gre

November 2024

PROJECT ID: 4679-02-71

WITH: N/A

COUNTY: OUTAGAMIE

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 = 260

29

DESIGN DESIGNATION

A.A.D.T.	2025	=	2,400
A.A.D.T.	2045	=	3,500
D.H.V.		=	450
D.D.		=	62/38
T		=	18.3%
DESIGN SPEED		=	60 MPH
ESALS		=	730,000

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

BUCHANAN - EAST COUNTY LINE

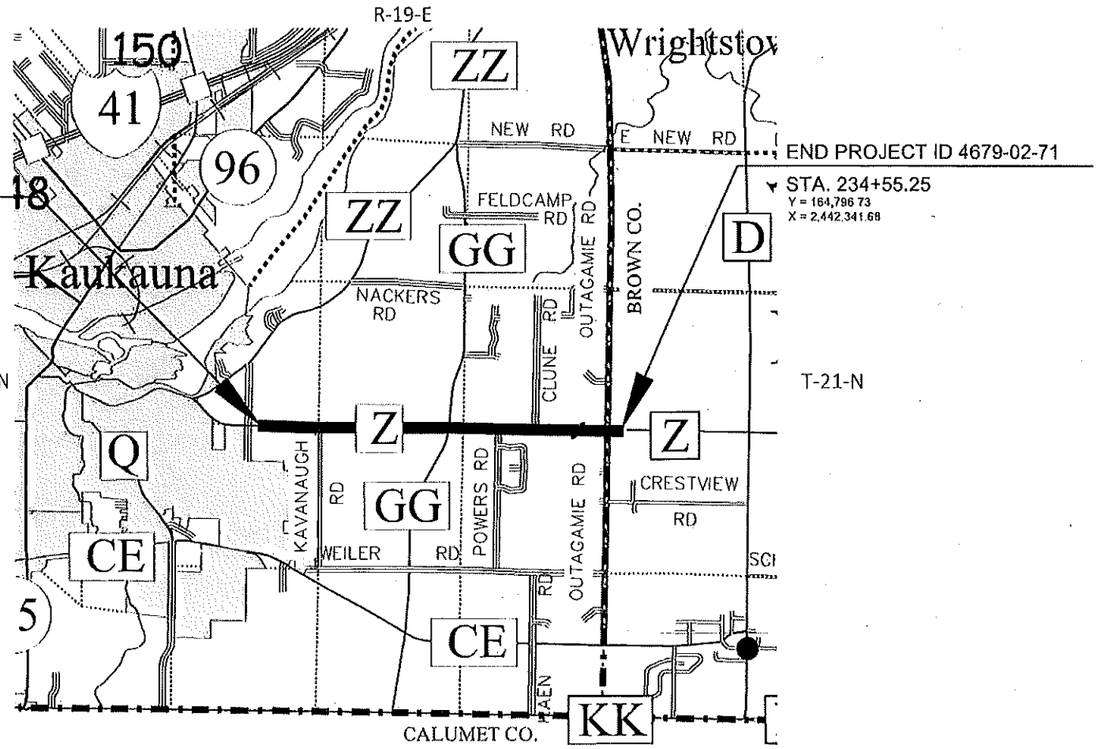
CTH ZZ TO OUTAGAMIE ROAD

CTH Z

OUTAGAMIE COUNTY

STATE PROJECT NUMBER
4679-02-71

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
4679-02-71	wisc 2025040	1



CONVENTIONAL SYMBOLS

COUNTY LINE		COMBUSTIBLE FLUIDS	CAUTION
CORPORATE LIMITS		UNDERGROUND UTILITIES GAS	(SIZE) G
PROPERTY LINE		SANITARY SEWER	(SIZE) SAN
LIMITED EASEMENT		STORM SEWER	(SIZE) SS
EXISTING RIGHT OF WAY		WATER	(SIZE) W
PROPOSED OR NEW R/W LINE		ELECTRIC	E
FENCE		TELEPHONE	T
GUARD RAIL		FIBER OPTIC	FO
SLOPE INTERCEPT		CABLE TELEVISION	TV
ORIGINAL GROUND		FORCE MAIN	FM
MARSH OR ROCK PROFILE (To be noted as such)	ROCK	MANHOLE	MH
MARSH AREA		UTILITY PEDESTAL	
WOODED OR SHRUB AREA		FIBER OPTIC HAND HOLE	HH
STREAM OR WATER EDGE		POWER POLE	
BUSH		TELEPHONE POLE	
PINE TREE	(SIZE)	RAILROAD	
TREE	(SIZE)	HYDRANT	
TRAFFIC SIGNAL CONTROL CABINET		LIGHT POLE	
TRAFFIC SIGNAL		RAILROAD SIGNAL	
TRAFFIC SIGNAL MAST-ARM		SIGN	
TRAFFIC SIGNAL WITH LIGHT		TRANSMISSION TOWER	
EXISTING PULL BOX		VALVE	(TYPE)
BOLLARD		CURB STOP	CS
		EXISTING CULVERT	(SIZE, TYPE)
		PROPOSED CULVERT (Box or Pipe)	

LAYOUT

SCALE 0 1 MI

TOTAL NET LENGTH OF CENTERLINE = 2.436 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN STATE COORDINATE SYSTEM, CENTRAL ZONE, NAD83 (2011), IN U.S. SURVEY FEET. TO CONVERT GRID COORDINATES TO GROUND COORDINATES, MULTIPLY GROUND BY COMBINATION FACTOR OF 0.99996944.

ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A

ACCEPTED FOR

COUNTY of OUTAGAMIE

7/10/2024 (Date)

(Signature & Title of Official)

HIGHWAY COMMISSIONER

ORIGINAL PLANS PREPARED BY

raSmith

CREATIVITY BEYOND ENGINEERING

rasmith.com

WISCONSIN BRAD E. SEVERSON E-37958 APPLETON WI PROFESSIONAL ENGINEER

07/03/2024 (Date)

(Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	raSmith
Designer	raSmith
Project Manager	MICHAEL COHEN
Regional Engineer	
Regional Surveyor	BRIAN LUWARUS

APPROVED FOR THE DEPARTMENT

DATE 7/10/24 (Signature)

E

FILE NAME : K:\1201708\CIVIL3D\4679020O\SHEETSPLAN\010101-TI.DWG PLOT DATE 7/10/2024 2:16 PM PLOT BY : SIEBERT, LUKE PLOT NAME :

2

UTILITIES CONTACTS

ANR PIPELINE COMPANY - GAS
MICHAEL REIF
N4956 OAKCREST DRIVE
BONDUEL, WI 54107
(920) 634-7497
MICHAEL_REIF@TCENERGY.COM

AT&T WISCONSIN- COMMUNICATION
KYLE WEBER
221 W WASHINGTON ST
APPLETON, WI 54911
(920) 221-5969
KW715W@ATT.COM

BUG TUSSEL - COMMUNICATION
DUSTIN TEAFF
1262 CAMBER CT
DE PERE, WI 54115
(920) 254-3539
DUSTIN.TEAFF@KESEXCAVATING.COM

KAUKAUNA UTILITIES - ELECTRICITY
RICH SORENSON
777 ISLAND ST, PO BOX 1777
KAUKAUNA, WI 54130-7077
(920) 462-0260
RSORENSON@KU-WI.ORG

OUTAGAMIE COUNTY LAND CONSERVATION - ELECTRICITY
JEREMY FREUND
3365 W. BREWSTER ST
APPLETON, WI 54914
(920) 832-5076
JEREMY.FREUND@OUTAGAMIE.ORG

SPECTRUM - COMMUNICATION
JODY THIEL
3520 E DESTINATION DR
APPLETON, WI 54915
(920) 831-9258
JODY.THIEL@CHARTER.COM

WISCONSIN PUBLIC SERVICE CORPORATION - ELECTRICITY
RYAN VOSKUIL
P.O. BOX 19001
GREEN BAY, WI 54307-9001
(920) 655-1584
RYAN.VOSKUIL@WISCONSINPUBLICSERVICE.COM

GENERAL NOTES

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. COORDINATE CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.
2. SAWCUTS, AS SHOWN ON THE PLANS, ARE SUGGESTED LOCATIONS AND MAY BE ADJUSTED AT THE DISCRETION OF THE ENGINEER TO BETTER SUIT FIELD CONDITIONS.
3. PLACE EROSION CONTROL DEVICES IN SEQUENCE WITH CONSTRUCTION OPERATIONS AND WHAT IS SHOWN ON THE EROSION CONTROL PLAN OR AS DETERMINED BY THE ENGINEER.
4. NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.
5. EXCAVATION BELOW SUBGRADE (EBS) SHALL BE MEASURED AS EXCAVATION COMMON. THE LOCATIONS FOR EBS WILL BE DETERMINED BY THE ENGINEER.
6. WHEN THE QUANTITY OF BASE AGGREGATE DENSE 1 1/4-INCH OR 3/4-INCH IS MEASURED FOR PAYMENT BY THE TON, THE THICKNESS AS SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION AS DIRECTED BY THE ENGINEER.
7. PRIOR TO ORDERING DRAINAGE PIPES AND STRUCTURES, THE CONTRACTOR WILL VERIFY RELATED DRAINAGE INFORMATION IN THE PLAN WITH THE ENGINEER.
8. EXACT LOCATIONS AND WIDTHS OF PRIVATE AND COMMERCIAL ENTRANCES WILL BE DETERMINED BY THE ENGINEER. REPLACE PRIVATE AND COMMERCIAL ENTRANCES IN-KIND UNLESS OTHERWISE DIRECTED BY THE ENGINEER. BASE AGGREGATE DENSE 1 1/4-INCH WILL BE USED AS BASE FOR ALL PAVED PRIVATE AND COMMERCIAL ENTRANCES.
9. ADJUST TRAFFIC CONTROL DEVICES TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. NO WORK SHALL BEGIN UNTIL PROPER TRAFFIC CONTROL DEVICES ARE IN PLACE AND APPROVED BY THE ENGINEER.
10. CURB & GUTTER ELEVATIONS, RADIUS POINTS, AND START/END STATION OFFSETS ARE SHOWN AT THE FLANGE LINE UNLESS NOTED OTHERWISE.

DESIGN CONSULTANT

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BRAD SEVERSON
100 WEST LAWRENCE STREET, SUITE 412
APPLETON, WI 54911-5754
(920) 843-5738
BRAD.SEVERSON@RASMITH.COM

WDNR LIASON

DNR NORTHEAST REGIONAL HQ
MATT SCHAEVE
2984 SHAWANO AVENUE
GREEN BAY, WI 54313
(920) 366-1544
MATTHEW.SCHAEVE@WISCONSIN.GOV

PROJECT CONTACTS

WISDOT PROJECT MANAGER
MIKE COHEN
944 VANDERPERREN WAY
GREEN BAY, WI 54304-5344
(920) 492-4136
MICHAEL.COHEN@DOT.WI.GOV

OUTAGAMIE COUNTY HIGHWAY ENGINEER
JOE ZELLMER
1313 HOLLAND ROAD
APPLETON, WI 54911-8947
(920) 832-5673
JOSEPH.ZELLMER@OUTAGAMIE.ORG

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

ORDER OF SECTION 2 SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
PLAN DETAILS
EROSION CONTROL
PERMANENT SIGNING & REMOVALS
PAVEMENT MARKING
TRAFFIC CONTROL
DETOUR
ALIGNMENT

2

SOIL BORING SUMMARY
(APPROXIMATE LOCATIONS)

Point #	Raw Description	ALIGNMENT	OFFSET
5666	BORE/B-1	107+14	10' RT
20571	BORE/B-2	112+55	4' LT
20361	BORE/B-3	117+19	10' RT
20113	BORE/B-4	122+02	6' RT
6281	BORE/B-5	127+05	7' RT
6618	BORE/B-6	132+13	5' LT
6787	BORE/B-7	137+33	8' RT
7139	BORE/B-8	143+28	5' LT
60	BORE/B-101	145+38	7' LT
59	BORE/B-102	146+63	7' LT
7379	BORE/B-9	147+36	8' RT
61	BORE/B-103	148+72	7' LT
62	BORE/B-104	150+06	7' LT
63	BORE/B-105	151+39	7' LT
7918	BORE/B-10	152+39	7' LT
7971	BORE/B-11	157+22	7' RT
8269	BORE/B-12	162+01	6' LT
8536	BORE/B-13	167+48	8' RT
8980	BORE/B-15	177+65	2' RT
13359	BORE/B-18	191+67	5' LT
13508	BORE/B-19	197+11	11' RT
12322	BORE/B-20	202+37	3' LT
12004	BORE/B-21	207+54	10' RT
11830	BORE/B-22	212+27	4' LT
11397	BORE/B-23	216+68	9' RT
10932	BORE/B-24	221+99	5' LT
10735	BORE/B-25	228+36	6' LT
10510	BORE/B-26	231+58	8' RT

2

BEGIN CONSTRUCTION

BEGIN PROJECT ID 4679-02-71

STA. 105+93.71

Y = 164,694.57

X = 2,429,482.02

UNNAMED TRIBUTARY

TO THE FOX RIVER

CITY OF KAUKAUNA

HAAS RD

CTH ZZ

TOWN OF BUCHANAN

125+85

CATEGORY 0020 | CATEGORY 0010

WETLAND BOUNDARY

CTH Z R/L

CTH Z

105 110 115 120 125 130 135 140 145 150 155 160 165 17

MATCHLINE STA 170+00

N

ONE-WAY STOP CONTROLLED ON SIDE ROAD

KAVANAUGH RD R/L

KAVANAUGH RD 302'KV' 304'KV'

TOWN OF BUCHANAN

MATCHLINE STA 170+00

PLUM CREEK

N MILITARY RD R/L

TWO-WAY STOP CONTROLLED

CTH GG 398'GG' 400'GG' 402'GG' 404'GG' 406'GG' 408'GG'

THE

TO

TRIBUTARY

UNNAMED

ONE-WAY STOP CONTROLLED ON SIDE ROAD

TOWN OF BUCHANAN

TO THE PLUM CREEK

POWERS RD 502'PW' 504'PW'

POWERS RD R/L

TRIBUTARY

UNNAMED

CLUNE RD 602'CN' 604'CN'

CLUNE RD R/L

ONE-WAY STOP CONTROLLED ON SIDE ROAD

UNNAMED TRIBUTARY

CTH Z R/L

CTH Z

175 180 185 190 195 200 205 210 215 220 225 230 235 240

WETLAND BOUNDARY

TO THE PLUM CREEK

OUTAGAMIE COUNTY 702'OG' 704'OG' 706'OG'

OUTAGAMIE RD

BROWN COUNTY

TOWN OF HOLLAND

OUTAGAMIE RD R/L

TWO-WAY STOP CONTROLLED

END CONSTRUCTION

TOWN OF HOLLAND

N

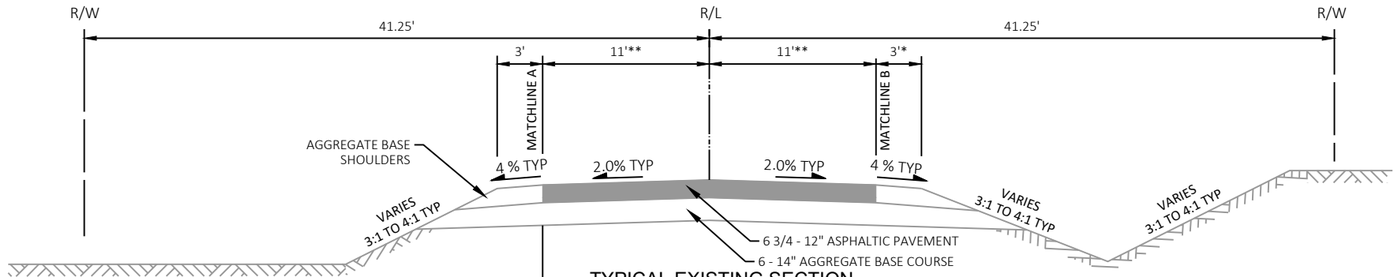
END PROJECT ID 4679-02-71

STA. 234+55.25

Y = 164,796.73

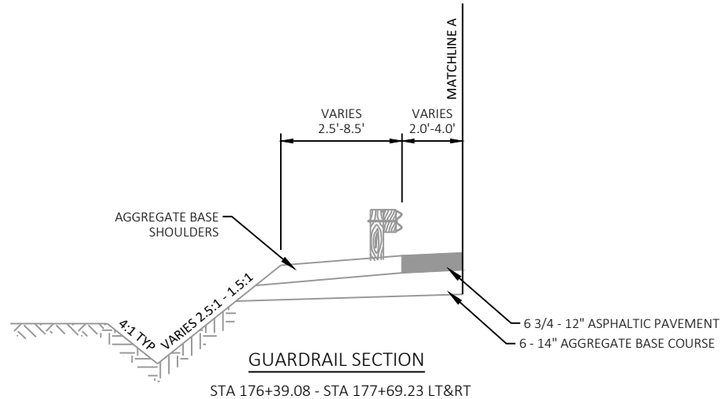
X = 2,442,341.68

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	PROJECT OVERVIEW	SHEET 3	E



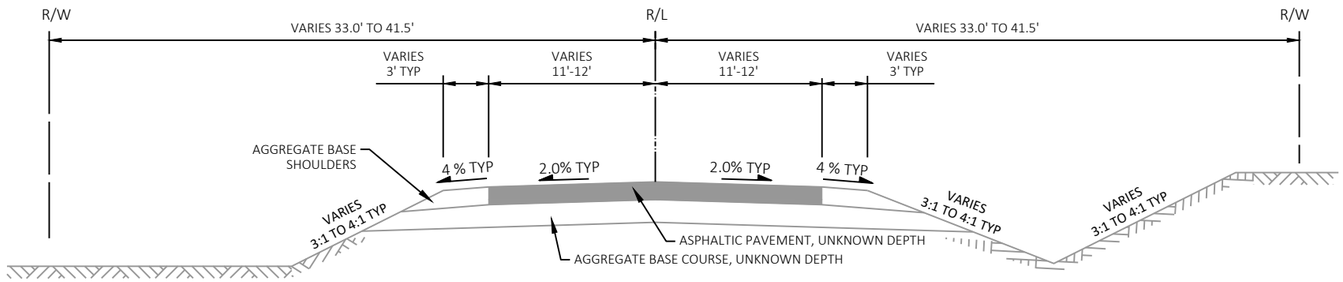
TYPICAL EXISTING SECTION
CTH Z

STA 105+93.71 - STA 234+55.25
* STA 101+50.00 - STA 105+93.71 RT - EXISTING GRAVEL SHOULDER IS 6' WIDE.
**STA 101+50.00 - STA 105+93.71 RT - EXISTING TRAVEL LANES ARE 12' WIDE.



GUARDRAIL SECTION

STA 176+39.08 - STA 177+69.23 LT&RT
STA 197+09.67 - STA 198+87.55 RT
STA 197+40.95 - STA 199+69.38 LT
MATCHLINE B IS MIRROR IMAGE



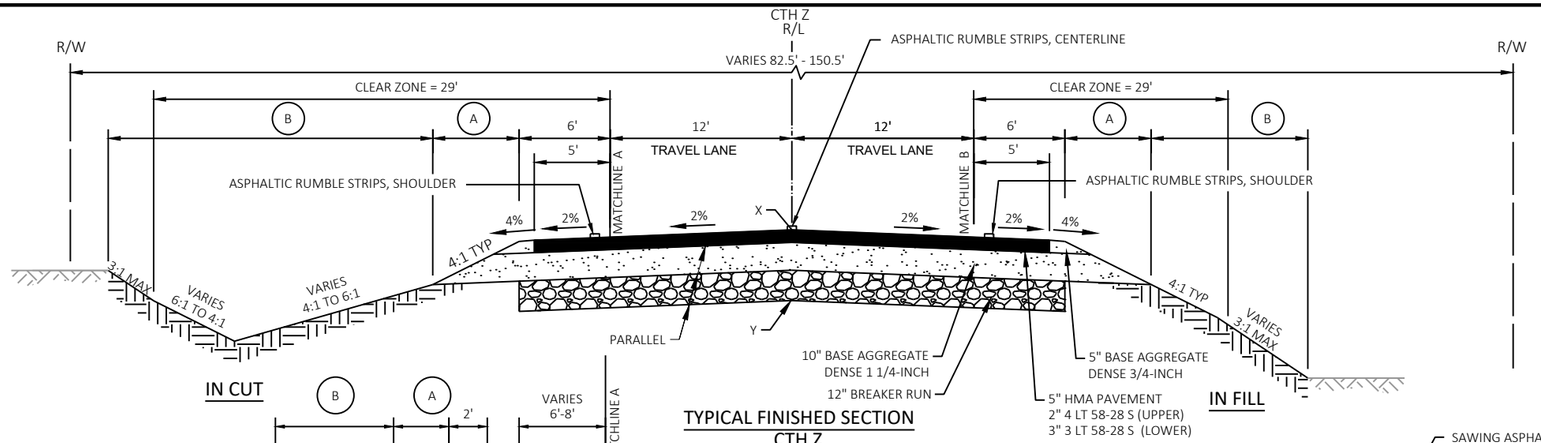
TYPICAL EXISTING SECTION
SIDEROADS

KAVANAUGH ROAD
POWERS ROAD
CLUNE ROAD
OUTAGAMIE ROAD

TYPICAL EXISTING SECTION
CTH GG

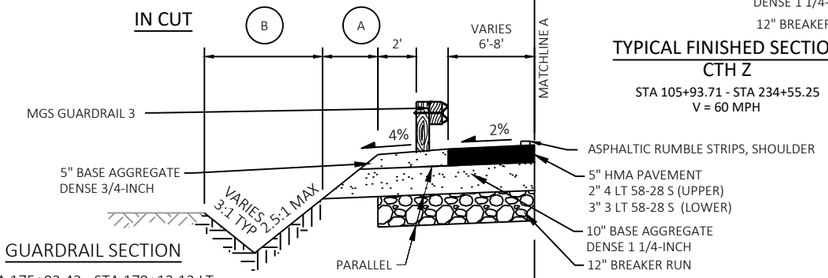
STA 403+85.43 - STA 408+34.72

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	TYPICAL SECTIONS	SHEET 4	E



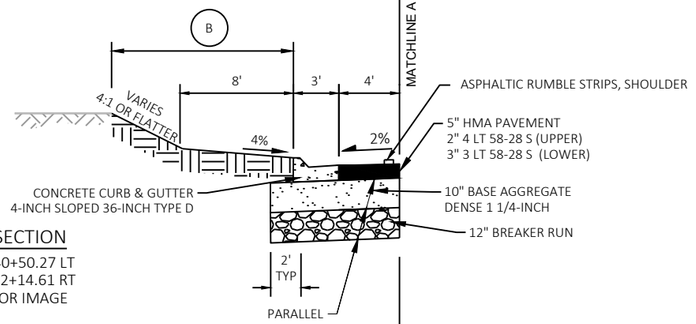
TYPICAL FINISHED SECTION
CTH Z

STA 105+93.71 - STA 234+55.25
V = 60 MPH



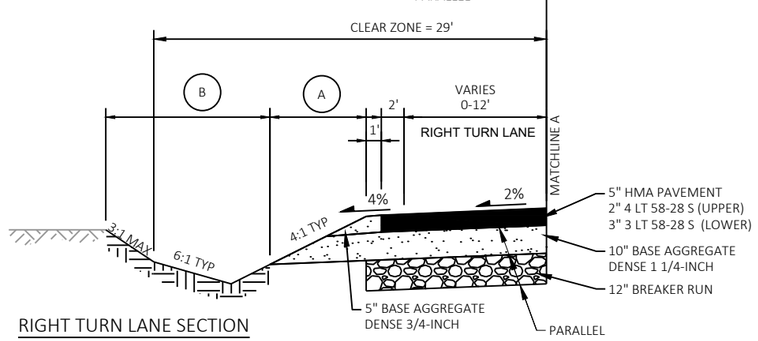
GUARDRAIL SECTION

STA 175+82.43 - STA 179+13.12 LT
STA 174+77.34 - STA 178+42.79 RT
MATCHLINE B IS MIRROR IMAGE



CURB & GUTTER SECTION

STA 138+28.56 - STA 140+50.27 LT
STA 140+00.00 - STA 142+14.61 RT
MATCHLINE B IS MIRROR IMAGE



RIGHT TURN LANE SECTION

STA 121+90.21 - STA 127+68.61 RT
STA 168+93.83 - STA 175+96.36 RT

STA 172+65.68 - STA 177+03.95 LT
STA 188+45.43 - STA 194+24.28 RT
STA 204+51.34 - STA 210+32.58 LT

STA 228+69.11 - STA 234+55.25 RT
STA 231+26.55 - STA 237+23.61 LT*

*STA 234+55.25 - STA 237+23.61 ONLY INCLUDES THE WEST BOUND RIGHT TURN LANE. NO MAINLINE WORK INCLUDED.
MATCHLINE B IS MIRROR IMAGE

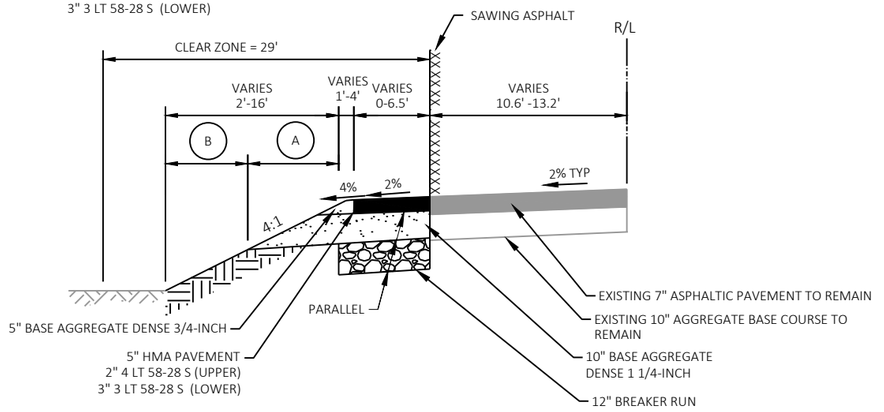
LEGEND

"X" = POINTS REFERRED TO ON PROFILE
"Y" = POINTS REFERRED TO ON CROSS SECTIONS

(A) SEEDING MIX NO. 30 AND FERTILIZER TYPE B

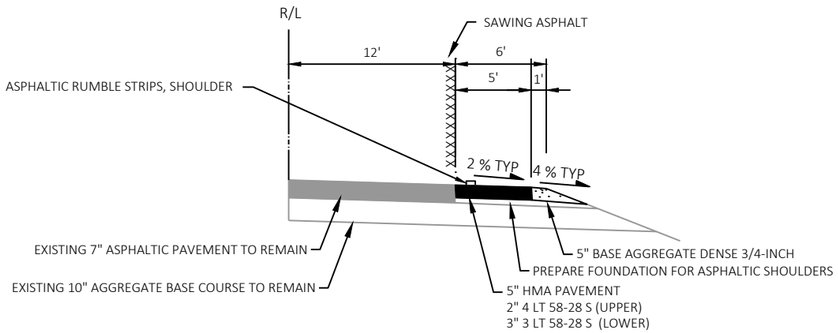
(B) SEEDING MIX NO. 30 OR 40, FERTILIZER TYPE B, SALVAGED TOPSOIL, AND MULCH OR EROSION MAT

USE SEEDING MIX NO. 40 AT THE SAME LOCATIONS AS EROSION MAT URBAN CLASS I TYPE B, OTHERWISE, USE SEEDING MIX NO. 30.



TYPICAL FINISHED SECTION
CTH Z
SHOULDER WIDENING ONLY

STA 105+04.84 - STA 105+93.71 LT



TYPICAL FINISHED SECTION
CTH Z
ADDING PAVED SHOULDER ONLY

STA 101+50.00 - STA 105+93.71 RT

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	TYPICAL SECTIONS	SHEET 5	E

2

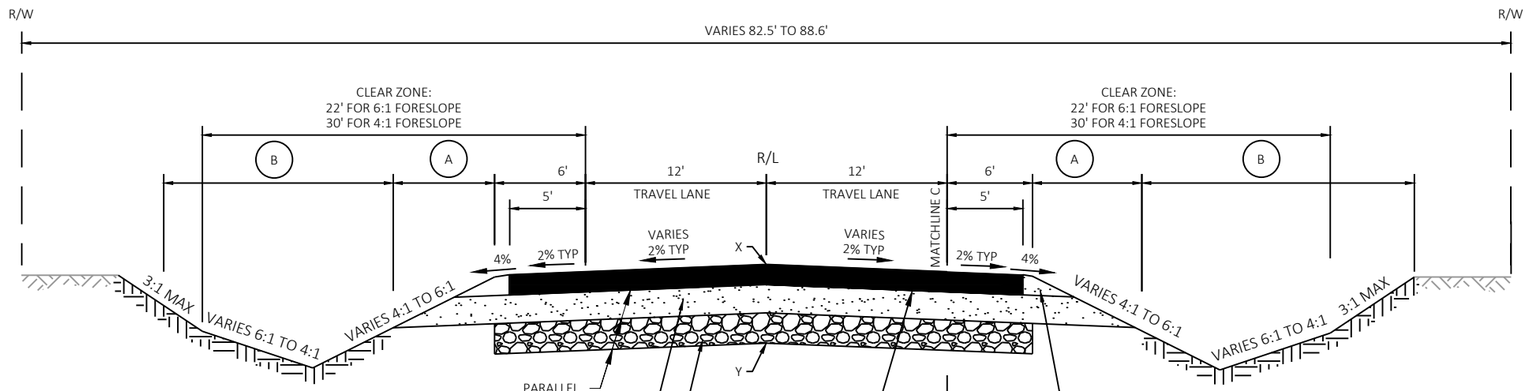
LEGEND

"X" = POINTS REFERRED TO ON PROFILE
"Y" = POINTS REFERRED TO ON CROSS SECTIONS

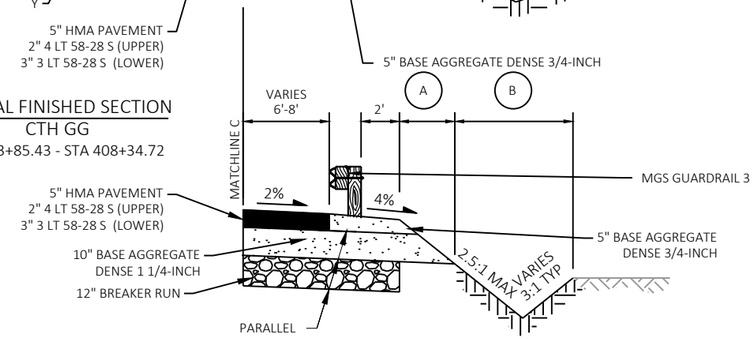
(A) SEEDING MIX NO. 30 AND FERTILIZER TYPE B

(B) SEEDING MIX NO. 30 OR 40, FERTILIZER TYPE B, SALVAGED TOPSOIL, AND MULCH OR EROSION MAT

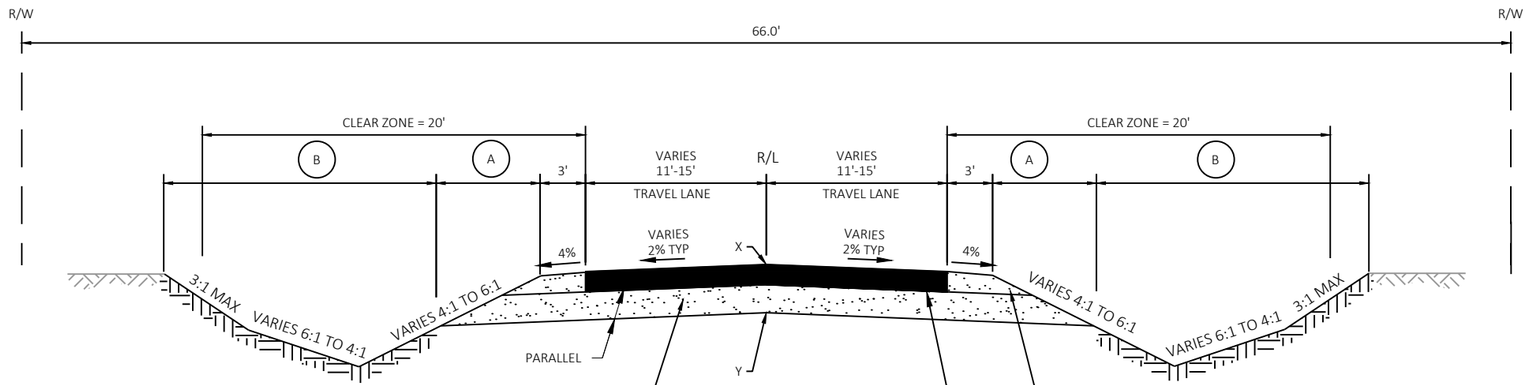
USE SEEDING MIX NO. 40 AT THE SAME LOCATIONS AS EROSION MAT URBAN CLASS I TYPE B, OTHERWISE, USE SEEDING MIX NO. 30.



TYPICAL FINISHED SECTION
CTH GG
STA 403+85.43 - STA 408+34.72



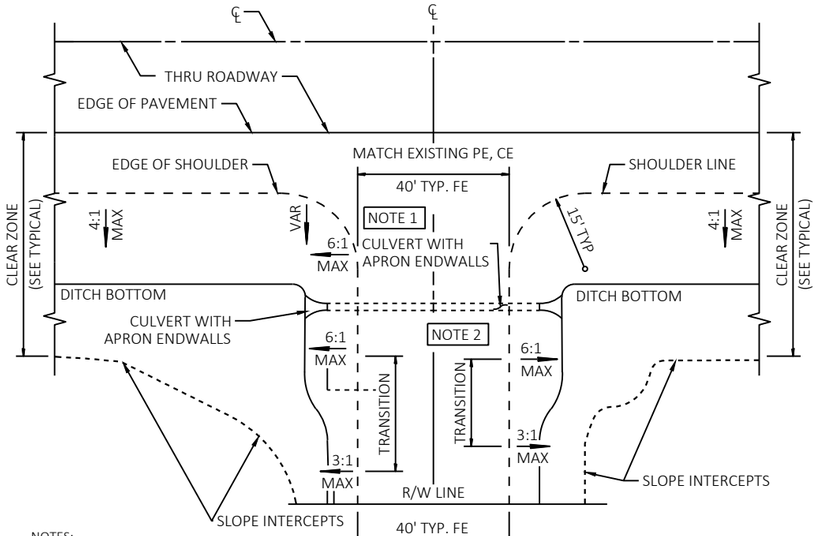
GUARDRAIL SECTION
STA 404+75.69 - STA 405+53.07 RT



TYPICAL FINISHED SECTION
SIDEROADS

KAVANAUGH ROAD
POWERS ROAD
CLUNE ROAD
OUTAGAMIE ROAD

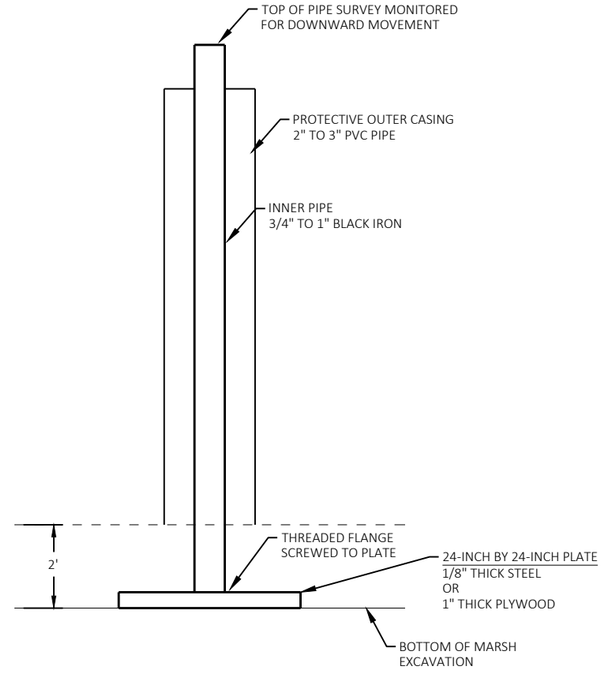
PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	TYPICAL SECTIONS	SHEET 6	E



PLAN VIEW

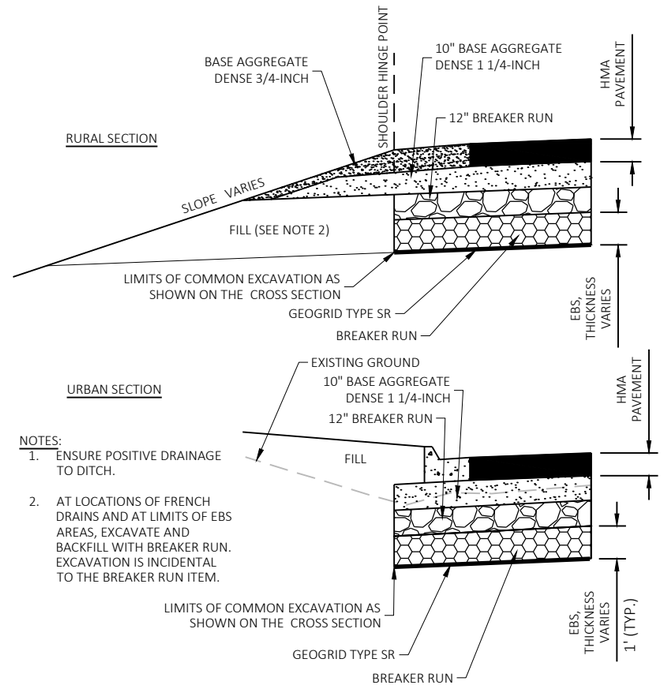
NOTES:
1. BLEND 6:1 SLOPES TO MATCH APRON ENDWALLS.
2. REPLACE DRIVEWAYS WITH IN-KIND MATERIAL:
   ASPHALT
   3" ASPHALTIC SURFACE DRIVEWAY AND FIELD ENTRANCES ON 6" BASE AGGREGATE DENSE 1 1/4-INCH
   GRAVEL
   6" BASE AGGREGATE DENSE 3/4-INCH

RURAL DRIVEWAY GRADING AND/OR PAVING DETAIL



SETTLEMENT GAUGE DETAIL

STA 147+50 - STA 150+50
NOT TO SCALE

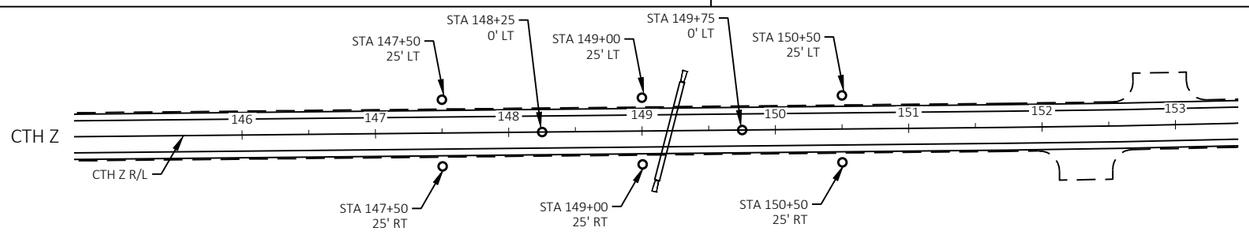


NOTES:
1. ENSURE POSITIVE DRAINAGE TO DITCH.
2. AT LOCATIONS OF FRENCH DRAINS AND AT LIMITS OF EBS AREAS, EXCAVATE AND BACKFILL WITH BREAKER RUN. EXCAVATION IS INCIDENTAL TO THE BREAKER RUN ITEM.

EXCAVATION BELOW SUBGRADE

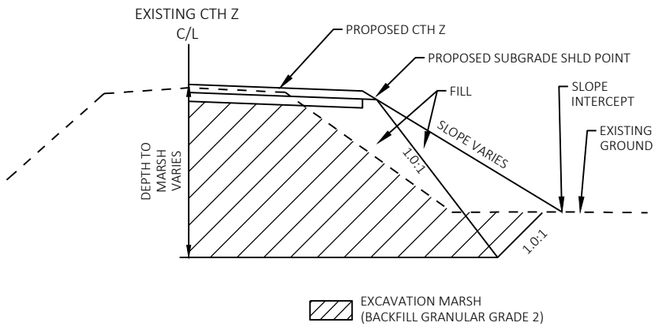
109+70 - 119+20 180+00 - 186+00
152+00 - 156+00 224+50 - 234+55
160+50 - 170+00

AND AS DIRECTED BY THE ENGINEER



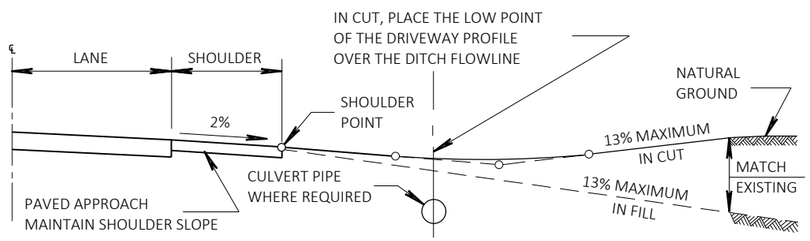
SETTLEMENT GAUGE LOCATION

STA 147+50 - STA 150+50
NOT TO SCALE



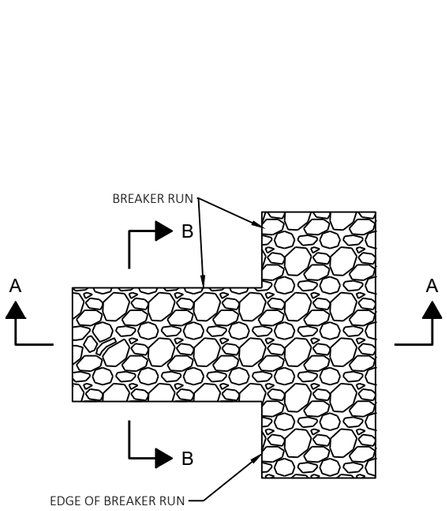
MARSH EXCAVATION DETAIL

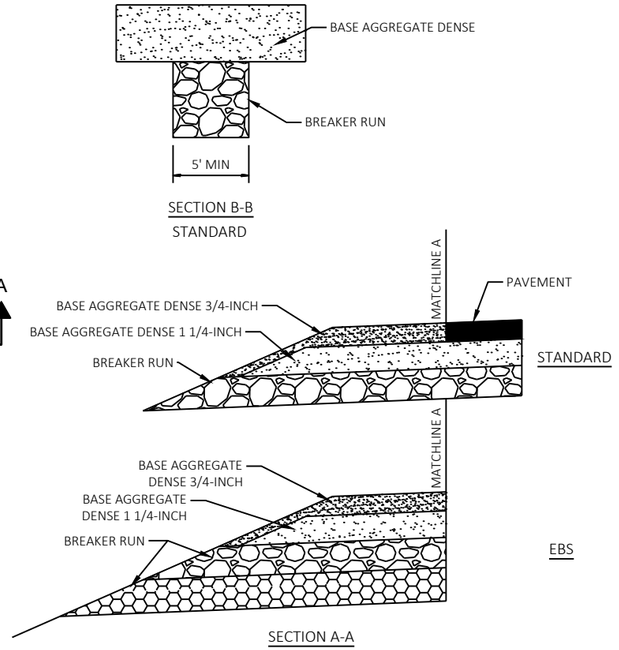
STA 146+00 - STA 152+00



TYPICAL DRIVEWAY PROFILES

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CONSTRUCTION DETAILS	SHEET 7	E

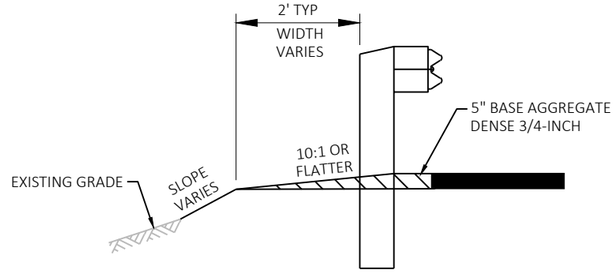


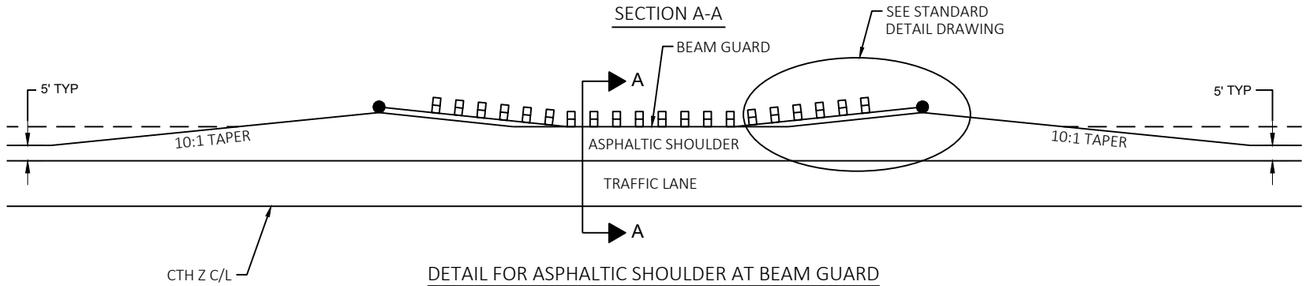


NOTES
1. DRAINS ARE TO BE CONSTRUCTED AT LEAST EVERY 250' AND AT EACH SAG VERTICAL CURVE IN THE PROFILE AND AS DIRECTED BY THE ENGINEER.
2. ENGINEER MAY ADJUST EXACT LOCATIONS AS FIELD CONDITIONS DICTATE.
3. EXCAVATION REQUIRED TO CONSTRUCT FRENCH DRAINS SHALL BE CONSIDERED INCIDENTAL TO THE BREAKER RUN ITEM.

DETAIL FOR FRENCH DRAINS

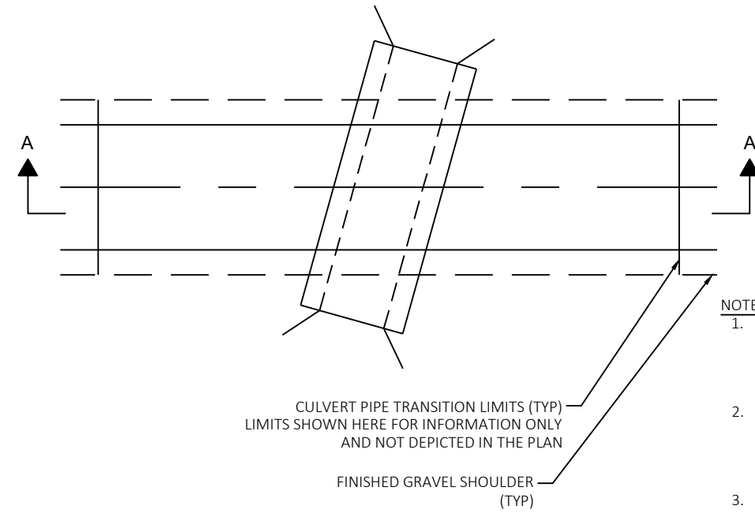
107+17	122+15	137+15	150+80	162+15	179+55	196+85	210+05	224+15
109+67	124+65	139+65	152+15	164+65	181+85	199+35	212+55	226+65
112+17	127+15	142+15	154+65	167+15	184+35	201+85	214+80	229+15
114+67	129+65	144+65	157+15	169+65	186+85	204+35	216+80	231+65
117+17	132+15	147+15	159+65	172+15	189+35	205+50	219+25	
119+67	134+65	149+65	161+05	177+05	194+35	207+55	221+65	



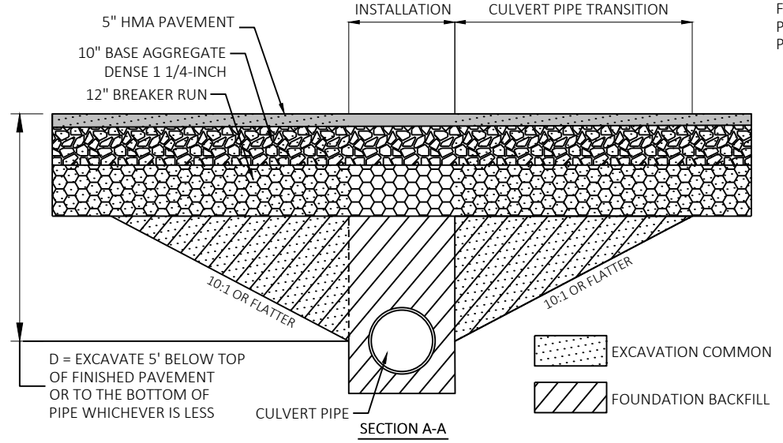


DETAIL FOR ASPHALTIC SHOULDER AT BEAM GUARD

SEE PLAN DETAILS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION



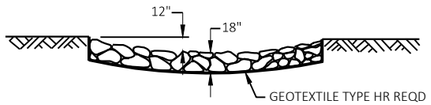
NOTES:
1. PIPE INSTALLATION AREA WILL FOLLOW STANDARD SPEC 520 FOR INSTALLATION, WIDTHS AND PAYMENT.
2. CULVERT PIPE TRANSITION AREAS WILL BE PAID BY EXCAVATION COMMON AND FOUNDATION BACKFILL.
3. SHALLOW CULVERT PIPE DEFINED AS 4-FT OR LESS FROM TOP OF OUTSIDE OF PIPE TO TOP OF FINISHED PAVEMENT.



SHALLOW CULVERT PIPE TRANSITION DETAIL

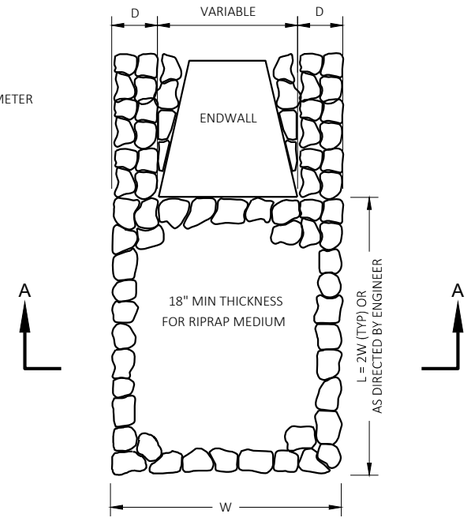
STA 109+56
STA 122+32
STA 173+31
STA 213+47
STA 233+34

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CONSTRUCTION DETAILS	SHEET 8	E



SECTION A-A

D = PIPE DIAMETER



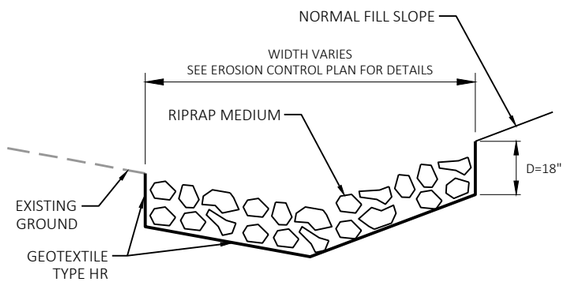
RIPRAP MEDIUM TREATMENT AT CULVERTS

SEE EROSION CONTROL PLAN FOR LOCATIONS

RUNOFF COEFFICIENT TABLE

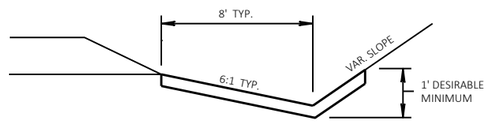
	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33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

TOTAL PROJECT AREA = 30 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 27 ACRES

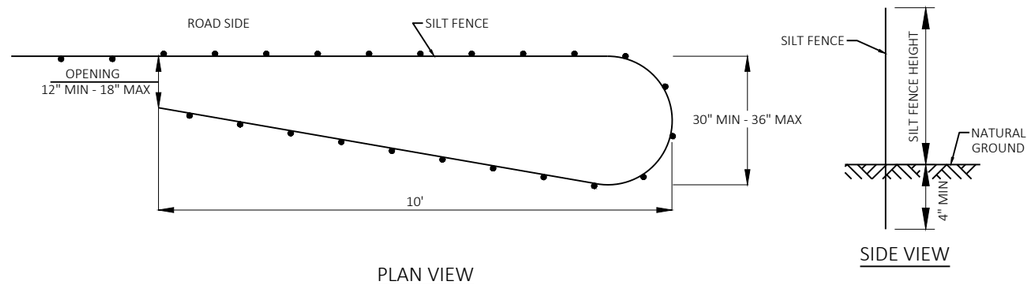


RIPRAP DITCH DETAIL

SEE EROSION CONTROL PLAN FOR LOCATIONS



EROSION MAT DETAIL FOR DITCHES



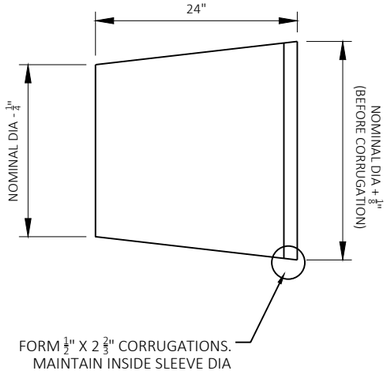
PLAN VIEW

SIDE VIEW

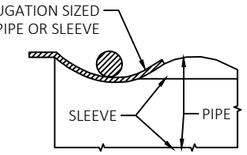
SILT FENCE TURN-AROUND DETAIL

SILT FENCE POSTS FOR THE TURN-AROUND SHOULD BE ON THE OUTSIDE OF THE TURN-AROUND.

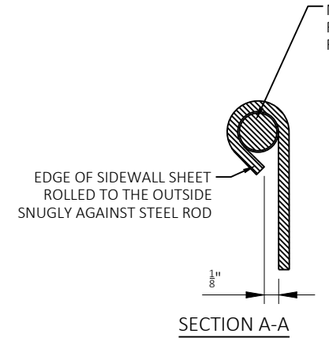
DIMENSIONS									
INCHES		MIN. THICK.		INCHES					SLOPE
SPAN	RISE	IN.	GAGE	A	H	W	TOTAL WIDTH	L	
76	48	0.109	12	16	12	80	112	152	4:1



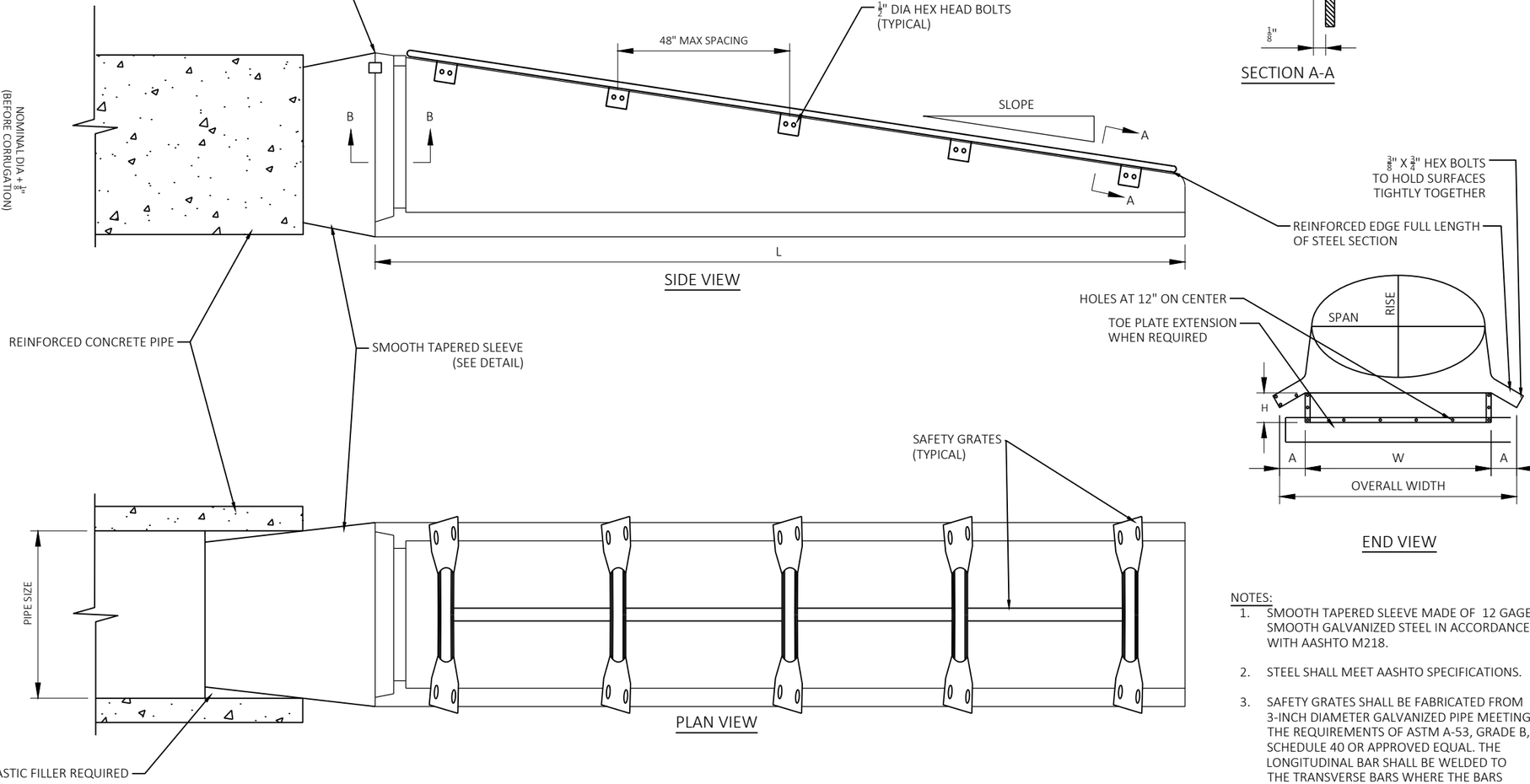
SMOOTH TAPERED SLEEVE DETAIL



SECTION B-B



SECTION A-A



SIDE VIEW

PLAN VIEW

END VIEW

NOTES:

1. SMOOTH TAPERED SLEEVE MADE OF 12 GAGE SMOOTH GALVANIZED STEEL IN ACCORDANCE WITH AASHTO M218.
2. STEEL SHALL MEET AASHTO SPECIFICATIONS.
3. SAFETY GRATES SHALL BE FABRICATED FROM 3-INCH DIAMETER GALVANIZED PIPE MEETING THE REQUIREMENTS OF ASTM A-53, GRADE B, SCHEDULE 40 OR APPROVED EQUAL. THE LONGITUDINAL BAR SHALL BE WELDED TO THE TRANSVERSE BARS WHERE THE BARS CROSS. THE NUMBER OF TRANSVERSE BARS REQUIRED WILL VARY DEPENDING ON THE LENGTH OF THE END SECTION.
4. TOE PLATE IS 8" HIGH.
5. TOE PLATE OVERLAP IS 2".
6. SEE SDD FOR STEEL APRON ENDWALLS FOR CULVERT PIPE ARCH SLOPED CROSS DRAINS FOR ADDITIONAL INFORMATION.

APRON ENDWALLS FOR CULVERT PIPE SLOPED CROSS DRAINS STEEL 48x76-INCH 4 TO 1

STA 213+50 LT
STA 213+50 RT

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CONSTRUCTION DETAILS	SHEET 10	E

NOTES:
PLAN DETAILS ONLY PROVIDED AT INTERSECTIONS, GUARDRAIL AND AREAS OF RURAL CURB & GUTTER.

ALL AREAS NOT SHOWN ARE CONSIDERED TYPICAL.

SEE PLAN AND PROFILES FOR DRIVEWAY INFORMATION.

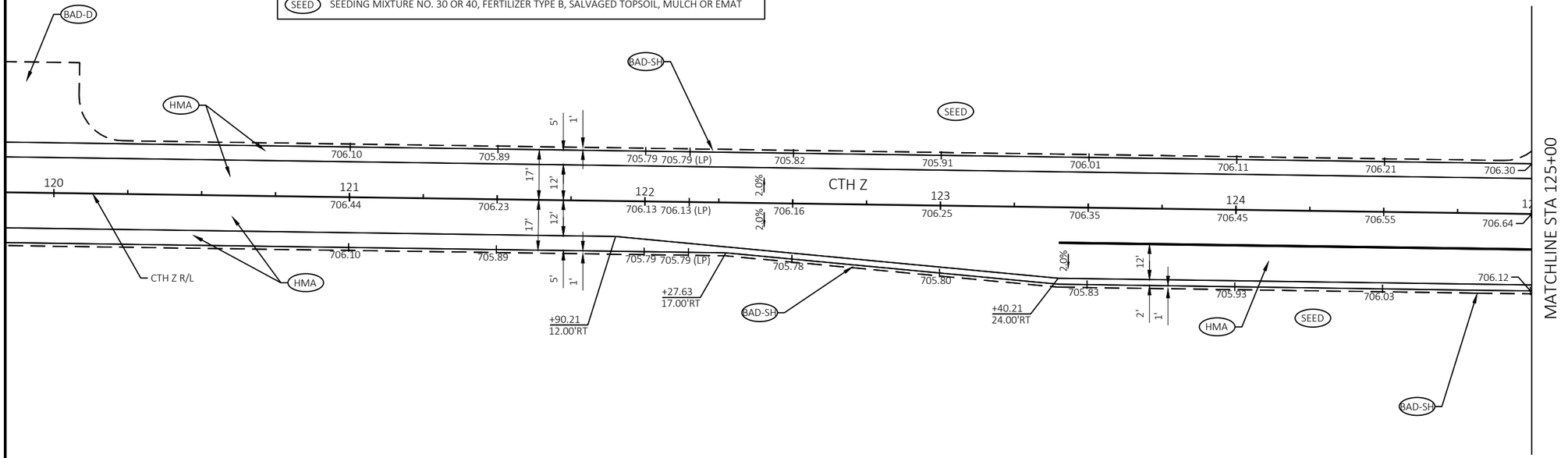
LEGEND 1

AD	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
AF	ASPHALTIC FLUME
BAD-D	BASE AGGREGATE DENSE 3/4-INCH- DRIVEWAY
BAD-SH	BASE AGGREGATE DENSE 3/4-INCH- SHOULDER
CG36-4	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
CG36-6	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG-CUT	DRIVEWAY CUT CURB
HMA	HMA PAVEMENT 5"
MGS	MGS GUARDRAIL 3
MGS-E	MGS GUARDRAIL TERMINAL EAT
MGS-R	MGS GUARDRAIL SHORT RADIUS
SAW	SAWING ASPHALT
SEED	SEEDING MIXTURE NO. 30 OR 40, FERTILIZER TYPE B, SALVAGED TOPSOIL, MULCH OR EMAT

LEGEND 2

(#)	STATION & OFFSET POINT NUMBER
XXX.XX	PAVING GRADE
(LP)	LOW POINT
(HP)	HIGH POINT
(E)	EXISTING
(G)	GUTTER GRADE

N



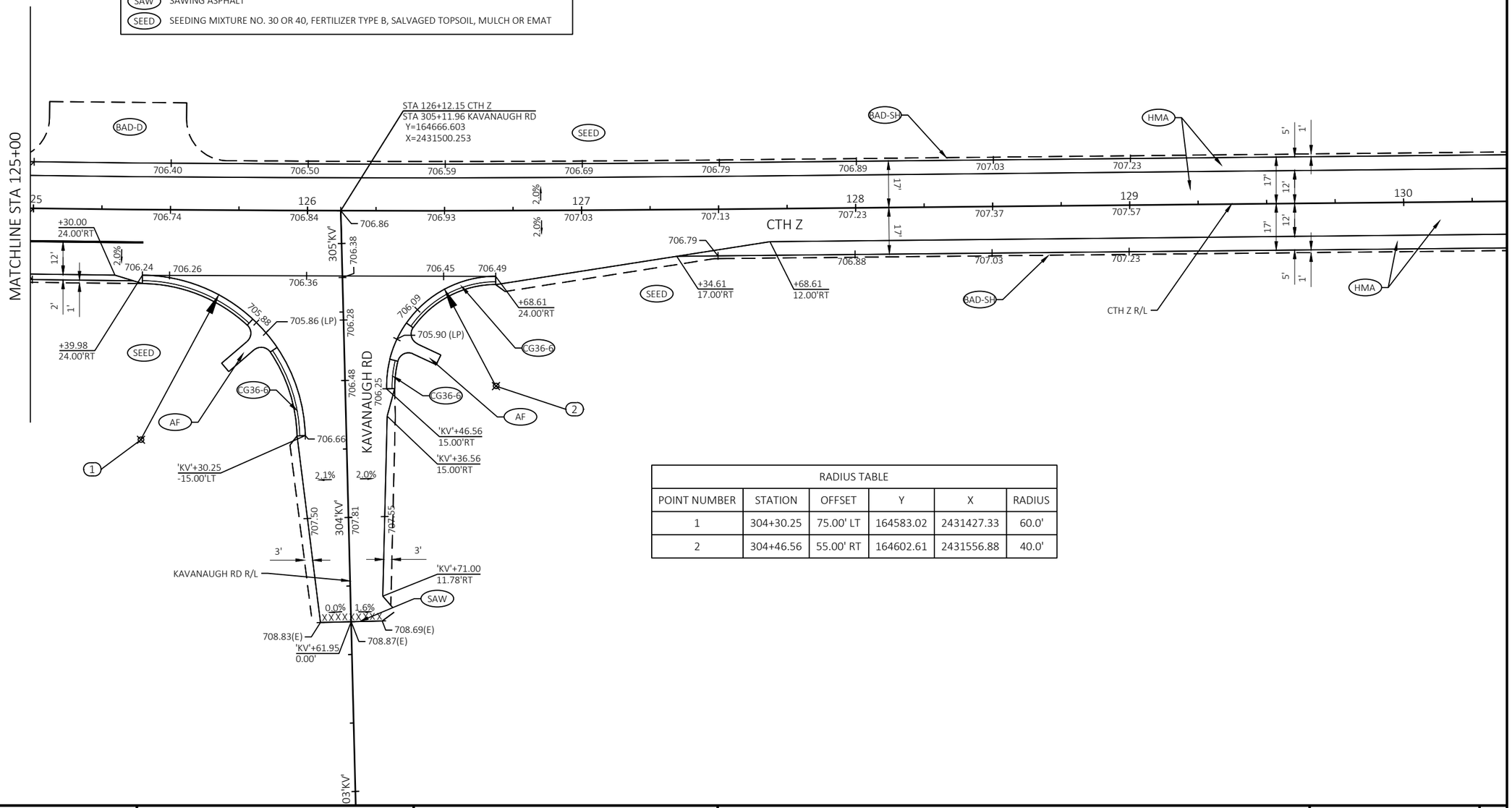
LEGEND 1

AD	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
AF	ASPHALTIC FLUME
BAD-D	BASE AGGREGATE DENSE 3/4-INCH- DRIVEWAY
BAD-SH	BASE AGGREGATE DENSE 3/4-INCH- SHOULDER
CG36-4	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
CG36-6	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG-CUT	DRIVEWAY CUT CURB
HMA	HMA PAVEMENT 5"
MGS	MGS GUARDRAIL 3
MGS-E	MGS GUARDRAIL TERMINAL EAT
MGS-R	MGS GUARDRAIL SHORT RADIUS
SAW	SAWING ASPHALT
SEED	SEEDING MIXTURE NO. 30 OR 40, FERTILIZER TYPE B, SALVAGED TOPSOIL, MULCH OR EMAT

LEGEND 2

(#)	STATION & OFFSET POINT NUMBER
XXX.XX	PAVING GRADE
(LP)	LOW POINT
(HP)	HIGH POINT
(E)	EXISTING
(G)	GUTTER GRADE

N



RADIUS TABLE					
POINT NUMBER	STATION	OFFSET	Y	X	RADIUS
1	304+30.25	75.00' LT	164583.02	2431427.33	60.0'
2	304+46.56	55.00' RT	164602.61	2431556.88	40.0'

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	PLAN DETAILS	SHEET 12	E

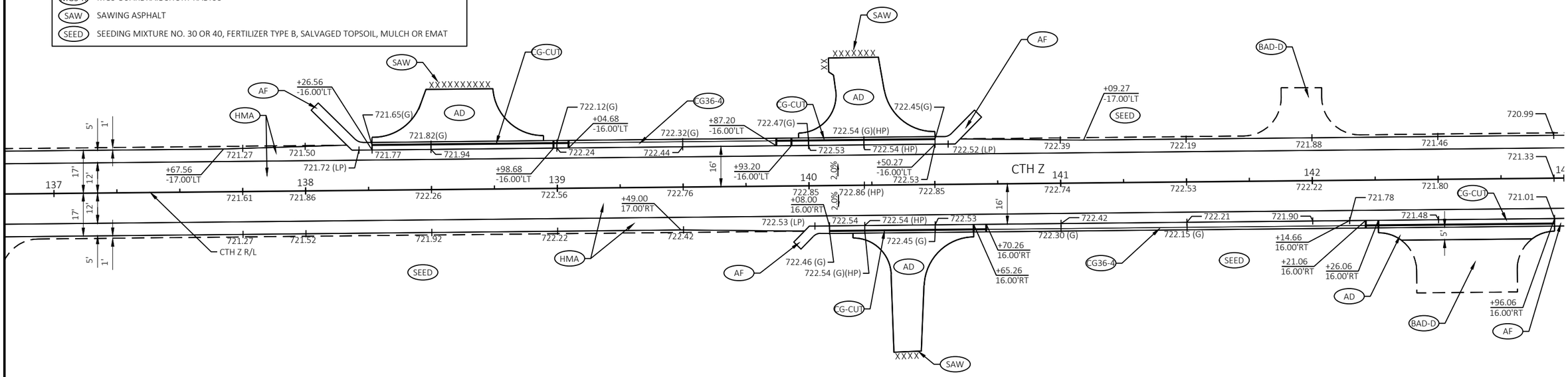
LEGEND 1

AD	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
AF	ASPHALTIC FLUME
BAD-D	BASE AGGREGATE DENSE 3/4-INCH- DRIVEWAY
BAD-SH	BASE AGGREGATE DENSE 3/4-INCH- SHOULDER
CG36-4	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
CG36-6	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG-CUT	DRIVEWAY CUT CURB
HMA	HMA PAVEMENT 5"
MGS	MGS GUARDRAIL 3
MGS-E	MGS GUARDRAIL TERMINAL EAT
MGS-R	MGS GUARDRAIL SHORT RADIUS
SAW	SAWING ASPHALT
SEED	SEEDING MIXTURE NO. 30 OR 40, FERTILIZER TYPE B, SALVAGED TOPSOIL, MULCH OR EMAT

LEGEND 2

(#)	STATION & OFFSET POINT NUMBER
XXX.XX	PAVING GRADE
(LP)	LOW POINT
(HP)	HIGH POINT
(E)	EXISTING
(G)	GUTTER GRADE

N



PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	PLAN DETAILS	SHEET 13 E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\021202-PD.DWG
LAYOUT NAME - 021202-03-pd

PLOT DATE : 7/3/2024 1:58 PM PLOT BY : MAZARIEGOS, JAIRO PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

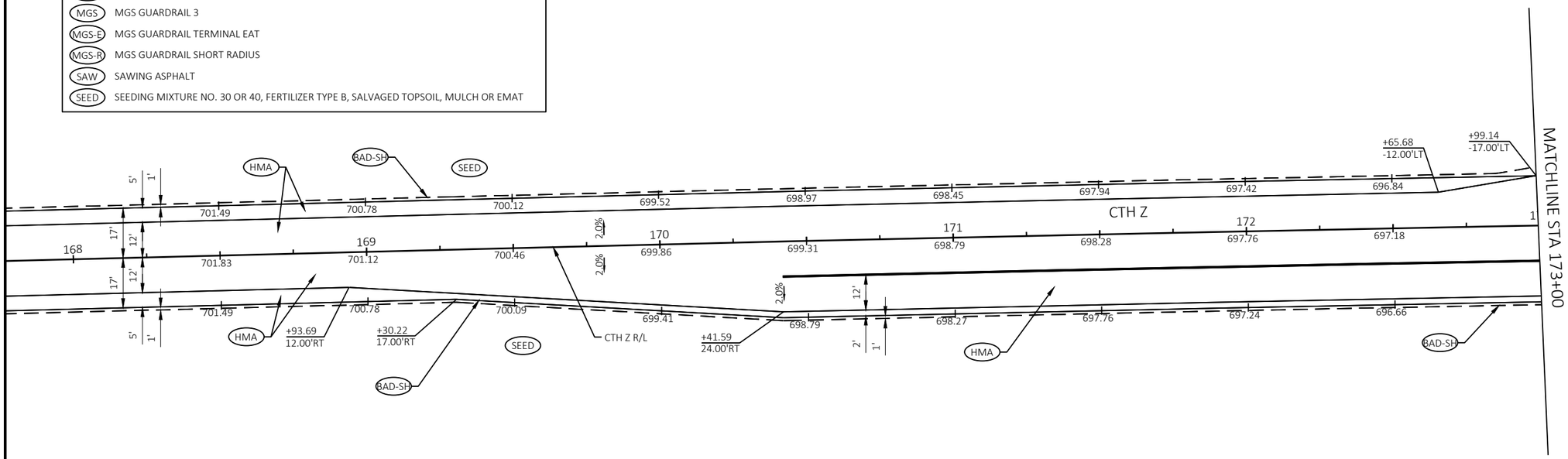
LEGEND 1

AD	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
AF	ASPHALTIC FLUME
BAD-D	BASE AGGREGATE DENSE 3/4-INCH- DRIVEWAY
BAD-SH	BASE AGGREGATE DENSE 3/4-INCH- SHOULDER
CG36-4	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
CG36-6	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG-CUT	DRIVEWAY CUT CURB
HMA	HMA PAVEMENT 5"
MGS	MGS GUARDRAIL 3
MGS-E	MGS GUARDRAIL TERMINAL EAT
MGS-R	MGS GUARDRAIL SHORT RADIUS
SAW	SAWING ASPHALT
SEED	SEEDING MIXTURE NO. 30 OR 40, FERTILIZER TYPE B, SALVAGED TOPSOIL, MULCH OR EMAT

LEGEND 2

(#)	STATION & OFFSET POINT NUMBER
XXX.XX	PAVING GRADE
(LP)	LOW POINT
(HP)	HIGH POINT
(E)	EXISTING
(G)	GUTTER GRADE

N



PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	PLAN DETAILS	SHEET 14 E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\021202-PD.DWG
LAYOUT NAME - 021202-04-pd
PLOT DATE : 7/3/2024 1:58 PM PLOT BY : MAZARIEGOS, JAIRO PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

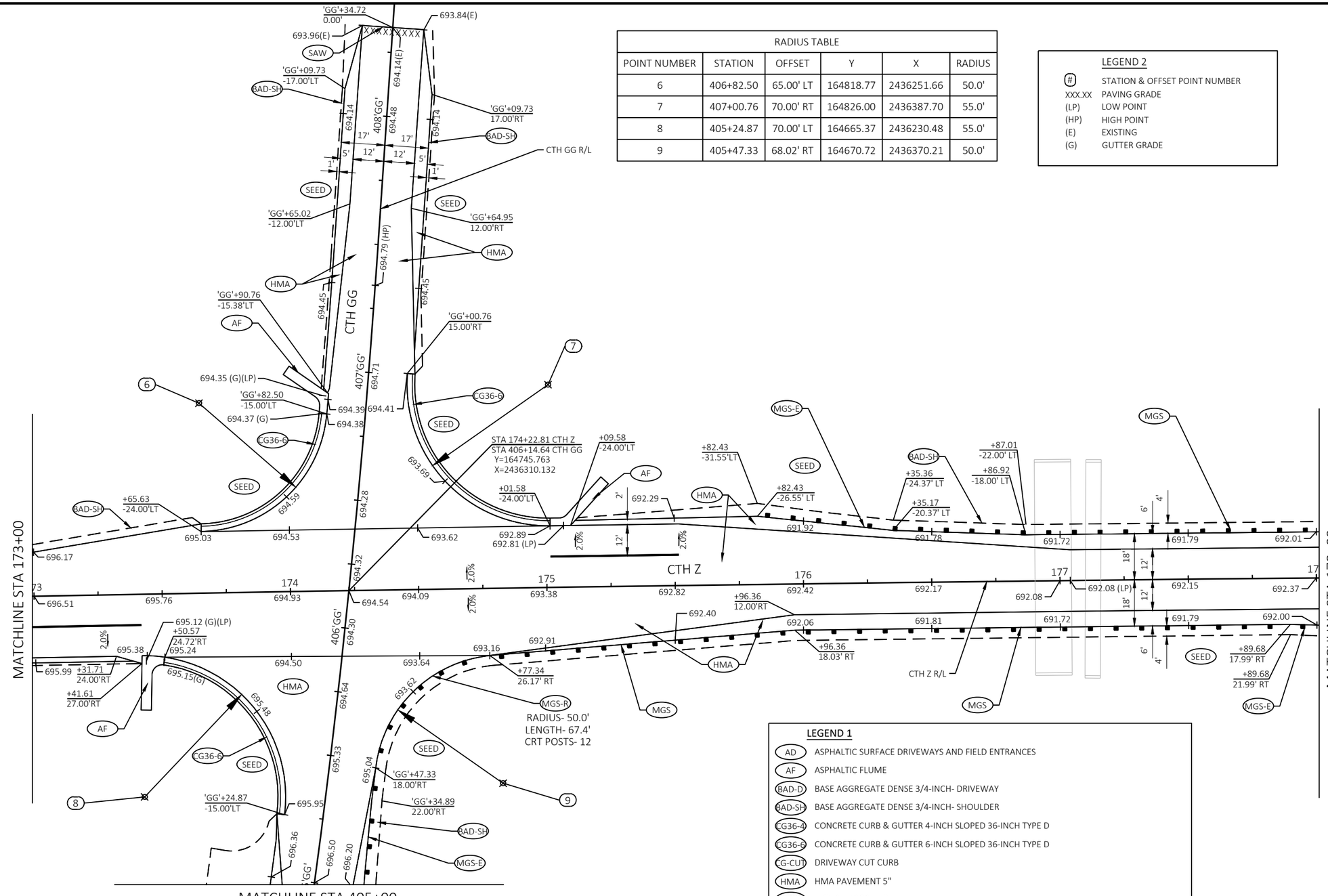
2

RADIUS TABLE					
POINT NUMBER	STATION	OFFSET	Y	X	RADIUS
6	406+82.50	65.00' LT	164818.77	2436251.66	50.0'
7	407+00.76	70.00' RT	164826.00	2436387.70	55.0'
8	405+24.87	70.00' LT	164665.37	2436230.48	55.0'
9	405+47.33	68.02' RT	164670.72	2436370.21	50.0'

LEGEND 2

(#)	STATION & OFFSET POINT NUMBER
XXX.XX	PAVING GRADE
(LP)	LOW POINT
(HP)	HIGH POINT
(E)	EXISTING
(G)	GUTTER GRADE

N



LEGEND 1

AD	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
AF	ASPHALTIC FLUME
BAD-D	BASE AGGREGATE DENSE 3/4-INCH- DRIVEWAY
BAD-SH	BASE AGGREGATE DENSE 3/4-INCH- SHOULDER
CG36-4	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
CG36-6	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG-CUT	DRIVEWAY CUT CURB
HMA	HMA PAVEMENT 5"
MGS	MGS GUARDRAIL 3
MGS-E	MGS GUARDRAIL TERMINAL EAT
MGS-R	MGS GUARDRAIL SHORT RADIUS
SAW	SAWING ASPHALT
SEED	SEEDING MIXTURE NO. 30 OR 40, FERTILIZER TYPE B, SALVAGED TOPSOIL, MULCH OR EMAT

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	PLAN DETAILS	SHEET 15	E

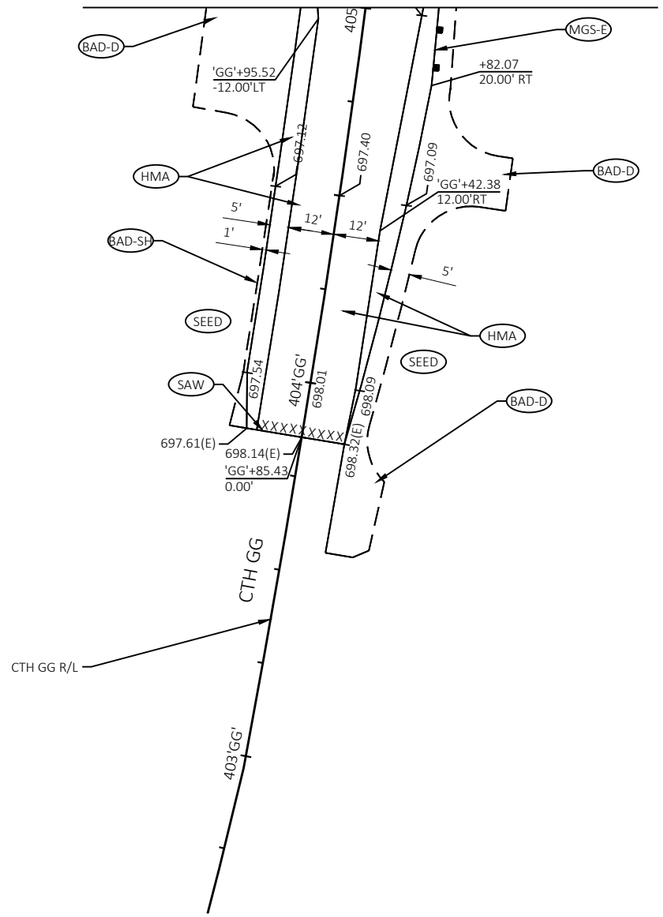
FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\021202-PD.DWG
LAYOUT NAME - 021202-05-pd

PLOT DATE : 7/3/2024 1:58 PM PLOT BY : MAZARIEGOS, JAIRO PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND 1

AD	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
AF	ASPHALTIC FLUME
BAD-D	BASE AGGREGATE DENSE 3/4-INCH- DRIVEWAY
BAD-SH	BASE AGGREGATE DENSE 3/4-INCH- SHOULDER
CG36-4	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
CG36-6	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG-CUT	DRIVEWAY CUT CURB
HMA	HMA PAVEMENT 5"
MGS	MGS GUARDRAIL 3
MGS-E	MGS GUARDRAIL TERMINAL EAT
MGS-R	MGS GUARDRAIL SHORT RADIUS
SAW	SAWING ASPHALT
SEED	SEEDING MIXTURE NO. 30 OR 40, FERTILIZER TYPE B, SALVAGED TOPSOIL, MULCH OR EMAT

MATCHLINE STA 405+00



LEGEND 2

(#)	STATION & OFFSET POINT NUMBER
XXX.XX	PAVING GRADE
(LP)	LOW POINT
(HP)	HIGH POINT
(E)	EXISTING
(G)	GUTTER GRADE

N

2

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	PLAN DETAILS	SHEET 16	E

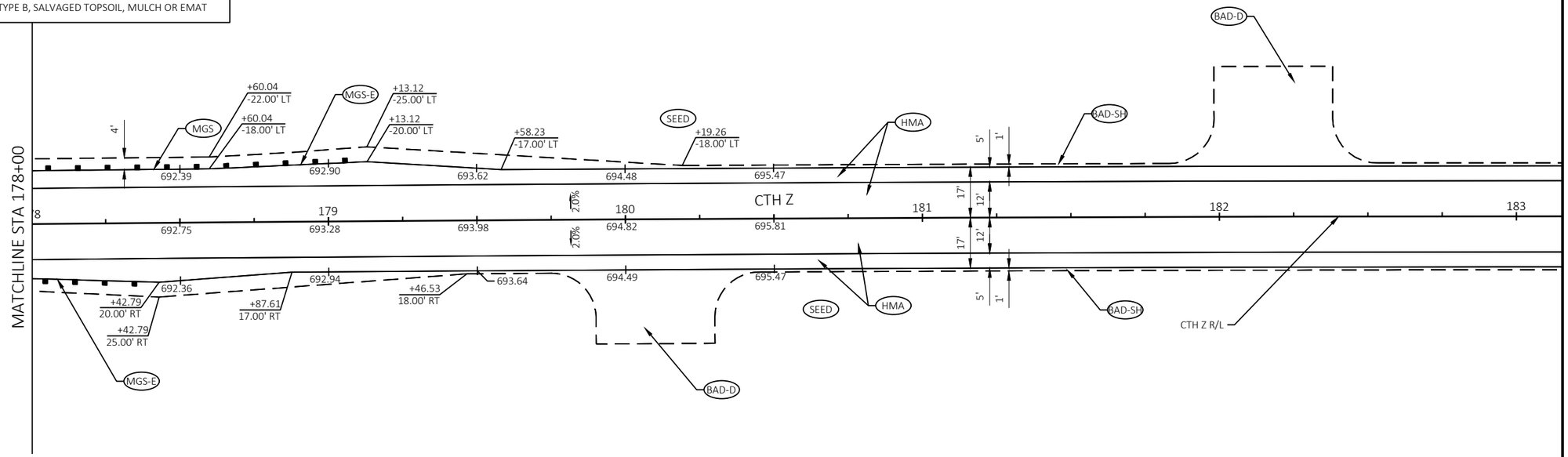
LEGEND 1

AD	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
AF	ASPHALTIC FLUME
BAD-D	BASE AGGREGATE DENSE 3/4-INCH- DRIVEWAY
BAD-SH	BASE AGGREGATE DENSE 3/4-INCH- SHOULDER
CG36-4	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
CG36-6	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG-CUT	DRIVEWAY CUT CURB
HMA	HMA PAVEMENT 5"
MGS	MGS GUARDRAIL 3
MGS-E	MGS GUARDRAIL TERMINAL EAT
MGS-R	MGS GUARDRAIL SHORT RADIUS
SAW	SAWING ASPHALT
SEED	SEEDING MIXTURE NO. 30 OR 40, FERTILIZER TYPE B, SALVAGED TOPSOIL, MULCH OR EMAT

LEGEND 2

(#)	STATION & OFFSET POINT NUMBER
XXX.XX	PAVING GRADE
(LP)	LOW POINT
(HP)	HIGH POINT
(E)	EXISTING
(G)	GUTTER GRADE

N



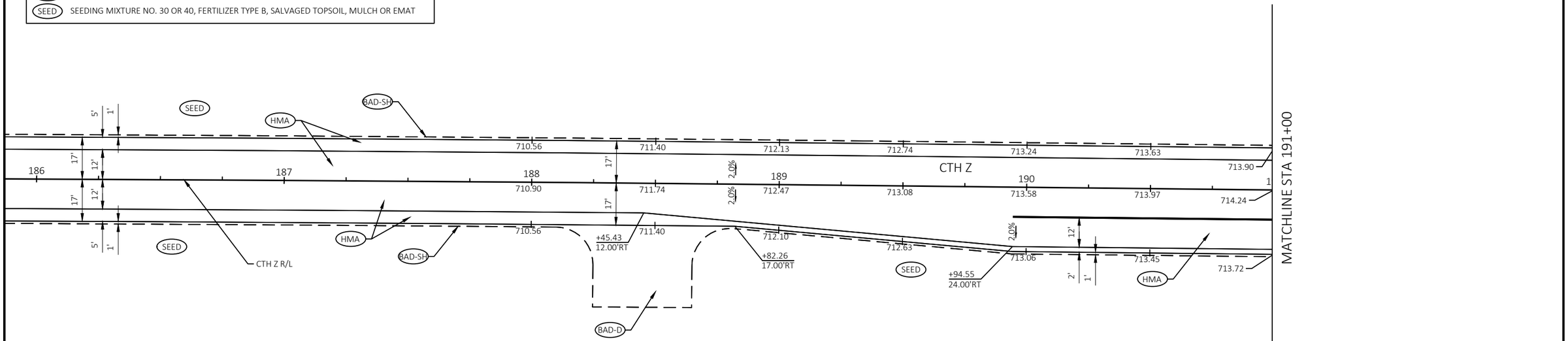
LEGEND 1

AD	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
AF	ASPHALTIC FLUME
BAD-D	BASE AGGREGATE DENSE 3/4-INCH- DRIVEWAY
BAD-SH	BASE AGGREGATE DENSE 3/4-INCH- SHOULDER
CG36-4	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
CG36-6	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG-CUT	DRIVEWAY CUT CURB
HMA	HMA PAVEMENT 5"
MGS	MGS GUARDRAIL 3
MGS-E	MGS GUARDRAIL TERMINAL EAT
MGS-R	MGS GUARDRAIL SHORT RADIUS
SAW	SAWING ASPHALT
SEED	SEEDING MIXTURE NO. 30 OR 40, FERTILIZER TYPE B, SALVAGED TOPSOIL, MULCH OR EMAT

LEGEND 2

(#)	STATION & OFFSET POINT NUMBER
XXX.XX	PAVING GRADE
(LP)	LOW POINT
(HP)	HIGH POINT
(E)	EXISTING
(G)	GUTTER GRADE

N



PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	PLAN DETAILS	SHEET 18 E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\021202-PD.DWG
LAYOUT NAME - 021202-07-pd

PLOT DATE : 7/3/2024 1:58 PM PLOT BY : MAZARIEGOS, JAIRO PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

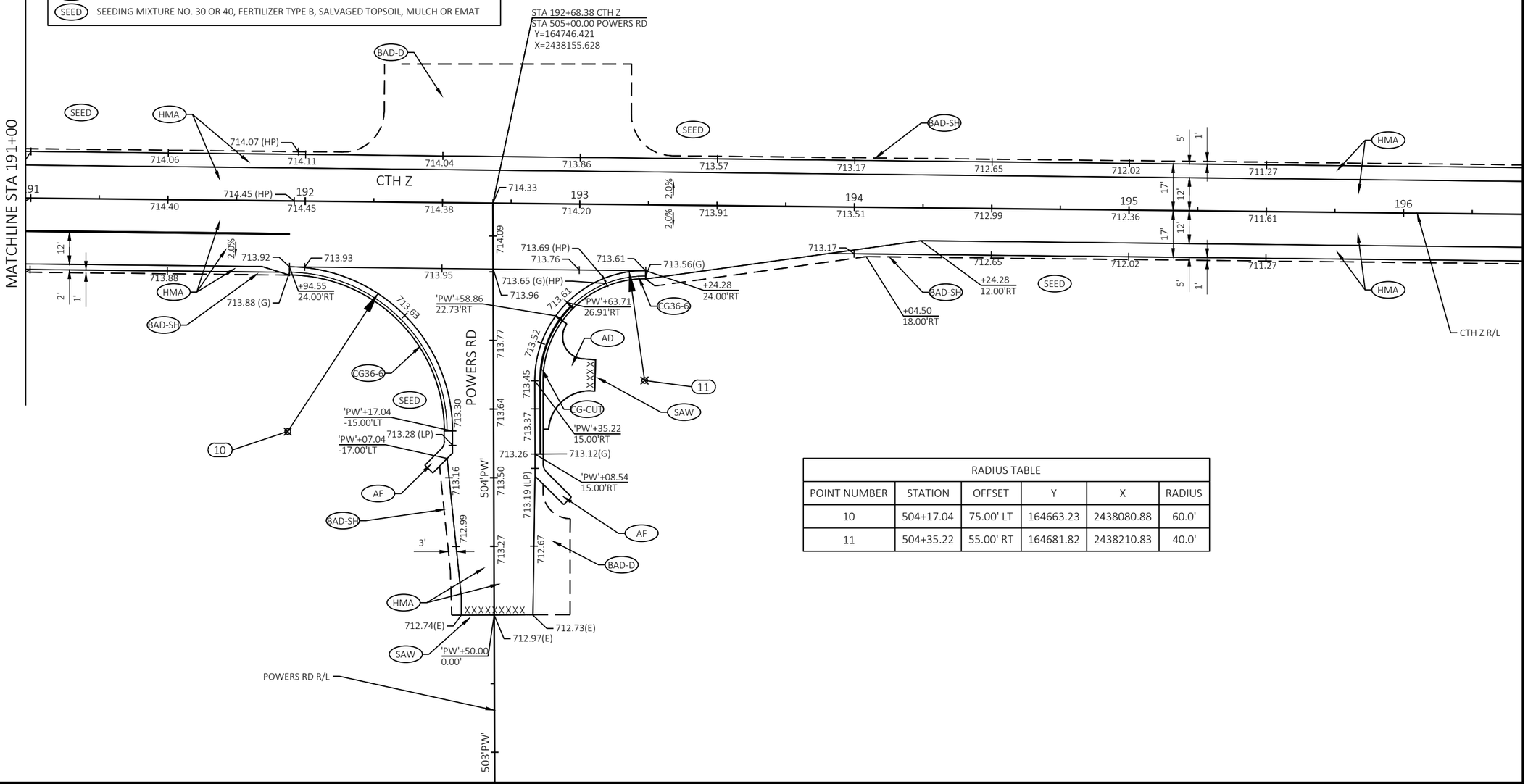
LEGEND 1

AD	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
AF	ASPHALTIC FLUME
BAD-D	BASE AGGREGATE DENSE 3/4-INCH- DRIVEWAY
BAD-SH	BASE AGGREGATE DENSE 3/4-INCH- SHOULDER
CG36-4	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
CG36-6	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG-CUT	DRIVEWAY CUT CURB
HMA	HMA PAVEMENT 5"
MGS	MGS GUARDRAIL 3
MGS-E	MGS GUARDRAIL TERMINAL EAT
MGS-R	MGS GUARDRAIL SHORT RADIUS
SAW	SAWING ASPHALT
SEED	SEEDING MIXTURE NO. 30 OR 40, FERTILIZER TYPE B, SALVAGED TOPSOIL, MULCH OR EMAT

LEGEND 2

#	STATION & OFFSET POINT NUMBER
XXX.XX	PAVING GRADE
(LP)	LOW POINT
(HP)	HIGH POINT
(E)	EXISTING
(G)	GUTTER GRADE

N



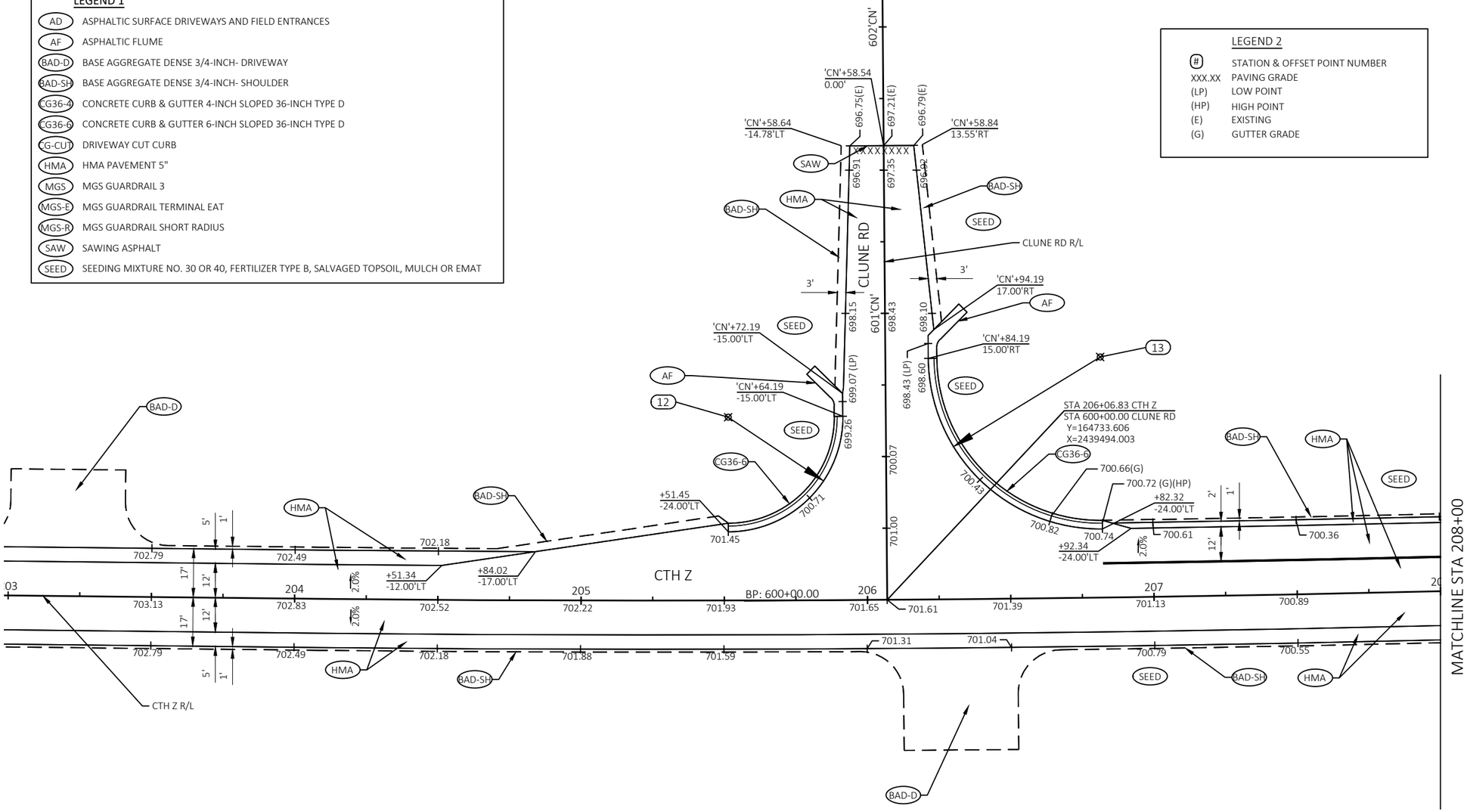
RADIUS TABLE					
POINT NUMBER	STATION	OFFSET	Y	X	RADIUS
10	504+17.04	75.00' LT	164663.23	2438080.88	60.0'
11	504+35.22	55.00' RT	164681.82	2438210.83	40.0'

LEGEND 1

AD	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
AF	ASPHALTIC FLUME
BAD-D	BASE AGGREGATE DENSE 3/4-INCH- DRIVEWAY
BAD-SH	BASE AGGREGATE DENSE 3/4-INCH- SHOULDER
CG36-4	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
CG36-6	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG-CUT	DRIVEWAY CUT CURB
HMA	HMA PAVEMENT 5"
MGS	MGS GUARDRAIL 3
MGS-E	MGS GUARDRAIL TERMINAL EAT
MGS-R	MGS GUARDRAIL SHORT RADIUS
SAW	SAWING ASPHALT
SEED	SEEDING MIXTURE NO. 30 OR 40, FERTILIZER TYPE B, SALVAGED TOPSOIL, MULCH OR EMAT

LEGEND 2

(#)	STATION & OFFSET POINT NUMBER
XXX.XX	PAVING GRADE
(LP)	LOW POINT
(HP)	HIGH POINT
(E)	EXISTING
(G)	GUTTER GRADE



PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	PLAN DETAILS	SHEET 20 E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\021202-PD.DWG
LAYOUT NAME - 021202-09-pd

PLOT DATE : 7/3/2024 1:58 PM PLOT BY : MAZARIEGOS, JAIRO PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND 1

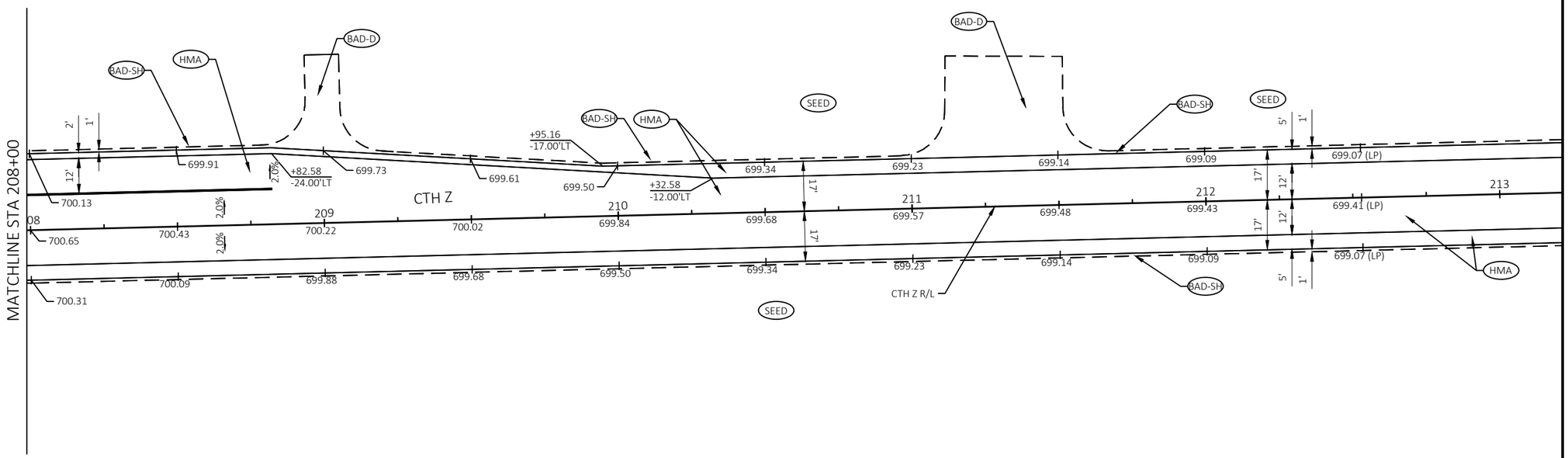
AD	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
AF	ASPHALTIC FLUME
BAD-D	BASE AGGREGATE DENSE 3/4-INCH- DRIVEWAY
BAD-SH	BASE AGGREGATE DENSE 3/4-INCH- SHOULDER
CG36-4	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
CG36-6	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG-CUT	DRIVEWAY CUT CURB
HMA	HMA PAVEMENT 5"
MGS	MGS GUARDRAIL 3
MGS-E	MGS GUARDRAIL TERMINAL EAT
MGS-R	MGS GUARDRAIL SHORT RADIUS
SAW	SAWING ASPHALT
SEED	SEEDING MIXTURE NO. 30 OR 40, FERTILIZER TYPE B, SALVAGED TOPSOIL, MULCH OR EMAT

LEGEND 2

(#)	STATION & OFFSET POINT NUMBER
XXX.XX	PAVING GRADE
(LP)	LOW POINT
(HP)	HIGH POINT
(E)	EXISTING
(G)	GUTTER GRADE

N

2



PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	PLAN DETAILS	SHEET 21 E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\021202-PD.DWG
LAYOUT NAME - 021202-10-pd

PLOT DATE : 7/3/2024 1:58 PM PLOT BY : MAZARIEGOS, JAIRO PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

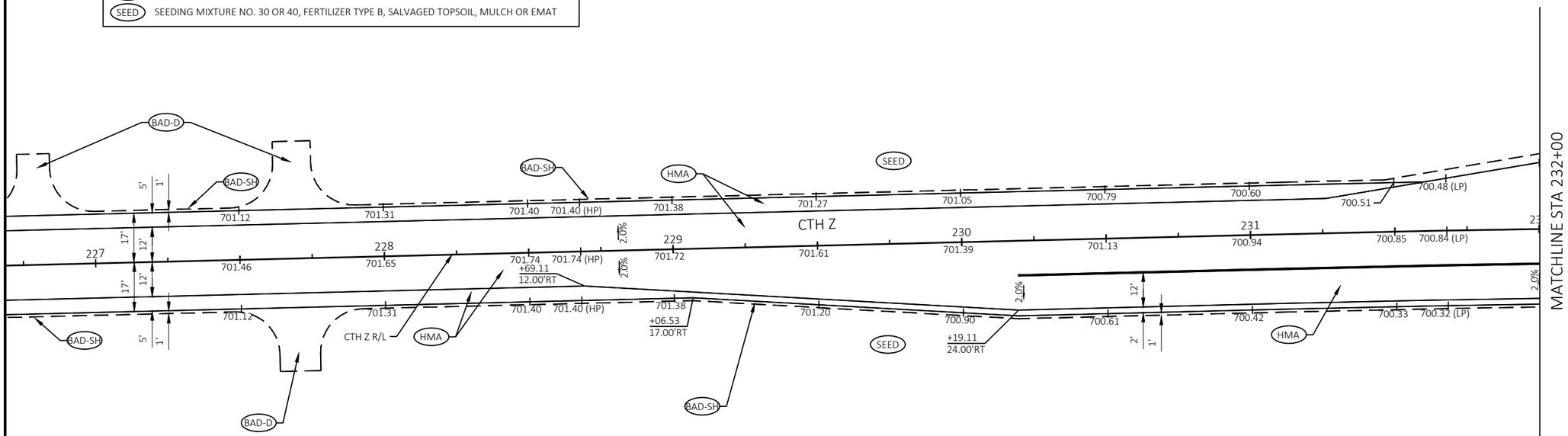
LEGEND 1

AD	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
AF	ASPHALTIC FLUME
BAD-D	BASE AGGREGATE DENSE 3/4-INCH- DRIVEWAY
BAD-SH	BASE AGGREGATE DENSE 3/4-INCH- SHOULDER
CG36-4	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
CG36-6	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG-CUT	DRIVEWAY CUT CURB
HMA	HMA PAVEMENT 5"
MGS	MGS GUARDRAIL 3
MGS-E	MGS GUARDRAIL TERMINAL EAT
MGS-R	MGS GUARDRAIL SHORT RADIUS
SAW	SAWING ASPHALT
SEED	SEEDING MIXTURE NO. 30 OR 40, FERTILIZER TYPE B, SALVAGED TOPSOIL, MULCH OR EMAT

LEGEND 2

#	STATION & OFFSET POINT NUMBER
XXX.XX	PAVING GRADE
(LP)	LOW POINT
(HP)	HIGH POINT
(E)	EXISTING
(G)	GUTTER GRADE

N



PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	PLAN DETAILS	SHEET 22 E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\021202-PD.DWG
LAYOUT NAME - 021202-11-pd

PLOT DATE : 7/3/2024 1:58 PM PLOT BY : MAZARIEGOS, JAIRO PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

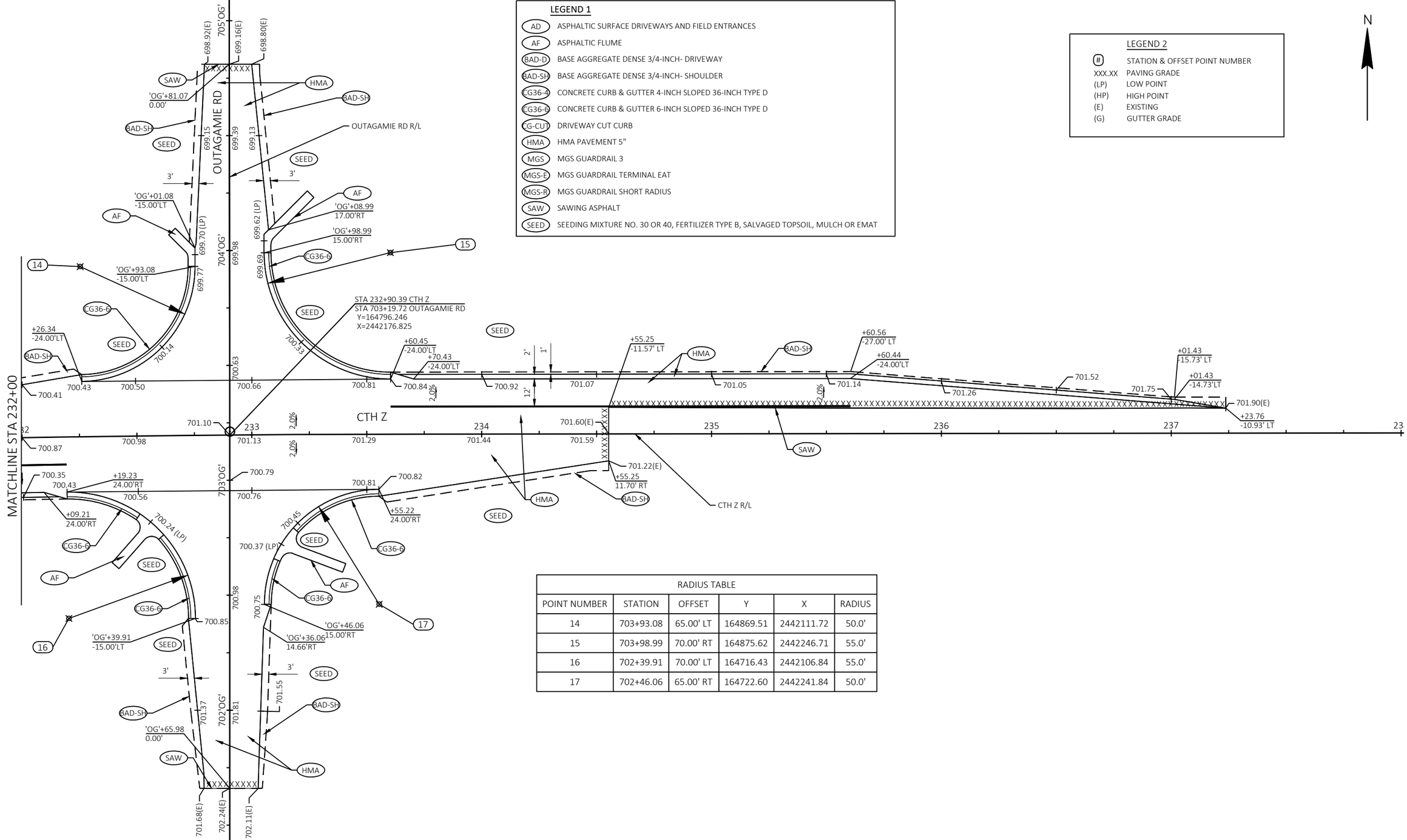
LEGEND 1

AD	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
AF	ASPHALTIC FLUME
BAD-D	BASE AGGREGATE DENSE 3/4-INCH- DRIVEWAY
BAD-SH	BASE AGGREGATE DENSE 3/4-INCH- SHOULDER
CG36-4	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
CG36-6	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG-CUT	DRIVEWAY CUT CURB
HMA	HMA PAVEMENT 5"
MGS	MGS GUARDRAIL 3
MGS-E	MGS GUARDRAIL TERMINAL EAT
MGS-R	MGS GUARDRAIL SHORT RADIUS
SAW	SAWING ASPHALT
SEED	SEEDING MIXTURE NO. 30 OR 40, FERTILIZER TYPE B, SALVAGED TOPSOIL, MULCH OR EMAT

LEGEND 2

(#)	STATION & OFFSET POINT NUMBER
XXX.XX	PAVING GRADE
(LP)	LOW POINT
(HP)	HIGH POINT
(E)	EXISTING
(G)	GUTTER GRADE

N



RADIUS TABLE					
POINT NUMBER	STATION	OFFSET	Y	X	RADIUS
14	703+93.08	65.00' LT	164869.51	2442111.72	50.0'
15	703+98.99	70.00' RT	164875.62	2442246.71	55.0'
16	702+39.91	70.00' LT	164716.43	2442106.84	55.0'
17	702+46.06	65.00' RT	164722.60	2442241.84	50.0'

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	PLAN DETAILS	SHEET 23	E

2

CTH ZZ

HIETPAS

HAAS RD

NEW HORIZONS DAIRY LLC

UNNAMED TRIBUTARY

COUNTRY AIRE HARVESTING

WETLAND BOUNDARY (TYP.)

SCHAEUBLE

HER

N

CTH Z

102 104 106 108 110 112

MATCHLINE STA 114+00

R/W (TYP.)

TLE (TYP.)

SLOPE INTERCEPT (TYP.)

TO THE FOX RIVER

LEGEND

- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- EROSION MAT CLASS II TYPE C
- MULCH
- SILT FENCE
- RIPRAP MEDIUM
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- F SILT FENCE RELIEF

MISCHLER

MISCHLER

MISCHLER

COUNTRY AIRE HARVESTING LLC

HUEBNER FARMS LLC

WETLAND BOUNDARY (TYP.)

N

MATCHLINE STA 114+00

CTH Z

114 116 118 120 122 124 126

MATCHLINE STA 128+00

KLEPPS

TLE (TYP.)

SLOPE INTERCEPT (TYP.)

R/W (TYP.)

HUEBNER FARMS LLC

305'KV

304'KV

303'KV

JEANTY

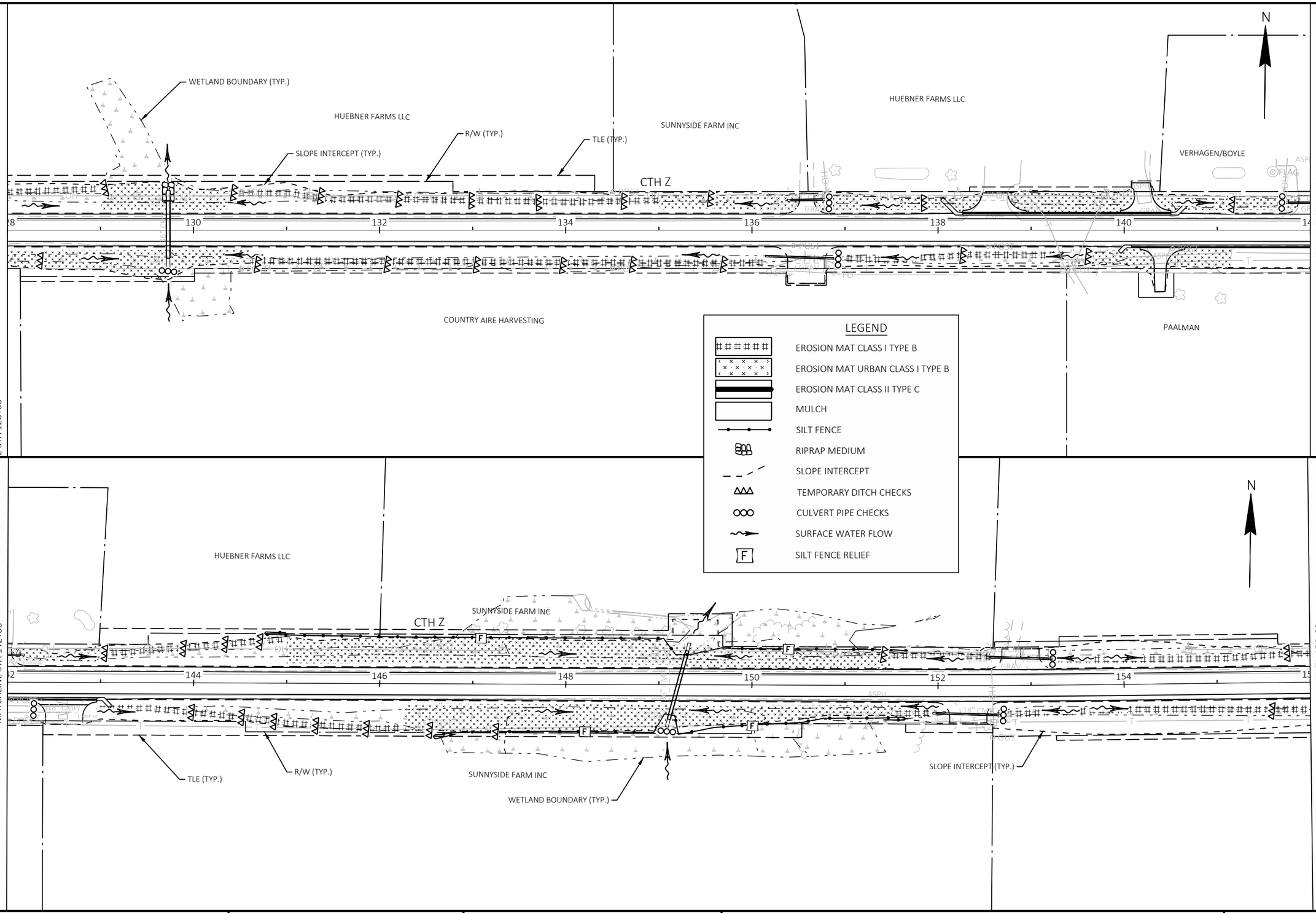
KAVANAUGH RD

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	EROSION CONTROL	SHEET 24	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 01

PLOT DATE : 7/3/2024 2:07 PM PLOT BY : MAZARIEGOS, JAIRO PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	EROSION CONTROL	SHEET 25	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 02
PLOT DATE : 7/3/2024 2:07 PM
PLOT BY : MAZARIEGOS, JAIRO
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

2

2

N

WETLAND BOUNDARY (TYP.)

SUNNYSIDE FARM INC

CTH Z

MATCHLINE STA 156+00

MATCHLINE STA 170+00

158 160 162 164 166 168

AAK HOLDINGS III LLC

SLOPE INTERCEPT (TYP.)

TLE (TYP.)

R/W (TYP.)

LEGEND

- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- EROSION MAT CLASS II TYPE C
- MULCH
- SILT FENCE
- RIPRAP MEDIUM
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- SILT FENCE RELIEF

N

TO THE PLUM CREEK

UNNAMED TRIBUTARY

WETLAND BOUNDARY (TYP.)

408'GG

407'GG

CTH GG

HUEBNER

SUNNYSIDE FARM INC

CTH Z

MATCHLINE STA 170+00

172 174 176 178 CTH Z 180 182

MATCHLINE STA 184+00

406'GG

SHED

SCHUESSLER

SCHUESSLER

UNNAMED TRIBUTARY TO THE PLUM CREEK

TLE (TYP.)

R/W (TYP.)

AAK HOLDINGS III LLC

SLOPE INTERCEPT (TYP.)

405'GG

N MILITARY RD

404'GG

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	EROSION CONTROL	SHEET 26	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 03

PLOT DATE : 7/3/2024 2:07 PM PLOT BY : MAZARIEGOS, JAIRO PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

2

2

N

WETLAND BOUNDARY (TYP.)

R/W (TYP.)

SLOPE INTERCEPT (TYP.)

TLE (TYP.)

R/W

SCHUESSLER

SCHUESSLER

MATCHLINE STA 184+00

MATCHLINE STA 198+00

CTH Z

POWERS RD

504'PW'

503'PW'

SEPC

POST

DERKS

LECHER

UNNAMED TRIBUTARY TO THE PLUM CREEK

LEGEND

- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- EROSION MAT CLASS II TYPE C
- MULCH
- SILT FENCE
- RIPRAP MEDIUM
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- SILT FENCE RELIEF (F)

UNNAMED TRIBUTARY TO THE PLUM CREEK

HOELZEL

ENGEL

BUCKOSKI

STEFFENS

CLUNE RD

602'CN'

601'CN'

WETLAND BOUNDARY (TYP.)

HEART OF VALLEY METRO & SEWAGE

SLOPE INTERCEPT (TYP.)

R/W (TYP.)

TLE (TYP.)

MATCHLINE STA 198+00

MATCHLINE STA 212+00

CTH Z

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	EROSION CONTROL	SHEET 27	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 04

PLOT DATE : 7/3/2024 2:08 PM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

2

2

PLUM CREEK

MILLER

WETLAND BOUNDARY (TYP.)

TLE (TYP.)

R/W (TYP.)

BRANTMEIER

N

MATCHLINE STA 212+00

MATCHLINE STA 226+00

214 216 218 220 222 224

CTH Z

HEART OF VALLEY METRO & SEWAGE

SLOPE INTERCEPT (TYP.)

BROEREN

LUKES

UNNAMED TRIBUTARY TO THE

LEGEND

- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- EROSION MAT CLASS II TYPE C
- MULCH
- SILT FENCE
- RIPRAP MEDIUM
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- F SILT FENCE RELIEF

BRANTMEIER

BRANTMEIER

N

SLOPE INTERCEPT (TYP.)

R/W (TYP.)

TLE (TYP.)

WETLAND BOUNDAY

AAK HOLDINGS LLC

705'OG'

704'OG'

703'OG'

702'OG'

701'OG'

MATCHLINE STA 226+00

CTH Z

228 230 232 234 236 238

WURST

SCHMITT

LUKES

OUTAGAMIE RD

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	EROSION CONTROL	SHEET 28	E

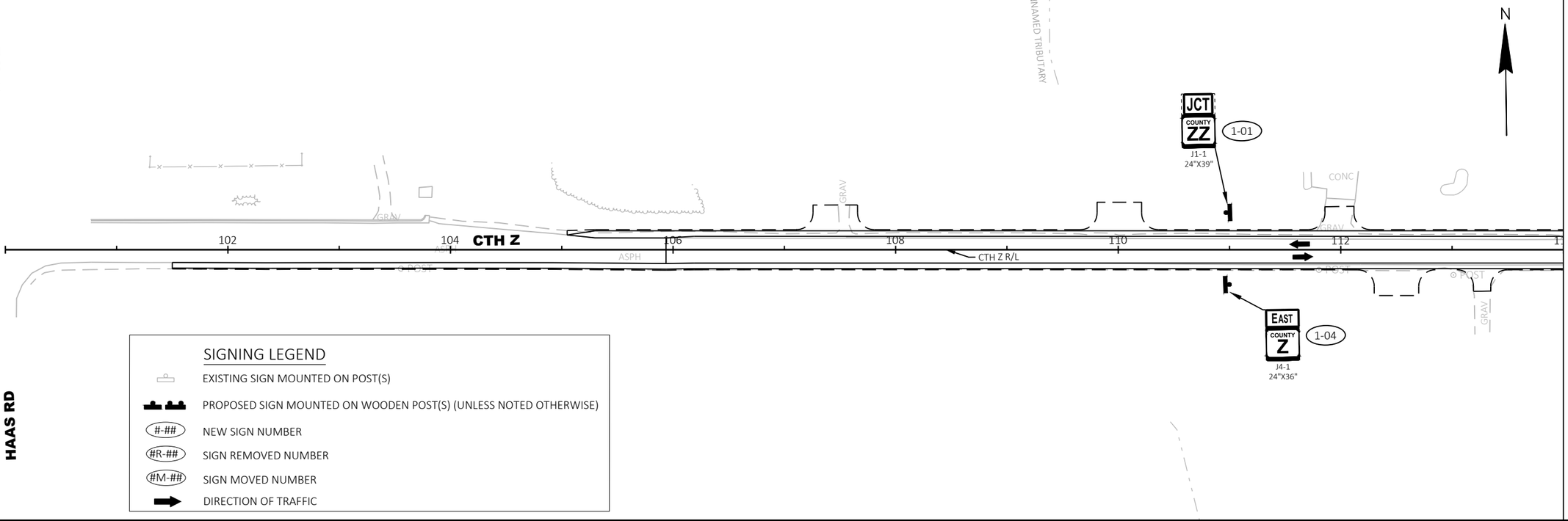
FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 05

PLOT DATE : 7/10/2024 2:37 PM PLOT BY : SIEBERT, LUKE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

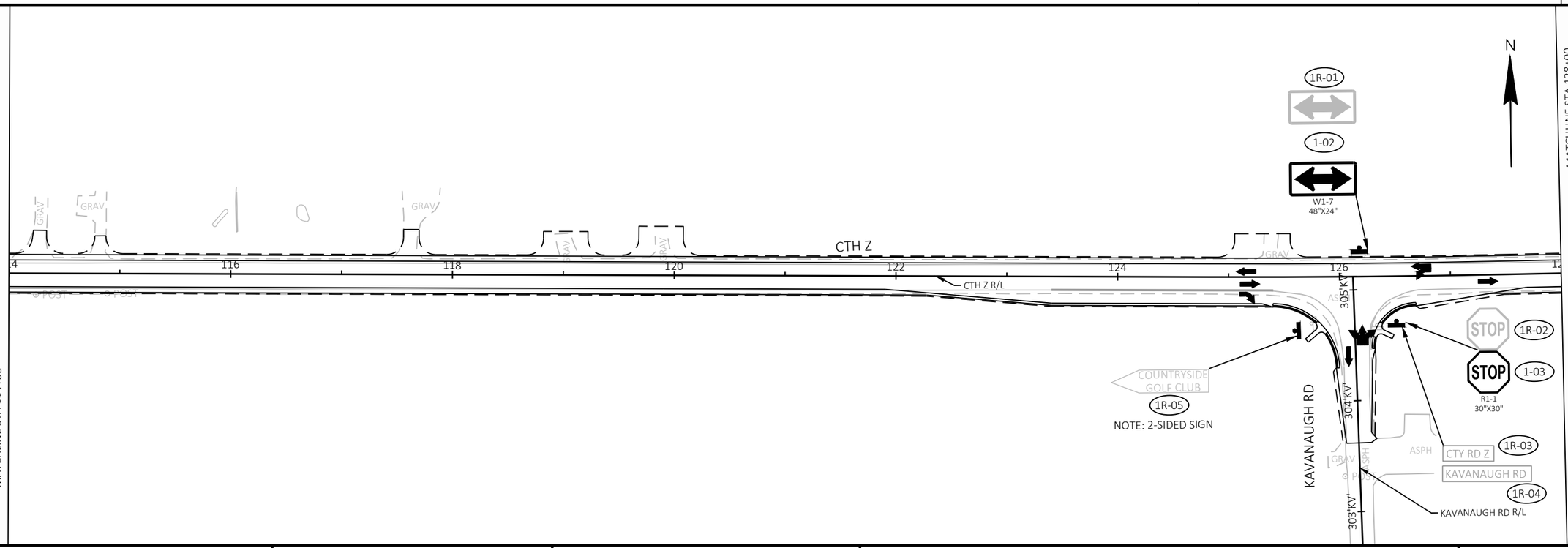
CTH ZZ

HAAS RD



SIGNING LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON WOODEN POST(S) (UNLESS NOTED OTHERWISE)
- #-## NEW SIGN NUMBER
- #R-## SIGN REMOVED NUMBER
- #M-## SIGN MOVED NUMBER
- DIRECTION OF TRAFFIC



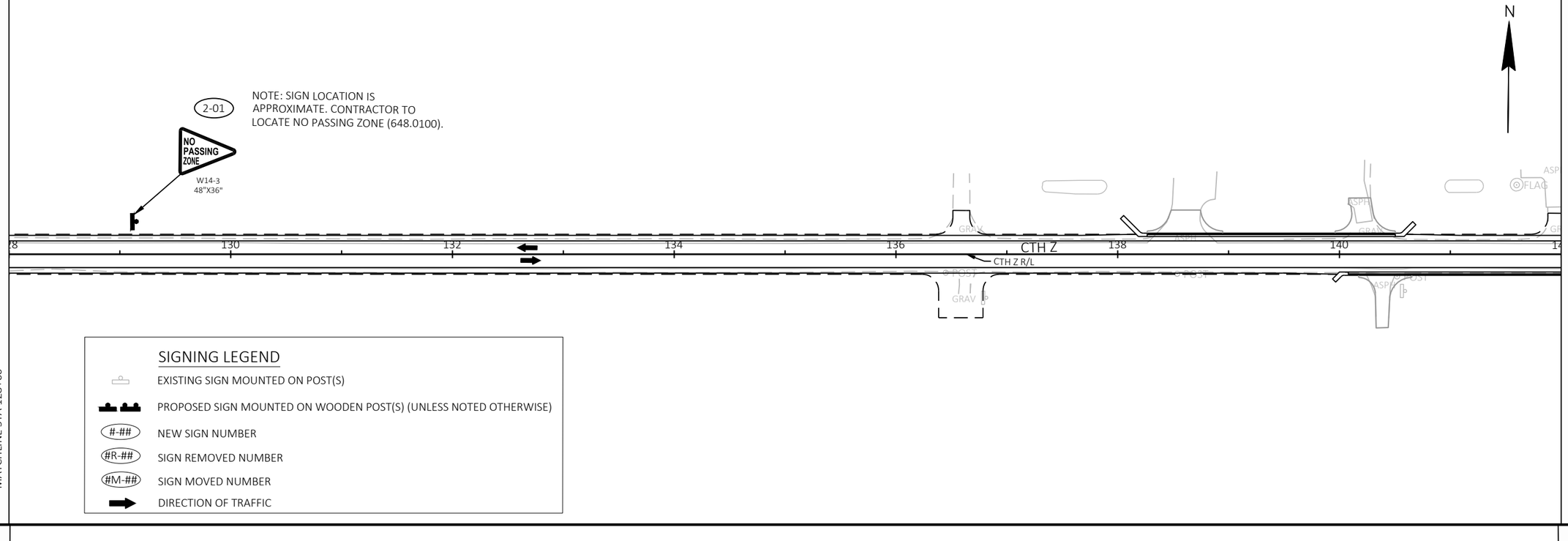
SHEET 1 OF 5

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	PERMANENT SIGNING	SHEET 29	E

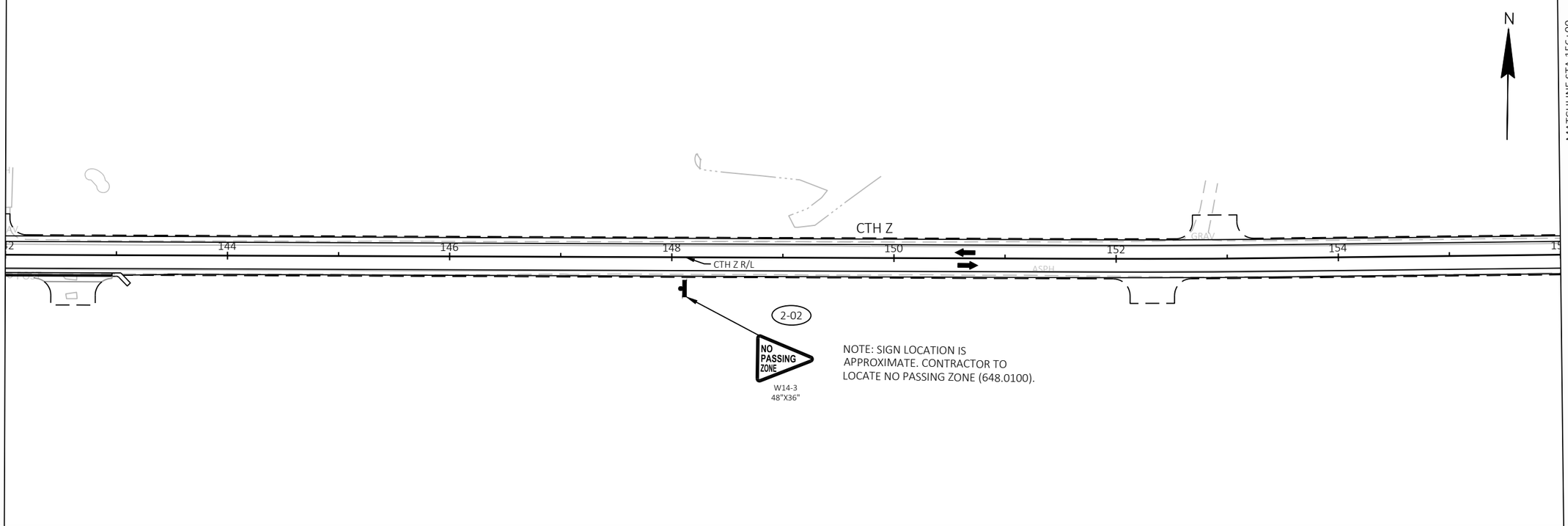
FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 01

PLOT DATE : 7/3/2024 2:55 PM PLOT BY : MAZARIEGOS, JAIRO PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



2



PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	PERMANENT SIGNING	SHEET 30	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 02
PLOT DATE : 7/3/2024 2:56 PM
PLOT BY : MAZARIEGOS, JAIRO
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

2

2

MATCHLINE STA 156+00

MATCHLINE STA 170+00

MATCHLINE STA 170+00

MATCHLINE STA 184+00

N

N

CTH Z

CTH Z

CTH Z R/L

CTH Z R/L

CTH GG

CTH GG

CTH GG R/L

UNNAMED TRIBUTARY TO THE

156 158 160 162 164 166 168

170 172 174 176 178 180 182

GRAV

ASPH

407'GG'

408'GG'

406'GG'

405'GG'

403'GG'

SIGNING LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON WOODEN POST(S) (UNLESS NOTED OTHERWISE)
- #-## NEW SIGN NUMBER
- #R-## SIGN REMOVED NUMBER
- #M-## SIGN MOVED NUMBER
- DIRECTION OF TRAFFIC

3R-01 3-01 JCT COUNTY GG J1-1 24"X39"

3R-02 3-02 COUNTY Z COUNTY Z J12-1 24"X45"

3R-03 3-03 STOP STOP R1-1 30"X30"

3-04 3R-04 STOP STOP R1-1 30"X30"

3-05 3R-05 COUNTY GG COUNTY GG J12-1 24"X45"

3-10 NO PASSING ZONE W14-3 48"X36"

NOTE: SIGN LOCATION IS APPROXIMATE. CONTRACTOR TO LOCATE NO PASSING ZONE (648.0100).

3R-06 3-06 COUNTY GG COUNTY GG J12-1 24"X45"

3R-07 3-07 STOP STOP R1-1 30"X30"

3-08 3R-08 STOP STOP R1-1 30"X30"

3-09 3R-09 COUNTY Z COUNTY Z J12-1 24"X45"

SHEET 3 OF 5

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	PERMANENT SIGNING	SHEET 31	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 03

PLOT DATE : 7/3/2024 2:56 PM PLOT BY : MAZARIEGOS, JAIRO PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

2

4R-01
4-01
JCT
COUNTY GG
J1-1
24"X39"

4R-02
4-02
W1-7
48"X24"

N

MATCHLINE STA 198+00

CTH Z
GRAV
ASPH
POST
SEPC
CTH Z R/L
POWERS RD
4R-04
4R-05
4R-06
DIP
STOP
STOP
R1-1
30"X30"
4-03
4R-03
504'PW'
503'PW'
POWERS RD R/L
UNNAMED TRIBUTARY TO THE PLUM CREEK

MATCHLINE STA 184+00

SIGNING LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON WOODEN POST(S) (UNLESS NOTED OTHERWISE)
- #-## NEW SIGN NUMBER
- #R-## SIGN REMOVED NUMBER
- #M-## SIGN MOVED NUMBER
- DIRECTION OF TRAFFIC

NOTE: SIGN LOCATION IS APPROXIMATE. CONTRACTOR TO LOCATE NO PASSING ZONE (648.0100).

CLUNE RD
602'CN'
601'CN'
HMA
CLUNE RD R/L
CTY RD Z
CLUNE RD
4R-10
4R-11
4-09
4R-09
NO OUTLET
W14-2
30"X30"
4R-08
4-08
STOP
STOP
R1-1
30"X30"
4R-07
DIP
4-04
NO PASSING ZONE
W14-3
48"X36"
CTH Z
CTH Z R/L
W1-7
48"X24"
4-10

N

MATCHLINE STA 212+00

MATCHLINE STA 198+00

UNNAMED TRIBUTARY TO THE PLUM CREEK

SHEET 4 OF 5

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	PERMANENT SIGNING	SHEET 32	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 04

PLOT DATE : 7/3/2024 2:56 PM PLOT BY : MAZARIEGOS, JAIRO PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

MATCHLINE STA 212+00

MATCHLINE STA 226+00

2

N

PLUM CREEK

UNNAMED TRIBUTARY TO THE

CTH Z

CTH Z R/L

212 214 216 218 220 222 224

GRAV

POST

SIGNING LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON WOODEN POST(S) (UNLESS NOTED OTHERWISE)
- #-## NEW SIGN NUMBER
- #R-## SIGN REMOVED NUMBER
- #M-## SIGN MOVED NUMBER
- DIRECTION OF TRAFFIC

5M-01 OUTAGAMIE ADOPT A HIGHWAY

5M-02 W21-1AF

5-02 COUNTY Z M1-5A 24"X24"

5-03 WEIGHT LIMIT CLASS B R12-53 24"X30"

5R-01 OUTAGAMIE COUNTY Z WEIGHT LIMIT CLASS B

5R-02

5R-03

5-01 Outagamie Co I2-2 78" x 15"

5R-04 STOP 5-04 STOP R1-1 30"X30"

HILL RD 5R-07

OUTAGAMIE RD 5R-08

OUTAGAMIE RD R/L

705'OG' 704'OG' 703'OG' 702'OG' 701'OG'

ASPH

226 228 230 232 234 236 238

CTH Z R/L

GRAV SEPV

BROWN CO 5R-06

I2-2 54" x 15"

Brown Co 5-06

D12-50 36"X36" NEIGHBORHOOD WATCH COMMUNITY 5M-03

OUTAGAMIE RD 5R-09

STOP STOP R1-1 30"X30" 5-05 5R-05

OUTAGAMIE RD

MATCHLINE STA 226+00

N

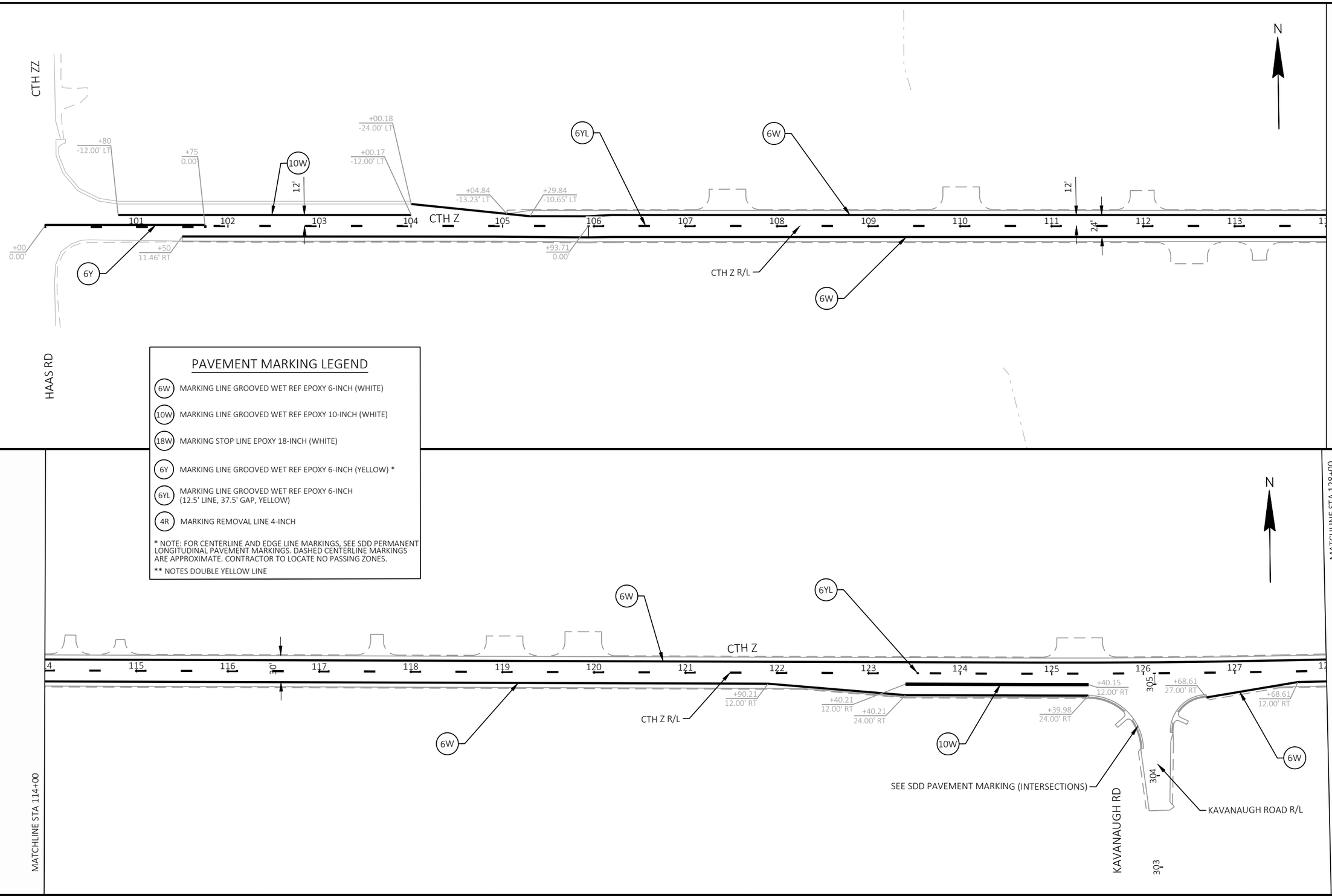
SHEET 5 OF 5

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	PERMANENT SIGNING	SHEET 33	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 05

PLOT DATE : 7/3/2024 2:56 PM PLOT BY : MAZARIEGOS, JAIRO PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



PAVEMENT MARKING LEGEND

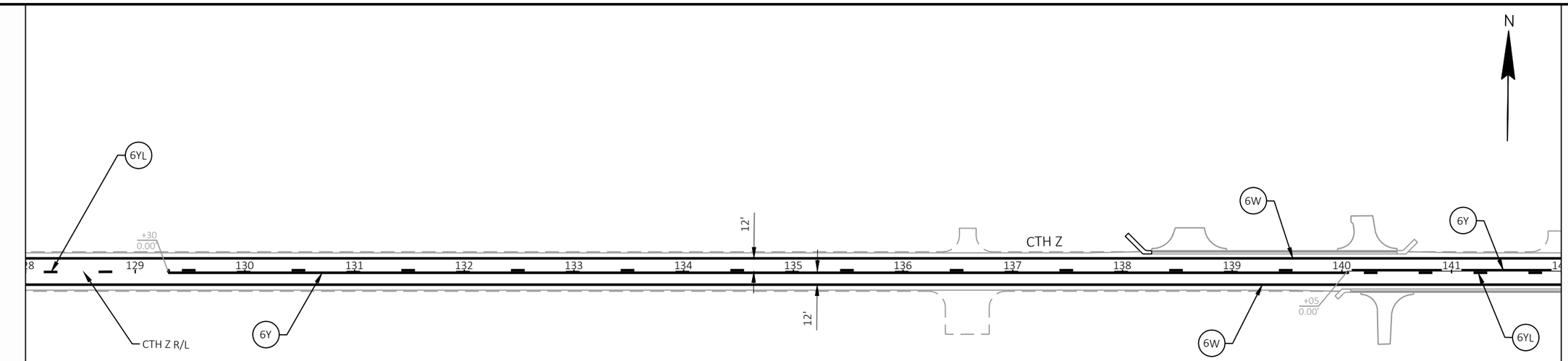
- 6W — MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
- 10W — MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)
- 18W — MARKING STOP LINE EPOXY 18-INCH (WHITE)
- 6Y — MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) *
- 6YL — MARKING LINE GROOVED WET REF EPOXY 6-INCH (12.5' LINE, 37.5' GAP, YELLOW)
- 4R — MARKING REMOVAL LINE 4-INCH

* NOTE: FOR CENTERLINE AND EDGE LINE MARKINGS, SEE SDD PERMANENT LONGITUDINAL PAVEMENT MARKINGS. DASHED CENTERLINE MARKINGS ARE APPROXIMATE. CONTRACTOR TO LOCATE NO PASSING ZONES.

** NOTES DOUBLE YELLOW LINE

SHEET 1 OF 5

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	PAVEMENT MARKING	SHEET 34	E

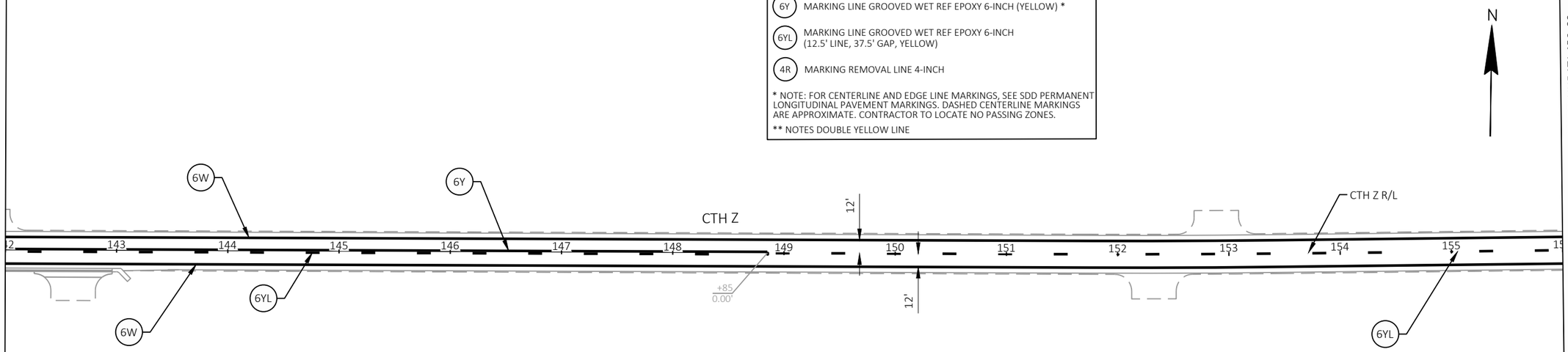


PAVEMENT MARKING LEGEND

- 6W — MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
- 10W — MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)
- 18W — MARKING STOP LINE EPOXY 18-INCH (WHITE)
- 6Y — MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) *
- 6YL — MARKING LINE GROOVED WET REF EPOXY 6-INCH (12.5' LINE, 37.5' GAP, YELLOW)
- 4R — MARKING REMOVAL LINE 4-INCH

* NOTE: FOR CENTERLINE AND EDGE LINE MARKINGS, SEE SDD PERMANENT LONGITUDINAL PAVEMENT MARKINGS. DASHED CENTERLINE MARKINGS ARE APPROXIMATE. CONTRACTOR TO LOCATE NO PASSING ZONES.

** NOTES DOUBLE YELLOW LINE



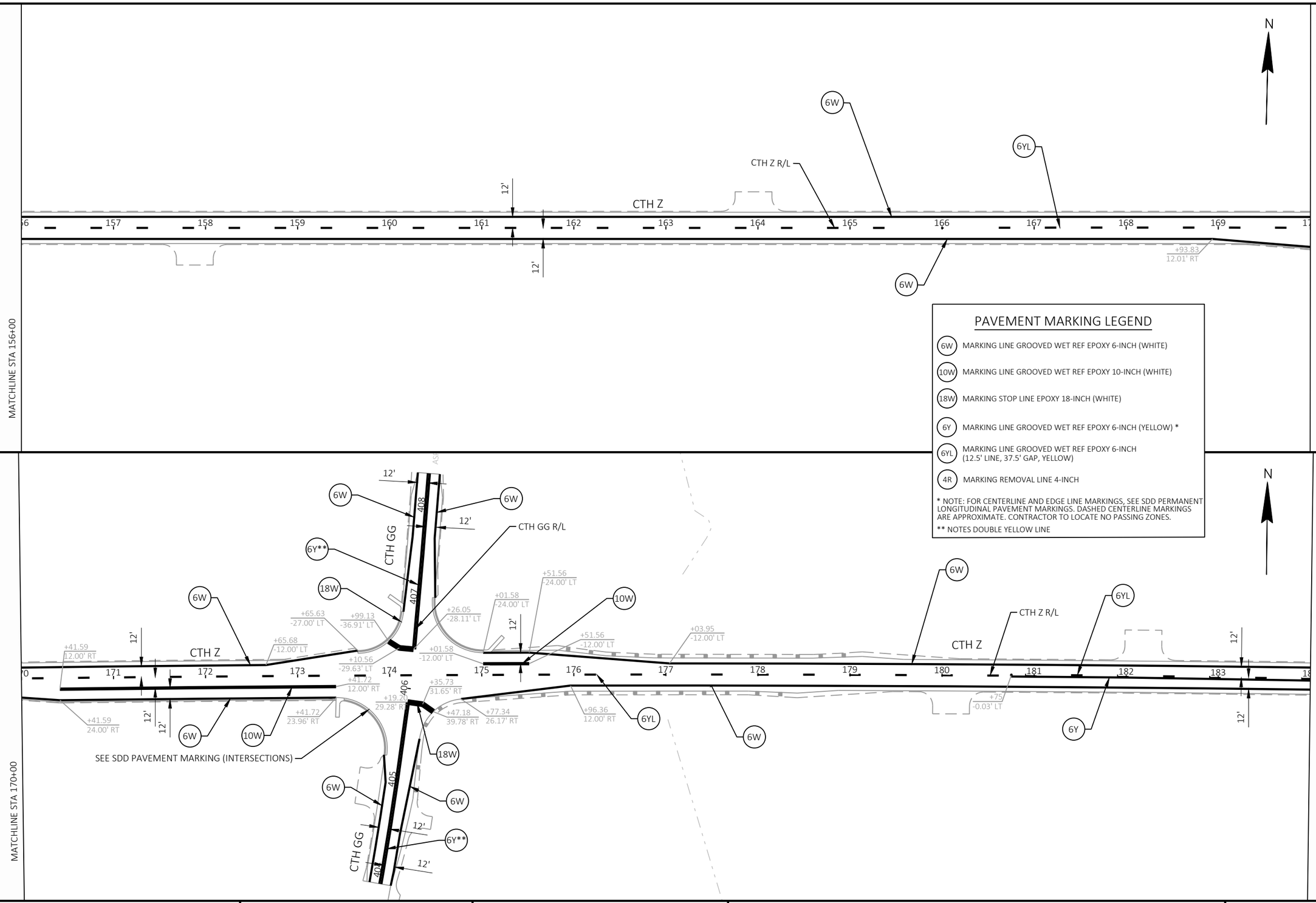
SHEET 2 OF 5

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	PAVEMENT MARKING	SHEET 35	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 02

PLOT DATE : 7/3/2024 2:14 PM PLOT BY : MAZARIEGOS, JAIRO PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



PAVEMENT MARKING LEGEND

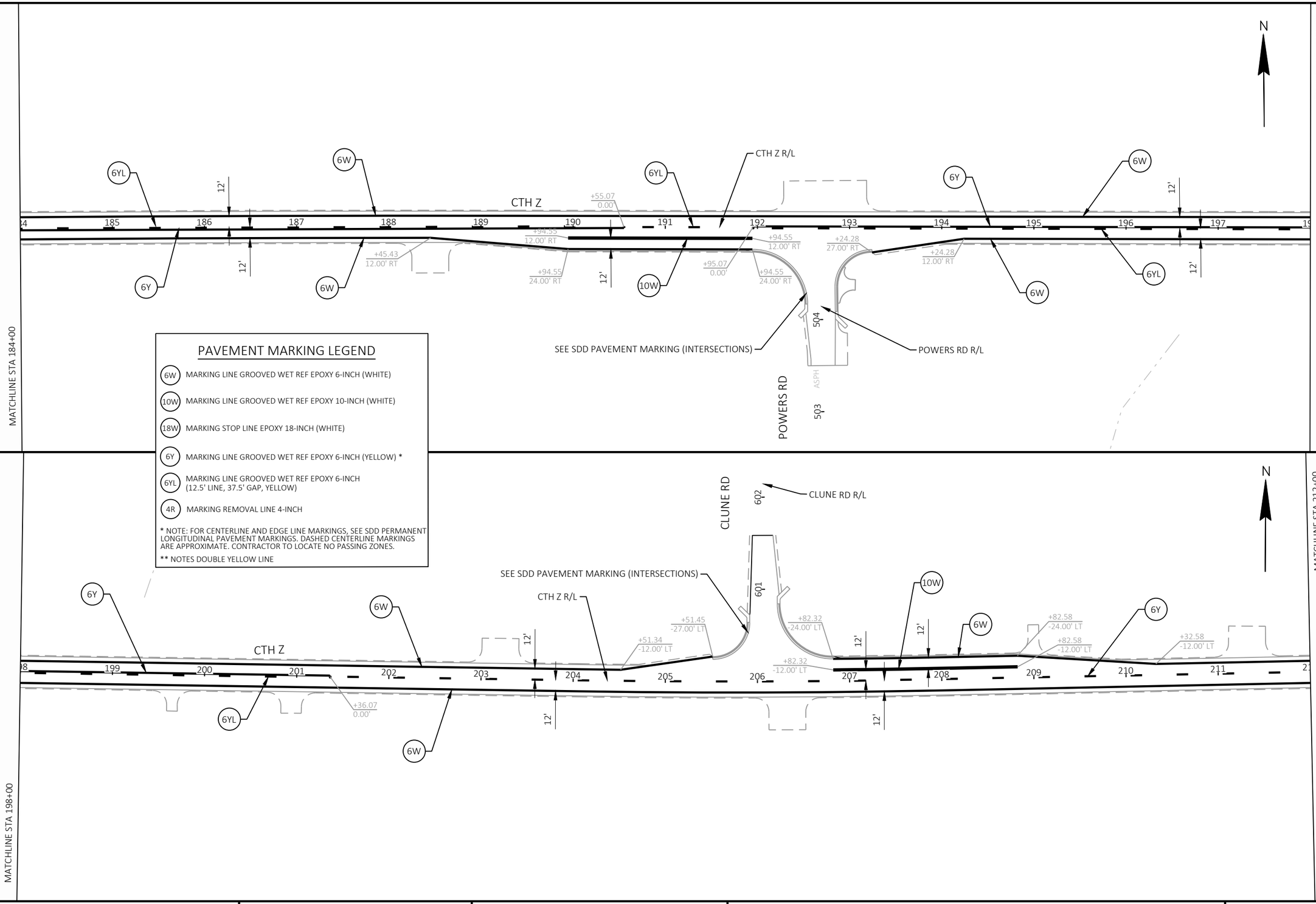
- 6W — MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
- 10W — MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)
- 18W — MARKING STOP LINE EPOXY 18-INCH (WHITE)
- 6Y — MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) *
- 6YL — MARKING LINE GROOVED WET REF EPOXY 6-INCH (12.5' LINE, 37.5' GAP, YELLOW)
- 4R — MARKING REMOVAL LINE 4-INCH

* NOTE: FOR CENTERLINE AND EDGE LINE MARKINGS, SEE SDD PERMANENT LONGITUDINAL PAVEMENT MARKINGS. DASHED CENTERLINE MARKINGS ARE APPROXIMATE. CONTRACTOR TO LOCATE NO PASSING ZONES.

** NOTES DOUBLE YELLOW LINE

SHEET 3 OF 5

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	PAVEMENT MARKING	SHEET 36	E



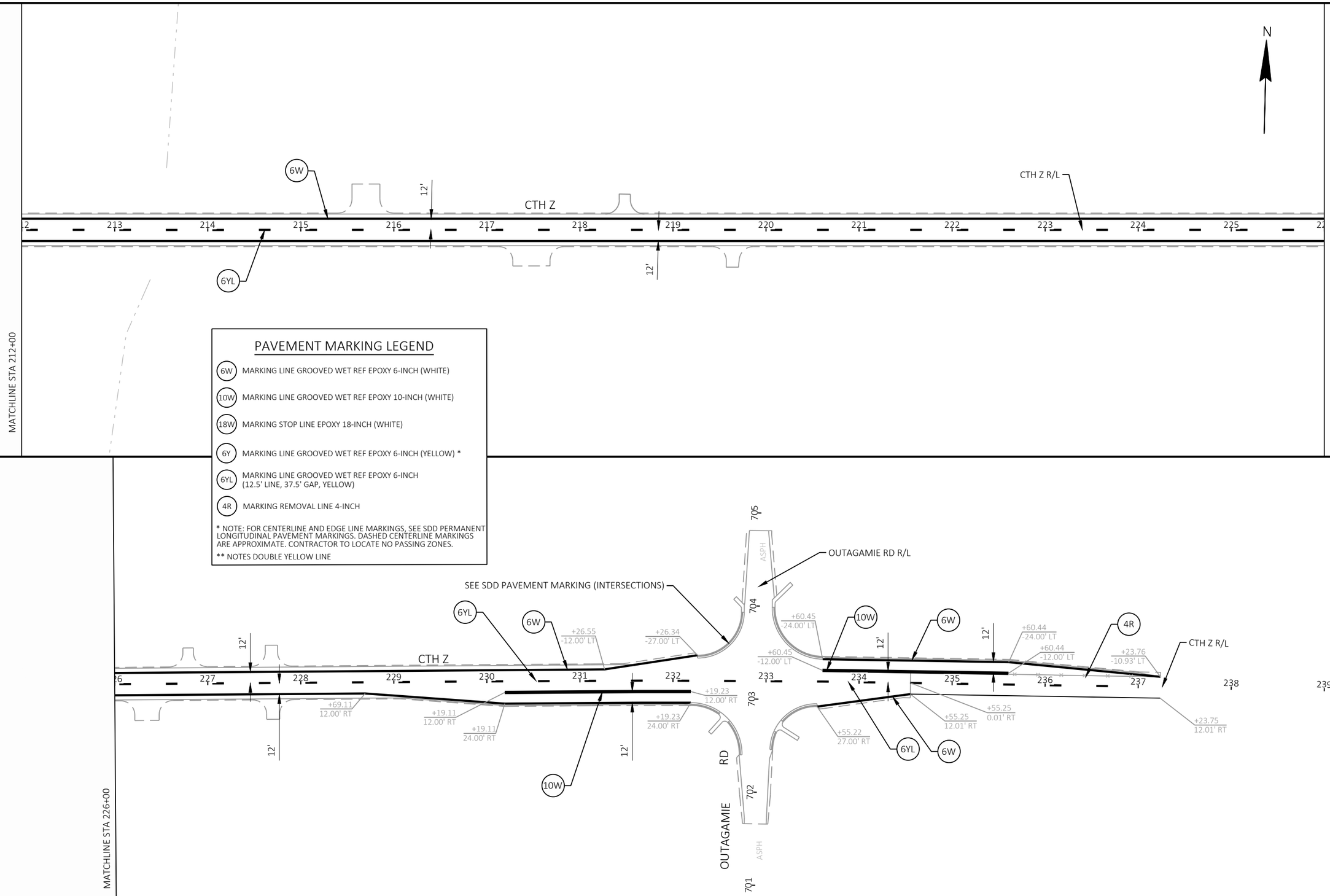
SHEET 4 OF 5

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	PAVEMENT MARKING	SHEET 37	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 04

PLOT DATE : 7/3/2024 2:14 PM PLOT BY : MAZARIEGOS, JAIRO PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

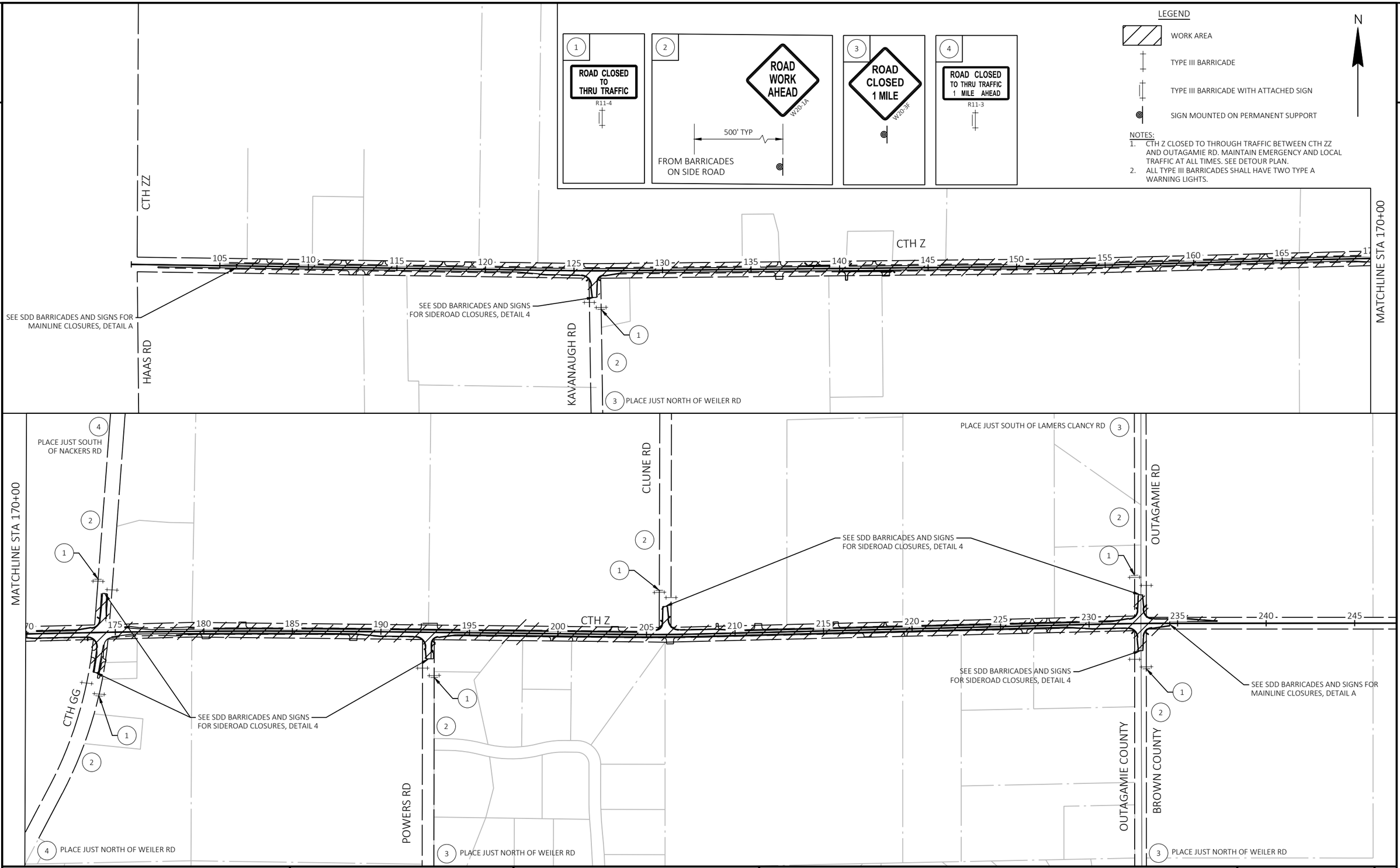


SHEET 5 OF 5

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	PAVEMENT MARKING	SHEET 38	E

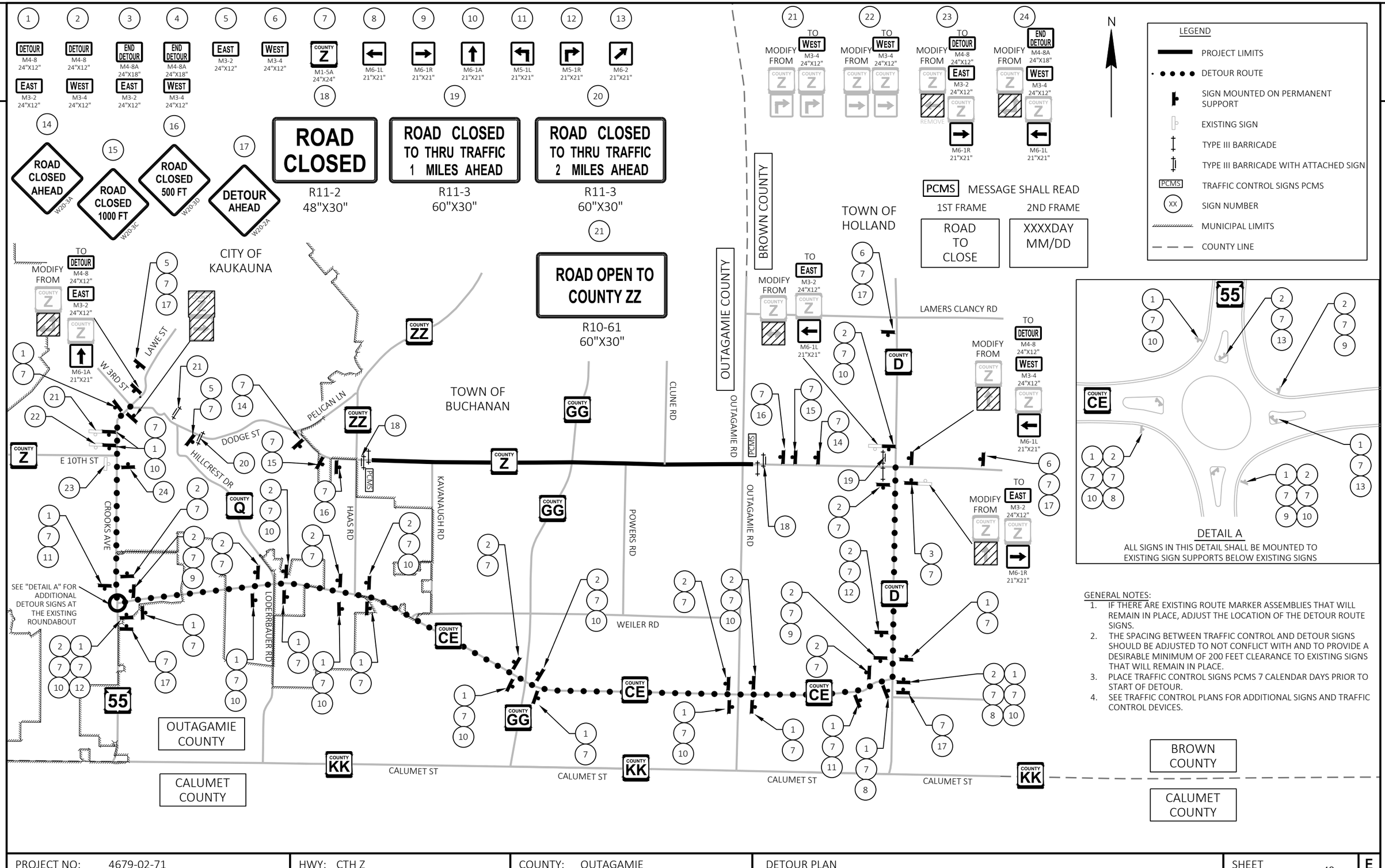
FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 05

PLOT DATE : 7/3/2024 2:14 PM PLOT BY : MAZARIEGOS, JAIRO PLOT NAME : PLOT SCALE : 1 IN:100 FT



PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	TRAFFIC CONTROL	SHEET 39	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\020201-TC.DWG
LAYOUT NAME - Plan 1 IN 500 FT
PLOT DATE : 7/3/2024 2:15 PM
PLOT BY : MAZARIEGOS, JAIRO
PLOT NAME :
PLOT SCALE : 1 IN:500 FT
WISDOT/CADDS SHEET 42

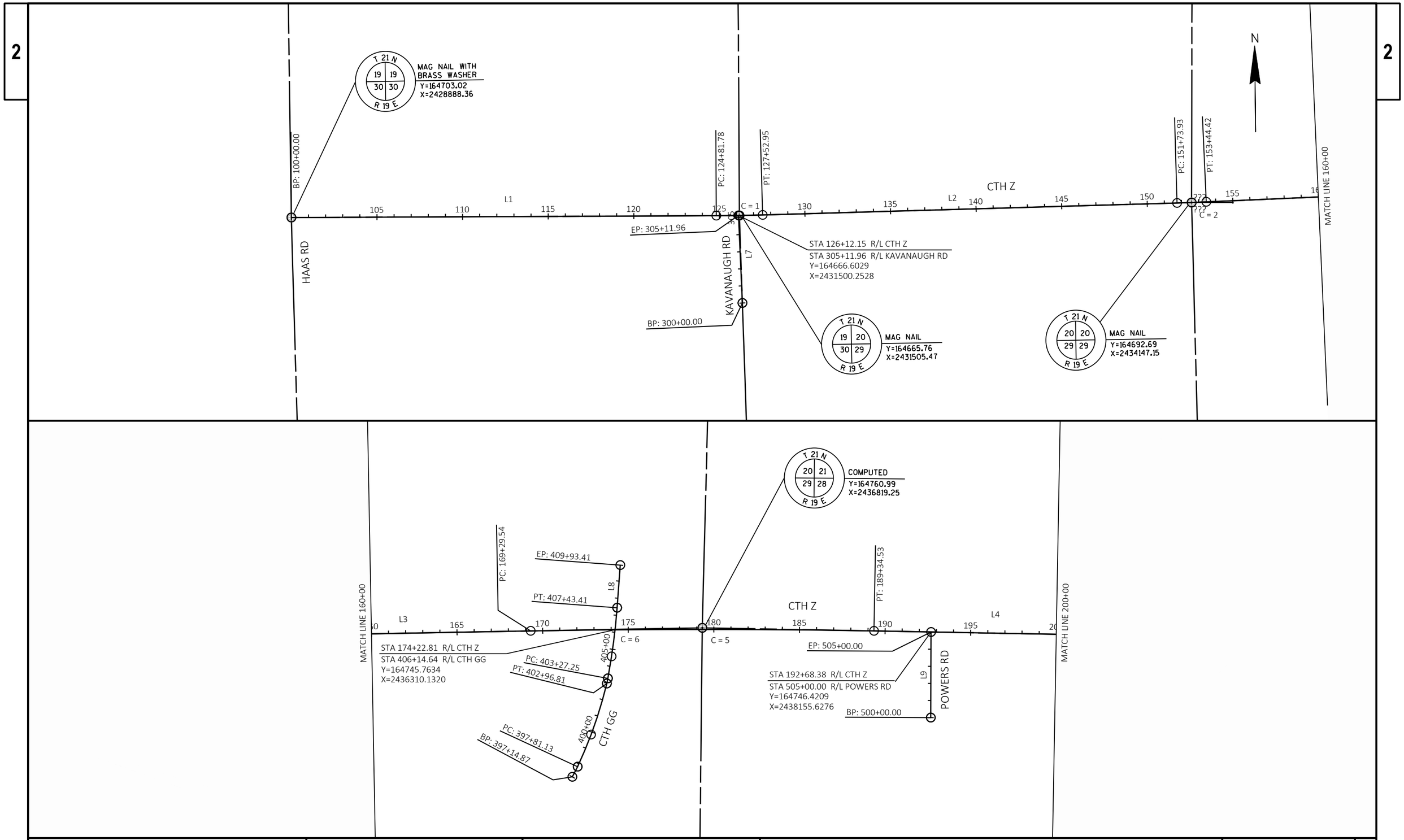


GENERAL NOTES:

1. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS.
2. THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.
3. PLACE TRAFFIC CONTROL SIGNS PCMS 7 CALENDAR DAYS PRIOR TO START OF DETOUR.
4. SEE TRAFFIC CONTROL PLANS FOR ADDITIONAL SIGNS AND TRAFFIC CONTROL DEVICES.

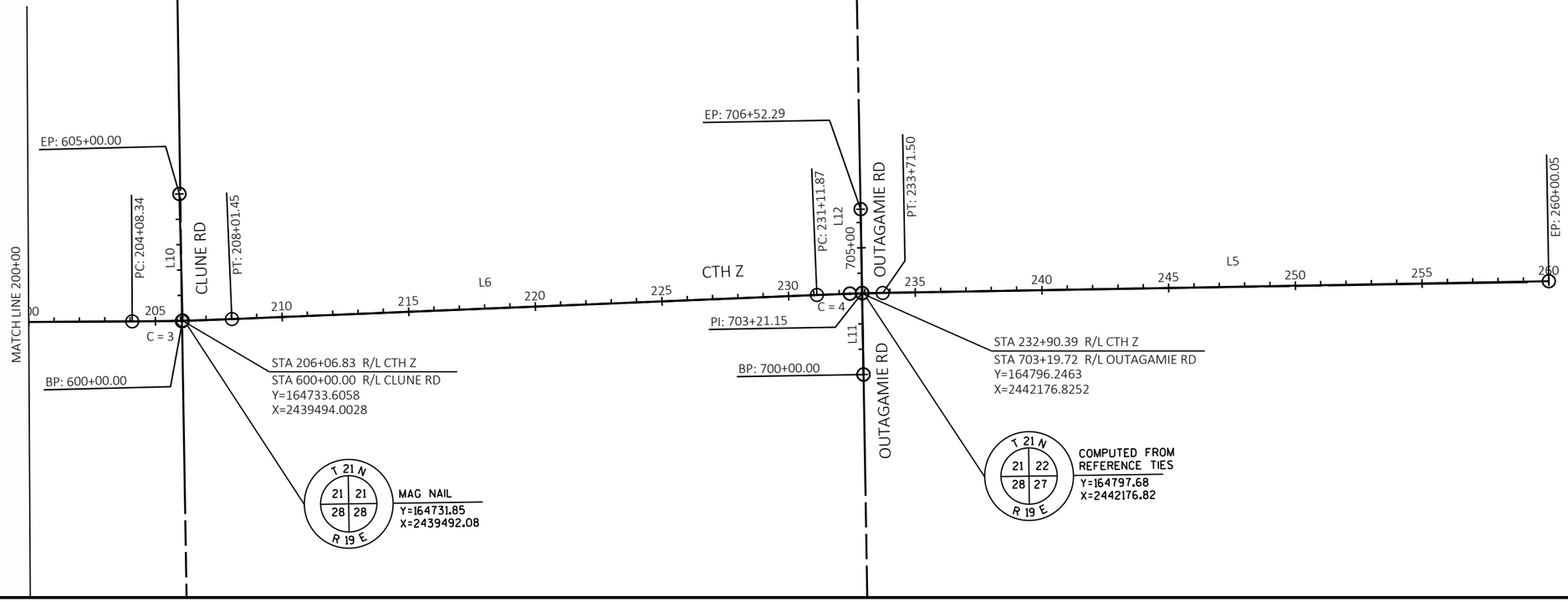
PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	DETOUR PLAN	SHEET 40	E

2



PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	ALIGNMENT PLAN	SHEET 41	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\027201-AD.DWG
LAYOUT NAME - 027201-01-ad
PLOT DATE : 7/8/2024 3:11 PM
PLOT BY : SIEBERT, LUKE
PLOT NAME :
PLOT SCALE : 1 IN:500 FT
WISDOT/CADDS SHEET 44



CTH Z																
NUMBER	BEGIN LINE (STA)	END LINE (STA)	BEGIN LINE (Y,X)	END LINE (Y,X)	PI (STA)	PI (Y,X)	DELTA	DEGREE	TANGENT	LENGTH	EXTERNAL	RADIUS	PC (STA)	PT (STA)	BEARING BACK	BEARING AHEAD
L1	100+00.00	124+81.78	164703.02 2428888.36	164667.69 2431369.89						2481.78'						S89°11'03.6"E
C = 1	124+81.78	127+52.95	124+81.78	127+52.95	126+17.37	164665.76 2431505.47	1°23'59"	0°30'58"	135.59'	271.17'	0.83'	11100.00'	124+81.78	127+52.95	S89°11'03.6"E	N89°24'57.4"E
L2	127+52.95	151+73.93	164667.15 2431641.05	164691.82 2434061.91						2420.98'						N89°24'57.4"E
C = 2	151+73.93	153+44.42	151+73.93	153+44.42	152+59.18	164692.69 2434147.15	0°52'48"	0°30'58"	85.25'	170.50'	0.33'	11100.00'	151+73.93	153+44.42	N89°24'57.4"E	N88°32'09.2"E
L3	153+44.42	169+29.54	164694.87 2434232.37	164735.37 2435816.98						1585.12'						N88°32'09.2"E
C = 5	169+29.54	189+34.53	169+29.54	189+34.53	179+32.15	164760.99 2436819.25	2°05'19"	0°06'15"	1002.61'	2004.99'	9.14'	55000.00'	169+29.54	189+34.53	N88°32'09.2"E	S89°22'31.6"E
L4	189+34.53	204+08.34	164750.06 2437821.80	164733.99 2439295.52						1473.80'						S89°22'31.6"E
C = 3	204+08.34	208+01.45	204+08.34	208+01.45	206+04.92	164731.85 2439492.08	2°01'45"	0°30'58"	196.58'	393.12'	1.74'	11100.00'	204+08.34	208+01.45	S89°22'31.6"E	N88°35'43.4"E
L6	208+01.45	231+11.87	164736.67 2439688.60	164793.31 2441998.32						2310.41'						N88°35'43.4"E
C = 4	231+11.87	233+71.50	231+11.87	233+71.50	232+41.69	164796.49 2442128.11	1°20'25"	0°30'58"	129.82'	259.63'	0.76'	11100.00'	231+11.87	233+71.50	N88°35'43.4"E	N89°56'07.9"E
L5	233+71.50	260+00.05	164796.63 2442257.93	164799.59 2444886.48						2628.55'						N89°56'07.9"E

Kavanaugh Rd																
NUMBER	BEGIN LINE (STA)	END LINE (STA)	BEGIN LINE (Y,X)	END LINE (Y,X)	PI (STA)	PI (Y,X)	DELTA	DEGREE	TANGENT	LENGTH	EXTERNAL	RADIUS	PC (STA)	PT (STA)	BEARING BACK	BEARING AHEAD
L7	300+00.00	305+11.96	164154.80 2431513.15	164666.60 2431500.25						511.96'						N1°26'34.8"W

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	ALIGNMENT PLAN	SHEET 42	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\027201-AD.DWG
LAYOUT NAME - 027201-02-ad
PLOT DATE : 7/3/2024 2:17 PM PLOT BY : MAZARIEGOS, JAIRO PLOT NAME : PLOT SCALE : 1 IN:500 FT

2

CTH GG																
NUMBER	BEGIN LINE (STA)	END LINE (STA)	BEGIN LINE (Y,X)	END LINE (Y,X)	PI (STA)	PI (Y,X)	DELTA	DEGREE	TANGENT	LENGTH	EXTERNAL	RADIUS	PC (STA)	PT (STA)	BEARING BACK	BEARING AHEAD
C = 6	403+27.25	407+43.41	403+27.25	407+43.41	405+35.55	164666.25 2436306.96	6°21'54"	1°31'46"	208.30'	416.16'	5.79'	3746.16'	403+27.25	407+43.41	N10°14'22.1"E	N3°52'28.0"E
L8	407+43.41	409+93.41	164874.07 2436321.04	165123.49 2436337.93						250.00'						N3°52'28.0"E

Powers Rd																
NUMBER	BEGIN LINE (STA)	END LINE (STA)	BEGIN LINE (Y,X)	END LINE (Y,X)	PI (STA)	PI (Y,X)	DELTA	DEGREE	TANGENT	LENGTH	EXTERNAL	RADIUS	PC (STA)	PT (STA)	BEARING BACK	BEARING AHEAD
L9	500+00.00	505+00.00	164246.42 2438157.17	164746.42 2438155.63						500.00'						N0°10'35.3"W

Clune Rd																
NUMBER	BEGIN LINE (STA)	END LINE (STA)	BEGIN LINE (Y,X)	END LINE (Y,X)	PI (STA)	PI (Y,X)	DELTA	DEGREE	TANGENT	LENGTH	EXTERNAL	RADIUS	PC (STA)	PT (STA)	BEARING BACK	BEARING AHEAD
L10	600+00.00	605+00.00	164733.61 2439494.00	165233.59 2439490.07						500.00'						N0°27'02.2"W

Outagamie Rd																
NUMBER	BEGIN LINE (STA)	END LINE (STA)	BEGIN LINE (Y,X)	END LINE (Y,X)	PI (STA)	PI (Y,X)	DELTA	DEGREE	TANGENT	LENGTH	EXTERNAL	RADIUS	PC (STA)	PT (STA)	BEARING BACK	BEARING AHEAD
L11	700+00.00	703+21.15	164476.53 2442176.88	164797.68 2442176.82						321.15'						N0°00'36.1"W
L12	703+21.15	706+52.29	164797.68 2442176.82	165128.82 2442176.35						331.14'						N0°04'53.6"W

Estimate Of Quantities

4679-02-71

Line	Item	Item Description	Unit	Total	Qty
0002	201.0205	Grubbing	STA	23.000	23.000
0004	201.0220	Grubbing	ID	13.000	13.000
0006	203.0100	Removing Small Pipe Culverts	EACH	40.000	40.000
0008	203.0220	Removing Structure (structure) 01. 70"X81" CMP, 198+00	EACH	1.000	1.000
0010	204.0165	Removing Guardrail	LF	667.000	667.000
0012	204.0170	Removing Fence	LF	296.000	296.000
0014	204.0185	Removing Masonry	CY	0.300	0.300
0016	205.0100	Excavation Common	CY	71,248.000	71,248.000
0018	205.0400	Excavation Marsh	CY	12,827.000	12,827.000
0020	208.1100	Select Borrow	CY	19,241.000	19,241.000
0022	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	5.000	5.000
0024	213.0100	Finishing Roadway (project) 01. 4679-02-71	EACH	1.000	1.000
0026	305.0110	Base Aggregate Dense 3/4-Inch	TON	3,310.000	3,310.000
0028	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	47,570.000	47,570.000
0030	311.0110	Breaker Run	TON	58,221.000	58,221.000
0032	371.2000.S	QMP Base Aggregate Dense 1 1/4-Inch Compaction	EACH	10.000	10.000
0034	455.0605	Tack Coat	GAL	2,865.000	2,865.000
0036	460.2000	Incentive Density HMA Pavement	DOL	10,620.000	10,620.000
0038	460.5223	HMA Pavement 3 LT 58-28 S	TON	9,985.000	9,985.000
0040	460.5224	HMA Pavement 4 LT 58-28 S	TON	6,670.000	6,670.000
0042	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	95.000	95.000
0044	465.0315	Asphaltic Flumes	SY	184.000	184.000
0046	465.0520	Asphaltic Rumble Strips, Shoulder	LF	20,488.000	20,488.000
0048	465.0560	Asphaltic Rumble Strips, Centerline	LF	10,896.000	10,896.000
0050	521.0336	Apron Endwalls for Culvert Pipe Sloped Cross Drains Steel 36-Inch 4 to 1	EACH	4.000	4.000
0052	521.0342	Apron Endwalls for Culvert Pipe Sloped Cross Drains Steel 42-Inch 4 to 1	EACH	4.000	4.000
0054	521.0542	Apron Endwalls for Pipe Arch Sloped Cross Drains Steel 42x29-Inch 4 to 1	EACH	2.000	2.000
0056	521.1012	Apron Endwalls for Culvert Pipe Steel 12-Inch	EACH	2.000	2.000
0058	521.1518	Apron Endwalls for Culvert Pipe Sloped Side Drains Steel 18-Inch 6 to 1	EACH	48.000	48.000
0060	521.1524	Apron Endwalls for Culvert Pipe Sloped Side Drains Steel 24-Inch 6 to 1	EACH	4.000	4.000
0062	521.1721	Apron Endwalls for Pipe Arch Sloped Side Drains Steel 21x15-Inch 6 to 1	EACH	2.000	2.000
0064	521.3112	Culvert Pipe Corrugated Steel 12-Inch	LF	38.000	38.000
0066	521.3118	Culvert Pipe Corrugated Steel 18-Inch	LF	1,222.000	1,222.000
0068	521.3124	Culvert Pipe Corrugated Steel 24-Inch	LF	151.000	151.000
0070	521.3721	Pipe Arch Corrugated Steel 21x15-Inch	LF	61.000	61.000
0072	522.0124	Culvert Pipe Reinforced Concrete Class III 24-Inch	LF	68.000	68.000
0074	522.0136	Culvert Pipe Reinforced Concrete Class III 36-Inch	LF	152.000	152.000
0076	522.0172	Culvert Pipe Reinforced Concrete Class III 72-Inch	LF	102.000	102.000
0078	522.0424	Culvert Pipe Reinforced Concrete Class IV 24-Inch	LF	130.000	130.000
0080	522.0442	Culvert Pipe Reinforced Concrete Class IV 42-Inch	LF	118.000	118.000
0082	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	6.000	6.000
0084	522.1072	Apron Endwalls for Culvert Pipe Reinforced Concrete 72-Inch	EACH	2.000	2.000
0086	522.2424	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 24x38-Inch	LF	60.000	60.000
0088	522.2429	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 29x45-Inch	LF	50.000	50.000
0090	522.2434	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 34x53-Inch	LF	88.000	88.000
0092	522.2624	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 24x38-Inch	EACH	2.000	2.000
0094	522.2634	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 34x53-Inch	EACH	2.000	2.000
0096	601.0553	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type D	LF	512.000	512.000
0098	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	987.000	987.000

4679-02-71

Line	Item	Item Description	Unit	Total	Qty
0100	606.0200	Riprap Medium	CY	188.000	188.000
0102	614.2300	MGS Guardrail 3	LF	550.000	550.000
0104	614.2350	MGS Guardrail Short Radius	LF	67.400	67.400
0106	614.2610	MGS Guardrail Terminal EAT	EACH	4.000	4.000
0108	619.1000	Mobilization	EACH	1.000	1.000
0110	624.0100	Water	MGAL	995.000	995.000
0112	625.0500	Salvaged Topsoil	SY	73,952.000	73,952.000
0114	627.0200	Mulching	SY	56,690.000	56,690.000
0116	628.1504	Silt Fence	LF	4,830.000	4,830.000
0118	628.1520	Silt Fence Maintenance	LF	2,440.000	2,440.000
0120	628.1905	Mobilizations Erosion Control	EACH	10.000	10.000
0122	628.1910	Mobilizations Emergency Erosion Control	EACH	5.000	5.000
0124	628.2004	Erosion Mat Class I Type B	SY	16,920.000	16,920.000
0126	628.2008	Erosion Mat Urban Class I Type B	SY	22,530.000	22,530.000
0128	628.2027	Erosion Mat Class II Type C	SY	150.000	150.000
0130	628.7504	Temporary Ditch Checks	LF	2,780.000	2,780.000
0132	628.7555	Culvert Pipe Checks	EACH	54.000	54.000
0134	628.7560	Tracking Pads	EACH	8.000	8.000
0136	628.7570	Rock Bags	EACH	151.000	151.000
0138	629.0210	Fertilizer Type B	CWT	96.300	96.300
0140	630.0130	Seeding Mixture No. 30	LB	3,565.000	3,565.000
0142	630.0140	Seeding Mixture No. 40	LB	1,017.000	1,017.000
0144	630.0200	Seeding Temporary	LB	2,338.000	2,338.000
0146	630.0300	Seeding Borrow Pit	LB	95.000	95.000
0148	630.0500	Seed Water	MGAL	2,688.000	2,688.000
0150	633.5200	Markers Culvert End	EACH	22.000	22.000
0152	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	1.000	1.000
0154	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	27.000	27.000
0156	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	4.000	4.000
0158	637.2210	Signs Type II Reflective H	SF	124.870	124.870
0160	637.2230	Signs Type II Reflective F	SF	78.250	78.250
0162	638.2102	Moving Signs Type II	EACH	3.000	3.000
0164	638.2602	Removing Signs Type II	EACH	39.000	39.000
0166	638.3000	Removing Small Sign Supports	EACH	23.000	23.000
0168	642.5201	Field Office Type C	EACH	1.000	1.000
0170	643.0300	Traffic Control Drums	DAY	56,710.000	56,710.000
0172	643.0420	Traffic Control Barricades Type III	DAY	5,868.000	5,868.000
0174	643.0705	Traffic Control Warning Lights Type A	DAY	11,736.000	11,736.000
0176	643.0715	Traffic Control Warning Lights Type C	DAY	110.000	110.000
0178	643.0900	Traffic Control Signs	DAY	47,288.000	47,288.000
0180	643.0920	Traffic Control Covering Signs Type II	EACH	8.000	8.000
0182	643.1050	Traffic Control Signs PCMS	DAY	28.000	28.000
0184	643.5000	Traffic Control	EACH	1.000	1.000
0186	645.0120	Geotextile Type HR	SY	500.000	500.000
0188	645.0220	Geogrid Type SR	SY	18,180.000	18,180.000
0190	646.2040	Marking Line Grooved Wet Ref Epoxy 6-Inch	LF	37,660.000	37,660.000
0192	646.4040	Marking Line Grooved Wet Ref Epoxy 10-Inch	LF	1,670.000	1,670.000
0194	646.6120	Marking Stop Line Epoxy 18-Inch	LF	65.000	65.000
0196	646.9000	Marking Removal Line 4-Inch	LF	165.000	165.000

Estimate Of Quantities

4679-02-71

Line	Item	Item Description	Unit	Total	Qty
0198	648.0100	Locating No-Passing Zones	MI	3.040	3.040
0200	650.4500	Construction Staking Subgrade	LF	13,130.000	13,130.000
0202	650.5000	Construction Staking Base	LF	13,914.000	13,914.000
0204	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	1,499.000	1,499.000
0206	650.6000	Construction Staking Pipe Culverts	EACH	12.000	12.000
0208	650.9911	Construction Staking Supplemental Control (project) 01. 4679-02-71	EACH	1.000	1.000
0210	650.9920	Construction Staking Slope Stakes	LF	13,914.000	13,914.000
0212	690.0150	Sawing Asphalt	LF	1,136.000	1,136.000
0214	740.0440	Incentive IRI Ride	DOL	19,490.000	19,490.000
0216	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,400.000	2,400.000
0218	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	2,100.000	2,100.000
0220	SPV.0035	Special 01. Foundation Backfill	CY	851.000	851.000
0222	SPV.0060	Special 01. Apron Endwalls for Culvert Pipe Sloped Cross Drains Steel 48X76-Inch 4 to 1	EACH	2.000	2.000
0224	SPV.0060	Special 02. Settlement Gauges	EACH	8.000	8.000
0226	SPV.0090	Special 01. Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 48x76-Inc	LF	50.000	50.000

GRUBBING*

CATEGORY	STATION	TO	STATION	LOCATION	201.0205 GRUBBING STA	201.0220 GRUBBING ID
0020	105+00	-	107+00	LT	2	---
				TOTAL 0020	**2**	**---**
0010	150+00	-	153+00	LT	3	---
	150+00	-	152+00	RT	2	---
	152+60	-	152+60	RT	---	6
	404+00	-	405+00	CTH GG RT	1	---
	175+00	-	176+00	RT	1	---
	176+00	-	177+00	RT	1	---
	177+00	-	180+00	LT	3	---
	197+00	-	198+00	RT	1	---
	198+00	-	199+00	LT	1	---
	199+00	-	200+00	LT	1	---
	201+00	-	202+00	RT	1	---
	203+12	-	203+12	RT	---	4
	227+00	-	233+00	RT	6	---
	702+11	-	702+11	OUTAGAMIE RD LT	---	3
				TOTAL 0010	**21**	**13**
				PROJECT TOTAL	**23**	**13**

*CLEARING PERFORMED BY OTHERS.

REMOVING STRUCTURES

CATEGORY	STATION	OFFSET	203.0220.01 REMOVING STRUCTURE STA 198+00 EACH	REMARKS
0010	198+00	37.16 RT - 27.28 LT	1	CMP 70"X81", 91 LF
		PROJECT TOTAL	**1**	

REMOVING FENCE

CATEGORY	STATION	TO	STATION	LOCATION	204.0170 REMOVING FENCE LF	REMARKS
0010						
	177+92	-	179+92	RT	206	---
	209+31	-	210+08	LT	90	SALVAGE EXISTING FENCE TO BE GIVEN TO LANDOWNER
				PROJECT TOTAL	**296**	

REMOVING SMALL CULVERT PIPES

CATEGORY	STATION	OFFSET	203.0100 REMOVING SMALL PIPE CULVERTS EACH	REMARKS
0020	107+55	33.19 LT	1	CMP 18", 33 LF
	109+49	24.82 LT - 27.43 RT	1	CMP 36", 55 LF
	109+89	32.73 LT	1	CMP 12", 31 LF
	111+98	32.42 LT	1	CMP 18", 38 LF
	113+26	33.92 RT	1	CMP 18", 32 LF
	114+81	31.27 LT	1	CMP 18", 33 LF
	117+61	32.94 LT	1	CMP 18", 33 LF
	119+00	31.97 LT	1	CMP 18", 29 LF
	119+89	33.25 LT	1	CMP 18", 27 LF
	122+29	24.80 LT - 28.30 RT	1	CMP 36", 53 LF
		TOTAL 0020	**10**	
0010	129+73	28.14 LT - 23.66 RT	1	CMP 36", 52 LF
	136+60	31.14 LT	1	CMP 18", 32 LF
	136+65	35.56 RT	1	CMP 18", 35 LF
	138+54	31.83 LT	1	CMP 18", 55 LF
	141+96	29.59 LT	1	CMP 18", 32 LF
	142+59	32.64 RT	1	CMP 18", 33 LF
	149+11	25.89 LT - 28.20 RT	1	CMP 36", 54.LF
	152+40	32.41 RT	1	CMP 18", 32 LF
	152+75	31.89 LT	1	CMP 18", 32 LF
	157+88	33.20 RT	1	CMP 18", 33 LF
	160+51	25.93 LT - 27.23 RT	1	CMP 24", 53 LF
	173+41	28.15 LT - 25.18 RT	1	CMP 24", 54 LF
	173+78	105.00 RT	1	CMP 18", 33 LF
	175+54	18.41 RT	1	CMP 18", 33 LF
	180+03	27.62 RT	1	CMP 18", 32 LF
	182+12	37.72 LT	1	CMP 18", 33 LF
	188+48	32.63 RT	1	CMP 24", 33 LF
	200+97	35.05 RT	1	CMP 18", 33 LF
	203+20	31.05 LT	1	CMP 18", 35 LF
	206+25	38.06 RT	1	CMP 18", 33 LF
	208+97	30.55 LT	1	CMP 18", 29 LF
	211+27	30.23 LT	1	CMP 18", 32 LF
	213+51	23.01 LT - 29.86 RT	1	CMP 57"X36", 53 LF
	219+67	34.54 RT	1	CMP 18", 33 LF
	221+50	24.07 LT - 28.73 RT	1	CMP 36", 53 LF
	226+33	34.85 RT	1	CMP 18", 32 LF
	226+79	30.49 LT	1	CMP 12", 33 LF
	232+89	42.08 LT	1	CMP 24", 44 LF
	232+92	41.55 RT	1	CMP 18", 43 LF
	233+20	30.88 LT - 29.69 RT	1	CMP 42", 61 LF
		TOTAL 0010	**30**	
		PROJECT TOTAL	**40**	

3

REMOVING GUARDRAIL

CATEGORY	STATION	TO	STATION	LOCATION	204.0165 REMOVING GUARDRAIL LF
0010	176+40	-	177+69	LT	129
	176+39	-	177+69	RT	130
	197+41	-	199+69	RT	228
	197+09	-	198+88	LT	180
				PROJECT TOTAL	**667**

REMOVING MASONRY

CATEGORY	STATION	LOCATION	204.0185 REMOVING MASONRY CY
0010	213+51	23.01 LT - 29.86 RT	0.2
	221+50	24.07 LT - 28.73 RT	0.1
		PROJECT TOTAL	**0.3**

3

BASE AGGREGATE DENSE

CATEGORY		STATION	TO	STATION	LOCATION	211.0400 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS STA	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	* 311.0110 BREAKER RUN TON	624.0100 WATER AGGREGATE COMPACTION MGAL	624.0100 WATER DUST CONTROL MGAL
0020	CTH Z	101+50	-	105+94	ADDING PAVED SHOULDER, RT	5	30	---	---	5	2
		105+05	-	105+94	WIDEN SHOULDER, LT	---	10	80	50	20	10
		105+94	-	125+85	WEST PROJECT LIMIT - KAVANAUGH RD	---	600	6,700	5,600	110	24
					SUBTOTAL	5	640	6,780	5,650	135	36
					TOTAL 0020	**5**	**640**	**6,780**	**5,650**	**171**	
0010	CTH Z	125+85	-	174+23	KAVANAUGH RD - CTH GG	---	890	16,320	13,840	259	55
		174+23	-	192+71	CTH GG - POWERS RD	---	550	6,780	5,940	110	42
		192+71	-	206+09	POWERS RD - CLUNE RD	---	330	4,580	3,890	74	17
		206+09	-	237+24	CLUNE RD - OUTAGAMIE RD (END OF PROJECT)	---	670	10,520	9,040	168	37

	SIDEROADS	303+61.95	-	304+60	KAVANAUGH ROAD	---	20	290	100	5	2
		403+56.88	-	405+60	CTH GG	---	100	590	540	10	4
		406+65	-	408+34.71	CTH GG	---	30	560	480	9	4
		503+50	-	504+40	POWERS ROAD	---	20	280	70	5	2
		600+55.24	-	602+50	CLUNE ROAD	---	20	310	90	5	2
		701+65.98	-	702+60.22	OUTAGAMIE ROAD	---	20	280	70	5	2
		703+80.87	-	704+81.07	OUTAGAMIE ROAD	---	20	280	60	5	2
					SUBTOTAL	---	2,670	40,790	34,120	655	169
					TOTAL 0010	**---**	**2,670**	**40,790**	**34,120**	**824**	
					PROJECT TOTAL	**5**	**3,310**	**47,570**	**39,770**	**995**	

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE IN PLANS. SEE EARTHWORK TABLE.

EARTHWORK SUMMARY

CATERGORY	LOCATION	FROM/TO STATION	205.0100 COMMON EXCAVATION [CY] (1) CUT (2)	205.0100 COMMON EXCAVATION [CY] (1) EBS EXCAVATION (3)	* SALVAGED/ UNUSABLE PAVEMENT MATERIAL [CY] (4)	* AVAILABLE MATERIAL [CY] (5)	205.0400 MARSH EXCAVATION [CY] (6)	EXPANDED MARSH BACKFILL 208.1100 SELECT BORROW [CY] EXPANSION FACTOR 1.50	* EXPANDED EBS BACKFILL EXPANSION FACTOR 1.10	** 311.0110 BREAKER RUN [TON] CONVERSION FACTOR 1.80	SPV.0035.01 FOUNDATION BACKFILL [CY] (7) EXPANSION FACTOR 1.15	* UNEXPANDED FILL [CY]	* EXPANDED FILL [CY] EXPANSION FACTOR 1.25	* MASS ORDINATE +/- [CY] (8)	* WASTE [CY] (9)
0020	CTH Z	105+04.84/125+85.18	7,537	1,292	1,331	6,206	0	0	1,421	2,558	0	1,142	1,430	6,068	6,068
0020	SHALLOW CULVERT TRANSITIONS	VARIOUS	265		0	265	0	0	0	0	305	0	0	265	265
0020	UNDISTRIBUTED EBS	VARIOUS	0	450	0	0	0	0	495	891	0	0	0	495	495
CATEGORY 0020 TOTALS			**9,544**		**1,331**	**6,471**	**0**	**0**	**1,916**	**3,449**	**305**	**1,142**	**1,430**	**6,828**	**6,828**
0010	CTH Z	125+85.18/237+23.76	50,654	4,577	7,120	43,534	12,827	19,241	5,035	9,062	0	14,530	18,170	42,768	42,768
0010	KAVANAUGH RD	303+61.95/304+60.00	268	0	62	206	0	0	0	0	0	0	0	206	206
0010	CTH GG - SOUTH	403+56.88/405+60.00	1,015	0	128	887	0	0	0	0	0	24	30	857	857
0010	CTH GG - NORTH	406+65.00/408+34.71	752	0	108	644	0	0	0	0	0	25	31	613	613
0010	POWERS RD	503+50.00/504+40.00	186	0	57	129	0	0	0	0	0	6	8	122	122
0010	CLUNE RD	600+55.24/601+58.54	145	0	66	79	0	0	0	0	0	101	126	-47	0
0010	OUTAGAMIE RD - SOUTH	701+65.98/702+60.22	362	0	60	302	0	0	0	0	0	44	55	247	247
0010	OUTAGAMIE RD - NORTH	703+80.87/704+81.07	270	0	64	206	0	0	0	0	0	122	153	54	54
0010	SHALLOW CULVERT TRANSITIONS	VARIOUS	475		0	475	0	0	0	0	546	0	0	475	475
0010	UNDISTRIBUTED EBS	VARIOUS	0	3,000	0	0	0	0	3,300	5,940	0	0	0	3,300	3,300
CATEGORY 0010 TOTALS			**61,704**		**7,665**	**46,462**	**12,827**	**19,241**	**8,335**	**15,002**	**546**	**14,852**	**18,573**	**48,594**	**48,641**
GRAND TOTALS			**71,248**		**8,996**	**52,933**	**12,827**	**19,241**	**10,251**	**18,451**	**851**	**15,994**	**20,003**	**55,422**	**55,469**

NOTES:

*NOT A BID ITEM, FOR INFORMATION ONLY.

**ADDITIONAL QUANTITIES ELSEWHERE IN PLANS. SEE BASE AGGREGATE DENSE TABLE.

(1) COMMON EXCAVATION IS THE SUM OF THE CUT, EBS EXCAVATION COLUMNS & SHALLOW CULVERT TRANISTIONS BELOW SUBGRADE. ITEM NUMBER 205.0100

(2) SALVAGED/UNSUABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.

(3) EBS EXCAVATION TO BE WASTED OFFSITE AND BACKFILLED WITH BREAKER RUN. ITEM NUMBER 311.0110

(4) SALVAGED/UNSUABLE PAVEMENT MATERIAL SHALL BE SALVAGED OR WASTED BY THE CONTRACTOR.

(5) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSUABLE PAVEMENT MATERIAL.

(6) MARSH EXCAVATION TO BE WASTED OFFSITE AND BACKFILLED WITH SELECT BORROW MATERIAL. ITEM NUMBER 205.0400

(7) EXCAVATION AT SHALLOW PIPE TRANSTIONS IS TO BACKFILLED WITH FOUNDATION BACKFILL. ITEM NUMBER SPV.0035.01. COMMON EXCAVATION FOR THE PIPE TRENCH IS INCIDENTAL TO THE PIPE ITEM. FOUNDATION BACKFILL SHALL BE PAID FOR BACKFILLING THE TRENCH.

(8) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE LOCATION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL. MINUS INDICATES A SHORTAGE OF MATERIAL. EXCESS MATERIAL CAN BE USED ACROSS LOCATIONS.

(9) WASTE = CUT+EBS EXCAVATION+MARSH EXCAVATION-EXPANDED FILL-SALVAGED/UNUSEABLE PAVEMENT MATERIAL

(10) FACTORS USED TO COMPUTE ANTICIPATED WASTE AND THE COMPUTED WASTE VOLUME IDENTIFIED ARE FOR GENERAL INFORMATION ONLY.

HMA PAVEMENT

CATEGORY		STATION	TO	STATION	LOCATION	455.0605 TACK COAT GAL	460.5223 HMA PAVEMENT 3 LT 58-28 S TON	460.5224 HMA PAVEMENT 4 LT 58-28 S TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON
0020	CTH Z	101+50	-	105+94	SHOULDER ONLY WORK	15	45	30	---
		105+94	-	125+85	WEST PROJECT LIMIT - KAVANAUGH RD	400	1,400	940	---
					TOTAL 0020	**415**	**1,445**	**970**	**---**
0010	CTH Z	125+85	-	174+23	KAVANAUGH RD - CTH GG	980	3,410	2,275	75
		174+23	-	192+71	CTH GG - POWERS RD	405	1,420	950	---
		192+71	-	206+09	POWERS RD - CLUNE RD	275	960	640	---
		206+09	-	237+24	CLUNE RD - OUTAGAMIE RD	635	2,235	1,495	10
	SIDEROADS	303+61.95	-	304+60	KAVANAUGH ROAD	20	60	40	---
		403+56.88	-	405+60	CTH GG	35	118	80	---
		406+65	-	408+34.71	CTH GG	35	112	75	---
		503+50	-	504+40	POWERS ROAD	15	55	35	10
		600+55.24	-	602+50	CLUNE ROAD	20	60	40	---
		701+65.98	-	702+60.22	OUTAGAMIE ROAD	15	55	35	---
		703+80.87	-	704+81.07	OUTAGAMIE ROAD	15	55	35	---
					TOTAL 0010	**2,450**	**8,540**	**5,700**	**95**
					PROJECT TOTAL	**2,865**	**9,985**	**6,670**	**95**

RUMBLE STRIPS

CATEGORY	STATION	TO	STATION	LOCATION	465.0520 ASPHALTIC RUMBLE STRIPS, SHOULDER LF	465.0560 ASPHALTIC RUMBLE STRIPS, CENTERLINE LF
0020	101+50	-	105+94	SHOULDER ONLY WORK	444	---
	105+94	-	125+85	WEST PROJECT LIMIT - KAVANAUGH RD	3,007	1,794
		-				
				TOTAL 0020	**3,451**	**1,794**
0010	125+85	-	174+23	KAVANAUGH RD - CTH GG	8,142	4,411
	174+23	-	192+71	CTH GG - POWERS RD	2,817	1,446
	192+71	-	206+09	POWERS RD - CLUNE RD	2,283	939
	206+09	-	237+24	CLUNE RD - OUTAGAMIE RD	3,795	2,306
				TOTAL 0010	**17,037**	**9,102**
				PROJECT TOTAL	**20,488**	**10,896**

ASPHALTIC FLUMES

CATEGORY	STATION	LOCATION	465.0315 ASPHALTIC FLUMES SY
0020	125+82	RT	13
		TOTAL 0020	**13**
0010	126+37	RT	12
	138+20	LT	12
	140+00	RT	7
	140+55	LT	8
	143+00	RT	8
	173+45	RT	12
	174+14	LT	11
	175+10	LT	12
	192+50	RT	7
	192+87	RT	9
	205+90	LT	9
	206+25	LT	9
	232+55	RT	15
	232+75	LT	8
	233+10	LT	15
	233+15	RT	17
		TOTAL 0010	**171**
		PROJECT TOTAL	**184**

DRIVEWAY CULVERTS

CATEGORY	STATION	OFFSET	521.1012 APRON ENDWALLS FOR CULVERT PIPE STEEL 12-INCH EACH	521.1518 APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 18-INCH 6 TO 1 EACH	521.1524 APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 24-INCH 6 TO 1 EACH	521.1721 APRON ENDWALLS FOR PIPE ARCH SLOPED SIDE DRAINS STEEL 21X15-INCH 6 TO 1 EACH	521.3112 CULVERT PIPE CORRUGATED STEEL 12-INCH LF	521.3118 CULVERT PIPE CORRUGATED STEEL 18-INCH LF	521.3124 CULVERT PIPE CORRUGATED STEEL 24-INCH LF	521.3721 PIPE ARCH CORRUGATED STEEL 21X15-INCH LF	MINIMUM METAL PIPE THICKNESS IN
0020	107+57	36.8 LT	---	2	---	---	---	68	---	---	0.064
	109+98	37.8 LT	---	---	---	2	---	---	---	61	0.064
	111+99	32.6 LT	---	2	---	---	---	44	---	---	0.064
	112+50	30.7 RT	---	2	---	---	---	58	---	---	0.064
	113+27	33.8 RT	---	2	---	---	---	33	---	---	0.064
	114+82	29.3 LT	---	2	---	---	---	30	---	---	0.064
	117+63	33.8 LT	---	2	---	---	---	32	---	---	0.064
	119+00	32.3 LT	---	2	---	---	---	57	---	---	0.064
	119+89	32.7 LT	---	2	---	---	---	58	---	---	0.064
		TOTAL 0020	**---**	**16**	**---**	**2**	**---**	**380**	**---**	**61**	
0010	136+53	33.6 RT	---	2	---	---	---	70	---	---	0.064
	136+59	30.3 LT	---	2	---	---	---	34	---	---	0.064
	141+95	30.1 LT	---	2	---	---	---	38	---	---	0.064
	152+36	31.3 RT	---	2	---	---	---	65	---	---	0.064
	152+87	30.4 LT	---	2	---	---	---	63	---	---	0.064
	157+94	31.5 RT	---	2	---	---	---	72	---	---	0.064
	404+97	34.6 LT	---	2	---	---	---	69	---	---	0.064
	404+58	36.3 RT	---	2	---	---	---	30	---	---	0.064
	180+03	27.9 RT	---	---	2	---	---	---	71	---	0.064
	182+14	36.1 LT	---	2	---	---	---	80	---	---	0.064
	188+42	30.5 RT	---	---	2	---	---	---	80	---	0.064
	200+94	35.9 RT	---	2	---	---	---	41	---	---	0.064
	206+28	33.5 RT	---	2	---	---	---	59	---	---	0.064
	209+00	45.4 LT	---	2	---	---	---	31	---	---	0.064
	211+32	38.5 LT	---	2	---	---	---	60	---	---	0.064
	215+70	33.2 LT	---	2	---	---	---	53	---	---	0.064
	219+63	34.8 RT	---	2	---	---	---	32	---	---	0.064
	226+34	34.6 RT	---	2	---	---	---	45	---	---	0.064
	226+80	27.0 LT	2	---	---	---	38	---	---	---	0.064
		TOTAL 0010	**2**	**32**	**4**	**---**	**38**	**842**	**151**	**---**	
		PROJECT TOTAL	**2**	**48**	**4**	**2**	**38**	**1,222**	**151**	**61**	

3

CROSS CULVERTS

CATEGORY	INLET			OUTLET			521.0336 APRON ENDWALLS FOR CULVERT PIPE SLOPED CROSS DRAINS STEEL 36-INCH 4 TO 1 EACH	521.0342 APRON ENDWALLS FOR CULVERT PIPE SLOPED CROSS DRAINS STEEL 42-INCH 4 TO 1 EACH	521.0542 APRON ENDWALLS FOR PIPE ARCH SLOPED CROSS DRAINS STEEL 42X29-INCH 4 TO 1 EACH	522.0124 CULVERT PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	522.0136 CULVERT PIPE REINFORCED CONCRETE CLASS III 36-INCH LF	522.0172 CULVERT PIPE REINFORCED CONCRETE CLASS III 72-INCH LF	522.0424 CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH LF	522.0442 CULVERT PIPE REINFORCED CONCRETE CLASS IV 42-INCH LF	522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	522.1072 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 72-INCH EACH
	STATION	OFFSET	ELEV	STATION	OFFSET	ELEV										
0020	109+53.82	27.02 RT	703.50	109+53.82	27.89 LT	703.14	---	2	---	---	---	---	---	56	---	---
	122+30.04	23.98 RT	701.50	122+30.04	26.02 LT	701.20	---	---	2	---	---	---	---	---	---	---
						TOTAL 0020	---	2	2	---	---	---	---	56	---	---
	STATION	OFFSET	ELEV	STATION	OFFSET	ELEV										
0010	129+72.71	30.26 RT	701.10	129+72.71	31.76 LT	700.16	---	2	---	---	---	---	---	62	---	---
	149+20.65	37.54 RT	702.16	149+20.65	35.89 LT	702.02	2	---	---	---	76	---	---	---	---	---
	160+52.11	33.95 RT	698.60	160+52.11	34.05 LT	698.40	---	---	---	68	---	---	---	---	2	---
	173+32.64	30.47 RT	691.90	173+32.64	29.53 LT	691.50	---	---	---	---	---	---	---	---	---	---
	197+89.84	43.75 RT	696.76	197+89.84	44.53 LT	695.25	---	---	---	---	---	102	---	---	---	2
	213+50.04	24.40 RT	693.20	213+50.04	25.60 LT	692.70	---	---	---	---	---	---	---	---	---	---
	221+50.04	37.07 RT	690.55	221+50.04	38.93 LT	690.10	2	---	---	---	76	---	---	---	---	---
	232+57.25	59.34 RT	696.60	233+21.60	59.85 RT	696.30	---	---	---	---	---	---	64	---	2	---
	232+61.27	61.57 LT	696.25	233+26.91	61.13 LT	695.40	---	---	---	---	---	---	66	---	2	---
	233+36.12	42.25 RT	695.80	233+36.12	45.80 LT	695.50	---	---	---	---	---	---	---	---	---	---
						TOTAL 0010	4	2	---	68	152	102	130	62	6	2
						PROJECT TOTAL	4	4	2	68	152	102	130	118	6	2

3

CROSS CULVERTS (cont.)

CATEGORY	INLET			OUTLET			522.2424 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 24x38-INCH LF	522.2429 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 29X45-INCH LF	522.2434 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 34X53-INCH LF	522.2624 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 24X38-INCH EACH	522.2634 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 34X53-INCH EACH	633.5200 MARKERS CULVERT END EACH	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH	SPV.0060.01 APRON ENDWALLS FOR CULVERT PIPE SLOPED CROSS DRAINS STEEL 48X76-INCH 4 TO 1 EACH	SPV.0090.01 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 48X76-INCH LF	MINIMUM METAL ENDWALL THICKNESS IN
	STATION	OFFSET	ELEV	STATION	OFFSET	ELEV										
0020	109+53.82	27.02 RT	703.50	109+53.82	27.89 LT	703.14	---	---	---	---	---	2	1	---	---	0.109
	122+30.04	23.98 RT	701.50	122+30.04	26.02 LT	701.20	---	50	---	---	---	2	1	---	---	0.109
						TOTAL 0020	**---**	**50**	**---**	**---**	**---**	**4**	**2**	**---**	**---**	
	STATION	OFFSET	ELEV	STATION	OFFSET	ELEV										
0010	129+72.71	30.26 RT	701.10	129+72.71	31.76 LT	700.16	---	---	---	---	---	2	1	---	---	0.109
	149+20.65	37.54 RT	702.16	149+20.65	35.89 LT	702.02	---	---	---	---	---	2	1	---	---	0.109
	160+52.11	33.95 RT	698.60	160+52.11	34.05 LT	698.40	---	---	---	---	---	2	1	---	---	N/A
	173+32.64	30.47 RT	691.90	173+32.64	29.53 LT	691.50	60	---	---	2	---	2	1	---	---	N/A
	197+89.84	43.75 RT	696.76	197+89.84	44.53 LT	695.25	---	---	---	---	---	2	1	---	---	N/A
	213+50.04	24.40 RT	693.20	213+50.04	25.60 LT	692.70	---	---	---	---	---	2	1	2	50	0.109
	221+50.04	37.07 RT	690.55	221+50.04	38.93 LT	690.10	---	---	---	---	---	2	1	---	---	0.109
	232+57.25	59.34 RT	696.60	233+21.60	59.85 RT	696.30	---	---	---	---	---	1	1	---	---	N/A
	232+61.27	61.57 LT	696.25	233+26.91	61.13 LT	695.40	---	---	---	---	---	1	1	---	---	N/A
	233+36.12	42.25 RT	695.80	233+36.12	45.80 LT	695.50	---	---	88	---	2	2	1	---	---	N/A
						TOTAL 0010	**60**	**---**	**88**	**2**	**2**	**18**	**10**	**2**	**50**	
						PROJECT TOTAL	**60**	**50**	**88**	**2**	**2**	**22**	**12**	**2**	**50**	

CURB & GUTTER

CATEGORY	STATION	TO	STATION	LOCATION	601.0553 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D LF	601.0557 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D LF
0020	125+40	-	125+85	RT	---	43
				TOTAL 0020	**---**	**43**
0010	125+85	-	126+00	RT	---	33
	126+29	-	126+69	RT	---	47
	138+27	-	140+50	LT	224	---
	140+08	-	142+96	RT	288	---
	173+51	-	173+96	RT	---	83
	173+66	-	174+15	LT	---	71
	174+47	-	175+02	LT	---	88
	191+95	-	192+55	RT	---	91
	192+84	-	193+24	RT	---	87
	205+51	-	205+92	LT	---	61
	206+22	-	206+82	LT	---	91
	232+19	-	232+75	RT	---	71
	232+26	-	232+76	LT	---	75
	233+05	-	233+55	RT	---	62
	233+06	-	233+60	LT	---	84
				TOTAL 0010	**512**	**944**
				PROJECT TOTAL	**512**	**987**

MGS GUARDRAIL

CATEGORY		STATION	TO	STATION	LOCATION	614.2300 MGS GUARDRAIL 3 LF	614.2350 MGS GUARDRAIL SHORT RADIUS LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH
0010	CTH Z	174+32	-	178+43	RT	312.50	67.4	1
		175+82	-	179+13	LT	225.00	---	2
	CTH GG	404+82	-	405+47	RT	12.50	---	1
					PROJECT TOTAL	**550.00**	**67.4**	**4**

EROSION CONTROL

CATEGORY	STATION	TO	STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.2004 EROSION MAT CLASS I TYPE B SY	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	628.2027 EROSION MAT CLASS II TYPE C SY	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH	628.7560 TRACKING PADS EACH	628.7570 ROCK BAGS EACH
0020	105+94	-	125+85	WEST PROJECT LIMIT - KAVANAUGH RD	800	400	---	---	870	4,020	---	180	11	---	30
				UNDISTRIBUTED CAT 0020	200	100	2	1	220	1,010	---	50	3	2	---
				WASTE SITES	150	80	---	---	---	---	---	---	---	---	8
				TOTAL 0020	**1,150**	**580**	**2**	**1**	**1,090**	**5,030**	**---**	**230**	**14**	**2**	**38**
0010	125+85	-	174+23	KAVANAUGH RD - CTH GG	1,910	960	---	---	5,290	6,460	---	810	12	---	90
	174+23	-	192+71	CTH GG - POWERS RD	350	180	---	---	2,890	990	120	510	5	---	---
	192+71	-	206+09	POWERS RD - CLUNE RD	---	---	---	---	900	3,980	---	300	4	---	---
	206+09	-	237+24	CLUNE RD - OUTAGAMIE RD	---	---	---	---	3,580	2,570	---	420	11	---	---
				UNDISTRIBUTED CAT 0010	570	290	8	4	3,170	3,500	30	510	8	6	--- 23
				WASTE SITES	850	430	---	---	---	---	---	---	---	---	--- ---
				TOTAL 0010	**3,680**	**1,860**	**8**	**4**	**15,830**	**17,500**	**150**	**2,550**	**40**	**6**	**113**
				PROJECT TOTAL	**4,830**	**2,440**	**10**	**5**	**16,920**	**22,530**	**150**	**2,780**	**54**	**8**	**151**

RESTORATION

CATEGORY	STATION	TO	STATION	LOCATION	606.0200 RIPRAP MEDIUM CY	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	629.0210 FERTILIZER TYPE B CWT	630.0130 SEEDING MIXTURE NO. 30 LB	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB	630.0300 SEEDING BORROW PIT LB	630.0500 SEED WATER MGAL	645.0120 GEOTEXTILE TYPE HR SY
0020	105+94	-	125+85	WEST PROJECT LIMIT - KAVANAUGH RD	---	8,280	2,430	6.7	300	181	250	---	270	---
				UNDISTRIBUTED CAT 0020	---	2,070	610	1.7	75	46	63	---	68	---
				WASTE SITES	---	---	1,520	4.2	---	---	---	20	25	---
				TOTAL 0020	**---**	**10,350**	**4,560**	**12.6**	**375**	**227**	**313**	**20**	**363**	**---**
0010	125+85	-	174+23	KAVANAUGH RD - CTH GG	13	24,810	14,440	19.1	1,070	291	690	---	760	40
	174+23	-	192+71	CTH GG - POWERS RD	---	9,860	5,980	7.6	500	45	280	---	300	---
	192+71	-	206+09	POWERS RD - CLUNE RD	145	7,430	2,240	5.7	230	180	210	---	230	370
	206+09	-	237+24	CLUNE RD - OUTAGAMIE RD	30	15,720	8,930	12.2	750	116	440	---	490	90
				UNDISTRIBUTED CAT 0010	---	5,782	3,160	11.2	640	158	405	---	445	---
				WASTE SITES	---	---	17,380	27.9	---	---	---	75	100	---
				TOTAL 0010	**188**	**63,602**	**52,130**	**83.7**	**3,190**	**790**	**2,025**	**75**	**2,325**	**500**
				PROJECT TOTAL	**188**	**73,952**	**56,690**	**96.3**	**3,565**	**1,017**	**2,338**	**95**	**2,688**	**500**

3

REMOVING SIGNS

CATEGORY	SIGN #	SHEET #	SIGN CODE	SIGN MOUNTED ON SAME POST AS #	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	DESCRIPTION
0010	1R-01	1 OF 5	W1-7	-	1	1	NIGHT ARROW (DOUBLE)
	1R-02	1 OF 5	R1-1	-	1	1	STOP
	1R-03	1 OF 5	---	1R-02	-	-	LOCAL STREET SIGN
	1R-04	1 OF 5	---	1R-02	1	-	LOCAL STREET SIGN
	1R-05	1 OF 5	---	-	1	1	LOCAL GOLF CLUB SIGN
	3R-01	3 OF 5	J1-1	-	2	1	JUNCTION OR END ASSEMBLY
	3R-02	3 OF 5	J12-1	-	2	1	ROUTE TURN WITHOUT CARDINAL (1 HEADED ROUTE PANEL)
	3R-03	3 OF 5	R1-1	-	1	1	STOP
	3R-04	3 OF 5	R1-1	-	1	1	STOP
	3R-05	3 OF 5	J12-1	-	2	1	ROUTE TURN WITHOUT CARDINAL (1 HEADED ROUTE PANEL)
	3R-06	3 OF 5	J12-1	-	2	1	ROUTE TURN WITHOUT CARDINAL (1 HEADED ROUTE PANEL)
	3R-07	3 OF 5	R1-1	-	1	1	STOP
	3R-08	3 OF 5	R1-1	-	1	1	STOP
	3R-09	3 OF 5	J12-1	-	2	1	ROUTE TURN WITHOUT CARDINAL (1 HEADED ROUTE PANEL)
	4R-01	4 OF 5	J1-1	-	2	1	JUNCTION OR END ASSEMBLY
	4R-02	4 OF 5	W1-7	-	1	1	NIGHT ARROW (DOUBLE)
	4R-03	4 OF 5	R1-1	-	1	1	STOP
	4R-04	4 OF 5	---	4R-03	1	-	LOCAL STREET SIGN
	4R-05	4 OF 5	---	4R-03	1	-	LOCAL STREET SIGN
	4R-06	4 OF 5	W8-2	-	1	1	DIP
	4R-07	4 OF 5	W8-2	-	1	1	DIP
	4R-08	4 OF 5	R1-1	-	1	1	STOP
	4R-09	4 OF 5	W14-2	-	1	1	NO OUTLET
	4R-10	4 OF 5	---	4R-02	1	-	LOCAL STREET SIGN
	4R-11	4 OF 5	---	4R-02	1	-	LOCAL STREET SIGN
	5R-01	5 OF 5	I2-2	-	1	1	COUNTY LINE NAME
	5R-02	5 OF 5	M1-5A	5R-01	1	-	COUNTY MARKER
	5R-03	5 OF 5	R12-53	5R-01	1	-	WEIGHT LIMIT CLASS B
	5R-04	5 OF 5	R1-1	-	1	1	STOP
	5R-05	5 OF 5	R1-1	-	1	1	STOP
	5R-06	5 OF 5	I2-2	-	1	1	COUNTY LINE NAME
	5R-07	5 OF 5	---	5R-04	1	-	LOCAL STREET SIGN
	5R-08	5 OF 5	---	5R-04	1	-	LOCAL STREET SIGN
	5R-09	5 OF 5	---	5R-05	1	-	LOCAL STREET SIGN
PROJECT TOTAL					**39**	**23**	

NOTES:
- NO SIGN REMOVALS ON SHEET 2 OF 5.
- ALL REMOVED SIGNS SHOULD BE RETURNED TO THE COUNTY.

3

PERMANENT SIGNING

CATEGORY	SIGN #	SIGN CODE	SHEET #	SIGN SIZE	SIGN SIZE W IN.	SIGN SIZE X	SIGN SIZE H IN.	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	638.2102 MOVING SIGNS TYPE II EACH	SIGN MOUNTED ON SAME POST AS #	DESCRIPTION
0010	1-01	J1-1	1 OF 5	2S	24	X	39	6.5	-	1	-	-	-	-	JUNCTION OR END ASSEMBLY
	1-02	W1-7	1 OF 5	2S	36	X	15	-	8	-	1	-	-	-	NIGHT ARROW (DOUBLE)
	1-03	R1-1	1 OF 5	2S	24	X	39	5.18	-	-	1	-	-	-	STOP
	1-04	J4-1	1 OF 5	2S	24	X	36	6	-	-	1	-	-	-	REASSURANCE ASSEMBLY (1 HEADED ROUTE PANEL)
	2-01	W14-3	2 OF 5	2S	48	X	36	-	12	-	1	-	-	-	NO PASSING ZONE
	2-02	W14-3	2 OF 5	2S	48	X	39	-	12	-	1	-	-	-	NO PASSING ZONE
	3-01	J1-1	3 OF 5	2S	24	X	39	6.5	-	-	1	-	-	-	JUNCTION OR END ASSEMBLY
	3-02	J12-1	3 OF 5	2S	24	X	45	7.5	-	-	1	-	-	-	ROUTE TURN WITHOUT CARDINAL (1 HEADED ROUTE PANEL)
	3-03	R1-1	3 OF 5	2S	30	X	30	5.18	-	-	1	-	-	-	STOP
	3-04	R1-1	3 OF 5	2S	30	X	30	5.18	-	-	1	-	-	-	STOP
	3-05	J12-1	3 OF 5	2S	24	X	45	7.5	-	-	1	-	-	-	ROUTE TURN WITHOUT CARDINAL (1 HEADED ROUTE PANEL)
	3-06	J12-1	3 OF 5	2S	24	X	45	7.5	-	-	1	-	-	-	ROUTE TURN WITHOUT CARDINAL (1 HEADED ROUTE PANEL)
	3-07	R1-1	3 OF 5	2S	30	X	30	5.18	-	-	1	-	-	-	STOP
	3-08	R1-1	3 OF 5	2S	30	X	30	5.18	-	-	1	-	-	-	STOP
	3-09	J12-1	3 OF 5	2S	24	X	45	7.5	-	-	1	-	-	-	ROUTE TURN WITHOUT CARDINAL (1 HEADED ROUTE PANEL)
	3-10	W14-3	3 OF 5	2S	48	X	36	-	12	-	1	-	-	-	NO PASSING ZONE
	4-01	J1-1	4 OF 5	2S	24	X	39	6.5	-	-	1	-	-	-	JUNCTION OR END ASSEMBLY
	4-02	W1-7	4 OF 5	2S	48	X	24	-	8	-	1	-	-	-	NIGHT ARROW (DOUBLE)
	4-03	R1-1	4 OF 5	2S	30	X	30	5.18	-	-	1	-	-	-	STOP
	4-04	W14-3	4 OF 5	2S	48	X	36	-	12	-	1	-	-	-	NO PASSING ZONE
	4-08	R1-1	4 OF 5	2S	30	X	30	5.18	-	-	1	-	-	-	STOP
	4-09	W14-2	4 OF 5	2S	30	X	30	-	6.25	-	1	-	-	-	NO OUTLET
	4-10	W1-7	4 OF 5	2S	48	X	24	-	8	-	1	-	-	-	NIGHT ARROW (DOUBLE)
	5M-01	---	5 OF 5	2S	36	X	36	-	-	-	1	-	1	-	OUTAGAMIE COUNTY ADOPT A HIGHWAY
	5M-02	W21-1AF	5 OF 5	2S	30	X	30	-	-	-	1	-	1	5M-01	WORKERS SYMBOL MESSAGE FOLDING
	5M-03	D12-50	5 OF 5	2S	36	X	36	-	-	-	-	-	1	5-06	NEIGHBORHOOD WATCH COMMUNITY...
	5-01	I2-2	5 OF 5	2S	78	X	15	8.125	-	-	1	1	-	-	OUTAGAMIE CO
	5-02	M1-5A	5 OF 5	2S	24	X	24	4	-	-	1	-	-	-	COUNTY MARKER
	5-03	R12-53	5 OF 5	2S	24	X	30	5	-	-	-	-	-	5-02	WEIGHT LIMIT CLASS B
	5-04	R1-1	5 OF 5	2S	30	X	30	5.18	-	-	1	-	-	-	STOP
	5-05	R1-1	5 OF 5	2S	30	X	30	5.18	-	-	-	1	-	-	STOP
	5-06	I2-2	5 OF 5	2S	54	X	15	5.625	-	-	-	2	-	-	BROWN CO
PROJECT TOTAL								**124.87**	**78.25**	**1**	**27**	**4**	**3**		

TRAFFIC CONTROL

CATEGORY	** ESTIMATED CALENDAR DAYS	** EACH	643.0300 TRAFFIC CONTROL DRUMS DAY	** EACH	* 643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAY	** EACH	* 643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	** EACH	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAY	** EACH	* 643.0900 TRAFFIC CONTROL SIGNS DAY	** EACH	643.1050 TRAFFIC CONTROL SIGNS PCMS DAY	643.5000 TRAFFIC CONTROL EACH	REMARKS
0020	7	5	35	---	---	---	---	5	35	---	---	1	7	---	PRIOR TO CONSTRUCTION
	198	40	7,920	2	396	4	792	---	---	3	594	---	---	---	DURING CONSTRUCTION
	---	---	800	---	80	---	170	---	20	---	60	---	7	---	UNDISTRIBUTED
	TOTAL 0020		**8,755**		**476**		**962**		**55**		**654**		**14**	**0.15**	
0010	7	5	35	---	---	---	---	5	35	---	---	1	7	---	PRIOR TO CONSTRUCTION
	198	220	43,560	16	3,168	32	6,336	---	---	25	4,950	---	---	---	DURING CONSTRUCTION
	---	---	4,360	---	640	---	1,270	---	20	---	500	---	7	---	UNDISTRIBUTED
	TOTAL 0010		**47,955**		**3,808**		**7,606**		**55**		**5,450**		**14**	**0.85**	
	PROJECT TOTAL		**56,710**		**4,284**		**8,568**		**110**		**6,104**		**28**	**1**	

* ADDITIONAL QUANTITIES ON DETOUR TABLE.
** FOR INFORMATIONAL PURPOSES ONLY.

DETOUR

CATEGORY	** ESTIMATED CALENDAR DAYS	** EACH	* 643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAY	** EACH	* 643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	** EACH	* 643.0900 TRAFFIC CONTROL SIGNS DAY
0010	198	8	1,584	16	3,168	208	41,184
	PROJECT TOTAL		**1,584**		**3,168**		**41,184**

* ADDITIONAL QUANTITIES ON TRAFFIC CONTROL TABLE.
** FOR INFORMATIONAL PURPOSES ONLY.

TRAFFIC CONTROL SIGN COVERING

CATEGORY	* NUMBER OF CYCLES	* NUMBER OF SIGNS	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II EACH
0010	1	8	8
		PROJECT TOTAL	**8**

* FOR INFORMATIONAL PURPOSES ONLY.

3

GEOGRID

CATEGORY	STATION	TO	STATION	LOCATION	645.0220 GEOGRID TYPE SR SY
0020	109+70	-	119+20	LT & RT	3,800
				UNDISTRIBUTED	380
				TOTAL 0020	**4,180**
0010	152+00	-	156+00	LT & RT	1,610
	160+50	-	170+00	LT & RT	3,830
	180+00	-	186+00	LT & RT	2,410
	224+50	-	234+55	LT & RT	4,870
				UNDISTRIBUTED	1,280
				TOTAL 0010	**14,000**
				PROJECT TOTAL	**18,180**

LOCATING NO-PASSING ZONES

CATEGORY	STATION	TO	STATION	648.0100 LOCATING NO-PASSING ZONES MI
0020	105+84	-	125+85	0.38
	90+00	-	105+84	0.30
			TOTAL 0020	**0.68**
0010	125+85	-	234+55	2.06
	234+55	-	250+39	0.30
			TOTAL 0010	**2.36**
			PROJECT TOTAL	**3.04**

3

PAVEMENT MARKINGS

CATEGORY	STATION	TO	STATION	LOCATION	646.2040 MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE) LF	646.2040 MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) LF	646.4040 MARKING LINE GROOVED WET REF EPOXY 10-INCH LF	646.6120 MARKING STOP LINE EPOXY 18-INCH LF	646.9000 MARKING REMOVAL LINE 4-INCH LF
0020	105+94	-	125+85	WEST PROJECT LIMIT - KAVANAUGH RD	4,135	635	520	---	---
				UNDISTRIBUTED*	---	1,585	---	---	---
				TOTAL 0020	**6,355**		**520**	**---**	**---**
0010	125+85	-	174+23	KAVANAUGH RD - CTH GG	9,805	3,835	350	30	---
0010	174+23	-	192+71	CTH GG - POWERS RD	3,785	1,900	200	35	---
0010	192+71	-	206+09	POWERS RD - CLUNE RD	2,570	1,200	---	---	---
0010	206+09	-	237+24	CLUNE RD - OUTAGAMIE RD	5,895	730	600	---	165
				UNDISTRIBUTED*	---	1,585	---	---	---
				TOTAL 0010	**31,305**		**1,150**	**65**	**165**
				PROJECT TOTAL	**37,660**		**1,670**	**65**	**165**

*TO BE USED BEYOND PROJECT LIMITS TO MARK NEW NO PASSING ZONES, IF NECESSARY.

3

SAWING ASPHALT

CATEGORY	STATION	TO	STATION	LOCATION	690.0150 SAWING ASPHALT LF
				CTH Z	
0020	101+50	-	105+93	LT & RT	556
				TOTAL 0020	**556**
				CTH Z	
0010	138+47	-	138+74	LT	27
	140+10	-	140+26	LT	25
	140+33	-	140+44	RT	11
	193+23	-	193+23	RT	12
	218+42	-	218+54	LT	12
	234+55	-	237+24	LT & RT	291
				KAVANAUGH RD	
	303+62	-	303+62	LT & RT	31
		-		CTH GG	
	403+85	-	403+85	LT & RT	55
	408+35	-	408+35	LT & RT	24
				POWERS RD	
	503+50	-	503+50	LT & RT	24
				CLUNE RD	
	601+59	-	601+59	LT & RT	23
				OUTAGAMIE RD	
	701+66	-	701+66	LT & RT	24
	704+81	-	704+81	LT & RT	21
				TOTAL 0010	**580**
				PROJECT TOTAL	**1136**

SETTLEMENT GAUGES

CATEGORY	STATION	OFFSET	SPV.0060.02 SETTLMENT GAUGES EACH
0010	147+50	25'LT	1
	147+50	25'RT	1
	148+25	0' LT	1
	149+00	25'LT	1
	149+00	25'RT	1
	149+75	0' LT	1
	150+50	25'LT	1
	150+50	25'RT	1
		TOTAL 0010	**8**

CONSTRUCTION STAKING SUBGRADE AND BASE

CATEGORY	STATION	TO	STATION	LOCATION	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.5000 CONSTRUCTION STAKING BASE LF	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF
0020	105+94	-	125+85	WEST PROJECT LIMIT - KAVANAUGH RD	1,991	1,991	1,991
				TOTAL 0020	**1,991**	**1,991**	**1,991**
0010	125+85	-	174+23	KAVANAUGH RD - CTH GG	4,838	4,838	4,838
	174+23	-	192+71	CTH GG - POWERS RD	1,848	1,848	1,848
	192+71	-	206+09	POWERS RD - CLUNE RD	1,338	1,338	1,338
	206+09	-	237+24	CLUNE RD - OUTAGAMIE RD	3,115	3,115	3,115
	303+52	-	305+12	KAVANAUGH RD	---	160	160
	503+50	-	505+00	POWERS RD	---	150	150
	600+00	-	601+59	CLUNE RD	---	159	159
	701+66	-	704+81	OUTAGAMIE RD	---	315	315
				TOTAL 0010	**11,139**	**11,923**	**11,923**
				PROJECT TOTAL	**13,130**	**13,914**	**13,914**

CONSTRUCTION STAKING SUPPLEMENTAL CONTROL

CATEGORY	LOCATION	650.9911.01 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL 4679-02-71 EACH
0020	PROJECT WIDE	0.15
	TOTAL 0020	**0.15**
0010	PROJECT WIDE	0.85
	TOTAL 0010	**0.85**
	PROJECT TOTAL	**1**

CONSTRUCTION STAKING CURB & GUTTER

CATEGORY	STATION	TO	STATION	LOCATION	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF
0020	125+40	-	125+85	RT	43
				TOTAL 0020	**43**
0010	125+85	-	126+00	RT	33
	126+29	-	126+69	RT	47
	138+27	-	140+50	LT	224
	140+08	-	142+15	RT	288
	173+51	-	173+96	RT	83
	173+66	-	174+15	LT	71
	174+47	-	175+02	LT	88
	191+95	-	192+55	RT	91
	192+84	-	193+24	RT	87
	205+51	-	205+92	LT	61
	206+22	-	206+82	LT	91
	232+19	-	232+75	RT	71
	232+26	-	232+76	LT	75
	233+05	-	233+55	RT	62
	233+06	-	233+60	LT	84
				TOTAL 0010	**1,456**
				PROJECT TOTAL	**1,499**

CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W OR HE LINE
PROPERTY LINE
LOT, TIE, & OTHER MINOR LINES
SLOPE INTERCEPT
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC)
NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)
TEMPORARY LIMITED EASEMENT AREA
EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING
TO BE REMOVED
BRIDGE
CULVERT

SECTION CORNER SYMBOL
SECTION CORNER MONUMENT
GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
SIGN
OFF-PREMISE SIGN
R/W MONUMENT (TO BE SET)
NON-MONUMENTED R/W POINT
FOUND IRON PIN (1-INCH UNLESS NOTED)

	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)
NO ACCESS (NEW HIGHWAY)
PARCEL NUMBER (25)
UTILITY NUMBER (40)
PARALLEL OFFSETS

CONVENTIONAL ABBREVIATIONS

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

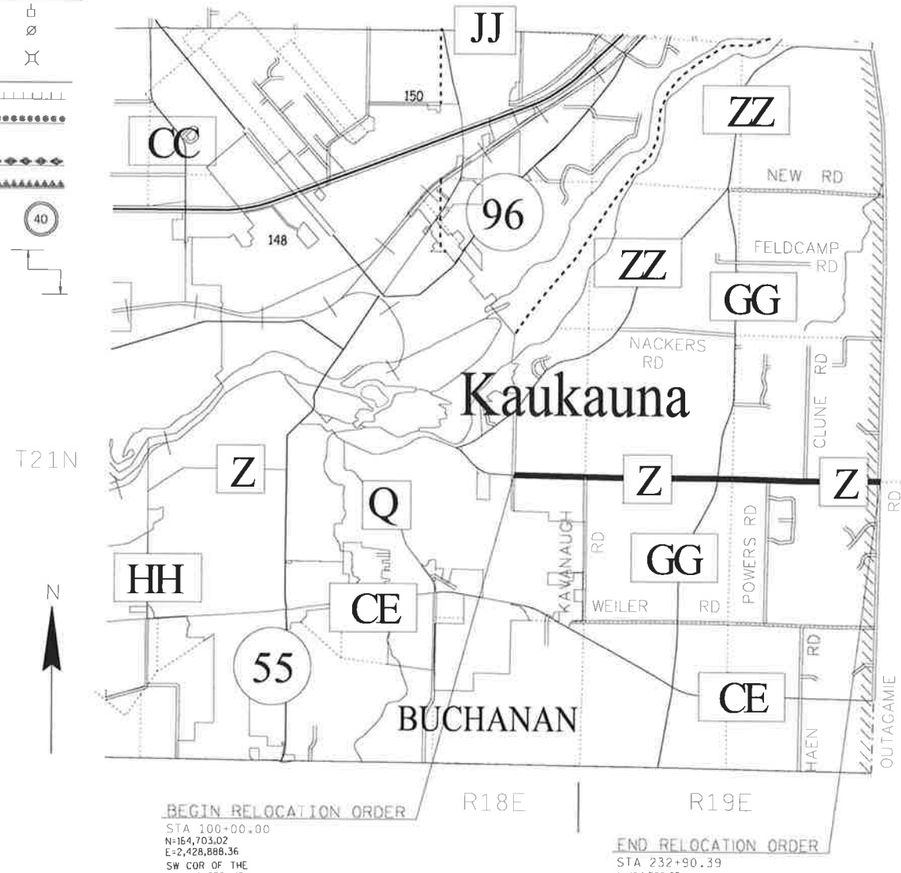
CONVENTIONAL UTILITY SYMBOLS

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

	NON-COMPENSABLE	COMPENSABLE
POWER POLE	□	■
TELEPHONE POLE	⌀	●
TELEPHONE PEDESTAL	✖	✖

CURVE DATA ABBREVIATIONS

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



BEGIN RELOCATION ORDER
STA 100+00.00
N=164,703.02
E=2,428,888.36
SW COR OF THE SE 1/4 SEC. 19, T21N, R19E

END RELOCATION ORDER
STA 232+90.39
N=164,796.25
E=2,442,176.82
0.00' E AND 1.44' S OF THE NE COR OF THE NE 1/4 SEC. 28, T21N, R19E

LAYOUT
SCALE 0 2 MI

TOTAL NET LENGTH OF CENTERLINE = 2.52 MILES

R/W PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
4679-02-00		
FEDERAL PROJECT NUMBER N/A	1	13

PLAT OF RIGHT OF WAY REQUIRED FOR

CTH Z

HAAS ROAD TO EAST COUNTY LINE (OUTAGAMIE RD)

CTH Z	OUTAGAMIE COUNTY

CONSTRUCTION PROJECT NUMBER
4679-02-71

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN STATE PLANE COORDINATE SYSTEM (WSPCS), CENTRAL ZONE, NAD83 (2011) IN US SURVEY FEET.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 3/4" X 24" IRON REBARS), 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, CENTERLINE OF EXISTING PAVEMENTS AND/OR EXISTING OCCUPATIONAL LINES.

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

FOR CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT OUTAGAMIE COUNTY.

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

PROPERTY LINES SHOWN ON THIS PLAT FOR PROPERTIES BEING IMPACTED ARE DRAWN FROM DATA DERIVED FROM FILED/RECORDED MAPS AND DOCUMENTS OF PUBLIC RECORD. 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.

INFORMATION FOR THE BASIS OF EXISTING HIGHWAY RIGHT-OF-WAY POINTS OF REFERENCE AND ACCESS CONTROL ARE LISTED ON DETAIL SHEETS.

THIS PLAT IS A GRAPHIC REPRESENTATION AND IS FOR REFERENCE PURPOSES ONLY. DEEDS MUST BE CHECKED TO DETERMINE PROPERTY BOUNDARIES AND ACCESS RIGHTS.

ORIGINAL PLAT PREPARED BY

raSmith
CREATIVITY BEYOND ENGINEERING

10745 W Bluemound Road Brookfield WI 53226
262.781.1000 | fax 262.781.8466
www.rasmith.com

WISCONSIN MICHAEL J. RATZBURG S-2236 WAUKESHA WI LAND SURVEYOR

DATE: 07/28/2023 Michael J. Ratzburg
LAND SURVEYOR

REVISION DATE	OUTAGAMIE COUNTY
	APPROVED FOR OUTAGAMIE COUNTY DATE: 8/1/23 (Signature)

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO OUTAGAMIE COUNTY.

PARCEL NUMBER	SHEET NUMBER	OWNER	INTEREST(S) REQUIRED	R/W REQUIRED ACRES			T.L.E. ACRES	P.L.E. ACRES
				NEW	EXISTING	TOTAL		
1	4.04	COUNTRY AIRE HARVESTING	FEE, TLE	0.009	-	0.009	0.026	-
2	4.04	NEW HORIZONS DAIRY, LLC.	FEE, TLE	0.025	-	0.025	0.022	-
3	4.05	COUNTRY AIRE HARVESTING	FEE, TLE	0.006	0.063	0.069	0.017	-
4	4.05	HUEBNER FARMS, LLC.	FEE, TLE	0.011	-	0.011	0.048	-
5	4.05	HUEBNER FARMS, LLC.	FEE, TLE	0.111	-	0.111	0.095	-
6	4.06&4.07	HUEBNER FARMS, LLC.	FEE, TLE	0.236	-	0.236	0.237	-
7	4.06	CRAIG & APRIL JEANTY	FEE, TLE	0.027	-	0.027	0.027	-
8	4.06	COUNTRY AIRE HARVESTING	FEE, TLE	0.032	-	0.032	0.136	-
9	4.07	SUNNYSIDE FARM, INC.	FEE, TLE	0.102	-	0.102	0.075	-
10	4.07	DONALD H. & MARLENE E. PAALMAN	TLE	-	0.057	0.057	0.055	-
11	4.07	SUNNYSIDE FARM, INC.	FEE, TLE	0.137	0.193	0.330	0.162	-
12	4.08	SUNNYSIDE FARM, INC.	FEE, TLE	0.087	0.253	0.340	0.200	-
13	4.08	AAK HOLDINGS III, LLC.	FEE, TLE	0.278	-	0.278	0.145	-
14	4.09	SUNNYSIDE FARM, INC.	FEE, TLE	0.102	-	0.102	0.128	-
15	4.09	ROBERT K. & ANNE C. HUEBNER	FEE, TLE	0.212	-	0.212	0.044	-
16	4.09	AAK HOLDINGS III, LLC.	FEE, TLE	0.209	-	0.209	0.082	-
17	4.09	ROBERT L. & AUDRA E. SCHUESSLER	FEE, TLE	0.092	-	0.092	0.013	-
18	4.09	ALEX VAN ZEELAND	FEE, TLE	0.005	-	0.005	0.007	-
19	4.09	ROBERT L. & AUDRA E. SCHUESSLER	FEE, TLE	0.107	-	0.107	0.035	-
20	4.10	LOUISE A. SCHUESSLER	FEE, TLE	0.151	0.253	0.404	0.129	-
21	4.10	LOUISE A. SCHUESSLER	FEE, TLE	0.319	0.020	0.339	0.147	-
22	4.11	KENNETH J. & SHERRIE L. HOELZEL	FEE, TLE	0.405	0.284	0.689	0.259	-
23	4.11	ROBERT JOSEPH DERKS SR.	FEE, TLE	0.068	0.109	0.177	0.061	-
24	4.11	CHRISTOPHER TODD & SANDRA JEAN LECHER	FEE, TLE	0.064	-	0.064	0.031	-
25	4.11	AARON & AMANDA BUCKOSKI	FEE, TLE	0.036	-	0.036	0.056	-
26	4.12	HEART OF THE VALLEY METROPOLITAN SEWAGE DISTRICT	FEE, TLE	0.145	0.174	0.319	0.176	-
27	4.12	RANDOLPH A. MILLER	FEE, TLE	0.025	0.124	0.149	0.140	-
28	4.12	HEART OF THE VALLEY METROPOLITAN SEWAGE DISTRICT	FEE, TLE	0.104	0.254	0.358	0.266	-
29	4.13	TOM J. & JOYCE M. BRANTMEIER	FEE, TLE	0.095	-	0.095	0.191	-
30	4.13	TOM J. & JOYCE M. BRANTMEIER	FEE, TLE	0.199	-	0.199	0.062	-
31	4.13	SUSAN M. BROEREN	FEE, TLE	0.058	-	0.058	0.037	-
32	4.13	DAREN W. & J. LUKES	FEE, TLE	0.017	-	0.017	0.049	-
33	4.13	DAVID & MICHELLE WURST	FEE, TLE	0.278	-	0.278	0.045	-

UTILITY NUMBER	SHEET NUMBER	OWNER	INTEREST REQUIRED
100	4.04, 4.05, 4.06, 4.07, 4.08, 4.09, 4.10, 4.11, 4.12 & 4.13	AT&T WISCONSIN	RELEASE OF RIGHTS
101	4.05	CHARTER COMMUNICATIONS	RELEASE OF RIGHTS
102	4.07 & 4.13	KAUKANA UTILITIES - ELECTRIC	RELEASE OF RIGHTS
103	4.12	ANR PIPELINE	RELEASE OF RIGHTS

BEGIN RELOCATION ORDER
STA 100+00.00
N=164,703.02
E=2,428,888.36

END RELOCATION ORDER
STA 232+90.39
N=164,796.25
E=2,442,176.82

GN

4

4

TOWN OF BUCHANAN

HASS RD

NW 1/4 SE 1/4 SEC 19
NE 1/4 SE 1/4 SEC 19
NW 1/4 SW 1/4 SEC 20
NE 1/4 SW 1/4 SEC 20
NW 1/4 SE 1/4 SEC 20
NE 1/4 SE 1/4 SEC 20
NW 1/4 SW 1/4 SEC 21
NE 1/4 SW 1/4 SEC 21
NW 1/4 SE 1/4 SEC 21
NE 1/4 SE 1/4 SEC 21
NW 1/4 SW 1/4 SEC 22

SW 1/4 SE 1/4 SEC 19
SE 1/4 SE 1/4 SEC 19
SW 1/4 SW 1/4 SEC 20
SE 1/4 SW 1/4 SEC 20
SW 1/4 SE 1/4 SEC 20
SE 1/4 SE 1/4 SEC 20
SW 1/4 SW 1/4 SEC 21
SE 1/4 SW 1/4 SEC 21
SW 1/4 SE 1/4 SEC 21
SE 1/4 SE 1/4 SEC 21
SW 1/4 SW 1/4 SEC 22

CTH GG
CLUNE RD
OUTAGAMIE RD

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33

105 110 115 120 125 130 135 140 145 150 155 160 165 170 175 180 185 190 195 200 205 210 215 220 225 230 235 240

CTH Z

NW 1/4 NE 1/4 SEC 30
NE 1/4 NE 1/4 SEC 30
NW 1/4 NW 1/4 SEC 29
NE 1/4 NW 1/4 SEC 29
NW 1/4 NE 1/4 SEC 29
NE 1/4 NE 1/4 SEC 29
NW 1/4 NW 1/4 SEC 28
NE 1/4 NW 1/4 SEC 28
NW 1/4 NE 1/4 SEC 28
NE 1/4 NE 1/4 SEC 28
NW 1/4 NW 1/4 SEC 27

SW 1/4 NE 1/4 SEC 30
SE 1/4 NE 1/4 SEC 30
SW 1/4 NW 1/4 SEC 29
SE 1/4 NW 1/4 SEC 29
SW 1/4 NE 1/4 SEC 29
SE 1/4 NE 1/4 SEC 29
SW 1/4 NW 1/4 SEC 28
SE 1/4 NW 1/4 SEC 28
SW 1/4 NE 1/4 SEC 28
SE 1/4 NE 1/4 SEC 28
SW 1/4 NW 1/4 SEC 27

KAVANAUGH RD
CTH GG
POWERS RD
OUTAGAMIE RD

OUTAGAMIE COUNTY
BROWN COUNTY

REVISION DATE	DATE 07-28-2023	SCALE, FEET 0 500 1000	HWY: CTH Z	STATE R/W PROJECT NUMBER 4679-02-00	PLAT SHEET 4.03
	GRID FACTOR 0.99996944		COUNTY: OUTAGAMIE	CONSTRUCTION PROJECT NUMBER 4679-02-71	PS&E SHEET 63 E

FILE NAME : TPP100.DWG
LAYOUT NAME - 4.03

PLOT DATE : 7/27/2023 12:33 PM PLOT BY : WEINREIS, CHRIS PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 75

STATION & OFFSET TABLE		
300	106+53.89	41.25' LT
301	109+22.25	41.25' LT
302	109+22.25	48.25' LT
303	109+77.00	48.25' LT
304	109+77.00	41.25' LT
305	113+08.36	41.25' LT
306	109+88.40	41.25' RT
307	109+88.40	53.75' RT
308	109+02.58	53.75' RT
309	109+02.58	41.25' RT
310	106+54.51	41.25' RT

TLE STATION & OFFSET TABLE		
T700	107+00.67	41.25' LT
T701	107+00.67	45.25' LT
T702	107+95.32	45.25' LT
T703	107+95.32	41.25' LT
T704	108+99.87	41.25' LT
T705	108+99.87	53.25' LT
T706	109+77.00	53.25' LT
T707	109+77.00	46.25' LT
T708	110+21.33	46.25' LT
T709	110+21.36	41.25' LT
T710	113+09.72	41.25' RT
T711	113+09.84	46.25' RT
T712	112+12.55	46.25' RT
T713	112+12.55	41.25' RT
T714	109+88.40	59.25' RT
T715	109+02.58	59.25' RT

R/W COURSE TABLE		
300-301	S89°11'04"E	268.37'
301-302	N00°48'56"E	7.00'
302-303	S89°11'04"E	54.75'
303-304	S00°48'56"W	7.00'
304-305	S89°11'04"E	331.36'
304-301	N89°11'04"W	54.75'
T710-306	N89°11'04"W	321.32'
306-307	S00°48'56"W	12.50'
307-308	N89°11'04"W	85.82'
308-309	N00°48'56"E	12.50'
309-310	N89°11'04"W	248.07'
309-306	S89°11'04"E	85.82'

EXISTING MONUMENT STATION & OFFSET TABLE		
100	113+09.61	41.21' RT

TLE COURSE TABLE		
300-T700	S89°11'04"E	46.78'
T700-T701	N00°48'56"E	4.00'
T701-T702	S89°11'04"E	94.65'
T702-T703	S00°48'56"W	4.00'
T703-T700	N89°11'04"W	94.65'
T703-T704	S89°11'04"E	104.55'
301-T704	N89°11'04"W	22.39'
T704-T705	N00°48'56"E	12.00'
T705-T706	S89°11'04"E	77.13'
T706-303	S00°48'56"W	5.00'
304-T707	N00°48'56"E	5.00'
T707-T708	S89°11'04"E	44.33'
T708-T709	S00°29'42"W	5.00'
T709-304	N89°11'04"W	44.36'
T710-T711	S00°35'44"E	5.00'
T711-T712	N89°11'04"W	97.29'
T712-T713	N00°48'56"E	5.00'
T713-T710	S89°11'04"E	97.17'
T713-306	N89°11'04"W	224.15'
307-T714	S00°48'56"W	5.50'
T714-T715	N89°11'04"W	85.82'
T715-308	N00°48'56"E	5.50'

GN

100 AT&T WISCONSIN
16.5' EASEMENT
DOC 1567674
PARCEL 2

LOT 2 CSM 6703
LOT 1 CSM 6703
LOT 1 CSM 8392 DOC.2278601
LOT 2 CSM 8392 DOC.2278601
SW-SE
TOWN OF
CTH Z
HAAS RD
45'
MAG NAIL WITH BRASS WASHER
N=164,703.02
E=2,428,888.36
T 21 N
19 19
30 30
R 19 E
BP: 100+00.00
654.20'
654.84'
105
110
SEC LINE = S89°11'04"E 2617.37'
RL = SEC LN
N00°23'04"E 41.25' SEC LN TO 300
N00°23'04"E 41.25' 310 TO SEC LN
SLOPE INTERCEPT
COUNTRY AIRE HARVESTING
1 TLE, SLOPES & DRIVEWAY
12'
7'
5'
4'
MATCH LINE SEE SHEET 4.05
1/16TH LINE
S00°07'22"E 41.26' 305 TO SEC LN
1308.33'
S00°07'22"E 41.26' SEC LN TO T710
100 3/4" IR
41.25'
16.5' EASEMENT DOC. 1567674
2 TLE, SLOPES
NEW HORIZONS DAIRY, LLC.
UNPLATTED LANDS
NW-NE
BUCHANAN
EP: 126+17.37
MAG NAIL
N=164,665.76
E=2,431,505.47
T 21 N
19 20
30 29
R 19 E
33'

HWY	BASIS OF EXISTING R/W	R/W WIDTH	YEAR
CTH Z	PLAT PROJECT 100-101	66'	1959
CTH Z	CSM 8392	41.25'	2022
CTH Z	DOC.518384, V.520, P.415	41.25'	1959

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN STATE PLANE COORDINATE SYSTEM (WSPCS), CENTRAL ZONE, NAD83 (2011) IN US SURVEY FEET.

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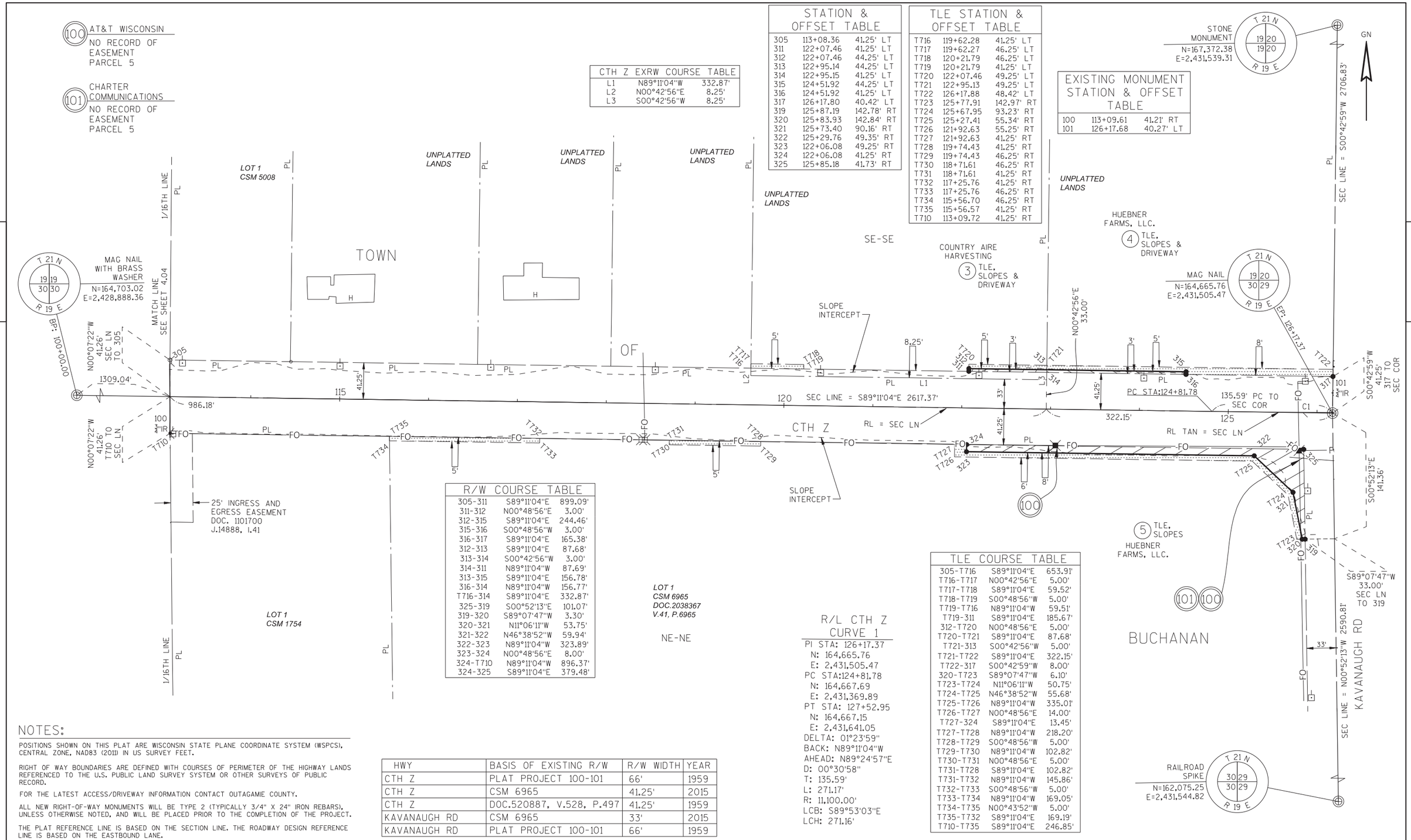
THE PLAT REFERENCE LINE IS BASED ON THE SECTION LINE. THE ROADWAY DESIGN REFERENCE LINE IS BASED ON THE EASTBOUND LANE.

REVISION DATE	DATE 07-28-2023	SCALE, FEET 0 50 100	HWY: CTH Z	STATE R/W PROJECT NUMBER 4679-02-00	PLAT SHEET 4.04	
	GRID FACTOR 0.99996944		COUNTY: OUTAGAMIE	CONSTRUCTION PROJECT NUMBER 4679-02-71	PS&E SHEET 64	E

FILE NAME : TPP100 WEST.DWG
LAYOUT NAME - 4.04
PLOT DATE : 7/27/2023 12:27 PM
PLOT BY : WEINREIS, CHRIS
PLOT NAME :
PLOT SCALE :



4

4

REVISION DATE

DATE 07-28-2023

GRID FACTOR 0.99996944

SCALE, FEET 0 50 100

HWY: CTH Z

COUNTY: OUTAGAMIE

STATE R/W PROJECT NUMBER 4679-02-00

CONSTRUCTION PROJECT NUMBER 4679-02-71

PLAT SHEET 4.05

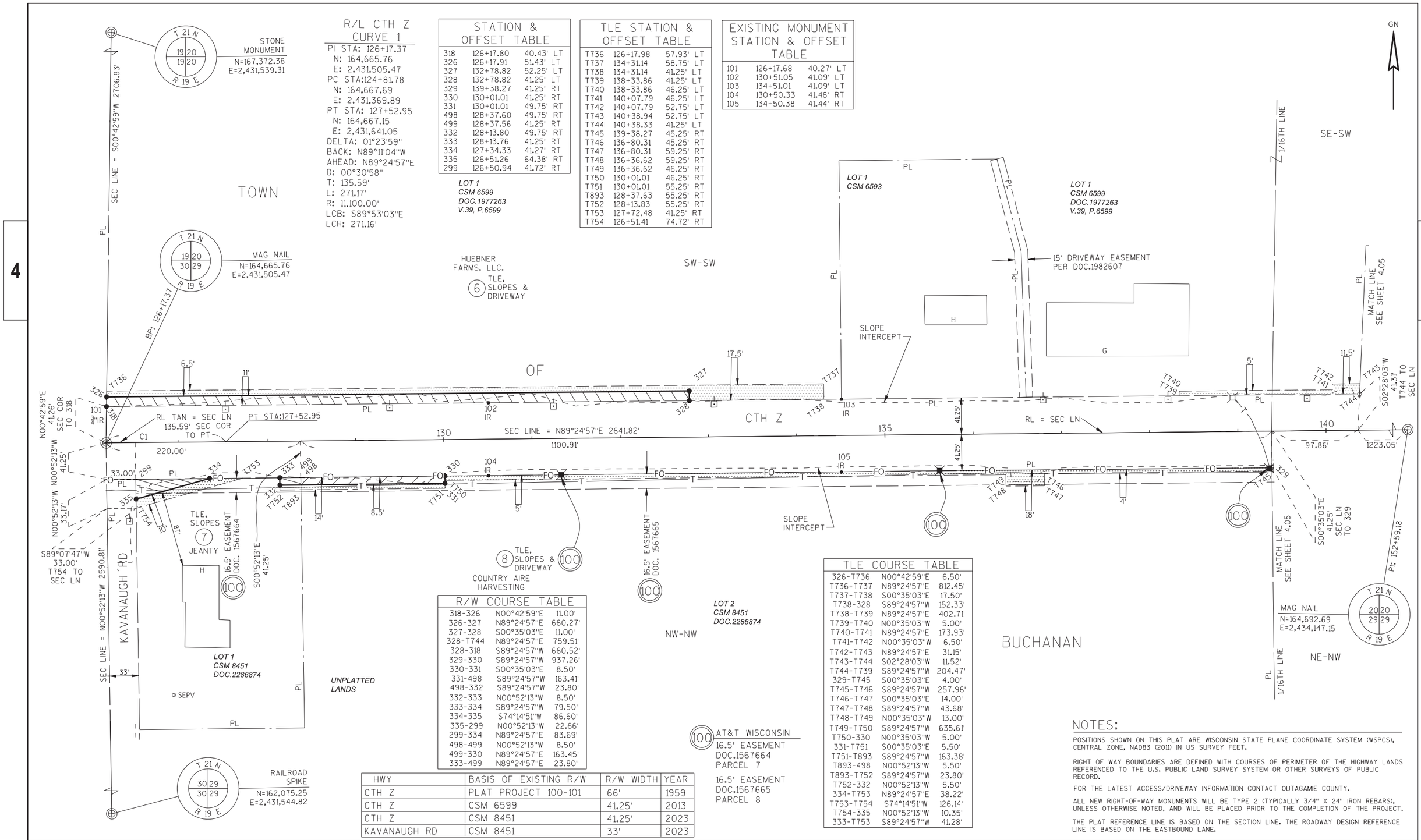
PS&E SHEET 65

E

FILE NAME : TPP100 WEST.DWG
LAYOUT NAME - 4.05

PLOT DATE : 7/27/2023 12:27 PM PLOT BY : WEINREIS, CHRIS PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 75



STATION & OFFSET TABLE		
318	126+17.80	40.43' LT
326	126+17.91	51.43' LT
327	132+78.82	52.25' LT
328	132+78.82	41.25' LT
329	139+38.27	41.25' RT
330	130+01.01	41.25' RT
331	130+01.01	49.75' RT
498	128+37.60	49.75' RT
499	128+37.56	41.25' RT
332	128+13.80	49.75' RT
333	128+13.76	41.25' RT
334	127+34.33	41.27' RT
335	126+51.26	64.38' RT
299	126+50.94	41.72' RT

TLE STATION & OFFSET TABLE		
T736	126+17.98	57.93' LT
T737	134+31.14	58.75' LT
T738	134+31.14	41.25' LT
T739	138+33.86	41.25' LT
T740	138+33.86	46.25' LT
T741	140+07.79	46.25' LT
T742	140+07.79	52.75' LT
T743	140+38.94	52.75' LT
T744	140+38.33	41.25' LT
T745	139+38.27	45.25' RT
T746	136+80.31	45.25' RT
T747	136+80.31	59.25' RT
T748	136+36.62	59.25' RT
T749	136+36.62	46.25' RT
T750	130+01.01	46.25' RT
T751	130+01.01	55.25' RT
T893	128+37.63	55.25' RT
T752	128+13.83	55.25' RT
T753	127+72.48	41.25' RT
T754	126+51.41	74.72' RT

EXISTING MONUMENT STATION & OFFSET TABLE		
101	126+17.68	40.27' LT
102	130+51.05	41.09' LT
103	134+51.01	41.09' LT
104	130+50.33	41.46' RT
105	134+50.38	41.44' RT

R/W COURSE TABLE		
318-326	N00°42'59"E	11.00'
326-327	N89°24'57"E	660.27'
327-328	S00°35'03"E	11.00'
328-T744	N89°24'57"E	759.51'
328-318	S89°24'57"W	660.52'
329-330	S89°24'57"W	937.26'
330-331	S00°35'03"E	8.50'
331-498	S89°24'57"W	163.41'
498-332	S89°24'57"W	23.80'
332-333	N00°52'13"W	8.50'
333-334	S89°24'57"W	79.50'
334-335	S74°14'51"W	86.60'
335-299	N00°52'13"W	22.66'
299-334	N89°24'57"E	83.69'
498-499	N00°52'13"W	8.50'
499-330	N89°24'57"E	163.45'
333-499	N89°24'57"E	23.80'

TLE COURSE TABLE		
326-T736	N00°42'59"E	6.50'
T736-T737	N89°24'57"E	812.45'
T737-T738	S00°35'03"E	17.50'
T738-328	S89°24'57"W	152.33'
T738-T739	N89°24'57"E	402.71'
T739-T740	N00°35'03"W	5.00'
T740-T741	N89°24'57"E	173.93'
T741-T742	N00°35'03"W	6.50'
T742-T743	N89°24'57"E	31.15'
T743-T744	S02°28'03"W	11.52'
T744-T739	S89°24'57"W	204.47'
329-T745	S00°35'03"E	4.00'
T745-T746	S89°24'57"W	257.96'
T746-T747	S00°35'03"E	14.00'
T747-T748	S89°24'57"W	43.68'
T748-T749	N00°35'03"W	13.00'
T749-T750	S89°24'57"W	635.61'
T750-330	N00°35'03"W	5.00'
331-T751	S00°35'03"E	5.50'
T751-T893	S89°24'57"W	163.38'
T893-498	N00°52'13"W	5.50'
T893-T752	S89°24'57"W	23.80'
T752-332	N00°52'13"W	5.50'
334-T753	N89°24'57"E	38.22'
T753-T754	S74°14'51"W	126.14'
T754-335	N00°52'13"W	10.35'
333-T753	S89°24'57"W	41.28'

HWY	BASIS OF EXISTING R/W	R/W WIDTH	YEAR
CTH Z	PLAT PROJECT 100-101	66'	1959
CTH Z	CSM 6599	41.25'	2013
CTH Z	CSM 8451	41.25'	2023
KAVANAUGH RD	CSM 8451	33'	2023

100 AT&T WISCONSIN
16.5' EASEMENT DOC.1567664 PARCEL 7
16.5' EASEMENT DOC.1567665 PARCEL 8

NOTES:

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REVISION DATE			

DATE 07-28-2023	SCALE, FEET 0 50 100	HWY: CTH Z	STATE R/W PROJECT NUMBER 4679-02-00	PLAT SHEET 4.06	
GRID FACTOR 0.99996944		COUNTY: OUTAGAMIE	CONSTRUCTION PROJECT NUMBER 4679-02-71	PS&E SHEET 66	E

FILE NAME : TPP100.DWG
LAYOUT NAME - 4.06

PLOT DATE : 7/27/2023 12:33 PM PLOT BY : WEINREIS, CHRIS PLOT NAME : PLOT SCALE :

STATION & OFFSET TABLE		
329	139+38.27	41.25' RT
336	143+51.11	41.25' LT
337	153+51.11	53.25' LT
338	146+00.03	53.25' LT
339	145+99.69	41.25' LT
340	149+68.55	53.25' LT
341	149+68.55	41.25' LT
298	152+60.75	40.91' LT
367	152+58.75	41.58' RT
342	150+00.00	41.25' RT
343	150+00.00	52.25' RT
344	144+56.03	52.25' RT
345	144+56.03	41.25' RT
346	142+38.27	41.25' RT

TLE STATION & OFFSET TABLE		
T744	140+38.33	41.25' LT
T745	139+38.27	45.25' RT
T755	142+98.33	41.25' LT
T756	142+99.24	58.25' LT
T757	146+00.17	58.25' LT
T758	149+09.98	58.25' LT
T759	149+09.98	76.25' LT
T760	149+78.55	76.25' LT
T761	149+78.55	41.25' LT
T762	152+58.66	50.57' RT
T763	151+65.45	50.25' RT
T764	151+65.45	41.25' RT
T765	150+53.87	41.25' RT
T766	150+53.87	56.25' RT
T767	142+38.27	56.25' RT
T768	142+38.27	46.25' RT
T769	140+53.50	46.25' RT
T770	140+53.50	72.25' RT
T771	140+15.54	72.25' RT
T772	140+15.54	45.25' RT

EXISTING MONUMENT STATION & OFFSET TABLE		
106	146+51.00	41.12' LT
107	149+51.08	41.09' LT
108	142+00.38	41.21' RT
109	146+50.09	41.40' RT

R/L CTH Z
CURVE 2
PI STA: 152+59.18
N: 164,692.69
E: 2,434,147.15
PC STA:151+73.93
N: 164,691.82
E: 2,434,061.91
PT STA: 153+44.42
N: 164,694.87
E: 2,434,232.37
DELTA: 00°52'48"
BACK: S89°24'57"W
AHEAD: N88°32'09"E
D: 00°30'58"
T: 85.25'
L: 170.50'
R: 11,100.00'
LCB: N88°58'33"E
LCH: 170.50'

GN

100 AT&T WISCONSIN
16.5' EASEMENT
DOC.1567666
PARCEL 10
16.5' EASEMENT
DOC.1567667
PARCEL 11

102 KAUKANA UTILITIES - ELECTRIC
NO RECORD
OF EASEMENT
PARCEL 10

STONE MONUMENT
N=167,384.78
E=2,434,201.47

T 21 N
19 20
30 29
R 19 E

MAG NAIL
N=164,665.76
E=2,431,505.47

BP: 126+17.37

LOT 1
CSM 1229

TOWN

PL

MATCH LINE
SEE SHEET 4.04

N02°28'03"E
41.31'
SEC LN
TO T744

LOT 1
CSM 6599
DOC.1977263
V.39, P.6599

LOT 2
CSM 6599
DOC.1977263
V.39, P.6599

SE-SW

HUEBNER FARMS, LLC.
6 TLE, SLOPES

SUNNYSIDE FARM, INC.
9 TLE, SLOPES

SLOPE INTERCEPT

SEC LINE = S01°09'21"W 2692.63'

S01°09'21"W
41.27'
298 TO
SEC COR

PC STA:151+73.93

85.25' PC TO SEC COR

C2

RL = SEC LN

RL TAN = SEC LN

SEC LINE = N89°24'57"E 2641.82'

1320.91'

97.86'

1223.05'

CTH Z

T744 T745 T755 T756 T757 T758 T759 T760 T761 T762 T763 T764 T765 T766 T767 T768 T769 T770 T771 T772

329 336 337 338 339 340 341 298 367 346 345 344 343 342

106 IR
107 ¾ IR
108 IR
109 IR

17' 12' 5' 35' 4' 8.25' 15' 11' 9'

41.25'

33'

L4 L5 L6

NO0°35'03"W
33.00'
EXRW TO
SEC LN

NO0°35'03"W NO0°35'03"W
8.25'
329 TO
EXRW

S00°26'10"E
33.00'
SEC COR
TO EXRW

S00°26'10"E
8.25'
EXRW
TO 367

MATCH LINE
SEE SHEET 4.04

PL 1/16TH LINE

16.5' EASEMENT
DOC. 1567666

16.5' EASEMENT
DOC. 1567667

10 TLE, SLOPES & DRIVEWAY
PAALMAN

11 TLE, SLOPES & DRIVEWAY
SUNNYSIDE FARM, INC.

UNPLATTED LANDS

UNPLATTED LANDS

NE-NW

PI: 152+59.18

T 21 N
20 20
29 29
R 19 E

MAG NAIL
N=164,692.69
E=2,434,147.15

BUCHANAN

SEC LINE = N00°26'10"W 2578.79'

MATCH LINE
SEE SHEET 4.06

T 21 N
29 29
29 29
R 19 E

COMPUTED
N=162,113.97
E=2,434,166.78

R/W COURSE TABLE		
T744-336	N89°24'57"E	312.78'
336-337	N00°35'03"W	12.00'
337-340	N89°24'57"E	617.44'
340-341	S00°35'03"E	12.00'
341-298	N89°24'57"E	291.88'
337-338	N89°24'57"E	248.92'
338-339	S01°02'47"W	12.00'
339-336	S89°24'57"W	248.58'
338-340	N89°24'57"E	368.52'
341-339	S89°24'57"W	368.86'
367-342	S89°24'57"W	259.07'
342-343	S00°35'03"E	11.00'
343-344	S89°24'57"W	543.97'
344-345	N00°35'03"W	11.00'
345-329	S89°24'57"W	517.76'
345-342	N89°24'57"E	543.97'

CTH Z EXRW COURSE TABLE		
L4	N00°35'03"W	8.25'
L5	N89°24'57"E	1020.82'
L6	N89°24'57"E	300.00'

TLE COURSE TABLE		
T744-T755	N89°24'57"E	260.00'
T755-T756	N02°28'03"E	17.02'
T756-T757	N89°24'57"E	300.93'
T757-338	S01°02'47"W	5.00'
336-T755	S89°24'57"W	52.78'
T757-T758	N89°24'57"E	309.81'
T758-T759	N00°35'03"W	18.00'
T759-T760	N89°24'57"E	68.57'
T760-T761	S00°35'03"E	35.00'
T761-341	S89°24'57"W	10.00'
367-T762	S00°26'10"E	9.00'
T762-T763	S89°24'57"W	93.59'
T763-T764	N00°35'03"W	9.00'
T764-367	N89°24'57"E	93.62'
T764-T765	S89°24'57"W	111.58'
T765-T766	S00°35'03"E	15.00'
T766-T767	S89°24'57"W	815.60'
T767-346	N00°35'03"W	15.00'
346-345	N89°24'57"E	217.76'
342-T765	N89°24'57"E	53.87'
T767-T768	N00°35'03"W	10.00'
T768-T769	S89°24'57"W	184.77'
T769-T770	S00°35'03"E	26.00'
T770-T771	S89°24'57"W	37.96'
T771-T772	N00°35'03"W	27.00'
T772-T745	S89°24'57"W	77.28'
T745-329	N00°35'03"W	4.00'
329-346	N89°24'57"E	300.00'
346-T768	S00°35'03"E	5.00'

NOTES:

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HWY	BASIS OF EXISTING R/W	R/W WIDTH	YEAR
CTH Z	PLAT PROJECT 100-101	66'	1959
CTH Z	CSM 6599	41.25'	2013

REVISION DATE

DATE 07-28-2023

GRID FACTOR 0.99996944

SCALE, FEET 0 50 100

HWY: CTH Z

COUNTY: OUTAGAMIE

STATE R/W PROJECT NUMBER 4679-02-00

CONSTRUCTION PROJECT NUMBER 4679-02-71

PLAT SHEET 4.07

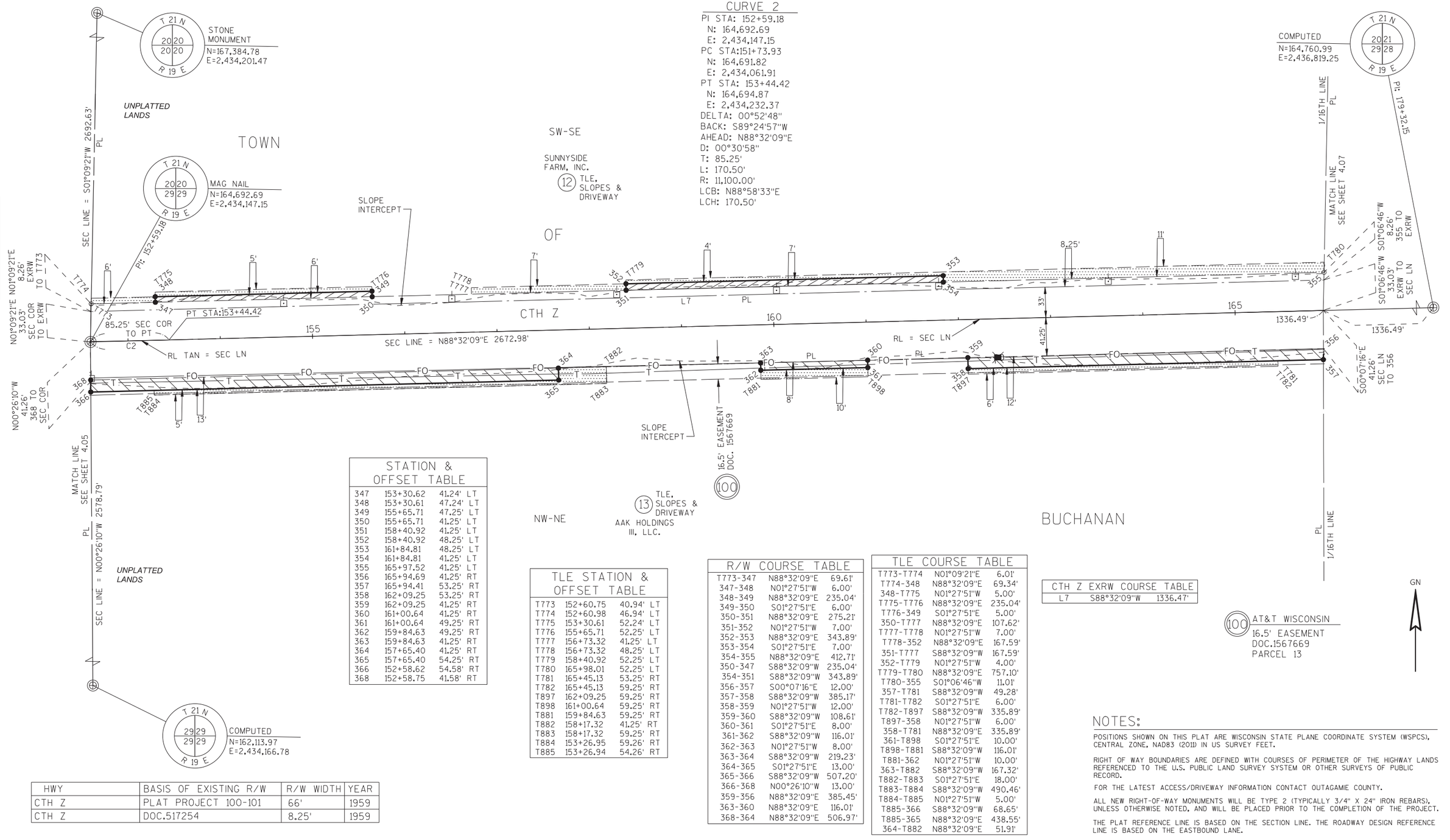
PS&E SHEET 67

E

FILE NAME : TPP100.DWG
LAYOUT NAME - 4.07

PLOT DATE : 7/27/2023 12:32 PM PLOT BY : WEINREIS, CHRIS PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 75



STATION & OFFSET TABLE		
347	153+30.62	41.24' LT
348	153+30.61	47.24' LT
349	155+65.71	47.25' LT
350	155+65.71	41.25' LT
351	158+40.92	41.25' LT
352	158+40.92	48.25' LT
353	161+84.81	48.25' LT
354	161+84.81	41.25' LT
355	165+97.52	41.25' LT
356	165+94.69	41.25' RT
357	165+94.41	53.25' RT
358	162+09.25	53.25' RT
359	162+09.25	41.25' RT
360	161+00.64	41.25' RT
361	161+00.64	49.25' RT
362	159+84.63	49.25' RT
363	159+84.63	41.25' RT
364	157+65.40	41.25' RT
365	157+65.40	54.25' RT
366	152+58.62	54.58' RT
368	152+58.75	41.58' RT

TLE STATION & OFFSET TABLE		
T773	152+60.75	40.94' LT
T774	152+60.98	46.94' LT
T775	153+30.61	52.24' LT
T776	155+65.71	52.25' LT
T777	156+73.32	41.25' LT
T778	156+73.32	48.25' LT
T779	158+40.92	52.25' LT
T780	165+98.01	52.25' LT
T781	165+45.13	53.25' RT
T782	165+45.13	59.25' RT
T897	162+09.25	59.25' RT
T898	161+00.64	59.25' RT
T881	159+84.63	59.25' RT
T882	158+17.32	41.25' RT
T883	158+17.32	59.25' RT
T884	153+26.95	59.26' RT
T885	153+26.94	54.26' RT

R/W COURSE TABLE		
T773-347	N88°32'09"E	69.61'
347-348	N01°27'51"W	6.00'
348-349	N88°32'09"E	235.04'
349-350	S01°27'51"E	6.00'
350-351	N88°32'09"E	275.21'
351-352	N01°27'51"W	7.00'
352-353	N88°32'09"E	343.89'
353-354	S01°27'51"E	7.00'
354-355	N88°32'09"E	412.71'
350-347	S88°32'09"W	235.04'
354-351	S88°32'09"W	343.89'
356-357	S00°07'16"E	12.00'
357-358	S88°32'09"W	385.17'
358-359	N01°27'51"W	12.00'
359-360	S88°32'09"W	108.61'
360-361	S01°27'51"E	8.00'
361-362	S88°32'09"W	116.01'
362-363	N01°27'51"W	8.00'
363-364	S88°32'09"W	219.23'
364-365	S01°27'51"E	13.00'
365-366	S88°32'09"W	507.20'
366-368	N00°26'10"W	13.00'
359-356	N88°32'09"E	385.45'
363-360	N88°32'09"E	116.01'
368-364	N88°32'09"E	506.97'

TLE COURSE TABLE		
T773-T774	N01°09'21"E	6.01'
T774-348	N88°32'09"E	69.34'
348-T775	N01°27'51"W	5.00'
T775-T776	N88°32'09"E	235.04'
T776-349	S01°27'51"E	5.00'
350-T777	N88°32'09"E	107.62'
T777-T778	N01°27'51"W	7.00'
T778-352	N88°32'09"E	167.59'
351-T777	S88°32'09"W	167.59'
352-T779	N01°27'51"W	4.00'
T779-T780	N88°32'09"E	757.10'
T780-355	S01°06'46"W	11.01'
357-T781	S88°32'09"W	49.28'
T781-T782	S01°27'51"E	6.00'
T782-T897	S88°32'09"W	335.89'
T897-358	N01°27'51"W	6.00'
358-T781	N88°32'09"E	335.89'
361-T898	S01°27'51"E	10.00'
T898-T881	S88°32'09"W	116.01'
T881-362	N01°27'51"W	10.00'
363-T882	S88°32'09"W	167.32'
T882-T883	S01°27'51"E	18.00'
T883-T884	S88°32'09"W	490.46'
T884-T885	N01°27'51"W	5.00'
T885-366	S88°32'09"W	68.65'
T885-365	N88°32'09"E	438.55'
364-T882	N88°32'09"E	51.91'

CTH Z EXRW COURSE TABLE		
L7	S88°32'09"W	1336.47'

HWY	BASIS OF EXISTING R/W	R/W WIDTH	YEAR
CTH Z	PLAT PROJECT 100-101	66'	1959
CTH Z	DOC.517254	8.25'	1959

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN STATE PLANE COORDINATE SYSTEM (WSPCS), CENTRAL ZONE, NAD83 (2011) IN US SURVEY FEET.

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

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THE PLAT REFERENCE LINE IS BASED ON THE SECTION LINE. THE ROADWAY DESIGN REFERENCE LINE IS BASED ON THE EASTBOUND LANE.

REVISION DATE	DATE 07-28-2023	SCALE, FEET 0 50 100	HWY: CTH Z	STATE R/W PROJECT NUMBER 4679-02-00	PLAT SHEET 4.08	
	GRID FACTOR 0.99996944		COUNTY: OUTAGAMIE	CONSTRUCTION PROJECT NUMBER 4679-02-71	PS&E SHEET 68	E

HWY	BASIS OF EXISTING R/W	R/W WIDTH	YEAR
CTH Z	PLAT PROJECT 100-101	66'	1959
CTH Z	CSM 6592	41.25'	2013
CTH Z	CSM 3155	82.5'	1998
CTH Z	DOC. 517254	8.25'	1959
CTH GG	CSM 3155	82.5'	1998
CTH GG	CSM 6592	82.5'	2013
CTH GG	PLAT PROJECT 100-101	66'	1959

STATION & OFFSET TABLE		
355	165+97.52	41.25' LT
356	165+94.69	41.25' RT
369	172+89.64	42.43' LT
370	173+93.15	136.31' LT
371	173+84.58	43.13' LT
372	174+67.43	43.88' LT
373	174+76.07	139.39' LT
374	175+50.71	57.26' LT
375	179+33.44	62.92' LT
377	179+33.11	50.41' LT
378	179+31.60	32.13' RT
379	179+31.35	55.64' RT
380	177+89.96	58.03' RT
381	177+89.72	42.53' RT
382	176+23.09	44.88' RT
383	176+23.26	36.88' RT
384	175+74.46	45.47' RT
385	175+74.37	37.47' RT
386	175+40.19	37.86' RT
387	174+57.19	109.89' RT
296	174+47.93	170.20' RT
297	174+40.29	170.27' RT
388	174+42.83	199.53' RT
389	174+35.35	198.63' RT
390	174+58.49	38.71' RT
391	173+75.33	39.44' RT
392	173+61.84	137.51' RT
393	172+89.60	54.07' RT
394	172+44.25	46.35' RT
395	165+94.55	47.25' RT

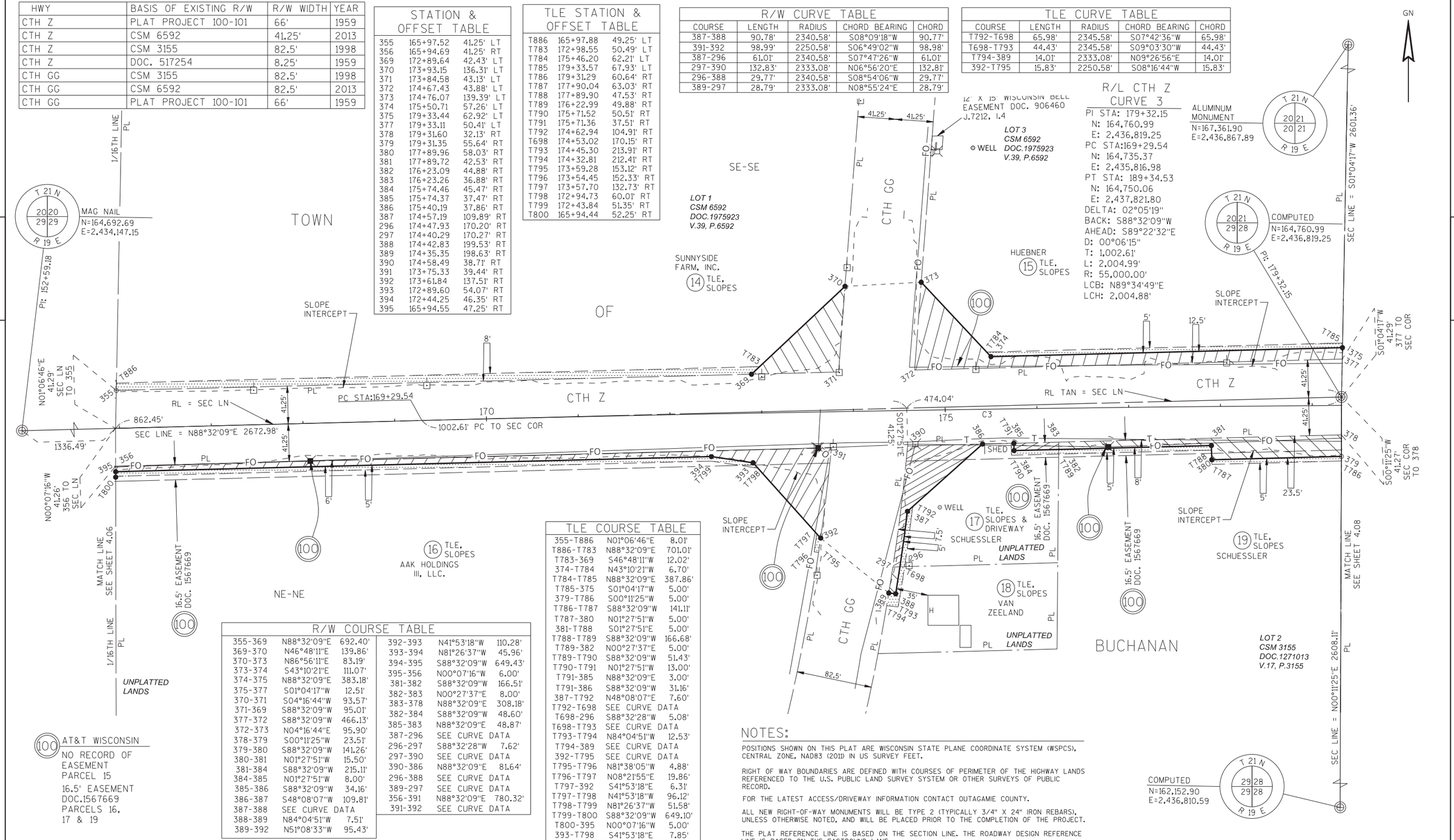
TLE STATION & OFFSET TABLE		
T886	165+97.88	49.25' LT
T783	172+98.55	50.49' LT
T784	175+46.20	62.21' LT
T785	179+33.57	67.93' LT
T786	179+31.29	60.64' RT
T787	177+90.04	63.03' RT
T788	177+89.90	47.53' RT
T789	176+22.99	49.88' RT
T790	175+71.52	50.51' RT
T791	175+71.36	37.51' RT
T792	174+62.94	104.91' RT
T698	174+53.02	170.15' RT
T793	174+45.30	213.91' RT
T794	174+32.81	212.41' RT
T795	173+59.28	153.12' RT
T796	173+54.45	152.33' RT
T797	173+57.70	132.73' RT
T798	172+94.73	60.01' RT
T799	172+43.84	51.35' RT
T800	165+94.44	52.25' RT

R/W CURVE TABLE				
COURSE	LENGTH	RADIUS	CHORD BEARING	CHORD
387-388	90.78'	2340.58'	S08°09'18"W	90.77'
391-392	98.99'	2250.58'	S06°49'02"W	98.98'
387-296	61.01'	2340.58'	S07°47'26"W	61.01'
297-390	132.83'	2333.08'	N06°56'20"E	132.81'
296-388	29.77'	2340.58'	S08°54'06"W	29.77'
389-297	28.79'	2333.08'	N08°55'24"E	28.79'

TLE CURVE TABLE				
COURSE	LENGTH	RADIUS	CHORD BEARING	CHORD
T792-T698	65.98'	2345.58'	S07°42'36"W	65.98'
T698-T793	44.43'	2345.58'	S09°03'30"W	44.43'
T794-389	14.01'	2333.08'	N09°26'56"E	14.01'
392-T795	15.83'	2250.58'	S08°16'44"W	15.83'

R/W COURSE TABLE					
355-369	N88°32'09"E	692.40'	392-393	N41°53'18"W	110.28'
369-370	N46°48'11"E	139.86'	393-394	N81°26'37"W	45.96'
370-373	N86°56'11"E	83.19'	394-395	S88°32'09"W	649.43'
373-374	S43°10'21"E	111.07'	395-356	N00°07'16"W	6.00'
374-375	N88°32'09"E	383.18'	381-382	S88°32'09"W	166.51'
375-377	S01°04'17"W	12.51'	382-383	N00°27'37"E	8.00'
370-371	S04°16'44"W	93.57'	383-378	N88°32'09"E	308.18'
371-369	S88°32'09"W	95.01'	382-384	S88°32'09"W	48.60'
377-372	S88°32'09"W	466.13'	385-383	N88°32'09"E	48.87'
372-373	N04°16'44"E	95.90'	387-296	SEE CURVE DATA	
378-379	S00°11'25"W	23.51'	296-297	S88°32'28"W	7.62'
379-380	S88°32'09"W	141.26'	297-390	SEE CURVE DATA	
380-381	N01°27'51"W	15.50'	390-386	N88°32'09"E	81.64'
381-384	S88°32'09"W	215.11'	296-388	SEE CURVE DATA	
384-385	N01°27'51"W	8.00'	389-297	SEE CURVE DATA	
385-386	S88°32'09"W	34.16'	356-391	N88°32'09"E	780.32'
386-387	S48°08'07"W	109.81'	391-392	SEE CURVE DATA	
387-388	SEE CURVE DATA				
388-389	N84°04'51"W	7.51'			
389-392	N51°08'33"W	95.43'			

TLE COURSE TABLE		
355-T886	N01°06'46"E	8.01'
T886-T783	N88°32'09"E	701.01'
T783-369	S46°48'11"W	12.02'
374-T784	N43°10'21"W	6.70'
T784-T785	N88°32'09"E	387.86'
T785-375	S01°04'17"W	5.00'
379-T786	S00°11'25"W	5.00'
T786-T787	S88°32'09"W	141.11'
T787-380	N01°27'51"W	5.00'
381-T788	S01°27'51"E	5.00'
T788-T789	S88°32'09"W	166.68'
T789-382	N00°27'37"E	5.00'
T789-T790	S88°32'09"W	51.43'
T790-T791	N01°27'51"W	13.00'
T791-385	N88°32'09"E	3.00'
T791-386	S88°32'09"W	31.16'
387-T792	N48°08'07"E	7.60'
T792-T698	SEE CURVE DATA	
T698-296	S88°32'28"W	5.08'
T698-T793	SEE CURVE DATA	
T793-T794	N84°04'51"W	12.53'
T794-389	SEE CURVE DATA	
392-T795	SEE CURVE DATA	
T795-T796	N81°38'05"W	4.88'
T796-T797	N08°21'55"E	19.86'
T797-392	S41°53'18"E	6.31'
T797-T798	N41°53'18"W	96.12'
T798-T799	N81°26'37"W	51.58'
T799-T800	S88°32'09"W	649.10'
T800-395	N00°07'16"W	5.00'
393-T798	S41°53'18"E	7.85'



NOTES:

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REVISION DATE

DATE 07-28-2023

GRID FACTOR 0.99996944

SCALE, FEET 0 50 100

HWY: CTH Z

COUNTY: OUTAGAMIE

STATE R/W PROJECT NUMBER 4679-02-00

CONSTRUCTION PROJECT NUMBER 4679-02-71

PLAT SHEET 4.09

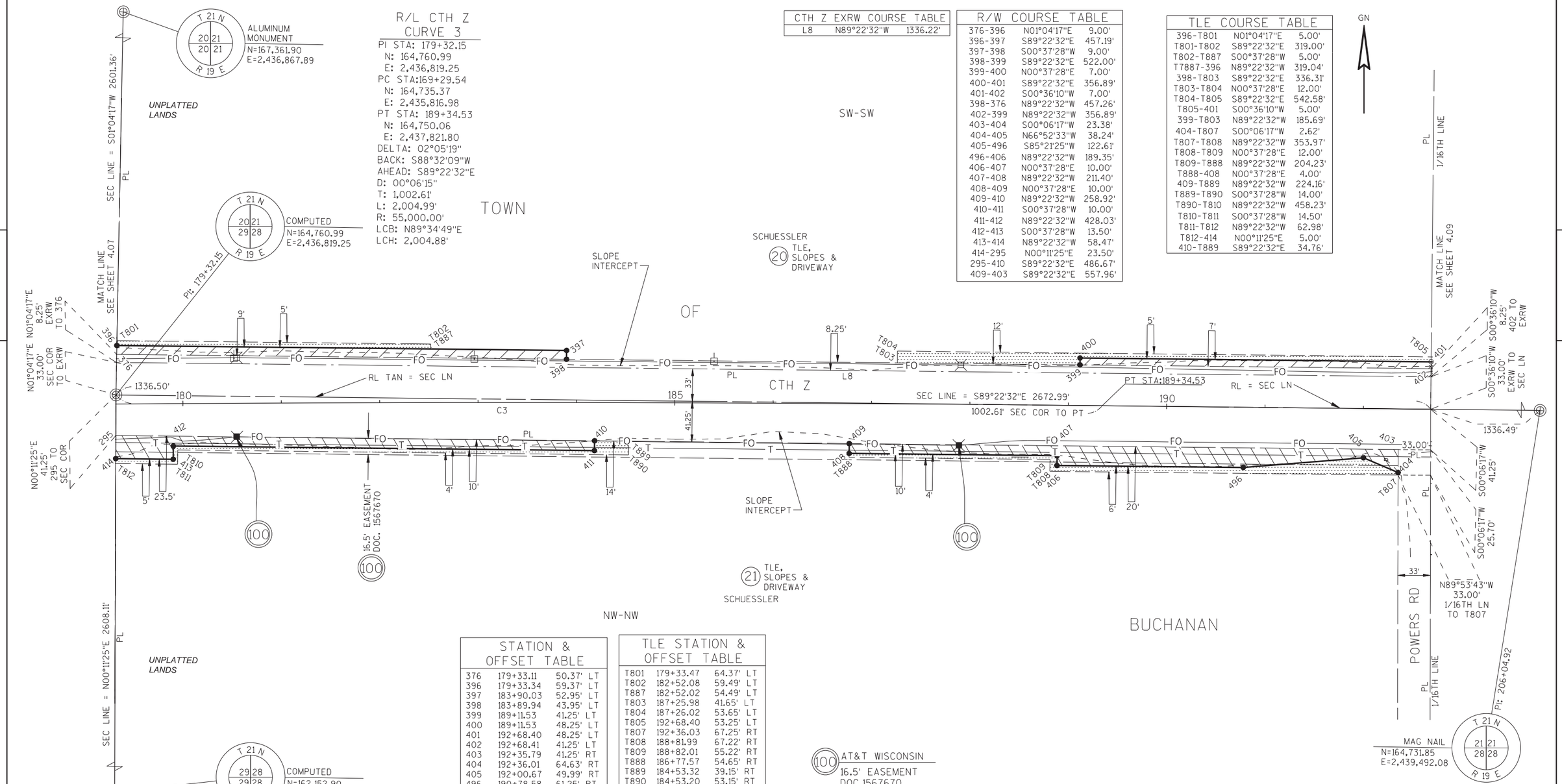
PS&E SHEET 69

E

FILE NAME : TPP100.DWG
LAYOUT NAME - 4.09

PLOT DATE : 7/27/2023 12:31 PM PLOT BY : WEINREIS, CHRIS PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 75



CTH Z EXRW COURSE TABLE		
L8	N89°22'32"W	1336.22'

R/W COURSE TABLE		
376-396	N01°04'17"E	9.00'
396-397	S89°22'32"E	457.19'
397-398	S00°37'28"W	9.00'
398-399	S89°22'32"E	522.00'
399-400	N00°37'28"E	7.00'
400-401	S89°22'32"E	356.89'
401-402	S00°36'10"W	7.00'
398-376	N89°22'32"W	457.26'
402-399	N89°22'32"W	356.89'
403-404	S00°06'17"W	23.38'
404-405	N66°52'33"W	38.24'
405-496	S85°21'25"W	122.61'
496-406	N89°22'32"W	189.35'
406-407	N00°37'28"E	10.00'
407-408	N89°22'32"W	211.40'
408-409	N00°37'28"E	10.00'
409-410	N89°22'32"W	258.92'
410-411	S00°37'28"W	10.00'
411-412	N89°22'32"W	428.03'
412-413	S00°37'28"W	13.50'
413-414	N89°22'32"W	58.47'
414-295	N00°11'25"E	23.50'
295-410	S89°22'32"E	486.67'
409-403	S89°22'32"E	557.96'

TLE COURSE TABLE		
396-T801	N01°04'17"E	5.00'
T801-T802	S89°22'32"E	319.00'
T802-T887	S00°37'28"W	5.00'
T7887-396	N89°22'32"W	319.04'
398-T803	S89°22'32"E	336.31'
T803-T804	N00°37'28"E	12.00'
T804-T805	S89°22'32"E	542.58'
T805-401	S00°36'10"W	5.00'
399-T803	N89°22'32"W	185.69'
404-T807	S00°06'17"W	2.62'
T807-T808	N89°22'32"W	353.97'
T808-T809	N00°37'28"E	12.00'
T809-T888	N89°22'32"W	204.23'
T888-408	N00°37'28"E	4.00'
409-T889	N89°22'32"W	224.16'
T889-T890	S00°37'28"W	14.00'
T890-T810	N89°22'32"W	458.23'
T810-T811	S00°37'28"W	14.50'
T811-T812	N89°22'32"W	62.98'
T812-414	N00°11'25"E	5.00'
410-T889	S89°22'32"E	34.76'

STATION & OFFSET TABLE		
376	179+33.11	50.37' LT
396	179+33.34	59.37' LT
397	183+90.03	52.95' LT
398	183+89.94	43.95' LT
399	189+11.53	41.25' LT
400	189+11.53	48.25' LT
401	192+68.40	48.25' LT
402	192+68.41	41.25' LT
403	192+35.79	41.25' RT
404	192+36.01	64.63' RT
405	192+00.67	49.99' RT
496	190+78.58	61.25' RT
406	188+89.18	61.23' RT
407	188+89.19	51.23' RT
408	186+77.59	50.65' RT
409	186+77.64	40.65' RT
410	184+18.54	38.83' RT
411	184+18.45	48.83' RT
412	179+90.10	43.15' RT
413	179+89.86	56.65' RT
414	179+31.35	55.61' RT
295	179+31.60	32.11' RT

TLE STATION & OFFSET TABLE		
T801	179+33.47	64.37' LT
T802	182+52.08	59.49' LT
T887	182+52.02	54.49' LT
T803	187+25.98	41.65' LT
T804	187+26.02	53.65' LT
T805	192+68.40	53.25' LT
T807	192+36.03	67.25' RT
T808	188+81.99	67.22' RT
T809	188+82.01	55.22' RT
T888	186+77.57	54.65' RT
T889	184+53.32	39.15' RT
T890	184+53.20	53.15' RT
T810	179+94.58	47.23' RT
T811	179+94.33	61.72' RT
T812	179+31.29	60.61' RT

HWY	BASIS OF EXISTING R/W	R/W WIDTH	YEAR
CTH Z	PLAT PROJECT 100-101	66'	1959
POWERS RD	PLAT PROJECT 100-101	66'	1959

NOTES:

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REVISION DATE	DATE 07-28-2023	SCALE, FEET 0 50 100	HWY: CTH Z	STATE R/W PROJECT NUMBER 4679-02-00	PLAT SHEET 4.10	
	GRID FACTOR 0.99996944		COUNTY: OUTAGAMIE	CONSTRUCTION PROJECT NUMBER 469-02-71	PS&E SHEET 70	E

FILE NAME : TPP100.DWG
LAYOUT NAME - 4.10

PLOT DATE : 7/27/2023 12:30 PM PLOT BY : WEINREIS, CHRIS PLOT NAME : PLOT SCALE :

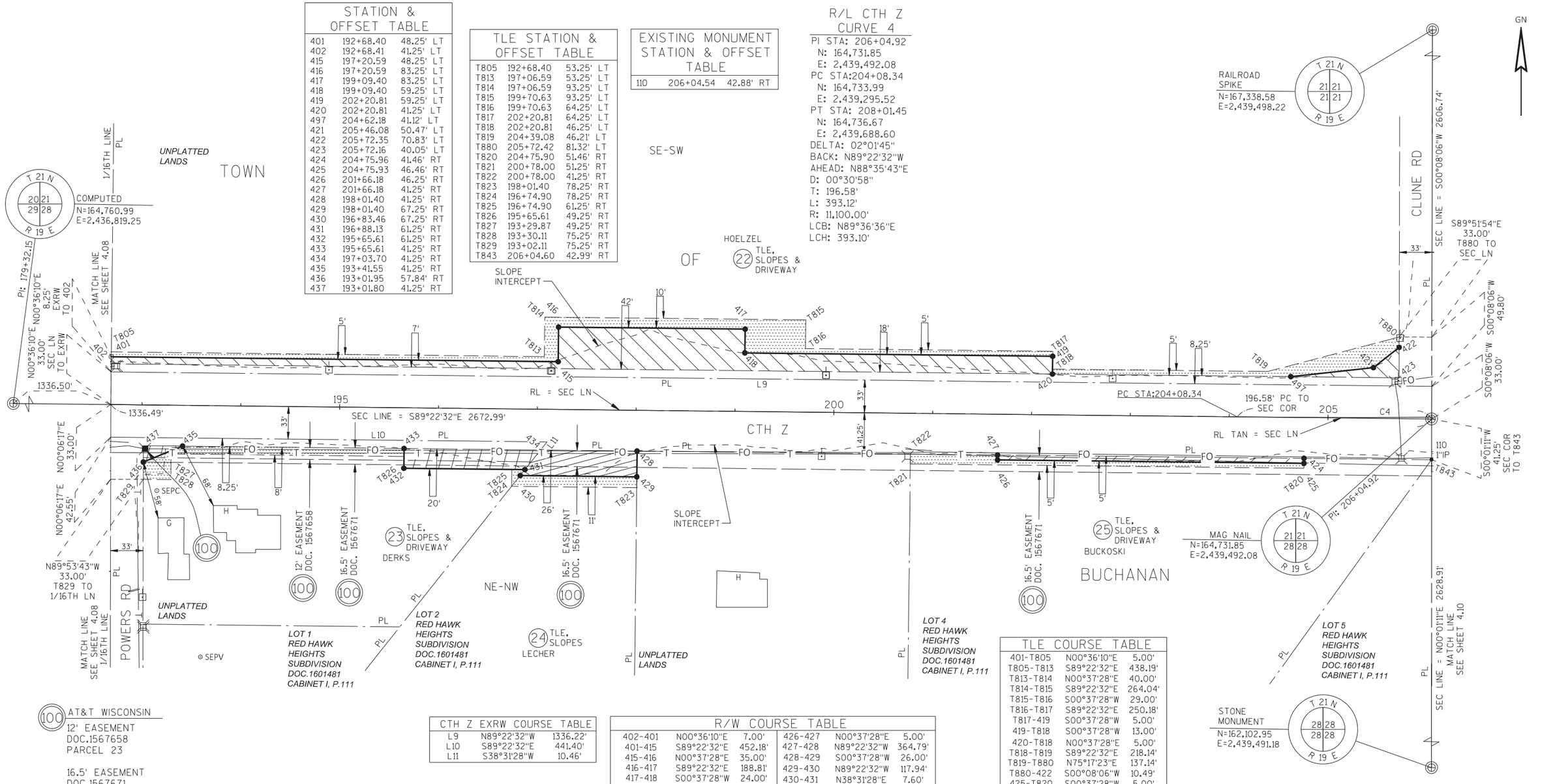
STATION & OFFSET TABLE		
401	192+68.40	48.25' LT
402	192+68.41	41.25' LT
415	197+20.59	48.25' LT
416	197+20.59	83.25' LT
417	199+09.40	83.25' LT
418	199+09.40	59.25' LT
419	202+20.81	59.25' LT
420	202+20.81	41.25' LT
497	204+62.18	41.12' LT
421	205+46.08	50.47' LT
422	205+72.35	70.83' LT
423	205+72.16	40.05' LT
424	204+75.96	41.46' RT
425	204+75.93	46.46' RT
426	201+66.18	46.25' RT
427	201+66.18	41.25' RT
428	198+01.40	41.25' RT
429	198+01.40	67.25' RT
430	196+83.46	67.25' RT
431	196+88.13	61.25' RT
432	195+65.61	61.25' RT
433	195+65.61	41.25' RT
434	197+03.70	41.25' RT
435	193+41.55	41.25' RT
436	193+01.95	57.84' RT
437	193+01.80	41.25' RT

TLE STATION & OFFSET TABLE		
T805	192+68.40	53.25' LT
T813	197+06.59	53.25' LT
T814	197+06.59	93.25' LT
T815	199+70.63	93.25' LT
T816	199+70.63	64.25' LT
T817	202+20.81	64.25' LT
T818	202+20.81	46.25' LT
T819	204+39.08	46.21' LT
T880	205+72.42	81.32' LT
T820	204+75.90	51.46' RT
T821	200+78.00	51.25' RT
T822	200+78.00	41.25' RT
T823	198+01.40	78.25' RT
T824	196+74.90	78.25' RT
T825	196+74.90	61.25' RT
T826	195+65.61	49.25' RT
T827	193+29.87	49.25' RT
T828	193+30.11	75.25' RT
T829	193+02.11	75.25' RT
T843	206+04.60	42.99' RT

EXISTING MONUMENT STATION & OFFSET TABLE		
110	206+04.54	42.88' RT

R/L CTH Z
CURVE 4

PI STA: 206+04.92
N: 164,731.85
E: 2,439,492.08
PC STA:204+08.34
N: 164,733.99
E: 2,439,295.52
PT STA: 208+01.45
N: 164,736.67
E: 2,439,688.60
DELTA: 02°01'45"
BACK: N89°22'32"W
AHEAD: N88°35'43"E
D: 00°30'58"
T: 196.58'
L: 393.12'
R: 11,100.00'
LCB: N89°36'36"E
LCH: 393.10'



CTH Z EXRW COURSE TABLE		
L9	N89°22'32"W	1336.22'
L10	S89°22'32"E	441.40'
L11	S38°31'28"W	10.46'

R/W COURSE TABLE					
402-401	N00°36'10"E	7.00'	426-427	N00°37'28"E	5.00'
401-415	S89°22'32"E	452.18'	427-428	N89°22'32"W	364.79'
415-416	N00°37'28"E	35.00'	428-429	S00°37'28"W	26.00'
416-417	S89°22'32"E	188.81'	429-430	N89°22'32"W	117.94'
417-418	S00°37'28"W	24.00'	430-431	N38°31'28"E	7.60'
418-419	S89°22'32"E	311.41'	431-432	N89°22'32"W	122.52'
419-420	S00°37'28"W	18.00'	432-433	N00°37'28"E	20.00'
420-497	S89°22'32"E	241.17'	433-435	N89°22'32"W	224.07'
497-421	N83°44'54"E	84.07'	435-436	S67°53'15"W	42.93'
421-422	N51°54'53"E	33.13'	436-437	N00°06'17"E	16.60'
422-423	S00°08'06"W	30.79'	437-435	S89°22'32"E	39.75'
423-497	N89°22'32"W	109.58'	427-424	S89°22'32"E	310.03'
420-402	N89°22'32"W	952.40'	431-434	N38°31'28"E	25.35'
T843-424	N89°22'32"W	129.14'	434-428	S89°22'32"E	97.70'
424-425	S00°37'28"W	5.00'	433-434	S89°22'32"E	138.09'
425-426	N89°22'32"W	310.03'			

TLE COURSE TABLE		
401-T805	N00°36'10"E	5.00'
T805-T813	S89°22'32"E	438.19'
T813-T814	N00°37'28"E	40.00'
T814-T815	S89°22'32"E	264.04'
T815-T816	S00°37'28"W	29.00'
T816-T817	S89°22'32"E	250.18'
T817-419	S00°37'28"W	5.00'
419-T818	S00°37'28"W	13.00'
420-T818	N00°37'28"E	5.00'
T818-T819	S89°22'32"E	218.14'
T819-T880	N75°17'23"E	137.14'
T880-422	S00°08'06"W	10.49'
425-T820	S00°37'28"W	5.00'
T820-T821	N89°22'32"W	398.22'
T821-T822	N00°37'28"E	10.00'
T822-427	S89°22'32"E	88.19'
429-T823	S00°37'28"W	11.00'
T823-T824	N89°22'32"W	126.50'
T824-430	N38°31'28"E	13.94'
T824-T825	N00°37'28"E	17.00'
T825-431	S89°22'32"E	13.23'
433-T826	S00°37'28"W	8.00'
T826-T827	N89°22'32"W	235.74'
T827-T828	S00°06'17"W	26.00'
T828-T829	N89°22'32"W	28.00'
T829-436	N00°06'17"E	17.41'

100 AT&T WISCONSIN
12' EASEMENT
DOC.1567658
PARCEL 23

16.5' EASEMENT
DOC.1567671
PARCELS 23, 24 & 25

HWY	BASIS OF EXISTING R/W	R/W WIDTH	YEAR
CTH Z	PLAT PROJECT 100-101	66'	1959
CTH Z	RED HAWK HEIGHTS SUB	41.25'	2004

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN STATE PLANE COORDINATE SYSTEM (WSPCS), CENTRAL ZONE, NAD83 (2011) IN US SURVEY FEET.

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

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT OUTAGAMIE COUNTY.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 3/4" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

THE PLAT REFERENCE LINE IS BASED ON THE SECTION LINE. THE ROADWAY DESIGN REFERENCE LINE IS BASED ON THE EASTBOUND LANE.

REVISION DATE			

DATE 07-28-2023
GRID FACTOR 0.99996944

SCALE, FEET
0 50 100

HWY: CTH Z
COUNTY: OUTAGAMIE

STATE R/W PROJECT NUMBER 4679-02-00
CONSTRUCTION PROJECT NUMBER 4679-02-71

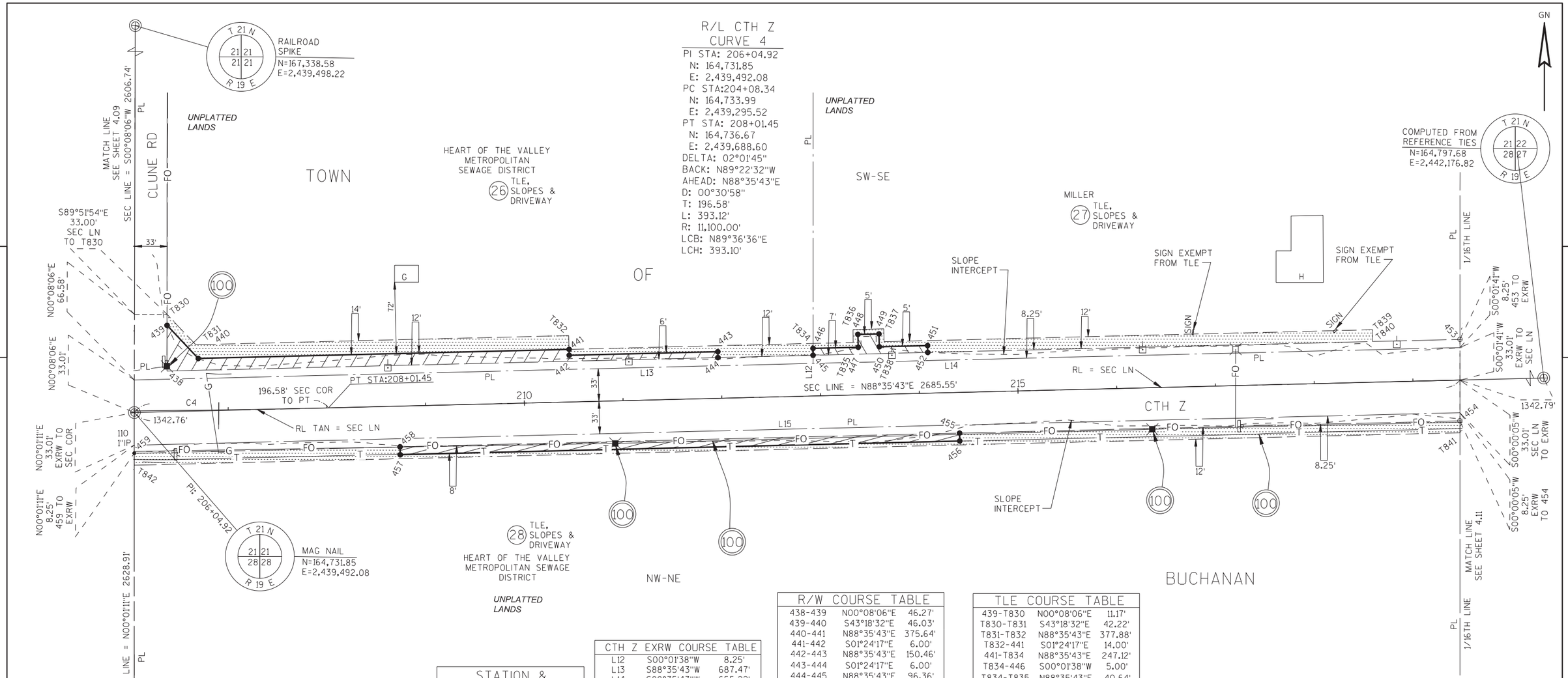
PLAT SHEET 4.11
PS&E SHEET 71 E

FILE NAME : TPP100.DWG
LAYOUT NAME - 4.11

PLOT DATE : 7/27/2023 12:29 PM PLOT BY : WEINREIS, CHRIS PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 75

4



STATION & OFFSET TABLE		
438	206+38.40	40.06' LT
439	206+38.97	86.33' LT
440	206+70.35	52.48' LT
441	210+46.62	53.25' LT
442	210+46.62	47.25' LT
443	211+97.08	47.25' LT
444	211+97.08	41.25' LT
445	212+93.44	41.25' LT
446	212+93.61	48.25' LT
447	213+39.37	48.25' LT
448	213+39.37	61.25' LT
449	213+60.71	61.25' LT
450	213+60.71	48.25' LT
451	214+09.59	48.25' LT
452	214+09.59	41.25' LT
453	219+48.66	41.25' LT
454	219+46.61	41.25' RT
455	214+39.79	41.25' RT
456	214+39.79	49.25' RT
457	208+73.09	49.25' RT
458	208+73.09	41.25' RT
459	206+04.60	43.00' RT

CTH Z EXRW COURSE TABLE		
L12	S00°01'38"W	8.25'
L13	S88°35'43"W	687.47'
L14	S88°35'43"W	655.22'
L15	N88°35'43"E	1342.76'

TLE STATION & OFFSET TABLE		
T830	206+39.11	97.50' LT
T831	206+67.93	66.45' LT
T832	210+46.62	67.25' LT
T834	212+93.74	53.25' LT
T835	213+34.37	53.25' LT
T836	213+34.37	66.25' LT
T837	213+65.71	66.25' LT
T838	213+65.71	53.25' LT
T839	218+60.18	53.25' LT
T840	218+60.18	41.25' LT
T841	219+46.31	53.25' RT
T842	206+04.52	55.01' RT

EXISTING MONUMENT STATION & OFFSET TABLE		
110	206+04.54	42.88' RT

R/W COURSE TABLE		
438-439	N00°08'06"E	46.27'
439-440	S43°18'32"E	46.03'
440-441	N88°35'43"E	375.64'
441-442	S01°24'17"E	6.00'
442-443	N88°35'43"E	150.46'
443-444	S01°24'17"E	6.00'
444-445	N88°35'43"E	96.36'
445-446	N00°01'38"E	7.00'
446-447	N88°35'43"E	45.76'
447-448	N01°24'17"W	13.00'
448-449	N88°35'43"E	21.33'
449-450	S01°24'17"E	13.00'
450-451	N88°35'43"E	48.89'
451-452	S01°24'17"E	7.00'
452-453	N88°35'43"E	539.06'
444-438	S88°35'43"W	558.08'
452-445	S88°35'43"W	116.16'
454-455	S88°35'43"W	506.82'
455-456	S01°24'17"E	8.00'
456-457	S88°35'43"W	566.70'
457-458	N01°24'17"W	8.00'
458-459	S88°35'43"W	269.24'
458-455	N88°35'43"E	566.70'

TLE COURSE TABLE		
439-T830	N00°08'06"E	11.17'
T830-T831	S43°18'32"E	42.22'
T831-T832	N88°35'43"E	377.88'
T832-441	S01°24'17"E	14.00'
441-T834	N88°35'43"E	247.12'
T834-446	S00°01'38"W	5.00'
T834-T835	N88°35'43"E	40.64'
T835-T836	N01°24'17"W	13.00'
T836-T837	N88°35'43"E	31.33'
T837-T838	S01°24'17"E	13.00'
T838-T839	N88°35'43"E	494.47'
T839-T840	S01°24'17"E	12.00'
T840-452	S88°35'43"W	450.58'
T840-453	N88°35'43"E	88.48'
454-T841	S00°00'05"W	12.00'
T841-T842	S88°35'43"W	1342.76'
T842-459	N00°01'11"E	12.00'

HWY	BASIS OF EXISTING R/W	R/W WIDTH	YEAR
CTH Z	PLAT PROJECT 100-101	66'	1959

100 AT&T WISCONSIN
NO EASEMENT OF RECORD
PARCELS 26 & 28

103 ANR PIPELINE
NON DESCRIPT EASEMENT
DOC.684032
V.953, P.33
PARCELS 26, 27 & 28

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN STATE PLANE COORDINATE SYSTEM (WSPCS), CENTRAL ZONE, NAD83 (2011) IN US SURVEY FEET.

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THE PLAT REFERENCE LINE IS BASED ON THE SECTION LINE. THE ROADWAY DESIGN REFERENCE LINE IS BASED ON THE EASTBOUND LANE.

REVISION DATE

DATE 07-28-2023

GRID FACTOR 0.99996944

SCALE, FEET 0 50 100

HWY: CTH Z

COUNTY: OUTAGAMIE

STATE R/W PROJECT NUMBER 4679-02-00

CONSTRUCTION PROJECT NUMBER 4679-02-71

PLAT SHEET 4.12

PS&E SHEET 72

E

FILE NAME : TPP100.DWG
LAYOUT NAME - 4.12

PLOT DATE : 7/27/2023 12:30 PM PLOT BY : WEINREIS, CHRIS PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 75

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN STATE PLANE COORDINATE SYSTEM (WSPCS), CENTRAL ZONE, NAD83 (2011) IN US SURVEY FEET.

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

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT OUTAGAMIE COUNTY.

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THE PLAT REFERENCE LINE IS BASED ON THE SECTION LINE. THE ROADWAY DESIGN REFERENCE LINE IS BASED ON THE EASTBOUND LANE.

R/W COURSE TABLE					
453-460	N88°35'43"E	46.09'	477-478	S00°00'36"E	106.93'
460-461	N01°24'17"W	10.00'	478-479	N45°27'48"W	125.10'
461-462	N88°35'43"E	146.96'	479-480	S88°35'43"W	387.78'
462-463	N01°24'17"W	6.00'	480-481	N01°24'17"W	17.00'
463-464	N88°35'43"E	16.67'	481-482	S88°35'43"W	444.54'
464-465	S01°24'17"E	6.00'	482-483	S01°24'17"E	13.00'
465-466	N88°35'43"E	161.06'	483-486	S88°35'43"W	253.12'
466-467	S01°24'17"E	6.00'	486-487	N01°24'17"W	13.00'
467-468	N88°35'43"E	139.63'	487-454	S88°35'43"W	134.76'
468-469	S01°24'17"E	4.00'	481-477	N88°35'43"E	477.37'
469-470	N88°35'43"E	321.01'	483-484	S88°35'43"W	58.17'
470-471	N01°24'17"W	9.00'	484-485	N00°00'02"E	13.00'
471-474	N88°35'43"E	382.16'	485-482	N88°35'43"E	57.85'
474-475	N44°28'16"E	137.27'	484-486	S88°35'43"W	194.95'
475-476	S00°04'48"E	104.60'	487-485	N88°35'43"E	195.27'
476-473	S88°35'43"W	452.99'			
471-472	N88°35'43"E	25.50'			
472-473	S00°04'48"E	9.00'			
473-470	S88°35'43"W	25.30'			
472-474	N88°35'43"E	356.66'			
469-460	S88°35'43"W	464.32'			

(100) AT&T WISCONSIN
10' UTILITY EASEMENT PER COUNTY LINE ACRES SUBDIVISION PLAT DOC.1462782 CABINET II, P.169 AND CSM 3745 DOC.1367205 V.20, P.3745 PARCELS 31, 32 & 33

NO RECORD OF EASEMENT PARCEL 30

(102) KAUKANA UTILITIES -ELECTRIC
10' UTILITY EASEMENT PER COUNTY LINE ACRES SUBDIVISION PLAT DOC.1462782 CABINET II, P.169 AND CSM 3745 DOC.1367205 V.20, P.3745 PARCELS 31, 32 & 33

MAG NAIL WITH BRASS WASHER
N=167,379.29
E=2,442,173.22

T 21 N / R 19 E: 21 22 / 21 22

GN

SE-SE

TOWN OF BUCHANAN

1/16TH LINE PL

MATCH LINE SEE SHEET 4.10

CTH Z

OUTAGAMIE RD

SEC LINE = S00°04'48"E 2581.61'

N89°55'12"E 33.00' T855 TO SEC LN

S00°04'48"E 152.23'

S00°00'36"E 149.00'

SEC LINE = N88°35'43"E 2685.55'

RL = SEC LN

PC STA:231+11.87

178.55' PC TO SEC COR

RL TAN = SEC LN

NO0°01'41"E 41.26' SEC LN TO 453

NO0°00'05"E 41.26' 454 TO SEC LN

1342.79'

1342.76'

220

225

230

33'

BRANTMEIER (29) TLE, SLOPES & DRIVEWAY

BRANTMEIER (30) TLE, SLOPES

(31) TLE, SLOPES & DRIVEWAY BROEREN

(32) TLE, SLOPES & DRIVEWAY LUKES

(33) TLE, SLOPES WURST

SLOPE INTERCEPT

10' EASEMENT COUNTYLINE ACRES, COUNTY PLAT AND CSM 3745

LOT 1 CSM 3654 DOC.1353407 V.19, P.3654

LOT 2 CSM 3654 DOC.1353407 V.19, P.3654

LOT 3 COUNTYLINE ACRES, COUNTY PLAT DOC.1462782 CABINET II, P.169

LOT 4 CSM 3745 DOC.1367205 V.20, P.3745

LOT 1 CSM 7480 DOC.2123342 V.45, P.7480

PI STA: 206+04.92

COMPUTED FROM REFERENCE TIES
N=164,797.68
E=2,442,176.82

T 21 N / R 19 E: 21 22 / 28 27

MAG NAIL
N=164,731.85
E=2,439,492.08

T 21 N / R 19 E: 28 27 / 28 27

MAG NAIL
N=162,147.93
E=2,442,177.29

EXISTING MONUMENT STATION & OFFSET TABLE		
111	228+05.14	40.89' LT
112	232+56.65	40.35' RT

HWY	BASIS OF EXISTING R/W	R/W WIDTH	YEAR
CTH Z	PLAT PROJECT 100-101	66'	1959
CTH Z	CSM 3654	41.25'	2000
CTH Z	CSM 3745	41.25'	2000
CTH Z	CSM 7480	41.25'	2017
CTH Z	COUNTYLINE ACRES COUNTY PLAT	41.25'	2002
OUTAGAMIE RD	CSM 3654	33'	2000
OUTAGAMIE RD	COUNTYLINE ACRES COUNTY PLAT	33'	2002
OUTAGAMIE RD	PLAT PROJECT 100-101	66'	1959

R/L CTH Z CURVE 5
PI STA: 232+41.69
N: 164,796.49
E: 2,442,128.11
PC STA:231+11.87
N: 164,793.31
E: 2,441,998.32
PT STA: 233+71.50
N: 164,796.63
E: 2,442,257.93
DELTA: 01°20'25"
BACK: S88°35'43"W
AHEAD: N89°56'08"E
D: 00°30'58"
T: 129.82'
L: 259.63'
R: 11,100.00'
LCB: N89°15'56"E
LCH: 259.62'

STATION & OFFSET TABLE		
453	219+48.66	41.25' LT
454	219+46.61	41.25' RT
460	219+94.75	41.25' LT
461	219+94.75	51.25' LT
462	221+41.71	51.25' LT
463	221+41.71	57.25' LT
464	221+58.37	57.25' LT
465	221+58.37	51.25' LT
466	223+19.43	51.25' LT
467	223+19.43	45.25' LT
468	224+59.07	45.25' LT
469	224+59.07	41.25' LT
470	227+80.08	41.25' LT
471	227+80.08	50.25' LT
472	228+05.58	50.25' LT
473	228+05.38	41.25' LT
474	231+62.02	50.36' LT
475	232+58.84	146.81' LT
476	232+57.82	42.21' LT
477	232+56.94	40.31' RT
478	232+55.72	147.23' RT
479	231+67.10	58.11' RT
480	227+79.03	58.25' RT
481	227+79.03	41.25' RT
482	223+34.49	41.25' RT
483	223+34.49	54.25' RT
484	222+76.32	54.25' RT
485	222+76.64	41.25' RT
486	220+81.36	54.25' RT
487	220+81.36	41.25' RT

TLE STATION & OFFSET TABLE		
T844	219+69.94	41.25' LT
T845	219+69.94	55.25' LT
T846	221+41.71	55.25' LT
T847	221+41.71	63.25' LT
T848	221+58.37	63.25' LT
T849	221+58.37	56.25' LT
T850	228+05.72	56.25' LT
T851	228+05.75	57.25' LT
T852	231+69.17	57.40' LT
T853	232+33.87	121.69' LT
T854	232+33.95	128.82' LT
T855	232+58.91	153.93' LT
T856	231+71.99	63.09' RT
T857	227+79.03	63.25' RT
T858	226+61.70	41.25' RT
T859	226+61.70	46.25' RT
T860	223+50.47	46.25' RT
T861	223+50.47	59.25' RT
T862	222+76.20	59.25' RT
T863	220+73.81	59.25' RT
T864	220+73.81	45.25' RT
T865	219+46.51	45.25' RT

TLE COURSE TABLE					
453-T844	N88°35'43"E	21.28'	479-T856	S45°27'48"E	6.96'
460-T844	S88°35'43"W	24.81'	T856-T857	S88°35'43"W	392.61'
T844-T845	N01°24'17"W	14.00'	T857-480	N01°24'17"W	5.00'
T845-T846	N88°35'43"E	171.76'	481-T858	S88°35'43"W	117.33'
T846-462	S01°24'17"E	4.00'	T858-T859	S01°24'17"E	5.00'
T846-463	N01°24'17"W	2.00'	T859-T860	S88°35'43"W	311.23'
463-T847	N01°24'17"W	6.00'	T860-T861	S01°24'17"E	13.00'
T847-T848	N88°35'43"E	16.67'	T861-T862	S88°35'43"W	74.28'
T848-464	S01°24'17"E	6.00'	T862-484	N00°00'02"E	5.00'
464-T849	S01°24'17"E	1.00'	482-T858	N88°35'43"E	327.21'
465-T849	N01°24'17"W	5.00'	T862-T863	S88°35'43"W	202.38'
T849-T850	N88°35'43"E	647.35'	T863-T864	N01°24'17"W	14.00'
T850-472	S00°04'48"E	6.00'	T864-T865	S88°35'43"W	127.30'
T850-T851	N00°04'48"W	1.00'	T865-454	N00°00'05"E	4.00'
T851-T852	N88°35'43"E	363.72'			
T852-474	S44°28'16"W	10.05'			
T852-T853	N44°28'16"E	91.58'			
T853-T854	N00°04'48"W	7.13'			
T854-T855	N44°28'16"E	35.64'			
T855-475	S00°04'48"E	7.13'			
475-T853	S44°28'16"W	35.64'			

REFERENCE LINE TABLE		
POT	Y	X
232+90.39	164,796.25	2,442,176.82

REVISION DATE	DATE 07-28-2023	SCALE, FEET 0 50 100	HWY: CTH Z	STATE R/W PROJECT NUMBER 4679-02-00	PLAT SHEET 4.13	
	GRID FACTOR 0.99996944		COUNTY: OUTAGAMIE	CONSTRUCTION PROJECT NUMBER 4679-02-71	PS&E SHEET 73	E

FILE NAME : TPP100.DWG
LAYOUT NAME - 4.13

PLOT DATE : 7/27/2023 12:28 PM PLOT BY : WEINREIS, CHRIS PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 75

CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W OR HE LINE
PROPERTY LINE
LOT, TIE, & OTHER MINOR LINES
SIGHT INTERCEPT
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC) — W (TYP.)
NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)
TEMPORARY LIMITED EASEMENT AREA
EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING
TO BE REMOVED
BRIDGE
CULVERT

SECTION CORNER SYMBOL
SECTION CORNER MONUMENT
GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
SIGN — SGN
OFF-PREMISE SIGN — SGN

R/W MONUMENT (TO BE SET)
NON-MONUMENTED R/W POINT
FOUND IRON PIN (1-INCH UNLESS NOTED) — IP

	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)
NO ACCESS (NEW HIGHWAY)
PARCEL NUMBER — 25
UTILITY NUMBER — 40
PARALLEL OFFSETS

CONVENTIONAL ABBREVIATIONS

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

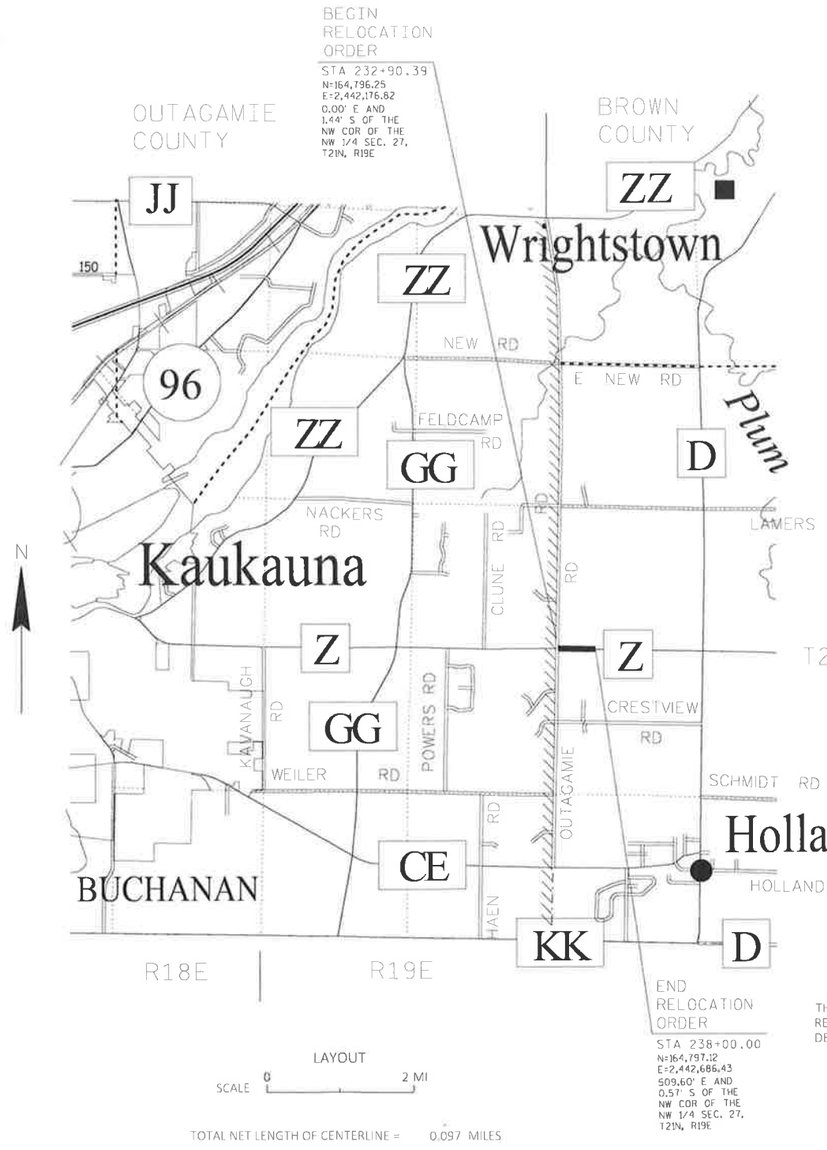
CONVENTIONAL UTILITY SYMBOLS

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

	NON-COMPENSABLE	COMPENSABLE
POWER POLE	□	■
TELEPHONE POLE	⌀	●
TELEPHONE PEDESTAL	✖	✖

CURVE DATA ABBREVIATIONS

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



R/W PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
4679-02-00	1	4
FEDERAL PROJECT NUMBER: N/A		

PLAT OF RIGHT OF WAY REQUIRED FOR

CTH Z
WEST COUNTY LINE (OUTAGAMIE RD)

CTH Z	BROWN COUNTY

CONSTRUCTION PROJECT NUMBER: 4679-02-71

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN STATE PLANE COORDINATE SYSTEM (WSPCS), CENTRAL ZONE, NAD83 (2011) IN US SURVEY FEET.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 3/4" X 24" IRON REBARS), 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, CENTERLINE OF EXISTING PAVEMENTS AND/OR EXISTING OCCUPATIONAL LINES.

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

FOR CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT BROWN COUNTY.

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

PROPERTY LINES SHOWN ON THIS PLAT FOR PROPERTIES BEING IMPACTED ARE DRAWN FROM DATA DERIVED FROM FILED/RECORDED MAPS AND DOCUMENTS OF PUBLIC RECORD. 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.

INFORMATION FOR THE BASIS OF EXISTING HIGHWAY RIGHT-OF-WAY POINTS OF REFERENCE AND ACCESS CONTROL ARE LISTED ON DETAIL SHEETS.

THIS PLAT IS A GRAPHIC REPRESENTATION AND IS FOR REFERENCE PURPOSES ONLY. DEEDS MUST BE CHECKED TO DETERMINE PROPERTY BOUNDARIES AND ACCESS RIGHTS.

ORIGINAL PLAT PREPARED BY

raSmith
CREATIVITY BEYOND ENGINEERING

[illegible] W. [illegible] Rd. [illegible] WI 53225
262.781.0555 fax 262.781.3466
www.rasmith.com

WISCONSIN
MICHAEL J. RATZBURG
S-2236
WAUKESHA
LAND SURVEYOR

DATE: 07/28/2023

LAND SURVEYOR

BROWN COUNTY

REVISION DATE

APPROVED FOR BROWN COUNTY

DATE: 8/2/23 Paul Fontecchio

APPROVED FOR OUTAGAMIE COUNTY

DATE: 8/1/23

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO BROWN COUNTY.

PARCEL NUMBER	SHEET NUMBER	OWNER	INTEREST(S) REQUIRED	R/W REQUIRED ACRES			T.L.E. ACRES	P.L.E. ACRES
				NEW	EXISTING	TOTAL		
34	4.04	AAK HOLDINGS III, LLC.	FEE, TLE	0.234	-	0.234	0.045	-
35	4.04	AARON P. SCHMITT	FEE, TLE	0.152	-	0.152	0.002	-

UTILITY NUMBER	SHEET NUMBER	OWNER	INTEREST REQUIRED
100	4.04	AT&T WISCONSIN	RELEASE OF RIGHTS

4

4

REVISION DATE

DATE 07-28-2023

GRID FACTOR 0.99996944

SCALE, FEET

0

HWY: CTH Z

COUNTY: BROWN

STATE R/W PROJECT NUMBER 4679-02-00

CONSTRUCTION PROJECT NUMBER 4679-02-71

PLAT SHEET 4.02

PS&E SHEET 75

E

FILE NAME : TPP100-BROWN COUNTY.DWG
LAYOUT NAME - 4.02

PLOT DATE : 7/27/2023 12:24 PM

PLOT BY : WEINREIS, CHRIS

PLOT NAME :

PLOT SCALE :

GN

NW 1/4 SE 1/4 SEC 20
NE 1/4 SE 1/4 SEC 20
NW 1/4 SW 1/4 SEC 21
NE 1/4 SW 1/4 SEC 21
NW 1/4 SE 1/4 SEC 21
NE 1/4 SE 1/4 SEC 21
NW 1/4 SW 1/4 SEC 22
NE 1/4 SW 1/4 SEC 22

SW 1/4 SE 1/4 SEC 20
SE 1/4 SE 1/4 SEC 20
SW 1/4 SW 1/4 SEC 21
SE 1/4 SW 1/4 SEC 21
SW 1/4 SE 1/4 SEC 21
SE 1/4 SE 1/4 SEC 21
SW 1/4 SW 1/4 SEC 22
SE 1/4 SW 1/4 SEC 22

CTH GG
CLUNE RD
OUTAGAMIE RD
TOWN
TOWN
CTH Z
CTH Z
34
35

END RELOCATION ORDER
STA 238+00.00
N=164,797.12
E=2,442,686.43

155 160 165 170 175 180 185 190 195 200 205 210 215 220 225 230 235 240 245 250 255 260

NW 1/4 NE 1/4 SEC 29
NE 1/4 NE 1/4 SEC 29
NW 1/4 NW 1/4 SEC 28
NE 1/4 NW 1/4 SEC 28
NW 1/4 NE 1/4 SEC 28
NE 1/4 NE 1/4 SEC 28
NW 1/4 NW 1/4 SEC 27
NE 1/4 NW 1/4 SEC 27

SW 1/4 NE 1/4 SEC 29
SE 1/4 NE 1/4 SEC 29
SW 1/4 NW 1/4 SEC 28
SE 1/4 NW 1/4 SEC 28
SW 1/4 NE 1/4 SEC 28
SE 1/4 NE 1/4 SEC 28
SW 1/4 NW 1/4 SEC 27
SE 1/4 NW 1/4 SEC 27

CTH GG
POWERS RD
OF
OUTAGAMIE RD
OF
OUTAGAMIE COUNTY
BROWN COUNTY
HOLLAND
BUCHANAN

T 21 N
R 19 E
22 22
27 27
MAG NAIL
N=164,797.41
E=2,444,803.36

BEGIN RELOCATION ORDER
STA 232+90.39
N=164,796.25
E=2,442,176.82

REVISION DATE	DATE 07-28-2023	SCALE, FEET 0 500 1000	HWY: CTH Z	STATE R/W PROJECT NUMBER 4679-02-00	PLAT SHEET 4.03
	GRID FACTOR 0.99996944		COUNTY: BROWN	CONSTRUCTION PROJECT NUMBER 4679-02-71	PS&E SHEET 76 E

FILE NAME : TPP100-BROWN COUNTY.DWG
LAYOUT NAME - 4.03

PLOT DATE : 7/27/2023 12:24 PM PLOT BY : WEINREIS, CHRIS PLOT NAME : PLOT SCALE :

R/L CTH Z CURVE 1

PI STA: 232+41.69
N: 164,796.49
E: 2,442,128.11
PC STA:231+11.87
N: 164,793.31
E: 2,441,998.32
PT STA: 233+71.50
N: 164,796.63
E: 2,442,257.93
DELTA: 01°20'25"
BACK: S88°35'43"W
AHEAD: N89°56'08"E
D: 00°30'58"
T: 129.82'
L: 259.63'
R: 11,100.00'
LCB: N89°15'56"E
LCH: 259.62'

STATION & OFFSET TABLE		
488	233+23.53	34.20' LT
489	233+23.98	146.83' LT
490	234+18.06	52.23' LT
491	236+38.23	51.96' LT
492	236+38.21	33.71' LT
493	234+38.37	32.04' RT
494	233+22.61	147.11' RT
495	233+23.23	31.80' RT

TLE STATION & OFFSET TABLE		
T866	233+24.01	153.90' LT
T867	233+45.67	131.87' LT
T868	233+45.65	124.80' LT
T869	234+11.04	59.24' LT
T870	235+56.22	59.06' LT
T871	235+56.21	52.06' LT
T894	236+38.22	43.71' LT
T895	237+16.98	43.62' LT
T896	237+16.97	33.62' LT
T891	234+53.37	32.06' RT
T892	234+27.77	42.65' RT

R/W COURSE TABLE		
488-489	N00°04'48"W	112.63'
489-490	S45°07'38"E	133.78'
490-491	S89°59'38"E	220.17'
491-492	S00°00'22"W	18.25'
492-488	N89°59'38"W	314.82'
493-494	S44°55'17"W	162.84'
494-495	N00°00'36"W	115.31'
495-493	S89°59'38"E	115.01'

REFERENCE LINE TABLE		
POT	Y	X
232+90.39	164,796.25	2,442,176.82
238+00.00	164,797.12	2,442,686.43

TLE COURSE TABLE		
489-T866	N00°04'48"W	7.07'
T866-T867	S45°07'38"E	31.09'
T867-T868	S00°04'48"E	7.07'
T868-489	N45°07'38"W	31.09'
490-T869	N45°07'38"W	9.92'
T869-T870	S89°59'38"E	145.19'
T870-T871	S00°00'22"W	7.00'
T871-490	N89°59'38"W	138.15'
T871-491	S89°59'38"E	82.02'
492-T894	N00°00'22"E	10.00'
T894-T895	S89°59'38"E	78.76'
T895-T896	S00°00'22"W	10.00'
T896-492	N89°59'38"W	78.76'
493-T891	S89°59'38"E	15.00'
T891-T892	S67°27'49"W	27.71'
T892-493	N44°55'17"E	15.00'

GN

MAG NAIL WITH BRASS WASHER
N=167,379.29
E=2,442,173.22
T 21 N, 21 22 / 21 22, R 19 E

TOWN OF SW-SW

SEC LINE = S00°04'48"E 2581.61'

OUTAGAMIE RD PL, 33'

UNPLATTED LANDS

AAK HOLDINGS III, LLC.
(34) TLE, SLOPES

SLOPE INTERCEPT

T866, T867, T868, 489, 488

T869, 490, T870, T871, 491, T894, 492

7', 18.25', 10'

T895, T896

N00°02'42"W 33.00' SEC LN TO 488

S00°00'22"W 33.00' 492 TO SEC LN

COMPUTED FROM REFERENCE TIES
N=164,797.68
E=2,442,176.82
T 21 N, 21 22 / 28 27, R 19 E

PT STA:233+71.50

32.98', 115.03', 199.76', 2278.76'

C1

235

SEC LINE = S89°59'38"E 2626.53'

RL = N89°56'08"E

EP = 238+00.00

PL, 238, 33' TO SEC LN

CTH Z

48.12" TO TAN

495, 493, 882, 881

FO

N00°02'42"W 1.10' R/L TAN TO SEC LN

N00°02'42"W 31.90' 495 TO R/L TAN

S00°00'22"W 32.04' R/L TO 493

S00°00'22"W 0.96' SEC LN TO R/L

100 SLOPE INTERCEPT

494

16.5' EASEMENT DOC.2040697

(35) TLE, SLOPES SCHMITT

UNPLATTED LANDS

HOLLAND

OUTAGAMIE COUNTY

33'

OUTAGAMIE RD PL

BP = 232+90.39 SEC LINE = N00°00'36"W 2649.75'

NW-NW

BROWN COUNTY

100 AT&T WISCONSIN
16.5' EASEMENT
DOC.2040697
PARCEL 35

T 21 N, 28 27 / 28 27, R 19 E
MAG NAIL
N=162,147.93
E=2,442,177.29

T 21 N, 22 22 / 27 27, R 19 E
MAG NAIL
N=164,797.41
E=2,444,803.36

T 21 N, 21 22 / 28 27, R 19 E

SECTION LINE/REFERENCE LINE DETAIL
NOT TO SCALE

SEC LINE = S00°04'48"E
R/L TAN=81.10'
SEC COR TO PT
SEC LINE = S89°59'38"E 2626.53'
234, 235, 236
C1
1.14' SEC COR TO TAN
BP = 232+90.39 SEC LINE = N00°00'36"W
PT STA:233+71.50
RL = N89°56'08"E

HWY	BASIS OF EXISTING R/W	R/W WIDTH	YEAR
CTH Z	DOC.3002628	N/A	2022
CTH Z	DOC.2179464	N/A	2005
OUTAGAMIE RD	DOC.3002628	N/A	2022
CTH Z	DOC.2179464	N/A	2005

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN STATE PLANE COORDINATE SYSTEM (WSPCS), CENTRAL ZONE, NAD83 (2011) IN US SURVEY FEET.

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

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT BROWN COUNTY.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 3/4" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

THE PLAT REFERENCE LINE IS BASED ON THE SECTION LINE. THE ROADWAY DESIGN REFERENCE LINE IS BASED ON THE EASTBOUND LANE.

REVISION DATE

DATE 07-28-2023
GRID FACTOR 0.99996944
SCALE, FEET 0 50 100
HWY: CTH Z
COUNTY: BROWN
STATE R/W PROJECT NUMBER 4679-02-00
CONSTRUCTION PROJECT NUMBER 4679-02-71
PLAT SHEET 4.04
PS&E SHEET 77
E

FILE NAME : TPP100-BROWN COUNTY.DWG
LAYOUT NAME - 4.04
PLOT DATE : 7/27/2023 12:23 PM
PLOT BY : WEINREIS, CHRIS
PLOT NAME :
PLOT SCALE :

WISDOT/CADDS SHEET 75

4

4

CONTROL POINTS			
NO.	DESCRIPTION	Y	X
CP 1	CHISELED "T" SET ON THE CURB ON THE NORTHERLY SIDE OF CTH Z, APPROX. 15 FT EAST OF THE EASTERLY EDGE OF HOUSE #W1076 COUNTY ROAD Z	164724.660	2429252.780
CP 2	SPIKE IN GRAVEL ON THE SOUTHERLY SIDE OF CTH Z, APPROX. 200 FT WEST OF THE WESTERLY EDGE OF DWY TO HOUSE #W999 COUNTY ROAD Z	164671.671	2429999.799

CAUTION

HIETPAS

CTH ZZ

BEGIN SHOULDER WIDENING
STA. 105+04.84 LT

SAWING ASPHALT (TYP.)

GRUBBING (TYP.)

STA 107+54 LT
RECONSTRUCT BAD FE - 40' WIDE
REMOVE SMALL PIPE CULVERT
1 - CPCS 18-INCH
2 - AEW FOR CP SLOPED SIDE DRN
STEEL 18-INCH 6 TO 1

WETLAND BOUNDARY

UNNAMED TRIBUTARY

COUNTRY AIRE HARVESTING

STA 109+89 LT
RECONSTRUCT BAD FE - 40' WIDE
REMOVE SMALL PIPE CULVERT
1 - PACS 21X15-INCH
2 - AEW FOR PA SLOPED SIDE DRN
STEEL 21X15-INCH 6 TO 1

SCHAEUBLE

STA 111+98 LT
RECONSTRUCT BAD PE - 26' WIDE
REMOVE SMALL PIPE CULVERT
1 - CPCS 18-INCH
2 - AEW FOR CP SLOPED SIDE DRN
STEEL 18-INCH 6 TO 1

1000

N

HER

CP 1

CP 2

CTH Z

HMA

R/W

CTH Z R/L

TLE

GRAV

CONC

O BORE

FIBER OPTIC NOT FIELD VERIFIED

MATCHLINE STA 114+00

BEGIN ADDED PAVED SHOULDER ONLY
STA. 101+50 RT

SLOPE INTERCEPT

NEW HORIZONS DAIRY LLC

WETLAND BOUNDARY

TO THE FOX RIVER

STA 112+50 LT
CONSTRUCT BAD FE - 40' WIDE
1 - CPCS 18-INCH
2 - AEW FOR CP SLOPED SIDE
DRN STEEL 18-INCH 6 TO 1

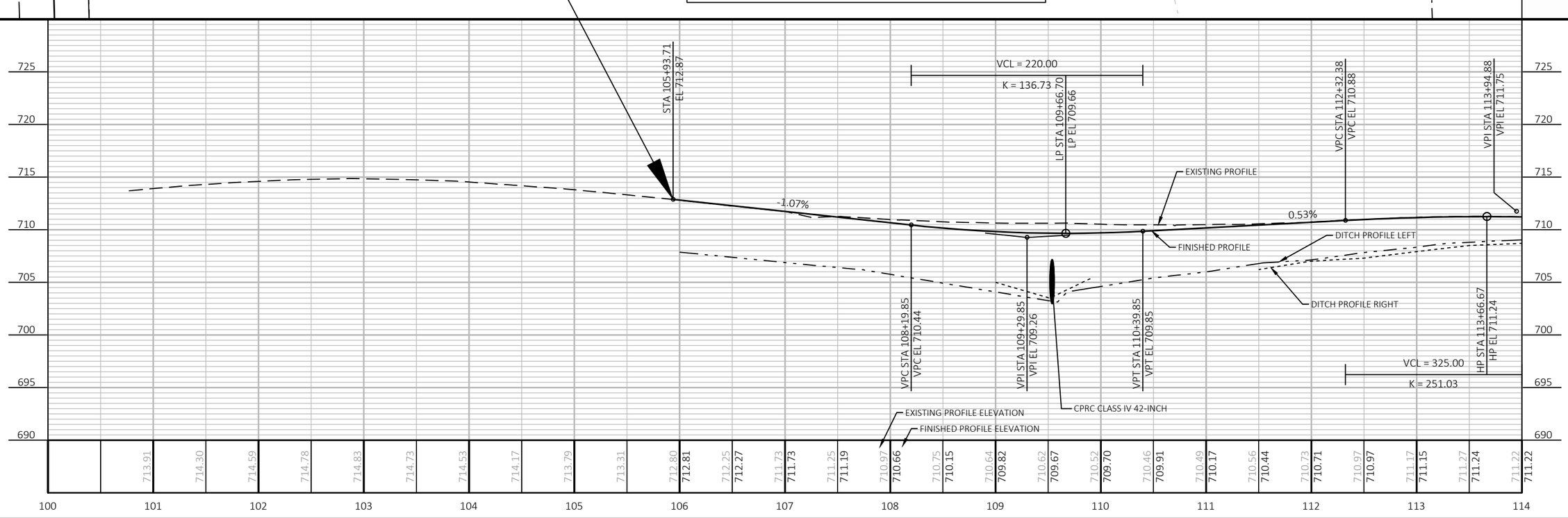
STA 113+27 LT
RECONSTRUCT BAD CE - 16' WIDE
REMOVE SMALL PIPE CULVERT
1 - CPCS 18-INCH
2 - AEW FOR CP SLOPED SIDE
DRN STEEL 18-INCH 6 TO 1

STA 109+56
CPRC CLASS IV 42-INCH REQUIRED
SKEW 8° LHF
2 - AEW FOR CP SLOPED CROSS DRAINS STEEL 42-INCH 4 TO 1
REMOVE SMALL PIPE CULVERT

HAAS RD

BEGIN PROJECT 4679-02-71
STA. 105+93.71
Y = 164,694.57
X = 2,429,482.02

BENCHMARKS		
NO.	DESCRIPTION	ELEV.
1000	TOP SOUTHEAST CONCRETE CORNER OF 1ST STEP OF HOUSE NO. 1008, CTH Z Y=164781.543, X=2430144.189	713.113



PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	PLAN AND PROFILE: PLAN & PROFILES	SHEET 78	E

STA 114+29 LT
RECONSTRUCT BAD PE - 12' WIDE
REMOVE SMALL PIPE CULVERT

STA 114+83 LT
RECONSTRUCT BAD PE - 10' WIDE
REMOVE SMALL PIPE CULVERT
1 - CPCS 18-INCH
2 - AEW FOR CP SLOPED SIDE DRN
STEEL 18-INCH 6 TO 1

MISCHLER

STA 117+62 LT
RECONSTRUCT BAD PE - 14' WIDE
REMOVE SMALL PIPE CULVERT
1 - CPCS 18-INCH
2 - AEW FOR CP SLOPED SIDE DRN
STEEL 18-INCH 6 TO 1

MISCHLER

STA 119+05 LT
RECONSTRUCT BAD FE - 40' WIDE
REMOVE SMALL PIPE CULVERT
1 - CPCS 18-INCH
2 - AEW FOR CP SLOPED SIDE
DRN STEEL 18-INCH 6 TO 1

MISCHLER

STA 119+89 LT
RECONSTRUCT BAD FE - 40' WIDE
REMOVE SMALL PIPE CULVERT
1 - CPCS 18-INCH
2 - AEW FOR CP SLOPED SIDE DRN
STEEL 18-INCH 6 TO 1

CURVE 1
PI STA = 126+17.37
R = 11100.00'
SE = NC
DESIGN SPEED = 60 MPH

N

WETLAND BOUNDARY

COUNTRY AIRE HARVESTING LLC

SLOPE INTERCEPT

HUEBNER FARMS LLC

STA 125+38 LT
RECONSTRUCT BAD FE - 50' WIDE

TYPE B2 INTERSECTION

MATCHLINE STA 114+00

MATCHLINE STA 128+00

CTH Z

CTH Z R/L

CP 101

CURVE 1

JEANTY

KLEPPS

FIBER OPTIC NOT FIELD VERIFIED

WETLAND BOUNDARY

HUEBNER FARMS LLC

SEE PLAN DETAILS FOR MORE INFORMATION
121+00 - 129+00

CONCRETE CURB & GUTTER
6-INCH SLOPED 36-INCH TYPE D

STA 122+30
CPRCHE CLASS HE-IV 29x45-INCH REQUIRED
SKEW 0°
2 - AEW FOR PIPE ARCH SLOPED CROSS DRAINS STEEL 42X29-INCH 4 TO 1
REMOVE SMALL PIPE CULVERT

KAVANAUGH RD

SAWING ASPHALT TYP.

KAVANAUGH RD R/L

CONTROL POINTS

NO.	DESCRIPTION	Y	X
CP 101	SPIKE AT THE SW CORNER OF THE CTH Z AND KAVANAUGH RD INTERSECTION, APPROX. 55 FT WEST OF KAVANAUGH RD CENTERLINE AND APPROX. 45 FT SOUTH OF THE CTH CENTERLINE	164623.639	2441541.759

BENCHMARKS

NO.	DESCRIPTION	ELEV.
1001	MAG NAIL IN NORTH FACE OF POWER POLE 44D4, 19-4 Y=164578.543, X=2431478.095	708.336

VPT STA 115+57.38
VPT EL 710.52

VCL = 200.00
K = 209.79

LP STA 122+14.60
LP EL 706.13

VCL = 250.00
K = 421.18

-0.76%

0.19%

CPRCHE CLASS HE-IV 29x45-INCH

EXISTING PROFILE

DITCH PROFILE LEFT

DITCH PROFILE RIGHT

FINISHED PROFILE

VCL = 325.00
K = 251.03

VPC STA 120+55.22
VPC EL 706.73

VPI STA 121+55.22
VPI EL 705.97

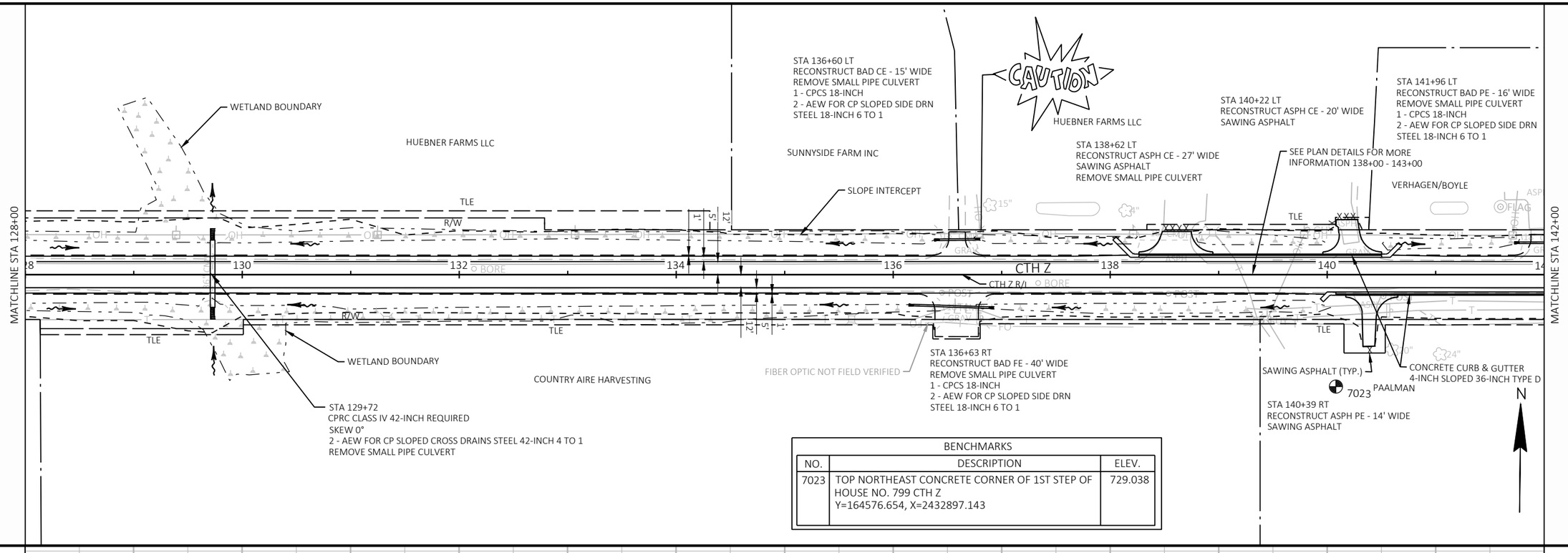
VPT STA 122+55.22
VPT EL 706.17

VPC STA 127+85.69
VPC EL 707.20

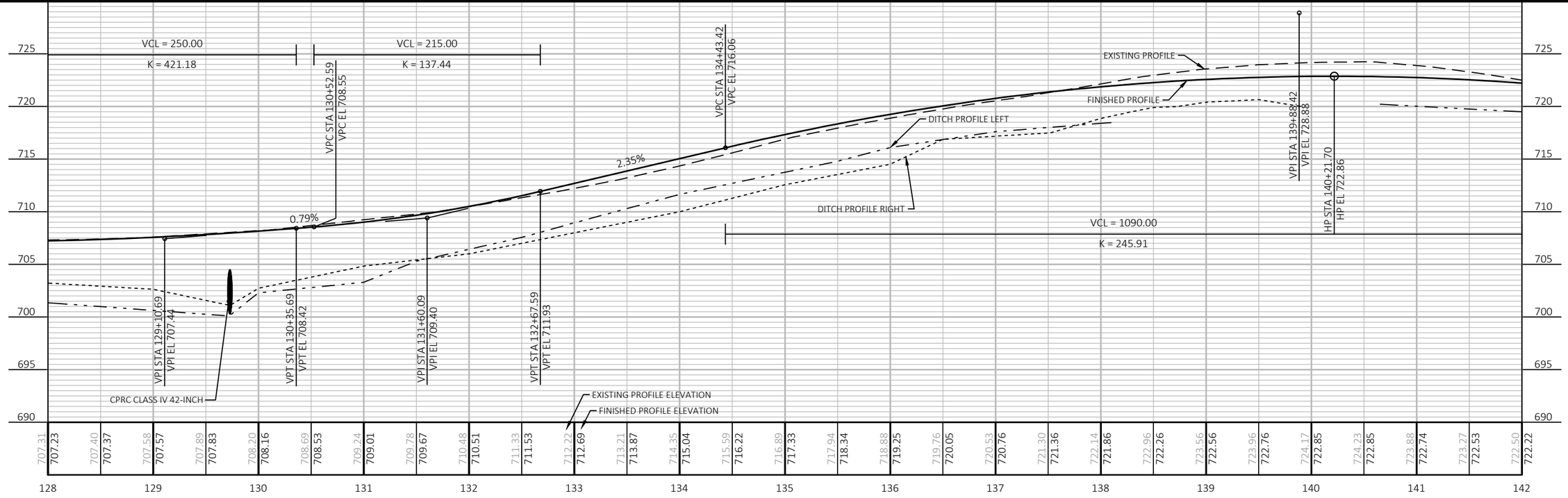
EXISTING PROFILE ELEVATION

FINISHED PROFILE ELEVATION

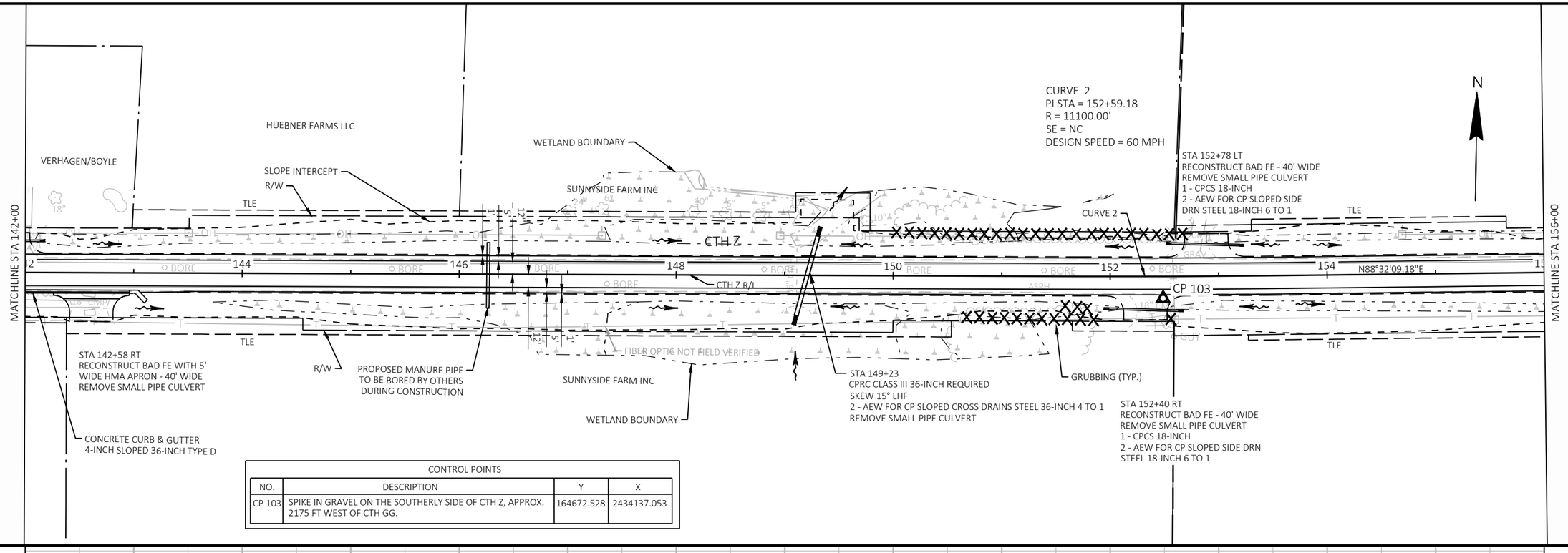
| | | |



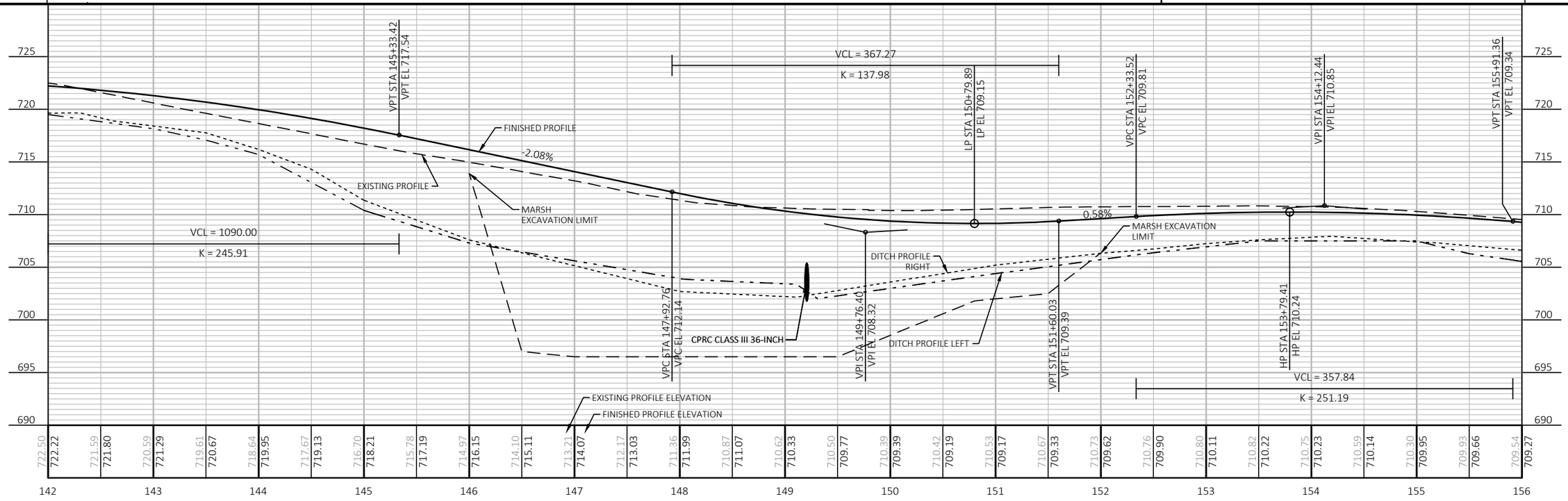
BENCHMARKS		
NO.	DESCRIPTION	ELEV.
7023	TOP NORTHEAST CONCRETE CORNER OF 1ST STEP OF HOUSE NO. 799 CTH Z Y=164576.654, X=2432897.143	729.038



PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	PLAN AND PROFILE: PLAN & PROFILES	SHEET 80	E

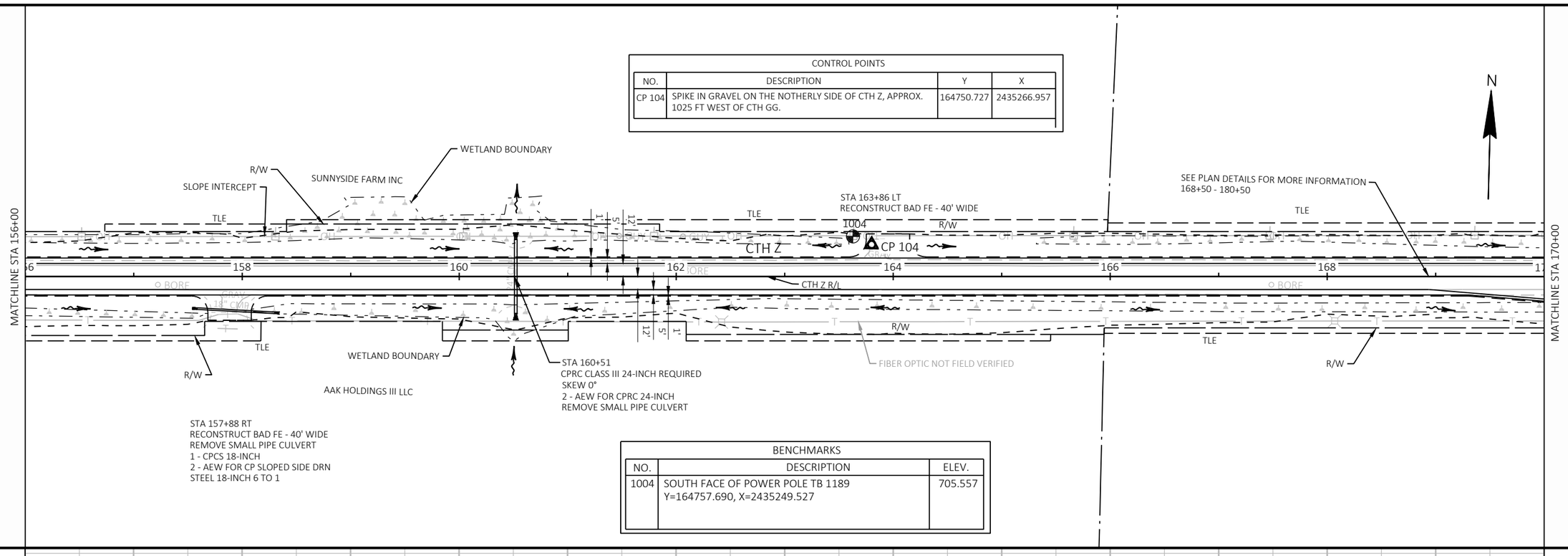


CONTROL POINTS			
NO.	DESCRIPTION	Y	X
CP 103	SPIKE IN GRAVEL ON THE SOUTHERLY SIDE OF CTH Z, APPROX. 2175 FT WEST OF CTH GG.	164672.528	2434137.053

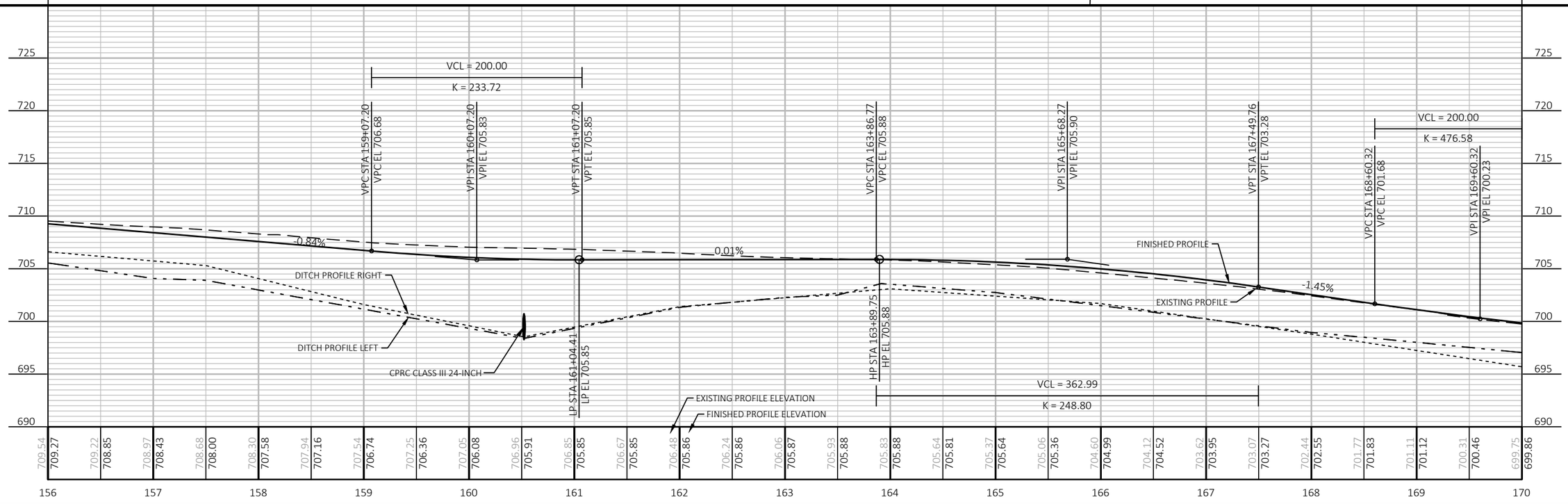


PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	PLAN AND PROFILE: PLAN & PROFILES	SHEET 81	E

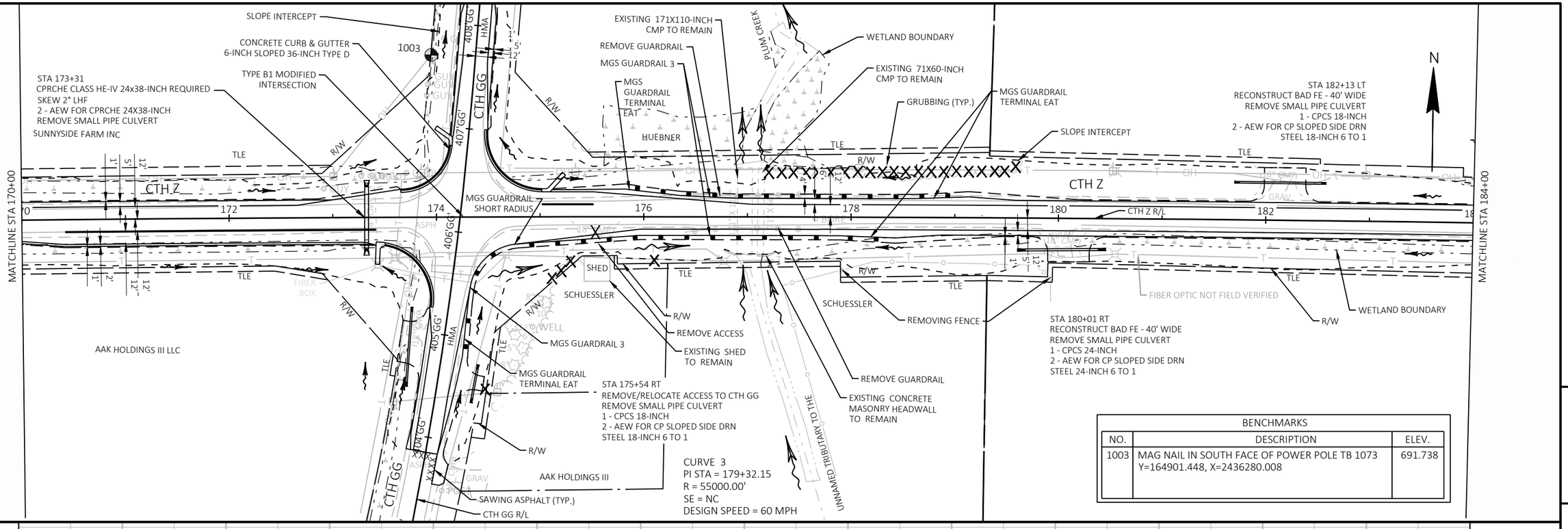
CONTROL POINTS			
NO.	DESCRIPTION	Y	X
CP 104	SPIKE IN GRAVEL ON THE NOTHERLY SIDE OF CTH Z, APPROX. 1025 FT WEST OF CTH GG.	164750.727	2435266.957

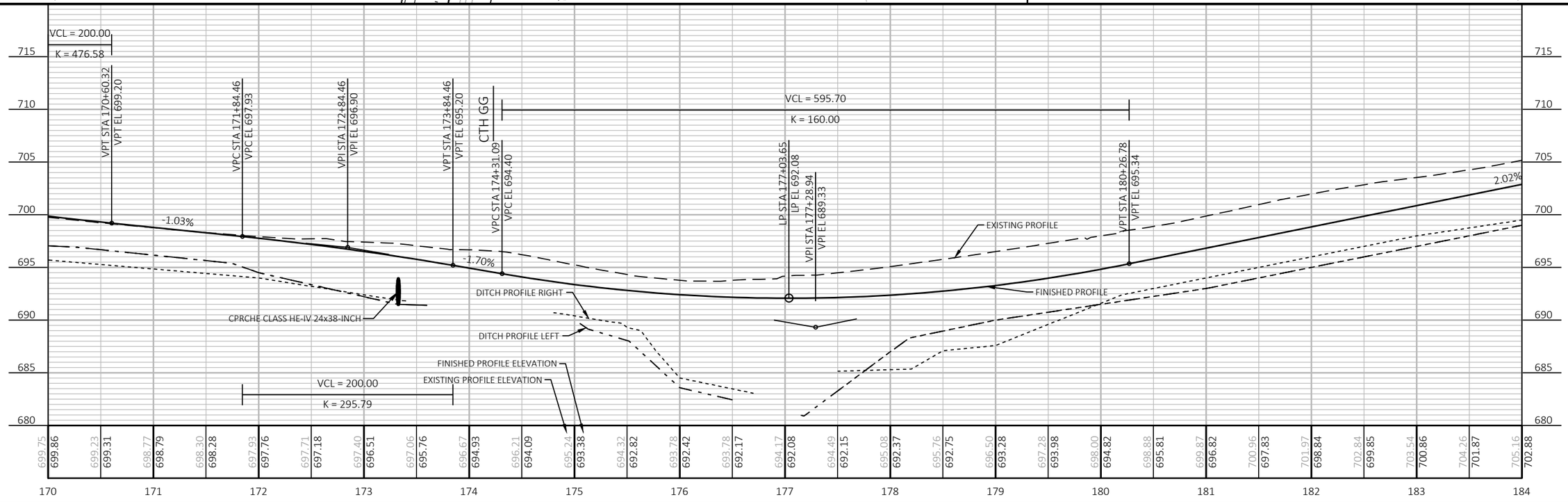


BENCHMARKS		
NO.	DESCRIPTION	ELEV.
1004	SOUTH FACE OF POWER POLE TB 1189 Y=164757.690, X=2435249.527	705.557



PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	PLAN AND PROFILE: PLAN & PROFILES	SHEET 82	E

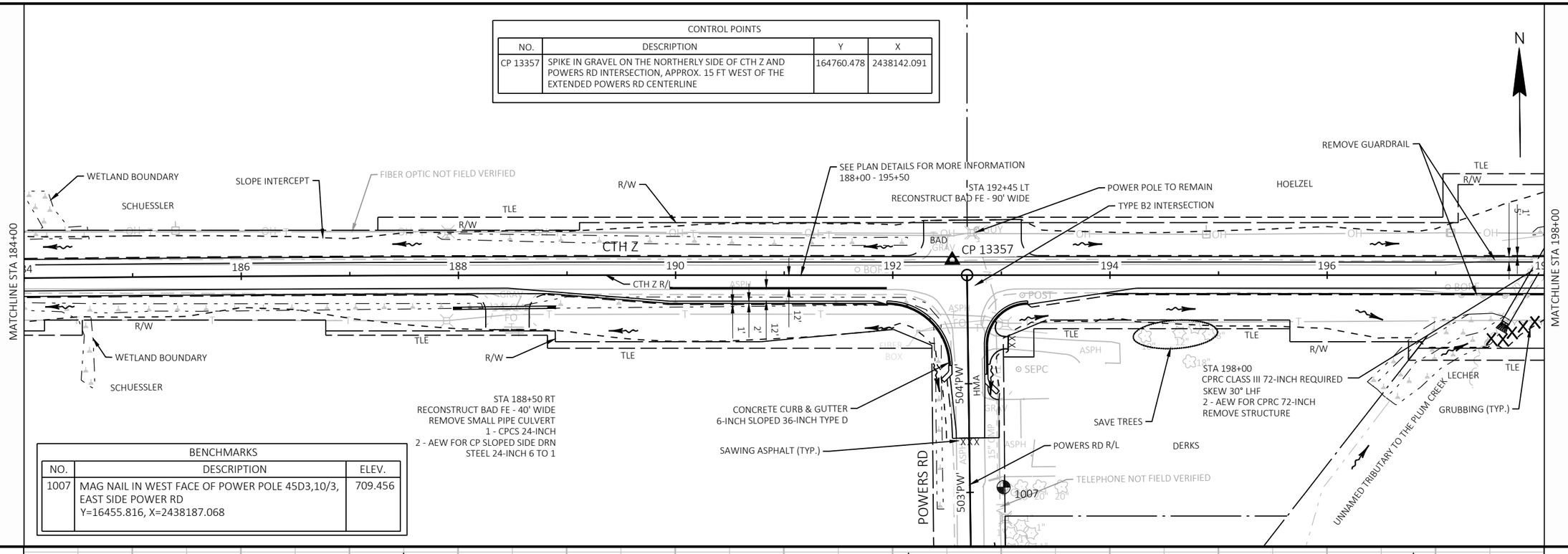




PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	PLAN AND PROFILE: PLAN & PROFILES	SHEET 83	E

CONTROL POINTS			
NO.	DESCRIPTION	Y	X
CP 13357	SPIKE IN GRAVEL ON THE NORTHERLY SIDE OF CTH Z AND POWERS RD INTERSECTION, APPROX. 15 FT WEST OF THE EXTENDED POWERS RD CENTERLINE	164760.478	2438142.091

BENCHMARKS		
NO.	DESCRIPTION	ELEV.
1007	MAG NAIL IN WEST FACE OF POWER POLE 45D3,10/3, EAST SIDE POWER RD Y=16455.816, X=2438187.068	709.456



PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	PLAN AND PROFILE: PLAN & PROFILES	SHEET 84	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\050101-PP.DWG
LAYOUT NAME - 07

PLOT DATE : 7/10/2024 9:22 AM PLOT BY : MAZARIEGOS, JAIRO PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

CONTROL POINTS			
NO.	DESCRIPTION	Y	X
CP 11949	SPIKE IN GRAVEL AT THE NORTHEAST CORNER OF THE CTH Z AND CLUNE RD INTERSECTION, APPROX. 25 FT EAST OF THE CLUNE RD CENTERLINE AND APPROX. 25 FT NORTH OF THE CTH Z CENTERLINE	164750.821	2439517.389

BENCHMARKS		
NO.	DESCRIPTION	ELEV.
1005	MAG NAIL IN SOUTH FACE OF POWER POLE, WEST SIDE CLUNE ROAD Y=164813.622, X=2439460.299	698.400

UNNAMED TRIBUTARY TO THE PLUM CREEK

HOELZEL

REMOVE GUARDRAIL

MATCHLINE STA 198+00

CTH Z

TLE

R/W

STA 199+65 RT
RECONSTRUCT BAD FE - 12' WIDE

ENGEL

SAVE FENCE & POSTS

GRUBBING (TYP.)

STA 201+00 RT
RECONSTRUCT BAD PE - 22' WIDE
REMOVE SMALL PIPE CULVERT
1 - CPCS 18-INCH
2 - AEW FOR CP SLOPED SIDE DRN
STEEL 18-INCH 6 TO 1

BUCKOSKI

FIBER OPTIC NOT FIELD VERIFIED

SEE PLAN DETAILS FOR MORE INFORMATION
203+50 - 212+53.53

STA 203+20 LT
RECONSTRUCT BAD FE - 40' WIDE
REMOVE SMALL PIPE CULVERT
1 - CPCS 18-INCH
2 - AEW FOR CP SLOPED SIDE DRN
STEEL 18-INCH 6 TO 1

CURVE 4
PI STA = 206+04.92
R = 11100.00'
SE = NC
DESIGN SPEED = 60 MPH

CLUNE RD

SAWING ASPHALT (TYP.)

PROPOSED MANURE PIPE TO BE BORED BY OTHERS DURING CONSTRUCTION

STA 206+25 RT
RECONSTRUCT BAD FE - 40' WIDE
REMOVE SMALL PIPE CULVERT
1 - CPCS 18-INCH
2 - AEW FOR CP SLOPED SIDE DRN
STEEL 18-INCH 6 TO 1

CLUNE RD R/L

TYPE B2 INTERSECTION

CONCRETE CURB & GUTTER
6-INCH SLOPED 36-INCH TYPE D

CP 11949

CURVE 4

CTH Z R/L

ANR VENT LOCATION NOT FIELD VERIFIED

WETLAND BOUNDARY

STA 209+00 LT
RECONSTRUCT BAD CE - 12' WIDE
REMOVE SMALL PIPE CULVERT
1 - CPCS 18-INCH
2 - AEW FOR CP SLOPED SIDE DRN
STEEL 18-INCH 6 TO 1

HEART OF VALLEY METRO & SEWAGE

SAVE TREE

REMOVING FENCE (SALVAGE EXISTING FENCE TO BE GIVEN TO LANDOWNER)

STA 211+30 LT
RECONSTRUCT BAD FE - 40' WIDE
REMOVE SMALL PIPE CULVERT
1 - CPCS 18-INCH
2 - AEW FOR CP SLOPED SIDE DRN
STEEL 18-INCH 6 TO 1

MATCHLINE STA 212+00

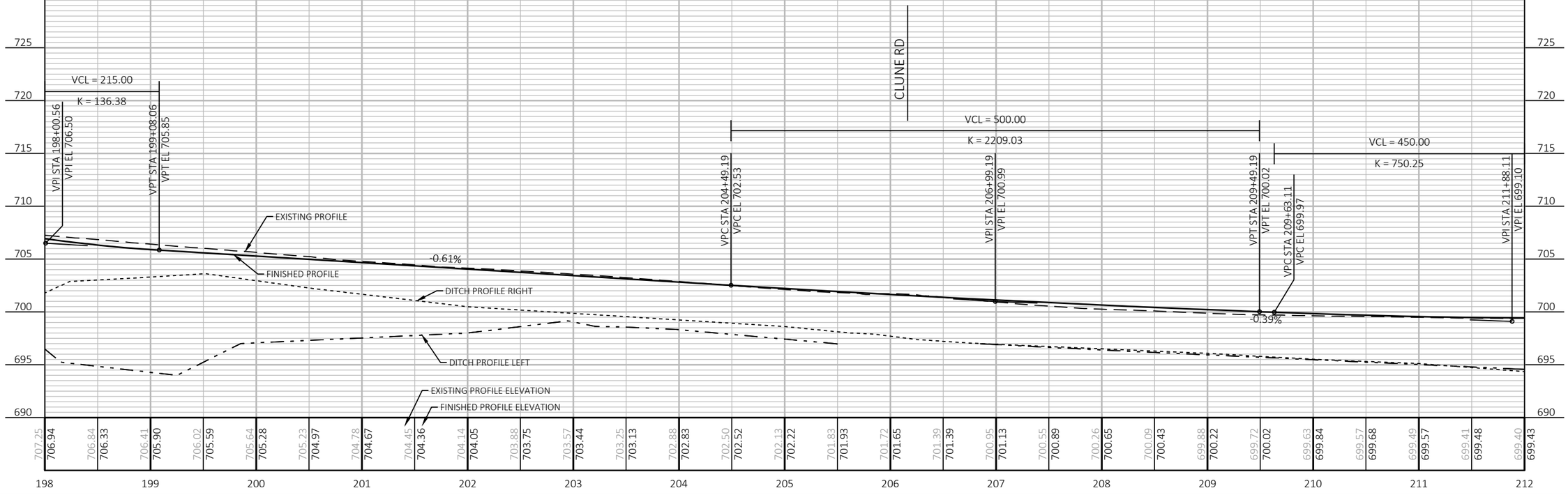
WETLAND BOUNDARY

SLOPE INTERCEPT

CAUTION

STEFFENS

N

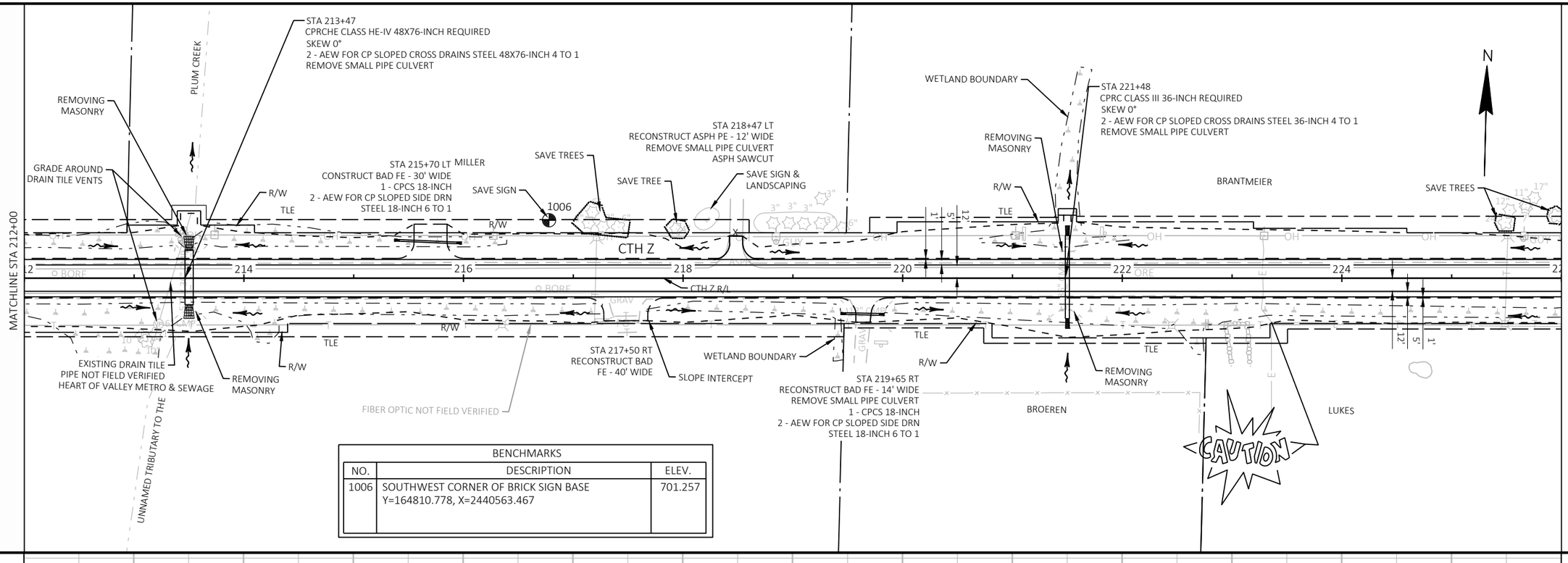


PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	PLAN AND PROFILE: PLAN & PROFILES	SHEET 85	E

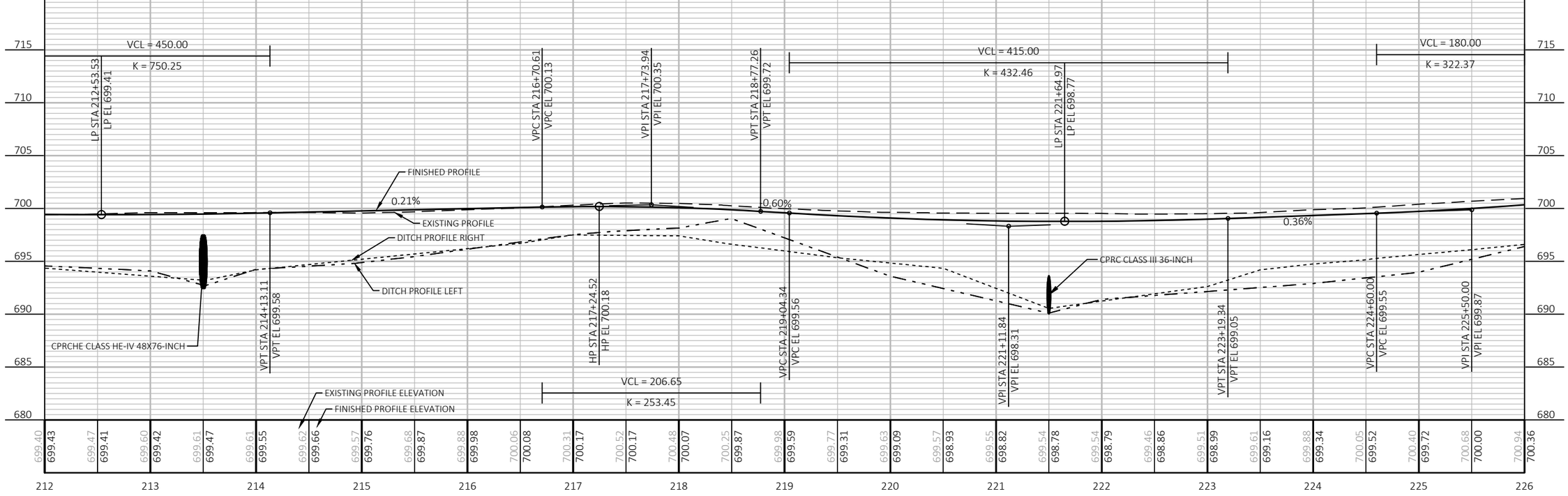
FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\050101-PP.DWG
LAYOUT NAME - 08

PLOT DATE : 7/10/2024 9:23 AM PLOT BY : MAZARIEGOS, JAIRO PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



BENCHMARKS		
NO.	DESCRIPTION	ELEV.
1006	SOUTHWEST CORNER OF BRICK SIGN BASE Y=164810.778, X=2440563.467	701.257



PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	PLAN AND PROFILE: PLAN & PROFILES	SHEET 86	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\050101-PP.DWG
LAYOUT NAME - 09

PLOT DATE : 7/10/2024 9:23 AM PLOT BY : MAZARIEGOS, JAIRO PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

CONTROL POINTS			
NO.	DESCRIPTION	Y	X
CP 3	SPIKE IN GRAVEL AT THE NORTHEAST CORNER OF THE CTH Z AND OUTAGAMIE ROAD INTERSECTION, APPROX. 20 FT EAST OF THE OUTAGAMIE RD CENTERLINE AND APPROX. 30 FT NORTH OF THE CTH Z CENTERLINE	164827.505	2442195.782
CP 4	SPIKE ON THE NORTHERLY SIDE OF CTH Z, 20 FT WEST OF THE CENTERLINE OF DWY TO HOUSE #W146 COUNTY ROAD Z	164796.059	2441541.759

N

STA 226+78 LT
RECONSTRUCT BAD FE - 12' WIDE
REMOVE SMALL PIPE CULVERT
1 - CPCS 12-INCH
2 - AEW FOR CP STEEL 12-INCH

BRANTMEIER

SAVE TREES

STA 227+69 LT
RECONSTRUCT BAD FE - 13' WIDE

SEE PLAN DETAILS FOR MORE INFORMATION
227+50 - 237+23.76

CURVE 5
PI STA = 232+41.69
R = 11100.00'
SE = NC
DESIGN SPEED = 60 MPH

TYPE B2 INTERSECTION

END ASPHALTIC SHOULDER RUMBLE STRIPS
STA. 231+26.55 LT

BRANTMEIER

END ASPHALTIC CENTERLINE RUMBLE STRIPS
STA. 231+11.87

STA 232+94
CPRC CLASS IV 24-INCH REQUIRED
SKEW 0°
2 - AEW FOR CPRC 24-INCH
REMOVE SMALL PIPE CULVERT

AAK HOLDINGS LLC

END RIGHT TURN LANE CONSTRUCTION
STA. 237+23.76 LT

WETLAND BOUNDARY

MATCHLINE STA 226+00

CP 4

CTH Z

CP 3

CTH Z R/L

CURVE 5

SLOPE INTERCEPT

STA 226+35 RT
RECONSTRUCT BAD FE - 26' WIDE
REMOVE SMALL PIPE CULVERT
1 - CPCS 18-INCH
2 - AEW FOR CP SLOPED SIDE DRN STEEL 18-INCH 6 TO 1

STA 227+70 RT
RECONSTRUCT BAD FE - 14' WIDE

GRUBBING (TYP.)

FIBER OPTIC NOT FIELD VERIFIED

ELECTRIC NOT FIELD VERIFIED

WURST

CONCRETE CURB & GUTTER
6-INCH SLOPED 36-INCH TYPE D

STA 232+89
CPRC CLASS IV 24-INCH REQUIRED
SKEW 0°
2 - AEW FOR CPRC 24-INCH
REMOVE SMALL PIPE CULVERT

SAWING ASPHALT (TYP.)

WETLAND BOUNDARY

SCHMITT

STA 233+34
CPRCHE CLASS HE-IV 34x53-INCH REQUIRED
SKEW 0°
2 - AEW FOR CPRCHE 34X53-INCH
REMOVE SMALL PIPE CULVERT

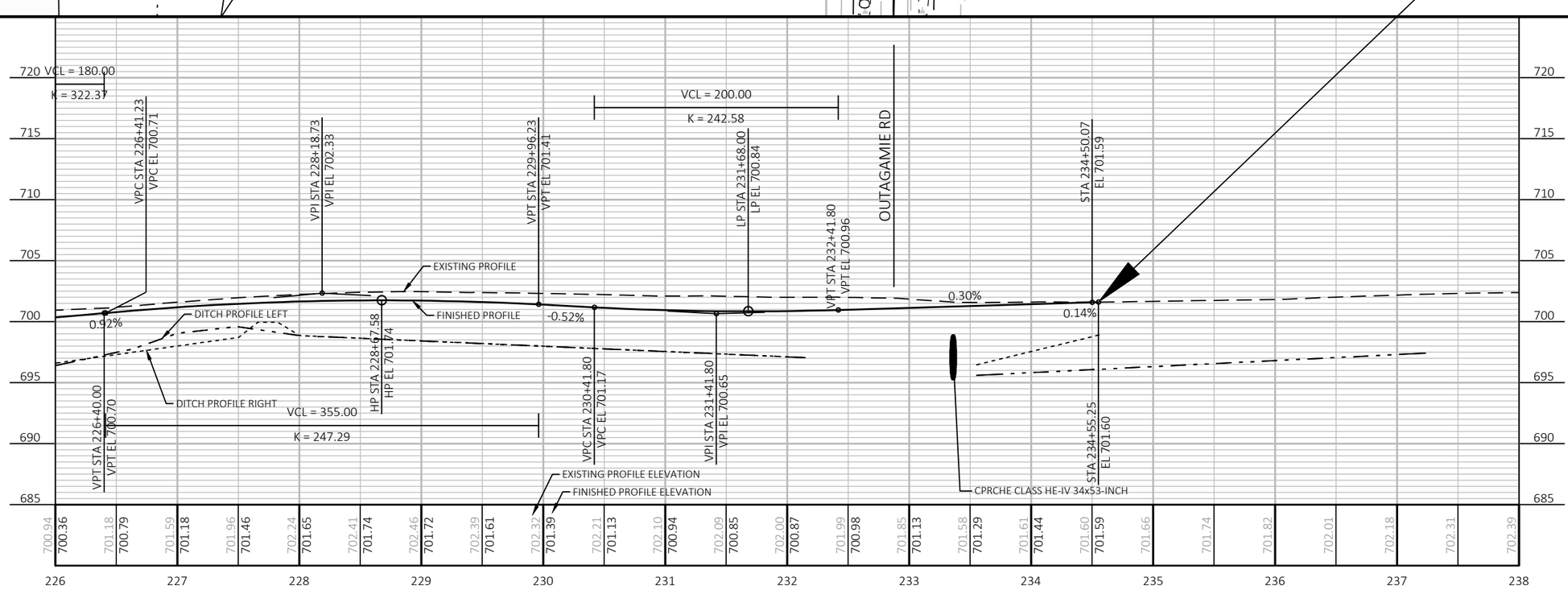
OUTAGAMIE RD R/L

LUKES

CAUTION

OUTAGAMIE RD

END PROJECT
STA. 234+55.25
Y = 164,796.73
X = 2,442,341.68

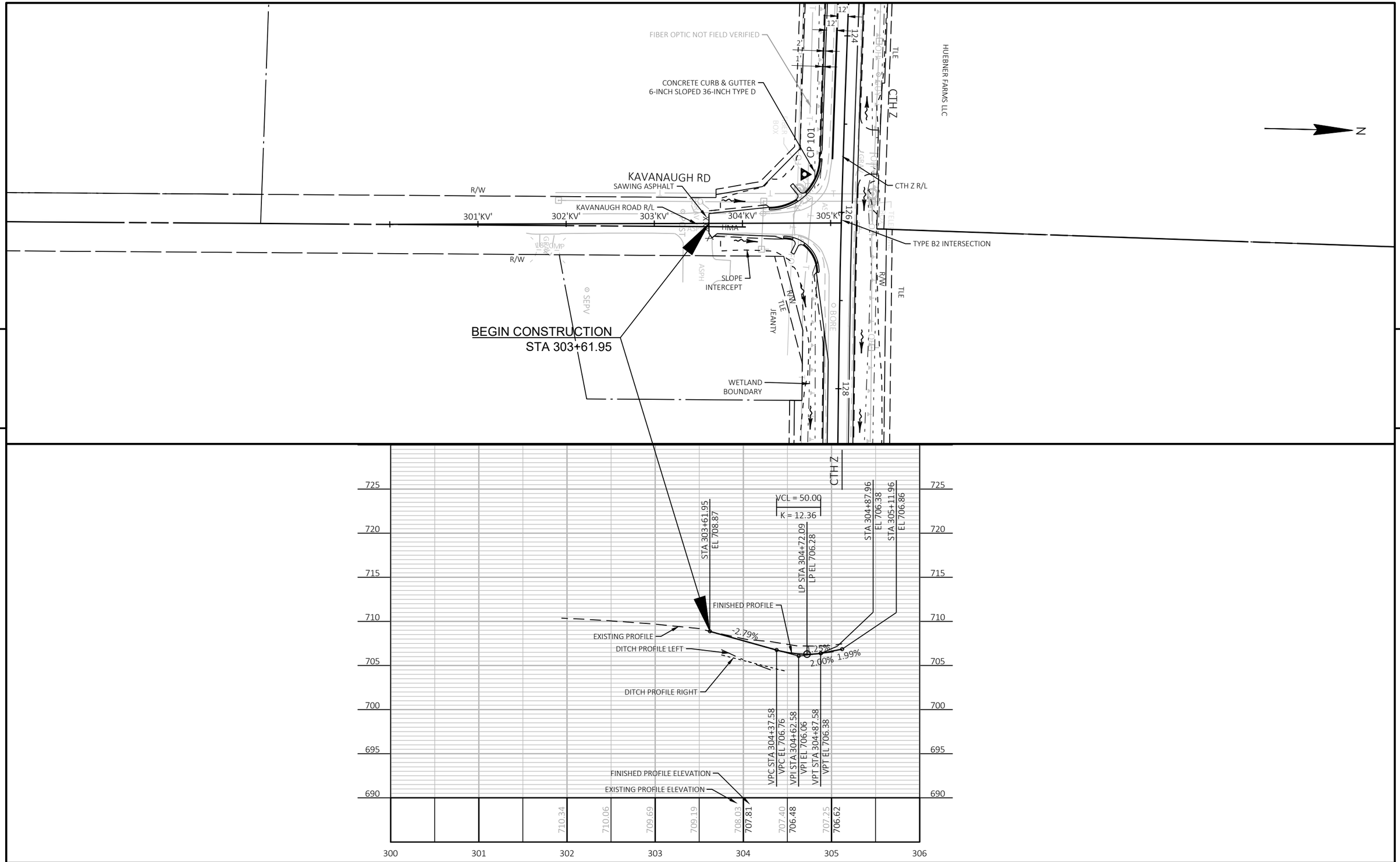


PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	PLAN AND PROFILE: PLAN & PROFILES	SHEET 87 E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\050101-PP.DWG
LAYOUT NAME - 10

PLOT DATE : 7/10/2024 2:42 PM PLOT BY : SIEBERT, LUKE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	PLAN AND PROFILE: KAVANAUGH RD	SHEET 88 E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\050101-PP.DWG
LAYOUT NAME - 11

PLOT DATE : 7/10/2024 2:48 PM PLOT BY : SIEBERT, LUKE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

CURVE 6
PI STA = 405+35.55'GG'
R = 3746.16'
SE = 1.2%
DESIGN SPEED = 60 MPH

STA 405+00'GG' LT
RECONSTRUCT BAD FE - 40' WIDE
REMOVE SMALL PIPE CULVERT
1 - CPCS 18-INCH
2 - AEW FOR CP SLOPED SIDE DRN
STEEL 18-INCH 6 TO 1

STA 173+38
CPRCHE CLASS IV 24X38-INCH REQUIRED
SKEW 0°
2 - AEW FOR CPRCHE 24X38-INCH
REMOVE SMALL PIPE CULVERT

CONCRETE CURB & GUTTER
6-INCH SLOPED 36-INCH TYPE D

FIBER OPTIC NOT FIELD VERIFIED

SAWING ASPHALT

CTH GG R/L

BEGIN CONSTRUCTION
STA 403+85.43

SAWING ASPHALT

SLOPE INTERCEPT

TYPE B1 INTERSECTION MODIFIED

REMOVE ACCESS

STA 404+58'GG' RT
PROPOSED BAD PE - 14' WIDE
1 - CPCS 18-INCH
2 - AEW FOR CP SLOPED SIDE
DRN STEEL 18-INCH 6 TO 1

WETLAND BOUNDARY

END CONSTRUCTION
STA 408+34.72

SCHUESSLER
SUNNYSIDE FARM INC
VANZEELAND
SCHUESSLER
HUEBNER

CTH Z
CTH GG
CURVE 6
HMA
TLE
R/W
SHED
WELL
1003
172
174
176

404'GG' 405'GG' 406'GG' 407'GG' 408'GG' 409'GG'

5 5

STA 403+85.43
EL 698.14
VPC STA 403+95.63
VPC EL 698.05
VPI STA 404+89.17
VPI EL 697.20
STA 405+89.87
EL 694.20
VPT STA 405+82.72
VPT EL 694.41
STA 406+02.56
EL 694.33
CTH Z
STA 406+26.72
EL 694.28
VPC STA 406+47.54
VPC EL 694.25
STA 406+39.36
EL 694.15
EXISTING PROFILE
VPI STA 407+25.22
VPI EL 695.21
VPI STA 407+25.22
VPI EL 695.21
VPT STA 408+02.90
VPT EL 694.45
STA 408+34.72
EL 694.14

-0.91% -2.98% -1.78% -2.18% 1.00% -1.00% 1.24% -0.98%

DITCH PROFILE LEFT
DITCH PROFILE RIGHT
FINISHED PROFILE

VCL = 155.36
K = 70.00

VCL = 187.09
K = 90.00

STA 406+14.64
EL 694.54

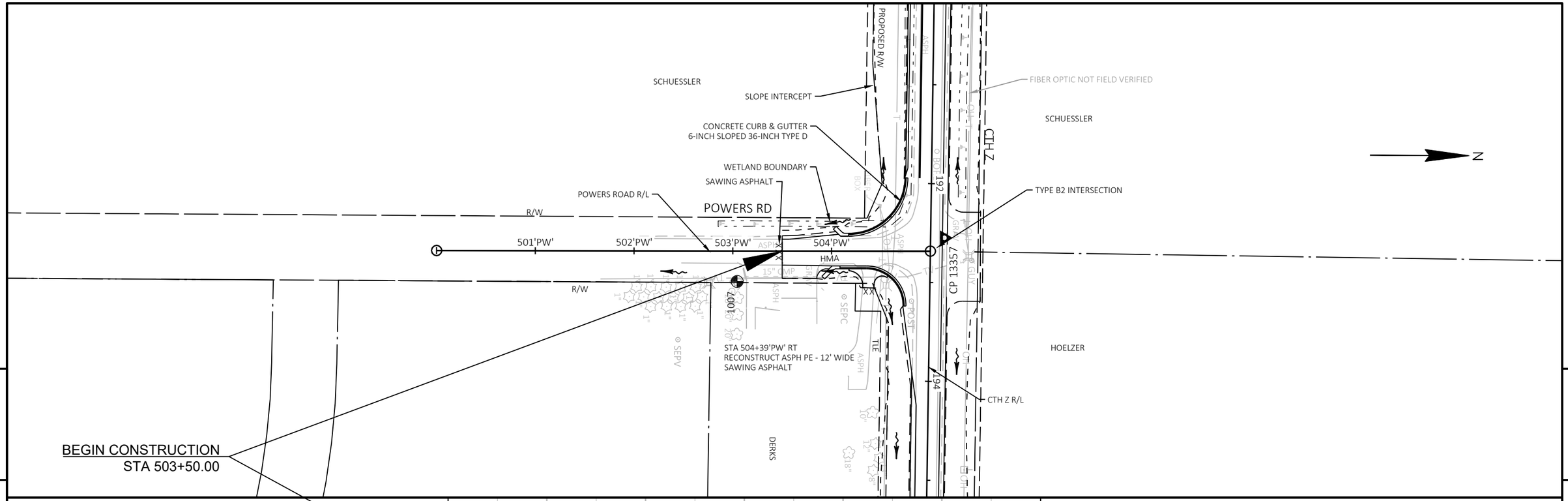
EXISTING PROFILE ELEVATION
FINISHED PROFILE ELEVATION

698.46	698.02	698.01	697.57	697.40	697.14	696.50	696.59	695.33	696.35	694.30	696.05	694.28	695.48	694.71	694.98	694.77	694.52	694.48	693.99	693.53

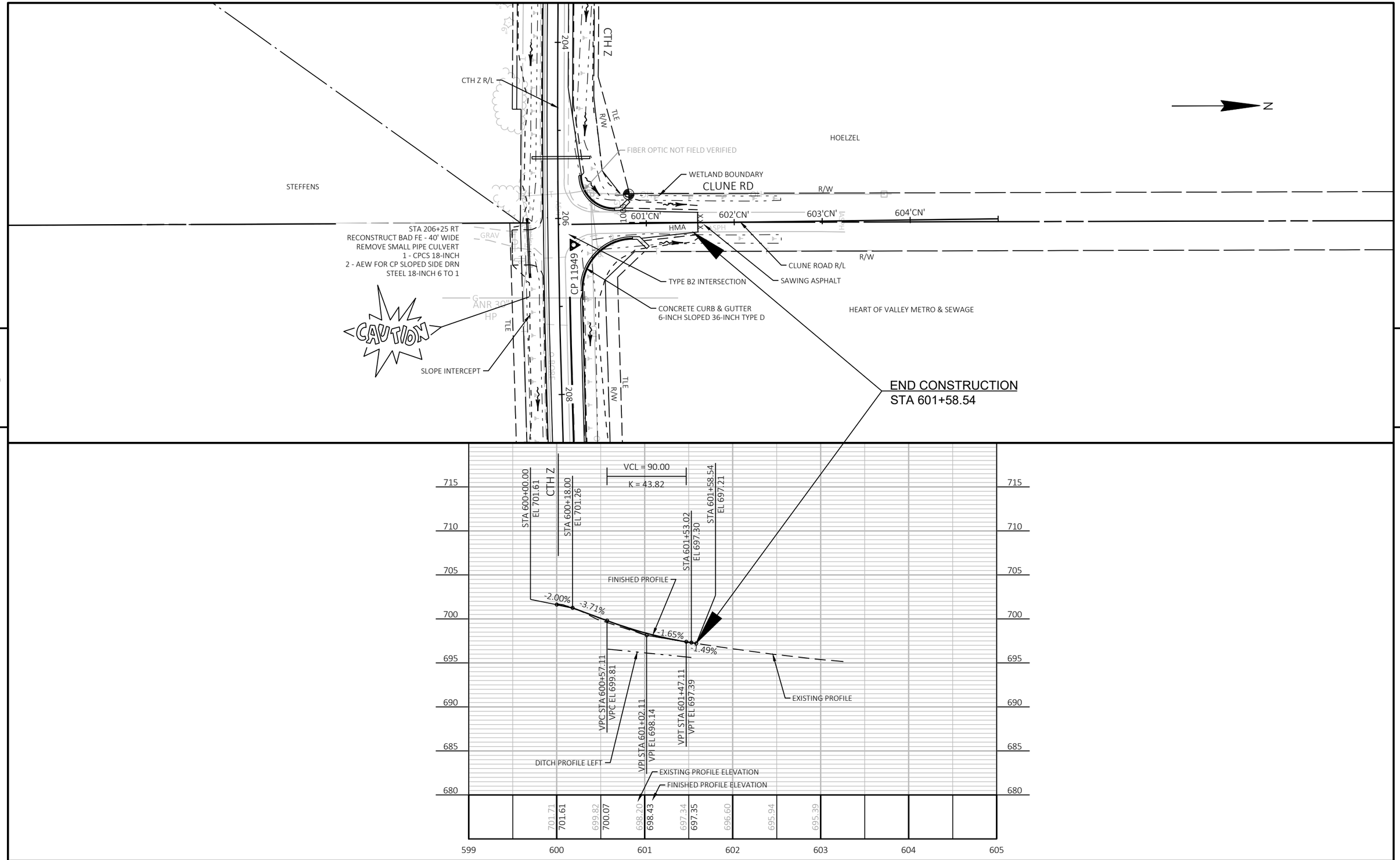
715 710 705 700 695 690 685 680

399 400 401 402 403 404 405 406 407 408 409 410 411 412 413

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	PLAN AND PROFILE: CTH GG	SHEET 89	E



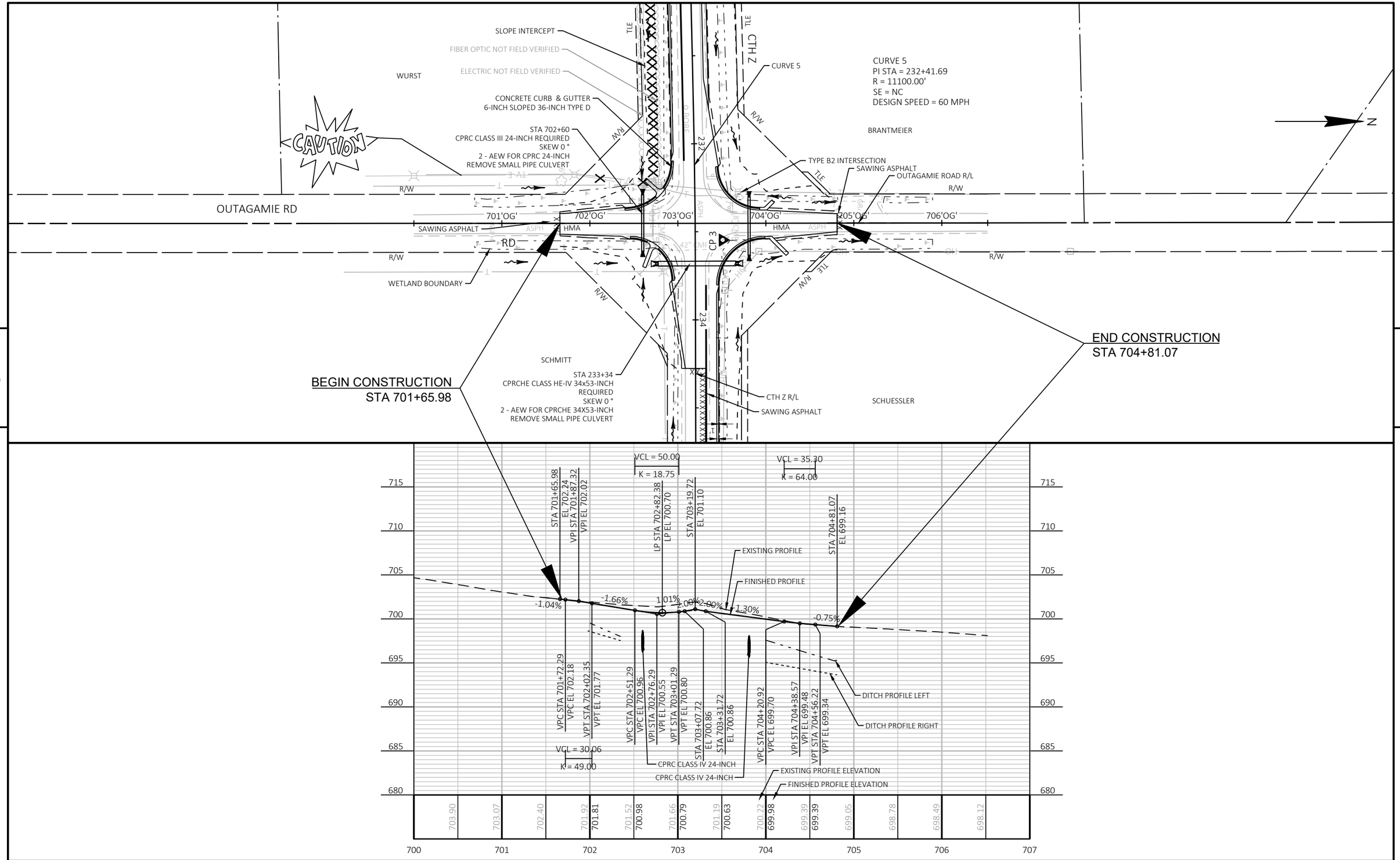
PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	PLAN AND PROFILE: POWERS RD	SHEET 90	E



PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	PLAN AND PROFILE: CLUNE RD	SHEET 91	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\050101-PP.DWG
LAYOUT NAME - 14

PLOT DATE : 7/10/2024 2:49 PM PLOT BY : SIEBERT, LUKE PLOT NAME : PLOT SCALE : 1 IN:100 FT



PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	PLAN AND PROFILE: OUTAGAMIE RD	SHEET 92	E

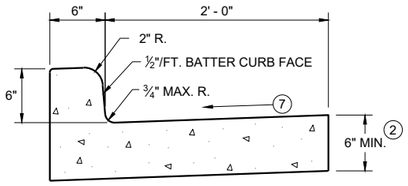
FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\050101-PP.DWG
LAYOUT NAME - 15

PLOT DATE : 7/10/2024 2:50 PM PLOT BY : SIEBERT, LUKE PLOT NAME : PLOT SCALE : 1 IN:100 FT

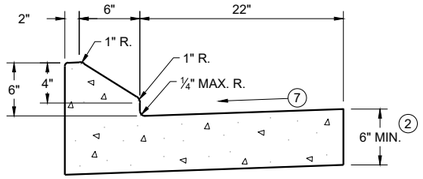
Standard Detail Drawing List

08D01-23A	CONCRETE CURB & GUTTER
08D01-23B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D04-07	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D15-05A	EDGEDRAIN OUTLET AND OUTFALL MARKERS
08D21-01	DRIVEWAYS WITHOUT CURB & GUTTER
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E14-01	TRACKING PAD
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-08	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F07-05	STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE DRAINS
08F08-02	STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED CROSS DRAINS
09A01-14A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
13A10-03A	SHOULDER RUMBLE STRIPS - ASPHALT
13A10-03G	SHOULDER AND EDGE LINE RUMBLE STRIPS - CROSSINGS, INTERSECTIONS, BRIDGES, DRIVEWAYS
13A11-04A	CENTERLINE RUMBLE STRIPS - ASPHALT
13A11-04D	CENTERLINE RUMBLE STRIPS - INTERSECTIONS, DRIVEWAYS, BRIDGES, RAILROADS
13C19-03	HMA LONGITUDINAL JOINTS
14B42-07A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B53-02A	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-02G	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-02H	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-02I	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-09C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C02-09H	MODIFIED ROUTE ASSEMBLY FOR DETOUR SIGNING
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C08-23D	PAVEMENT MARKING (TURN LANES)
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C19-09A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C33-05	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-06A	PAVEMENT MARKING (INTERSECTIONS)
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D29-06	TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD

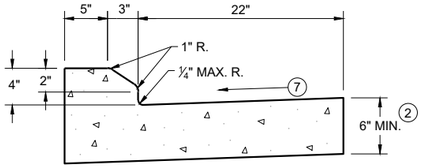
6



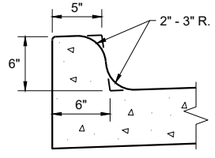
TYPES A (1) & D



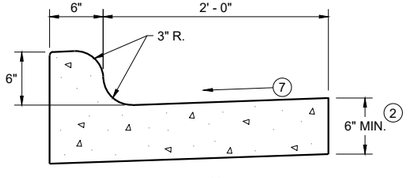
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

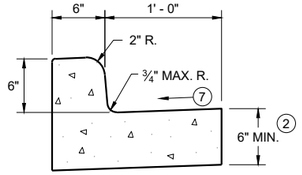


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



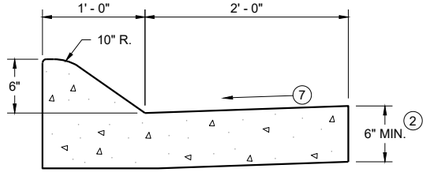
TYPES K (1) & L

CONCRETE CURB AND GUTTER 30"

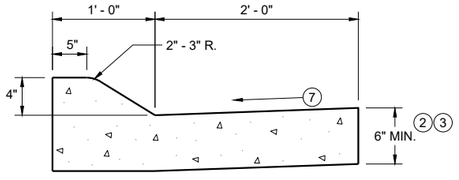


TYPES A (1) & D

CONCRETE CURB AND GUTTER 18"

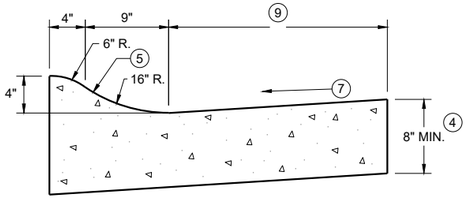


6" SLOPED CURB TYPES A (1) & D



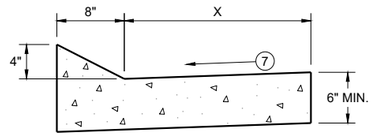
4" SLOPED CURB TYPES A (1) & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R (1) & T

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

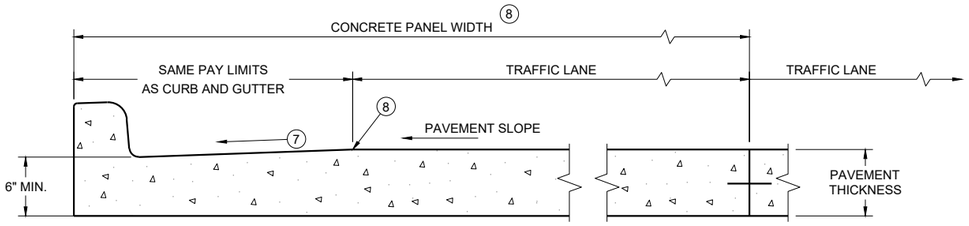


TYPES TBT & TBTT (1)

CONCRETE CURB AND GUTTER

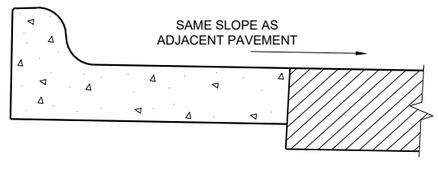
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

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



PARTIAL SECTION OF PAVEMENT * WITH INTEGRAL CURB AND GUTTER

* BIKE LANE IS NOT SHOWN



REVERSE SLOPE GUTTER (6)
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

DETAILS OF CONSTRUCTION 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 AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

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 GUTTERS 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) UNLESS OTHERWISE NOTED, FOR STAKING PURPOSES 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.

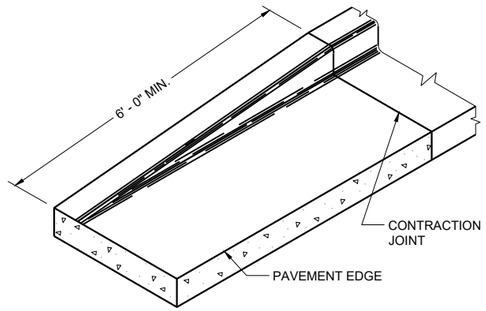
(9) CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE "R" AND "T" = 17 INCHES
CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE "R" AND "T" = 23 INCHES

CONCRETE CURB AND GUTTER

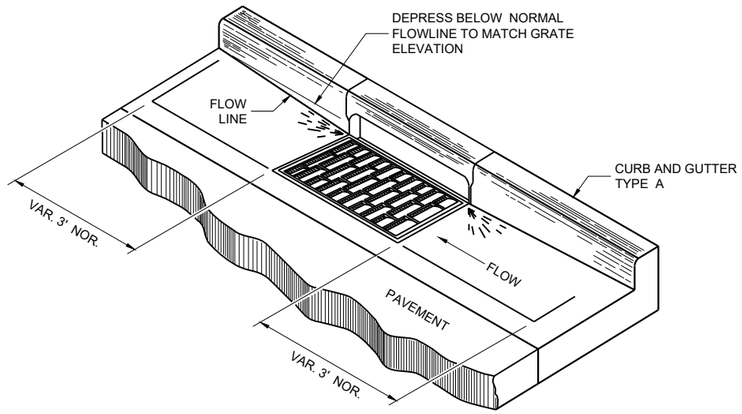
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 08D01-23a

6



END SECTION CURB AND GUTTER



DETAIL OF CURB AND GUTTER AT INLETS

(TYPICAL H INLET COVER SHOWN)

GENERAL NOTES

DETAILS OF CONSTRUCTION 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.

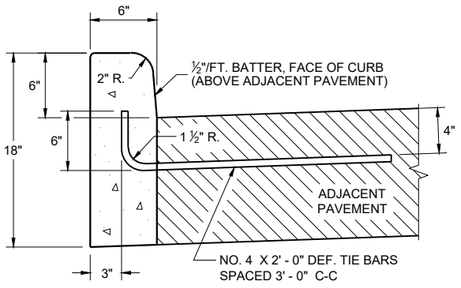
UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

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

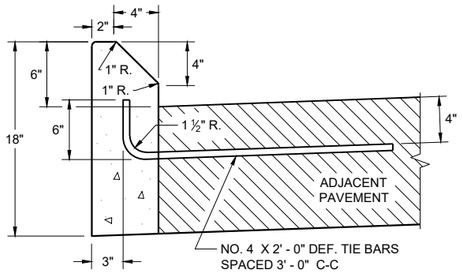
(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(10) REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.

(11) PLACE 1" THICK EXPANSION JOINT MATERIAL BETWEEN VERTICAL FACE CURB TYPES EXTENDING FROM THE TOP OF CURB TO 1 INCH BELOW THE ADJOINING CONCRETE SURFACE. RIGID CONCRETE STRUCTURES INCLUDE RAISED CONCRETE MEDIANS, CONCRETE SAFETY ISLANDS, SPLITTER ISLANDS, OR LOCATIONS IDENTIFIED ON THE PLANS.

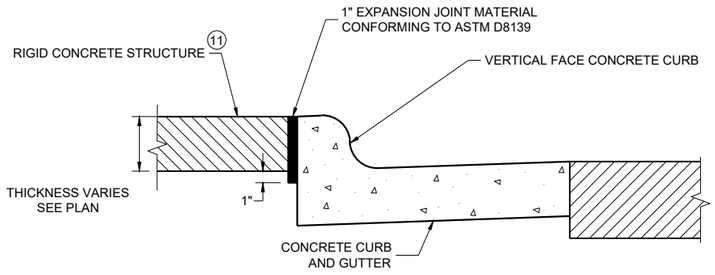


TYPES A (1) & D

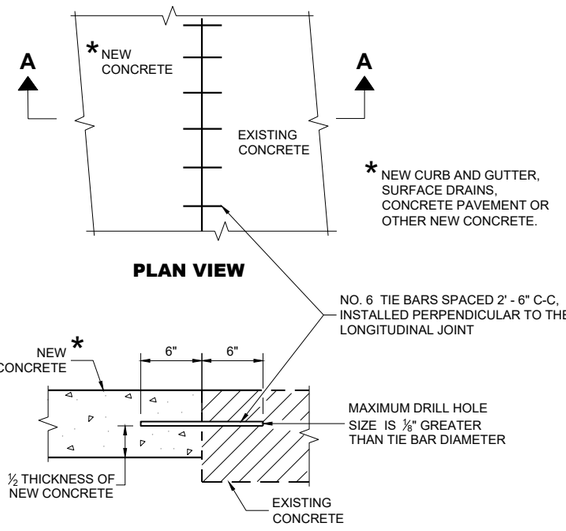


TYPES G (1) & J

CONCRETE CURB



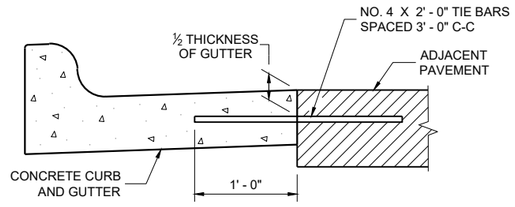
EXPANSION JOINT DETAIL FOR VERTICAL CURB ABUTTING A RIGID STRUCTURE (11)



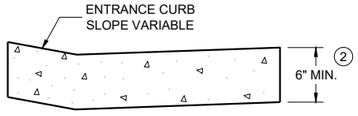
PLAN VIEW

SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT



TYPICAL TIE BAR LOCATION (1)



DRIVEWAY ENTRANCE CURB (10)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Rodnery Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

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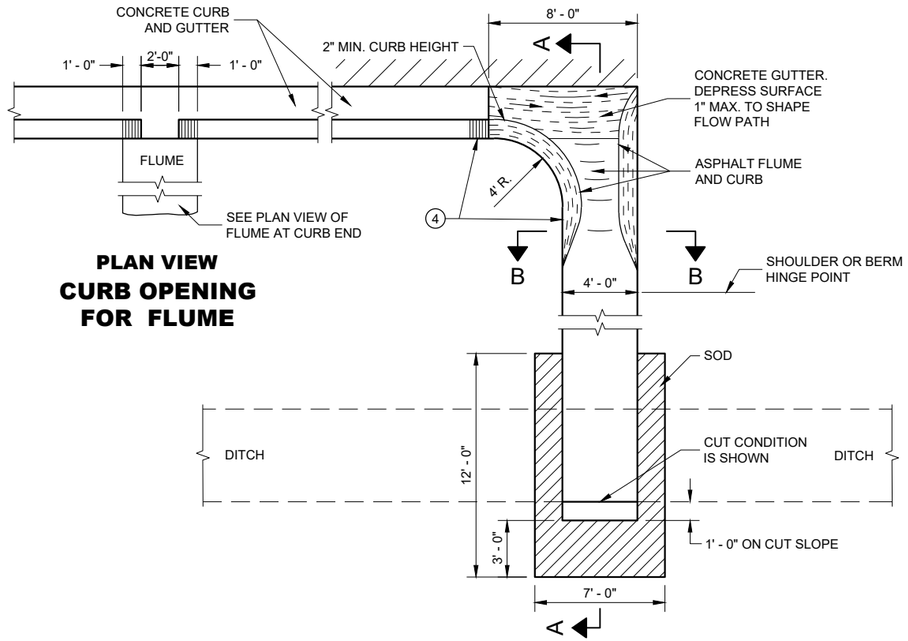
SDD 08D01-23b

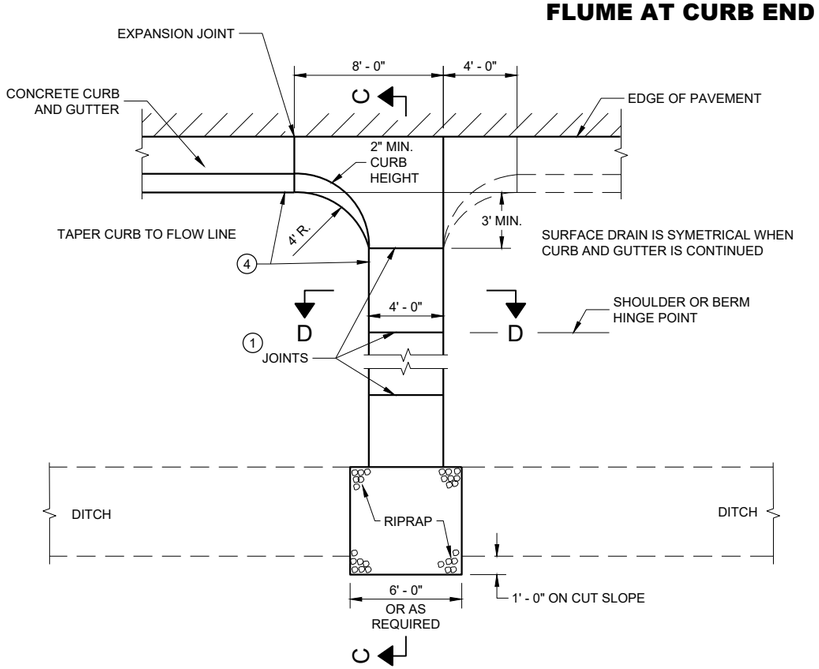
NOTE: TAPER CURB ENDS TO GUTTER IN 1' - 0"

ASPHALTIC FLUME



PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



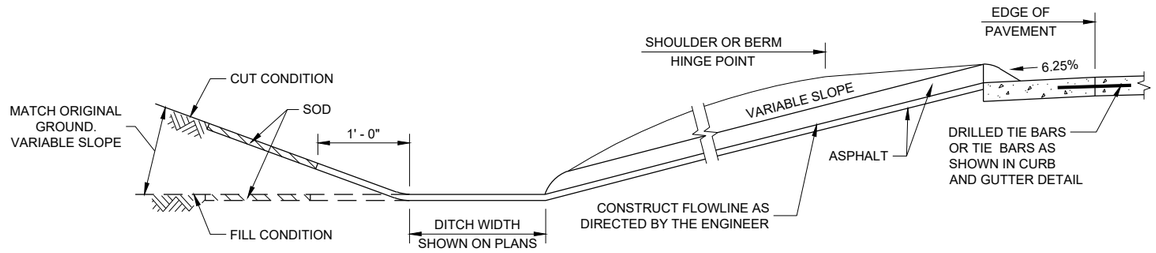
PLAN VIEW
CONCRETE SURFACE DRAIN

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.

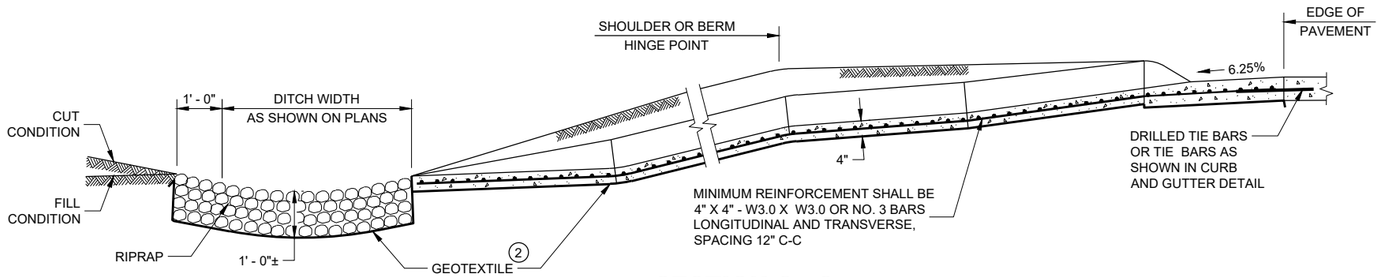
4" X 4" - W3.0 X W3.0 CONCRETE REINFORCEMENT SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

1. JOINTS SHALL BE ⅛" TO ¼" WIDE BY 1½" DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.
2. GEOTEXTILE 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.
4. ANGLE OF FLUME IN RELATION TO BACK OF CURB TO BE CONSTRUCTED PER THE PLAN DETAILS OR AS DIRECTED BY THE ENGINEER. ANGLE OF FLUME MAY BE OTHER THAN 90 DEGREES AS SHOWN.

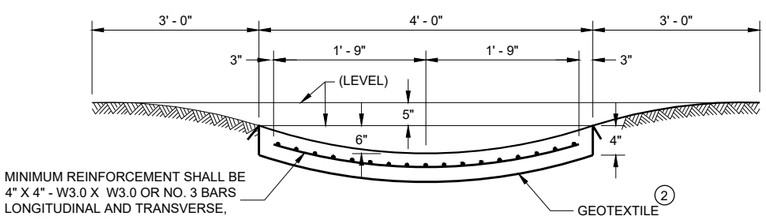


SECTION A - A

SECTION B - B



SECTION C - C



SECTION D - D

CONCRETE SURFACE DRAINS AND ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

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SDD 08D04 - 07

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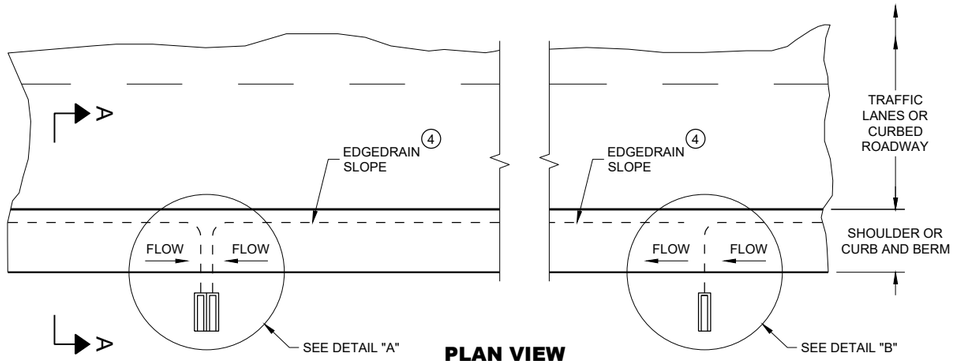
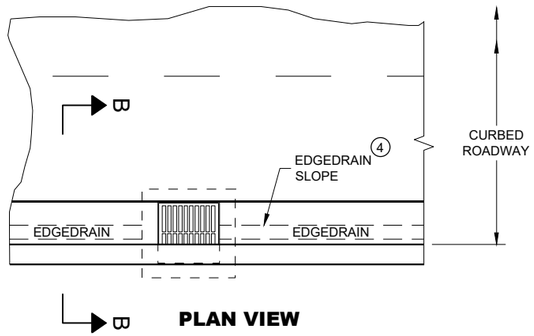
SDD 08D04 - 07



PLAN VIEW

ROADWAY WITH SHOULDERS OR CURBS
(EDGEDRAIN CONNECTS TO ROADSIDE) (2)



PLAN VIEW

ROADWAY WITH CURBS
(EDGEDRAIN CONNECTS INTO INLET STRUCTURE)

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) UNPERFORATED PIPE UNDERDRAIN AND FITTINGS FURNISHED FOR OUTFALL PIPE SHALL MEET THE REQUIREMENTS OF ONE OF THE FOLLOWING SPECIFICATIONS:

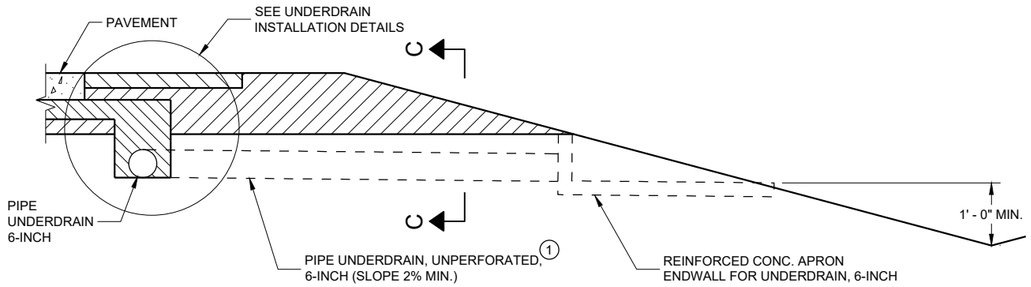
POLYVINYL CHLORIDE (PVC) PLASTIC DRAIN, WASTE, AND VENT PIPE AND FITTINGS, ASTM D 2665, SCHEDULE 40 PVC.

TYPE PSM POLYVINYL CHLORIDE (PVC) SEWER PIPE AND FITTINGS, ASTM D 3034, SDR 23.5 PVC SEWER PIPE.

(2) MAXIMUM SPACING OF EDGEDRAIN OUTLETS SHALL BE 250 FEET UNLESS OTHERWISE SPECIFIED IN THE CONTRACT OR DIRECTED BY THE ENGINEER.

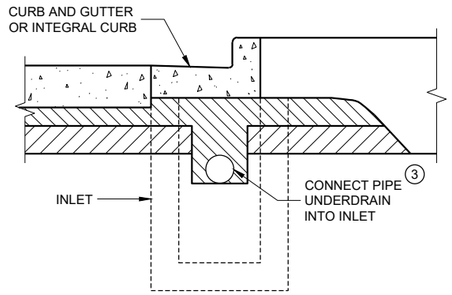
(3) EDGEDRAIN SHALL BE CONNECTED TO INLETS REGARDLESS OF FLOW DIRECTION FOR DRAINAGE AND MAINTENANCE ACCESS.

(4) EDGEDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF ROADWAY.



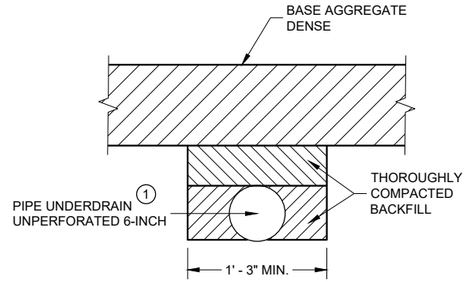
SECTION A - A

RURAL CROSS SECTION



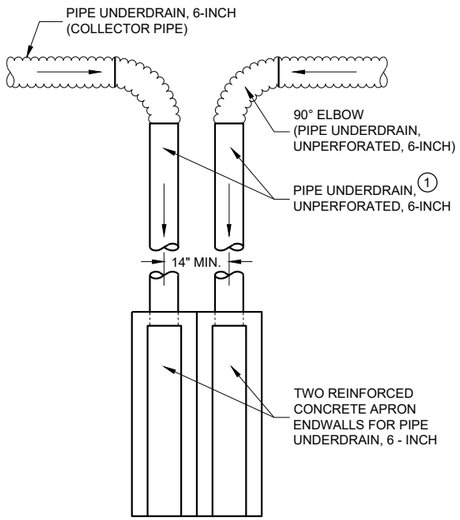
SECTION B - B

URBAN CROSS SECTION

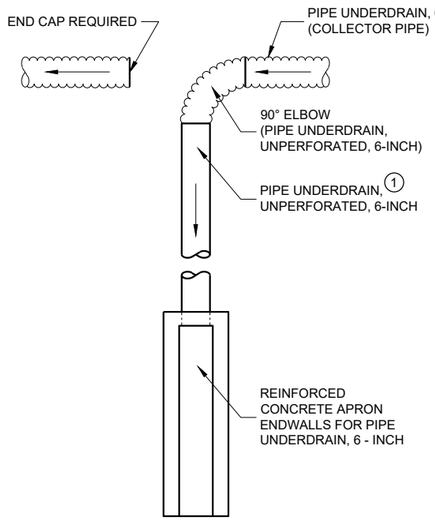


SECTION C - C

TRENCH FOR OUTFALL PIPE

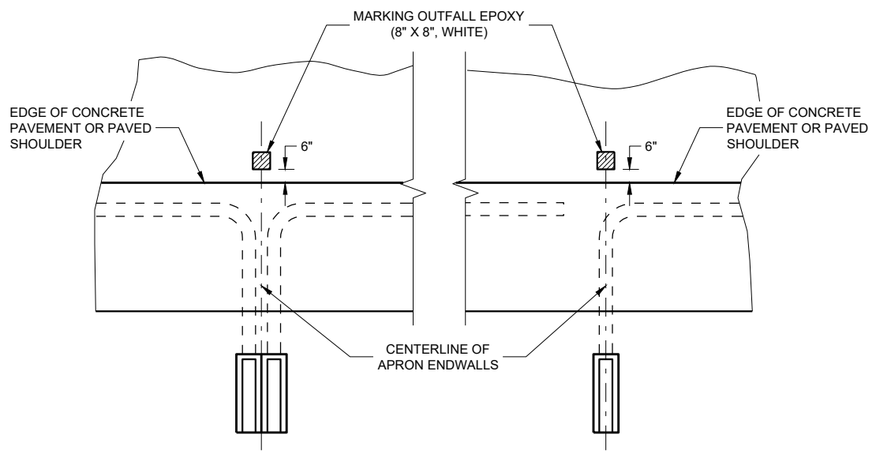


DETAIL "A"
TO BE USED AT LOW POINT LOCATIONS



DETAIL "B"
TO BE USED AT INTERMEDIATE LOCATIONS

TYPICAL DRAIN OUT DETAILS



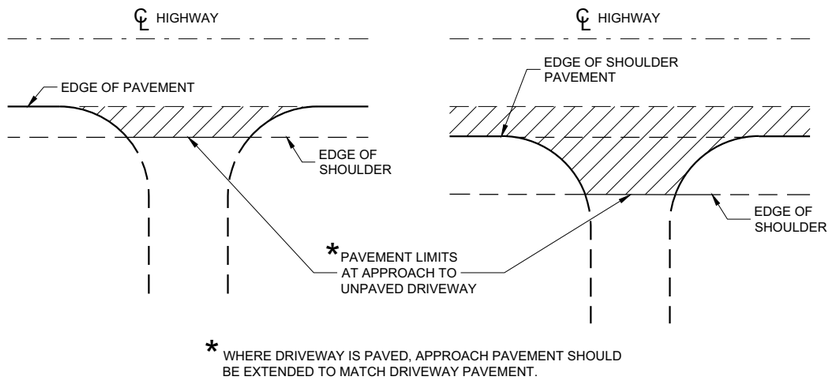
LOW POINT LOCATIONS — INTERMEDIATE LOCATIONS

PAVEMENT MARKINGS FOR OUTFALL MARKERS

EDGEDRAIN OUTLET AND OUTFALL MARKERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

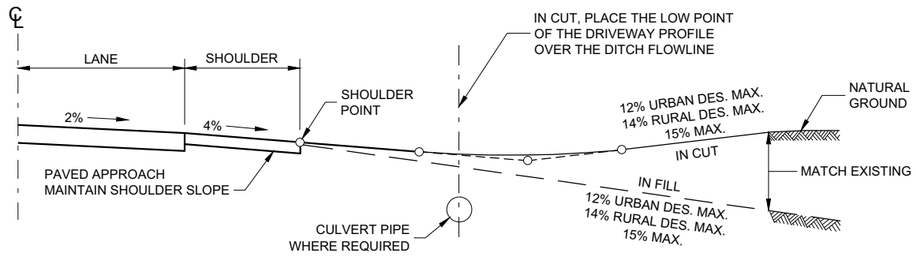
6
SDD08D15 - 05a



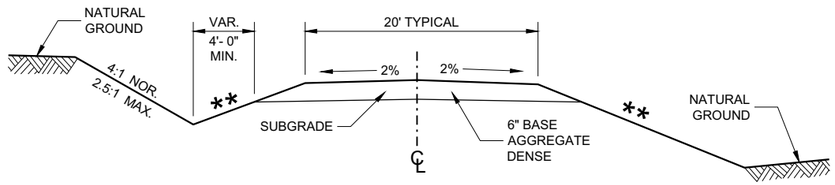
PLAN VIEW
(UNPAVED SHOULDER ON HIGHWAY)

PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

RURAL DRIVEWAY INTERSECTION DETAIL
(NO CURB AND GUTTER OR SIDEWALK)



TYPICAL DRIVEWAY PROFILES

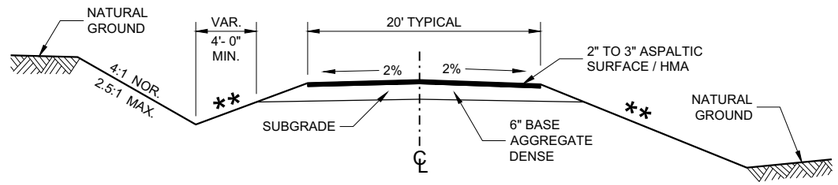


IN CUT **IN FILL**

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE AGGREGATE SURFACE

** SLOPE CAN VARY WITH SPEED. SEE 11-45-30.6.2

POSTED SPEED MPH	MAX. SLOPE
<35	4:1
≥ 35 TO < 60	6:1
≥60	10:1



IN CUT **IN FILL**

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE ASPHALTIC SURFACE

6

SDD 08D21 - 01

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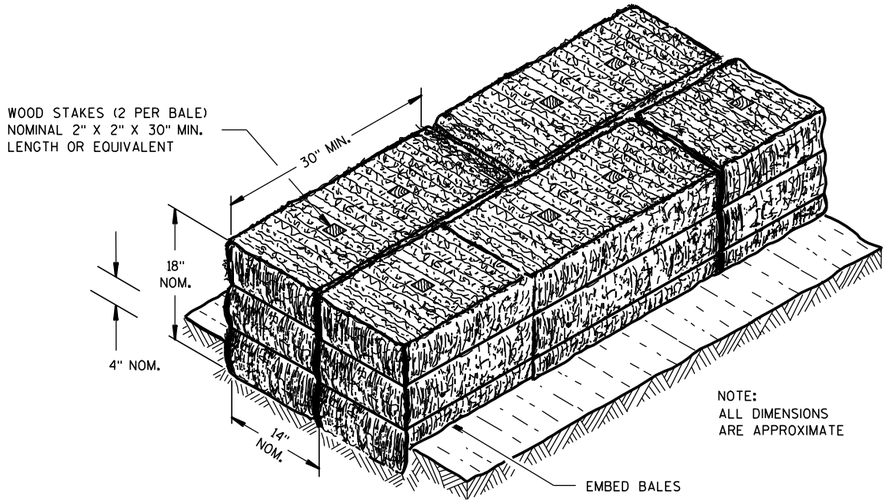
SDD 08D21 - 01

DRIVEWAYS WITHOUT CURB AND GUTTER

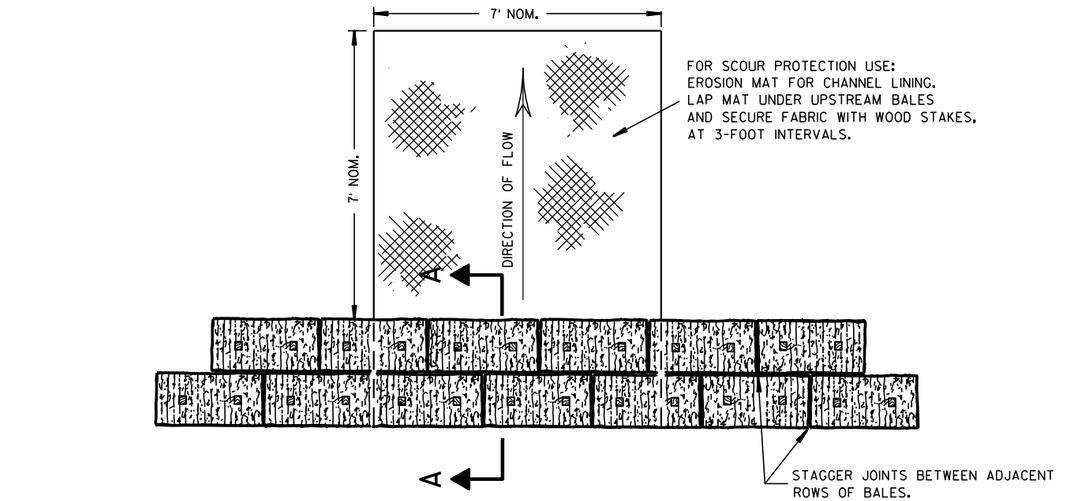
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2017 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE UNIT SUPERVISOR

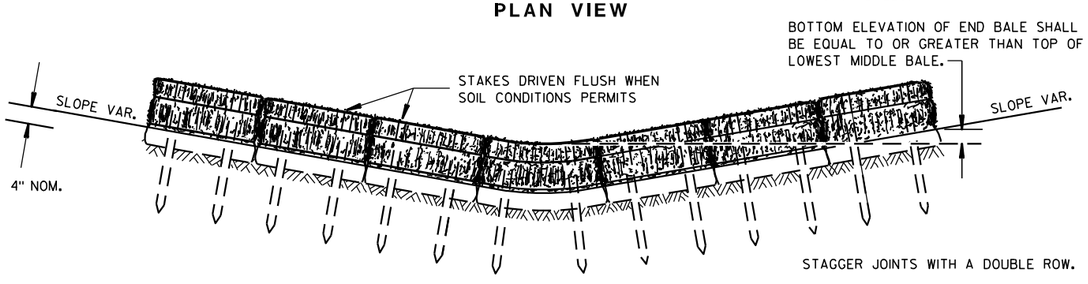
FHWA



SECTION A-A



PLAN VIEW



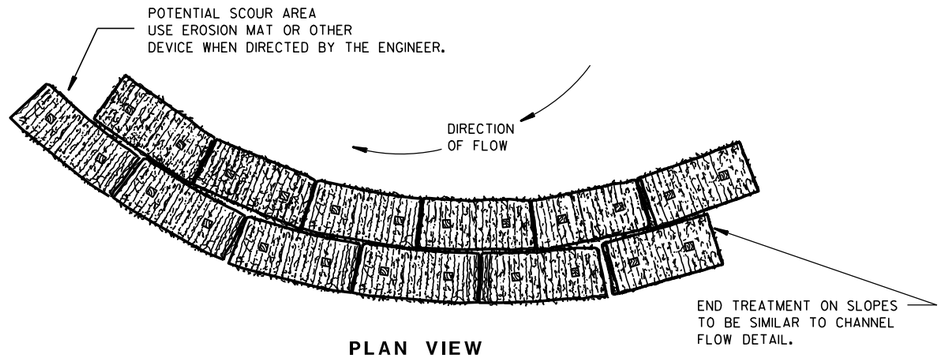
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

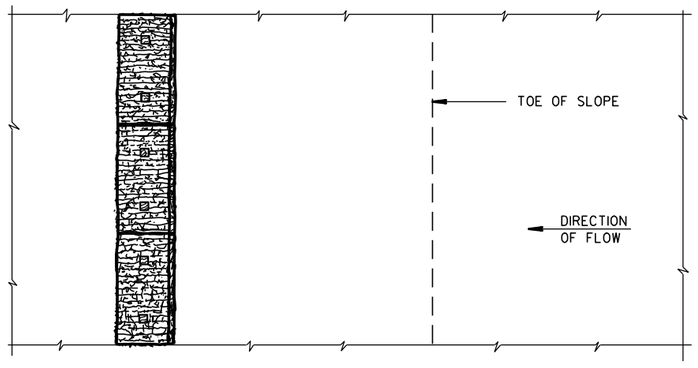
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(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.

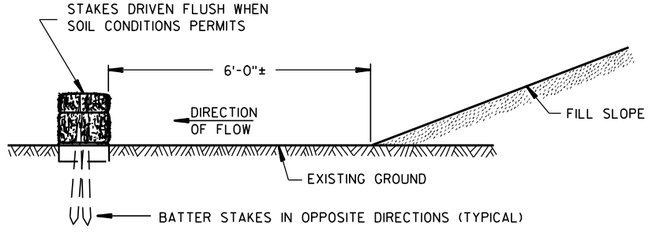


PLAN VIEW

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

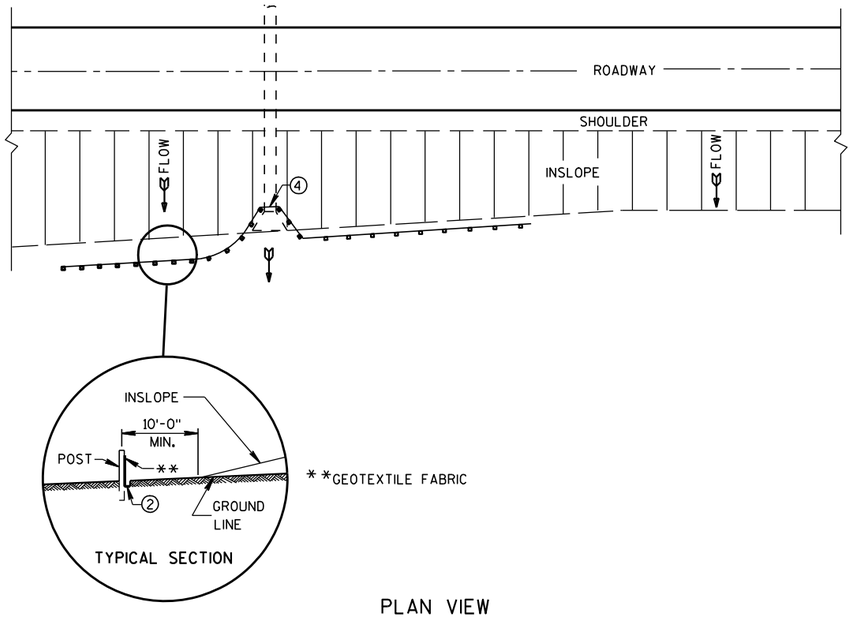
6/04/02 — DATE

/S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

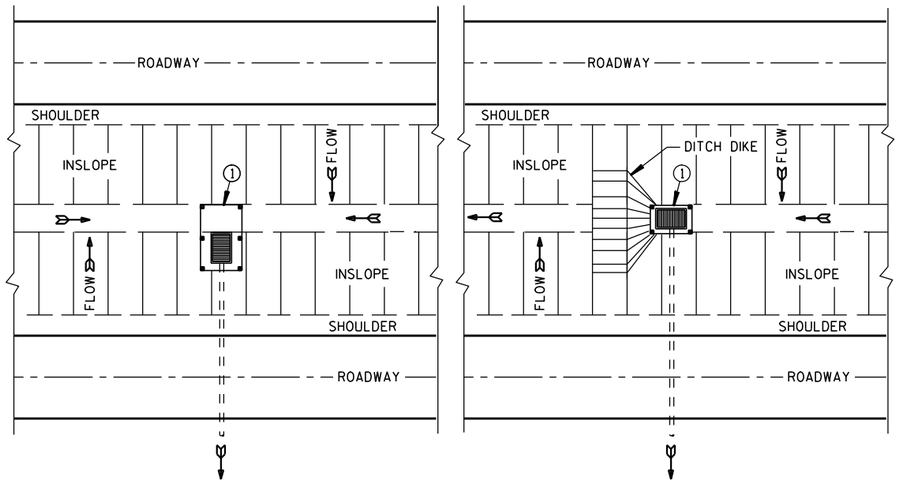
6

S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



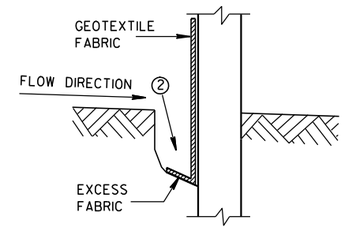
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

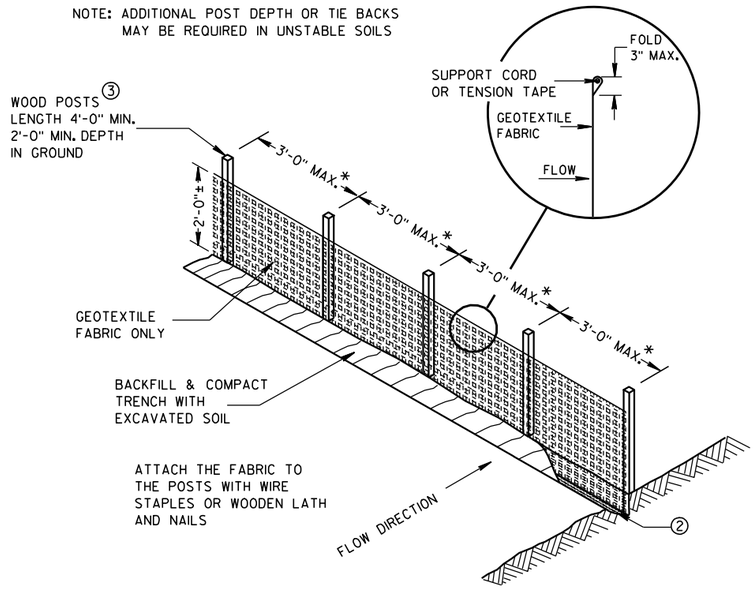
GENERAL NOTES

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

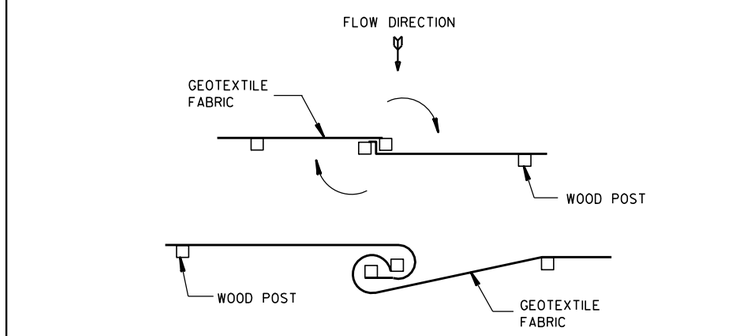
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL 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.



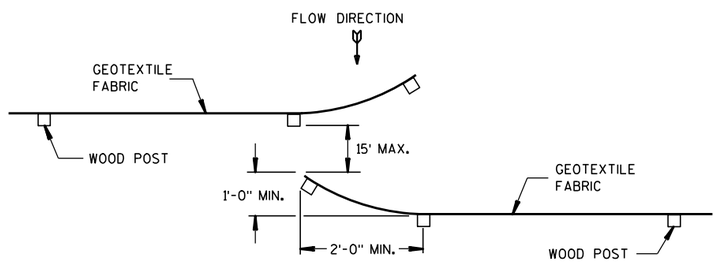
TRENCH DETAIL



SILT FENCE

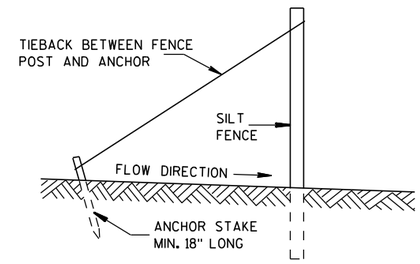


TWIST METHOD



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

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S.D.D. 8 E 9-6

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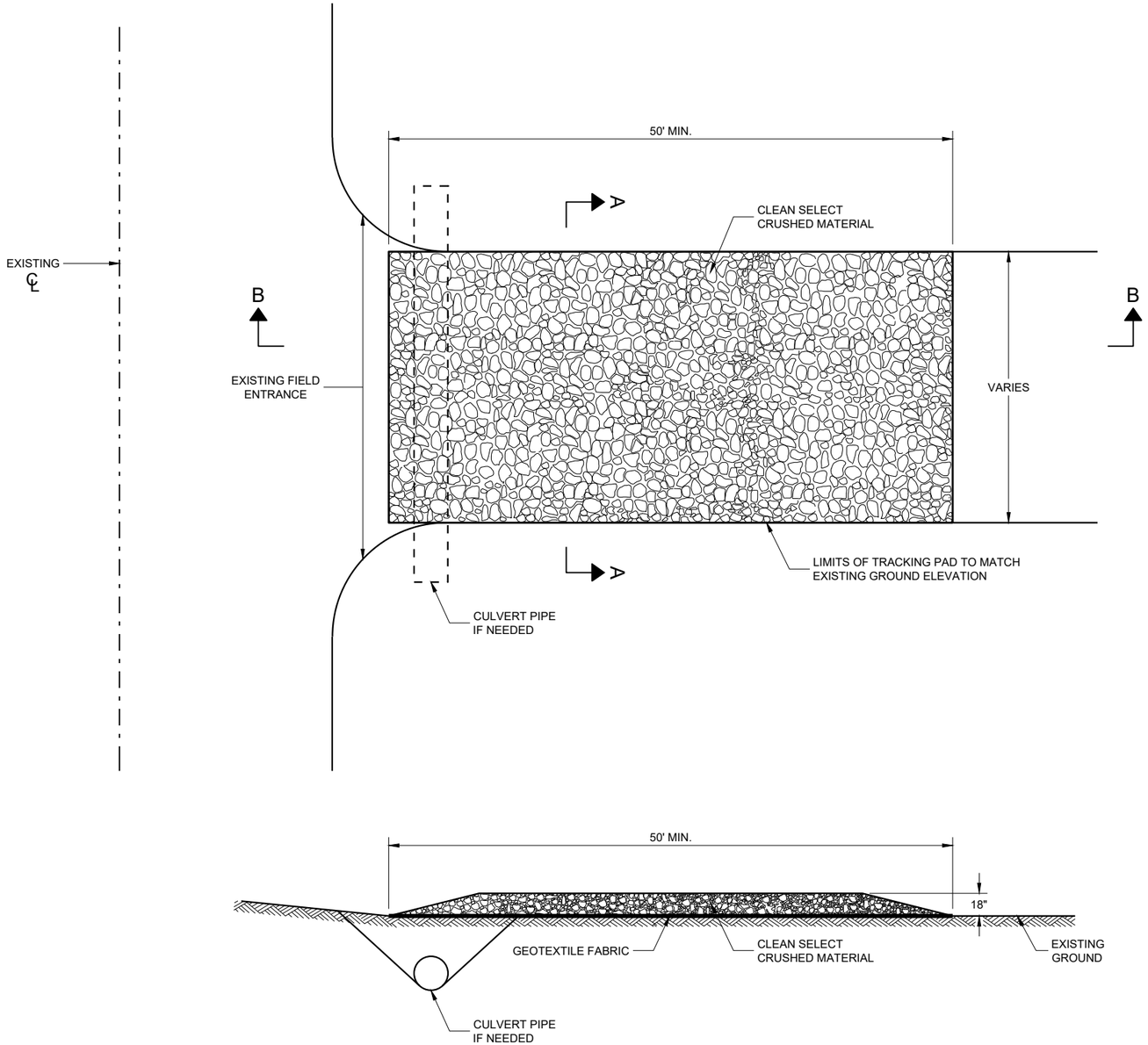
S.D.D. 8 E 9-6



SECTION B - B

GENERAL NOTES

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

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

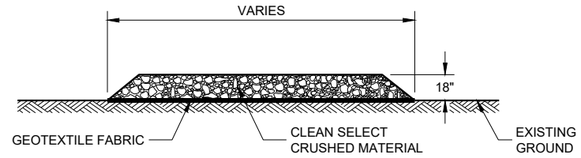
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A - A

TRACKING PAD

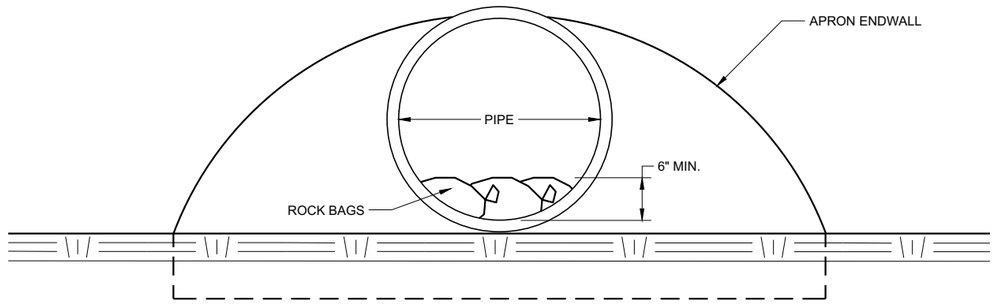
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/24/2011
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVE ENGINEER

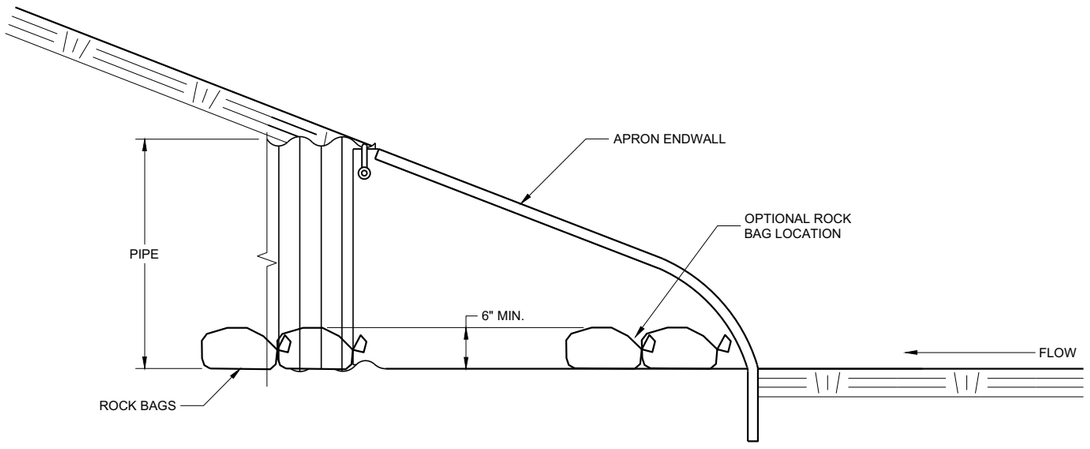
FHWA

6

SDD 08E14 - 01



END VIEW



SIDE VIEW

CULVERT PIPE CHECK

(INSTALL ON INLET END ONLY)

CULVERT PIPE CHECK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE

/S/ Daniel Schave
EROSION CONTROL ENGI

FHWA

6

SDD 08E15 - 01

6

SDD 08E15 - 01

METAL APRON ENDWALLS

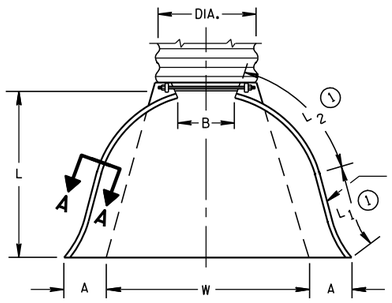
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4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

× EXCEPT CENTER PANEL SEE GENERAL NOTES

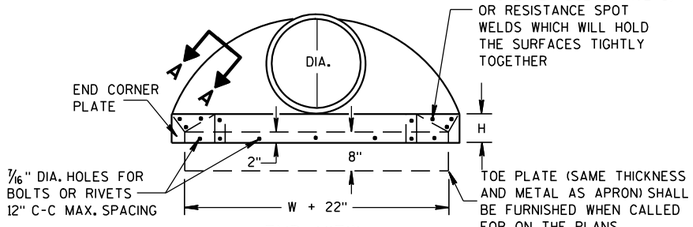
REINFORCED CONCRETE APRON ENDWALLS

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

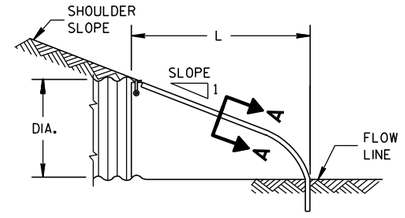
*MINIMUM
**MAXIMUM



PLAN VIEW

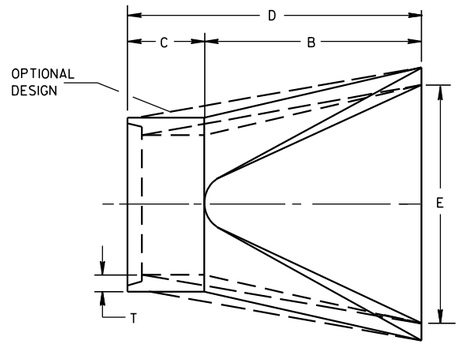


END VIEW

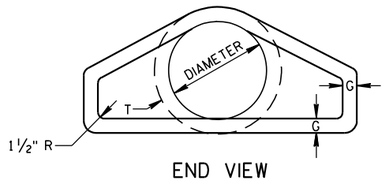


SIDE ELEVATION

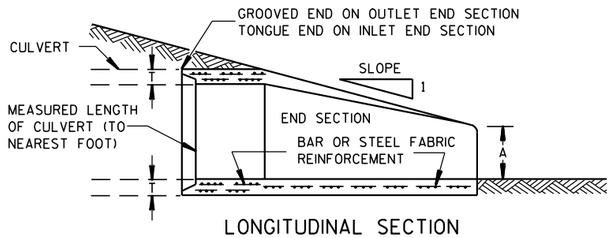
METAL ENDWALLS



PLAN

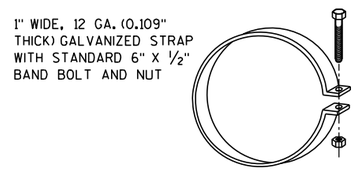


END VIEW



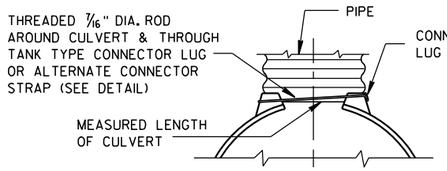
LONGITUDINAL SECTION

CONCRETE ENDWALLS

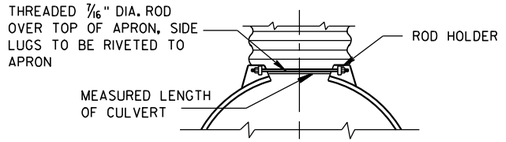


ALTERNATE FOR TYPE 1 CONNECTION

END SECTION CONNECTOR STRAP

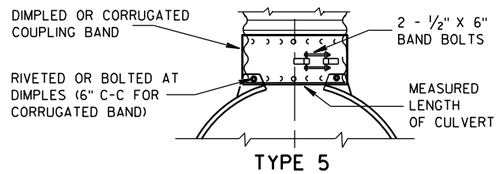


TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE

TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

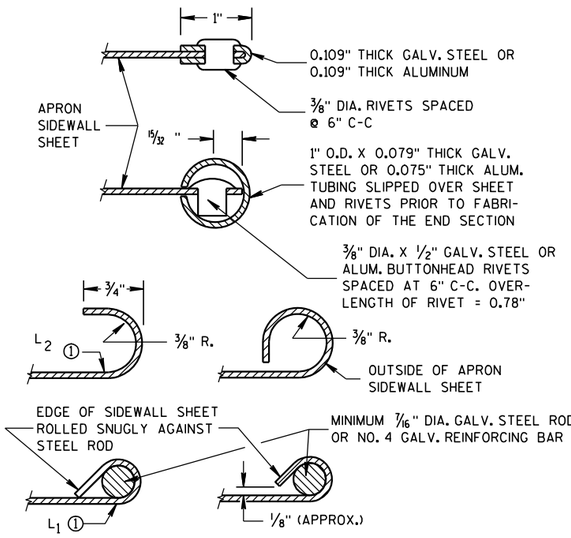
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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

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

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

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

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

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

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

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

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

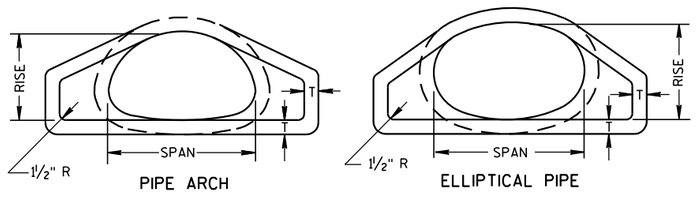
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

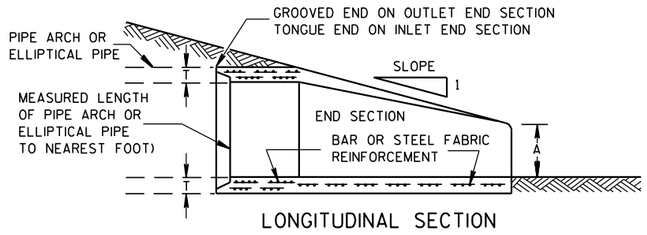
APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

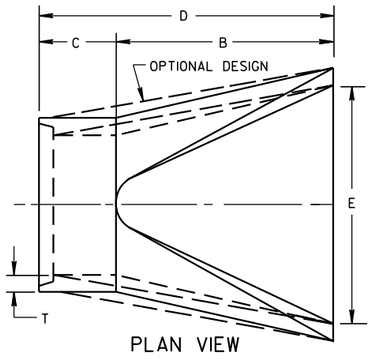
S.D.D. 8 F 1-11



END VIEW

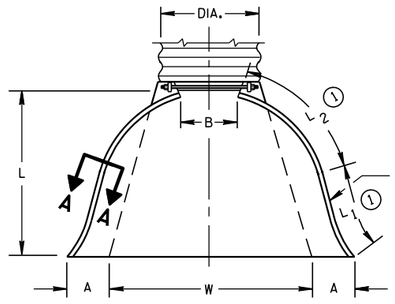


LONGITUDINAL SECTION

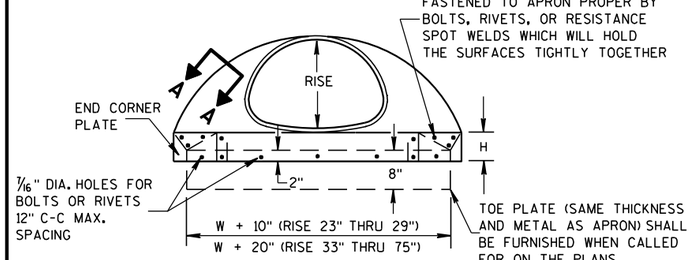


PLAN VIEW

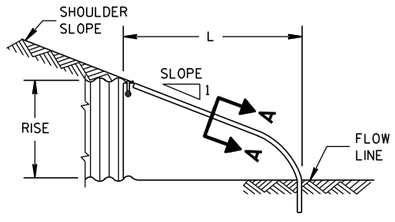
CONCRETE ENDWALLS



PLAN VIEW

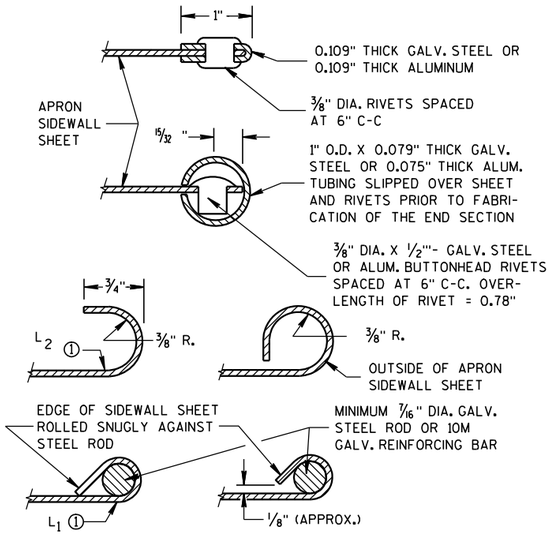


END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

2- 2/3" X 1/2" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19⅜	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37⅝	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45⅜	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL SEE GENERAL NOTES

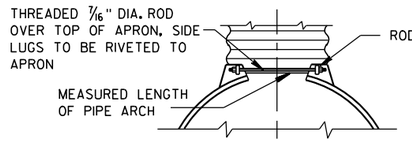
REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	29	18	3	8½	39	33	72	48	3 to 1
30	36	22	3½	9½	50	46	96	60	3 to 1
36	44	27	4	11⅛	60	36	96	72	3 to 1
42	51	31	4½	15 13/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5½	25½	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28½	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE

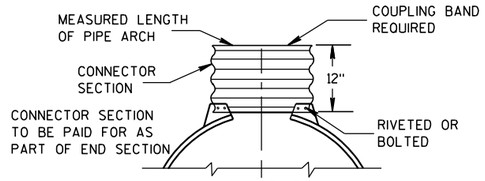
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE



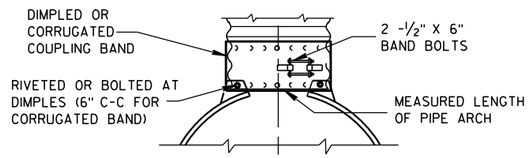
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:

ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

GENERAL NOTES

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

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

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

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

① FOR PIPE ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

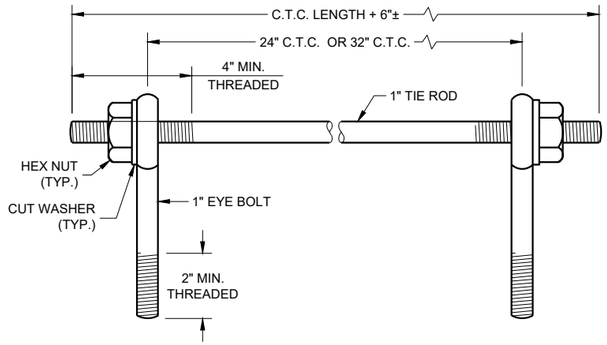
11/30/94 — DATE

/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER

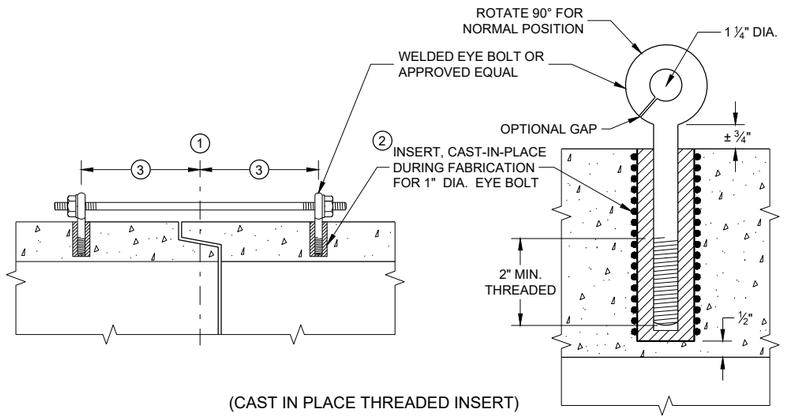
FHWA

6

S.D.D. 8 F 2-1



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) CENTER LINE 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.

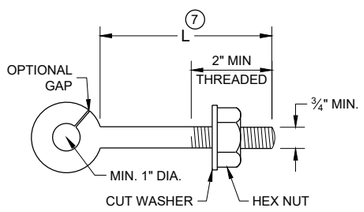
(3) HOLES SHALL BE CAST-IN-PLACE OR DRILLED PER THE APPLICABLE DETAIL, AND EQUAL DISTANCE FROM THE CENTERLINE OF THE JOINT.

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

(5) OPENING TO BE ROD DIAMETER PLUS 1 INCH.

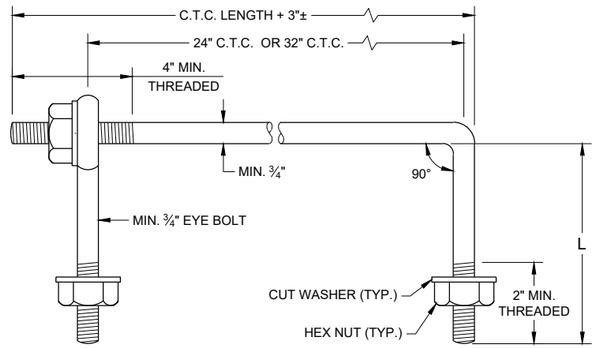
(6) LENGTH ADEQUATE TO EXTEND TO WITHIN ½ INCH OF THE INNER SURFACE OF THE PIPE.

(7) EYE BOLT LENGTH DETERMINED BY WALL THICKNESS, BELL THICKNESS AND BOLT PROJECTION INSIDE PIPE.

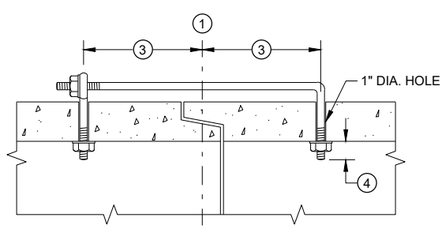


EYE BOLT (7)

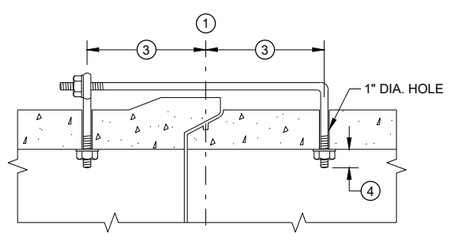
NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" OR 38" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD



(TONGUE AND GROOVE PIPE)



(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

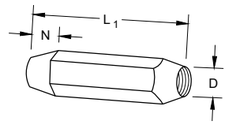
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

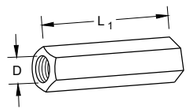
EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12 - 60	⅝	⅝	5	½
66 - 84	¾	¾	5	½
90 - 144	1	1	7	1 7/16

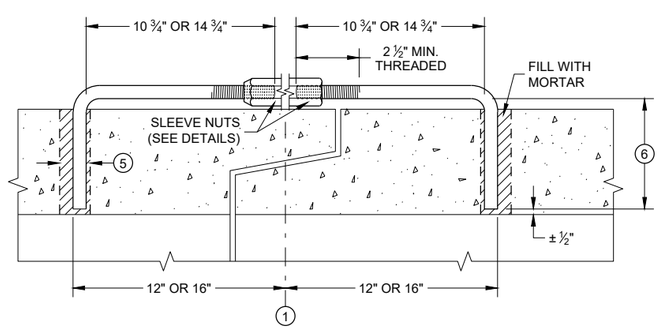
DIMENSIONS SHOWN ARE IN INCHES





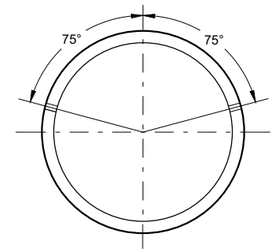
RIGHT AND LEFT THREADS

SLEEVE NUTS



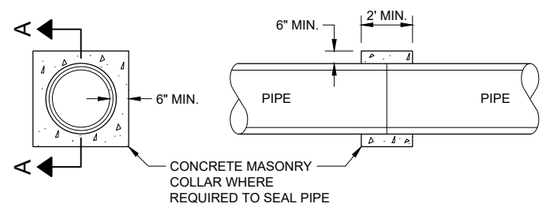
LONGITUDINAL SECTION

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

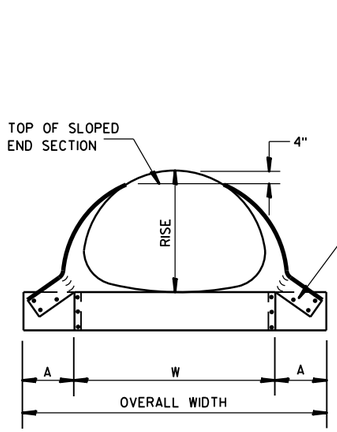
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2021 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER

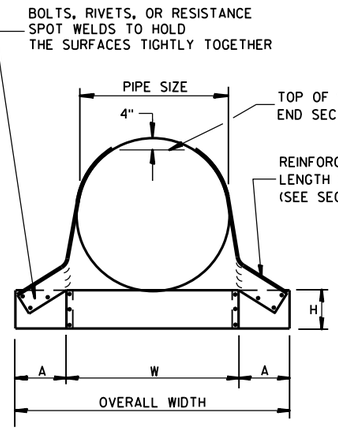
FHWA

SDD 08F04 - 08

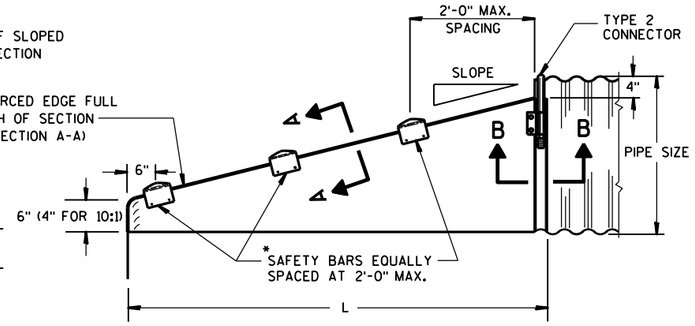
SDD 08F04 - 08



FRONT VIEW



FRONT VIEW



SIDE VIEW

GENERAL NOTES

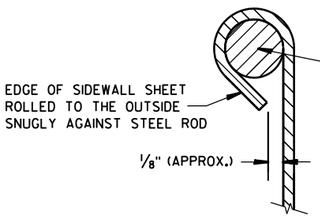
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

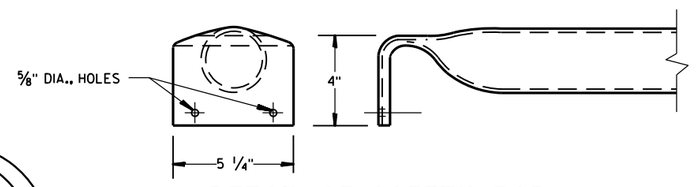
PIPE DIA. (IN.)	MIN. THICK. (Inches)	DIMENSIONS (Inches)				L DIMENSIONS					
		A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	.064	8	6	21	37	4:1	20	6:1	30	10:1	70
18	.064	8	6	24	40	4:1	32	6:1	48	10:1	100
21	.064	8	6	27	43	4:1	44	6:1	66	10:1	130
24	.064	8	6	30	46	4:1	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.

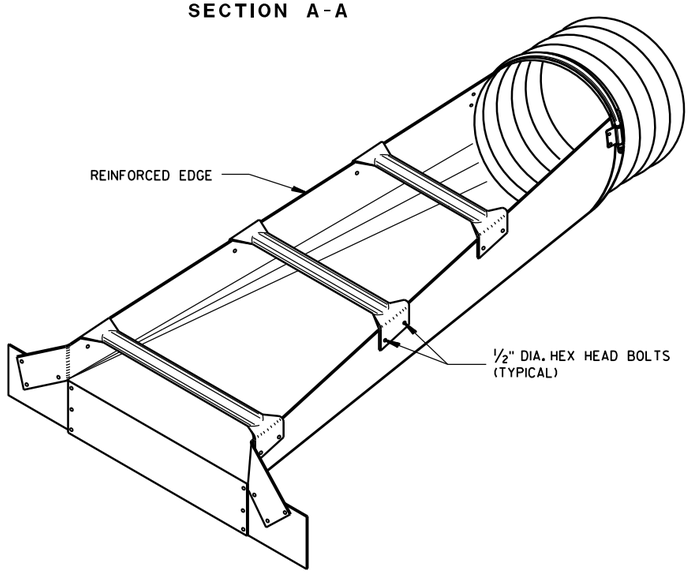


DETAIL OF SAFETY BAR

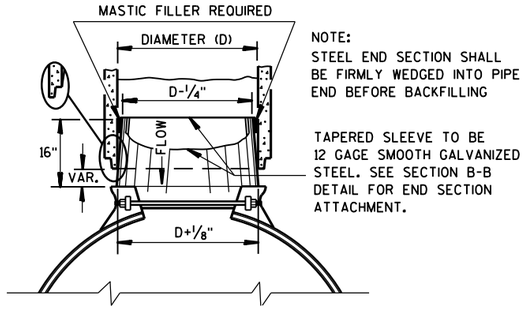
STEEL APRON ENDWALLS FOR PIPE ARCH SLOPED SIDE DRAINS

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	——	——

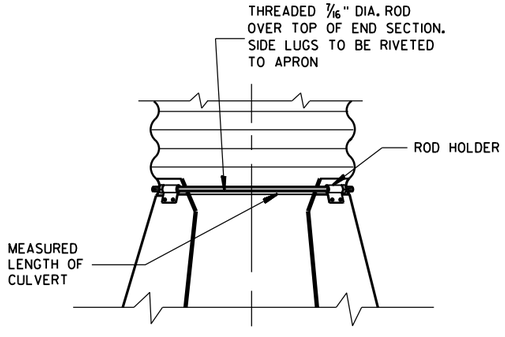
① * MINIMUM THICKNESS OF ALL 10:1 SLOPED SIDE DRAINS IS 0.109".
② ACTUAL SLOPE GREATER THAN 10:1.



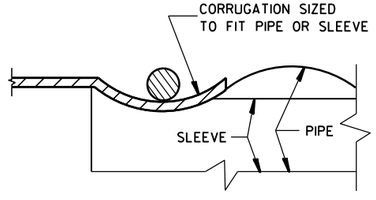
ISOMETRIC VIEW



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

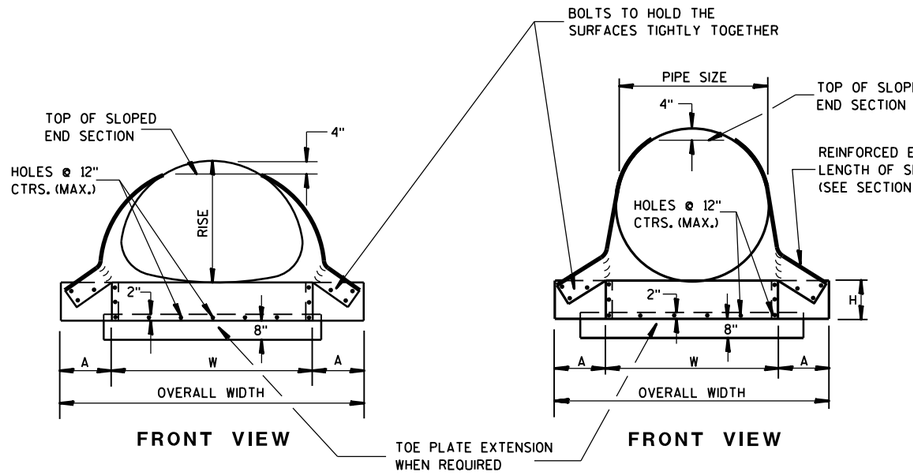
APPROVED
9/14/2012 DATE
/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 F 7-5

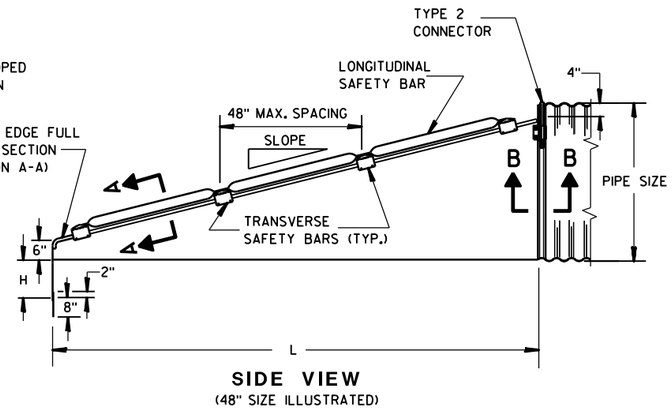
6

S.D.D. 8 F 7-5



FRONT VIEW

FRONT VIEW



SIDE VIEW
(48" SIZE ILLUSTRATED)

GENERAL NOTES

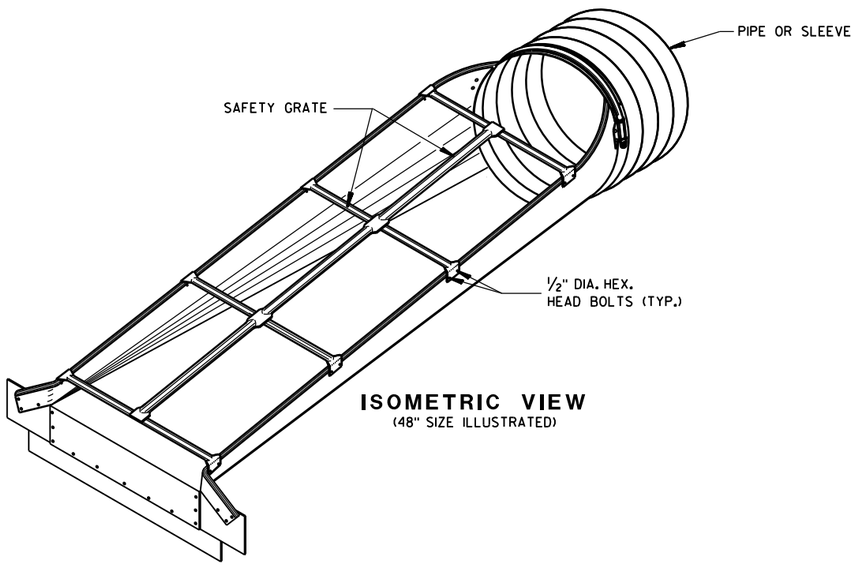
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

SAFETY GRATES SHALL BE FABRICATED FROM 3-INCH DIAMETER GALVANIZED PIPE MEETING THE REQUIREMENTS OF ASTM A-53, GRADE B, SCHEDULE 40 OR APPROVED EQUAL. THE LONGITUDINAL BAR SHALL BE WELDED TO THE TRANSVERSE BARS WHERE THE BARS CROSS. THE NUMBER OF TRANSVERSE BARS REQUIRED WILL VARY DEPENDING ON THE LENGTH OF THE END SECTION.

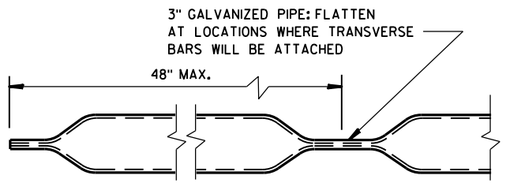
SLOPED STEEL ENDWALLS LOCATED AT THE ENDS OF CONCRETE CULVERT PIPE SHALL BE FURNISHED WITH STEEL ADAPTER SLEEVES.

STEEL APRON ENDWALLS FOR CULVERT PIPE CROSS DRAINS

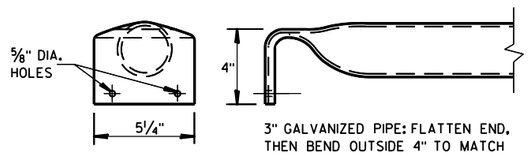
PIPE DIA. (IN.)	MIN. THICK.		DIMENSIONS (Inches)				L DIMENSIONS			
	IN.	GAGE	A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
36	.109	12	12	9	42	66	4:1	104	6:1	156
42	.109	12	16	12	48	80	4:1	128	6:1	192
48	.109	12	16	12	54	86	4:1	152	6:1	228
54	.109	12	16	12	60	92	4:1	176	6:1	264
60	.109	12	16	12	66	98	4:1	200	6:1	300



ISOMETRIC VIEW
(48" SIZE ILLUSTRATED)



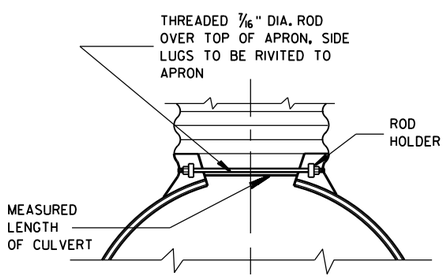
LONGITUDINAL SAFETY BAR



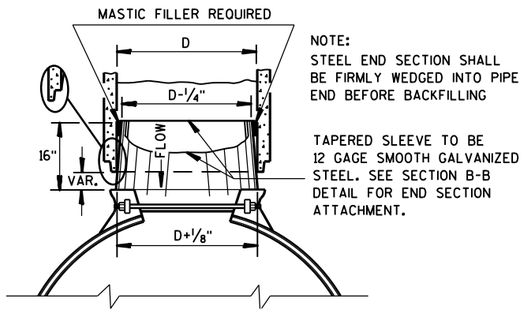
TRANSVERSE SAFETY BAR

STEEL APRON ENDWALLS FOR PIPE ARCH SLOPED CROSS DRAINS

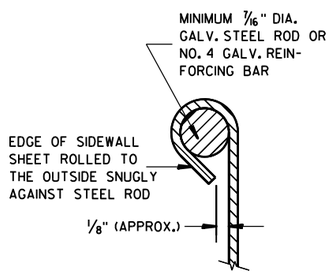
EQUIV. DIA. (IN.)	INCHES		MIN. THICK.		DIMENSIONS (Inches)				L DIMENSIONS			
	SPAN	RISE	IN.	GAGE	A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
30	35	24	.079	14	12	9	41	65	4:1	56	6:1	84
36	42	29	.109	12	12	9	48	72	4:1	76	6:1	114
42	49	33	.109	12	16	12	55	87	4:1	92	6:1	138
48	57	38	.109	12	16	12	63	95	4:1	112	6:1	168
54	64	43	.109	12	16	12	70	102	4:1	132	6:1	198
60	71	47	.109	12	16	12	77	109	4:1	148	6:1	222



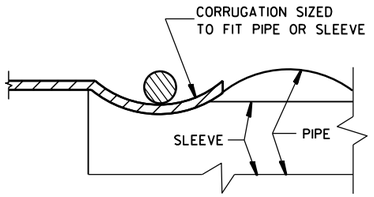
TYPE 2 CONNECTOR DETAIL



STEEL ADAPTER SLEEVE FOR CONCRETE PIPE



SECTION A-A



SECTION B-B

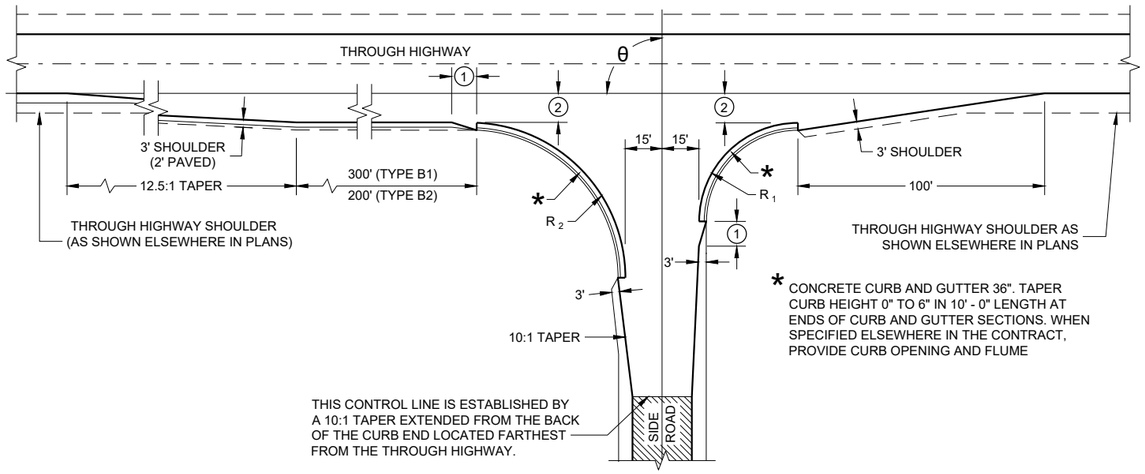
STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED CROSS DRAINS

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 8-2



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

TYPE "B1" AND "B2"

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

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

GENERAL NOTES

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

SIDE ROAD SURFACING NOTE

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

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

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

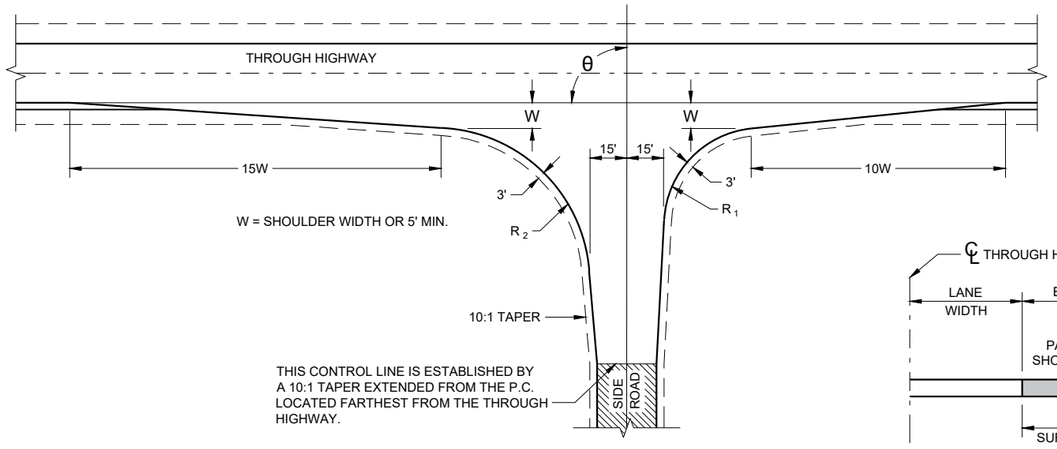
(1) 10-FT TYPICAL.

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

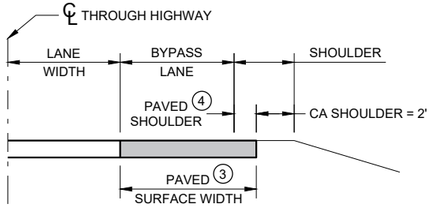
**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.

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

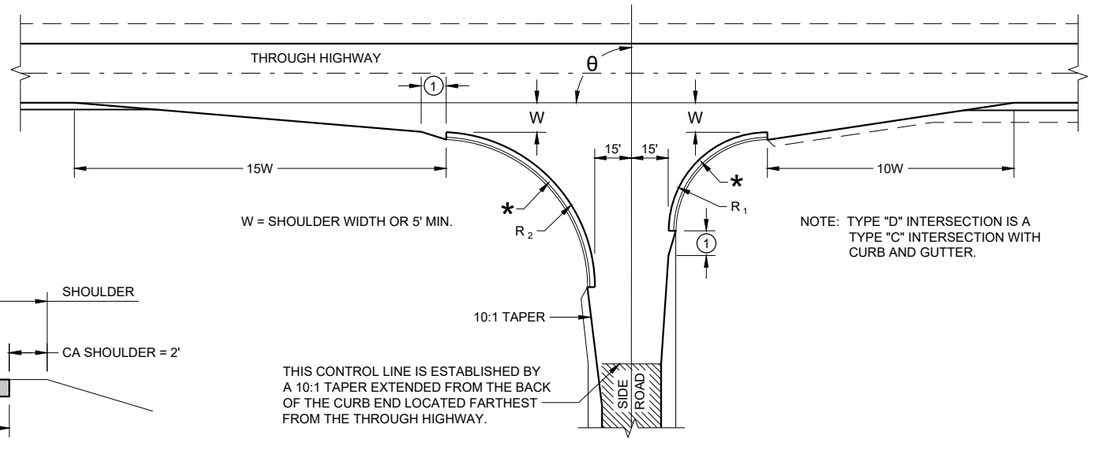
(4) BYPASS LANE PAVED SHOULDER WIDTH = THE GREATER OF 1-FT OR THE PAVED SHOULDER WIDTH OF THE THROUGH HIGHWAY.



TYPE "C"

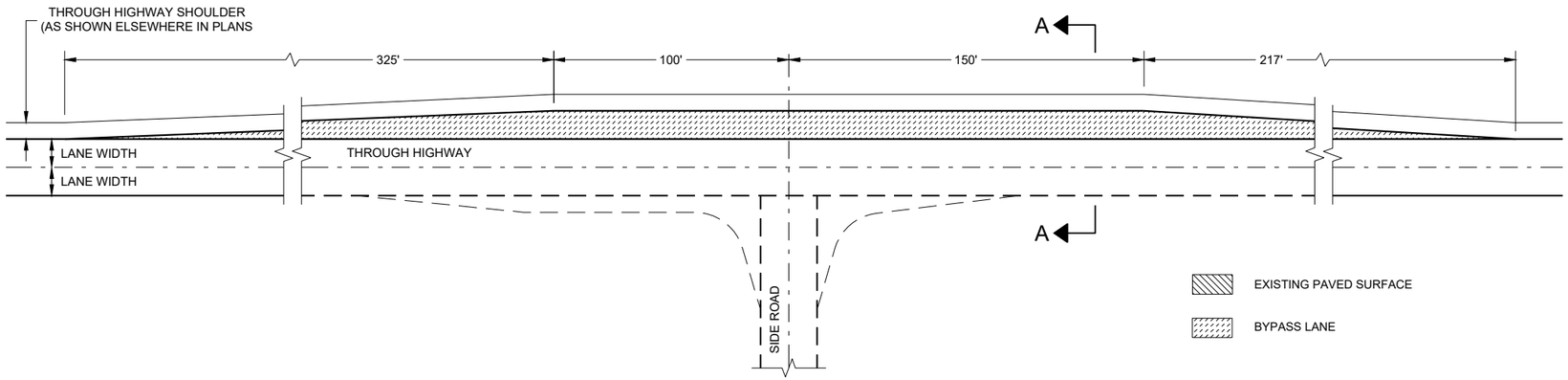


SECTION A - A
(SHOWING BYPASS LANE AND SHOULDER)



NOTE: TYPE "D" INTERSECTION IS A TYPE "C" INTERSECTION WITH CURB AND GUTTER.

TYPE "D"



TEE INTERSECTION BYPASS LANE DETAIL

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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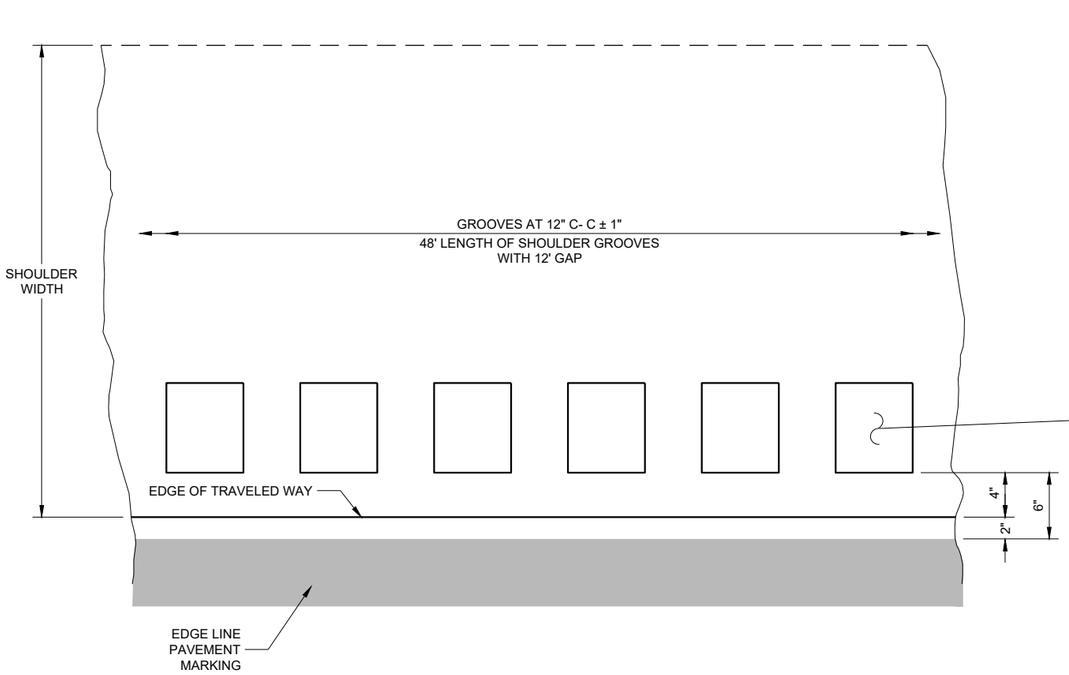
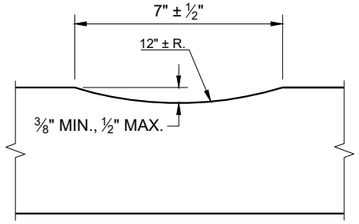
SDD 09A01 - 14a

6

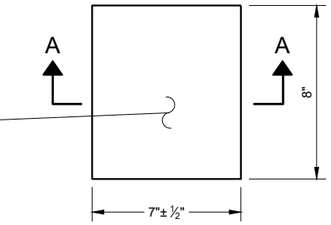
SDD 09A01 - 14a



PLAN DETAIL VIEW
SHOULDER WITH GROOVES



SECTION A - A

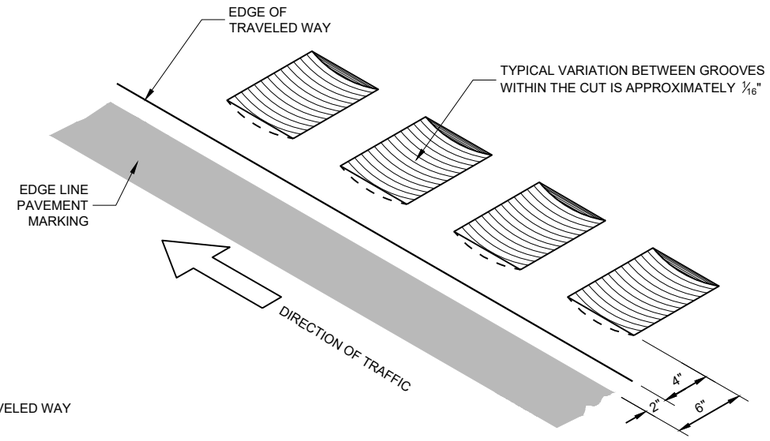


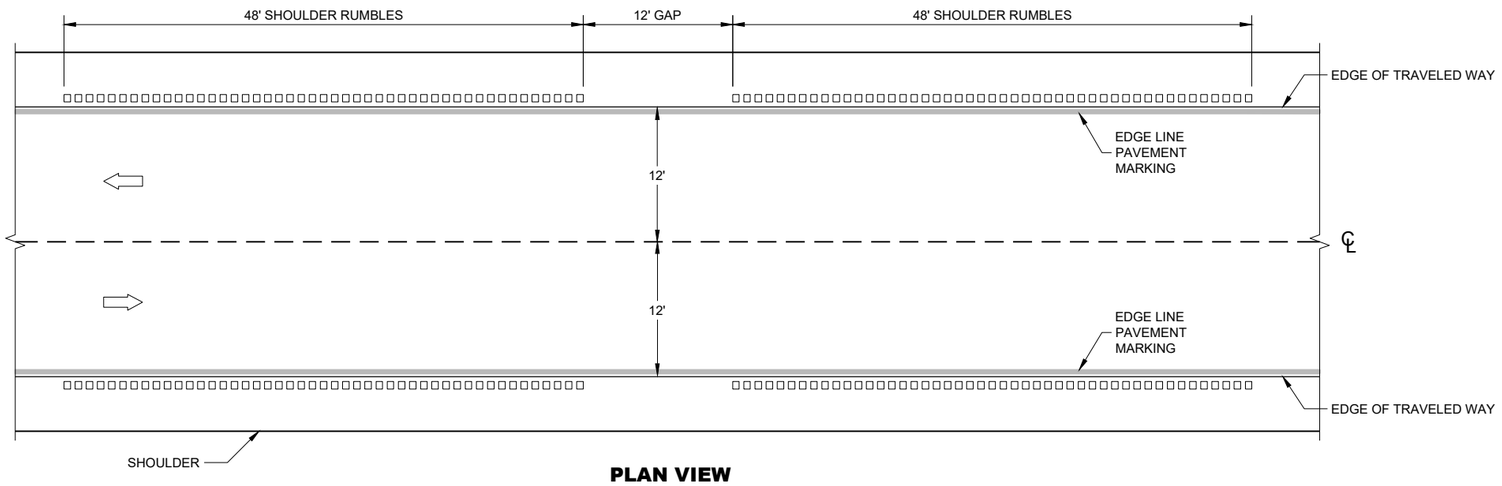
PLAN VIEW
(SINGLE GROOVE)

GENERAL NOTES

DO NOT MILL SHOULDER GROOVES THROUGH INTERSECTIONS, MARKED CROSSWALKS, NON-MOTORIZED PATH CROSSINGS, ETC. REFER TO SDD 13A10 SHEETS "g" AND "h".

SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS WHEN DIRECTED BY THE ENGINEER.





PLAN VIEW

SHOULDER RUMBLE STRIPS - ASPHALT

6

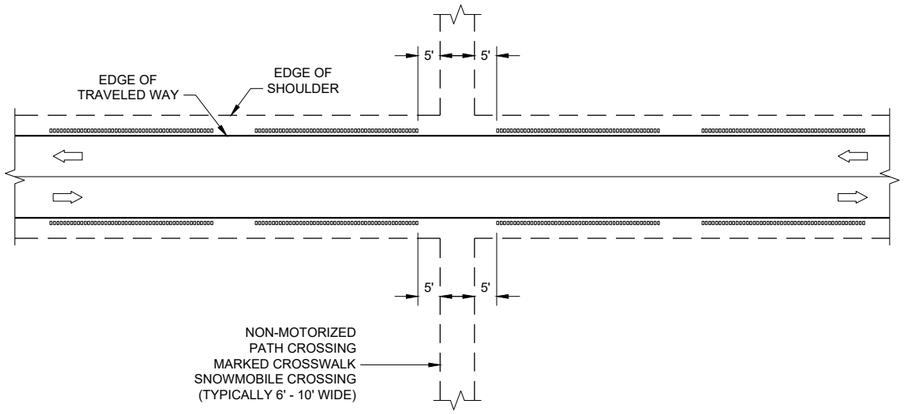
SDD 13A10 - 03a

SHOULDER RUMBLE STRIPS ASPHALT

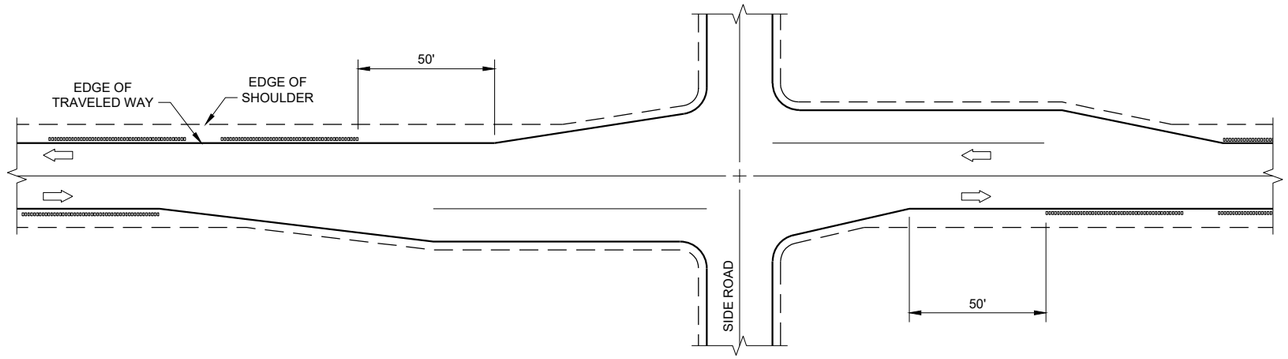
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA

6

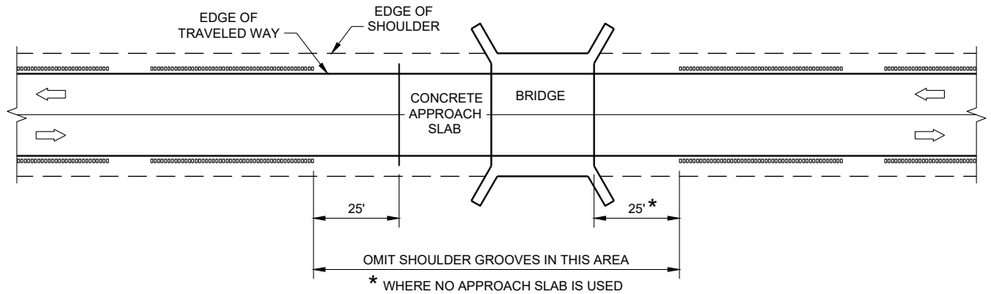
SDD 13A10 - 03a



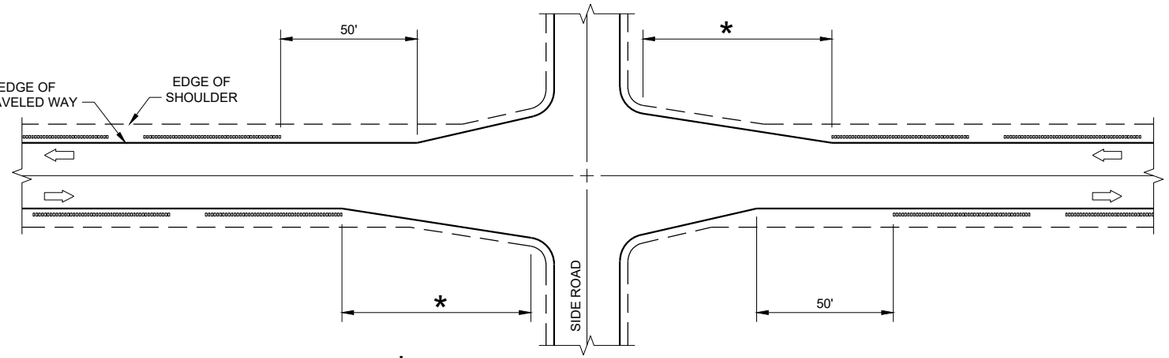
GROOVES AT MISCELLANEOUS CROSSINGS



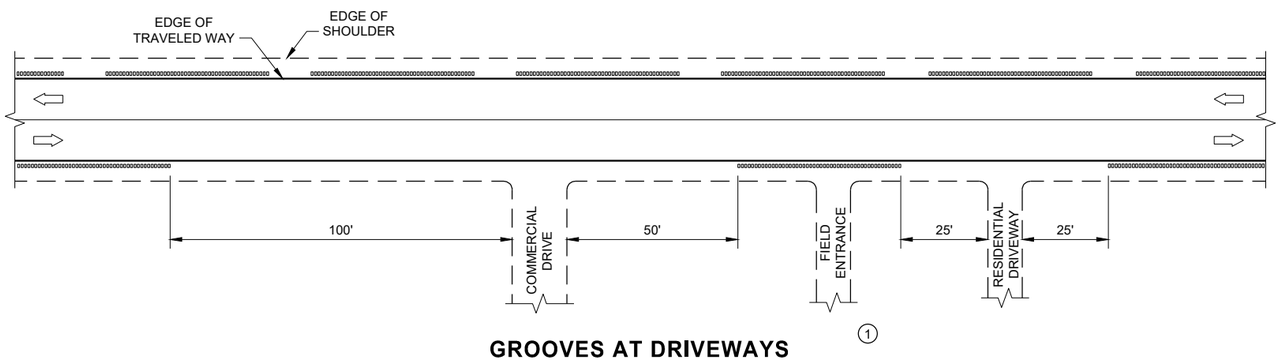
GROOVES AT RIGHT TURN LANE



GROOVES AT BRIDGES



GROOVES AT INTERSECTIONS WITH APPROACH TAPER



GROOVES AT DRIVEWAYS ①

GENERAL NOTES

① SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS. WHEN DIRECTED BY THE ENGINEER.

SHOULDER AND EDGE LINE RUMBLE STRIPS CROSSINGS, INTERSECTIONS, BRIDGES, DRIVEWAYS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

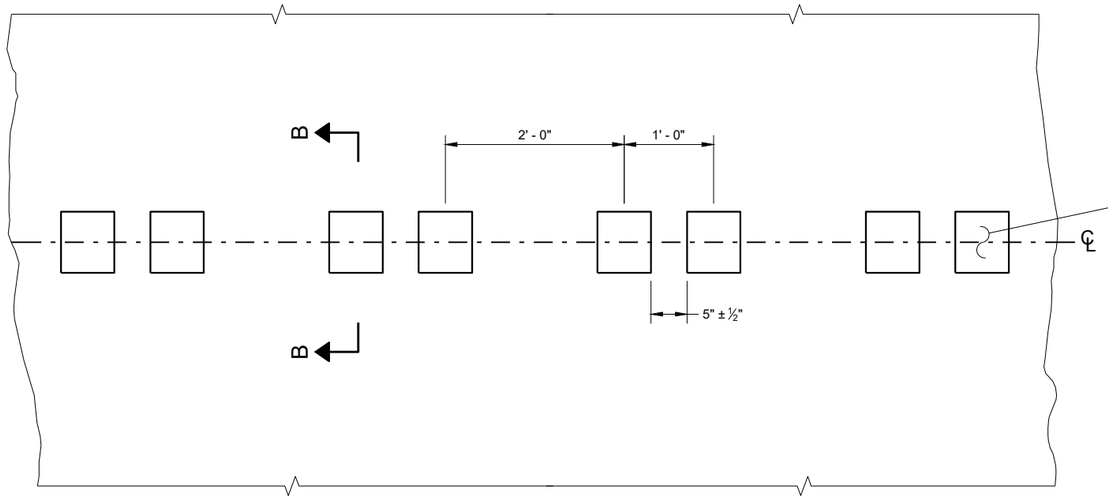
6

SDD 13A10 - 03g

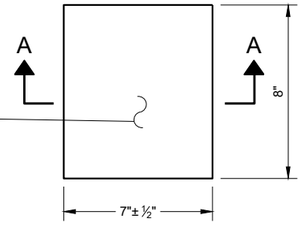
GENERAL NOTES

DO NOT MILL SHOULDER GROOVES THROUGH INTERSECTIONS, MARKED CROSSWALKS, NON-MOTORIZED PATH CROSSINGS, ETC. REFER TO SDD 13A11 SHEETS "d" AND "e".

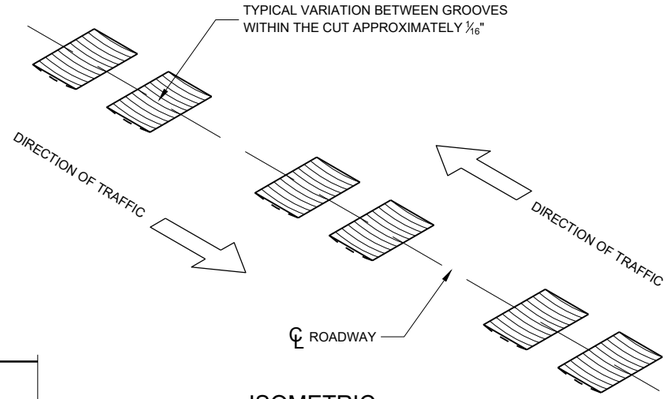
CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS WHEN DIRECTED BY THE ENGINEER.



PLAN DETAIL VIEW



PLAN VIEW
(SINGLE GROOVE)



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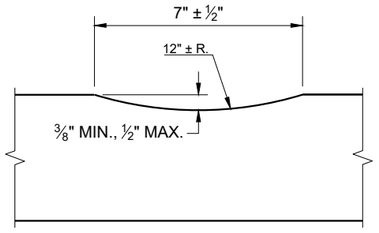
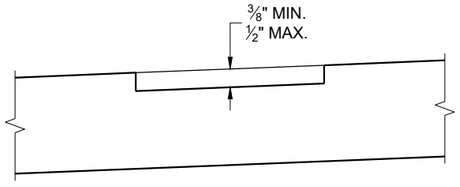
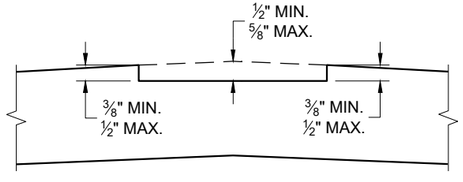


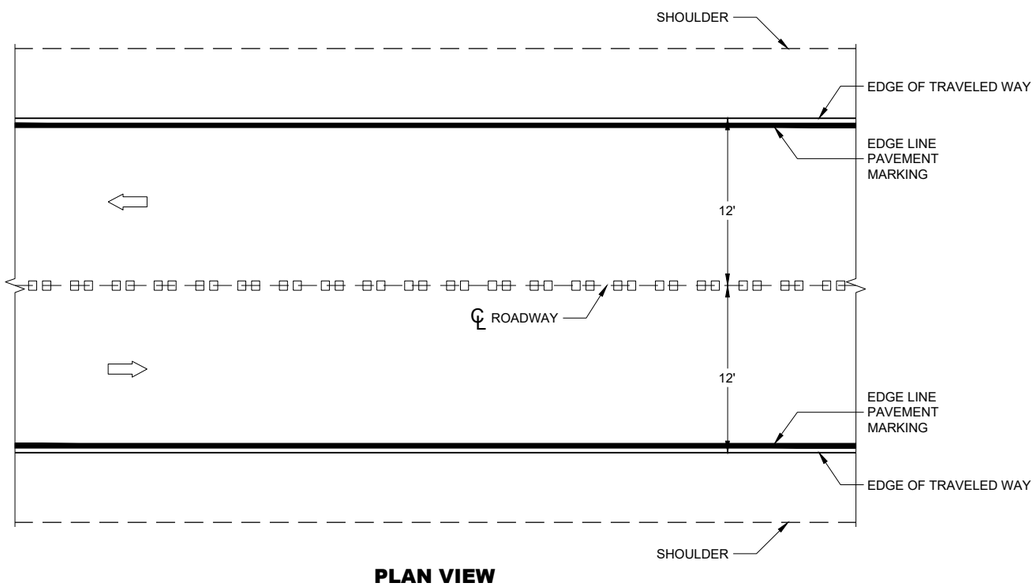
SECTION A - A



SECTION B - B
SUPERELEVATED ROADWAY



SECTION B - B
CROWNED ROADWAY



PLAN VIEW

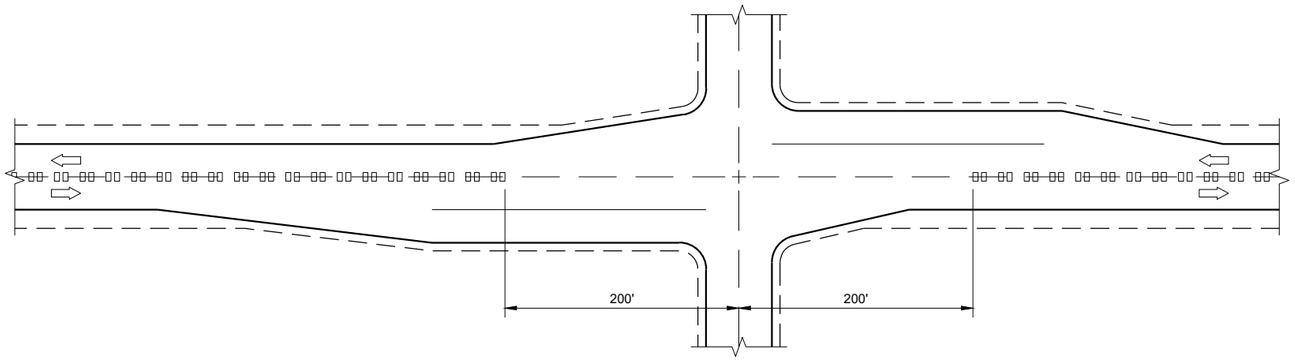
CENTERLINE RUMBLE STRIPS - ASPHALT

6

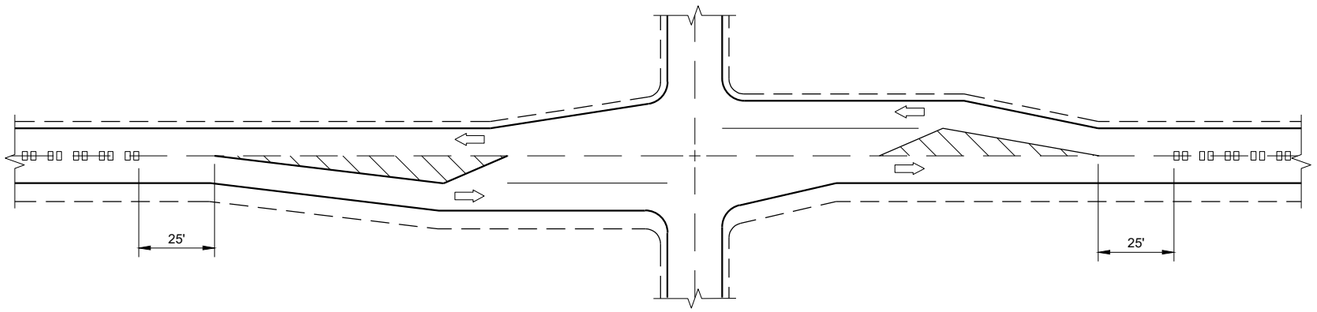
CENTERLINE RUMBLE STRIPS - ASPHALT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA

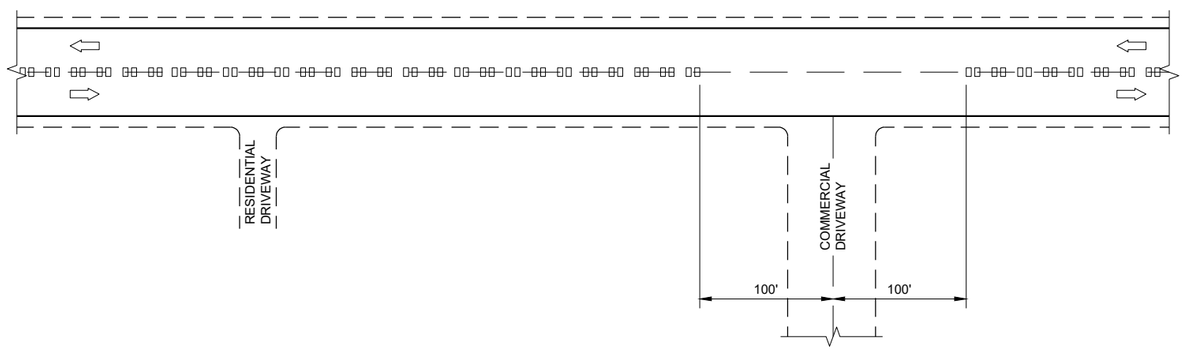
SDD 13A11 - 04a



CENTERLINE GROOVES AT INTERSECTIONS



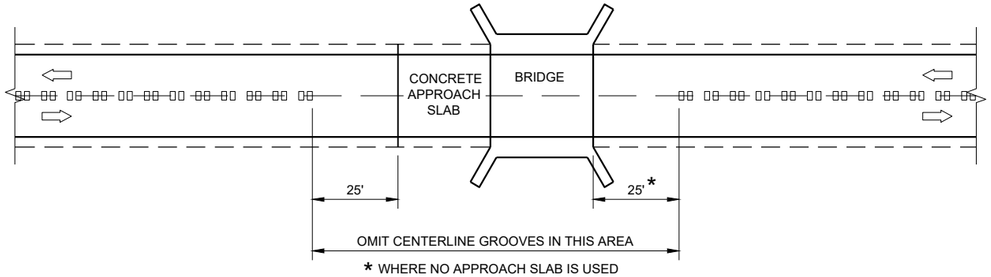
CENTERLINE GROOVES AT INTERSECTIONS (WITH LEFT TURN LANES)



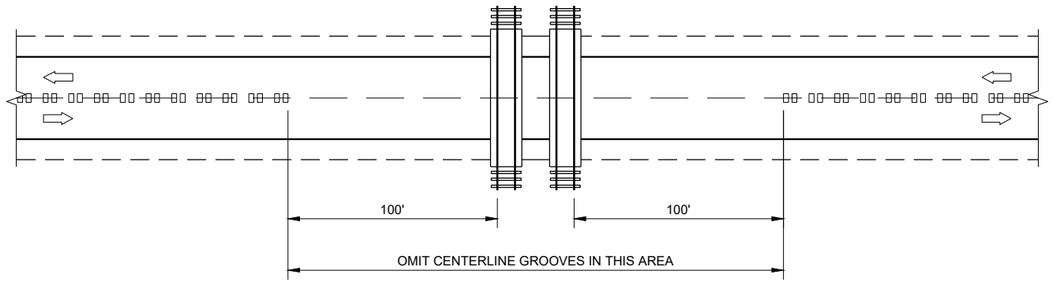
CENTERLINE GROOVES AT DRIVEWAYS (1)

GENERAL NOTES

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



CENTERLINE GROOVES AT BRIDGES



CENTERLINE GROOVES AT RAILROADS

CENTER LINE RUMBLE STRIPS - INTERSECTIONS, DRIVEWAYS, BRIDGES, RAIL ROADS

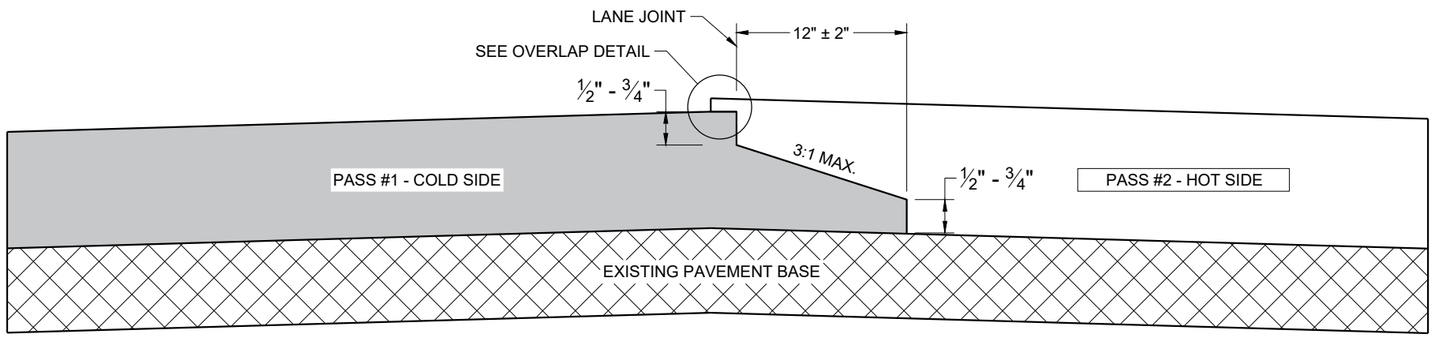
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ John Jenkins — ROADWAY STANDARDS DEVE ENGINEER

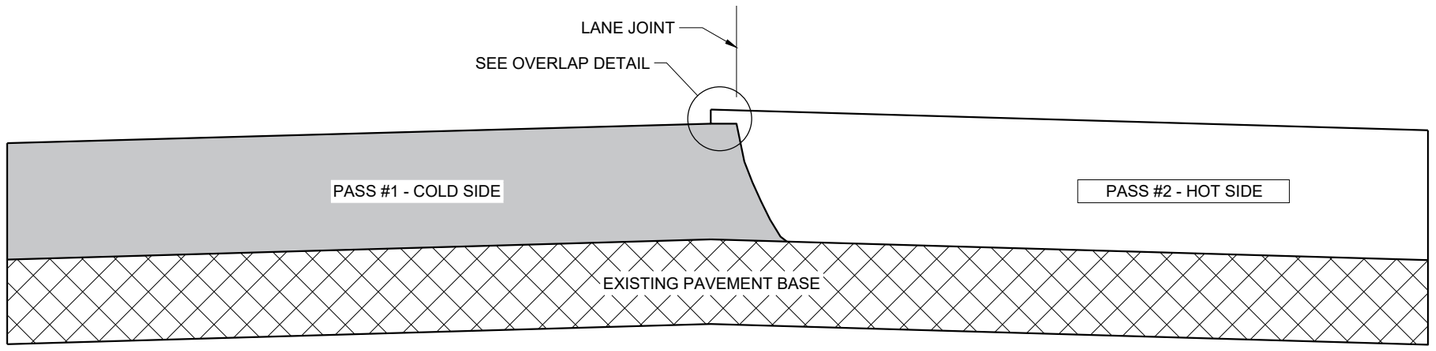
FHWA

6

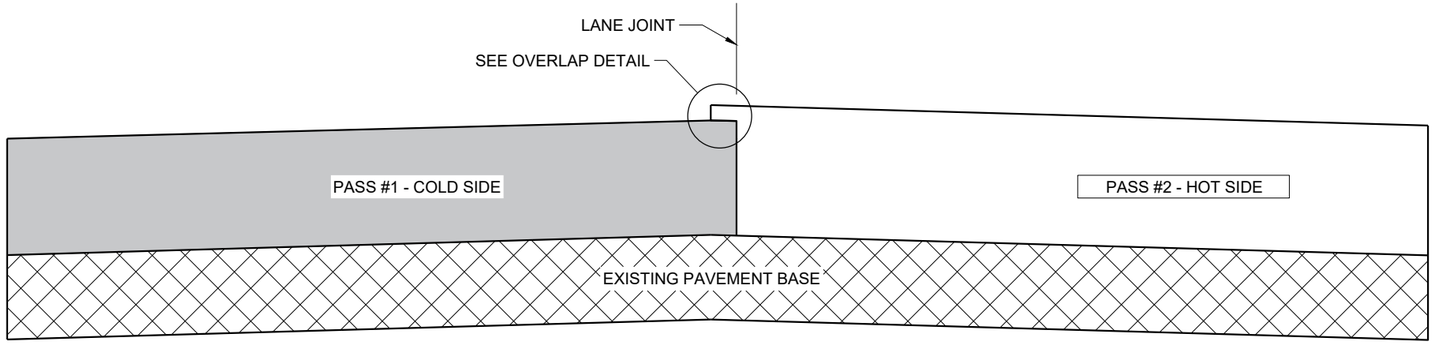
SDD 13A11 - 04d



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

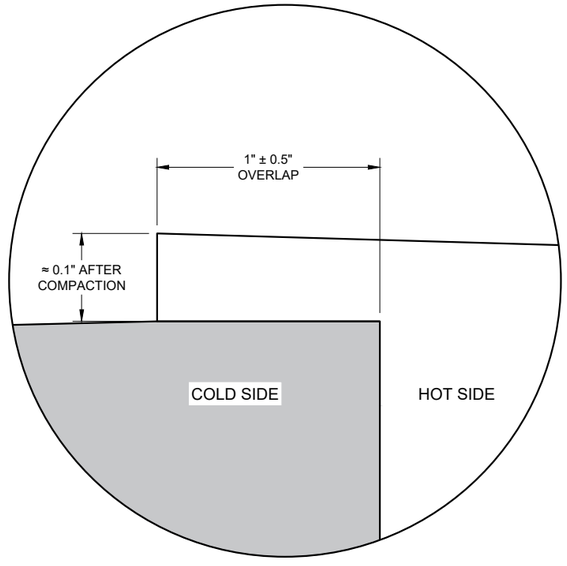
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

FOR ALL LONGITUDINAL JOINTS, ENSURE THE PAVER SCREED OVERLAPS THE PREVIOUSLY PLACED PAVEMENT BY 1" ± 0.5" AND THE HOT SIDE OF THE JOINT REMAINS HIGHER THAN THE COLD SIDE BY APPROXIMATELY 0.1" AFTER FINAL COMPACTION. (IT WILL BE FLUSH WHEN PAVING IN ECHELON.)

ONLY REMOVE THE LONGITUDINAL NOTCHED WEDGE JOINT FOR SMA PAVEMENT OR AS DIRECTED BY THE ENGINEER TO ADDRESS SPECIFIC LENGTHS OF JOINT DAMAGED BY TRAFFIC.

WHEN MILLING BACK OR REMOVING ANY LONGITUDINAL JOINT, LIMIT THE MATERIAL REMOVED TO 2" FROM THE TOP NOTCH OR FROM THE VERTICAL JOINT EDGE ON THE COLD SIDE OF THE JOINT.

USE LONGITUDINAL MILLED JOINT AS PLANS SHOW OR THE AS THE ENGINEER DIRECTS.



OVERLAP DETAIL (TYPICAL)

6

6

SDD 13C19 - 03

SDD 13C19 - 03

HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2020
DATE

/S/ Steven Hefel
HMA PAVEMENT ENGIN

FHWA

(1) WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

(2) USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

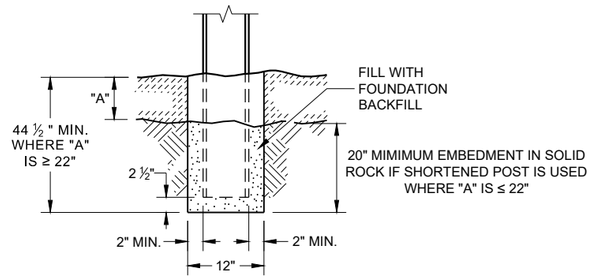
(3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

(4) WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

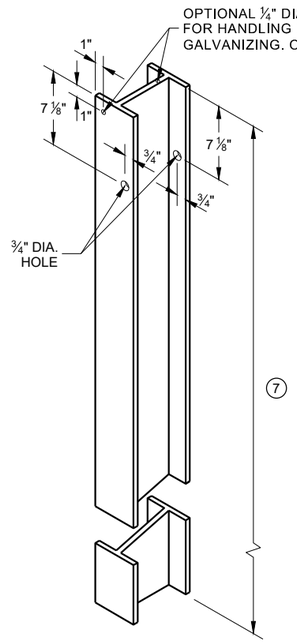
(5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ±1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 ¾" TO 32".

(6) WHEN USING STEEL POST 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.

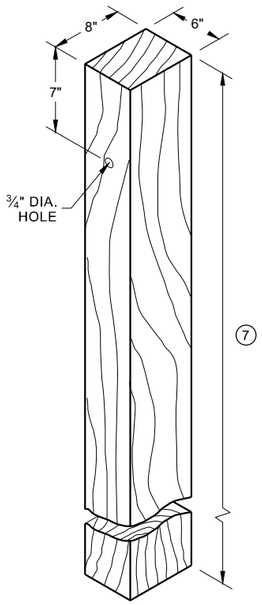
(7) TOTAL POST LENGTH FOR TYPE K IS 7' - 0".
TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' - 0".



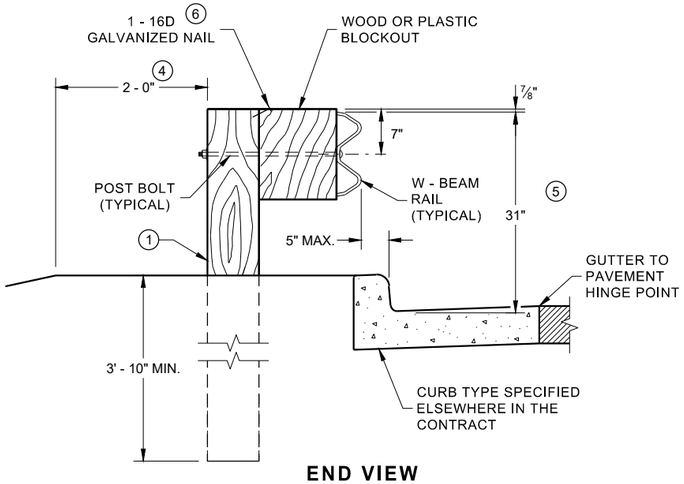
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (3)



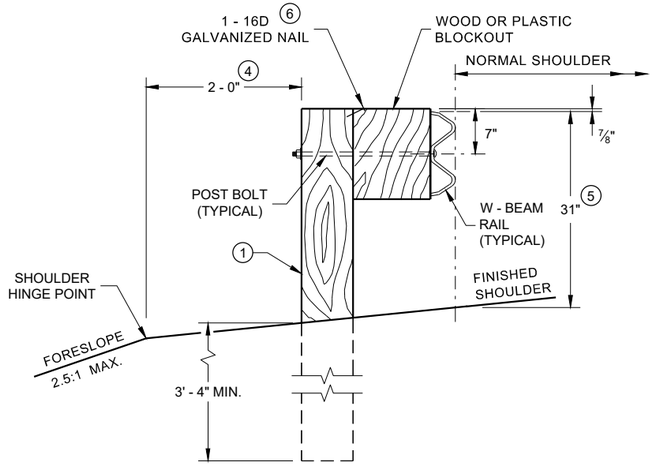
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



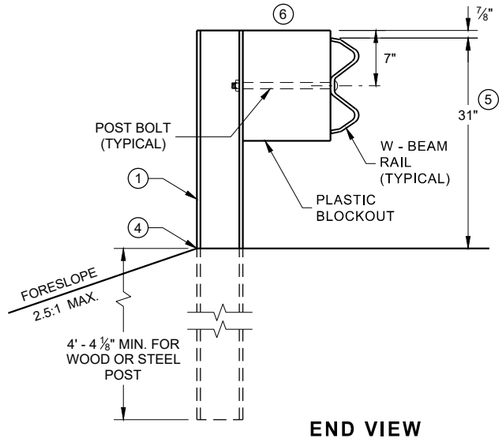
WOOD POST (6" X 8") NOMINAL (1)



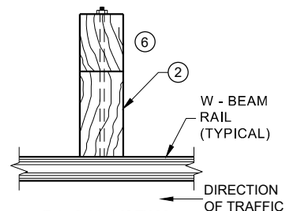
END VIEW
LOCATED ALONG A CURBED ROADWAY



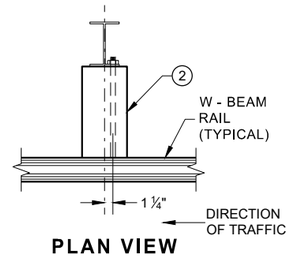
END VIEW
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



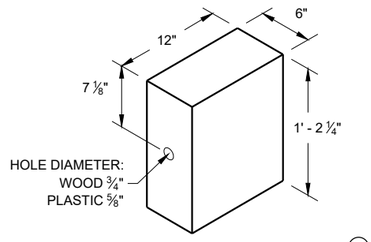
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST, PLASTIC BLOCKOUT & BEAM



WOOD OR PLASTIC BLOCKOUT (2)

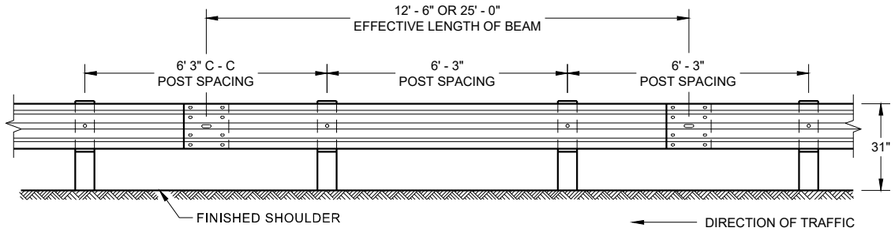
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

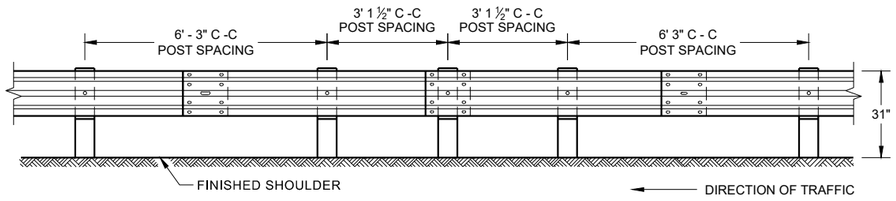
SDD 14B42 - 07a

6

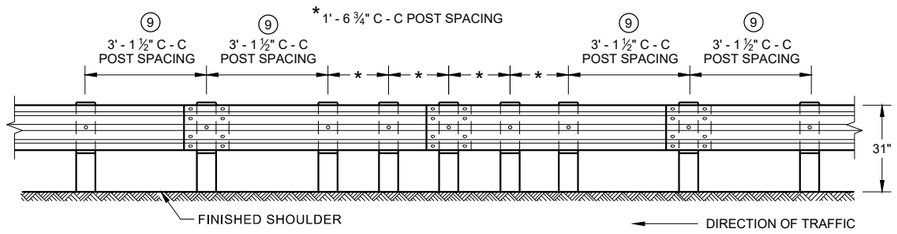
SDD 14B42 - 07a



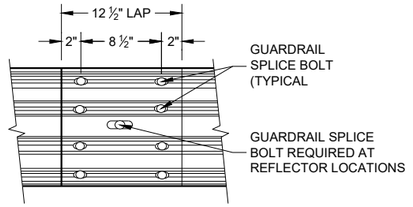
FRONT VIEW
POST SPACING STANDARD INSTALLATION



FRONT VIEW
HALF POST SPACING (HS) AND
HALF POST SPACING WITH LONGER POSTS (K)



FRONT VIEW
QUARTER POST SPACING (QS)



FRONT VIEW
MID-SPAN BEAM SPLICE

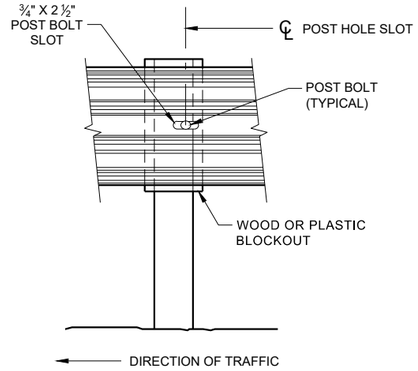
GENERAL NOTES

⑧ DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

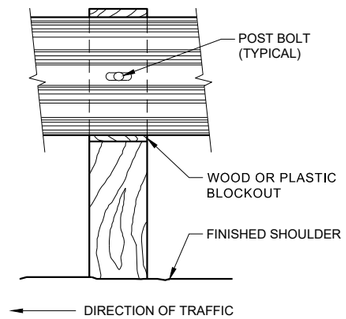
⑨ 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

POST BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND ⅝" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

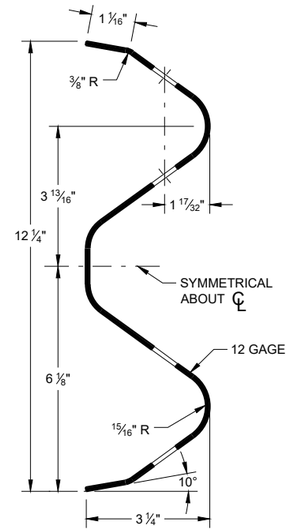
GUARD RAIL SPLICE BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



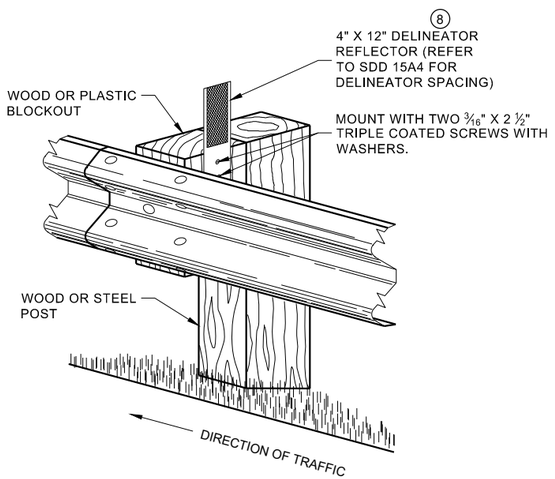
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



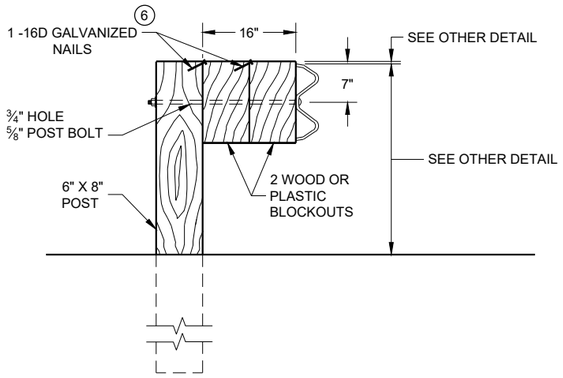
ONE SIDED REFLECTOR DETAIL
AND TYPICAL INSTALLATION

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 14B42 - 07b
SDD 14B42 - 07b

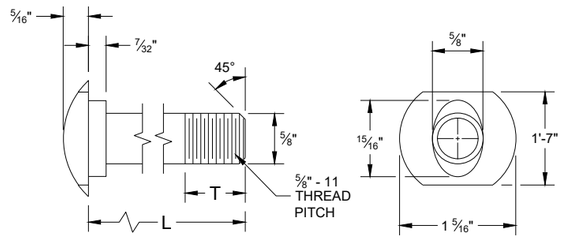


DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.

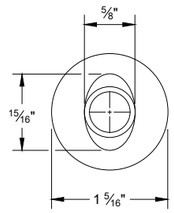
NOTE:

1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 3⁄16".
2. IF THE BOLT EXTENDS MORE THAN ¼" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

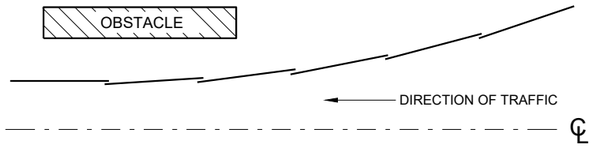


POST BOLT TABLE

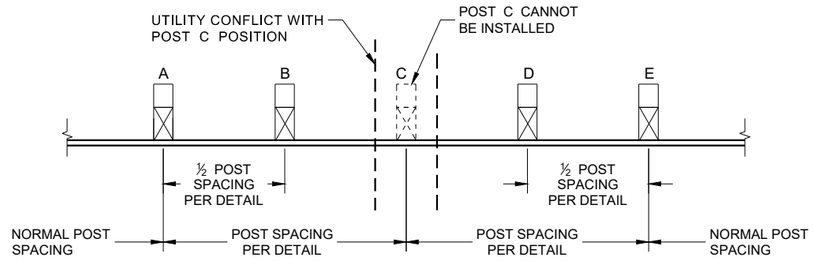
L	T (MIN.)
1 ¼"	1 ⅛"
2"	1 ¾"
10"	4"
14"	4 1⁄16"
18"	4"
21"	4 1⁄16"
25"	4"



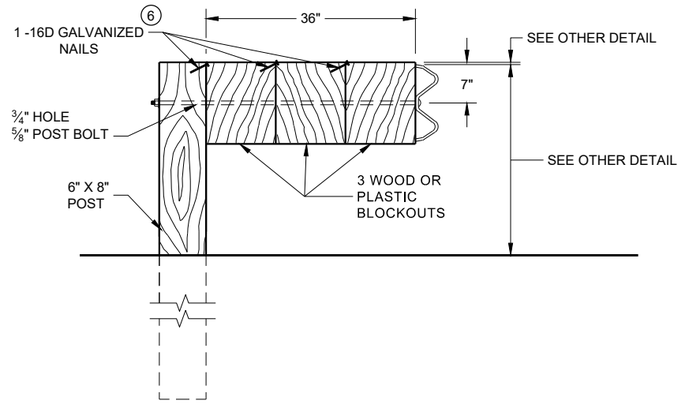
ALTERNATE BOLT HEAD



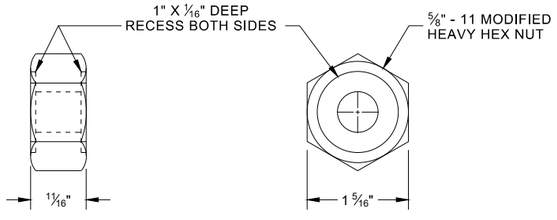
PLAN VIEW
BEAM LAPPING DETAIL



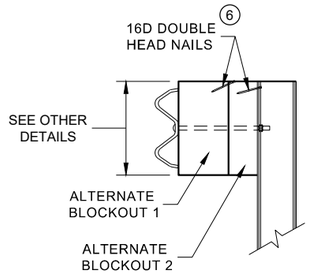
POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



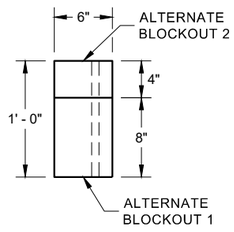
DETAIL FOR 36" BLOCKOUT DEPTH



POST BOLT, SPLICE BOLT AND RECESS NUT



SIDE VIEW



PLAN VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

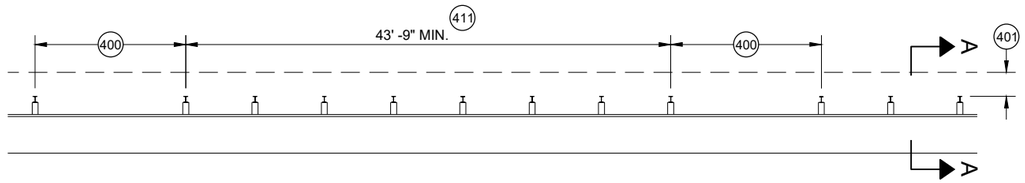
NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

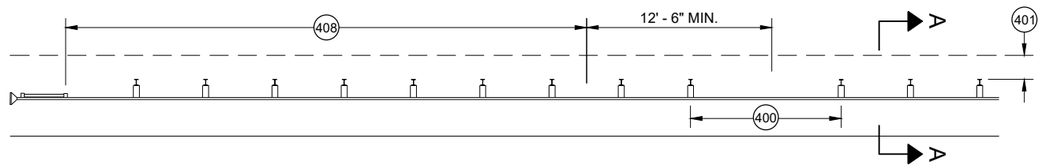
(6) WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

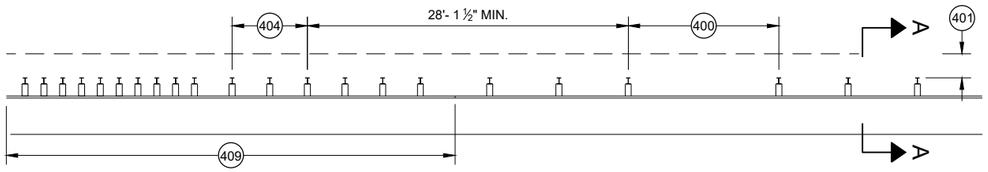
6
SDD 14B42 - 07c



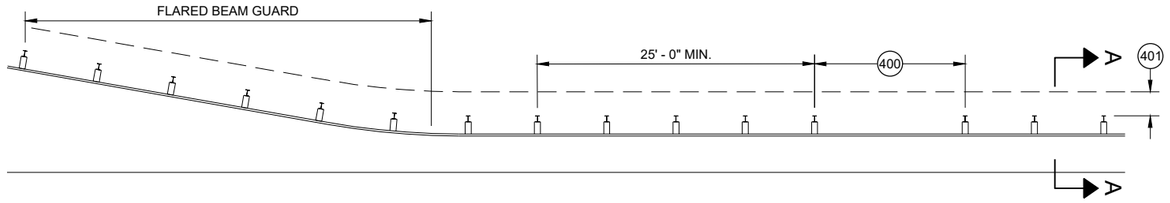
MISSING POST IN MGS GUARDRAIL



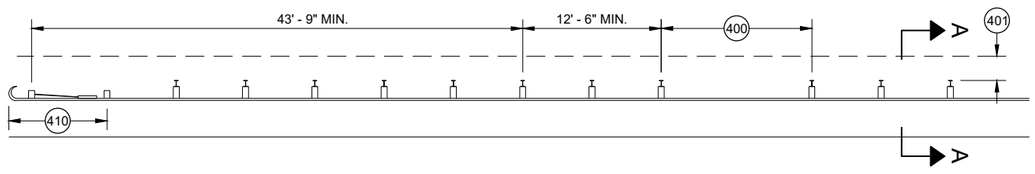
MISSING POST IN MGS GUARDRAIL NEAR EAT



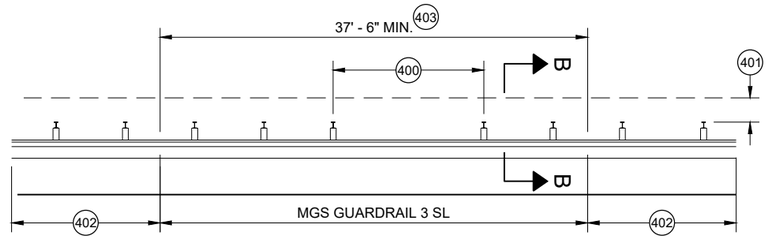
MISSING POST IN MGS GUARDRAIL NEAR AN APPROACH TRANSITION



MISSING POST IN MGS GUARDRAIL NEAR FLARED BEAM GUARD

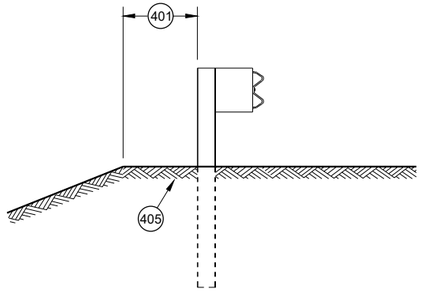


MISSING POST IN MGS GUARDRAIL NEAR A TYPE 2 END TERMINAL

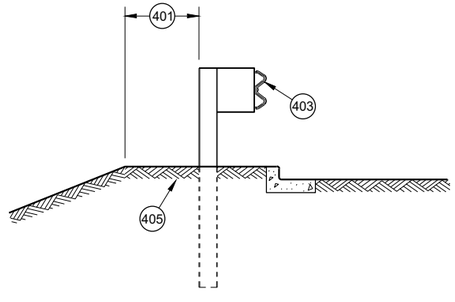


MISSING POST IN SHORT SPAN MGS GUARDRAIL NEAR CURB (SL) 407

(400) MAX SPAN 12' - 6"
(401) 2' MIN.
(402) MGS GUARDRAIL 3
(403) NESTING BEAM GUARD
(404) ASYMMETRIC TRANSITION
(405) SOIL WELL DRAINED AND COMPACTED
(406) SEE OTHER DRAWINGS IN THIS SDD
(407) SEE OTHER DRAWINGS FOR MIN. SPACING BETWEEN SPANS
(408) SEE SDD 14B44
(409) SEE SDD 14B45
(410) SEE SDD 14B47
(411) MINIMUM DISTANCE BETWEEN MISSING POST SPANS.



SECTION A - A 406



SECTION B - B 406

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2021 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE UNIT SUPERVISOR
FHWA

6

SDD 14B42 - 07d

GENERAL NOTES

(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

(C) DIFFERENT MANUFACTURERS REQUIRE DIFFERENT PERFORATED W - BEAM RAIL END PANELS. SEE MANUFACTURER'S INFORMATION.

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

(E) HARDWARE MAY VARY BETWEEN MANUFACTURER. SEE MANUFACTURER'S DRAWING FOR INFORMATION.

DIMENSIONS MAY VARY, MANUFACTURER'S INFORMATION.

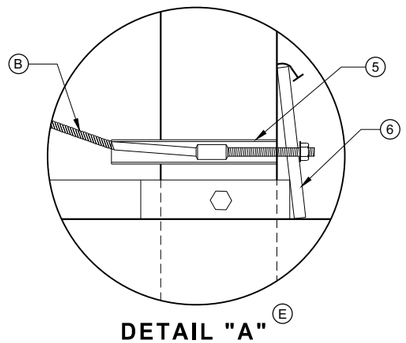
SEE SDD 14B42 FOR MORE INFORMATION.

* DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

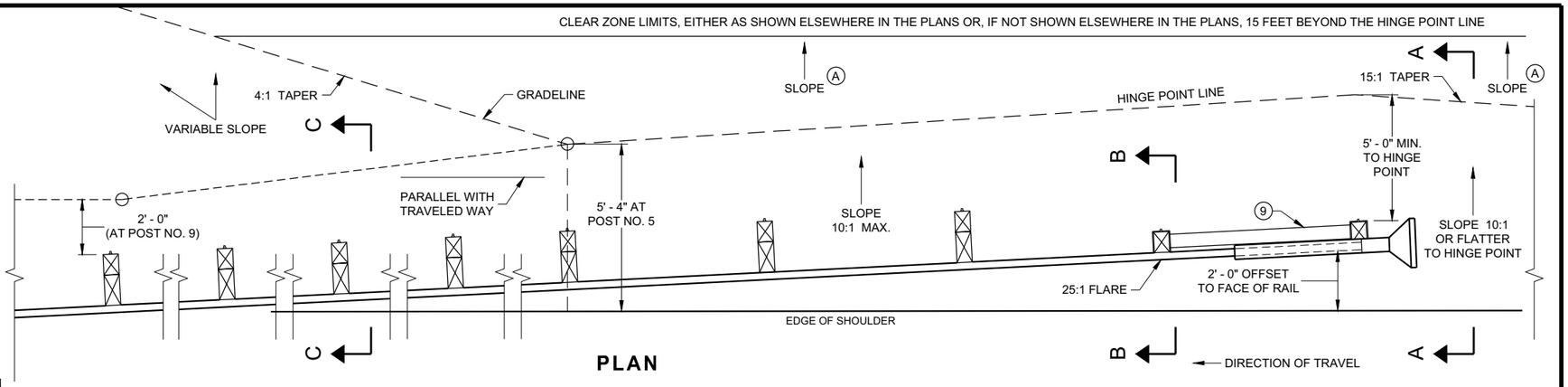
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

SEE MANUFACTURER'S DRAWING FOR SPLICE LOCATION, HARDWARE DIMENSIONS AND INSTALLATION INSTRUCTIONS.

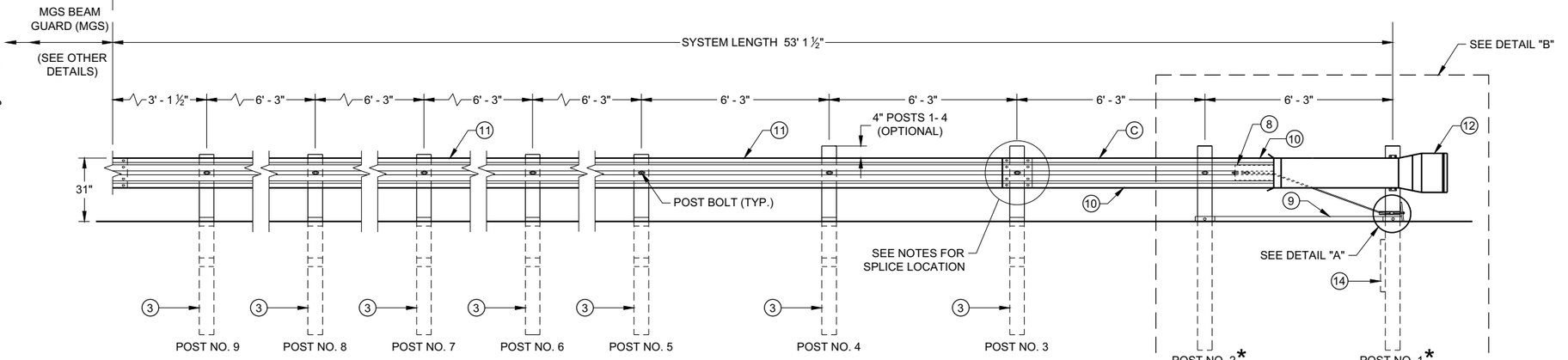
THE CENTER OF THE UPPER 3 ½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE. WOOD BLOCKS ON POSTS NUMBERED 3 THROUGH 9 MAY BE ADJUSTED UP TO 3" ABOVE THE TOP OF POST.



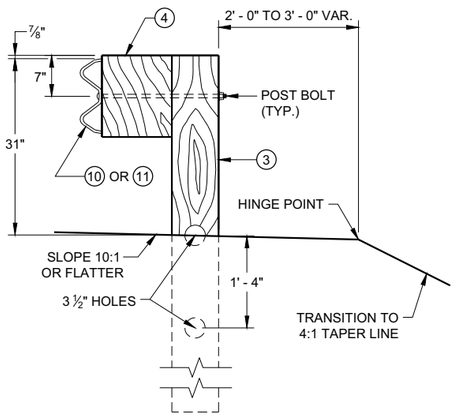
DETAIL "A" (E)



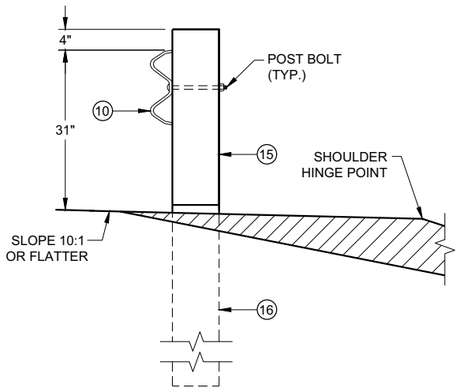
PLAN



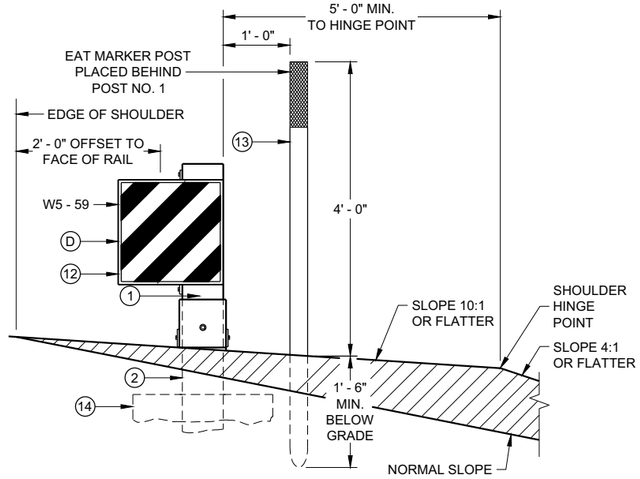
ELEVATION



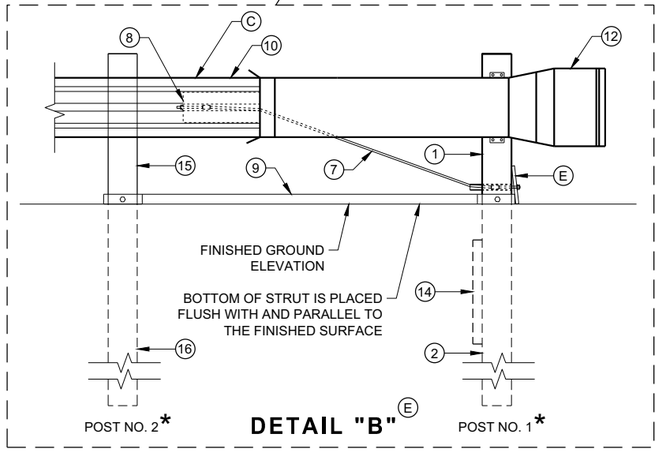
SECTION C - C
TYPICAL AT POST NOS. 3 - 9



SECTION B - B
TYPICAL AT POST NO. 2*



SECTION A - A
TYPICAL AT POST NO. 1*



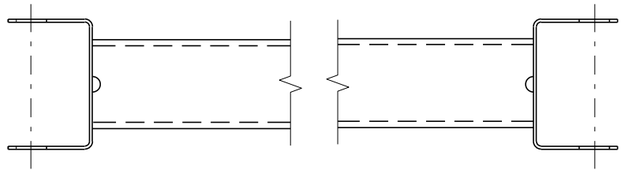
DETAIL "B" (E)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B44 - 04a

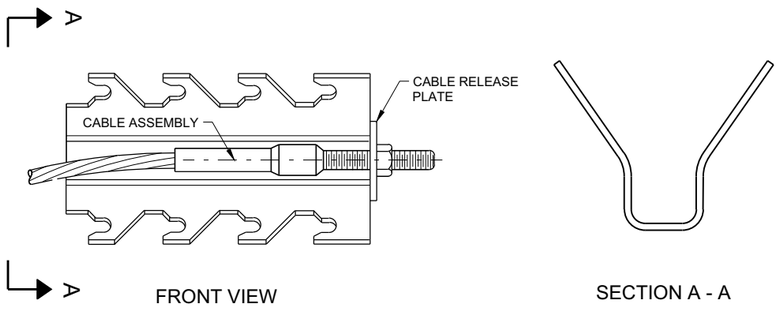
SDD 14B44 - 04a



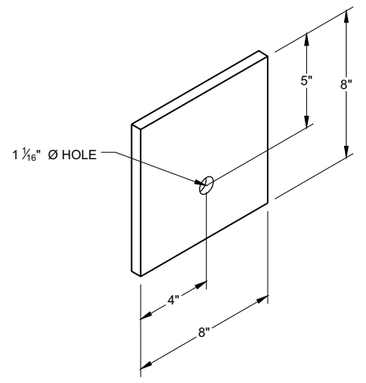
GENERIC GROUND STRUT ⑨ Ⓔ

BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUGACTURER'S DETAILS FOR MORE INFORMATION.
①	UPPER POST NO. 1 6" X 6" TUBE
②	LOWER POST NO. 1
③	WOOD CRT
④	WOOD BLOCKOUT
⑤	PIPE SLEEVE
⑥	BEARING PLATE
⑦	BCT CABLE ASSEMBLY
⑧	ANCHOR CABLE BOX
⑨	GROUND STRUT
⑩	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
⑪	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
⑫	IMPACT HEAD
⑬	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)
⑭	SOIL PLATE
⑮	UPPER POST NO. 2
⑯	LOWER POST NO. 2



GENERIC ANCHOR CABLE BOX ⑨ Ⓔ



BEARING PLATE ⑥ Ⓔ

6

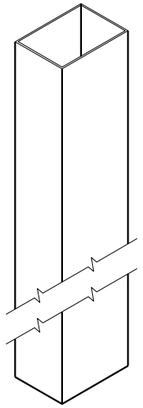
6

SDD 14B44 - 04b

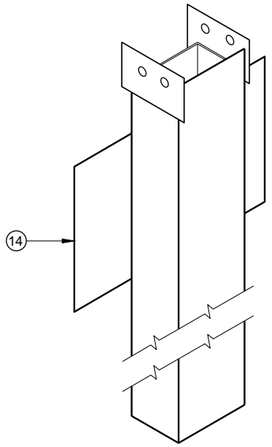
SDD 14B44 - 04b

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

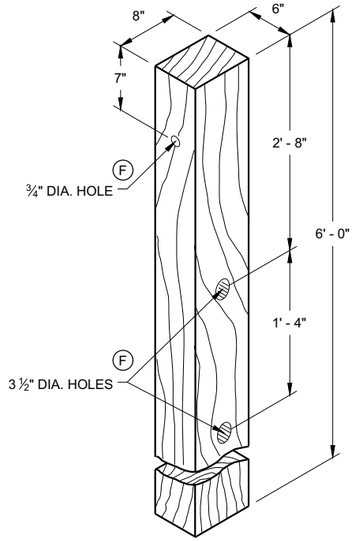
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



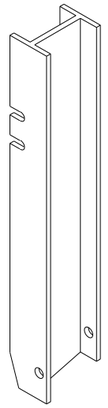
UPPER POST NO. 1 (1) (E)



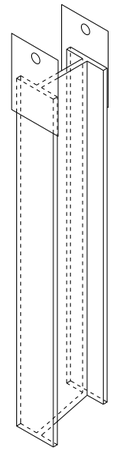
LOWER POST NO. 1 (2) (E)



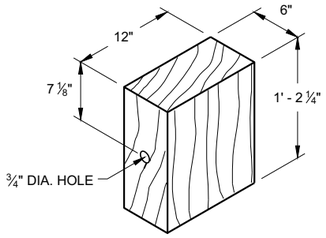
WOOD CRT POST (3) (E)
POSTS NUMBER 3-9



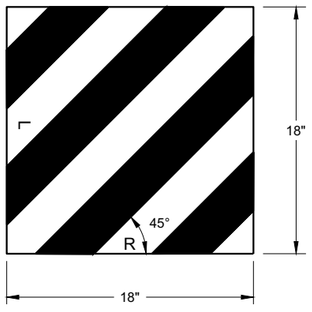
UPPER POST NO. 2 (15) (E)



LOWER POST NO. 2 (16) (E)

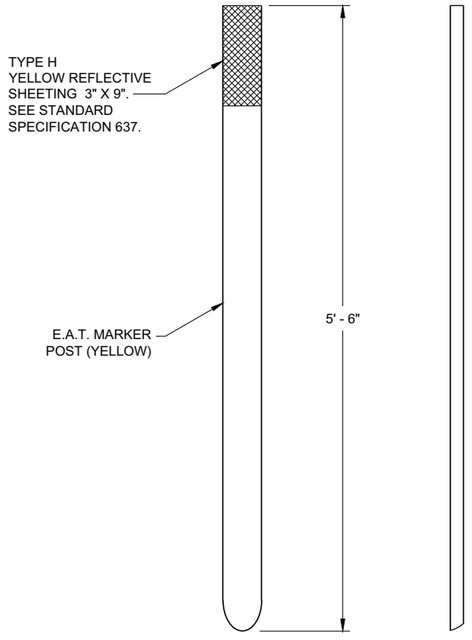


WOOD BLOCKOUT (4)
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



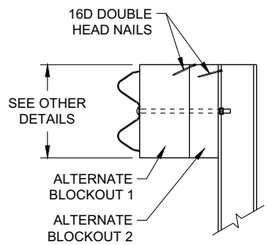
W5 - 59

REFLECTIVE SHEETING DETAIL (E)

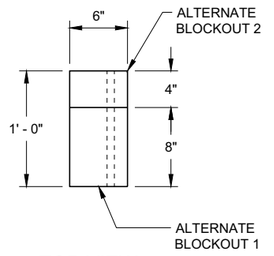


FRONT VIEW SIDE VIEW

E.A.T. MARKER POST (13)



SIDE VIEW



TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

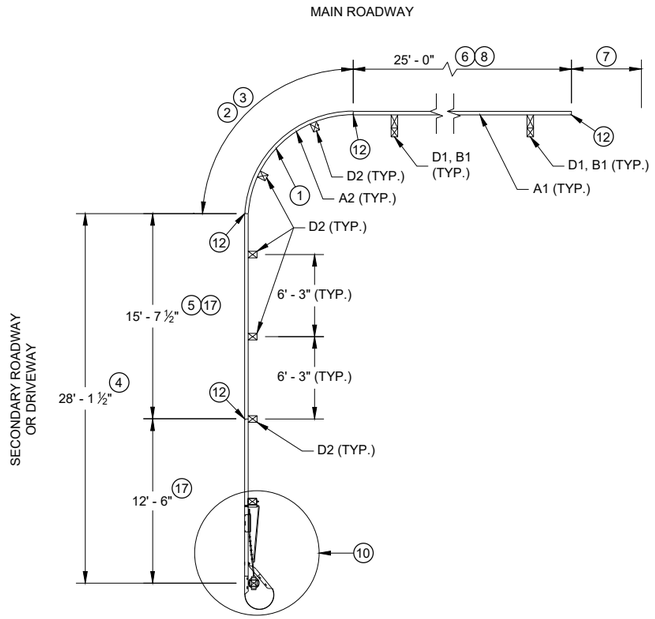
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE UNIT SUPERVISOR
FHWA

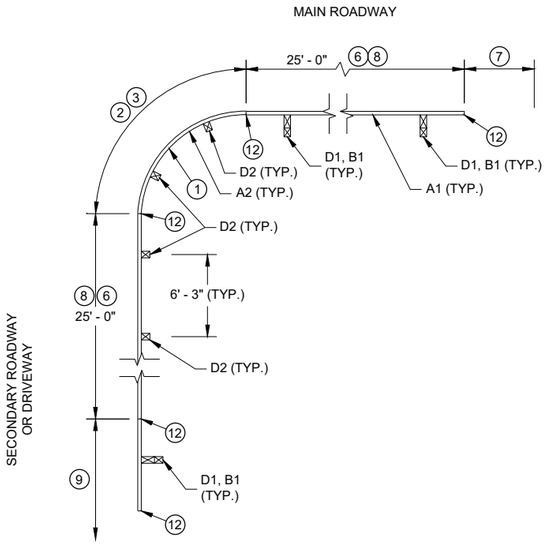
6

SDD 14B44 - 04c



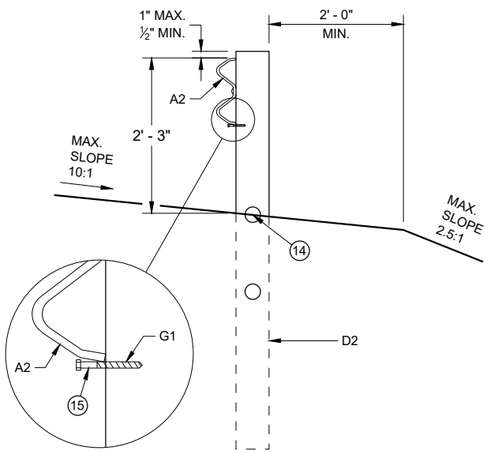
PLAN VIEW

SHORT RADIUS BEAM GUARD WITH SHORT RADIUS TERMINAL ON SECONDARY ROAD OR DRIVEWAY

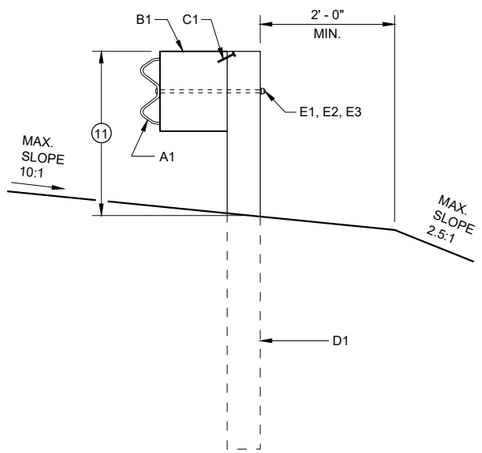


PLAN VIEW

SHORT RADIUS BEAM GUARD WITH EAT, ADDITIONAL BEAM GUARD OR TRANSITION TO RIGID BARRIER ON SECONDARY ROAD OR DRIVEWAY



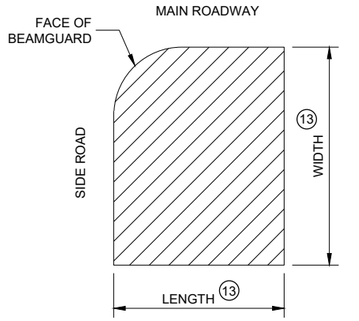
CONTROLLED RELEASE TERMINAL POST (CRT) IN RADIUS



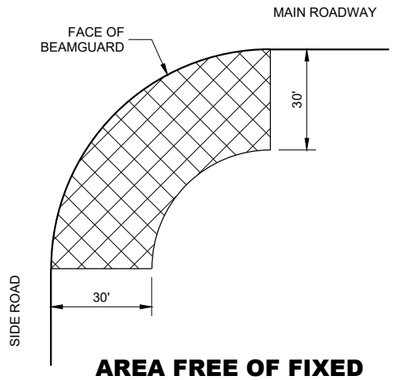
BEAM GUARD POSTS IN HEIGHT TRANSITION

TABLE FOR RADIUS OF 32' AND LESS

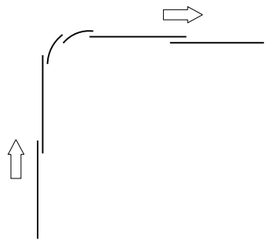
RADIUS (FT)	LENGTH (FT)	WIDTH (FT)
8	25	15
16	30	15
24	40	20
32	50	30



AREA FREE OF FIXED OBJECTS FOR RADIUS 32' AND LESS (16)



AREA FREE OF FIXED OBJECTS FOR RADIUS GREATER THAN 32'



LAP SPLICE DETAIL

GENERAL NOTES

SEE PLANS FOR OTHER BARRIER SYSTEM AND LOCATION SPECIFICS.

SEE SDD 14B42 FOR MORE INFORMATION ON BEAM GUARD INSTALLATION, PARTS, MATERIALS, AND INSTALLATION INFORMATION.

GALVANIZE PARTS AFTER FABRICATION.

WELDING TO FOLLOW CURRENT REQUIREMENTS OF THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE ANSI / AWS D1.1.

UNLESS NOTED OTHERWISE, ALL PLATES ARE FLAT AND FREE OF WARP.

UNLESS NOTED OTHERWISE, ALL EDGES ARE SMOOTH, STRAIGHT AND VERTICAL.

ALL CUTS AND HOLES, EXCEPT IN BEAM GUARD RAIL ARE TO BE MACHINED OR MACHINE FLAME CUT.

UNLESS NOTED OTHERWISE, CUT OR PROVIDE BOLTS THAT ARE ¼" TO ½" BEYOND THE NUT.

DRAWINGS ARE NOT TO SCALE.

(1) RADIUS MEASURE FROM INSIDE OF RAIL. LENGTH OF BEAM GUARD SHORT RADIUS GUARD MEASURED ALONG TRAFFIC SIDE OF RAIL. RADIUS BETWEEN 8 FEET TO 150 FEET. SEE PLAN FOR REQUIRED RADIUS. BEAM GUARD RAIL IN RADIUS IS SHOP BENT. ODD RAIL LENGTH OR FIELD CUTS MAY BE REQUIRED.

(2) CONTROLLED RELEASE TERMINAL (CRT) POSTS ARE USED IN THE RADIUS. CONTROLLED RELEASE TERMINAL (CRT) POSTS ARE SPACED 6' - 3". SEE PLAN FOR NUMBER OF CONTROLLED RELEASE (CRT) POSTS.

(3) WITHIN RADIUS BEAM GUARD RAILS ARE NOT BOLTED TO POSTS. BEAM GUARD RAIL IS RESTED ON TOP OF LAG SCREW.

(4) MINIMUM LENGTH OF BEAM GUARD ALONG SIDE ROAD OR DRIVEWAY TO INSTALL SHORT RADIUS TERMINAL. BEAM GUARD IS PAID WITH BEAM GUARD ITEM.

(5) ODD LENGTH OF BEAM GUARD REQUIRED TO INSTALL SHORT RADIUS TERMINAL.

(6) MINIMUM AMOUNT OF BEAM GUARD TO BE INSTALLED PRIOR TO TRANSITION TO RIGID BARRIER. ADDITIONAL BEAM GUARD, OR EAT. BEAM GUARD PAID FOR WITH BEAM GUARD ITEM. SEE PLANS FOR MORE DETAIL.

(7) BEAM GUARD, EAT, OR TRANSITION TO RIGID BARRIER. SEE PLAN.

(8) TOP OF BEAM GUARD BY THE RADIUS IS 27". HEIGHT OF BEAM GUARD IS 31" BY TRANSITION TO RIGID BARRIER, ADDITIONAL BEAM GUARD OR EAT.

(9) ADDITIONAL BEAM GUARD, EAT OR TRANSITION TO RIGID BARRIER. BEAM GUARD SHOWN. SEE PLAN FOR DETAILS.

(10) SHORT RADIUS TERMINAL (SEE OTHER DETAILS).

(11) HEIGHT VARIES. SEE NOTE (8) AND (8).

(12) BEAM GUARD RAIL SPLICE LOCATION. SPLICE LOCATION REQUIRES PART F1 AND F2. SEE SDD 14B42 FOR DETAILS.

(13) SEE TABLE FOR VALUES.

(14) MAXIMUM HEIGHT FOR CENTER OF HOLE IS ¾" ABOVE FINISHED GROUND ±1".

(15) DRILL POST $^{15}/_{64}$" DIA. PILOT HOLE. DO NOT HAMMER LAG SCREW INTO POST.

(16) SMALL SIGNS ON BREAKAWAY HARDWARE ARE ACCEPTABLE.

(17) TOP OF RAIL HEIGHT IS 27" WHEN USING A SHORT RADIUS TERMINAL (CRT).

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

BILL OF MATERIALS - SHORT RADIUS BEAM GUARD (MGS)

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
A1	BEAM GUARD RAIL	AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
A2	BEAM GUARD RAIL - SHOP BENT	INDICATE ON BACK OF RAIL THE RADIUS THAT RAIL WAS BENT TO. SHOP BEND RADIUS IS TO THE NEAREST FOOT. FOLLOW AASHTO M180 ON HOW TO MARK RADIUS INFORMATION.	
		AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
B1	BLOCK - WOOD	WISDOT SPEC. 614	SEE SDD 14B42
C1	NAIL	ASTM A153 HOT DIP CLASS D	
		ASTM F1667 TYPE 1 STYLE 12 (16 DOUBLE HEAD)	
D1	POST-STRONG POST-WOOD	WISDOT SPEC. 614	SEE SDD 14B42
D2	POST-CRT-WOOD	WISDOT SPEC. 614	
E1	POST BOLT	ASTM A307 GRADE A OR SAE J429 GRADE 2	5/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		AASHTO M180	
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	
E2	POST BOLT - WASHER	ASTM F436 TYPE 1 (HARDEN TYPICALLY USED WITH STEEL) OR ASTM F844 (UNHARDENED TYPICALLY WITH WOOD)	5/8" DIA.
		GALV. AASHTO M111 / ASTM A 123 OR GALV. HOT DIP. TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	
E3	POST BOLT - NUT	AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	5/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		ASTM A563 GRADE A HEAVY HEX HEAD	
F1	SPLICE BOLT	GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	5/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		ASTM A307 GRADE A OR SAE J429 GRADE 2	
		UNC	
		AASHTO M180	

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
F2	SPLICE BOLT - NUT	ASTM A563 GRADE A	5/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C/ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		UNC	
G1	LAG SCREW	ASTM A308 GRADE A ASTM A153 CLASS D	1/2" DIA. 6" LONG
H1	DELINEATOR - BEAM GUARD		SEE SDD 14B42 FOR MORE INFORMATION
H2	DELINEATION - SHEETING	YELLOW OR WHITE	
		WISDOT SPEC 637 TYPE SH	
		APPROVED PRODUCT LIST	
J1	FOUNDATION BACKFILL	STANDARD SPEC. 614	
AA1	BEAM GUARD RAIL - PUNCHED	AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
AA2	BEAM GUARD RAIL - END SECTION BUFFER	AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
BB1	BEAM GUARD RAIL - TERMINAL CONNECTOR MODIFIED	AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
CC1	SHORT RADIUS - SQUARE WASHER	AASHTO M180	
		GALV. AASHTO M111 / ASTM A123	
EE1	NAIL	ASTM A153 HOT DIP CLASS D	
		ASTM F1667 TYPE 1 STYLE 12 (16 DOUBLE HEADED)	
FF1	POST - BCT - WOOD	S4S FINISH ON 4 SIDES	
		WISDOT SPEC. 614	
GG1	POST BOLT	ASTM A307 GRADE A OR SAE J429 GRADE 2	3/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		AASHTO M180	
		GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C/ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1	
		UNC	
GG2	POST BOLT - WASHER	ASTM F436 TYPE 1 (HARDEN TYPICALLY USED WITH STEEL) OR ASTM F844 (UNHARDENED TYPICALLY WITH WOOD)	3/8" DIA.
		GALV. AASHTO M111 / ASTM A 123 OR GALV. HOT DIP. TO AASHTO M232 CLASS C/ASTM A153 CLASS C / ASTM F2329	

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

6

SDD 14B53 - 02g

BILL OF MATERIALS - SHORT RADIUS BEAM GUARD (MGS)

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
GG3	POST BOLT - NUT	ASTM A563 GRADE A	⅜" DIA. SEE 14B42 FOR GEOMETRY
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		ASTM A563 GRADE A HEAVY HEX HEAD	
HH1	SPLICE BOLT	GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	⅜" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		ASTM A307 GRADE A OR SAE J429 GRADE 2	
		UNC	
		AASHTO M180 HEAD GEOMETRY	
HH2	SPLICE BOLT - NUT	ASTM A563 GRADE A	⅜" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		UNC	
JJ1	PIPE - STEEL	ASTM A53 GALVANIZED GRADE B SCHEDULE 40	10" O.D.
JJ2	TOP PLATE	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	DIMENSIONS ⅜" X 4" X 1' - 0"
		GALV. AASHTO M111 / ASTM A123	
KK1	ANCHOR BRACKET	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	
		GALV. AASHTO M111 / ASTM A123	
KK2	ANCHOR BRACKET - BEARING PLATE	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	
		GALV. AASHTO M111 / ASTM A123	
LL1	ANCHOR BRACKET - BOLT	ASTM A307 GRADE B HEAVY HEX HEAD OR SAE J429 GRADE 2 HEAVY HEX HEAD	⅝" DIA.
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
LL2	ANCHOR BRACKET - WASHER	ASTM F436 TYPE 1 (HARDEN WASHER ONLY)	⅝" DIA.
		GALV. AASHTO M111 / ASTM A123 OR GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	
LL3	ANCHOR BRACKET - NUT	ASTM A563 GRADE A	⅝" DIA.
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		UNC	
MM1a	ANCHOR CABLE	AASHTO M30 / ASTM A741 INDEPENDENT WIRE CORE (IWRC) OR WIRE STRAND CORE (WCS), IMPROVED PLOW STEEL (IPS), 6X19, TYPE II OR IIc CLASS C ZINC COATED	
MM1b	ANCHOR CABLE	AASHTO M30 / ASTM A741 INDEPENDENT WIRE CORE (IWRC) OR WIRE STRAND CORE (WCS), IMPROVED PLOW STEEL (IPS), 6X19, TYPE II OR IIc CLASS C ZINC COATED	
MM2	ANCHOR CABLE - SWAGE FITTING	ASTM A576 GRADE 1035	
		SWAGE FITTINGS ARE TO BE FACTORY SWEDGED. WITH A BREAKING STRENGTH 40,000 LBS.	
		GALV. AASHTO M111 / ASTM A123	
		ASME B30.26 FORGED, CAST, OR DIE STAMPED WITH THE FOLLOWING INTO CONNECTION: NAME OF MANUFACTURER OR TRADEMARK OF CONNECTION'S MANUFACTURER, SIZE OR RATED LOAD, GRADE.	
MM3	WIRE ROPE CABLE CLAMPS	FF-C-450D TYPE 1 CLASS 1	¾"
		ASTM A153 HOT DIP CLASS D	
MM4	ANCHOR CABLE - SWAGE FITTING - STUD	ASTM F3125 GRADE A325 TYPE 1 OR SAE GRADE 5 OR ASTM A449 TYPE 1 HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	
NN1	ANCHOR CABLE - NUT	ASTM A563 GRADE A	1" DIA.
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		UNC	
NN2	ANCHOR CABLE - NUT - WASHER	ASTM F436 TYPE 1 (HARDEN WASHER ONLY)	1" DIA.
		GALV. AASHTO M111 / ASTM A123 OR GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

6

SDD 14B53 - 02h

BILL OF MATERIALS - SHORT RADIUS BEAM GUARD (MGS)

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
PP1	BEARING PLATE AT POST	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	
		GALV. AASHTO M111 / ASTM A123	
PP2	PIPE - STEEL	ASTM A53 GALVANIZED GRADE B SCHEDULE 40	2" DIA. x 6" LONG
QQ1	FOUNDATION TUBE	ASTM A500 GRADE B	8" X 6" X 3/16"
		GALV. AASHTO M111 / ASTM A123	
QQ2	SHORT RADIUS - FOUNDATION TUBE - ANCHOR CABLE - TUBE	ASTM A500 GRADE B	DIMENSIONS 2 1/2" X 2 1/4" X 1/4" X 8"
		GALV. AASHTO M111 / ASTM A123	
QQ3	SHORT RADIUS - SOIL TUBE - ANCHOR CABLE - TUBE - END PLATE	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	DIMENSIONS 2 1/2" X 2 1/2" X 1/4"
		GALV. AASHTO M111 / ASTM A123	
QQ4	GROUND STRUT AND YOKE - BOLT	GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	5/8 DIA.
		ASTM A307 GRADE B HEAVY HEX HEAD OR SAE J429 GRADE 2 HEAVY HEX HEAD	
		UNC	
QQ5	GROUND PLATE AND YOKE - WASHER	ASTM F436 TYPE 1 (HARDEN WASHER ONLY)	5/8 DIA.
		GALV. AASHTO M111 / ASTM A123 OR GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	
QQ6	GROUND STRUT AND YOKE - NUT	HEAVY HEX	5/8 DIA.
		UNC	
		ASTM A563 GRADE A	
		OVER TAPPED NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
SS1	SOIL PLATE	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	
		GALV. AASHTO M111 / A123	
TT1	SOIL PLATE - BOLT	ASTM A307 GRADE B HEAVY HEX HEAD OR SAE J429 GRADE 2 HEAVY HEX HEAD	5/8 DIA.
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	
TT2	SOIL PLATE - WASHER	ASTM F436 TYPE 1 (HARDEN WASHER ONLY)	5/8 DIA.
		GALV. AASHTO M111 / ASTM A123 OR GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	
TT3	SOIL PLATE - NUT	GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	5/8 DIA.
UU1	OBJECT MARKER - SHEETING	MUTCD / WISDOT OBJECT MARKER TYPE 3	PATTERN AND COLOR FOR SHEETING. SHEETING TYPE FOR MARKER.
		WISDOT SPEC 637 TYPE F	
		APPROVED PRODUCT LIST	
UU2	OBJECT MARKER - ALUMINUM PLATE	WISDOT SPEC 637 ALUMINUM PLATE	MATERIAL AND THICKNESS OF MATERIALS
UU3	OBJECT MARKER - SCREWS	STAINLESS SELF-TAPPING SCREWS	
VV1	FOUNDATION BACKFILL	WISDOT SPEC 614	

6

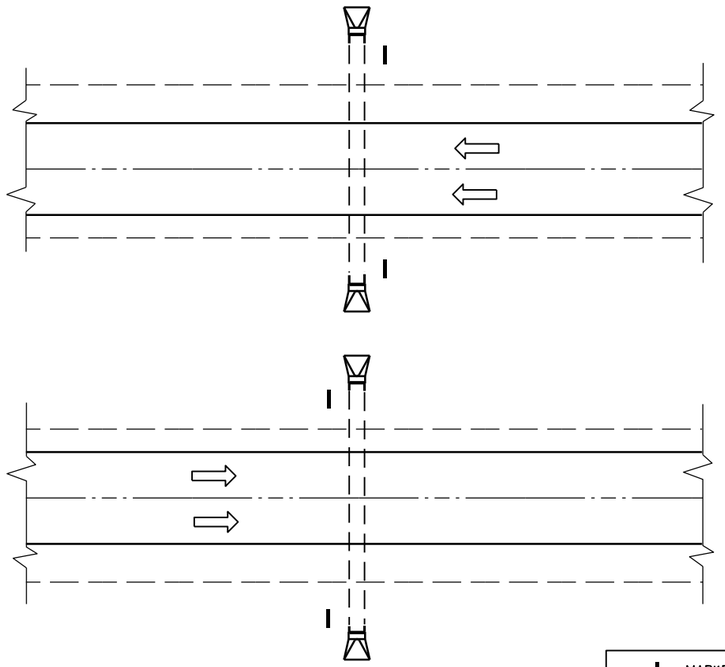
SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER

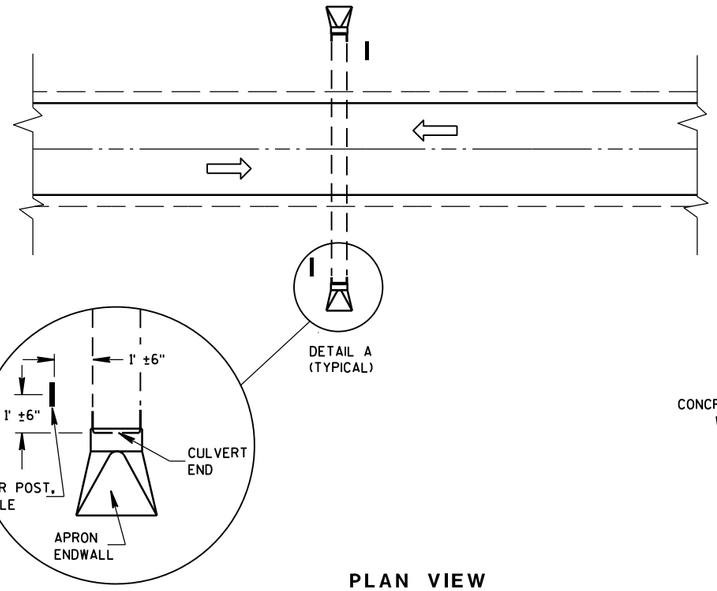
FHWA

SDD 14B53 - 02i



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

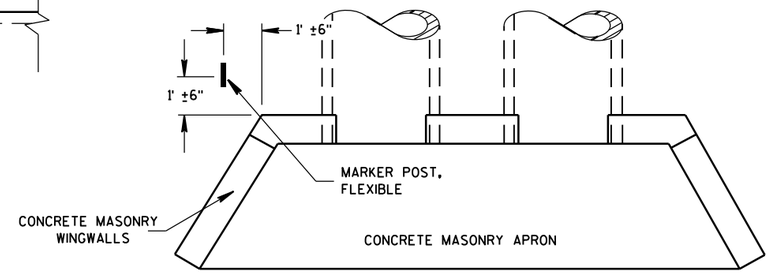
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

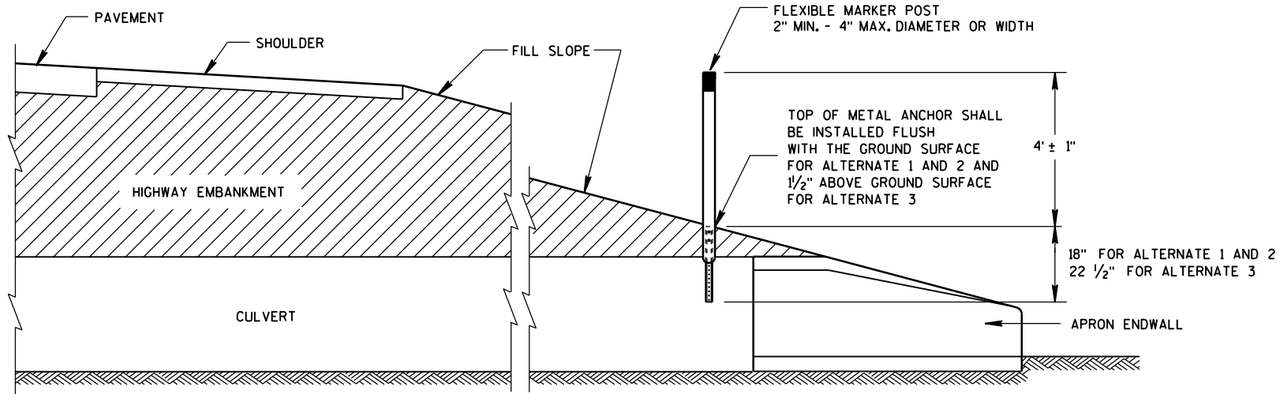
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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

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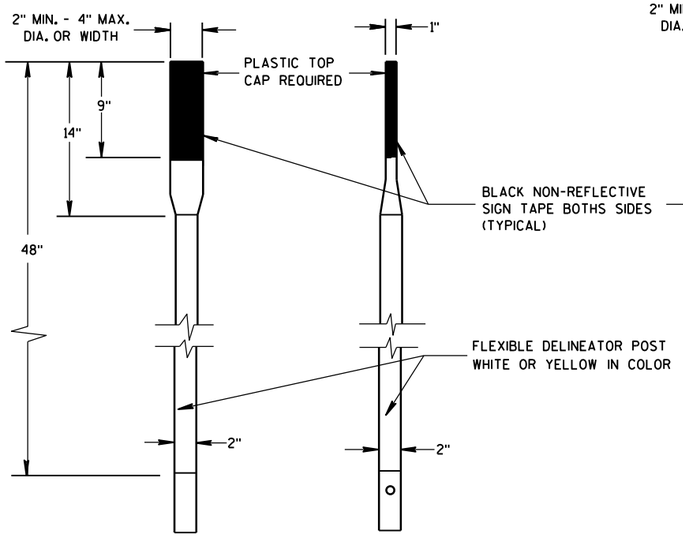
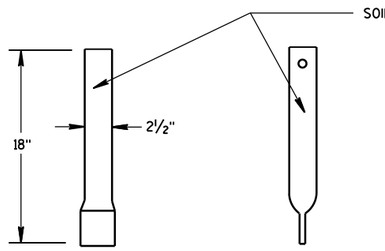
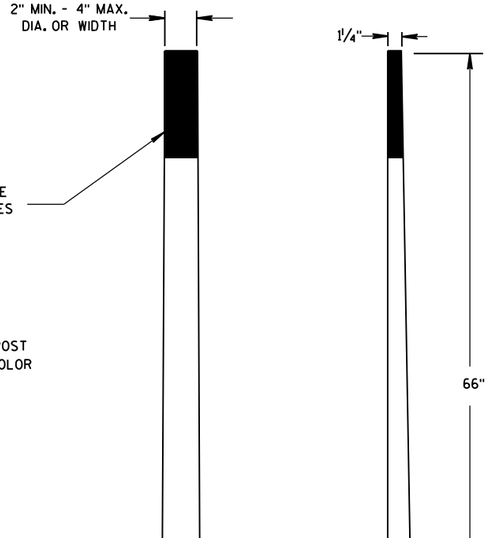
S.D.D. 15 A 3-2a





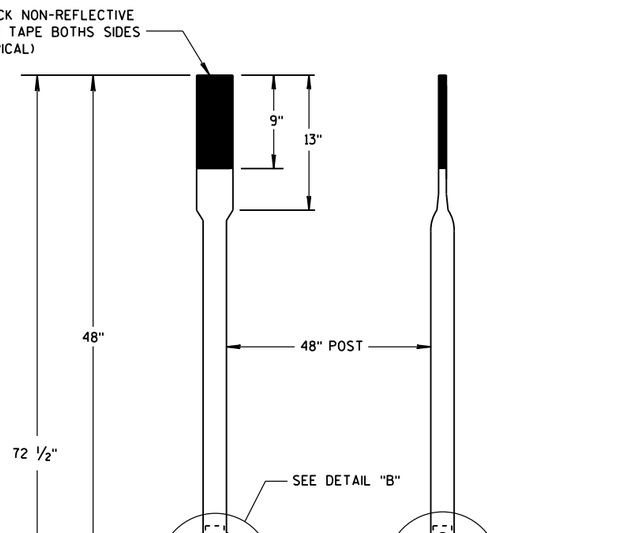
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

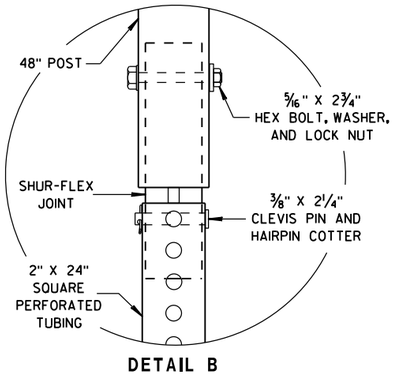
ALTERNATE 2



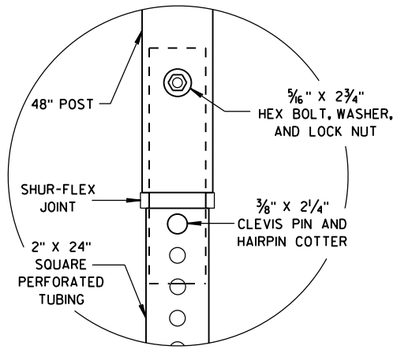
FRONT VIEW SIDE VIEW

ALTERNATE 3

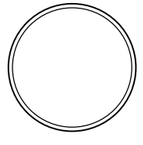
FLEXIBLE MARKER POSTS



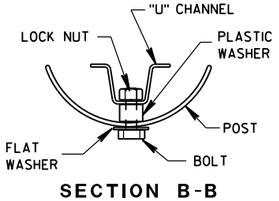
DETAIL B



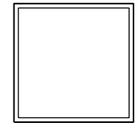
DETAIL C



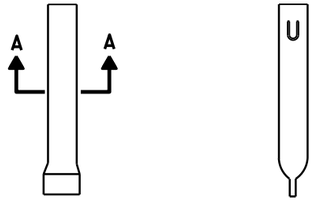
SECTION A-A



SECTION B-B

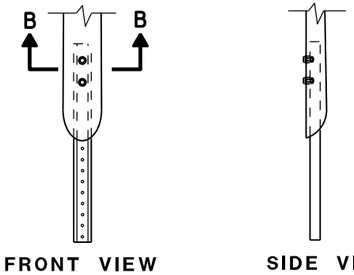


SECTION C-C



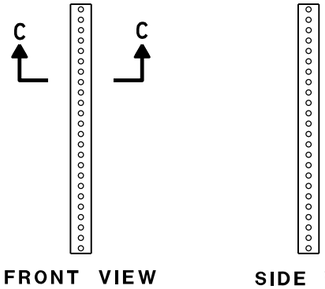
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

ALTERNATE 2



FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS

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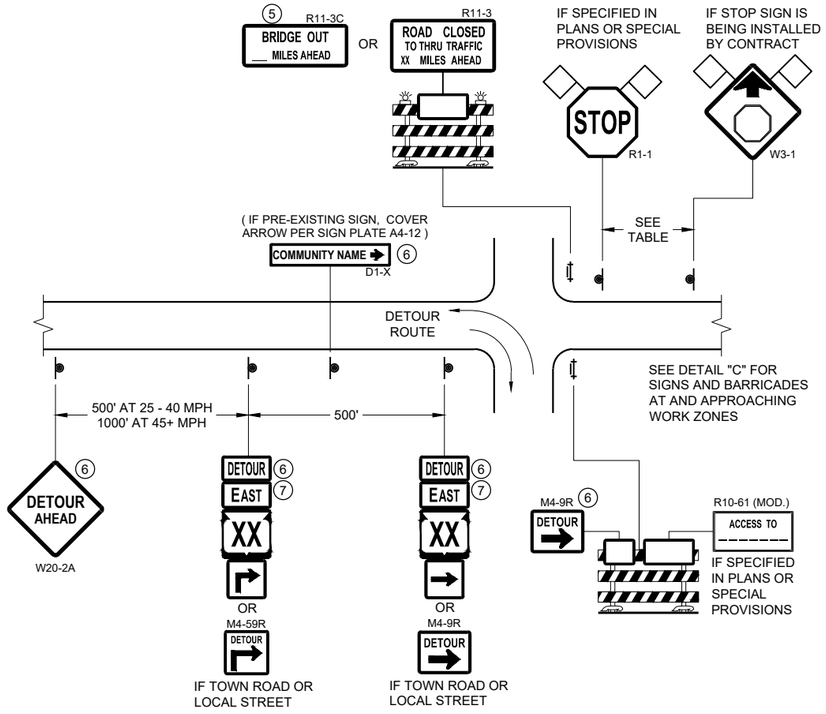
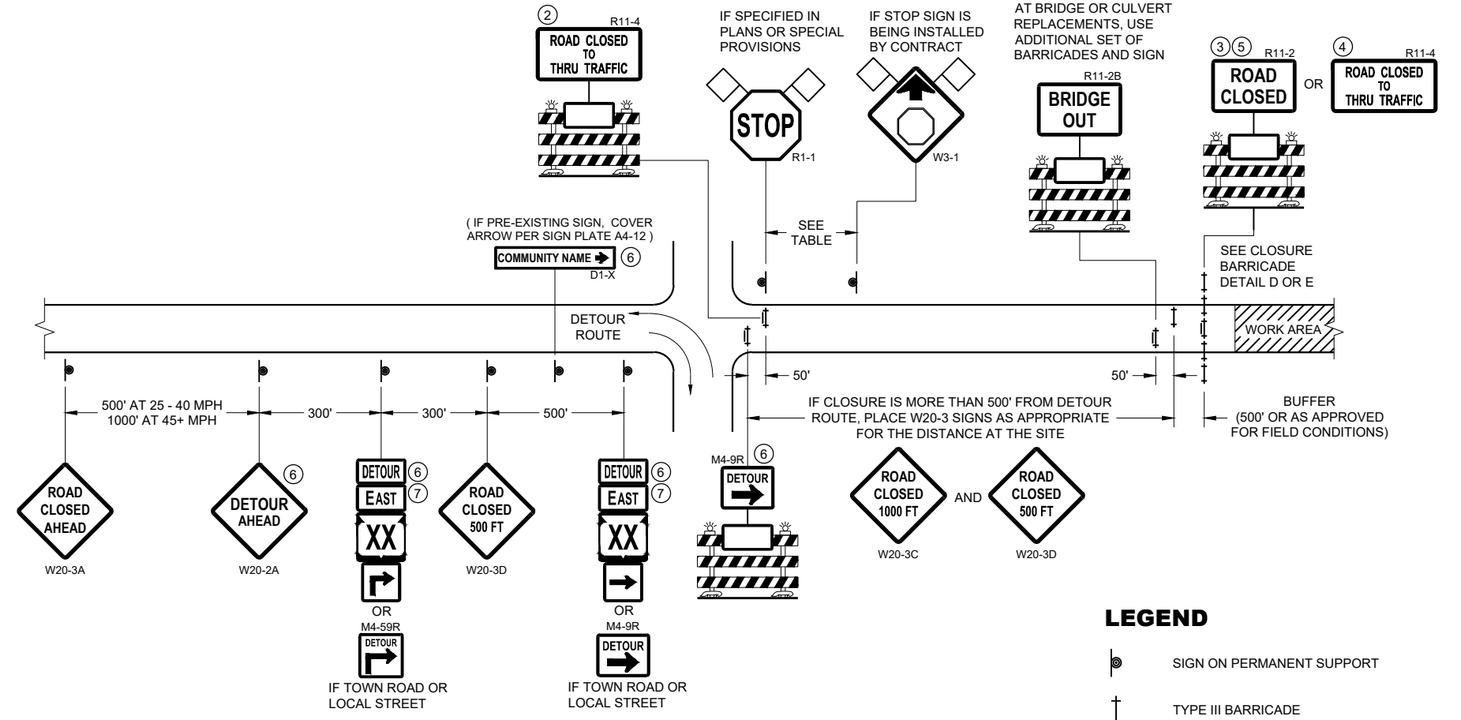
S.D.D. 15 A 3-2b



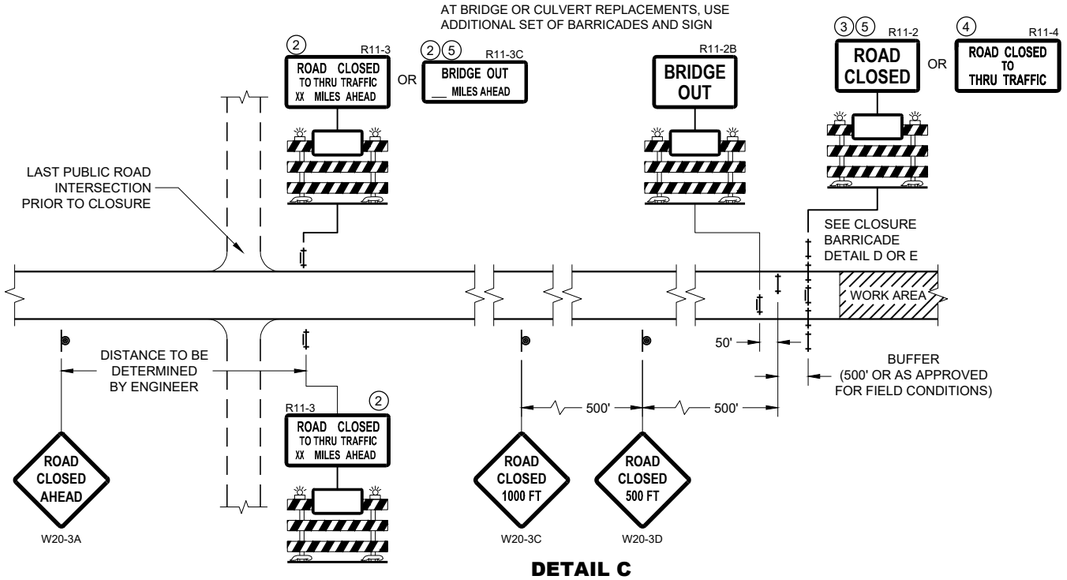
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN OR EQUAL TO ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "b"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)

DETOUR M4 - 8
EAST M3 - X
XX M1 - 4 OR XX M1 - 6 OR COUNTY X M1 - 5A
M05 - 1 OR M06 - 1

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

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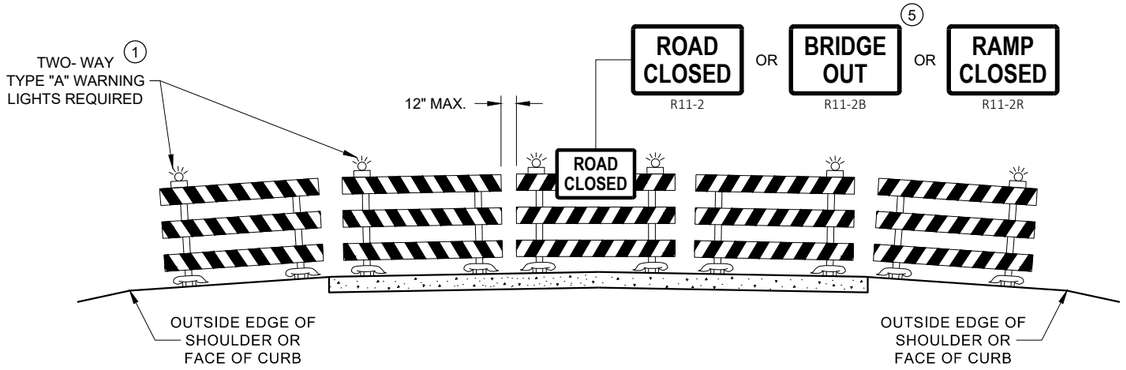
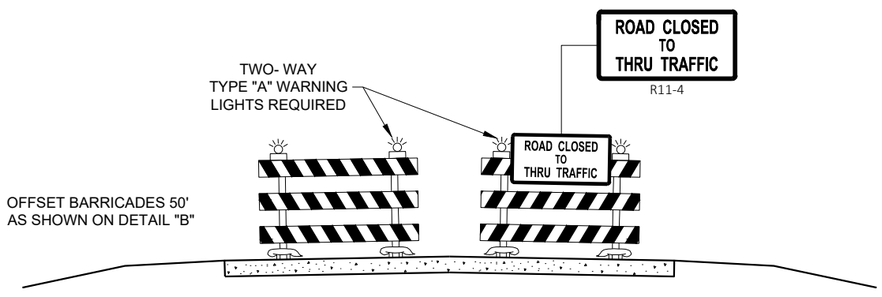
SDD 15C02 - 09a

SDD 15C02 - 09a



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

"WO" AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA

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SDD 15C02 - 09b

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SDD 15C02 - 09b

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DETOUR / EAST — M4 - 8, M3 - X
- XX — M1 - 4; XX — M1 - 6; COUNTY X — M1 - 5A
- M05 - 1; M06 - 1; M06 - 1

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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.

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

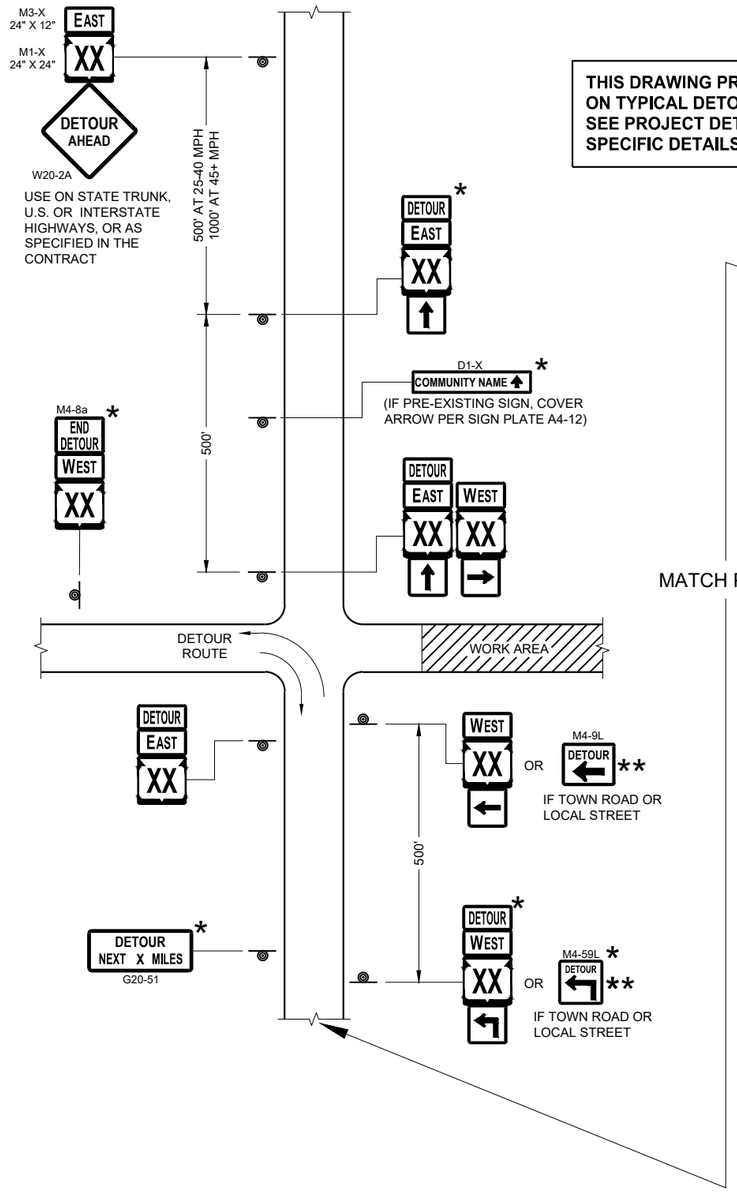
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

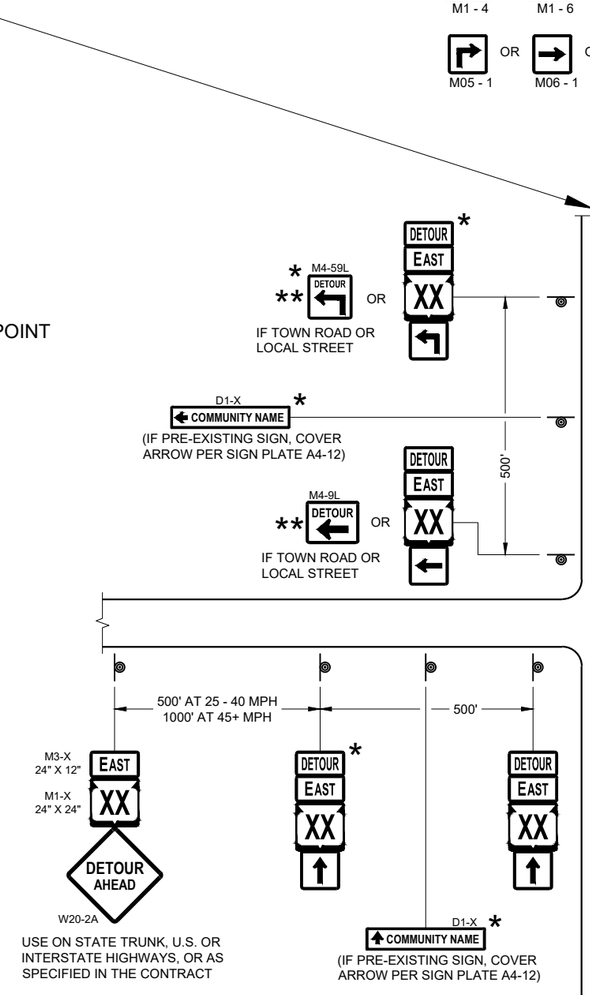
SIGN SIZES SHALL BE AS FOLLOWS:

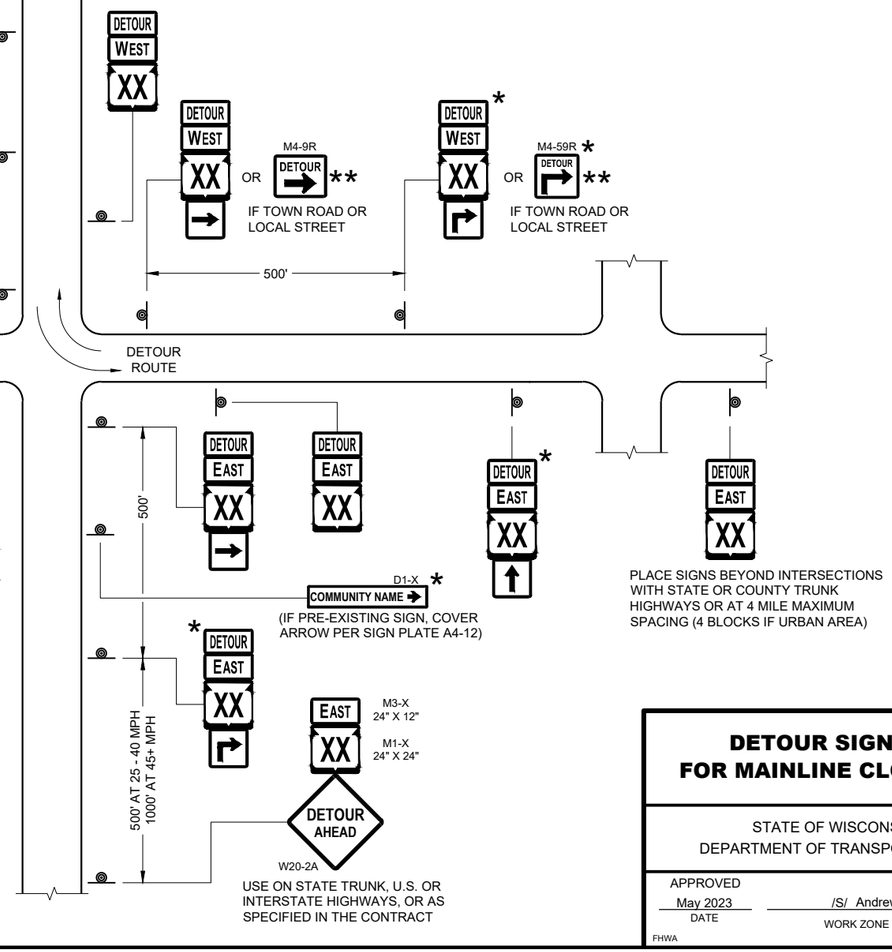
- M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-9 AND M4-59 SHALL BE 30" X 24"
- M4-8a SHALL BE 24" X 18"
- G20-51 SHALL BE 60" X 24"
- W20-2A SHALL BE 48" X 48"
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT







SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD SHEET 15C02 - SHEET "a"

DETAIL F
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

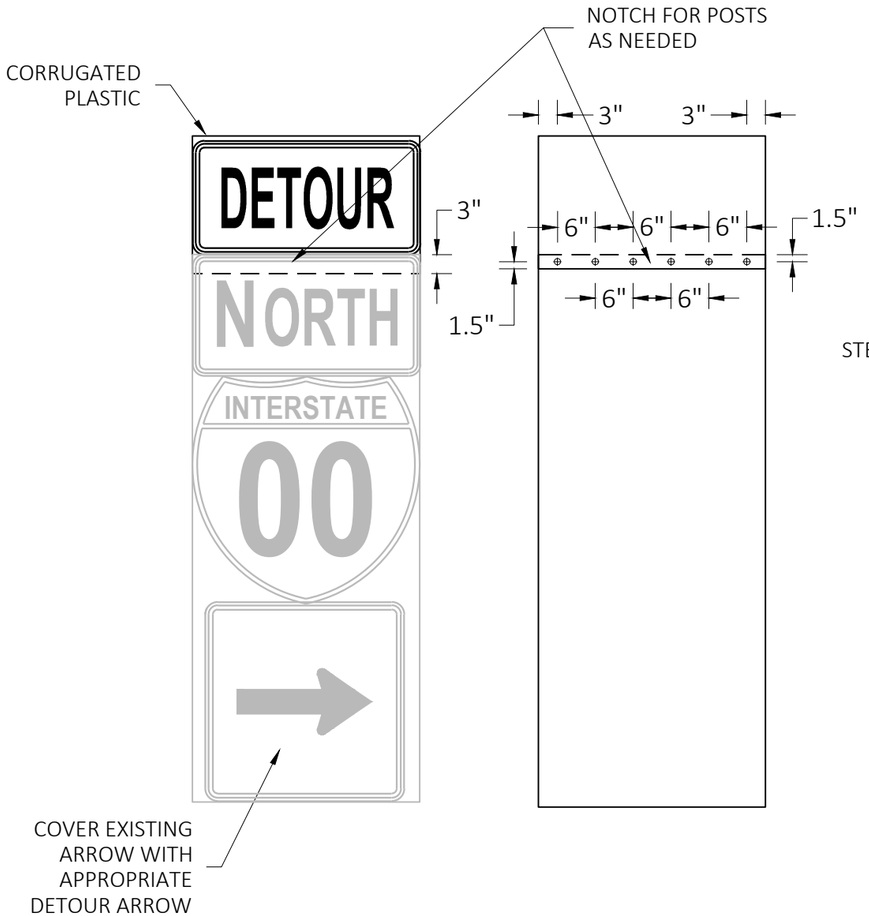
FHWA

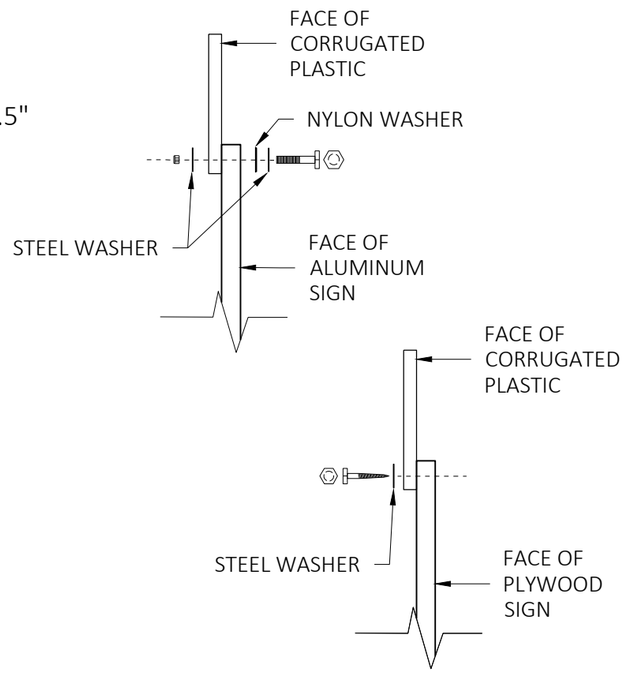
SDD 15C02 - 09c
6

FRONT SIDE

BACK SIDE

SIDE VIEW





GENERAL NOTES

CELLS OF CORRUGATED PLASTIC SHALL BE VERTICALLY ORIENTED.

PROVIDE A 0.4-INCH THICK BASE CORRUGATED PLASTIC WITH A 0.035-INCH WALL THICKNESS AND 0.4-INCH CELL SIZE.

FOR 36" WIDE SIGNS: USE 6 FASTENERS AS SHOWN.

FOR 24" WIDE SIGNS: USE 4 FASTENERS WITH EDGE SPACING AS SHOWN AND 6" SPACING BETWEEN FASTENERS.

METAL WASHERS, NUTS, BOLTS AND LAGS 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, SC3

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.

PLYWOOD SIGNS:
LAG SCREWS - 5/16" x 1"
ALUMINUM SIGNS:
MACHINE BOLTS - 5/16" x 1-1/4" LENGTH W/NUTS
WASHERS:
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

6

6

SDD 15C02-09h

SDD 15C02-09h

MODIFIED ROUTE ASSEMBLY FOR DETOUR SIGNING

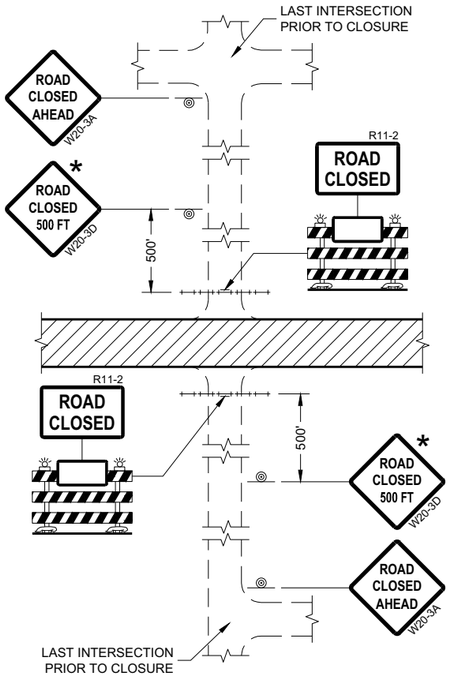
MODIFIED ROUTE ASSEMBLY FOR DETOUR SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

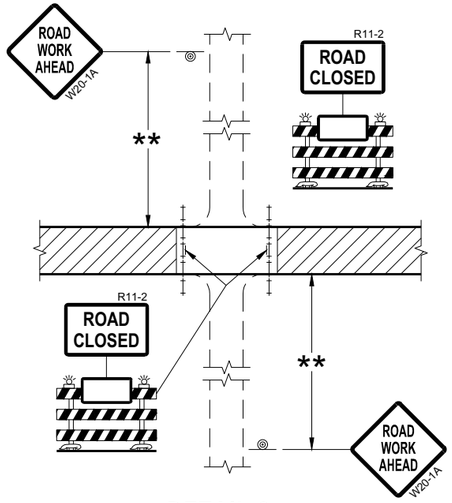
APPROVED
May 2023
DATE

/S/ Andrew Heidtke
ROADWAY STANDARDS DEVEL ENGINEER

FHWA



DETAIL 1
(NO ACCESS TO PROJECT)



DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE (500 FEET DESIRABLE) TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

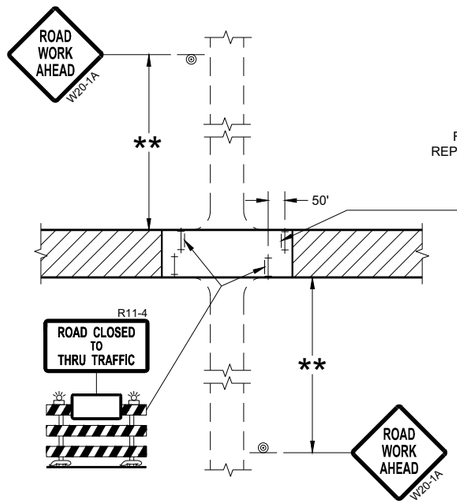
TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

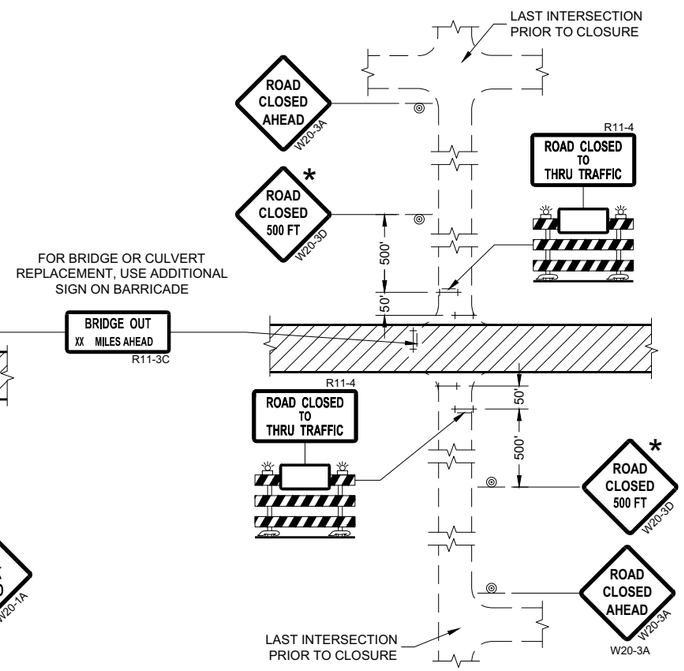
ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

* OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FEET OR LESS FROM THE WORK ZONE.

** 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.



DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED.
CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)



DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

SDD 15C03 - 05

SDD 15C03 - 05

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.

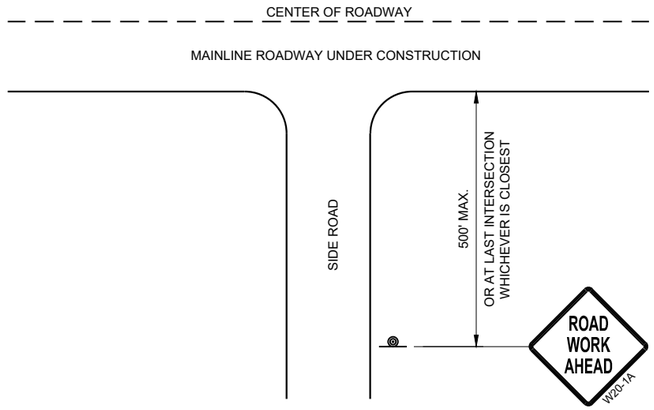
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN 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 REESTABLISHED.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS

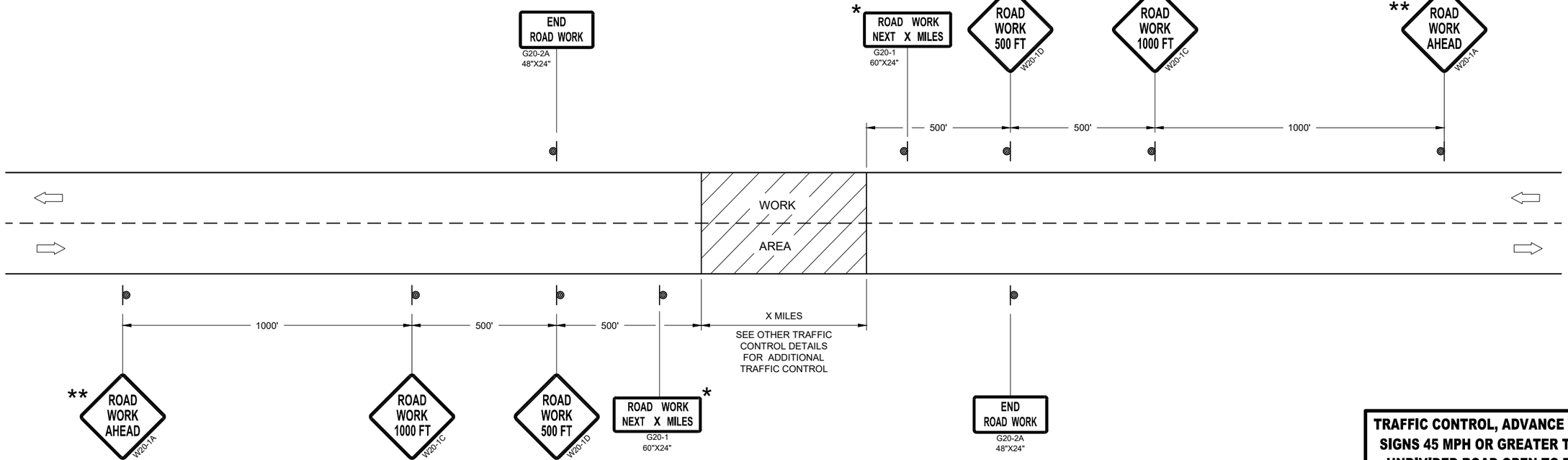
** PLACE AN ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45MPH OR GREATER

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

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SDD 15C04 - 05

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

(2) MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

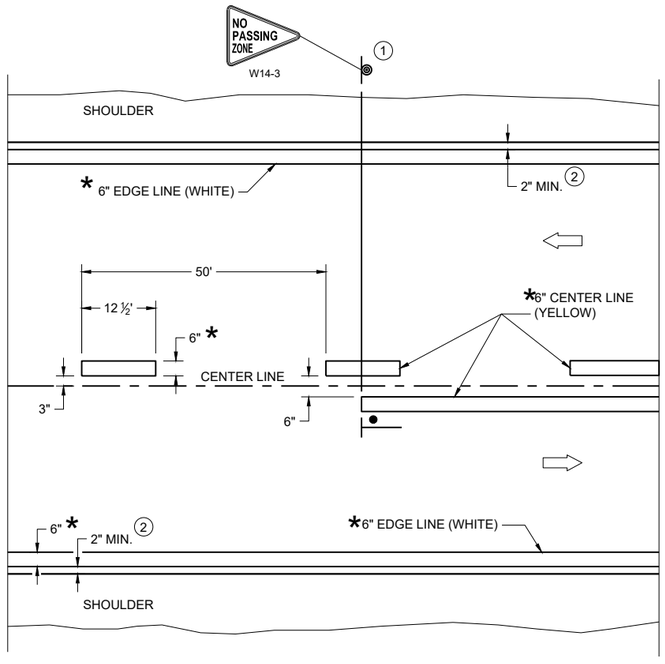
LEGEND

"T" MARKING

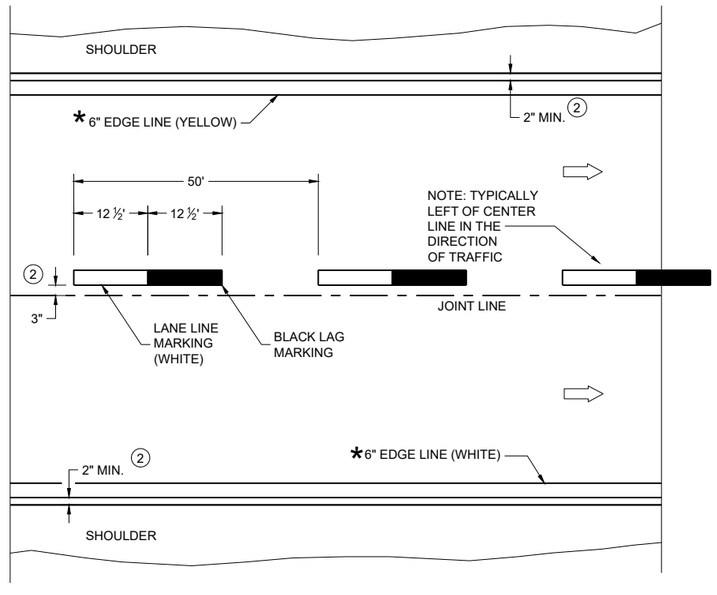
SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Jeannie Silver — Statewide Pavement Marking Engineer
FHWA

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SDD 15C08-23a

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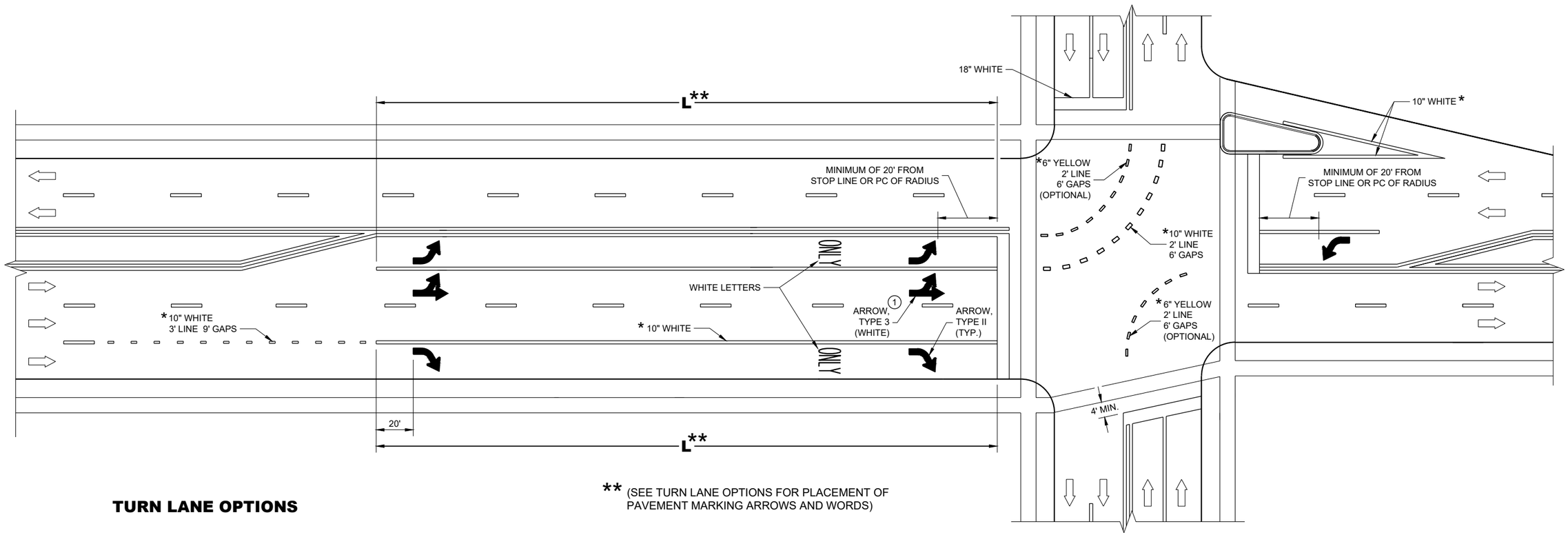
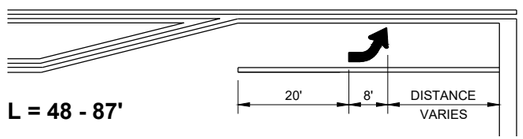
SDD 15C08-23a



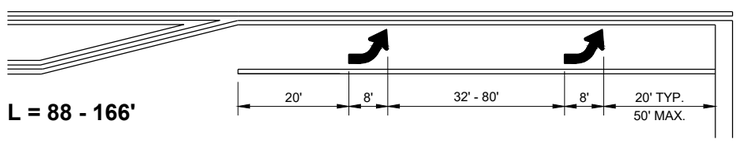
** (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

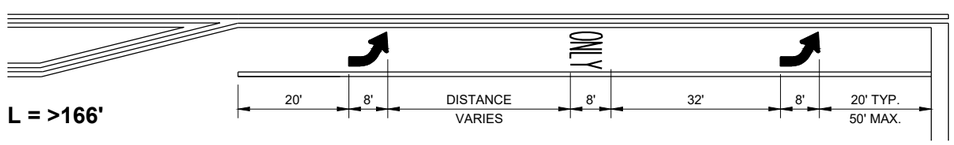
LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48 - 87'



L = 88 - 166'



L = >166'

GENERAL NOTES

(1) QUANTITY AND LOCATION OF TYPE 3 ARROWS ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION IN THE SAME DIRECTION OF TRAVEL, THE ARROWS AND "ONLY" MARKING MAY BE ELIMINATED.

DIRECTION OF TRAFFIC

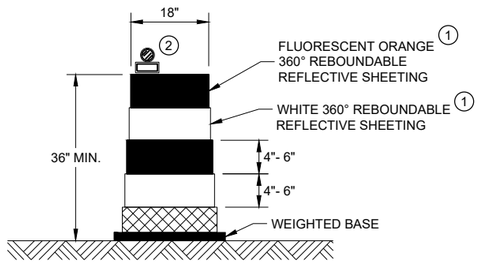
L = LENGTH OF TURN BAY

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

PAVEMENT MARKING (TURN LANES)

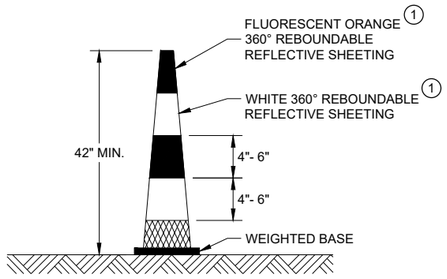
GENERAL NOTES

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.



DRUM

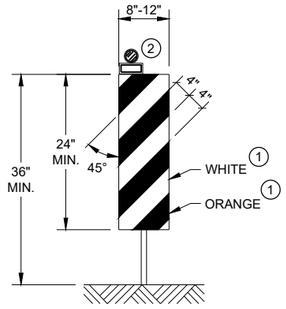
BALLAST WIDTHS
RANGE FROM 24"-36"



42" CONE

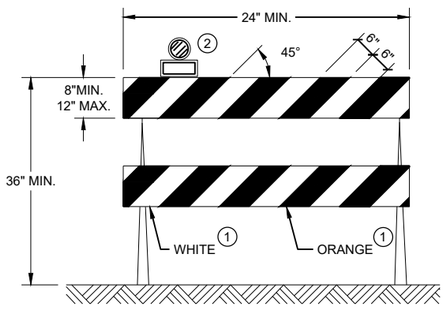
DO NOT USE IN TAPERS
½ SPACING OF DRUMS

BALLAST WIDTHS
RANGE FROM 14"-20"



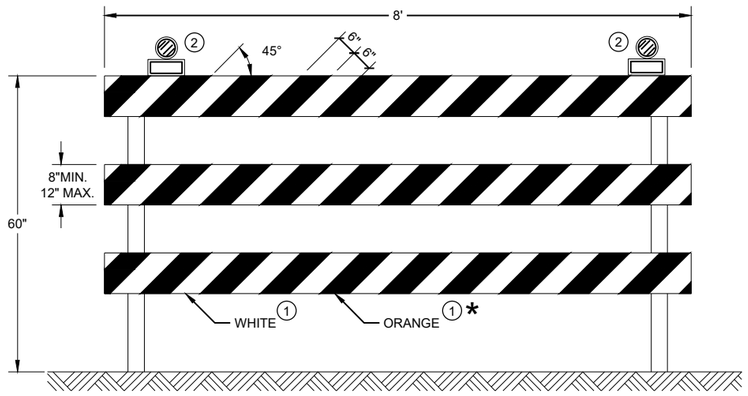
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III 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
November 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15C11 - 10b

6

SDD 15C11 - 10b

LEGEND

V1 LEAD VEHICLE

V2 MARKING VEHICLE

V3 SHADOW VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

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 AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC.

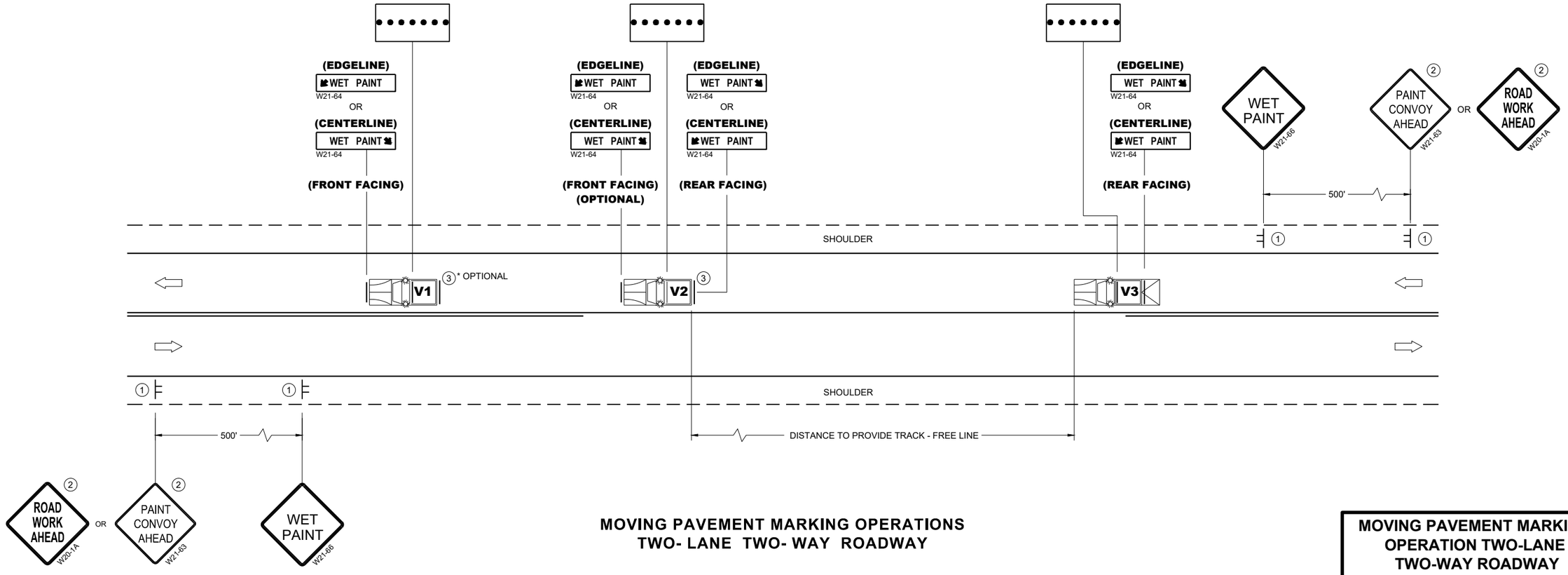
CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL BE A MINIMUM OF 28" FOR WET PAVEMENT MARKING .

(1) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES AND AFTER EVERY MAJOR INTERSECTION.

(2) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.

(3) V1 AND V2 CAN BE SWITCHED SO THAT THE MARKER IS THE LEAD VEHICLE.



MOVING PAVEMENT MARKING OPERATIONS
TWO- LANE TWO- WAY ROADWAY

MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

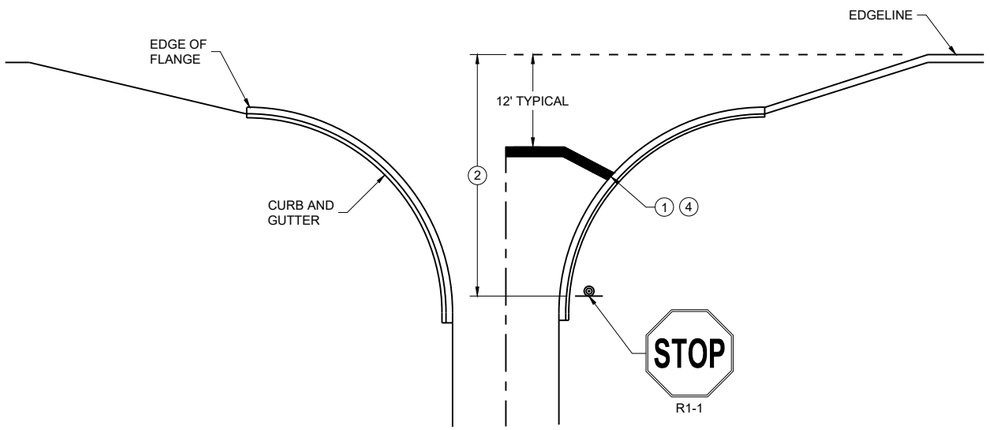
APPROVED
March 2024
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER
FHWA

6
SDD 15C19-9a

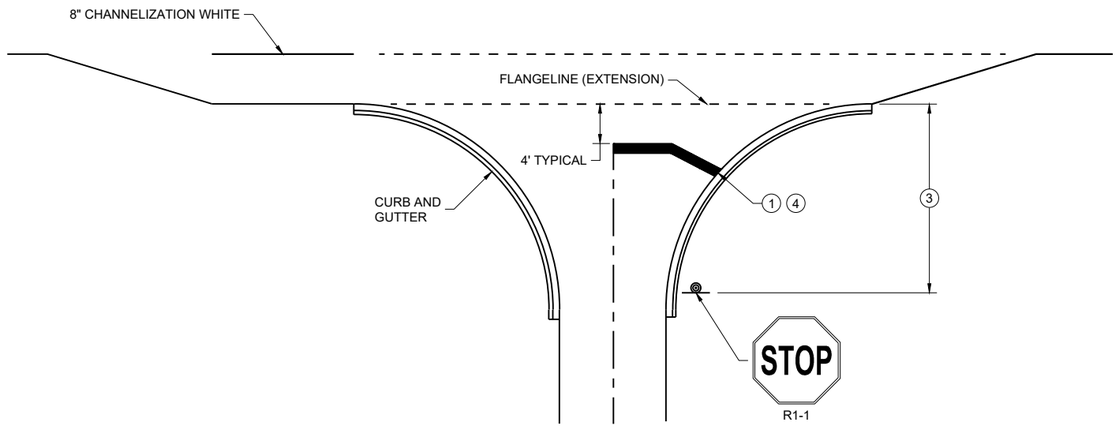
GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

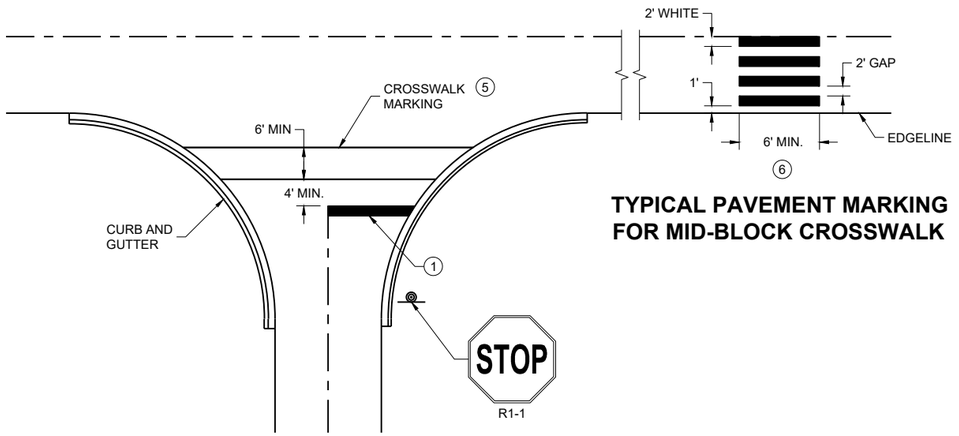
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGE LINE EXTENSION.
4. MOVE CLOSER TO THE EDGE OF TRAVEL LINE AS NEEDED FOR VISIBILITY AND SIGHT LINES (NO CLOSER THAN 4 FEET).
5. LADDER BAR CROSSWALKS SHOULD ONLY BE USED FOR MID BLOCK CROSSINGS. USE 2 - 6" TRANSVERSE LINES.
6. POSTED SPEED LIMITS OF 40 MPH OR GREATER USE A MINIMUM WIDTH OF 8' FOR MIDBLOCK CROSSWALKS



TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

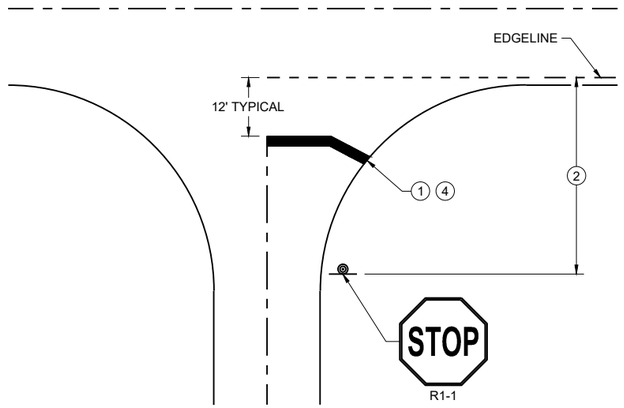


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDE ROADS WITH RIGHT TURN LANE



TYPICAL PAVEMENT MARKING FOR MID-BLOCK CROSSWALK 5

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDE ROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

March 2024 — DATE

/S/ Matthew Rauch — STATE SIGNING AND MARKING ENGINEER

FHWA

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SDD 15C33-05

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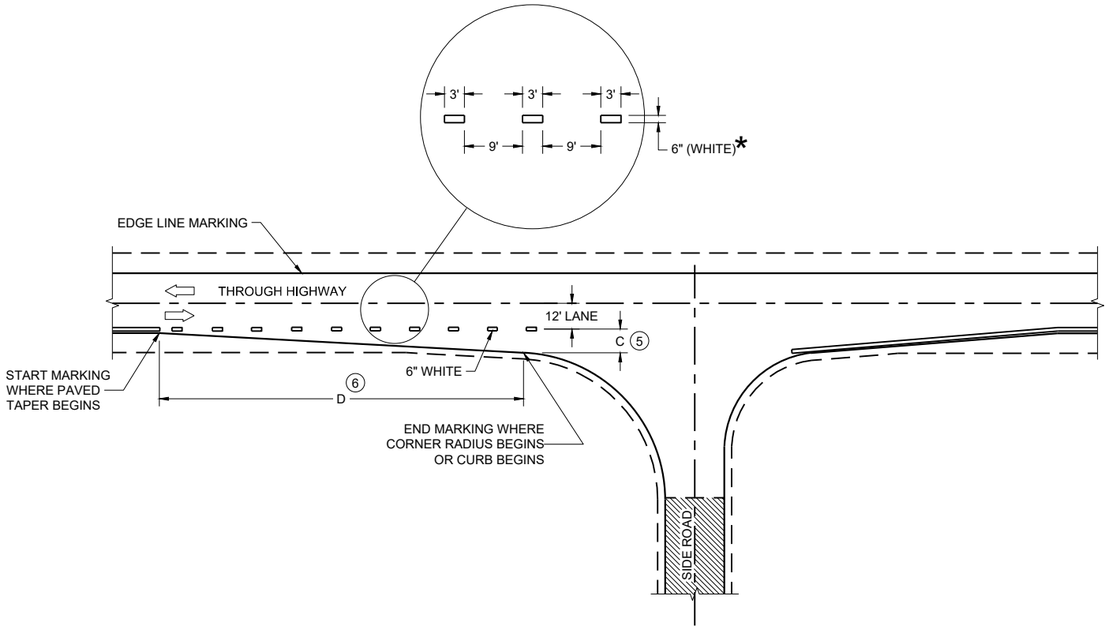
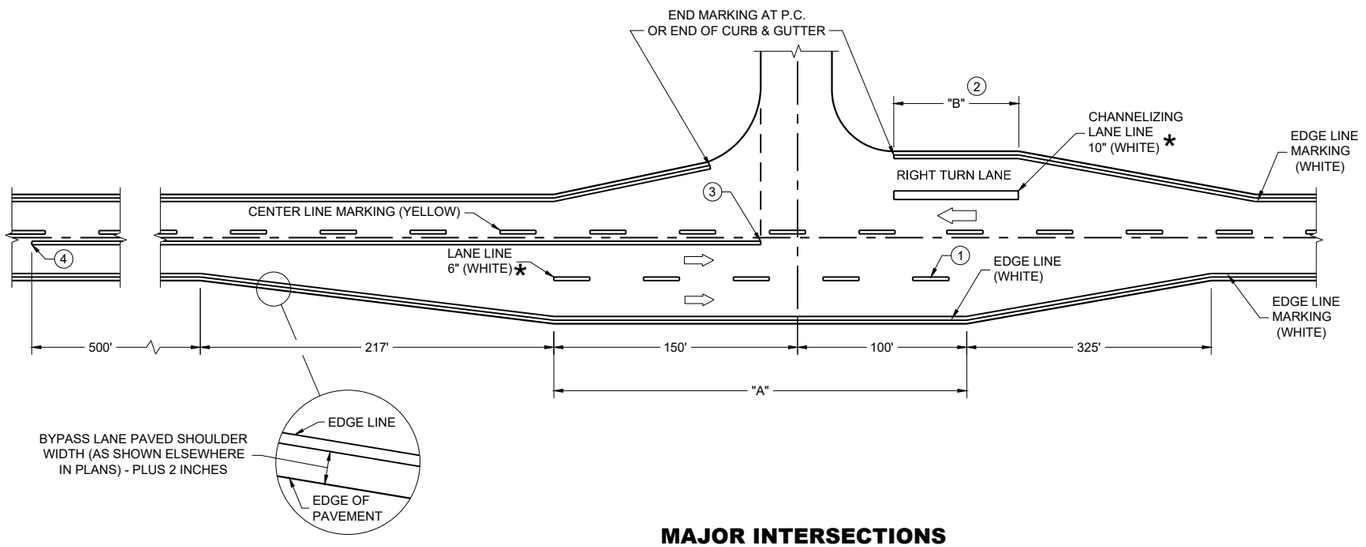
SDD 15C33-05



MINOR INTERSECTION



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

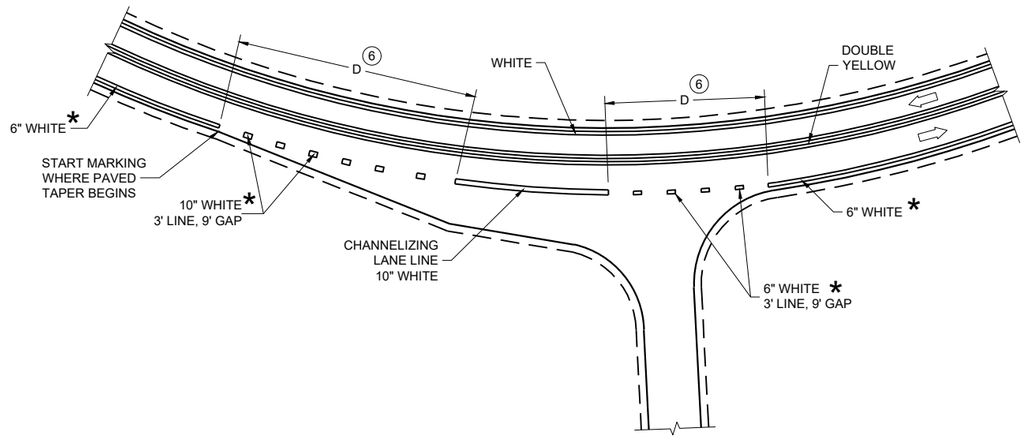
GENERAL NOTES

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.
5. WHEN DISTANCE "C" IS LESS THAN 4 FEET, OMIT DOTTED EXTENSION.
6. WHEN DISTANCE "D" IS LESS THAN 50 FEET, OMIT DOTTED EXTENSION.

LEGEND

DIRECTION OF TRAVEL



INTERSECTION ON OUTSIDE OF CURVE

PAVEMENT MARKING (INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

LEGEND

SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL DRUM

DIRECTION OF TRAFFIC

WORK ZONE

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

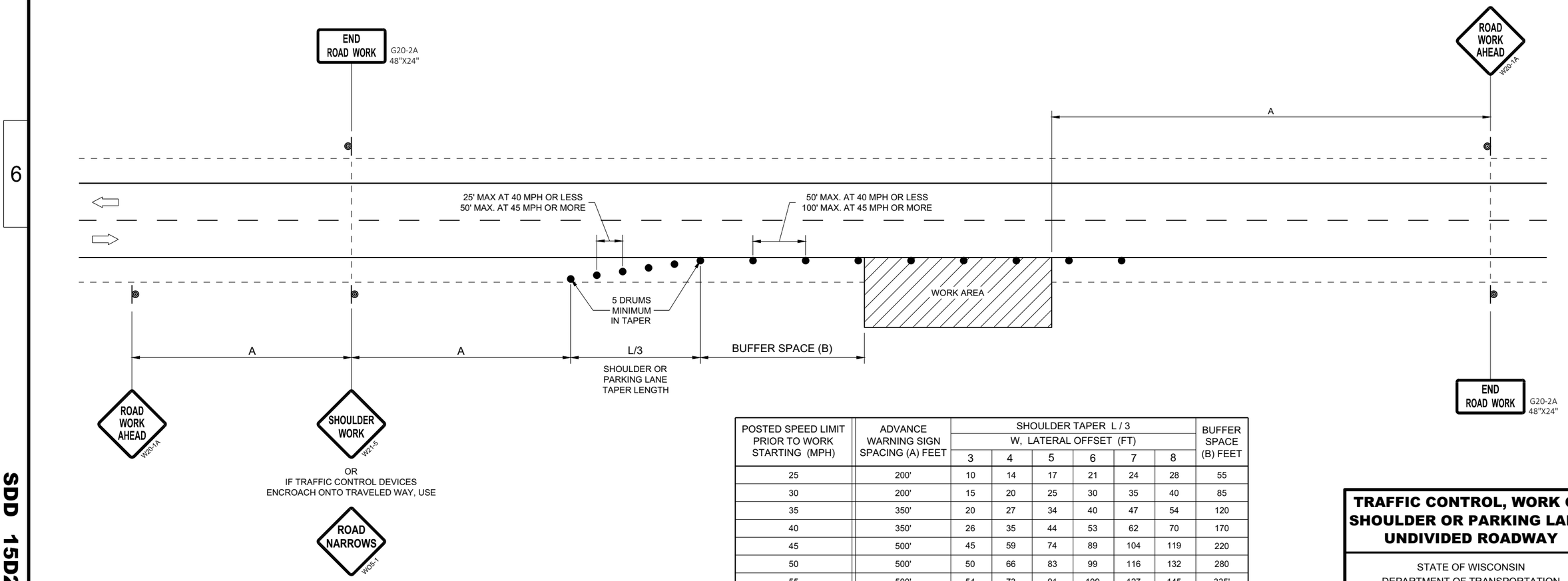
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

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

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.



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHOULDER TAPER L / 3 W, LATERAL OFFSET (FT)						BUFFER SPACE (B) FEET
		3	4	5	6	7	8	
25	200'	10	14	17	21	24	28	55
30	200'	15	20	25	30	35	40	85
35	350'	20	27	34	40	47	54	120
40	350'	26	35	44	53	62	70	170
45	500'	45	59	74	89	104	119	220
50	500'	50	66	83	99	116	132	280
55	500'	54	73	91	109	127	145	335'

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020
DATE

/S/ Andrew Heidtke
STATEWIDE WORK ZONE T SAFETY ENGINEER

FHWA

6

SDD 15D28 - 04

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET
0-30	200'
35-40	350'
45-55	500'

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

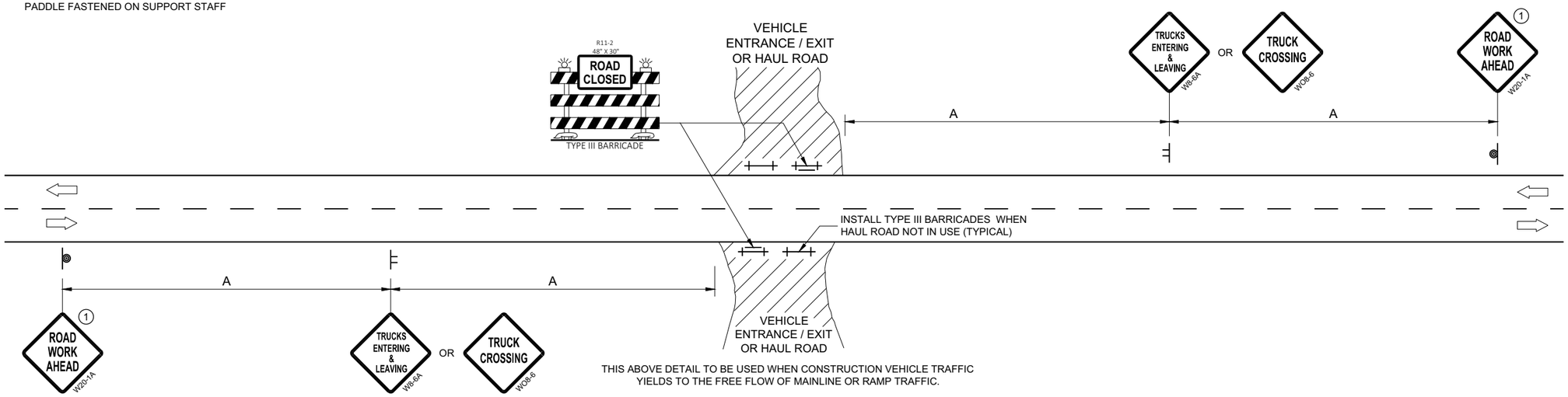
WARNING SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

WHEN ACTIVITY REFLECTED BY THE SIGN IS NOT CURRENTLY TAKING PLACE, THE HIGHWAY SHALL BE RESTORED TO NORMAL CONDITION AND THE SIGNS SHALL BE REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC.

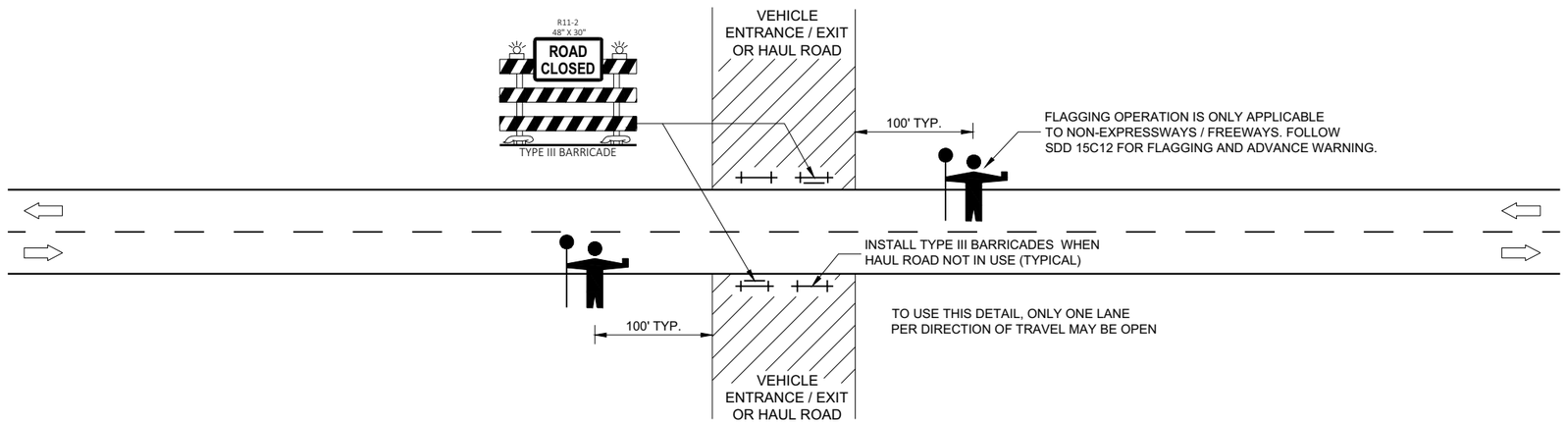
WHEN A SIDE ROAD OR RAMP INTERSECTS WITHIN THE ADVANCE SIGNING AREA, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND / OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

PLACE SIGNS ON BOTH SIDES IF USED ON DIVIDED HIGHWAY.

(1) THESE SIGNS ARE TO BE USED ONLY WHEN VEHICLE ENTRANCE / EXIT CONDITIONS ARE SEPARATED BY MORE THAN TWO MILES FROM PREVIOUS WORK AREA OR SIGNING OR AS DIRECTED BY THE ENGINEER.



THIS ABOVE DETAIL TO BE USED WHEN CONSTRUCTION VEHICLE TRAFFIC YIELDS TO THE FREE FLOW OF MAINLINE OR RAMP TRAFFIC.



TO USE THIS DETAIL, ONLY ONE LANE PER DIRECTION OF TRAVEL MAY BE OPEN

THIS DETAIL TO BE USED WHEN CONSTRUCTION WORK INCLUDING TRUCKING ACTIVITY REQUIRES MAINLINE TRAFFIC TO BE TEMPORARILY STOPPED IN ONE OR BOTH DIRECTIONS. DELAY TO HIGHWAY TRAFFIC SHALL BE MINIMIZED.

TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

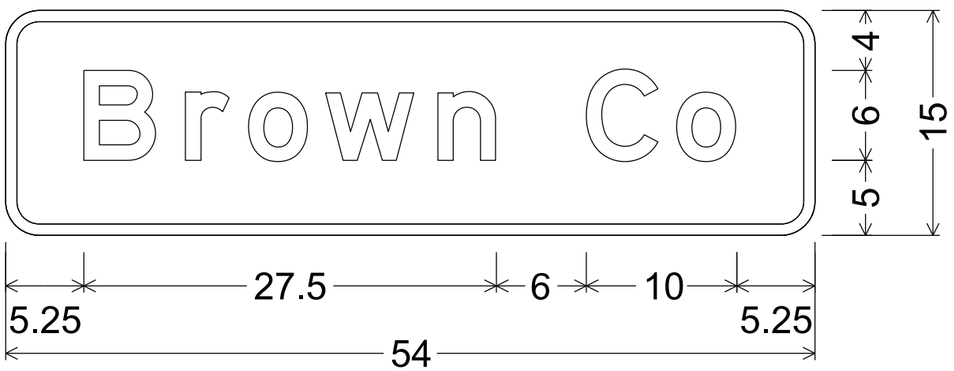
6

SDD 15D29 - 06

NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E

I2-2; 2.250" Radius, 0.750" Border



I2-2; 2.250" Radius, 0.750" Border

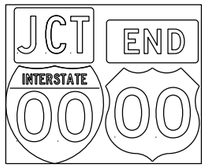
7

7

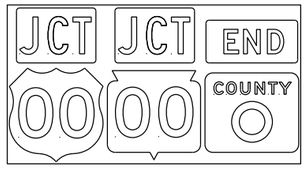
PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	PERMANENT SIGNING	SHEET NO: 141	E

TYPICAL ASSEMBLIES

J1-1



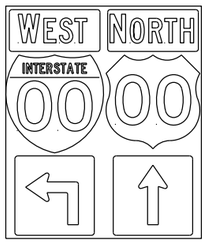
J1-2



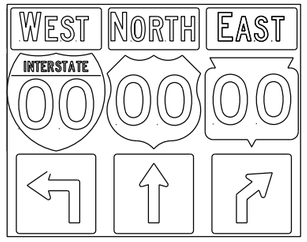
J1-3

JR1-1

J2-1

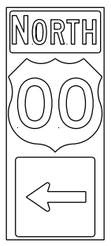


J2-2

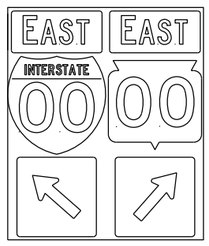


J2-3

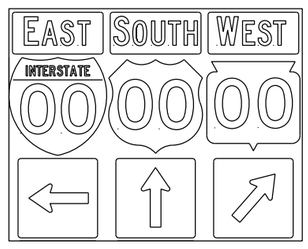
JV
(Typical Vertical J-Assembly
See Note 10 and 11)



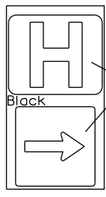
J3-1



J3-2

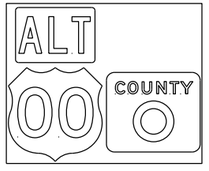


J3-3

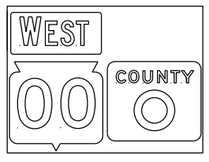


JH-1

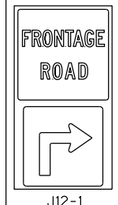
J4-1



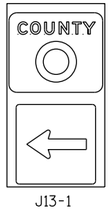
J4-2



J4-2



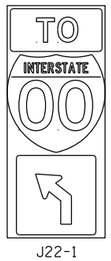
J12-1



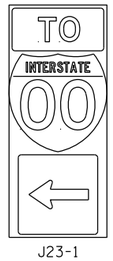
J13-1

J32-1

J33-1



J22-1



J23-1

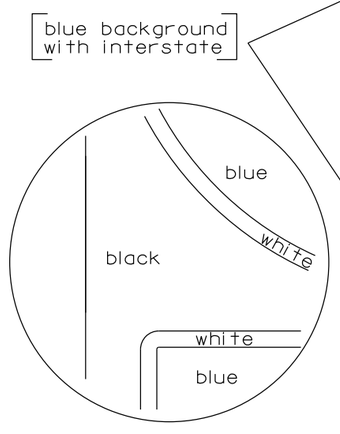
JR13-1

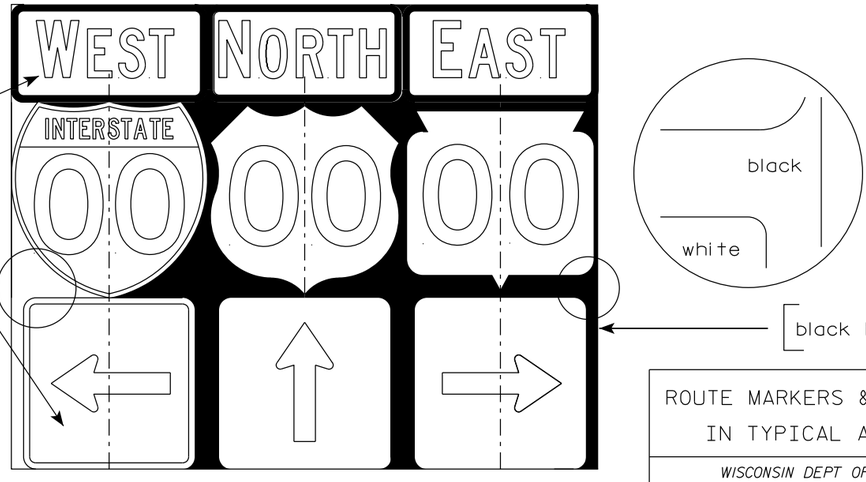
JR23-1

JR99-1

NOTES

1. Signs are Type II - Type H Reflective
2. Color:
   Background - Black Non-reflective
   Message - see Note 4
3. Message Series - See Note 4
4. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
5. 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.
6. 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.
7. 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.
8. 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.
9. All Vertical J Assemblies are given a Sign Code of JV
10. For JV Assemblies that have a mixture of Interstate and Non-Interstate shields, arrows and cardinals shall be white on blue.
11. For JV Assemblies that have a mixture of Non-Interstate and Auto-Tour shields, arrows and cardinals shall be black on white.





ROUTE MARKERS & COMPONENTS IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

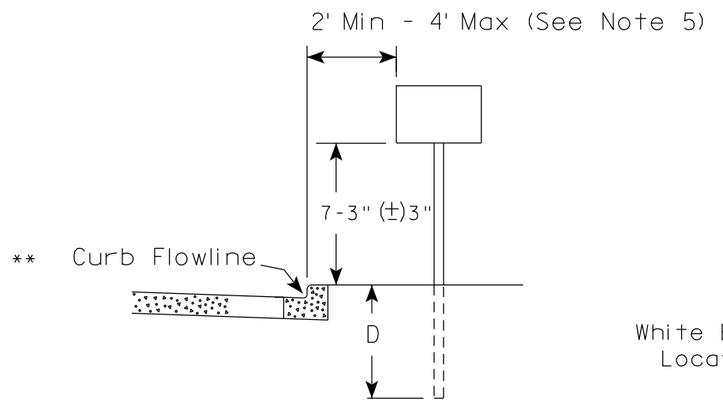
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/23 PLATE NO. A2-1S.10

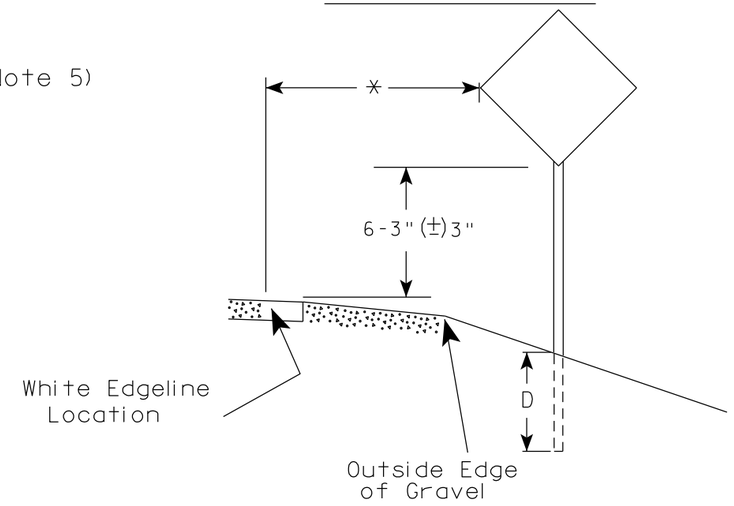
PROJECT NO:

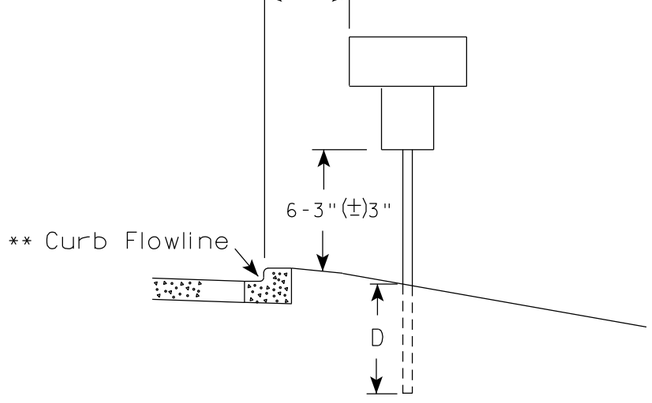
SHEET NO: 142 E

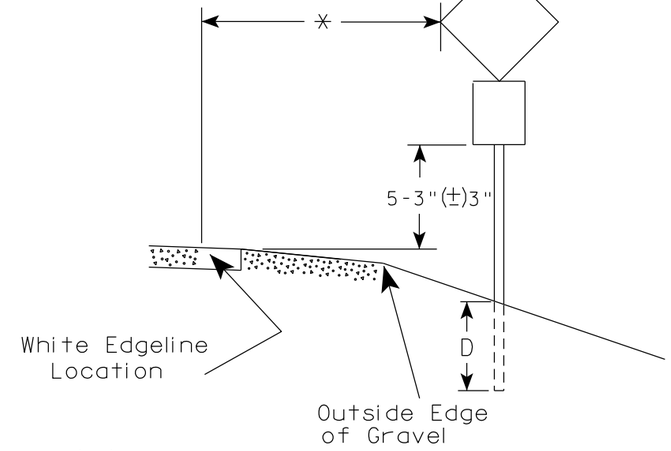
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

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 or behind barrier wall, see A4-10 sign plate.
   The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±) 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" (±) 3".
3. For expressways and freeways, mounting height is 7'- 3" (±) 3" or 6'-3" (±) 3" depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±) 3".
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. Folding signs shall be mounted at a height of 5'-3" (±) 3" or as directd by the Engineer.

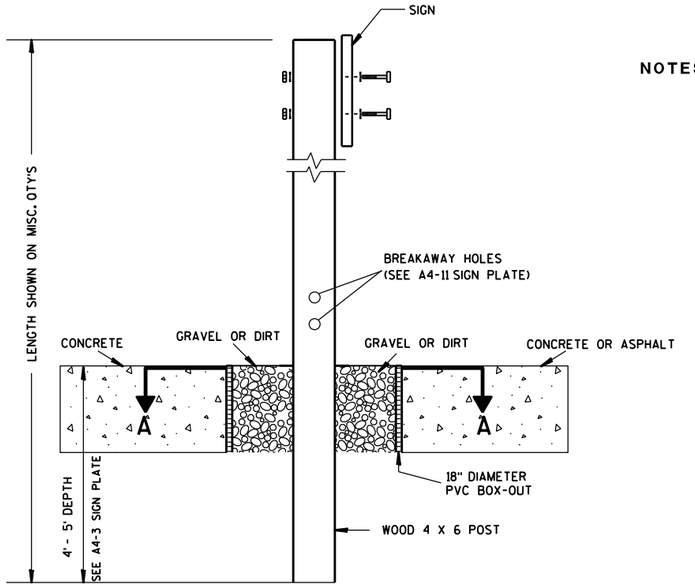
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-3.23

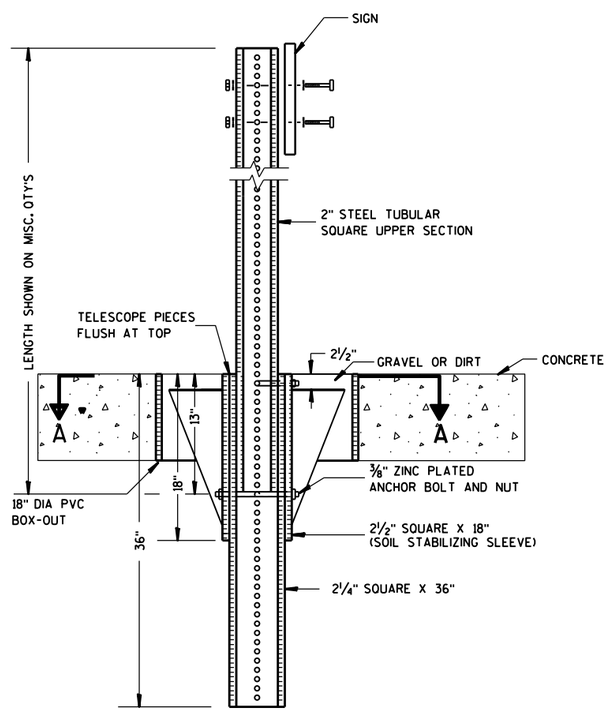
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 143	E



ELEVATION VIEW

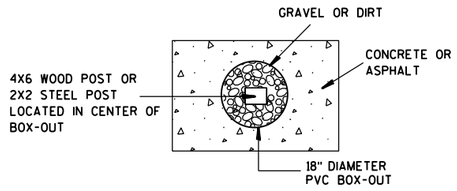
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

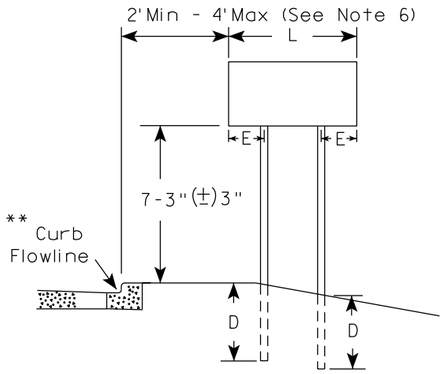
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

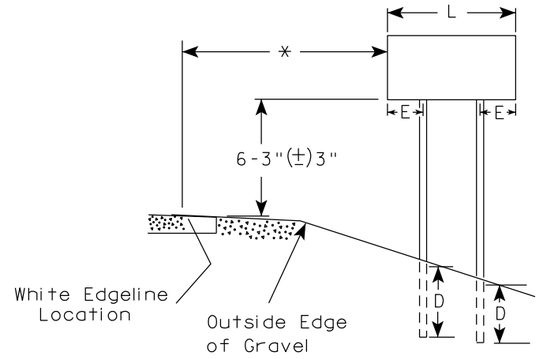
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

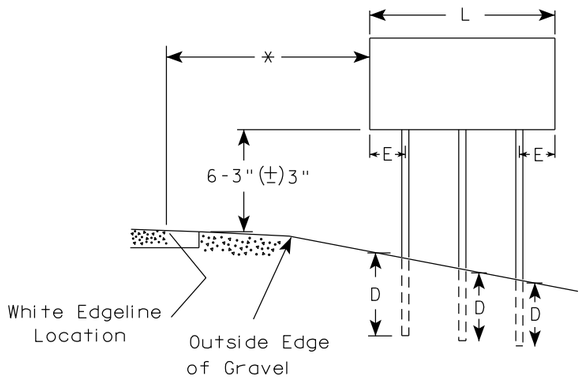
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

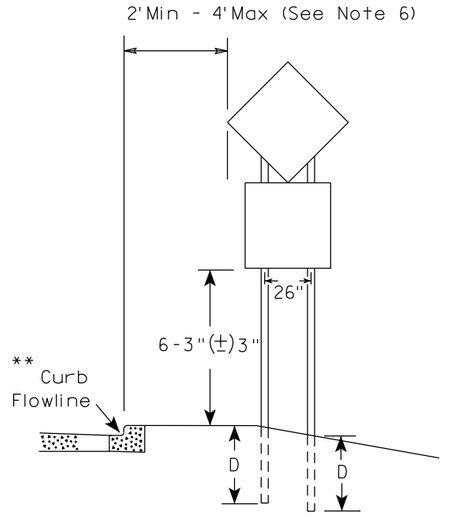
URBAN AREA



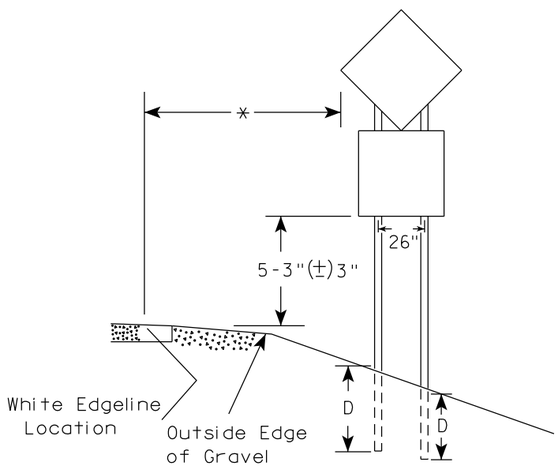
RURAL AREA (See Note 3)







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" (±) 3" or 6'-3" (±) 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" (±) 3" or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±) 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" (±) 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'

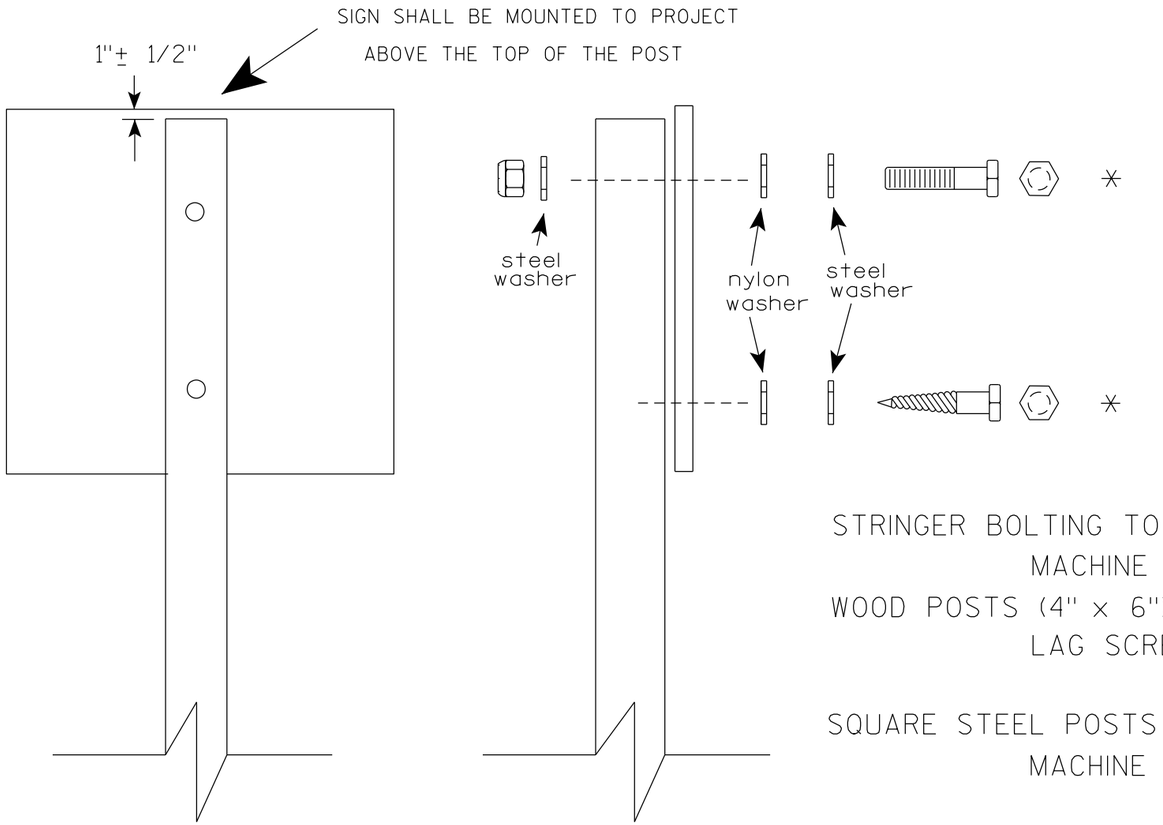
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-4.16

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 145	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 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

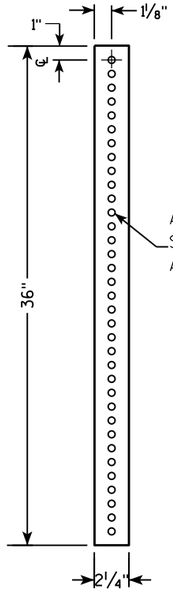
DATE 4/1/2020 PLATE NO. A4-8.9

PROJECT NO:

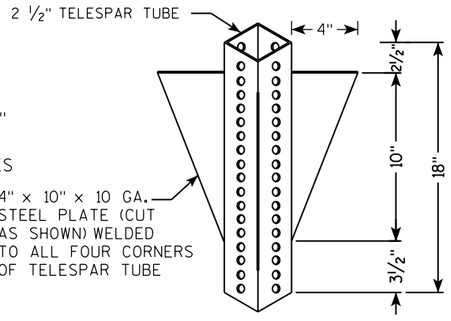
SHEET NO: 146 E

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

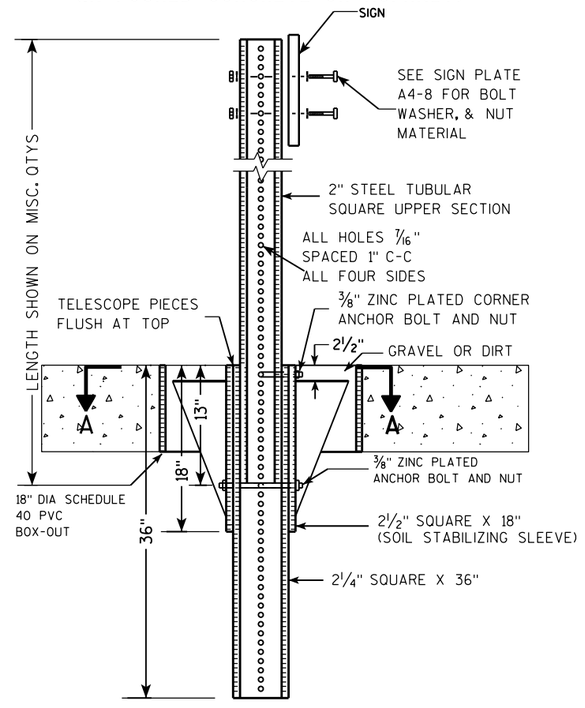
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



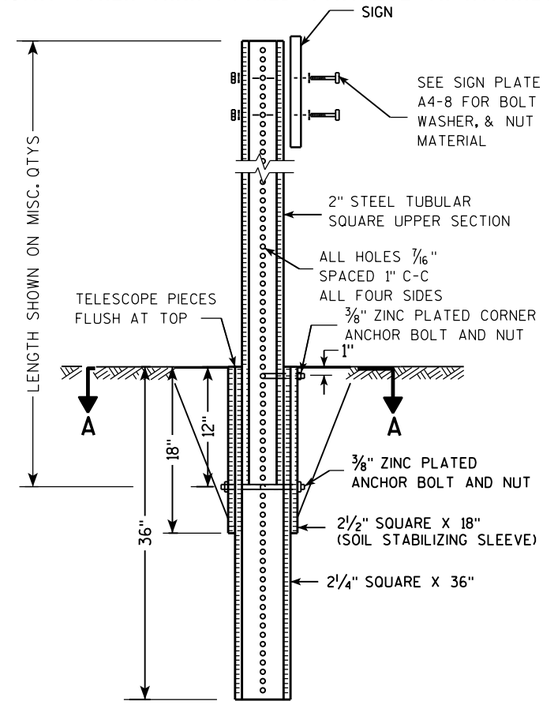
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

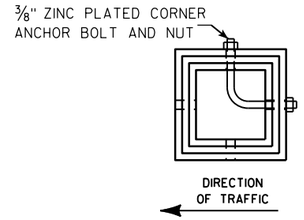


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR 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

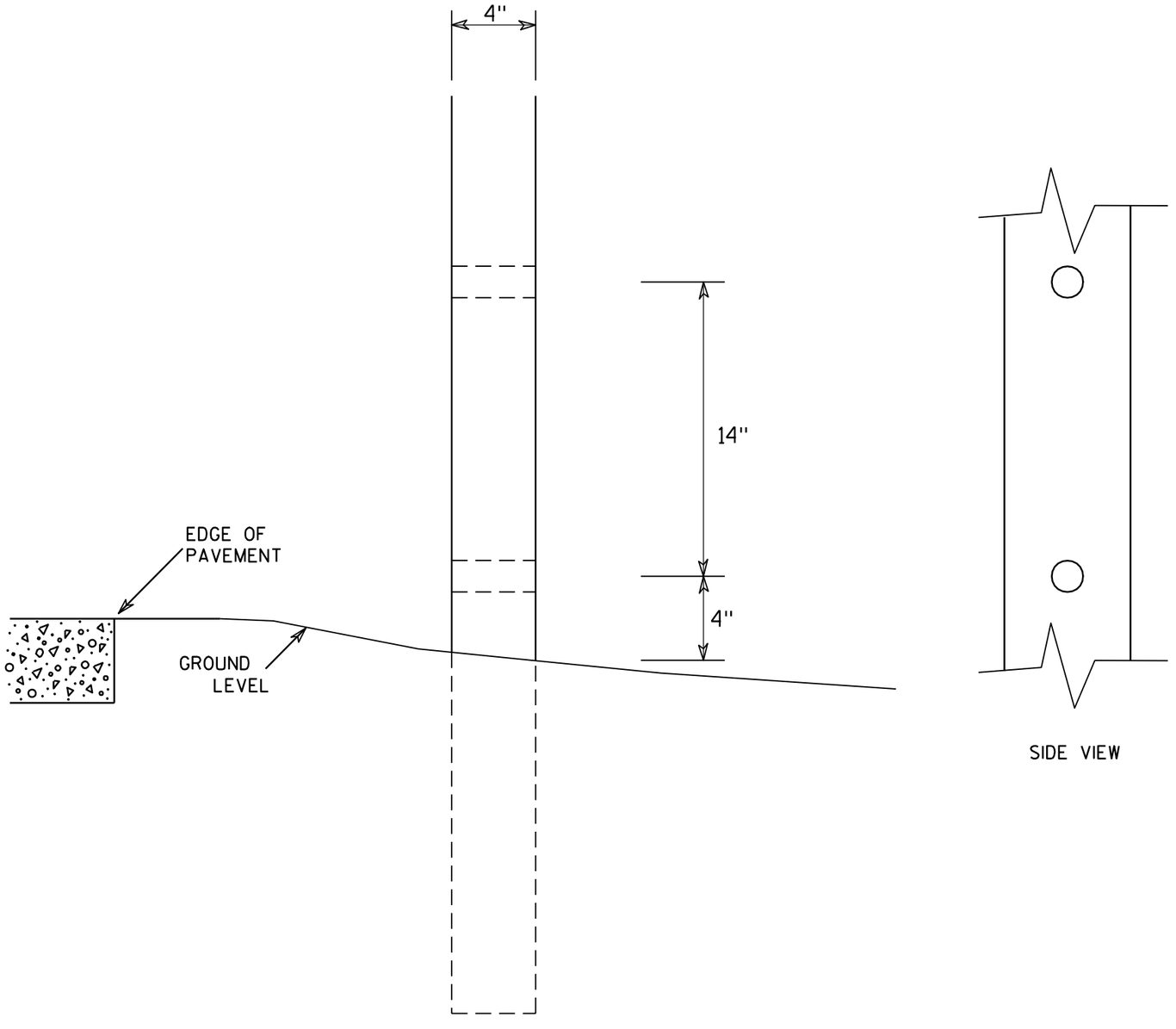
WISCONSIN DEPT OF TRANSPORTATION

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.

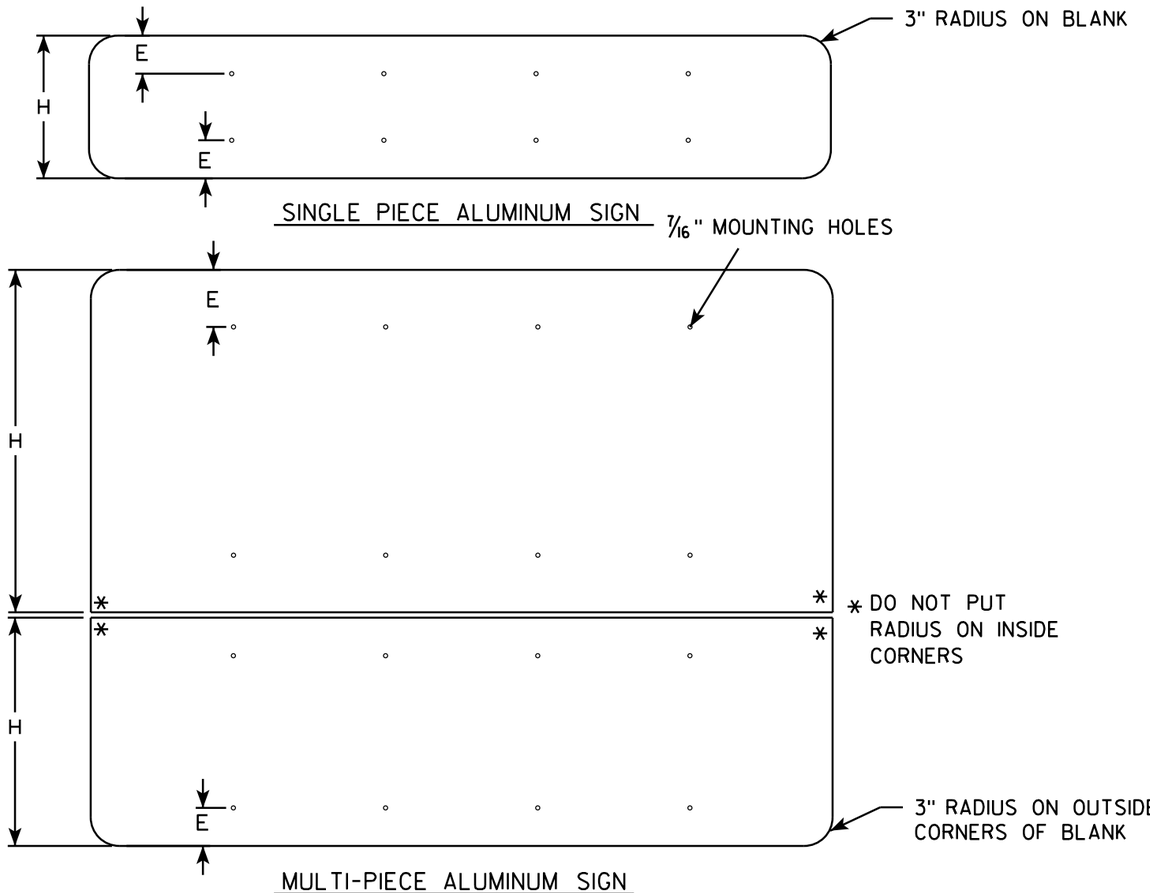
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

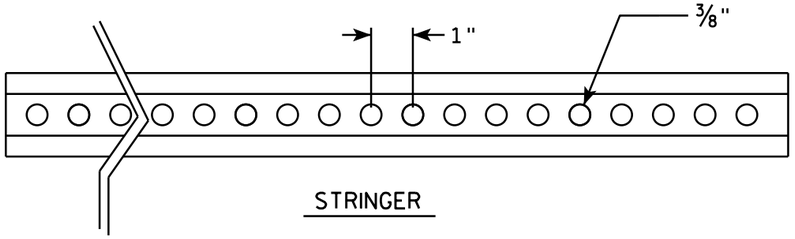
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 148	E



GENERAL NOTES

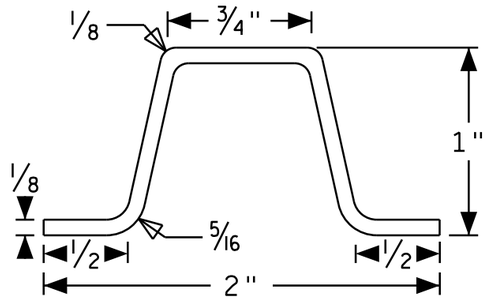
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 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"

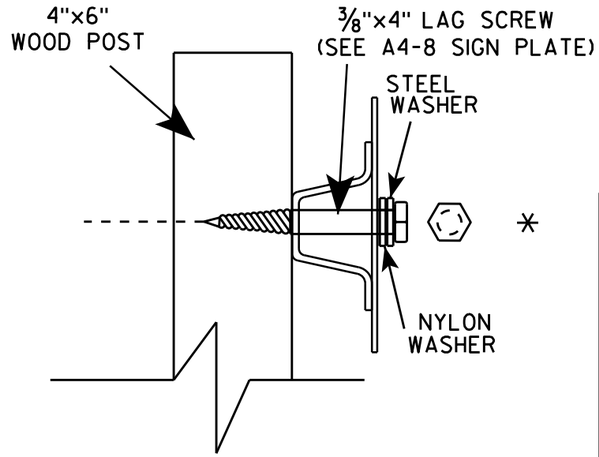


STRINGER

CROSS SECTION VIEW OF CHANNEL



POST MOUNTING



SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

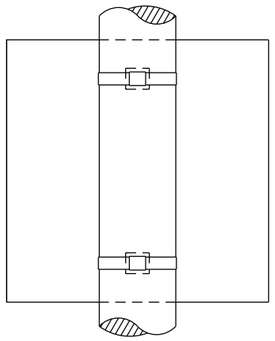
DATE 4/26/16 PLATE NO A4-18.1

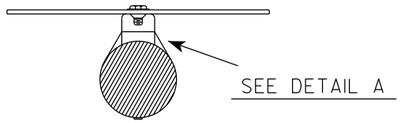
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

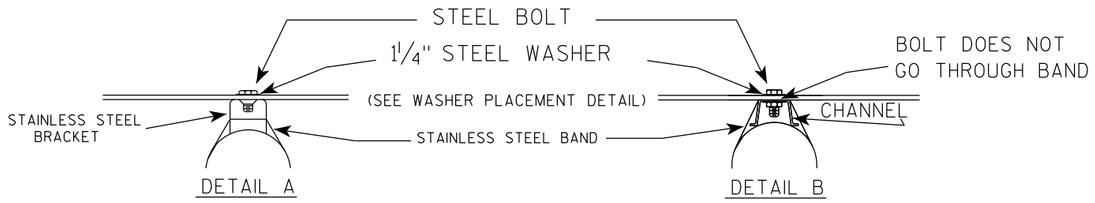
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A418.dgn PLOT DATE : 27-APR-2016 13:56 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 41.805205:1.000000 WISDOT/CADDS SHEET 42

BANDING

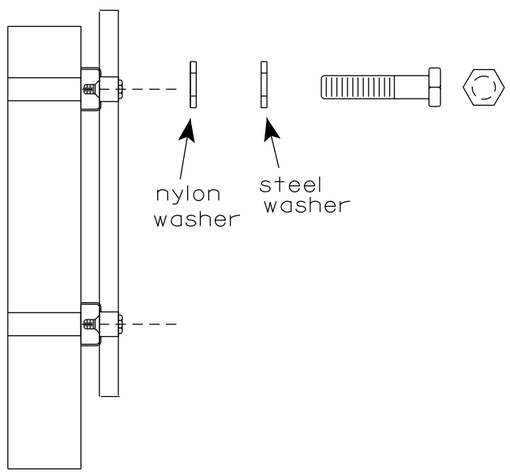
SINGLE SIGN







WASHER PLACEMENT

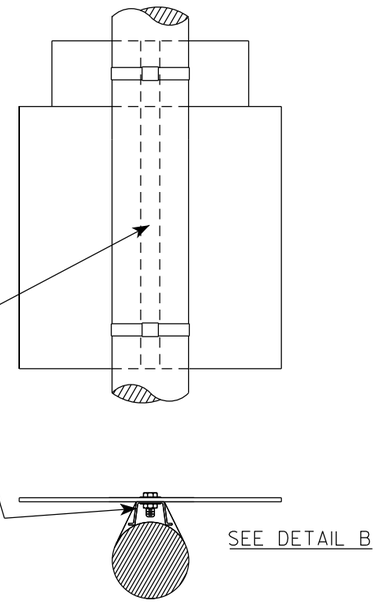


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

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 ¾" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

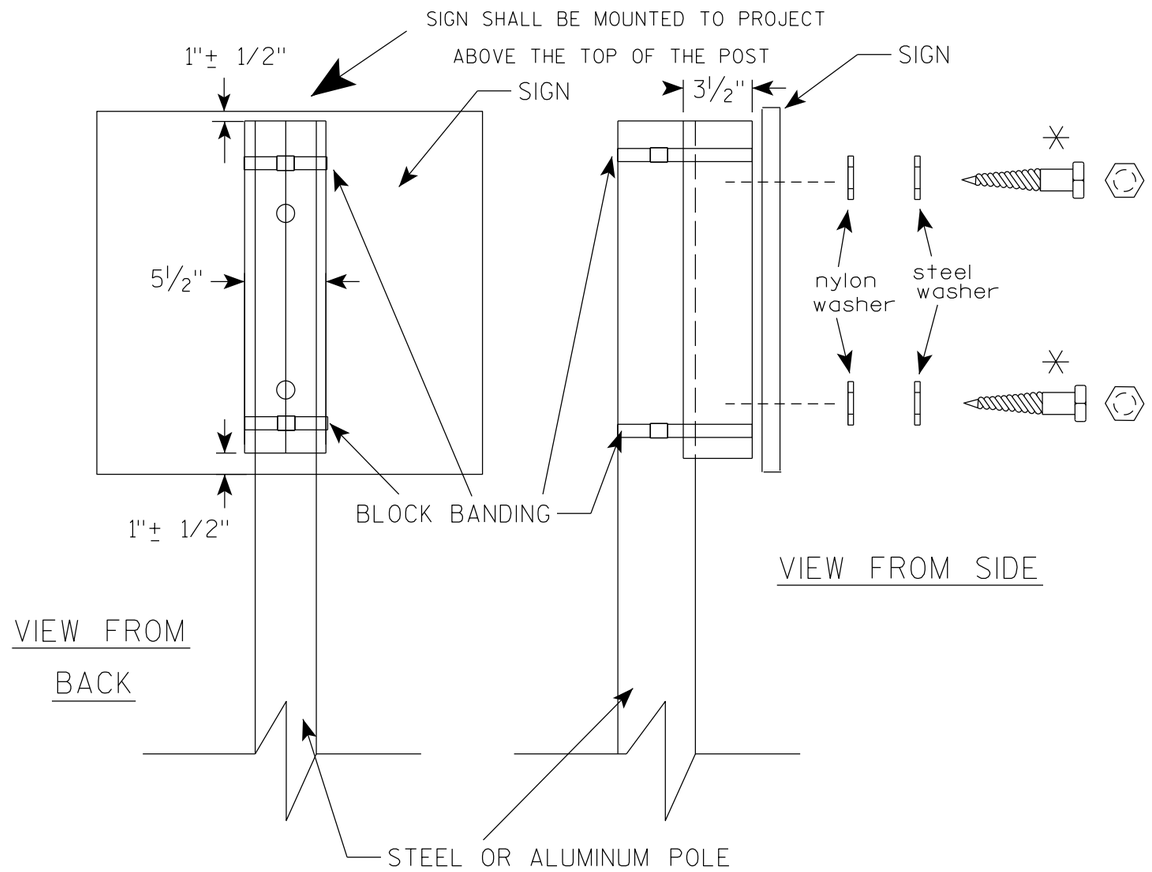
DATE 6/10/19 PLATE NO. A5-9.4

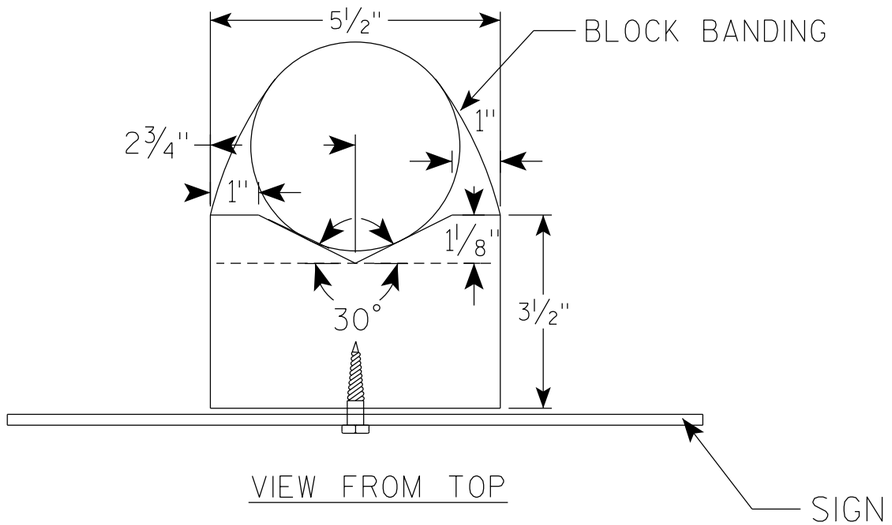
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 150	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7

7





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
   b. 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 4/19/2022 PLATE NO. A5-10.3

PROJECT NO:

SHEET NO: 151 E

D12-50

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - Blue
   Message - White
3. Message Series - B for Line 1
   Series C for Lines 2 & 3
4. Substitute appropriate LOGO which may not exceed 12 inches by 12 inches, see TGM policy 2-4-48.1 for acceptable logos.

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		2 1/4		1/2	4	12	13 1/4	12	2	1 1/4	13 5/8	13														9.0
2M	36		2 1/4		1/2	4	12	13 1/4	12	2	1 1/4	13 5/8	13														9.0
3																											
4																											
5																											

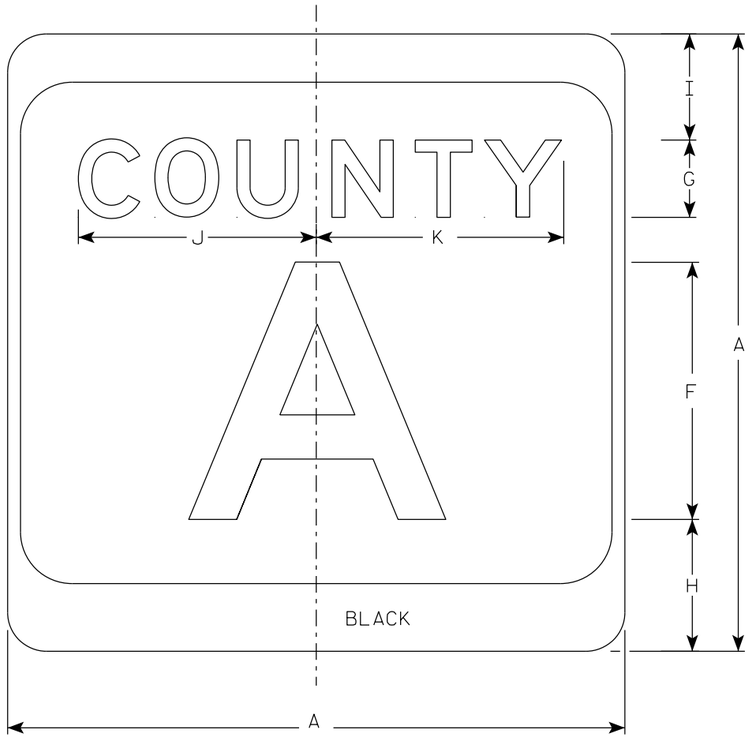
STANDARD SIGN
D12-50

WISCONSIN DEPT OF TRANSPORTATION

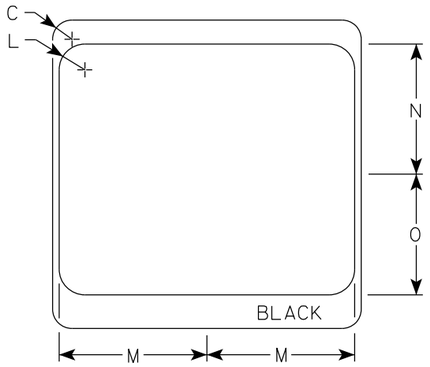
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/25/2023 PLATE NO. D12-50.4

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 152 | E

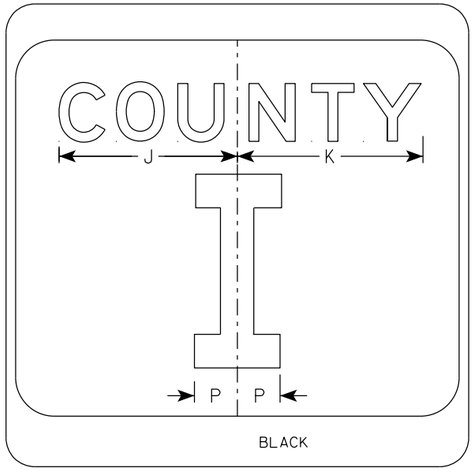


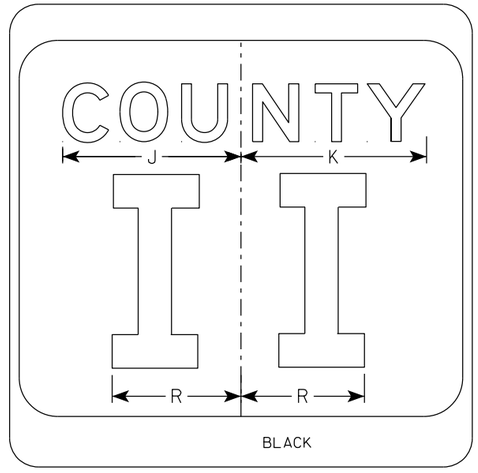
M1-5A



NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White & Black
   Message - Black
3. Message Series - see Note 4
4. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
5. Substitute appropriate letters & optically center 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	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
2M	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

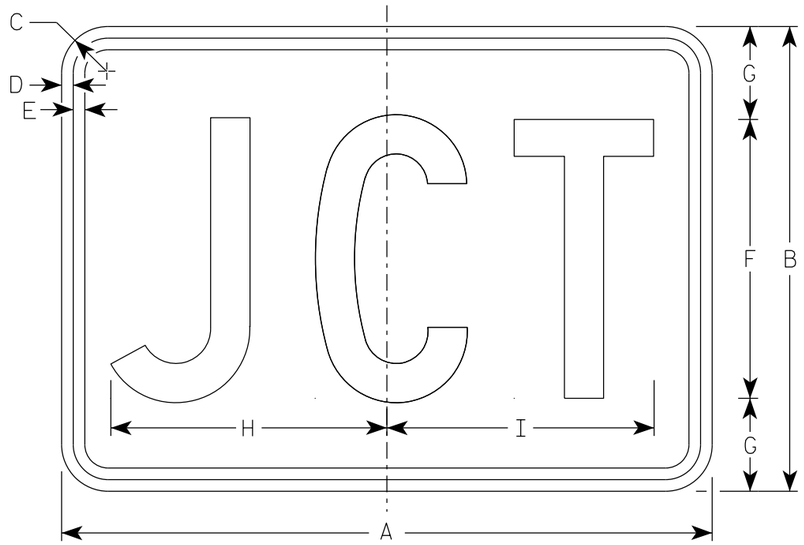
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/8/2022 PLATE NO. M1-5A.9

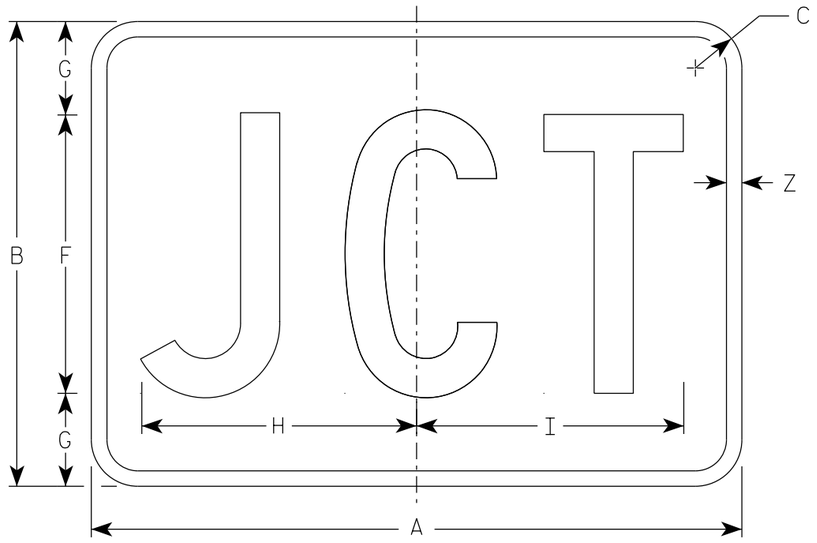
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M15A.dgn PLOT DATE : 8-NOV 2022 8:26 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7



M2-1
MM2-1
MP2-1



MB2-1
MK2-1
MN2-1
MR2-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. M2-1 Background - White
   Message - Black
   MB2-1 Background - Blue
   Message - White
   MK2-1 Background - Green
   Message - White
   MM2-1 Background - White
   Message - Green
   MN2-1 Background - Brown
   Message - White
   MP2-1 Background - White
   Message - Blue
   MR2-1 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																											
2S	21	15	1 1/2	3/8	3/8	9	3	8 7/8	8 5/8																	1/2	2.20
2M	21	15	1 1/2	3/8	3/8	9	3	8 7/8	8 5/8																	1/2	2.20
3	30	21	1 1/2	3/8	3/8	13	4	12 7/8	12 3/8																	1/2	4.40
4	30	21	1 1/2	3/8	3/8	13	4	12 7/8	12 3/8																	1/2	4.40
5	30	21	1 1/2	3/8	3/8	13	4	12 7/8	12 3/8																	1/2	4.40

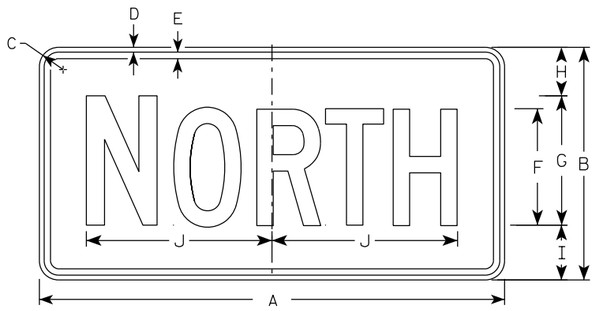
STANDARD SIGN
M2-1

WISCONSIN DEPT OF TRANSPORTATION

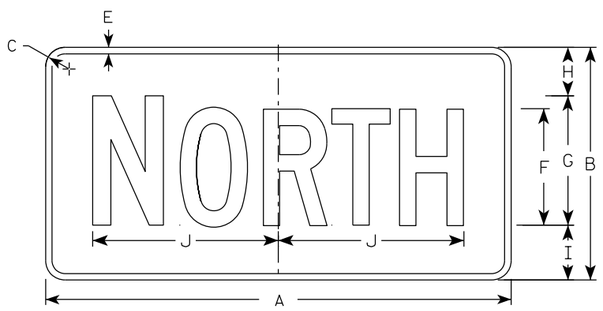
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/8/2023 PLATE NO. M2-1.14

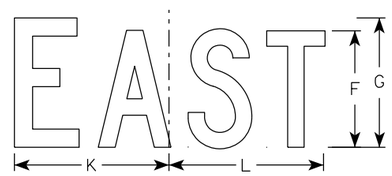
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 154 | E



M3-1
MM3-1
MP3-1

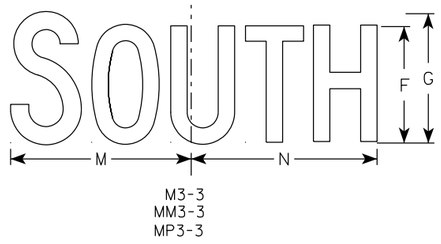


MB3-1
MK3-1
MN3-1

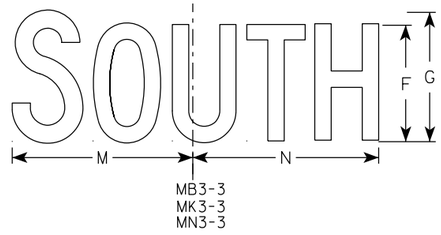


M3-2
MM3-2
MP3-2

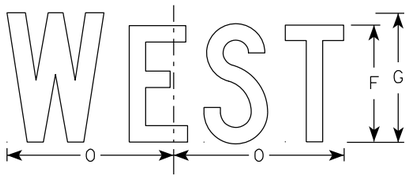
MB3-2
MK3-2
MN3-2



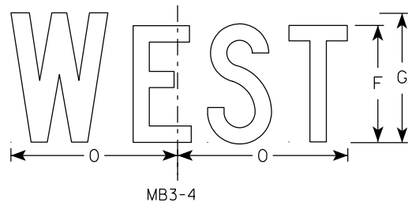
M3-3
MM3-3
MP3-3



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 Reflective
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																											
2S	24	12	1 1/2	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												2.00
2M	24	12	1 1/2	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												2.00
3	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5
4	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5
5	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5

STANDARD SIGNS
M3-1 THRU M3-4
SERIES

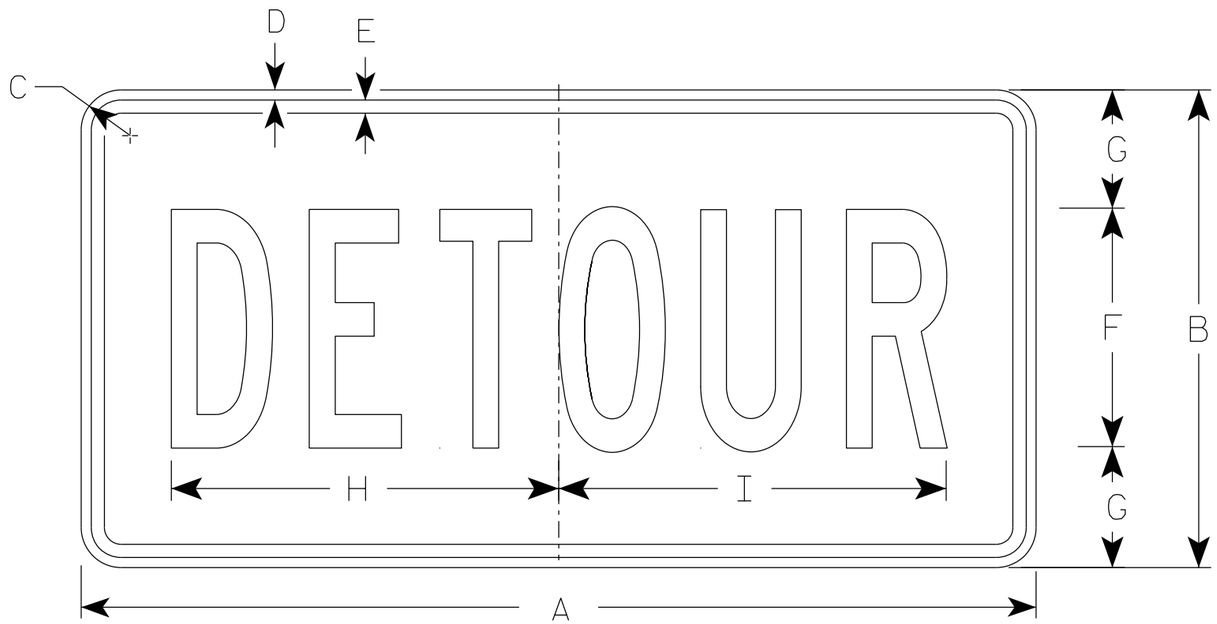
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 2/8/2023 PLATE NO. M3-1.15

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 155 | E

7



M4-8

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
2M	24	12	1 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
5	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5

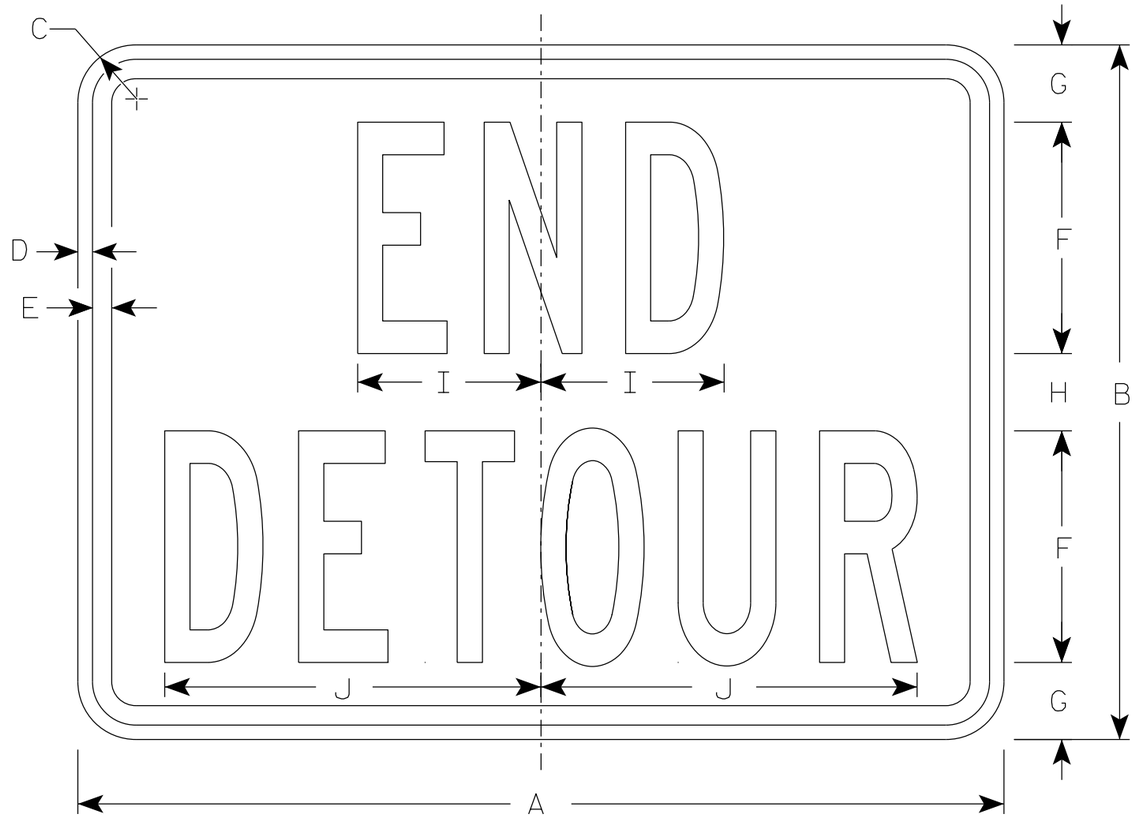
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-8.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



M4-8A

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	18	1 ½	⅜	½	6	2	2	4 ¾	9 ¾																	3.0
2M	24	18	1 ½	⅜	½	6	2	2	4 ¾	9 ¾																	3.0
3	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0
4	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0
5	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0

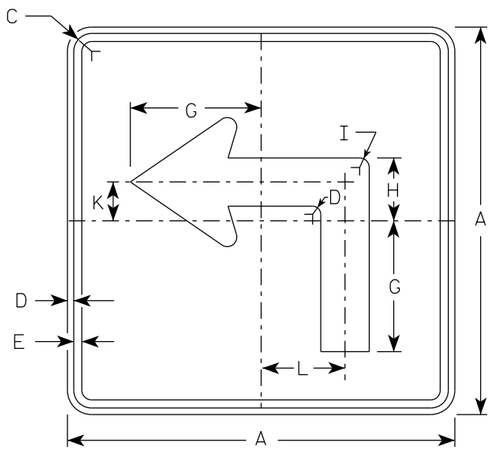
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

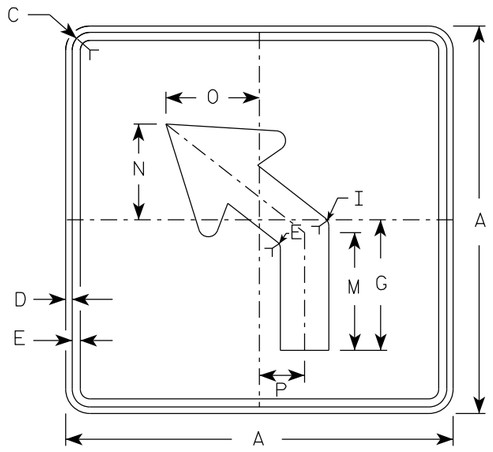
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-8A.4

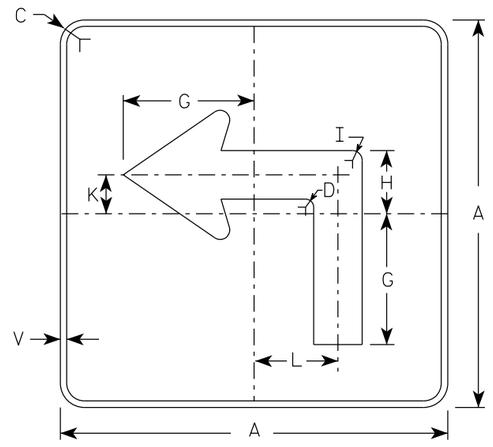
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 157 | E



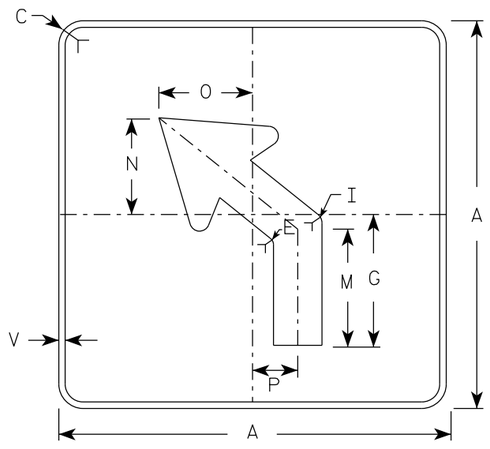
M5-1L
MM5-1L
MO5-1L
MP5-1L



M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L

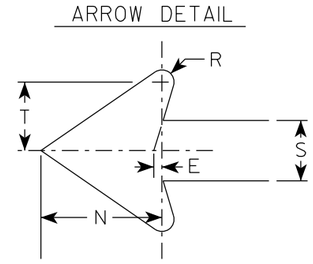


MB5-2L
MK5-2L
MN5-2L
MR5-2L

NOTES

1. Signs are Type II - Type H reflective 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. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

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	21		1 1/2	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3		1/2					3.06
2M	21		1 1/2	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3		1/2					3.06
3	30		1 7/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4		1/2					6.25
4	30		1 7/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4		1/2					6.25
5	30		1 7/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4		1/2					6.25

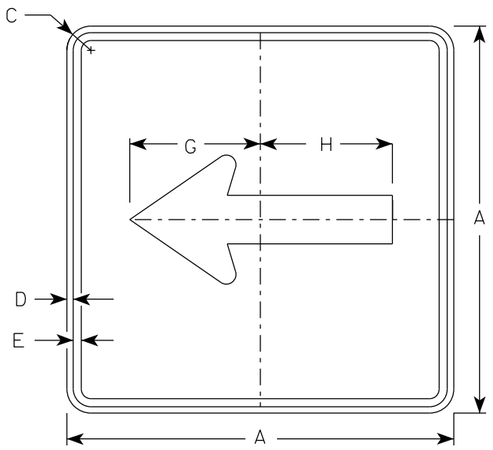
STANDARD SIGN
M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

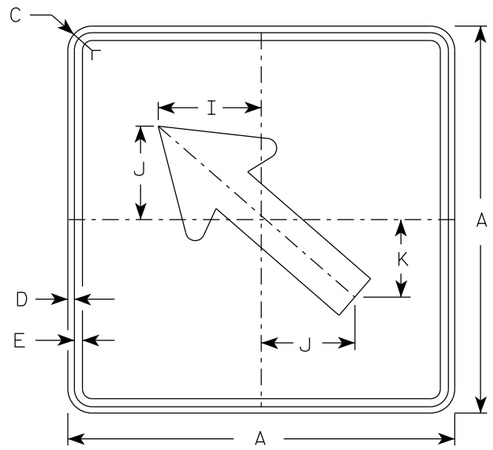
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/13/2023 PLATE NO. M5-1.15

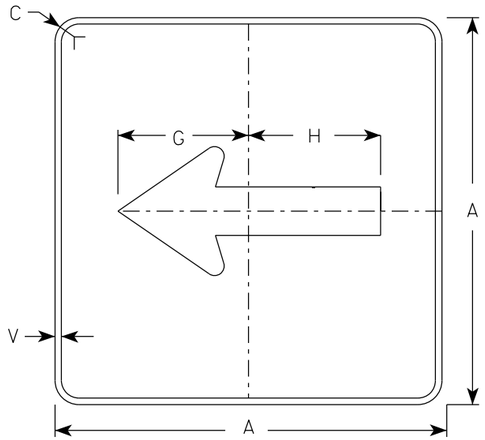
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 158 | E



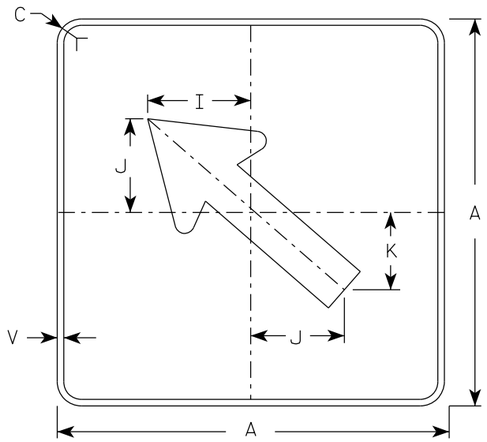
M6-1
MM6-1
MO6-1
MP6-1



M6-2
MM6-2
MO6-2
MP6-2



MB6-1
MK6-1
MN6-1
MR6-1

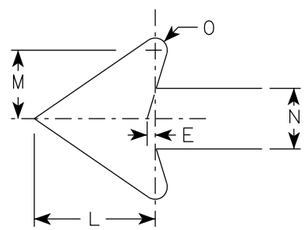


MB6-2
MK6-2
MN6-2
MR6-2

NOTES

1. Signs are Type II - Type H Reflective 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

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	21		1 1/2	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							1/2					3.06
2M	21		1 1/2	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							1/2					3.06
3	30		1 7/8	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							1/2					6.25
4	30		1 7/8	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							1/2					6.25
5	30		1 7/8	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							1/2					6.25

STANDARD SIGN
M6-1 & M6-2
SERIES

WISCONSIN DEPT OF TRANSPORTATION

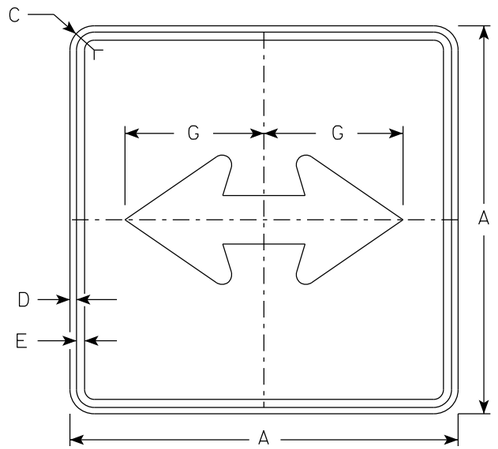
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/13/2023 PLATE NO. M6-1.16

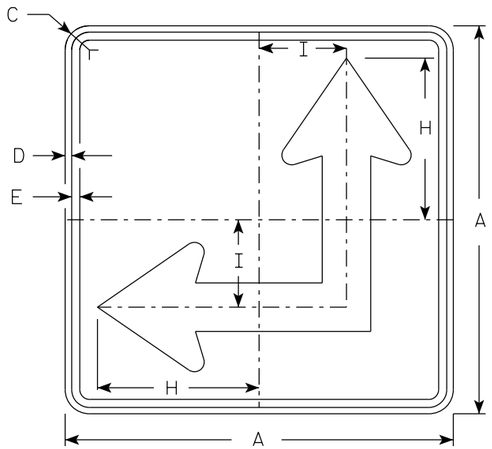
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 159 | E

7

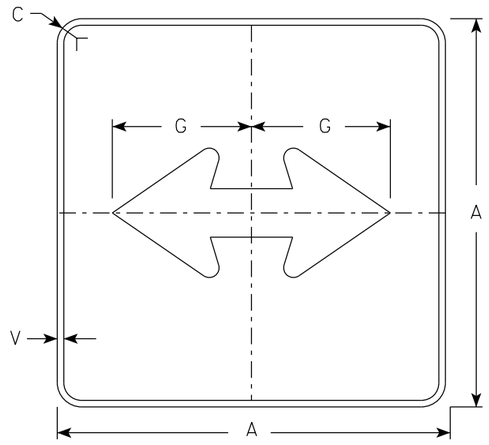
7



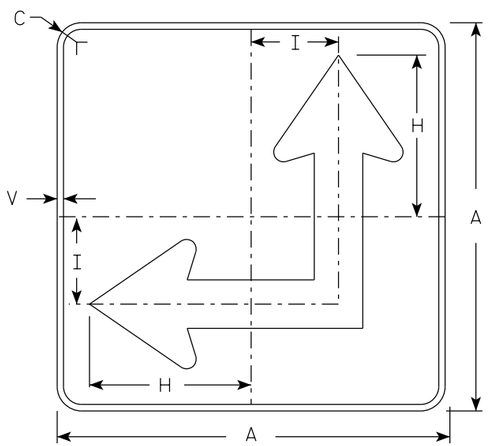
M6-4
MM6-4
MO6-4
MP6-4



M6-6
MM6-6
MO6-6
MP6-6



MB6-4
MK6-4
MN6-4
MR6-4

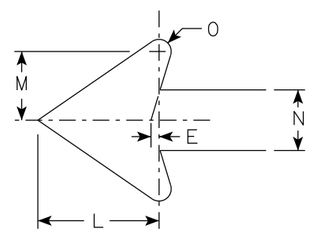


MB6-6
MK6-6
MN6-6
MR6-6

NOTES

1. Signs are Type II - Type H Reflective 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. M6-4 and M6-6 Background - White
   Message - Black
   MB6-4 and MB6-6 Background - Blue
   Message - White
   MK6-4 and MK6-6 Background - Green
   Message - White
   MM6-4 and MM6-6 Background - White
   Message - Green
   MN6-4 and MN6-6 Background - Brown
   Message - White
   MO6-4 and MO6-6 Background - Orange - Type F Reflective
   Message - Black
   MP6-4 and MP6-6 Background - White
   Message - Blue
   MR6-4 and MR6-6 Background - Brown
   Message - Yellow
5. M6-6R same as M6-6L except arrow points ahead and right.

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	21		1 1/2	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2							1/2					3.06
2M	21		1 1/2	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2							1/2					3.06
3	30		1 7/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
4	30		1 7/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
5	30		1 7/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4							1/2					6.25

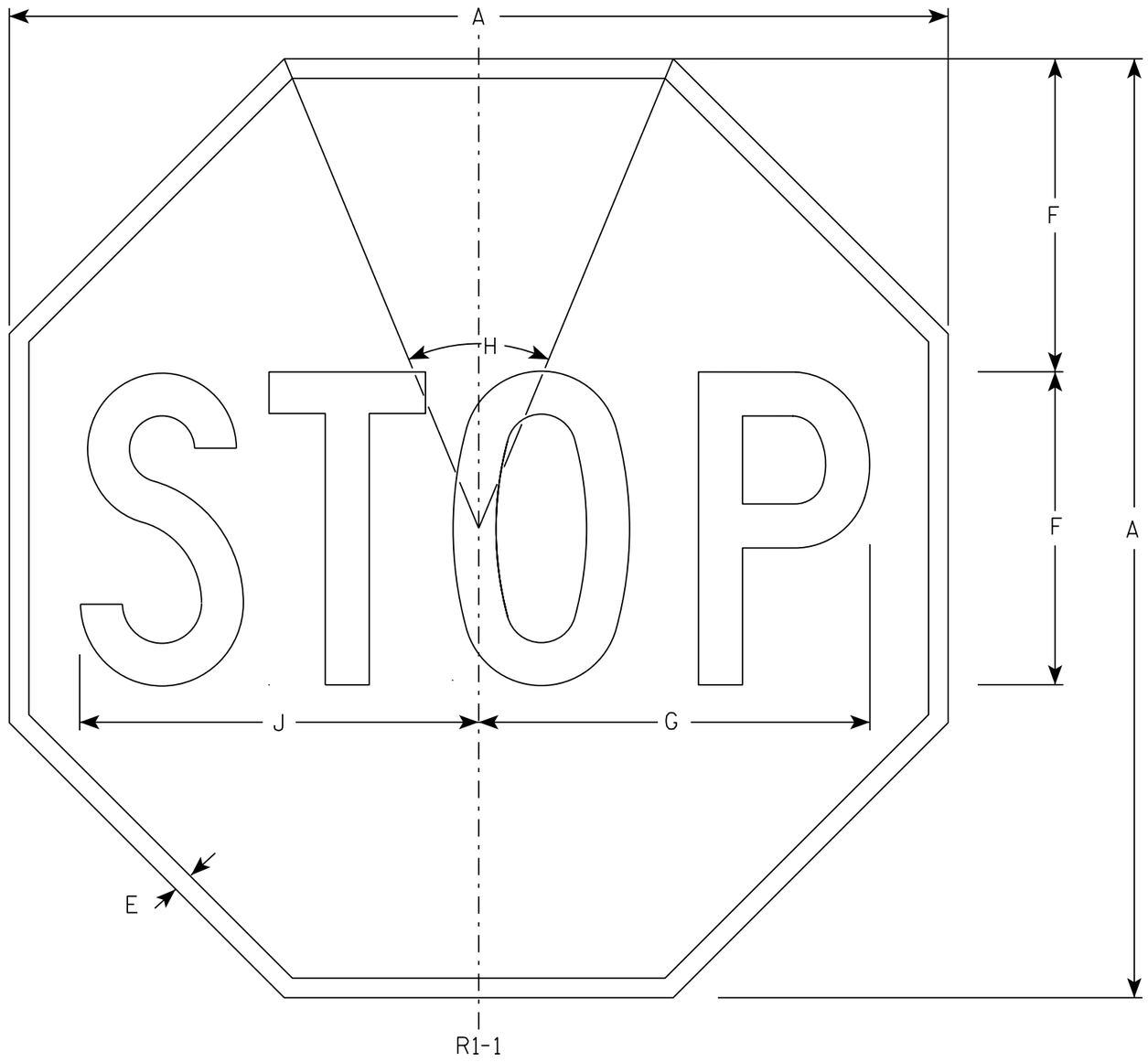
STANDARD SIGN M6-4 & M6-6 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/13/2023 PLATE NO. M6-4.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 160 | 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

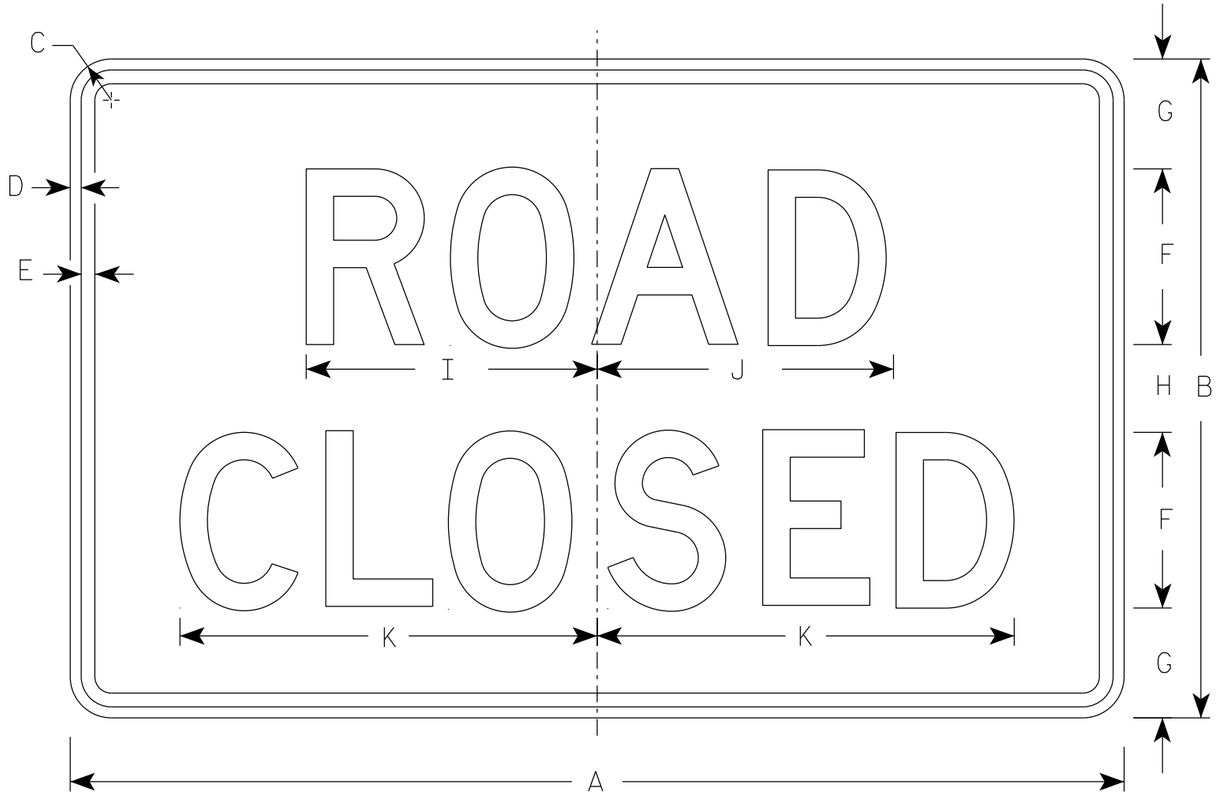
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

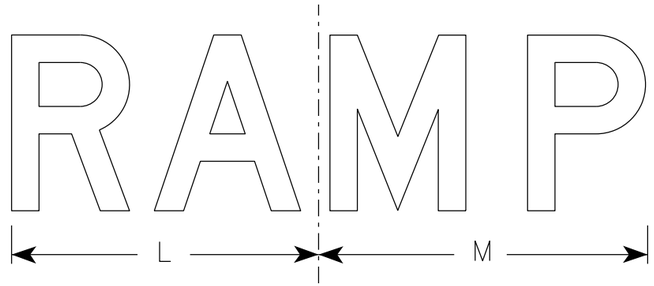
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 161	E



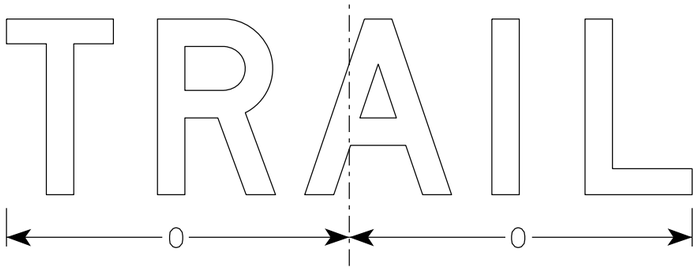
R11-2

NOTES

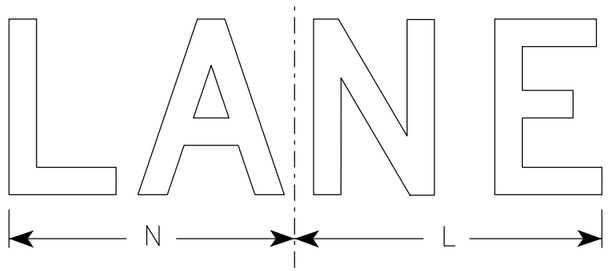
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



R11-2R



R11-2T



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
2M	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
3	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
4	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
5	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0

STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

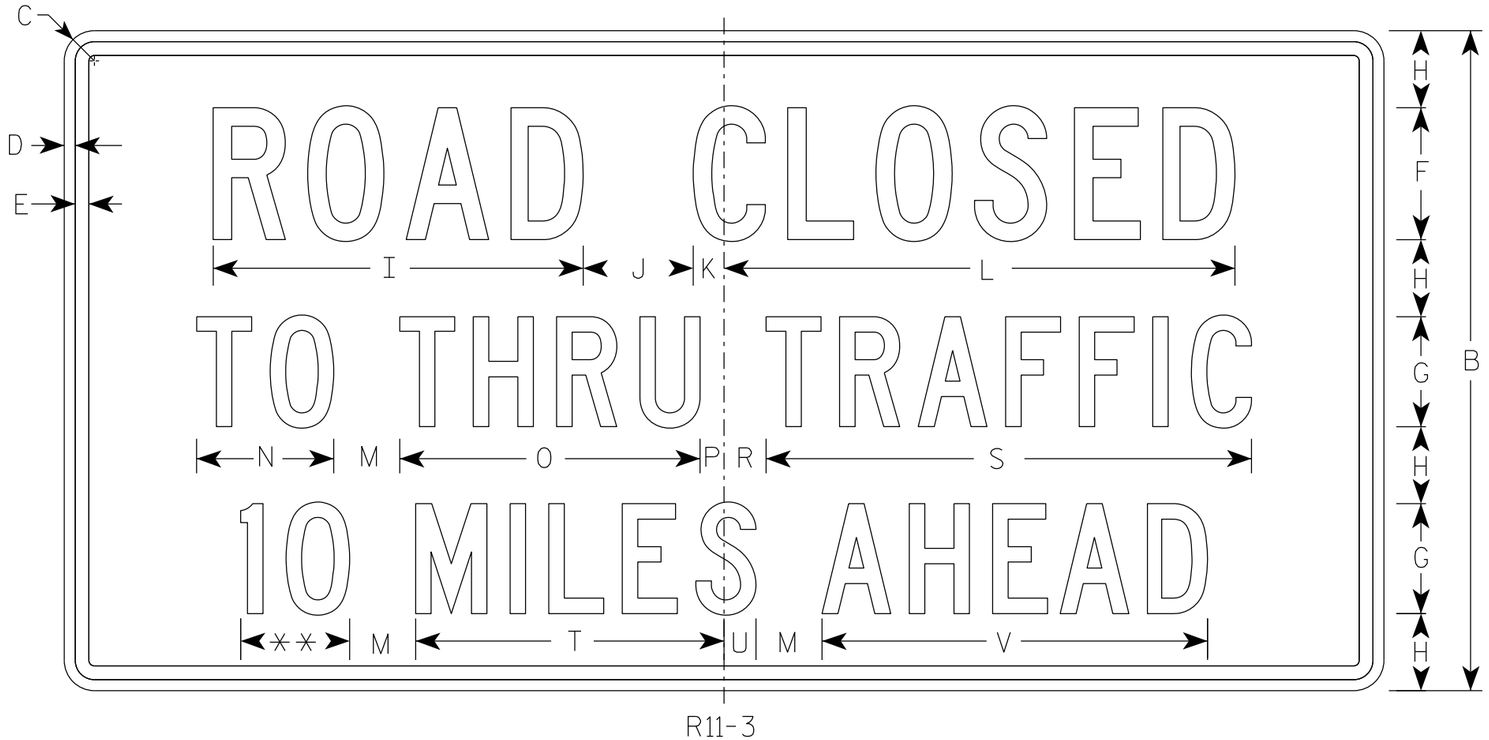
DATE 2/5/24 PLATE NO. R11-2.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R112.dgn PLOT DATE : 5-FEB 2024 2:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

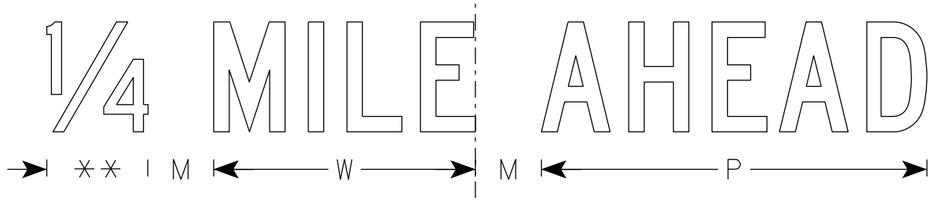
NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.



R11-3

** See Note 5



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/2	3/8	3/8	4	3	2	11 1/4	3	1 1/8	15 3/8	2	3 3/4	8 1/4	5/8		1 3/8	13 1/4	8 3/8	7/8	10 1/2	7 1/8				4.5
2S	60	30	1 7/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 5/8	1 1/8		1 7/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5
2M	60	30	1 7/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 5/8	1 1/8		1 7/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5
3																											
4																											
5																											

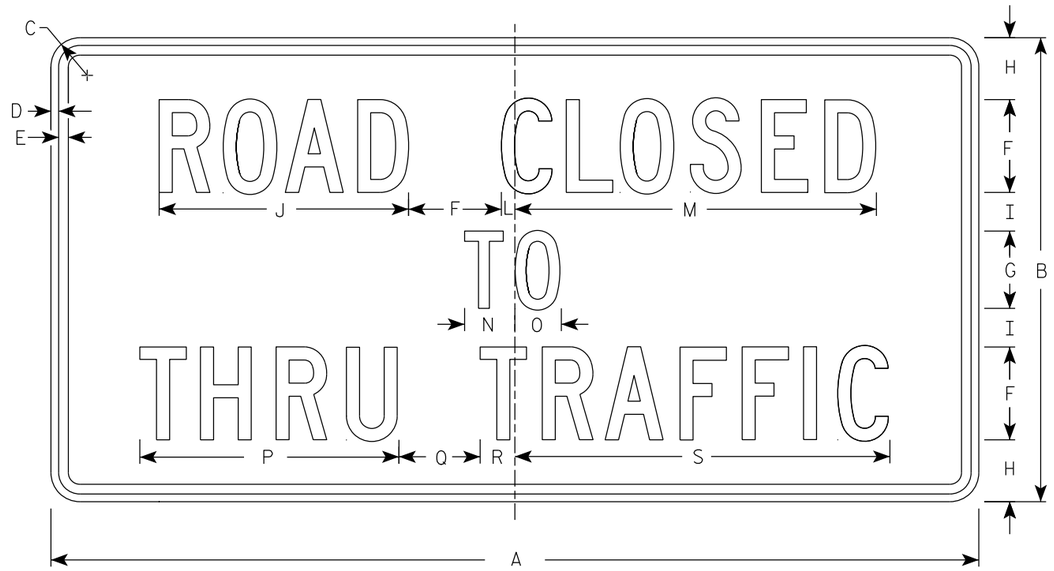
STANDARD SIGN
R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/5/24 PLATE NO. R11-3.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 163 E



R11-4

NOTES

1. Sign is Type II - Type H Reflective
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	60	30	1 7/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 7/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

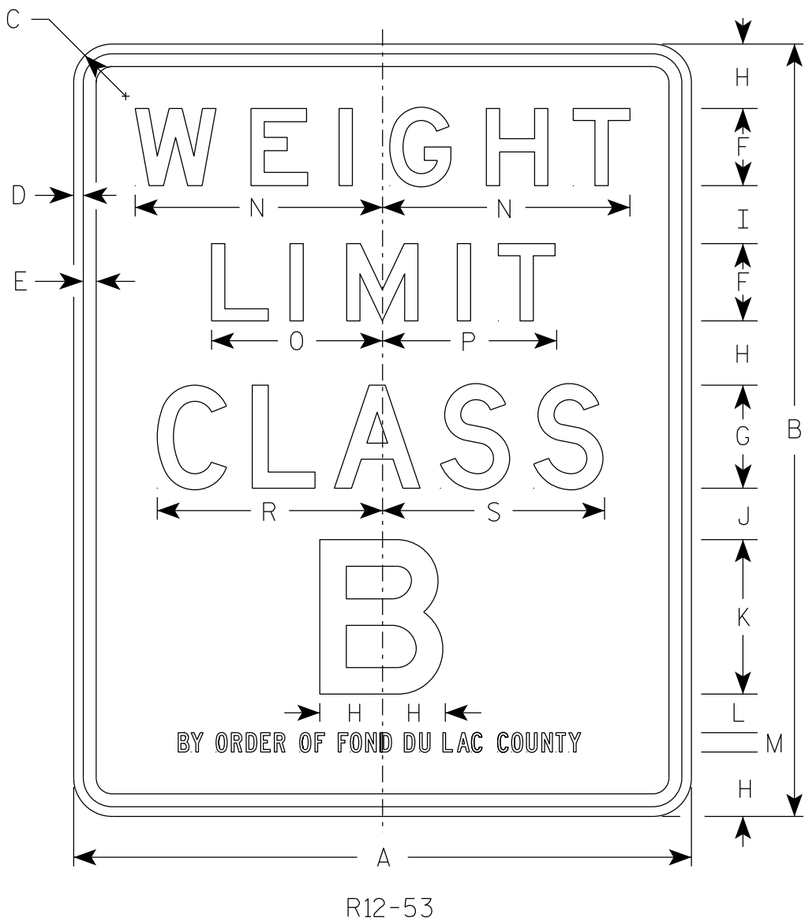
STANDARD SIGN
R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/5/24 PLATE NO. R11-4.4

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 164 | E



R12-53

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - Lines 1, 2 & 4 are Series E.
   Line 3 is Series D.
   Line 5 is Series C.
4. Line 5 of the sign shall vary with the name of the maintaining authority.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	30	1 1/2	3/8	1/2	3	4	2 1/2	2 1/4	2	6	1 1/2	3/4	9 5/8	6 5/8	6 3/4		8 3/4	8 5/8								5.0
2M	24	30	1 1/2	3/8	1/2	3	4	2 1/2	2 1/4	2	6	1 1/2	3/4	9 5/8	6 5/8	6 3/4		8 3/4	8 5/8								5.0
3																											
4																											
5																											

STANDARD SIGN
R12-53

WISCONSIN DEPT OF TRANSPORTATION

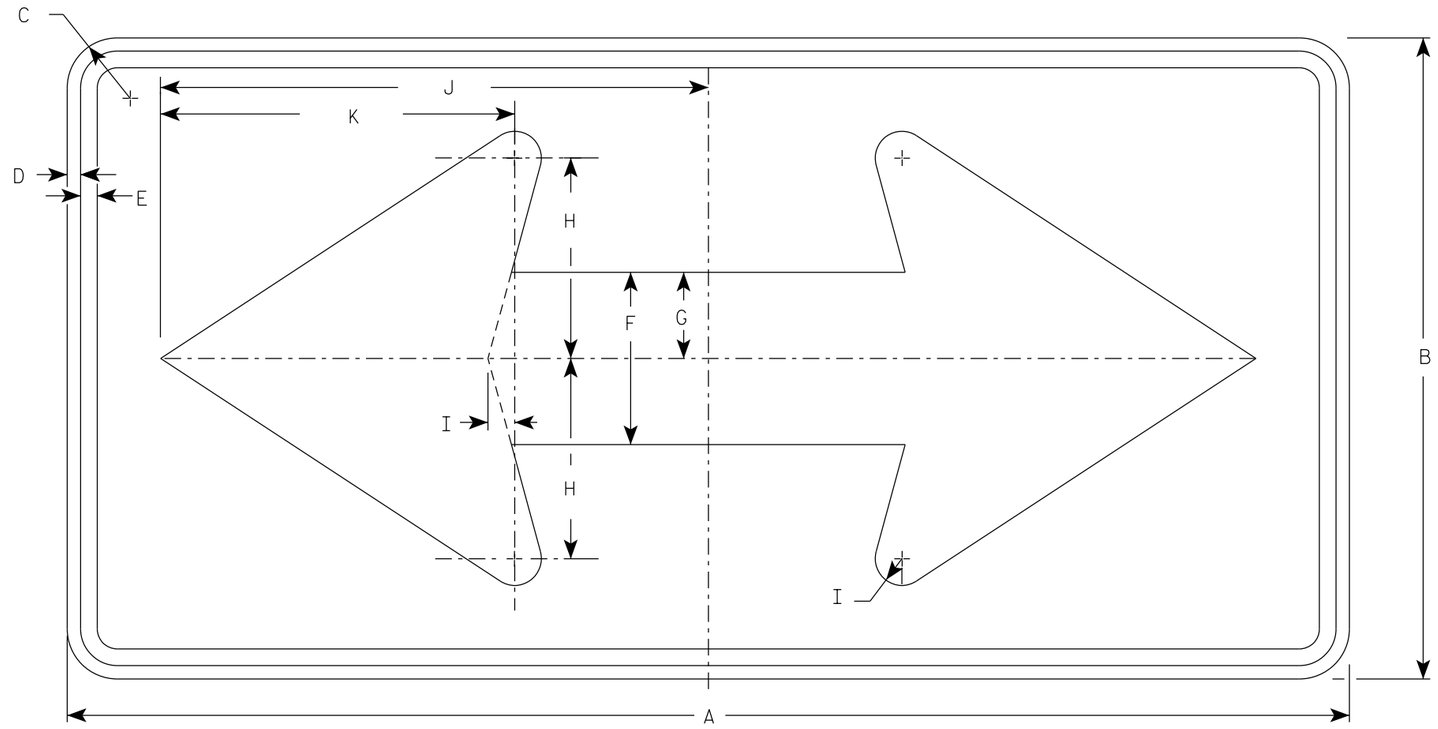
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 2/8/24 PLATE NO. R12-53.4

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 165 E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black



W1-7

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 1/2	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 7/8	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 7/8	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 7/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 7/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
5	96	48	3	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

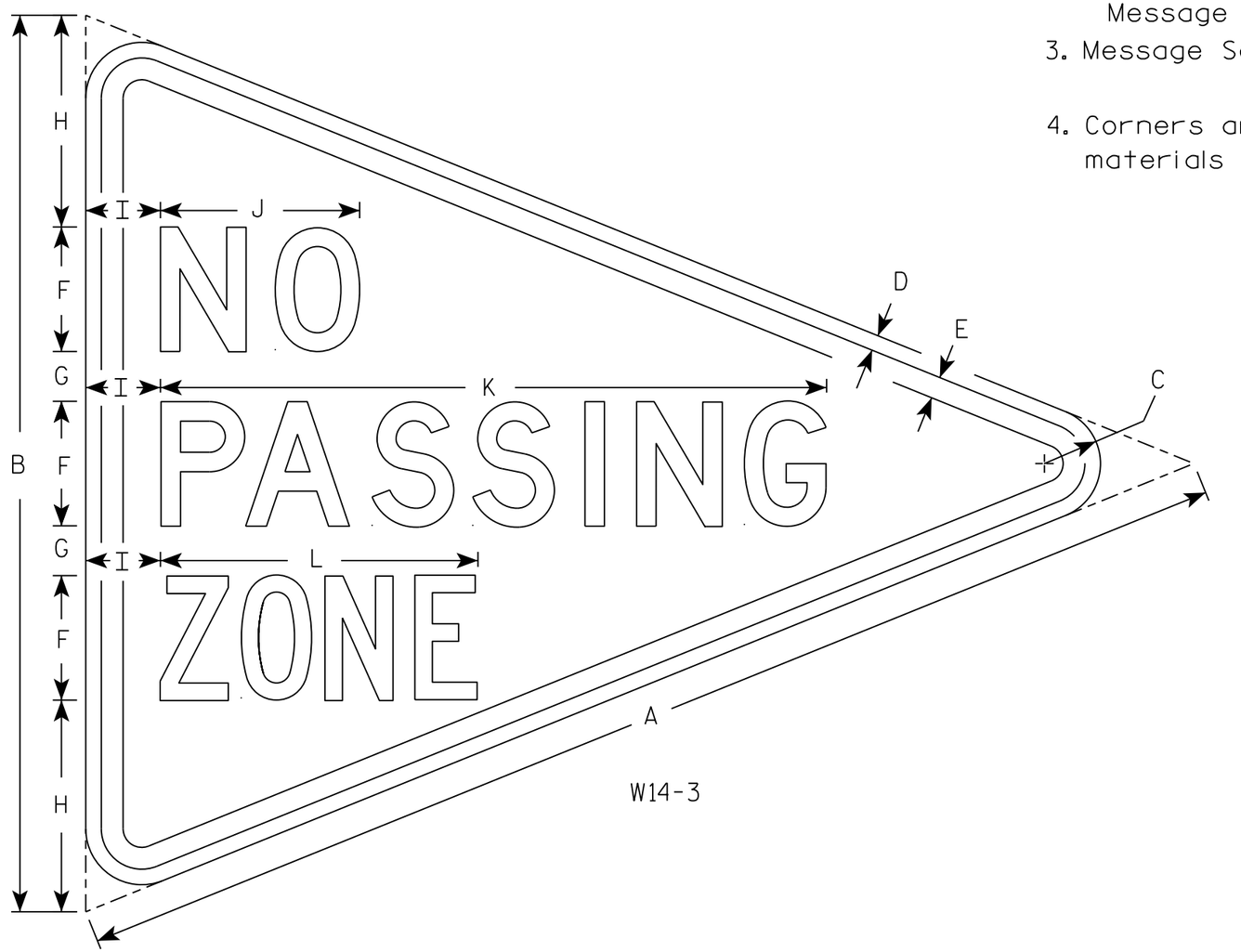
DATE 5/10/2023 PLATE NO. W1-7.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W17.dgn PLOT DATE : 10-MAY 2023 3:05 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

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

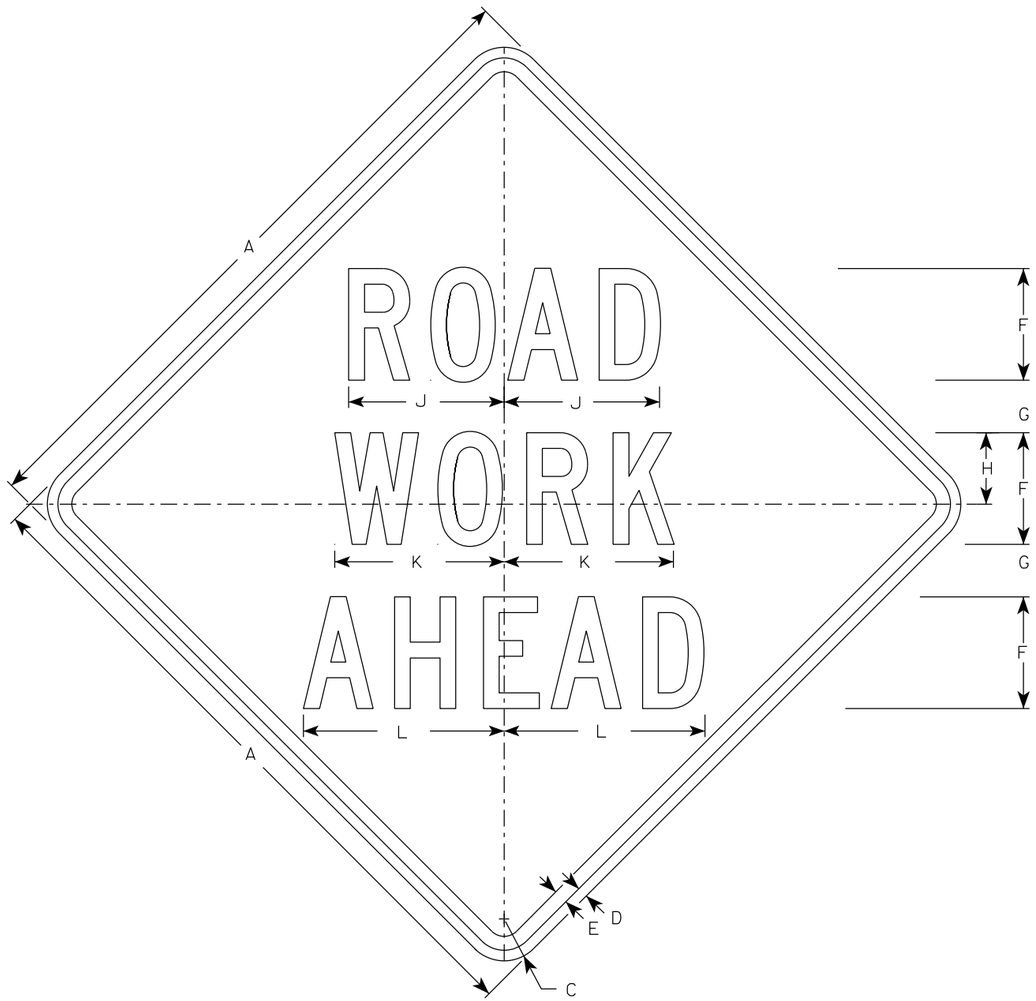
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/17 PLATE NO. W14-3.10

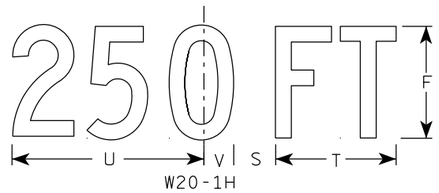
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 167	E

NOTES

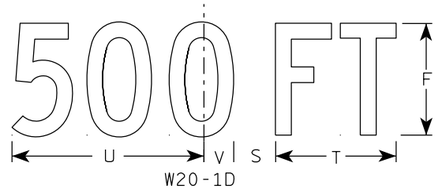
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W20-1A



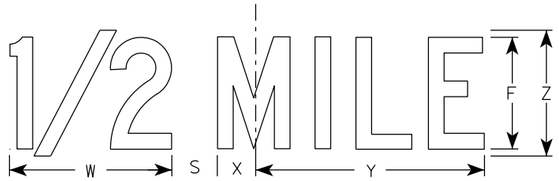
W20-1H



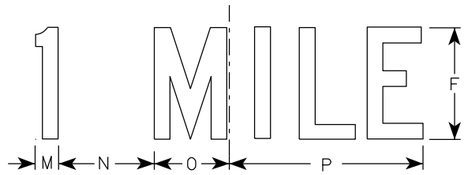
W20-1D

W20-1C

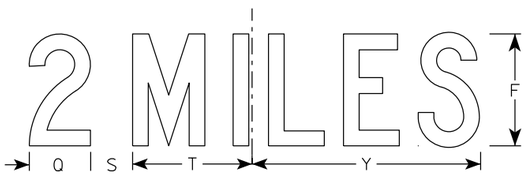
W20-1B



W20-1G



W20-1F



W20-1E

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		2 1/4	5/8	3/4	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	3 1/4	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		3	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		3	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		3	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		3	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		3	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, E, F, G & H

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 1/10/2024 PLATE NO. W20-1.12

PROJECT NO:

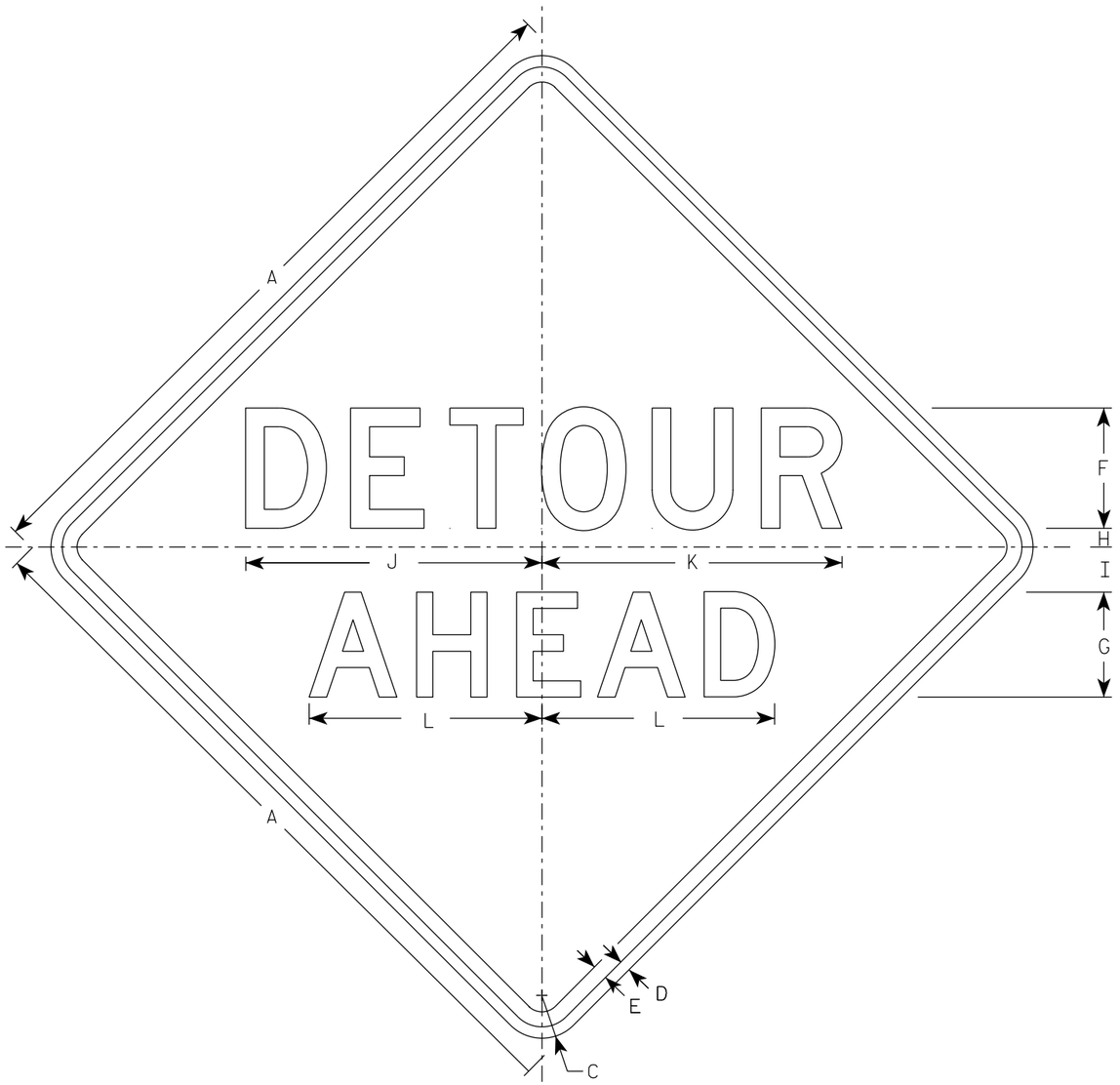
SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 10-JAN 2024 11:16 PLOT BY : dotc4c

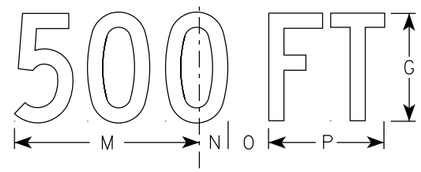
WISDOT/CADDS SHEET 42

7

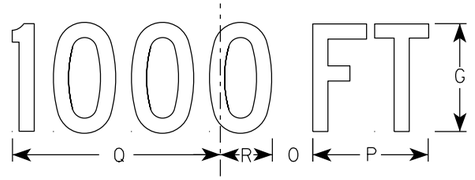
7



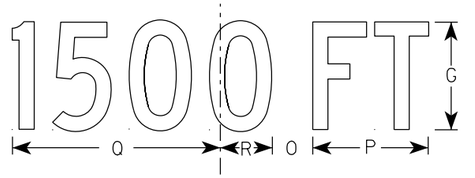
W20-2A



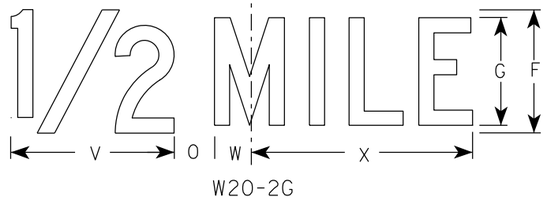
W20-2D



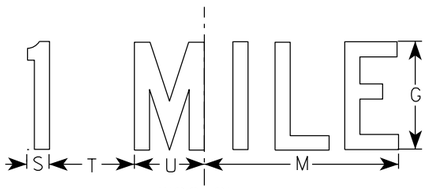
W20-2C



W20-2B



W20-2G



W20-2F

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series D.
   Line 2 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	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	8	1 3/4	10 3/4			9.0
2S	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

STANDARD SIGN
W20-2A,B,C,D,F & G

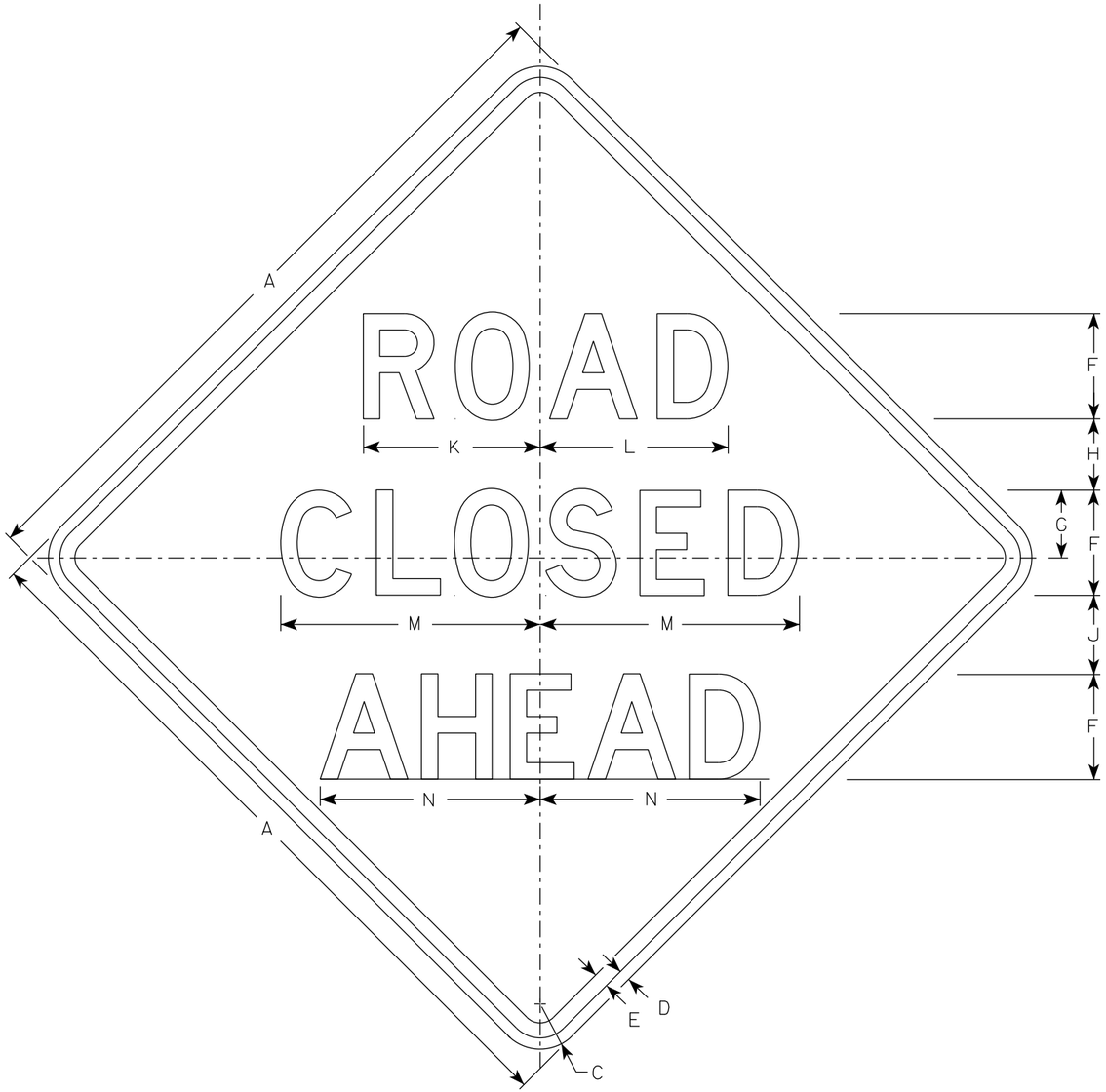
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

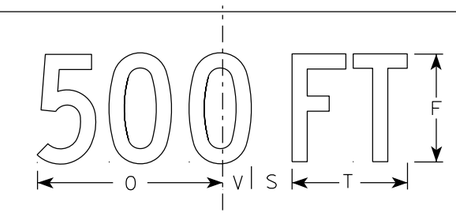
DATE 1/10/2024 PLATE NO. W20-2.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: E

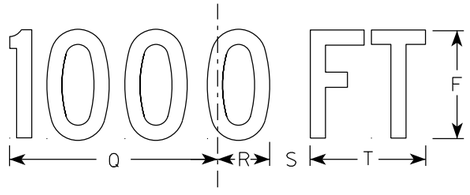
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W202.DGN PLOT DATE : 10-JAN 2024 11:36 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



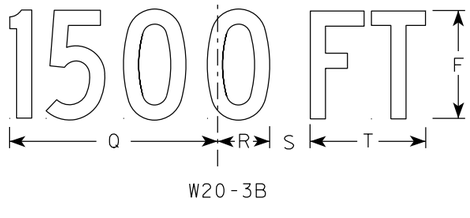
W20-3A



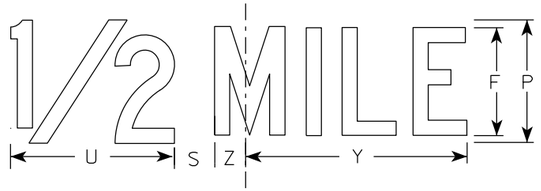
W20-3D



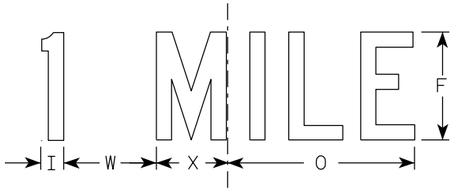
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

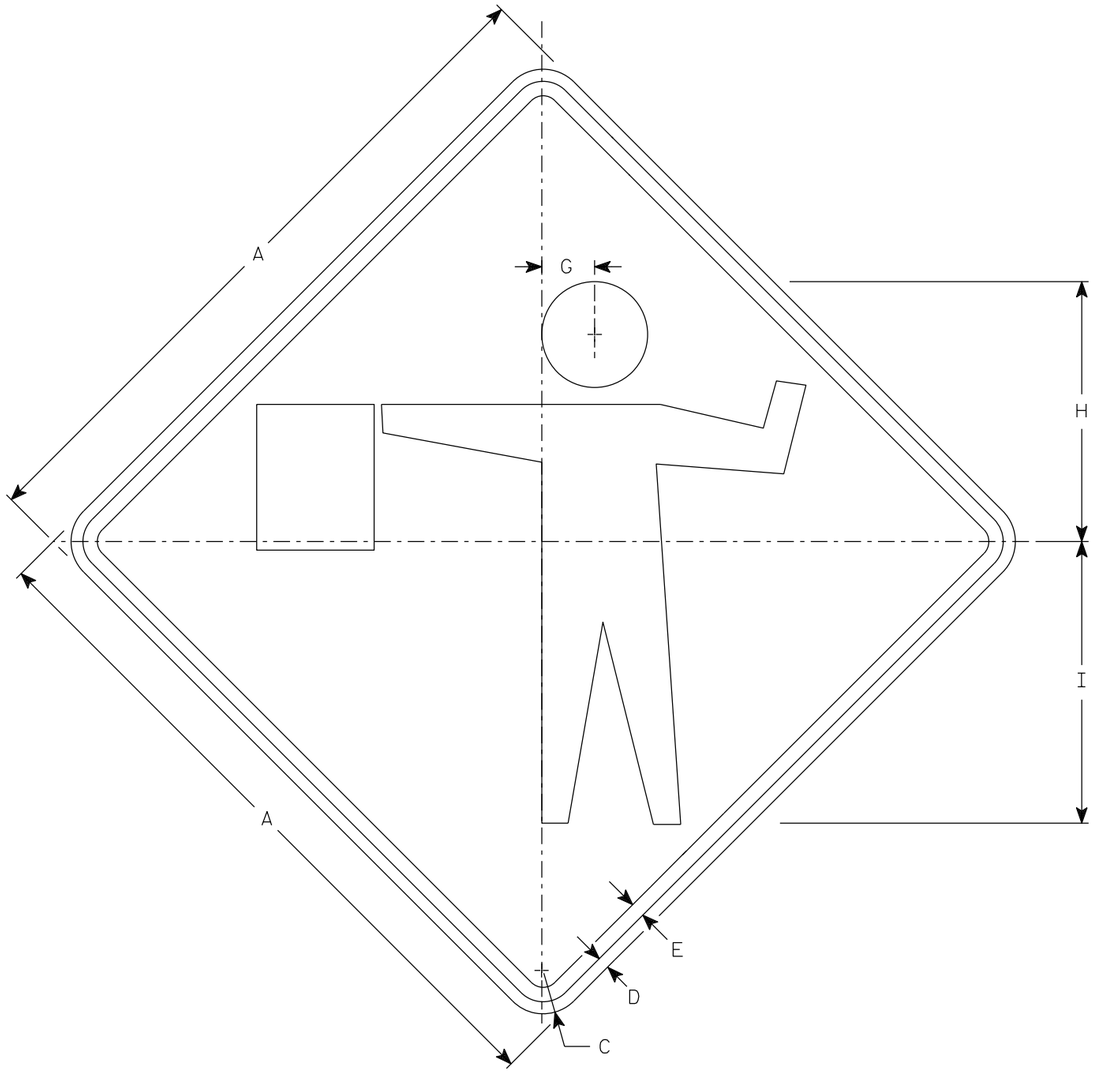
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/10/2024 PLATE NO. W20-3.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W203.DGN PLOT DATE : 10-JAN 2024 12:02 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



W20-7A

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	36		2 1/4	5/8	3/4		2 3/4	13 1/2	14 5/8																		9.0
2S	48		3	3/4	1		3 3/4	18	19 1/2																		16.0
2M	48		3	3/4	1		3 3/4	18	19 1/2																		16.0
3	48		3	3/4	1		3 3/4	18	19 1/2																		16.0
4	48		3	3/4	1		3 3/4	18	19 1/2																		16.0
5	48		3	3/4	1		3 3/4	18	19 1/2																		16.0

STANDARD SIGN
W20-7A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/10/2024 PLATE NO. W20-7A.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 171 E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W207.DGN PLOT DATE : 10-JAN 2024 2:15 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

CTH Z

STATION	DISTANCE	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)					
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	SALVAGED/UNUSABLE PAVEMENT MATERIAL	CUT 1.00	EXPANDED FILL 1.25	EXPANDED MARSH BACKFILL 1.50	EXPANDED EBS BACKFILL 1.10	MASS ORDINATE
105+04.84	0.00	8.90	17.20	0.02	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0
105+50.00	45.16	14.02	17.20	12.20	0.00	0.00	19	29	10	0	0	29	19	13	0	0	-23
105+93.71	43.71	77.94	17.20	14.62	0.00	0.00	74	28	22	0	0	57	93	40	0	0	-4
106+00.00	6.29	77.22	17.20	21.55	0.00	0.00	18	4	4	0	0	61	111	45	0	0	5
107+00.00	100.00	75.18	17.20	41.02	0.00	0.00	282	64	116	0	0	125	393	190	0	0	78
108+00.00	100.00	87.31	17.20	32.67	0.00	0.00	301	64	136	0	0	189	694	360	0	0	145
109+00.00	100.00	112.11	17.20	22.67	0.00	0.00	369	64	102	0	0	253	1,063	488	0	0	323
109+50.00	50.00	133.42	17.20	41.83	0.00	0.00	227	32	60	0	0	285	1,290	563	0	0	443
109+57.64	7.64	131.78	17.20	33.16	0.00	0.00	38	5	11	0	0	290	1,328	576	0	0	462
110+00.00	42.36	120.24	17.20	8.48	0.00	36.02	198	27	33	0	28	317	1,526	618	0	31	620
111+00.00	100.00	91.70	17.20	21.41	0.00	36.02	392	64	55	0	133	381	1,918	686	0	177	1,012
112+00.00	100.00	119.89	17.20	8.12	0.00	36.02	392	64	55	0	133	445	2,310	755	0	323	1,404
113+00.00	100.00	86.12	17.20	3.07	0.00	36.02	381	64	21	0	133	509	2,691	781	0	470	1,828
114+00.00	100.00	93.38	17.20	11.86	0.00	36.02	332	64	28	0	133	573	3,023	816	0	616	2,194
115+00.00	100.00	80.76	17.20	19.29	0.00	36.02	322	64	58	0	133	637	3,345	889	0	762	2,512
116+00.00	100.00	75.93	17.20	15.55	0.00	36.02	290	64	65	0	133	701	3,635	970	0	909	2,790
117+00.00	100.00	74.73	17.20	15.85	0.00	36.02	279	64	58	0	133	765	3,914	1,043	0	1,055	3,066
118+00.00	100.00	71.01	17.20	22.07	0.00	36.02	270	64	70	0	133	829	4,184	1,130	0	1,201	3,317
119+00.00	100.00	80.62	17.20	13.43	0.00	36.02	281	64	66	0	133	893	4,465	1,213	0	1,348	3,585
120+00.00	100.00	94.80	17.20	6.09	0.00	0.00	325	64	36	0	67	957	4,790	1,258	0	1,421	3,868
121+00.00	100.00	101.26	17.20	2.65	0.00	0.00	363	64	16	0	0	1,021	5,153	1,278	0	1,421	4,147
122+00.00	100.00	113.48	17.20	2.92	0.00	0.00	398	64	10	0	0	1,085	5,551	1,290	0	1,421	4,468
122+30.00	30.00	125.27	17.20	9.04	0.00	0.00	133	19	7	0	0	1,104	5,684	1,299	0	1,421	4,573
123+00.00	70.00	134.02	17.20	11.51	0.00	0.00	336	45	27	0	0	1,149	6,020	1,333	0	1,421	4,831
124+00.00	100.00	143.49	17.20	7.59	0.00	0.00	514	64	35	0	0	1,213	6,534	1,376	0	1,421	5,237
124+99.99	99.99	127.94	17.20	6.54	0.00	0.00	503	64	26	0	0	1,277	7,037	1,409	0	1,421	5,643
125+85.18	85.19	188.70	17.20	3.11	0.00	0.00	500	54	15	0	0	1,331	7,537	1,428	0	1,421	6,071
END CATEGORY 0020 / START CATEGORY 0010																	
125+85.18	0.00	188.70	17.20	3.11	0.00	0.00	0	0	0	0	0		0	0	0	0	0
126+00.00	14.82	201.39	17.20	3.78	0.00	0.00	107	9	2	0	0	9	107	3	0	0	96
126+12.15	12.15	207.51	17.20	4.18	0.00	0.00	92	8	2	0	0	17	199	5	0	0	177
127+00.00	87.85	106.21	17.20	12.28	0.00	0.00	510	56	27	0	0	73	709	39	0	0	597
128+00.00	100.00	107.02	17.20	17.36	0.00	0.00	395	64	55	0	0	137	1,104	108	0	0	860
129+00.00	100.00	87.77	17.20	39.66	0.00	0.00	361	64	106	0	0	201	1,465	240	0	0	1,024
129+72.71	72.71	97.94	17.20	119.78	0.00	0.00	250	46	215	0	0	247	1,715	509	0	0	959
130+00.00	27.29	78.75	17.20	55.68	0.00	0.00	89	17	89	0	0	264	1,804	620	0	0	920
131+00.00	100.00	97.98	17.20	26.18	0.00	0.00	327	64	152	0	0	328	2,131	810	0	0	993
132+00.00	100.00	76.78	17.20	23.32	0.00	0.00	324	64	92	0	0	392	2,455	925	0	0	1,138
133+00.00	100.00	60.47	17.20	30.71	0.00	0.00	254	64	100	0	0	456	2,709	1,050	0	0	1,203
134+00.00	100.00	51.50	17.20	37.96	0.00	0.00	207	64	127	0	0	520	2,916	1,209	0	0	1,187
135+00.00	100.00	59.10	17.20	30.02	0.00	0.00	205	64	126	0	0	584	3,121	1,366	0	0	1,171
136+00.00	100.00	62.69	17.20	24.86	0.00	0.00	226	64	102	0	0	648	3,347	1,494	0	0	1,205
137+00.00	100.00	70.75	17.20	14.95	0.00	0.00	247	64	74	0	0	712	3,594	1,586	0	0	1,296
138+00.00	100.00	90.71	17.20	10.22	0.00	0.00	299	64	47	0	0	776	3,893	1,645	0	0	1,472
139+00.00	100.00	130.20	17.20	37.01	0.00	0.00	409	64	87	0	0	840	4,302	1,754	0	0	1,708
140+00.00	100.00	0.00	17.20	0.00	0.00	0.00	241	64	69	0	0	904	4,543	1,840	0	0	1,799
141+00.00	100.00	139.20	17.20	19.86	0.00	0.00	258	64	37	0	0	968	4,801	1,886	0	0	1,947
142+00.00	100.00	129.14	17.20	43.51	0.00	0.00	497	64	117	0	0	1,032	5,298	2,033	0	0	2,234

CTH Z

STATION	DISTANCE	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)					
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	SALVAGED/UNUSABLE PAVEMENT MATERIAL	CUT 1.00	EXPANDED FILL 1.25	EXPANDED MARSH BACKFILL 1.50	EXPANDED EBS BACKFILL 1.10	MASS ORDINATE
143+00.00	100.00	53.75	17.20	34.53	0.00	0.00	339	64	145	0	0	1,096	5,637	2,214	0	0	2,327
144+00.00	100.00	33.77	17.20	69.43	0.00	0.00	162	64	193	0	0	1,160	5,799	2,455	0	0	2,184
145+00.00	100.00	27.66	17.20	112.07	0.00	0.00	114	64	336	0	0	1,224	5,913	2,875	0	0	1,814
146+00.00	100.00	32.62	17.20	180.90	0.00	0.00	112	64	543	0	0	1,288	6,025	3,554	0	0	1,183
147+00.00	100.00	40.30	17.20	224.21	1042.00	0.00	135	64	750	1,930	0	1,352	6,160	4,491	2,895	0	2,247
148+00.00	100.00	47.50	17.20	194.59	846.00	0.00	163	64	776	3,496	0	1,416	6,323	5,461	8,139	0	4,872
149+00.00	100.00	89.08	17.20	105.47	756.00	0.00	253	64	556	2,967	0	1,480	6,576	6,156	12,590	0	7,333
149+09.95	9.95	87.80	17.20	125.08	727.00	0.00	33	6	42	273	0	1,486	6,609	6,209	12,999	0	7,580
149+30.88	20.93	93.32	17.20	123.80	715.00	0.00	70	13	96	559	0	1,499	6,679	6,329	13,838	0	8,076
150+00.00	69.12	108.60	17.20	59.57	526.00	0.00	258	44	235	1,588	0	1,543	6,937	6,623	16,220	0	9,585
151+00.00	100.00	129.04	17.20	9.14	281.00	0.00	440	64	127	1,494	0	1,607	7,377	6,781	18,461	0	11,296
152+00.00	100.00	138.80	17.20	0.68	0.00	36.02	496	64	18	520	67	1,671	7,873	6,804	19,241	74	12,292
153+00.00	100.00	145.49	17.20	0.00	0.00	36.02	526	64	1	0	133	1,735	8,399	6,805	19,241	220	12,886
154+00.00	100.00	165.69	17.20	0.78	0.00	36.02	576	64	1	0	133	1,799	8,975	6,806	19,241	366	13,530
155+00.00	100.00	125.50	17.20	13.08	0.00	36.02	539	64	26	0	133	1,863	9,514	6,839	19,241	513	14,105
156+00.00	100.00	102.74	17.20	5.41	0.00	36.02	423	64	34	0	133	1,927	9,937	6,881	19,241	659	14,555
157+00.00	100.00	109.13	17.20	10.93	0.00	0.00	392	64	30	0	67	1,991	10,329	6,919	19,241	733	14,912
158+00.00	100.00	135.26	17.20	17.67	0.00	0.00	453	64	53	0	0	2,055	10,782	6,985	19,241	733	15,235
159+00.00	100.00	105.10	17.20	51.71	0.00	0.00	445	64	128	0	0	2,119	11,227	7,145	19,241	733	15,456
160+00.00	100.00	112.18	17.20	55.13	0.00	0.00	402	64	198	0	0	2,183	11,629	7,393	19,241	733	15,547
160+52.11	52.11	117.95	17.20	104.86	0.00	36.02	222	33	154	0	35	2,216	11,851	7,585	19,241	771	15,578
161+00.00	47.89	113.58	17.20	44.37	0.00	36.02	205	31	132	0	64	2,247	12,056	7,750	19,241	842	15,651
162+00.00	100.00	100.60	17.20	15.32	0.00	36.02	397	64	111	0	133	2,311	12,453	7,889	19,241	988	15,978
163+00.00	100.00	122.83	17.20	9.34	0.00	36.02	414	64	46	0	133	2,375	12,867	7,946	19,241	1,134	16,404
164+00.00	100.00	102.86	17.20	11.15	0.00	36.01	418	64	38	0	133	2,439	13,285	7,994	19,241	1,280	16,843
165+00.00	100.00	102.67	17.20	22.49	0.00	36.02	381	64	62	0	133	2,503	13,666	8,071	19,241	1,427	17,216
166+00.00	100.00	71.21	17.20	27.89	0.00	36.02	322	64	93	0	133	2,567	13,988	8,188	19,241	1,573	17,491
167+00.00	100.00	68.10	17.20	28.39	0.00	36.02	258	64	104	0	133	2,631	14,246	8,318	19,241	1,719	17,688
168+00.00	100.00	70.60	17.20	25.11	0.00	36.02	257	64	99	0	133	2,695	14,503	8,441	19,241	1,866	17,890
169+00.00	100.00	73.47	17.20	19.87	0.00	36.02	267	64	83	0	133	2,759	14,770	8,545	19,241	2,012	18,122
170+00.00	100.00	78.68	17.20	32.73	0.00	41.76	282	64	97	0	144	2,823	15,052	8,666	19,241	2,170	18,363
171+00.00	100.00	77.88	17.20	33.97	0.00	0.00	290	64	124	0	77	2,887	15,342	8,821	19,241	2,255	18,511
172+00.00	100.00	83.43	17.20	27.74	0.00	0.00	299	64	114	0	0	2,951	15,641	8,964	19,241	2,255	18,603
173+00.00	100.00	142.90	17.20	17.39	0.00	0.00	419	64	84	0	0	3,015	16,060	9,069	19,241	2,255	18,853
173+31.48	31.48	194.07	17.20	21.65	0.00	0.00	196	20	23	0	0	3,035	16,256	9,098	19,241	2,255	19,001
173+60.00	28.52	174.94	17.20	22.75	0.00	0.00	195	18	23	0	0	3,053	16,451	9,126	19,241	2,255	19,149
174+00.00	40.00	350.09	17.20	10.91	0.00	0.00	389	25	25	0	0	3,078	16,840	9,158	19,241	2,255	19,482
174+22.81	22.81	440.37	17.20	0.00	0.00	0.00	334	15	5	0	0	3,093	17,174	9,164	19,241	2,255	19,794
174+70.00	47.19	384.31	17.20	0.55	0.00	0.00	721	30	0	0	0	3,123	17,895	9,164	19,241	2,255	20,485
175+00.00	30.00	262.86	17.20	14.31	0.00	0.00	360	19	8	0	0	3,142	18,255	9,174	19,241	2,255	20,816
175+12.80	12.80	234.71	17.20	7.48	0.00	0.00	118	8	5	0	0	3,150	18,373	9,180	19,241	2,255	20,920
175+82.43	69.63	143.35	17.20	117.01	0.00	0.00	487	44	161	0	0	3,194	18,860	9,381	19,241	2,255	21,162
176+00.00	17.57	142.45	17.20	123.70	0.00	0.00	93	11	78	0	0	3,205	18,953	9,479	19,241	2,255	21,146
176+07.36	7.36	141.95	17.20	122.81	0.00	0.00	39	5	34	0	0	3,210	18,992	9,521	19,241	2,255	21,138
176+32.40	25.04	145.77	17.20	70.54	0.00	0.00	133	16	90	0	0	3,226	19,125	9,634	19,241	2,255	21,142

CTH Z

STATION	DISTANCE	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)					
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	SALVAGED/UNUSABLE PAVEMENT MATERIAL	CUT 1.00	EXPANDED FILL 1.25	EXPANDED MARSH BACKFILL 1.50	EXPANDED EBS BACKFILL 1.10	MASS ORDINATE
177+00.00	67.60	204.14	17.20	0.00	0.00	0.00	438	43	88	0	0	3,269	19,563	9,744	19,241	2,255	21,427
177+13.11	13.11	205.54	17.20	0.00	0.00	0.00	99	8	0	0	0	3,277	19,662	9,744	19,241	2,255	21,518
177+92.80	79.69	239.22	17.20	45.96	0.00	0.00	656	51	68	0	0	3,328	20,318	9,829	19,241	2,255	22,038
178+00.00	7.20	239.47	17.20	53.25	0.00	0.00	64	5	13	0	0	3,333	20,382	9,845	19,241	2,255	22,081
178+17.80	17.80	230.37	17.20	49.71	0.00	0.00	155	11	34	0	0	3,344	20,537	9,888	19,241	2,255	22,183
178+42.80	25.00	242.62	17.20	24.07	0.00	0.00	219	16	34	0	0	3,360	20,756	9,930	19,241	2,255	22,343
178+63.10	20.30	285.37	17.20	6.72	0.00	0.00	198	13	12	0	0	3,373	20,954	9,945	19,241	2,255	22,513
178+88.14	25.04	370.29	17.20	3.45	0.00	0.00	304	16	5	0	0	3,389	21,258	9,951	19,241	2,255	22,795
179+00.00	11.86	385.51	17.20	3.57	0.00	0.00	166	8	2	0	0	3,397	21,424	9,954	19,241	2,255	22,950
179+13.13	13.13	390.54	17.20	3.07	0.00	0.00	189	8	2	0	0	3,405	21,613	9,956	19,241	2,255	23,129
179+46.52	33.39	357.17	17.20	1.57	0.00	0.00	462	21	3	0	0	3,426	22,075	9,960	19,241	2,255	23,566
180+00.00	53.48	359.45	17.20	0.00	0.00	37.28	710	34	2	0	37	3,460	22,785	9,963	19,241	2,296	24,277
180+19.25	19.25	307.59	17.20	0.00	0.00	36.04	238	12	0	0	26	3,472	23,023	9,963	19,241	2,324	24,529
181+00.00	80.75	298.80	17.20	0.08	0.00	36.02	907	51	0	0	108	3,523	23,930	9,963	19,241	2,443	25,493
182+00.00	100.00	327.84	17.20	0.95	0.00	36.02	1,160	64	2	0	133	3,587	25,090	9,965	19,241	2,589	26,719
183+00.00	100.00	231.72	17.20	3.32	0.00	36.02	1,036	64	8	0	133	3,651	26,126	9,975	19,241	2,736	27,814
184+00.00	100.00	183.68	17.20	5.05	0.00	36.02	769	64	15	0	133	3,715	26,895	9,994	19,241	2,882	28,633
185+00.00	100.00	161.79	17.20	11.15	0.00	36.02	640	64	30	0	133	3,779	27,535	10,031	19,241	3,028	29,305
186+00.00	100.00	152.46	17.20	2.66	0.00	36.02	582	64	26	0	133	3,843	28,117	10,064	19,241	3,175	29,923
187+00.00	100.00	145.12	17.20	6.24	0.00	0.00	551	64	16	0	67	3,907	28,668	10,084	19,241	3,248	30,457
188+00.00	100.00	165.37	17.20	0.77	0.00	0.00	575	64	13	0	0	3,971	29,243	10,100	19,241	3,248	30,952
189+00.00	100.00	166.76	17.20	6.81	0.00	0.00	615	64	14	0	0	4,035	29,858	10,118	19,241	3,248	31,486
190+00.00	100.00	236.99	17.20	1.49	0.00	0.00	748	64	15	0	0	4,099	30,606	10,136	19,241	3,248	32,151
191+00.00	100.00	236.29	17.20	0.00	0.00	0.00	876	64	3	0	0	4,163	31,482	10,140	19,241	3,248	32,959
192+00.00	100.00	172.65	17.20	8.58	0.00	0.00	757	64	16	0	0	4,227	32,239	10,160	19,241	3,248	33,632
192+68.39	68.39	240.13	17.20	25.01	0.00	0.00	523	44	43	0	0	4,271	32,762	10,214	19,241	3,248	34,057
193+00.00	31.61	144.04	17.20	39.60	0.00	0.00	225	20	38	0	0	4,291	32,987	10,261	19,241	3,248	34,215
194+00.00	100.00	77.64	17.20	19.81	0.00	0.00	411	64	110	0	0	4,355	33,398	10,399	19,241	3,248	34,424
195+00.00	100.00	65.53	17.20	40.06	0.00	0.00	265	64	111	0	0	4,419	33,663	10,538	19,241	3,248	34,487
196+00.00	100.00	69.65	17.20	63.20	0.00	0.00	250	64	191	0	0	4,483	33,913	10,776	19,241	3,248	34,434
197+00.00	100.00	80.57	17.20	149.10	0.00	0.00	278	64	393	0	0	4,547	34,191	11,268	19,241	3,248	34,157
197+63.29	63.29	161.88	17.20	157.31	0.00	0.00	284	40	359	0	0	4,587	34,475	11,716	19,241	3,248	33,952
198+00.00	36.71	171.53	17.20	113.82	0.00	0.00	227	23	184	0	0	4,610	34,702	11,946	19,241	3,248	33,926
198+15.42	15.42	181.49	17.20	173.83	0.00	0.00	101	10	82	0	0	4,620	34,803	12,049	19,241	3,248	33,914
199+00.00	84.58	109.96	17.20	170.77	0.00	0.00	457	54	540	0	0	4,674	35,260	12,724	19,241	3,248	33,642
200+00.00	100.00	117.13	17.20	65.86	0.00	0.00	421	64	438	0	0	4,738	35,681	13,271	19,241	3,248	33,452
201+00.00	100.00	115.21	17.20	48.44	0.00	0.00	430	64	212	0	0	4,802	36,111	13,536	19,241	3,248	33,553
202+00.00	100.00	93.15	17.20	36.10	0.00	0.00	386	64	157	0	0	4,866	36,497	13,733	19,241	3,248	33,679
203+00.00	100.00	102.88	17.20	20.28	0.00	0.00	363	64	104	0	0	4,930	36,860	13,863	19,241	3,248	33,848
204+00.00	100.00	90.28	17.20	19.64	0.00	0.00	358	64	74	0	0	4,994	37,218	13,955	19,241	3,248	34,049
205+00.00	100.00	74.45	17.20	35.61	0.00	0.00	305	64	102	0	0	5,058	37,523	14,083	19,241	3,248	34,163
206+00.00	100.00	156.33	17.20	2.23	0.00	0.00	427	64	70	0	0	5,122	37,950	14,170	19,241	3,248	34,438
206+06.78	6.78	170.37	17.20	0.16	0.00	0.00	41	4	0	0	0	5,126	37,991	14,170	19,241	3,248	34,475
207+00.00	93.22	69.63	17.20	41.52	0.00	0.00	414	59	72	0	0	5,185	38,405	14,260	19,241	3,248	34,740
208+00.00	100.00	67.90	17.20	33.83	0.00	0.00	255	64	140	0	0	5,249	38,660	14,435	19,241	3,248	34,756

CTH Z

STATION	DISTANCE	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)					
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	SALVAGED/UNUSABLE PAVEMENT MATERIAL	CUT 1.00	EXPANDED FILL 1.25	EXPANDED MARSH BACKFILL 1.50	EXPANDED EBS BACKFILL 1.10	MASS ORDINATE
209+00.00	100.00	118.29	17.20	4.19	0.00	0.00	345	64	70	0	0	5,313	39,005	14,523	19,241	3,248	34,950
210+00.00	100.00	86.10	17.20	27.86	0.00	0.00	378	64	59	0	0	5,377	39,383	14,596	19,241	3,248	35,190
211+00.00	100.00	83.97	17.20	23.67	0.00	0.00	315	64	95	0	0	5,441	39,698	14,715	19,241	3,248	35,322
212+00.00	100.00	86.41	17.20	27.38	0.00	0.00	316	64	95	0	0	5,505	40,014	14,834	19,241	3,248	35,455
213+00.00	100.00	95.27	17.20	31.21	0.00	0.00	336	64	108	0	0	5,569	40,350	14,969	19,241	3,248	35,592
213+50.00	50.00	107.83	17.20	49.12	0.00	0.00	188	32	74	0	0	5,601	40,538	15,061	19,241	3,248	35,656
214+00.00	50.00	85.40	17.20	41.53	0.00	0.00	179	32	84	0	0	5,633	40,717	15,166	19,241	3,248	35,698
215+00.00	100.00	69.54	17.20	32.64	0.00	0.00	287	64	137	0	0	5,697	41,004	15,338	19,241	3,248	35,750
216+00.00	100.00	75.55	17.20	17.61	0.00	0.00	269	64	93	0	0	5,761	41,273	15,454	19,241	3,248	35,838
217+00.00	100.00	85.97	17.20	21.16	0.00	0.00	299	64	72	0	0	5,825	41,572	15,544	19,241	3,248	35,983
217+99.99	99.99	103.16	17.20	13.08	0.00	0.00	350	64	63	0	0	5,889	41,922	15,623	19,241	3,248	36,191
219+00.00	100.01	93.92	17.20	6.98	0.00	0.00	365	64	37	0	0	5,953	42,287	15,669	19,241	3,248	36,445
220+00.00	100.00	102.01	17.20	30.97	0.00	0.00	363	64	70	0	0	6,017	42,650	15,756	19,241	3,248	36,657
221+00.00	100.00	105.32	17.20	71.87	0.00	0.00	384	64	190	0	0	6,081	43,034	15,994	19,241	3,248	36,739
221+50.00	50.00	104.57	17.20	135.20	0.00	0.00	194	32	192	0	0	6,113	43,228	16,234	19,241	3,248	36,661
222+00.00	50.00	107.20	17.20	93.10	0.00	0.00	196	32	211	0	0	6,145	43,424	16,498	19,241	3,248	36,562
223+00.00	100.00	96.33	17.20	70.88	0.00	0.00	377	64	304	0	0	6,209	43,801	16,878	19,241	3,248	36,495
224+00.00	100.00	93.77	17.20	57.13	0.00	0.00	352	64	237	0	0	6,273	44,153	17,174	19,241	3,248	36,486
225+00.00	100.00	101.51	17.20	34.53	0.00	36.02	362	64	170	0	67	6,337	44,515	17,386	19,241	3,322	36,639
226+00.00	100.00	102.07	17.20	11.71	0.00	36.02	377	64	86	0	133	6,401	44,892	17,494	19,241	3,468	36,977
227+00.00	100.00	96.98	17.20	6.38	0.00	36.02	369	64	34	0	133	6,465	45,261	17,536	19,241	3,615	37,373
228+00.01	100.01	131.62	17.20	2.02	0.00	36.02	423	64	16	0	133	6,529	45,684	17,556	19,241	3,761	37,845
229+00.00	99.99	165.54	17.20	0.08	0.00	36.03	550	64	4	0	133	6,593	46,234	17,561	19,241	3,907	38,459
230+00.00	100.00	219.44	17.20	0.80	0.00	43.50	713	64	2	0	147	6,657	46,947	17,564	19,241	4,069	39,252
231+00.00	100.00	217.33	17.20	0.26	0.00	45.02	809	64	2	0	164	6,721	47,756	17,566	19,241	4,249	40,159
232+00.00	100.00	212.82	17.20	4.18	0.00	53.02	797	64	8	0	182	6,785	48,553	17,576	19,241	4,450	41,064
232+90.37	90.37	357.85	17.20	0.00	0.00	64.31	955	58	7	0	196	6,843	49,508	17,585	19,241	4,665	42,148
233+00.00	9.63	337.16	17.20	0.00	0.00	63.62	124	6	0	0	23	6,849	49,632	17,585	19,241	4,690	42,289
233+36.22	36.22	125.01	17.20	78.83	0.00	52.28	310	23	53	0	78	6,872	49,942	17,651	19,241	4,776	42,588
233+61.16	24.94	154.80	17.20	26.53	0.00	50.92	129	16	49	0	48	6,888	50,071	17,713	19,241	4,829	42,688
234+00.00	38.84	114.77	17.20	32.72	0.00	45.84	194	25	43	0	70	6,913	50,265	17,766	19,241	4,906	42,873
234+54.55	54.55	78.57	17.20	32.51	0.00	37.94	195	35	66	0	85	6,948	50,460	17,849	19,241	5,000	43,035
235+00.00	45.45	14.96	17.20	35.11	0.00	0.00	79	29	57	0	32	6,977	50,539	17,920	19,241	5,035	43,046
236+00.00	100.00	14.79	17.20	28.78	0.00	0.00	55	64	118	0	0	7,041	50,594	18,068	19,241	5,035	42,890
237+00.00	100.00	12.47	17.20	10.15	0.00	0.00	50	64	72	0	0	7,105	50,644	18,158	19,241	5,035	42,786
237+23.76	23.76	10.18	17.20	0.00	0.00	0.00	10	15	4	0	0	7,120	50,654	18,163	19,241	5,035	42,776

KAVANAUGH RD

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)			
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	SALVAGED/UNUSABLE PAVEMENT MATERIAL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
303+61.95	0.00	32.05	17.20	0.00	0	0	0	0	0	0	0
304+00.00	38.05	94.35	17.20	0.00	89	24	0	24	89	0	65
304+30.56	30.56	0.00	17.20	0.00	53	19	0	43	142	0	99
304+60.00	29.44	230.63	17.20	0.89	126	19	0	62	268	0	206

CTH GG - SOUTH

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)			
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	SALVAGED/UNUSABLE PAVEMENT MATERIAL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
403+56.88	0.00	2.22	17.20	0.00	0	0	0	0	0	0	0
403+85.55	28.67	89.97	17.20	0.27	49	18	0	18	49	0	31
404+00.00	14.45	87.09	17.20	5.96	47	9	2	27	96	3	67
404+82.07	82.07	141.29	17.20	0.06	347	52	9	79	443	14	350
405+00.00	17.93	184.96	17.20	0.00	108	11	0	90	551	14	447
405+08.45	8.45	190.64	17.20	0.00	59	5	0	95	610	14	501
405+32.08	23.63	200.58	17.20	11.10	171	15	5	110	781	20	651
405+60.00	27.92	251.50	17.20	4.87	234	18	8	128	1,015	30	857

CTH GG - NORTH

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)			
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	SALVAGED/UNUSABLE PAVEMENT MATERIAL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
406+65.00	0.00	218.66	17.20	16.34	0	0	0	0	0	0	0	0	0
407+00.00	35.00	142.79	17.20	5.48	234	22	14	0	0	22	234	18	195
407+50.00	50.00	105.66	17.20	0.71	230	32	6	0	0	54	464	25	385
408+00.00	50.00	89.01	17.20	2.72	180	32	3	0	0	86	644	29	529
408+34.71	34.71	78.50	17.20	0.00	108	22	2	0	0	108	752	31	613

POWERS RD

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)			
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	SALVAGED/UNUSABLE PAVEMENT MATERIAL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
503+50.00	0.00	36.62	17.20	0.00	0	0	0	0	0	0	0
504+00.00	50.00	43.42	17.20	0.65	74	32	1	32	74	1	41
504+40.00	40.00	108.27	17.20	6.35	112	25	5	57	186	8	122

CLUNE RD

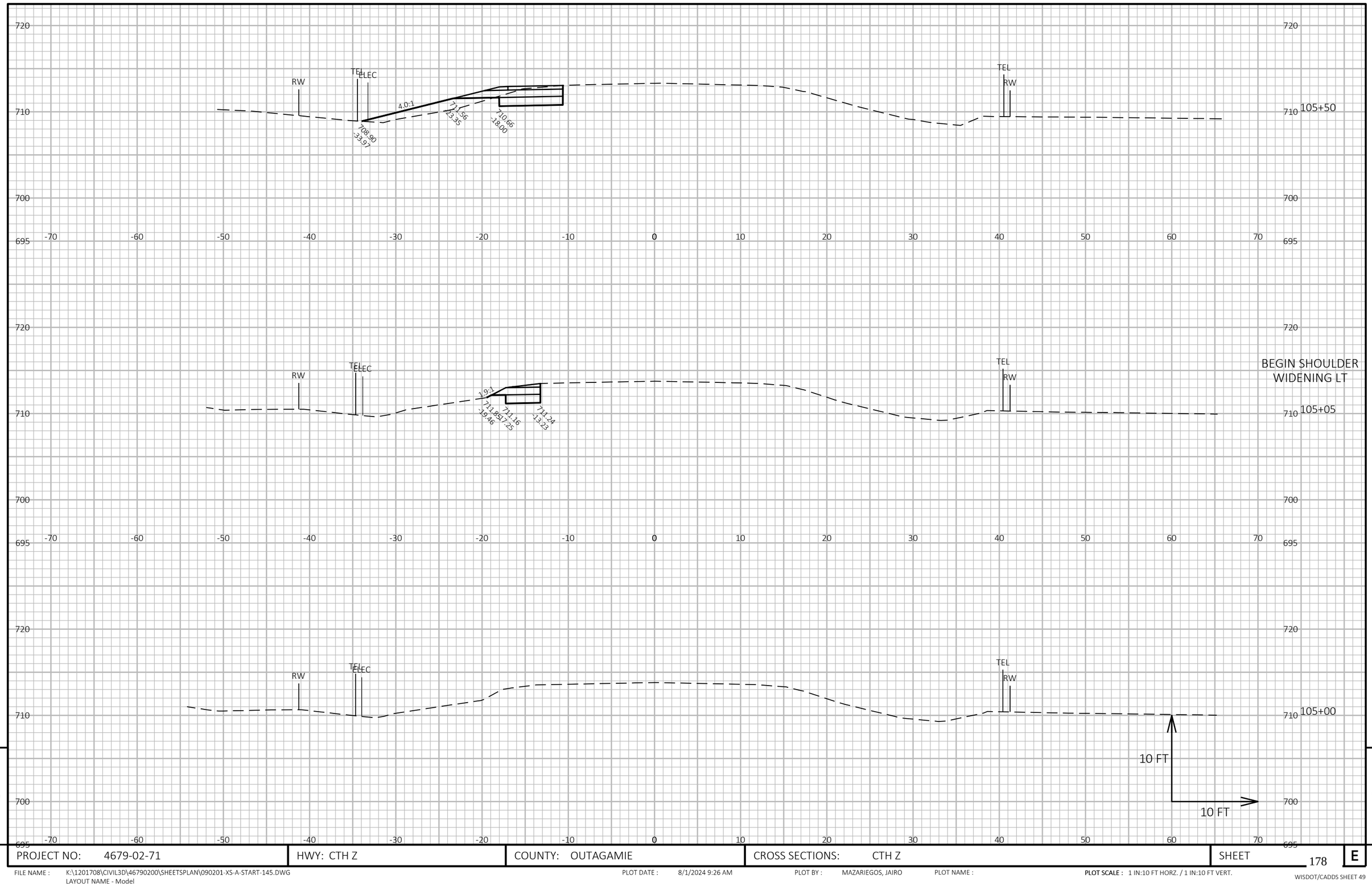
STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)			
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	SALVAGED/UNUSABLE PAVEMENT MATERIAL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
600+55.24	0.00	63.97	17.20	96.26	0	0	0	0	0	0	0
601+00.00	44.76	27.51	17.20	11.12	76	29	89	29	76	111	-64
601+50.00	50.00	35.13	17.20	1.69	58	32	12	61	134	126	-53
601+58.54	8.54	36.84	17.20	0.03	11	5	0	66	145	126	-47

OUTAGAMIE RD - SOUTH

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)			
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	SALVAGED/UNUSABLE PAVEMENT MATERIAL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
701+65.98	0.00	39.38	17.20	1.06	0	0	0	0	0	0	0
702+00.00	34.02	41.18	17.20	5.39	51	22	4	22	51	5	24
702+60.22	60.22	238.05	17.20	30.40	311	38	40	60	362	55	247

OUTAGAMIE RD - NORTH

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)			
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	SALVAGED/UNUSABLE PAVEMENT MATERIAL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
703+80.87	0.00	147.22	17.20	66.68	0	0	0	0	0	0	0
704+00.00	19.13	70.67	17.20	42.03	77	12	39	12	77	49	16
704+50.00	50.00	70.60	17.20	26.22	131	32	63	44	208	128	37
704+81.07	31.07	36.94	17.20	8.57	62	20	20	64	270	153	54



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PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 178	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-A-START-145.DWG
LAYOUT NAME - Model

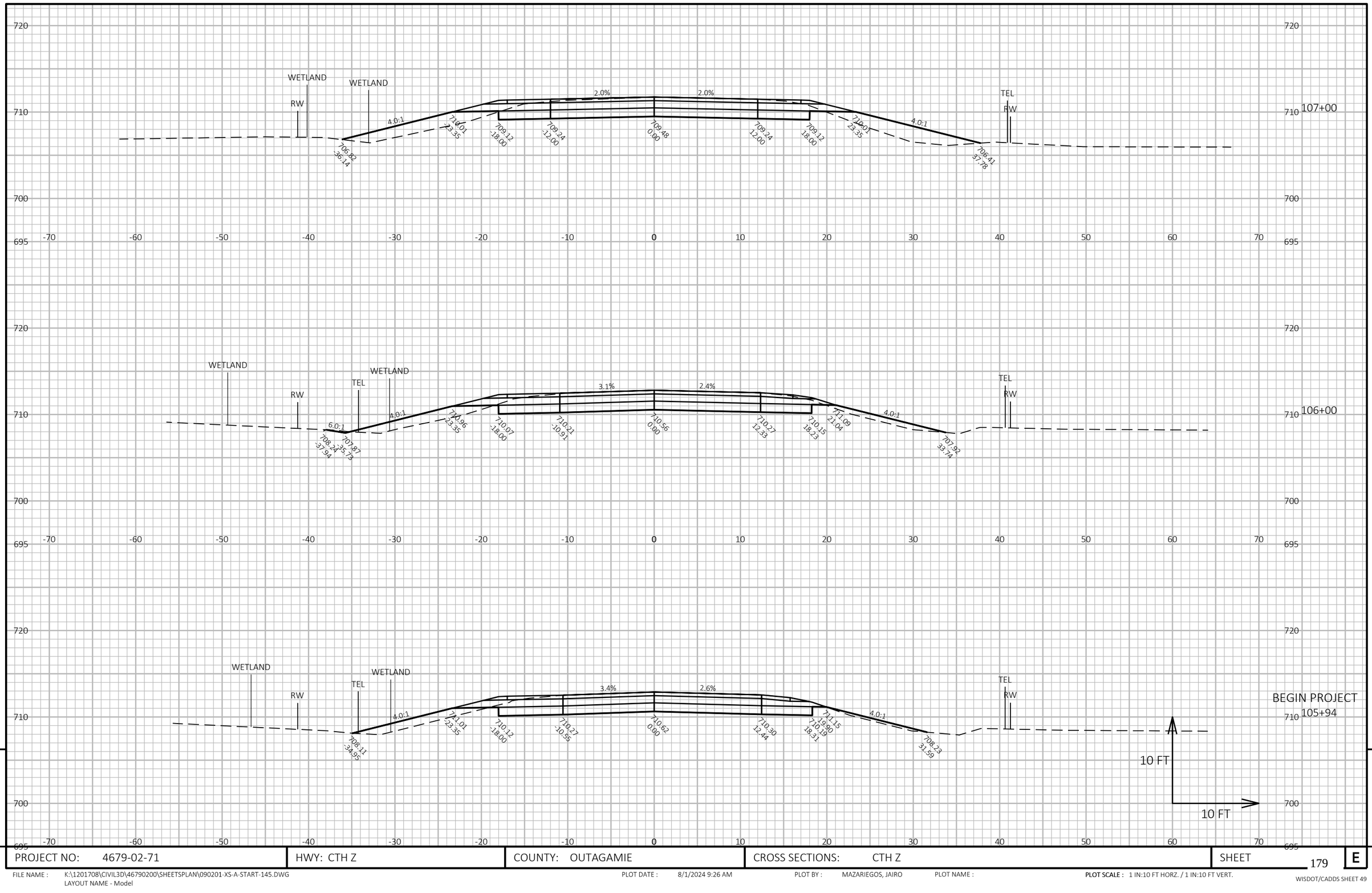
PLOT DATE : 8/1/2024 9:26 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

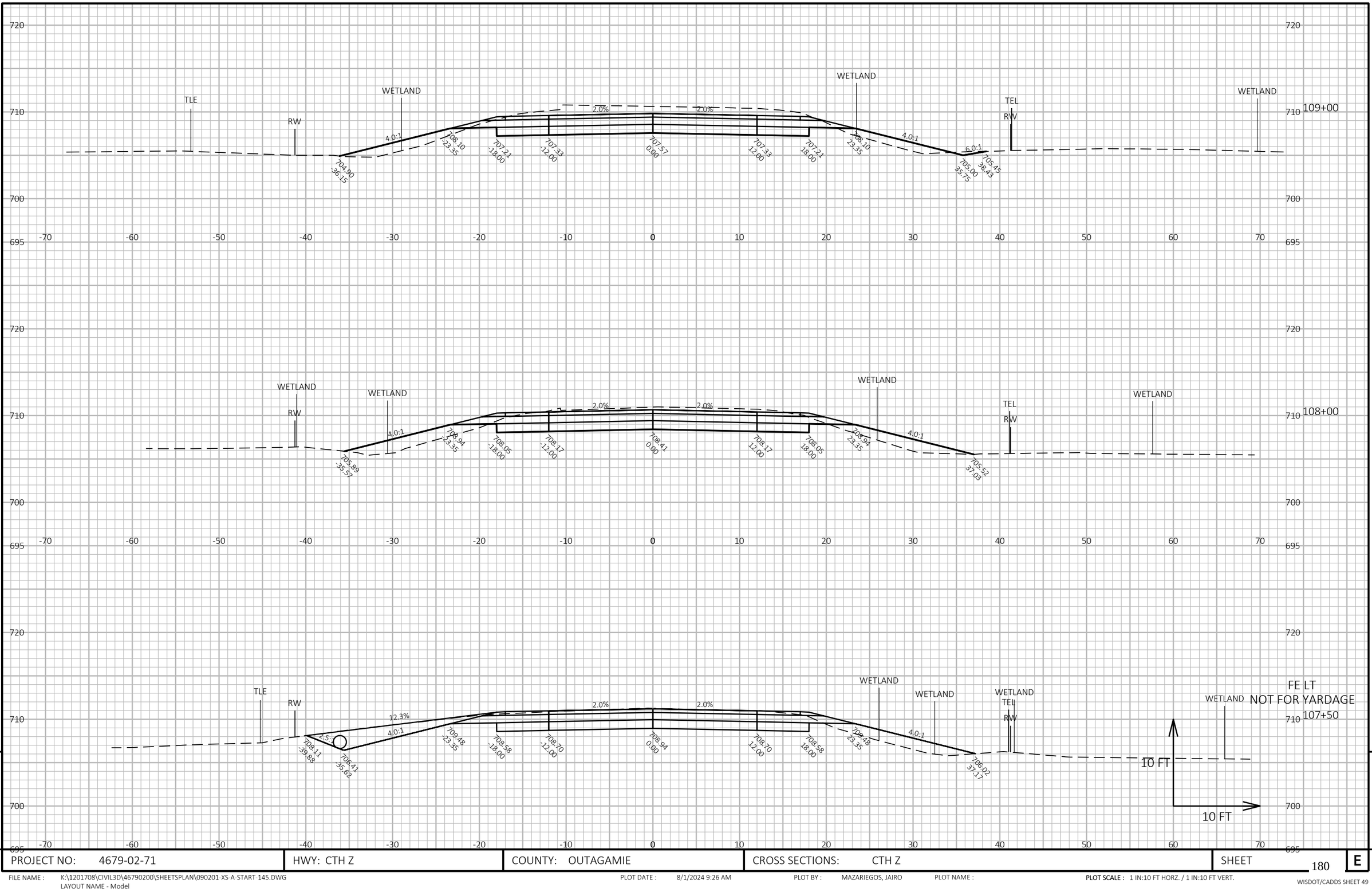


PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 179 E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-A-START-145.DWG
LAYOUT NAME - Model

PLOT DATE : 8/1/2024 9:26 AM PLOT BY : MAZARIEGOS, JAIRO PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 180	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-A-START-145.DWG
LAYOUT NAME - Model

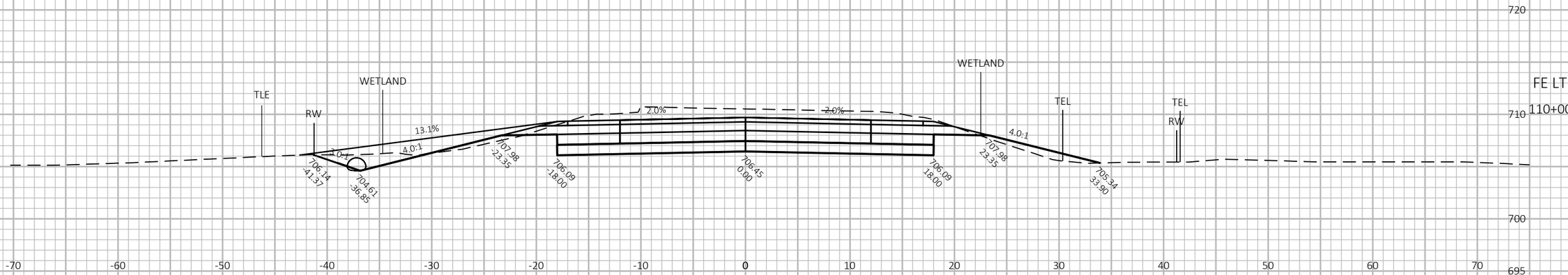
PLOT DATE : 8/1/2024 9:26 AM

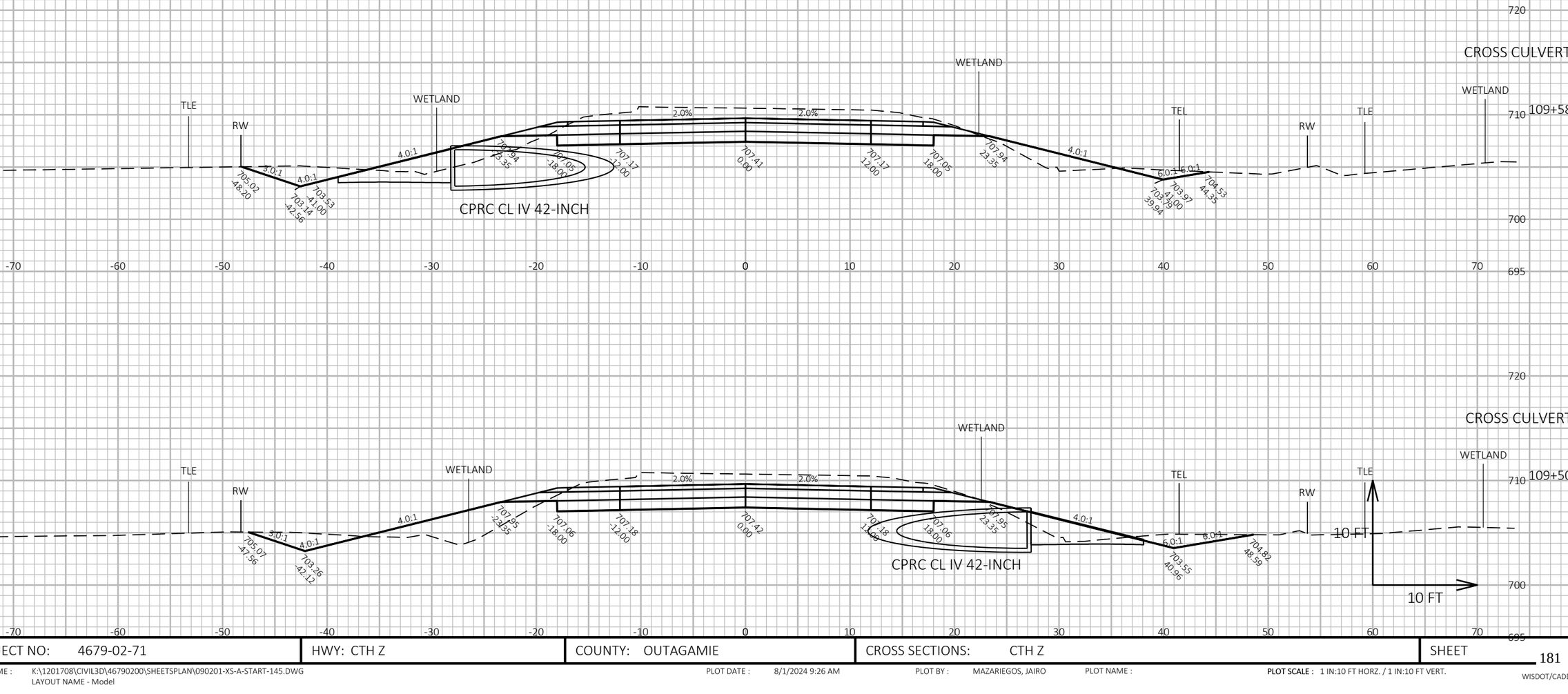
PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





CROSS CULVERT LT

CROSS CULVERT RT

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PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 181	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-A-START-145.DWG
LAYOUT NAME - Model

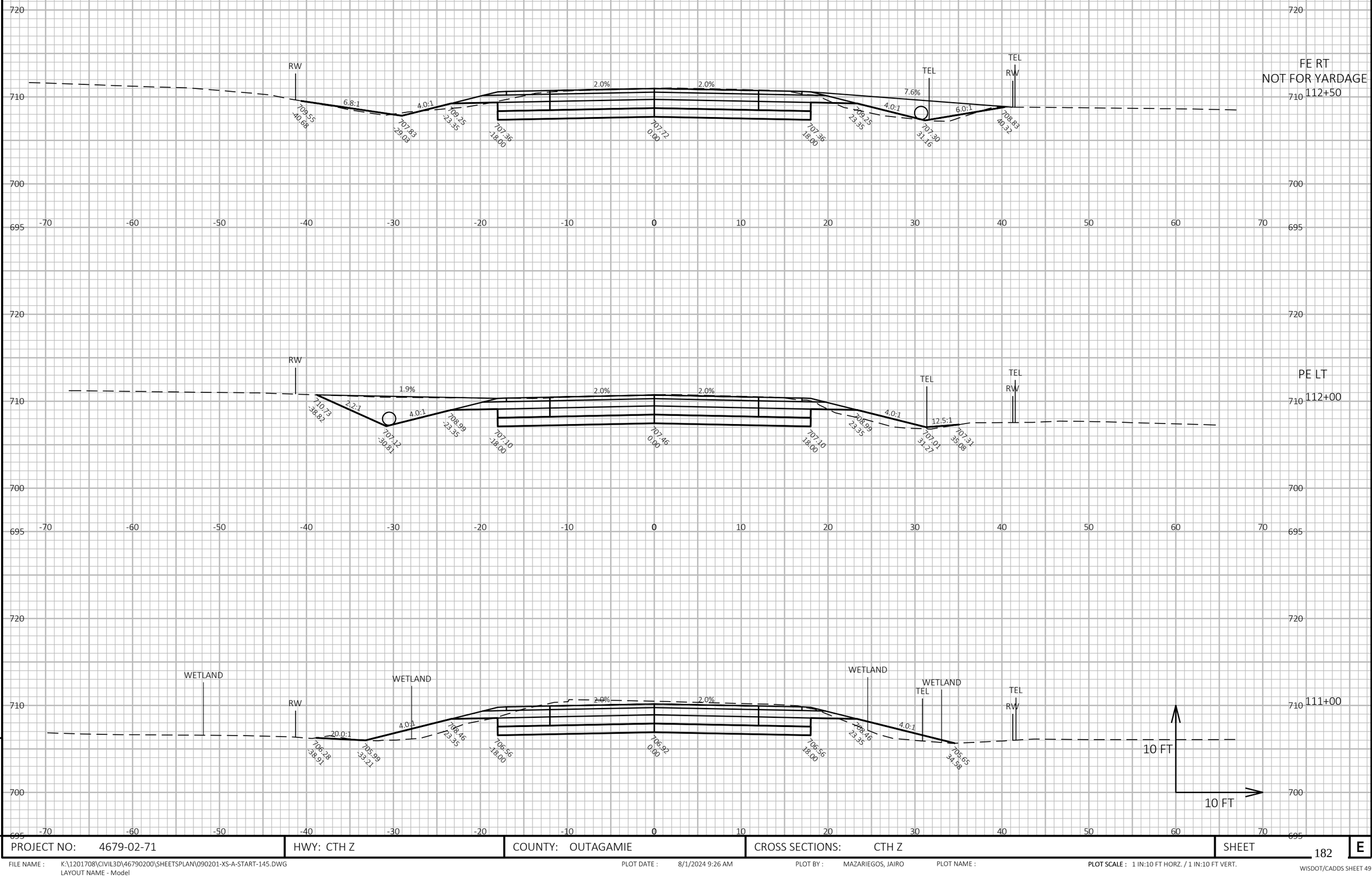
PLOT DATE : 8/1/2024 9:26 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 182	E

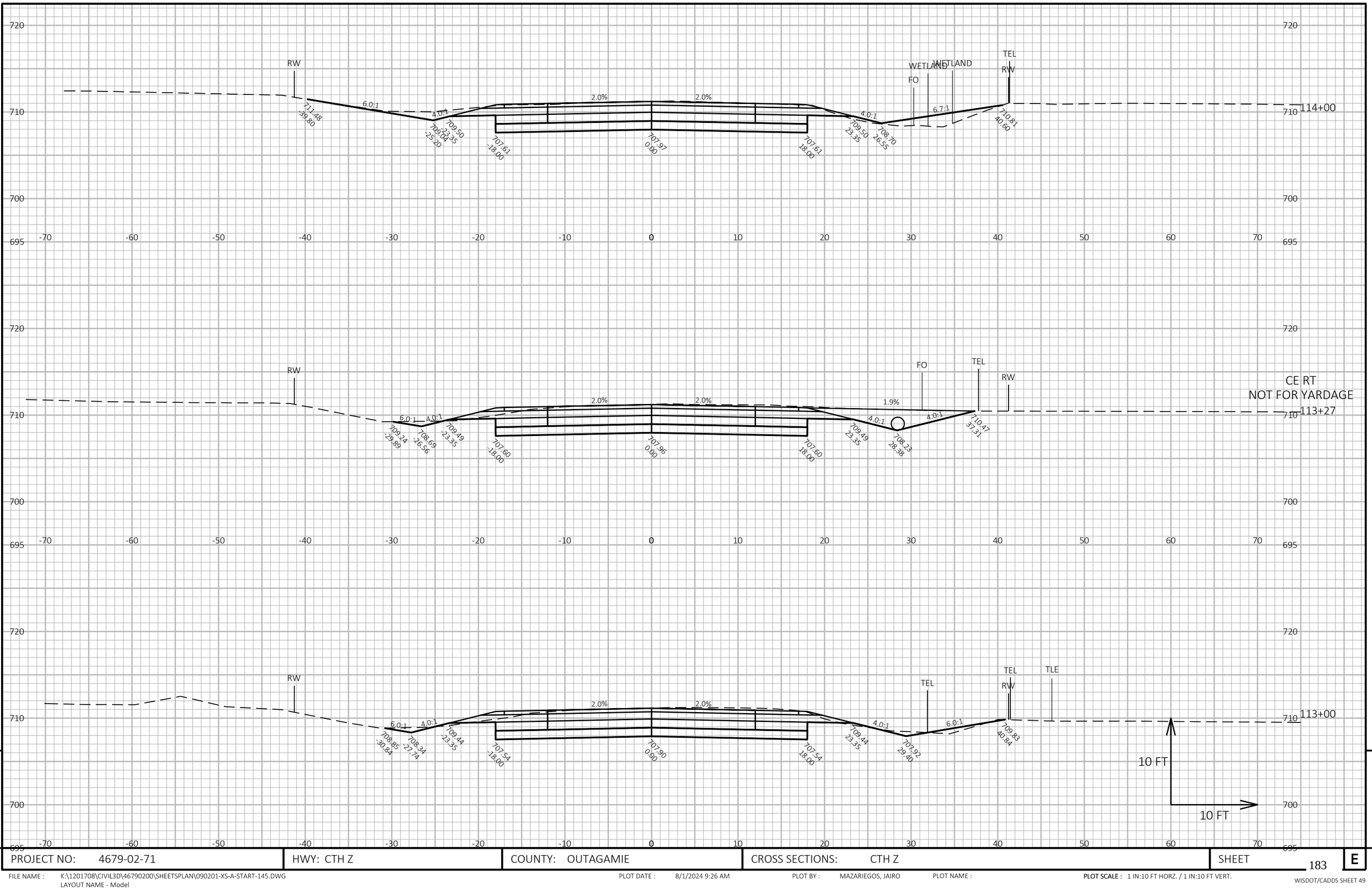
FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-A-START-145.DWG
LAYOUT NAME - Model

PLOT DATE : 8/1/2024 9:26 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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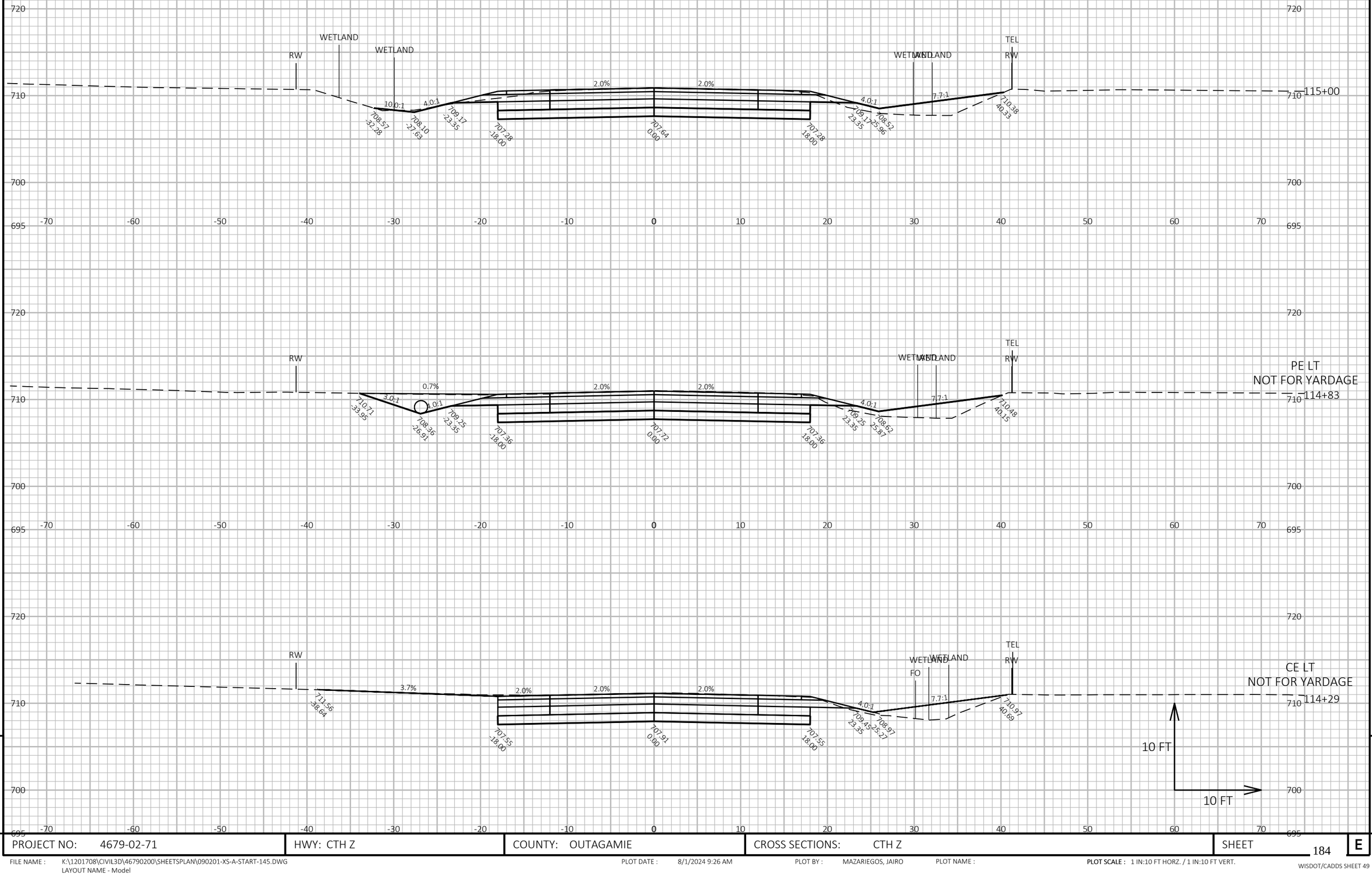
PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 183	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-A-START-145.DWG
LAYOUT NAME - Model

PLOT DATE : 8/1/2024 9:26 AM PLOT BY : MAZARIEGOS, JAIRO PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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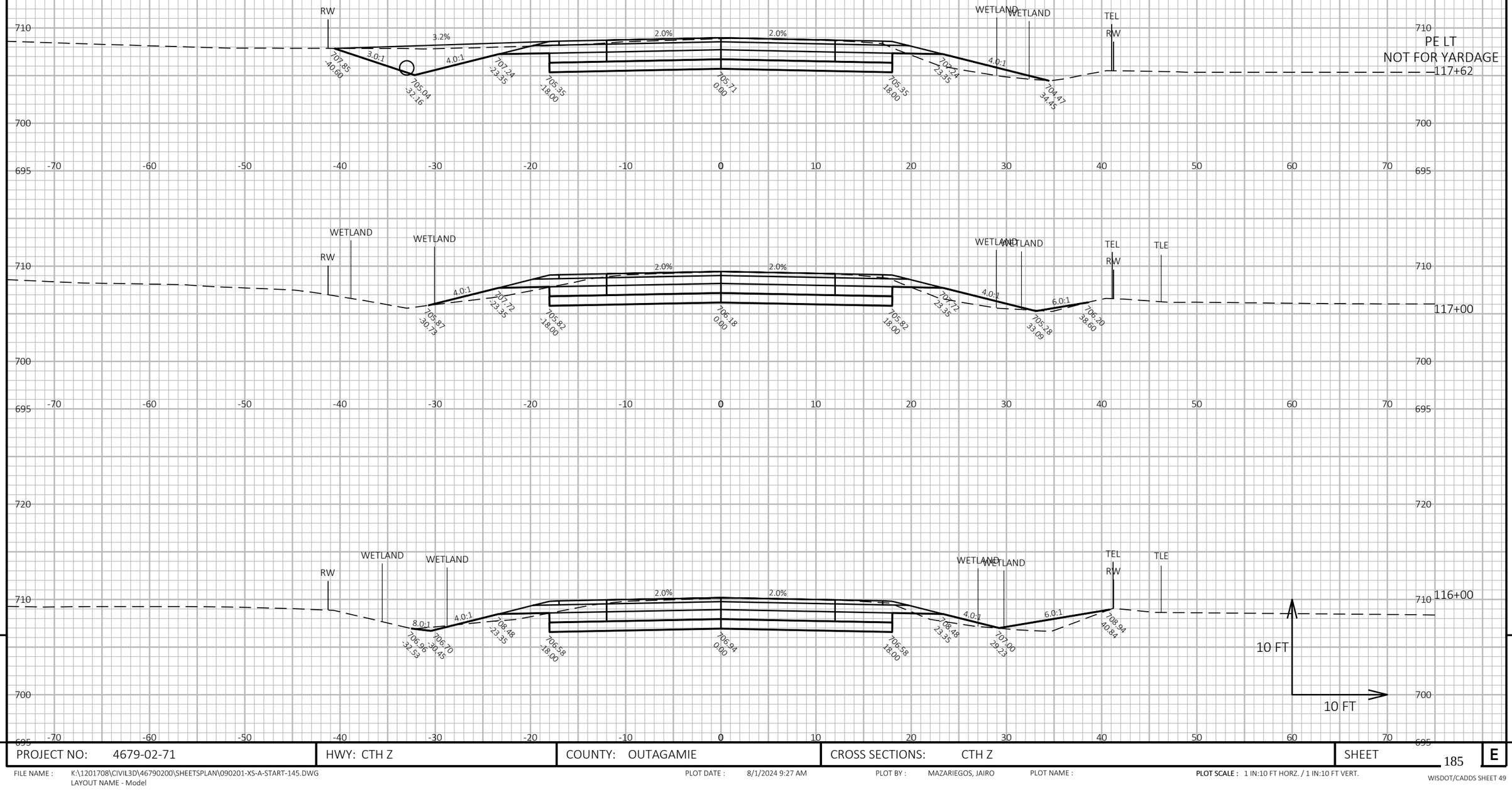
PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 184	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-A-START-145.DWG
LAYOUT NAME - Model

PLOT DATE : 8/1/2024 9:26 AM PLOT BY : MAZARIEGOS, JAIRO PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 185	E

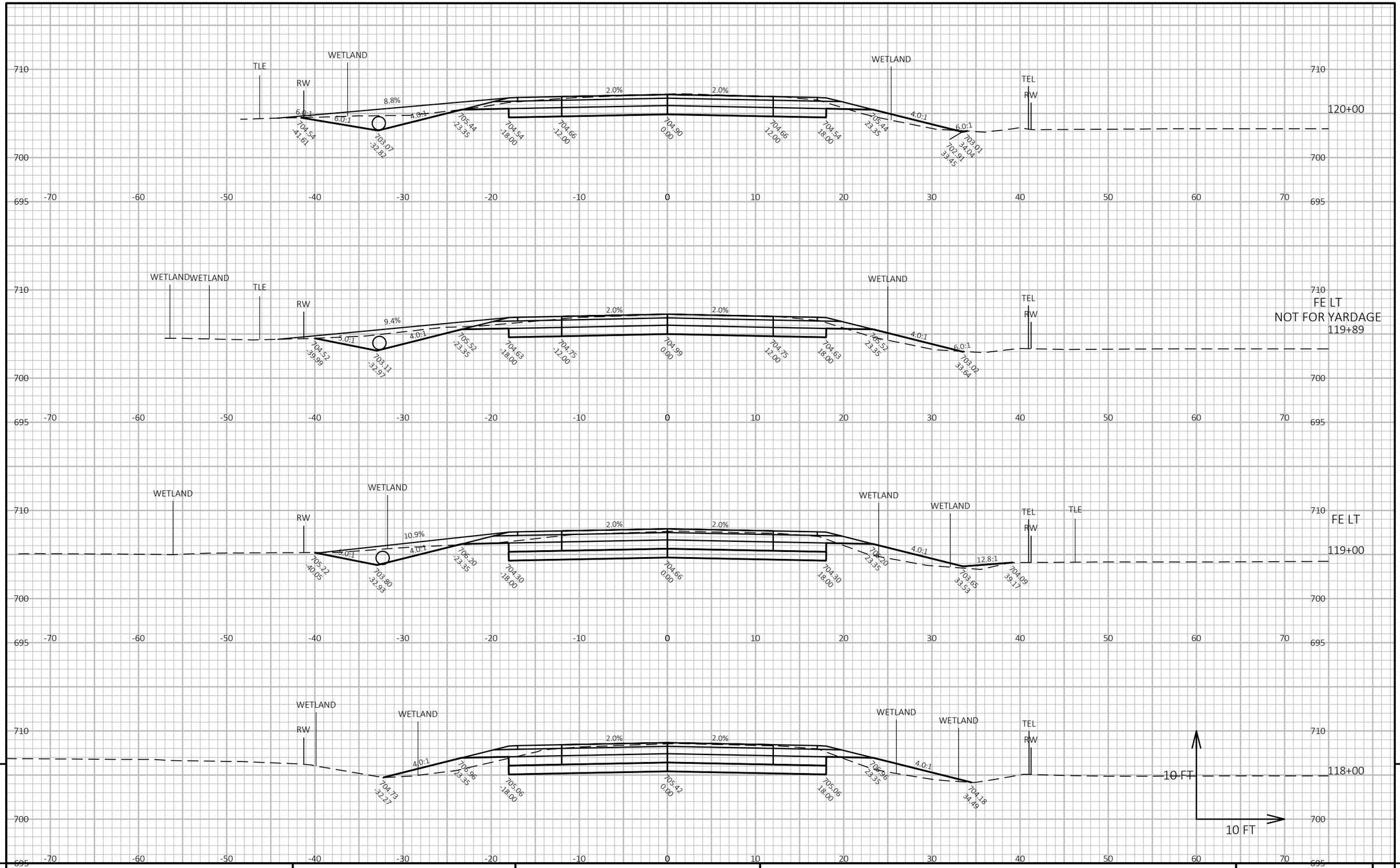
FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-A-START-145.DWG
LAYOUT NAME - Model

PLOT DATE : 8/1/2024 9:27 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 186	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-A-START-145.DWG
LAYOUT NAME - Model

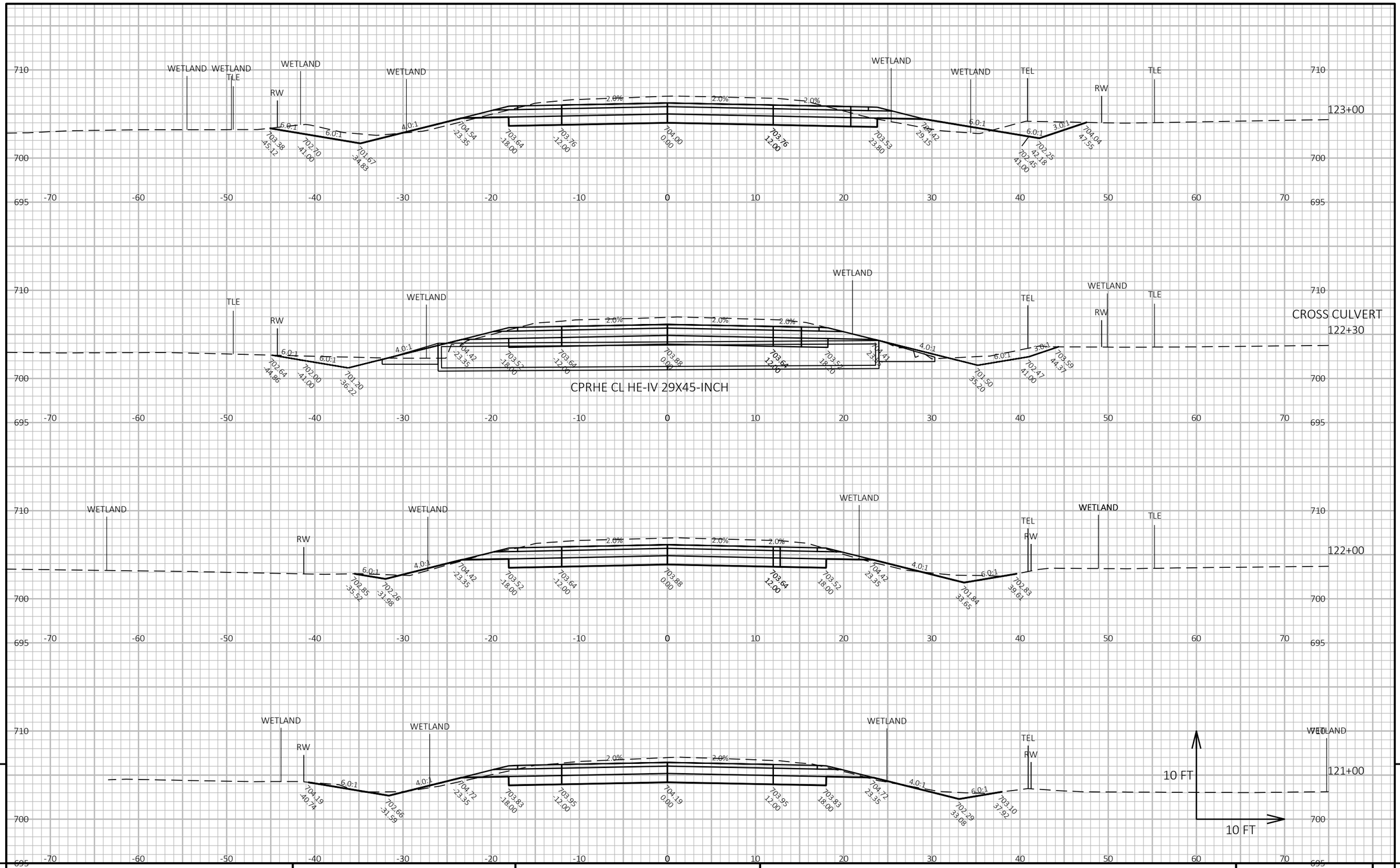
PLOT DATE : 8/1/2024 9:27 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 187	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-A-START-145.DWG
LAYOUT NAME - Model

PLOT DATE : 8/1/2024 9:27 AM

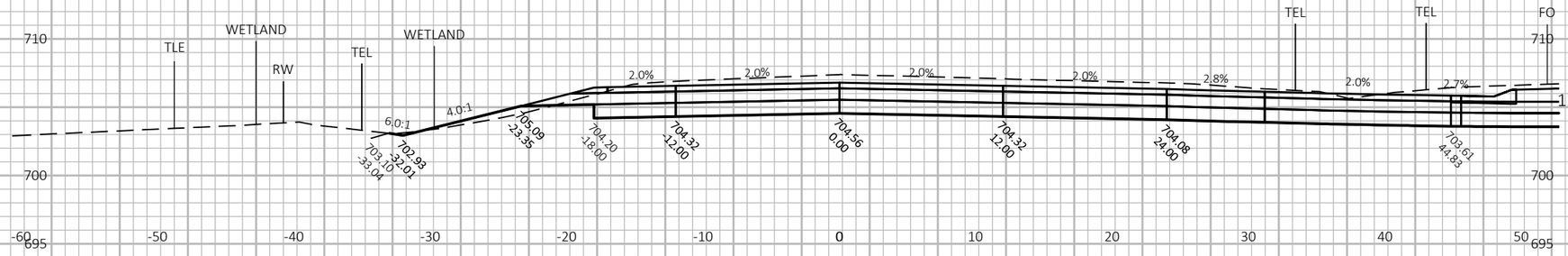
PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

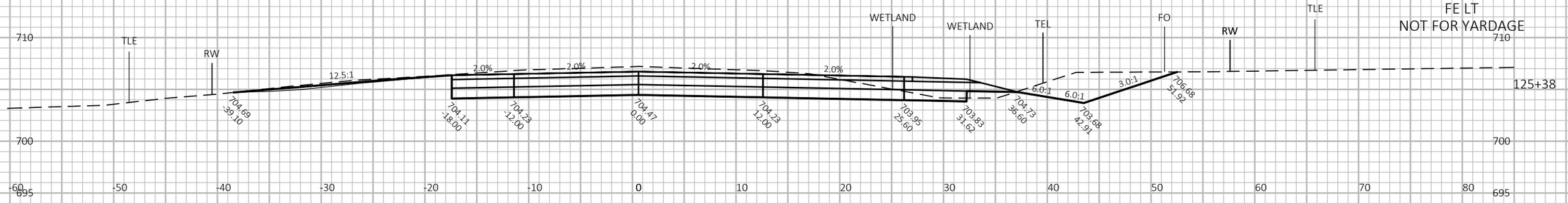
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

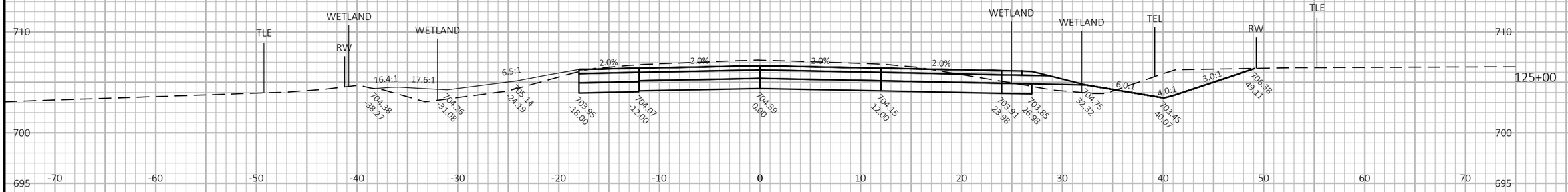
WISDOT/CADDS SHEET 49

END CAT 0020
BEGIN CAT 0010
MATCH KAVANAUGH RD



FE LT
NOT FOR YARDAGE





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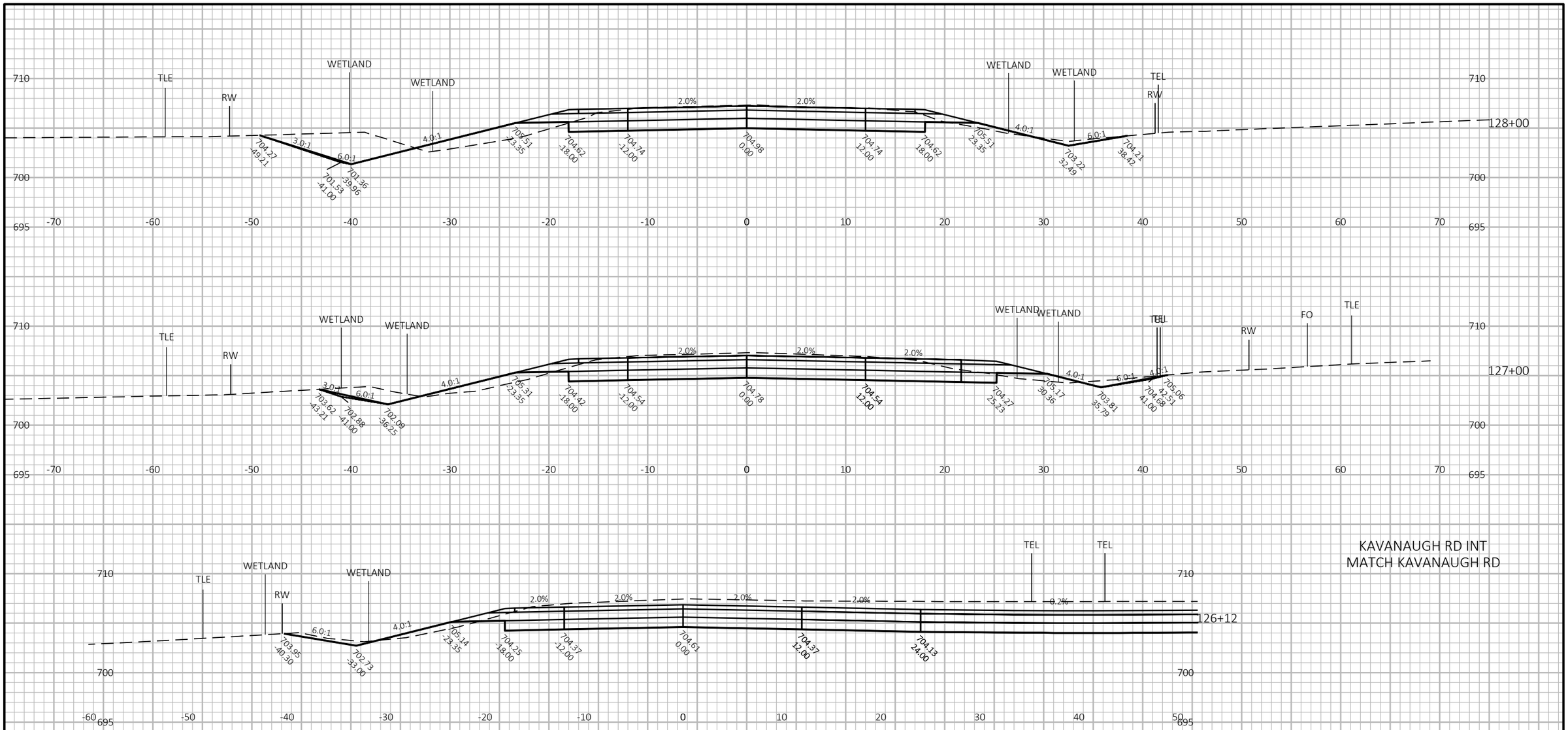
PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 188	E



PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 189 E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-A-START-145.DWG
LAYOUT NAME - Model

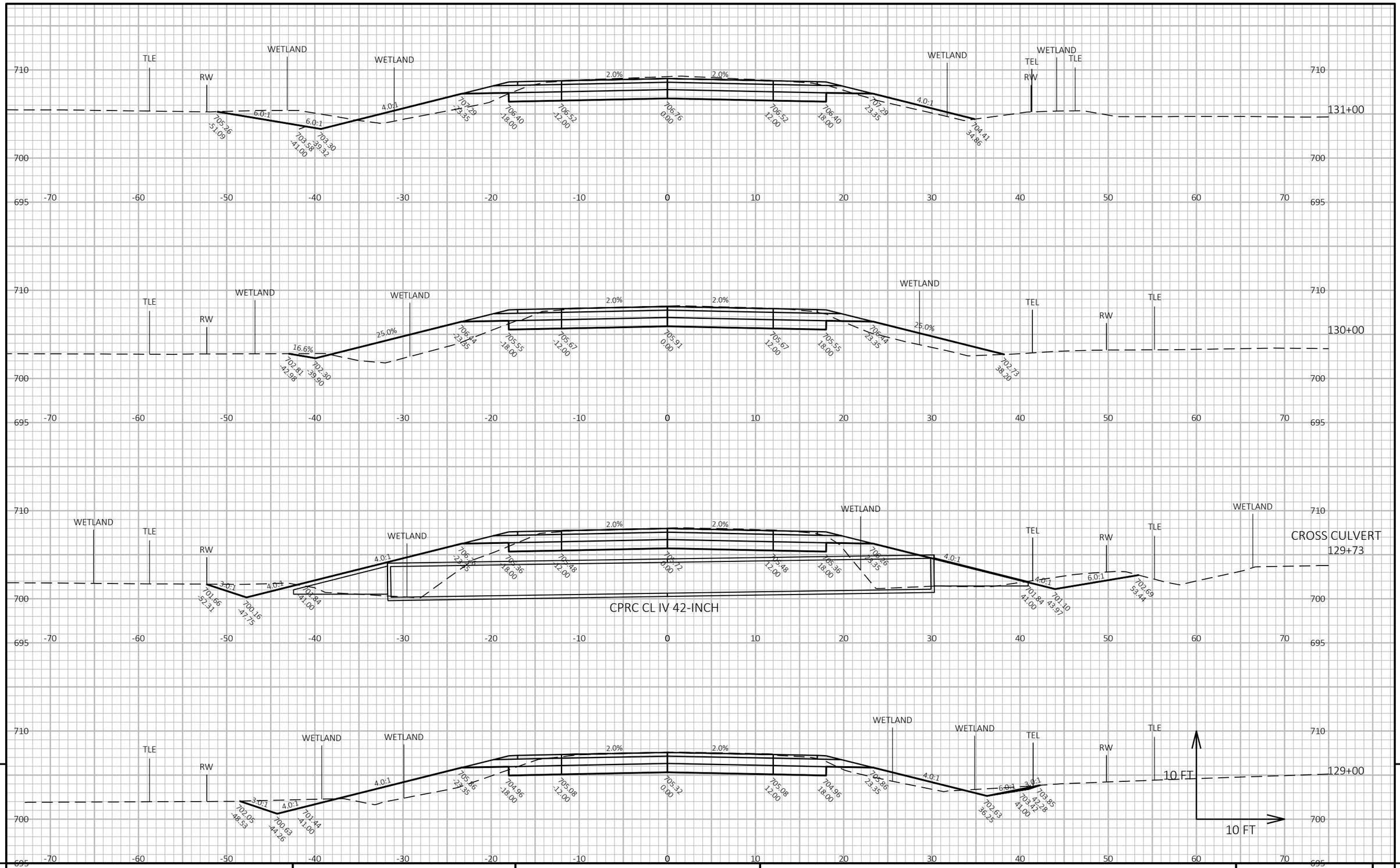
PLOT DATE : 8/1/2024 9:27 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 190	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-A-START-145.DWG
LAYOUT NAME - Model

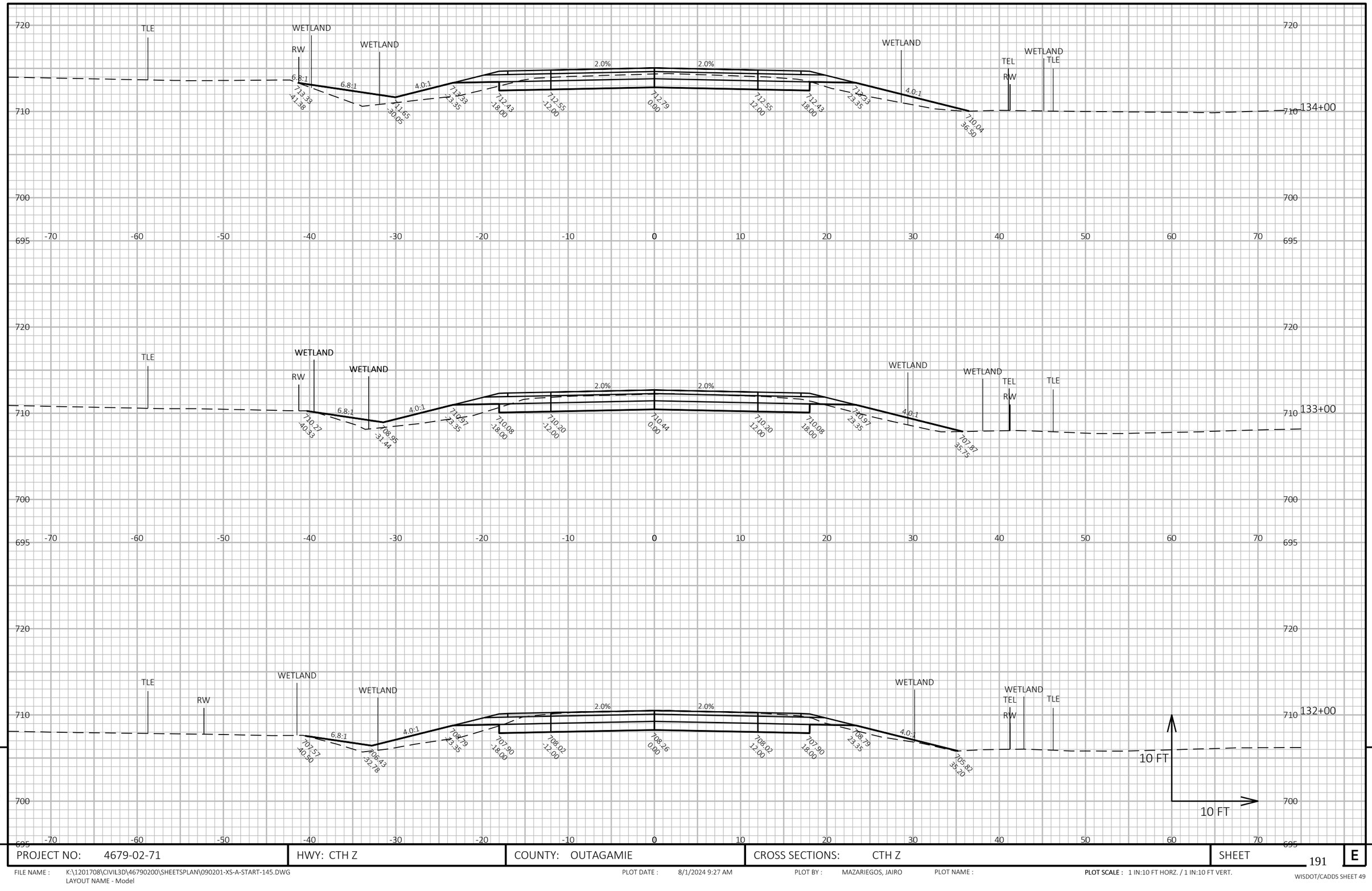
PLOT DATE : 8/1/2024 9:27 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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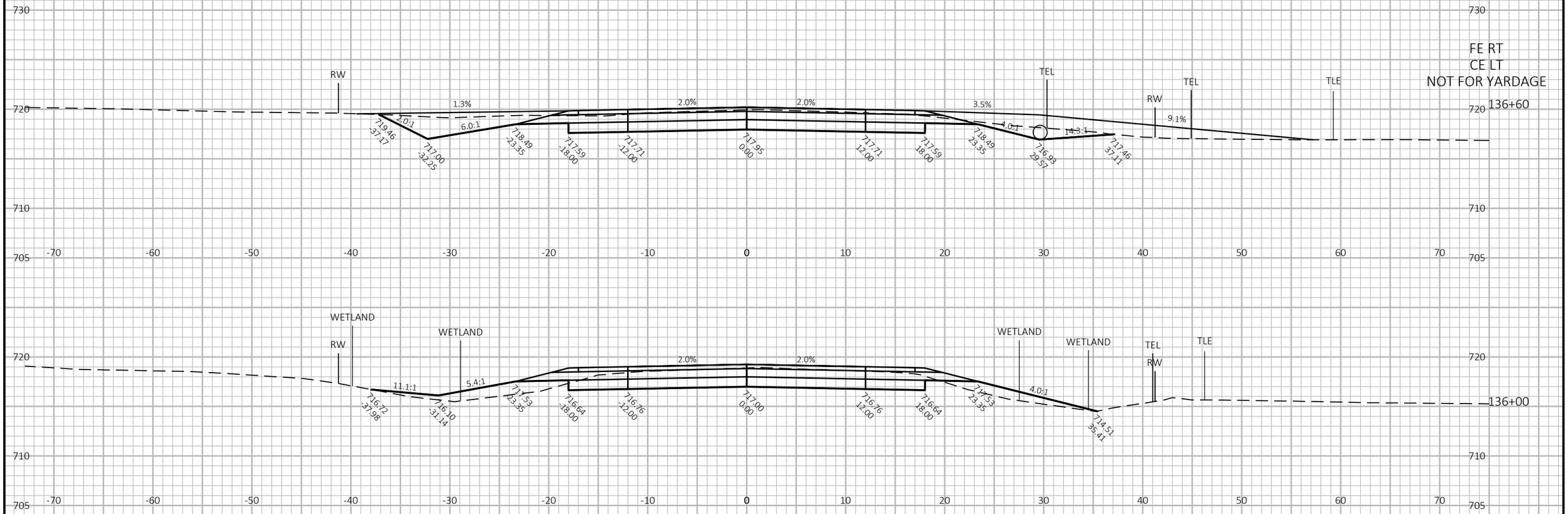
PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 191	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-A-START-145.DWG
LAYOUT NAME - Model

PLOT DATE : 8/1/2024 9:27 AM PLOT BY : MAZARIEGOS, JAIRO PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 192	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-A-START-145.DWG
LAYOUT NAME - Model

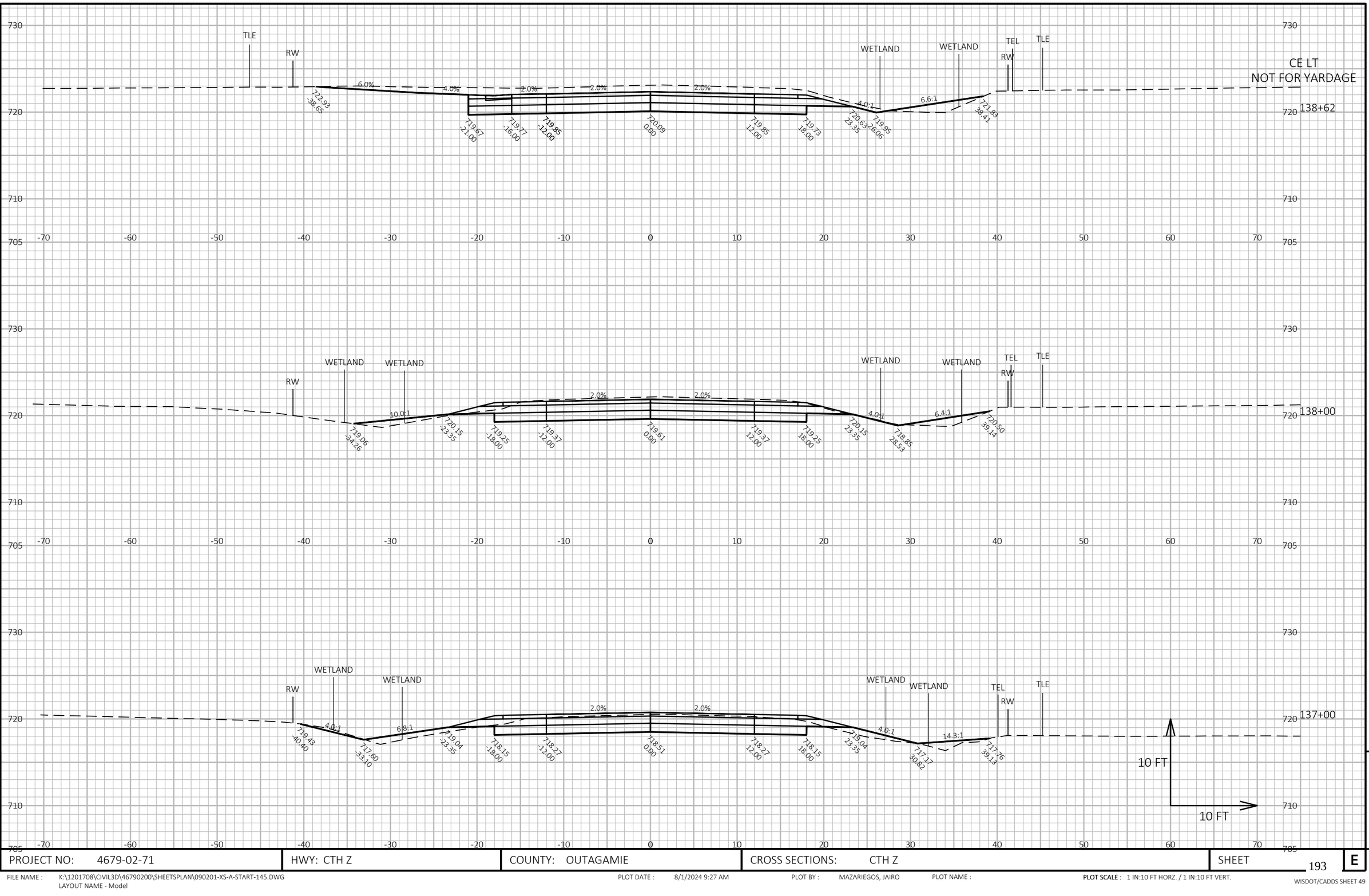
PLOT DATE : 8/1/2024 9:27 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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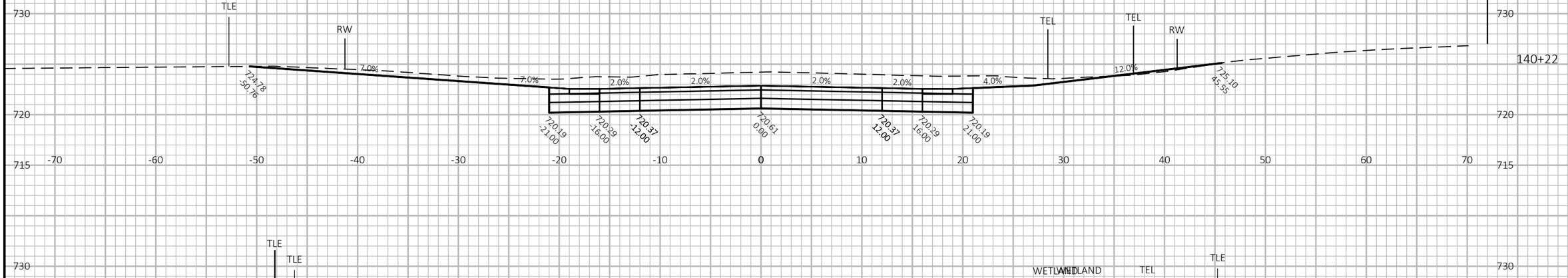
PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 193	E

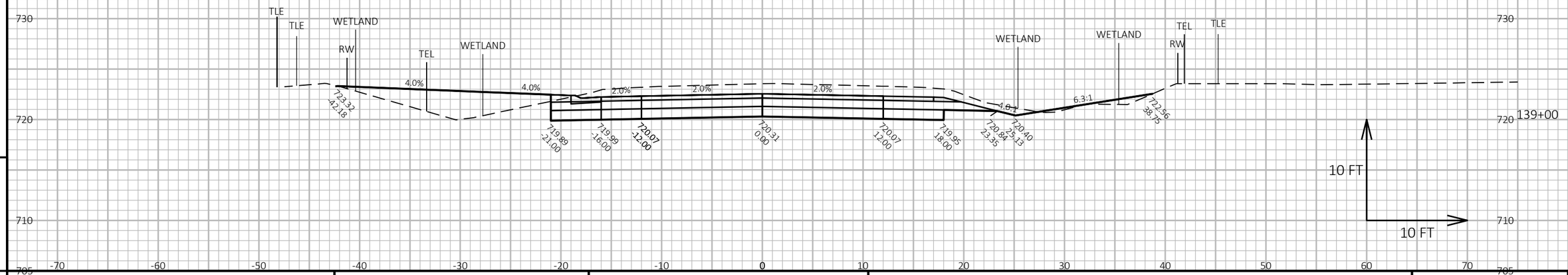
FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-A-START-145.DWG
LAYOUT NAME - Model

PLOT DATE : 8/1/2024 9:27 AM PLOT BY : MAZARIEGOS, JAIRO PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

CE LT
NOT FOR YARDAGE





10 FT
10 FT

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PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 194	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-A-START-145.DWG
LAYOUT NAME - Model

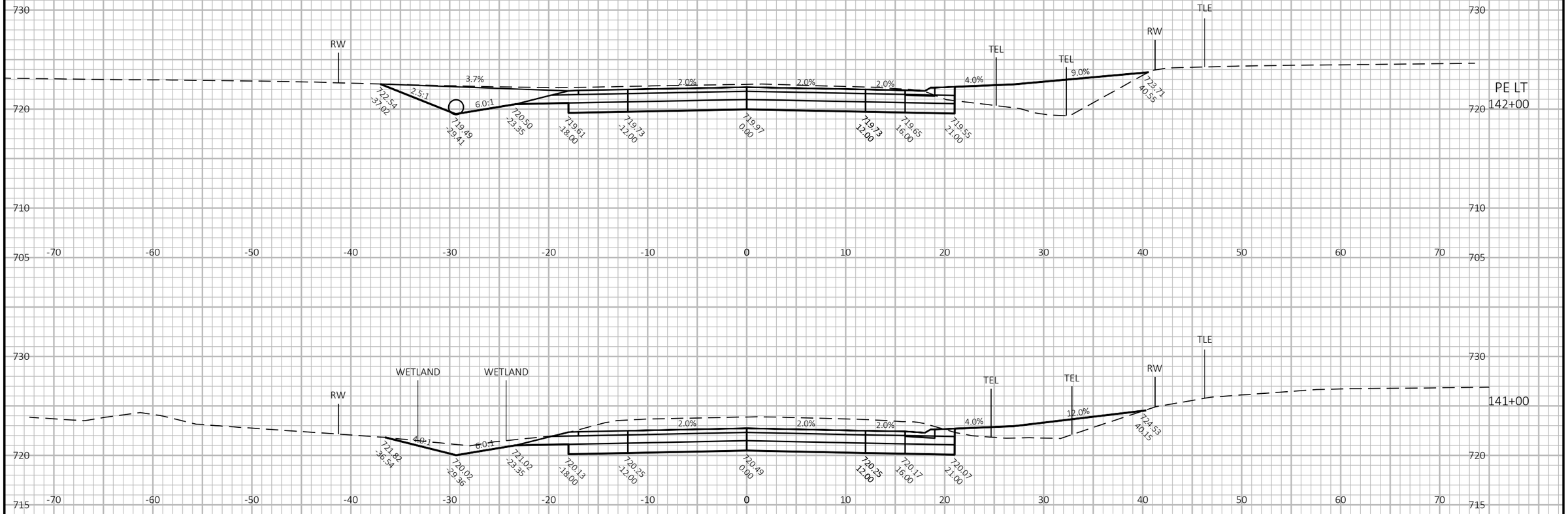
PLOT DATE : 8/1/2024 9:27 AM

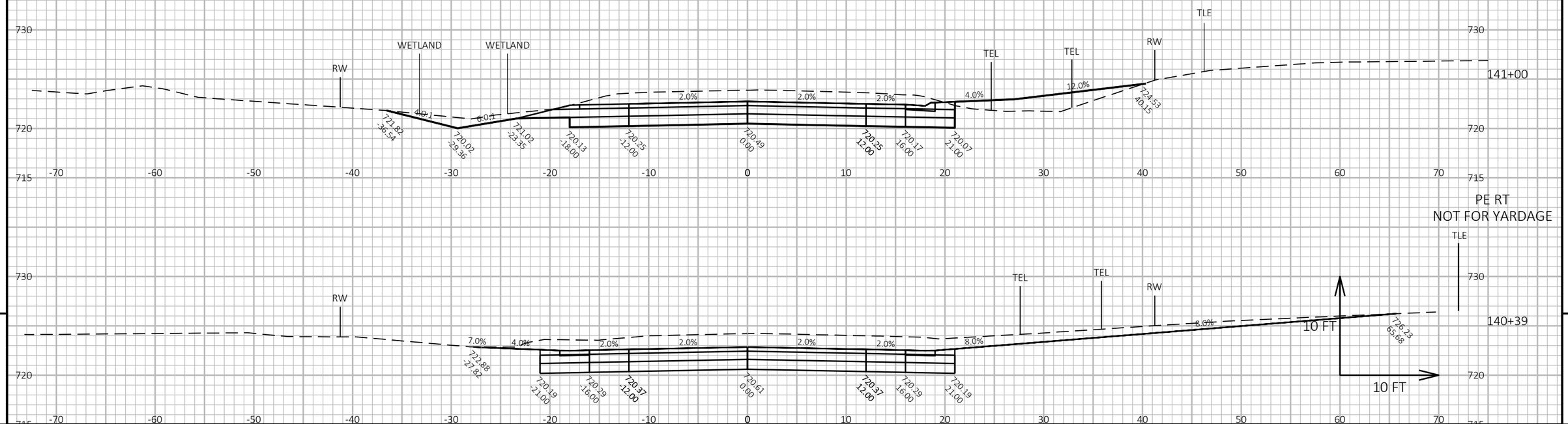
PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





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PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 195	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-A-START-145.DWG
LAYOUT NAME - Model

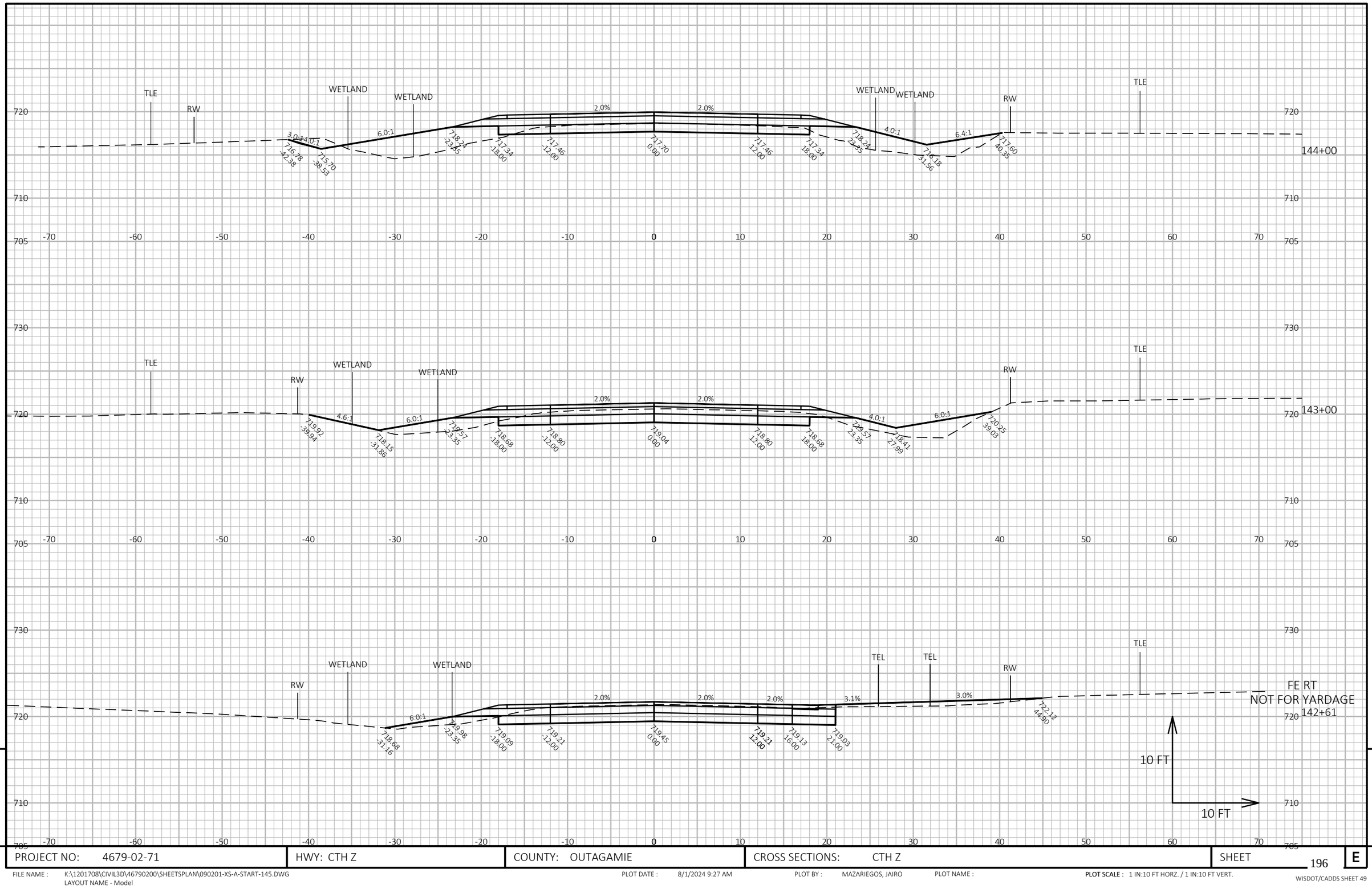
PLOT DATE : 8/1/2024 9:27 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

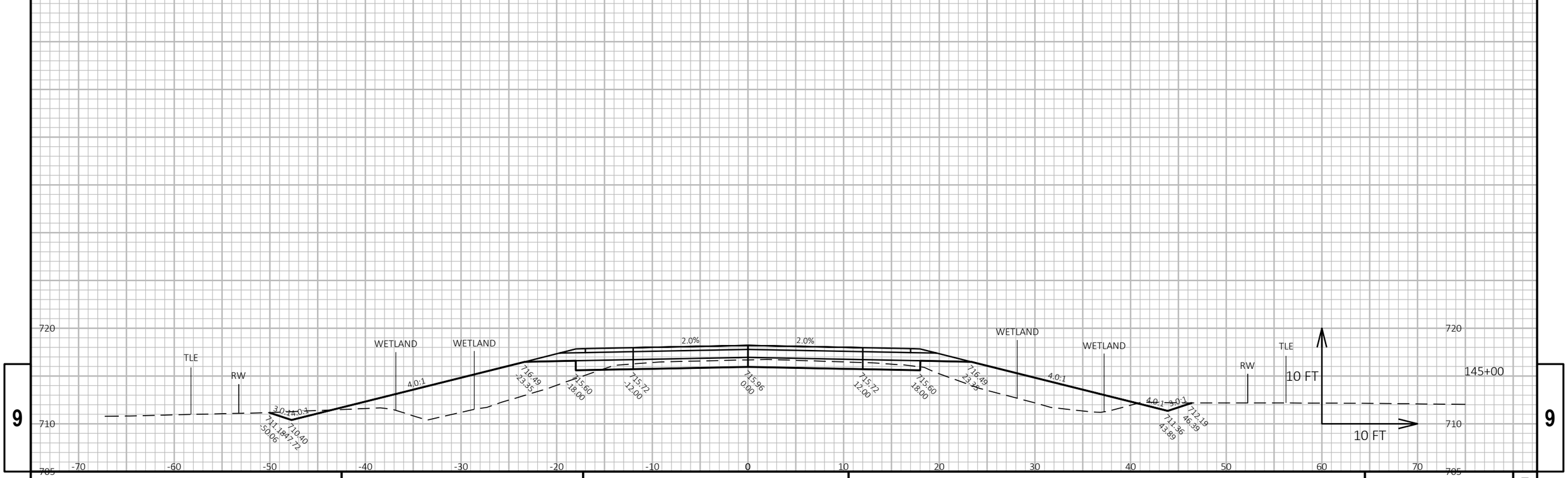


PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 196	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-A-START-145.DWG
LAYOUT NAME - Model

PLOT DATE : 8/1/2024 9:27 AM PLOT BY : MAZARIEGOS, JAIRO PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 197	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-A-START-145.DWG
LAYOUT NAME - Model

PLOT DATE : 8/1/2024 9:27 AM

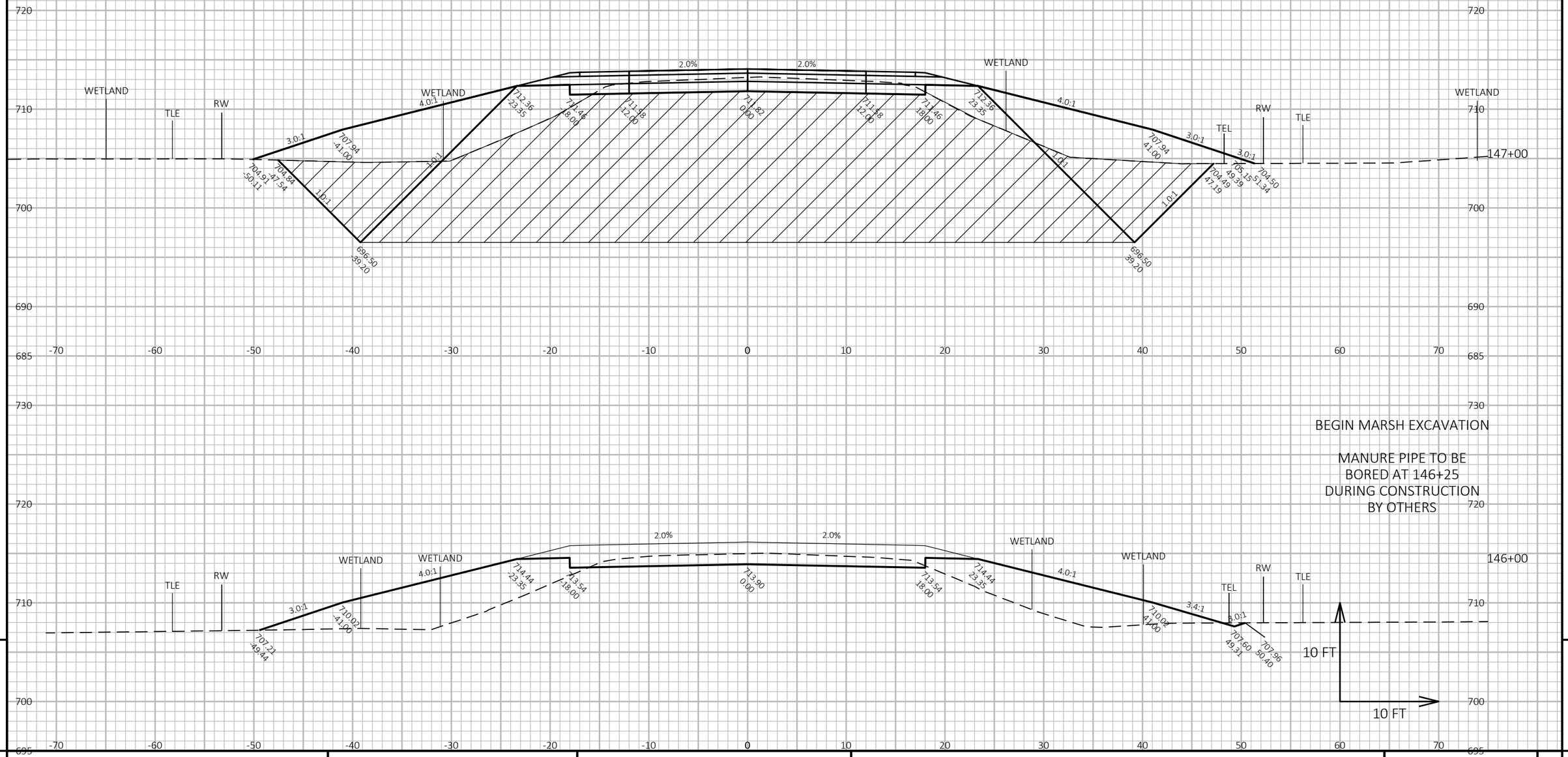
PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

MARSH EXCAVATION
(SEE CONSTRUCTION DETAIL)



PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 198	E

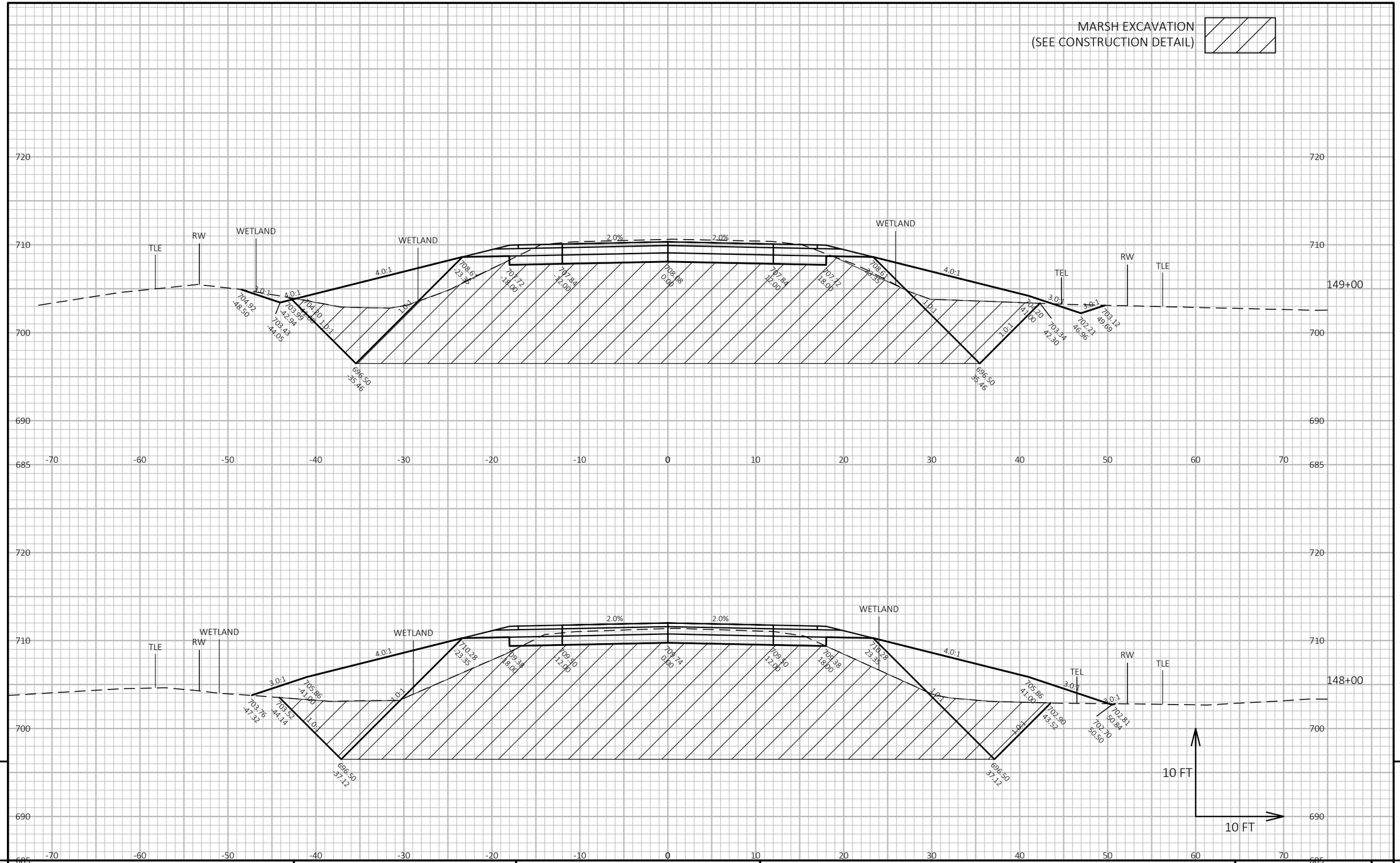
FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-B-145-185.DWG
LAYOUT NAME - Model

PLOT DATE : 8/1/2024 9:29 AM PLOT BY : MAZARIEGOS, JAIRO PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

MARSH EXCAVATION
(SEE CONSTRUCTION DETAIL)



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9

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 199	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-B-145-185.DWG
LAYOUT NAME - Model

PLOT DATE : 8/1/2024 9:30 AM

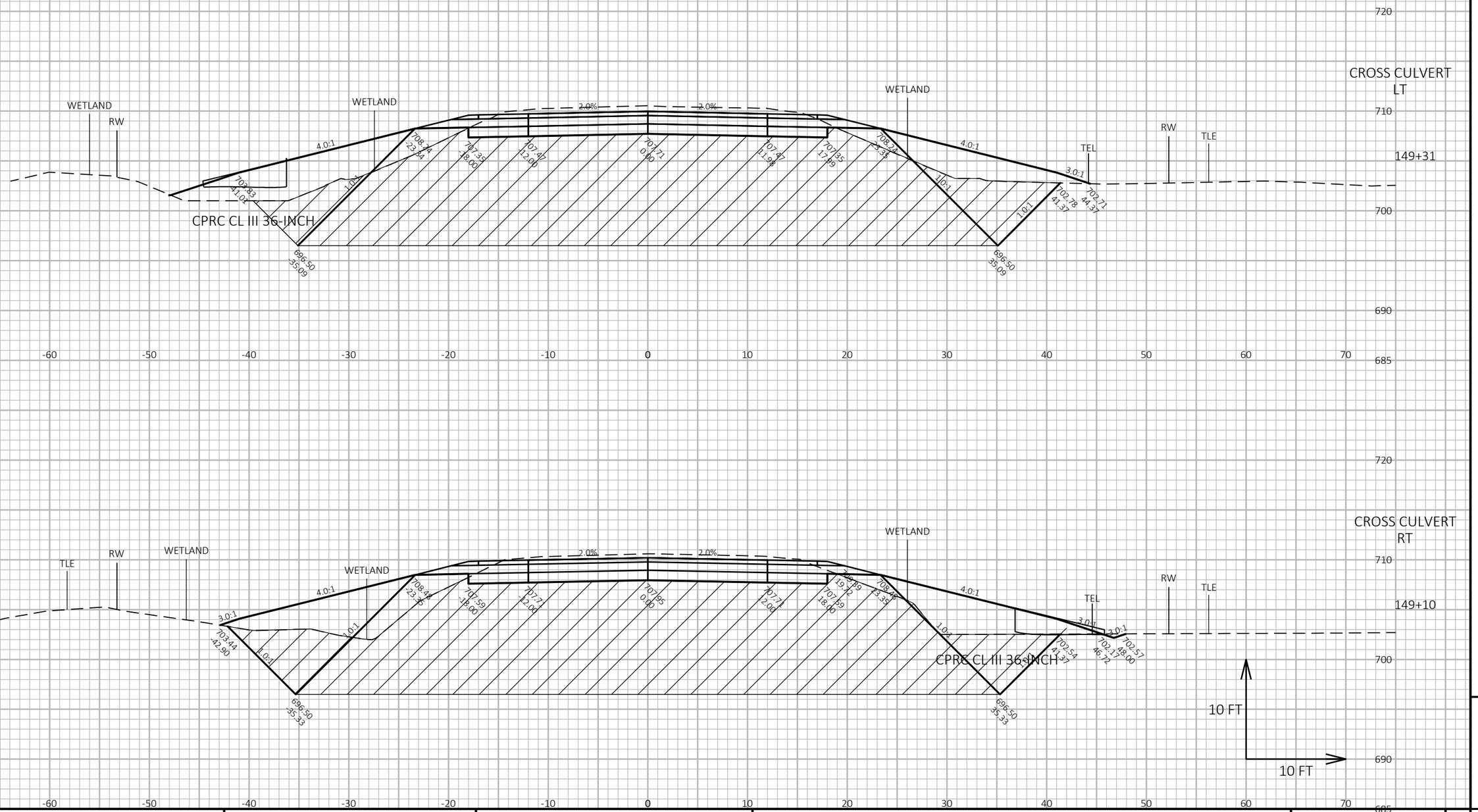
PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

MARSH EXCAVATION
(SEE CONSTRUCTION DETAIL)



PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 200	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-B-145-185.DWG
LAYOUT NAME - Model

PLOT DATE : 8/1/2024 9:30 AM

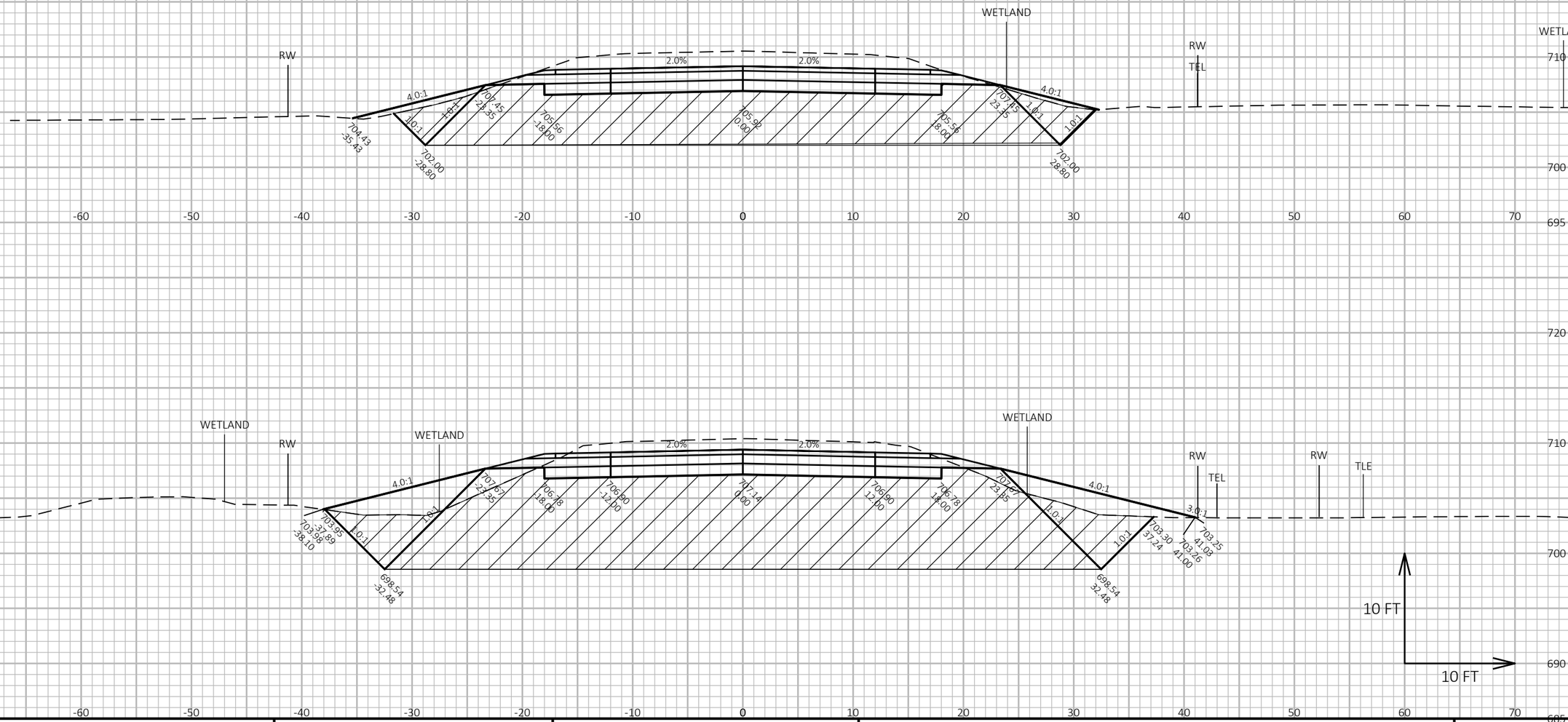
PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

MARSH EXCAVATION
(SEE CONSTRUCTION DETAIL)



PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 201	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-B-145-185.DWG
LAYOUT NAME - Model

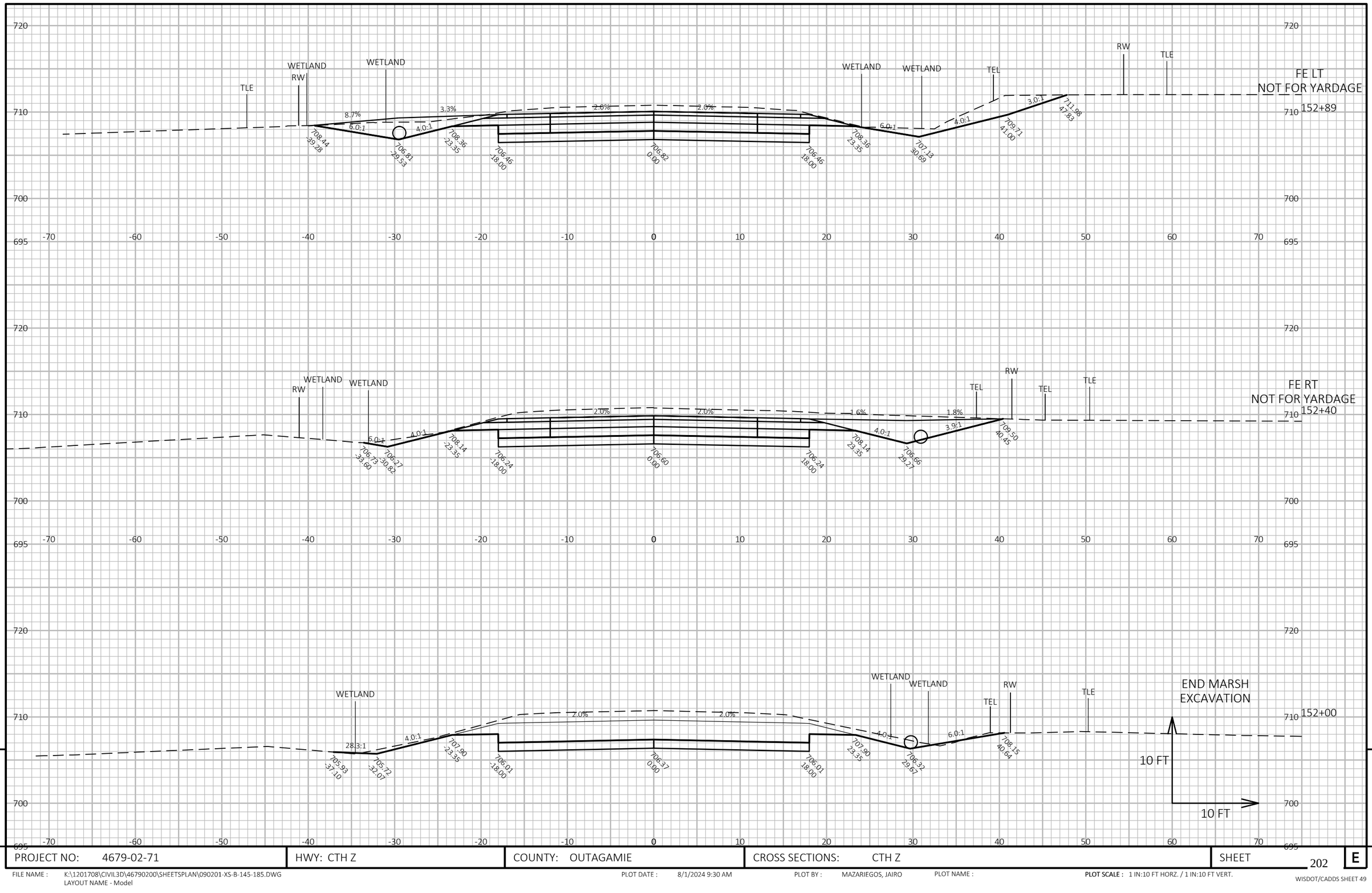
PLOT DATE : 8/1/2024 9:30 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 202	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-B-145-185.DWG
LAYOUT NAME - Model

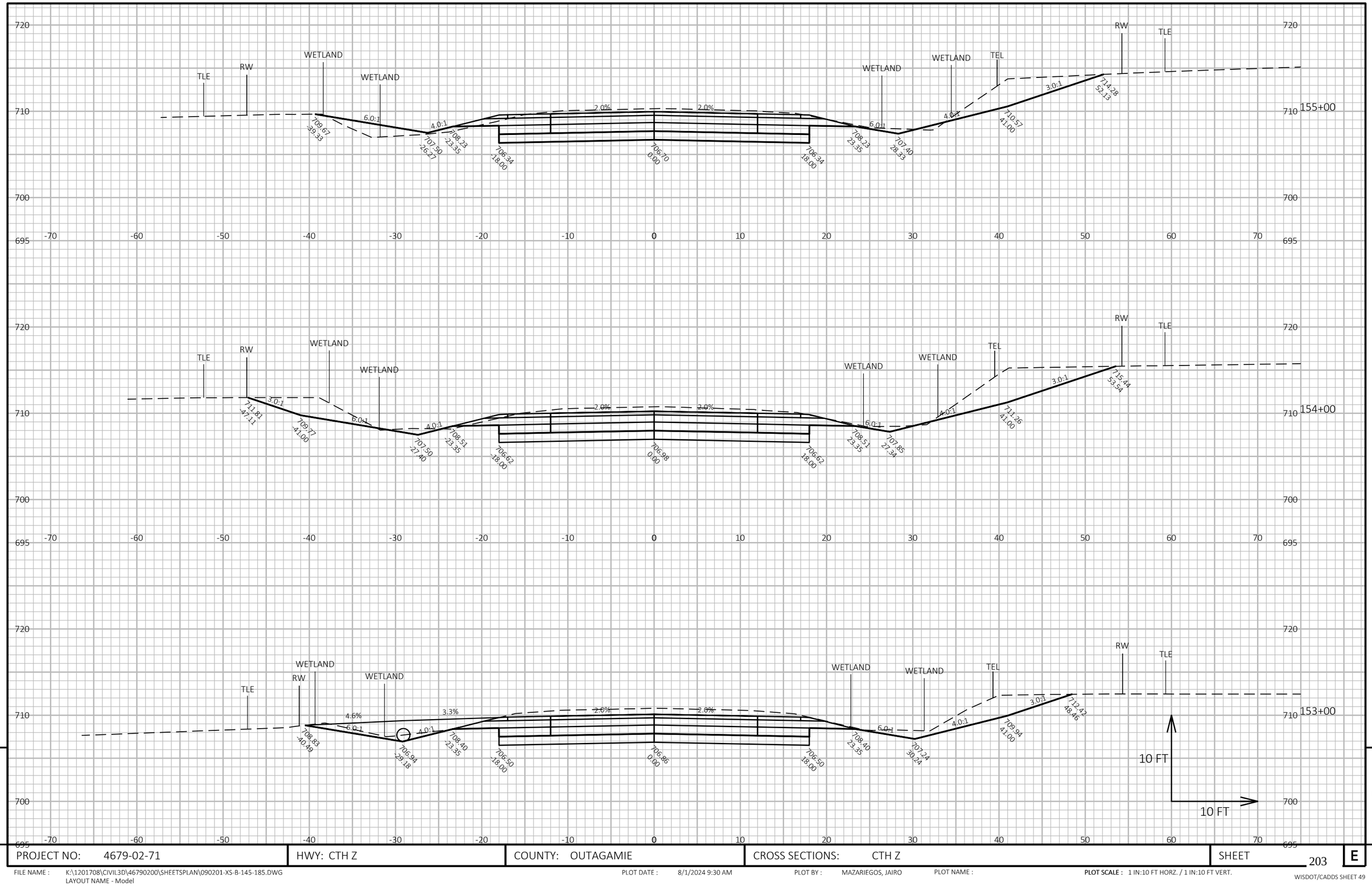
PLOT DATE : 8/1/2024 9:30 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 203	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-B-145-185.DWG
LAYOUT NAME - Model

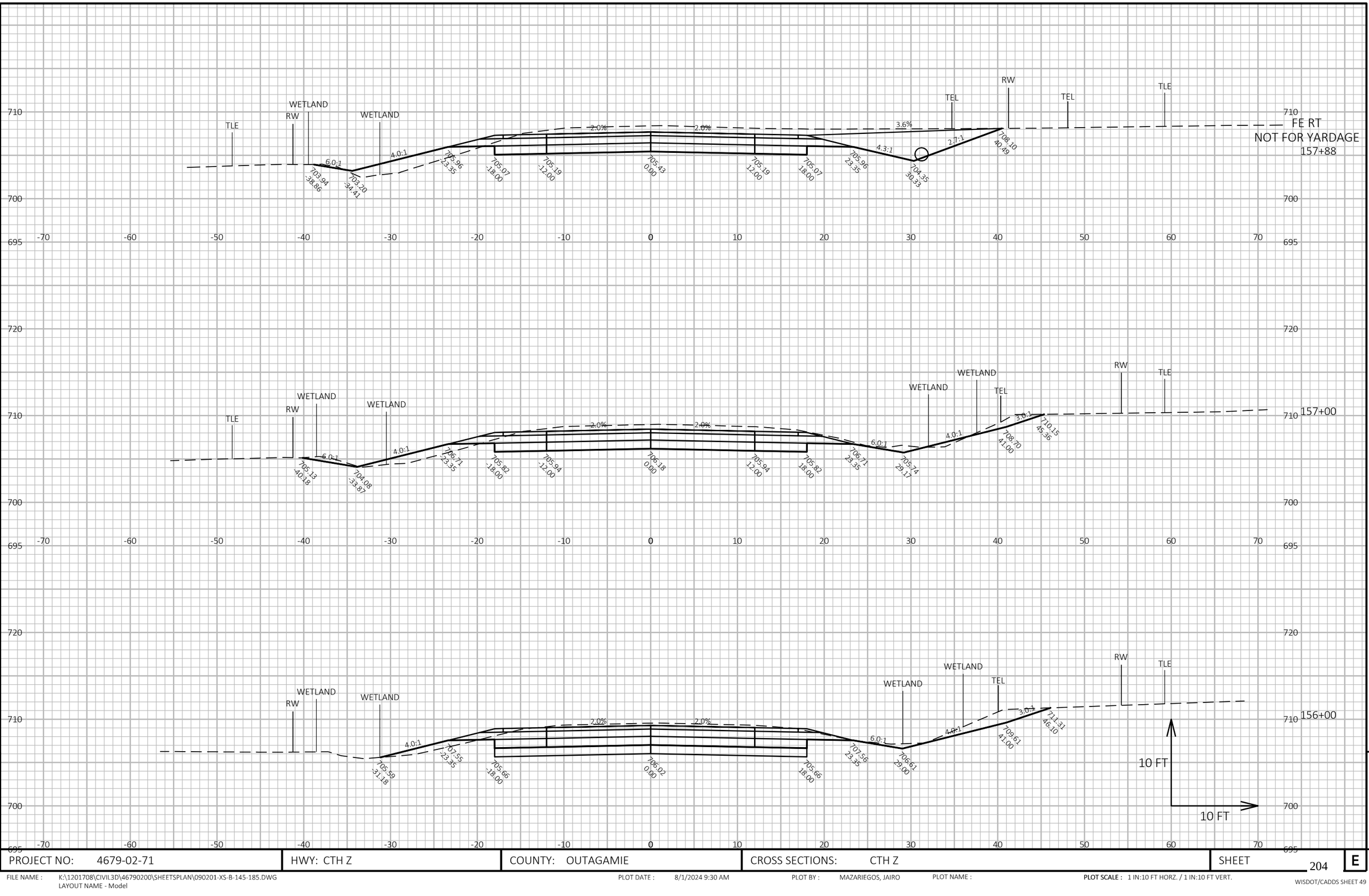
PLOT DATE : 8/1/2024 9:30 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 204	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-B-145-185.DWG
LAYOUT NAME - Model

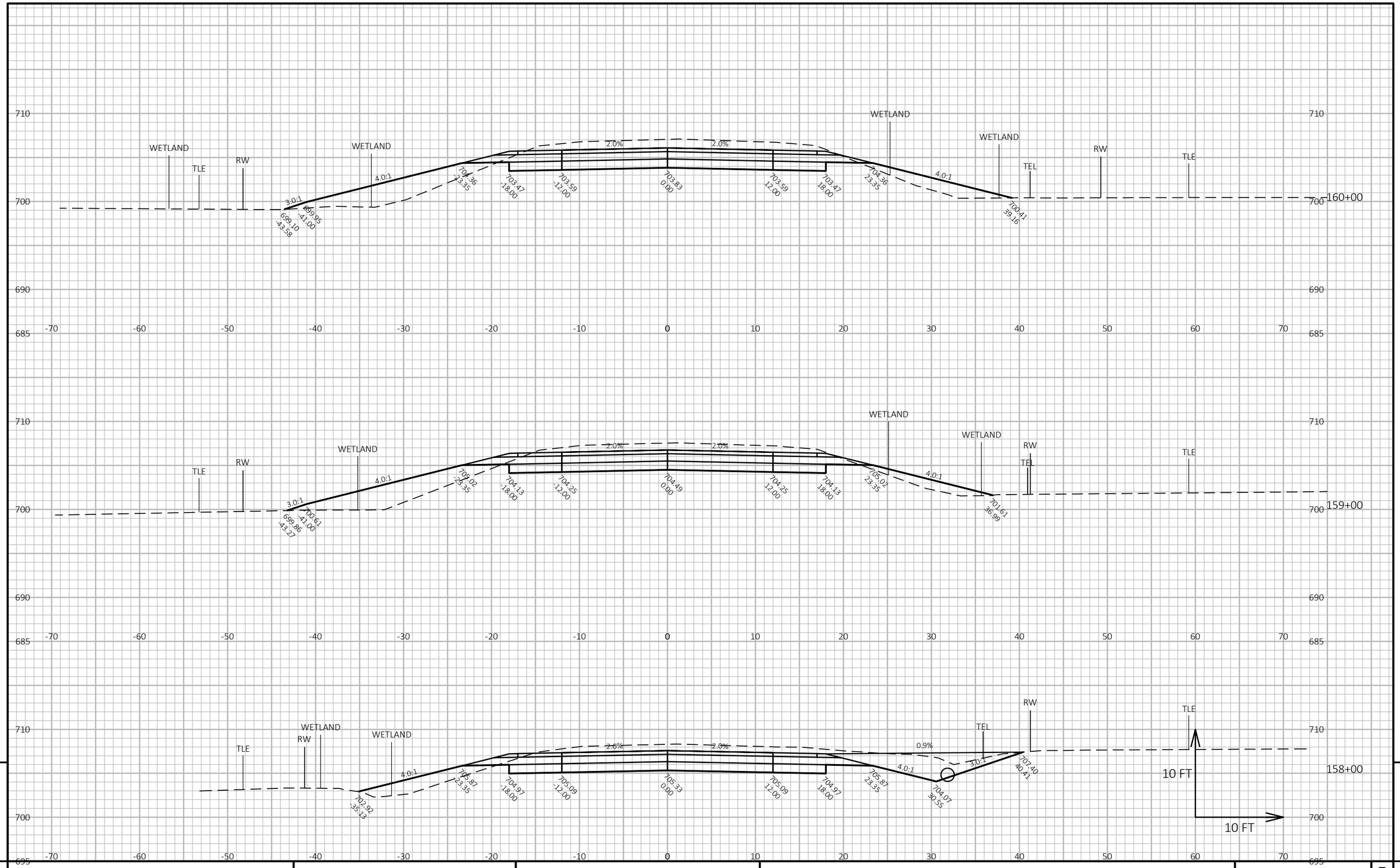
PLOT DATE : 8/1/2024 9:30 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 205	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-B-145-185.DWG
LAYOUT NAME - Model

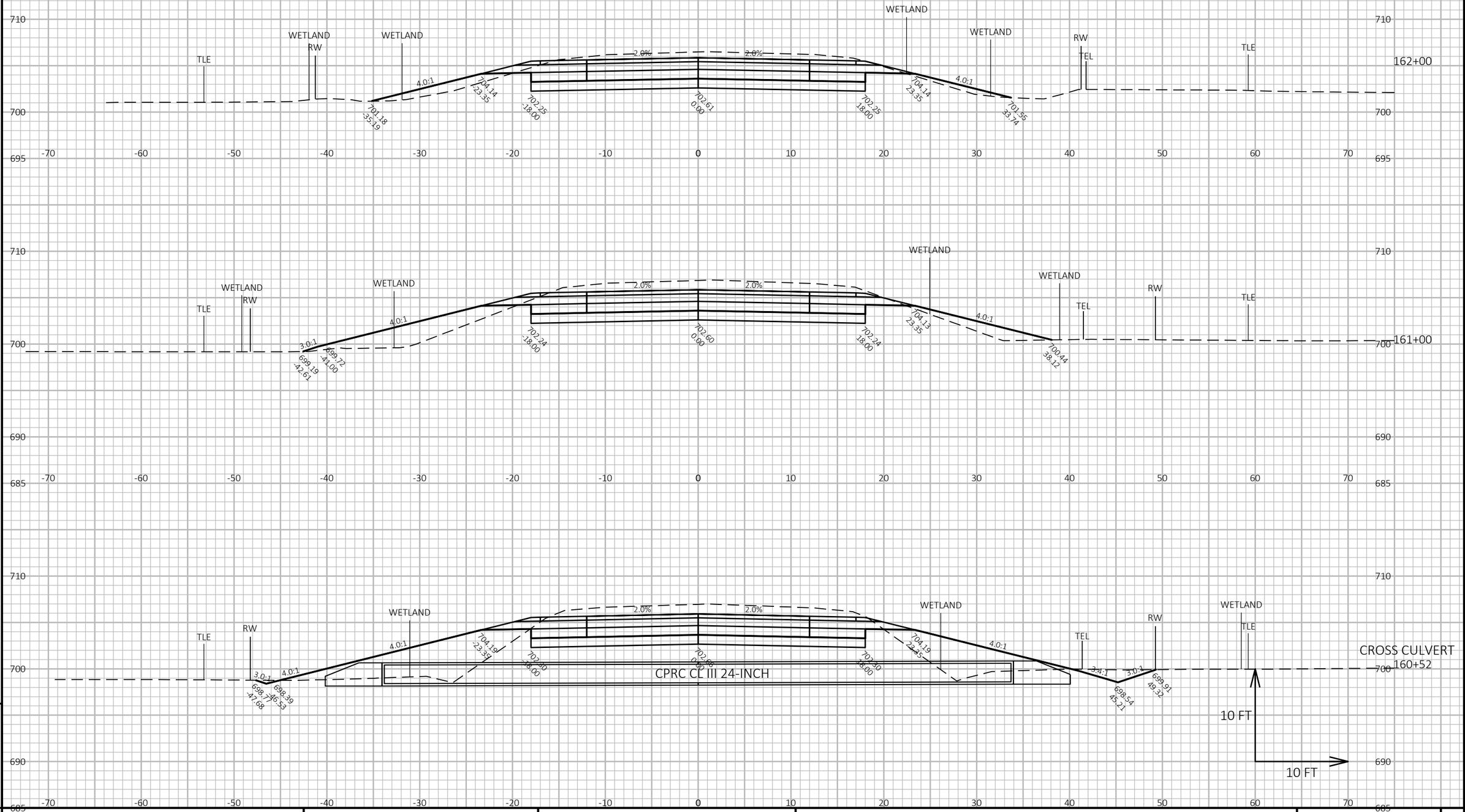
PLOT DATE : 8/1/2024 9:30 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 206	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-B-145-185.DWG
LAYOUT NAME - Model

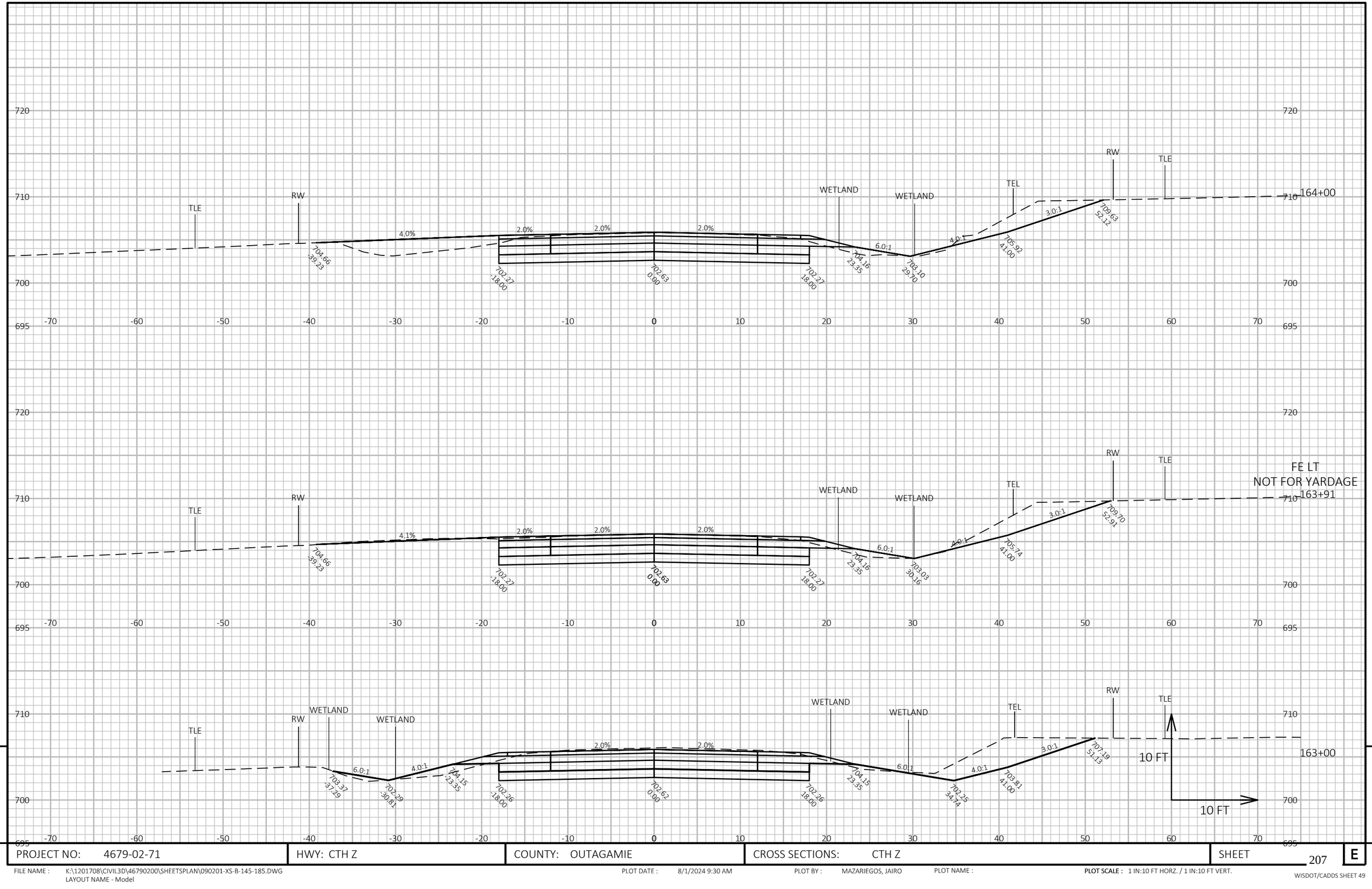
PLOT DATE : 8/1/2024 9:30 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 207	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-B-145-185.DWG
LAYOUT NAME - Model

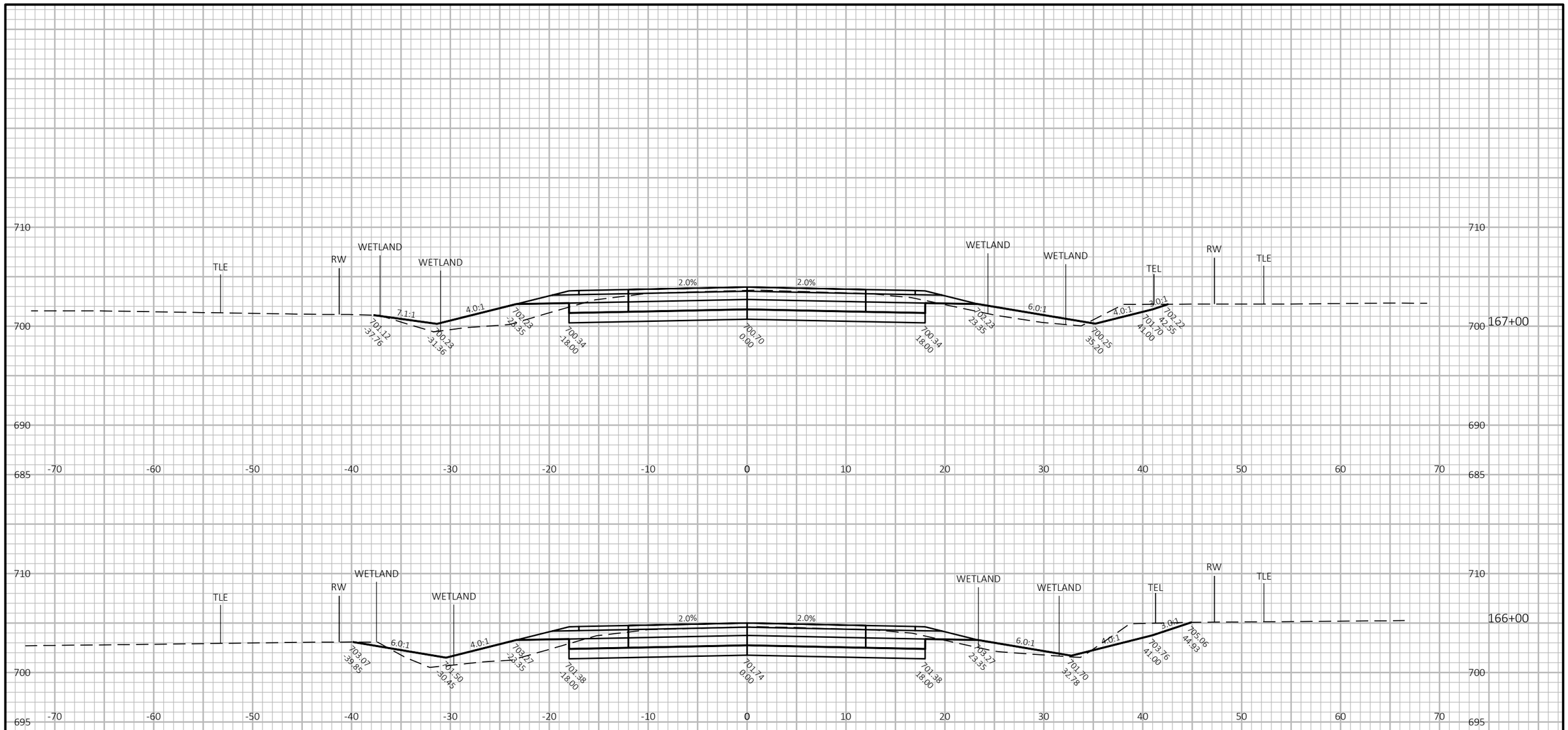
PLOT DATE : 8/1/2024 9:30 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 208	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-B-145-185.DWG
LAYOUT NAME - Model

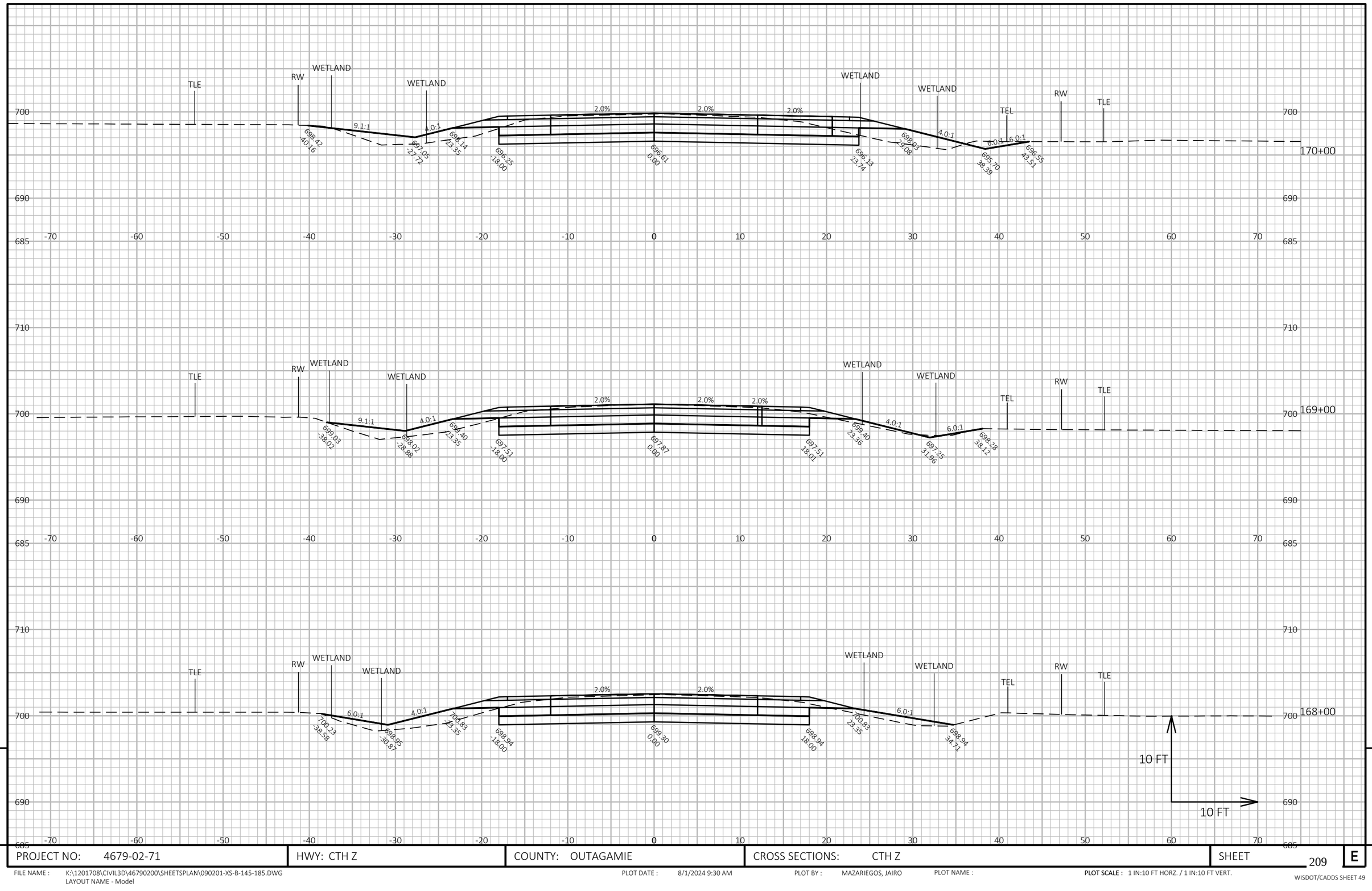
PLOT DATE : 8/1/2024 9:30 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 209	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-B-145-185.DWG
LAYOUT NAME - Model

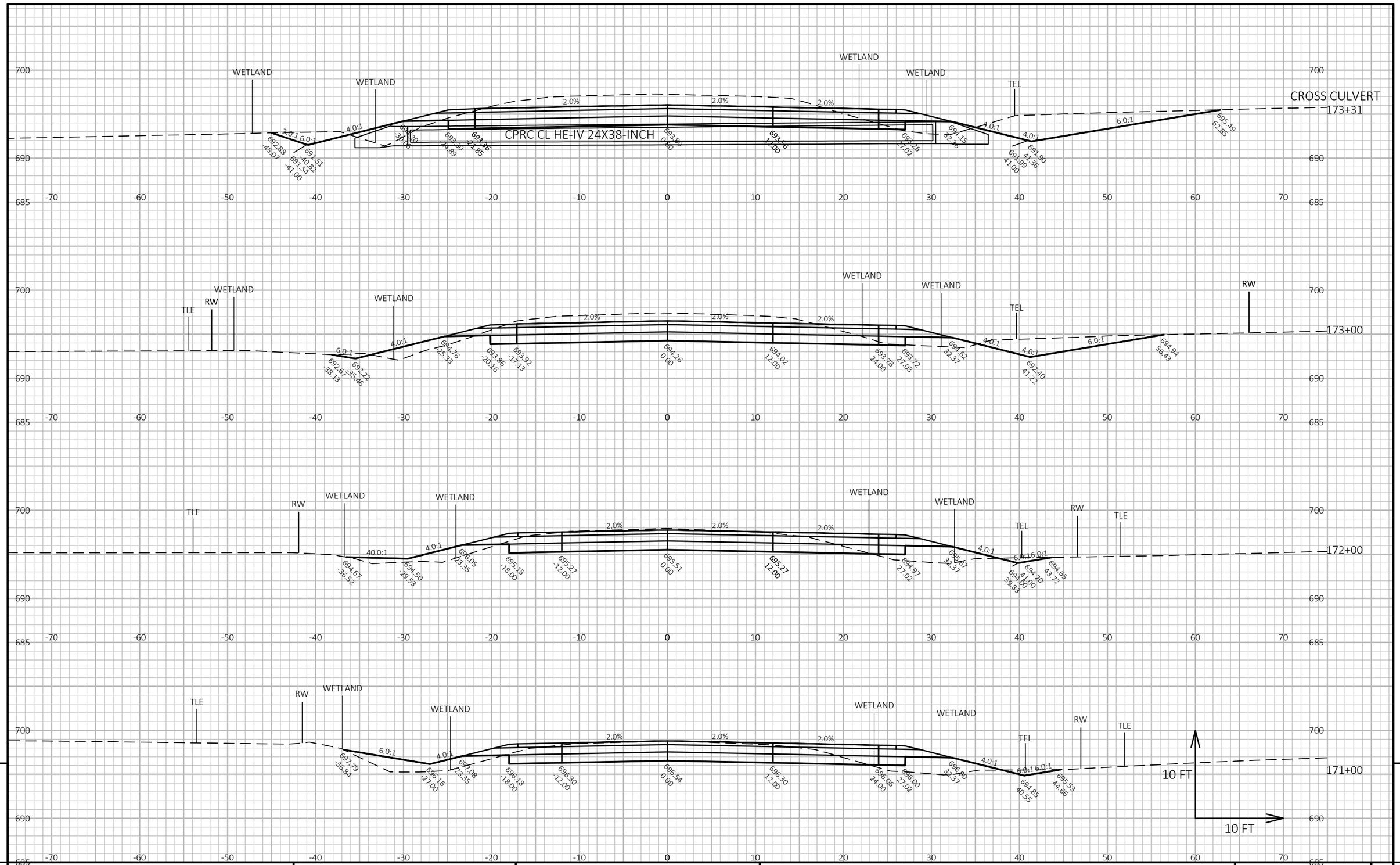
PLOT DATE : 8/1/2024 9:30 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 210	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-B-145-185.DWG
LAYOUT NAME - Model

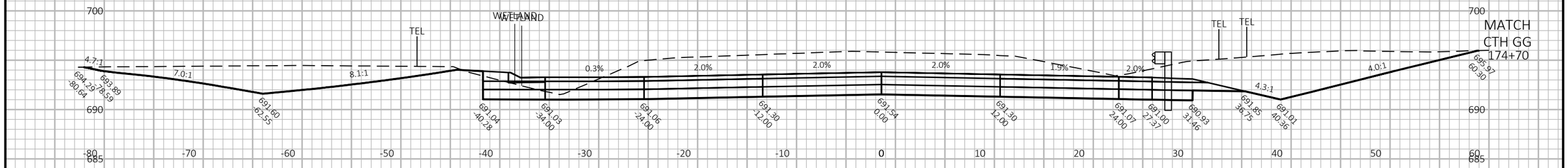
PLOT DATE : 8/1/2024 9:30 AM

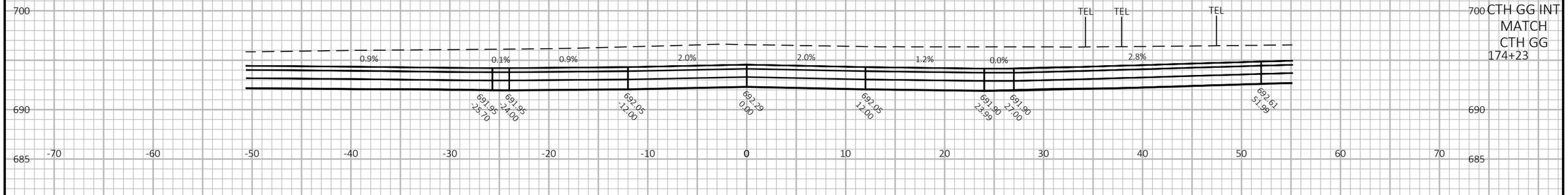
PLOT BY : MAZARIEGOS, JAIRO

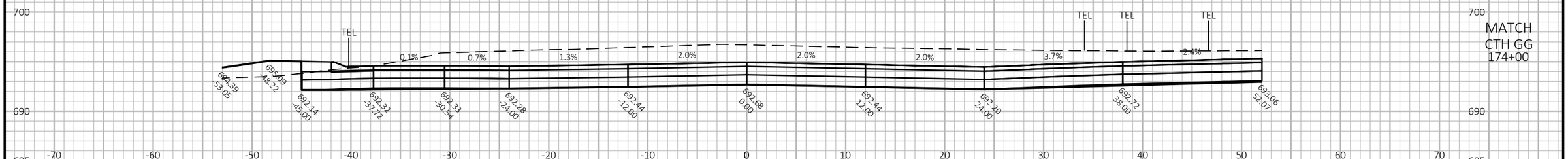
PLOT NAME :

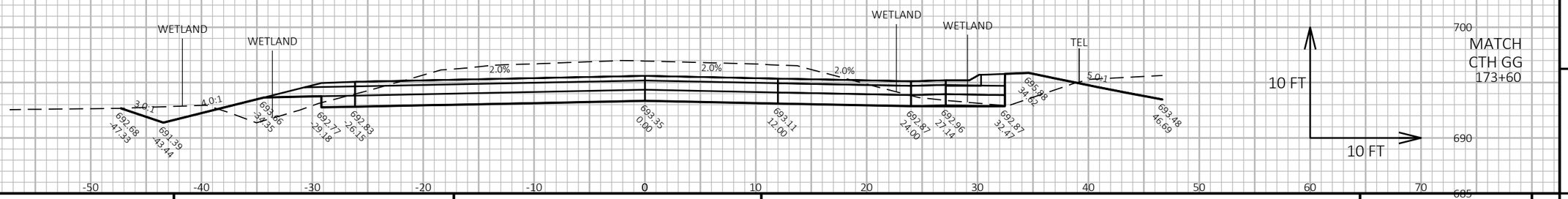
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49









PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 211	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-B-145-185.DWG
LAYOUT NAME - Model

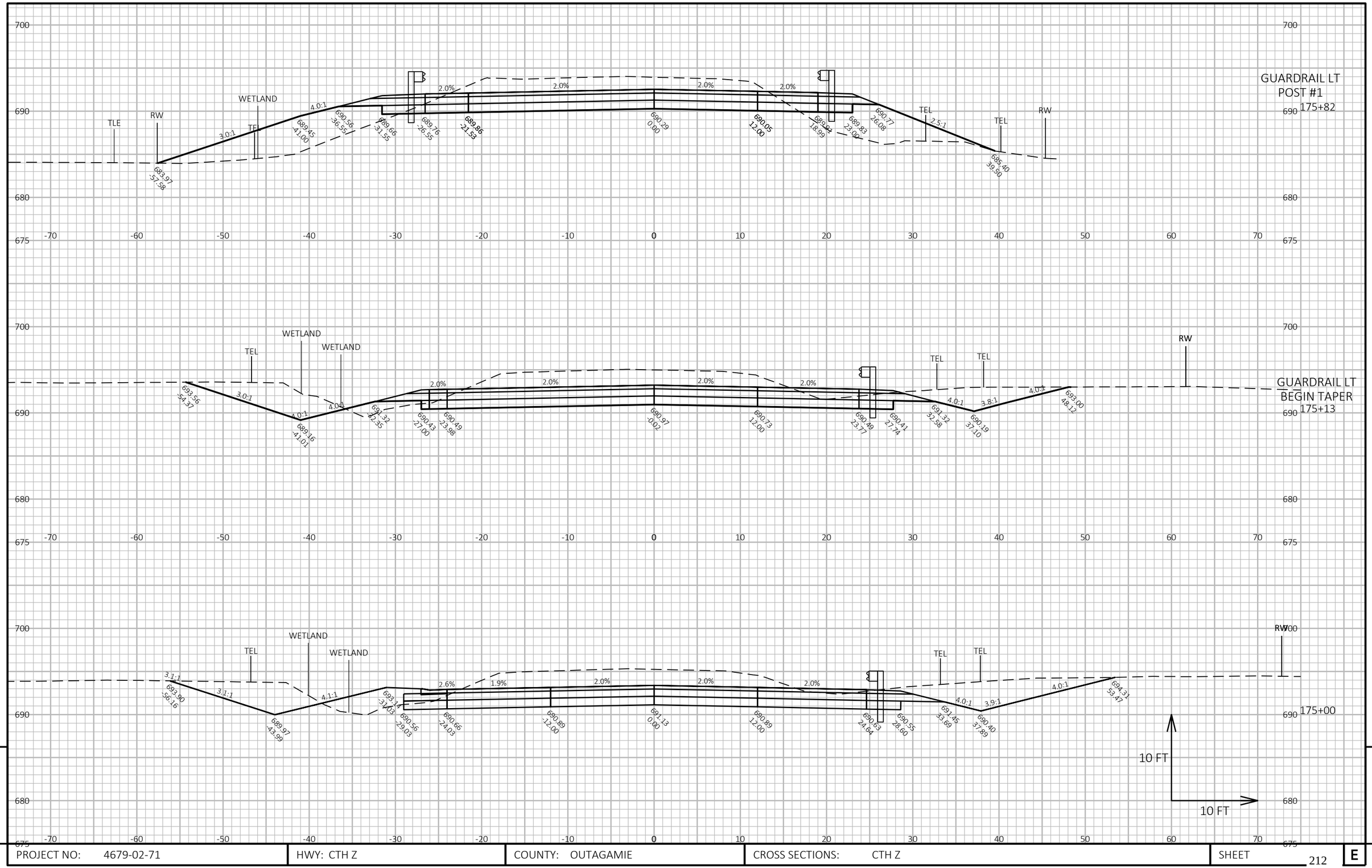
PLOT DATE : 8/1/2024 9:30 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 212 E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-B-145-185.DWG
LAYOUT NAME - Model

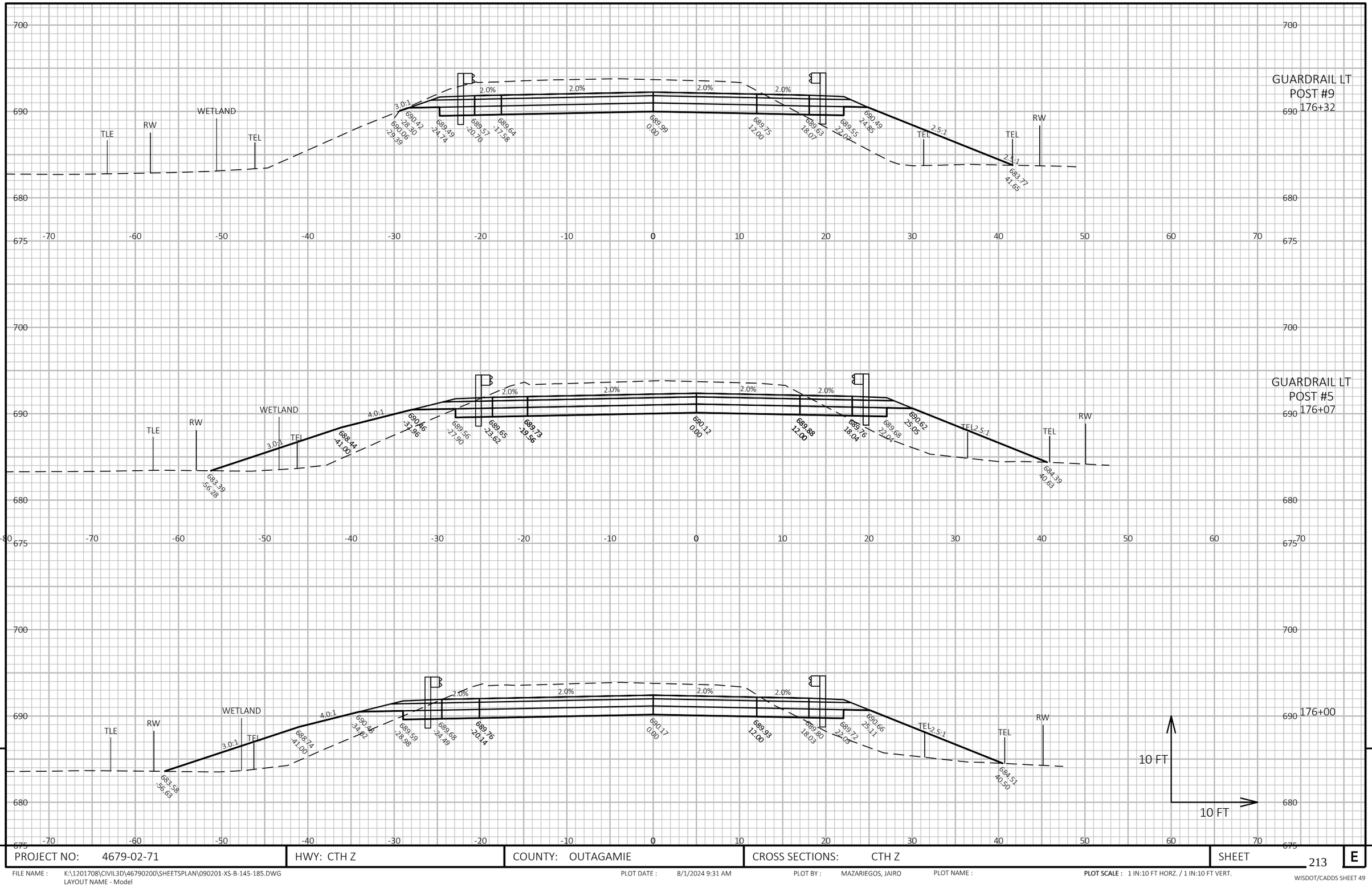
PLOT DATE : 8/1/2024 9:30 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 213	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-B-145-185.DWG
LAYOUT NAME - Model

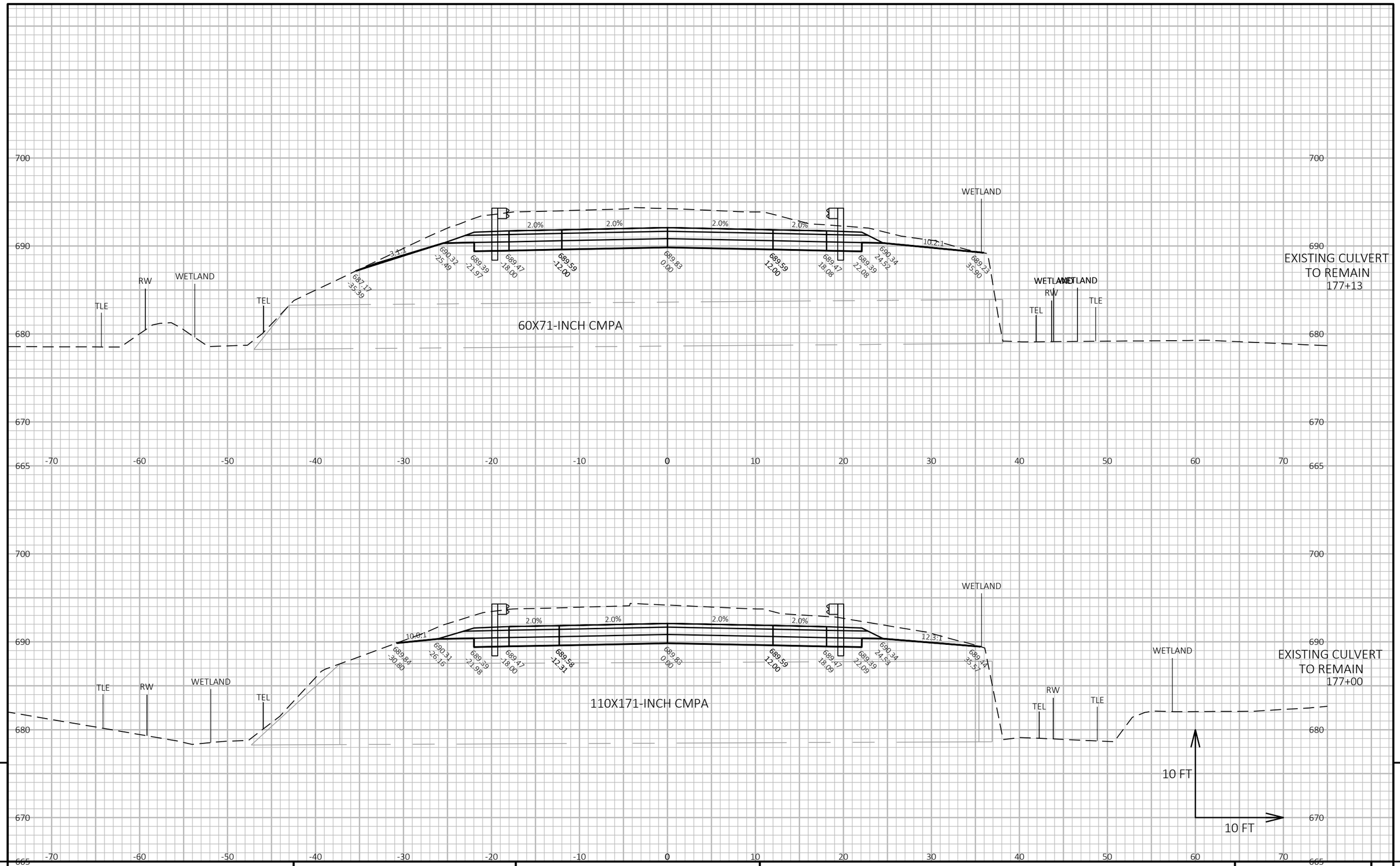
PLOT DATE : 8/1/2024 9:31 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 214	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-B-145-185.DWG
LAYOUT NAME - Model

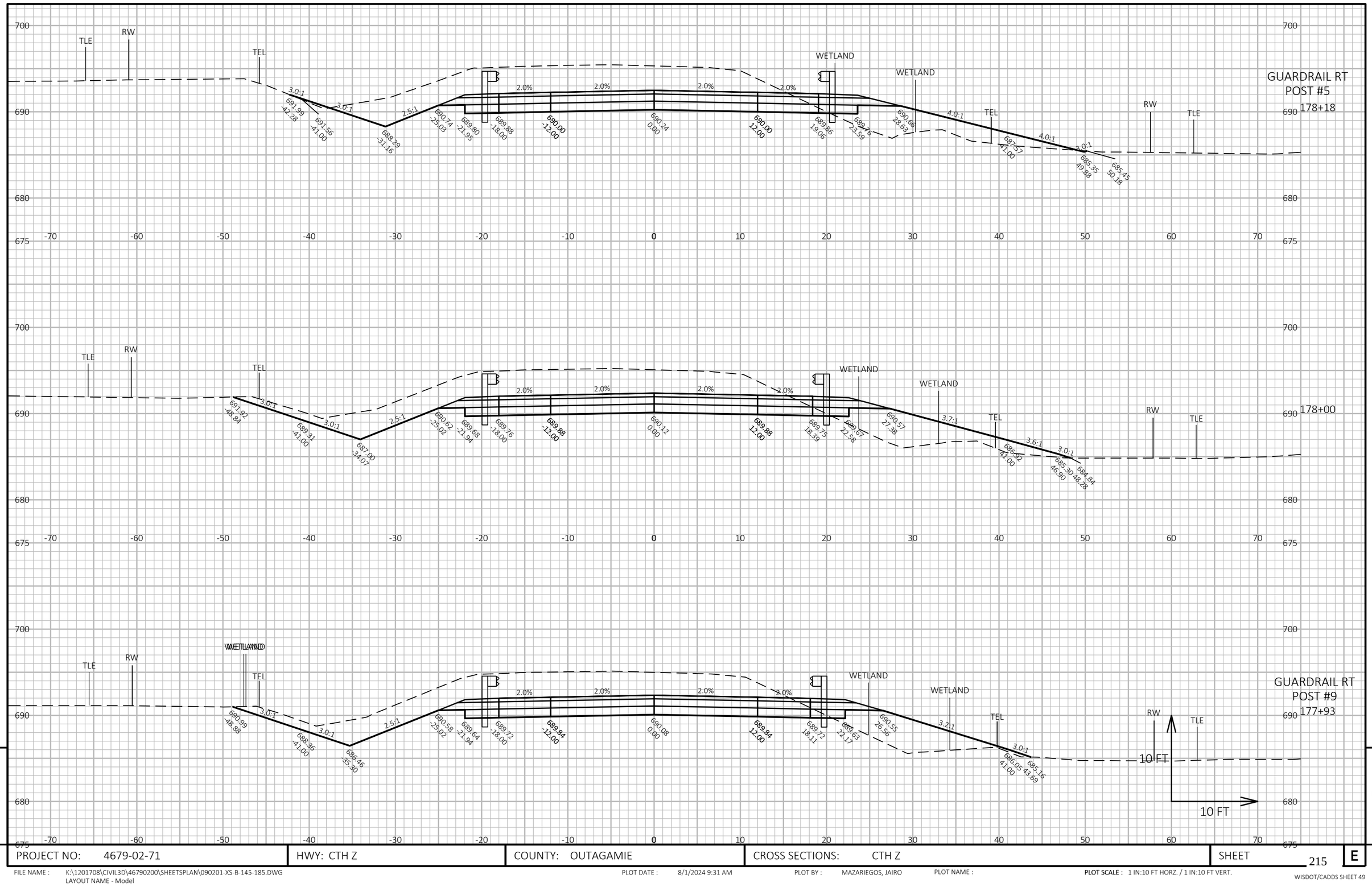
PLOT DATE : 8/1/2024 9:31 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 215	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-B-145-185.DWG
LAYOUT NAME - Model

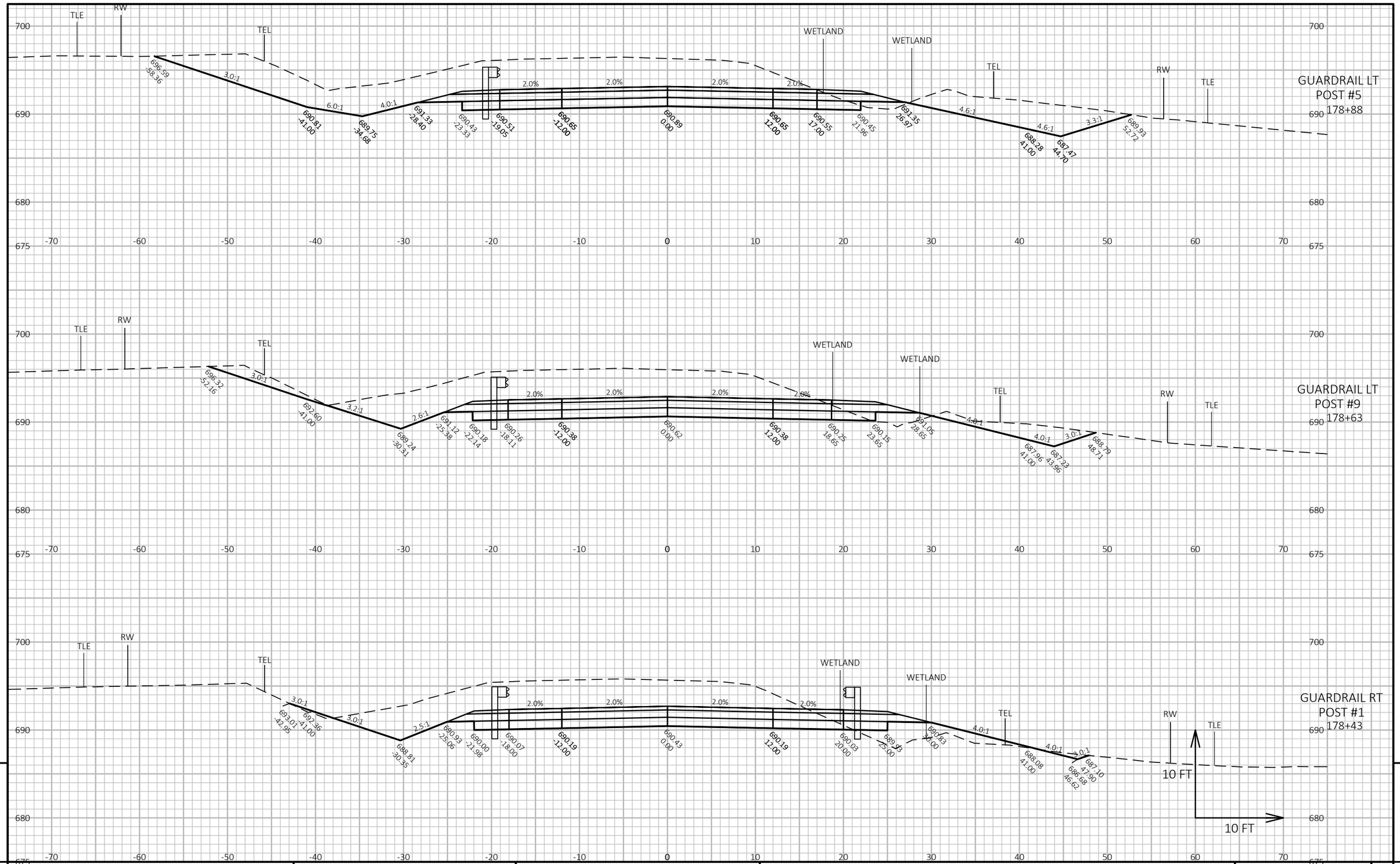
PLOT DATE : 8/1/2024 9:31 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 216	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-B-145-185.DWG
LAYOUT NAME - Model

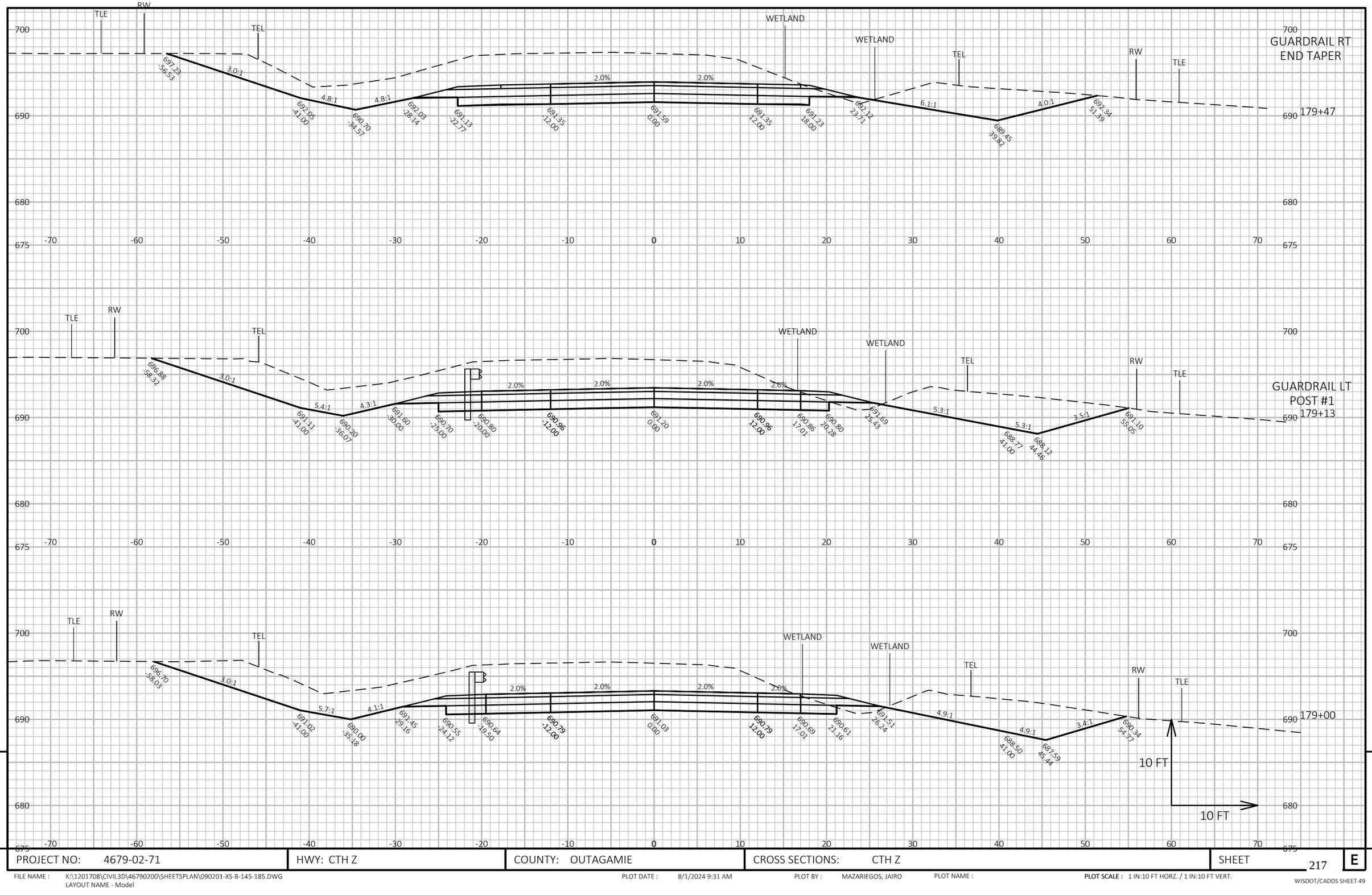
PLOT DATE : 8/1/2024 9:31 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 217	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-B-145-185.DWG
LAYOUT NAME - Model

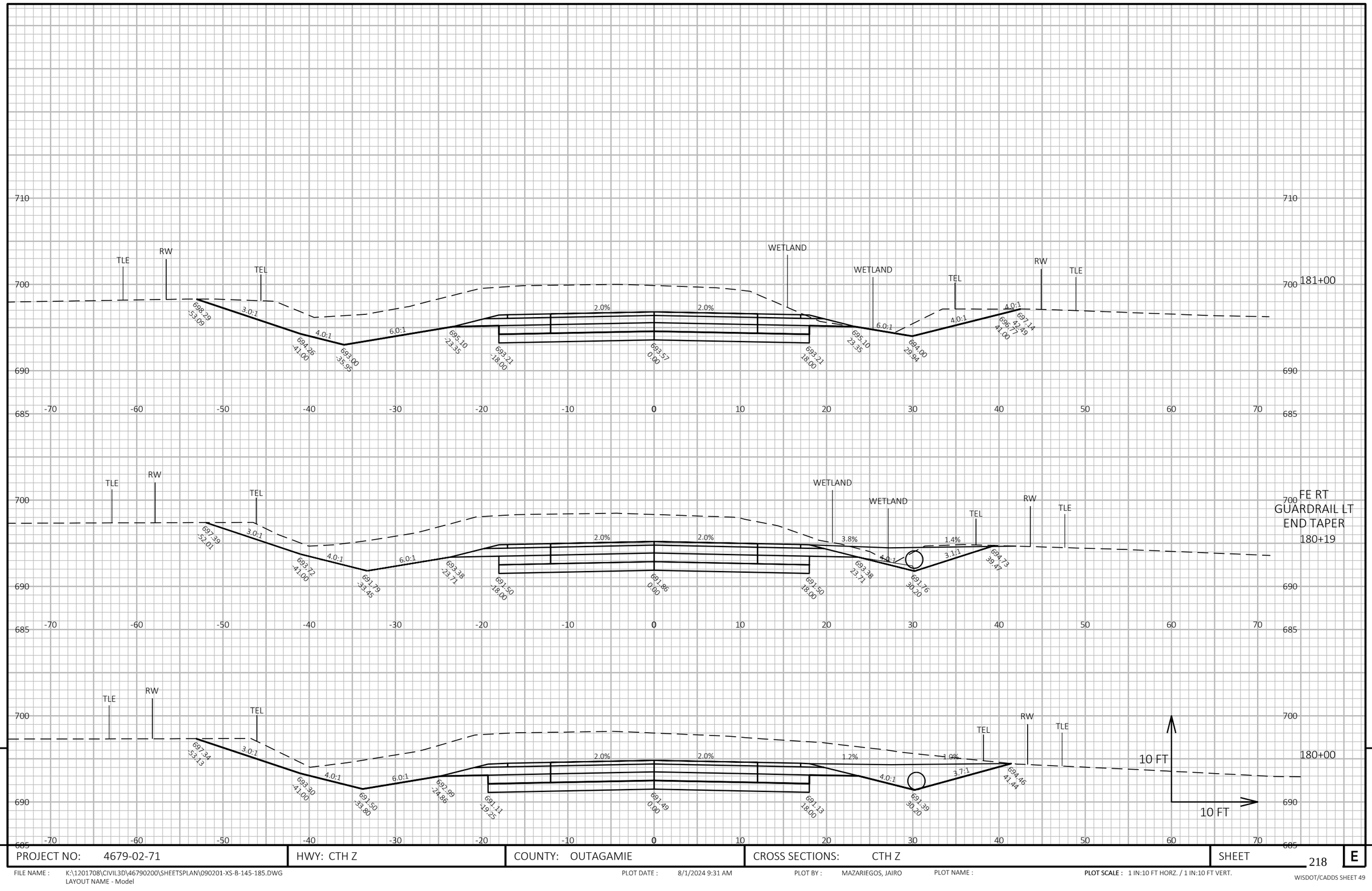
PLOT DATE : 8/1/2024 9:31 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 218	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-B-145-185.DWG
LAYOUT NAME - Model

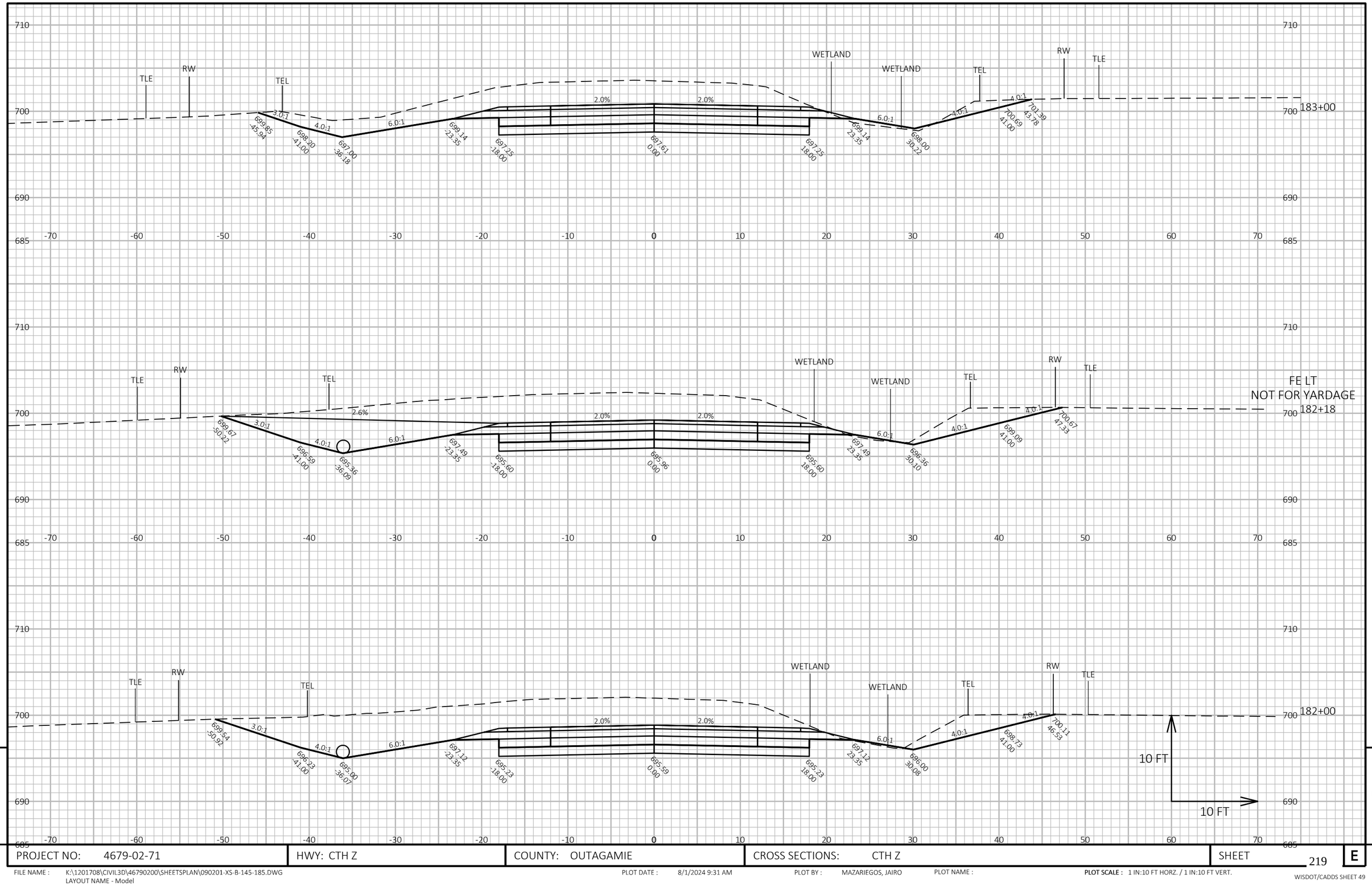
PLOT DATE : 8/1/2024 9:31 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 219	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-B-145-185.DWG
LAYOUT NAME - Model

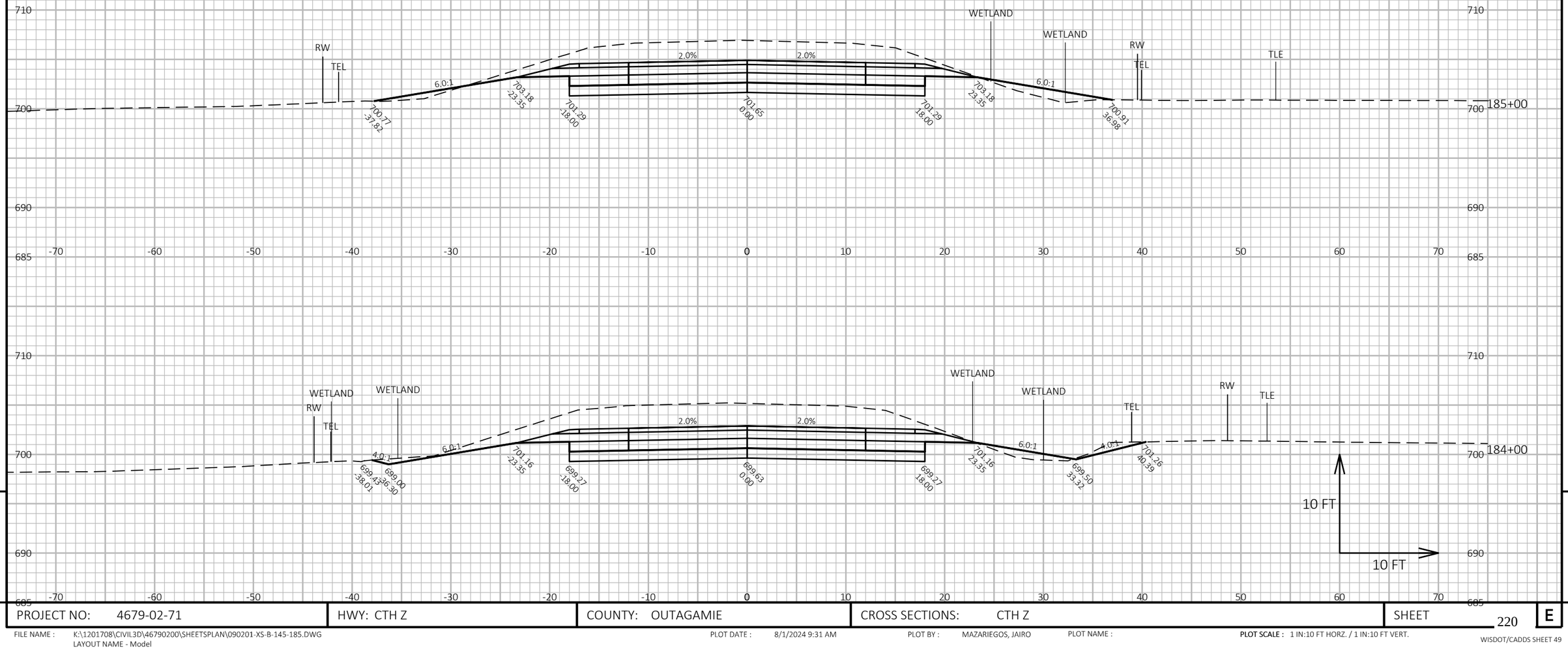
PLOT DATE : 8/1/2024 9:31 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 220	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-B-145-185.DWG
LAYOUT NAME - Model

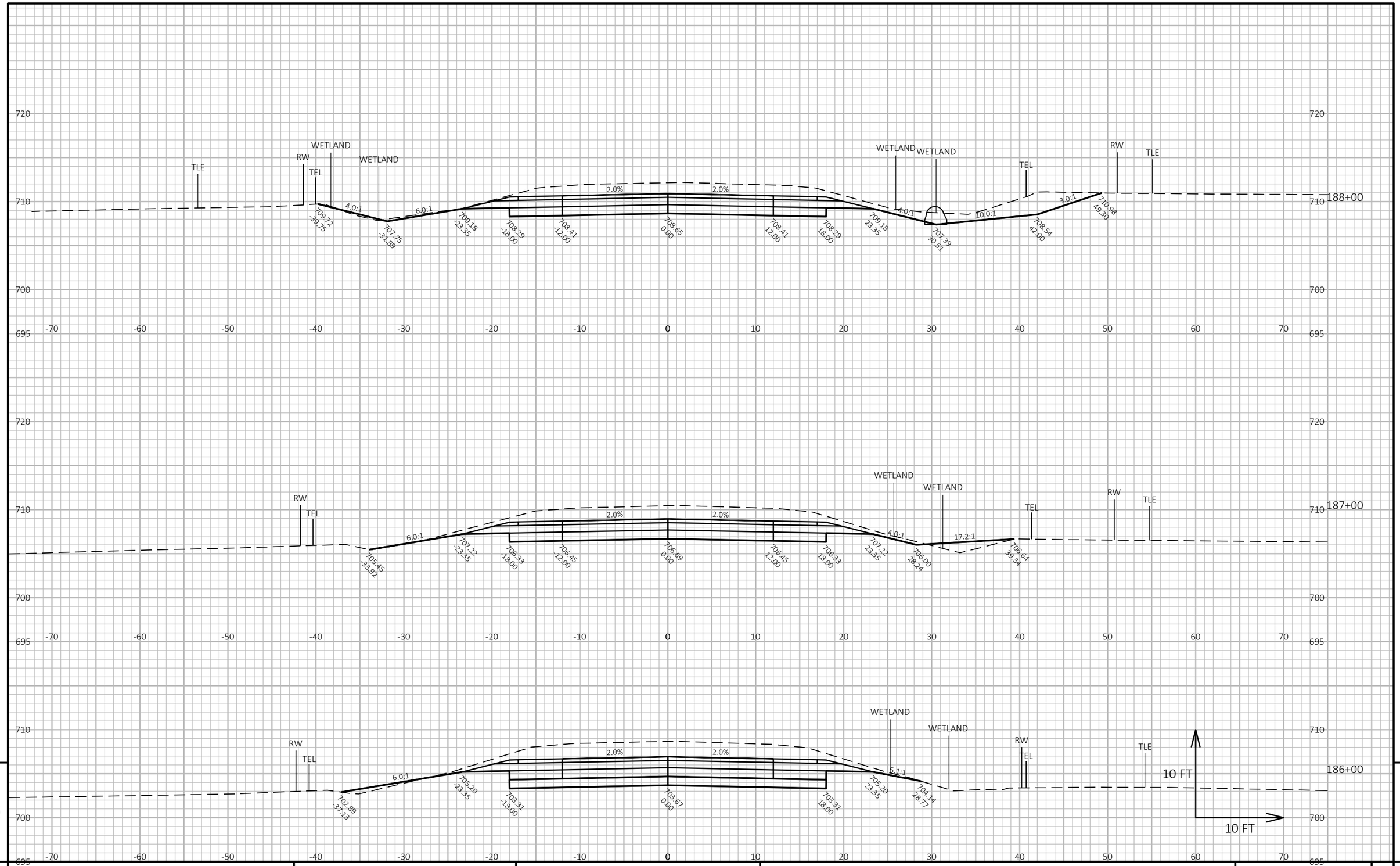
PLOT DATE : 8/1/2024 9:31 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 221	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-C-185-END.DWG
LAYOUT NAME - Model

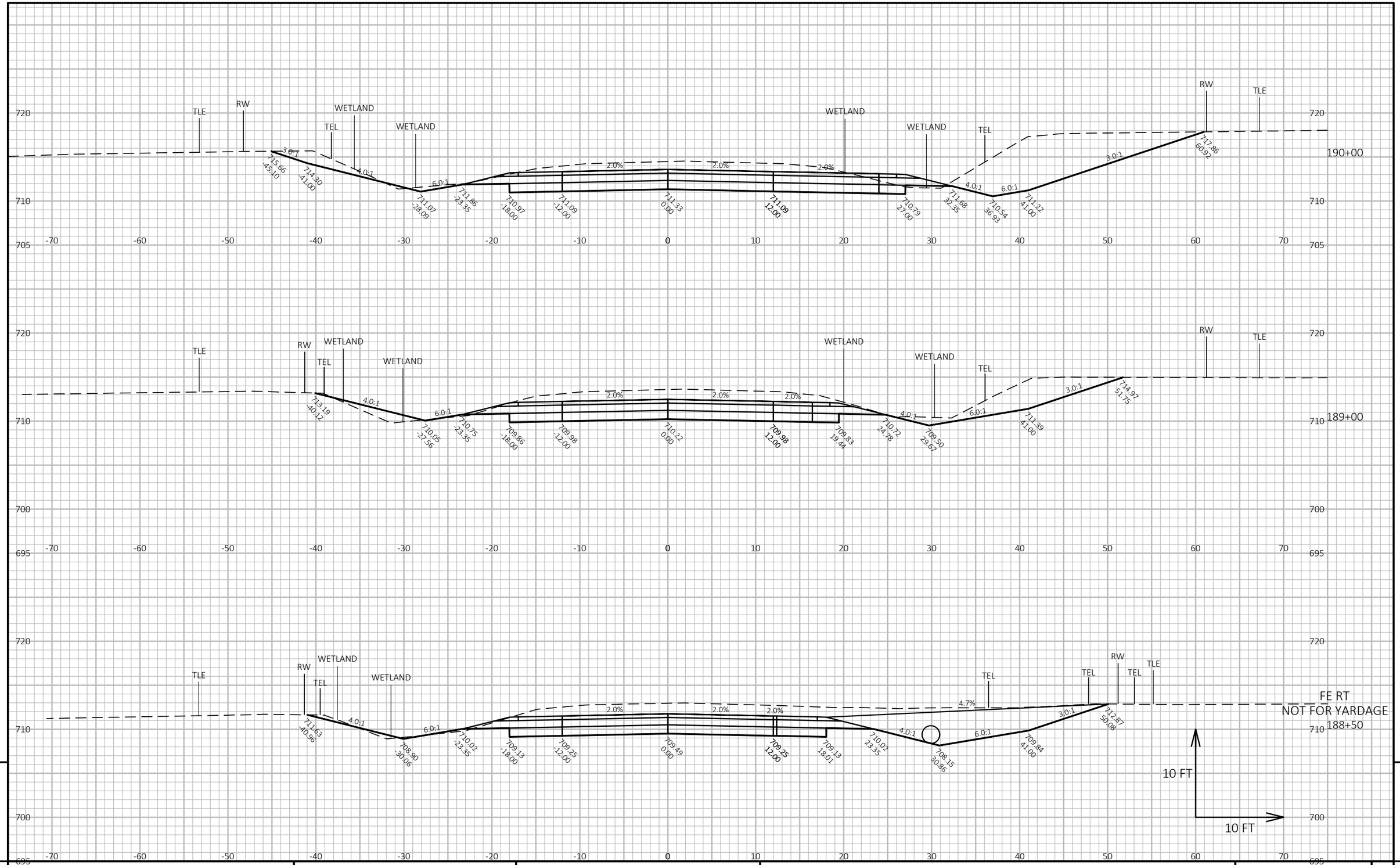
PLOT DATE : 8/1/2024 9:34 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

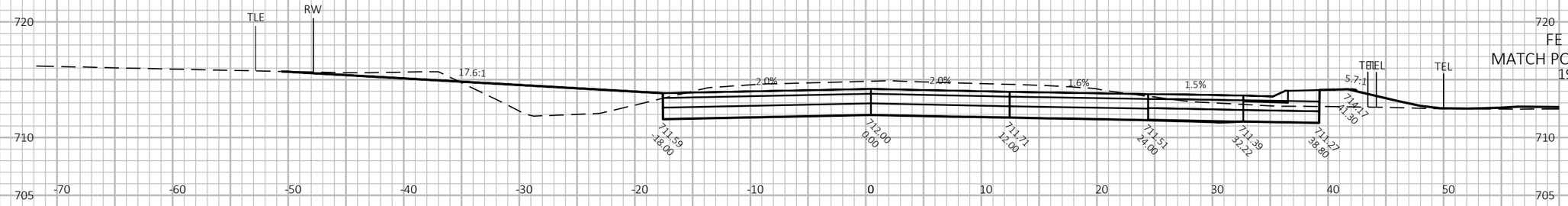
PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 222	E

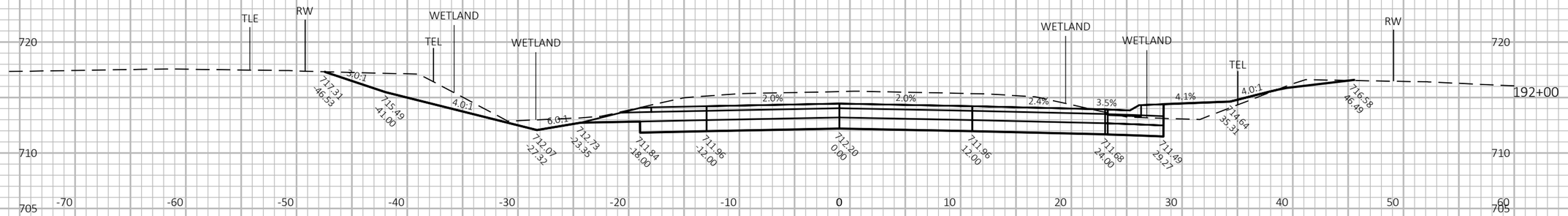
FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-C-185-END.DWG
LAYOUT NAME - Model

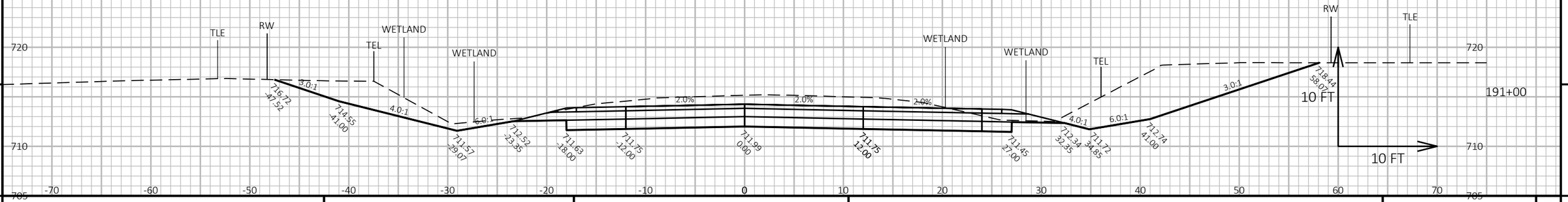
PLOT DATE : 8/1/2024 9:34 AM PLOT BY : MAZARIEGOS, JAIRO PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49







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9

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 223	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-C-185-END.DWG
LAYOUT NAME - Model

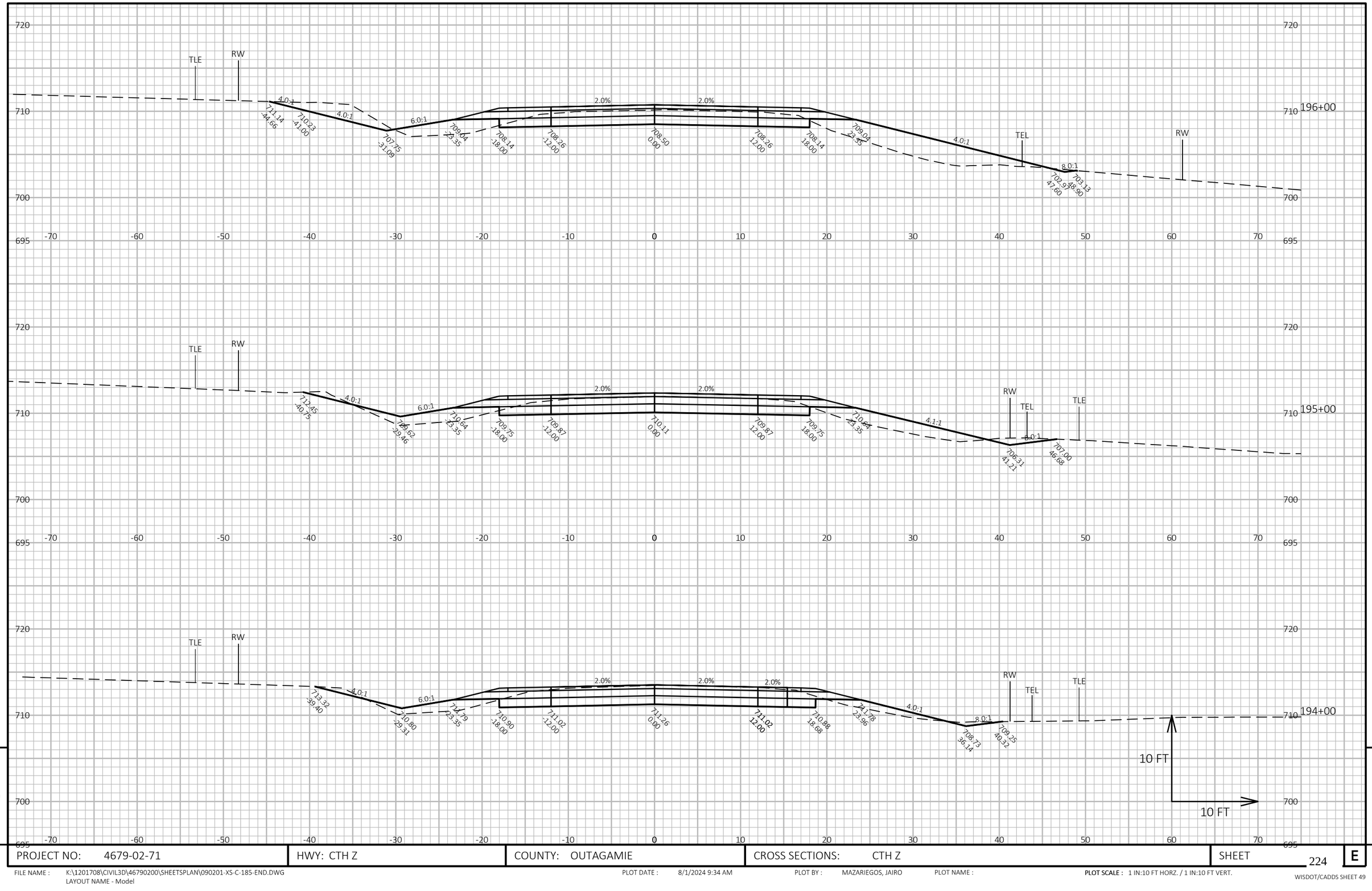
PLOT DATE : 8/1/2024 9:34 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 224	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-C-185-END.DWG
LAYOUT NAME - Model

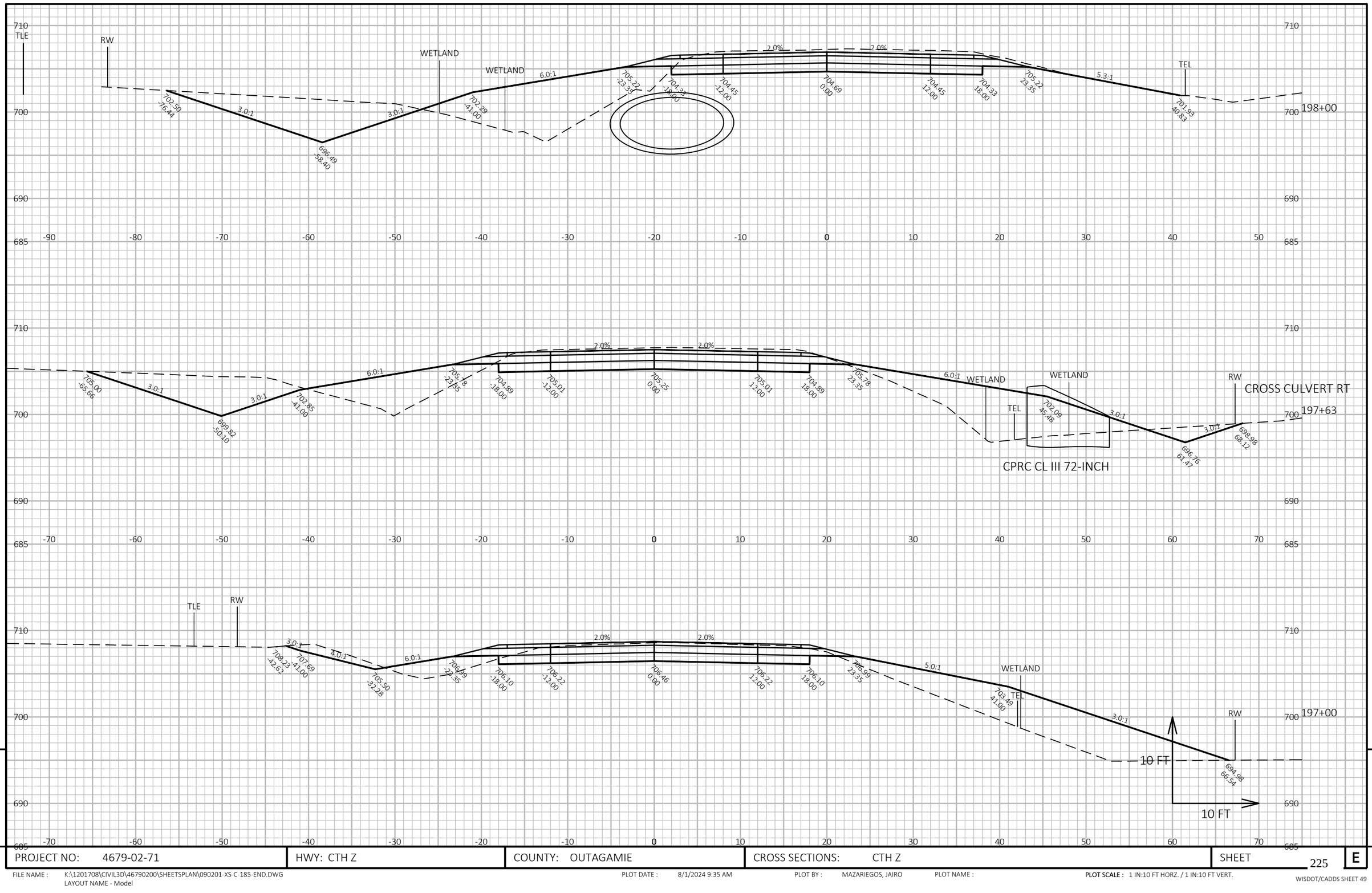
PLOT DATE : 8/1/2024 9:34 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 225	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-C-185-END.DWG
LAYOUT NAME - Model

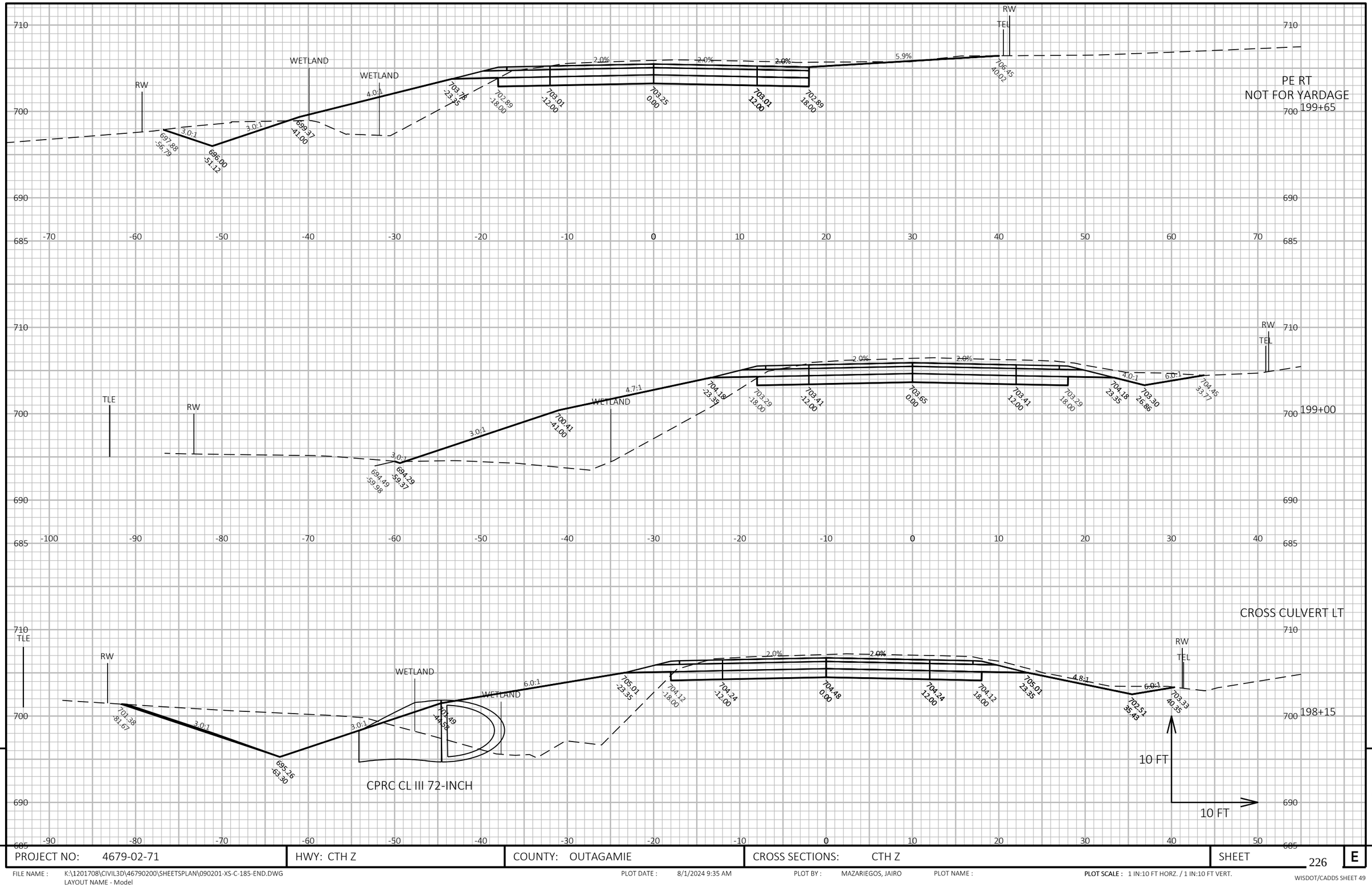
PLOT DATE : 8/1/2024 9:35 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 226	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-C-185-END.DWG
LAYOUT NAME - Model

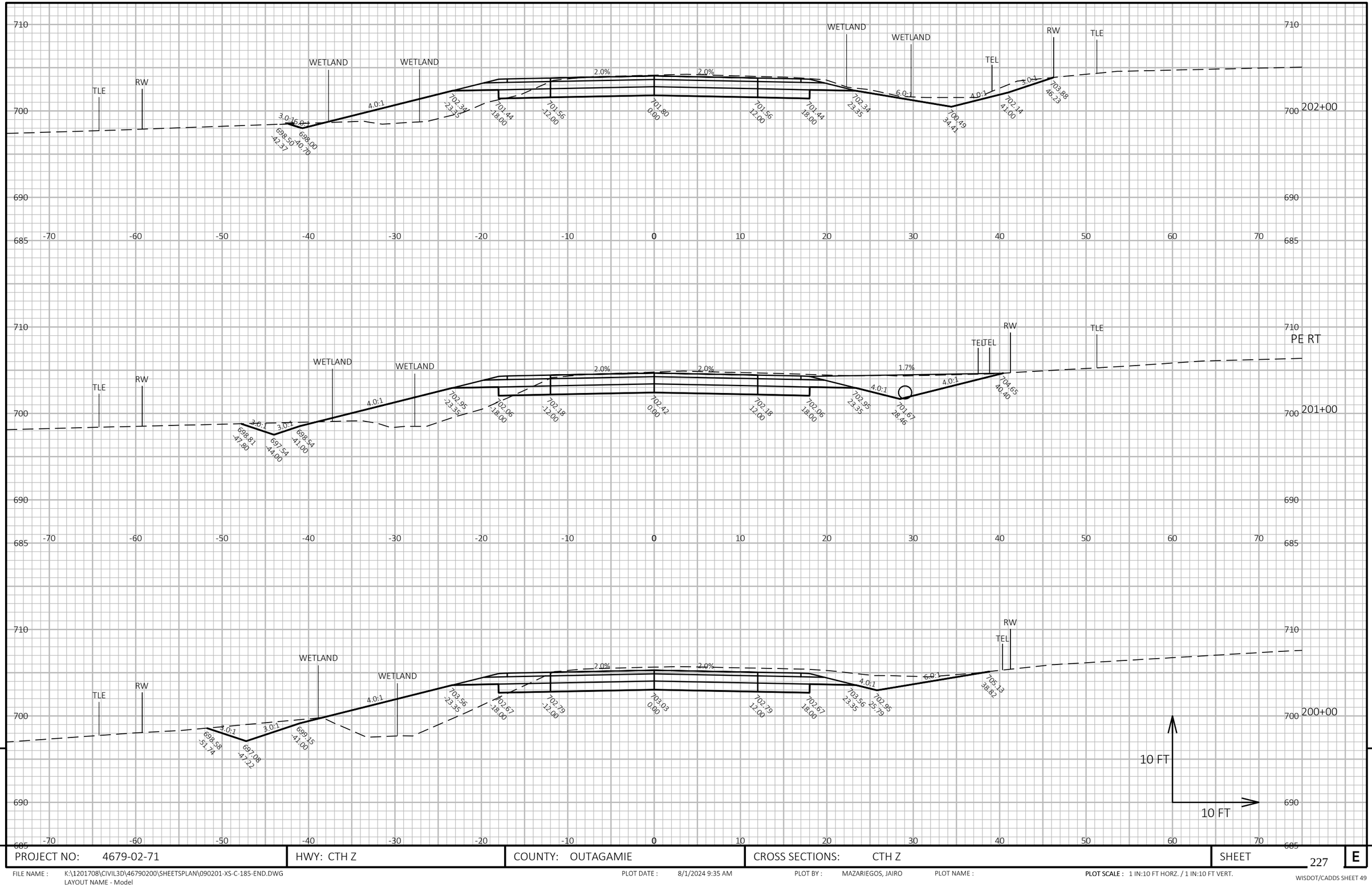
PLOT DATE : 8/1/2024 9:35 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 227	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-C-185-END.DWG
LAYOUT NAME - Model

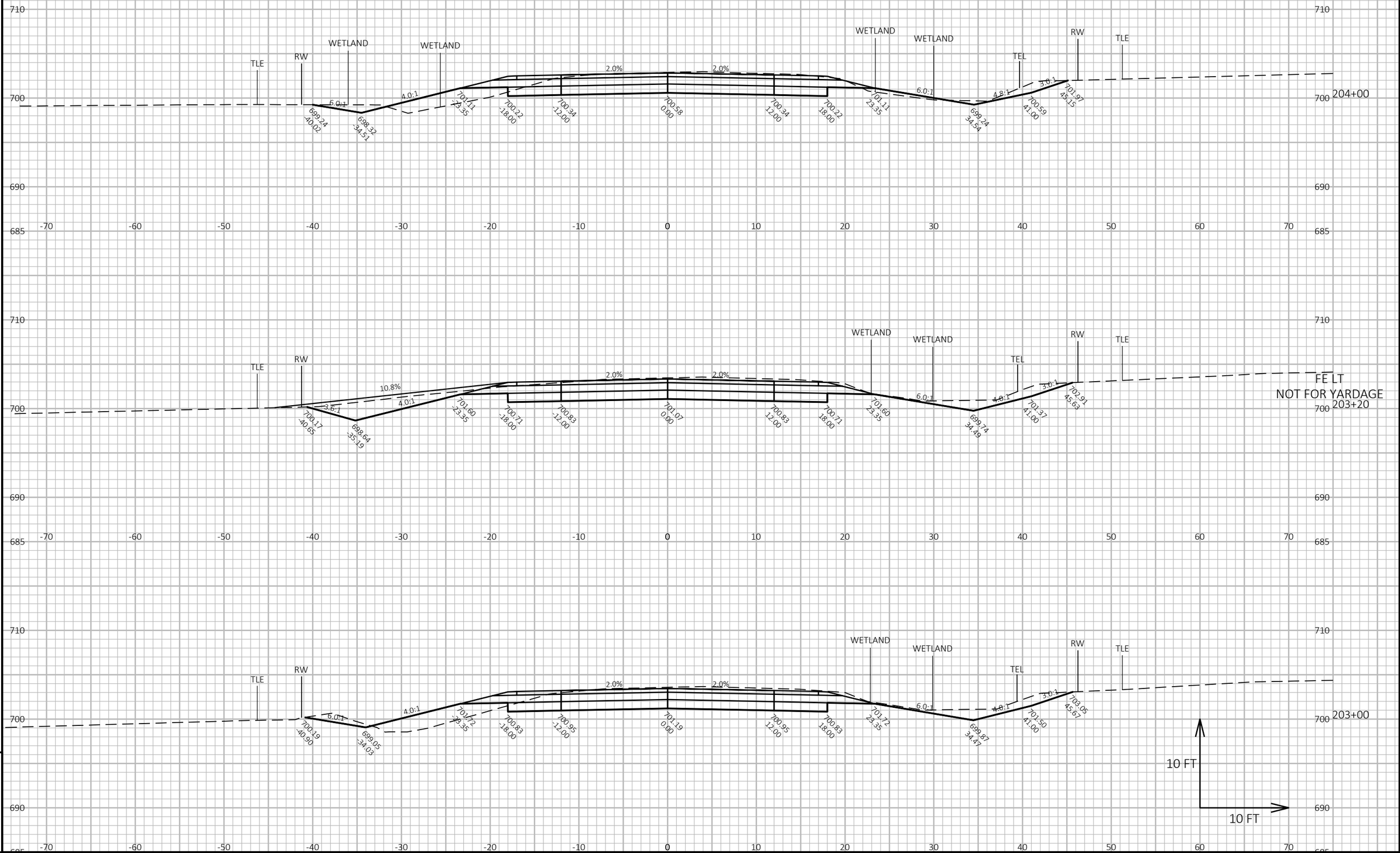
PLOT DATE : 8/1/2024 9:35 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 228	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-C-185-END.DWG
LAYOUT NAME - Model

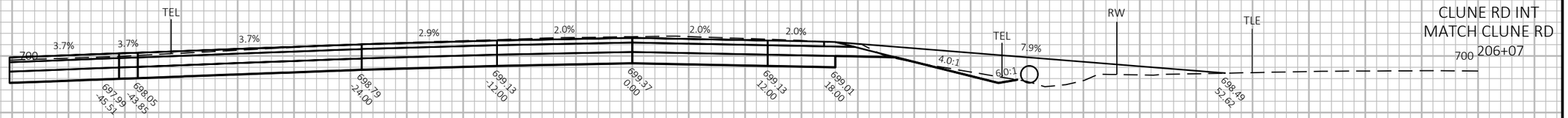
PLOT DATE : 8/1/2024 9:35 AM

PLOT BY : MAZARIEGOS, JAIRO

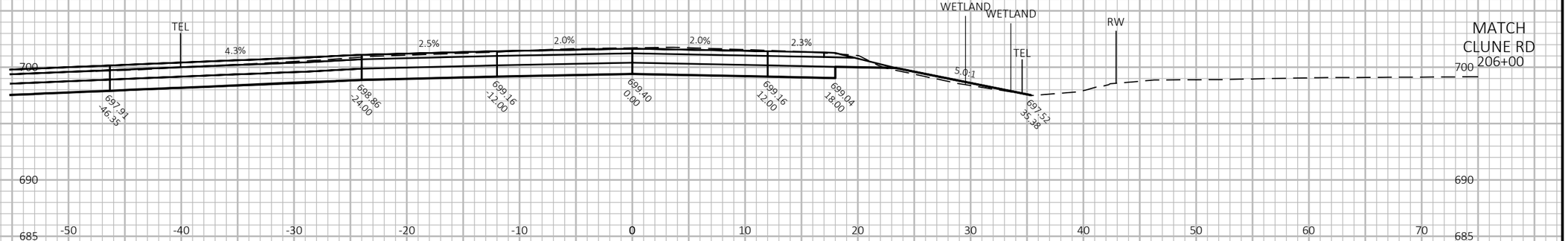
PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

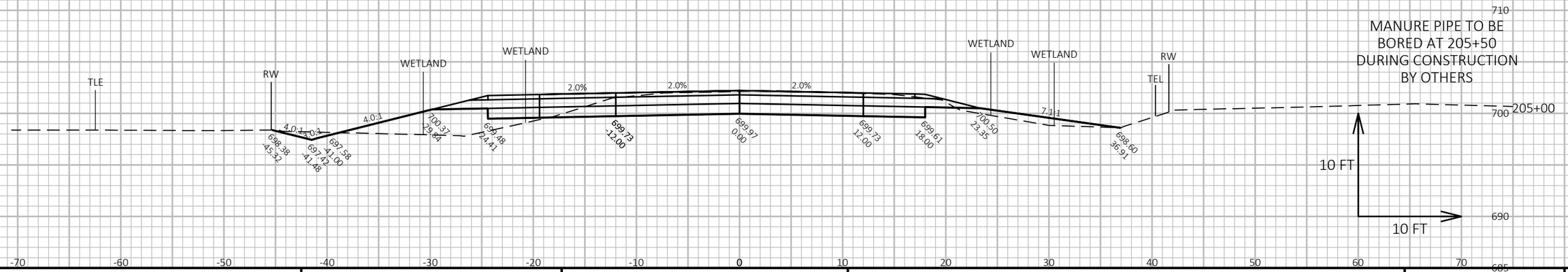
WISDOT/CADDS SHEET 49



CLUNE RD INT
MATCH CLUNE RD
206+07



MATCH
CLUNE RD
206+00



MANURE PIPE TO BE
BORED AT 205+50
DURING CONSTRUCTION
BY OTHERS

205+00

10 FT

10 FT

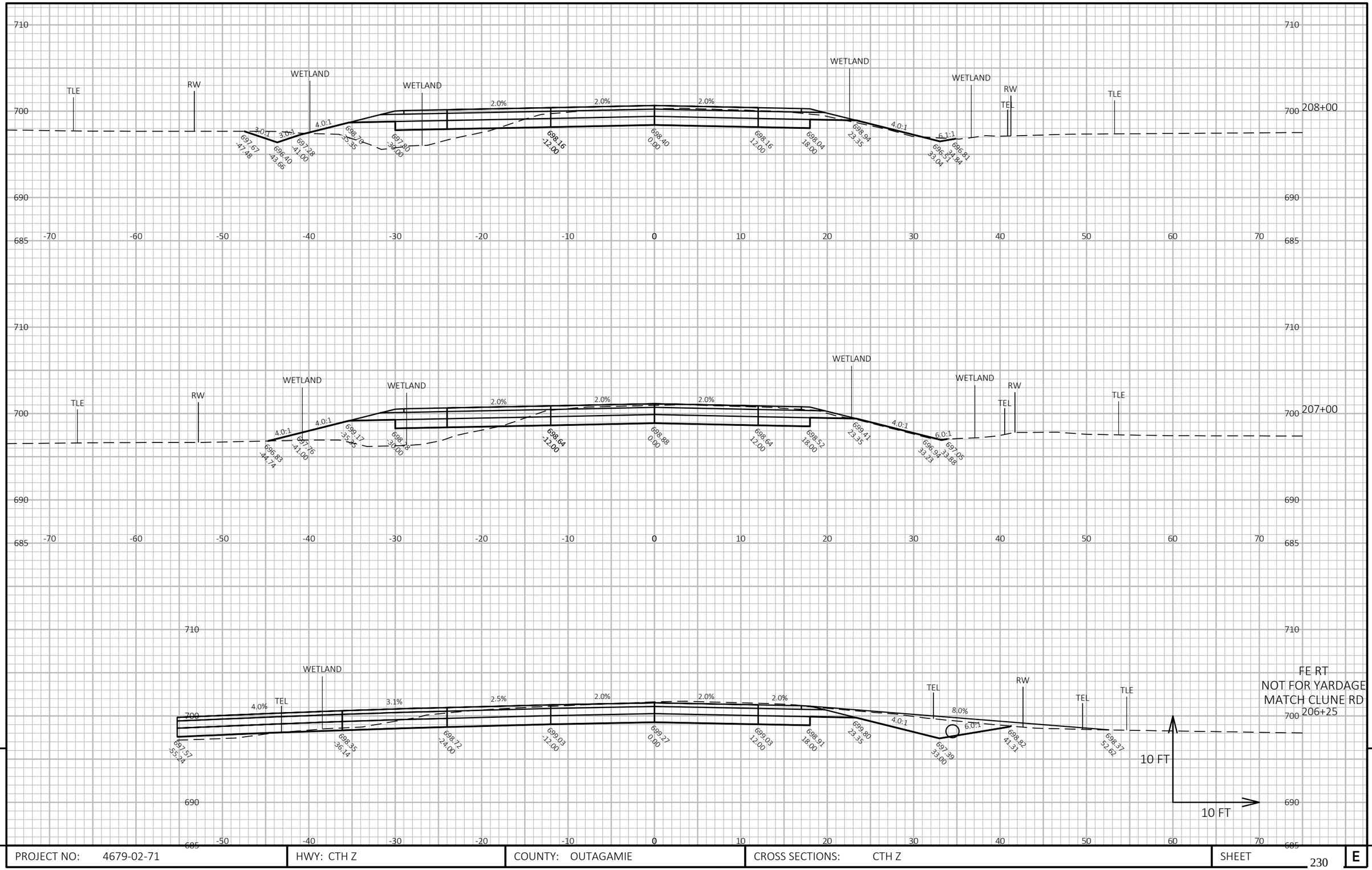
9

9

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 229	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-C-185-END.DWG
LAYOUT NAME - Model

PLOT DATE : 8/1/2024 9:35 AM PLOT BY : MAZARIEGOS, JAIRO PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 230	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-C-185-END.DWG
LAYOUT NAME - Model

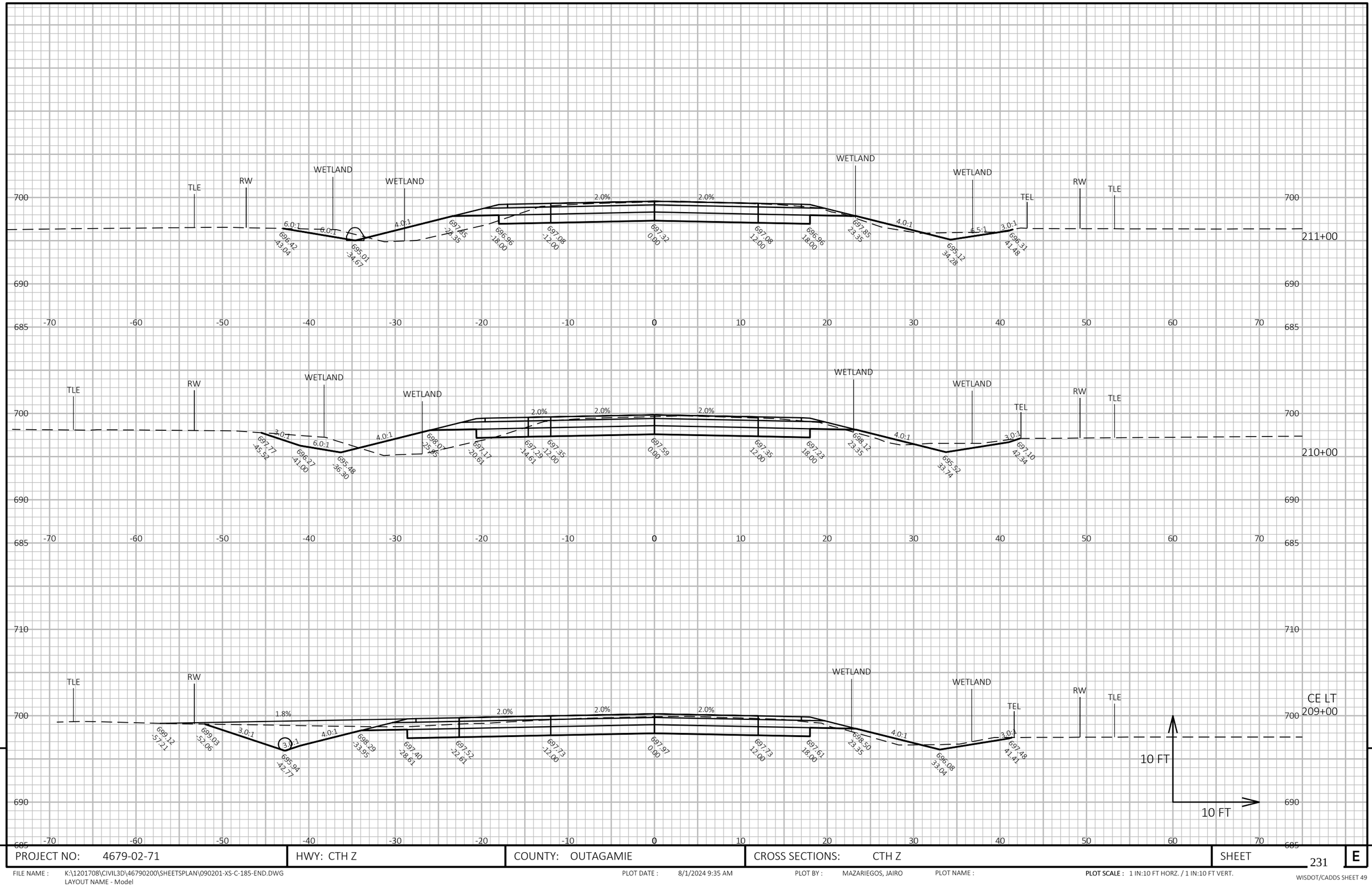
PLOT DATE : 8/1/2024 9:35 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 231	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-C-185-END.DWG
LAYOUT NAME - Model

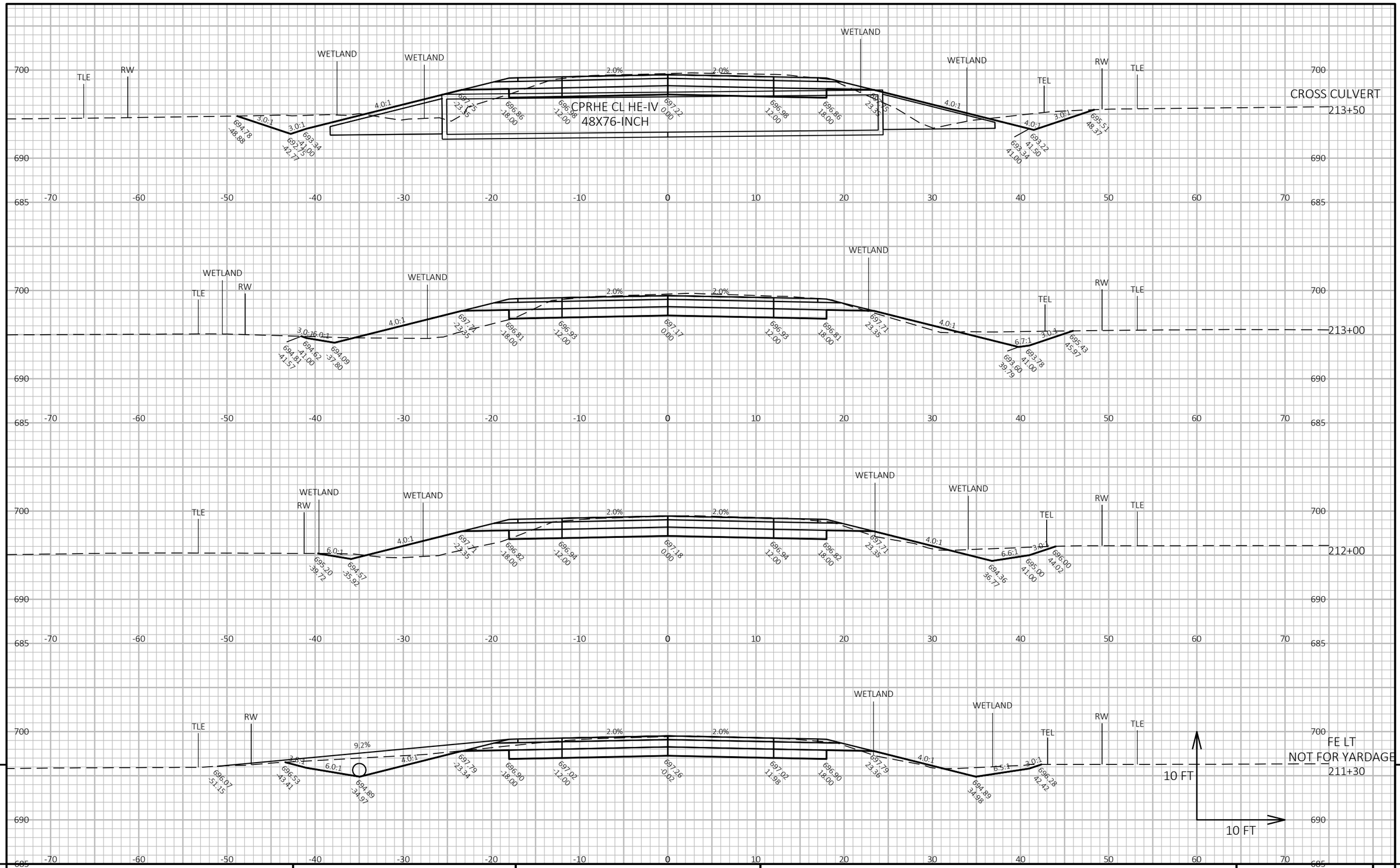
PLOT DATE : 8/1/2024 9:35 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 232 E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-C-185-END.DWG
LAYOUT NAME - Model

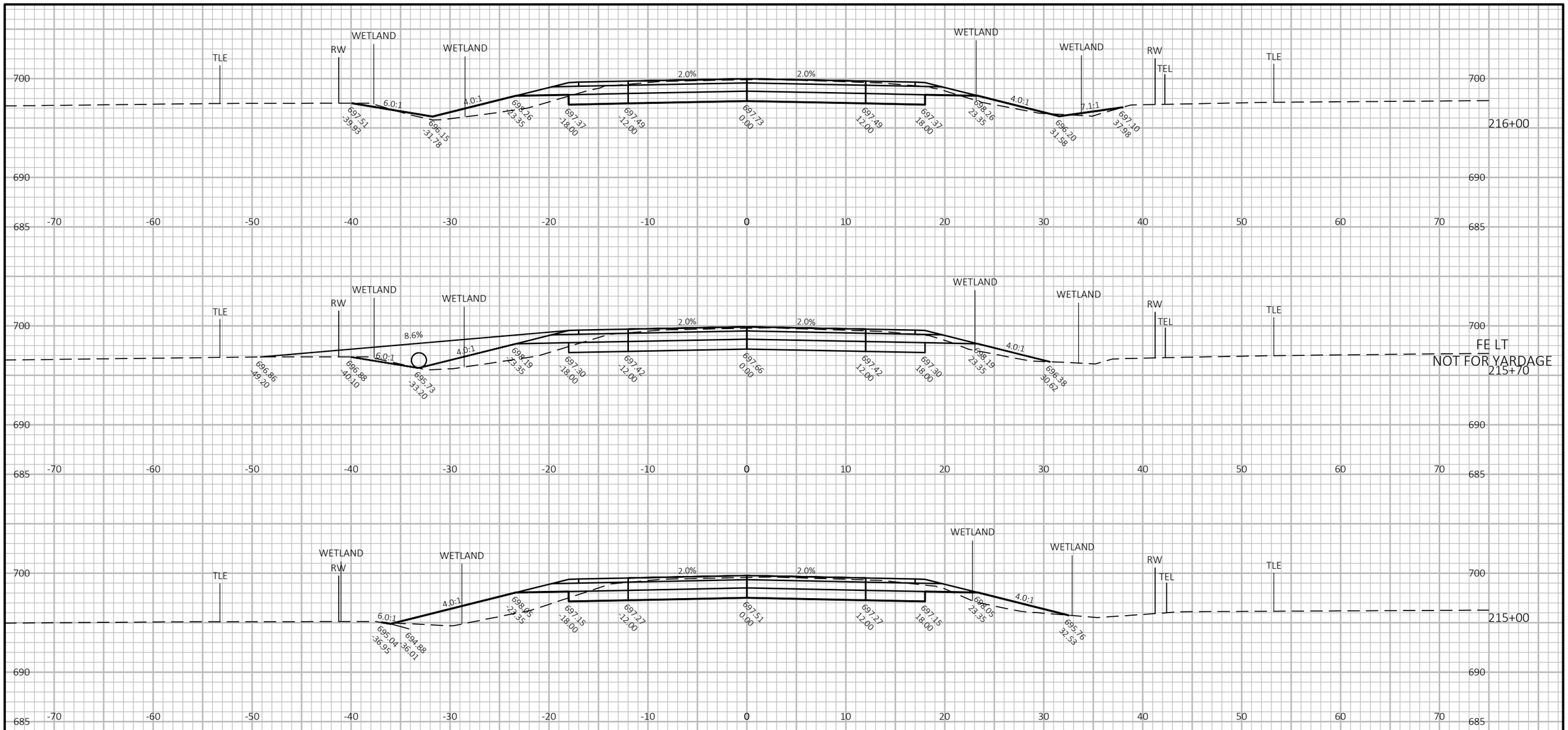
PLOT DATE : 8/1/2024 9:35 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 233	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-C-185-END.DWG
LAYOUT NAME - Model

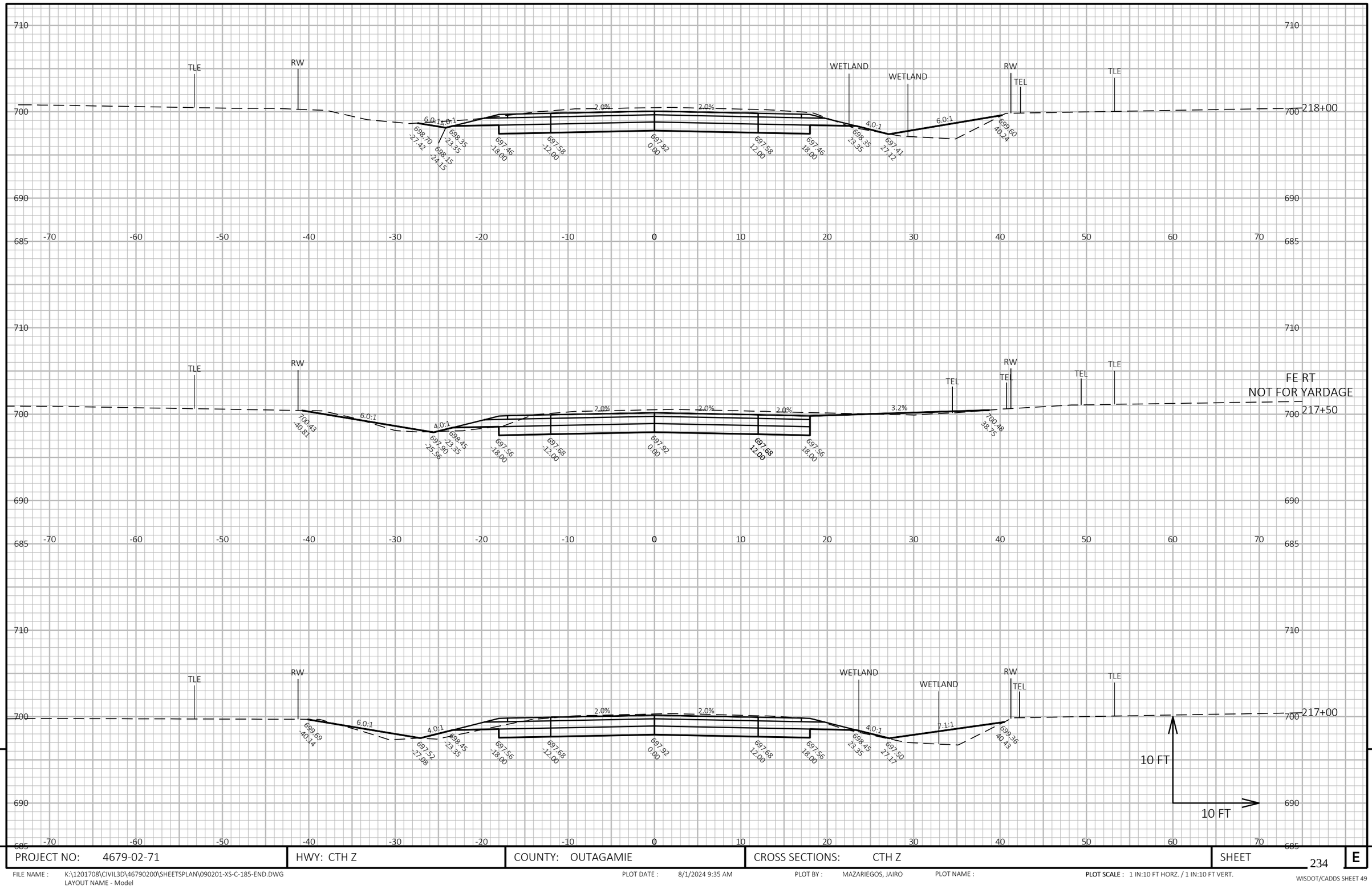
PLOT DATE : 8/1/2024 9:35 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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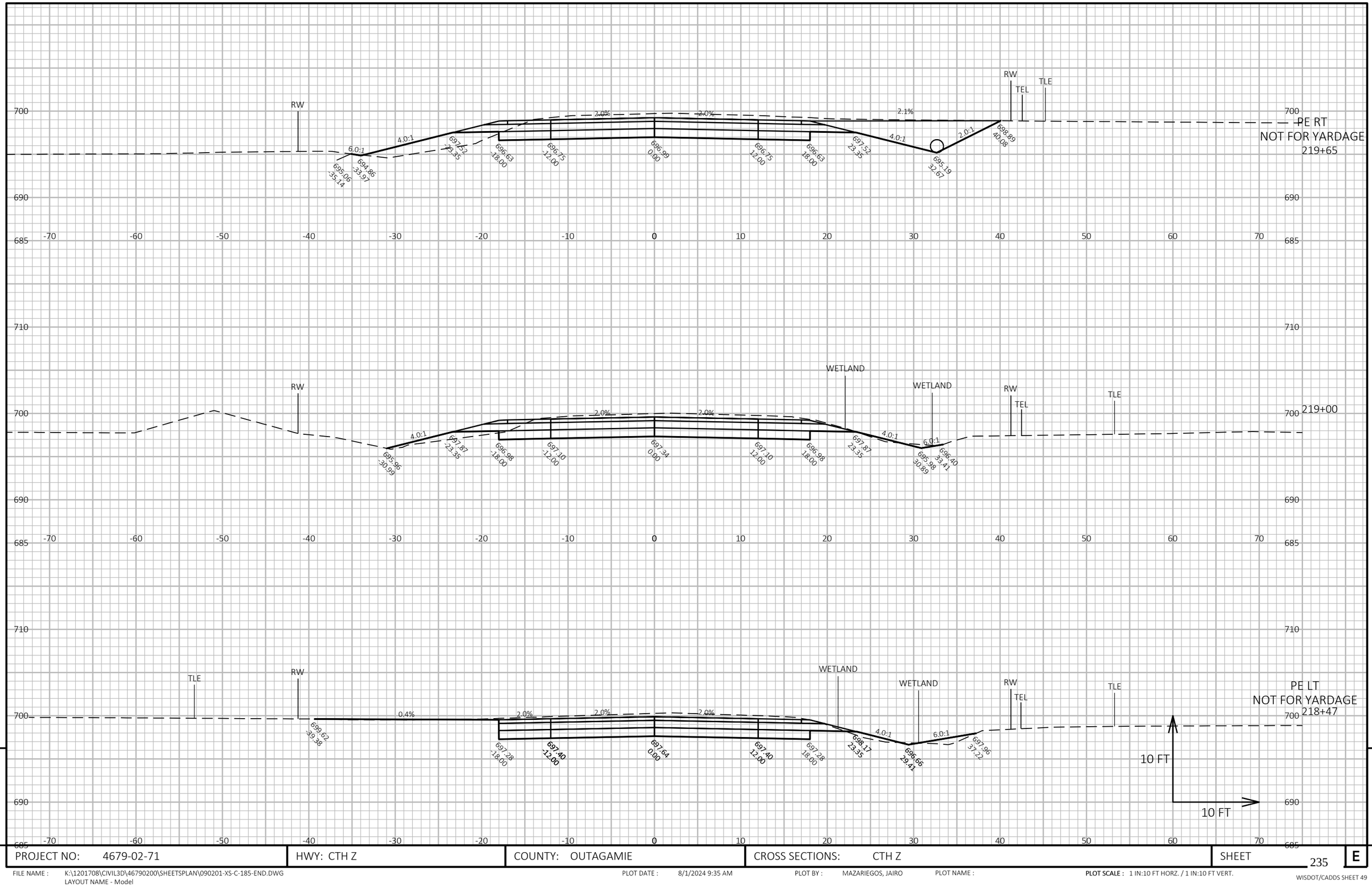
PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 234	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-C-185-END.DWG
LAYOUT NAME - Model

PLOT DATE : 8/1/2024 9:35 AM PLOT BY : MAZARIEGOS, JAIRO PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

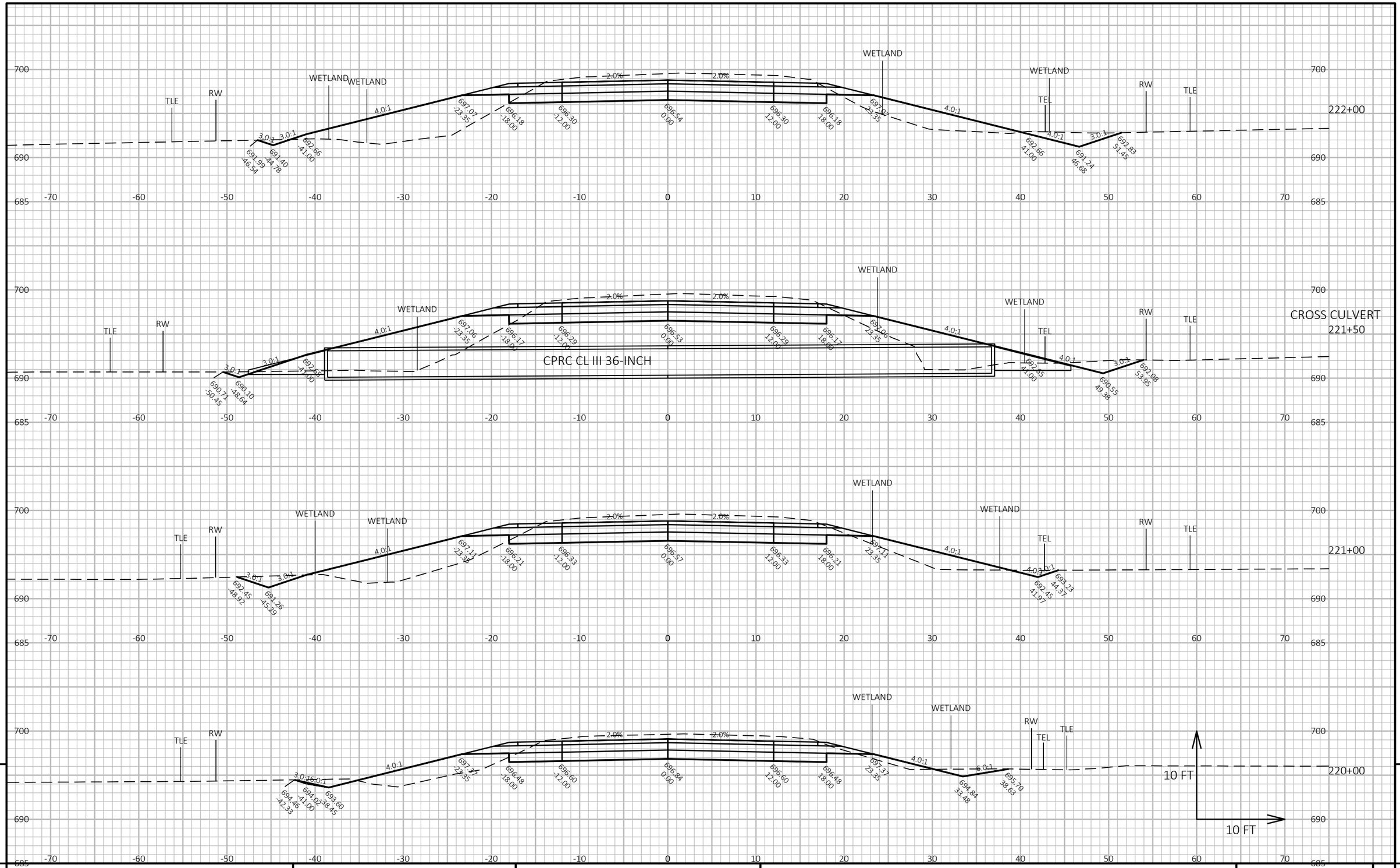


PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 235 E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-C-185-END.DWG
LAYOUT NAME - Model

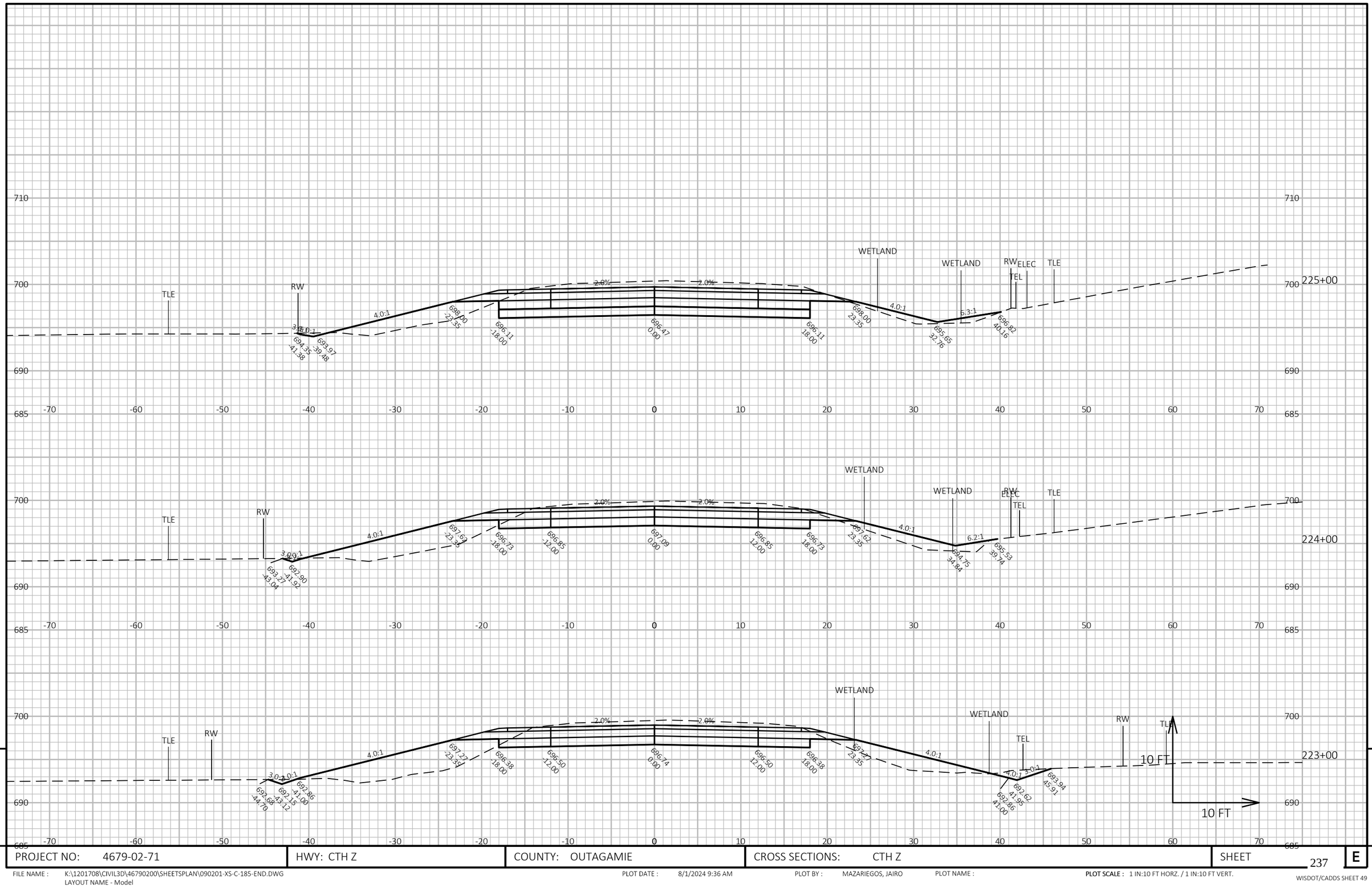
PLOT DATE : 8/1/2024 9:35 AM PLOT BY : MAZARIEGOS, JAIRO PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 236 E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-C-185-END.DWG
LAYOUT NAME - Model
PLOT DATE : 8/1/2024 9:35 AM
PLOT BY : MAZARIEGOS, JAIRO
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



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PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 237	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-C-185-END.DWG
LAYOUT NAME - Model

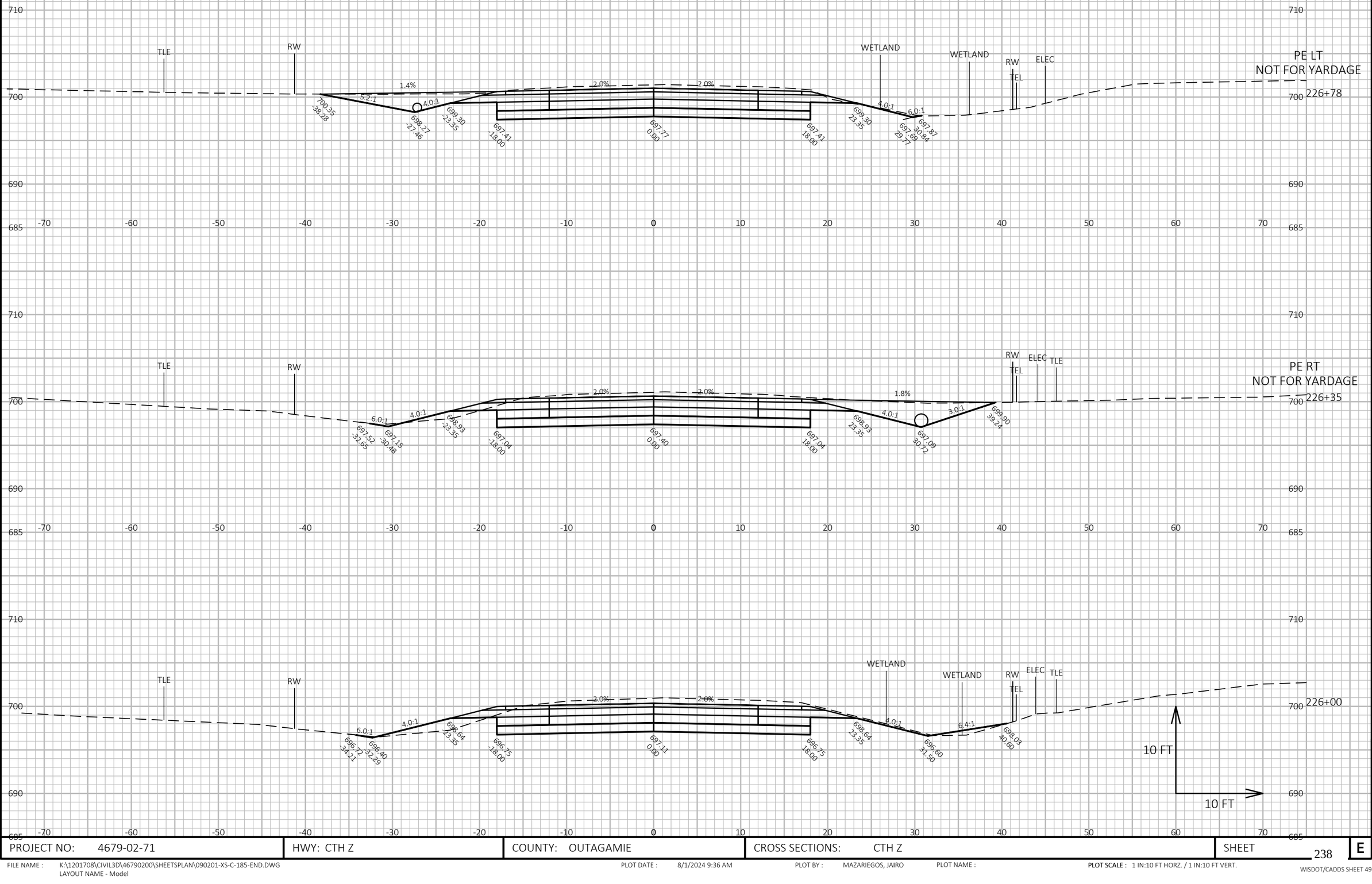
PLOT DATE : 8/1/2024 9:36 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

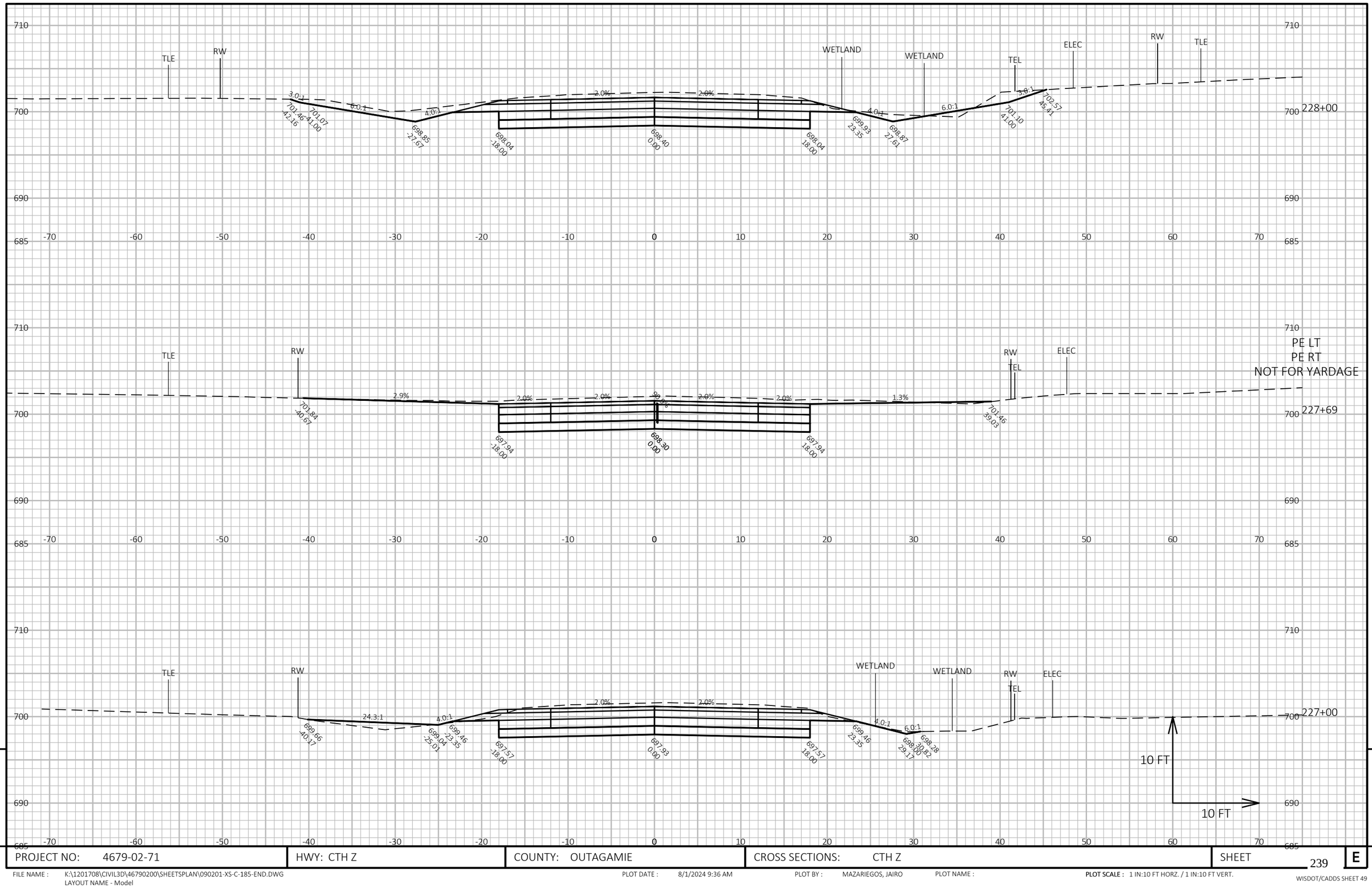


PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 238 E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-C-185-END.DWG
LAYOUT NAME - Model

PLOT DATE : 8/1/2024 9:36 AM PLOT BY : MAZARIEGOS, JAIRO PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 239	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-C-185-END.DWG
LAYOUT NAME - Model

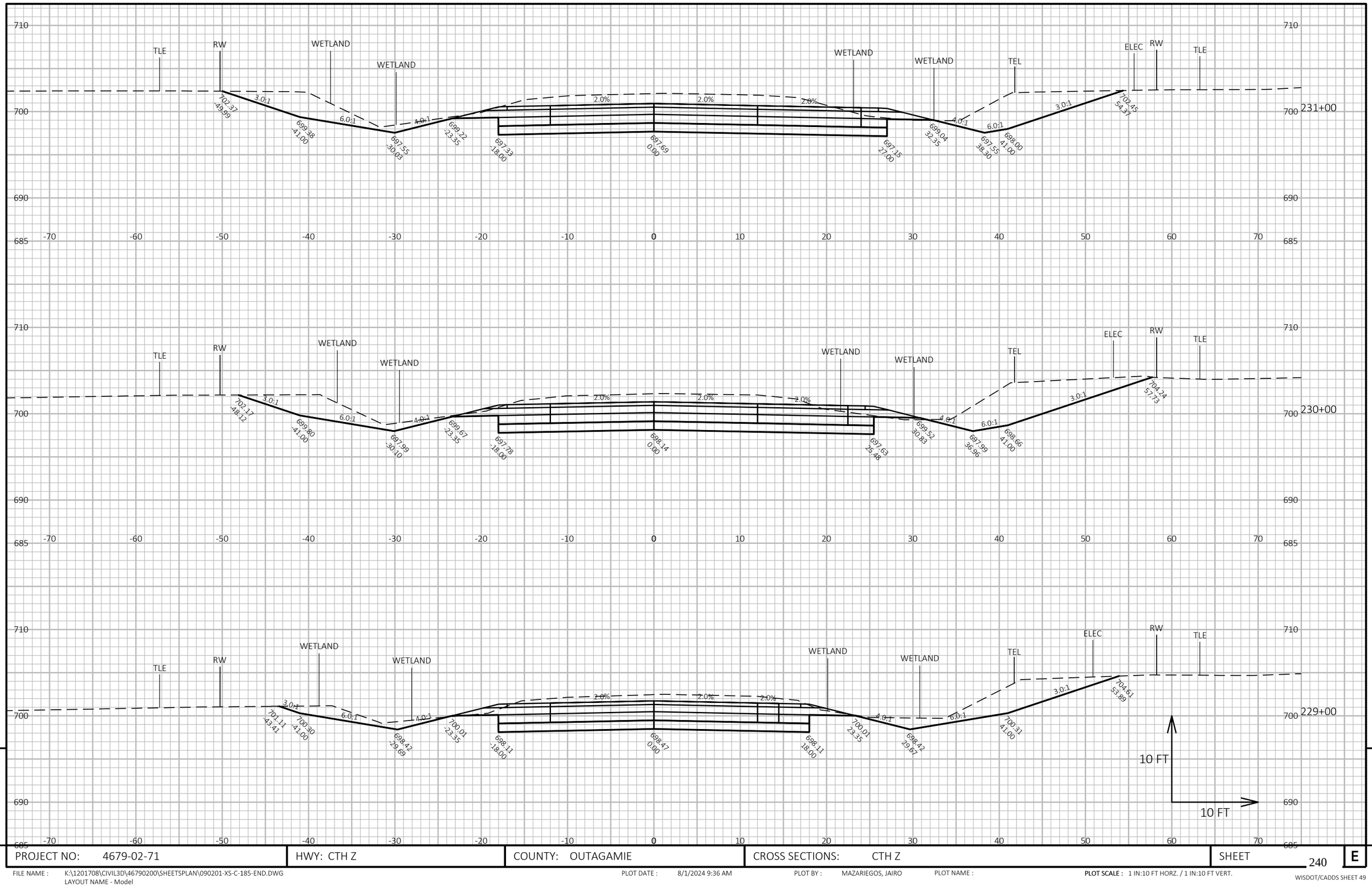
PLOT DATE : 8/1/2024 9:36 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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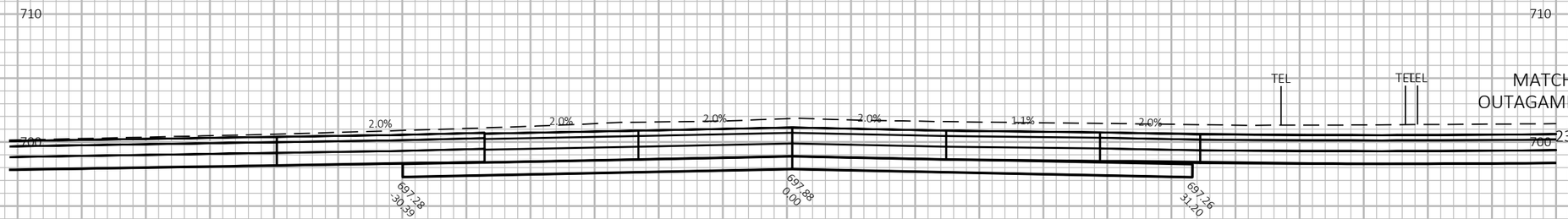
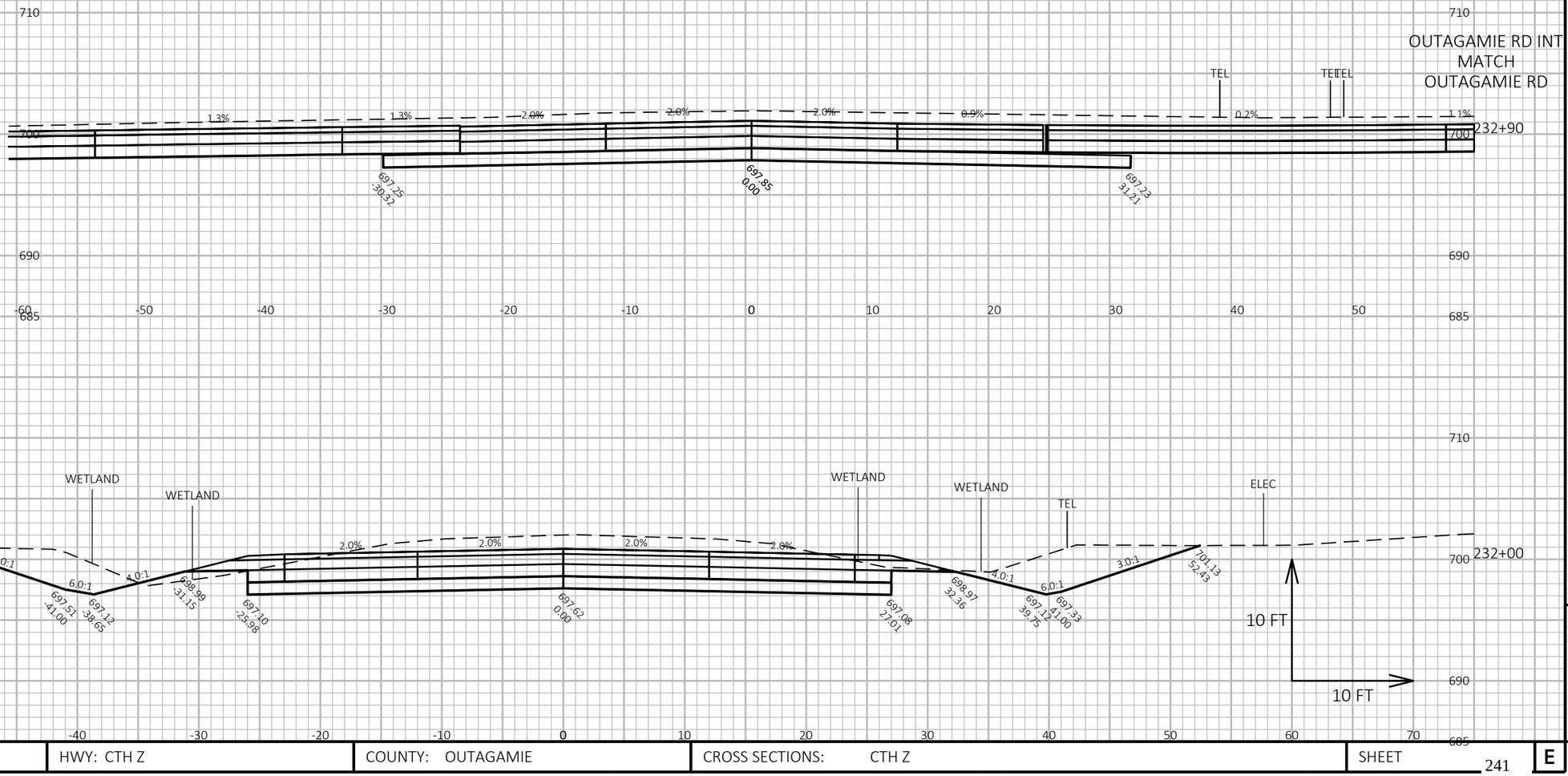
9

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 240	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-C-185-END.DWG
LAYOUT NAME - Model

PLOT DATE : 8/1/2024 9:36 AM PLOT BY : MAZARIEGOS, JAIRO PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.





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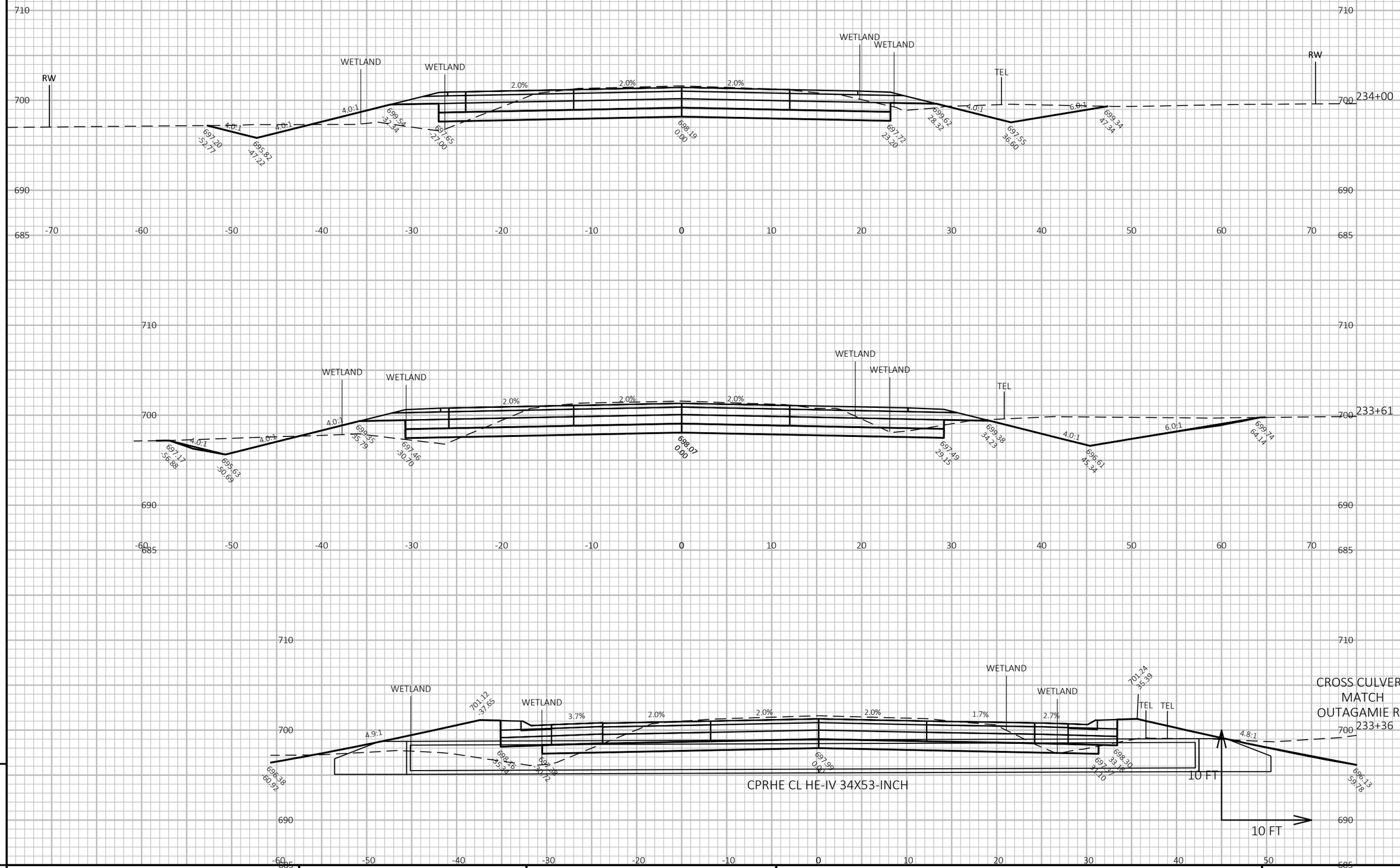
9

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 241	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-C-185-END.DWG
LAYOUT NAME - Model

PLOT DATE : 8/1/2024 9:36 AM PLOT BY : MAZARIEGOS, JAIRO PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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9

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 242	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-C-185-END.DWG
LAYOUT NAME - Model

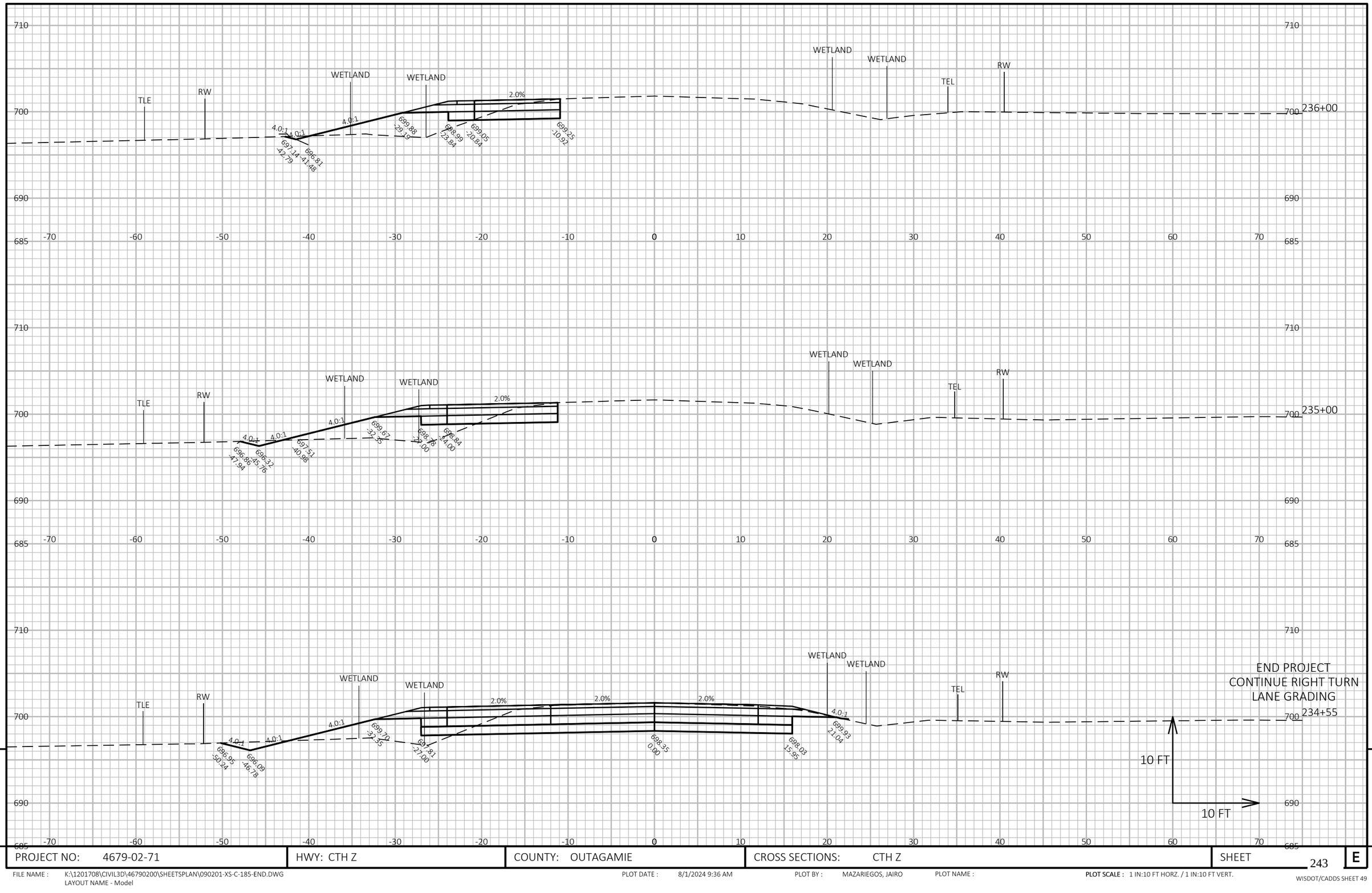
PLOT DATE : 8/1/2024 9:36 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 243	E

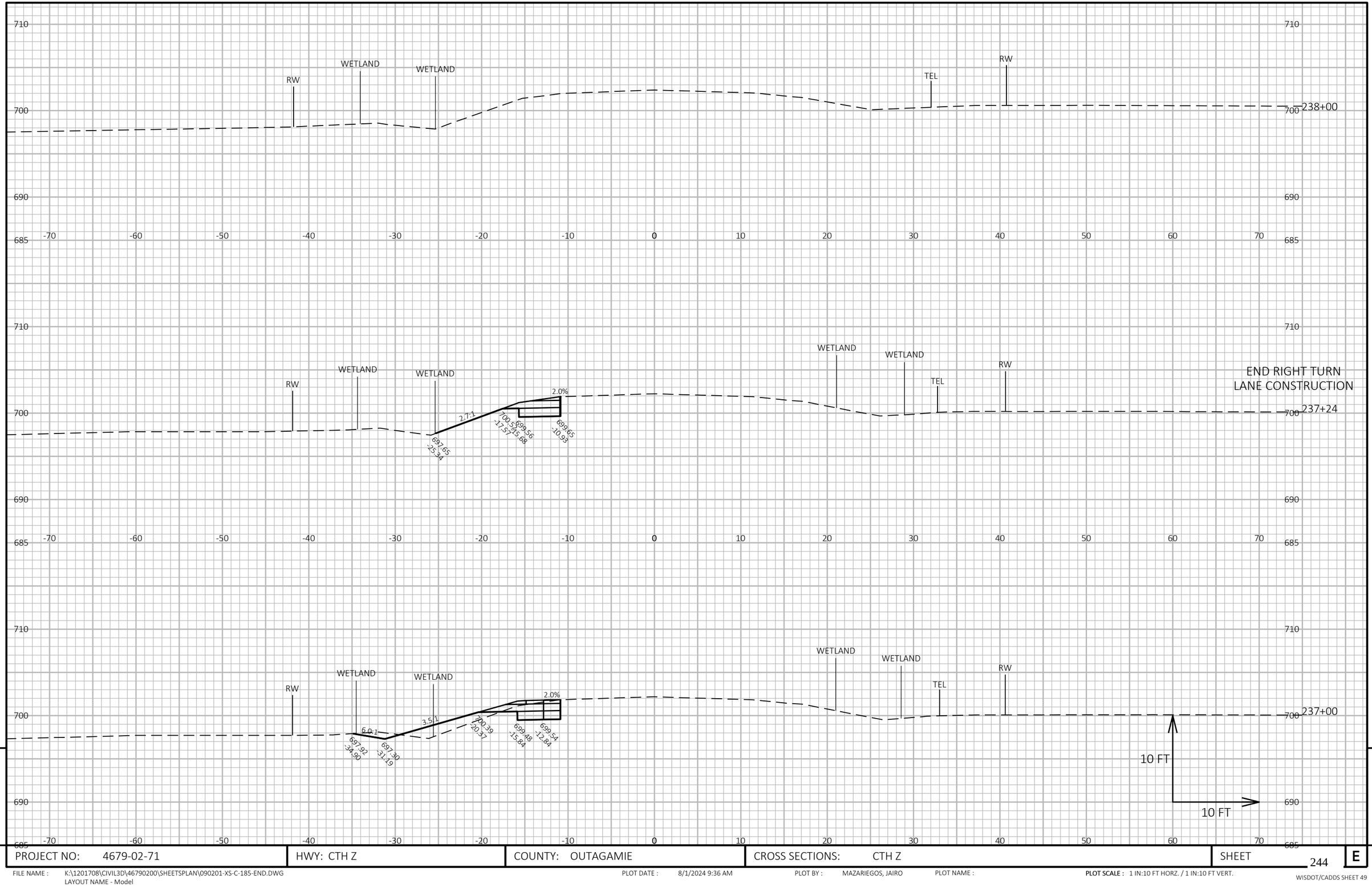
FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-C-185-END.DWG
LAYOUT NAME - Model

PLOT DATE : 8/1/2024 9:36 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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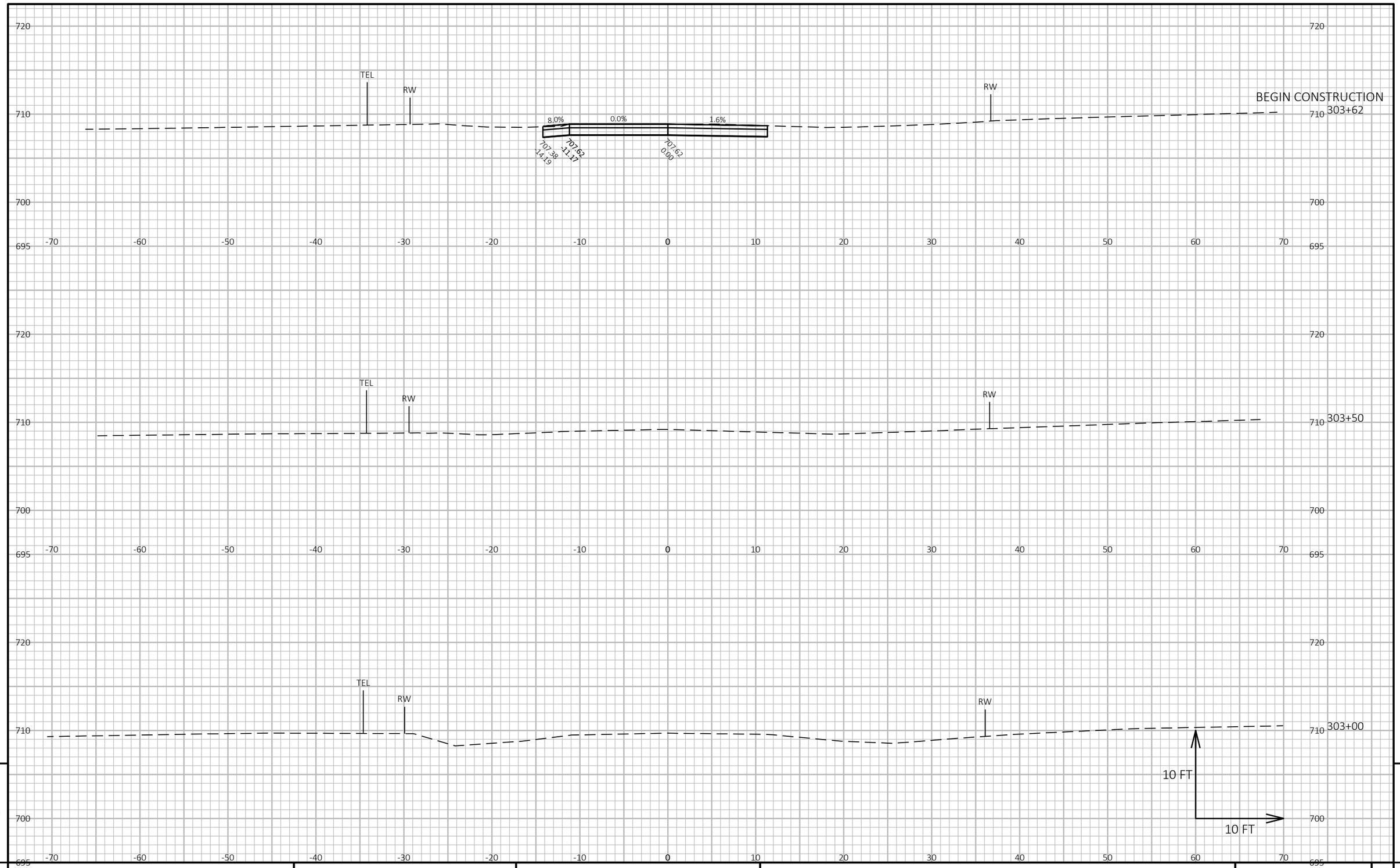
9

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH Z	SHEET 244	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-C-185-END.DWG
LAYOUT NAME - Model

PLOT DATE : 8/1/2024 9:36 AM PLOT BY : MAZARIEGOS, JAIRO PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: KAVANAUGH ROAD	SHEET 245	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-A-START-145.DWG
LAYOUT NAME - Model

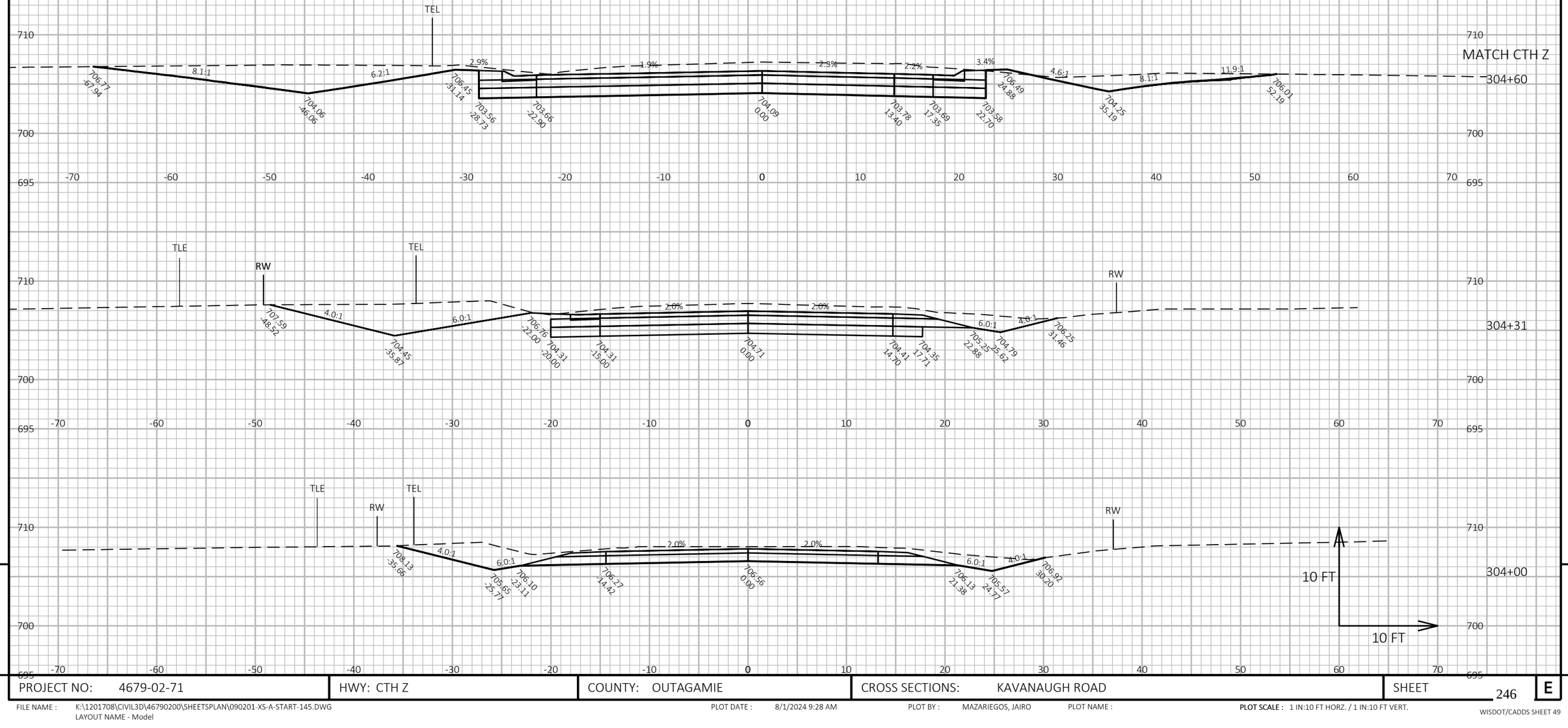
PLOT DATE : 8/1/2024 9:28 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: KAVANAUGH ROAD	SHEET 246	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-A-START-145.DWG
LAYOUT NAME - Model

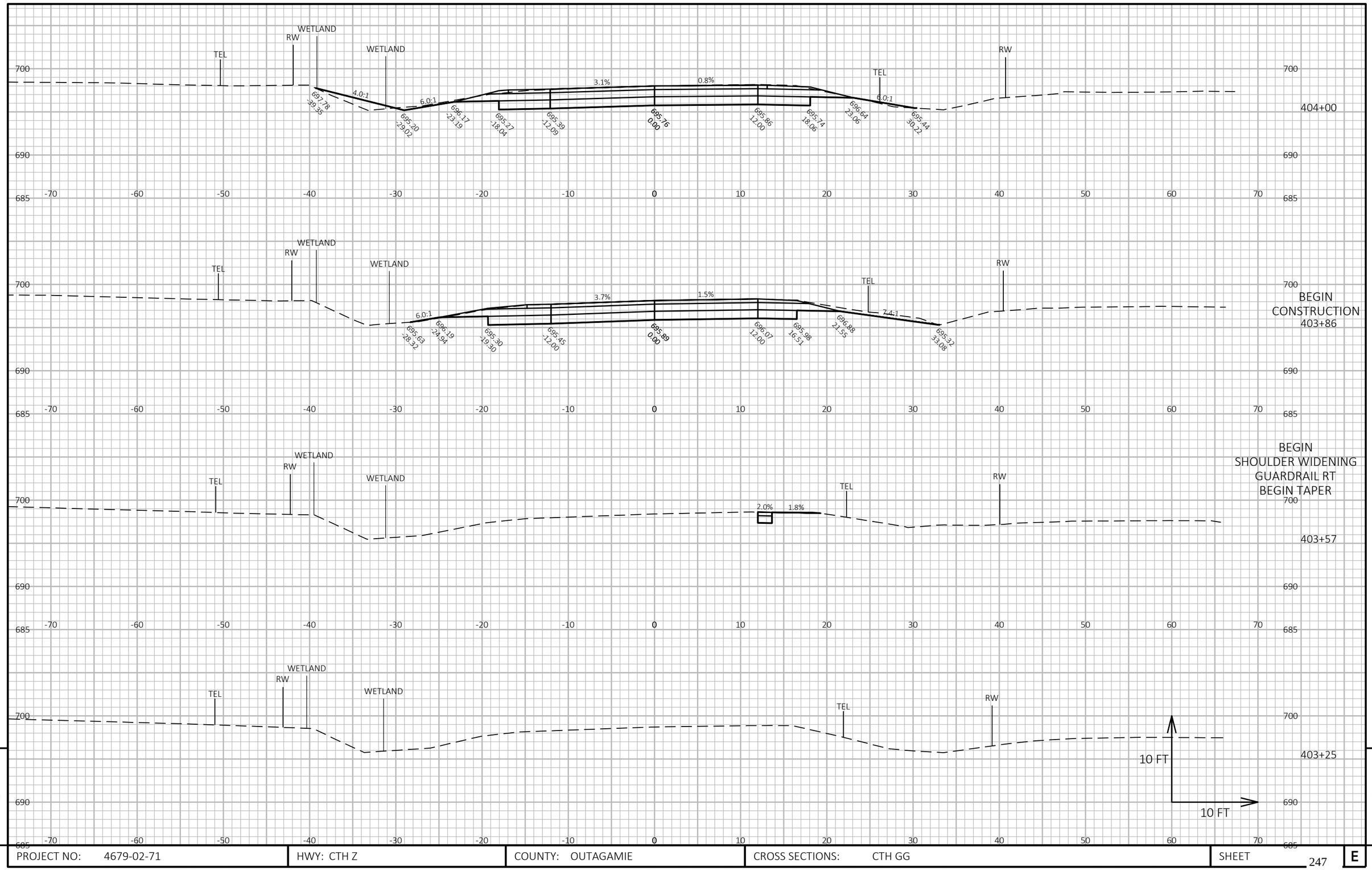
PLOT DATE : 8/1/2024 9:28 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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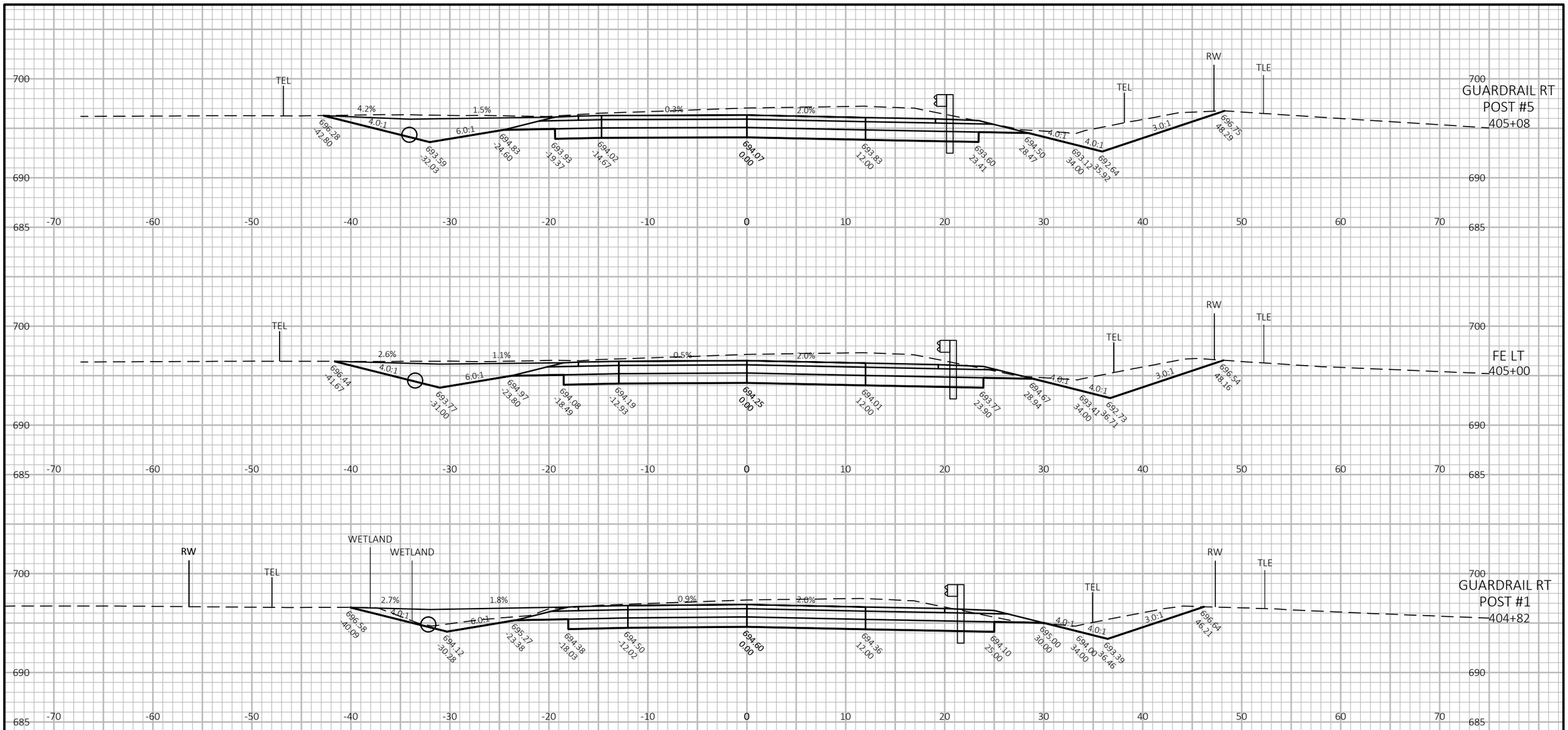
PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH GG	SHEET 247	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-B-145-185.DWG
LAYOUT NAME - Model
PLOT DATE : 8/1/2024 9:32 AM
PLOT BY : MAZARIEGOS, JAIRO
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH GG	SHEET 248	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-B-145-185.DWG
LAYOUT NAME - Model

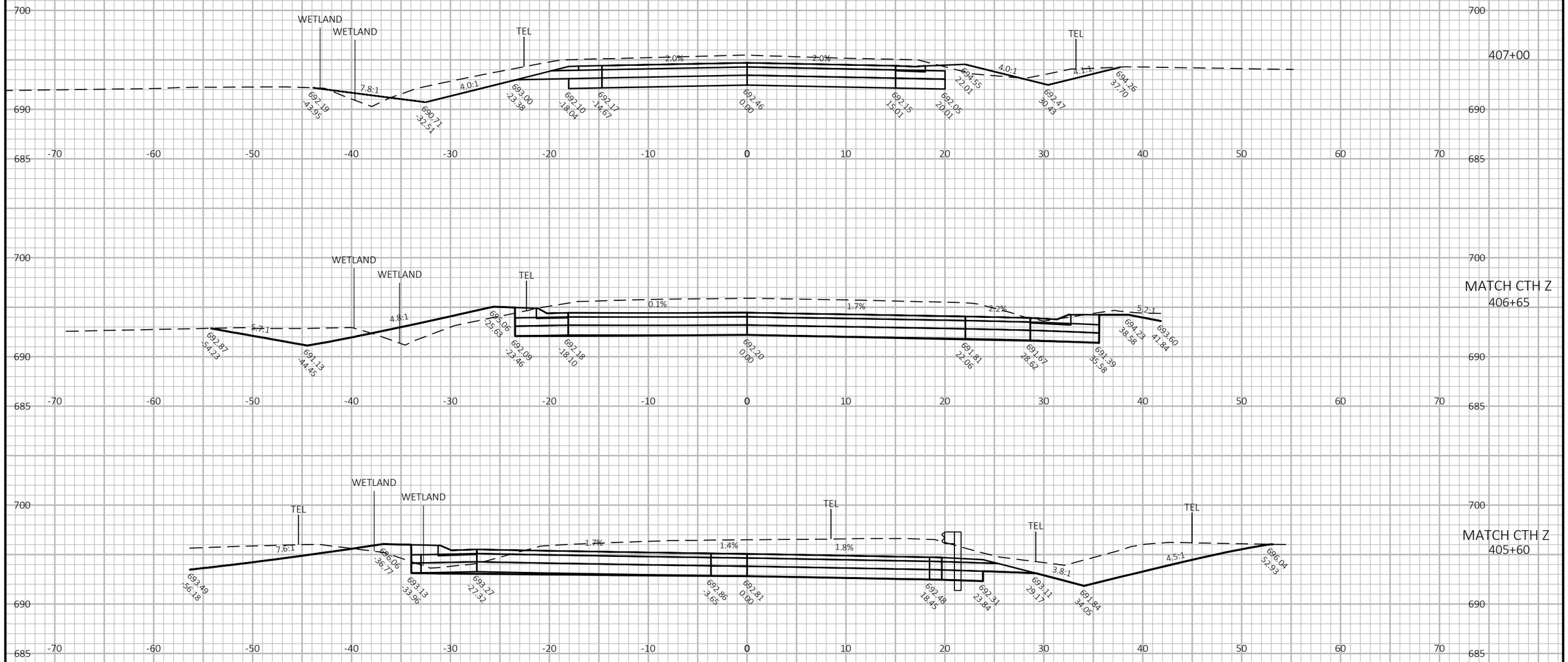
PLOT DATE : 8/1/2024 9:32 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH GG	SHEET 249	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-B-145-185.DWG
LAYOUT NAME - Model

PLOT DATE : 8/1/2024 9:32 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH GG	SHEET 250	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-B-145-185.DWG
LAYOUT NAME - Model

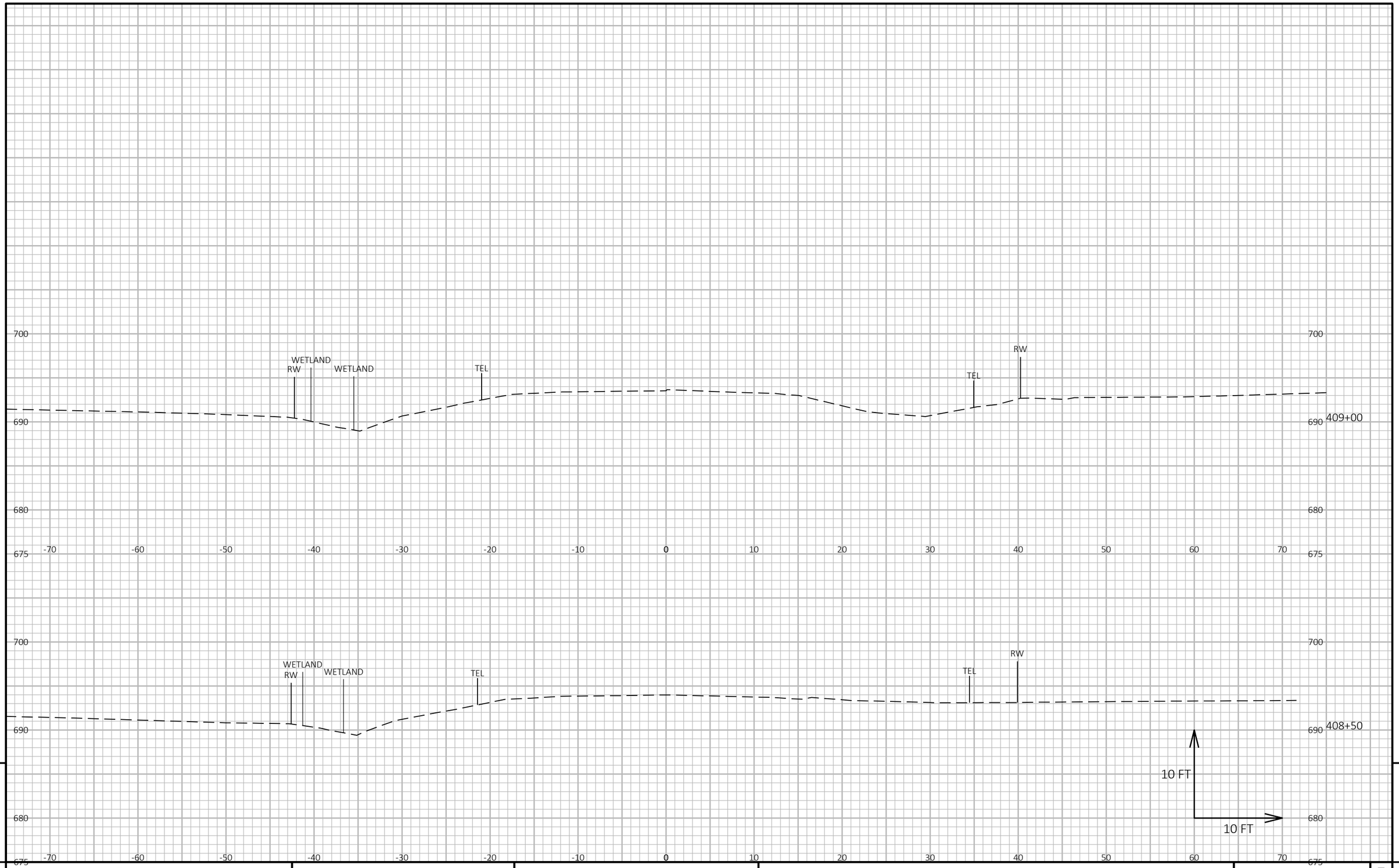
PLOT DATE : 8/1/2024 9:32 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CTH GG	SHEET 251	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-B-145-185.DWG
LAYOUT NAME - Model

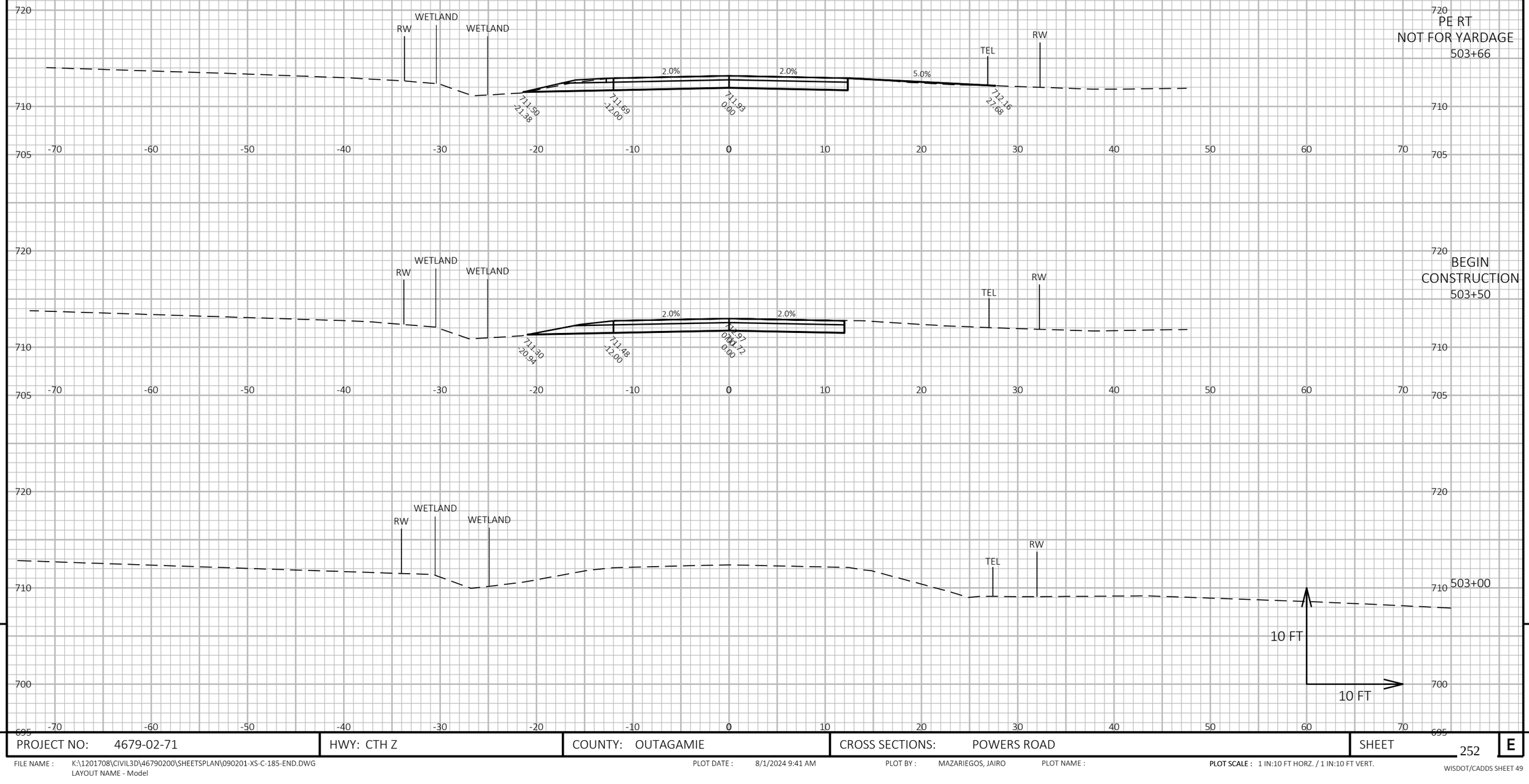
PLOT DATE : 8/1/2024 9:33 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: POWERS ROAD	SHEET 252	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-C-185-END.DWG
LAYOUT NAME - Model

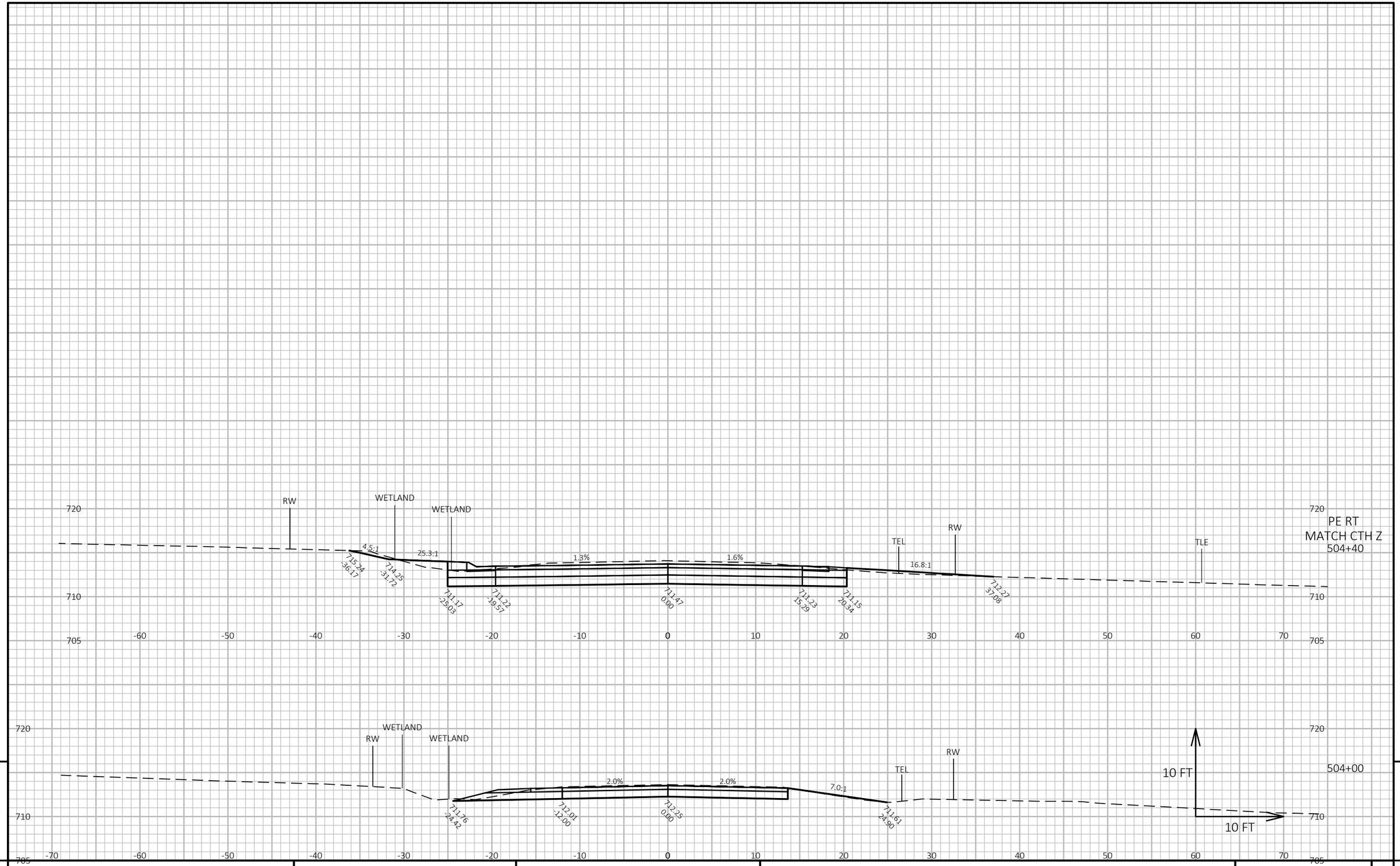
PLOT DATE : 8/1/2024 9:41 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: POWERS ROAD	SHEET 253	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-C-185-END.DWG
LAYOUT NAME - Model

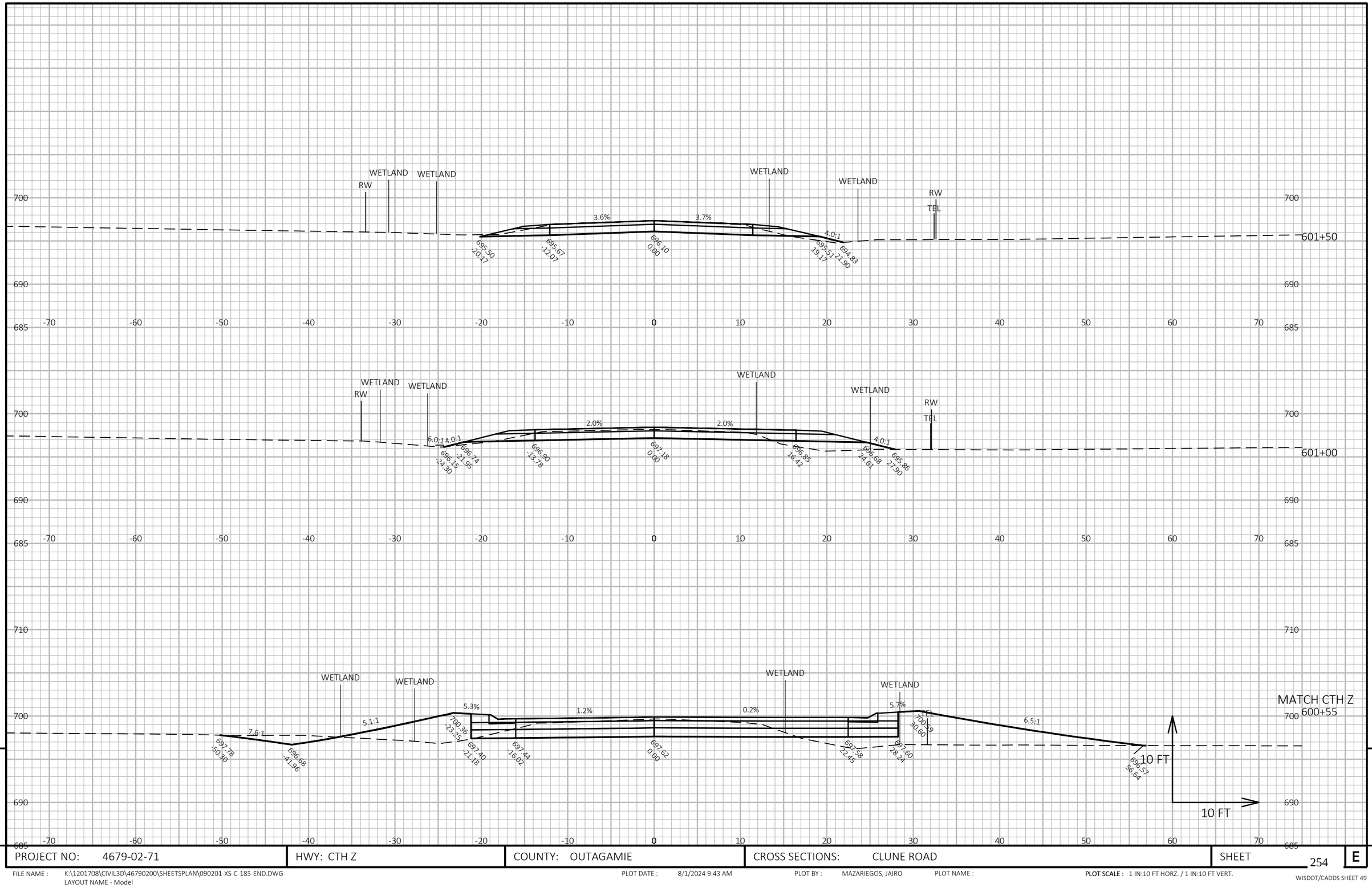
PLOT DATE : 8/1/2024 9:41 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CLUNE ROAD	SHEET 254	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-C-185-END.DWG
LAYOUT NAME - Model

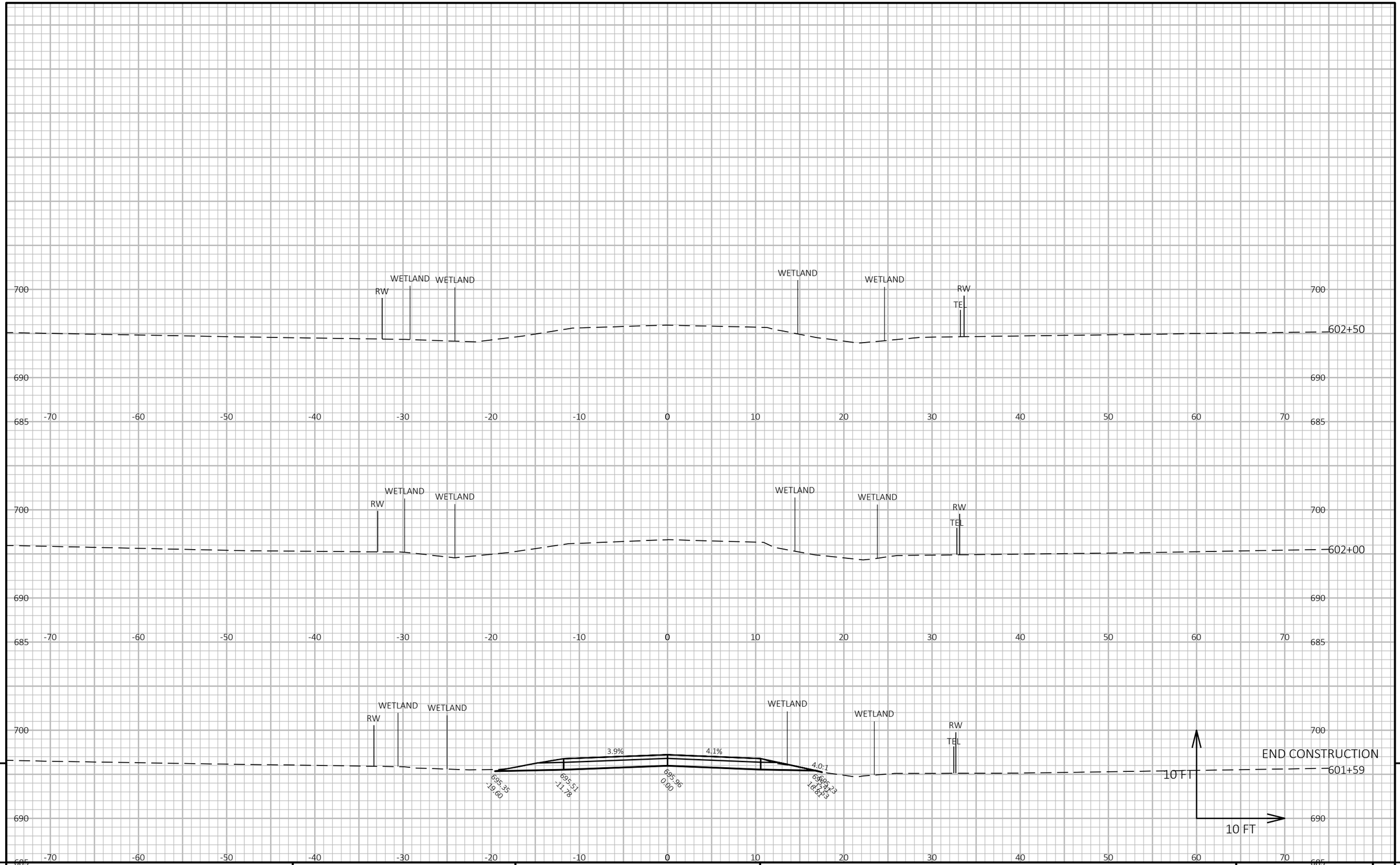
PLOT DATE : 8/1/2024 9:43 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: CLUNE ROAD	SHEET 255	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-C-185-END.DWG
LAYOUT NAME - Model

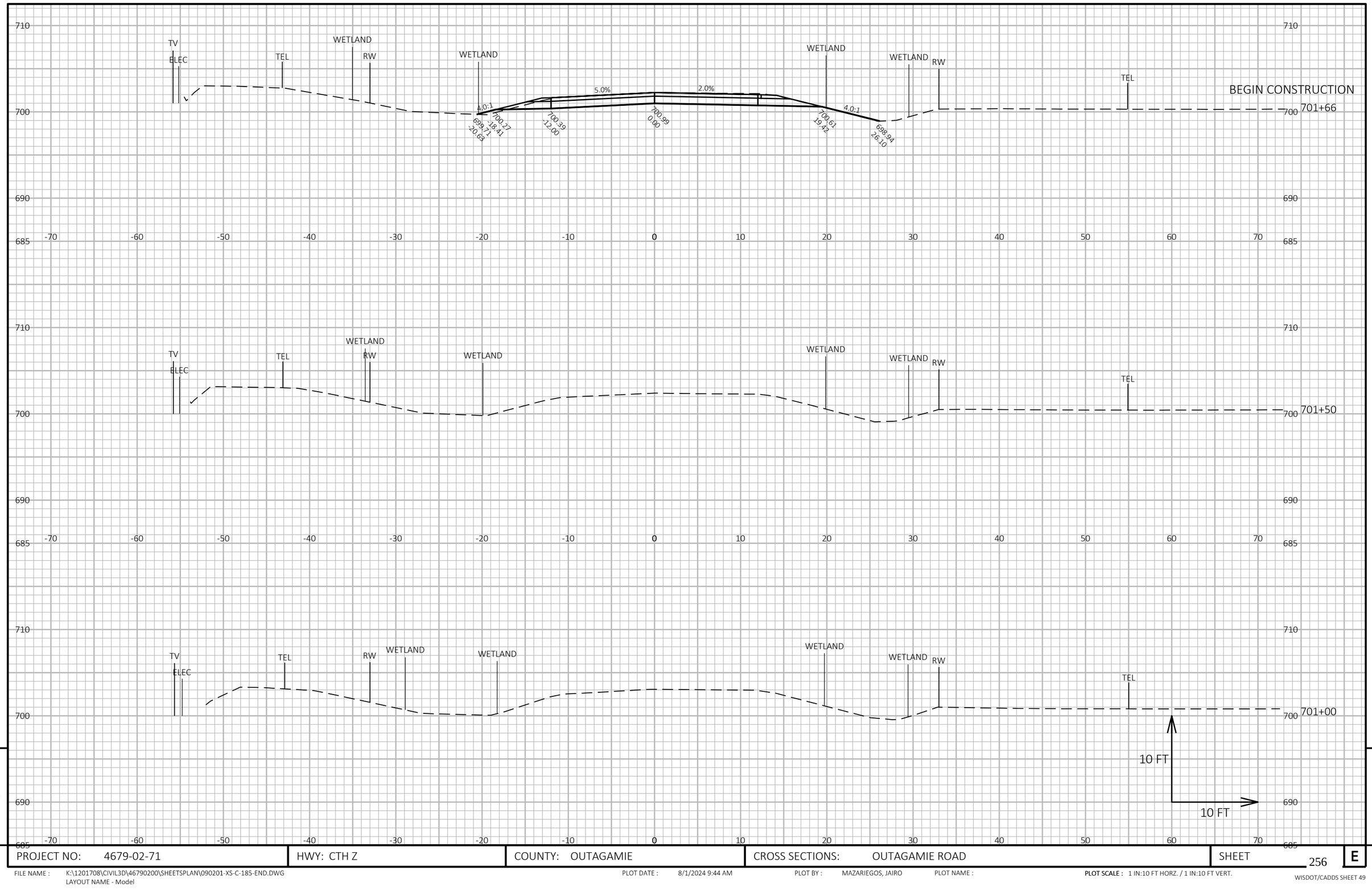
PLOT DATE : 8/1/2024 9:43 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: OUTAGAMIE ROAD	SHEET 256	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-C-185-END.DWG
LAYOUT NAME - Model

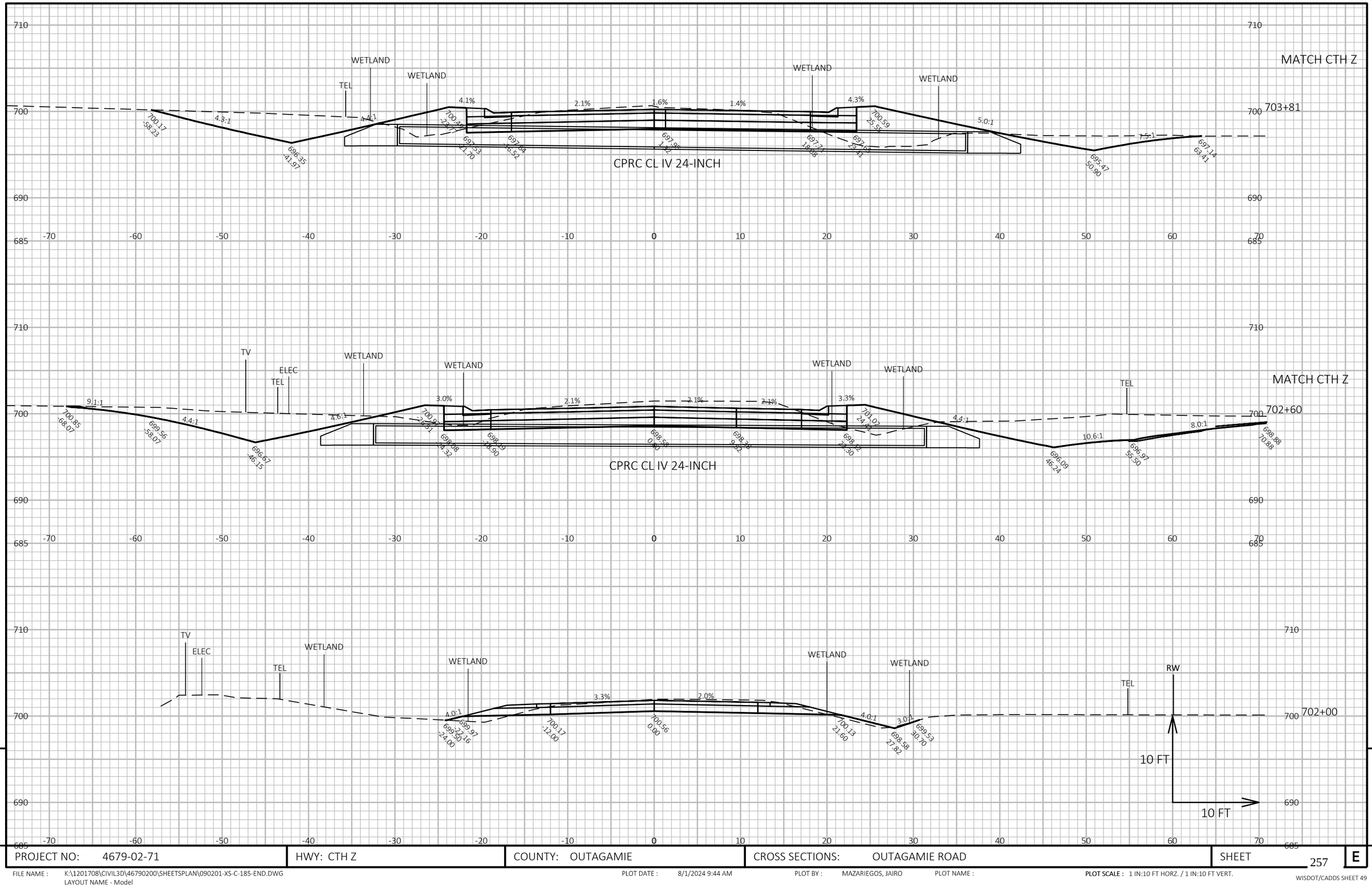
PLOT DATE : 8/1/2024 9:44 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: OUTAGAMIE ROAD	SHEET 257	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-C-185-END.DWG
LAYOUT NAME - Model

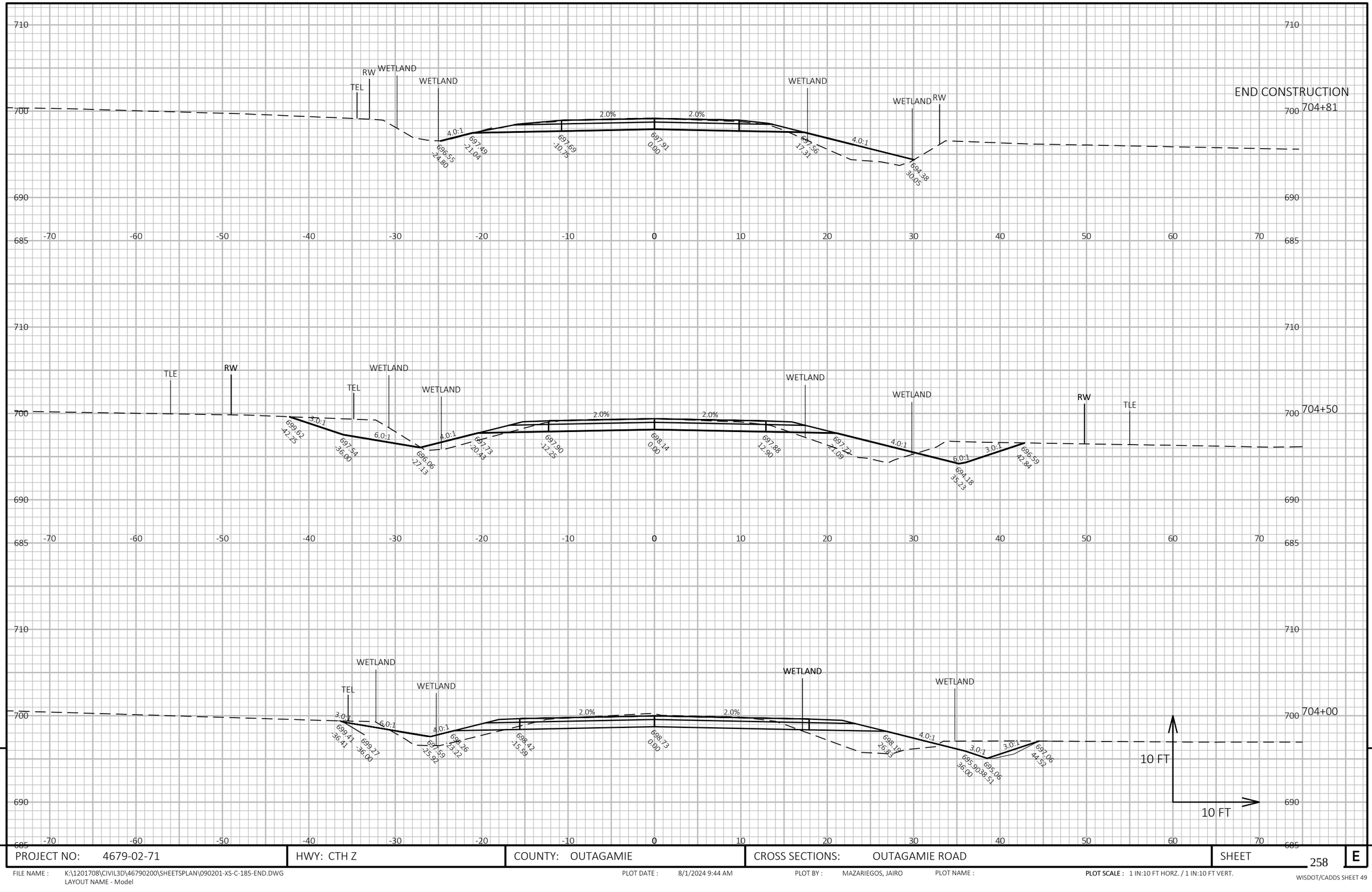
PLOT DATE : 8/1/2024 9:44 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: OUTAGAMIE ROAD	SHEET 258	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-C-185-END.DWG
LAYOUT NAME - Model

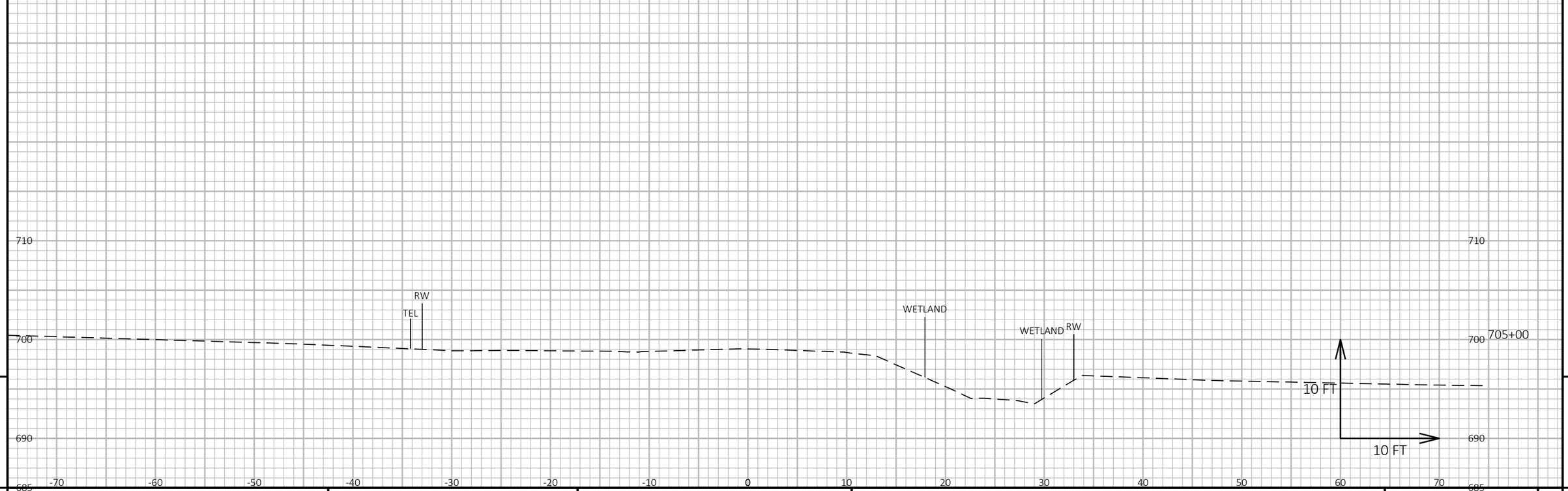
PLOT DATE : 8/1/2024 9:44 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 4679-02-71	HWY: CTH Z	COUNTY: OUTAGAMIE	CROSS SECTIONS: OUTAGAMIE ROAD	SHEET 259	E

FILE NAME : K:\1201708\CIVIL3D\46790200\SHEETSPLAN\090201-XS-C-185-END.DWG
LAYOUT NAME - Model

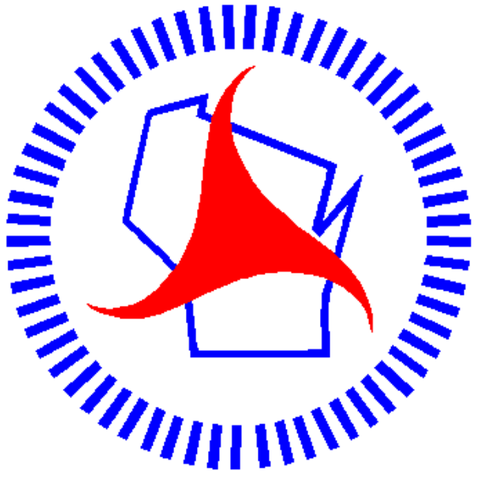
PLOT DATE : 8/1/2024 9:44 AM

PLOT BY : MAZARIEGOS, JAIRO

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



Wisconsin Department of Transportation

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