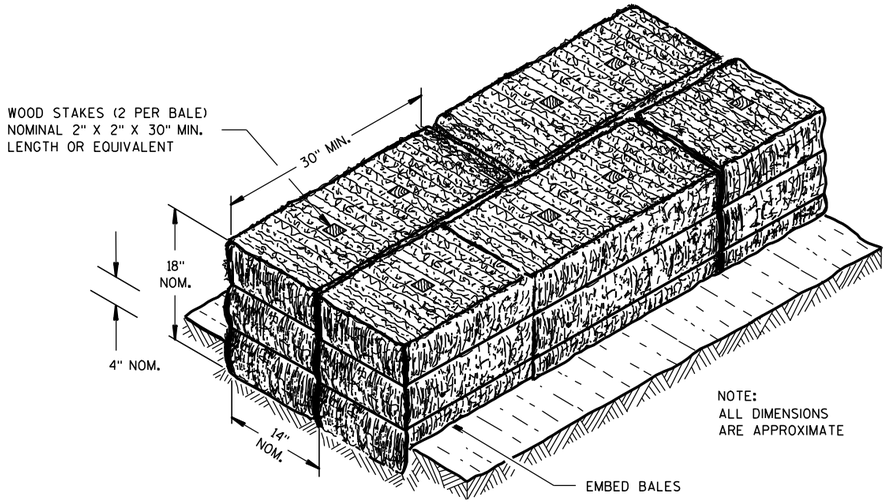
APPROVED
June, 2017 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERV
ENT
FHWA

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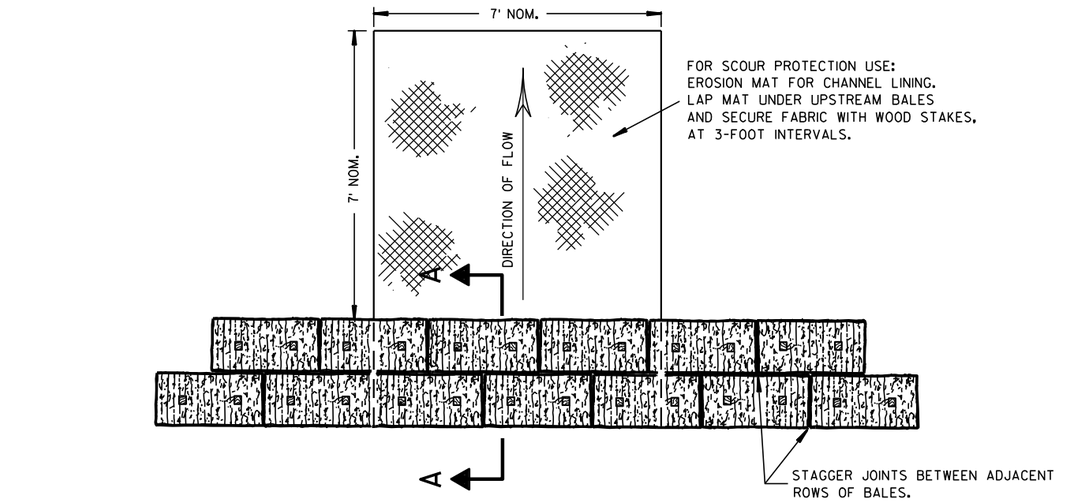
S.D.D. 8 D 5-19g

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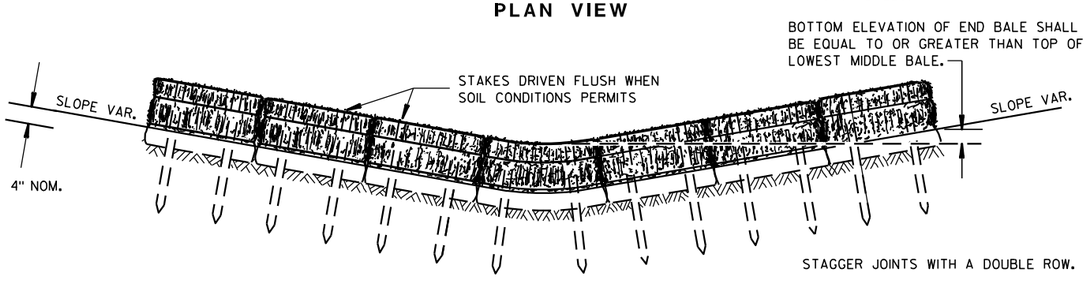
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SECTION A-A



PLAN VIEW



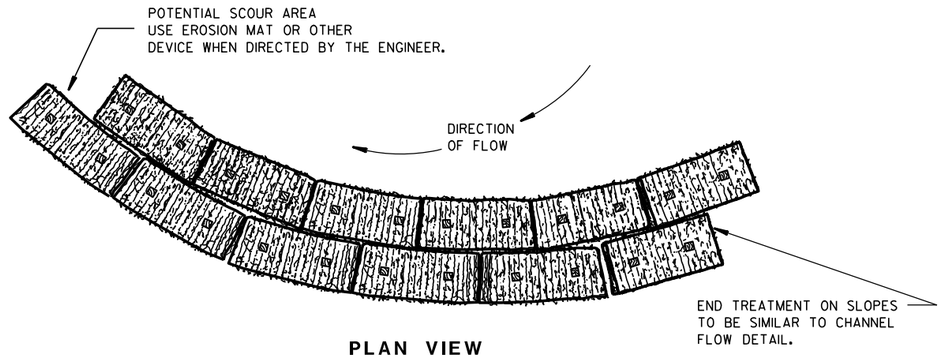
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

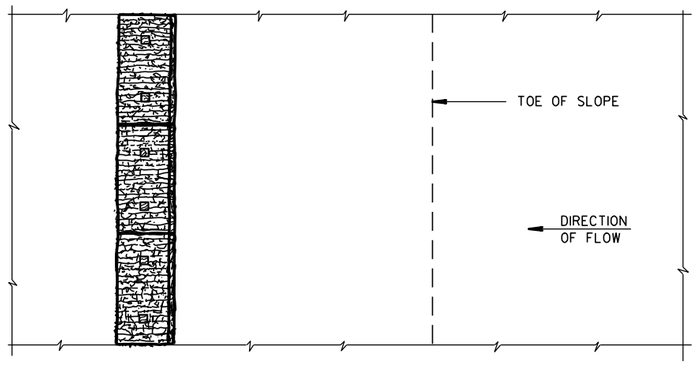
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

① TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

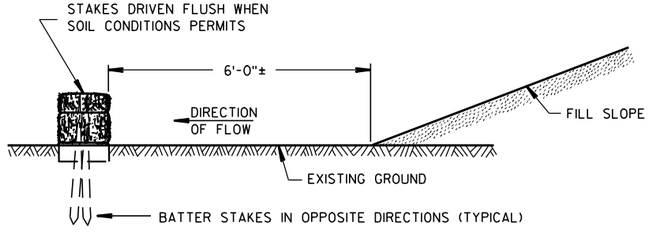


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

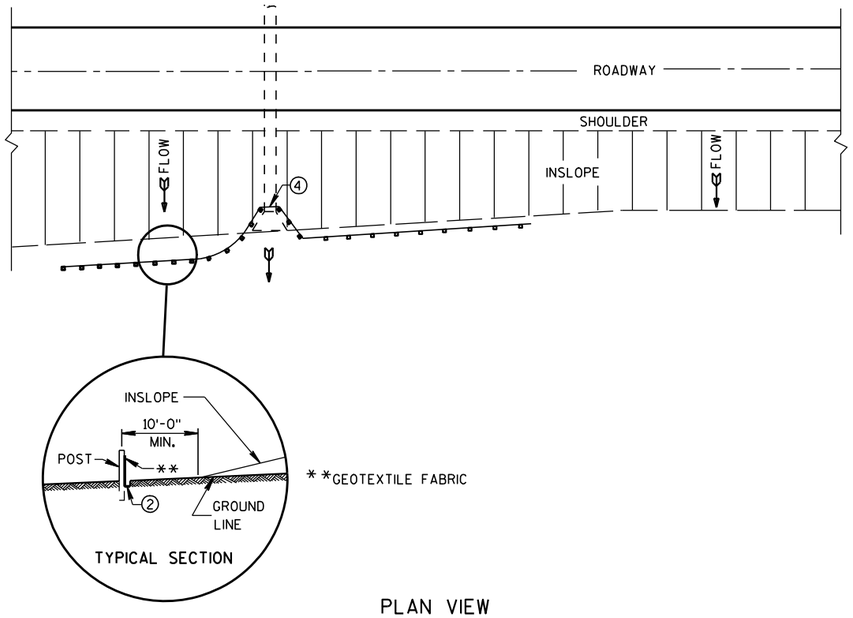
APPROVED
6/04/02 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 E 8-3

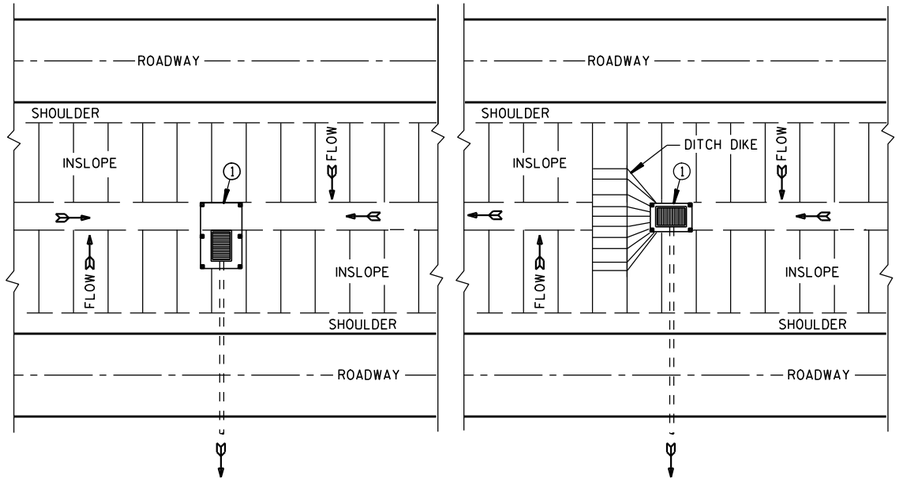
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S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



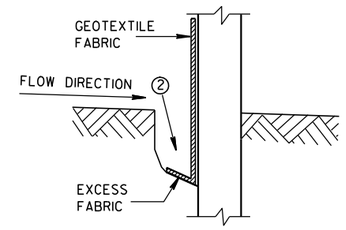
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

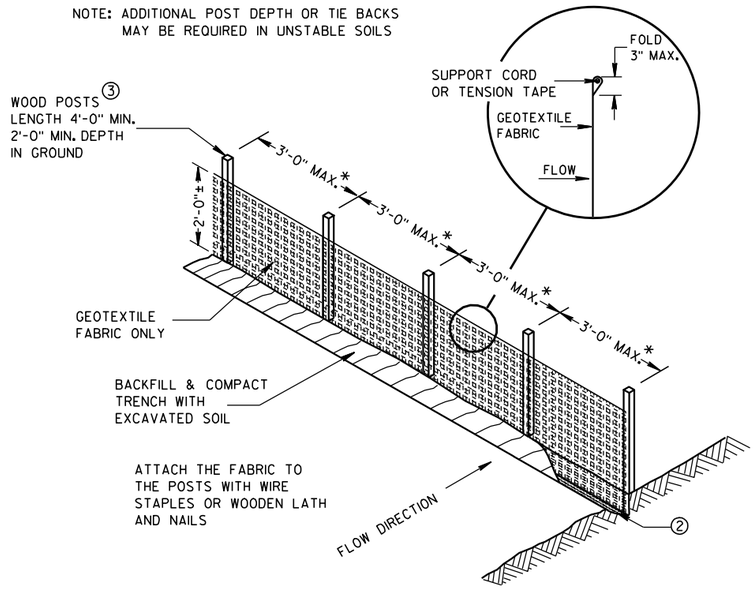
GENERAL NOTES

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

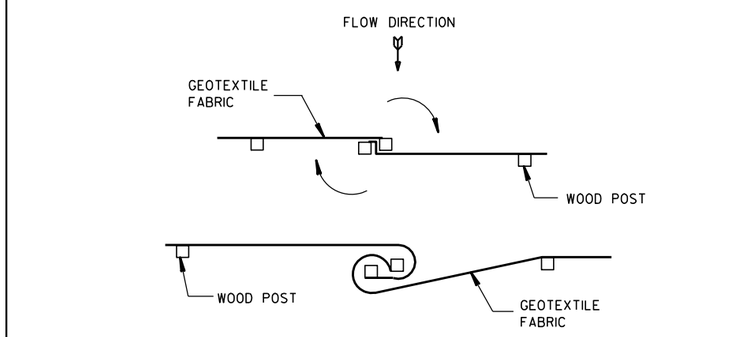
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



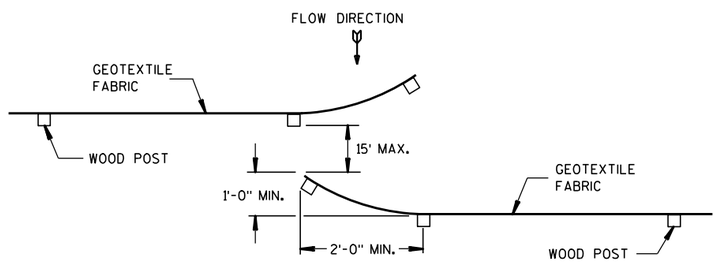
TRENCH DETAIL



SILT FENCE

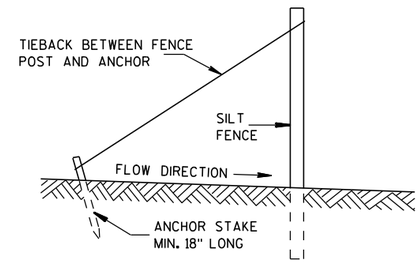


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

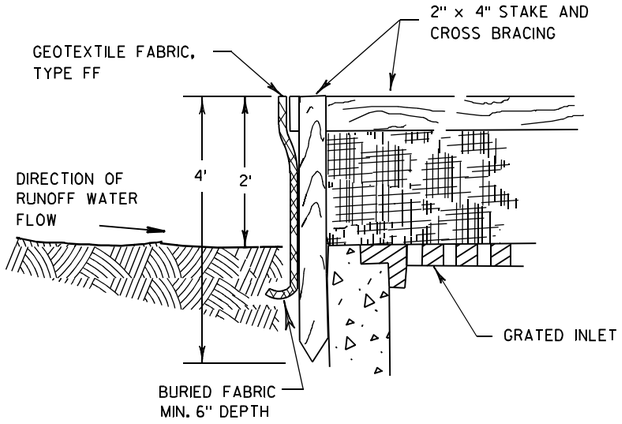
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

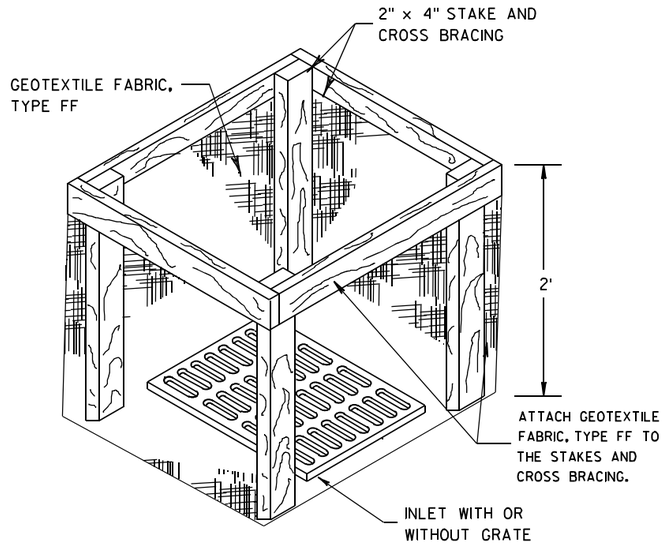
6

S.D.D. 8 E 9-6

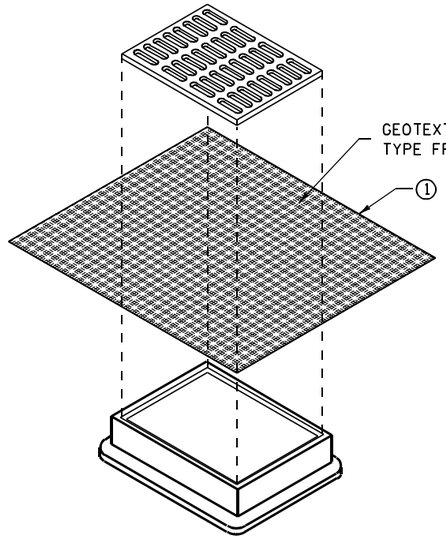
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S.D.D. 8 E 9-6



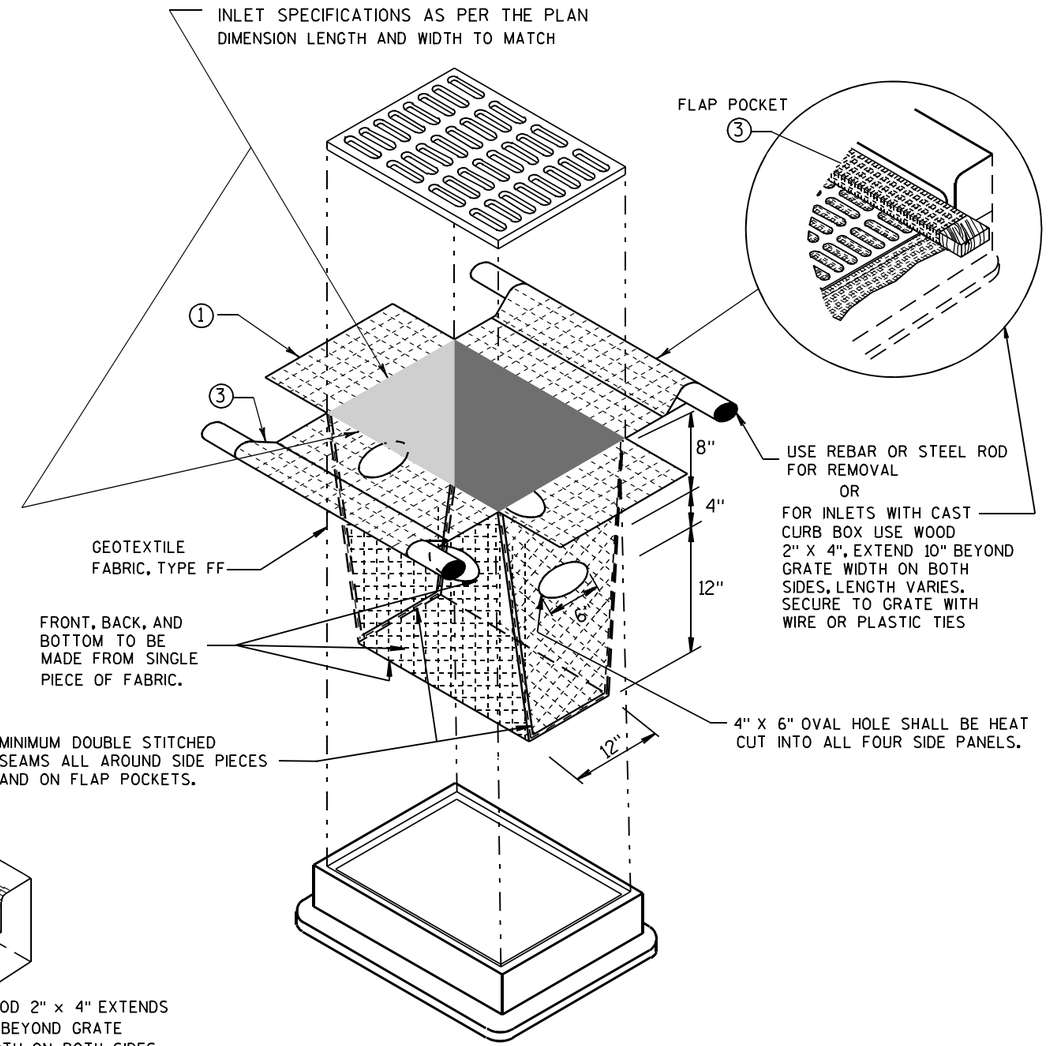


INLET PROTECTION, TYPE A



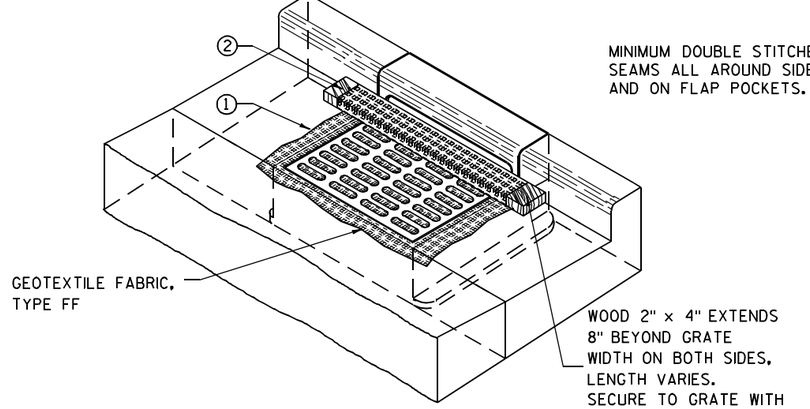
INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

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



INLET PROTECTION, TYPE D

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



INLET PROTECTION, TYPE C (WITH CURB BOX)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

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

METAL APRON ENDWALLS

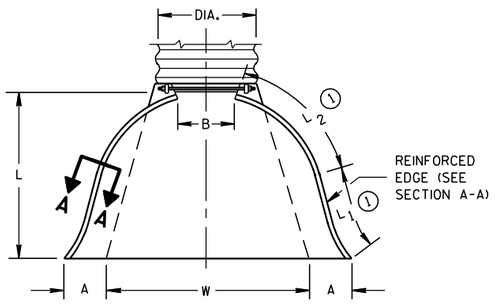
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

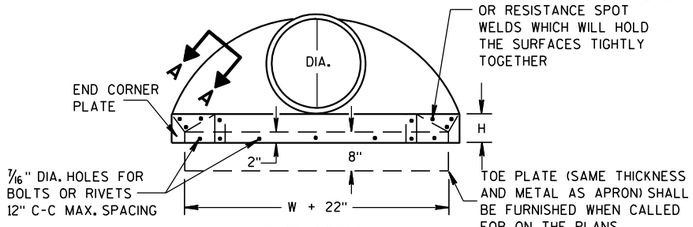
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

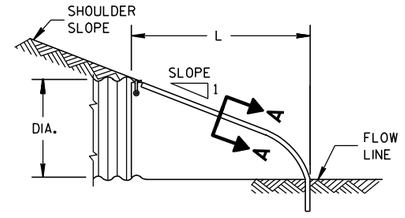
*MINIMUM
**MAXIMUM



PLAN VIEW

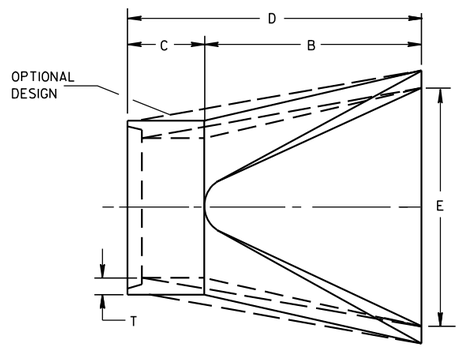


END VIEW

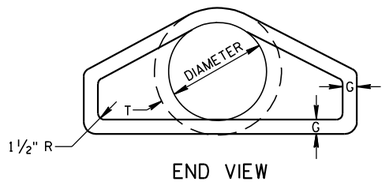


SIDE ELEVATION

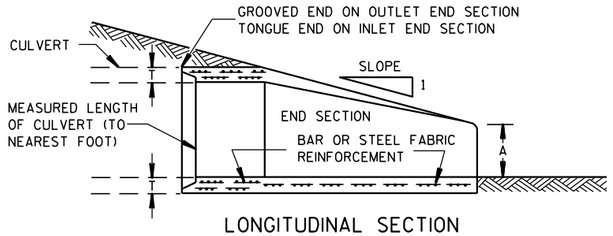
METAL ENDWALLS



PLAN

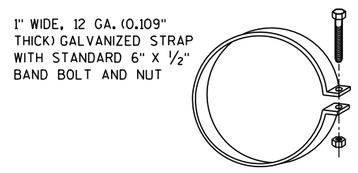


END VIEW



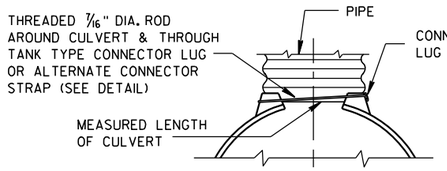
LONGITUDINAL SECTION

CONCRETE ENDWALLS

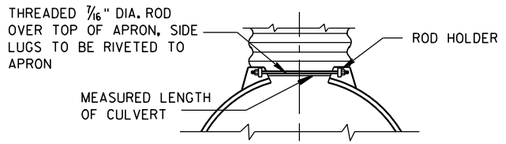


ALTERNATE FOR TYPE 1 CONNECTION

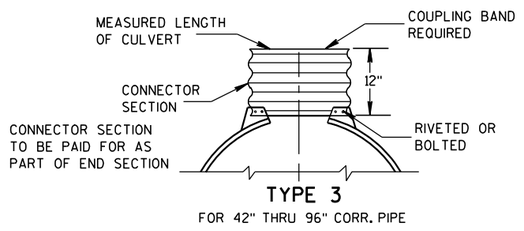
END SECTION CONNECTOR STRAP



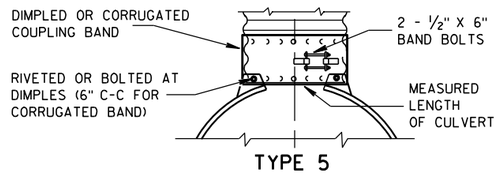
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

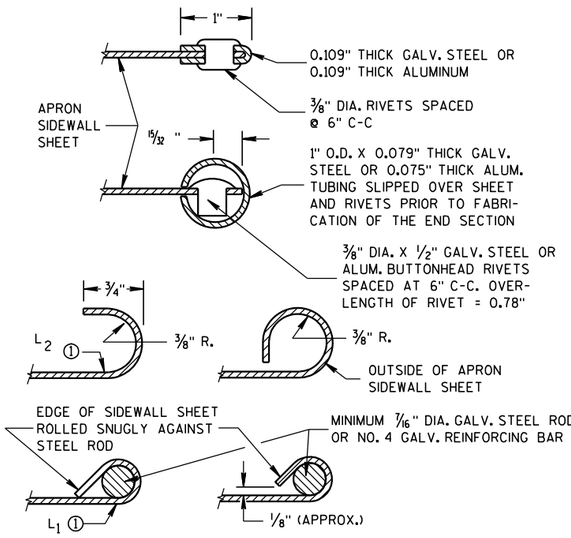
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

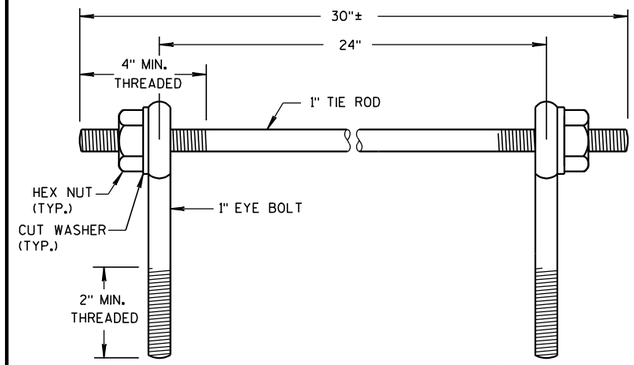
WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

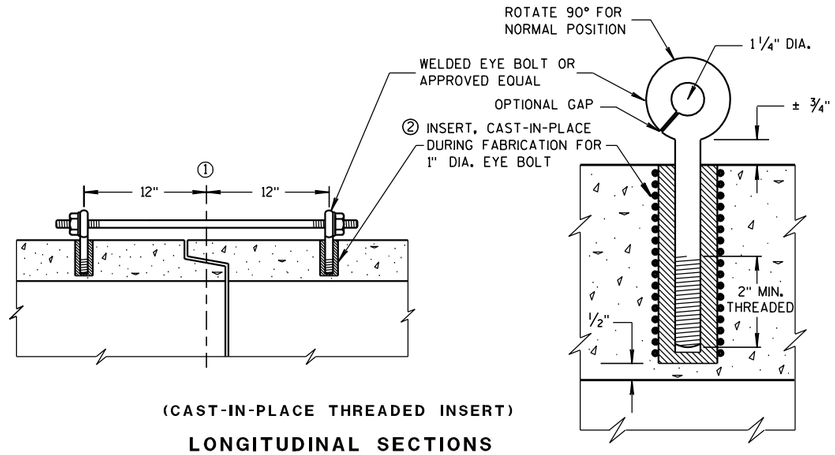
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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



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.

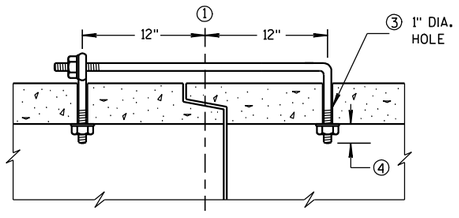
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

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

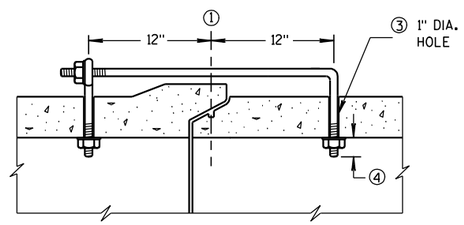
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

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)

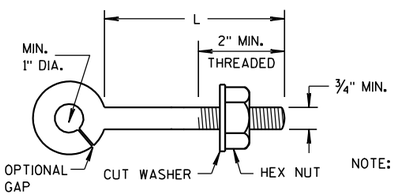


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

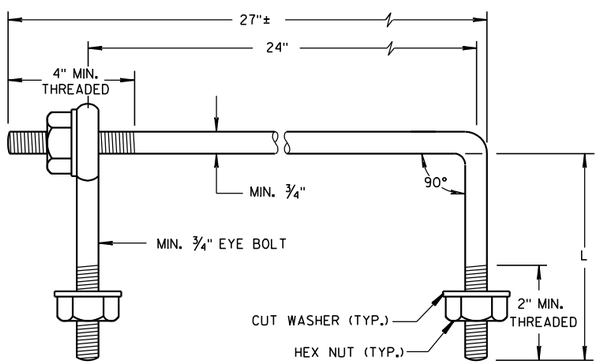
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



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

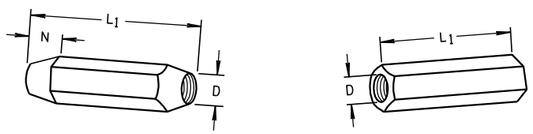
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

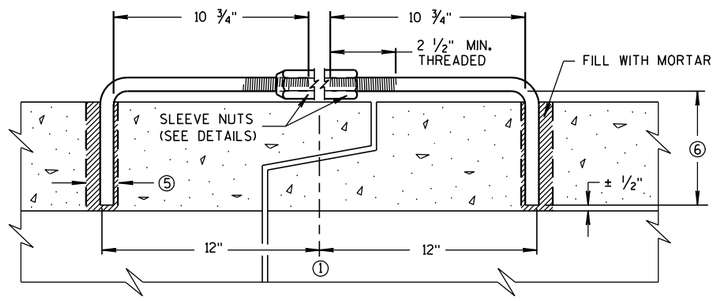
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

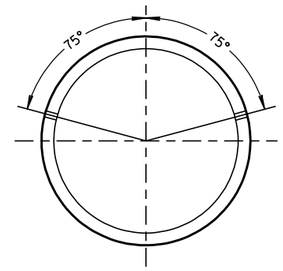
SLEEVE NUTS



LONGITUDINAL SECTION

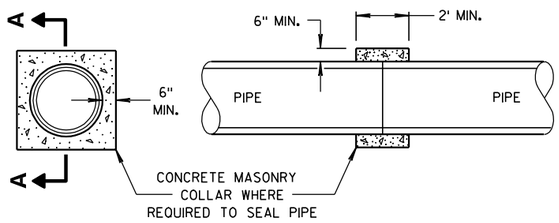
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

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

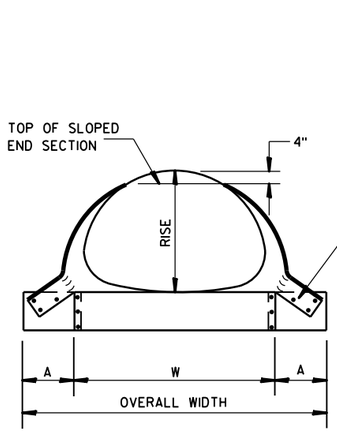
FHWA

6

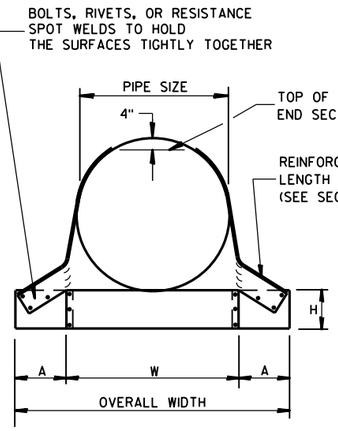
S.D.D. 8 F 4-7

6

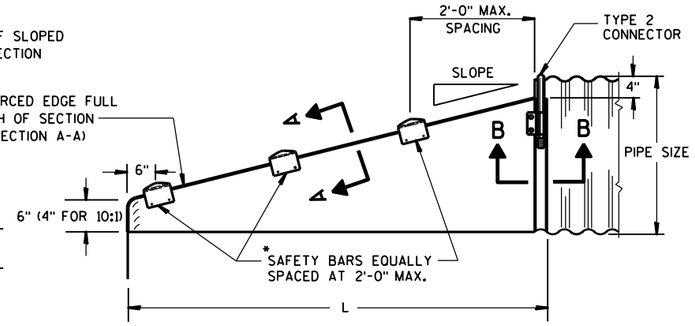
S.D.D. 8 F 4-7



FRONT VIEW



FRONT VIEW



SIDE VIEW

GENERAL NOTES

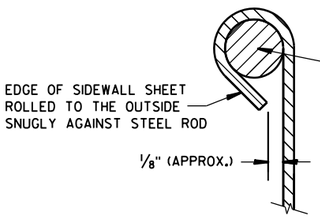
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

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

STEEL APRON ENDWALLS FOR CULVERT PIPE
SLOPED SIDE DRAINS

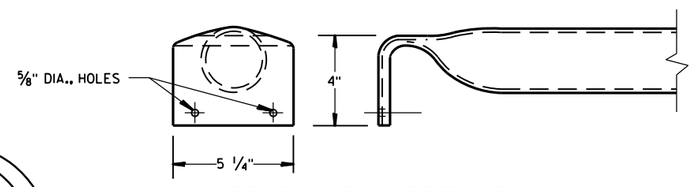
PIPE DIA. (IN.)	MIN. THICK. (Inches)	DIMENSIONS (Inches)				L DIMENSIONS					
		A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	.064	8	6	21	37	4:1	20	6:1	30	10:1	70
18	.064	8	6	24	40	4:1	32	6:1	48	10:1	100
21	.064	8	6	27	43	4:1	44	6:1	66	10:1	130
24	.064	8	6	30	46	4:1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



SECTION A-A

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

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

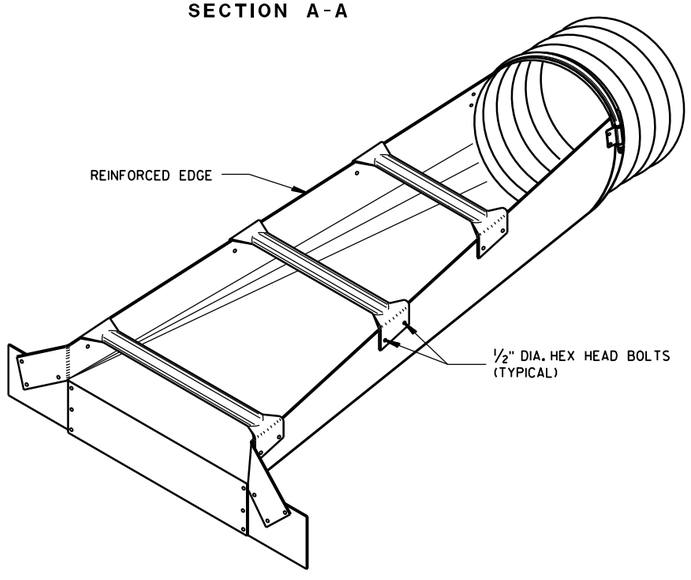


DETAIL OF SAFETY BAR

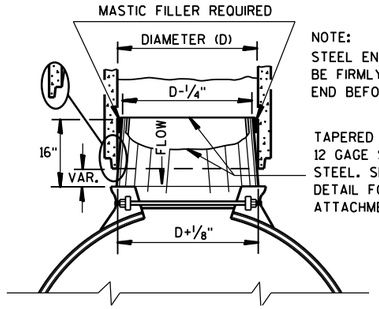
STEEL APRON ENDWALLS FOR PIPE ARCH
SLOPED SIDE DRAINS

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

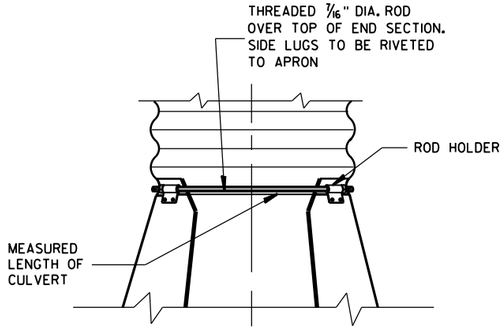
① * MINIMUM THICKNESS OF ALL 10:1 SLOPED SIDE DRAINS IS 0.109".
② ACTUAL SLOPE GREATER THAN 10:1.



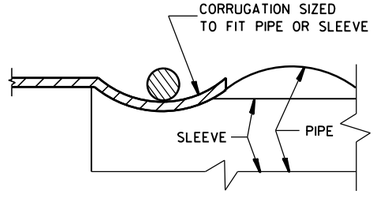
ISOMETRIC VIEW



STEEL ADAPTER SLEEVE FOR CONCRETE PIPE



TYPE 2
CONNECTION DETAIL



SECTION B-B

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

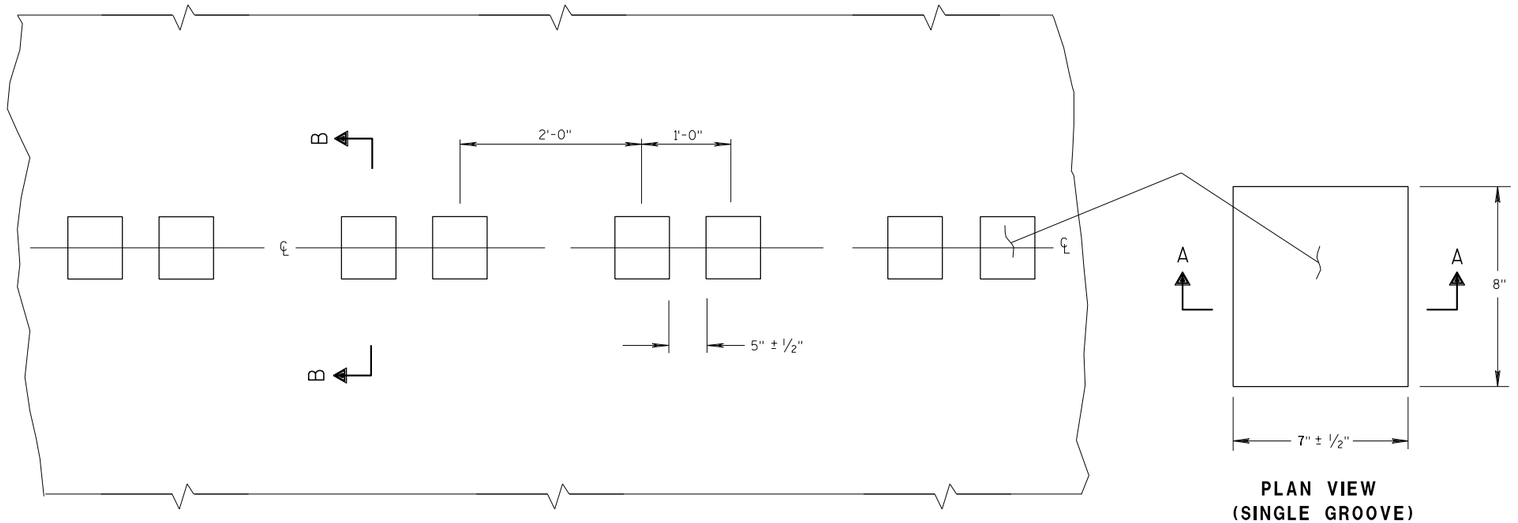
APPROVED
9/14/2012 — DATE
/S/ Jerry H. Zoda — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 F 7-5

6

S.D.D. 8 F 7-5



PLAN VIEW
CENTER LINE WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR MILLED RUMBLE STRIP

GENERAL NOTES

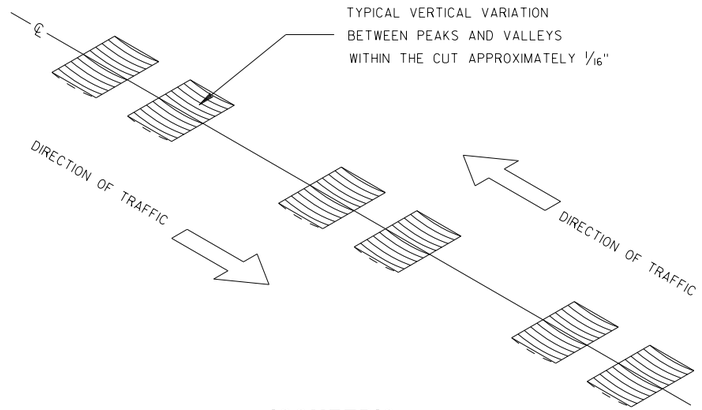
DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

DO NOT MILL CENTER LINE GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

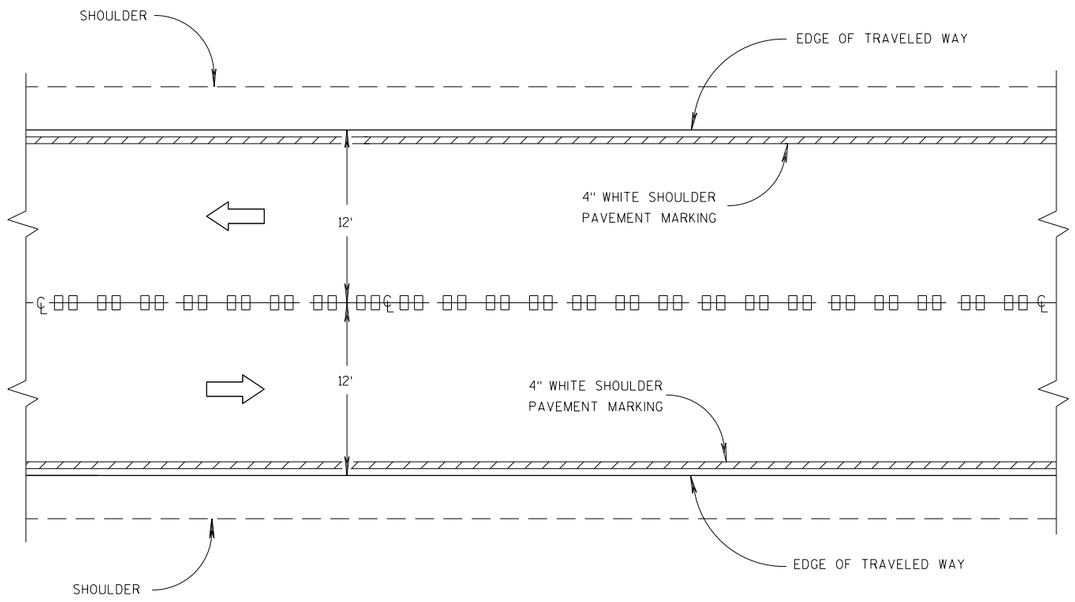
INSTALL PERMANENT MARKING EPOXY 4-INCH AFTER THE GROOVES ARE INSTALLED.

SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

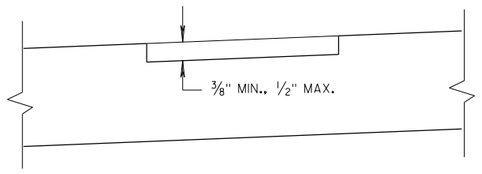
(1) CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



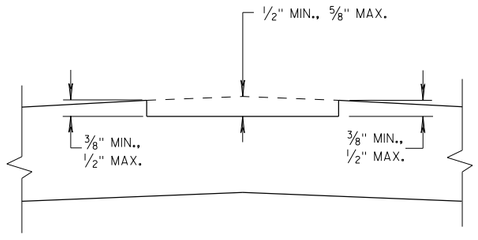
ISOMETRIC



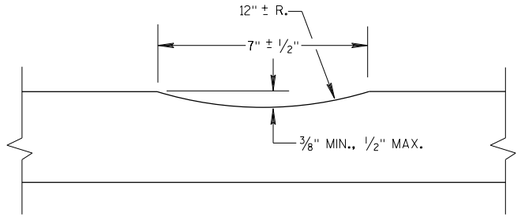
CENTER LINE GROOVES ON TWO-WAY ROADWAYS



SECTION B-B
SUPERELEVATED ROADWAY



SECTION B-B
CROWNED ROADWAY

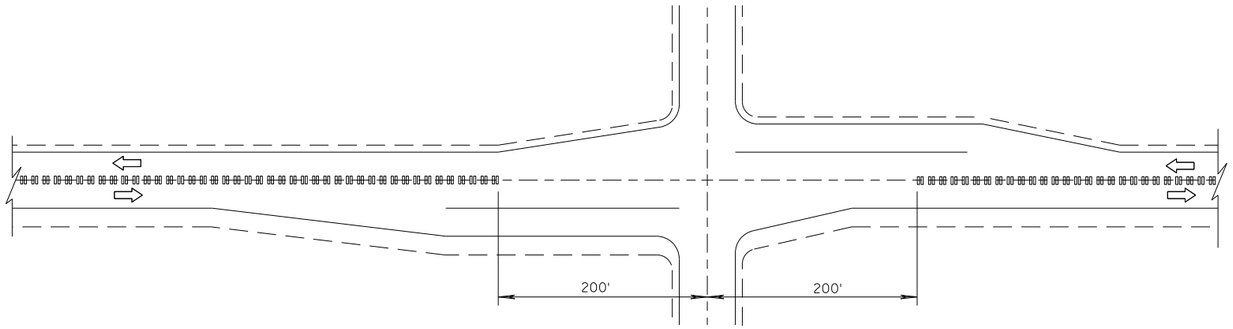


SECTION A-A

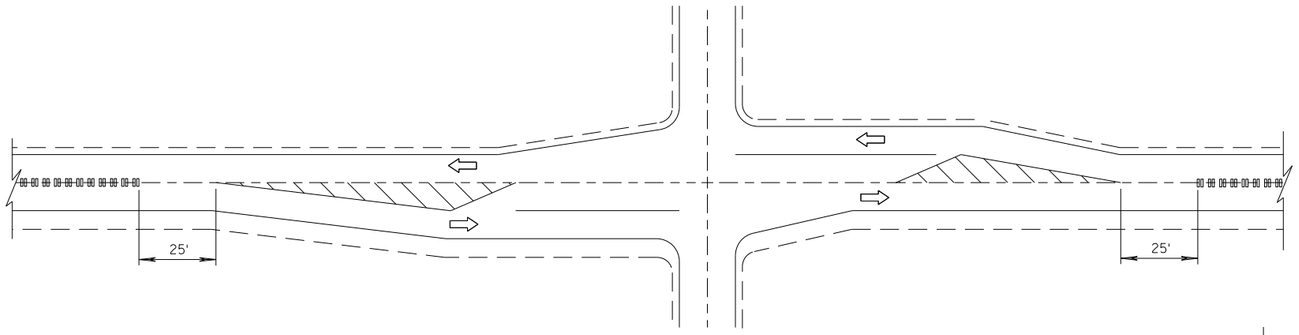
2-LANE RURAL
CENTER LINE RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

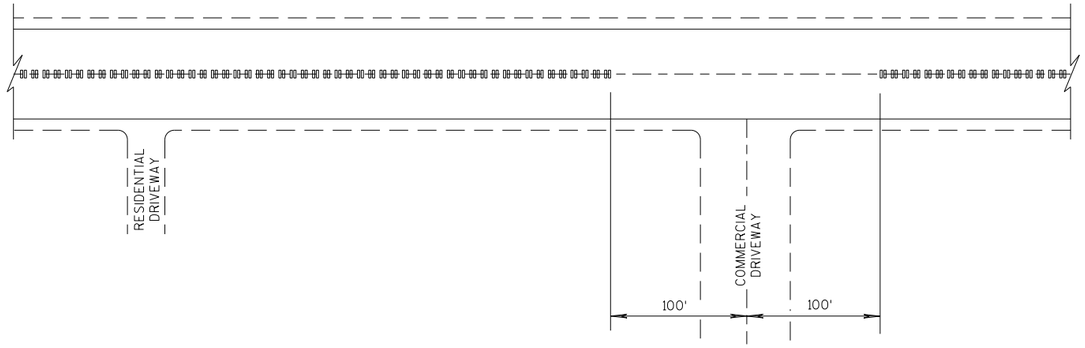
6
S.D.D. 13 A 11-3a



CENTER LINE GROOVES AT INTERSECTIONS

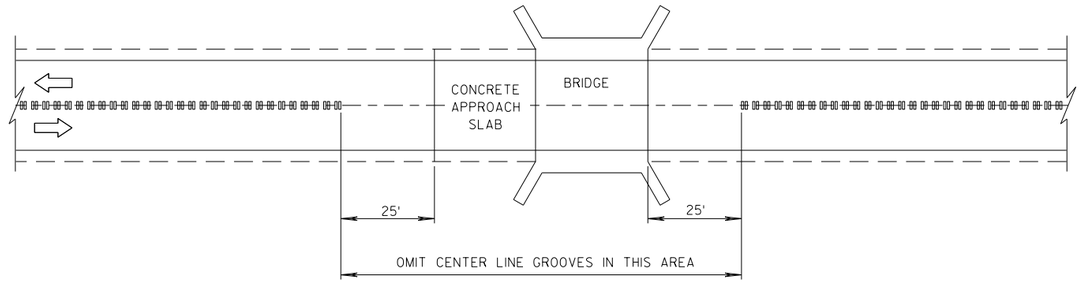


CENTER LINE GROOVES AT INTERSECTIONS
(WITH LEFT TURN LANES)

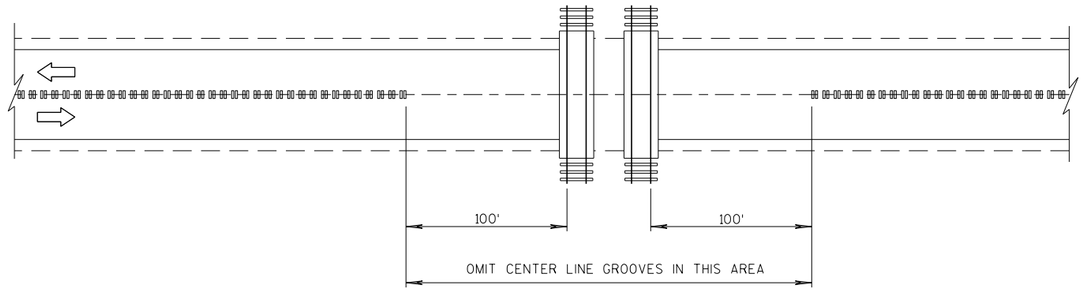


CENTER LINE GROOVES AT DRIVEWAYS (1)

(1) CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



CENTER LINE GROOVES AT BRIDGES



CENTER LINE GROOVES AT RAILROADS

2-LANE RURAL
CENTER LINE RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018 — DATE

/S/ Rodney T — ROADWAY STANDARDS DE UNIT SUPERVISOR

FHWA

6

S.D.D. 13 A 11-3b

6

S.D.D. 13 A 11-3b

GENERAL NOTES

(1) W6 X 9 OR W6 X 8.5 STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POSTS WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS. APPROVED PLASTIC BLOCKOUT DESIGNS MAY VARY FROM THIS TYPICAL DETAIL WHEN USED IN CONJUNCTION WITH STEEL POSTS.

DO NOT MIX STEEL POSTS AND WOOD POSTS IN A SINGLE INSTALLATION.

(2) USE STRUCTURAL STEEL POSTS CONFORMING TO ASTM A 36. GALVANIZED POSTS ACCORDING TO AASHTO M 111. EITHER SET THE POSTS IN DRILLED HOLES OR DRIVE TO GRADE. REMOVE MUSHROOMING CAUSED BY DRIVING AND REPAIR DAMAGED SPELTER COATING ON GALVANIZED POSTS.

(3) INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

(4) USE EITHER WOOD OR APPROVED PLASTIC BLOCKOUTS ON WOOD POSTS.

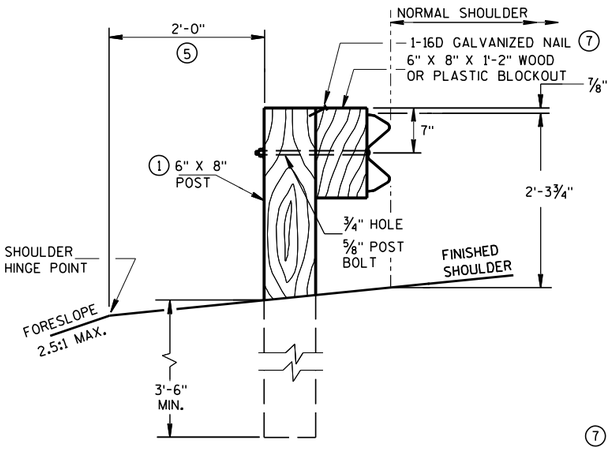
(5) IF THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING, W BEAM (LHW).

(6) IF ROCK IS ENCOUNTERED DURING EXCAVATION, THE ENGINEER MAY APPROVE USING A 12 INCH DIAMETER POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE APPROXIMATELY 2½ INCHES DEEP. CUT THE POSTS TO LENGTH AND PLACE IN YHE HOLE. BACKFILL WITH MATERIAL EXCAVATED FROM THE HOLE AND COMPACT ADEQUATEY.

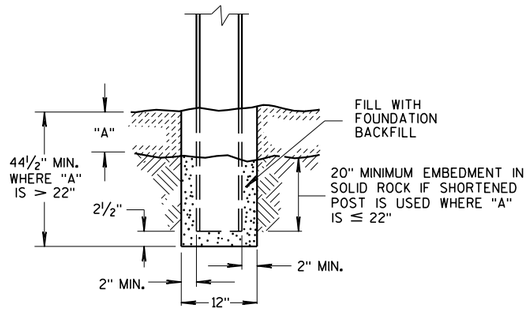
(7) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

INSTALL BEAM GUARD SECTIONS AND ALL NECESSARY HARDWARE ACCORDING TO THE APPLICABLE PLAN AND CURRENT STANDARD AND SUPPLEMENTAL SPECIFICATIONS.

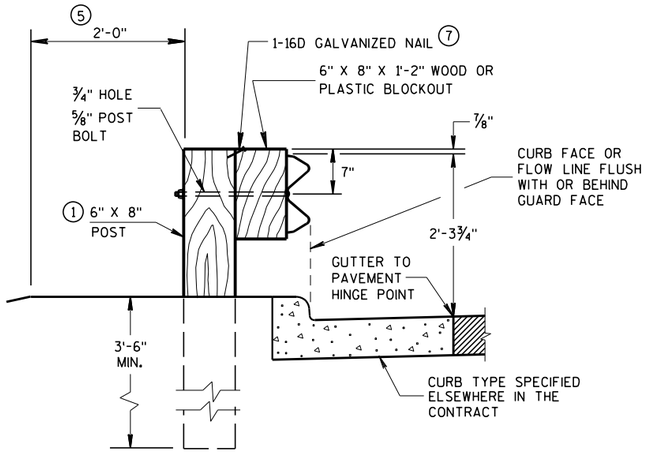
ALL DIMENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCES EXCEPT WHERE ALLOWABLE TOLERANCES ARE SHOWN.



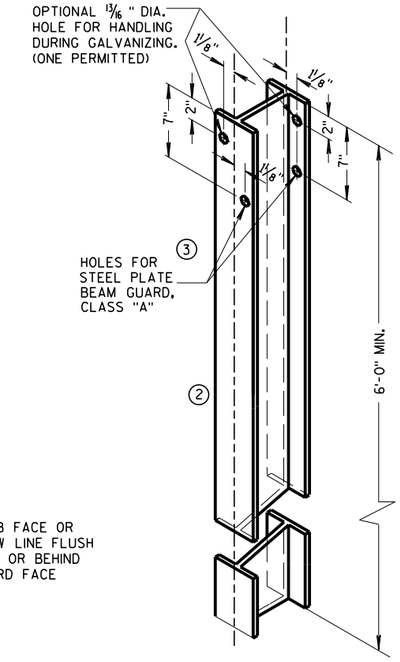
END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



END VIEW
SETTING STEEL OR WOOD POST IN ROCK (6)

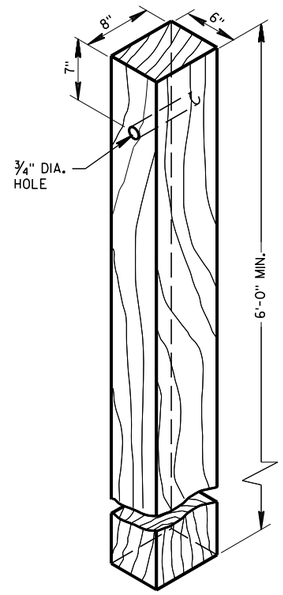


END VIEW
LOCATED ALONG A CURBED ROADWAY

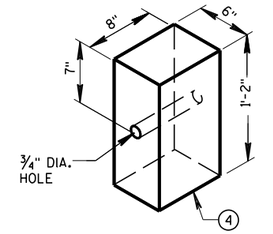


STEEL POST &
HOLE PUNCHING DETAIL
(W6 X 9) (1)

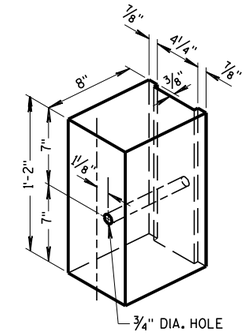
ALL HOLES 13/16" DIAMETER EXCEPT AS NOTED



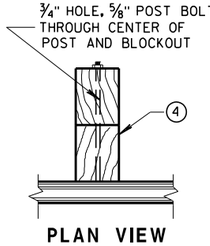
WOOD POST
(6"X8") NOMINAL



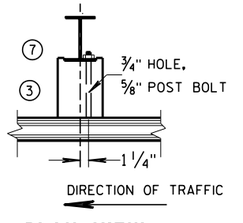
WOOD OR PLASTIC
BLOCKOUT FOR
WOOD POSTS



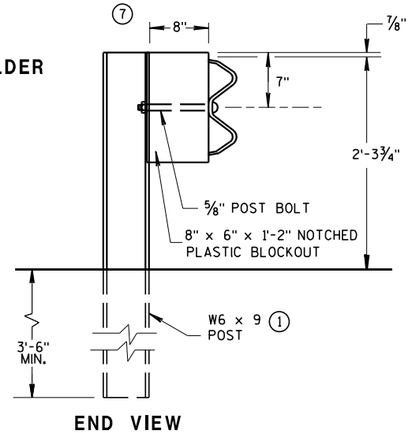
TYPICAL NOTCHED
PLASTIC BLOCKOUT
FOR STEEL POSTS (1)



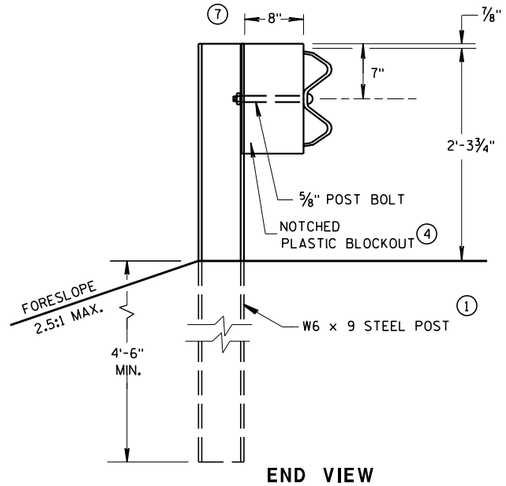
PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



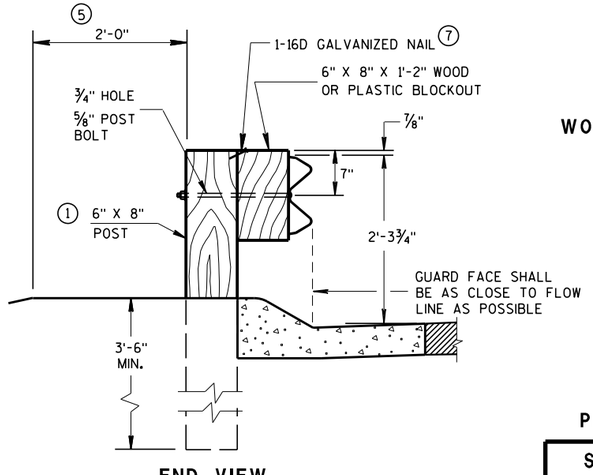
PLAN VIEW
STEEL POST, NOTCHED
PLASTIC BLOCKOUT & BEAM



END VIEW
STEEL POST & NOTCHED
PLASTIC BLOCKOUT ALTERNATIVE
STANDARD INSTALLATION



END VIEW
LONGER POST AT HALF
POST SPACING W BEAM
(LHW)



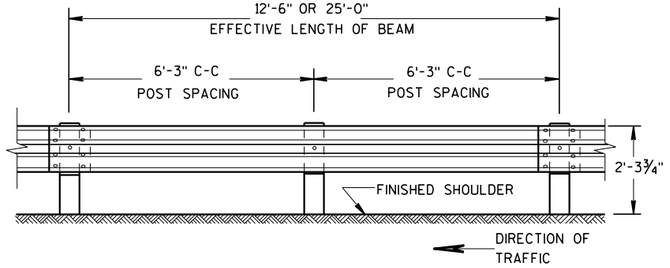
END VIEW
LOCATED ALONG A
MOUNTABLE CURBED ROADWAY

TYPICAL INSTALLATION OF STEEL PLATE BEAM GUARD

STEEL PLATE BEAM GUARD,
CLASS "A"
INSTALLATION & ELEMENTS

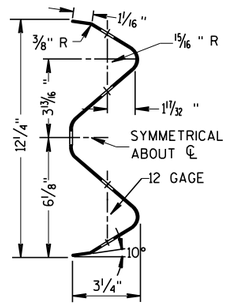
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
S.D.D. 14 B 15-11a

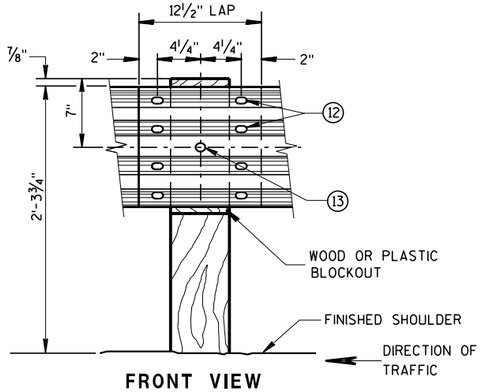


FRONT VIEW

POST SPACING STANDARD INSTALLATION



SECTION THRU W BEAM



FRONT VIEW

BEAM SPLICE AT WOOD POST AND POST MOUNTING DETAIL

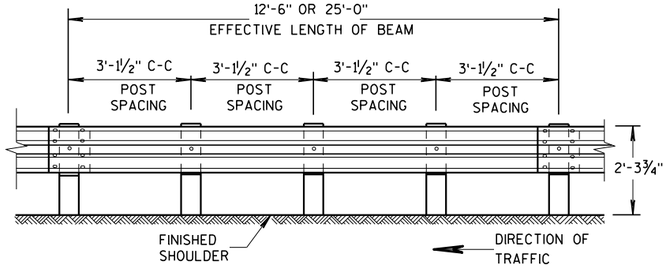
GENERAL NOTES

FURNISH GUARDRAIL DEFLECTORS FROM APPROVED PRODUCTS LIST.

(9) DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINA. START REFLECTORS AT POST #9 AND SPACE EVENLY EVERY 100 FEET (MAX.) TO THE END OF GUARDRAIL RUN, USING A MINIMUM OF 3 REFLECTORS.

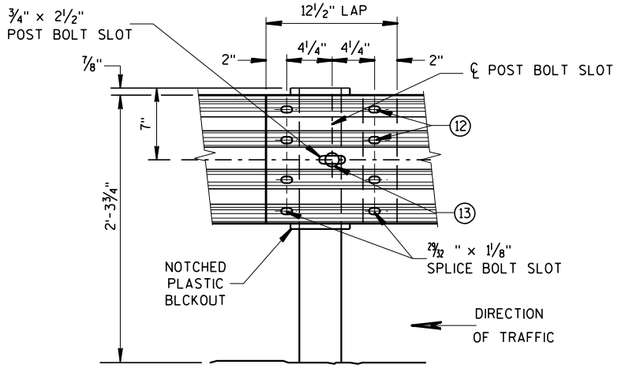
(12) 8 -⅝" ϕ X 2" BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.

(13) ⅝" DIA. BUTTON HEAD BOLT AND RECESS NUT WITH ⅝" DIA. F844 FLAT WASHER UNDER NUT.



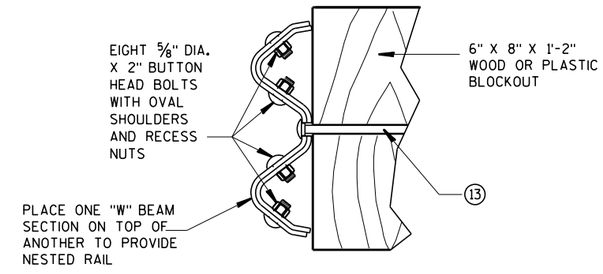
FRONT VIEW

POST SPACING FOR LONGER POST AT HALF POST SPACING W BEAM (LHW)



FRONT VIEW

BEAM SPLICE AT STEEL POST

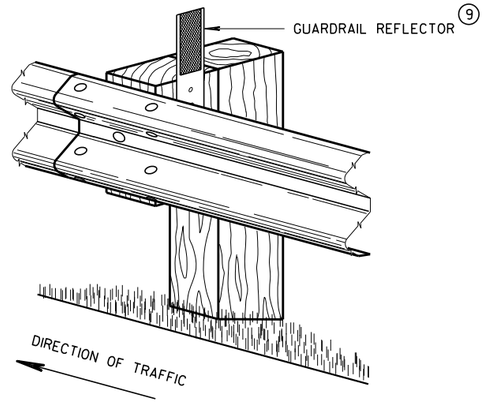


NESTED W BEAM (NW)

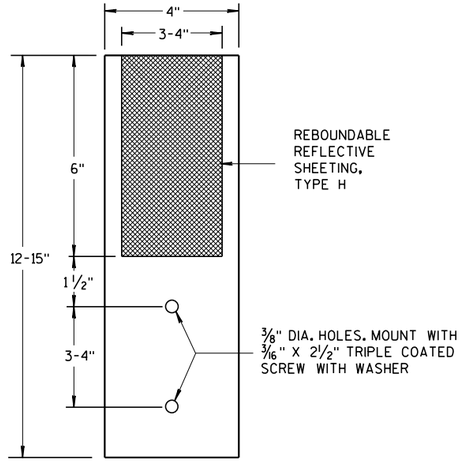
USE ALL OTHER STANDARD BEAM GUARD DETAILS FOR CONSTRUCTING NESTED W BEAM (NW)

TYPICAL SPLICING DETAILS OF STEEL PLATE BEAM GUARD

* USE DOUBLE SIDED WHITE GUADRAIL REFLECTORS ON ROADWAYS WITH BI-DIRECTIONAL TRAFFIC (NO MEDIAN). USE SINGLE SIDED WHITE (RIGHT SIDE) AND SINGLE SIDED YELLOW (LEFT SIDE) ON ROADWAYS WITH MEDIAN SEPARATION.



4" X 12" GUARDRAIL REFLECTOR DETAIL AND TYPICAL INSTALLATION *



4"x 12" GUARDRAIL REFLECTOR

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

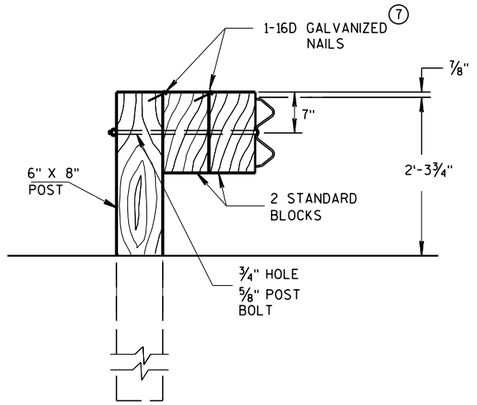
STATE OF WISCO 110
DEPARTMENT OF TRANSPORTATION

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S.D.D. 14 B 15-11b

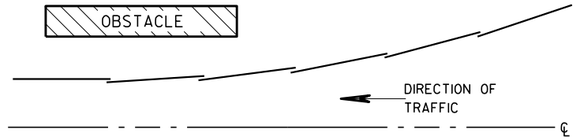
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S.D.D. 14 B 15-11b

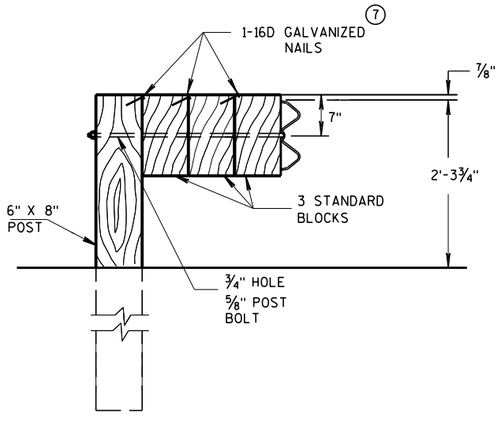


DETAIL FOR DOUBLE BLOCKS

THE NUMBER OF DOUBLE BLOCK POSTS WITHIN A BARRIER RUN IS UNLIMITED

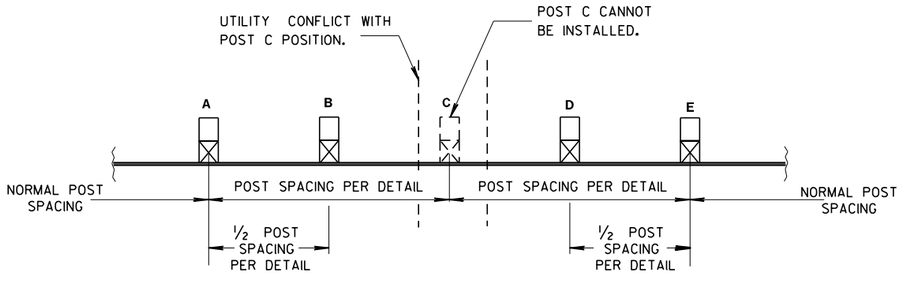


PLAN VIEW
BEAM LAPPING DETAIL



DETAIL FOR TRIPLE BLOCKS

TRIPLE BLOCK DETAIL IS LIMITED TO ONE LOCATION WITHIN A BEAM GUARD RUN.



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION

NOTES: USE DOUBLE OR TRIPLE BLOCKS WHEN UNDERGROUND OBSTACLES PREVENT THE POST FROM BEING INSTALLED.

DO NOT USE EXTRA BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS UNIT SUPERVISOR

FHWA

6

S.D.D. 14 B 15-11c

6

S.D.D. 14 B 15-11c

BILL OF MATERIALS

NOTE NO.	DESCRIPTION
①	WOOD BREAKAWAY TERMINAL POST: 5½" X 7½" X 3'-9"
②	STEEL TUBE TS 8" X 6" X 0.188", 6'-0"
④	WOOD BREAKAWAY CRT POST: 6" X 8" X 6'-0"
⑤	WOOD OFFSET BLOCKS: 6' X 8" X 1'-2"
⑥	PIPE SLEEVE: 2" X 5 ½" STANDARD PIPE
⑦	BEARING PLATE
⑧	BCT CABLE ASSEMBLY
⑨	CABLE ANCHOR BOX
⑩	STRUT & YOKE
⑪	STEEL PLATE BEAM, END PANEL 12 GA.
⑫	STEEL PLATE BEAM: 12 GA. 13'-6½"
⑬	IMPACT HEAD
⑭	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE F PER SECTION 637 OF THE STANDARD SPECIFICATIONS

GENERAL NOTES

FOLLOW MANUFACTURE'S BOLTING RECOMMENDATIONS.

(A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL), AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED.

(D) THE TOP OF THE STEEL TUBE ON POSTS 1 AND 2 SHALL NOT BE MORE THAN 3" ABOVE THE FINISH GROUND ELEVATION.

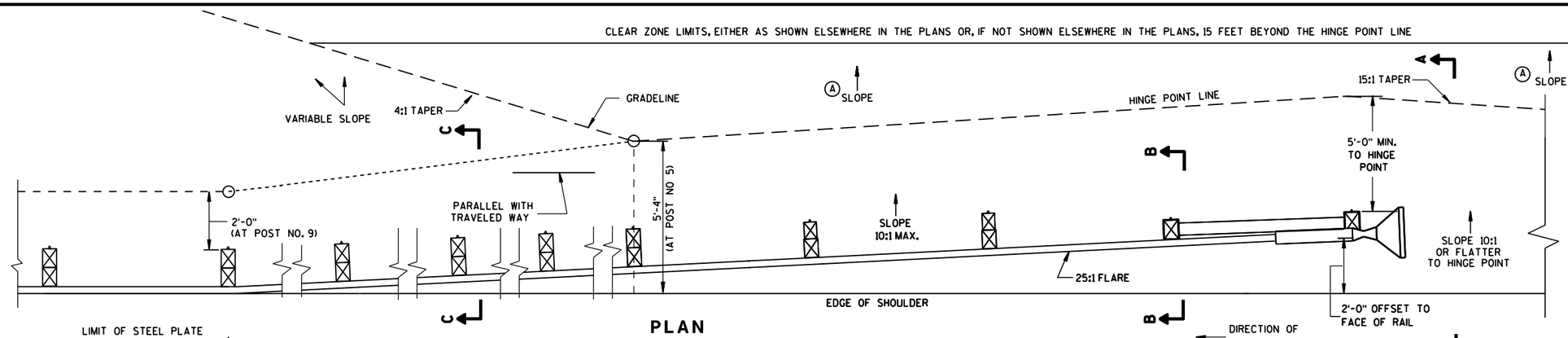
(E) THE CENTER OF THE UPPER 3½" DIAMETER HOLE ON POST 3 THROUGH 8 SHALL BE ¾" ABOVE THE FINISHED GROUND LINE.

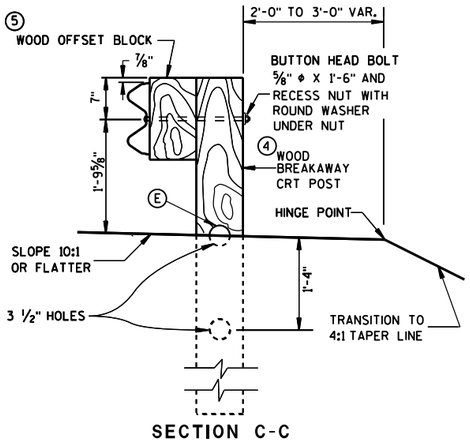
(F) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF-TAPPING SCREWS. ONE SCREW PER CORNER.

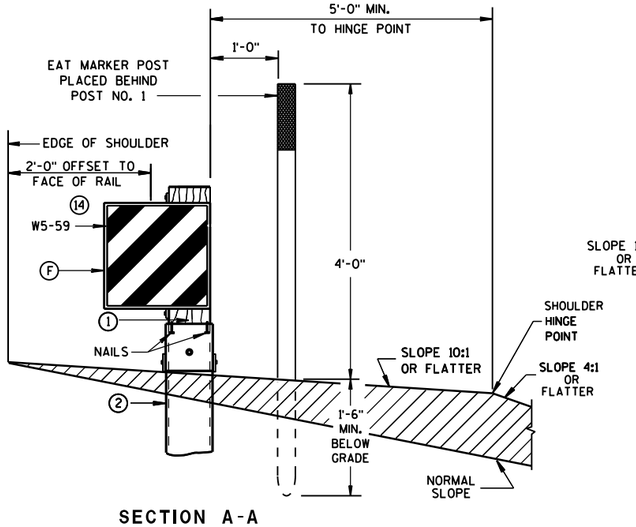
STEEL POSTS SHALL NOT BE ALLOWED FOR USE WITH ENERGY ABSORBING TERMINALS.

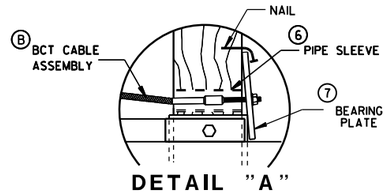
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

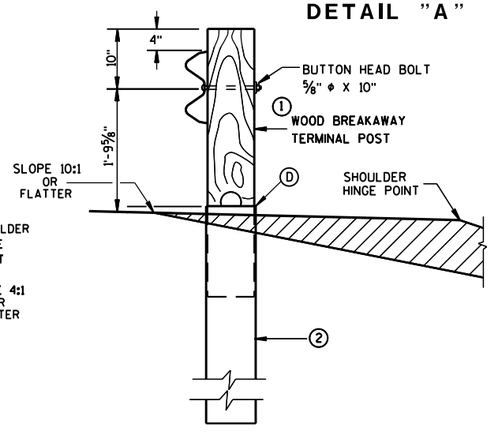
* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

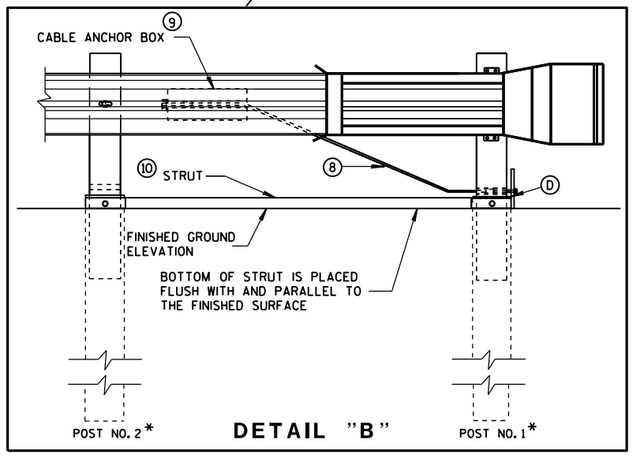










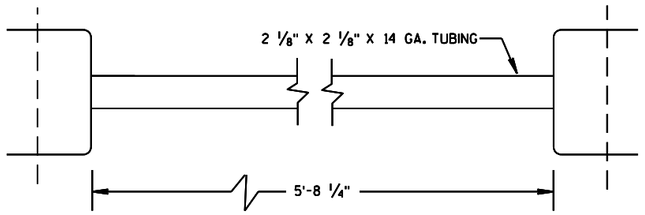


STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL

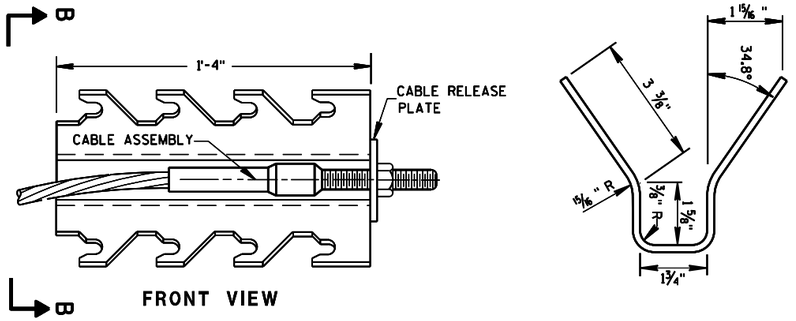
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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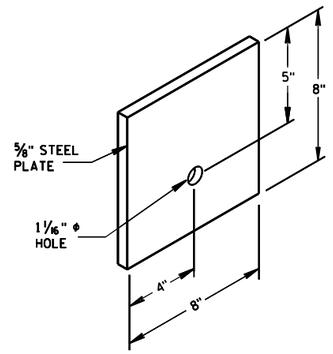
S.D.D. 14 B 24-9a



⑩ STRUT DETAIL



⑨ CABLE ANCHOR BOX



⑦ STEEL BEARING PLATE

6

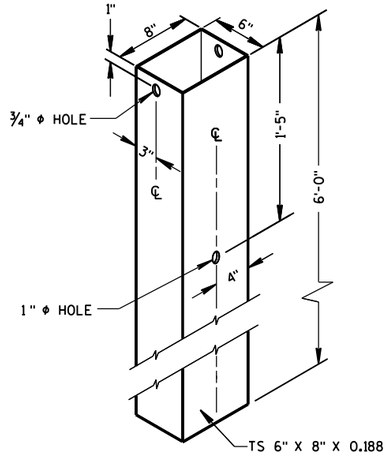
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S.D.D. 14 B 24-9b

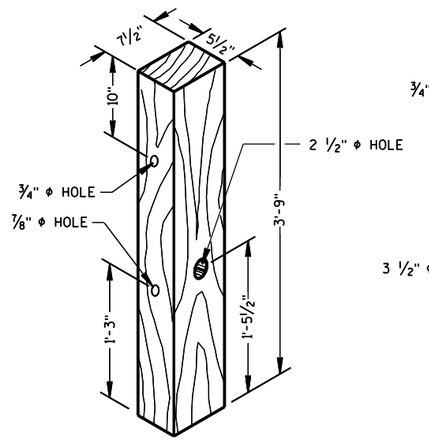
S.D.D. 14 B 24-9b

STEEL PLATE BEAM GUARD
ENERGY ABSORBING TERMINAL

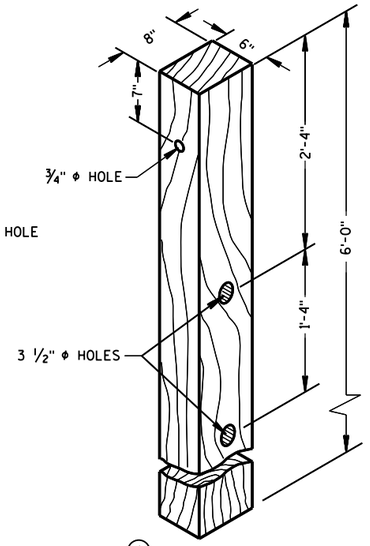
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI



② 72" STEEL TUBE
(POSTS NO. 1-4



① TERMINAL POST

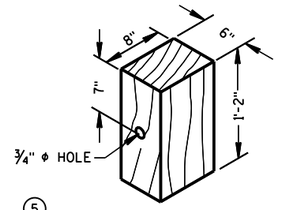


④ CRT POST
(POSTS NO'S 5-8)

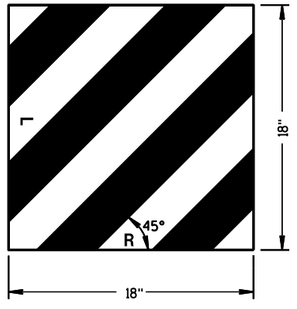
WOOD BREAKAWAY POSTS

GENERAL NOTES

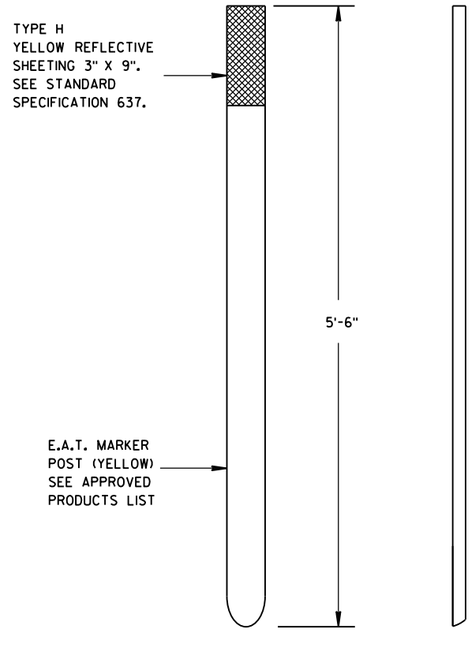
WHEN ROCK IS ENCOUNTERED DURING EXCAVATION, A 12 INCH DIA. POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK MAY BE USED IF APPROVED BY THE ENGINEER. GRANULAR MATERIAL SHALL BE PLACED IN THE BOTTOM OF THE HOLE APPROXIMATELY 2 ½" INCHES DEEP TO PROVIDE DRAINAGE. THE SOIL TUBES SHALL BE FIELD CUT TO LENGTH, PLACED IN THE HOLE AND BACKFILLED WITH ADEQUATELY COMPACTED MATERIAL EXCAVATED FROM THE HOLE.



⑤ WOOD OFFSET BLOCK
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



⑭ REFLECTIVE SHEETING DETAILS



E.A.T. MARKER POST

STEEL PLATE BEAM GUARD
ENERGY ABSORBING TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE
FHWA

/S/ Rodney Taylor
ROADWAY STANDARDS
UNIT SUPERV...

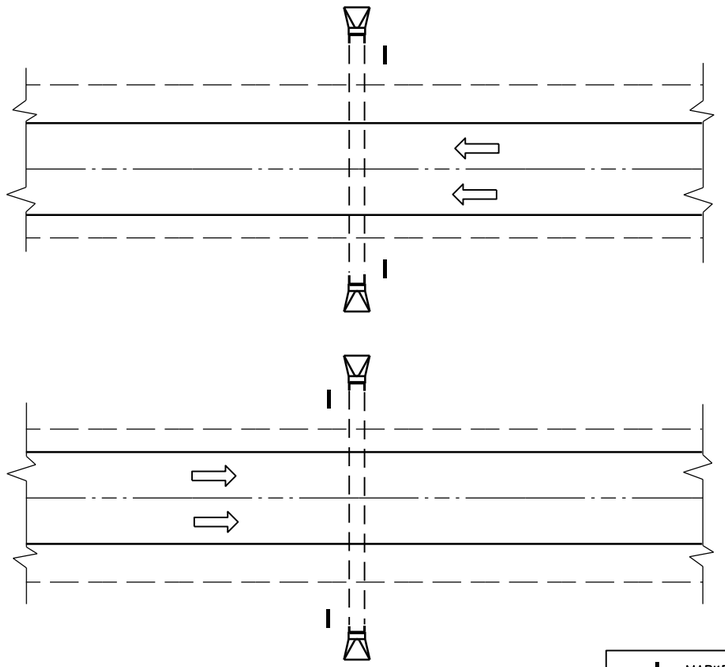
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S.D.D. 14 B 24-9c

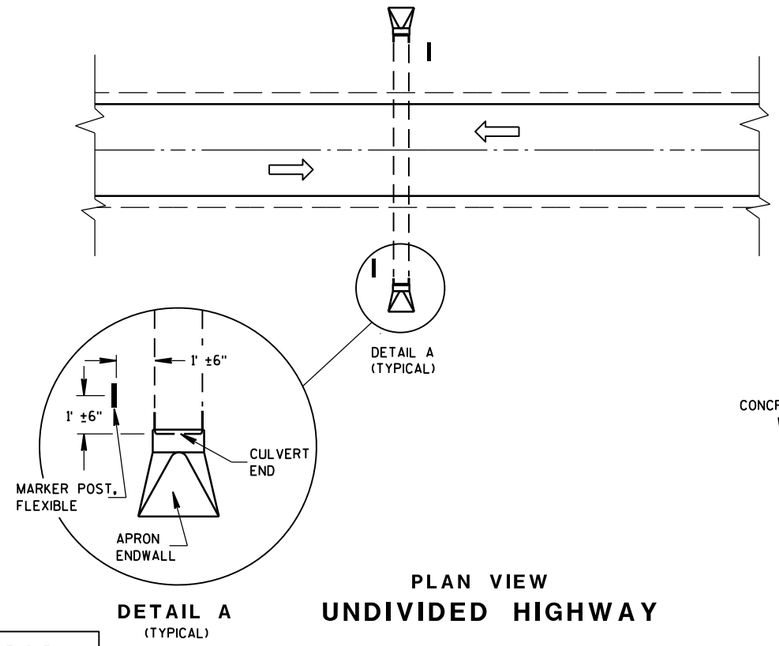
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S.D.D. 14 B 24-9c



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

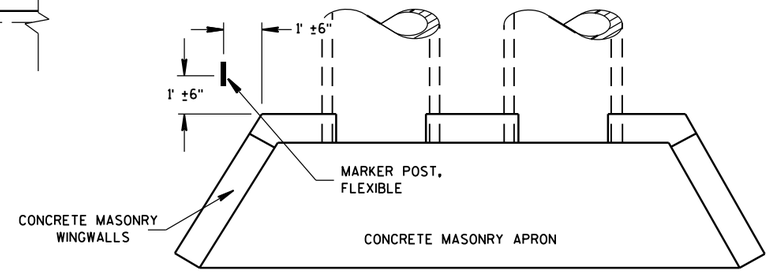
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

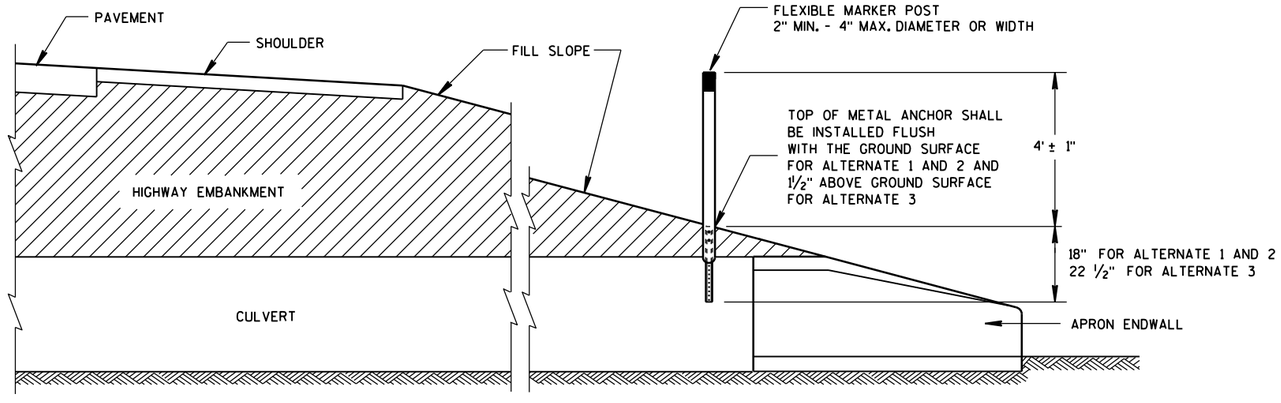
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

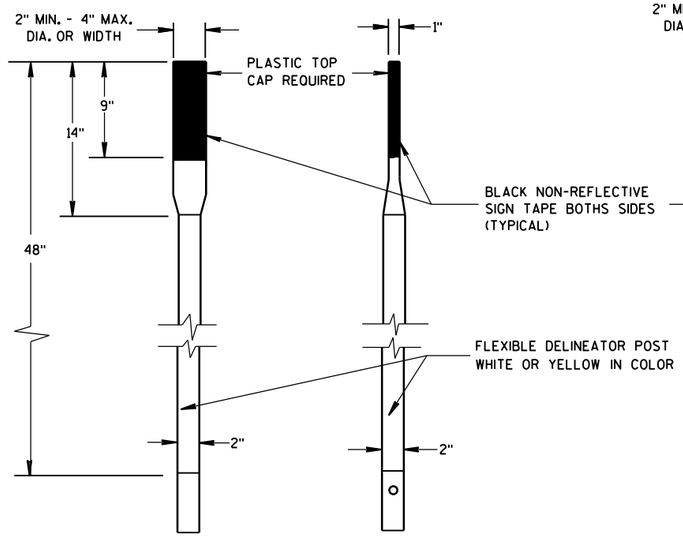
STATE OF WISCONSIN
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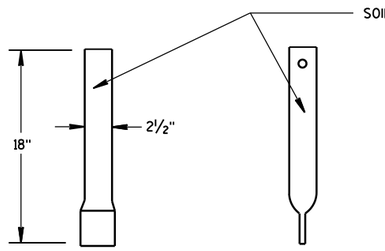
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S.D.D. 15 A 3-2a

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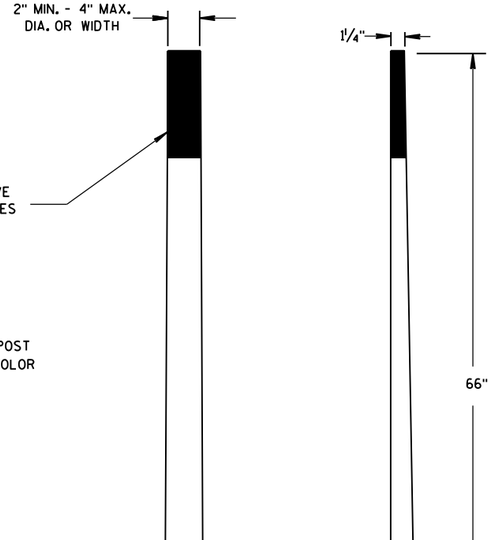
S.D.D. 15 A 3-2a





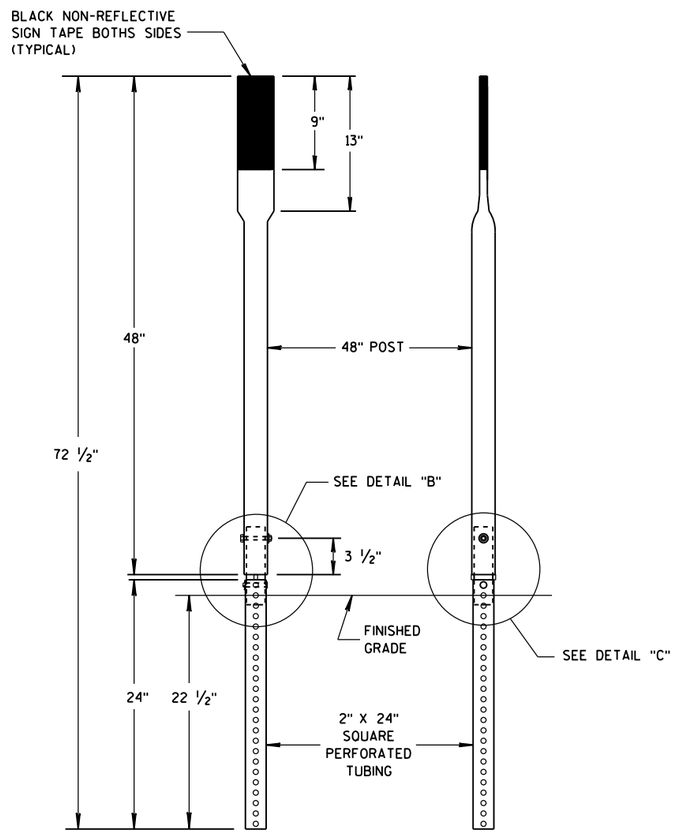
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

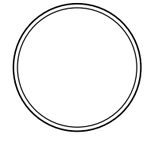
ALTERNATE 2



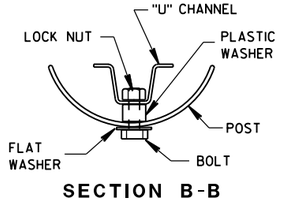
FRONT VIEW SIDE VIEW

ALTERNATE 3

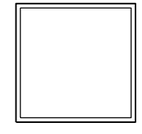
FLEXIBLE MARKER POSTS



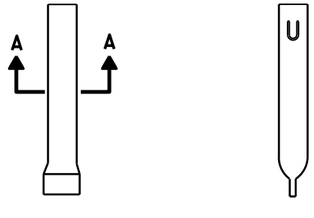
SECTION A-A



SECTION B-B

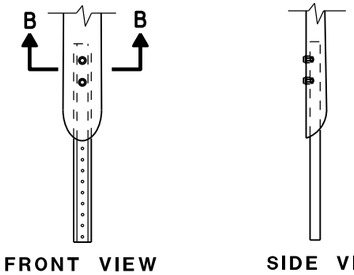


SECTION C-C



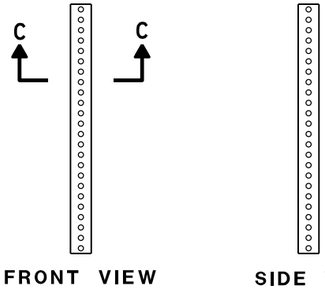
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

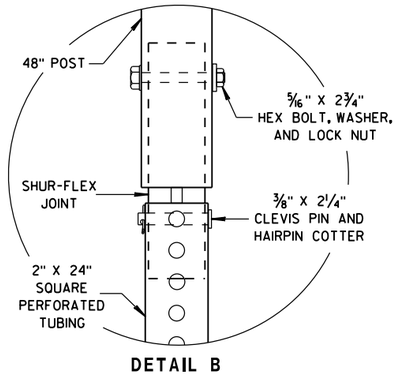
ALTERNATE 2



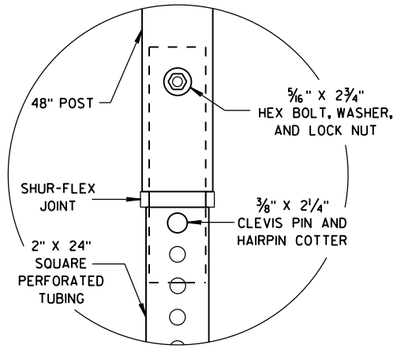
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/1/2012
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER
FHWA

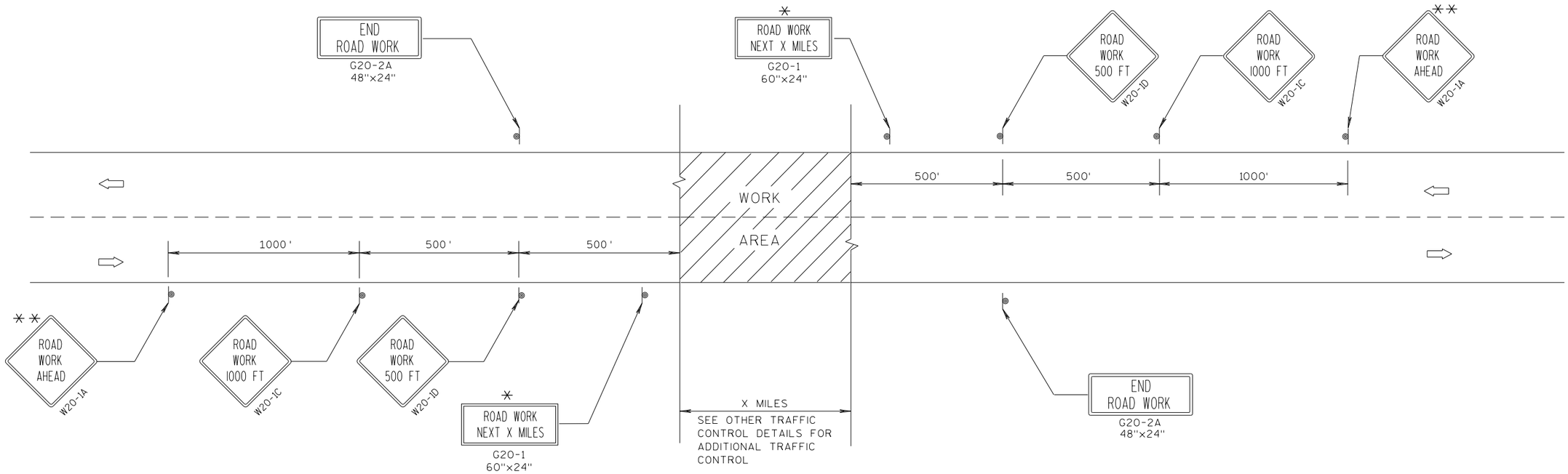
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S.D.D. 15 A 3-2b

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S.D.D. 15 A 3-2b

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 MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

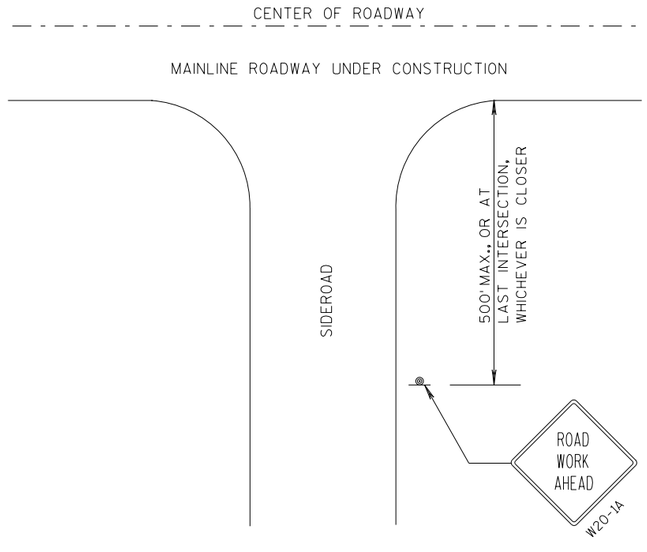
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

** PLACE ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018
DATE

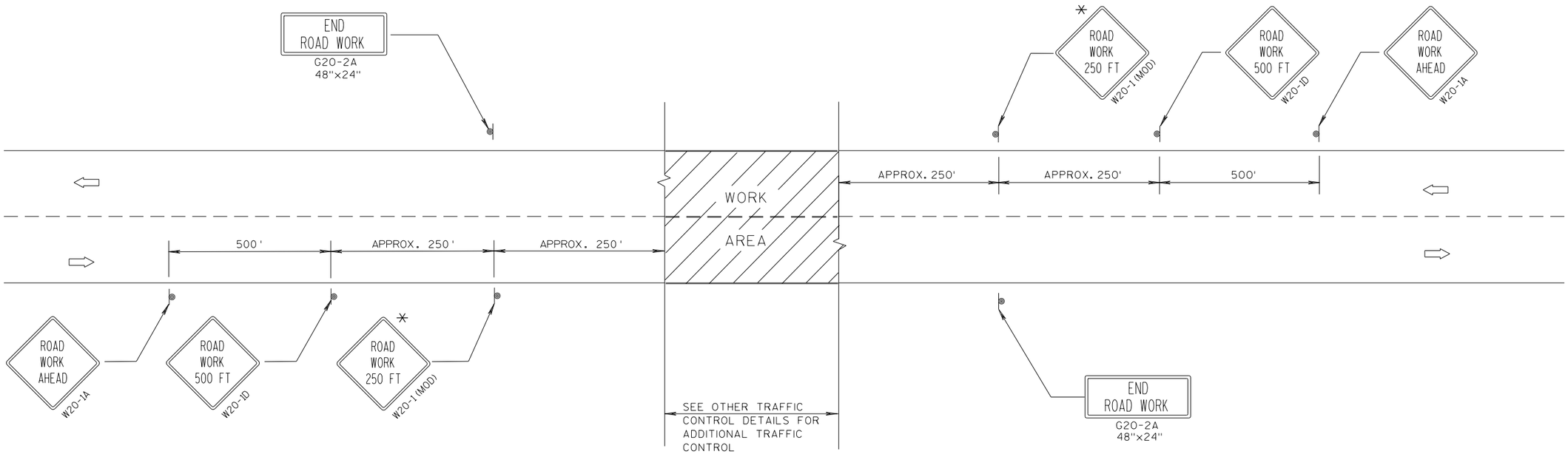
/S/ Andrew Heldtke
WORK ZONE ENGI

FHWA

6

S.D.D. 15 C 4-5

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.

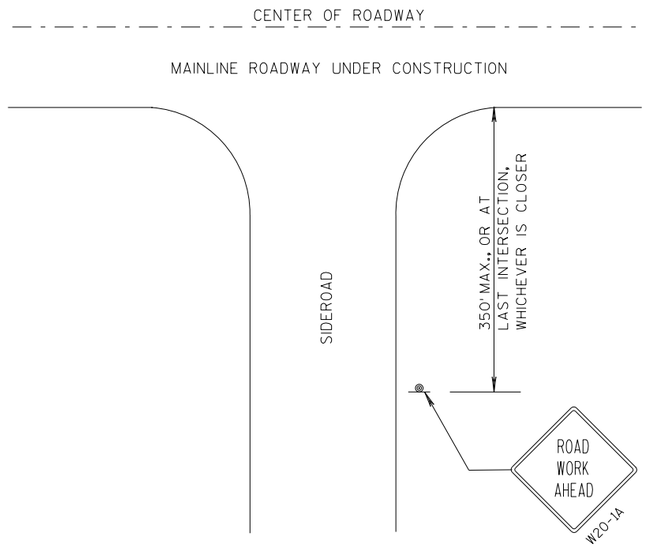
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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.

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

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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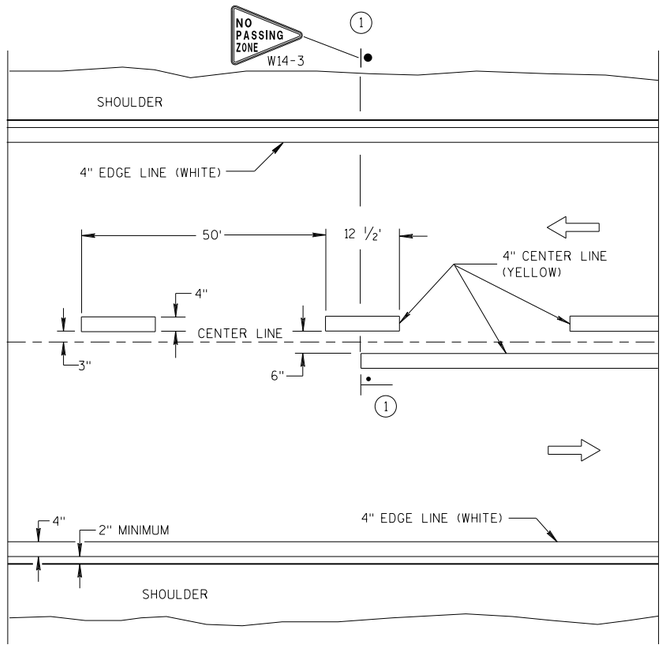
7/2018
DATE

/S/ Andrew Heldtke
WORK ZONE ENGI

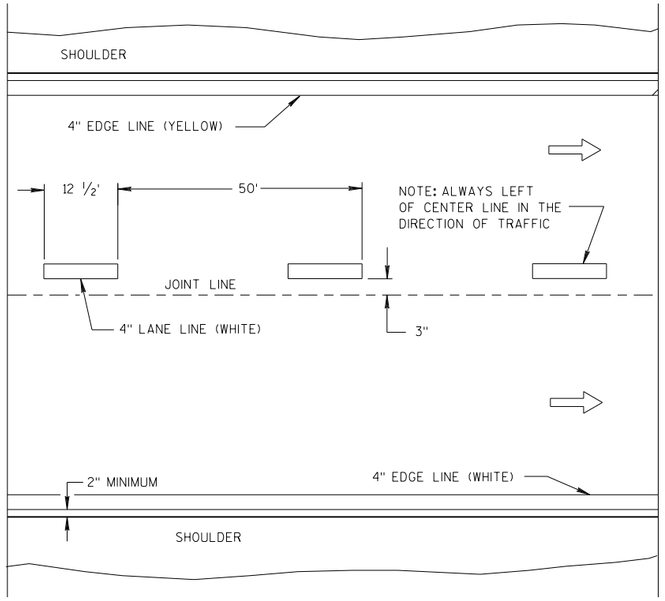
FHWA

6

S.D.D. 15 C 5-5



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

(1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING.

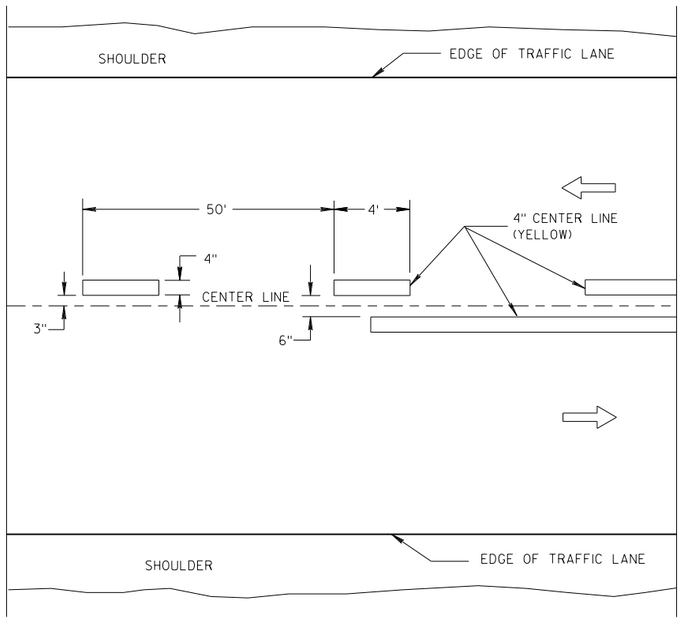
NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

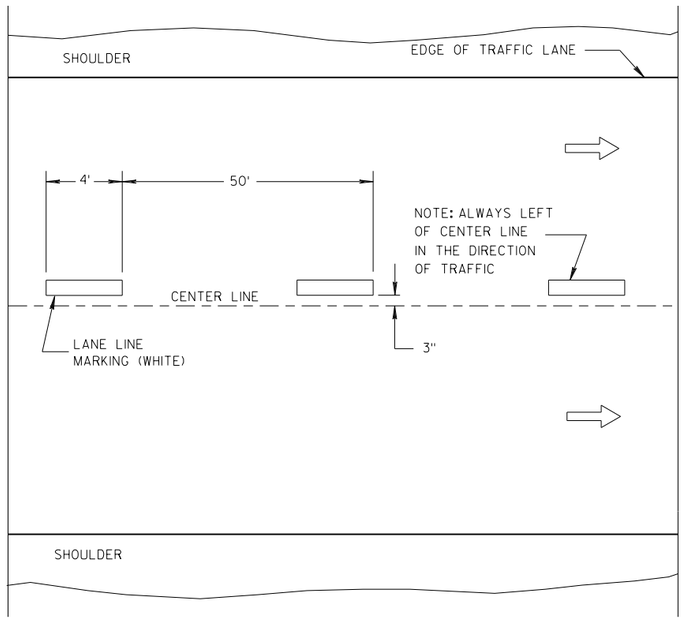
LEGEND

"T" MARKING

POST MOUNTED SIGN



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018 — DATE

/S/ Matthew R. Rauch — STATE SIGNING AND MARKING ENGINEER

FHWA

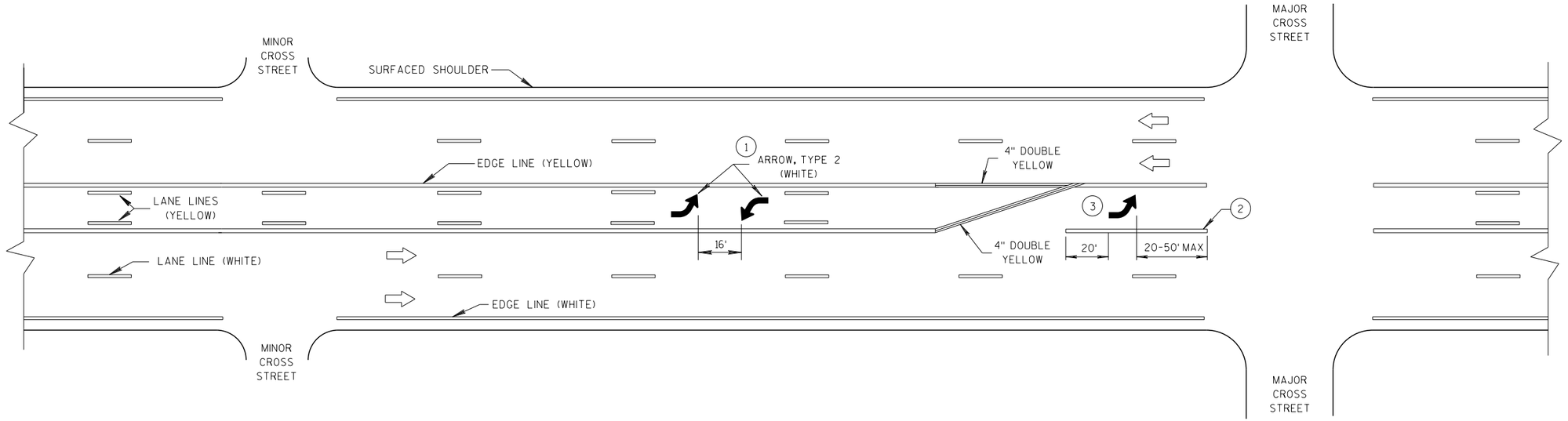
6

S.D.D. 15 C 8-19a

GENERAL NOTES

1. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
2. 8" WHITE
3. TURN BAY LENGTH OF LESS THAN 48'DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT

DIRECTION OF TRAFFIC



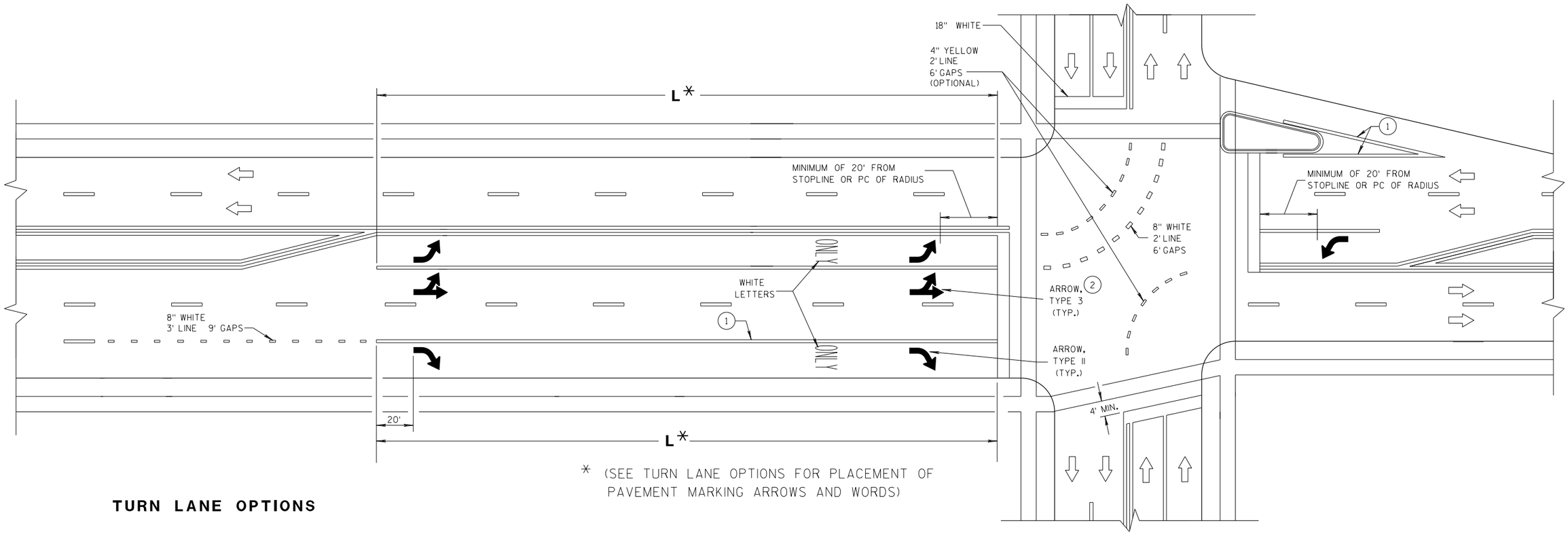
TWO WAY LEFT TURN LANE

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

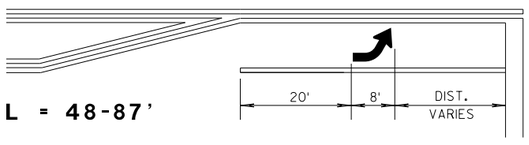
S.D.D. 15 C 8-19b



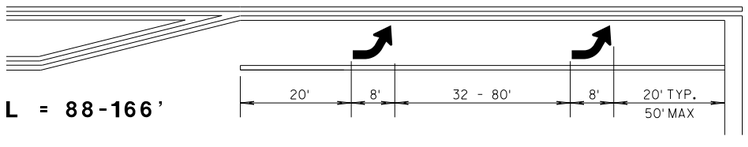
* (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

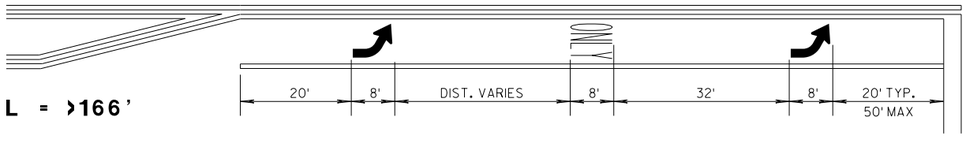
LENGTH OF TURN BAY (**L**) OF 0-47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48-87'



L = 88-166'



L = >166'

GENERAL NOTES

1. 8" WHITE
2. QUANTITY AND LOCATION OF TYPE 3 ARROW ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION, THE ARROWS AND ONLY MARKING ARE ELIMINATED.

⇨ DIRECTION OF TRAFFIC

L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)

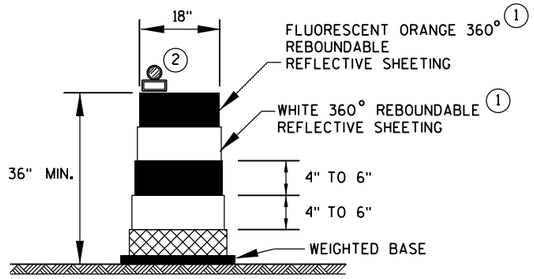
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORT

6

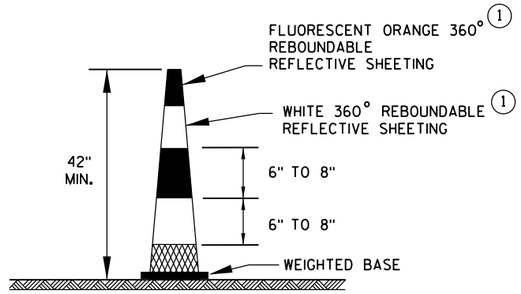
S.D.D. 15 C 8-19c

6

S.D.D. 15 C 8-19c



DRUM

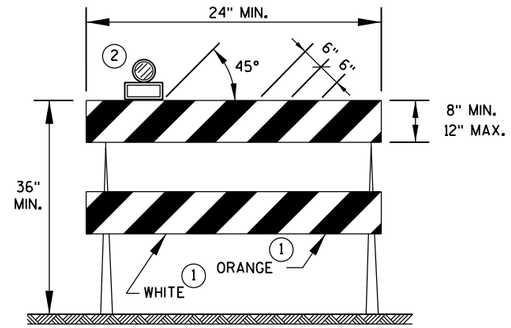


42" CONE

DO NOT USE IN TAPERS
1/2 SPACING OF DRUMS

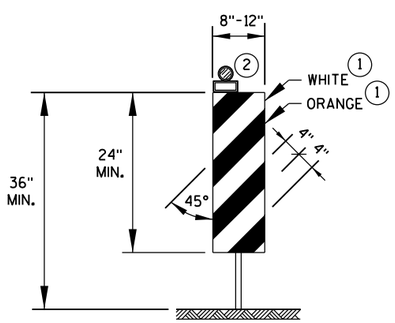
GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



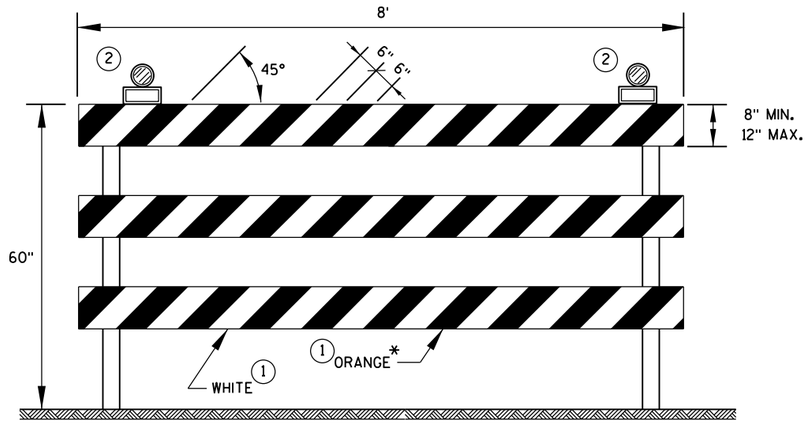
TYPE 2 BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE 3 BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION, USE RED SHEETING.

CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017	/S/ Andrew Heidtke
DATE	WORK ZONE ENG

FHWA

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S.D.D. 15 C 11-7b

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA

FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

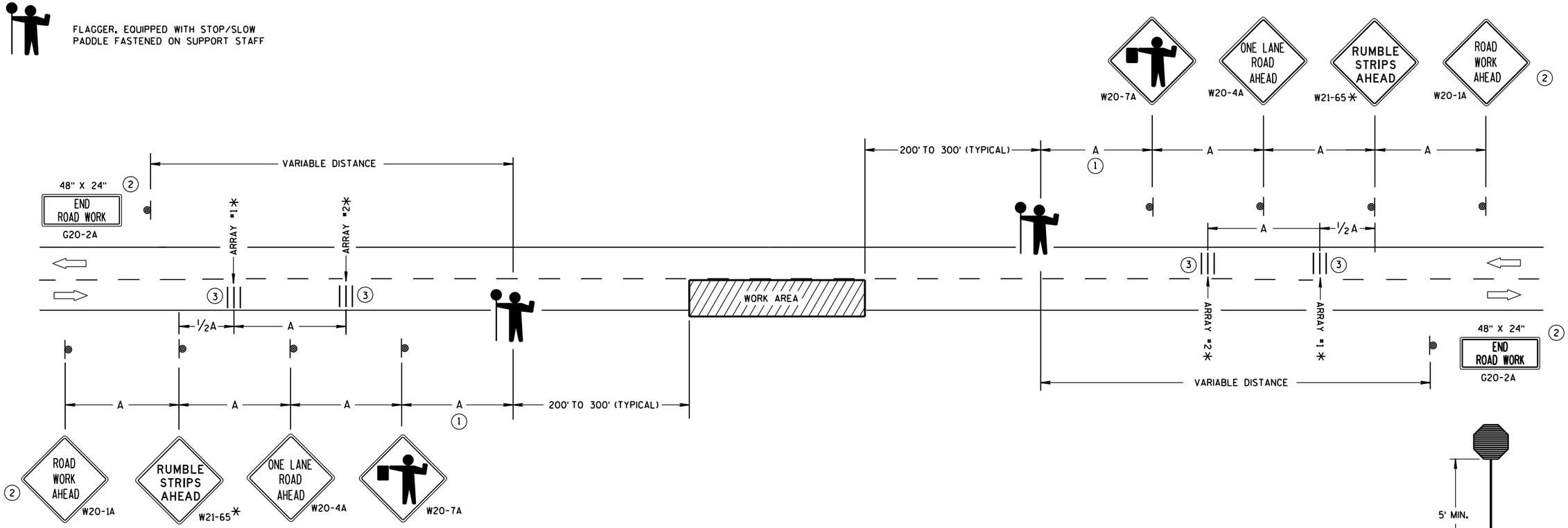
SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

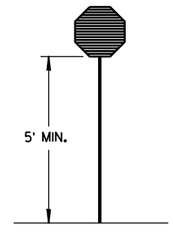
SPEED LIMIT	SPACING A
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



W03-4

USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING A.





STOP/SLOW PADDLE ON SUPPORT STAFF

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

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.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

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.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

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, REMOVE TEMPORARY RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

* UTILIZE TEMPORARY RUMBLE STRIPS WHEN FLAGGING OPERATION IS ANTICIPATED TO BE STATIONARY IN EXCESS OF TWO HOURS.

(1) FOR A MOVING WORK OPERATION, SIGNING AND TEMPORARY RUMBLE STRIPS (IF USED) SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3,500 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.

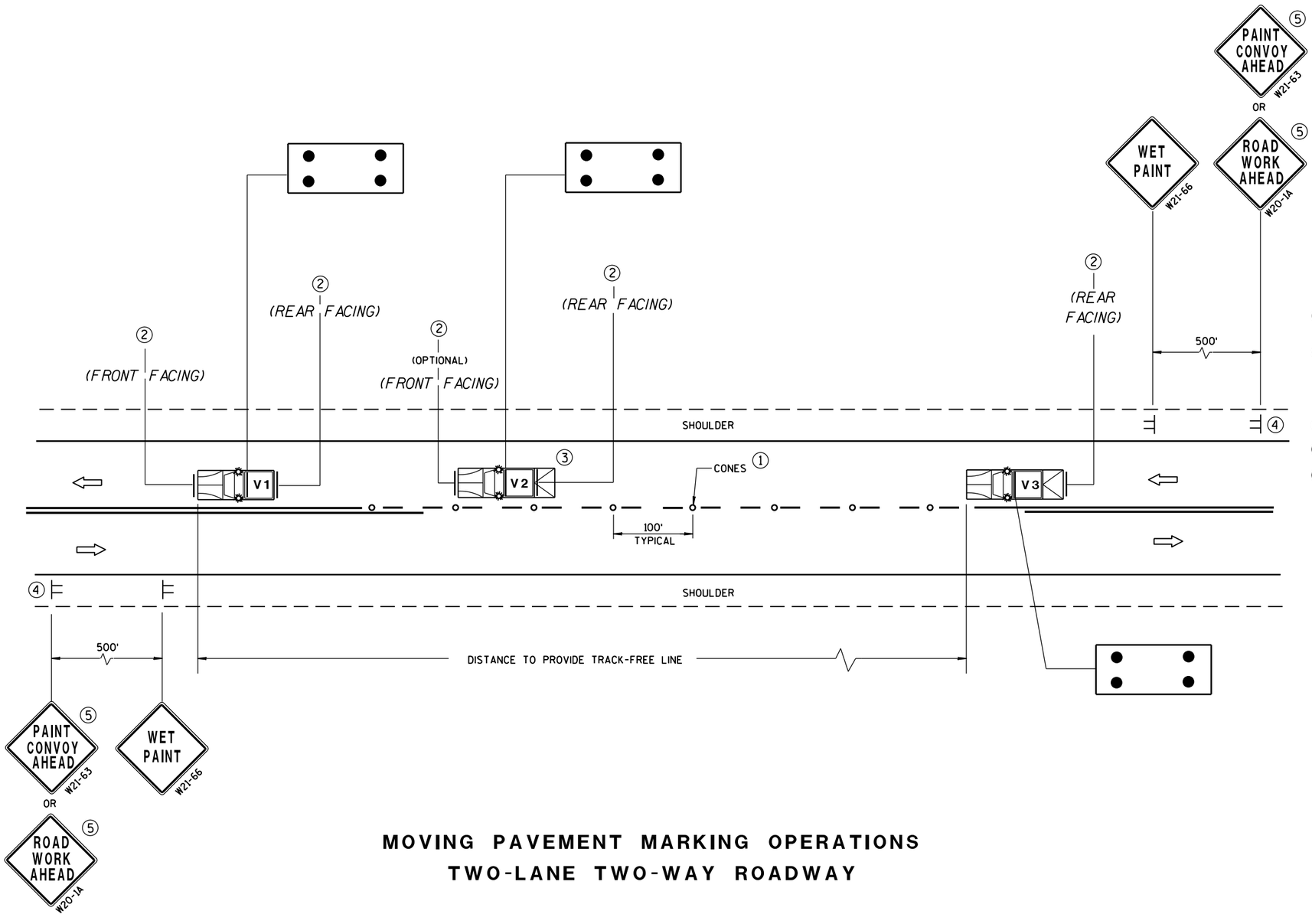
(3) EACH TEMPORARY RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE
/S/ Andrew Heldtke
WORK ZONE ENG
FHWA

6
S.D.D. 15 C 12-6



MOVING PAVEMENT MARKING OPERATIONS
TWO-LANE TWO-WAY ROADWAY

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE MARKING.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

(1) CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

(2) USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.

WET PAINT W21-64 OR WET PAINT W21-64

(3) OPTIONAL TRUCK-MOUNTED ATTENUATOR.

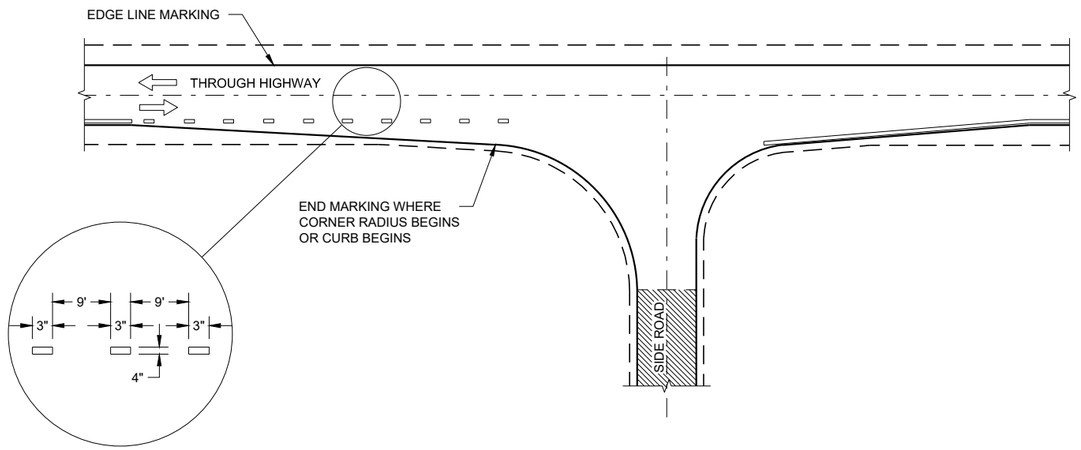
(4) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

(5) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

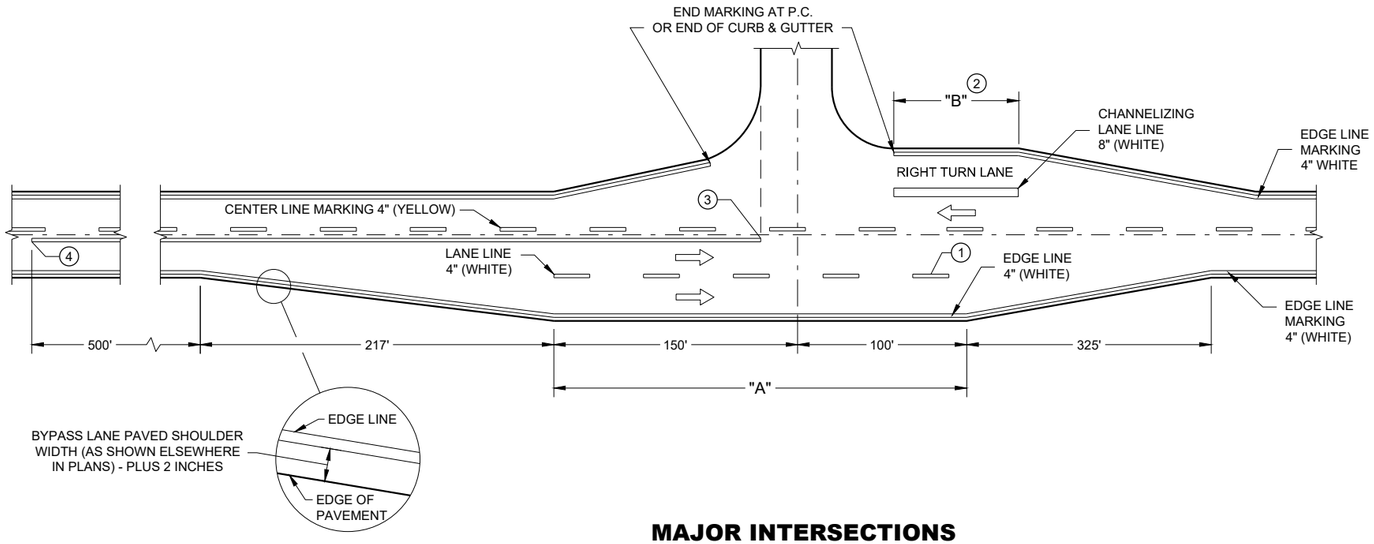
LEGEND

- **V1** LEAD VEHICLE
- **V2** SHADOW VEHICLE
- **V3** TRAIL VEHICLE WITH TMA
- **TMA** TRUCK-MOUNTED ATTENUATOR
- SIGN ON TEMPORARY SUPPORT
- DIRECTION OF TRAFFIC
- CONES
- FLASHING ARROW PANEL (CAUTION)

MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
Sept., 2017 DATE	/S/ Andrew Heldtke WORK ZONE ENGR
FHWA	



MINOR INTERSECTION



MAJOR INTERSECTIONS

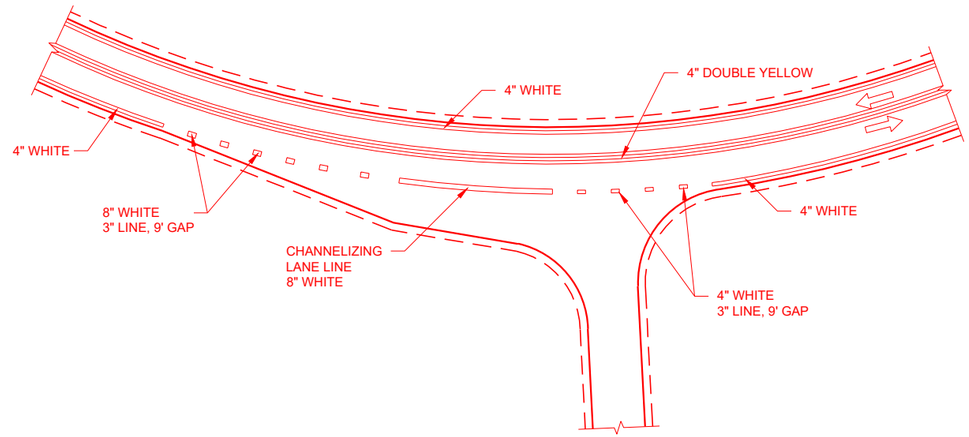
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

GENERAL NOTES

OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES 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. BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
4. BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



INTERSECTION ON OUTSIDE OF CURVE

PAVEMENT MARKING (INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15C35 - 03a

6

SDD 15C35 - 03a

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

TABLE A

S \ W	SHOULDER TAPER LENGTH (FEET) 4	6	8	10	BUFFER SPACE (FEET)
30	20	30	40	50	200
35	30	45	55	70	250
40	40	55	75	90	305
45	60	90	120	150	360
50	70	100	135	170	425
55	75	110	150	185	495

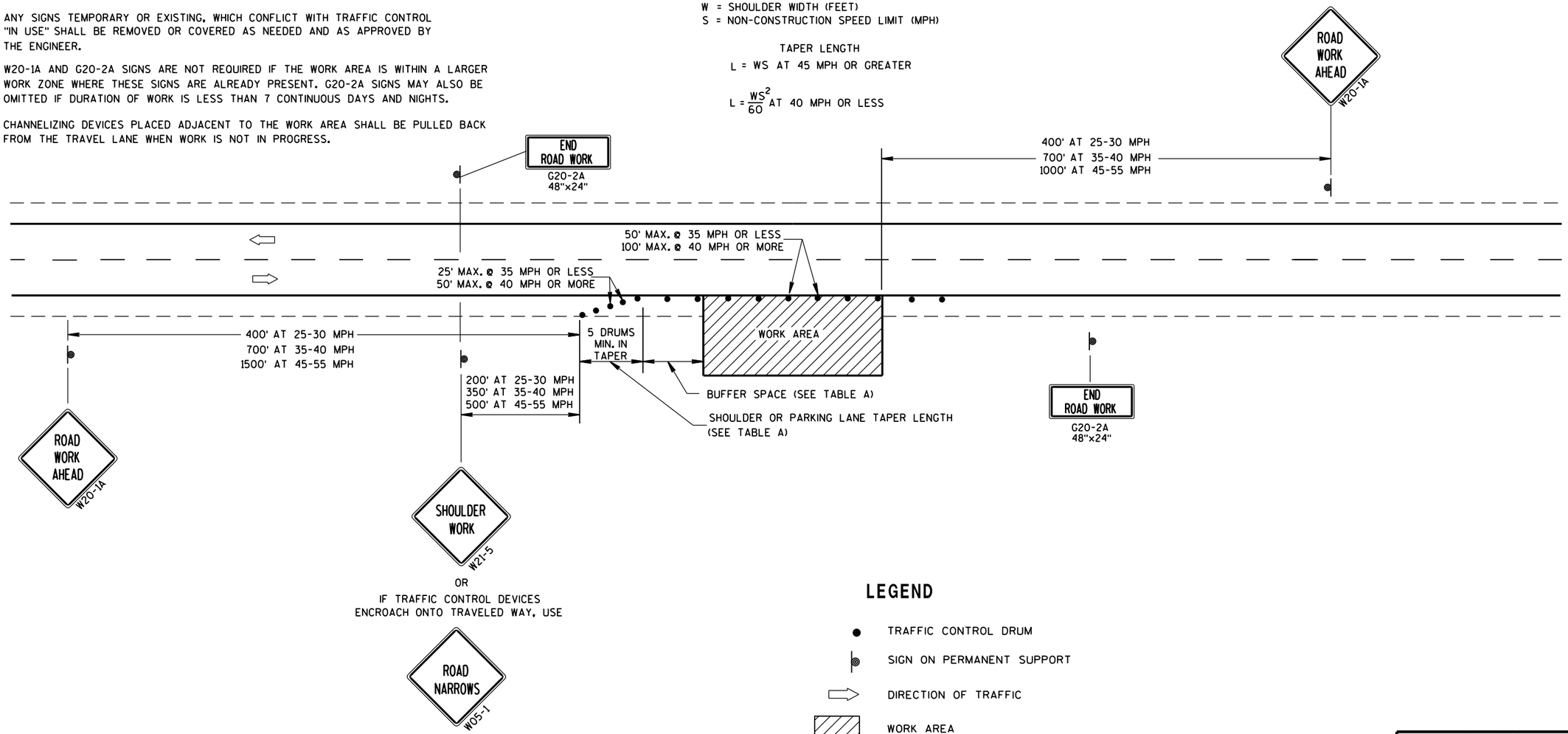
W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

TAPER LENGTH

L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

SHOULDER TAPER LENGTH = $\frac{1}{3}L$



LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

July 14, 2015 — DATE

/S/ Peter Amakobe Atepe — STATEWIDE WORK ZO[illegible] SAFETY ENGI[illegible] FIC

FHWA

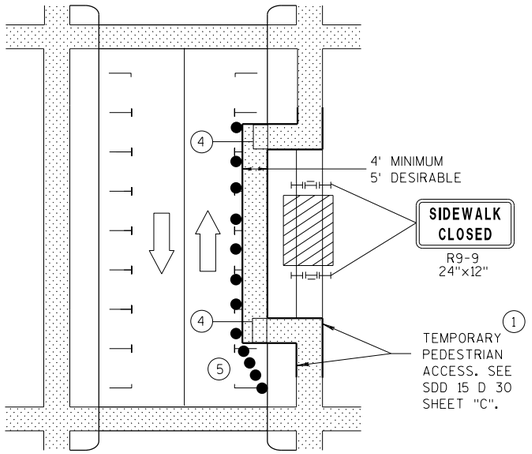
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S.D.D. 15 D 28-3

6

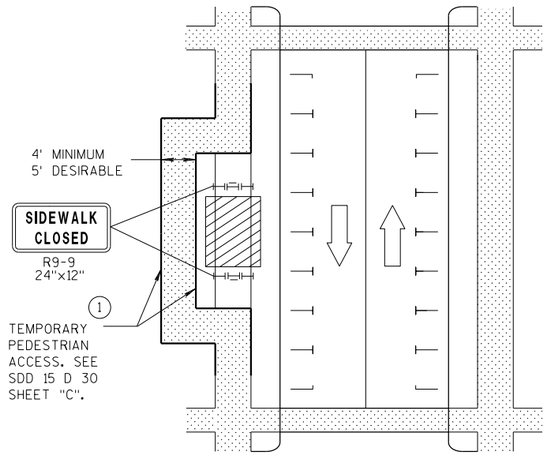
S.D.D. 15 D 28-3

NOTE: MAY BE USED ON ROADWAY WITH POSTED SPEED OF LESS THAN 40 MPH.

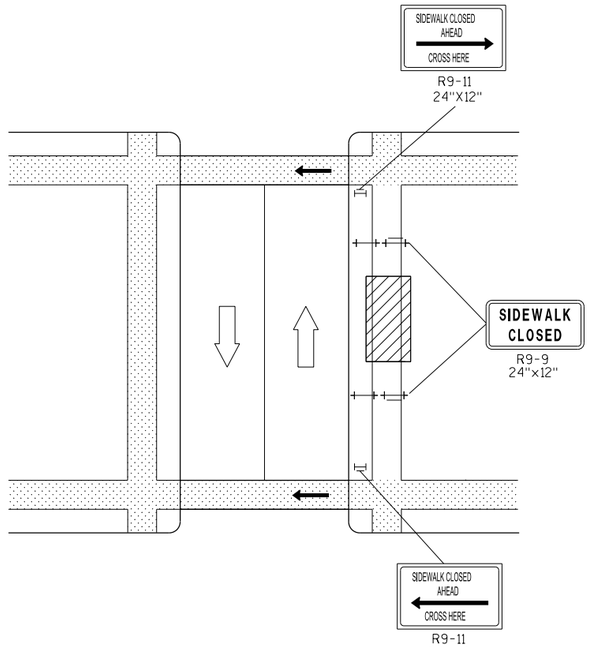


MID-BLOCK SIDEWALK CLOSURE IN PARKING LANE

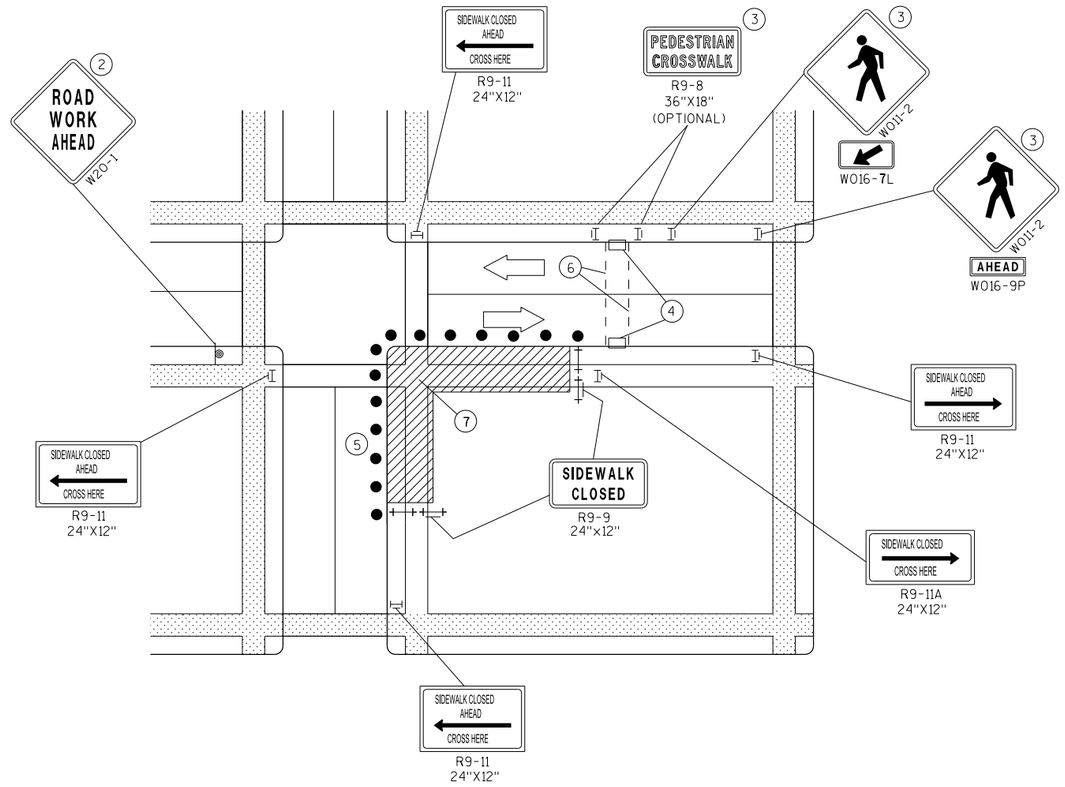
NOTE: LAYOUT SAME AS ABOVE.



SIDEWALK DIVERSION



MID-BLOCK SIDEWALK CLOSURE



CORNER SIDEWALK CLOSURE WITH TEMPORARY CROSSWALK

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK, AS NECESSARY, TO PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

FOR NIGHTTIME CLOSURE USE TYPE "A" FLASHING WARNING LIGHTS ON BARRICADES, SUPPORTING SIGNS AND CLOSING SIDEWALK. USE TYPE "C" STEADY BURN LIGHTS ON CHANNELIZING DEVICES SEPARATING THE WORK AREA FROM VEHICULAR TRAFFIC.

PEDESTRIAN TRAFFIC SIGNAL DISPLAY CONTROLLING CLOSED CROSSWALK SHALL BE COVERED OR DEACTIVATED.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

(1) IF SIDEWALK CLOSURE AFFECTS AN ACCESSIBLE AND DETECTABLE FACILITY, MAINTAIN ACCESSIBILITY AND DETECTABILITY ALONG THE ALTERNATE PEDESTRIAN ROUTE.

(2) "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.

(3) IF TEMPORARY PEDESTRIAN CROSSWALK IS NOT PROVIDED, OMIT R9-8 AND W011-2 SIGN ASSEMBLIES. IF PROVIDED INCLUDE ON BOTH SIDES OF THE CROSSWALK.

(4) TEMPORARY CURB RAMPS. SEE SDD 15 D 30 SHEET "B".

(5) DRUMS OR BARRICADES AT 25 FOOT SPACING. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.

(6) TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.

(7) LIMIT WORK TO ONE QUADRANT AT A TIME TO MINIMIZE PEDESTRIAN DISRUPTION.

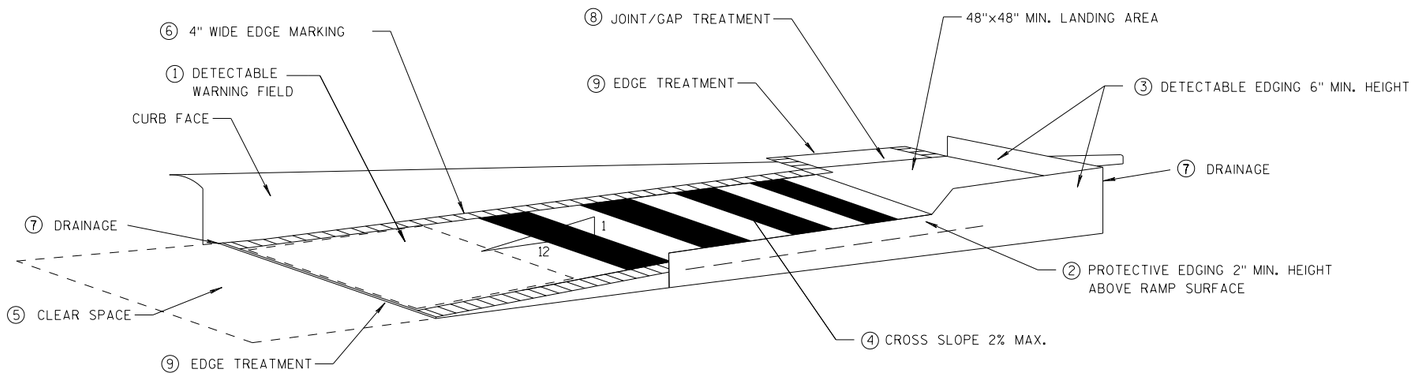
LEGEND

- SIGN ON PERMANENT SUPPORT
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- PEDESTRIAN CHANNELIZATION DEVICE
- TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)
- TYPE III BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)
- DIRECTION OF TRAFFIC
- TRAFFIC CONTOL DRUM

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

6

S.D.D. 15 D 30-4a



TEMPORARY CURB RAMP PARALLEL TO CURB

GENERAL NOTES

NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

① CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE. INSTALL CONTRASTING DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS. REFER TO SDD 8D5 SHEET "E".

② PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

③ DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

④ CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

⑤ CLEAR SPACE OF 48"X48" MIN. SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.

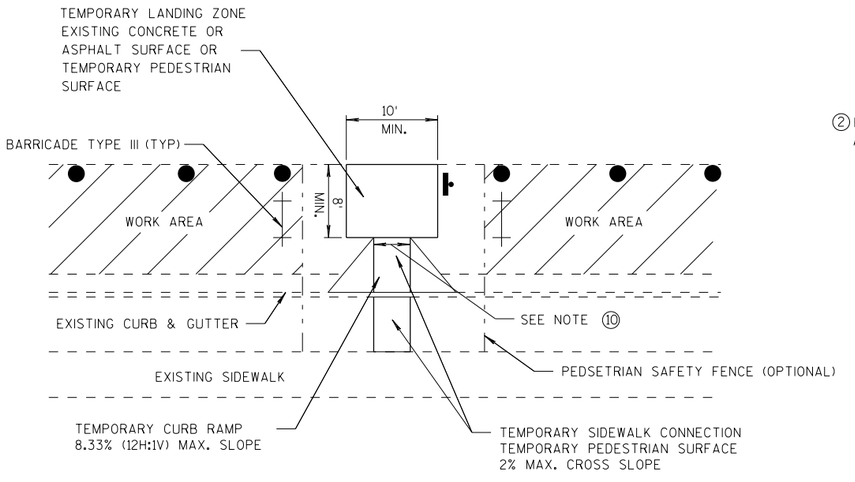
⑥ THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A YELLOW COLOR, 4" WIDE MARKING, UNLESS A CONTRASTING DETECTABLE WARNING FIELD IS PROVIDED.

⑦ DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

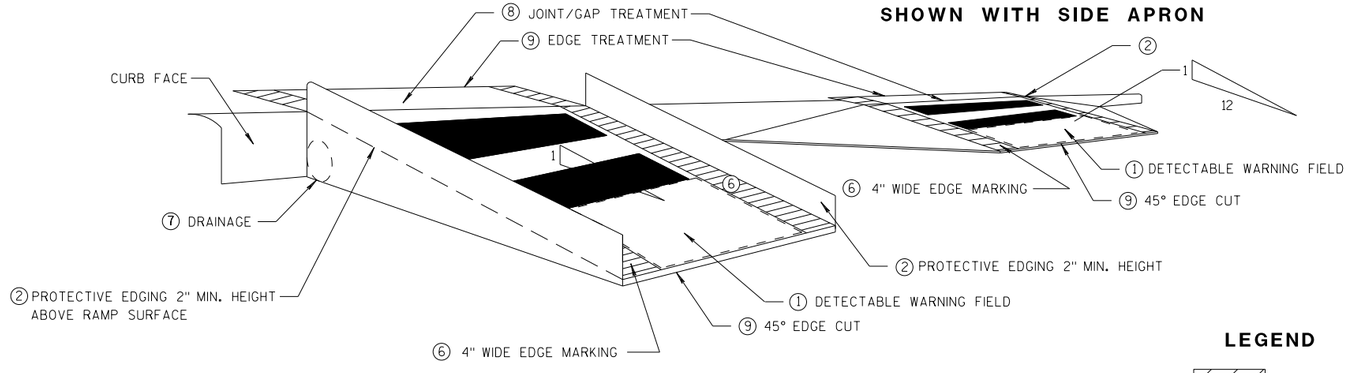
⑧ LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 1/2" WIDTH.

⑨ CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED 1/2". LATERAL EDGES SHALL BE VERTICAL UP TO 1/4" HIGH, AND BEVELED AT 1:2 BETWEEN 1/4" AND 1/2".

⑩ 5' WIDE MIN. WITH PEDSETRIAN SAFETY FENCE, 10' WIDE MIN. WITHOUT PEDESTRIAN SAFETY FENCE.



TEMPORARY BUS STOP PAD



SHOWN WITH SIDE APRON

SHOWN WITH PROTECTIVE EDGE

TEMPORARY CURB RAMP PERPENDICULAR TO CURB

LEGEND

WORK AREA

TYPE III BARRICADE

TRAFFIC CONTOL DRUM

TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

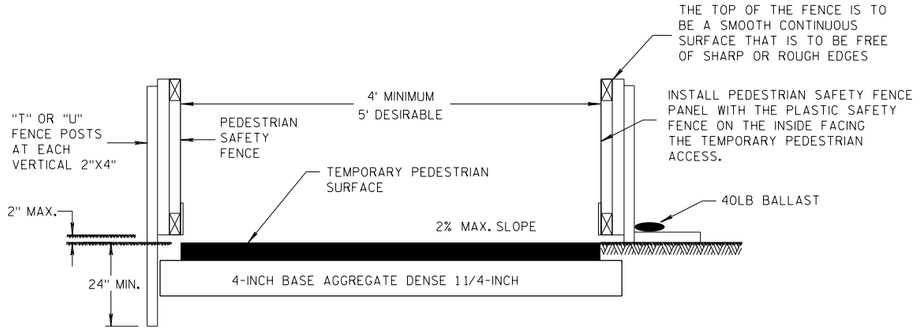
7/2018 DATE

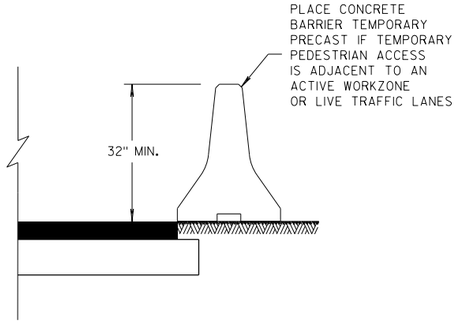
/S/ Andrew Heidtke
WORK ZONE ENG

FHWA

6

S.D.D. 15 D 30-4b

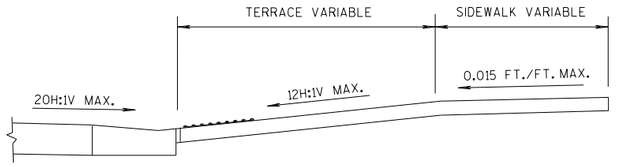




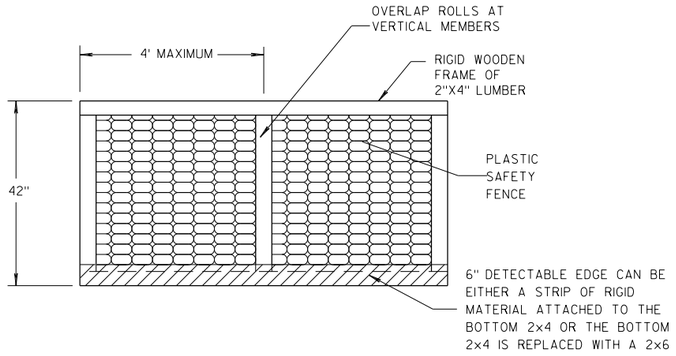
TEMPORARY PEDESTRIAN ACCESS

GENERAL NOTES

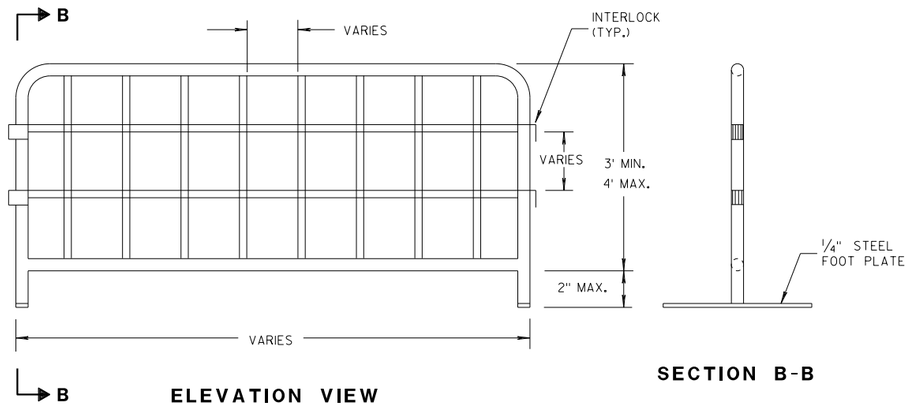
(1) INTERCHANGEABLE WITH THE PEDESTRIAN SAFETY FENCE.



SECTION A-A



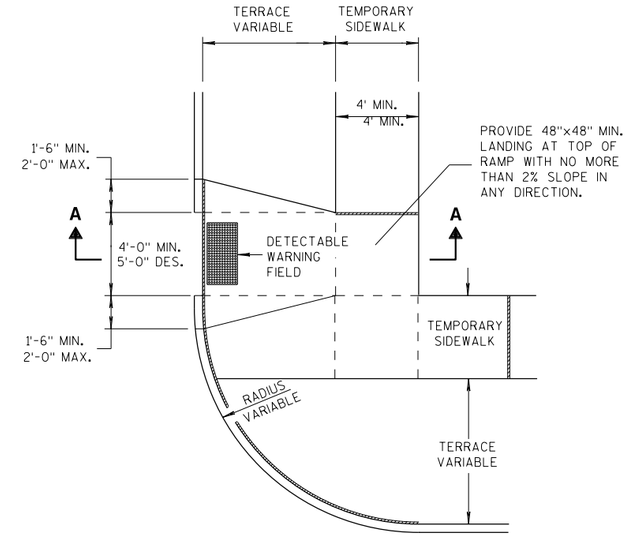
PEDESTRIAN SAFETY FENCE



ELEVATION VIEW

SECTION B-B

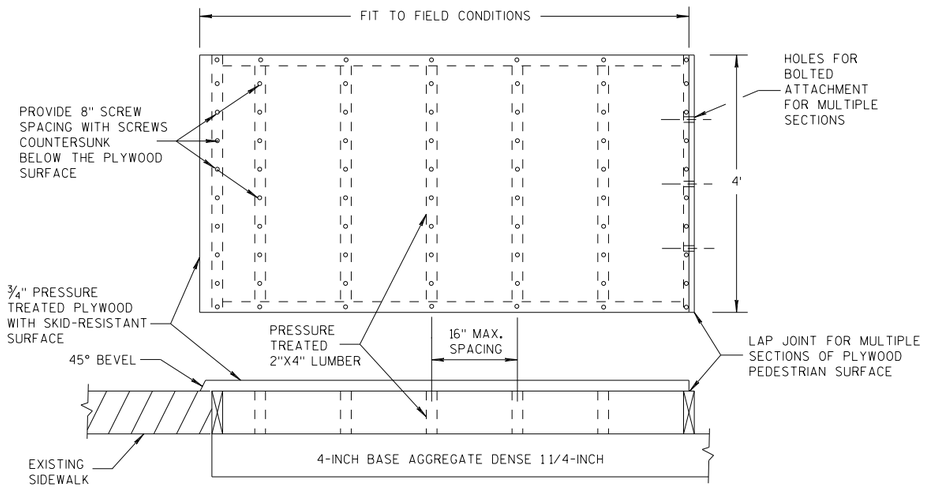
TEMPORARY PEDESTRIAN STEEL BARRICADE (1)



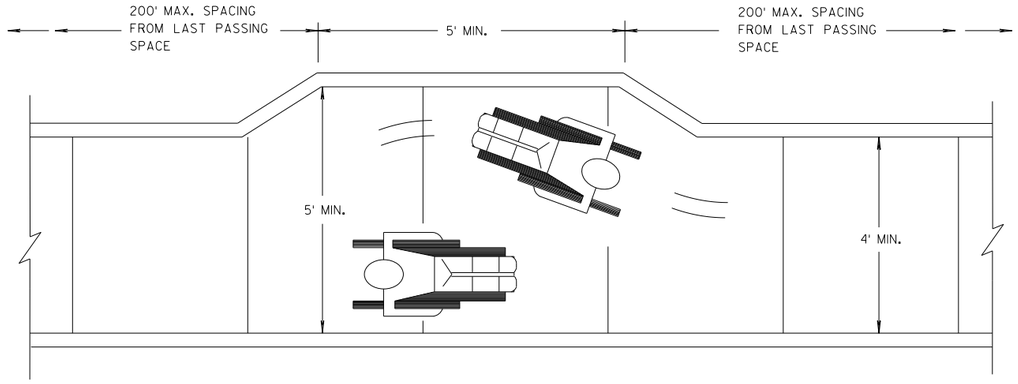
PLAN VIEW

TEMPORARY TYPE 3 RAMP

(OUTSIDE OF CROSSWALK AREA)



TEMPORARY PEDESTRIAN SURFACE PLYWOOD



NARROW SIDEWALK PASSING DETAIL

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

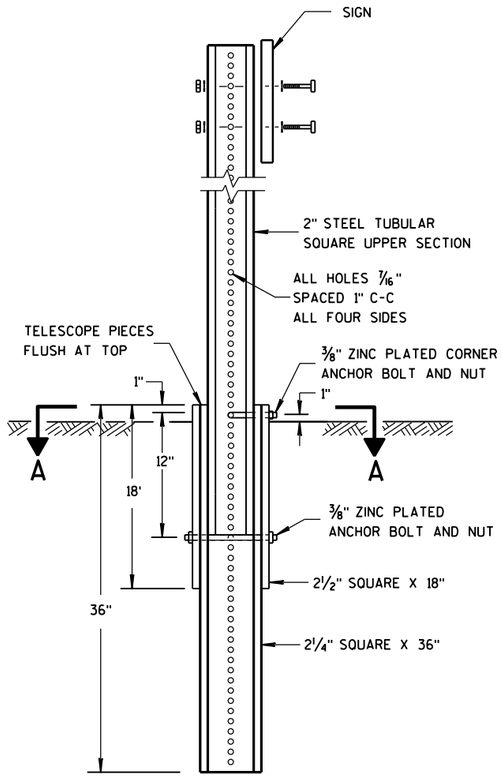
APPROVED

7/2018
DATE

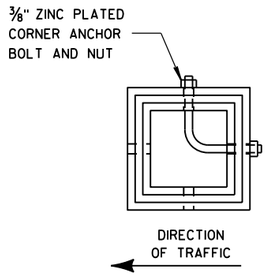
/S/ Andrew Heidtke
WORK ZONE ENG

FHWA

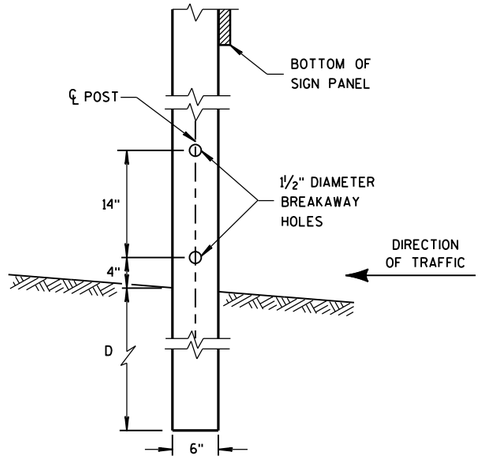
6
S.D.D. 15 D 30-4c



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



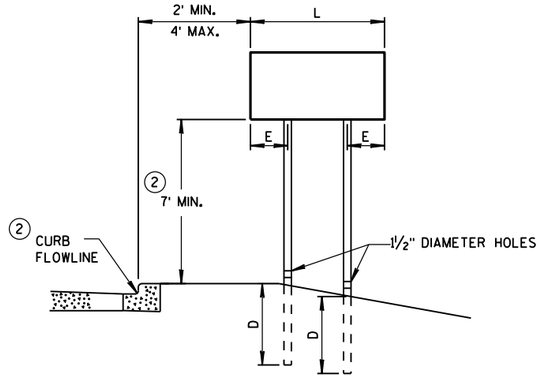
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

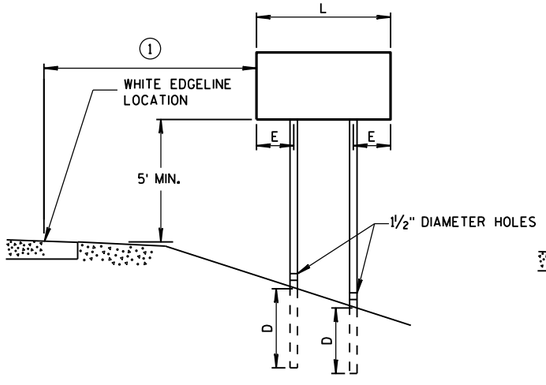
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

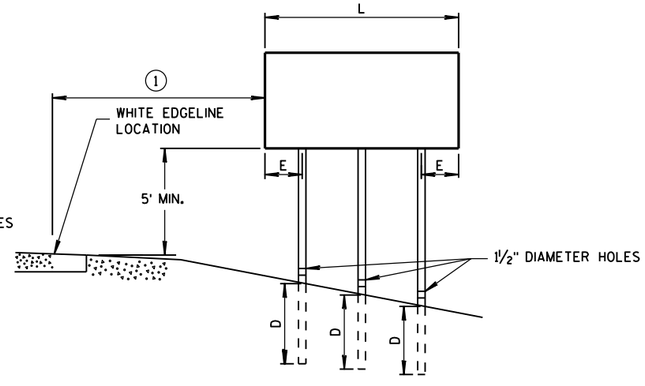
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

(3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

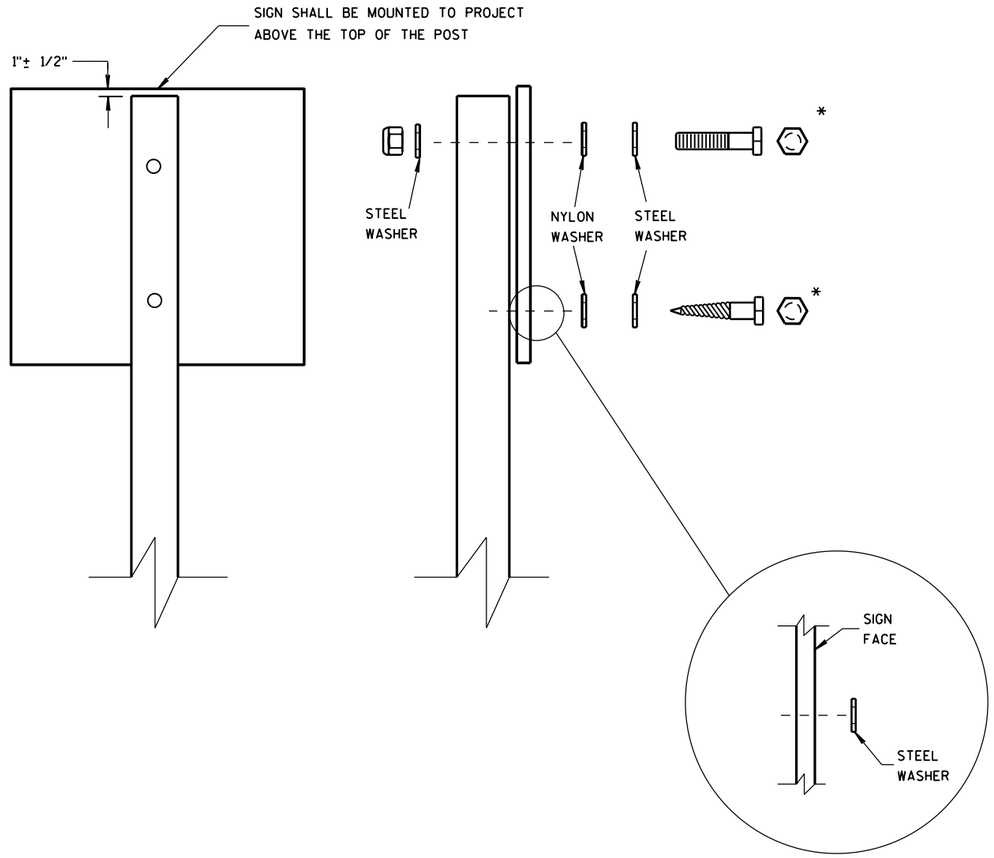
SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 15 D 38-2a



WASHER PLACEMENT WHEN SIGN HAS OTHER THAN TYPE H OR TYPE F FACE

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

* 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. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

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S.D.D. 15 D 38-2b

S.D.D. 15 D 38-2b

ATTACHMENT OF SIGNS TO POSTS

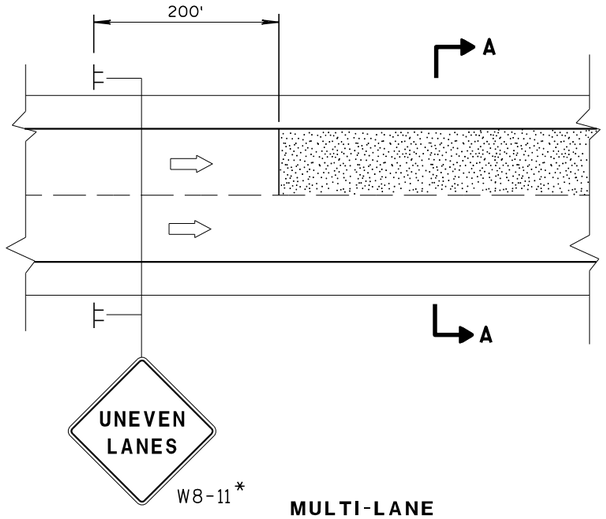
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

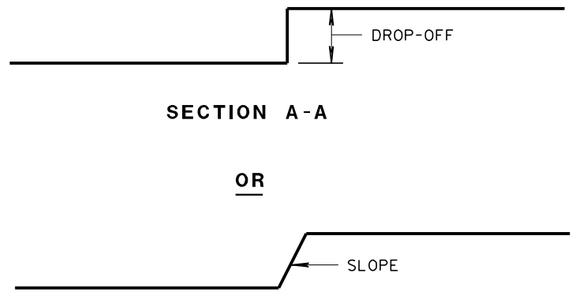
June 2017
DATE

/S/ Andrew Heldtke
WORK ZONE ENG

FHWA



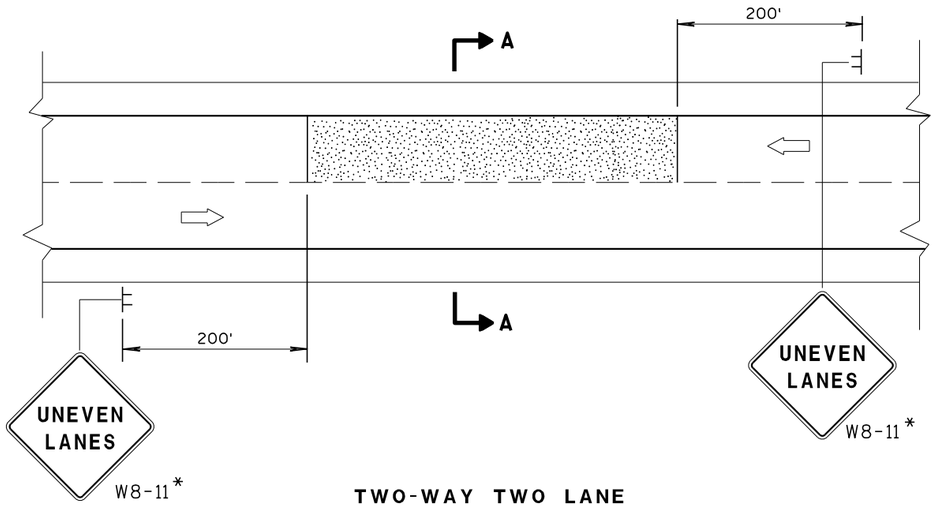
MULTI-LANE



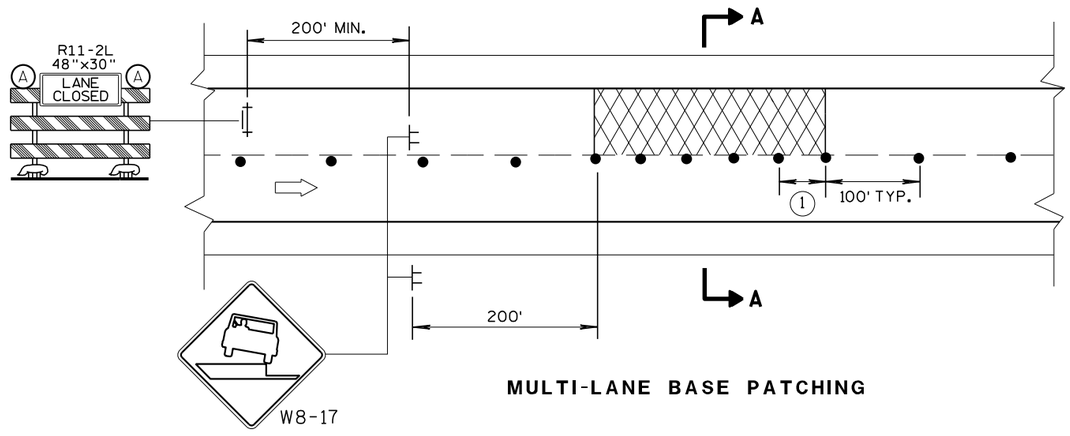
SECTION A-A

OR

SECTION A-A

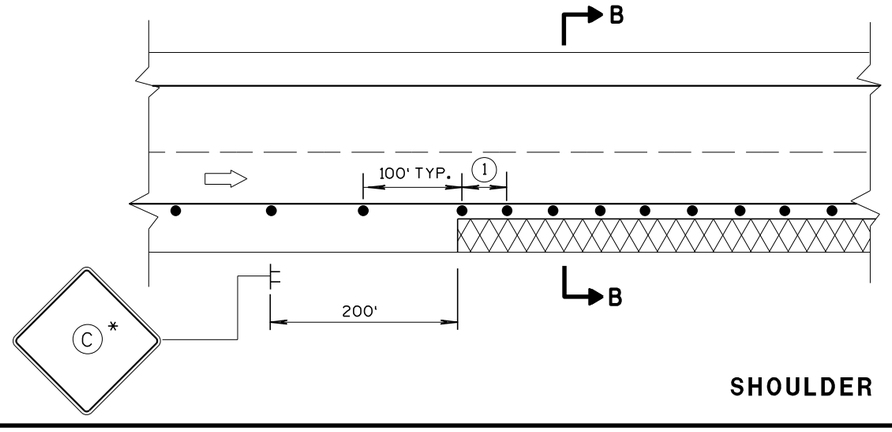


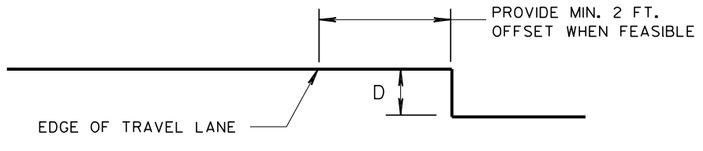
TWO-WAY TWO LANE



MULTI-LANE BASE PATCHING

ADJACENT LANE DROP-OFFS





SECTION B-B

SHOULDER DROP-OFFS

GENERAL NOTES

FOR SPOT LOCATIONS USE ENGINEERING JUDGEMENT WHEN PLACING ADDITIONAL SIGNS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

* IF THE DROP-OFF IS CONTINUOUS ALONG THE PROJECT, PLACE ADDITIONAL SIGNS EVERY 1 MILE AND AFTER EACH ENTRANCE RAMP.

(1) USE CLOSER SPACING WHEN DELINEATING DROP-OFF.

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA WITH DROP-OFF
- MILLED SURFACE

D	SIGN (C)
< 2" WITH A SLOPE STEEPER THAN 3:1	LOW SHOULDER WO8-9
2" < 6" WITH A SLOPE STEEPER THAN 3:1	SHOULDER DROP-OFF W8-9A PROVIDE A 3:1 OR FLATTER SLOPE OF MATERIAL ADJACENT TO THE PAVEMENT

TRAFFIC CONTROL, DROP-OFF SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Andrew H — WORK ZONE EN
FHWA

6

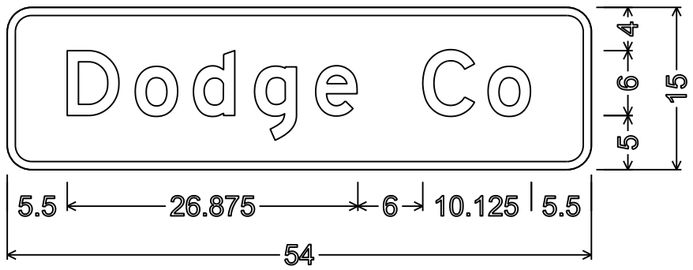
S.D.D. 15 D 39-2

6

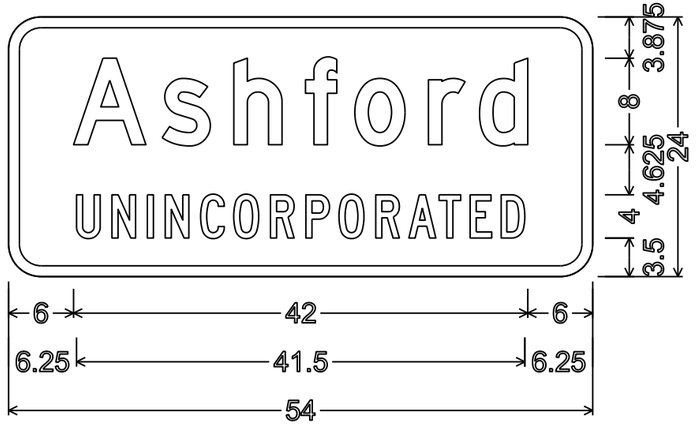
S.D.D. 15 D 39-2

NOTES

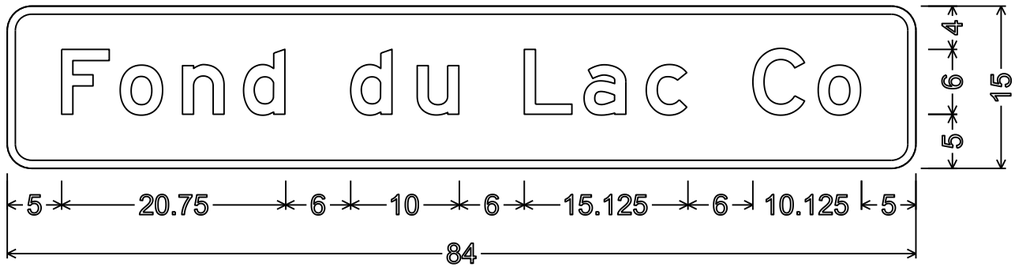
1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E except as noted



I2-2;
2.250" Radius, 0.750" Border



I2-3;
3.000" Radius, 1.000" Border,
"Ashford" D; "UNINCORPORATED" C



I2-2; 2.250" Radius, 0.750" Border

7

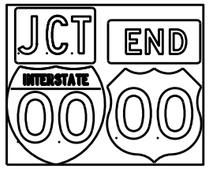
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PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	PERMANENT SIGNING	SHEET NO: 133	E

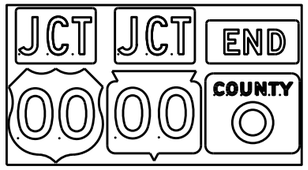
TYPICAL ASSEMBLIES



J1-1



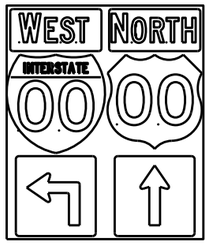
J1-2



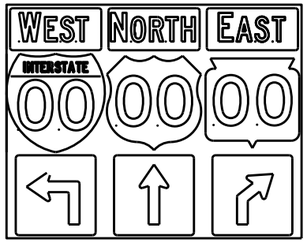
J1-3



J2-1



J2-2

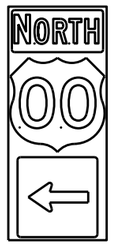


J2-3

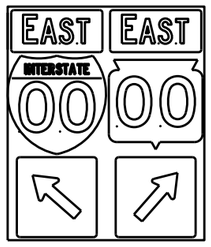


JV

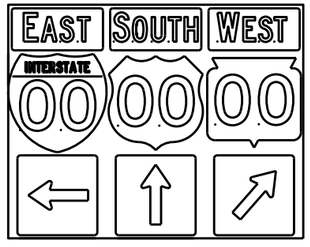
(Typical Vertical J-Assembly
See Note 10 and 11)



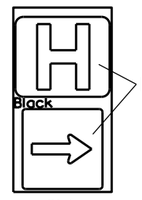
J3-1



J3-2



J3-3

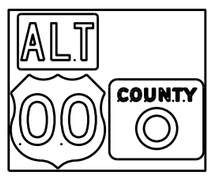


Blue Background

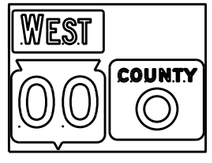
JH-1



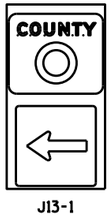
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1

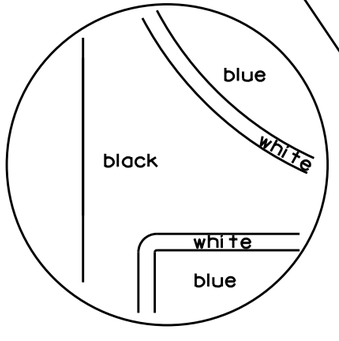


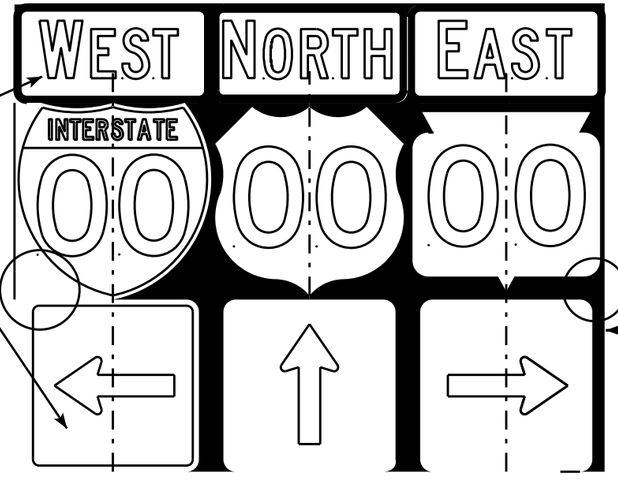
J23-1

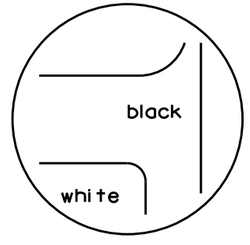


J22-1

blue background
with interstate







black background

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

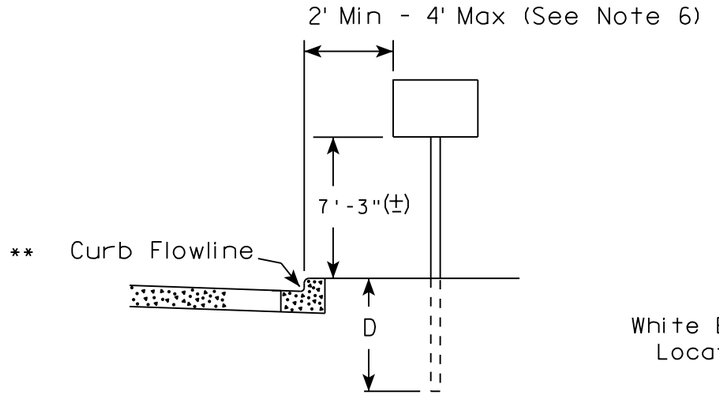
DATE 2/06/14 PL... A2-1S.8

PROJECT NO: | SHEET NO: E

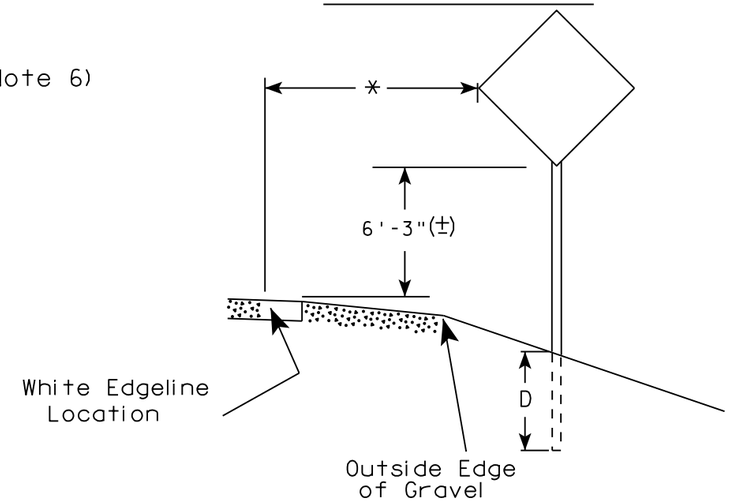
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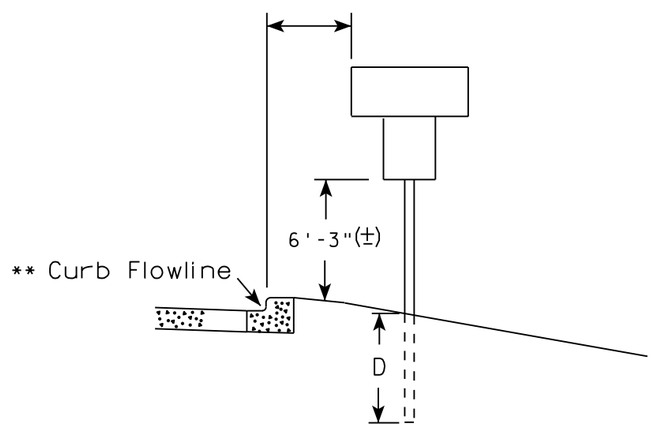
WISDOT/CADDS SHEET 42

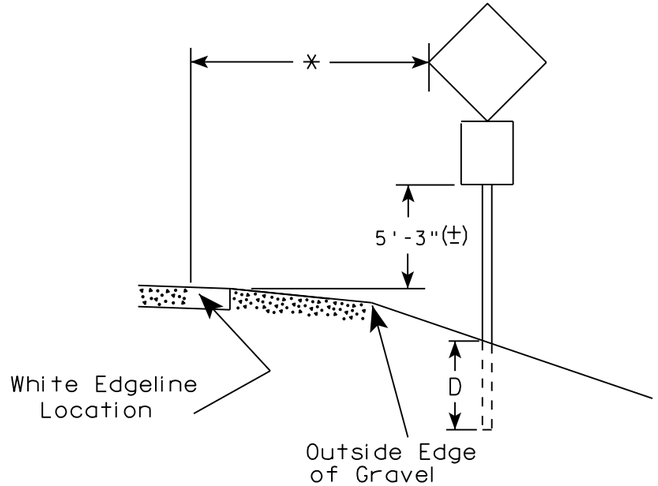
URBAN AREA



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.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq.Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. J-Assemblies are considered to be one sign for mounting height.
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 signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

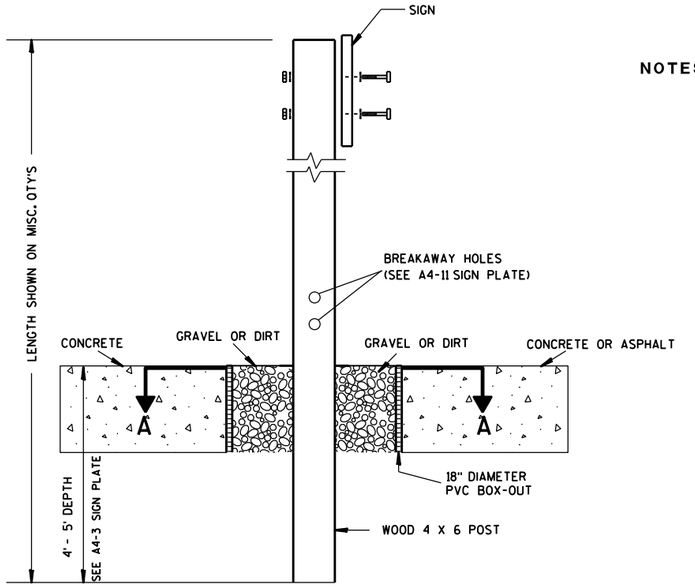
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-3.21

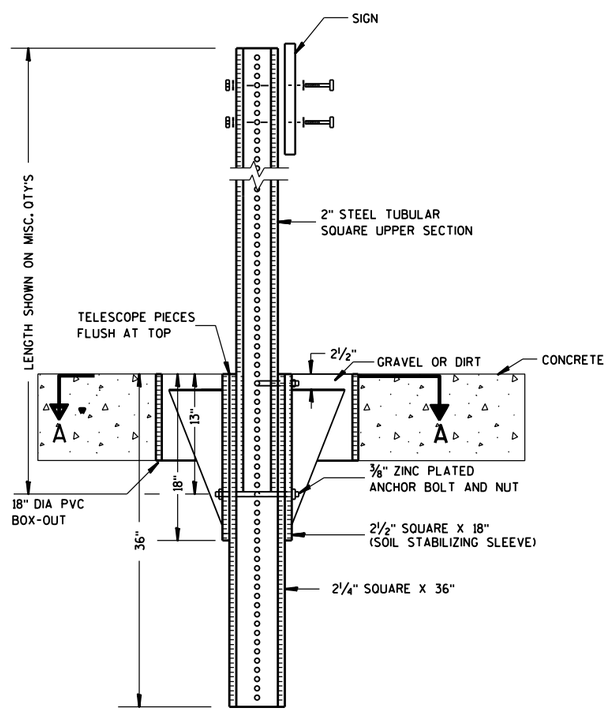
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 135	E



ELEVATION VIEW

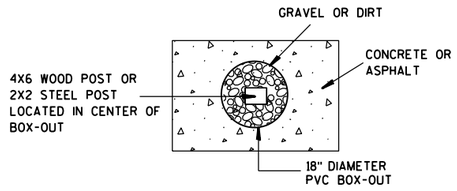
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

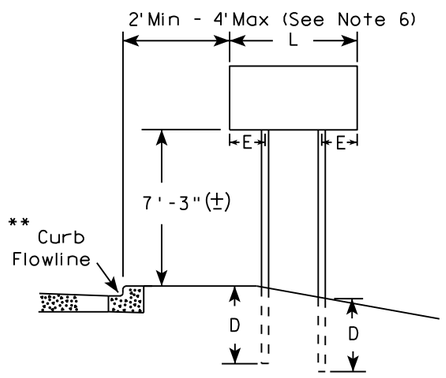
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

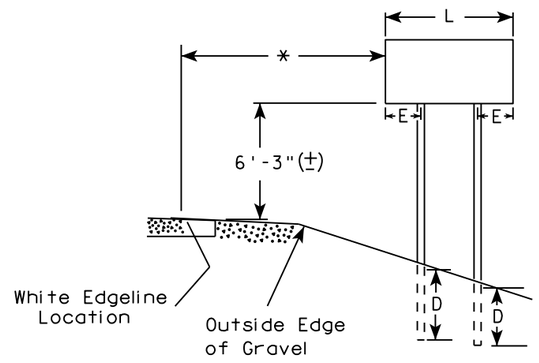
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

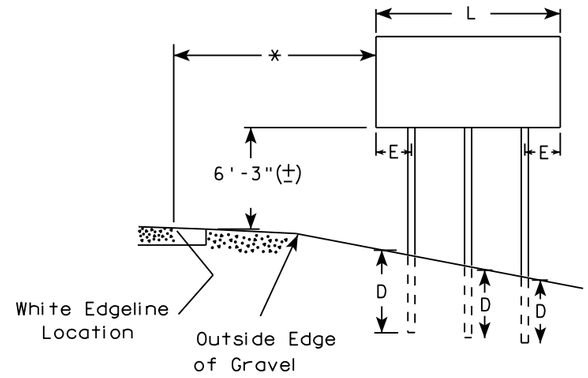
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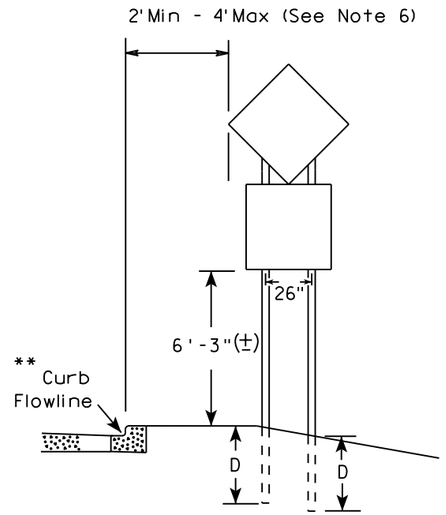
URBAN AREA



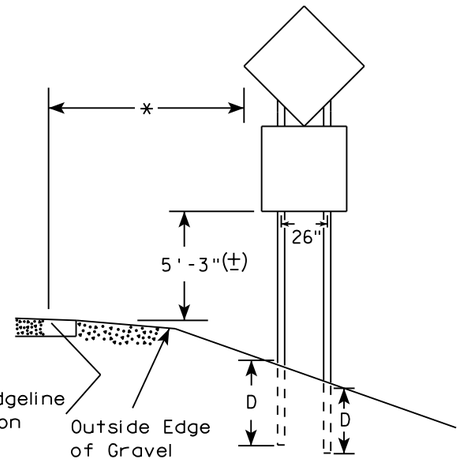
RURAL AREA (See Note 3)







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 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs 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), In Road Object Markers (W5-54) & End of Road Markers (W5-56) 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 and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

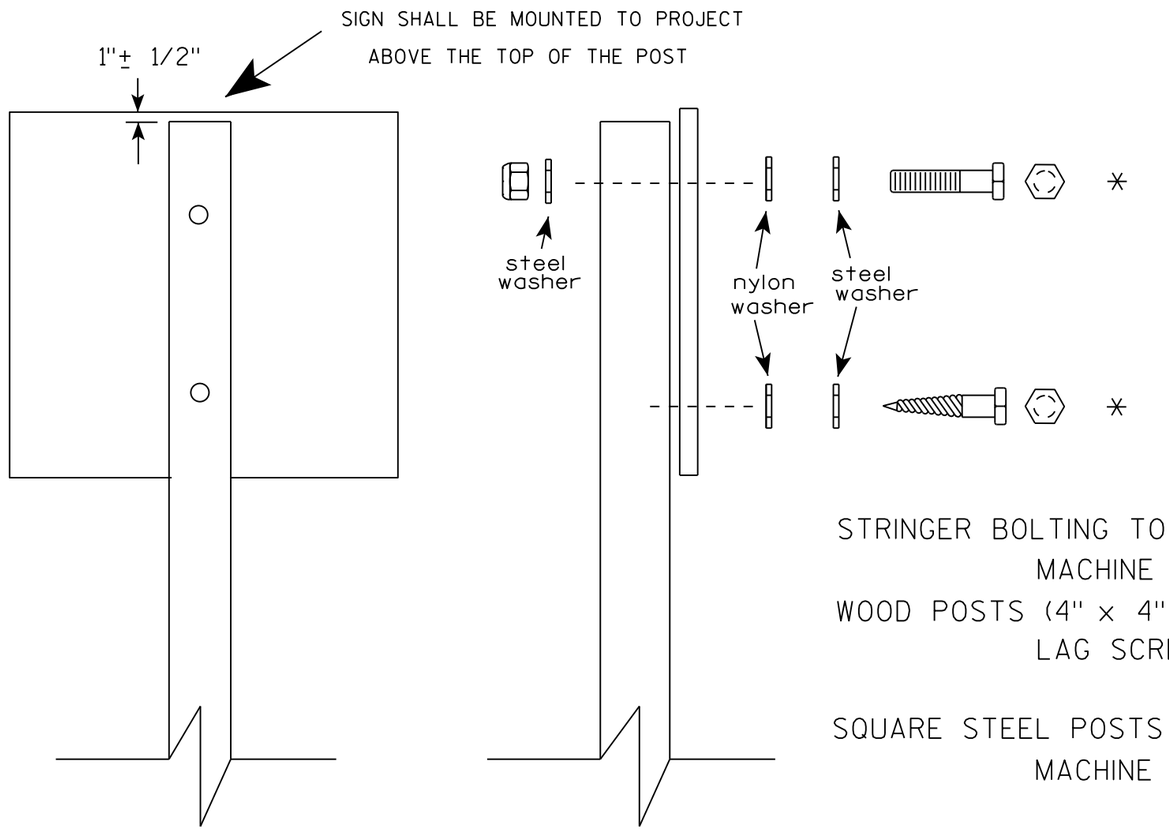
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 137	E



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)

3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)

3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

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

* 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

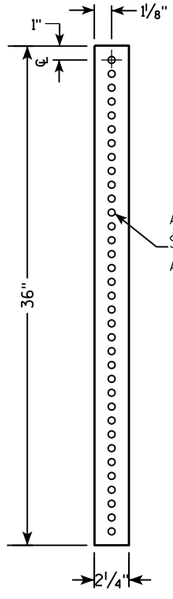
DATE 8/11/16 PLATE NO. A4-8.8

PROJECT NO: SHEET NO: E

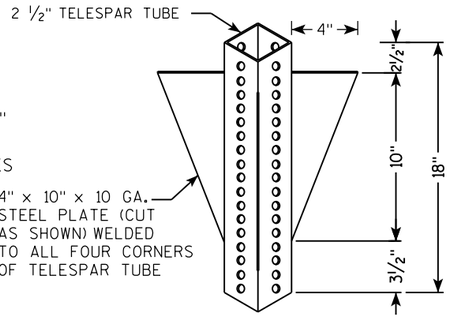
FILE NAME : C:\CADfiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 11-AUG-2016 11:35 PLOT BY : $$ plotuser $$

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

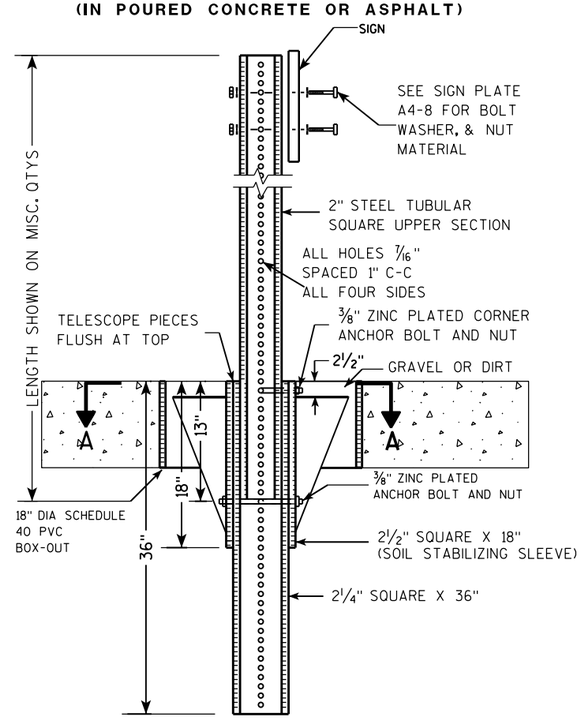
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



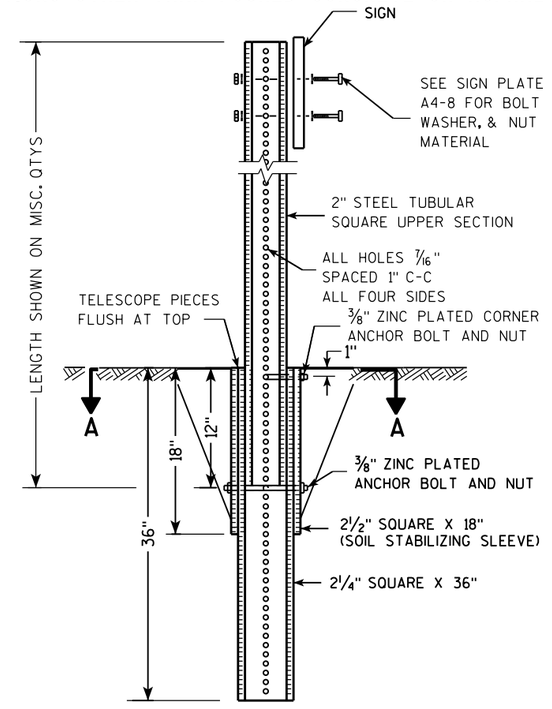
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

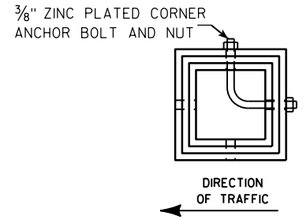


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

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

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

TUBULAR STEEL
SIGN POST
A4-9

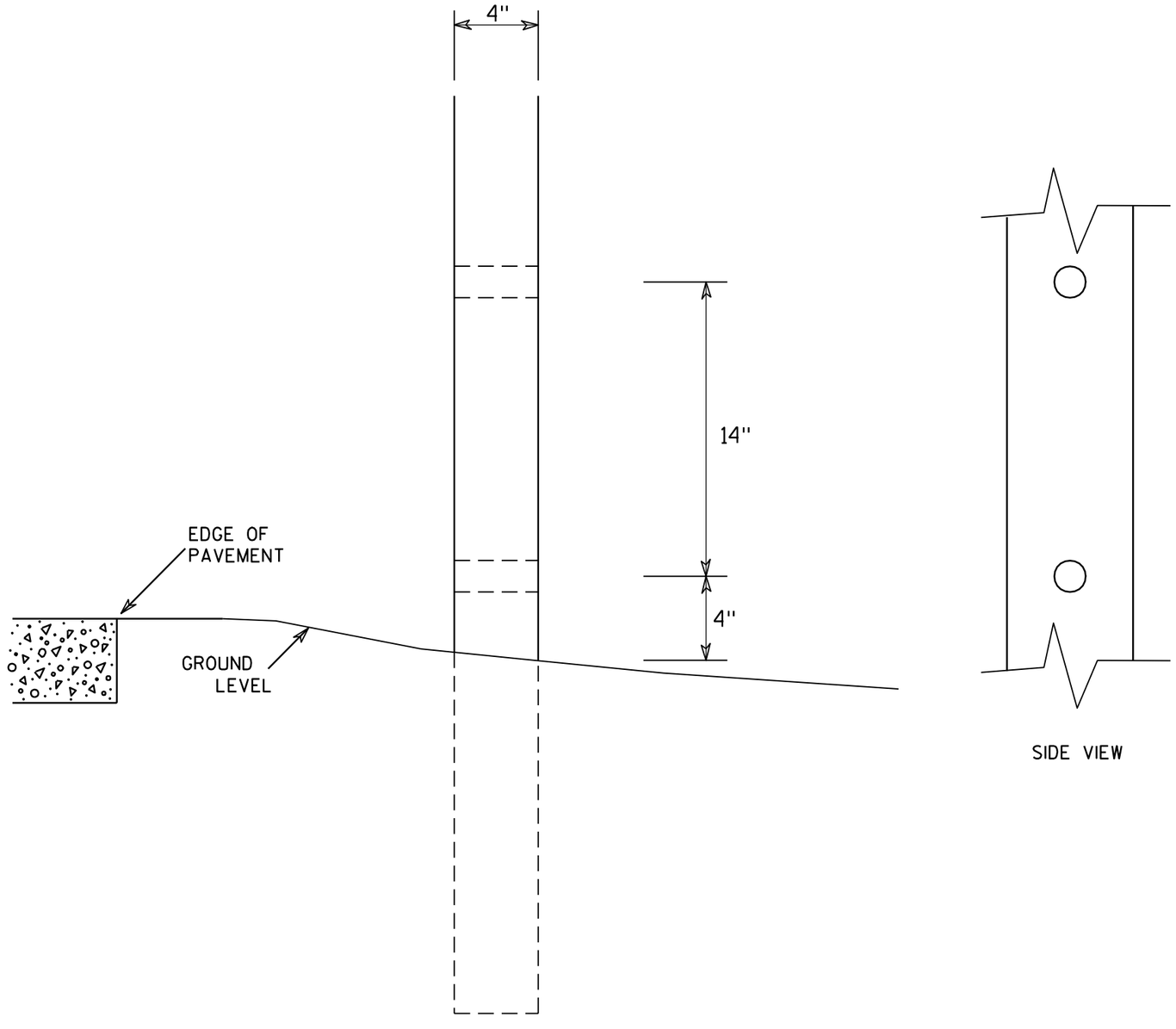
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE : 05-FEB-2015 17:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

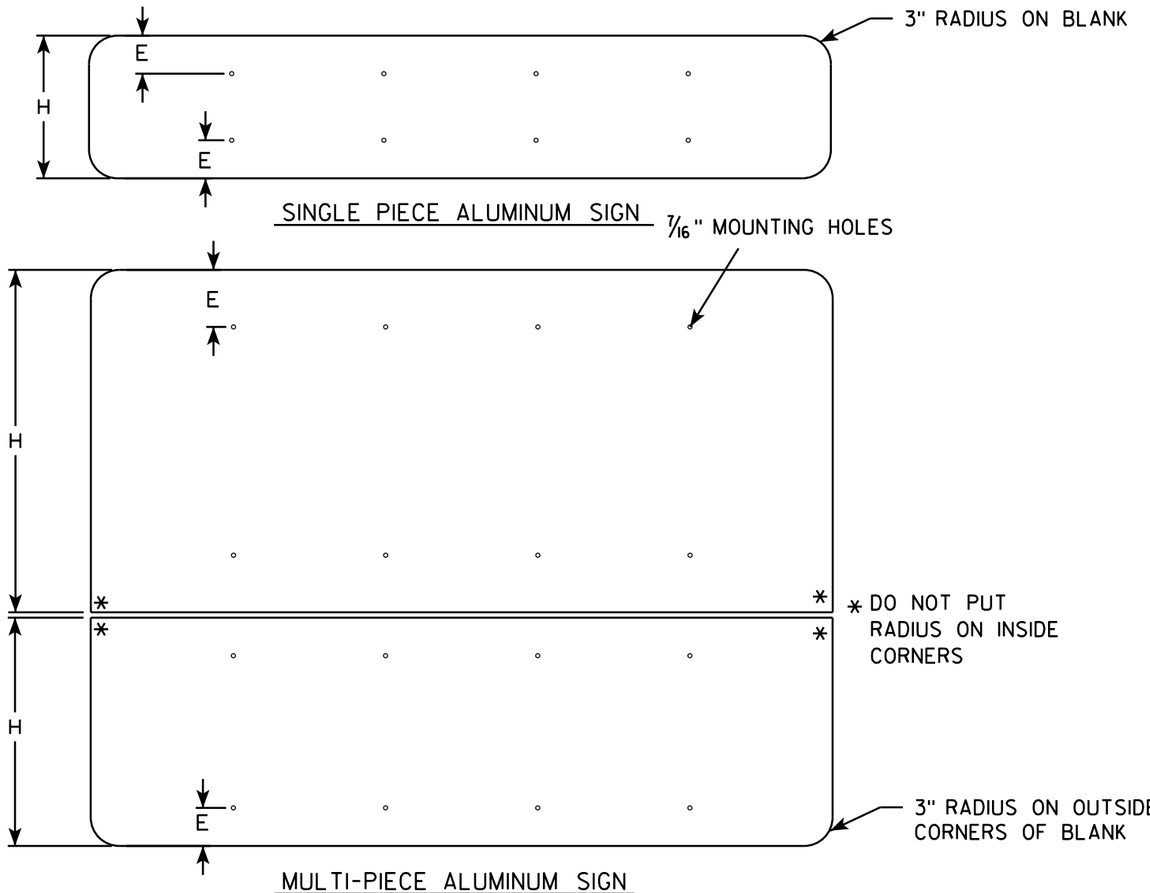
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

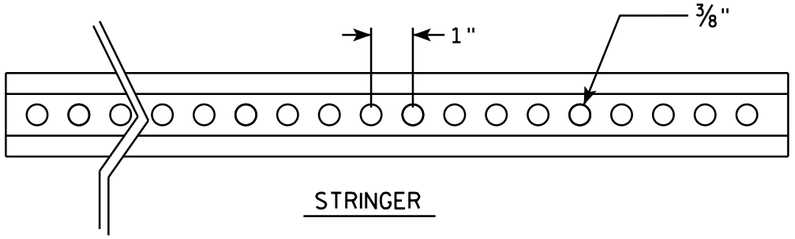
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 140	E



GENERAL NOTES

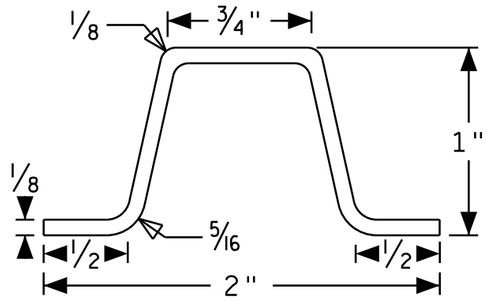
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING	MOUNTING HOLES
78"	72"	2	16"	15" 31" 47" 63"
84"	72"	2	17"	16½" 33½" 50½" 67½"
90"	72"	2	18"	18" 36" 54" 72"
96"	90"	2	19"	19½" 38½" 57½" 76½"
102"	90"	2	20"	21" 41" 61" 81"
108"	90"	2	21"	22½" 43½" 64½" 85½"
114"	108"	3	15"	12" 27" 42" 57" 72" 87" 102"
120"	108"	3	16"	12" 28" 44" 60" 76" 92" 108"
126"	108"	3	17"	12" 29" 46" 63" 80" 97" 114"
132"	126"	3	18"	12" 30" 48" 66" 84" 102" 120"
138"	126"	3	19"	12" 31" 50" 69" 88" 107" 126"
144"	126"	3	20"	12" 32" 52" 72" 92" 112" 132"

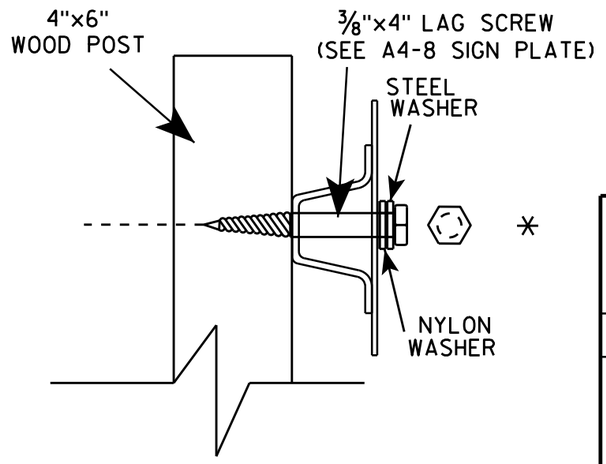


STRINGER

CROSS SECTION VIEW OF CHANNEL



POST MOUNTING



SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

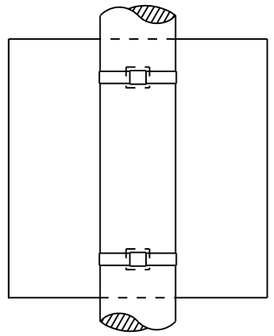
DATE 4/26/16 PLATE NO A4-18.1

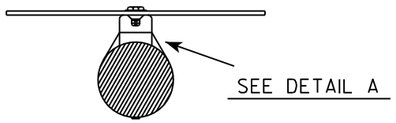
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A418.dgn PLOT DATE : 27-APR-2016 13:56 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 41.805205:1.000000 WISDOT/CADDS SHEET 42

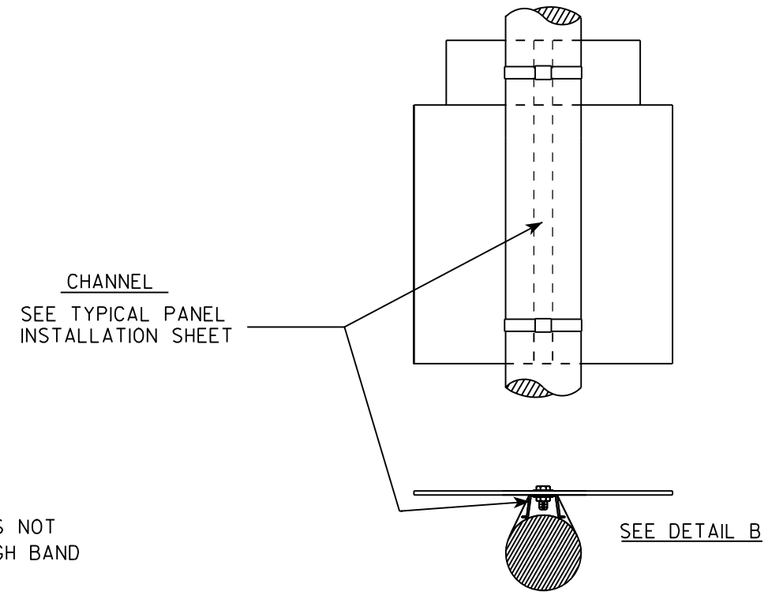
BANDING

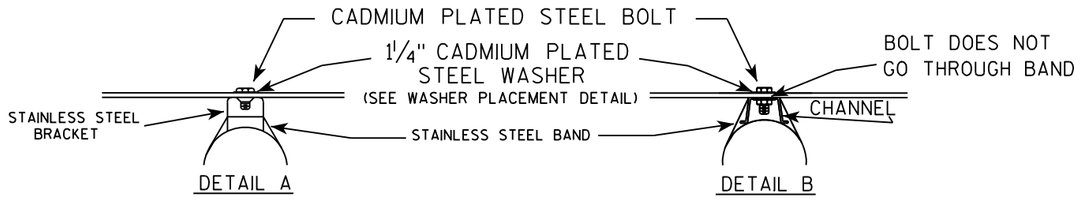
SINGLE SIGN



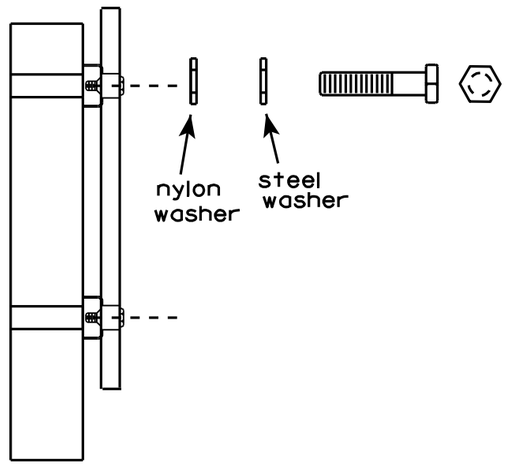


"J" ASSEMBLY





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

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be 3/4" in width and 0.025" thickness.

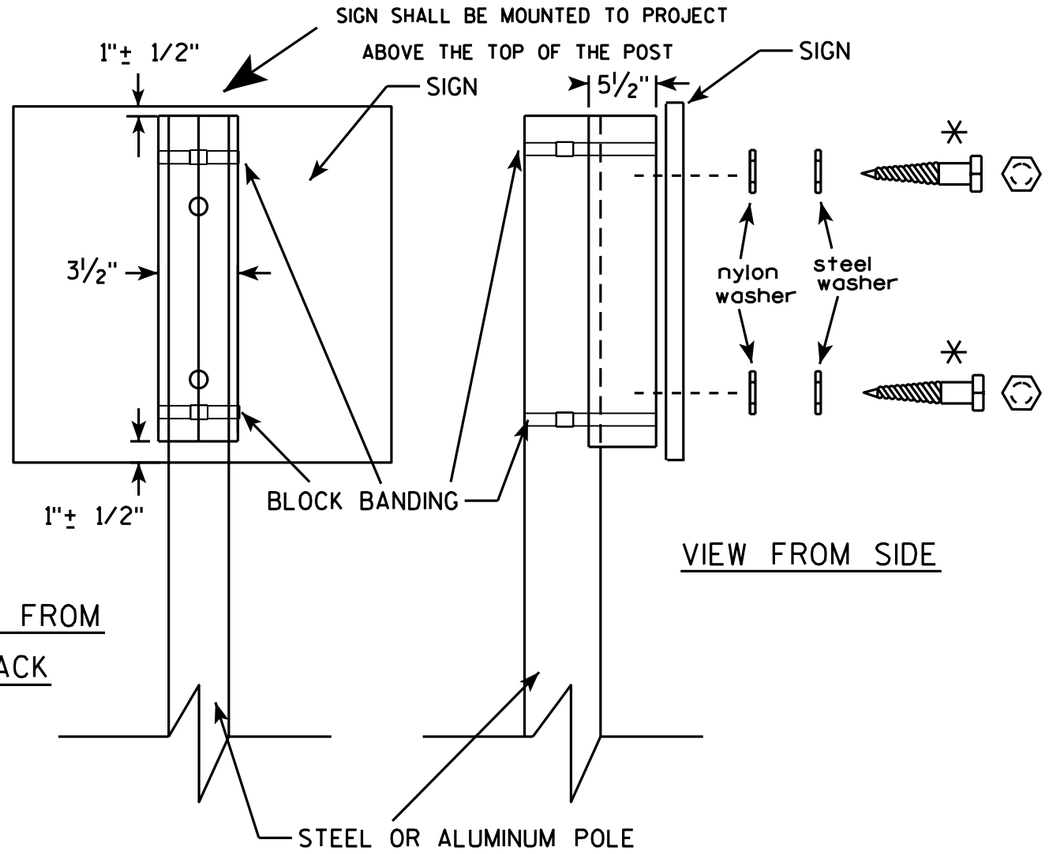
STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

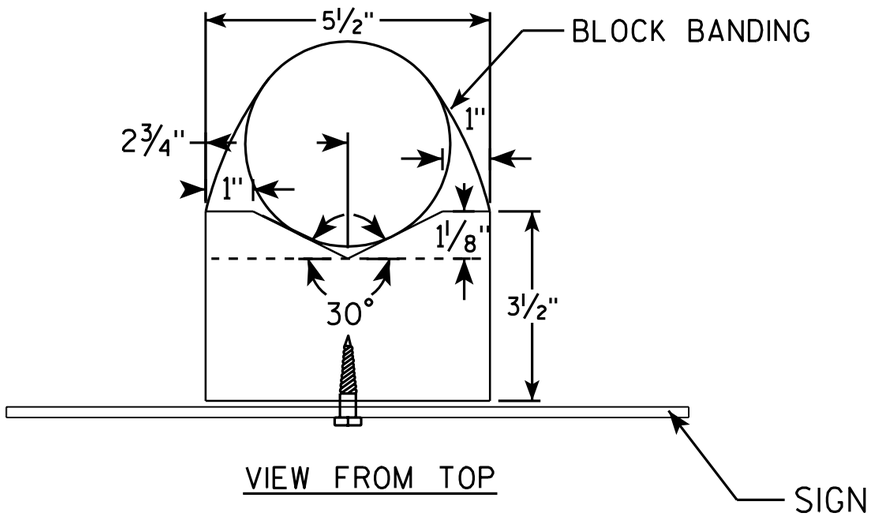
DATE 8/16/13 PLATE NO. A5-9.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 142	E



VIEW FROM SIDE

VIEW FROM BACK



VIEW FROM TOP

GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D, or
   b. Cadmium plated in accordance with ASTM Designation : B 766 TYPE 3, Class 12, or
   c. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

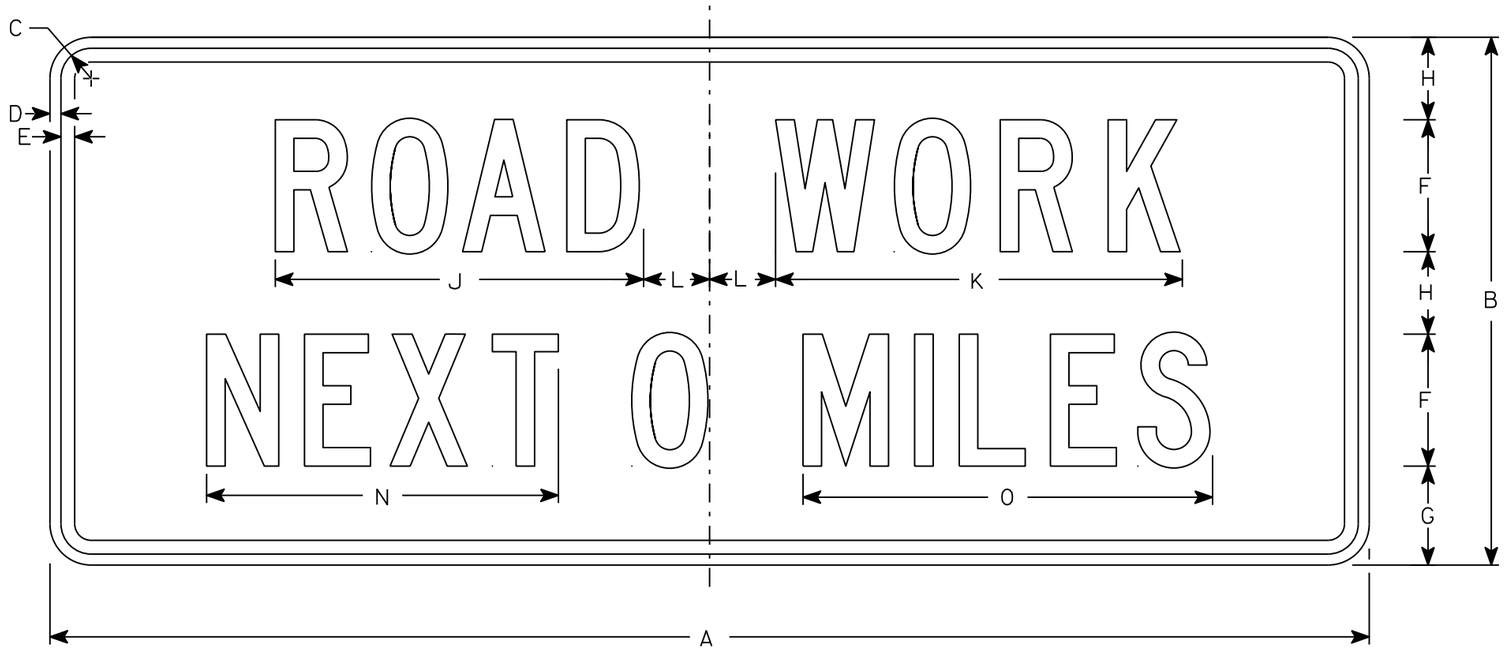
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/12/07 PLATE NO. A5-10.1

PROJECT NO:

SHEET NO: 143 E



G20-1

NOTES

1. Sign is Type II - Type F Reflective
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.
5. Round distance to nearest whole Mile and substitute appropriate numerals and optically adjust spacing to achieve proper balance

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 5/8												10
3																											
4	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 5/8												10
5																											

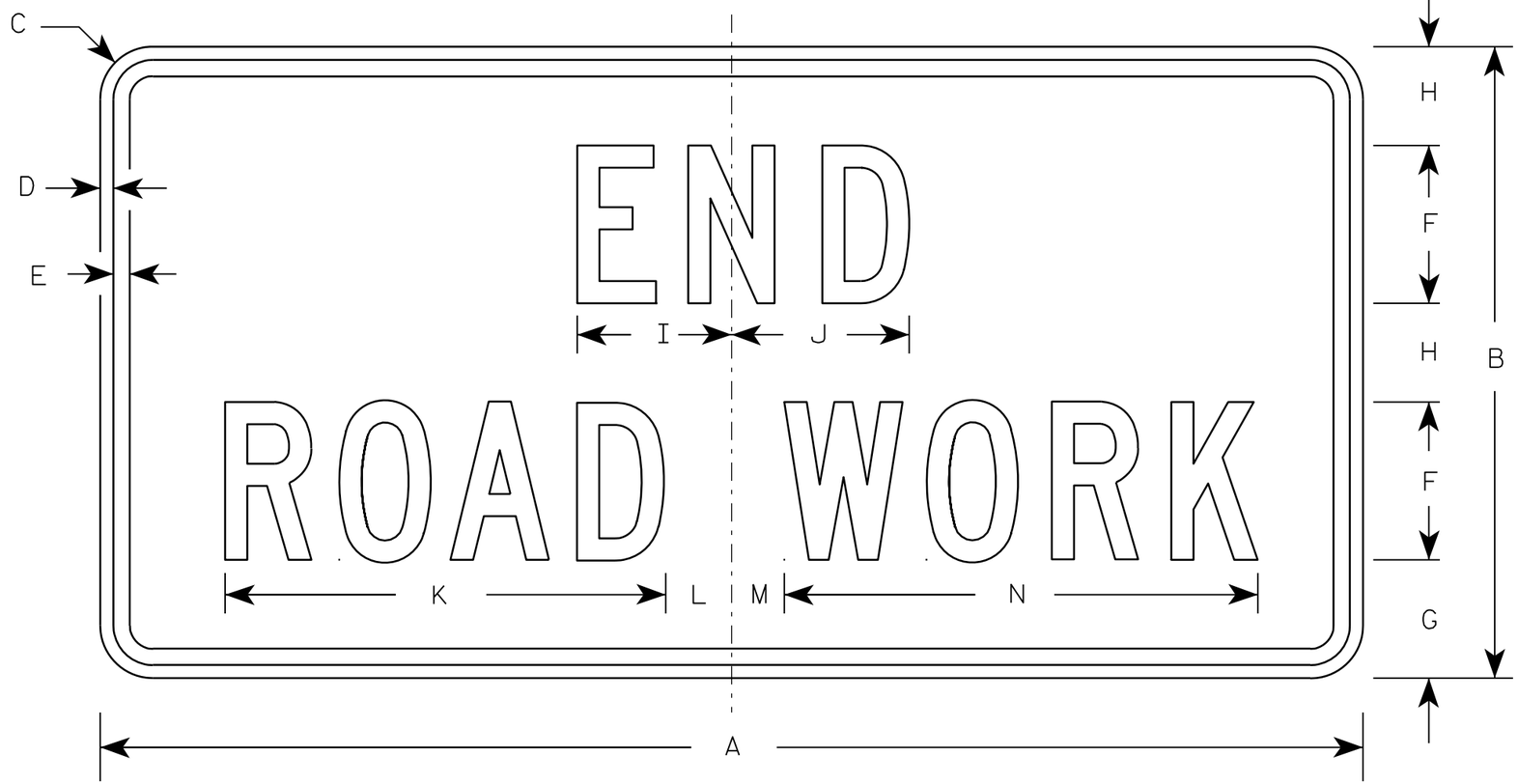
STANDARD SIGN
G20-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/14/17 PLATE NO. G20-1.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 144 | 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

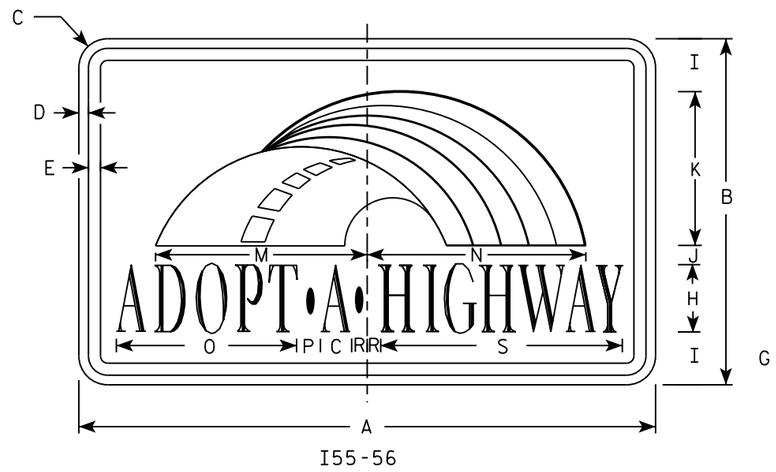
STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

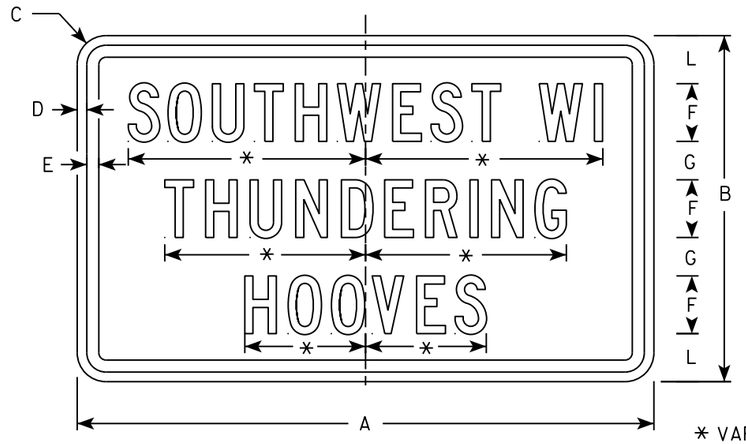
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 145	E



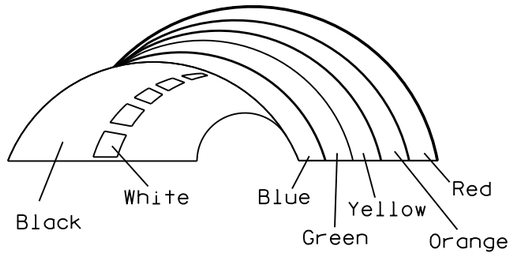
I55-56



I55-56P

* VARIES

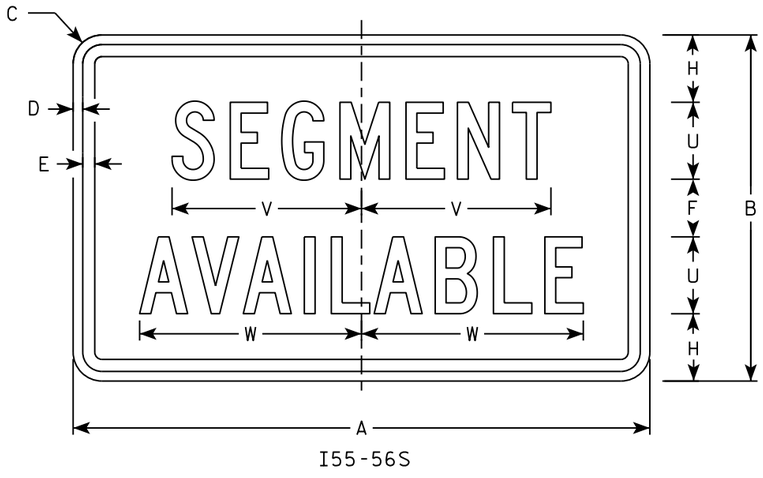
Background Colors of Symbol*



*1/4" Black Border between each color of rainbow and border of rainbow

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - (See Note 4)
3. Message Series - (See Note 5)
4. Border - Blue
   Adopt a Highway - Red
   All other Text - Blue
5. Adopt a Highway - Dutch 8011L
   All other Text - Series C
6. Contractor shall provide and install a new post bracket in accordance with the I55-56B sign detail.



I55-56S

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	18	1 1/2	1/2	5/8	3	2	3 1/2	2 3/4	1	8	2 1/2	11 1/4	11 1/8	9 3/8	1 1/4		3/4	12 5/8	7 1/2	4	9 7/8	11 1/2				3.75
3																											
4																											
5																											

STANDARD SIGN
I55-56

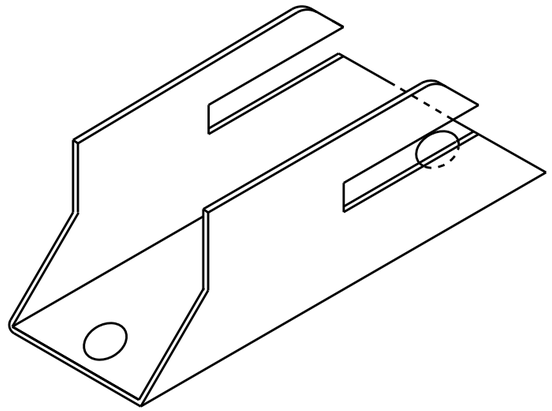
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

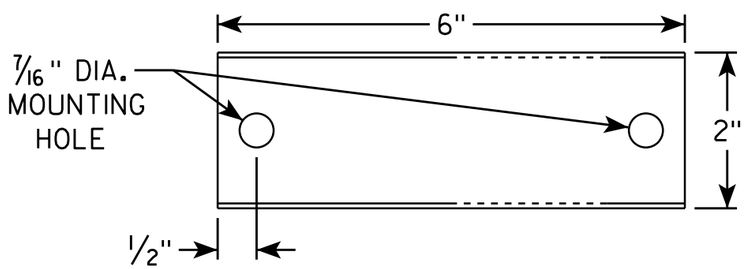
DATE 2/20/18 PLATE NO. I55-56.4

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 146 | E

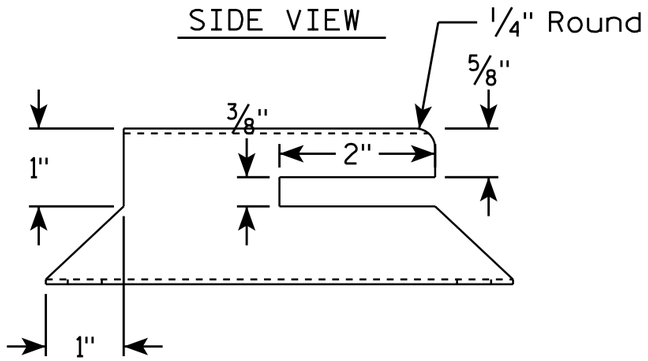
ISOMETRIC VIEW



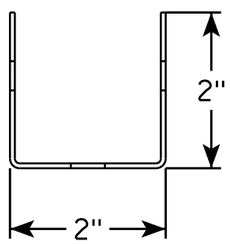
TOP VIEW



SIDE VIEW



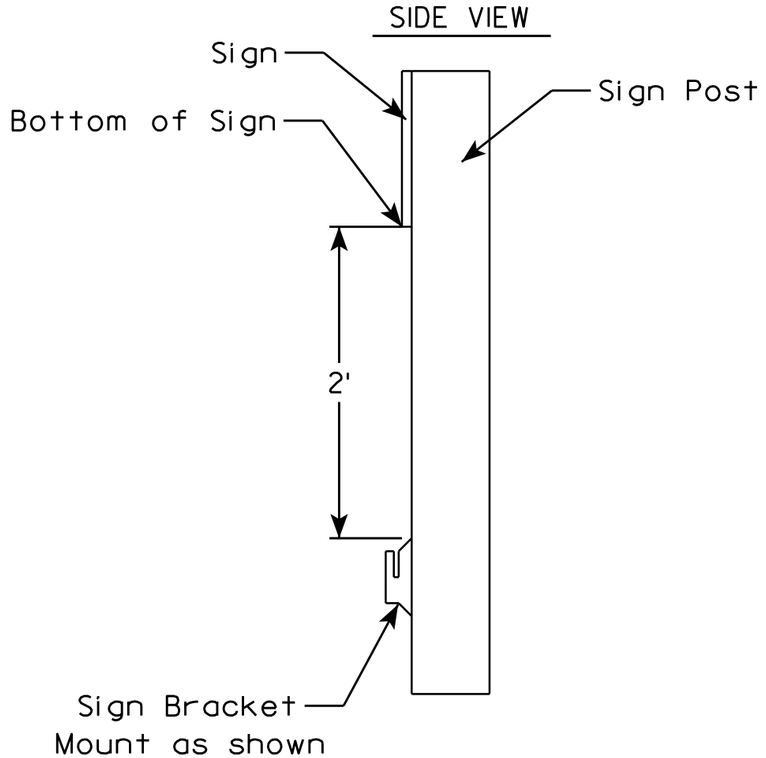
END VIEW



NOTES

1. Must be capable of permanent attachment to a wood or steel channel sign post utilizing the fastening hardware specified on the A4-8 sign plate.
2. Shall be entirely primed and painted with two coats of a black powder coated enamel paint.
3. Shall be made with 12 gauge steel, and incorporate no welds, no hinged components, no threaded lock-type components, and no parts which are loose or can be separated from the main body.
4. Shall have rounded edges with at least 1/8" radii.
5. Shall not have unrounded and uncoated metal edges which can contact the back surface of the roll-up sign.
6. Top of bracket shall be mounted 2' below the bottom of the I55-56 sign.
7. Cost of bracket and fastening hardware shall be incidental to the I55-56 sign.

SIDE VIEW



ROLLUP SIGN BRACKET
I55-56B

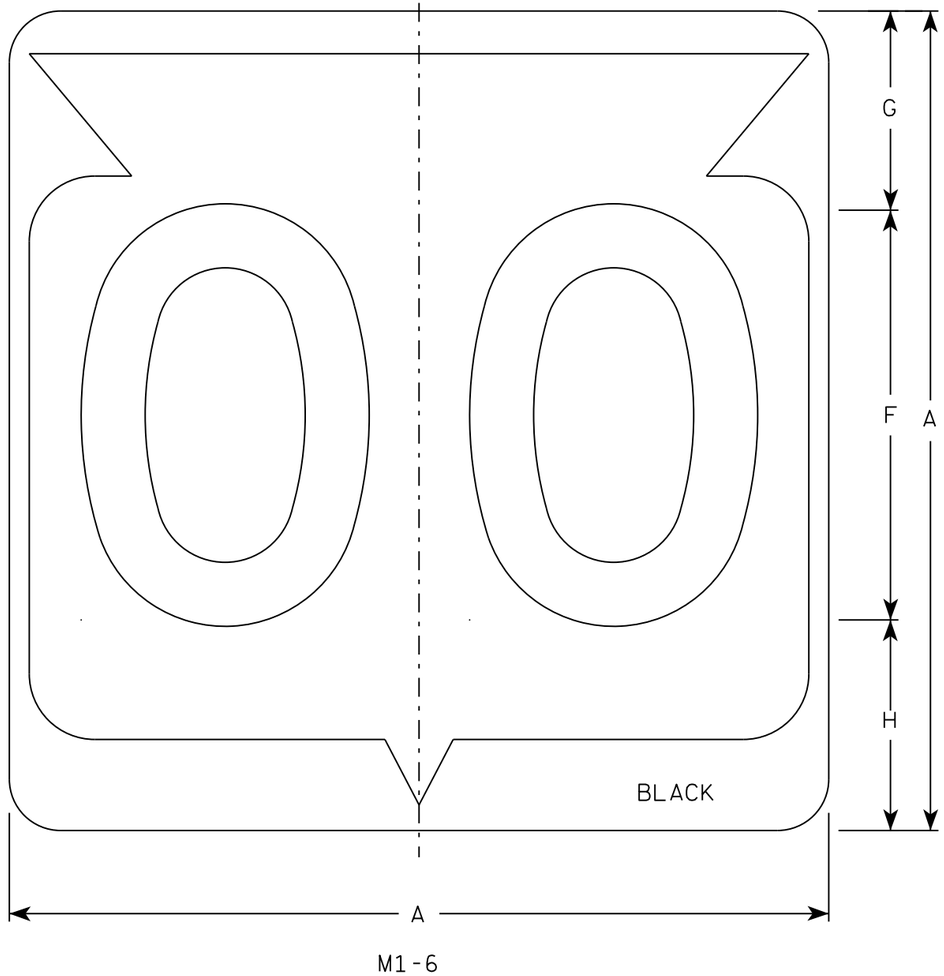
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/26/16 PLATE I55-56B.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

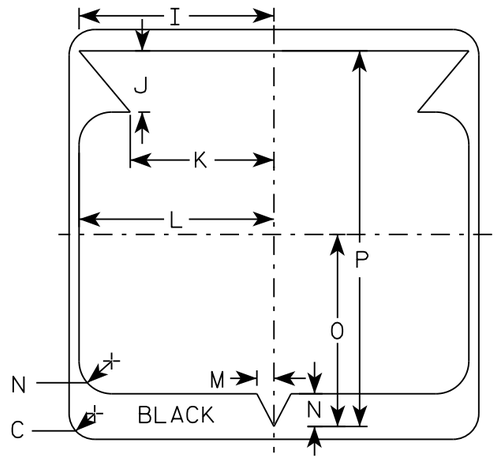
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\I5556B.DGN PLOT DATE : 26-APR-2016 17:29 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 1.945842:1.000000
WISDOT/CADDS SHEET 42



M1-6

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D except 3 number signs 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																											
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0

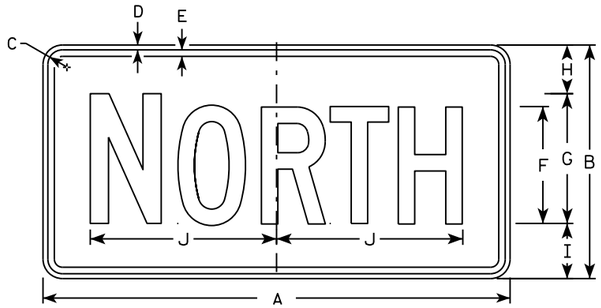
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

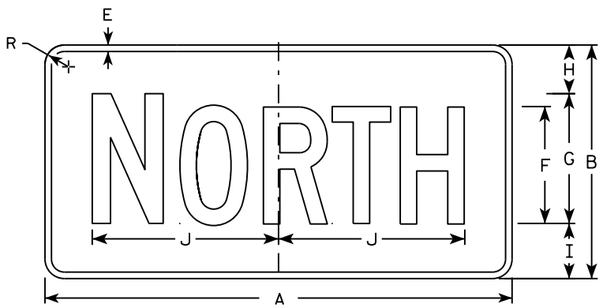
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/16/18 PLATE NO. M1-6.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 148 E



M3-1
MM3-1
MP3-1



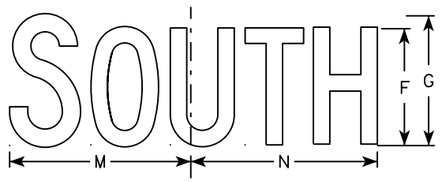
MB3-1
MK3-1
MN3-1



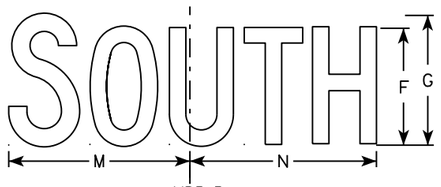
M3-2
MM3-2
MP3-2



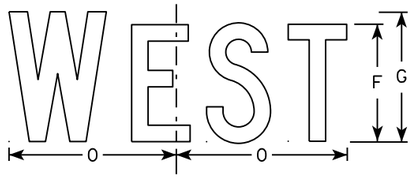
MB3-2
MK3-2
MN3-2



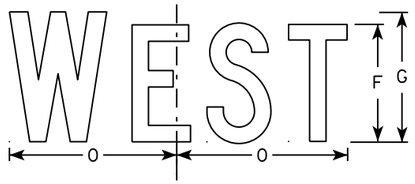
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
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
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
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

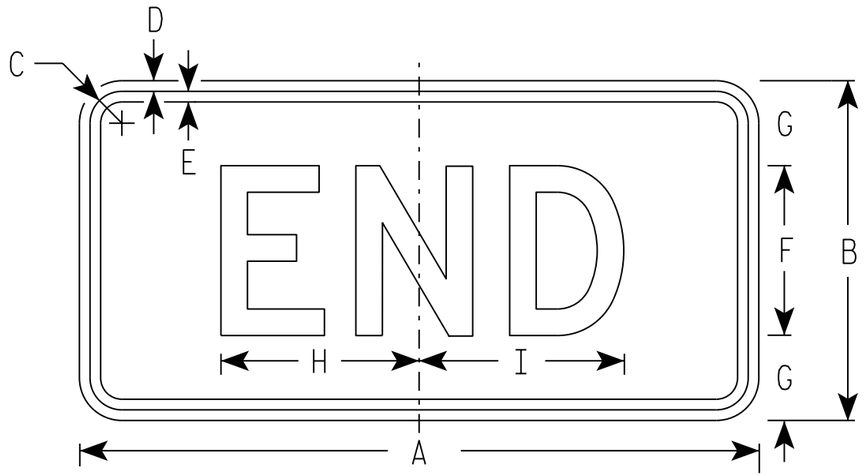
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

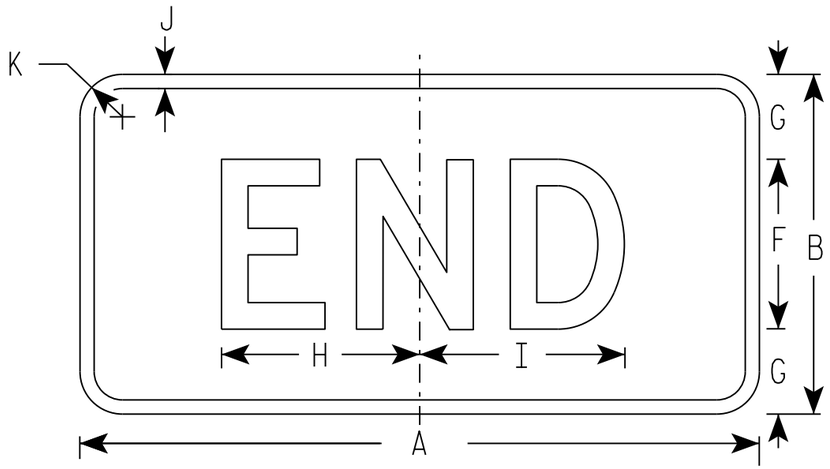
DATE 10/15/15 PLATE NO M3-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



M4-6
MM4-6
MP4-6



MB4-6
MK4-6
MN4-6
MR4-6

NOTES

1. Sign is Type II - Type H
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
   Message - Black

   MB4-6 Background - Blue
   Message - White

   MK4-6 Background - Green
   Message - White

   MM4-6 Background - White
   Message - Green

   MN4-6 Background - Brown
   Message - White

   MP4-6 Background - White
   Message - Blue

   MR4-6 Background - Brown
   Message - Yellow

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

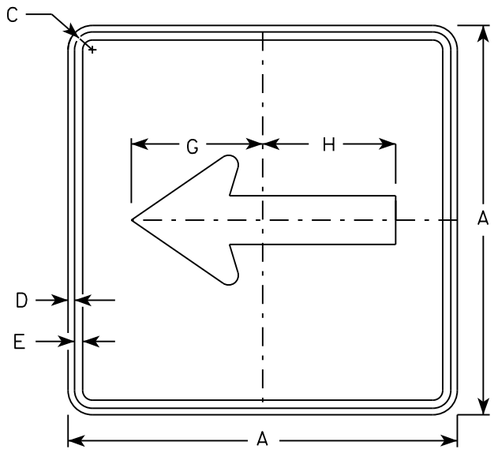
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

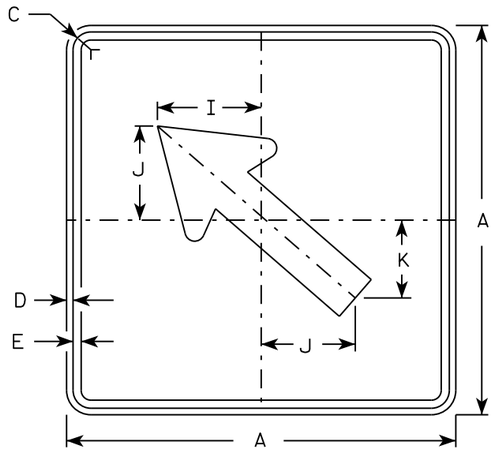
DATE 10/15/15 PLATE 150 '14-7.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M46.DGN PLOT DATE : 01-DEC-2015 17:55 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 5.351066:1.000000



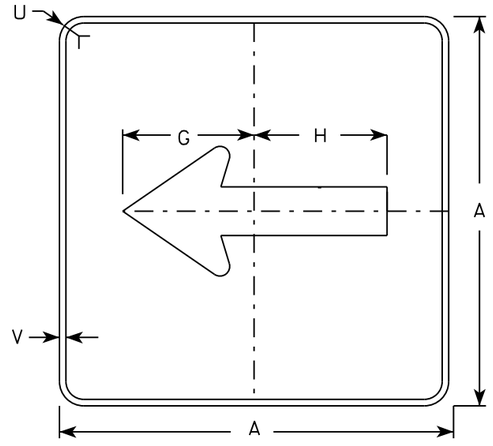
M6-1
MM6-1
MO6-1
MP6-1



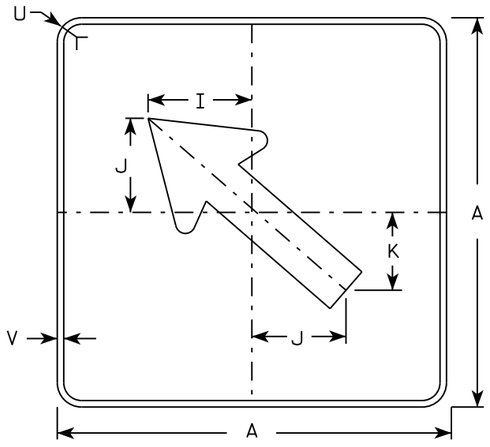
M6-2
MM6-2
MO6-2
MP6-2

NOTES

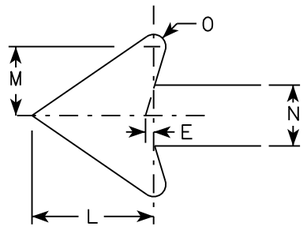
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



MB6-1
MK6-1
MN6-1
MR6-1



MB6-2
MK6-2
MN6-2
MR6-2



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2						3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25

STANDARD SIGN
M6-1 & M6-2
SERIES

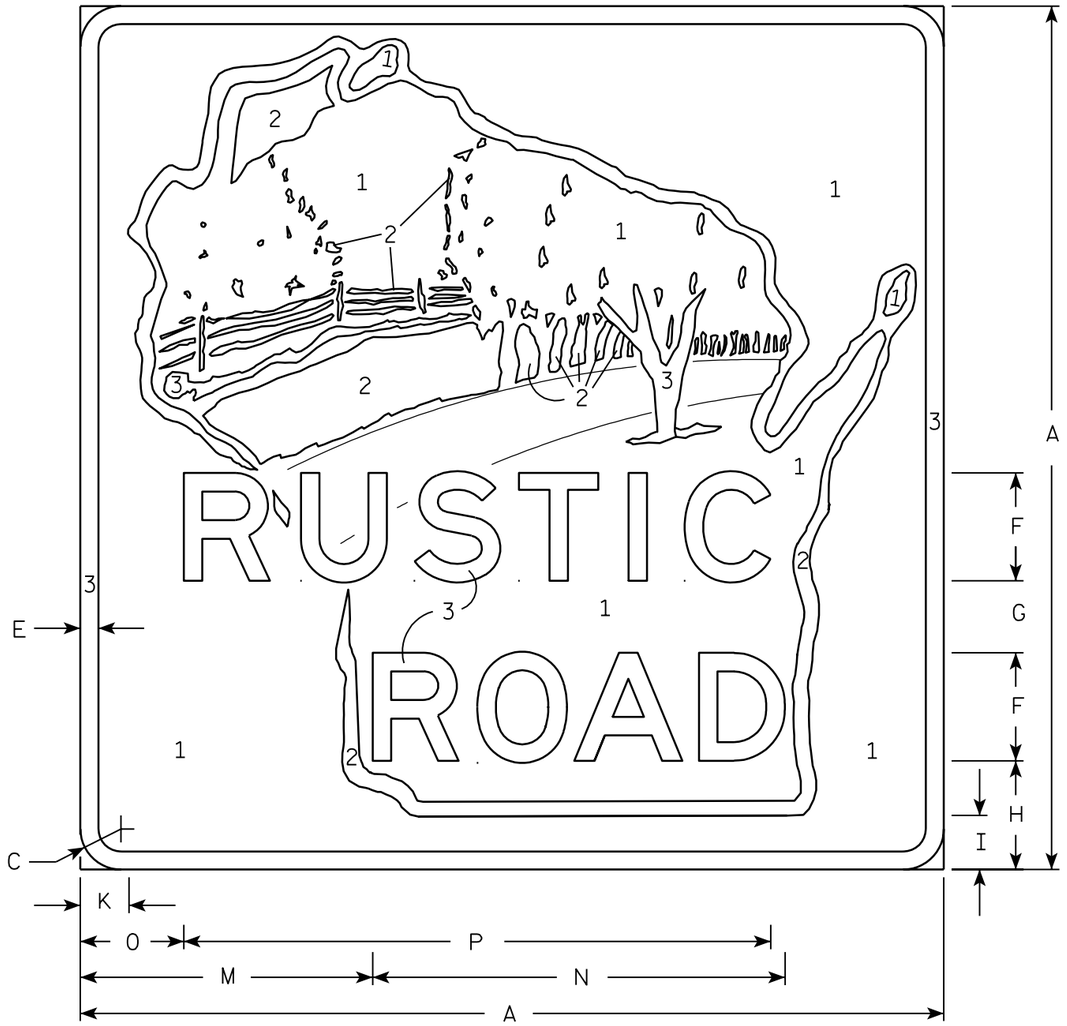
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 151 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 01-DEC-2015 17:57 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



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 note 5
   Message - See note 5.
3. Message Series - Modified 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. The sign will be color coded by numerical designation Numeral *1 Brown
   2 Type H Reflective White
   3 Reflective Yellow

   Exact color descriptions will be furnished upon request.

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	
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		1 1/8		1/2	3	2	3	1 1/2		1 3/8		8 1/8	11 1/4	2 7/8	16 1/4											4.0	0.36
3																												
4																												
5																												

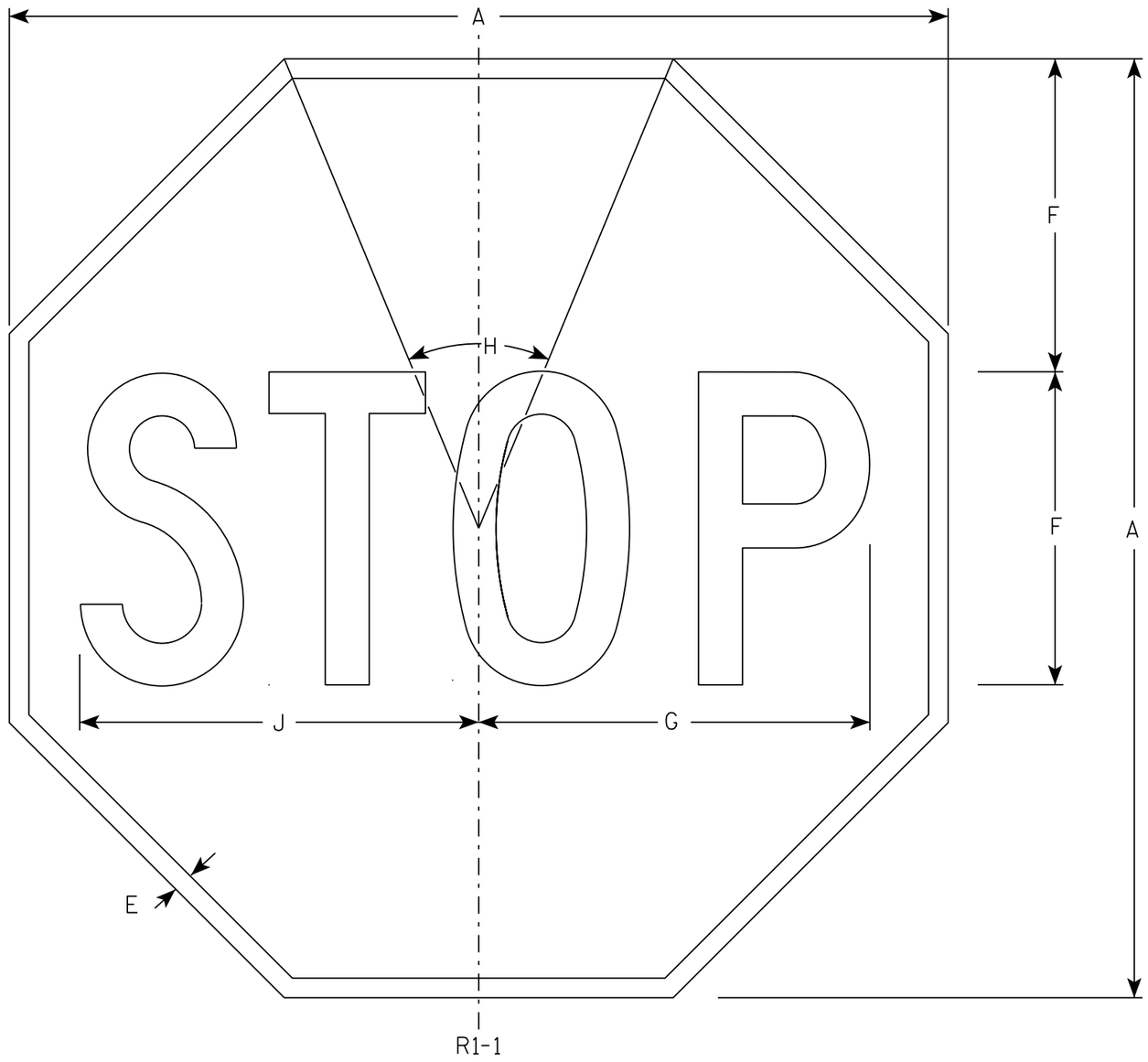
STANDARD SIGN
MR1-99

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/05 PLATE NO. MR1-99.5

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 152	E



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

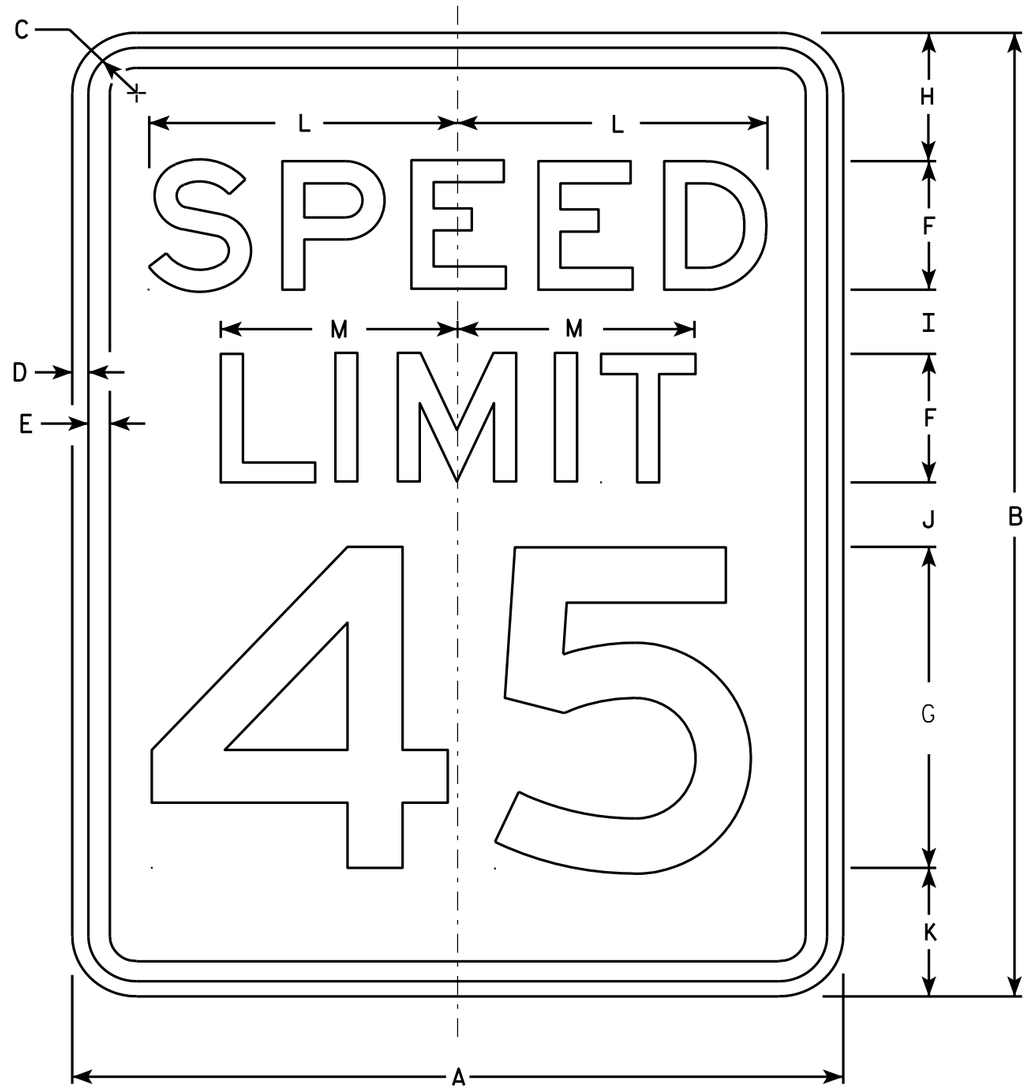
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 153	E



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

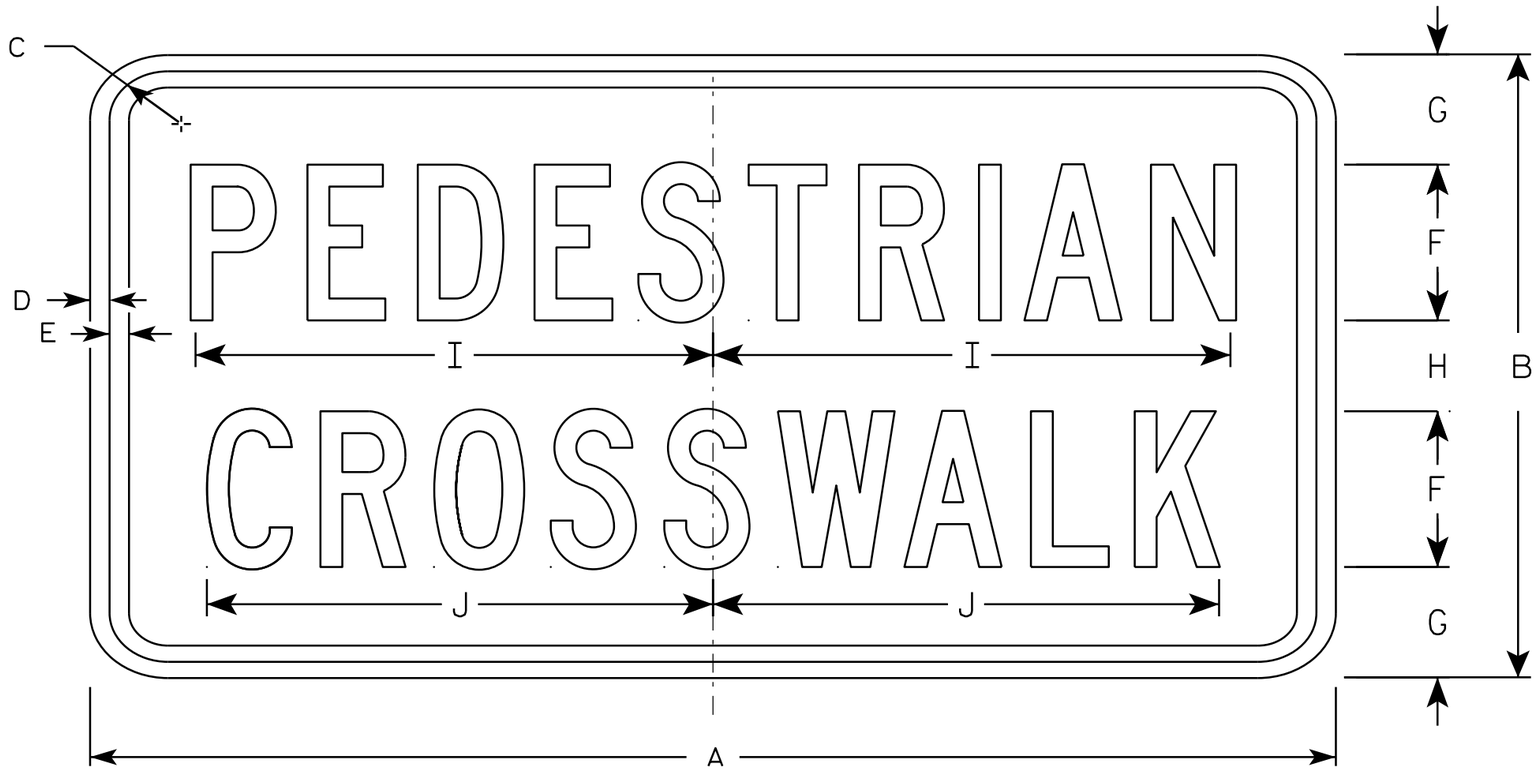
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 154	E



R9-8

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.

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	12	1 3/4	1/2	1/2	3	2 1/8	1 3/4	10	9 3/4																	2.0
2M	24	12	1 3/4	1/2	1/2	3	2 1/8	1 3/4	10	9 3/4																	2.0
3	30	18	1 3/4	1/2	1/2	4	3 1/2	3	13	13																	3.75
4																											
5																											

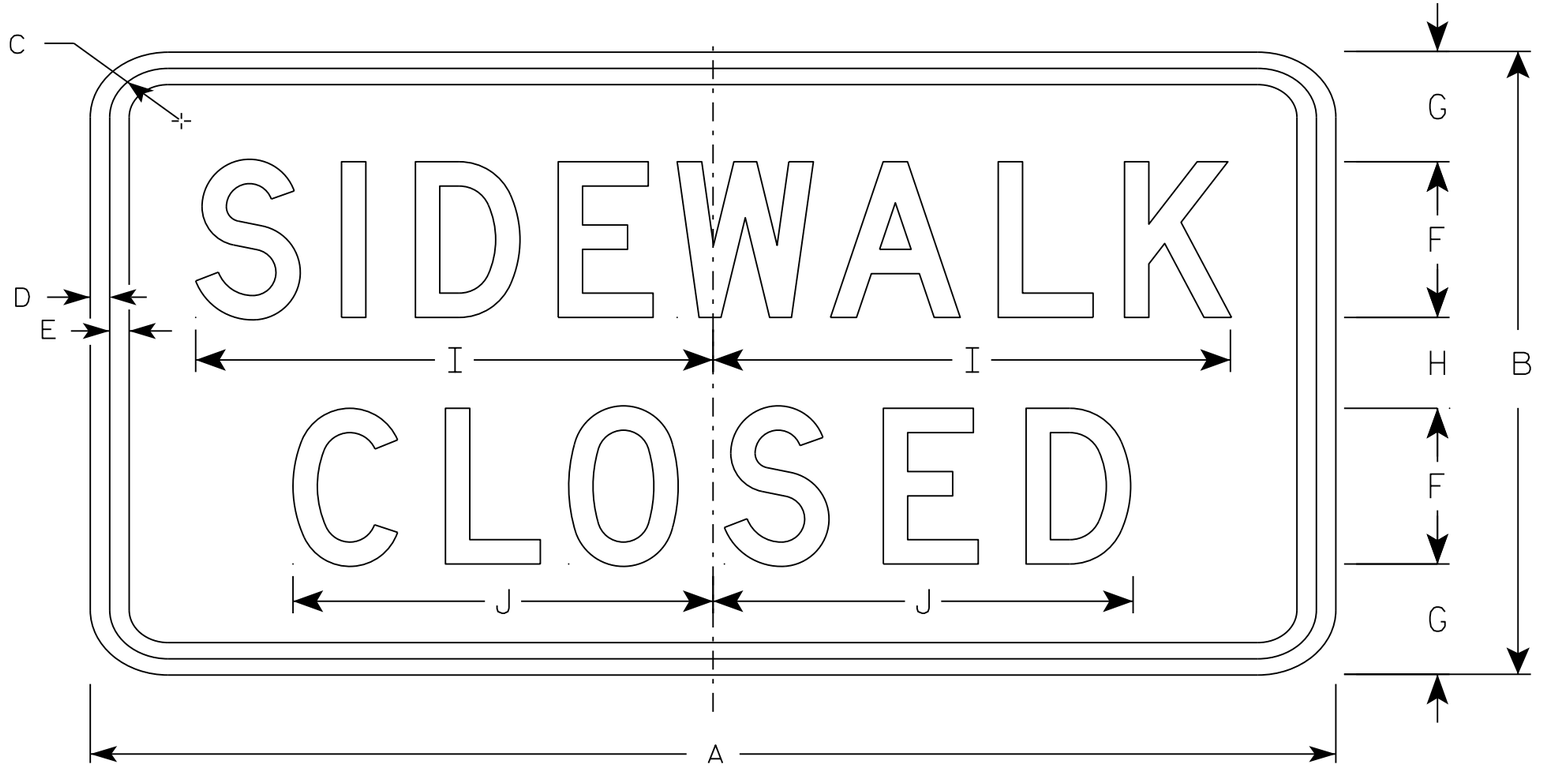
STANDARD SIGN
R9-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/17/16 PLATE 155 R9-8.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



R9-9

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. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.

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	12	1 3/4	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8																	2.0
2M	24	12	1 3/4	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8																	2.0
3	30	18	1 3/4	1/2	1/2	4	3 1/2	3	12 1/2	10 1/4																	3.75
4																											
5																											

STANDARD SIGN
R9-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

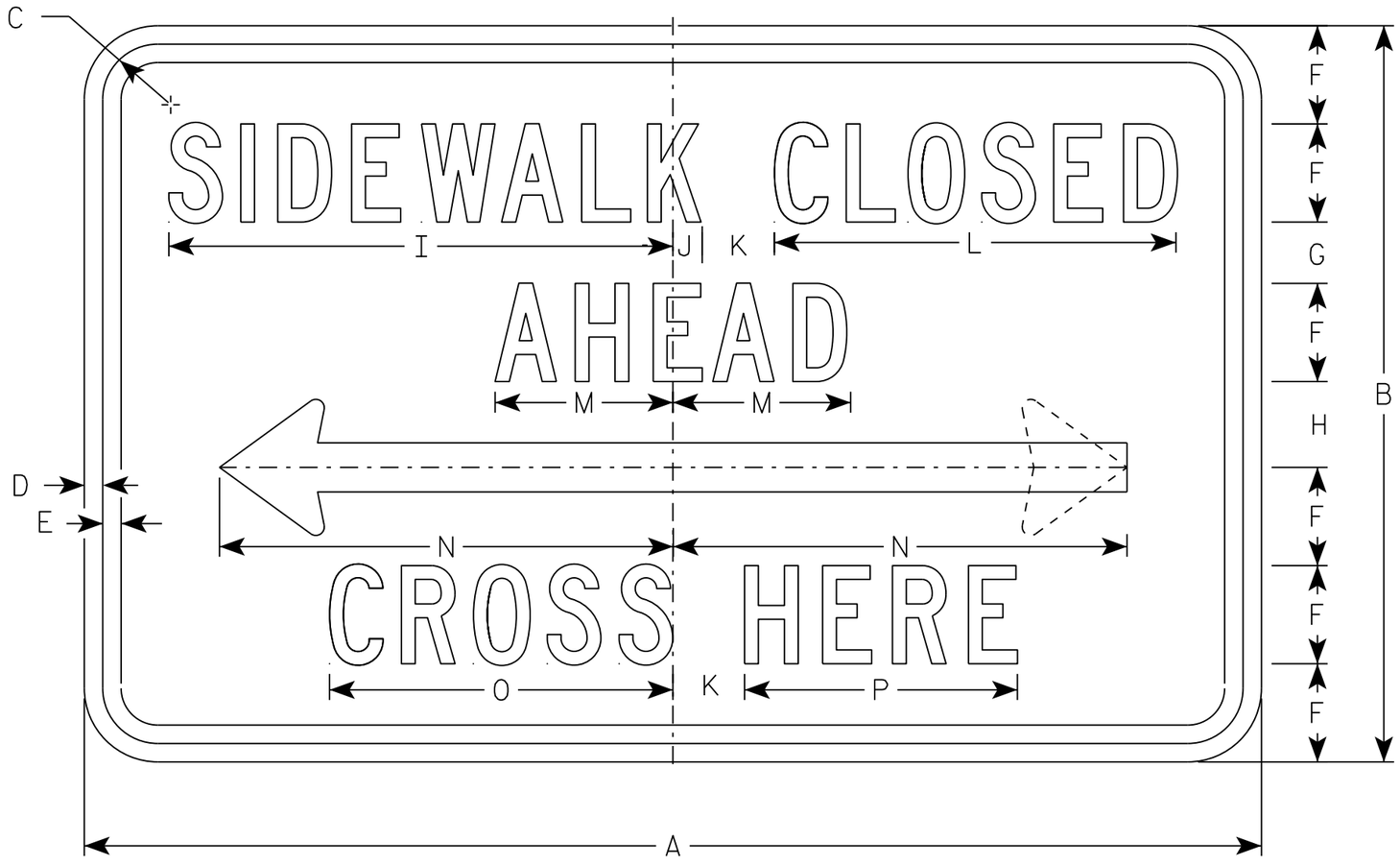
DATE 8/11/16 PLATE 156 R9-9.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

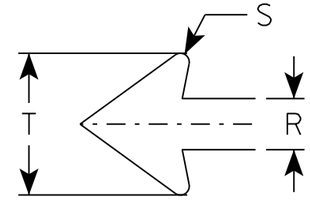
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R99.DGN PLOT DATE : 11-AUG-2016 11:33 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 2.918761:1.000000

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C except Size 1 is 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. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.



R9-11



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	12	1 1/8	3/8	3/8	1 1/2	1 1/2	1 1/2	9 3/4	5/8	1 1/2	7 5/8	3 1/2	9 1/4	6 5/8	5 1/8		1	1/8	2 3/4							2.0
2M	24	12	1 1/8	3/8	3/8	1 1/2	1 1/2	1 1/2	9 3/4	5/8	1 1/2	7 5/8	3 1/2	9 1/4	6 5/8	5 1/8		1	1/8	2 3/4							2.0
3	30	15	1 1/8	3/8	1/2	2	1 1/2	1 1/2	13	3/4	2	10 1/4	4 5/8	12 3/8	8 7/8	6 7/8		1 1/4	1/4	3 5/8							3.125
4																											
5																											

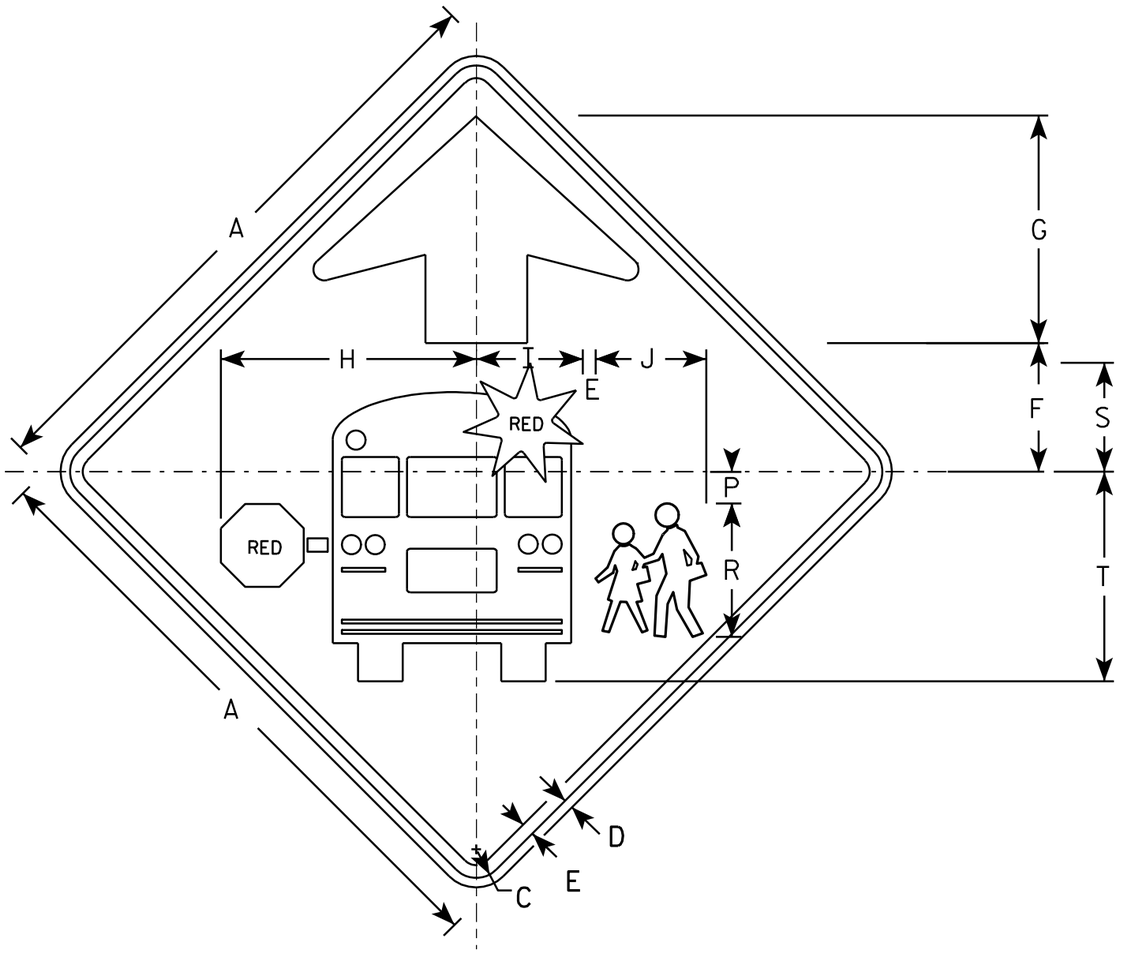
STANDARD SIGN
R9-11

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/29/16 PLATE NO. R9-11.3

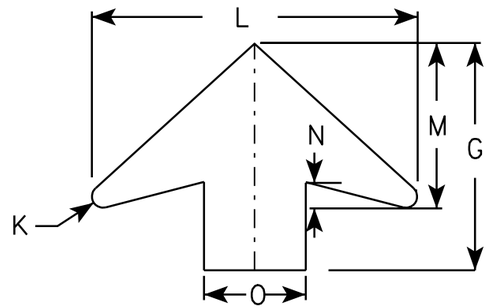
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 157	E



S3-1

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-GREEN
   Message - BLACK except as noted
   Circles except PEDS- RED BACKGROUND
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	6 1/4	11 1/4	12 1/2	5 1/4	5 1/2	1/2	16	8	1 1/4	5	1 1/2		6 5/8	5 3/8	10 3/8							6.25
2	36		1 5/8	5/8	3/4	7 1/2	13 1/2	15 1/8	6 1/4	6 1/2	5/8	19 1/4	9 3/4	1 5/8	6	1 7/8		7 7/8	6 3/8	12 3/8							9.0
3	48		2 1/4	3/4	1	10	17 7/8	20 1/8	8 3/8	8 3/4	7/8	25 5/8	13	2	8	2 1/2		10 1/2	8 1/2	16 1/2							16.0
4	48		2 1/4	3/4	1	10	17 7/8	20 1/8	8 3/8	8 3/4	7/8	25 5/8	13	2	8	2 1/2		10 1/2	8 1/2	16 1/2							16.0
5																											

STANDARD SIGN
S3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

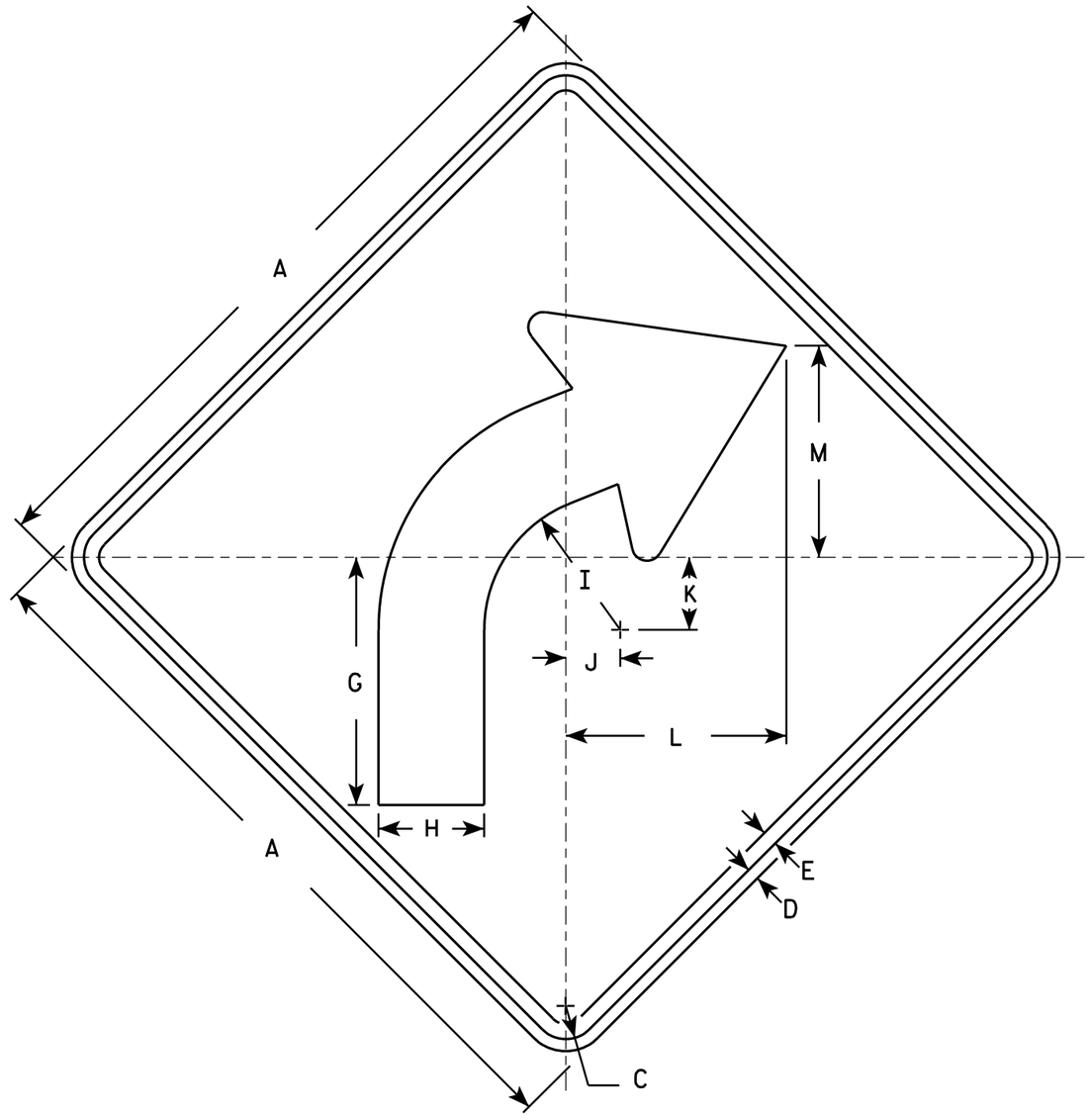
DATE 6/8/10 PLATE NO. S3-1.6

PROJECT NO:

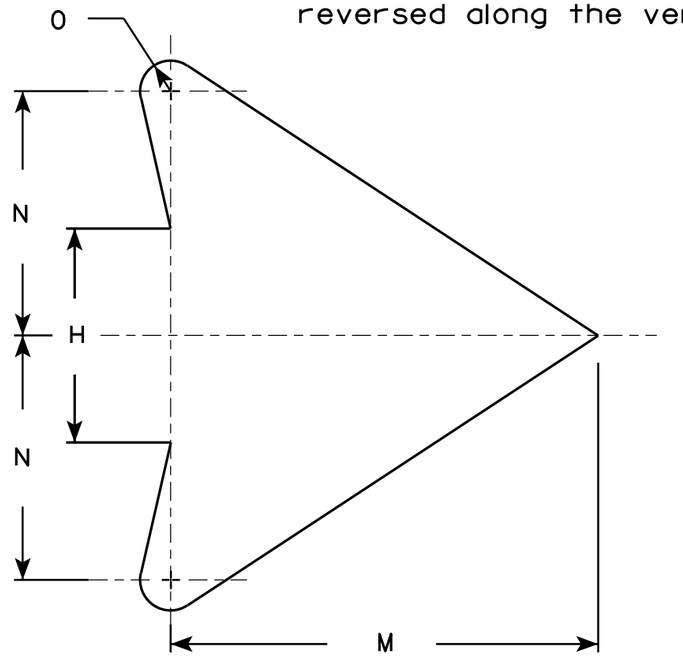
SHEET NO: 158 E

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. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



W1-2R



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		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
2S	30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 5/8	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2M	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
3	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
4	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
5	48		2 1/4	3/4	1		16 1/2	7	9	3 1/2	4 5/8	14 1/2	14	8	1												16.0

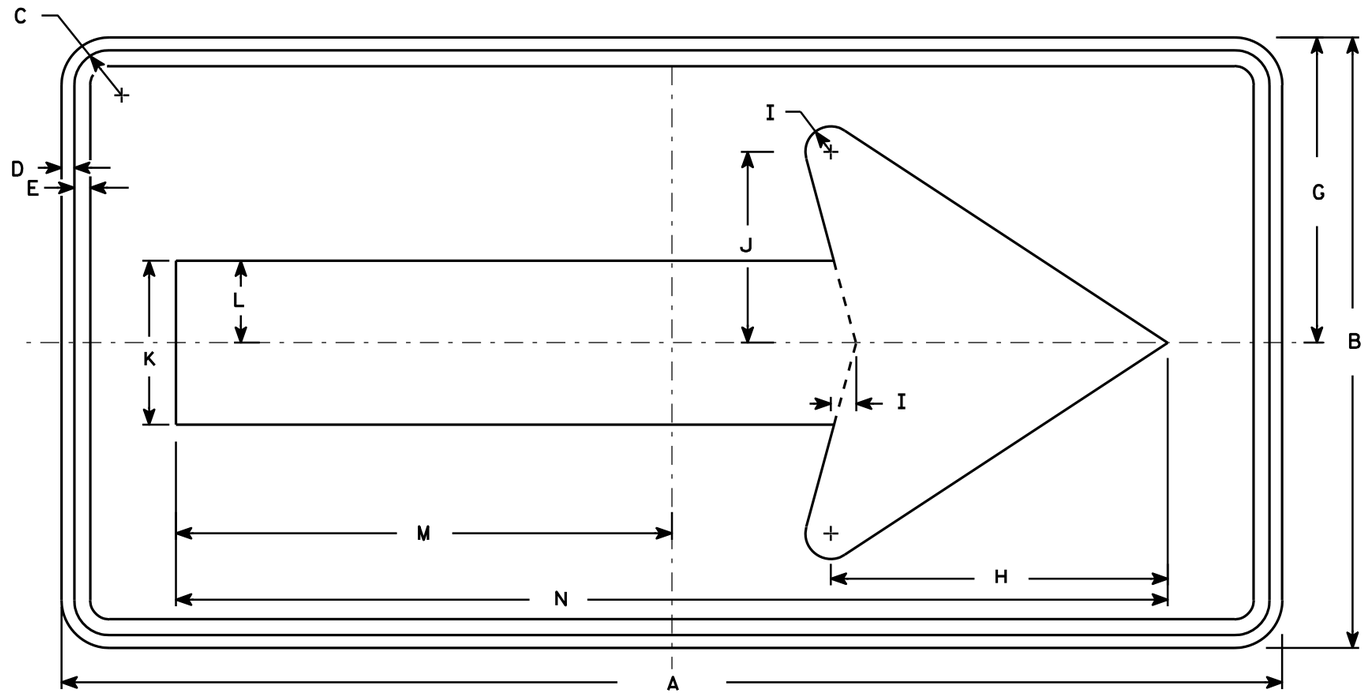
STANDARD SIGN
W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/15/12 PLATE NO. W1-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 159	E



W1-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - 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	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

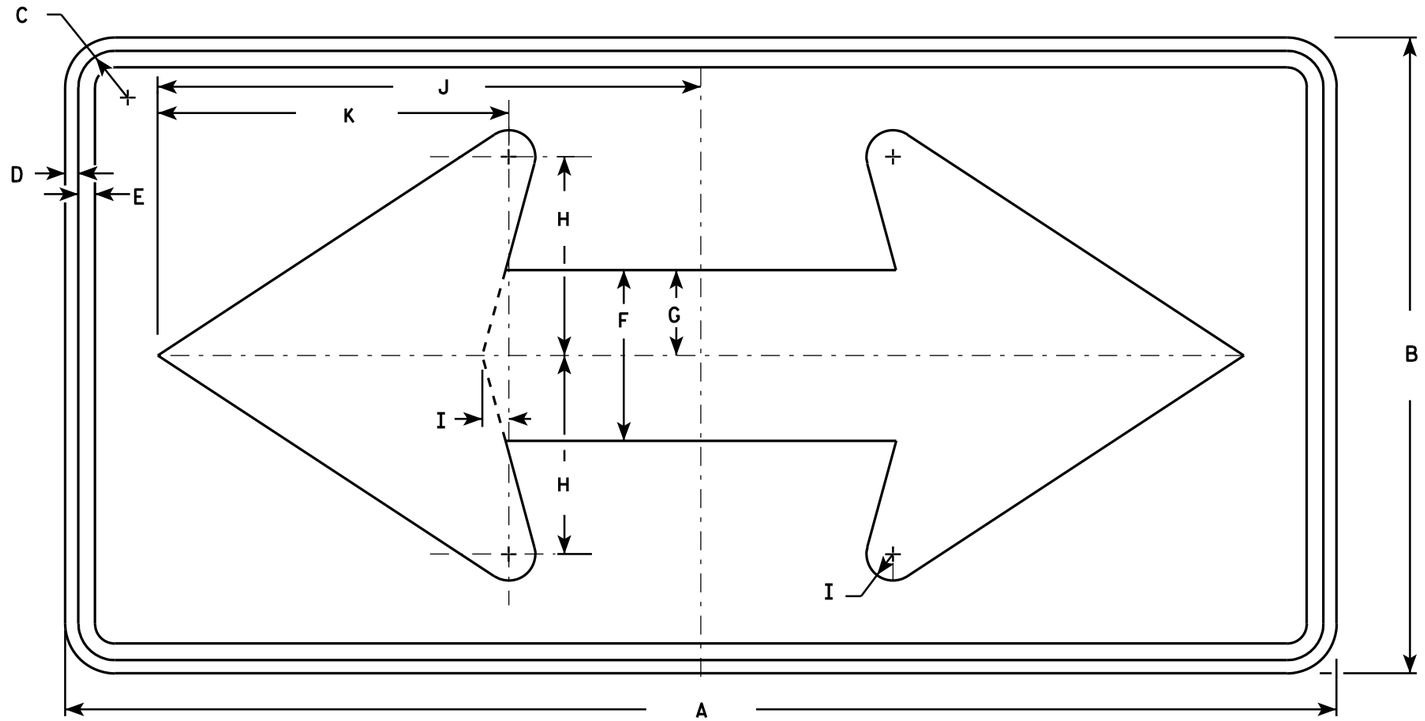
STANDARD SIGN
W1-6

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: 160



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

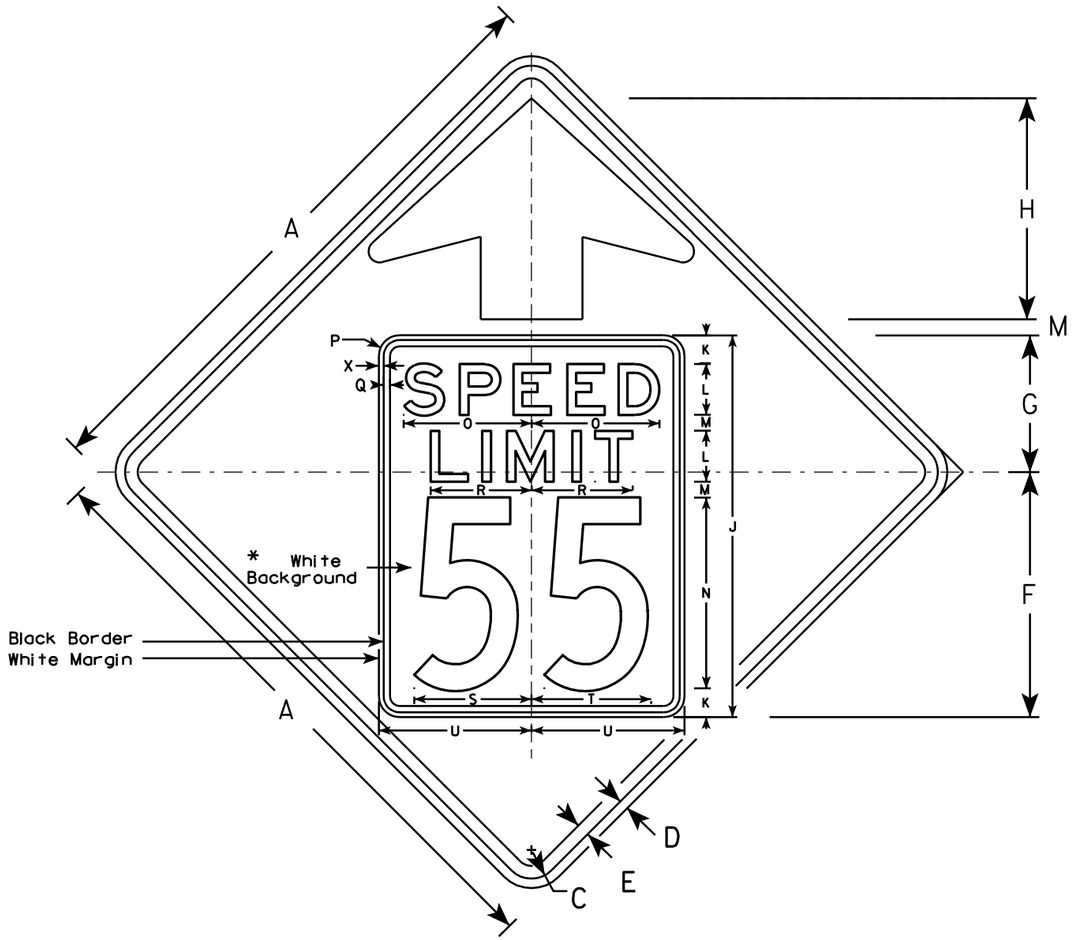
STANDARD SIGN
W1-7

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: 161 | E

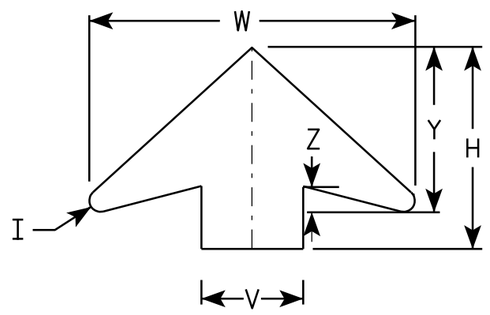


W3-5

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

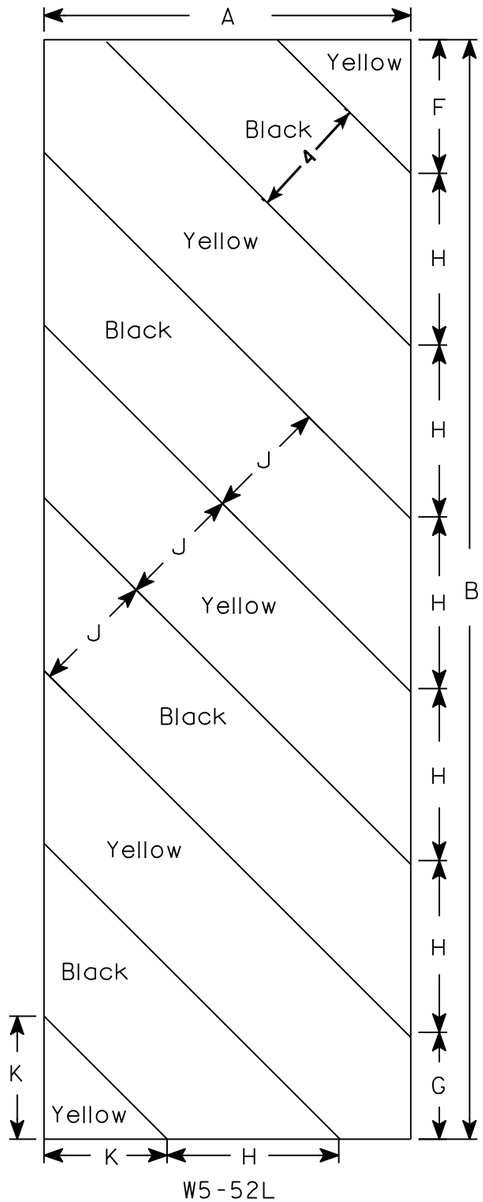
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

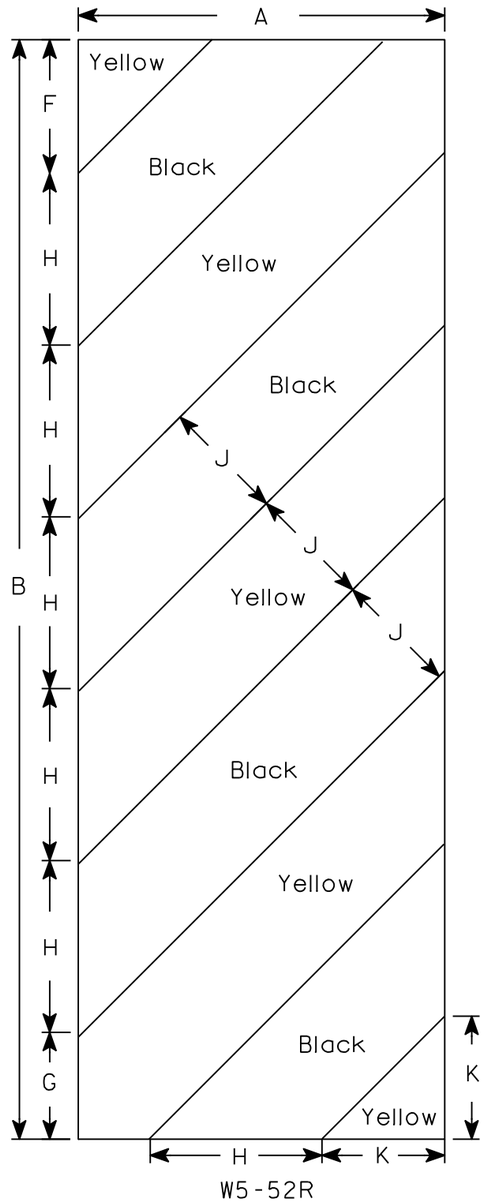
DATE 5/29/12 PLATE NO. W3-5.5

PROJECT NO:

SHEET NO: 162 E



W5-52L



W5-52R

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. Alternate colors of stripes as shown.

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	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
2M	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
3	18	54				6	5 1/2	8 1/2	45°	6	6 9/16																6.75
4																											
5																											

STANDARD SIGN

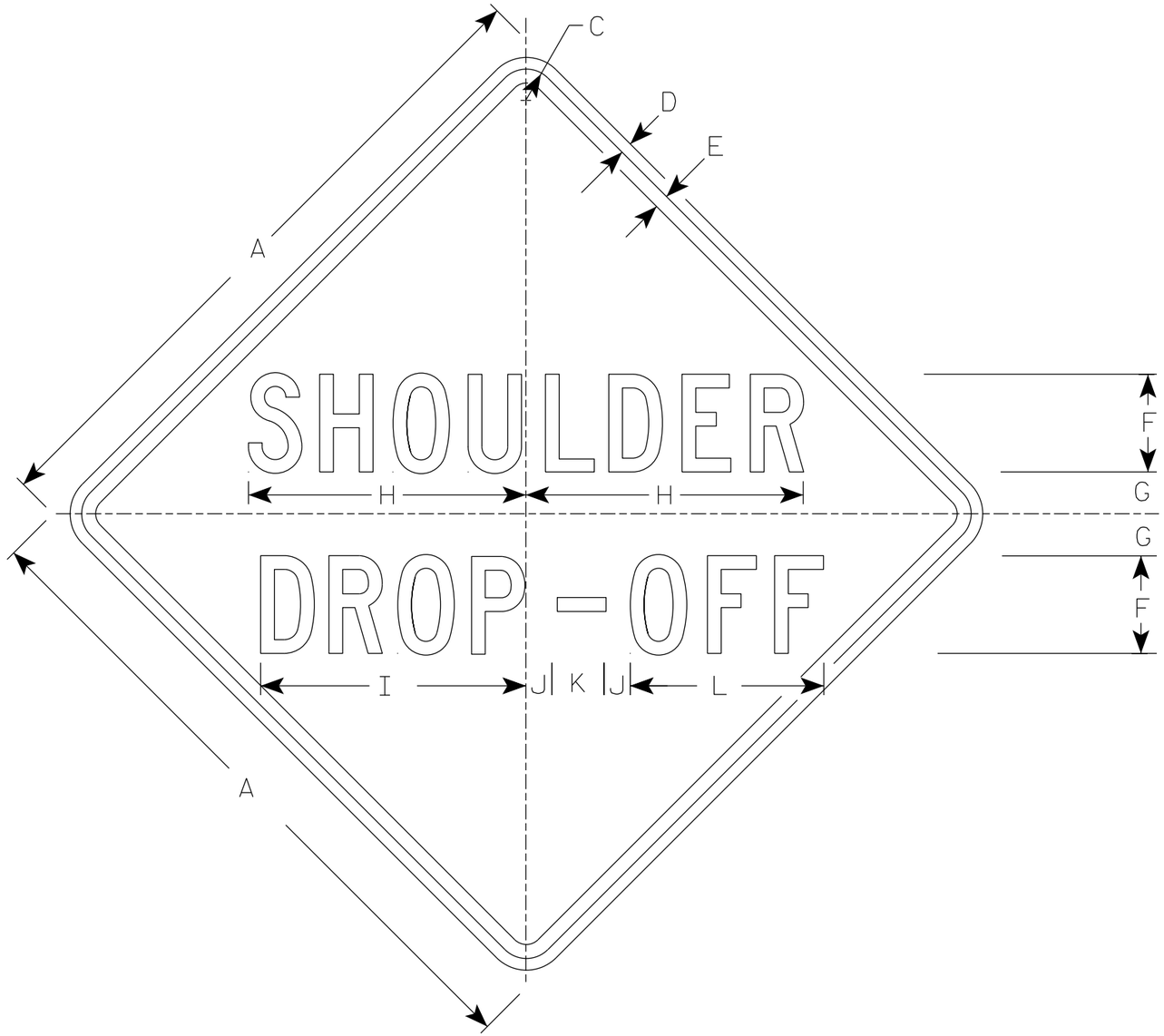
W5-52L & W5-52R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W5-52.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 163	E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48		2 1/4	3/4	1	7	3	19 7/8	19	1 7/8	3 3/4																16.0
2M	48		2 1/4	3/4	1	7	3	19 7/8	19	1 7/8	3 3/4																16.0
3	48		2 1/4	3/4	1	7	3	19 7/8	19	1 7/8	3 3/4																16.0
4	48		2 1/4	3/4	1	7	3	19 7/8	19	1 7/8	3 3/4																16.0
5	48		2 1/4	3/4	1	7	3	19 7/8	19	1 7/8	3 3/4																16.0

STANDARD SIGN
W8-9A

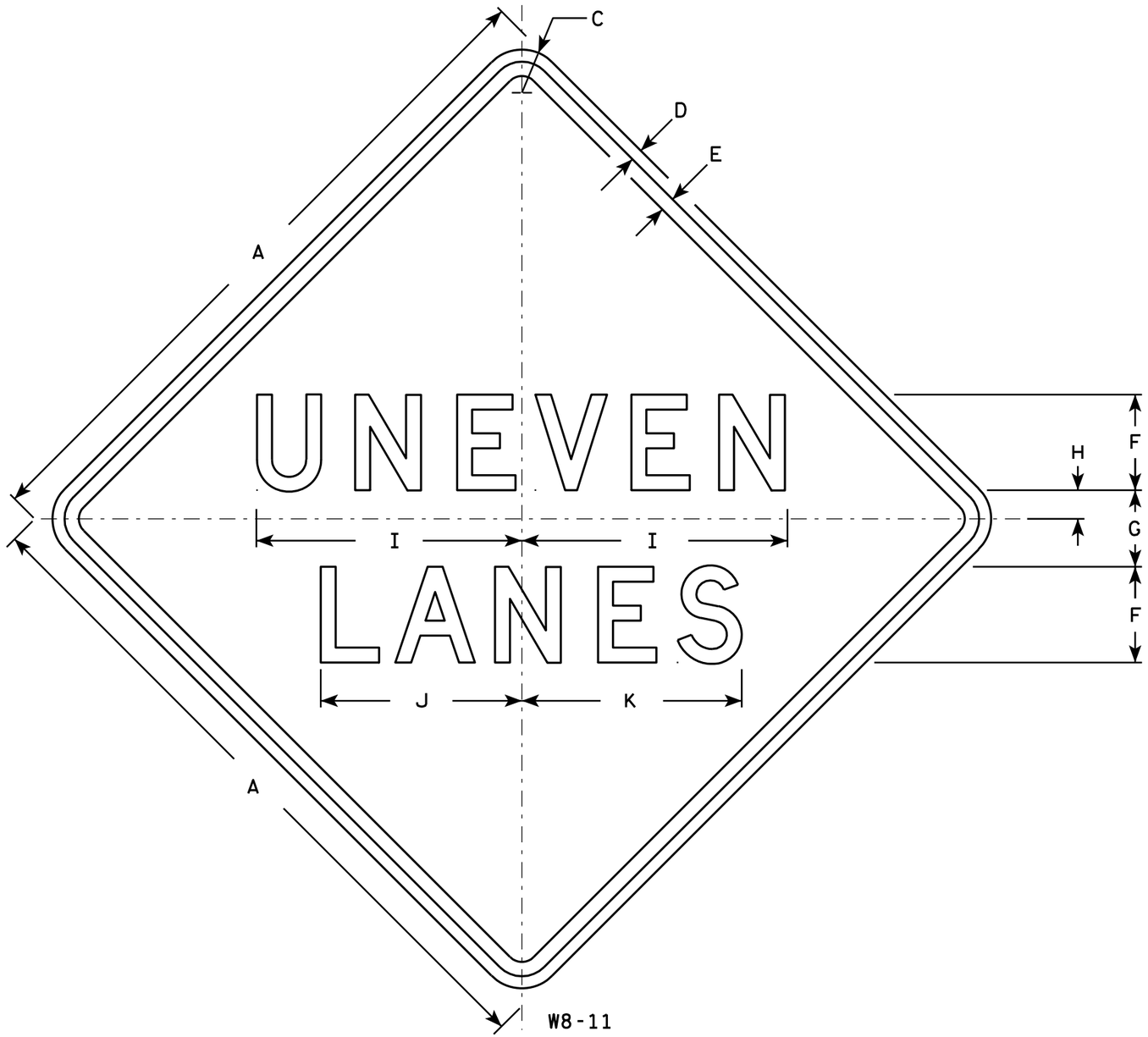
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/23/11 PLATE NO. W8-9A.3

PROJECT NO:

SHEET NO: 164 E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		1 5/8	5/8	3/4	5	4	1 1/2	13 7/8	10 1/2	11 1/2																9.0
2M	36		1 5/8	5/8	3/4	5	4	1 1/2	13 7/8	10 1/2	11 1/2																9.0
3																											
4	36		1 5/8	5/8	3/4	5	4	1 1/2	13 7/8	10 1/2	11 1/2																9.0
5	48		2 1/4	3/4	1	7	5	2	18 1/2	14	15 3/8																16.0

STANDARD SIGN
W8-11

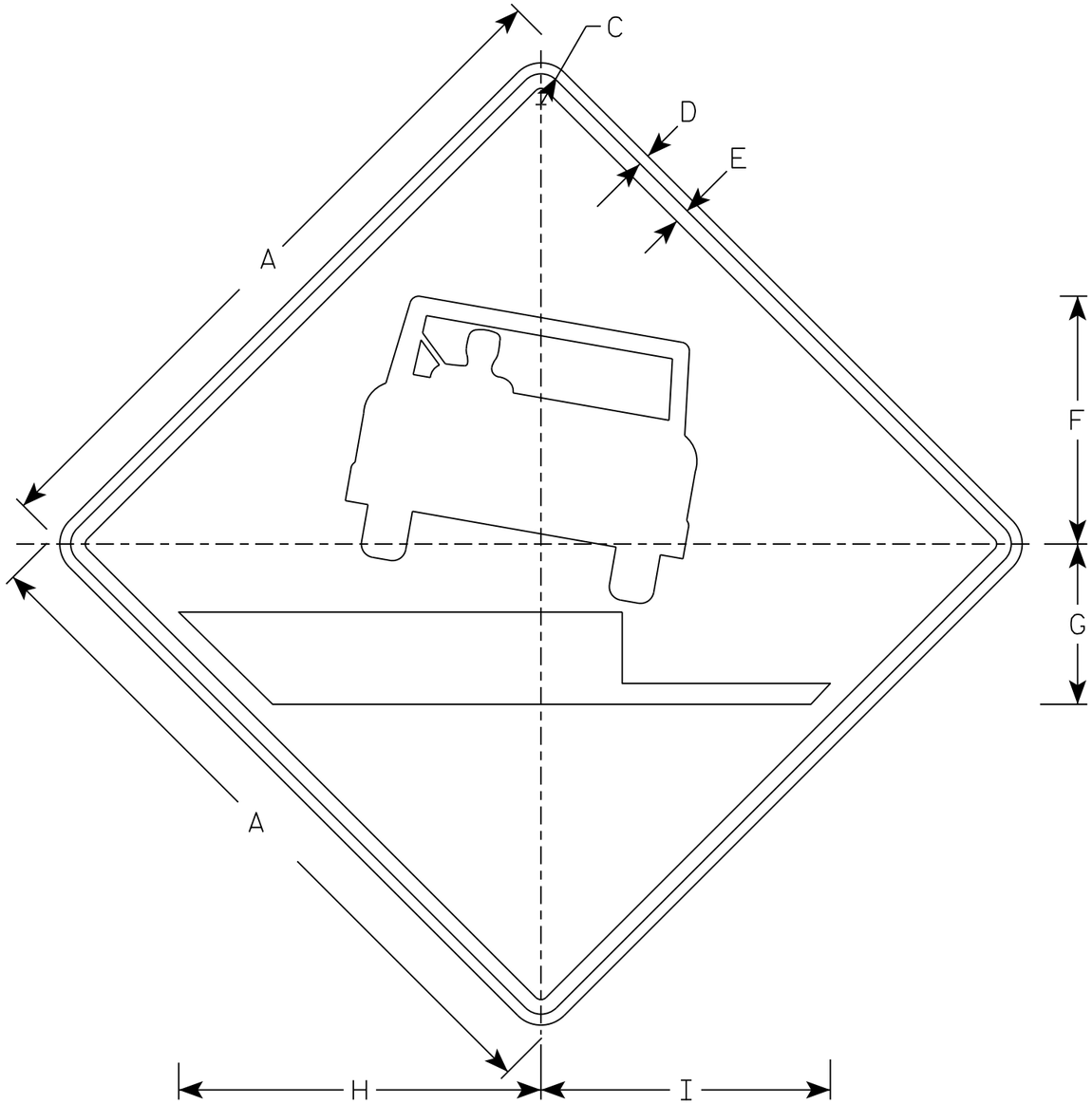
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/22/11 PLATE NO. W8-11.4

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 165 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W811.DGN PLOT DATE : 22-MAR-2011 14:12 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 6.703924:1.000000
WISDOT/CADDS SHEET 42



W8-17

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48		2 1/4	3/4	1	17	11	24 7/8	19 7/8																		16.0
2M	48		2 1/4	3/4	1	17	11	24 7/8	19 7/8																		16.0
3	48		2 1/4	3/4	1	17	11	24 7/8	19 7/8																		16.0
4	48		2 1/4	3/4	1	17	11	24 7/8	19 7/8																		16.0
5	48		2 1/4	3/4	1	17	11	24 7/8	19 7/8																		16.0

STANDARD SIGN
W8-17

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/10/17 PLATE NO. W8-17.1

PROJECT NO:

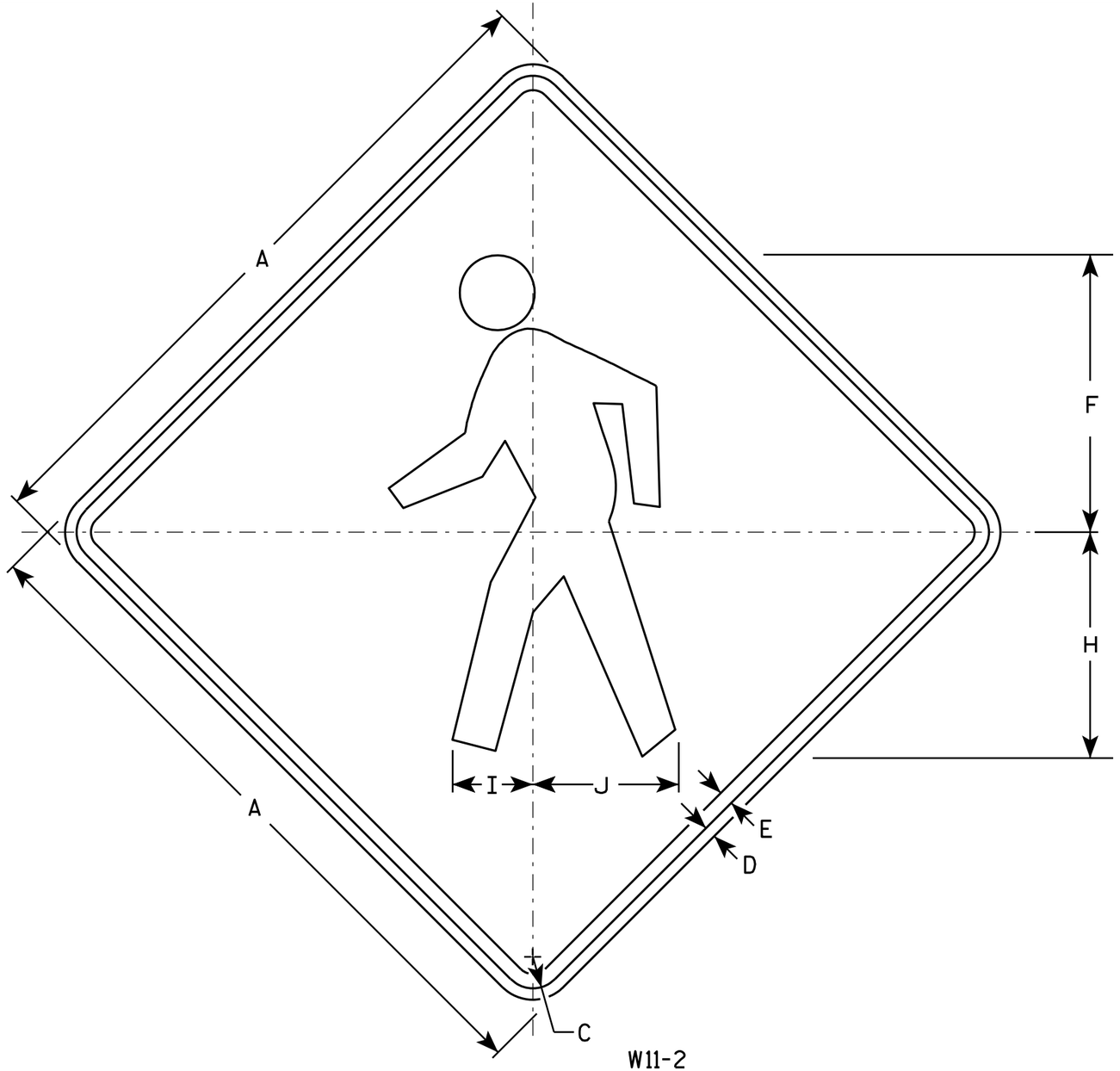
SHEET NO: 166 E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W817.DGN PLOT DATE : 10-OCT-2017 14:20 PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 42

7

7



W11-2

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	9 3/4		7 7/8	2 7/8	5 1/8																	4.0
2S	30		1 3/8	1/2	5/8	12 1/8		9 7/8	3 1/2	6 3/8																	6.25
2M	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
3	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
4	48		2 1/4	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
5																											

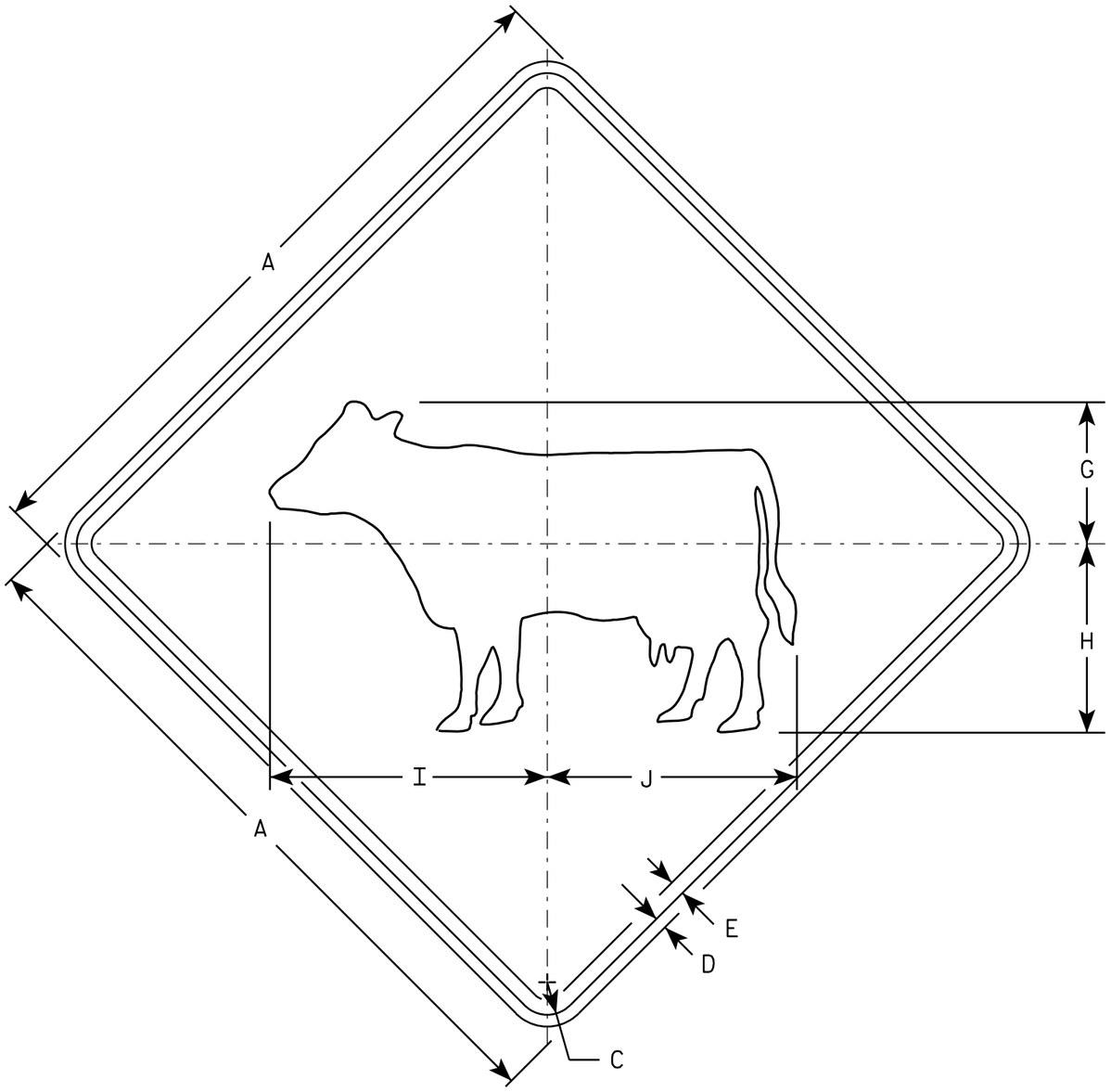
STANDARD SIGN
W11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W11-2.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 167	E



W11-4

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 3/4	6 3/8	9 1/4	8 3/8																	4.0
2S	30		1 3/8	1/2	5/8		6	8	11 3/4	10 1/2																	6.25
2M	30		1 3/8	1/2	5/8		6	8	11 3/4	10 1/2																	6.25
3	36		1 5/8	5/8	3/4		7 1/4	9 5/8	14 1/8	12 5/8																	9.0
4	36		1 5/8	5/8	3/4		7 1/4	9 5/8	14 1/8	12 5/8																	9.0
5	48		2 1/4	3/4	1		9 1/2	12 5/8	18 1/2	16 5/8																	16.0

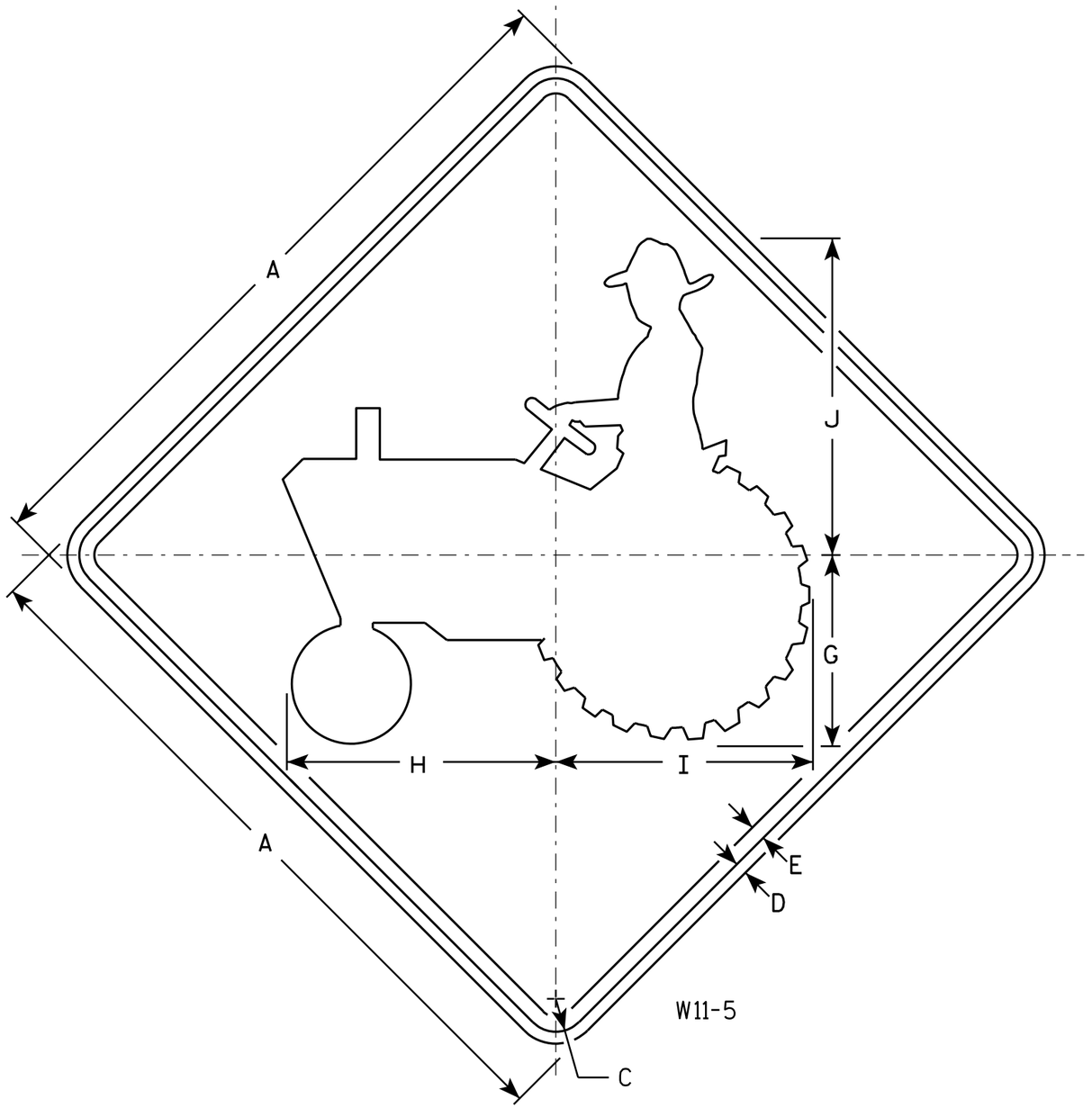
STANDARD SIGN
W11-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/13/13 PLATE NO. W11-4.5

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 168	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.

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		6 3/8	9	8 5/8	10 5/8																	4.0
2S	30		1 3/8	1/2	5/8		8	11 1/4	10 3/4	13 1/4																	6.25
2M	30		1 3/8	1/2	5/8		8	11 1/4	10 3/4	13 1/4																	6.25
3																											
4	36		1 5/8	5/8	3/4		9 5/8	13 1/2	12 7/8	16																	9.0
5	48		2 1/4	3/4	1		12 3/4	18	17 1/4	21 1/8																	16.0

STANDARD SIGN
W11-5

WISCONSIN DEPT OF TRANSPORTATION

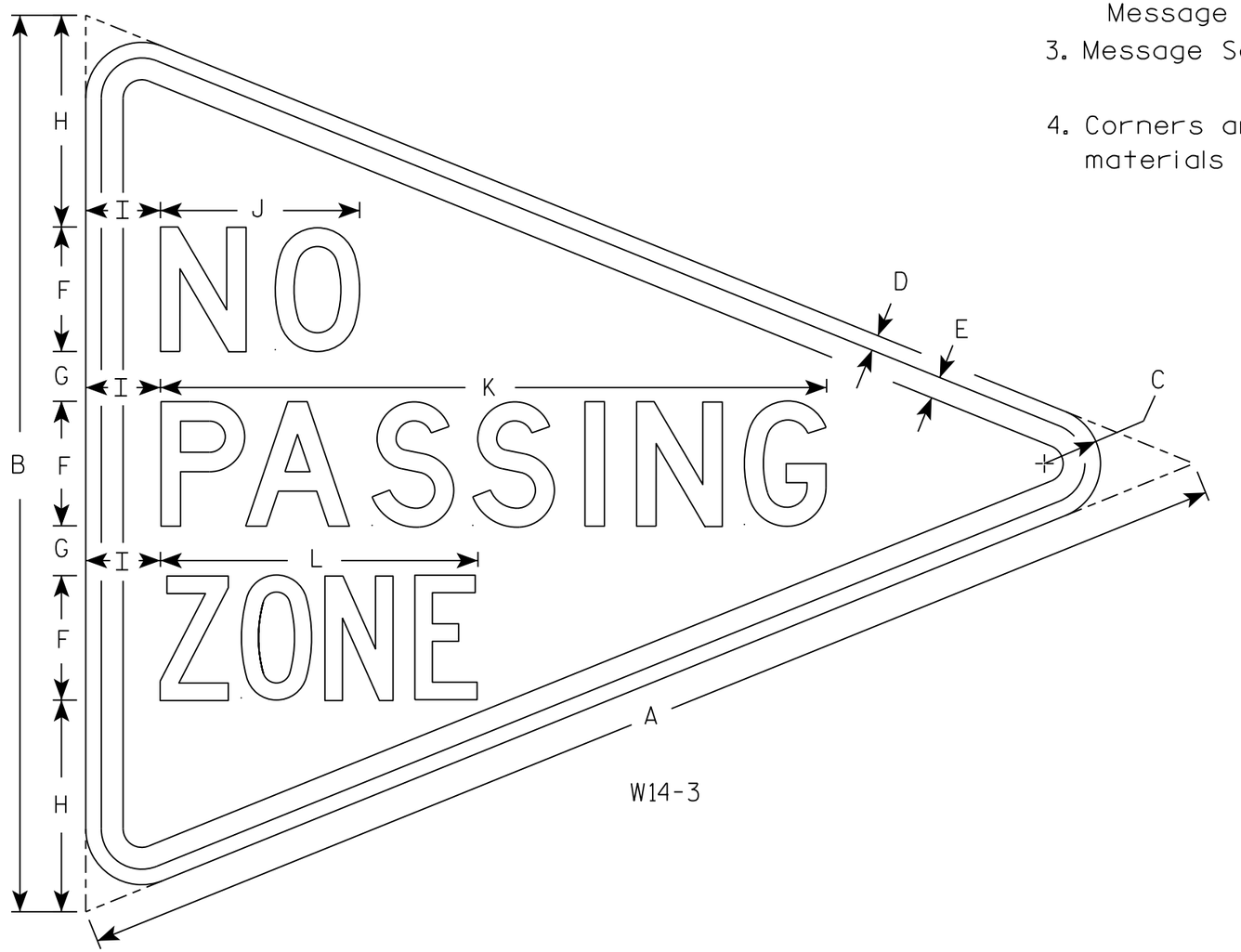
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/13/15 PLATE NO. W11-5.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 169	E

NOTES

1. Sign is Type II- Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - Lines 1 and 2 are Series D.
   Line 3 is series C.
4. Corners and borders shall be rounded on all base materials for this sign.



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															5.56
2M																											
3																											
4																											
5																											

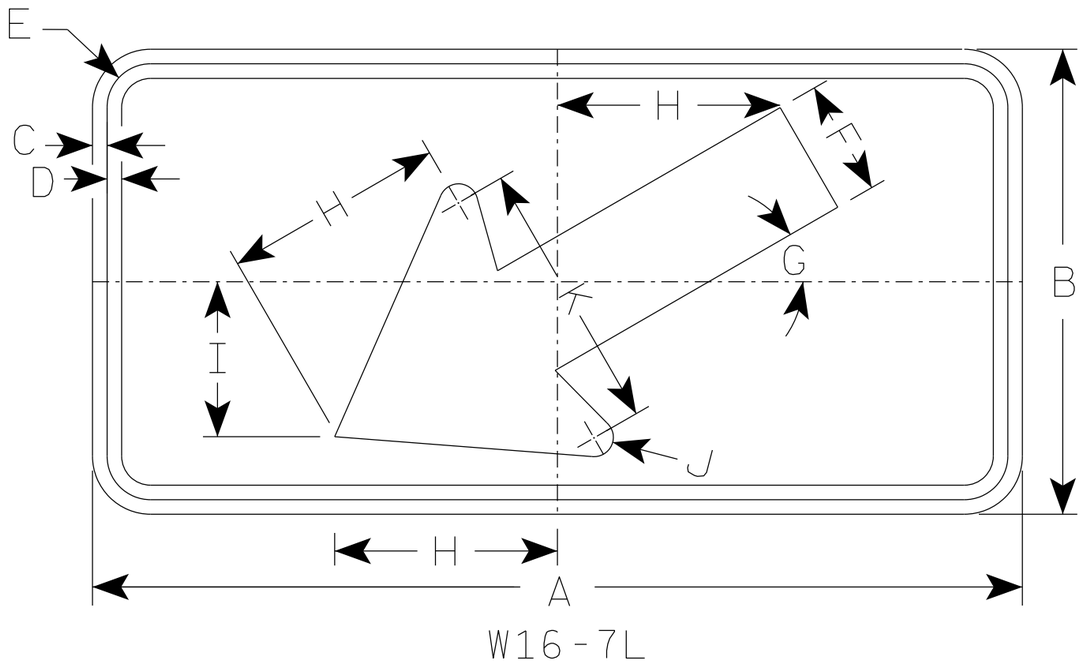
STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/17 PLATE NO. W14-3.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 170 | E



W16-7L

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. W16-7R is the same as W16-L
   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																											
2S	24	12	3/8	3/8	1 1/8	3	30°	5 3/4	4	1/2	7																2.0
2M	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
3	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
4	48	24	1/2	5/8	1 3/8	6	30°	11 1/2	8	1	14																8.0
5																											

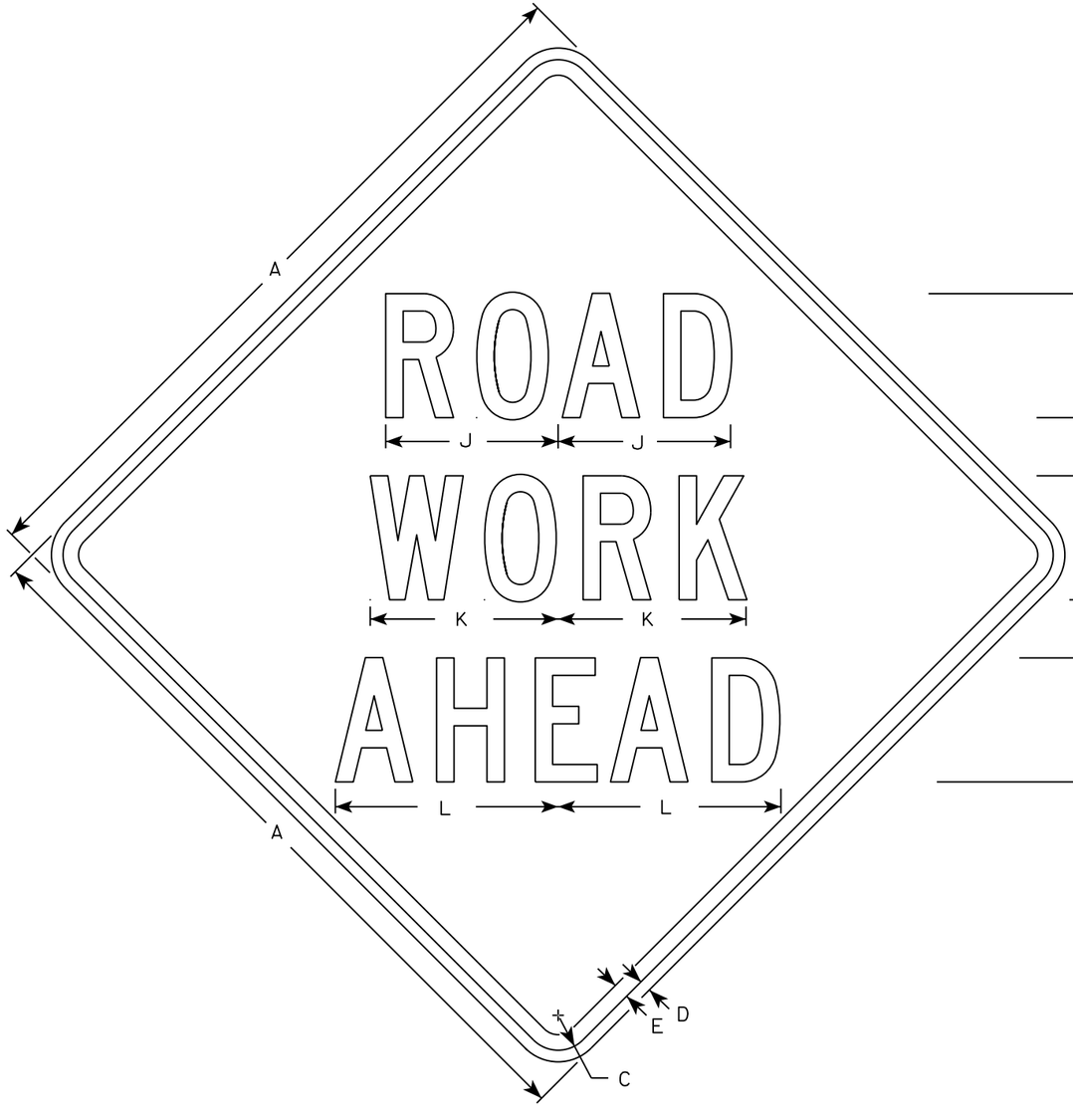
STANDARD SIGN
W16-7

WISCONSIN DEPT OF TRANSPORTATION

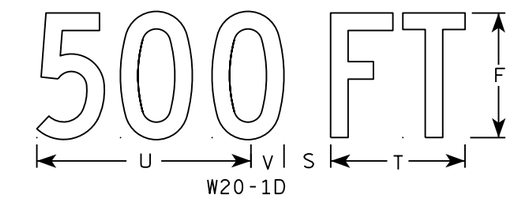
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 7/11/18 PLATE NO. W16-7.6

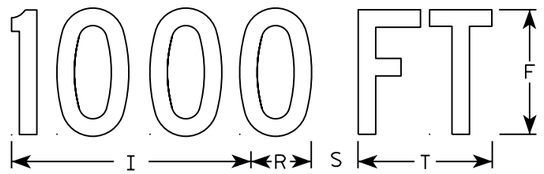
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 171 | E



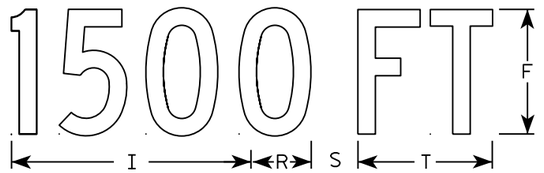
W20-1A



W20-1D



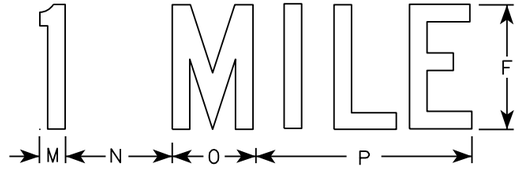
W20-1C



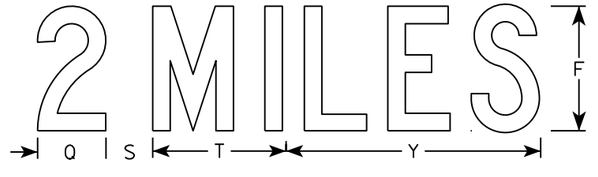
W20-1B



W20-1G



W20-1F



W20-1E

NOTES

1. Sign is Type II - Type F Reflective
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	2 1/4	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	4 3/8	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	4 3/8	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	4 3/8	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	4 3/8	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	4 3/8	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

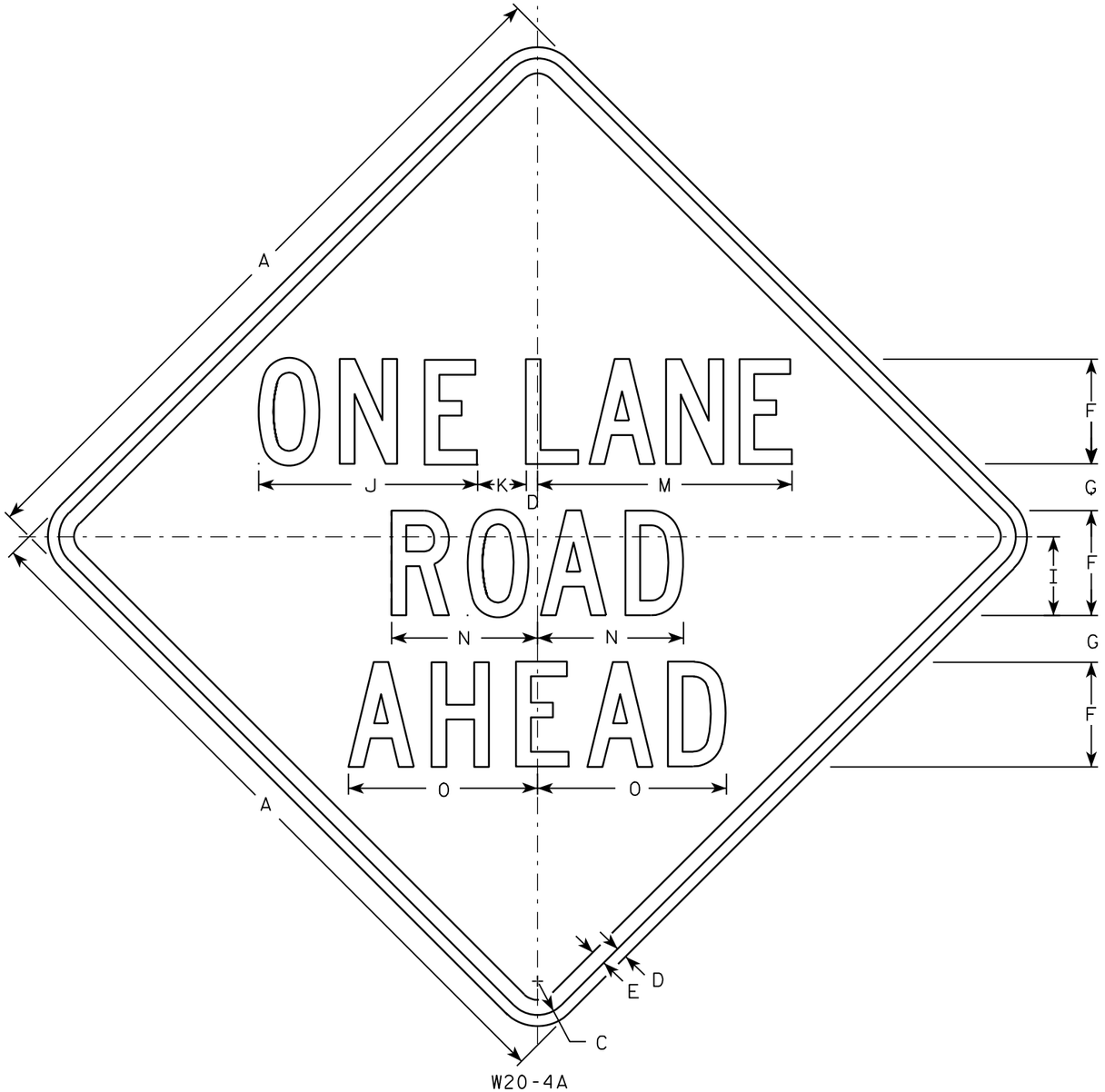
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/07/15 PLATE NO. W20-1.10

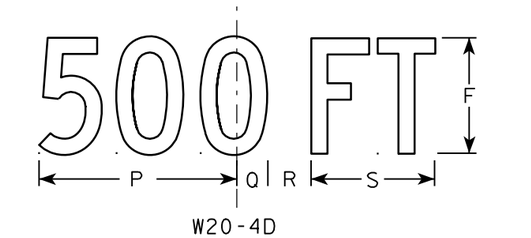
PROJECT NO:

SHEET NO: E

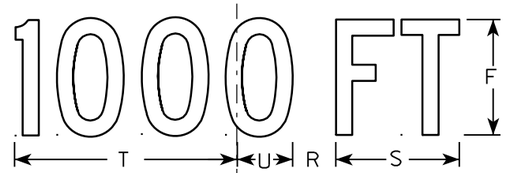
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 01-DEC-2015 18:24 PLOT BY : $$ plotuser $$



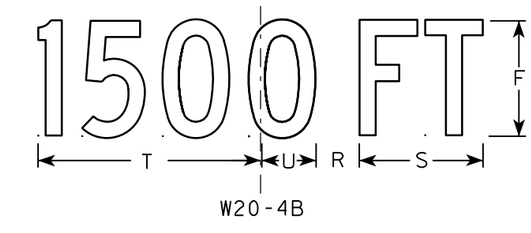
W20-4A



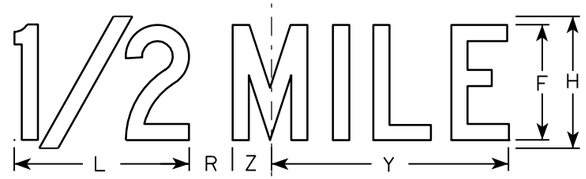
W20-4D



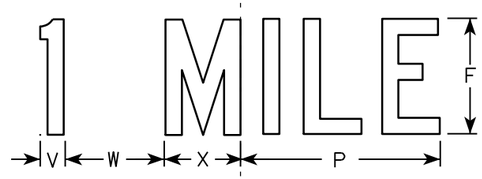
W20-4C



W20-4B



W20-4G



W20-4F

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 5/8	5/8	3/4	5	2 3/8	6	3 3/4	10 3/8	2 3/8	8	13 1/2	7	8 7/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-4A, B, C, D, F & G

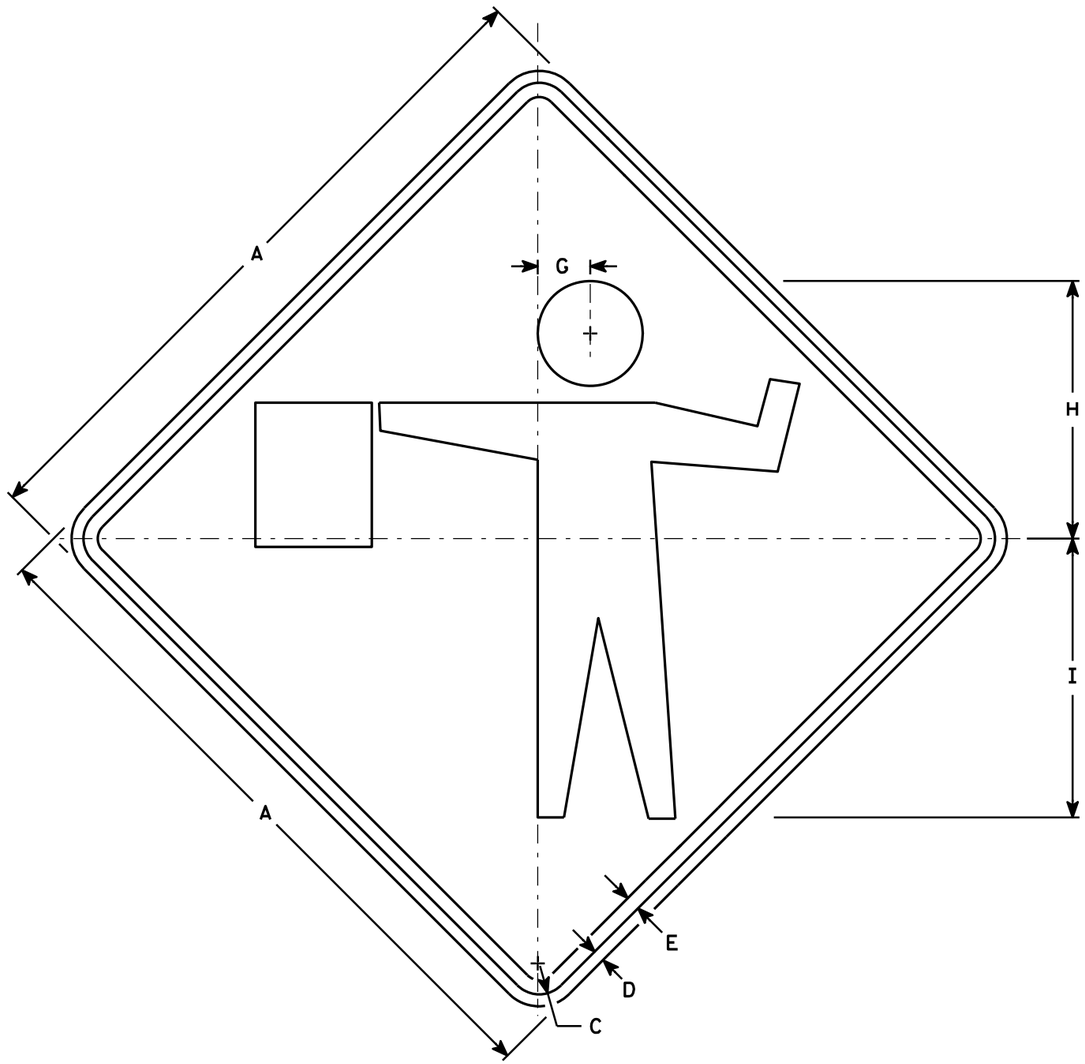
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-4.9

PROJECT NO:

SHEET NO: 173 E



W20-7A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4		2 3/4	13 1/2	14 5/8																		9.00
2S	48		2 1/4	3/4	1		3 3/4	18	19 1/2																		16.00
2M	48		2 1/4	3/4	1		3 3/4	18	19 1/2																		16.00
3	48		2 1/4	3/4	1		3 3/4	18	19 1/2																		16.00
4	48		2 1/4	3/4	1		3 3/4	18	19 1/2																		16.00
5	48		2 1/4	3/4	1		3 3/4	18	19 1/2																		16.00

STANDARD SIGN
W20-7A

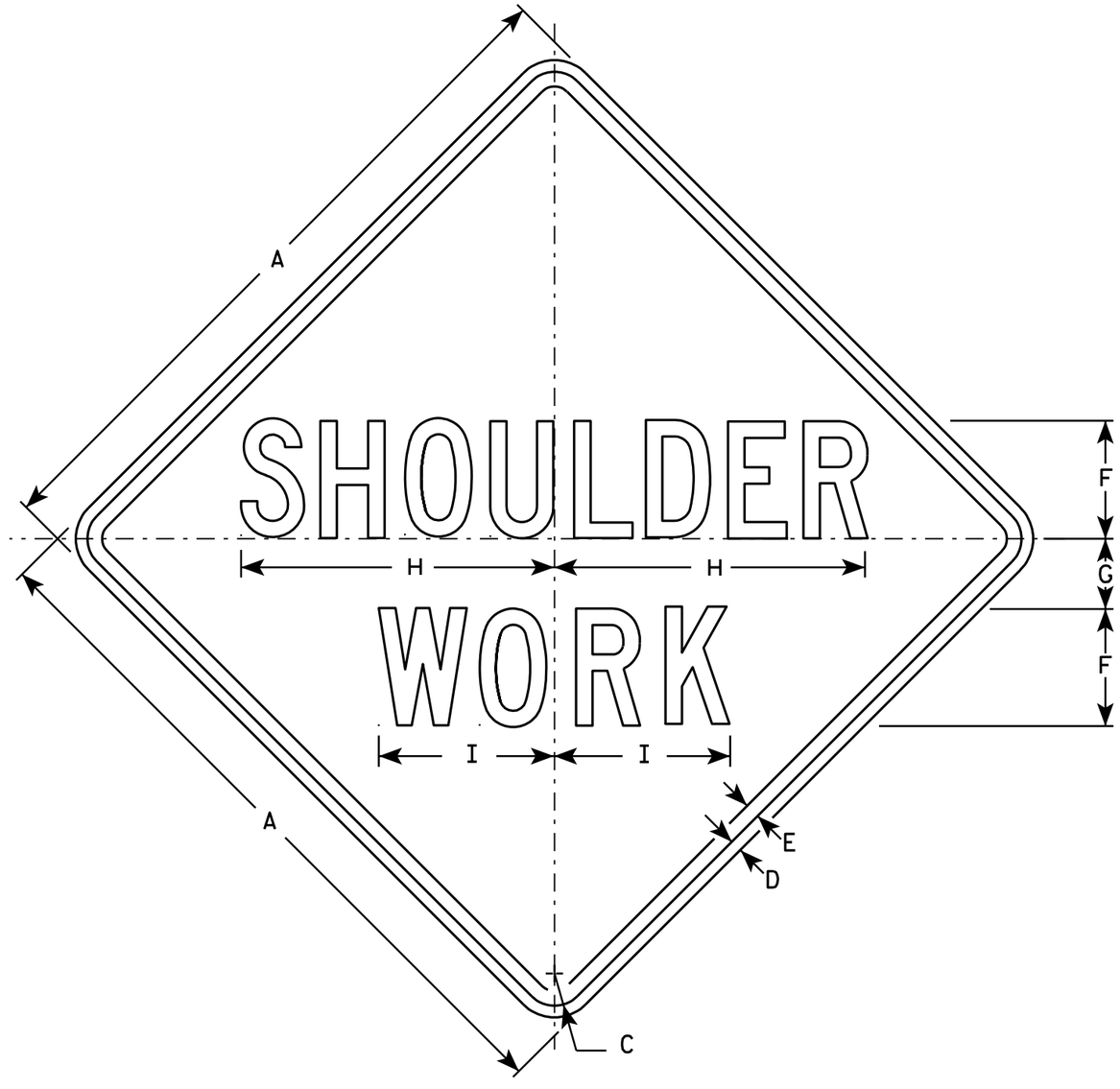
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-7A.5

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 174 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W207A.DGN PLOT DATE : 18-MAR-2011 13:14 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 7.945391:1.000000 WISDOT/CADDS SHEET 42



W21-5

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - 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	24		1 1/8	3/8	1/2	4	2 1/2	10 3/4	6																		4.0
2S	30		1 3/8	1/2	5/8	5	3	13 3/8	7 1/2																		6.25
2M	30		1 3/8	1/2	5/8	5	3	13 3/8	7 1/2																		6.25
3	36		1 5/8	5/8	3/4	6	3 1/2	16	9																		9.0
4	48		2 1/4	3/4	1	8	5	21 3/8	11 1/4																		16.0
5	48		2 1/4	3/4	1	8	5	21 3/8	11 1/4																		16.0

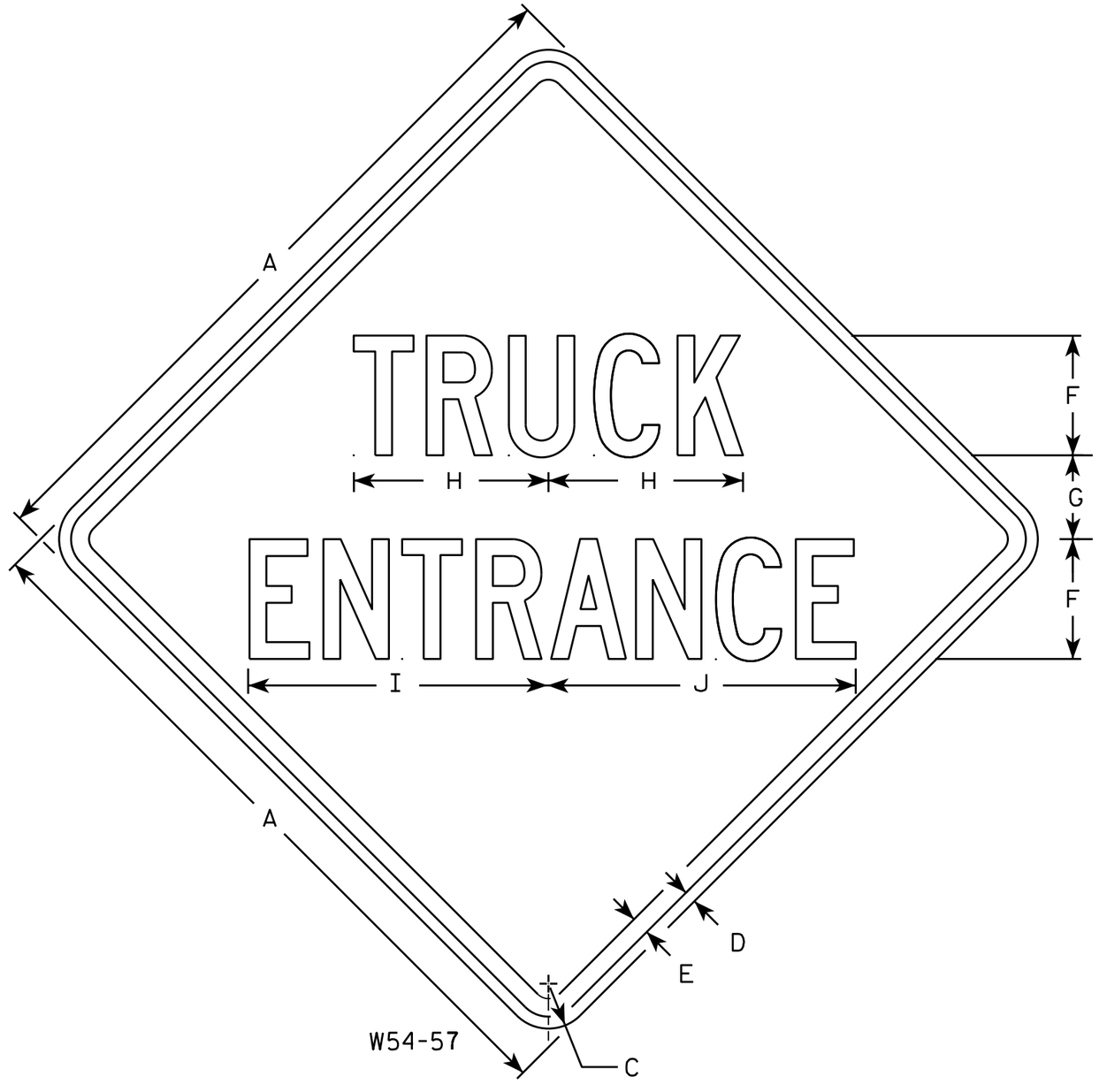
STANDARD SIGN
W21-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/11 PLATE NO. W21-5.5

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 175	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 - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 3/8	1/2	5/8	5	3 1/2	8 1/8	12 1/2	12 7/8																	6.25
2M	36		1 5/8	5/8	3/4	6	4 1/4	9 5/8	15	15 3/8																	9.00
3	36		1 5/8	5/8	3/4	6	4 1/4	9 5/8	15	15 3/8																	9.00
4	48		2 1/4	3/4	1	8	5 1/2	13	20	20 5/8																	16.00
5																											

STANDARD SIGN
W54-57

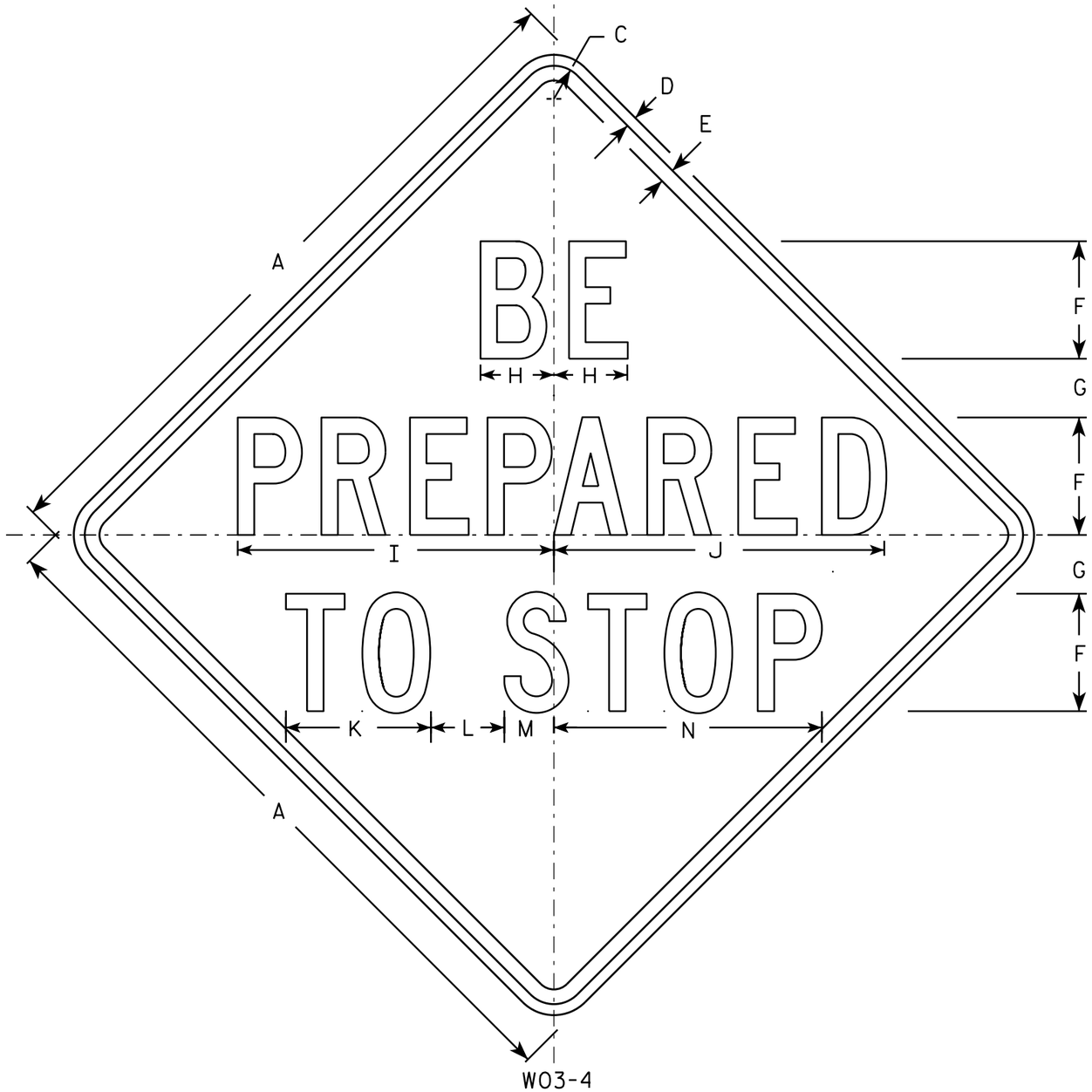
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE W54-57.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W5457.DGN PLOT DATE : 27-APR-2016 10:05 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.594294:1.000000 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 - 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	6	2 1/2	3 3/4	15 7/8	16 7/8	7 3/8	4	2 3/8	13 3/4													9.0
2S	48		2 1/4	3/4	1	8	4	5	21 1/2	22 1/2	9 7/8	5	3 3/8	18 1/4													16.0
2M	48		2 1/4	3/4	1	8	4	5	21 1/2	22 1/2	9 7/8	5	3 3/8	18 1/4													16.0
3	48		2 1/4	3/4	1	8	4	5	21 1/2	22 1/2	9 7/8	5	3 3/8	18 1/4													16.0
4	48		2 1/4	3/4	1	8	4	5	21 1/2	22 1/2	9 7/8	5	3 3/8	18 1/4													16.0
5	48		2 1/4	3/4	1	8	4	5	21 1/2	22 1/2	9 7/8	5	3 3/8	18 1/4													16.0

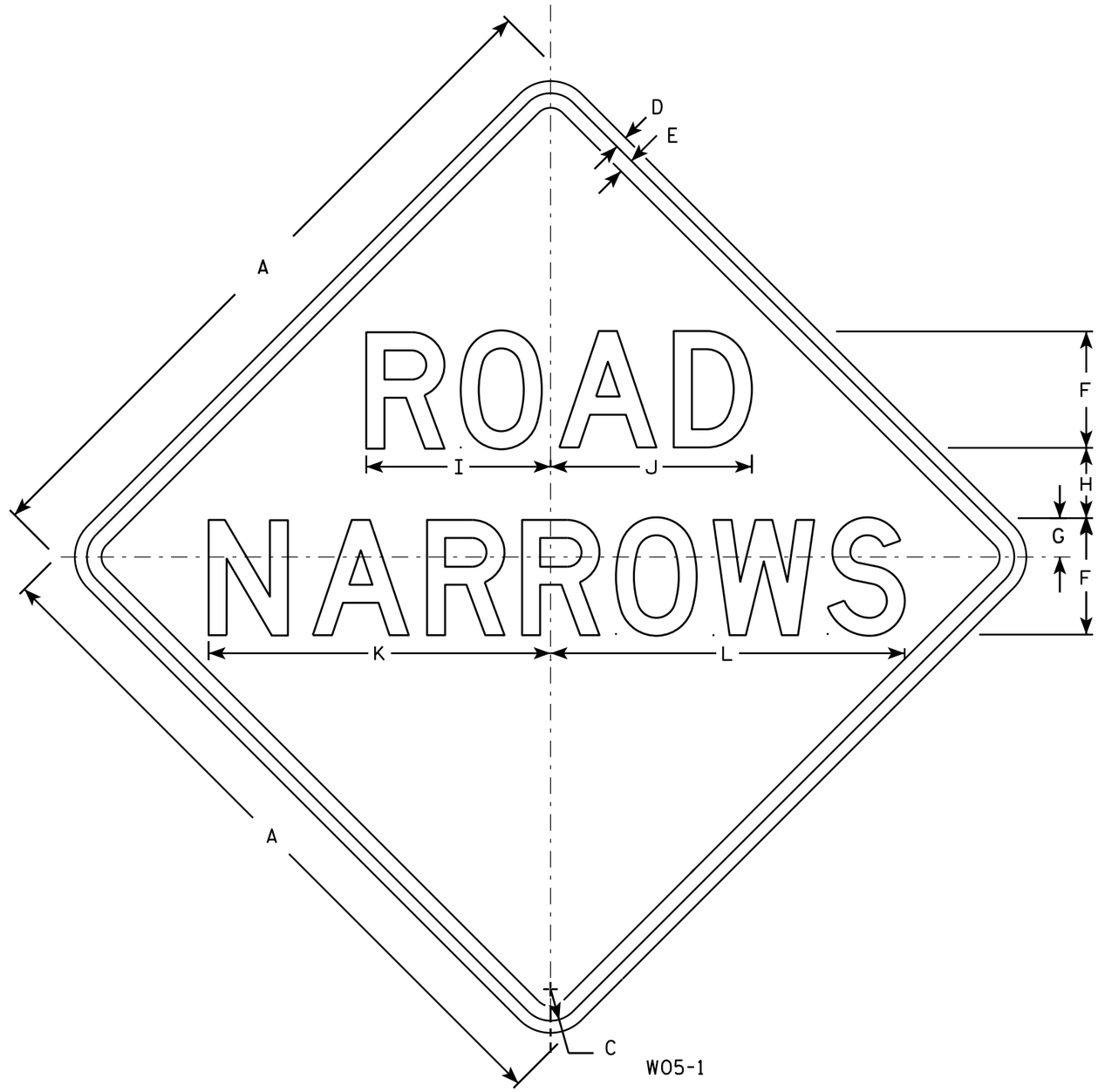
STANDARD SIGN
W03-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/02/13 PLATE NO. W03-4.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



W05-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	6	2	3 1/2	9 1/2	10 3/8	17 5/8	18 1/4															9.0
2S	48		2 1/4	3/4	1	8	3	4	12 3/4	13 3/4	23 1/2	24 3/8															16.0
2M	48		2 1/4	3/4	1	8	3	4	12 3/4	13 3/4	23 1/2	24 3/8															16.0
3	48		2 1/4	3/4	1	8	3	4	12 3/4	13 3/4	23 1/2	24 3/8															16.0
4	48		2 1/4	3/4	1	8	3	4	12 3/4	13 3/4	23 1/2	24 3/8															16.0
5	48		2 1/4	3/4	1	8	3	4	12 3/4	13 3/4	23 1/2	24 3/8															16.0

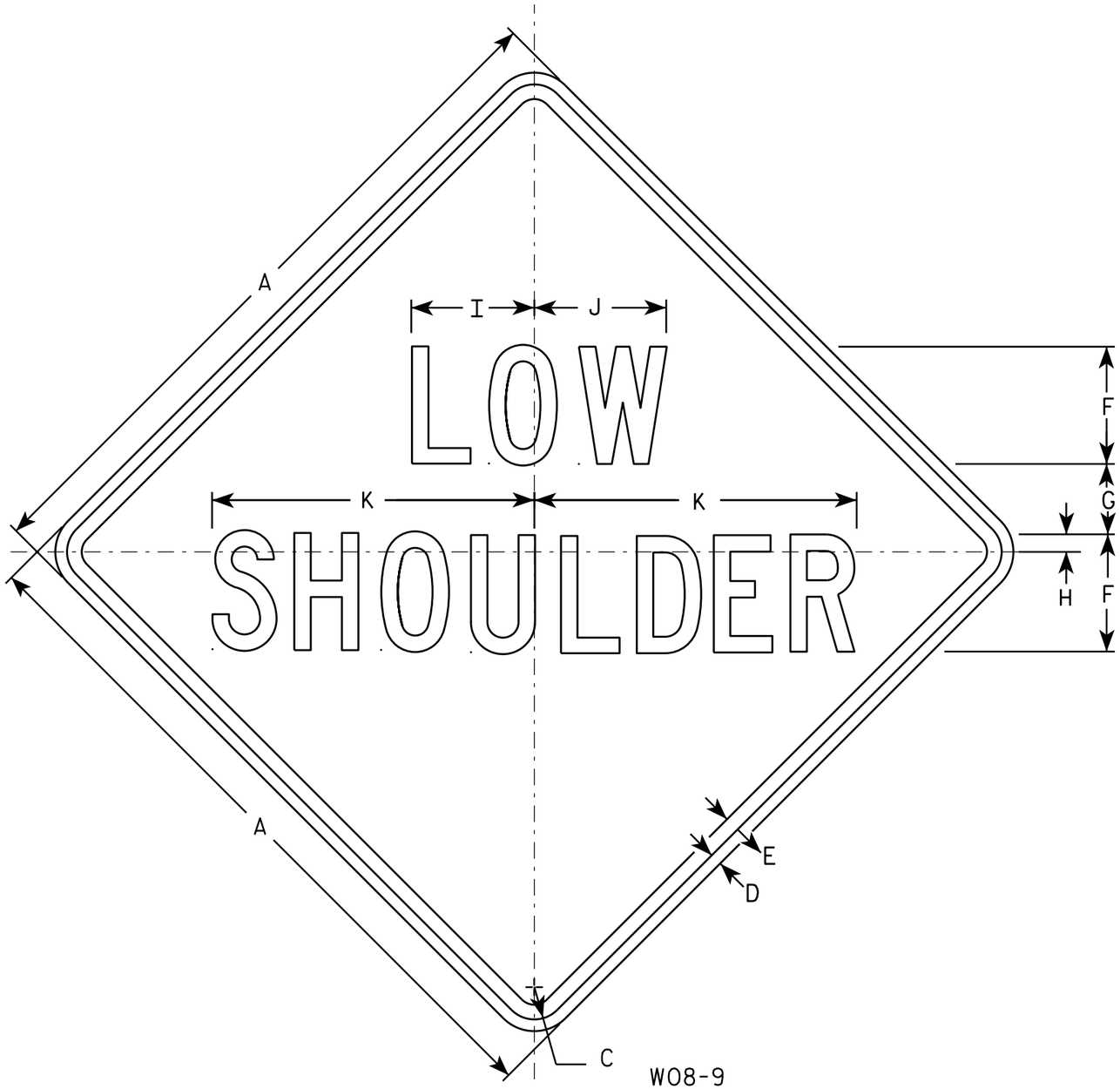
STANDARD SIGN
W05-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE NO. W05-1.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



W08-9

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 5/8	5/8	3/4	6	3 1/2	1	6 1/4	6 3/4	16 1/2																9.0
2S	48		2 1/4	3/4	1	8	5	1 1/4	8 1/4	9	21 7/8																16.0
2M	48		2 1/4	3/4	1	8	5	1 1/4	8 1/4	9	21 7/8																16.0
3	48		2 1/4	3/4	1	8	5	1 1/4	8 1/4	9	21 7/8																16.0
4	48		2 1/4	3/4	1	8	5	1 1/4	8 1/4	9	21 7/8																16.0
5	48		2 1/4	3/4	1	8	5	1 1/4	8 1/4	9	21 7/8																16.0

STANDARD SIGN
W08-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE W08-9.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W089.DGN PLOT DATE : 20-NOV-2013 14:06 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.755110:1.000000
WISDOT/CADDS SHEET 42

STH 67 EARTHWORK SUMMARY - STEEP SLOPES

Station	Distance	Area (SF)					Incremental Vol (CY) (Unadjusted)					Cumulative Vol (CY)					
		Cut	EBS	Salvaged / Unusable Pavement Material	Fill	Rock Exc	Cut	EBS	Salvaged / Unusable Pavement Material	Fill	Rock Exc	Cut 1.00	EBS	Salvaged / Unusable Pavement Material	Expanded Fill 1.15	Expanded Rock 1.10	Mass Ordinate
1005+50		10.9	0	0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
1006+00	50	9.4	0	0	0.2	0	19	0	0	0	0	19	0	0	0	0	19
1006+50	50	5.9	0	0	0.2	0	14	0	0	0	0	33	0	0	1	0	32
1007+00	50	3.1	0	0	0.9	0	8	0	0	1	0	41	0	0	2	0	40
1007+50	50	0.5	0	0	1.2	0	3	0	0	2	0	45	0	0	4	0	41
1008+00	50	5.0	0	0	0.6	0	5	0	0	2	0	50	0	0	6	0	44
1008+50	50	3.9	0	0	0.2	0	8	0	0	1	0	58	0	0	7	0	51
1009+00	50	0.0	0	0	0.0	0	4	0	0	0	0	61	0	0	7	0	55
1009+50	50	3.0	0	0	0.1	0	3	0	0	0	0	64	0	0	7	0	57
1010+50		1.1	0	0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
1011+00	50	0.8	0	0	1.0	0	2	0	0	1	0	2	0	0	1	0	1
1011+50	50	0.7	0	0	4.3	0	1	0	0	5	0	3	0	0	7	0	-3
1012+00	50	0.8	0	0	7.9	0	1	0	0	11	0	4	0	0	20	0	-15
1012+50	50	0.9	0	0	12.4	0	1	0	0	19	0	6	0	0	41	0	-35
1015+50		2.6	0	0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
1016+00	50	6.8	0	0	0.1	0	9	0	0	0	0	9	0	0	0	0	9
1016+50	50	0.0	0	0	0.0	0	6	0	0	0	0	15	0	0	0	0	15
1017+00	50	2.0	0	0	0.0	0	2	0	0	0	0	17	0	0	0	0	17
1017+50	50	5.8	0	0	1.9	0	7	0	0	2	0	24	0	0	2	0	22
1018+00	50	3.0	0	0	0.2	0	8	0	0	2	0	32	0	0	4	0	28
1018+50	50	3.0	0	0	0.0	0	6	0	0	0	0	38	0	0	5	0	33
1019+00	50	2.1	0	0	0.0	0	5	0	0	0	0	42	0	0	5	0	38
1029+00		6.3	0	0	0.9	0	0	0	0	0	0	0	0	0	0	0	0
1029+50	50	16.9	0	0	1.7	0	21	0	0	2	0	21	0	0	3	0	19
1030+00	50	26.1	0	0	2.5	0	40	0	0	4	0	61	0	0	7	0	54
1030+50	50	22.9	0	0	2.6	0	45	0	0	5	0	107	0	0	13	0	94
1031+00	50	24.3	0	0	2.7	0	44	0	0	5	0	150	0	0	18	0	132
1031+50	50	27.1	0	0	1.3	0	48	0	0	4	0	198	0	0	22	0	175
1032+00	50	18.8	0	0	0.7	0	42	0	0	2	0	240	0	0	25	0	216
1032+50	50	6.1	0	0	0.0	0	23	0	0	1	0	263	0	0	25	0	238
1032+75	25	4.2	0	0	0.2	0	5	0	0	0	0	268	0	0	25	0	243

STH 67 EARTHWORK SUMMARY - STEEP SLOPES

Station	Distance	Area (SF)					Incremental Vol (CY) (Unadjusted)					Cumulative Vol (CY)					
		Cut	EBS	Salvaged / Unusable Pavement Material	Fill	Rock Exc	Cut	EBS	Salvaged / Unusable Pavement Material	Fill	Rock Exc	Cut 1.00	EBS	Salvaged / Unusable Pavement Material	Expanded Fill 1.15	Expanded Rock 1.10	Mass Ordinate
1034+75		5.8	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0
1035+00	25	6.3	0	0	0.3	0	6	0	0	0	0	6	0	0	0	0	5
1035+50	50	9.4	0	0	2.3	0	15	0	0	2	0	20	0	0	3	0	17
1036+00	50	17.9	0	0	0.0	0	25	0	0	2	0	45	0	0	6	0	40
1036+50	50	4.0	0	0	0.0	0	20	0	0	0	0	66	0	0	6	0	60
1037+00	50	0.0	0	0	0.0	0	4	0	0	0	0	70	0	0	6	0	64
1047+00		2.1	0	0	5.2	0	0	0	0	0	0	0	0	0	0	0	0
1047+50	50	15.3	0	0	0.7	0	16	0	0	5	0	16	0	0	6	0	10
1048+00	50	40.2	0	0	0.2	0	51	0	0	1	0	67	0	0	7	0	60
1048+50	50	0.0	0	0	0.0	0	37	0	0	0	0	105	0	0	7	0	97
1049+00	50	34.6	0	0	0.0	0	32	0	0	0	0	137	0	0	7	0	129
1049+50	50	10.8	0	0	0.3	0	42	0	0	0	0	179	0	0	8	0	171
1050+00	50	3.0	0	0	0.3	0	13	0	0	1	0	191	0	0	8	0	183
1050+50	50	0.0	0	0	0.0	0	3	0	0	0	0	194	0	0	9	0	185
1054+50		0.0	0	0	4.8	0	0	0	0	0	0	0	0	0	0	0	0
1055+00	50	2.0	0	0	5.8	0	2	0	0	10	0	2	0	0	11	0	-9
1055+50	50	1.8	0	0	0.0	0	4	0	0	5	0	5	0	0	17	0	-12
1056+00	50	0.0	0	0	0.0	0	2	0	0	0	0	7	0	0	17	0	-10
1056+50	50	0.0	0	0	3.1	0	0	0	0	3	0	7	0	0	21	0	-14
1057+00	50	0.8	0	0	1.3	0	1	0	0	4	0	8	0	0	25	0	-18
1064+00		0.0	0	0	3.7	0	0	0	0	0	0	0	0	0	0	0	0
1064+50	50	0.0	0	0	6.1	0	0	0	0	9	0	0	0	0	10	0	-10
1065+00	50	0.0	0	0	8.4	0	0	0	0	13	0	0	0	0	26	0	-26
1065+50	50	0.0	0	0	9.6	0	0	0	0	17	0	0	0	0	45	0	-45
1065+75	25	0.0	0	0	11.0	0	0	0	0	10	0	0	0	0	56	0	-56
1066+00		1.4	0	0	1.4	0	0	0	0	0	0	0	0	0	0	0	0
1066+50	50	1.2	0	0	1.1	0	2	0	0	2	0	2	0	0	3	0	0
1067+00	50	2.0	0	0	1.8	0	3	0	0	3	0	5	0	0	6	0	0
1067+50	50	1.8	0	0	1.3	0	3	0	0	3	0	9	0	0	9	0	0
1068+00	50	1.4	0	0	0.0	0	3	0	0	1	0	12	0	0	11	0	1
1068+50	50	0.0	0	0	0.0	0	1	0	0	0	0	13	0	0	11	0	2
1068+75	25	4.0	0	0	15.5	0	2	0	0	7	0	15	0	0	19	0	-4

STH 67 EARTHWORK SUMMARY - STEEP SLOPES

Station	Distance	Area (SF)					Incremental Vol (CY) (Unadjusted)					Cumulative Vol (CY)					
		Cut	EBS	Salvaged / Unusable Pavement Material	Fill	Rock Exc	Cut	EBS	Salvaged / Unusable Pavement Material	Fill	Rock Exc	Cut 1.00	EBS	Salvaged / Unusable Pavement Material	Expanded Fill 1.15	Expanded Rock 1.10	Mass Ordinate
1170+00		0.0	0	0	7.8	0	0	0	0	0	0	0	0	0	0	0	0
1170+50	50	16.1	0	0	1.1	0	15	0	0	8	0	15	0	0	9	0	6
1171+00	50	32.9	0	0	1.0	0	45	0	0	2	0	60	0	0	12	0	49
1171+50	50	84.1	0	0	2.7	0	108	0	0	3	0	169	0	0	15	0	153
1184+00		0.0	0	0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
1184+50	50	8.4	0	0	1.2	0	8	0	0	1	0	8	0	0	1	0	7
1185+00	50	1.4	0	0	1.6	0	9	0	0	3	0	17	0	0	4	0	13
1188+50		0.3	0	0	0.3	0	0	0	0	0	0	0	0	0	0	0	0
1189+00	50	0.0	0	0	68.1	0	0	0	0	63	0	0	0	0	73	0	-73
1189+50	50	0.0	0	0	0.7	0	0	0	0	64	0	0	0	0	146	0	-146
1195+50		0.0	0	0	4.1	0	0	0	0	0	0	0	0	0	0	0	0
1196+00	50	0.0	0	0	11.0	0	0	0	0	14	0	0	0	0	16	0	-16
1196+50	50	0.0	0	0	10.1	0	0	0	0	20	0	0	0	0	39	0	-39
1197+00	50	0.0	0	0	0.0	0	0	0	0	9	0	0	0	0	49	0	-49
1197+50	50	0.0	0	0	0.1	0	0	0	0	0	0	0	0	0	49	0	-49
1197+95	45	2.3	0	0	19.8	0	2	0	0	17	0	2	0	0	68	0	-67
1198+00	5	3.0	0	0	21.6	0	0	0	0	4	0	2	0	0	73	0	-70
1198+10	10	0.3	0	0	1.1	0	1	0	0	4	0	3	0	0	78	0	-75
1214+00		0.1	0	0	1.8	0	0	0	0	0	0	0	0	0	0	0	0
1214+50	50	0.7	0	0	4.6	0	1	0	0	6	0	1	0	0	7	0	-6
1215+00	50	0.3	0	0	17.6	0	1	0	0	20	0	2	0	0	30	0	-29
1215+50	50	0.0	0	0	0.0	0	0	0	0	16	0	2	0	0	49	0	-47
1228+75		1.7	0	0	1.4	0	0	0	0	0	0	0	0	0	0	0	0
1229+00	25	0.2	0	0	1.1	0	1	0	0	1	0	1	0	0	1	0	0
1229+50	50	0.0	0	0	0.2	0	0	0	0	1	0	1	0	0	3	0	-2
1232+50		2.3	0	0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
1232+75	25	1.5	0	0	0.2	0	2	0	0	0	0	2	0	0	0	0	2

STH 67 EARTHWORK SUMMARY - STEEP SLOPES

Station	Distance	Area (SF)					Incremental Vol (CY) (Unadjusted)					Cumulative Vol (CY)					
		Cut	EBS	Salvaged / Unusable Pavement Material	Fill	Rock Exc	Cut	EBS	Salvaged / Unusable Pavement Material	Fill	Rock Exc	Cut 1.00	EBS	Salvaged / Unusable Pavement Material	Expanded Fill 1.15	Expanded Rock 1.10	Mass Ordinate
1237+50		0.0	0	0	36.2	0	0	0	0	0	0	0	0	0	0	0	0
1238+00	50	0.0	0	0	36.5	0	0	0	0	67	0	0	0	0	77	0	-77
1238+46	46	0.0	0	0	80.3	0	0	0	0	99	0	0	0	0	192	0	-192
1239+00	54	0.2	0	0	9.6	0	0	0	0	90	0	0	0	0	295	0	-295
1239+50	50	2.8	0	0	4.8	0	3	0	0	13	0	3	0	0	310	0	-308
1240+00	50	18.2	0	0	2.5	0	19	0	0	7	0	22	0	0	318	0	-296
1240+50	50	8.8	0	0	1.3	0	25	0	0	4	0	47	0	0	322	0	-275
1241+00	50	5.4	0	0	1.4	0	13	0	0	3	0	60	0	0	325	0	-265
1241+50	50	6.2	0	0	0.0	0	11	0	0	1	0	71	0	0	327	0	-256
1264+00		0.9	0	0	4.7	0	0	0	0	0	0	0	0	0	0	0	0
1264+50	50	14.2	0	0	12.2	0	14	0	0	16	0	14	0	0	18	0	-4
1265+00	50	0.6	0	0	8.1	0	14	0	0	19	0	28	0	0	40	0	-12
1265+50	50	0.4	0	0	1.7	0	1	0	0	9	0	29	0	0	50	0	-21
1268+00		0.0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0
1268+50	50	0.0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0
1269+00	50	0.0	0	0	33.5	0	0	0	0	31	0	0	0	0	36	0	-36
1269+50	50	0.0	0	0	47.5	0	0	0	0	75	0	0	0	0	122	0	-122
1270+00	50	0.0	0	0	46.2	0	0	0	0	87	0	0	0	0	222	0	-222
1270+50	50	0.0	0	0	0.7	0	0	0	0	43	0	0	0	0	272	0	-272

STH 67 EARTHWORK SUMMARY - BEAM GUARD

Station	Distance	Area (SF)					Incremental Vol (CY) (Unadjusted)					Cumulative Vol (CY)					
		Cut	EBS	Salvaged / Unusable Pavement Material	Fill	Rock Exc	Cut	EBS	Salvaged / Unusable Pavement Material	Fill	Rock Exc	Cut 1.00	EBS	Salvaged / Unusable Pavement Material	Expanded Fill 1.15	Expanded Rock 1.10	Mass Ordinate
1020+00		0.0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0
1020+50	50	0.0	0	0	0.3	0	0	0	0	1	0	0	0	0	1	0	-1
1021+00	50	0.0	0	0	0.3	0	0	0	0	1	0	0	0	0	1	0	-1
1021+50	50	7.7	0	0	2.3	0	7	0	0	2	0	7	0	0	4	0	3
1022+05	55	0.0	0	0	157.5	0	8	0	0	162	0	15	0	0	190	0	-175
1022+50	45	12.1	0	0	3.6	0	10	0	0	135	0	25	0	0	346	0	-321
1023+00	50	0.6	0	0	4.5	0	12	0	0	7	0	37	0	0	354	0	-318
1023+50	50	0.0	0	0	6.1	0	1	0	0	10	0	37	0	0	366	0	-328
1024+00	50	0.0	0	0	6.9	0	0	0	0	12	0	37	0	0	380	0	-342
1024+50	50	0.0	0	0	10.5	0	0	0	0	16	0	37	0	0	398	0	-361
1066+85		7.9	0	0	20.6	0	0	0	0	0	0	0	0	0	0	0	0
1066+90	5	8.8	0	0	28.9	0	2	0	0	5	0	2	0	0	6	0	-4
1067+01	11	8.2	0	0	29.6	0	3	0	0	12	0	5	0	0	19	0	-14
1067+15	14	4.8	0	0	35.0	0	3	0	0	17	0	8	0	0	39	0	-30
1067+40	25	8.8	0	0	41.9	0	6	0	0	36	0	15	0	0	79	0	-65
1071+78		0.0	0	0	38.1	0	0	0	0	0	0	0	0	0	0	0	0
1072+02	25	10.4	0	0	2.2	0	5	0	0	19	0	5	0	0	21	0	-17
1072+27	25	4.0	0	0	1.5	0	7	0	0	2	0	11	0	0	23	0	-12
1072+50	23	5.2	0	0	0.0	0	4	0	0	1	0	15	0	0	24	0	-9
1072+83	33	5.3	0	0	0.0	0	6	0	0	0	0	22	0	0	24	0	-2
1107+91		4.3	0	0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
1108+00	9	2.8	0	0	0.3	0	1	0	0	0	0	1	0	0	0	0	1
1108+26	26	0.0	0	0	110.4	0	1	0	0	53	0	3	0	0	61	0	-58
1108+42	17	3.2	0	0	47.3	0	1	0	0	49	0	3	0	0	117	0	-113
1108+50	8	1.5	0	0	53.4	0	1	0	0	14	0	4	0	0	133	0	-129
1108+86	36	0.0	0	0	25.7	0	1	0	0	53	0	5	0	0	194	0	-189
1109+00	14	0.0	0	0	7.6	0	0	0	0	9	0	5	0	0	204	0	-198
1109+25	25	0.0	0	0	6.8	0	0	0	0	7	0	5	0	0	211	0	-206
1109+29	4	0.0	0	0	3.6	0	0	0	0	1	0	5	0	0	212	0	-207
1109+50	21	0.0	0	0	13.2	0	0	0	0	6	0	5	0	0	220	0	-215
1109+53	3	0.0	0	0	16.4	0	0	0	0	2	0	5	0	0	222	0	-217
1109+75	22	0.0	0	0	51.3	0	0	0	0	27	0	5	0	0	253	0	-248
1109+78	3	0.0	0	0	45.9	0	0	0	0	6	0	5	0	0	260	0	-255
1110+00	22	0.0	0	0	34.9	0	0	0	0	32	0	5	0	0	297	0	-292
1110+03	3	0.0	0	0	36.4	0	0	0	0	4	0	5	0	0	302	0	-297

STH 67 EARTHWORK SUMMARY - BEAM GUARD

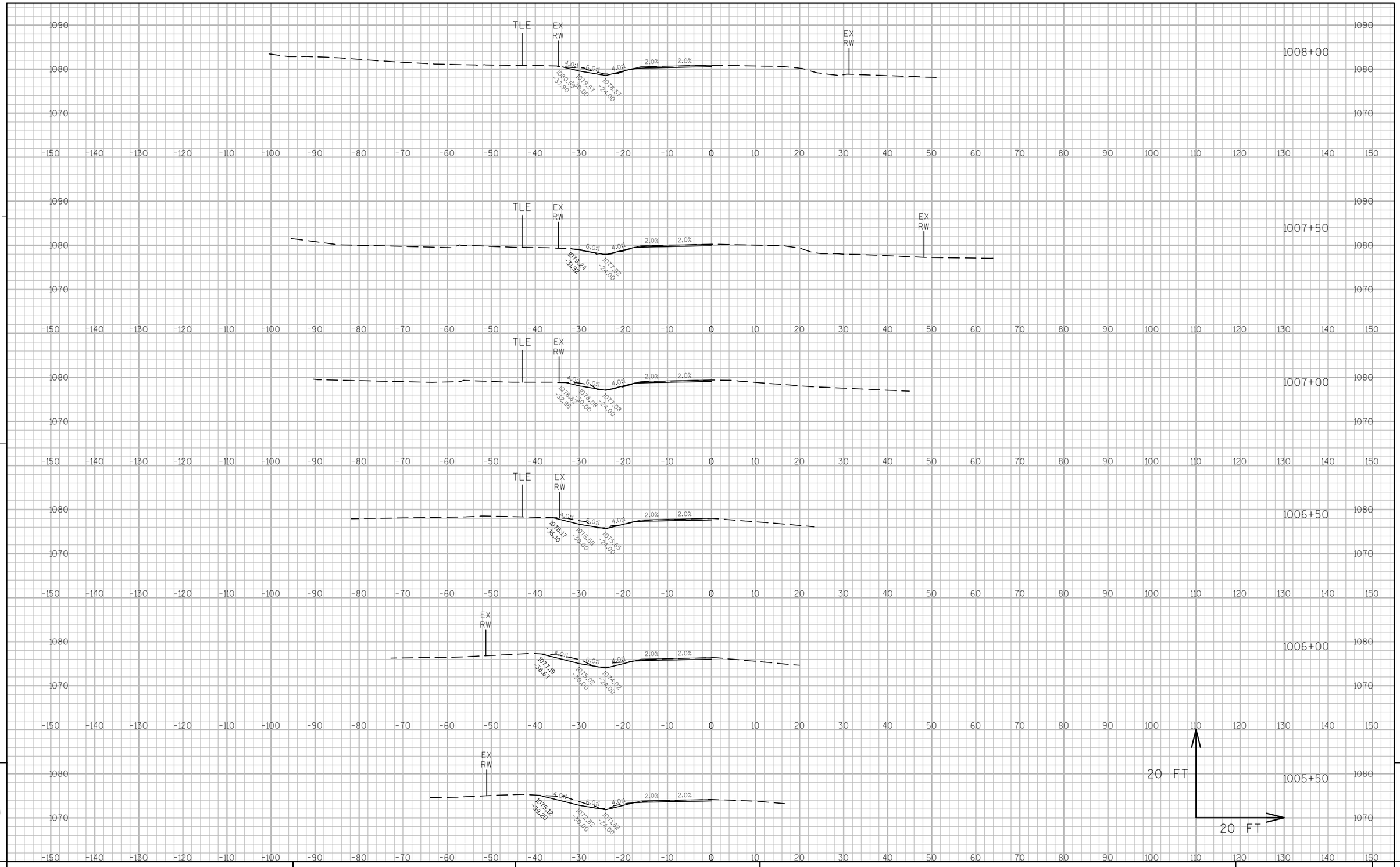
Station	Distance	Area (SF)					Incremental Vol (CY) (Unadjusted)					Cumulative Vol (CY)					
		Cut	EBS	Salvaged / Unusable Pavement Material	Fill	Rock Exc	Cut	EBS	Salvaged / Unusable Pavement Material	Fill	Rock Exc	Cut 1.00	EBS	Salvaged / Unusable Pavement Material	Expanded Fill 1.15	Expanded Rock 1.10	Mass Ordinate
1115+21		0.0	0	0	9.9	0	0	0	0	0	0	0	0	0	0	0	0
1115+46	25	0.0	0	0	8.9	0	0	0	0	9	0	0	0	0	10	0	-10
1115+71	25	0.0	0	0	11.3	0	0	0	0	9	0	0	0	0	21	0	-21
1116+10	39	17.0	0	0	7.7	0	12	0	0	14	0	12	0	0	36	0	-24
1116+41	31	84.0	0	0	8.6	0	58	0	0	9	0	70	0	0	47	0	23
1116+66	25	95.6	0	0	7.3	0	83	0	0	7	0	153	0	0	55	0	97
1116+91	25	21.3	0	0	6.3	0	54	0	0	6	0	207	0	0	63	0	144
1117+03	12	25.3	0	0	5.2	0	10	0	0	2	0	217	0	0	66	0	152
1117+15	12	12.8	0	0	4.3	0	9	0	0	2	0	226	0	0	68	0	158
1117+50	35	63.1	0	0	2.5	0	50	0	0	4	0	275	0	0	73	0	202
1118+05	55	1.8	0	0	0.4	0	66	0	0	3	0	341	0	0	77	0	264
1118+93	89	0.0	0	0	0.0	0	3	0	0	1	0	344	0	0	77	0	267
1119+00	7	0.0	0	0	0.0	0	0	0	0	0	0	344	0	0	77	0	267
1119+50	50	0.0	0	0	0.9	0	0	0	0	1	0	344	0	0	78	0	266
1119+69	19	0.0	0	0	1.5	0	0	0	0	1	0	344	0	0	79	0	265
1120+00	31	59.7	0	0	4.1	0	34	0	0	3	0	378	0	0	83	0	295
1120+09	9	54.8	0	0	4.9	0	19	0	0	2	0	398	0	0	85	0	313
1120+34	25	48.6	0	0	5.5	0	48	0	0	5	0	446	0	0	90	0	355
1120+59	25	0.0	0	0	5.6	0	22	0	0	5	0	468	0	0	96	0	372
1121+00	41	0.0	0	0	0.1	0	0	0	0	4	0	468	0	0	101	0	367
1121+51	51	0.0	0	0	3.5	0	0	0	0	3	0	468	0	0	105	0	363
1121+87	36	0.0	0	0	13.9	0	0	0	0	12	0	468	0	0	118	0	350
1122+00	13	0.0	0	0	13.5	0	0	0	0	7	0	468	0	0	126	0	342
1122+12	12	0.0	0	0	9.0	0	0	0	0	5	0	468	0	0	132	0	336
1122+37	25	0.0	0	0	0.0	0	0	0	0	4	0	468	0	0	136	0	332
1128+25		0.0	0	0	23.4	0	0	0	0	0	0	0	0	0	0	0	0
1128+50	25	0.0	0	0	29.0	0	0	0	0	24	0	0	0	0	28	0	-28
1128+75	25	0.0	0	0	35.5	0	0	0	0	30	0	0	0	0	62	0	-62
1129+00	25	0.0	0	0	25.1	0	0	0	0	28	0	0	0	0	94	0	-94
1129+50	50	0.0	0	0	0.6	0	0	0	0	24	0	0	0	0	122	0	-122
1129+83	33	0.5	0	0	0.0	0	0	0	0	0	0	0	0	0	122	0	-122
1157+00		6.0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0
1157+38	38	13.8	0	0	137.4	0	14	0	0	97	0	14	0	0	112	0	-98
1157+50	12	0.0	0	0	27.0	0	3	0	0	36	0	17	0	0	153	0	-136
1158+00	50	8.2	0	0	1.1	0	8	0	0	26	0	25	0	0	183	0	-159

STH 67 EARTHWORK SUMMARY - BEAM GUARD

Station	Distance	Area (SF)					Incremental Vol (CY) (Unadjusted)					Cumulative Vol (CY)					
		Cut	EBS	Salvaged / Unusable Pavement Material	Fill	Rock Exc	Cut	EBS	Salvaged / Unusable Pavement Material	Fill	Rock Exc	Cut 1.00	EBS	Salvaged / Unusable Pavement Material	Expanded Fill 1.15	Expanded Rock 1.10	Mass Ordinate
1172+00		145.9	0	0	1.8	0	0	0	0	0	0	0	0	0	0	0	0
1172+50	50	96.0	0	0	1.8	0	224	0	0	3	0	224	0	0	4	0	220
1173+00	50	28.7	0	0	2.9	0	115	0	0	4	0	339	0	0	9	0	331
1173+13	13	17.5	0	0	4.4	0	11	0	0	2	0	350	0	0	11	0	340
1173+63	50	12.1	0	0	21.3	0	27	0	0	24	0	378	0	0	38	0	340
1173+82	20	0.7	0	0	20.0	0	5	0	0	15	0	382	0	0	55	0	327
1173+88	5	0.0	0	0	21.4	0	0	0	0	4	0	382	0	0	60	0	322
1174+13	25	1.6	0	0	39.1	0	1	0	0	28	0	383	0	0	92	0	291
1174+32	20	0.8	0	0	6.9	0	1	0	0	17	0	384	0	0	111	0	273
1174+50	18	0.0	0	0	14.7	0	0	0	0	7	0	384	0	0	120	0	265
1174+57	7	0.0	0	0	13.0	0	0	0	0	4	0	384	0	0	124	0	260
1174+82	25	0.0	0	0	8.1	0	0	0	0	10	0	384	0	0	135	0	249
1176+16		0.0	0	0	11.3	0	0	0	0	0	0	0	0	0	0	0	0
1176+41	25	0.0	0	0	12.5	0	0	0	0	11	0	0	0	0	13	0	-13
1176+50	9	0.0	0	0	19.4	0	0	0	0	6	0	0	0	0	19	0	-19
1176+65	15	0.0	0	0	23.2	0	0	0	0	12	0	0	0	0	33	0	-33
1176+81	16	6.0	0	0	0.5	0	2	0	0	7	0	2	0	0	41	0	-39
1177+06	25	0.0	0	0	1.3	0	3	0	0	1	0	5	0	0	42	0	-38
1177+27	21	0.0	0	0	5.3	0	0	0	0	3	0	5	0	0	45	0	-40
1177+31	4	0.0	0	0	6.4	0	0	0	0	1	0	5	0	0	46	0	-41
1177+82	51	0.0	0	0	4.8	0	0	0	0	11	0	5	0	0	58	0	-54
1178+00	18	0.0	0	0	4.4	0	0	0	0	3	0	5	0	0	62	0	-57
1178+50	50	0.1	0	0	0.5	0	0	0	0	4	0	5	0	0	67	0	-62

STH 67 EARTHWORK SUMMARY - BEAM GUARD

Station	Distance	Area (SF)					Incremental Vol (CY) (Unadjusted)					Cumulative Vol (CY)					
		Cut	EBS	Salvaged / Unusable Pavement Material	Fill	Rock Exc	Cut	EBS	Salvaged / Unusable Pavement Material	Fill	Rock Exc	Cut 1.00	EBS	Salvaged / Unusable Pavement Material	Expanded Fill 1.15	Expanded Rock 1.10	Mass Ordinate
1283+50		0.9	0	0	0.6	0	0	0	0	0	0	0	0	0	0	0	0
1283+73	23	7.1	0	0	2.7	0	3	0	0	1	0	3	0	0	2	0	2
1284+00	27	3.0	0	0	9.2	0	5	0	0	6	0	8	0	0	8	0	0
1284+50	50	0.0	0	0	37.3	0	3	0	0	43	0	11	0	0	58	0	-47
1285+00	50	0.0	0	0	49.8	0	0	0	0	81	0	11	0	0	151	0	-139
1285+50	50	0.0	0	0	62.6	0	0	0	0	104	0	11	0	0	270	0	-259
1286+00	50	0.0	0	0	80.8	0	0	0	0	133	0	11	0	0	423	0	-412
1286+50	50	2.6	0	0	145.5	0	2	0	0	210	0	14	0	0	664	0	-650
1286+80	30	0.0	0	0	81.0	0	1	0	0	124	0	15	0	0	806	0	-791
1287+34	55	0.0	0	0	72.0	0	0	0	0	154	0	15	0	0	984	0	-969
1288+00	66	0.0	0	0	67.1	0	0	0	0	170	0	15	0	0	1179	0	-1164
1288+50	50	0.0	0	0	58.8	0	0	0	0	117	0	15	0	0	1314	0	-1299
1289+00	50	0.0	0	0	47.3	0	0	0	0	98	0	15	0	0	1427	0	-1412
1289+50	50	0.0	0	0	35.4	0	0	0	0	77	0	15	0	0	1515	0	-1500
1290+00	50	0.4	0	0	17.2	0	0	0	0	49	0	15	0	0	1571	0	-1555
1290+50	50	0.8	0	0	2.2	0	1	0	0	18	0	16	0	0	1591	0	-1575

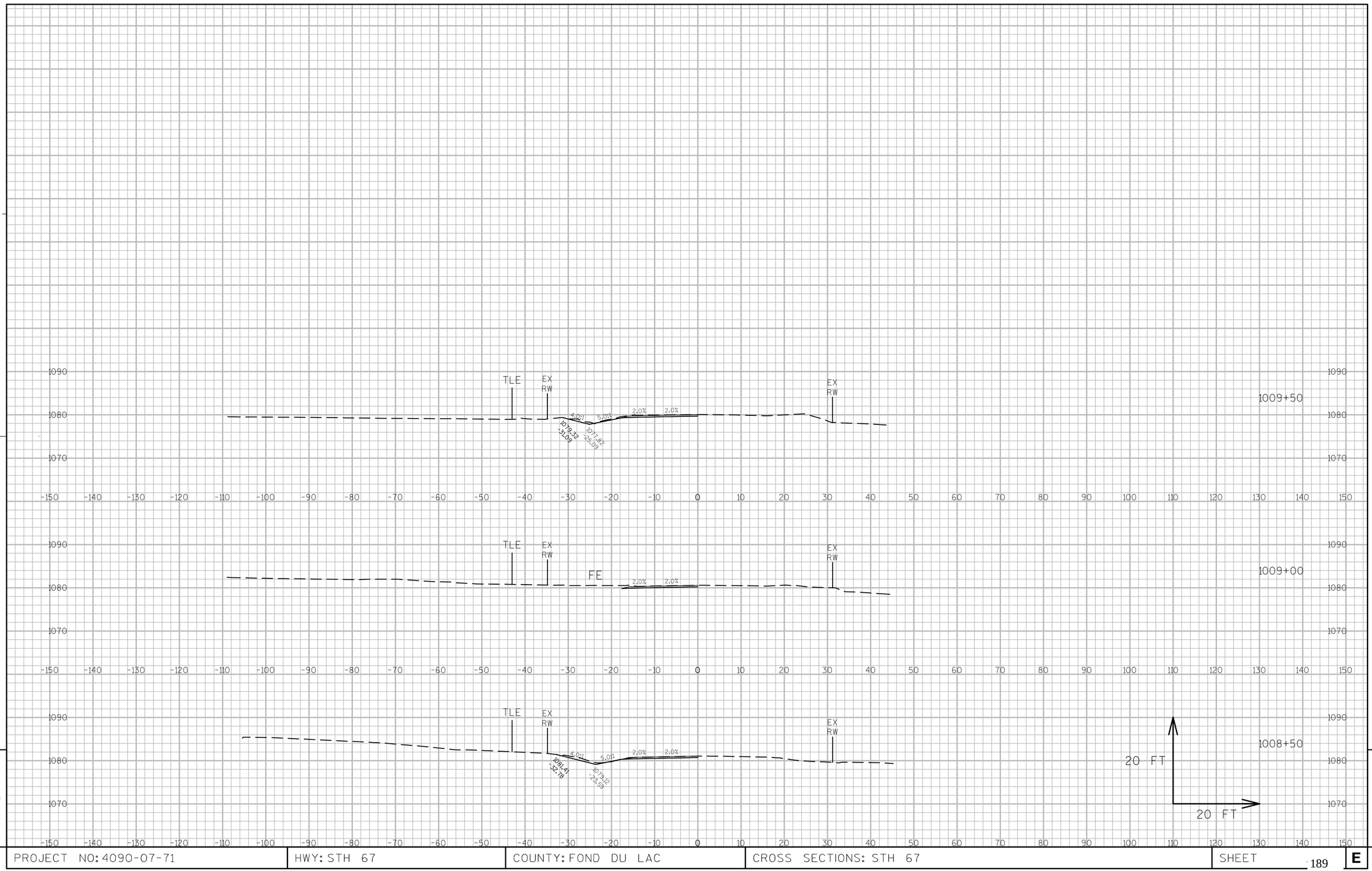


PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 188	E

FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\SHEETSPLAN\XSEC\XSECT STEEPSLOPES.DWG
LAYOUT NAME - 090201

PLOT DATE : 6/29/2018 12:52 PM PLOT BY : ANDY BLOCK PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

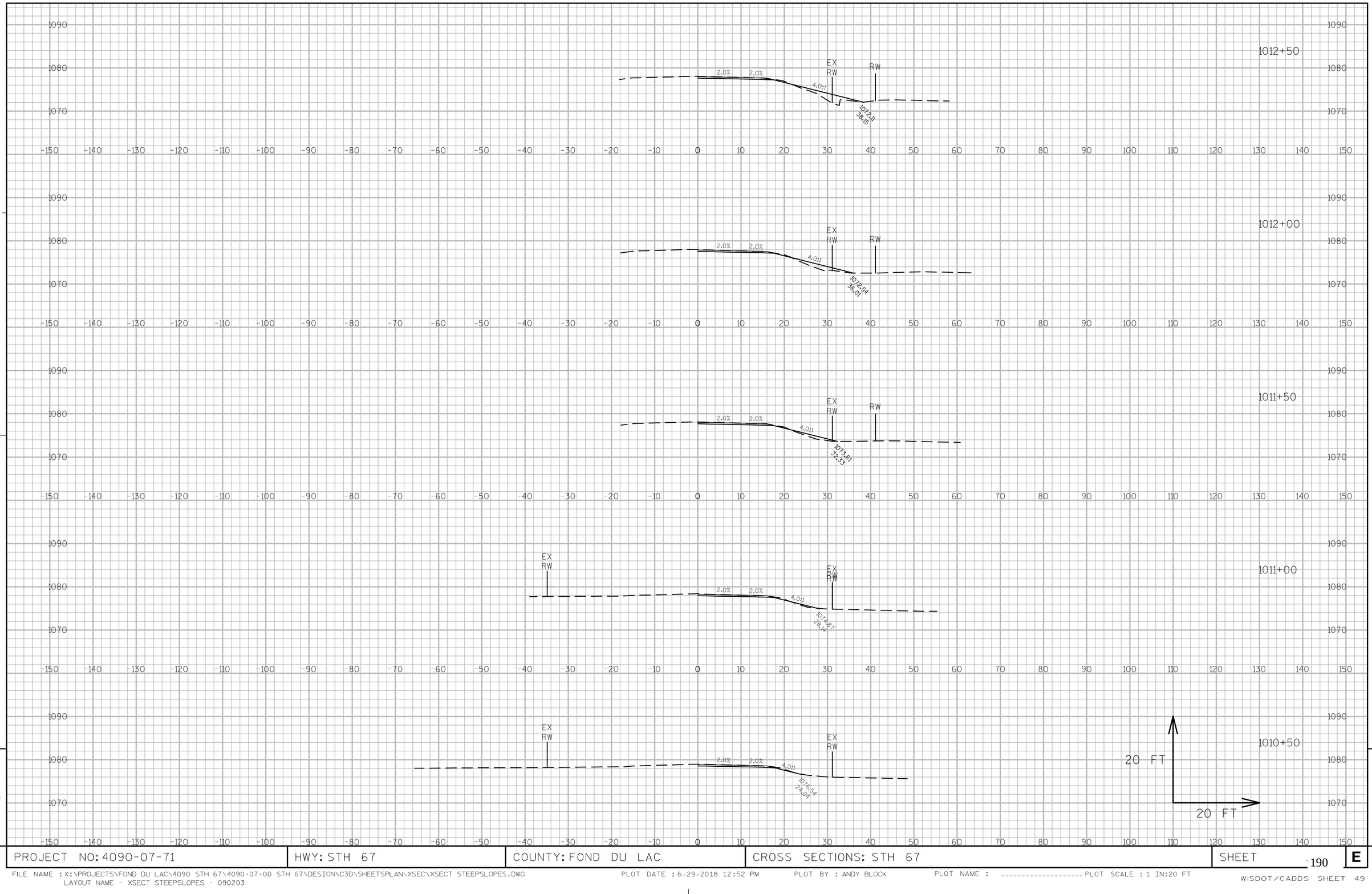
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PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 189 E

FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\SHEETSPLAN\XSEC\XSECT STEEPSLOPES.DWG
LAYOUT NAME - 090202

PLOT DATE : 6/29/2018 12:52 PM PLOT BY : ANDY BLOCK PLOT NAME : _____ PLOT SCALE : 1 IN:20 FT

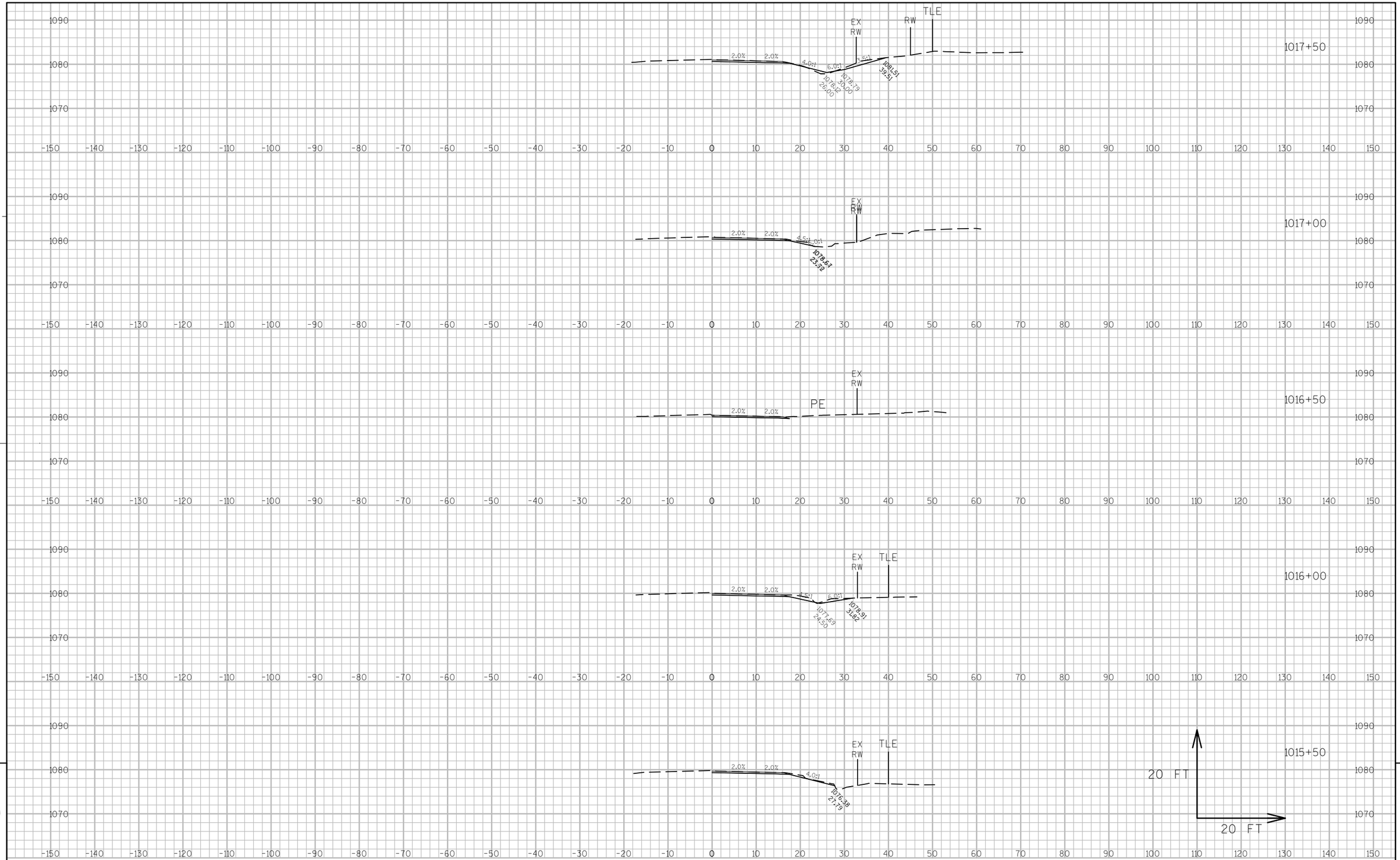
WISDOT/CADDS SHEET 49



9

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PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 190	E



9

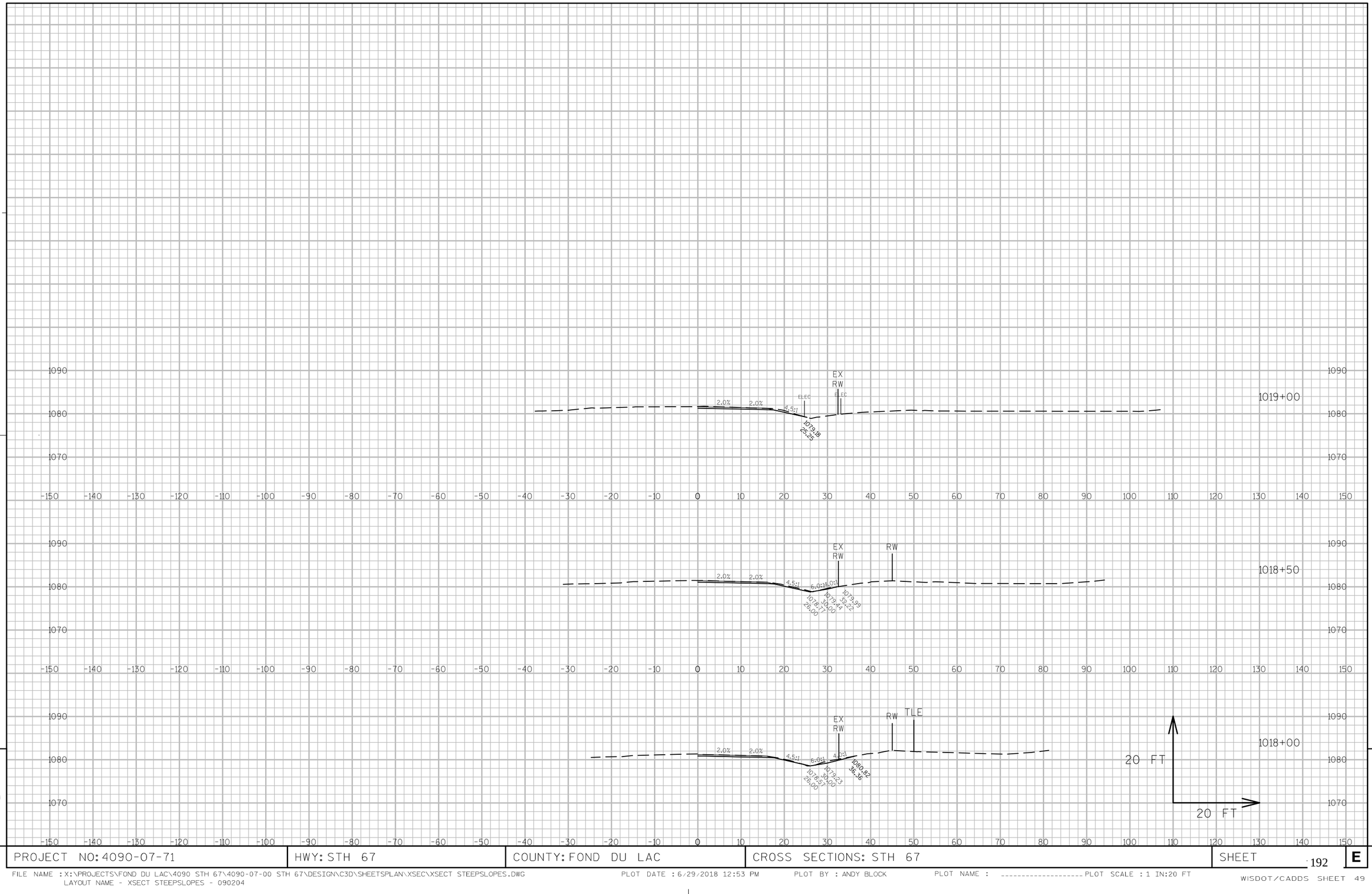
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PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 191	E

FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\SHEETSPLAN\XSEC\XSECT STEEPSLOPES.DWG
LAYOUT NAME - XSECT STEEPSLOPES - 090203

PLOT DATE : 6/29/2018 12:53 PM PLOT BY : ANDY BLOCK PLOT NAME : _____ PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

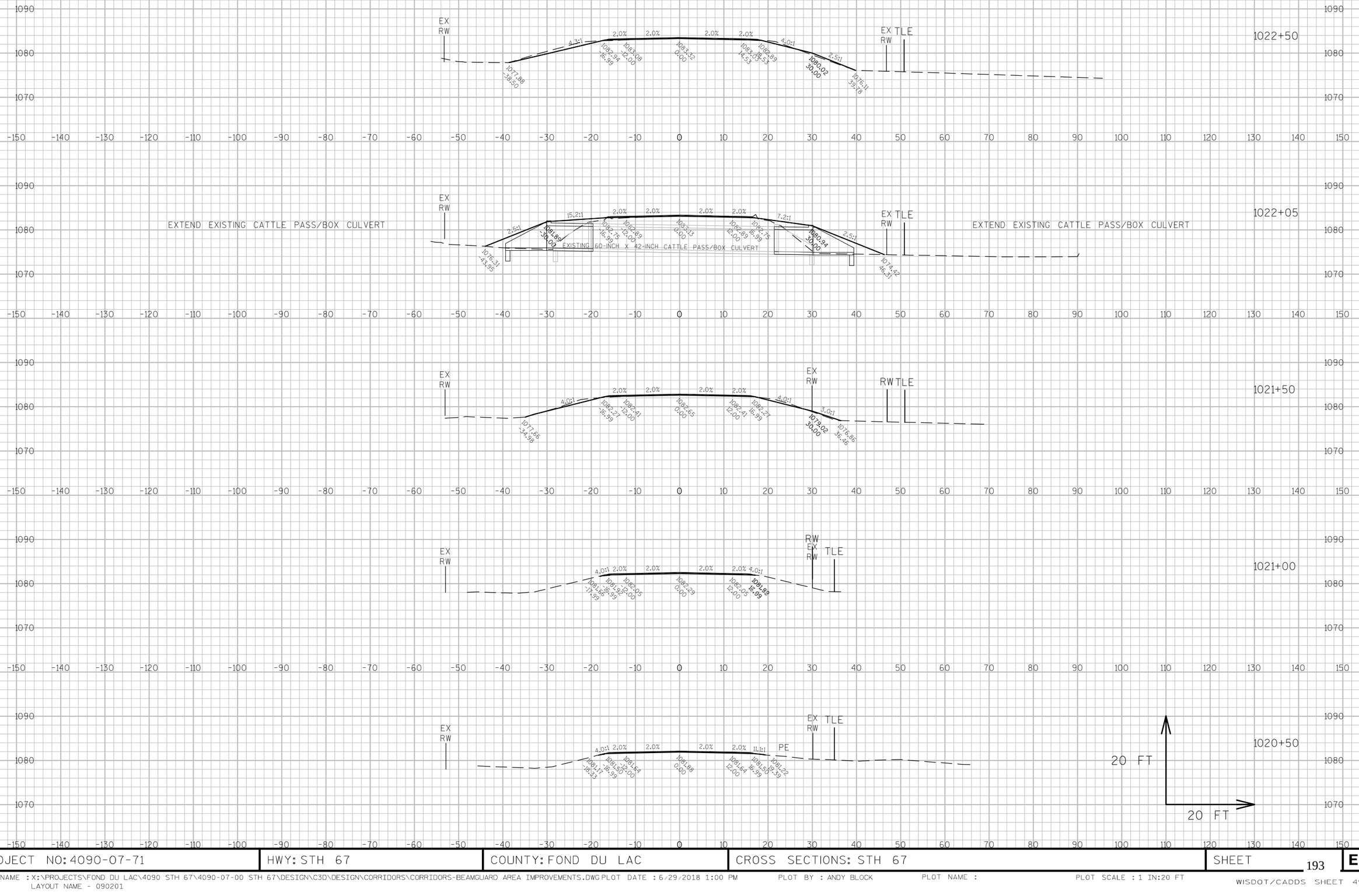


PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 192 E

FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\SHEETSPLAN\XSEC\XSECT STEEPSLOPES.DWG
LAYOUT NAME - XSECT STEEPSLOPES - 090204

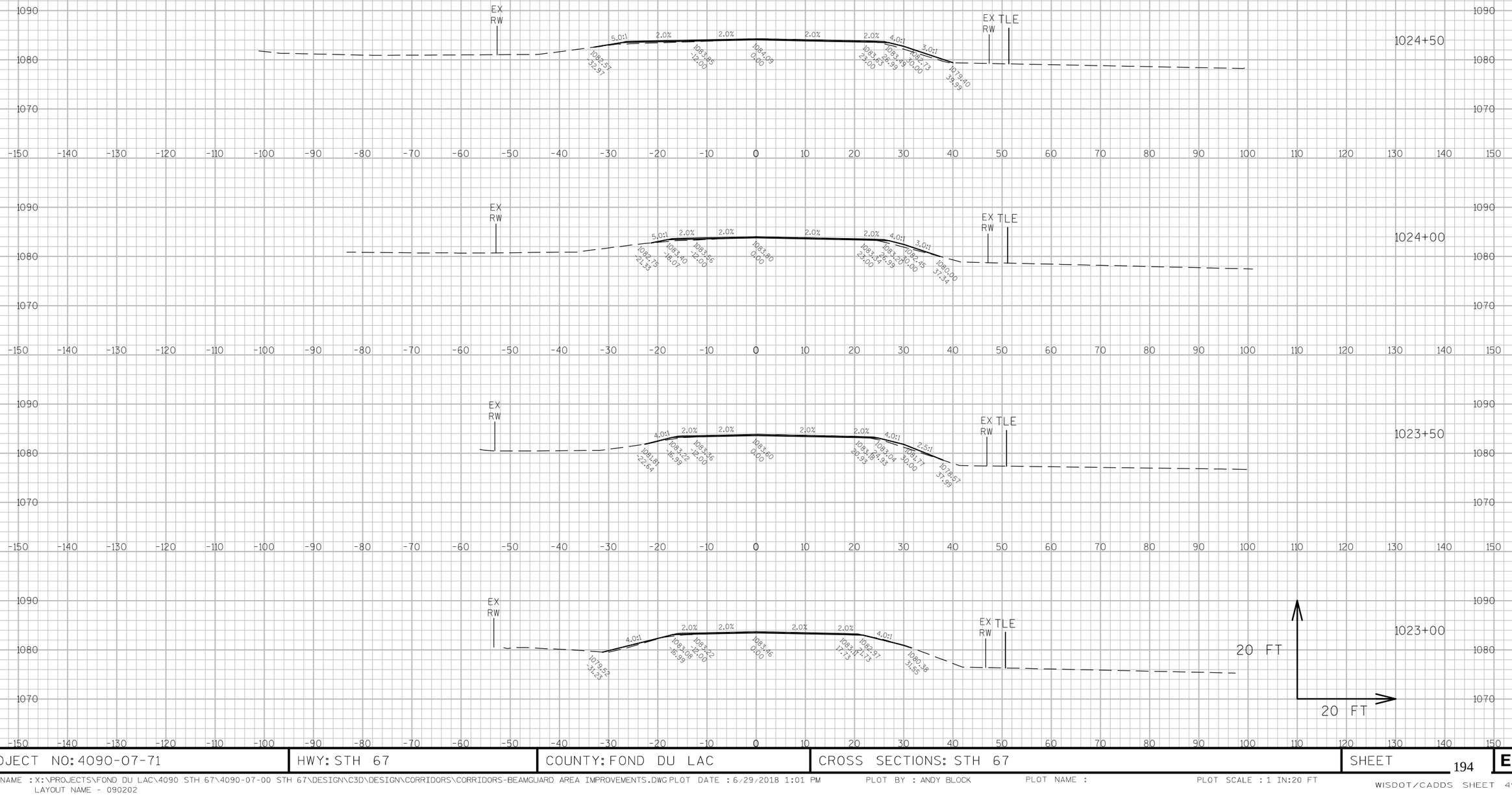
PLOT DATE : 6/29/2018 12:53 PM PLOT BY : ANDY BLOCK PLOT NAME : _____ PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 193 E

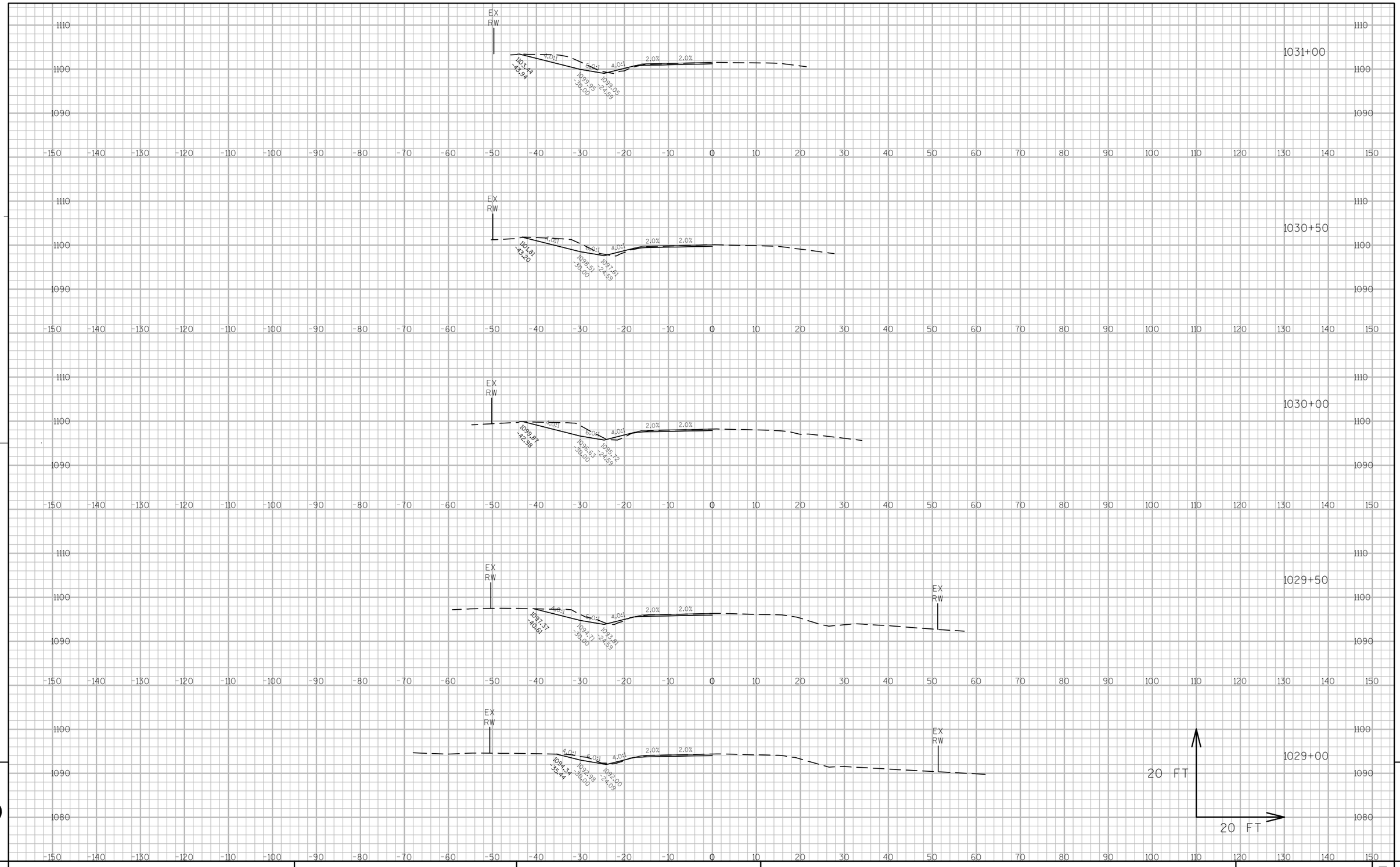
FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\DESIGN\CORRIDORS\CORRIDORS-BEAMGUARD AREA IMPROVEMENTS.DWG PLOT DATE : 6/29/2018 1:00 PM
LAYOUT NAME - 090201
PLOT BY : ANDY BLOCK
PLOT NAME :
PLOT SCALE : 1 IN:20 FT



PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 194 E

FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\DESIGN\CORRIDORS\CORRIDORS-BEAMGUARD AREA IMPROVEMENTS.DWG PLOT DATE : 6/29/2018 1:01 PM PLOT BY : ANDY BLOCK PLOT NAME : PLOT SCALE : 1 IN:20 FT
LAYOUT NAME - 090202

WISDOT/CADDS SHEET 49



9

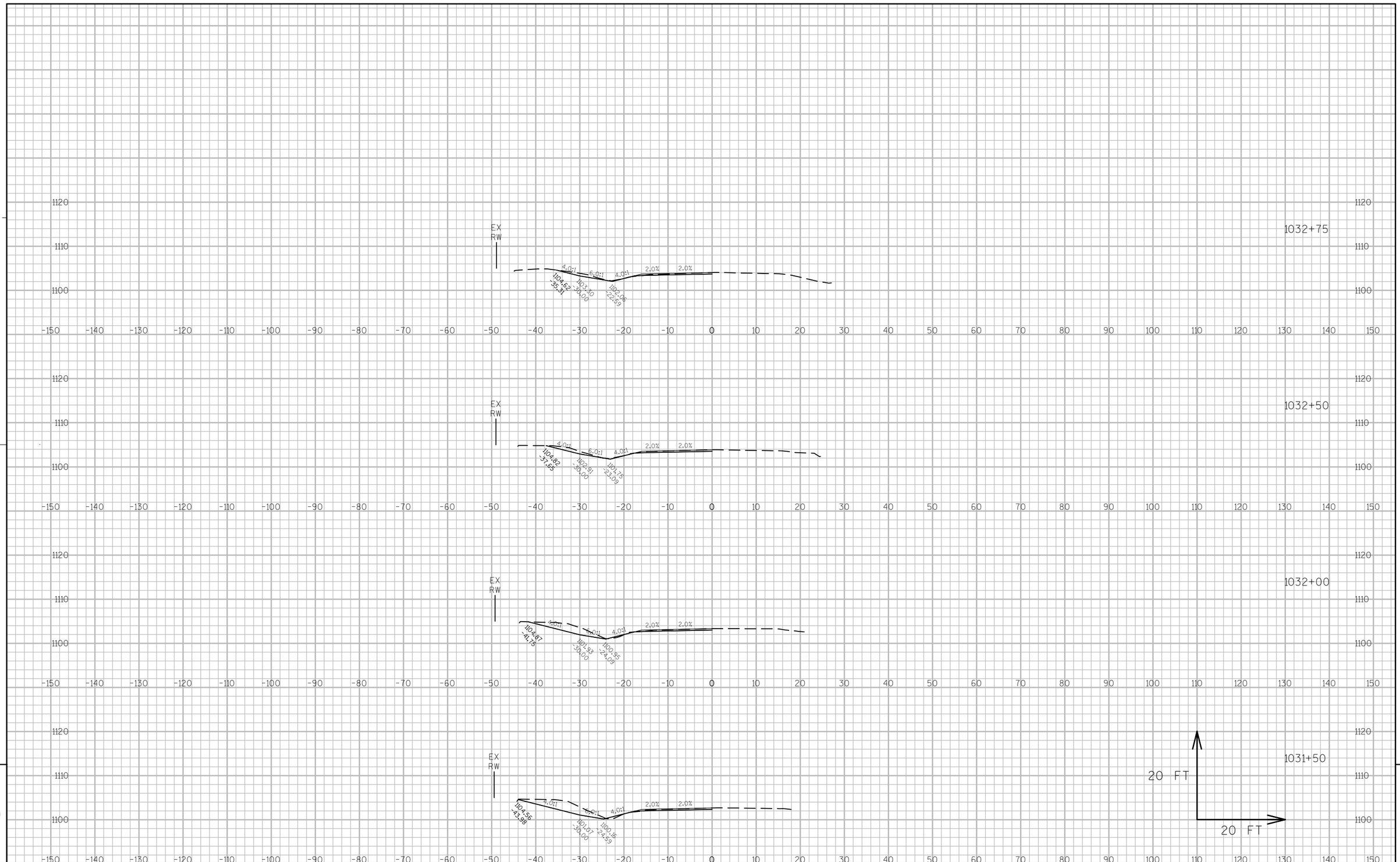
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PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 195	E

FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\SHEETSPLAN\XSEC\XSECT STEEPSLOPES.DWG
LAYOUT NAME - XSECT STEEPSLOPES - 090205

PLOT DATE : 6/29/2018 12:53 PM PLOT BY : ANDY BLOCK PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



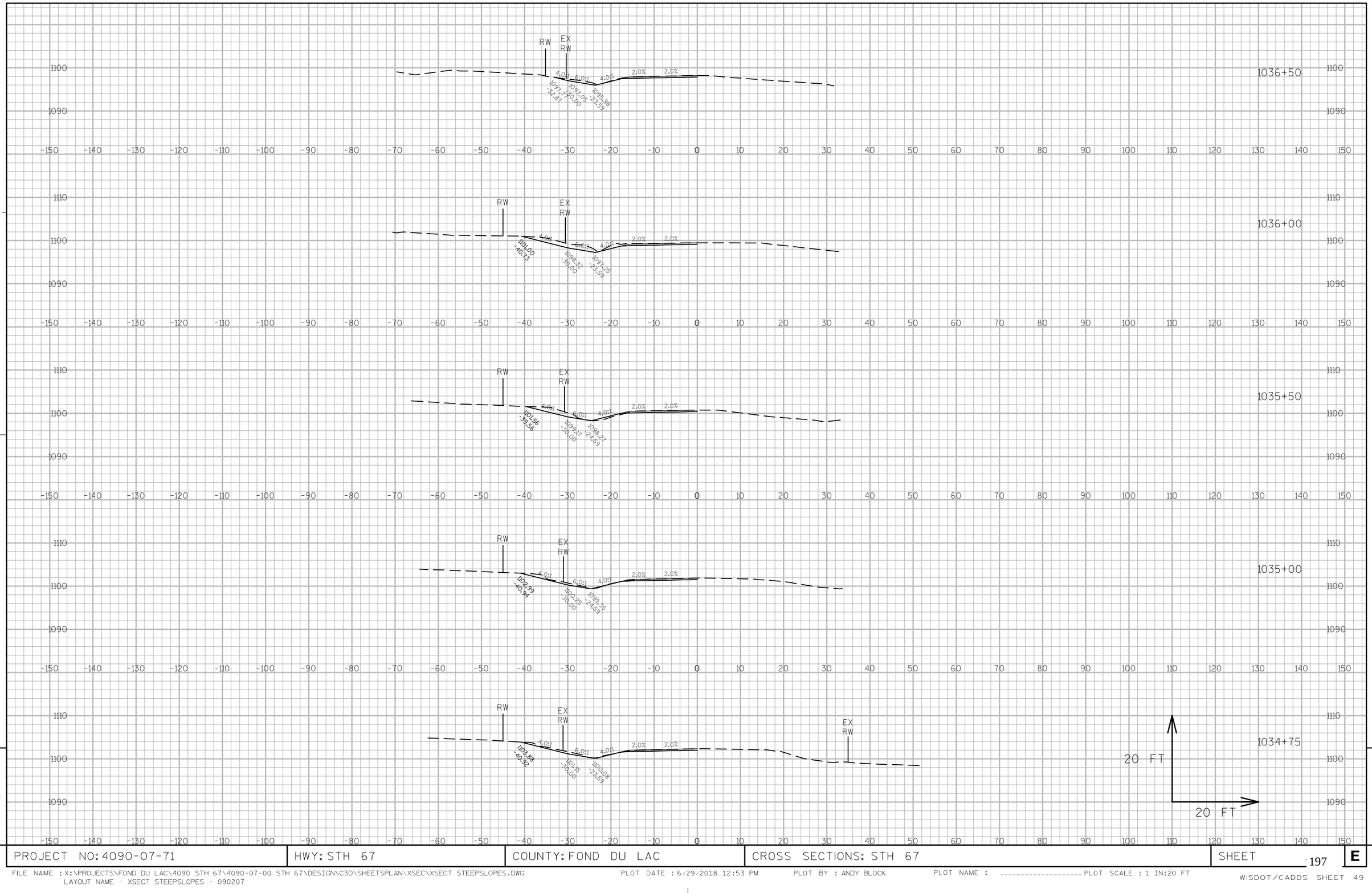
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PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 196 E

FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\SHEETSPLAN\XSEC\XSECT STEEPSLOPES.DWG
LAYOUT NAME - XSECT STEEPSLOPES - 090206

PLOT DATE : 6/29/2018 12:53 PM PLOT BY : ANDY BLOCK PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT



9

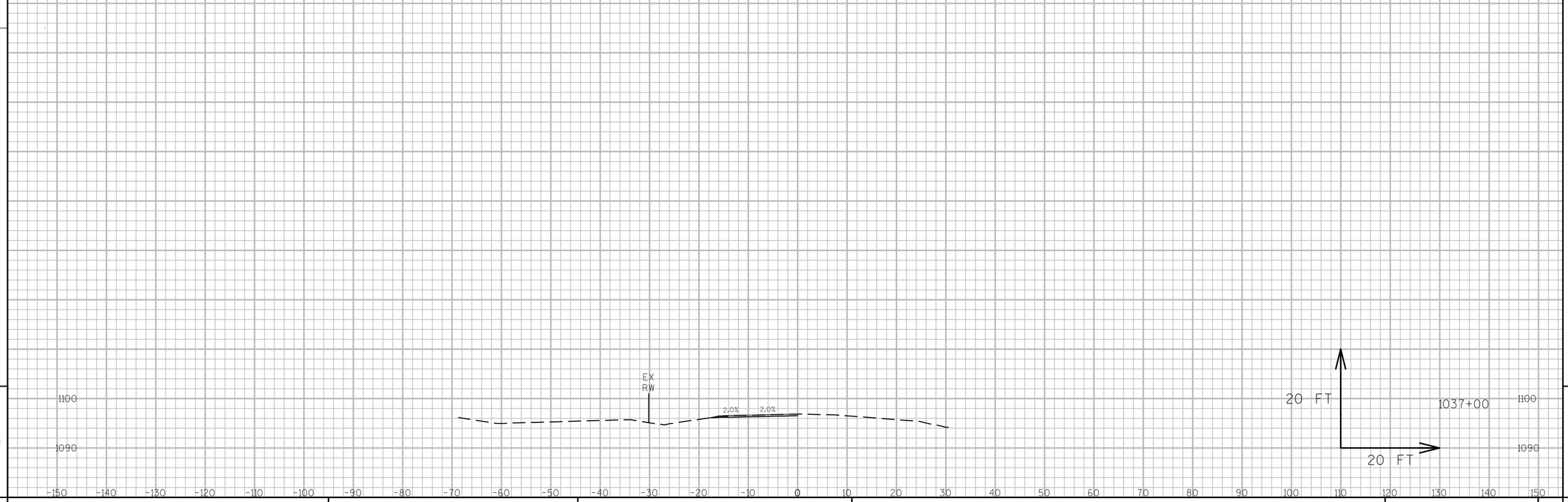
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PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 197 E

FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\SHEETSPLAN\XSEC\XSECT STEEPSLOPES.DWG
LAYOUT NAME - XSECT STEEPSLOPES - 090207

PLOT DATE : 6/29/2018 12:53 PM PLOT BY : ANDY BLOCK PLOT NAME : _____ PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

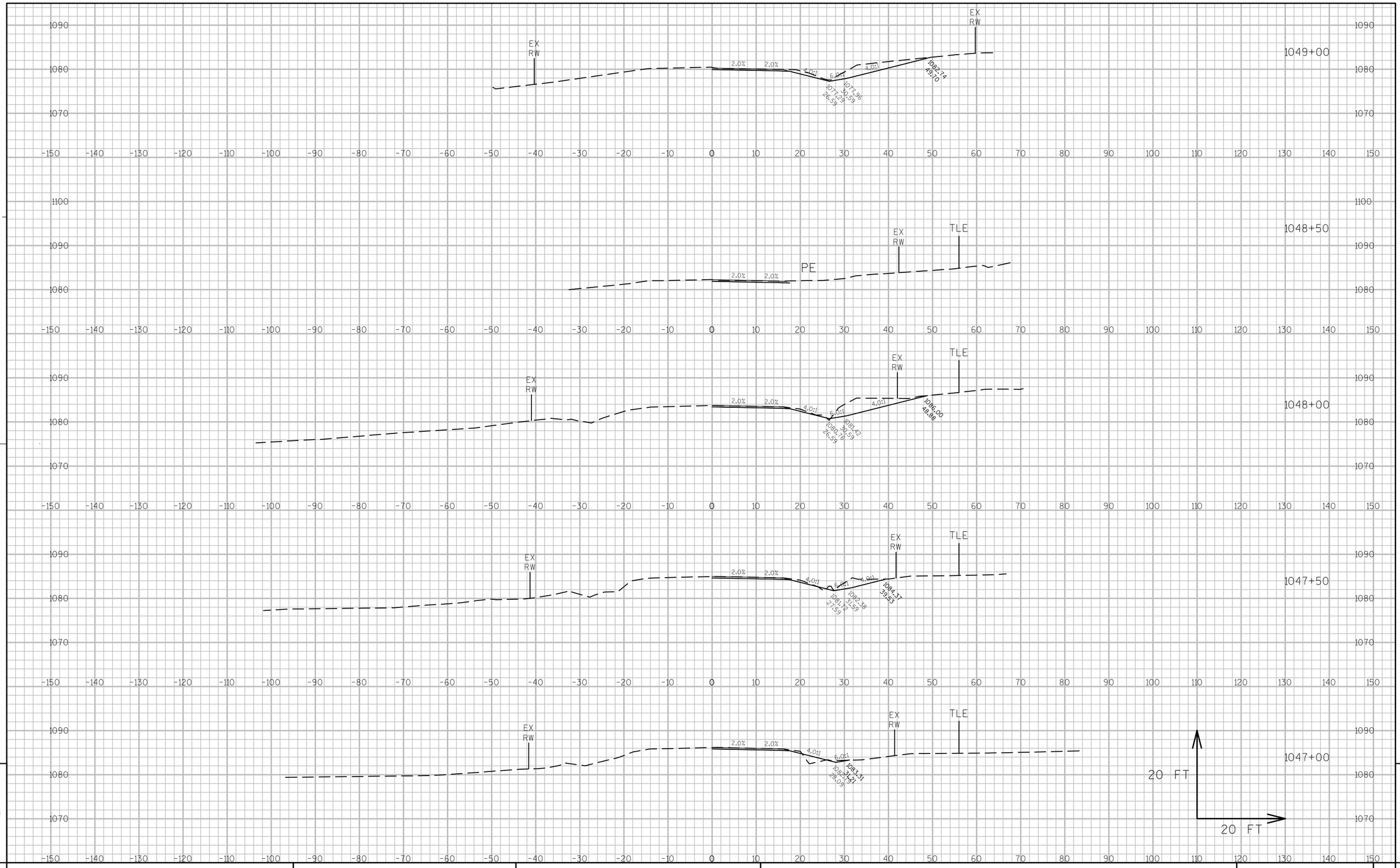
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PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 198	E

FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\SHEETSPLAN\XSEC\XSECT STEEPSLOPES.DWG
LAYOUT NAME - XSECT STEEPSLOPES - 090208

PLOT DATE : 6/29/2018 12:53 PM PLOT BY : ANDY BLOCK PLOT NAME : ---------- PLOT SCALE : Custom

WISDOT/CADDS SHEET 49



9

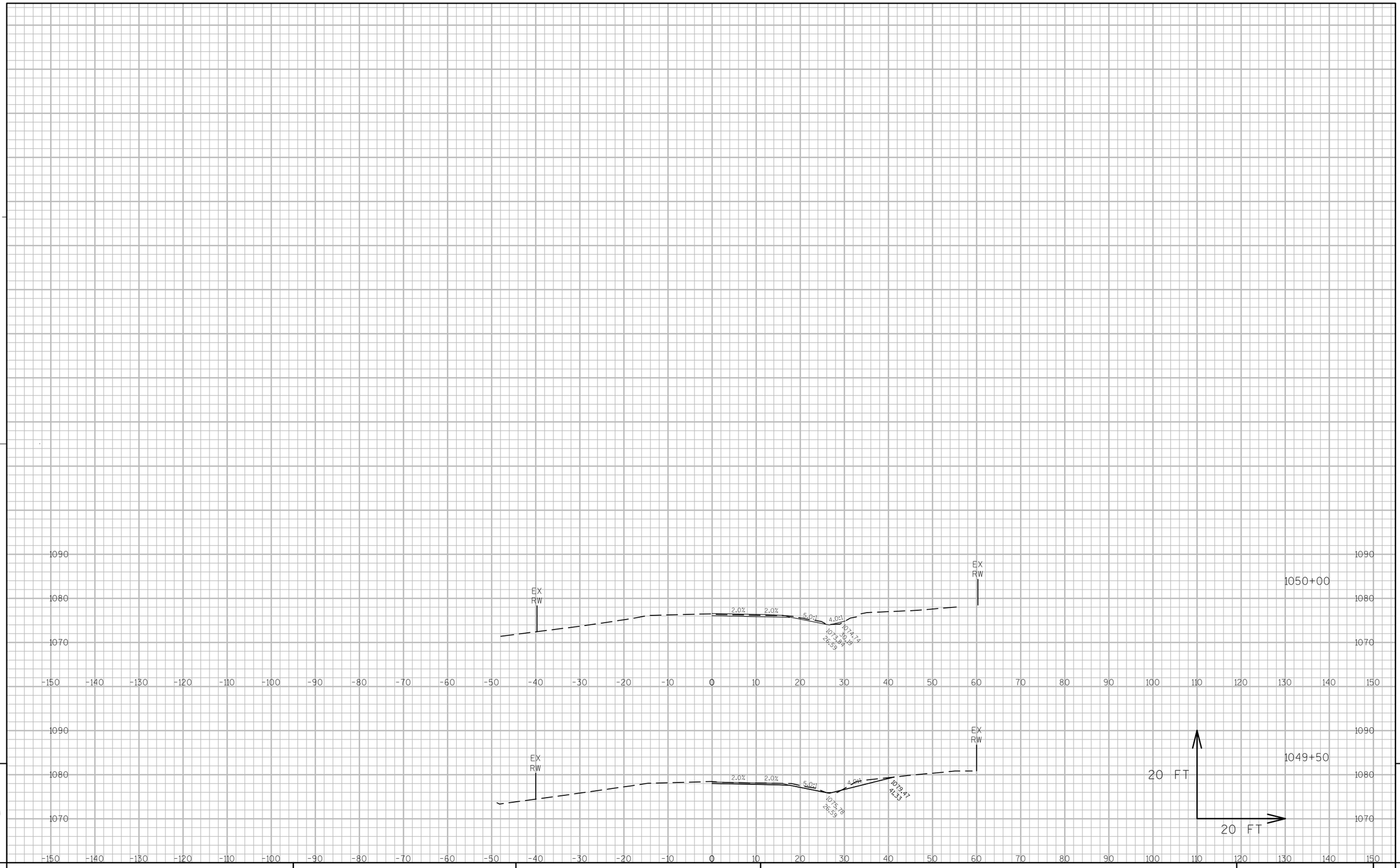
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PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 199	E

FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\SHEETSPLAN\XSEC\XSECT STEEPSLOPES.DWG
LAYOUT NAME - XSECT STEEPSLOPES - 090210

PLOT DATE : 6/29/2018 12:53 PM PLOT BY : ANDY BLOCK PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT

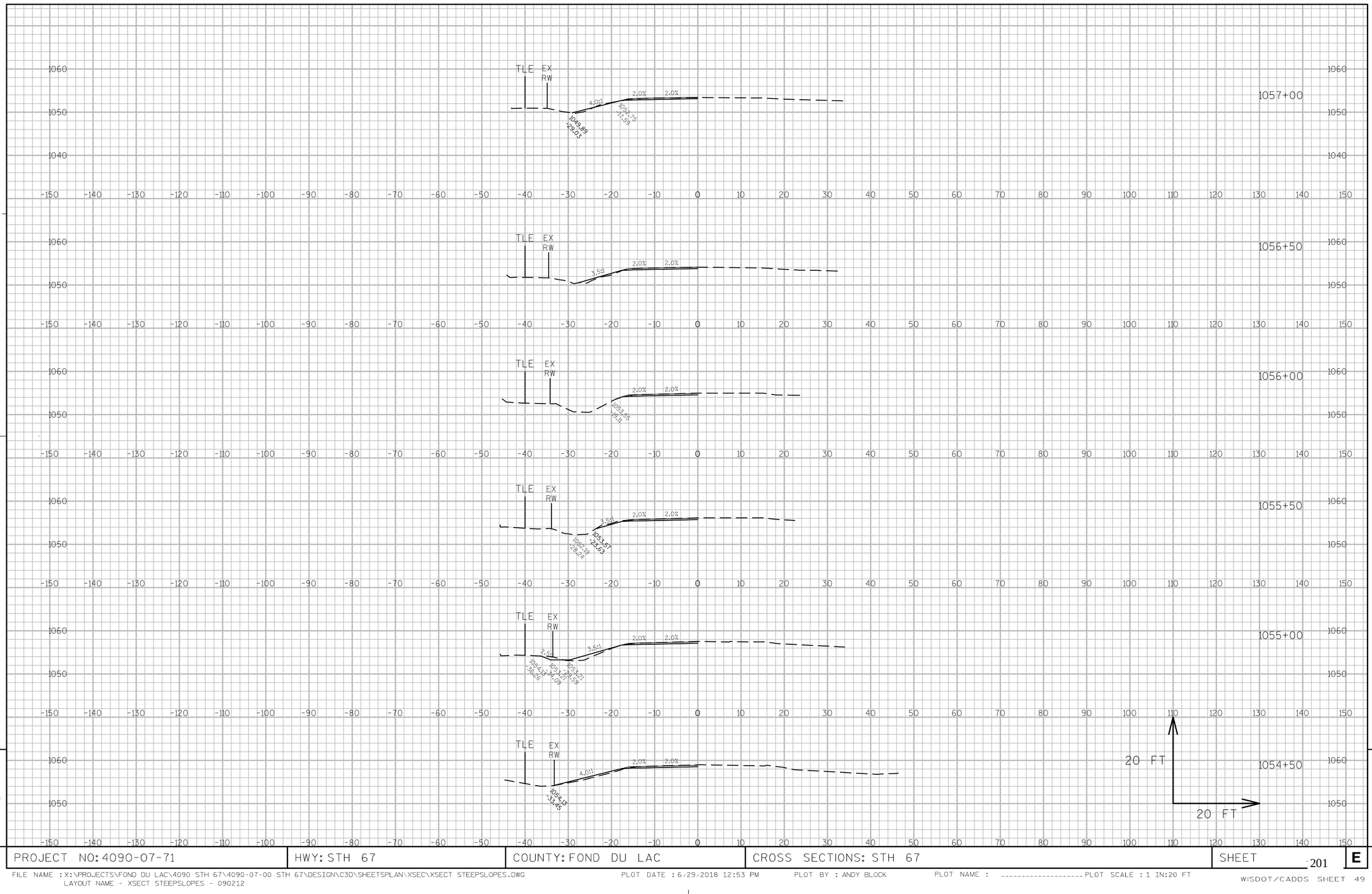
WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 200	E

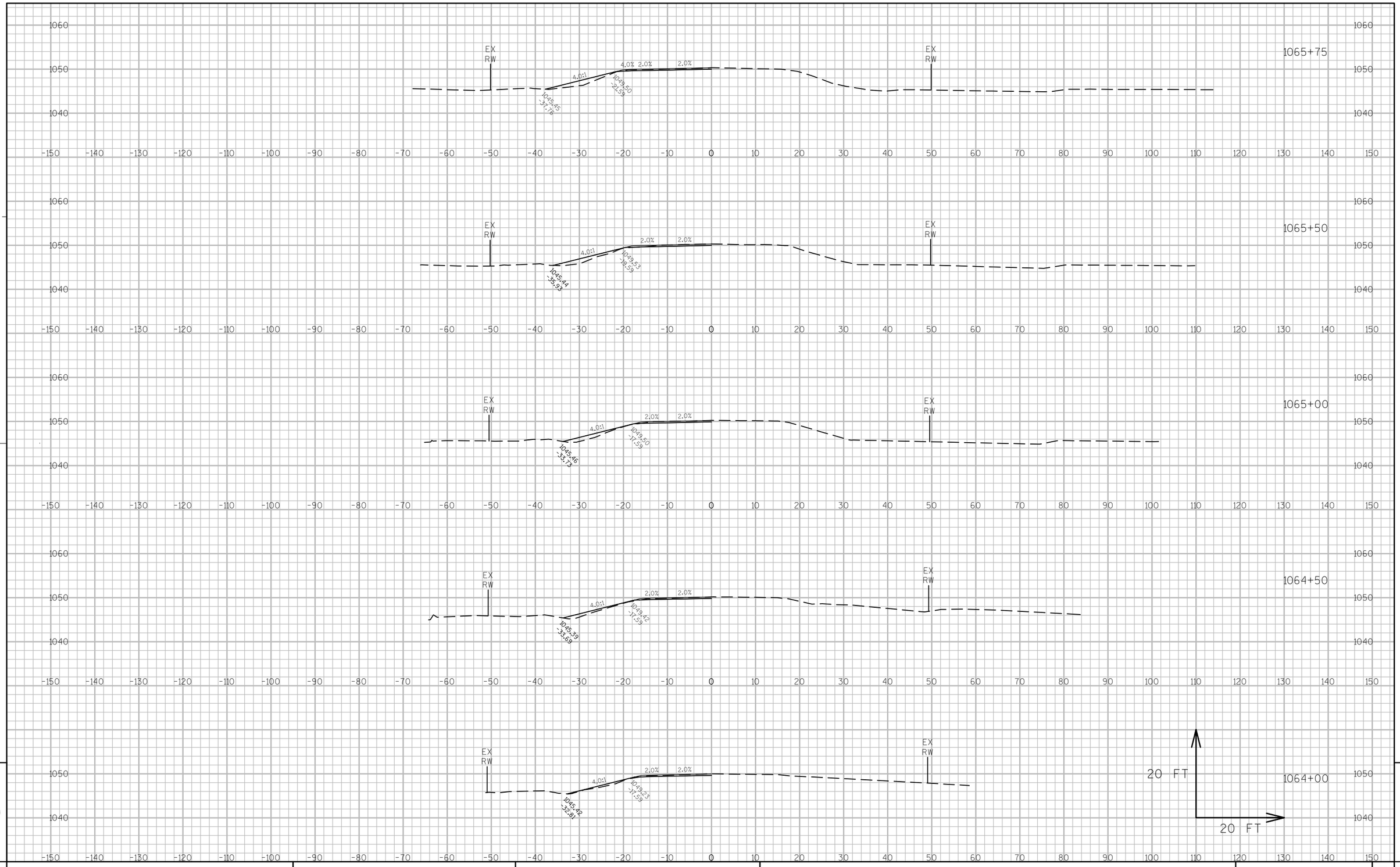


PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 201	E

FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\SHEETSPLAN\XSEC\XSECT STEEPSLOPES.DWG
LAYOUT NAME - XSECT STEEPSLOPES - 090212

PLOT DATE : 6/29/2018 12:53 PM PLOT BY : ANDY BLOCK PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT

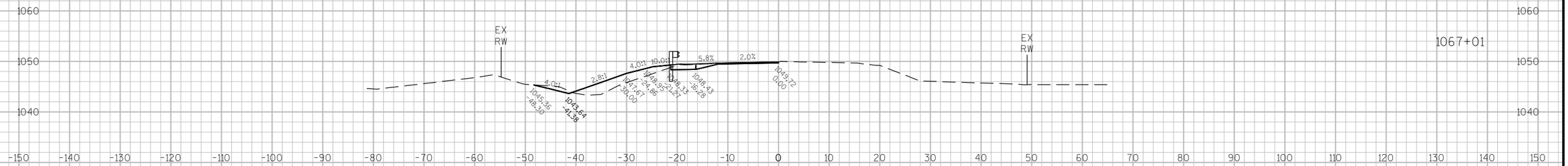
WISDOT/CADDS SHEET 49

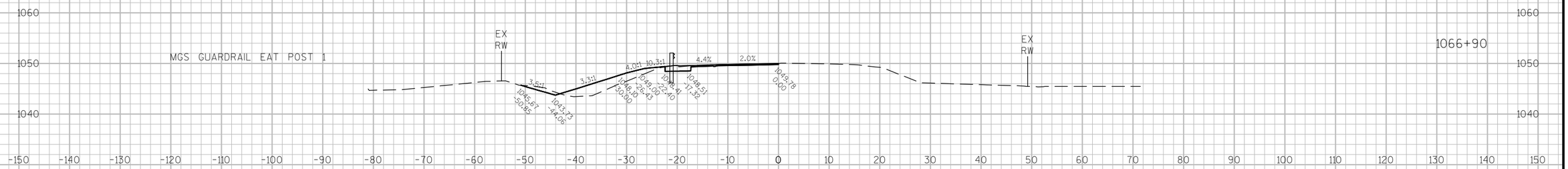


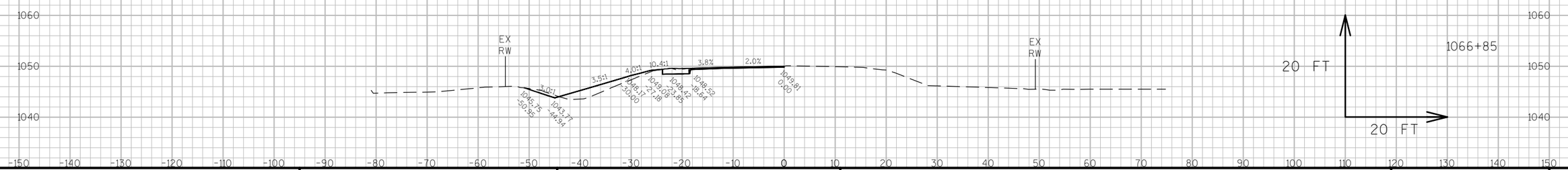
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PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 202	E





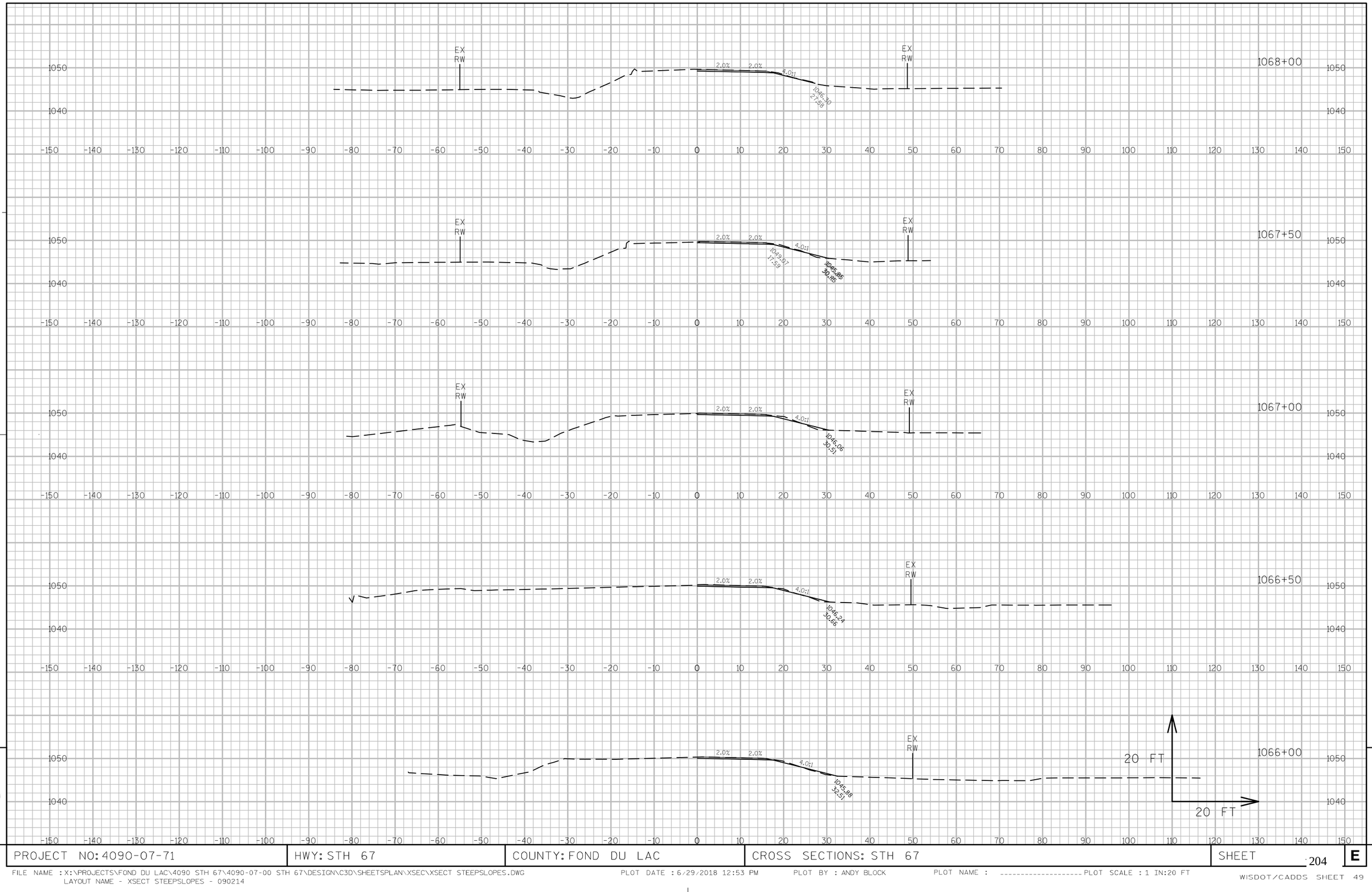


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9

PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 203 E

FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\DESIGN\CORRIDORS\CORRIDORS-BEAMGUARD AREA IMPROVEMENTS.DWG PLOT DATE : 6/29/2018 1:01 PM
LAYOUT NAME - 090203
PLOT BY : ANDY BLOCK
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 204	E

FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\SHEETSPLAN\XSEC\XSECT STEEPSLOPES.DWG
LAYOUT NAME - XSECT STEEPSLOPES - 090214

PLOT DATE : 6/29/2018 12:53 PM PLOT BY : ANDY BLOCK PLOT NAME : _____ PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

EX RW

2.0% 2.0% 4.0:1 3.0:1 4.0:1

36" RCCP

1043.71 41.41

1043.20 36.41

EXTEND EXISTING CULVERT PIPE

1068+75

1050
1040

-150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

EX RW EX RW

2.0% 2.0% 6.0:1

1068+50

20 FT

20 FT

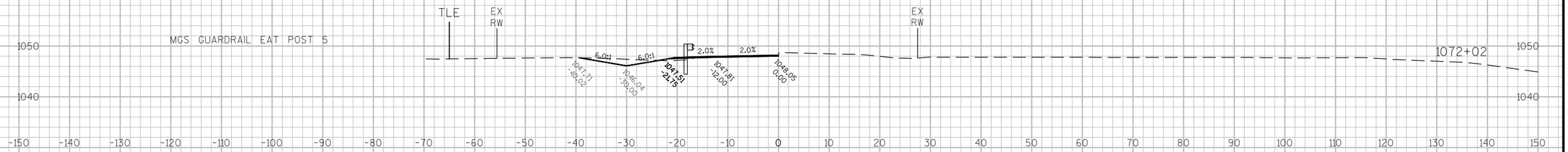
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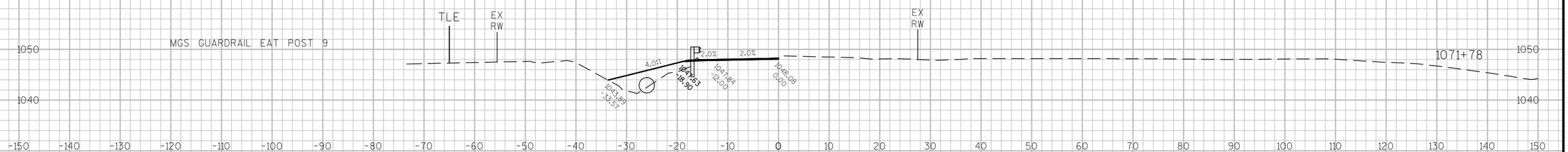
PROJECT NO: 4090-07-71 | HWY: STH 67 | COUNTY: FOND DU LAC | CROSS SECTIONS: STH 67 | SHEET 205 | E

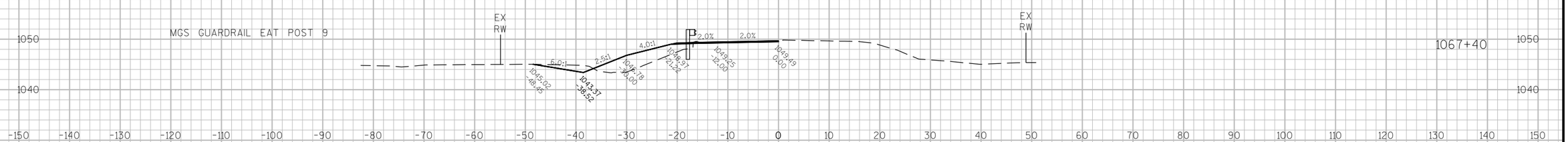
FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\SHEETSPLAN\XSEC\XSECT STEEPSLOPES.DWG
LAYOUT NAME - XSECT STEEPSLOPES - 090215

PLOT DATE : 6/29/2018 12:53 PM PLOT BY : ANDY BLOCK PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49







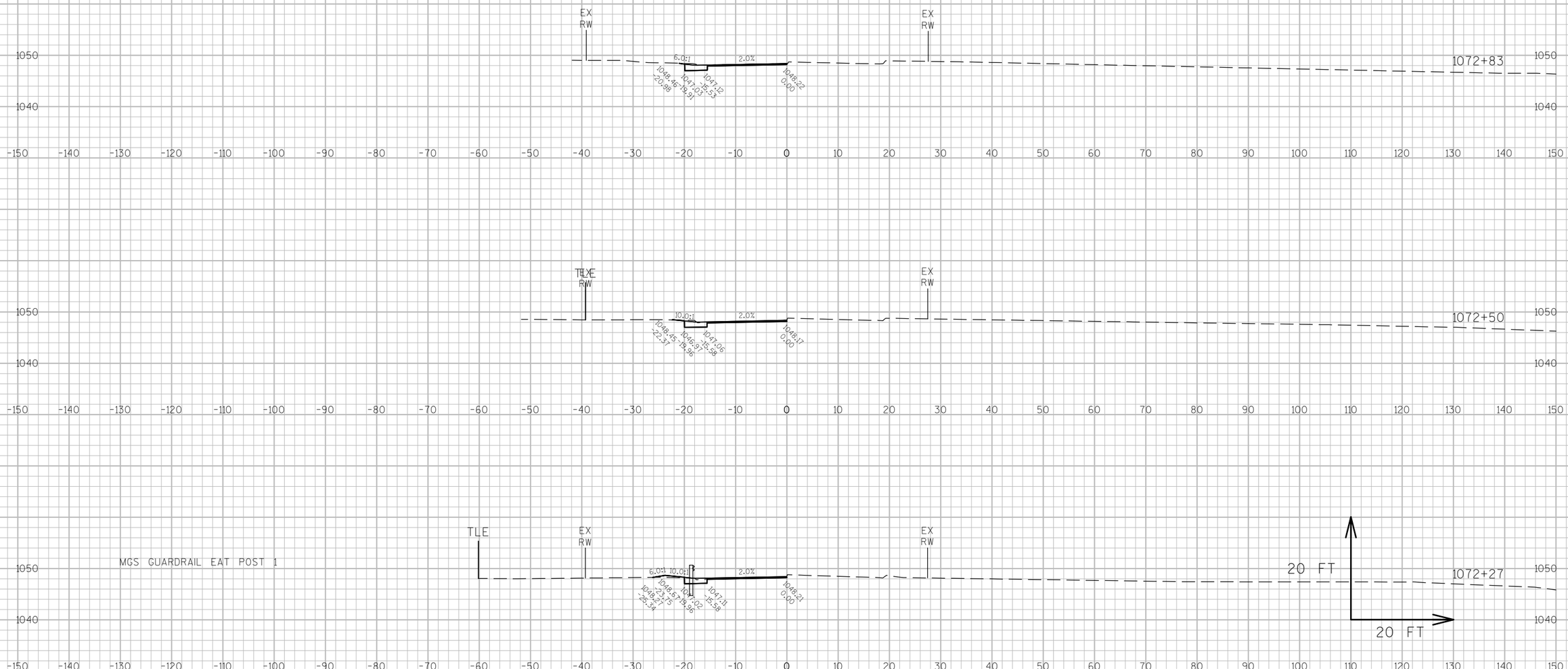


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PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 206 E

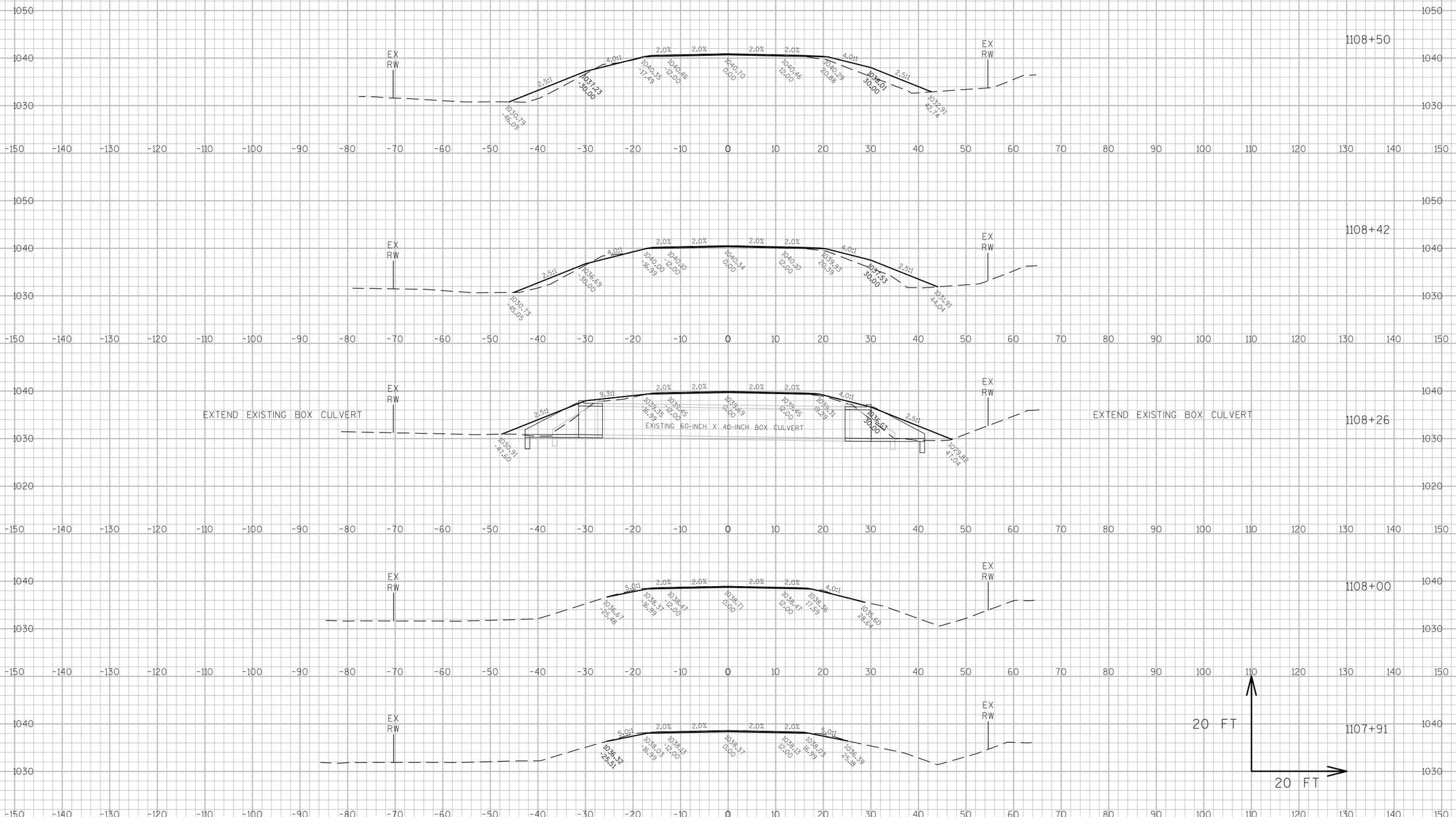
FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\DESIGN\CORRIDORS\CORRIDORS-BEAMGUARD AREA IMPROVEMENTS.DWG PLOT DATE : 6/29/2018 1:01 PM
LAYOUT NAME - 090204
PLOT BY : ANDY BLOCK
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



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9

PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 207	E



9

9

PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 208	E

FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\DESIGN\CORRIDORS\CORRIDORS-BEAMGUARD AREA IMPROVEMENTS.DWG PLOT DATE : 6/29/2018 1:01 PM
LAYOUT NAME - 090206
PLOT BY : ANDY BLOCK
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49

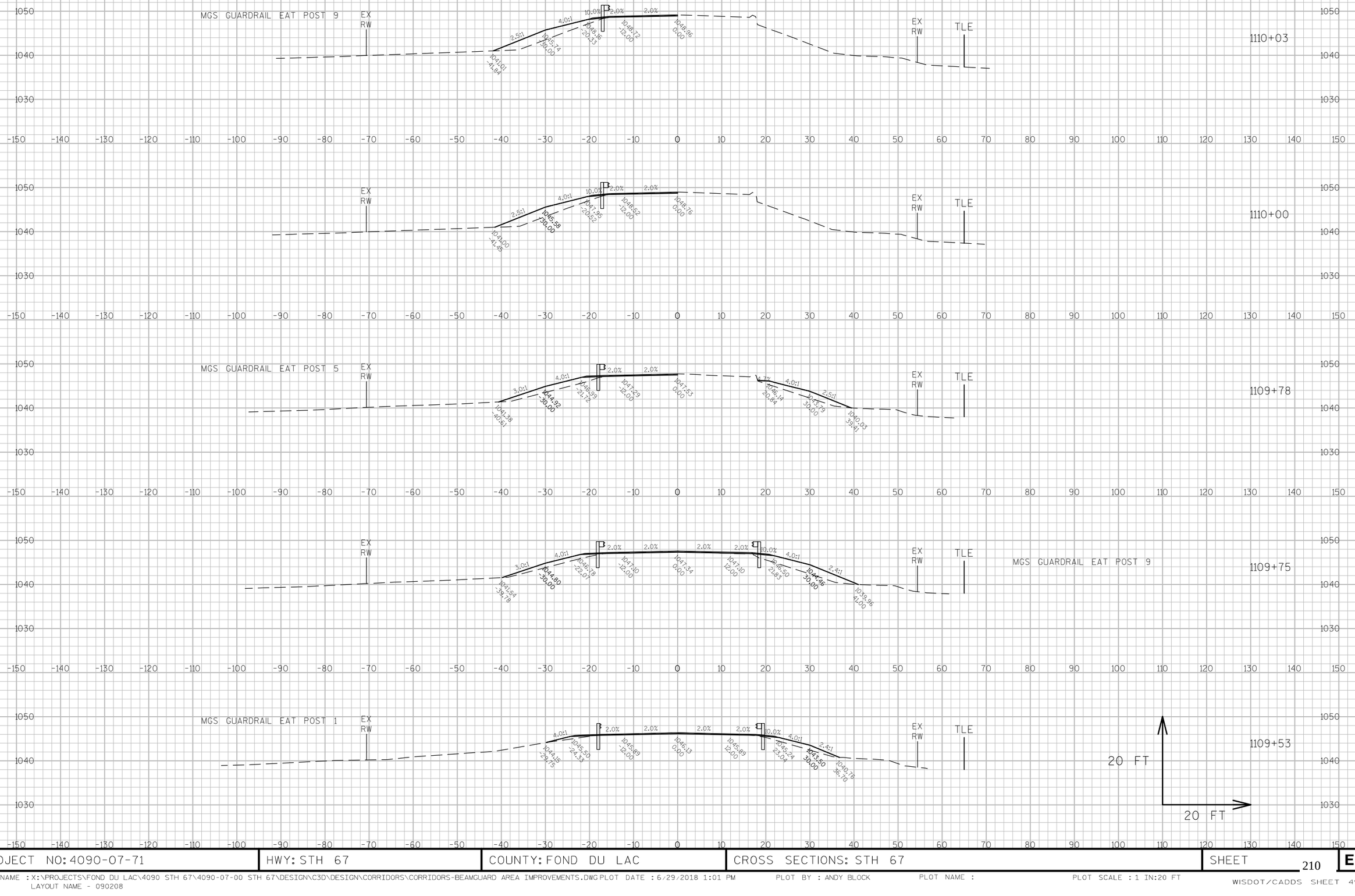


PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 209 E

FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\DESIGN\CORRIDORS\CORRIDORS-BEAMGUARD AREA IMPROVEMENTS.DWG PLOT DATE : 6/29/2018 1:01 PM
LAYOUT NAME - 090207

PLOT BY : ANDY BLOCK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

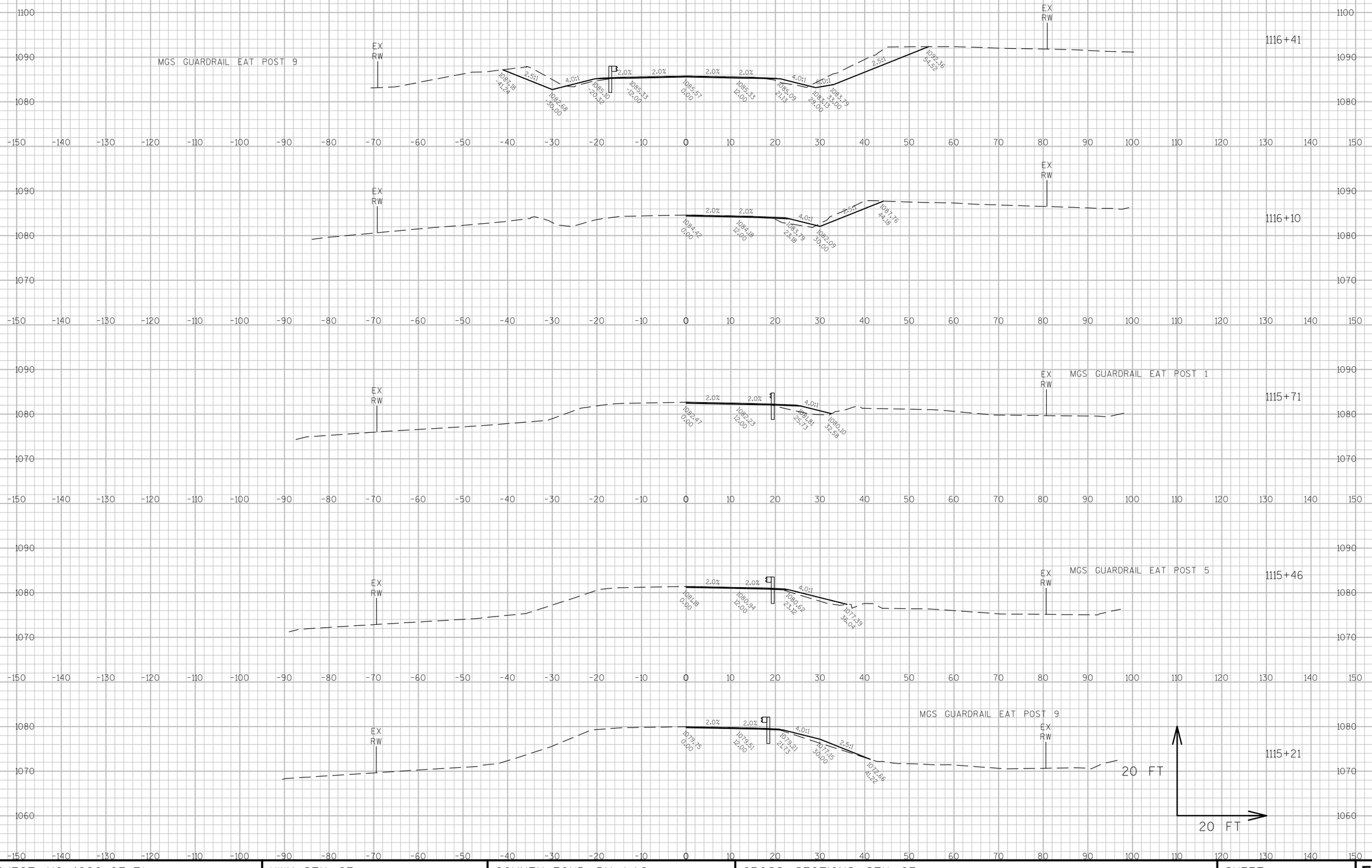


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PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 210	E

FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\DESIGN\CORRIDORS\CORRIDORS-BEAMGUARD AREA IMPROVEMENTS.DWG PLOT DATE : 6/29/2018 1:01 PM
LAYOUT NAME - 090208
PLOT BY : ANDY BLOCK
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49

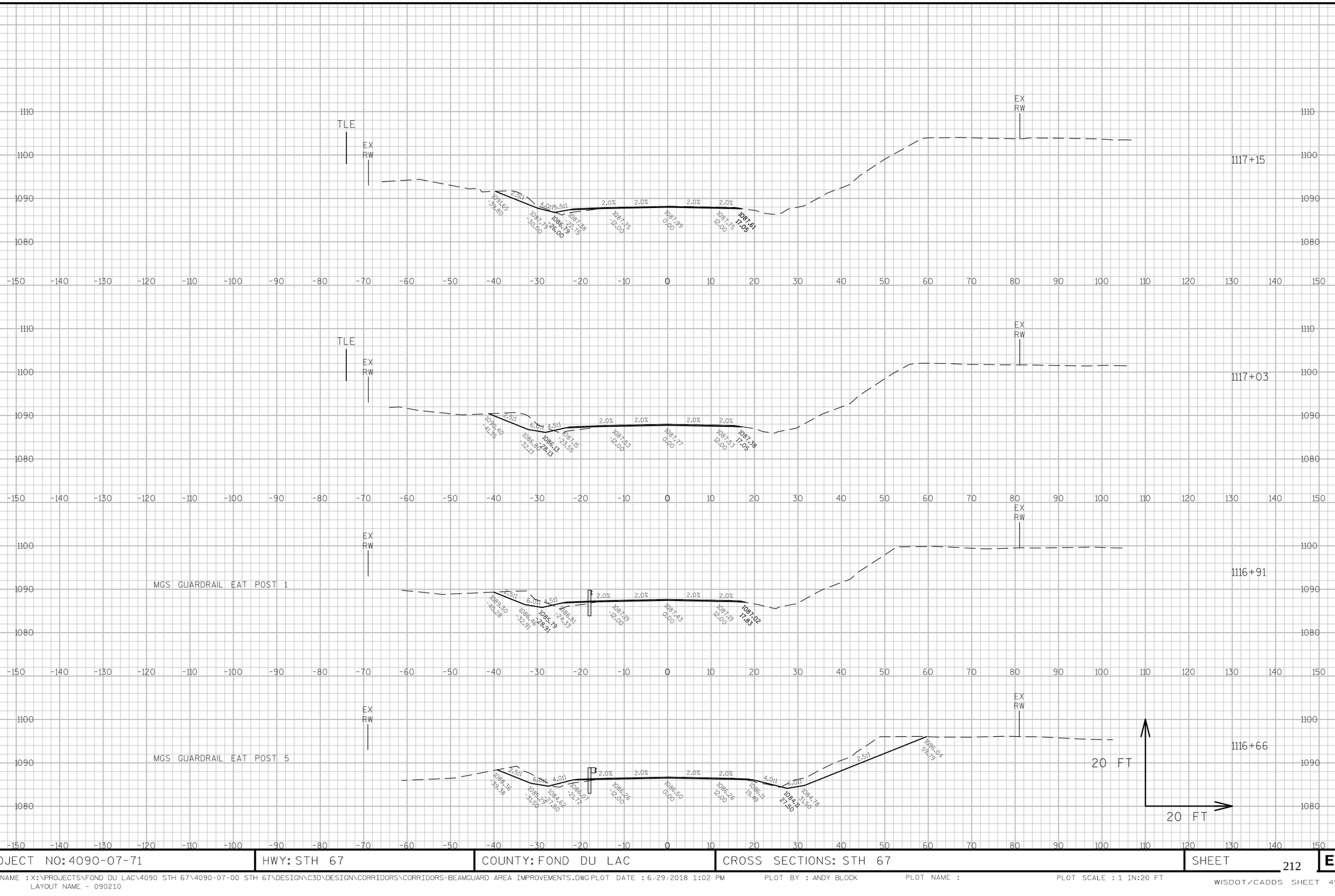


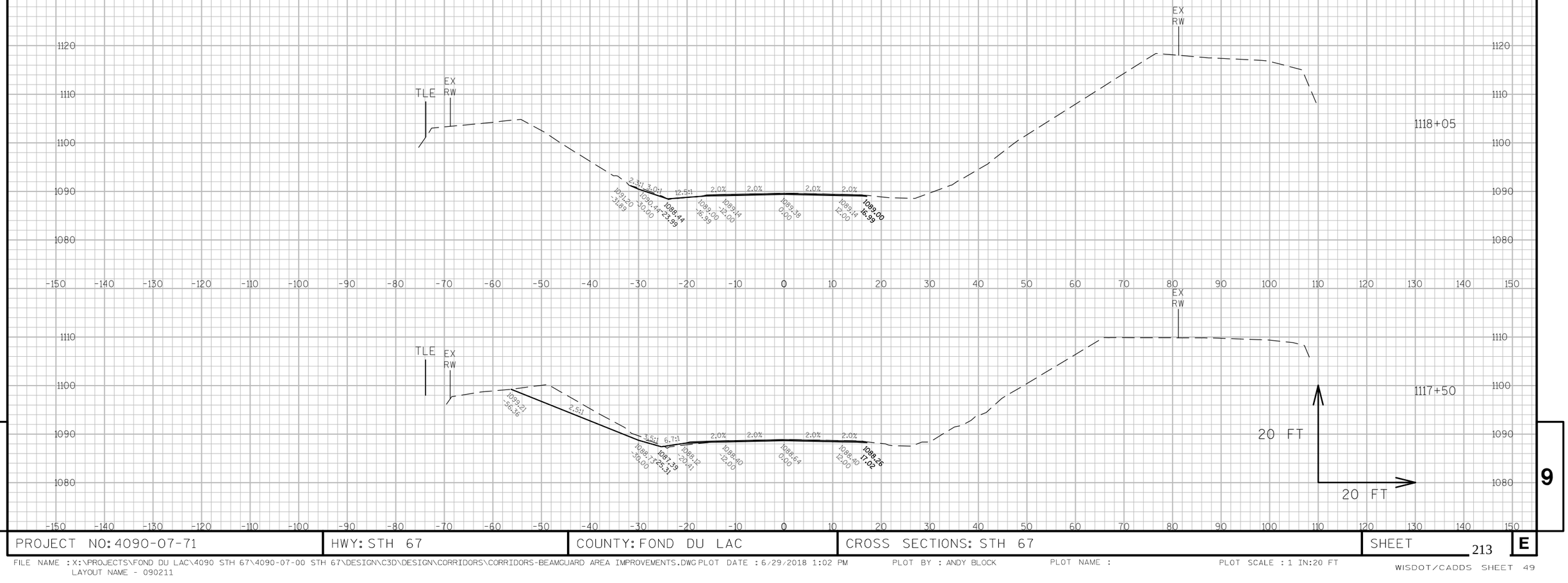
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PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 211 E

FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\DESIGN\CORRIDORS\CORRIDORS-BEAMGUARD AREA IMPROVEMENTS.DWG PLOT DATE : 6/29/2018 1:02 PM
LAYOUT NAME - 090209
PLOT BY : ANDY BLOCK
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49

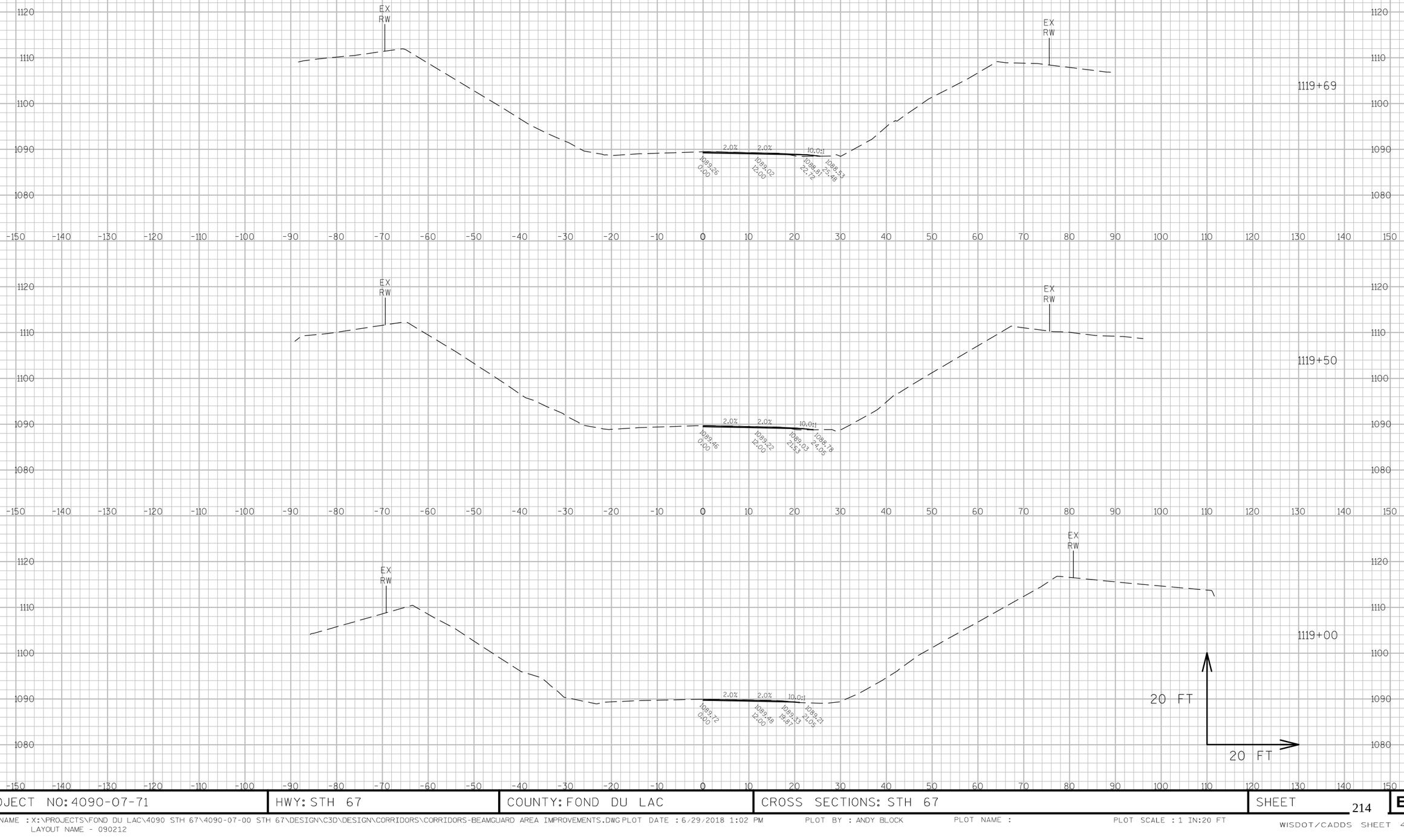

1117+15
TLE
EX RW
EX RW
1087.61
17.05
1086.13
26.00
1117+03
TLE
EX RW
EX RW
1087.38
17.05
1086.13
26.15
MGS GUARDRAIL EAT POST 1
1116+91
EX RW
EX RW
1087.02
17.83
1085.79
25.97
MGS GUARDRAIL EAT POST 5
1116+66
EX RW
EX RW
1084.11
21.50
1096.04
59.79
20 FT
20 FT



9

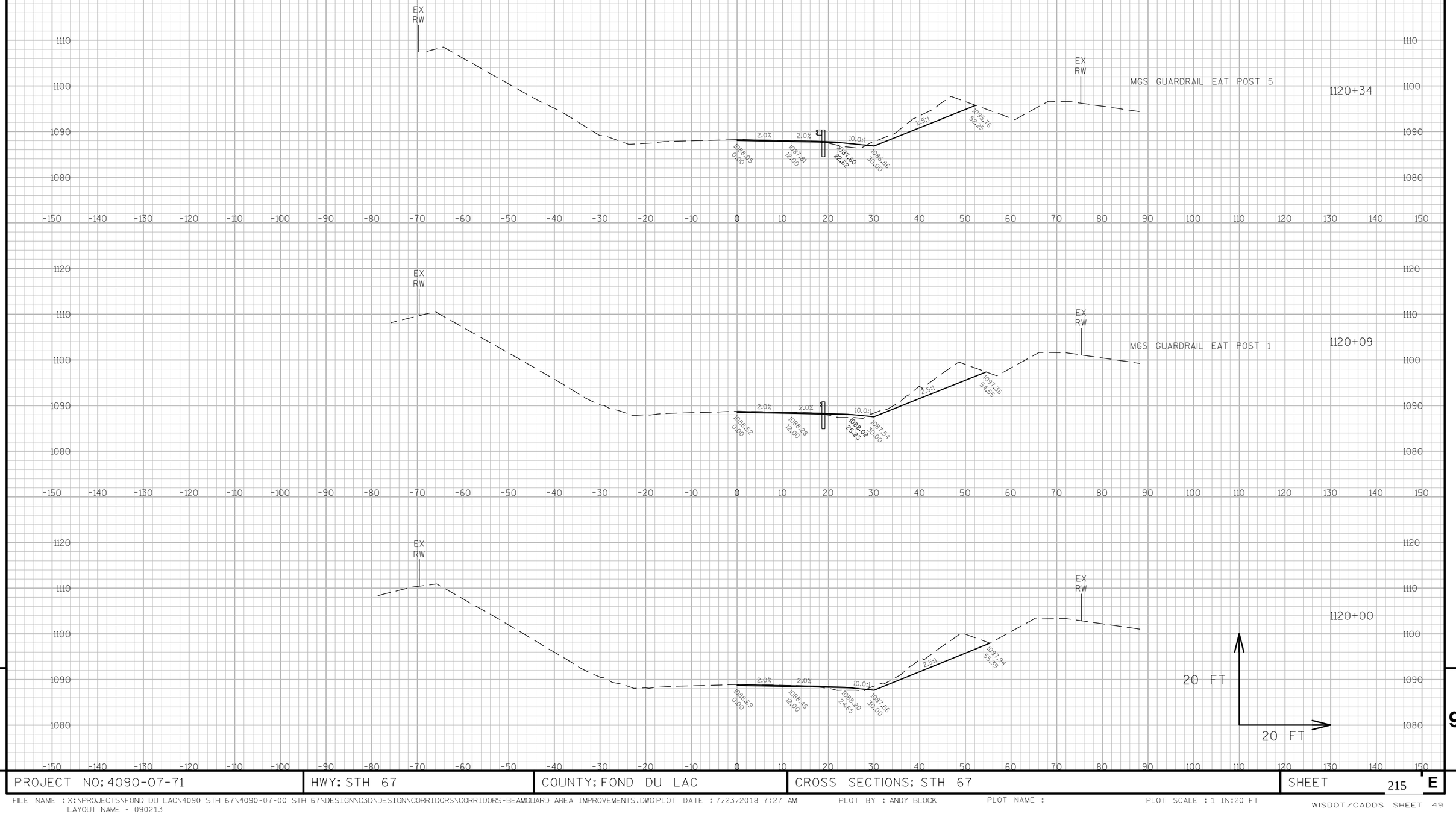
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PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 213	E



PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 214 E

FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\DESIGN\CORRIDORS\CORRIDORS-BEAMGUARD AREA IMPROVEMENTS.DWG PLOT DATE : 6/29/2018 1:02 PM PLOT BY : ANDY BLOCK PLOT NAME : PLOT SCALE : 1 IN:20 FT
LAYOUT NAME - 090212

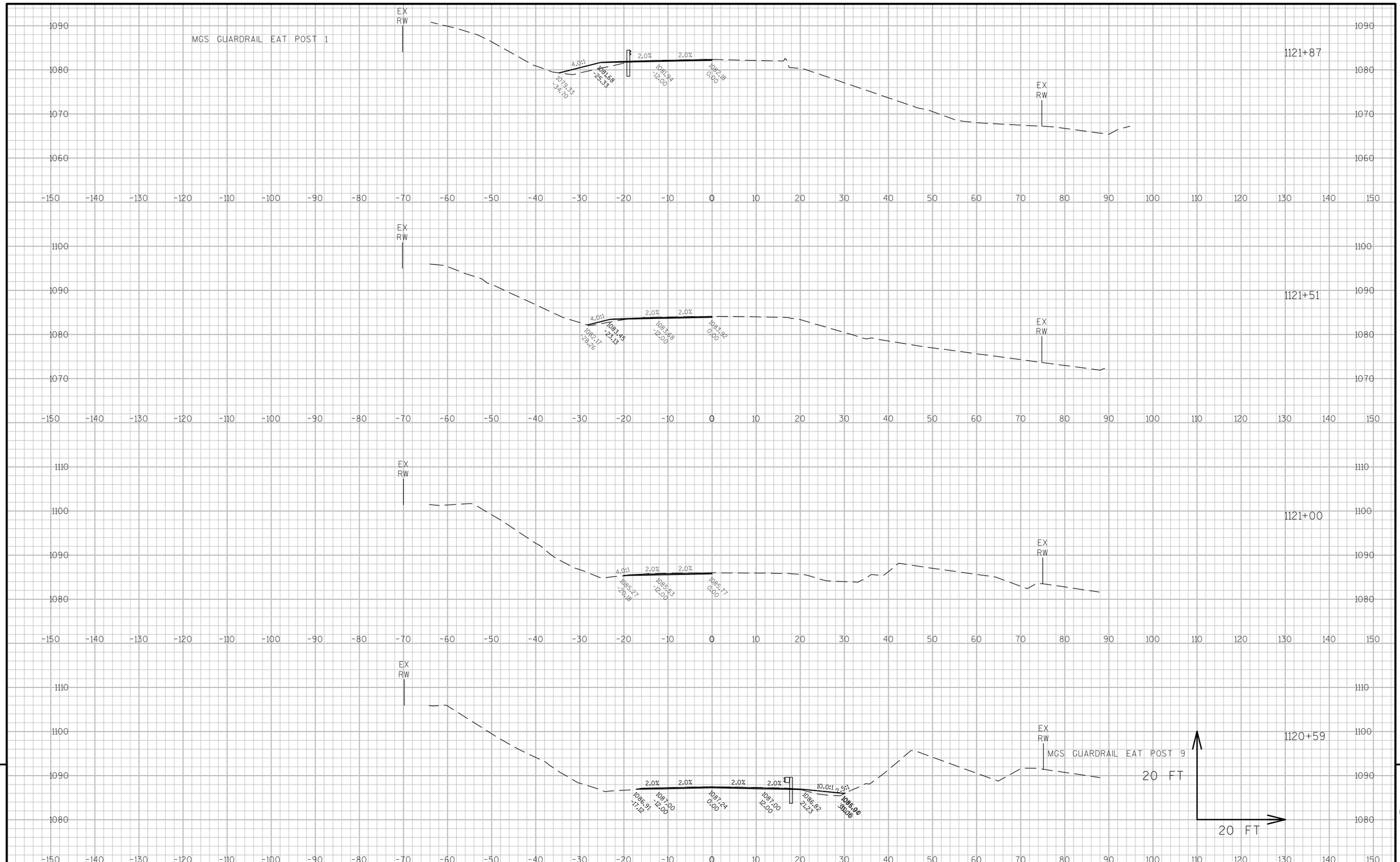


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PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 215 E

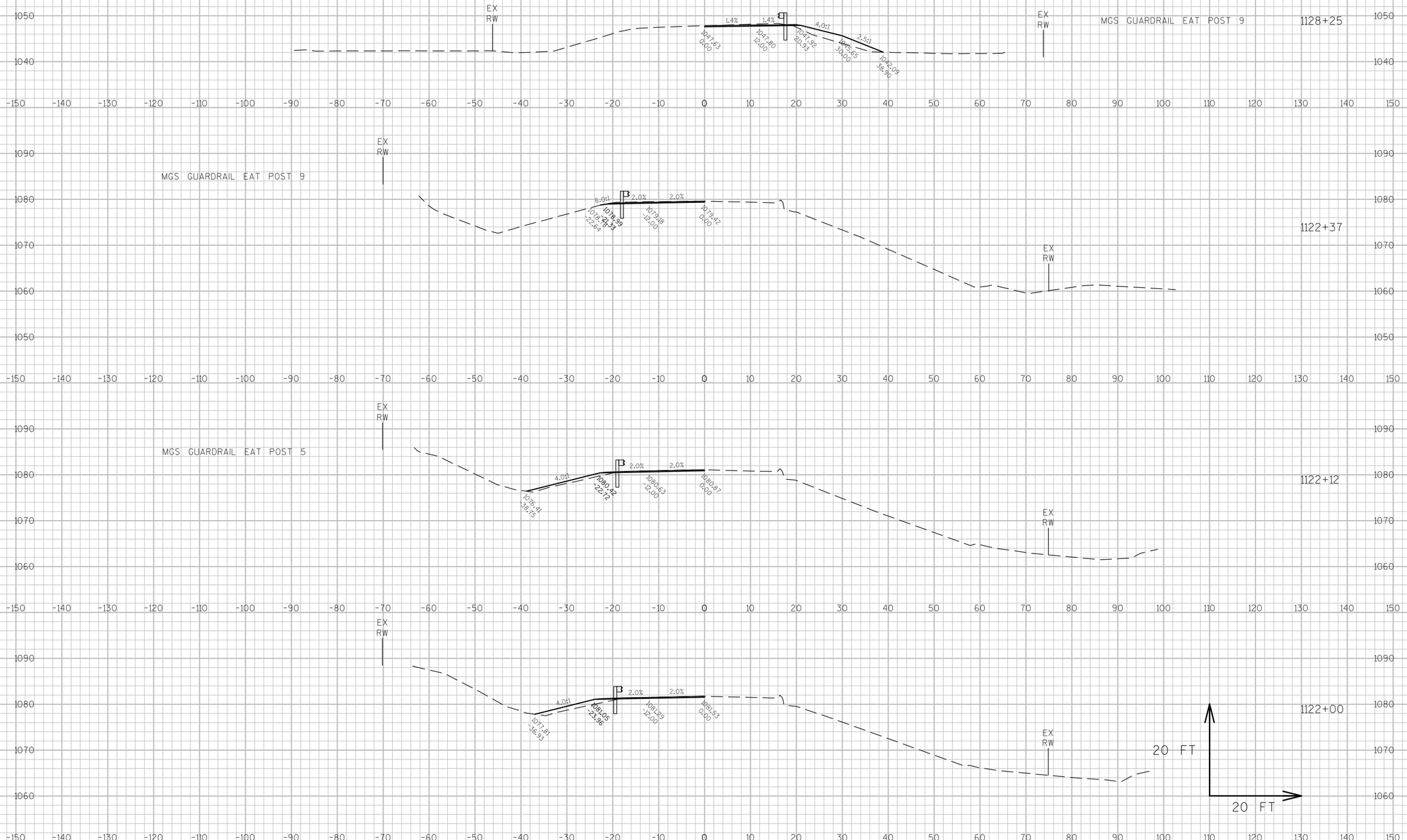
FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\DESIGN\CORRIDORS\CORRIDORS-BEAMGUARD AREA IMPROVEMENTS.DWG PLOT DATE : 7/23/2018 7:27 AM
LAYOUT NAME - 090213
PLOT BY : ANDY BLOCK
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



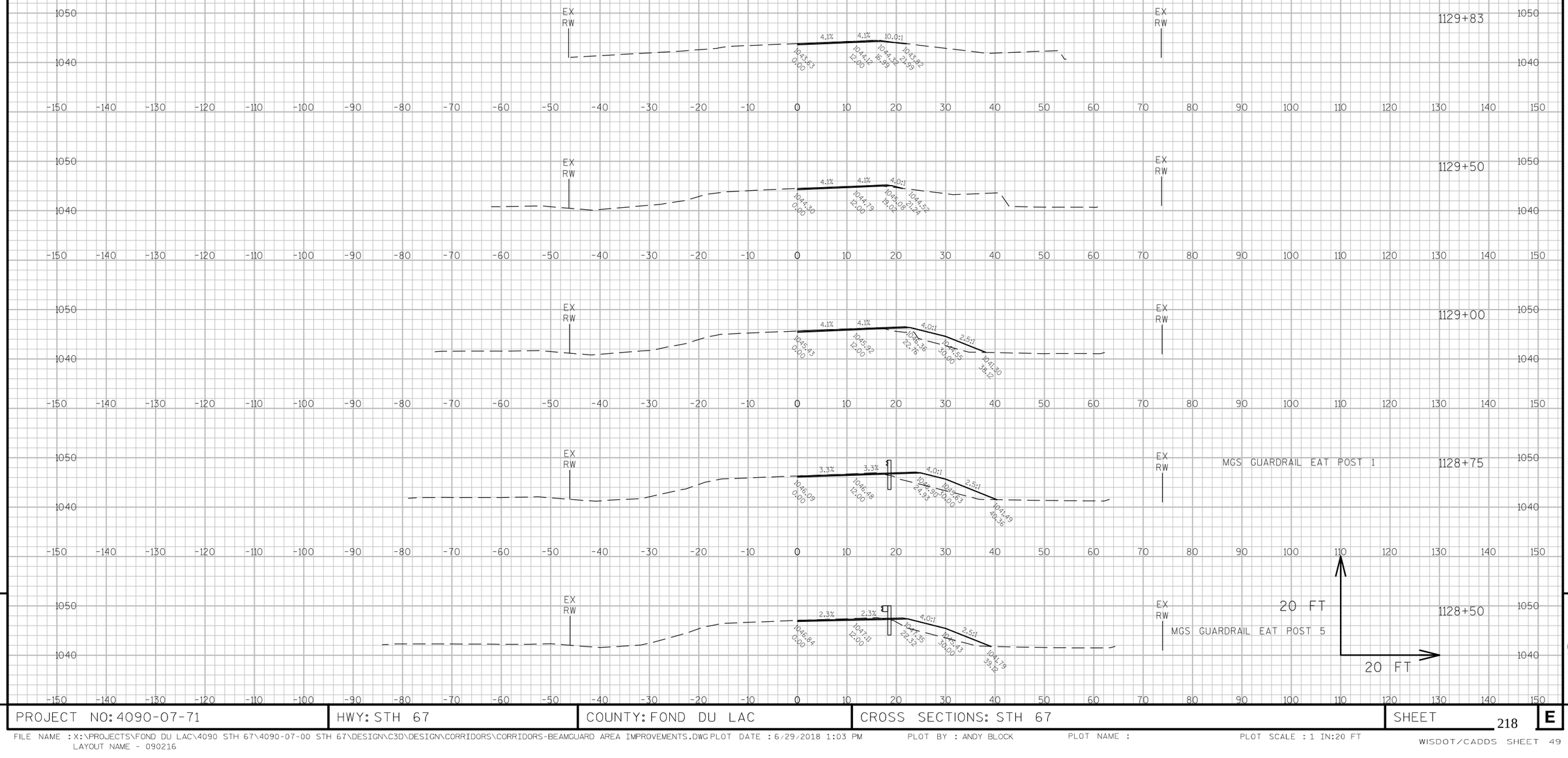
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PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 216	E



PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 217 E

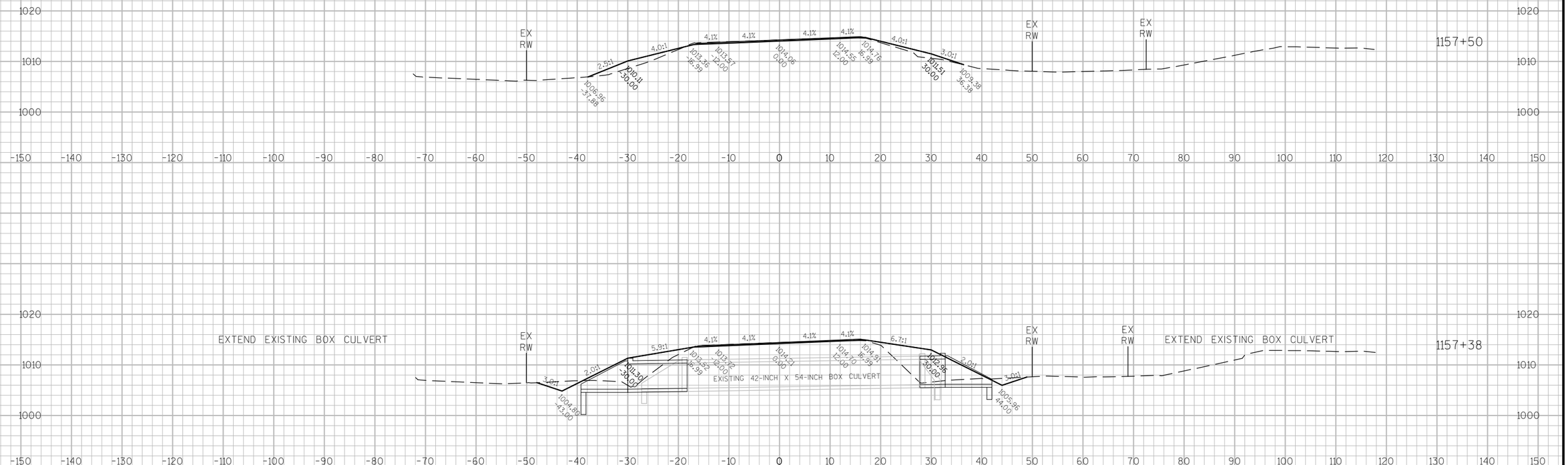


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PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 218 E

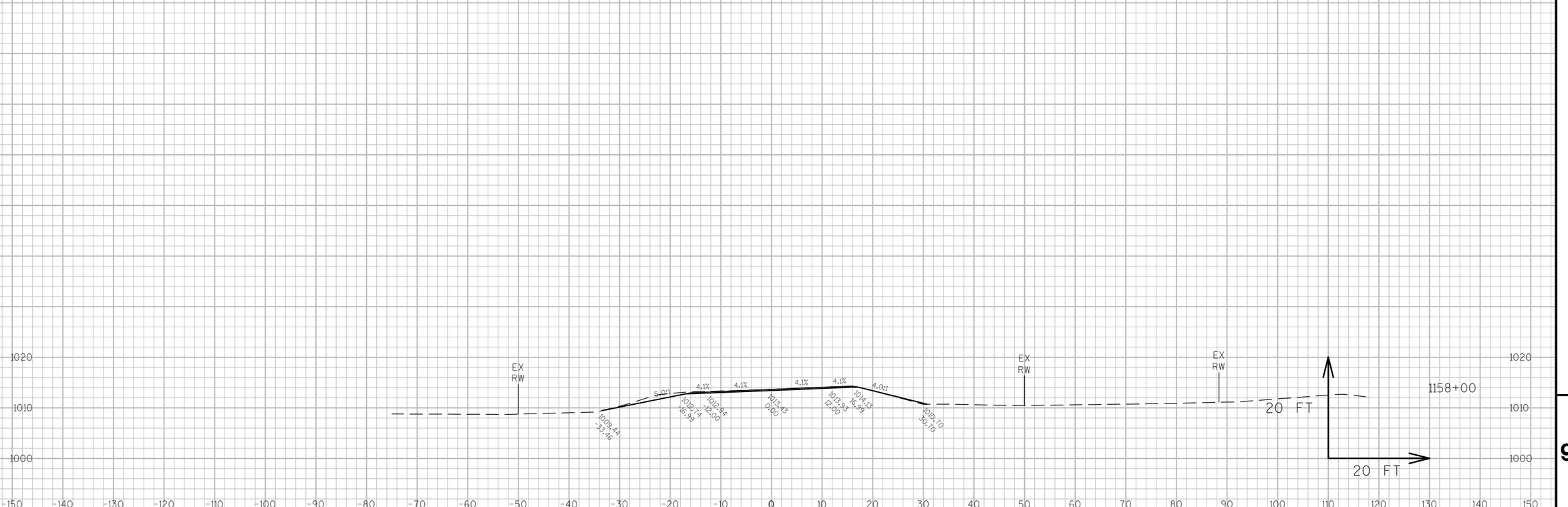
FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\DESIGN\CORRIDORS\CORRIDORS-BEAMGUARD AREA IMPROVEMENTS.DWG PLOT DATE : 6/29/2018 1:03 PM
LAYOUT NAME - 090216
PLOT BY : ANDY BLOCK
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



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PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 219 E



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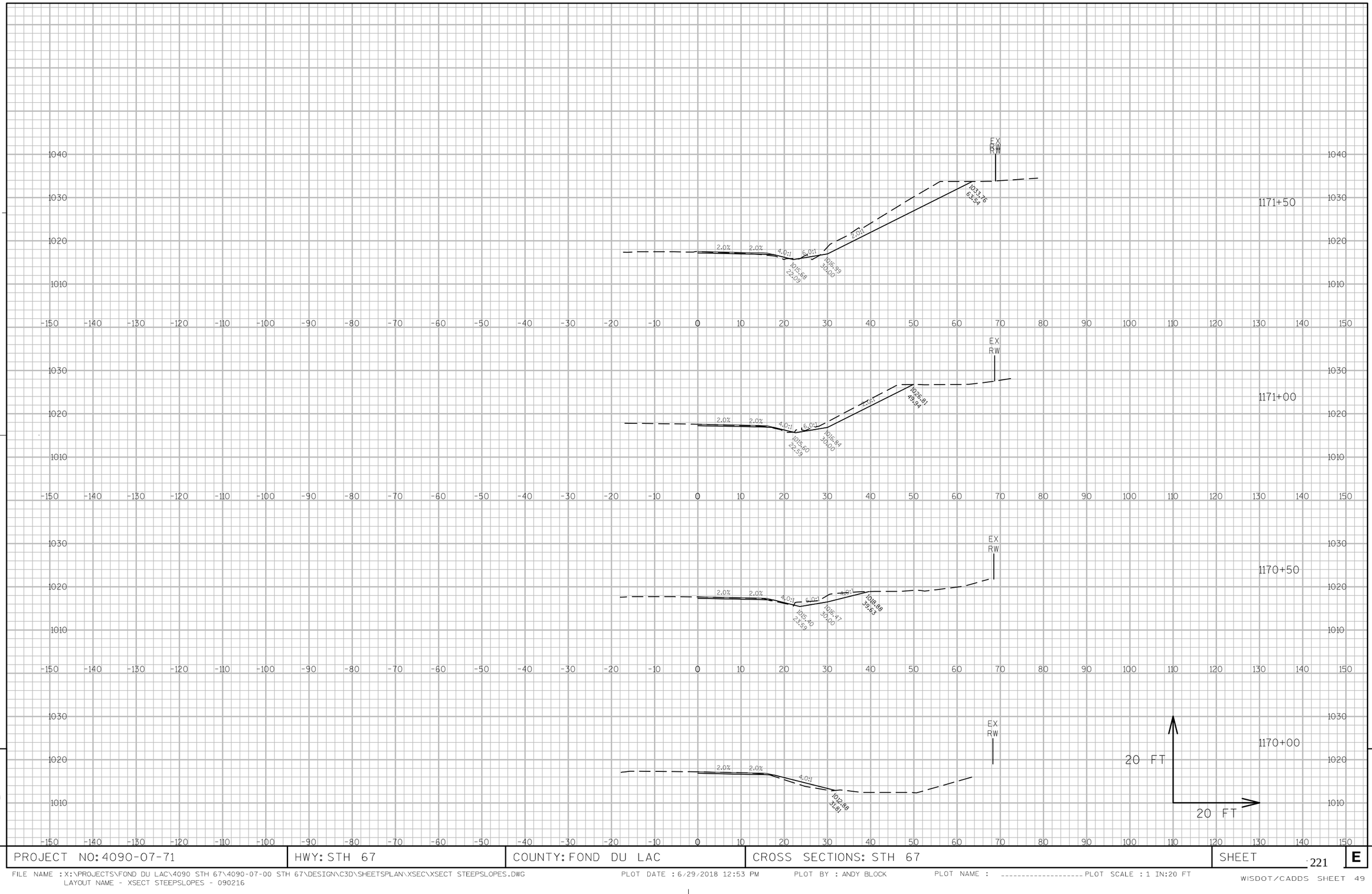
PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 220	E

FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\DESIGN\CORRIDORS\CORRIDORS-BEAMGUARD AREA IMPROVEMENTS.DWG PLOT DATE : 6/29/2018 1:03 PM
LAYOUT NAME - 090218

PLOT BY : ANDY BLOCK

PLOT NAME :

PLOT SCALE : 1 IN:20 FT

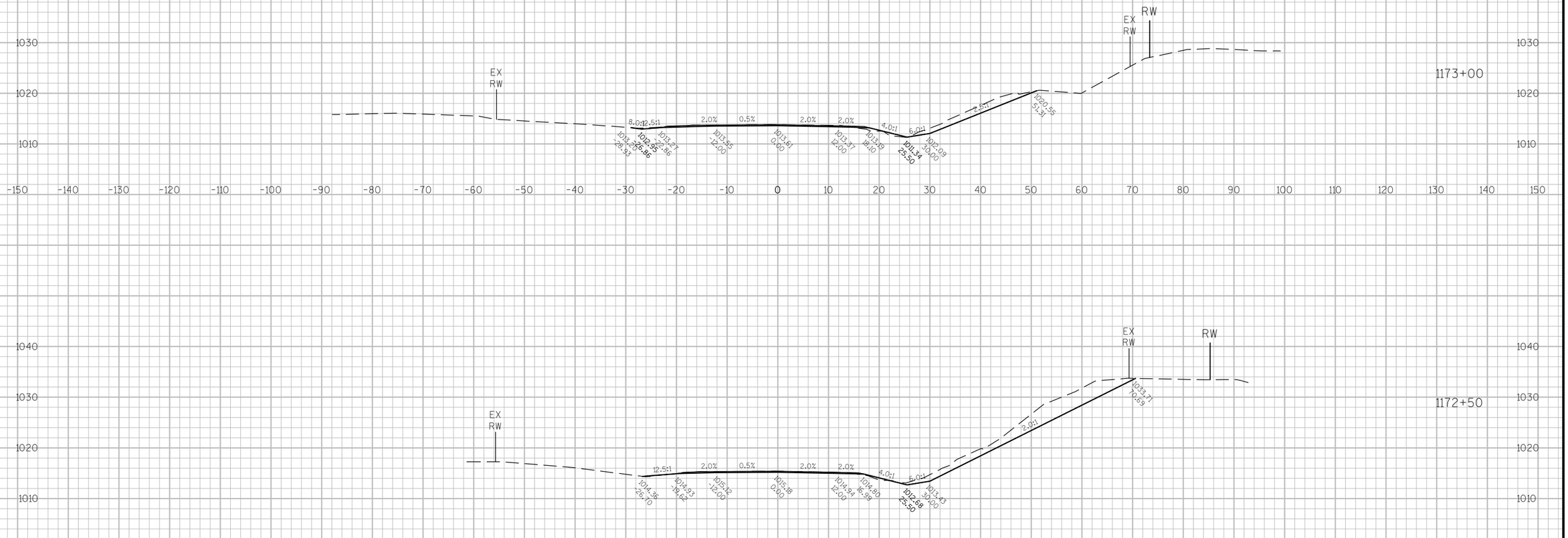


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PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 221	E

FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\SHEETSPLAN\XSEC\XSECT STEEPSLOPES.DWG
LAYOUT NAME - XSECT STEEPSLOPES - 090216
PLOT DATE : 6/29/2018 12:53 PM PLOT BY : ANDY BLOCK PLOT NAME : _____ PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



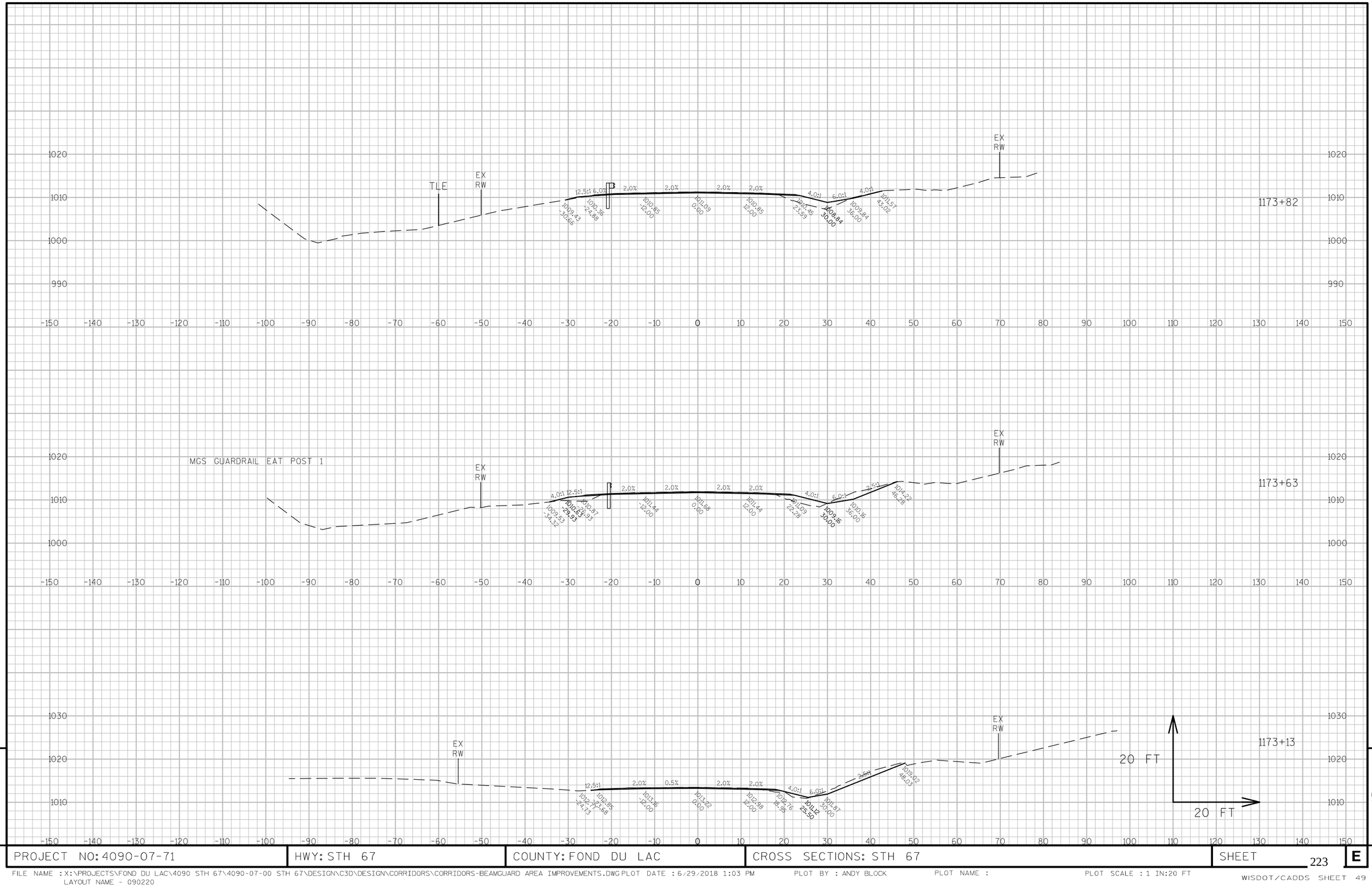
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PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 222 E

9

FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\DESIGN\CORRIDORS\CORRIDORS-BEAMGUARD AREA IMPROVEMENTS.DWG PLOT DATE : 6/29/2018 1:03 PM PLOT BY : ANDY BLOCK PLOT NAME : PLOT SCALE : 1 IN:20 FT
LAYOUT NAME - 090219

WISDOT/CADDS SHEET 49



9 9

PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 223 E

FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\DESIGN\CORRIDORS\CORRIDORS-BEAMGUARD AREA IMPROVEMENTS.DWG PLOT DATE : 6/29/2018 1:03 PM
LAYOUT NAME - 090220
PLOT BY : ANDY BLOCK
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49

MGS GUARDRAIL EAT POST 1

1174+32

MGS GUARDRAIL EAT POST 9

1174+13

MGS GUARDRAIL EAT POST 5

1173+88

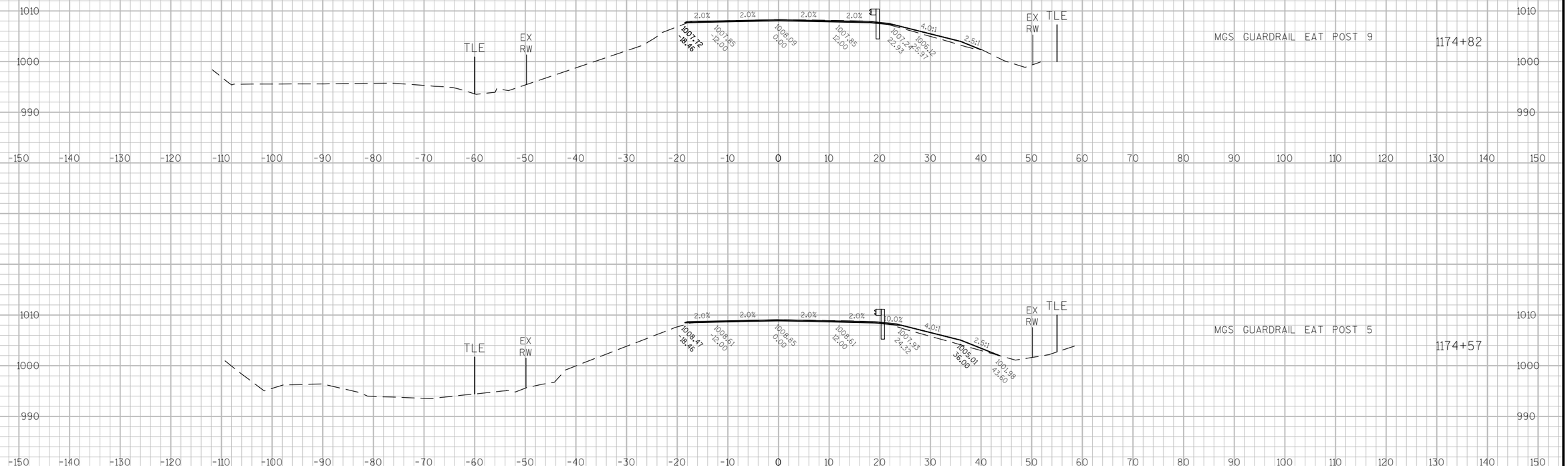
20 FT

20 FT

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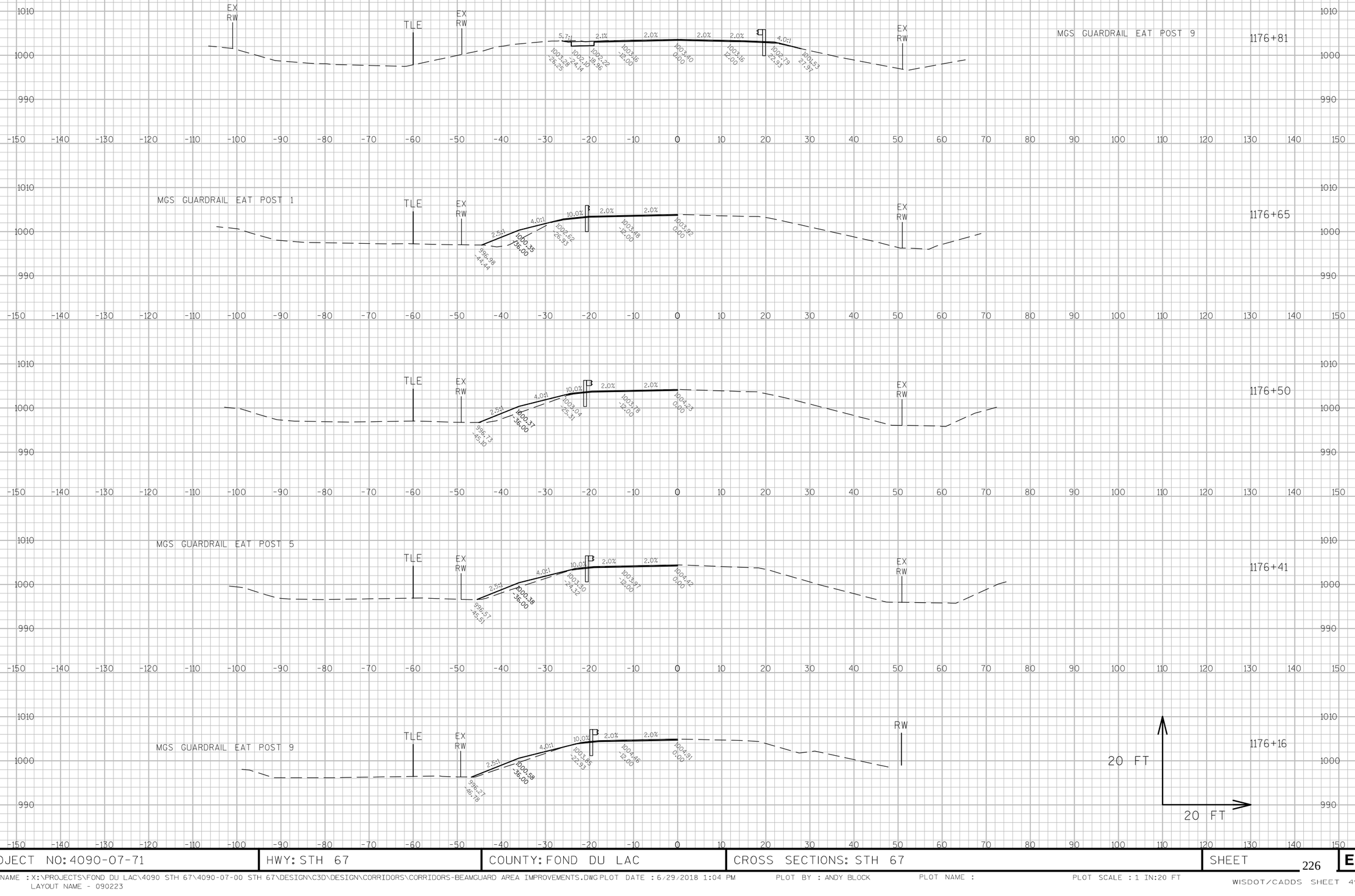
PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 224	E



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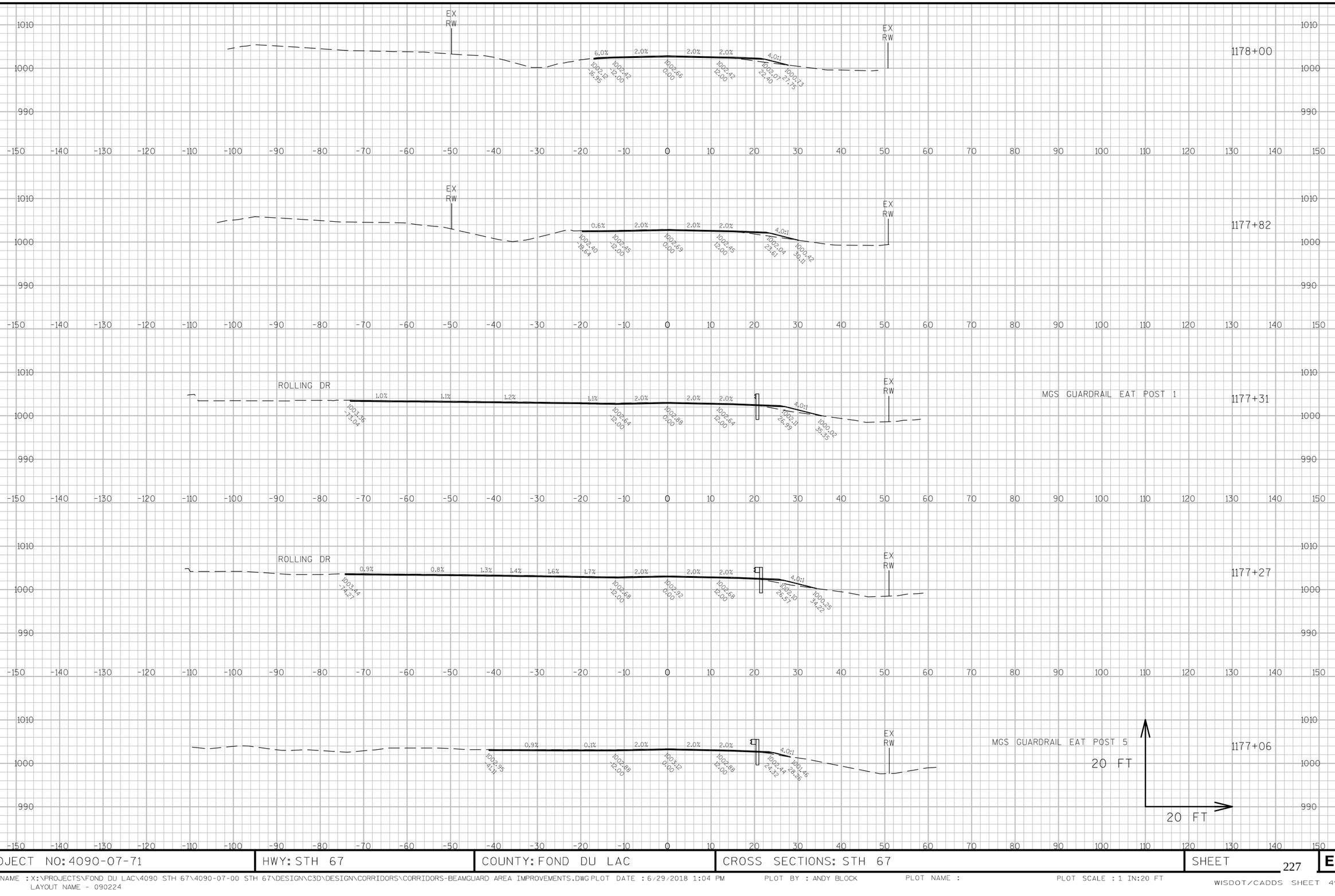
PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 225 E



9

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PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 226	E

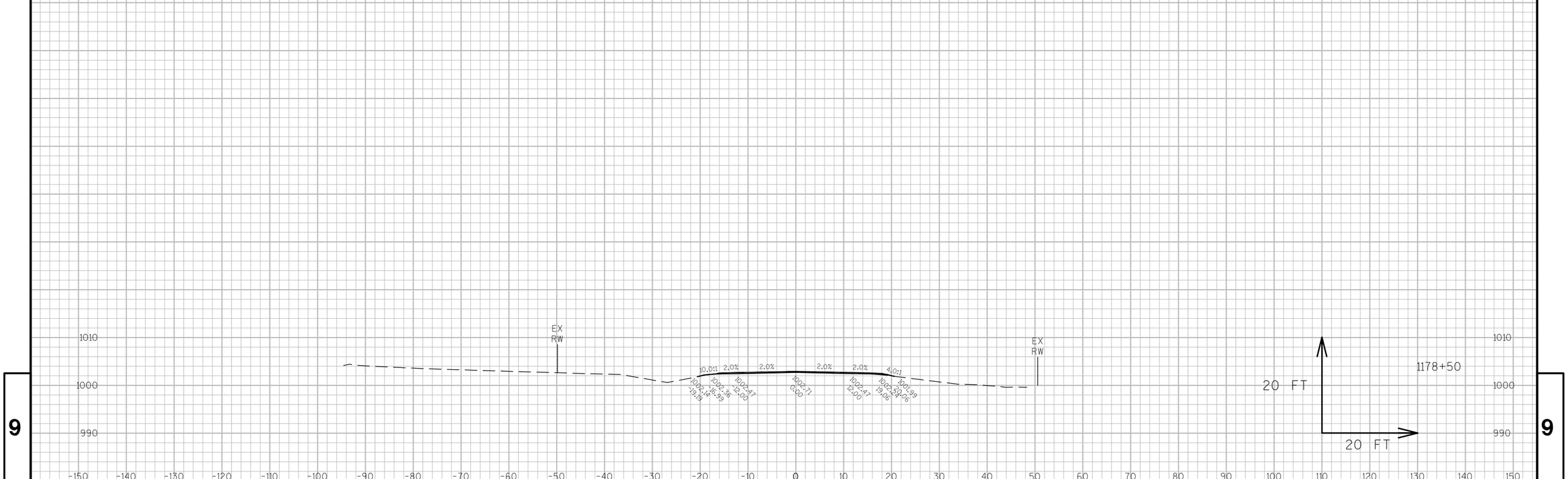


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PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 227	E

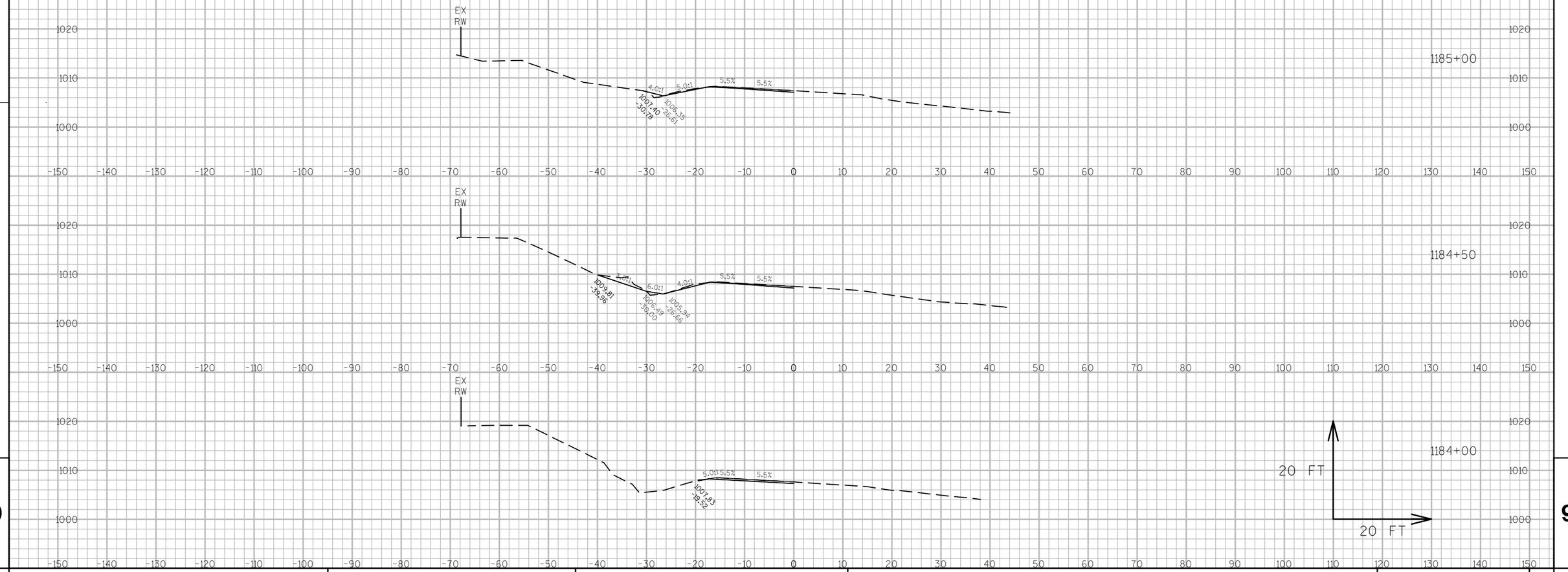
FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\DESIGN\CORRIDORS\CORRIDORS-BEAMGUARD AREA IMPROVEMENTS.DWG PLOT DATE : 6/29/2018 1:04 PM
LAYOUT NAME - 090224
PLOT BY : ANDY BLOCK
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



9

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PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 228 E

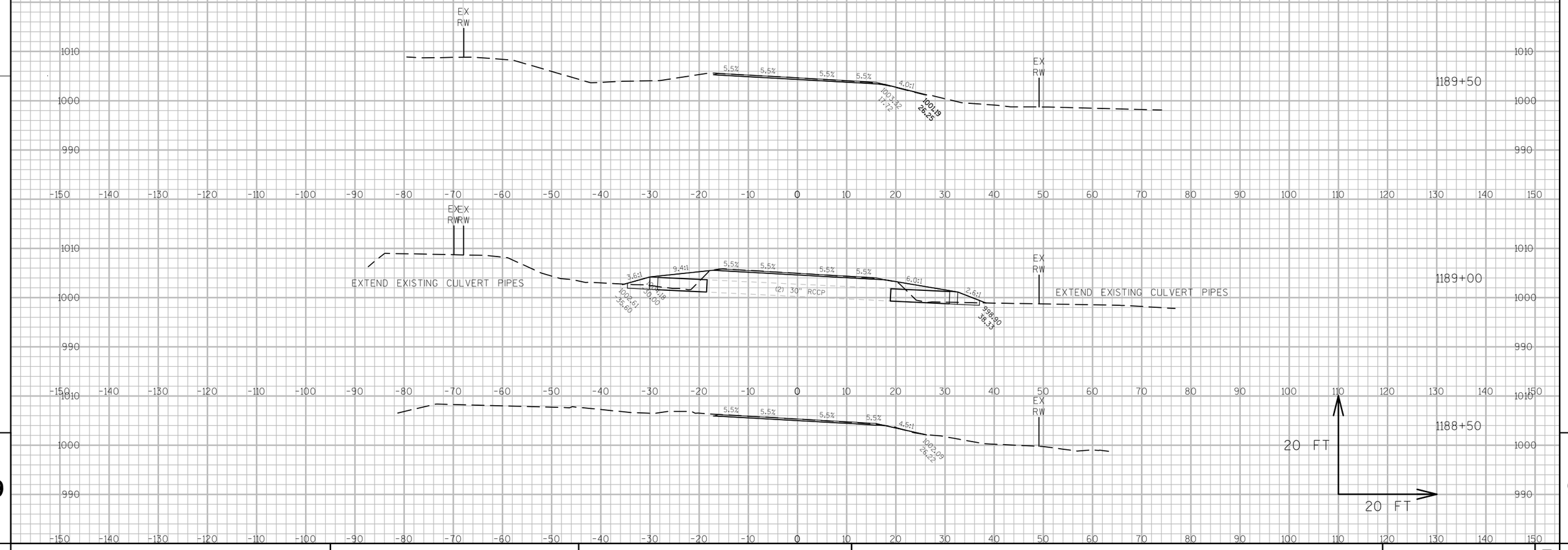


PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET - 229 E

FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\SHEETSPLAN\XSEC\XSECT STEEPSLOPES.DWG
LAYOUT NAME - XSECT STEEPSLOPES - 090217

PLOT DATE : 11/12/2018 1:57 PM PLOT BY : ANDY BLOCK PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

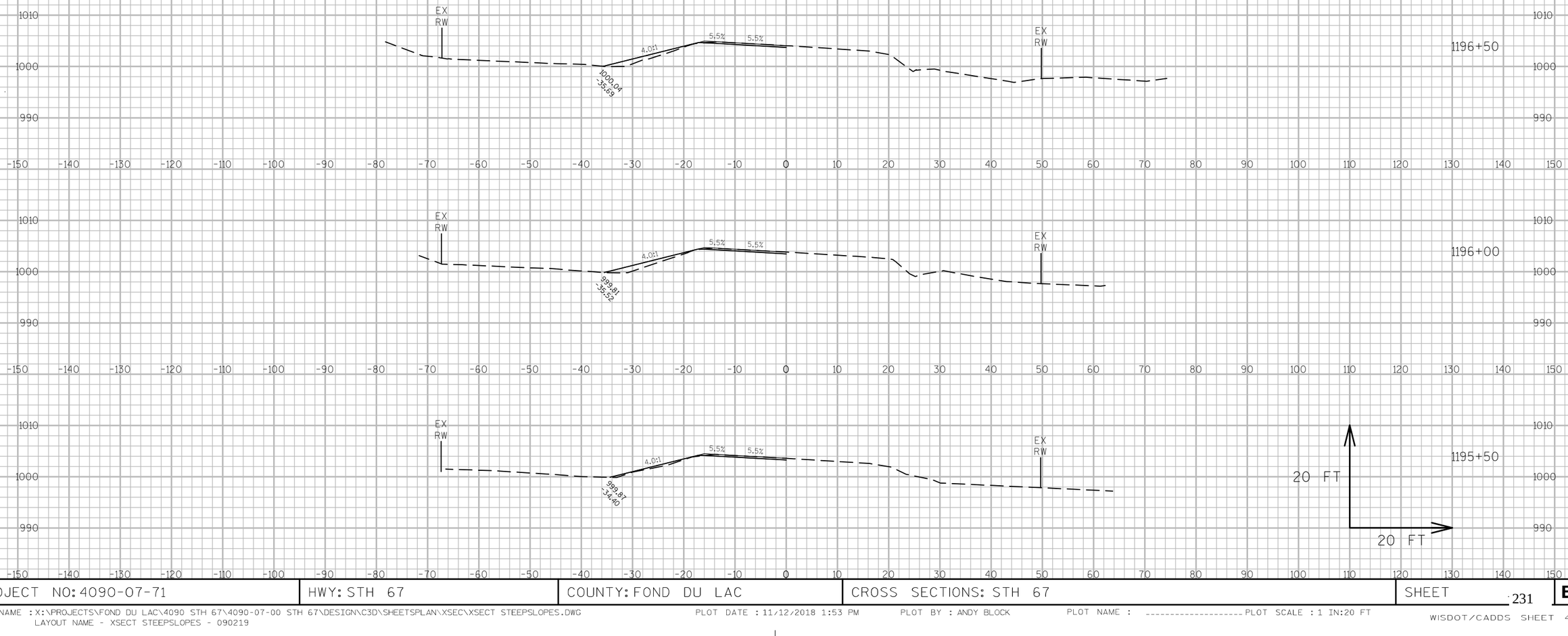
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PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 230	E

FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\SHEETSPLAN\XSEC\XSECT STEEPSLOPES.DWG
LAYOUT NAME - XSECT STEEPSLOPES - 090218

PLOT DATE : 11/12/2018 1:53 PM PLOT BY : ANDY BLOCK PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

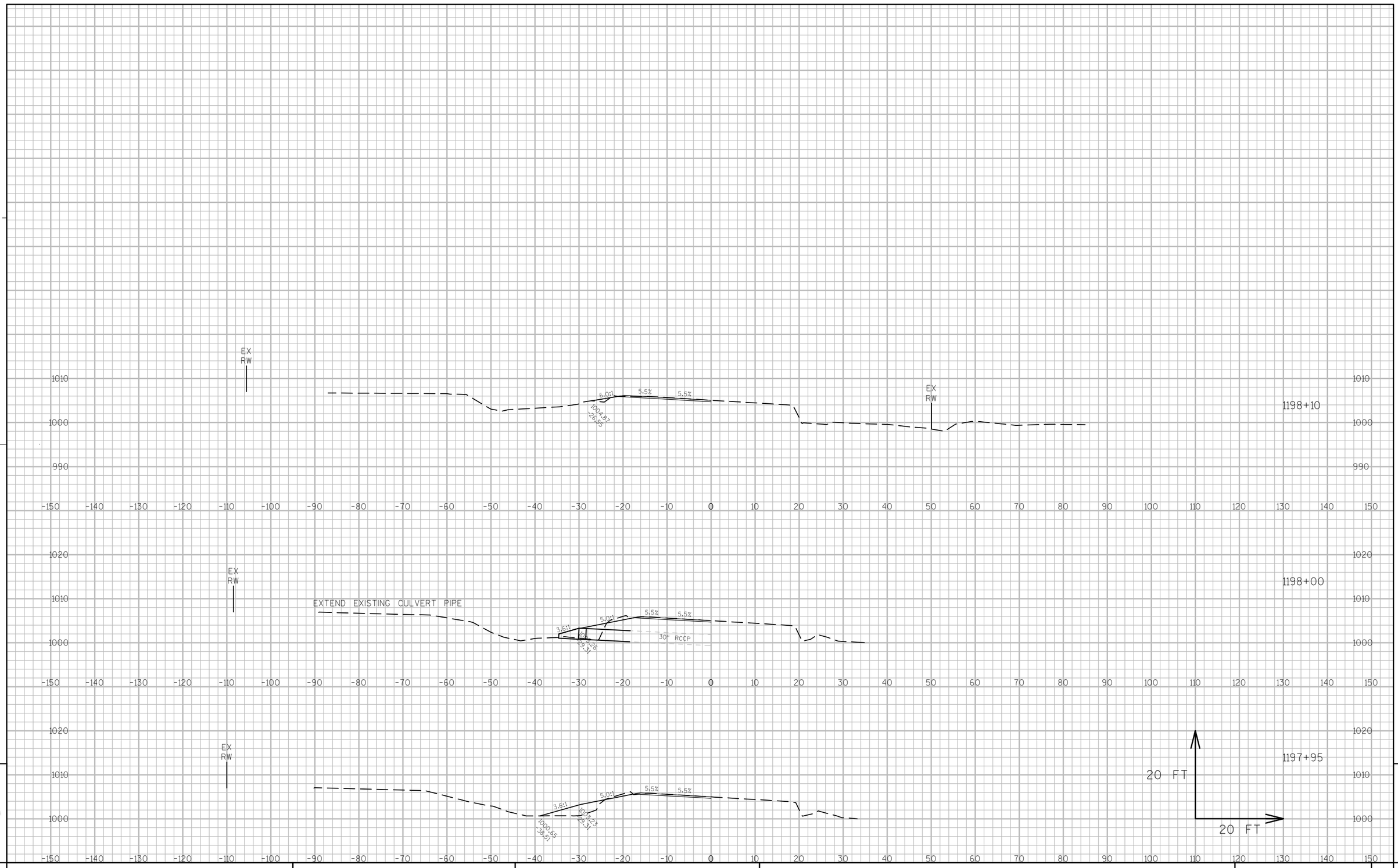
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PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 231	E

FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\SHEETSPLAN\XSEC\XSECT STEEPSLOPES.DWG
LAYOUT NAME - XSECT STEEPSLOPES - 090219

PLOT DATE : 11/12/2018 1:53 PM PLOT BY : ANDY BLOCK PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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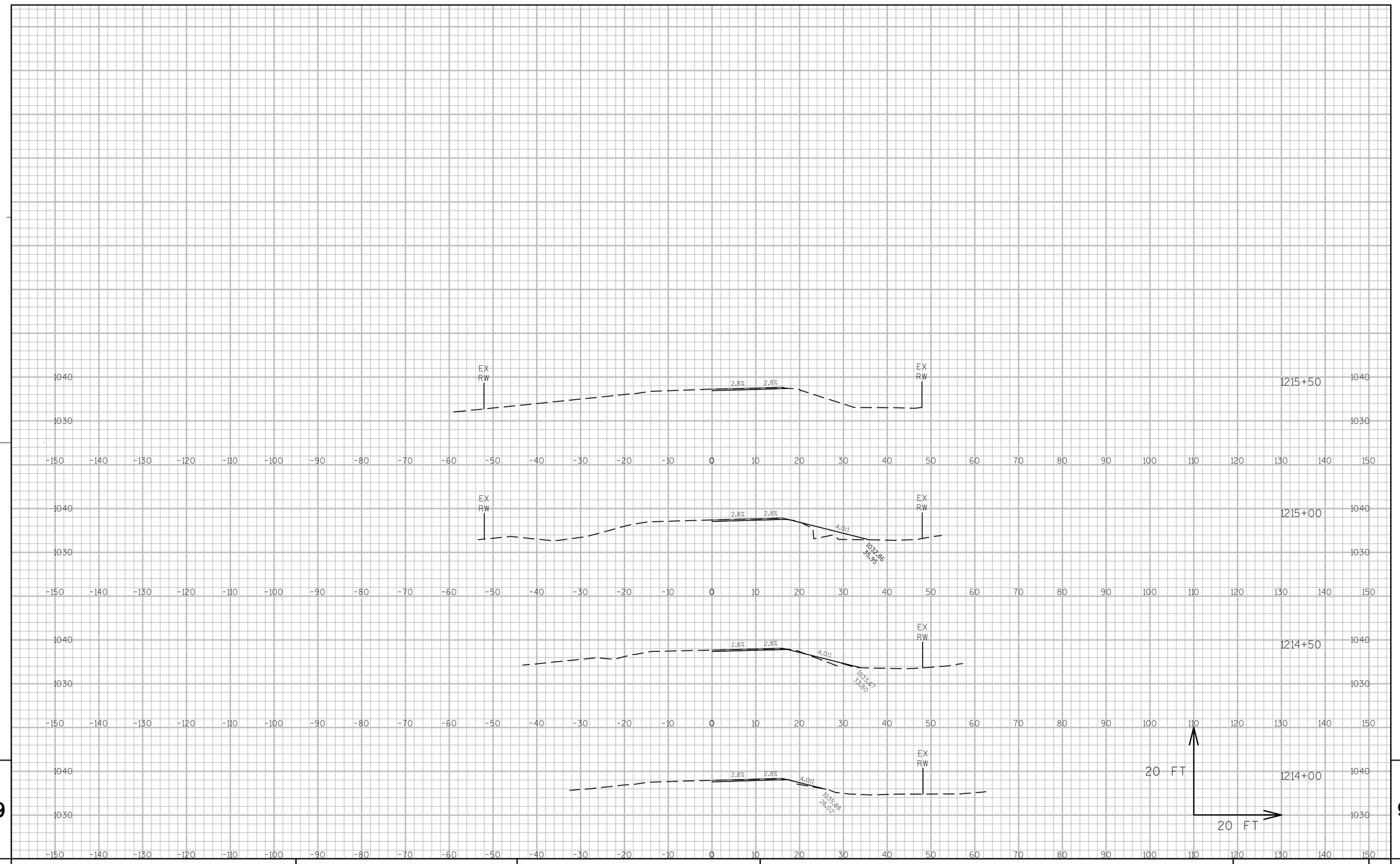
9

PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 232	E

FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\SHEETSPLAN\XSEC\XSECT STEEPSLOPES.DWG
LAYOUT NAME - XSECT STEEPSLOPES - 090220

PLOT DATE : 11/12/2018 1:53 PM PLOT BY : ANDY BLOCK PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

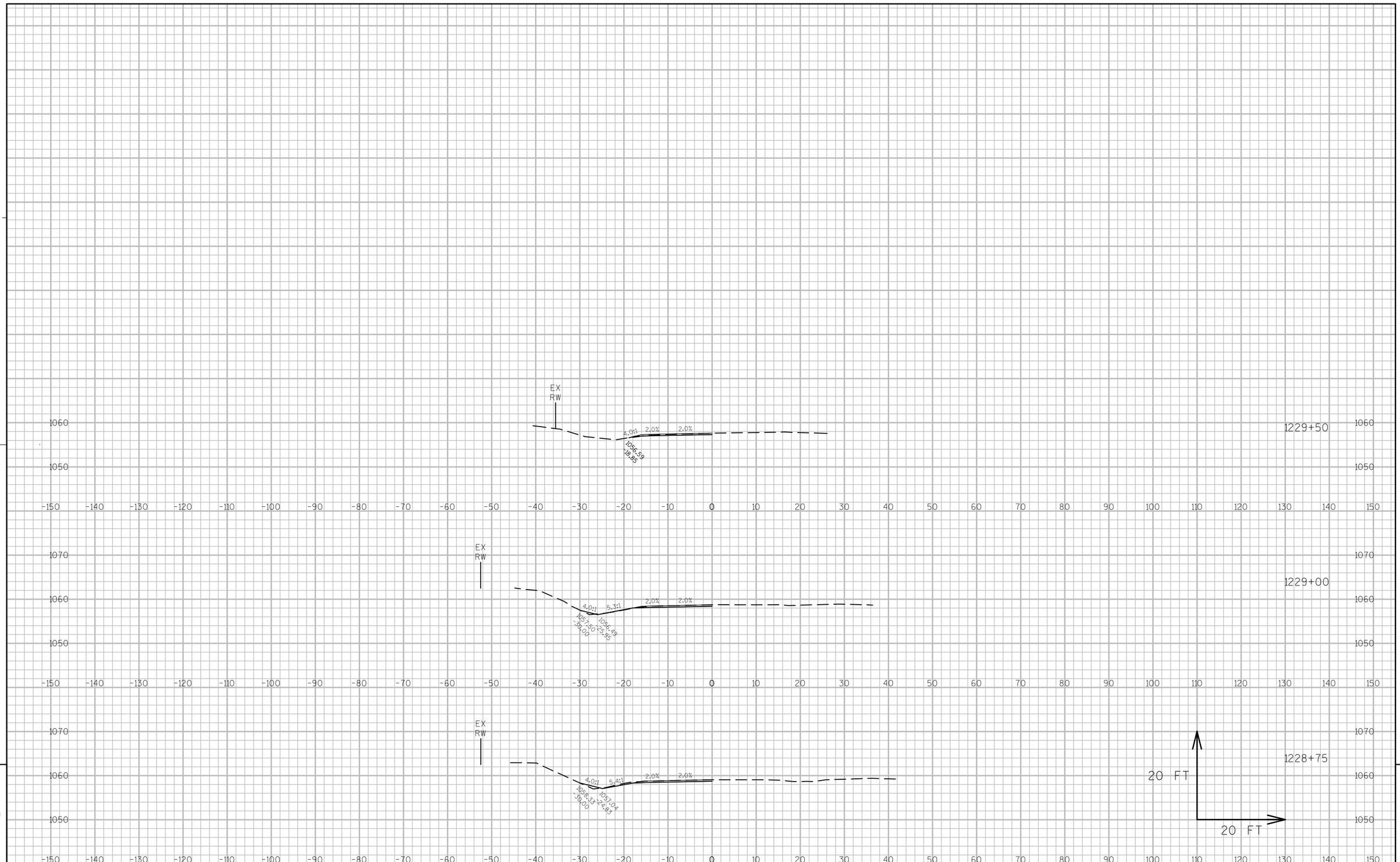
9

PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 233	E

FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\SHEETSPLAN\XSEC\XSECT STEEPSLOPES.DWG
LAYOUT NAME - XSECT STEEPSLOPES - 090221

PLOT DATE : 6/29/2018 12:54 PM PLOT BY : ANDY BLOCK PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT

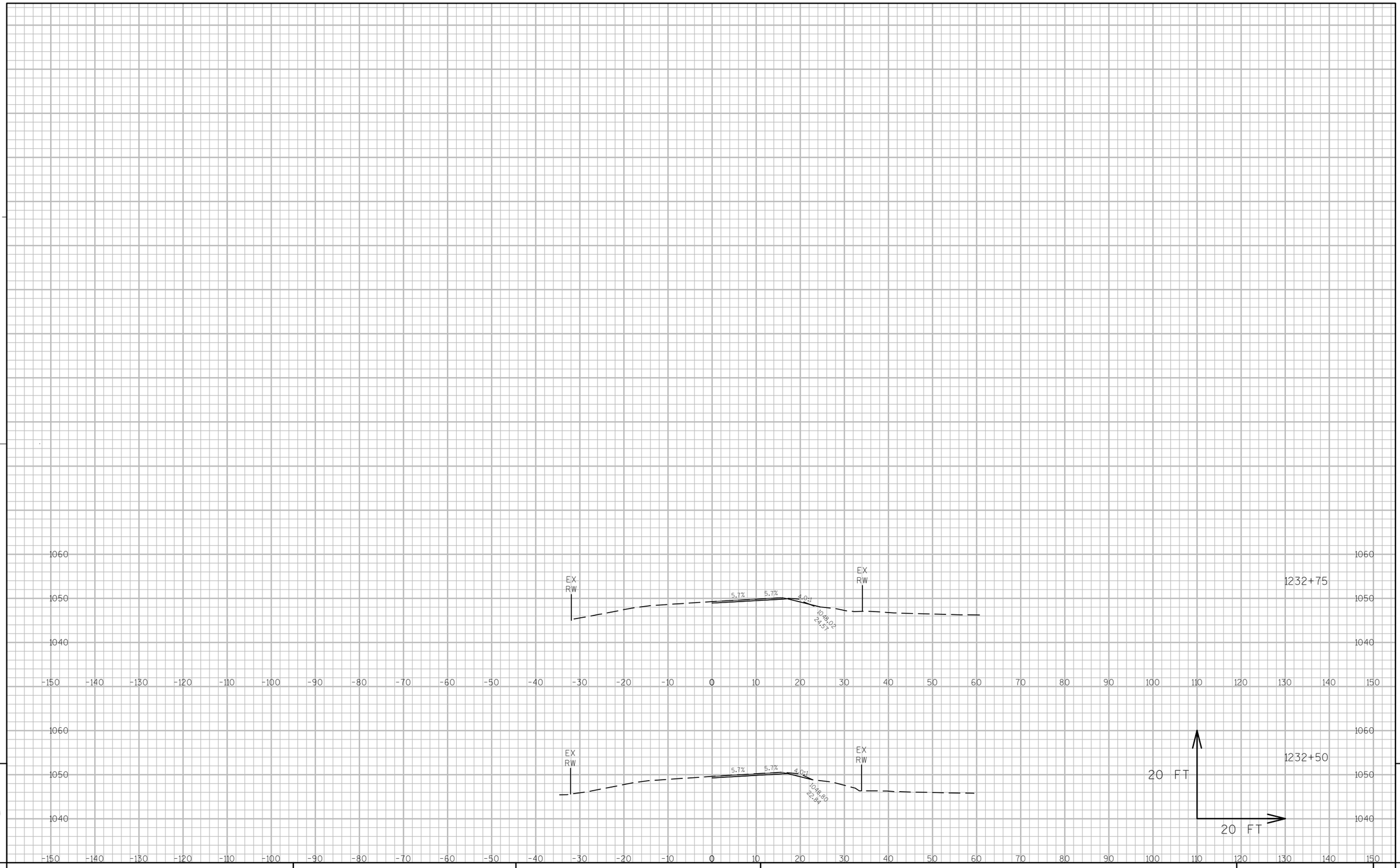
WISDOT/CADDS SHEET 49



PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 234	E

FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\SHEETSPLAN\XSEC\XSECT STEEPSLOPES.DWG
LAYOUT NAME - XSECT STEEPSLOPES - 090222

PLOT DATE : 6/29/2018 12:54 PM PLOT BY : ANDY BLOCK PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT



9

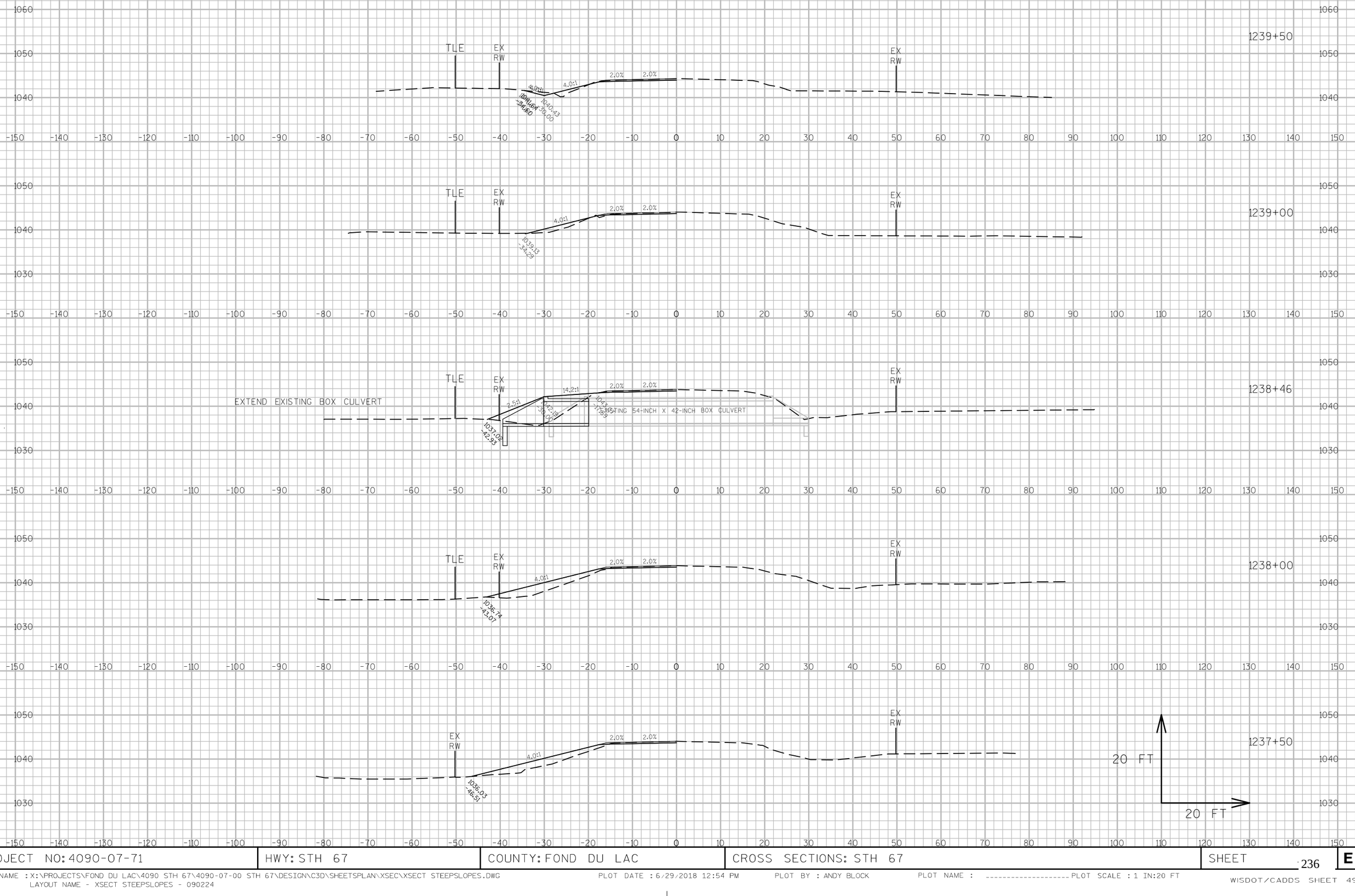
9

PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 235	E

FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\SHEETSPLAN\XSEC\XSECT STEEPSLOPES.DWG
LAYOUT NAME - XSECT STEEPSLOPES - 090223

PLOT DATE : 6/29/2018 12:54 PM PLOT BY : ANDY BLOCK PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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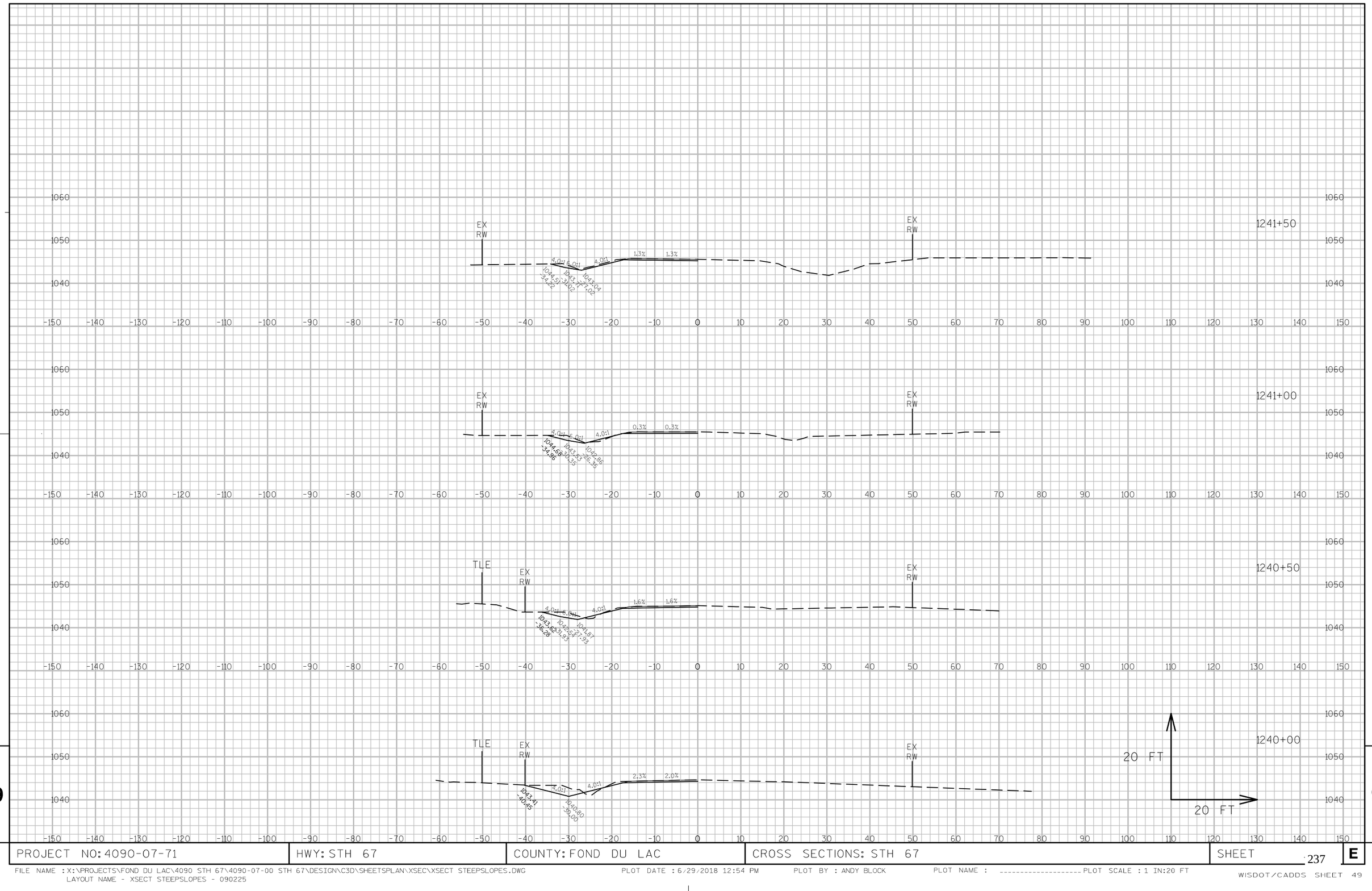
9

PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 236	E

FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\SHEETSPLAN\XSEC\XSECT STEEPSLOPES.DWG
LAYOUT NAME - XSECT STEEPSLOPES - 090224

PLOT DATE : 6/29/2018 12:54 PM PLOT BY : ANDY BLOCK PLOT NAME : _____ PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 237	E

FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\SHEETSPLAN\XSEC\XSECT STEEPSLOPES.DWG
LAYOUT NAME - XSECT STEEPSLOPES - 090225

PLOT DATE : 6/29/2018 12:54 PM PLOT BY : ANDY BLOCK PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT

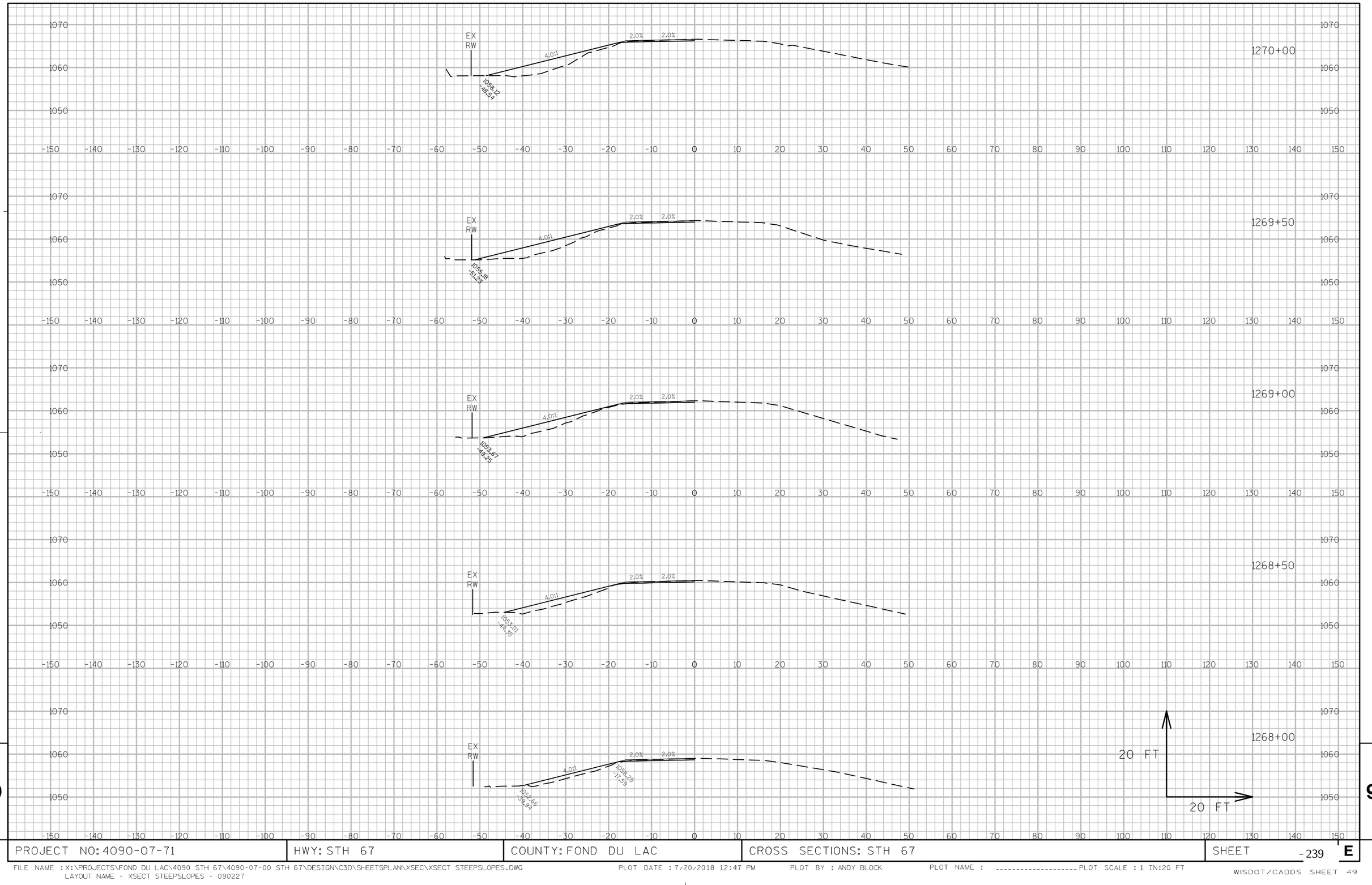


PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 238	E

FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\SHEETSPLAN\XSEC\XSECT STEEPSLOPES.DWG
LAYOUT NAME - XSECT STEEPSLOPES - 090226

PLOT DATE : 6/29/2018 12:54 PM PLOT BY : ANDY BLOCK PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT

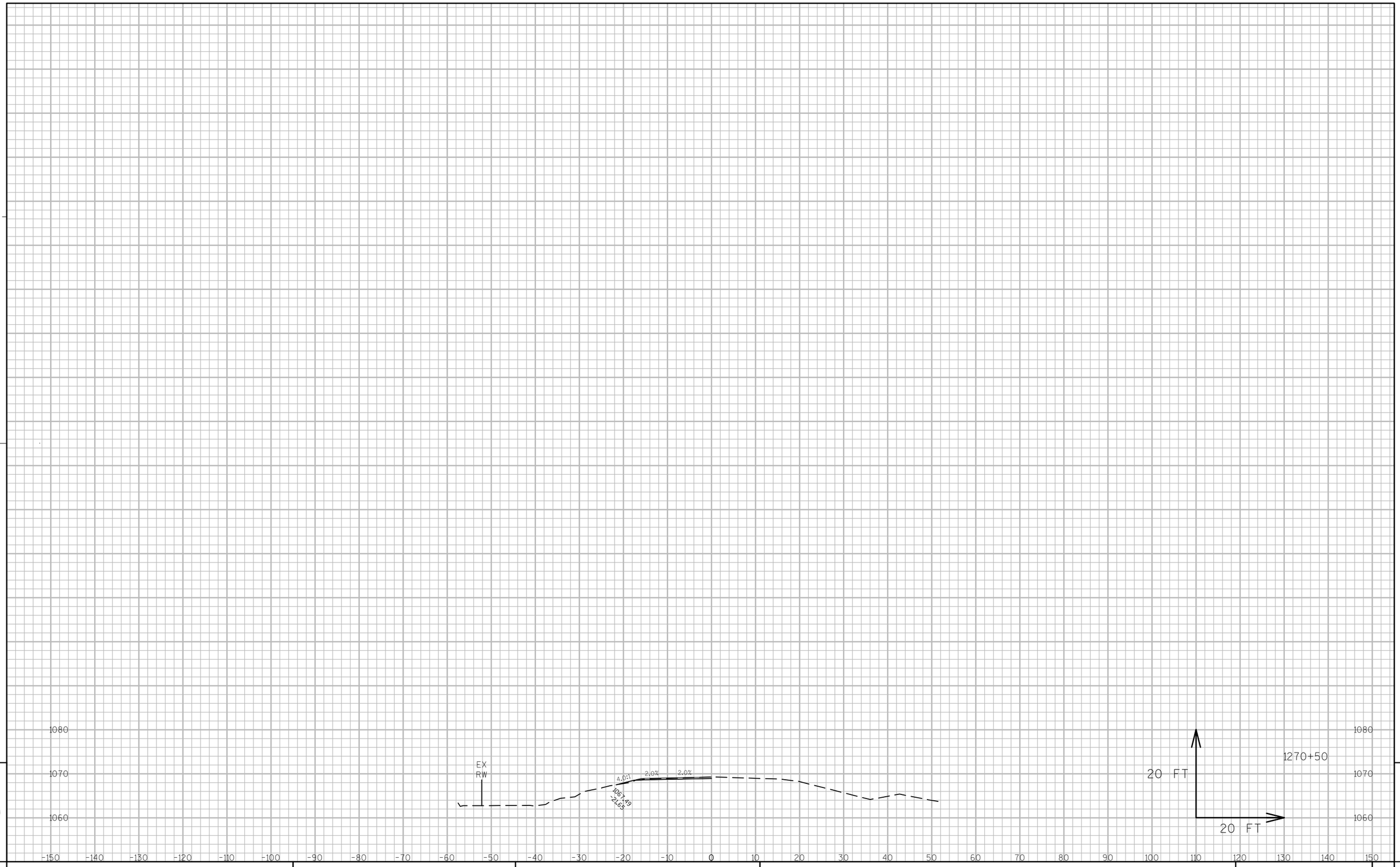
WISDOT/CADDS SHEET 49



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9

PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET - 239 E



9

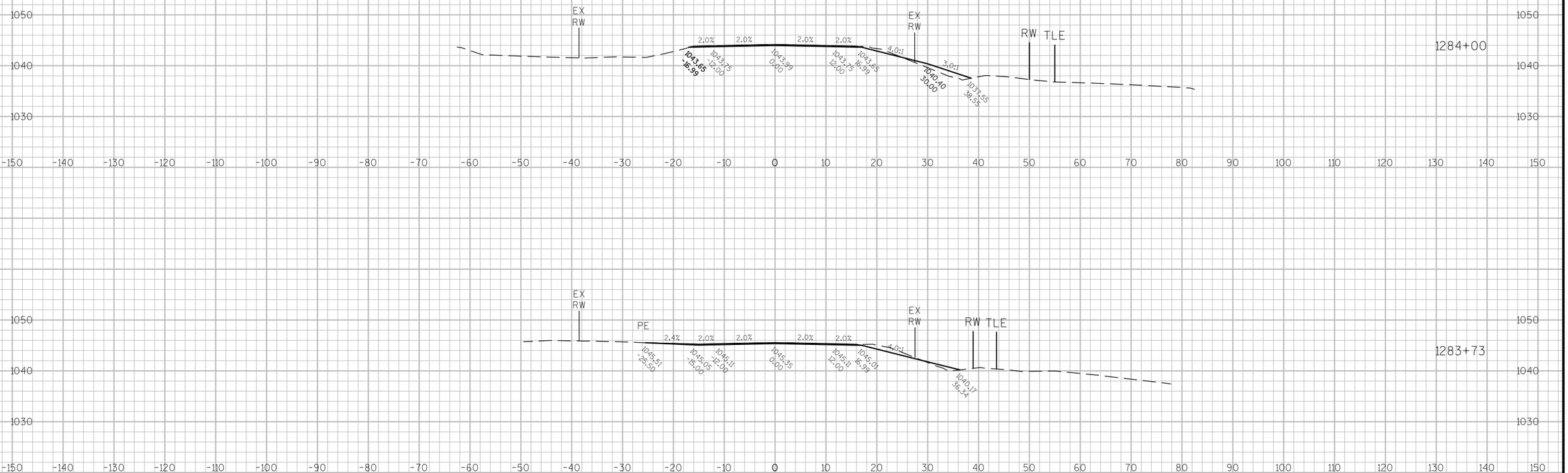
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PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 240	E

FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\SHEETSPLAN\XSEC\XSECT STEEPSLOPES.DWG
LAYOUT NAME - XSECT STEEPSLOPES - 090228

PLOT DATE : 6/29/2018 12:54 PM PLOT BY : ANDY BLOCK PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

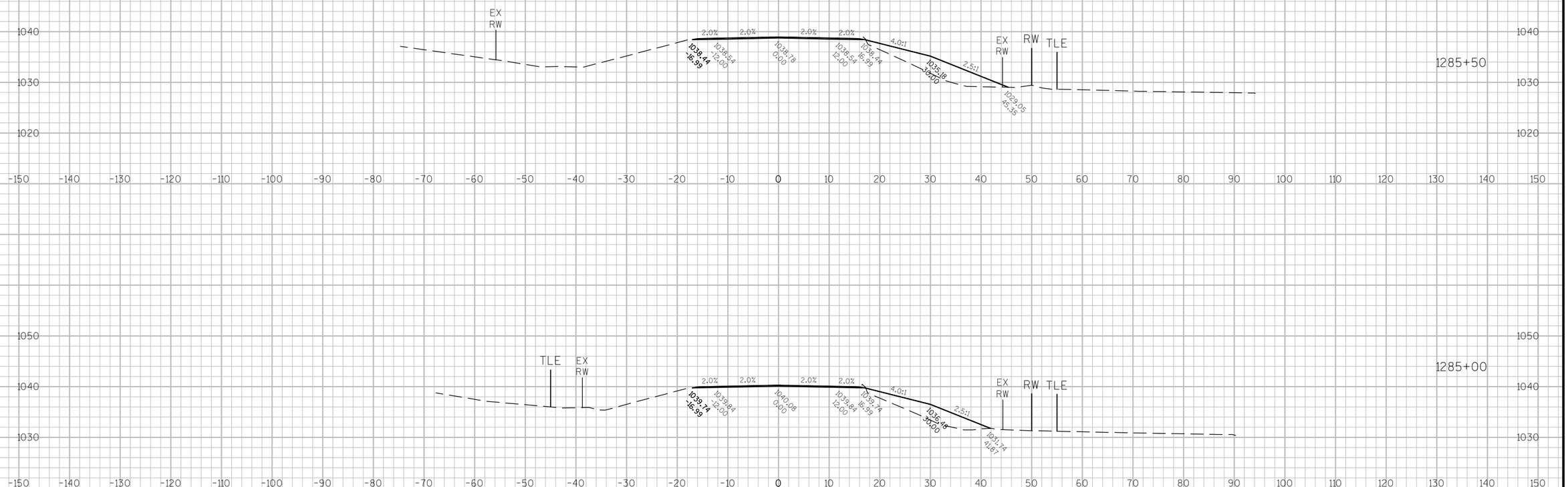


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PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 241	E

9

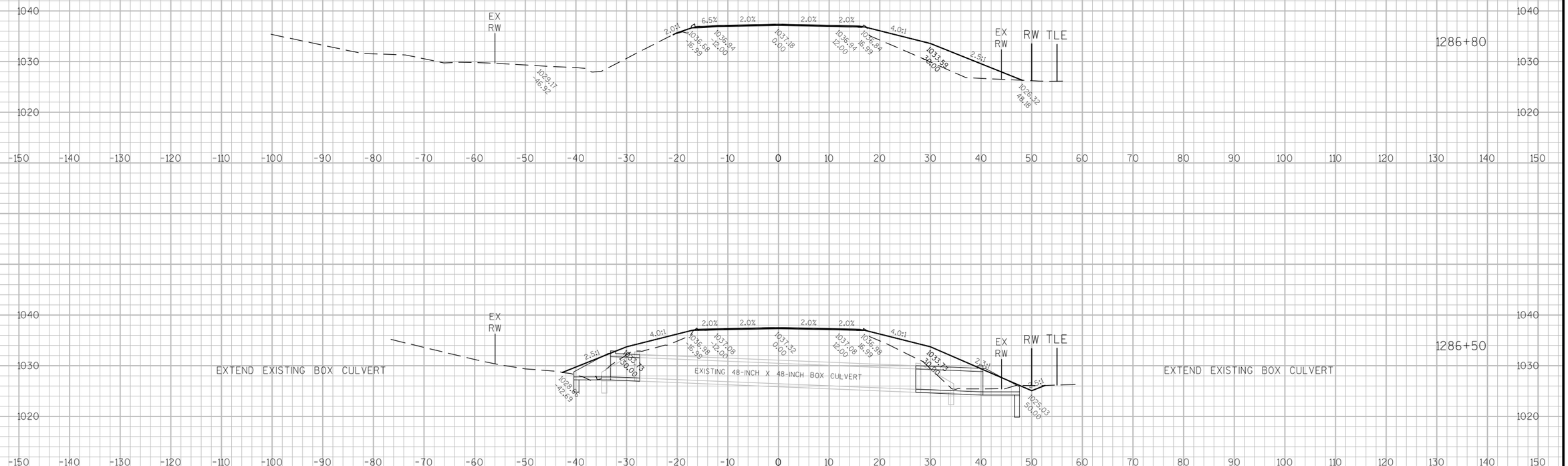
FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\DESIGN\CORRIDORS\CORRIDORS-BEAMGUARD AREA IMPROVEMENTS.DWG PLOT DATE : 6/29/2018 1:04 PM
LAYOUT NAME - 090226
PLOT BY : ANDY BLOCK
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 242 E

FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\DESIGN\CORRIDORS\CORRIDORS-BEAMGUARD AREA IMPROVEMENTS.DWG PLOT DATE : 6/29/2018 1:04 PM PLOT BY : ANDY BLOCK PLOT NAME : PLOT SCALE : 1 IN:20 FT
LAYOUT NAME - 090227

WISDOT/CADDS SHEET 49

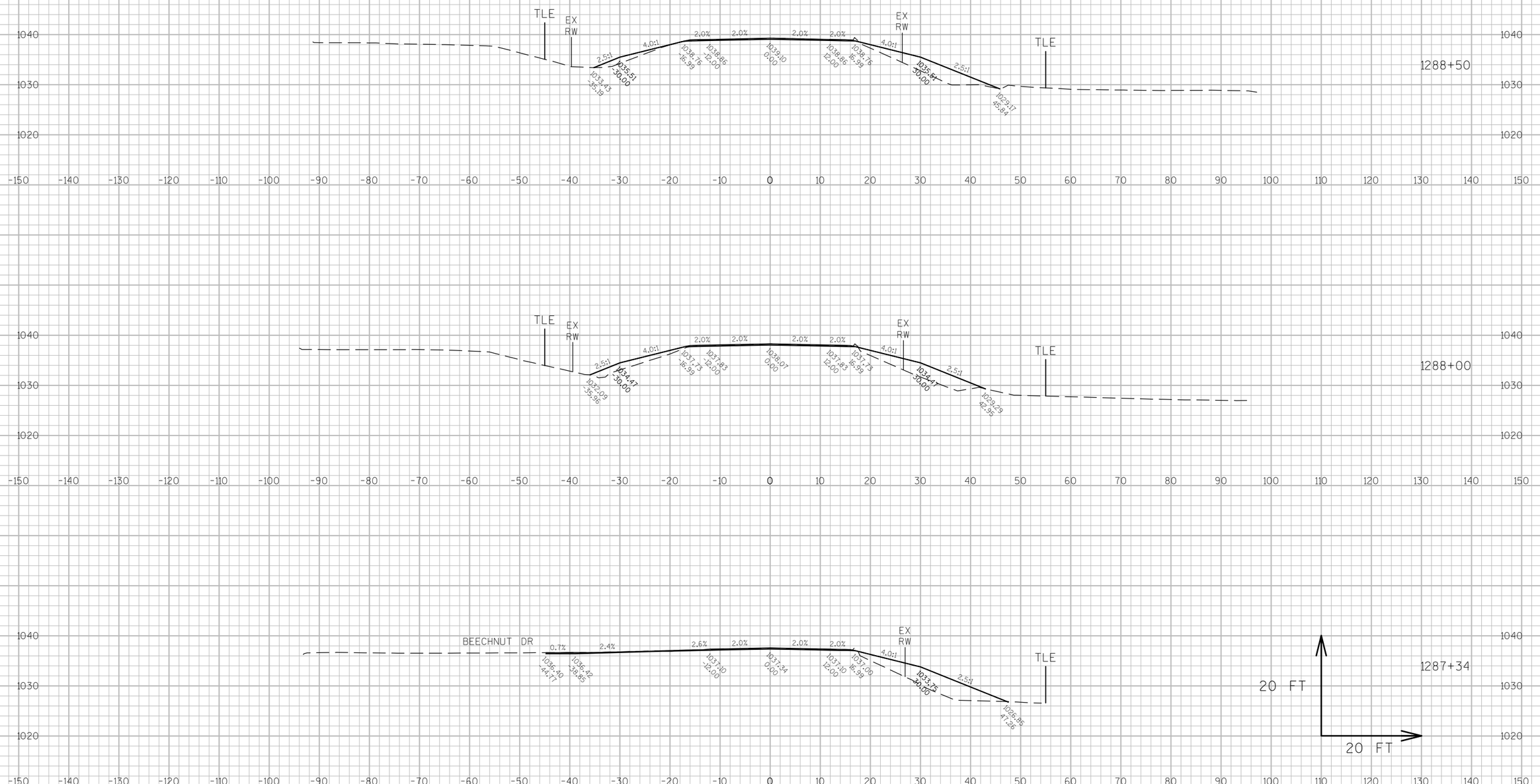


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PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 243	E

FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\DESIGN\CORRIDORS\CORRIDORS-BEAMGUARD AREA IMPROVEMENTS.DWG PLOT DATE : 6/29/2018 1:04 PM
LAYOUT NAME - 090228
PLOT BY : ANDY BLOCK
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49

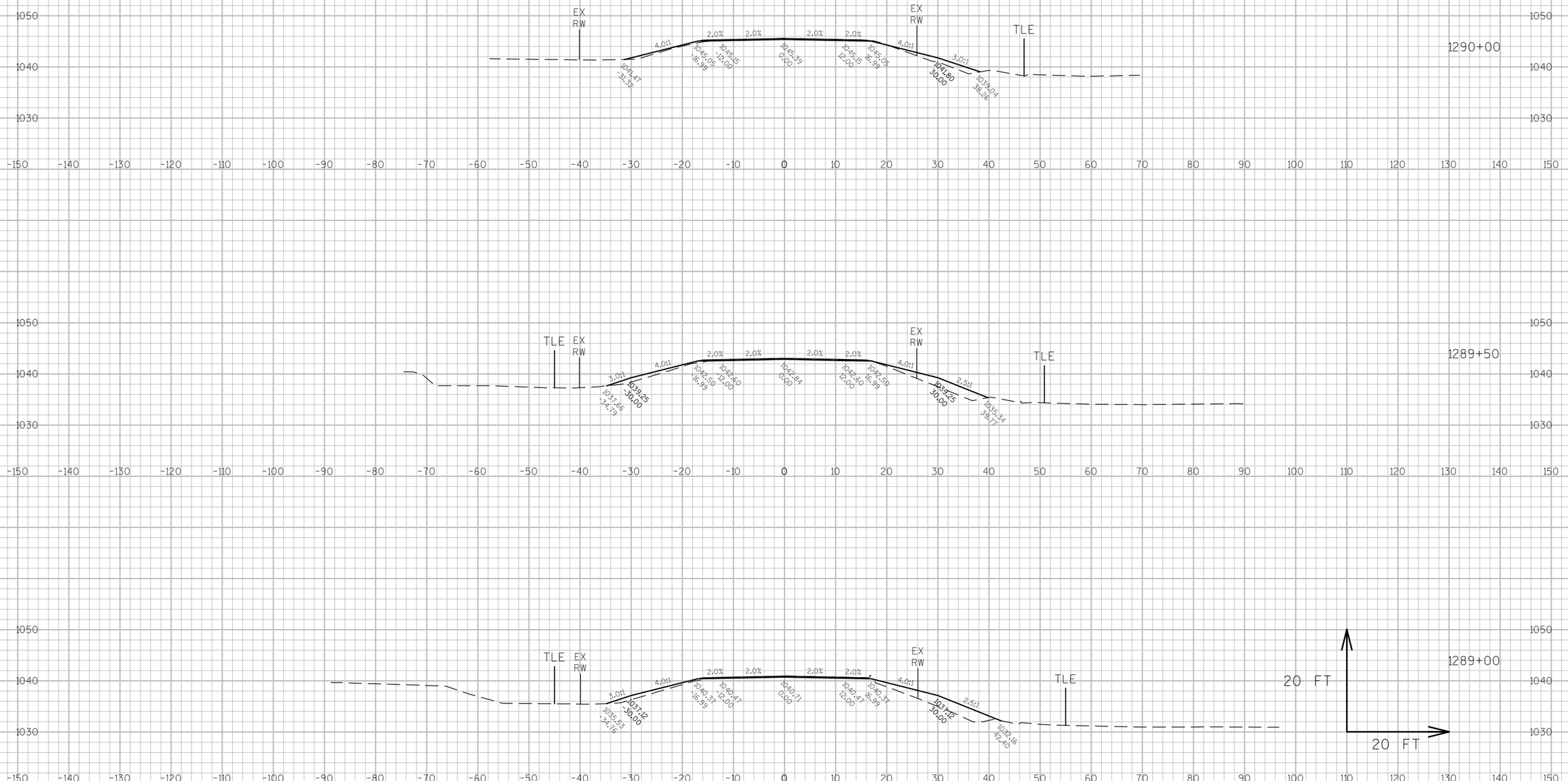


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9

PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 244 E

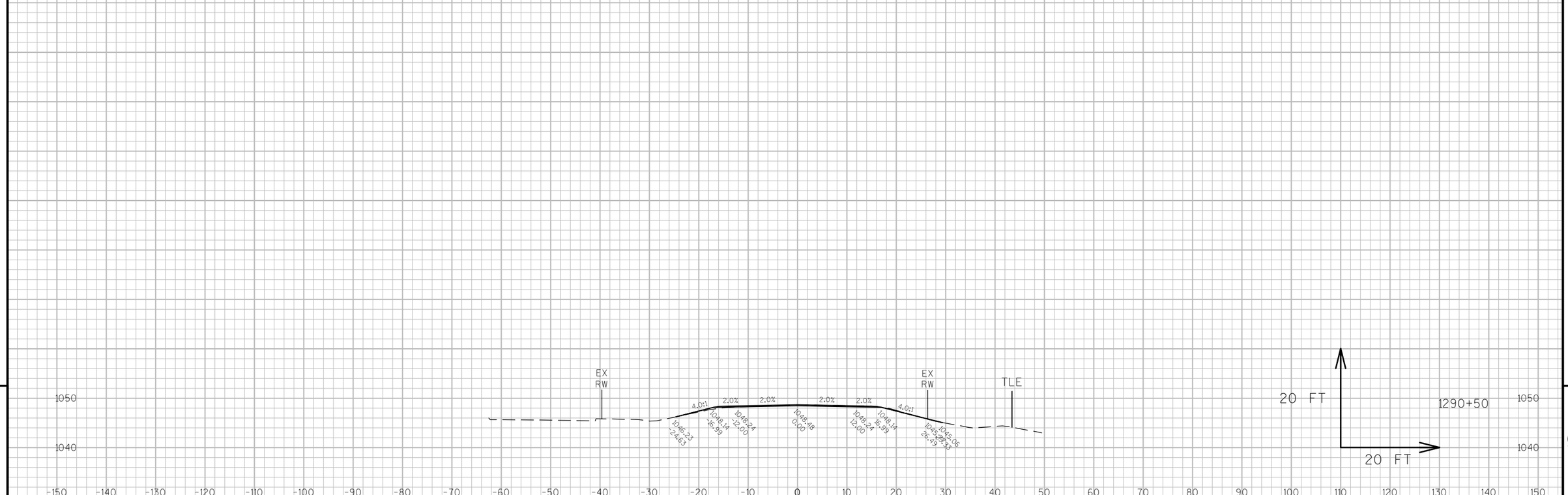
FILE NAME : X:\PROJECTS\FOND DU LAC\4090 STH 67\4090-07-00 STH 67\DESIGN\C3D\DESIGN\CORRIDORS\CORRIDORS-BEAMGUARD AREA IMPROVEMENTS.DWG PLOT DATE : 6/29/2018 1:05 PM
LAYOUT NAME - 090229
PLOT BY : ANDY BLOCK
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 245	E



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9

PROJECT NO: 4090-07-71	HWY: STH 67	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 67	SHEET 246	E

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

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