WIS

PROJECT ID: 6210-00-72

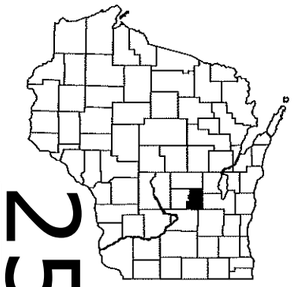
COUNTY: GREEN LAKE COUNTY

NOV 2018

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 =



25

N

DESIGN DESIGNATION

A.A.D.T.	2017	=	3800
A.A.D.T.	2037	=	4,700
D.H.V.	2037	=	504
D.D.		=	60/40
T.		=	17%
DESIGN SPEED		=	60 mph
ESALS		=	1,518,400

CONVENTIONAL SYMBOLS

PLAN

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

PROFILE

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

UTILITIES

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

RIPON - AURORAVILLE

STH 23 TO SOUTH STREET

STH 49

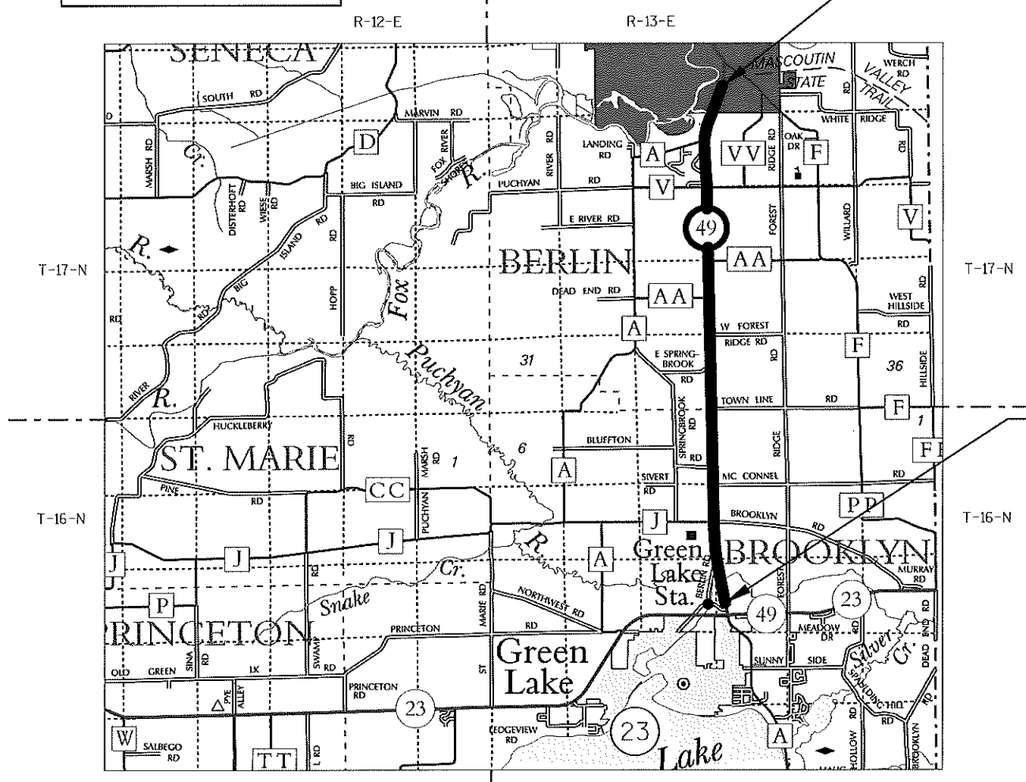
GREEN LAKE COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
6210-00-72	WISC 2018447	1

STATE PROJECT NUMBER
6210-00-72

END PROJECT
STA 415+13
Y=315955.1937
X=573992.1359

BEGIN PROJECT
STA 35+00
Y=278247.1595
X=573750.8485



LAYOUT
SCALE 0 0.75 MI.

TOTAL NET LENGTH OF CENTERLINE = MI 7.38

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, GREEN LAKE COUNTY, NAD 83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCE. GRID DISTANCE MAY BE USED AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED TO NAVD 88 (2012)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	NORTH CENTRAL REGION
Designer	GREG HELLNER
Project Manager	TIM HANLEY
Regional Examiner	CHERYL SIMON
Regional Supervisor	NICHOLE LYSNE
C.O. Examiner	

APPROVED FOR THE DEPARTMENT
DATE: 4-25-18 Timothy R Hanley (Signature)

E

GENERAL NOTES

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

CURVE DATA IS BASED ON THE ARC DEFINITION.

WHEN THE QUANTITY OF THE ITEMS OF BASE AGGREGATE, SUBBASE OR HMA PAVEMENT IS MEASURED FOR PAYMENT BY THE TON OR CUBIC YARD, THE DEPTH OR THICKNESS OF THE LAYERS SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

CONTRACTOR WILL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY HIS OPERATION OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS.

SECTIONS AS SHOWN ON THE CROSS SECTION SHEETS INCLUDE THE THICKNESS OF TOPSOIL

PURSUANT TO CHAPTER 59 OF THE WISCONSIN STATUTES, THE CONTRACTOR SHALL CAREFULLY MAKE A SEARCH FOR EVIDENCE OF A LANDMARK IN ALL AREAS WHERE SUCH A LANDMARK MAY EXIST.

THE CONTRACTOR IS TO WORK WITH UTMOST CARE AND PROTECT ALL SURVEY MARKERS. REMOVAL OF ANY SURVEY MARKER IS TO BE WITH THE APPROVAL OF THE ENGINEER.

UTILITIES

Electricity
GERALD RHODE
ATC Management, Inc.
801 O' Keefe Road
De Pere Wi 54115-6113
Phone 920-338-6523
Mobile:

Gas/Petroleum
DREW SUYDAM
Koch Pipeline Co. L.P.
N 4240 State Road 26
Waupun Wi 53963
Phone: 920-948-4665

Sewer & Water
MARK HESS
Badger Mining Corporation
409 S Church Street
Berlin Wi 54923
Phone: 920-361-2388

Communication Line
TIM KROEZE
CentryLink-Midwest-Kendall, LLC-Com Line
19 W FOND DU LAC Street
Ripon WI 54971
Phone: 920-748-8491
Mobile:: 920-219-0112

Electricity
STEVE CYCHOSZ AND COREY CLINCH
Alliant Energy
880 N Wisconsin Street
Berlin Wi 54923
Phone: 920-361-5662 Steve
Mobile: 920-290-4102

Phone: 920-361-5668 Corey
Mobile: 920-290-6356

Gas/Petroleum
STEVE CYCHOSZ AND COREY CLINCH
Alliant Energy
880 N Wisconsin Street
Berlin Wi 54923
Phone: 920-361-5662 Steve
Mobile: 920-290-4102

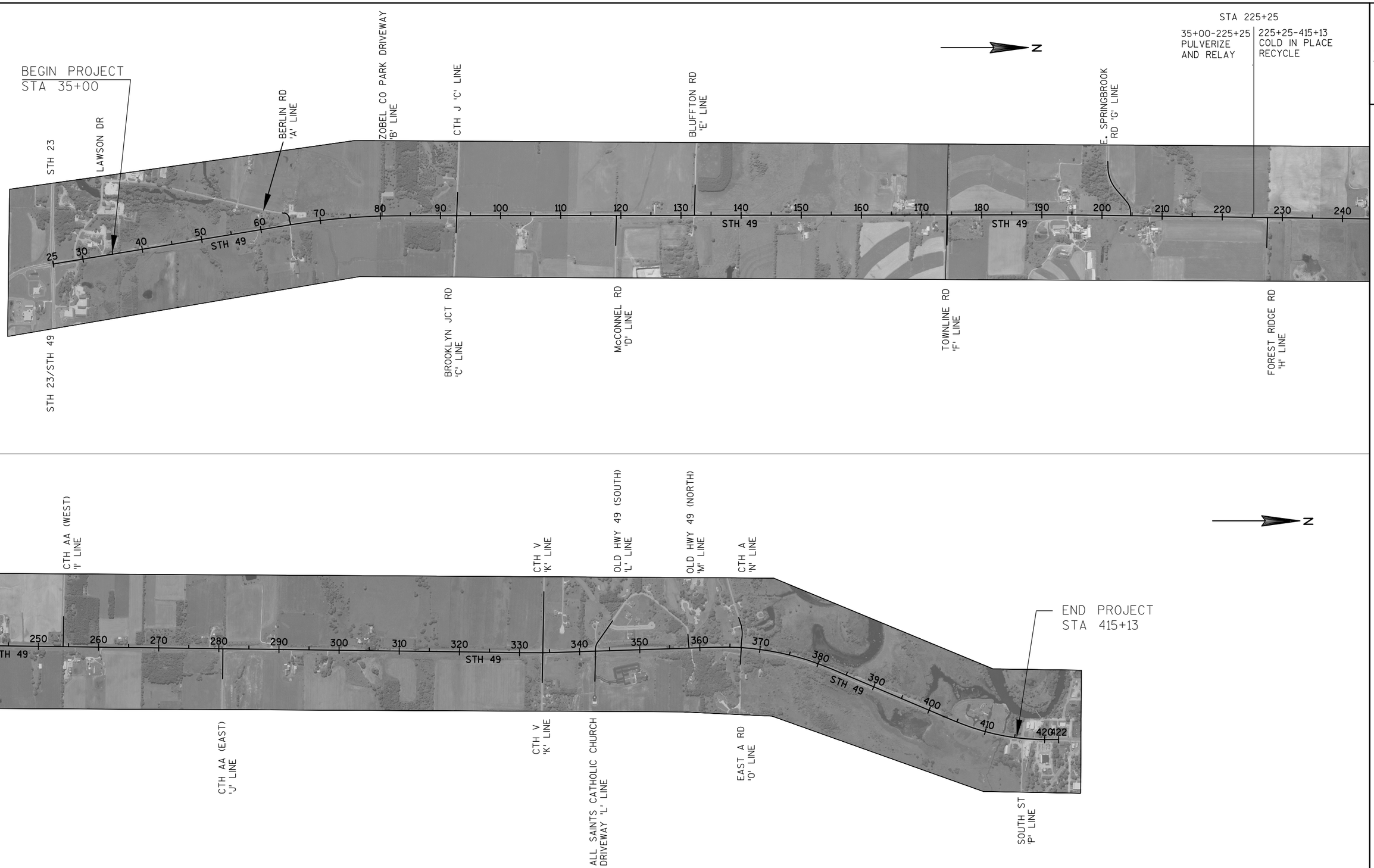
Phone: 920-361-5668 Corey
Mobile: 920-290-6356

Sewer & Water
BRIAN MALNORY
Berlin Mun Water & Sewer
108 N Capron Street
Berlin Wi 54923
Phone: 920 -361-5404
Mobile: 920- 229 6411

WDNR CONTACT

JAY SCHIEFELBEIN
Environmental Analyst & Review Specialist
Wisc. Dept. of Natural Resources
Green Bay Service Center
2984 Shawano Ave
Green Bay, WI 54313
Phone: (920) 360-3784

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



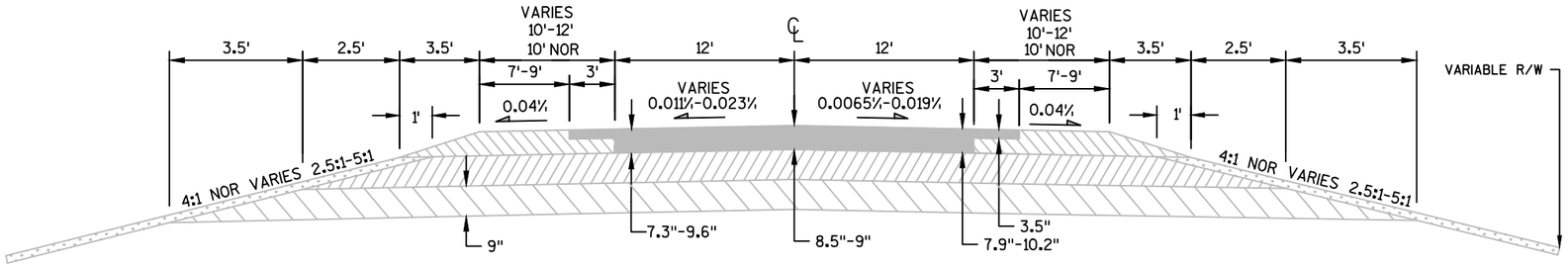
2

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PROJECT OVERVIEW	SHEET 3 E

Core #	Log Mile	Approx. Station Location	Location	S.B. Climbing Lane Depth (In.)	S.B. Drive Lane Depth (In.)	N.B. Drive Lane Depth (In.)	N.B. Climbing Lane Depth (In.)
24	7.32	411+50	RT 6'			10.000	
23	7.082	398+93	LT 6'		8.125		
22	6.783	383+14	RT 6'			9.250	
21A	6.502	368+31	LT 18'	9.250			
21	6.502	368+31	LT 6'		12.125		
20A	6.108	347+50	LT 18'	8.750			
20	6.108	347+50	LT 6'		10.375		
19	5.798	331+13	RT 6'			10.000	
18	5.487	314+71	LT 3'		10.000		
17	5.184	298+72	RT 6'			9.500	
16	4.881	282+72	LT 6'		7.875		
15	4.587	267+19	RT 4'			9.375	
14	4.258	249+82	LT 4'		8.875		
13	3.932	232+61	RT 6'			8.500	
12	3.565	213+23	LT 6'		8.250		
11	3.269	197+60	RT 12'			8.750	
10	2.984	182+55	LT 4'		8.000		
9	2.675	166+24	RT 6'			8.000	
8	2.378	150+56	LT 6'		8.500		
7	2.063	133+92	RT 4'			7.750	
6A	1.746	117+19	LT 18'	8.250			
6	1.746	117+19	LT 6'		8.000		
5A	1.537	106+15	LT 18'	7.750			
5	1.537	106+15	LT 6'		8.000		
4A	1.247	90+84	RT 18'				8.000
4	1.247	90+84	RT 9'			7.250	
3	1.062	81+07	RT 15'			7.250	
2	0.787	66+55	LT 6'		8.000		
1	0.151	32+97	RT 4'			8.000	

PAVEMENT CORE INFORMATION

CORE MEASUREMENTS START AT STA 25+00
MIDDLE OF INTERSECTION STH 23/STH 49
CORES TAKEN MAY 4, 2016



STH 49 EXISTING TYPICAL SECTION

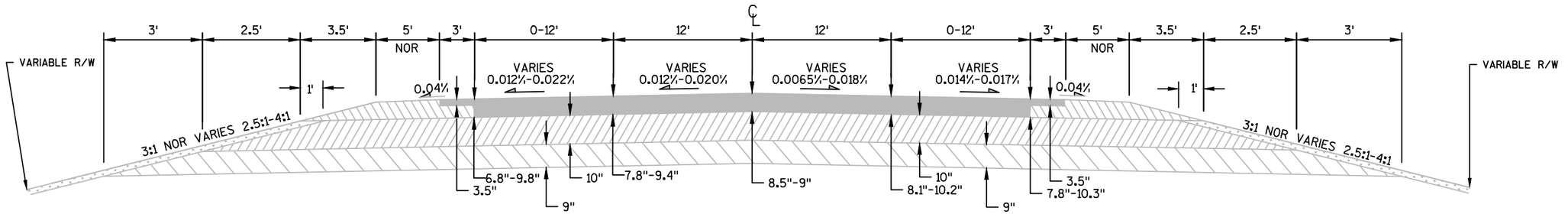
STA 35+00 LT - STA 64+80 LT
STA 83+46 LT - STA 84+50 LT
STA 126+32 LT - STA 190+77 LT
STA 195+71 LT - STA 327+30 LT
STA 382+32 LT - STA 404+83 LT

STA 35+00 RT - STA 64+80 RT
STA 111+30 RT - STA 190+77 RT
STA 195+71 RT - STA 331+00 RT
STA 336+27 RT - STA 339+05 RT
STA 341+90 RT - STA 358+60 RT
STA 382+32 RT - STA 404+83 RT

LEGEND

- HMA PAVEMENT
- EXISTING BASE AGGREGATE DENSE
- SAND - GRAVEL FILL
- TOPSOIL

NOTE : TOP OF EXISTING SUBGRADE HAS A 0.015% CROSS SLOPE

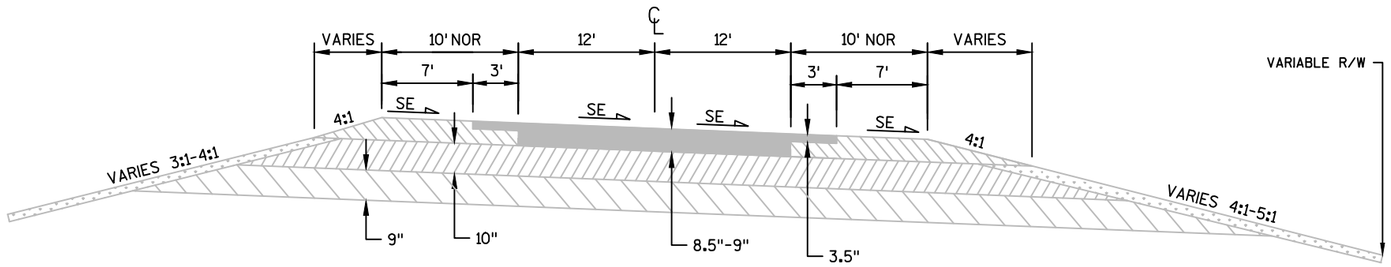


STH 49 EXISTING TYPICAL SECTION WITH TRUCK CLIMBING LANES

STA 84+50 LT - STA 126+32 LT
STA 327+30 LT - STA 331+00 LT
STA 336+27 LT - STA 362+50 LT

STA 83+46 RT - STA 111+30 RT
STA 339+05 RT - STA 341+90 RT
STA 358+60 RT - STA 362+50 RT

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	TYPICAL SECTIONS EXISTING	SHEET 5	E



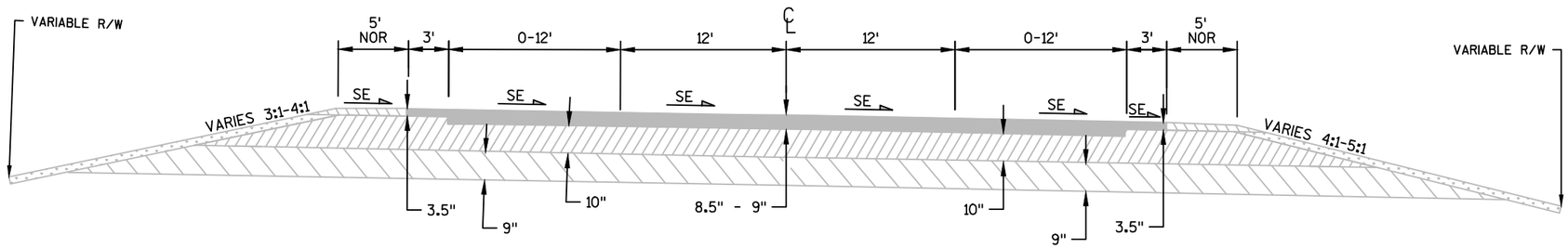
STH 49 EXISTING SUPER-ELEVATED TYPICAL SECTION

STA 64+80 LT - STA 65+69 LT SE=2.0%
STA 68+25 LT - STA 83+46 LT SE=2.0%
STA 190+77 LT - STA 195+71 LT SE=NC
STA 372+04 LT - STA 382+32 LT SE=3.2%
STA 404+83 LT - STA 415+13 LT SE=3.7%

STA 64+80 RT - STA 79+25 RT SE=2.0%
STA 190+77 RT - STA 195+71 RT SE=NC
STA 331+00 RT - STA 336+27 RT SE=2.0%
STA 371+12 RT - STA 382+32 RT SE=3.2%
STA 404+83 RT - STA 415+13 RT SE=3.7%

LEGEND

- HMA PAVEMENT
- EXISTING BASE AGGREGATE DENSE
- SAND - GRAVEL FILL
- TOPSOIL

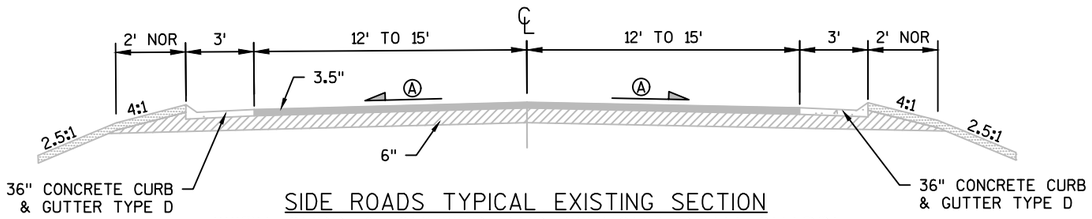


STH 49 EXISTING SUPER-ELEVATED TYPICAL SECTION WITH TRUCK CLIMBING LANES

STA 65+69 LT - STA 68+25 LT SE=2.0%
STA 362+50 LT - STA 372+04 LT SE=3.2%

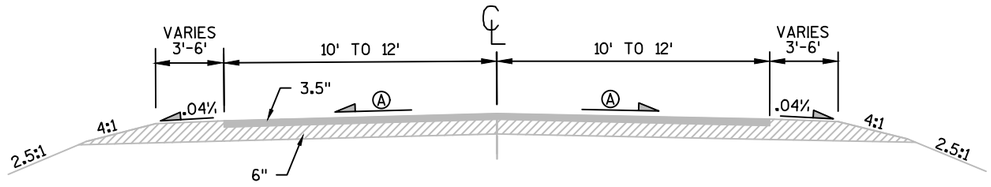
STA 79+25 RT - STA 83+46 RT SE=2.0%
STA 362+50 RT - STA 371+12 RT SE=3.2%

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	TYPICAL SECTIONS EXISTING	SHEET 6	E



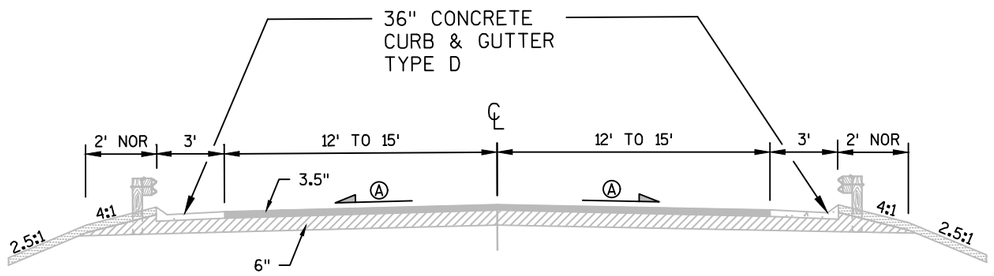
SIDE ROADS TYPICAL EXISTING SECTION
(WITH CURB & GUTTER AND WITHOUT BEAM GUARD)

BERLIN RD
ZOBEL PARK ENTRANCE
CTH J
BROOKLYN RD
McCONNEL RD
TOWNLINE RD
FOREST RIDGE RD
CTH AA (WEST)
CTH AA (EAST)
ALL SAINTS CHURCH ENTRANCE



SIDE ROADS TYPICAL EXISTING SECTION
(WITHOUT CURB & GUTTER AND WITHOUT BEAM GUARD)

BLUFFTON RD
OLD HWY 49 RD (SOUTH)
OLD HWY 49 RD (NORTH)
EAST A RD



SIDE ROADS TYPICAL EXISTING SECTION
(WITH CURB & GUTTER AND WITH BEAM GUARD)

SPRINGBROOK RD
CTH V (WEST)
CTH V (EAST)
CTH A

NOTES :

Ⓐ 0.02 NORMAL, VARIES.

ASPHALTIC CONCRETE PAVEMENT

CRUSHED AGGREGATE BASE COURSE

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	TYPICAL SECTIONS EXISTING	SHEET 7	E

LEGEND

4" HMA
(2.5" LOWER LAYER 3 MT 58-28 S
1.5" UPPER LAYER 5 MT 58-28 S)

6" PULVERIZE AND RELAY EXISTING SURFACE (P&R)
(PULVERIZE A MINIMUM 2" INTO EXISTING BASE COURSE LAYER)

REUSE AND PLACE SALVAGED BASE AGGREGATE DENSE MATERIAL,
DO NOT WASTE MATERIAL DOWN FORE SLOPE.
REMOVE EXCESS MATERIAL PAID UNDER PREPARE FOUNDATION FOR
ASPHALTIC SHOULDERS BID ITEM.

EXISTING HMA PAVEMENT

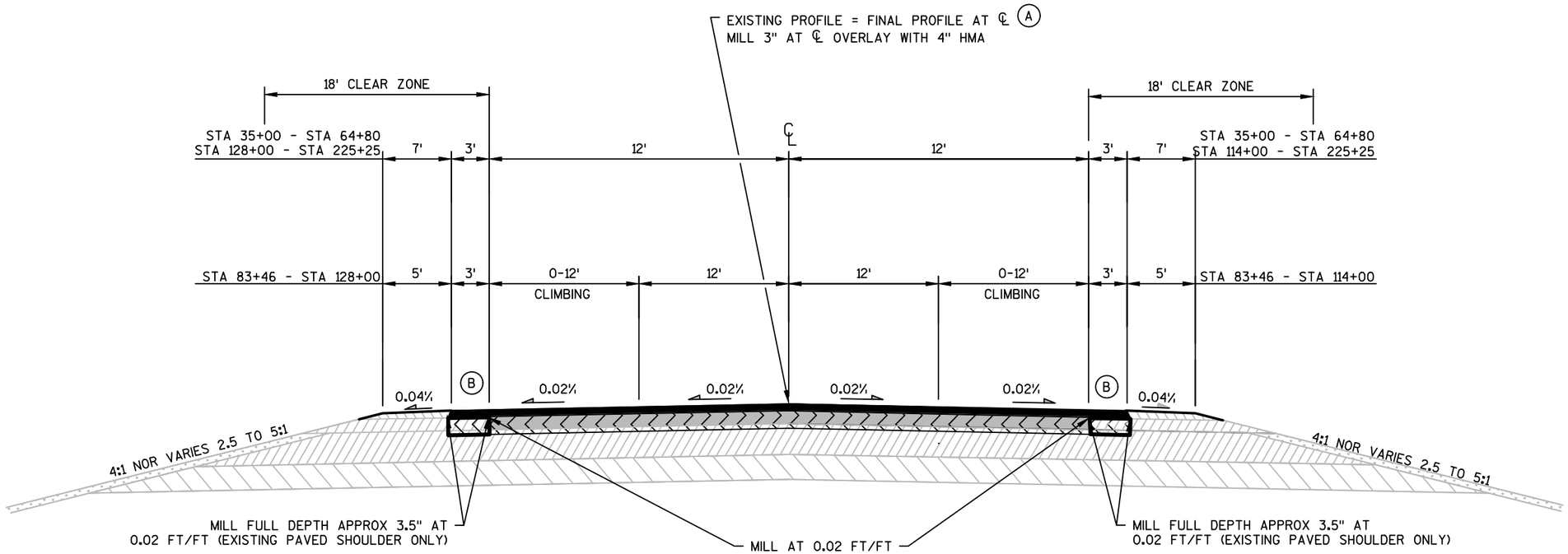
EXISTING BASE AGGREGATE DENSE

EXISTING SAND-GRAVEL FILL

EXISTING TOPSOIL

(A) EXCEPTION: WHERE PROPOSED MAINLINE PROFILE
IS ADJUSTED THROUGH SELECTED INTERSECTIONS.
SEE INTERSECTION DETAIL FOR GRADES.

(B) PREP EXISTING SHOULDER FOR RELAY MATERIAL AFTER MILLING.
PULVERIZE MAINLINE AND CLIMBING LANE PAVEMENT.
RELAY PULVERIZED MATERIAL TO NEW PAVED SHOULDER WIDTH.
DO NOT WASTE MATERIAL DOWN FORE SLOPE.
PAID UNDER PREPARING FOUNDATION FOR ASPHALTIC SHOULDERS BID ITEM.



STH 49 PROPOSED TYPICAL SECTION

STA 35+00 - 64+80
STA 83+46 - 225+25

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	TYPICAL SECTIONS (PULVERIZE & RELAY)	SHEET 8	E

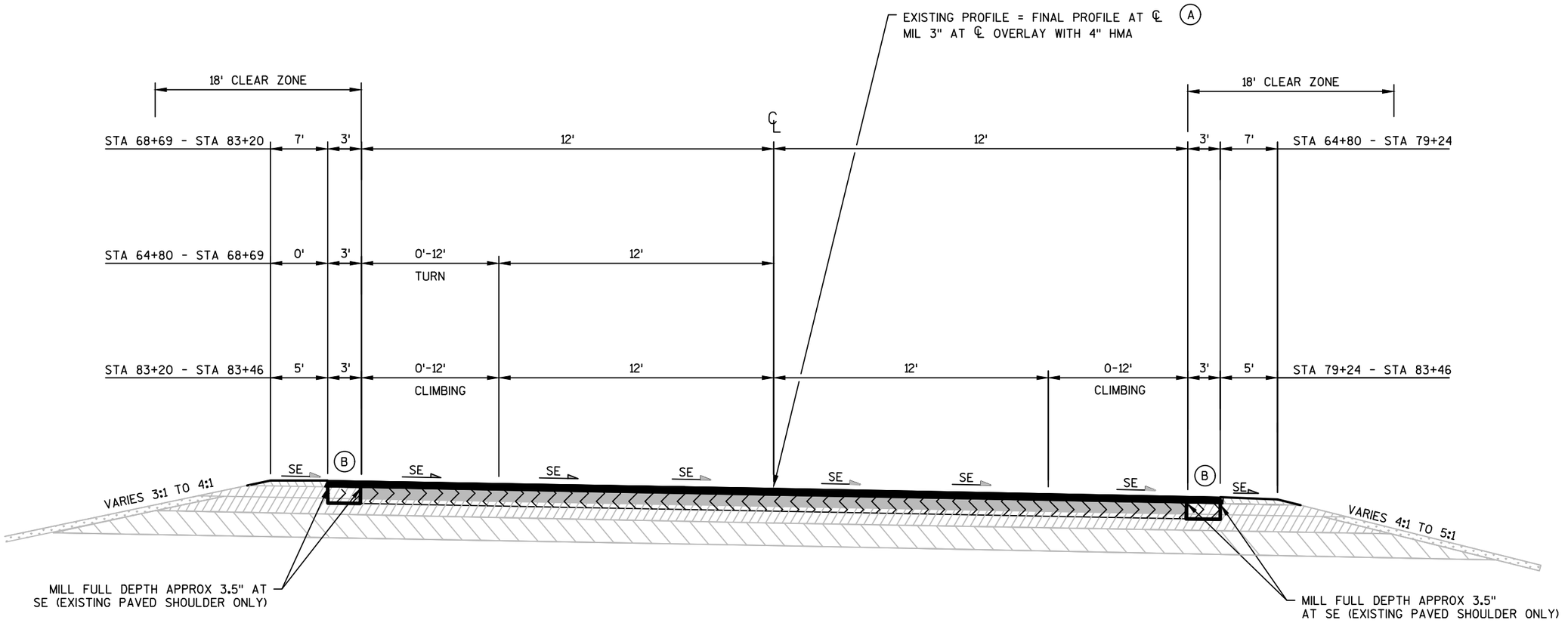
LEGEND

- 4" HMA TYPE MT 58-28 S
  (2.5" LOWER LAYER 3 MT 58-28 S
  1.5" UPPER LAYER 5 MT 58-28 S)
- 6" PULVERIZE AND RELAY EXISTING SURFACE (P&R)
  PULVERIZE A MINIMUM 2" INTO BASE COURSE LAYER
- REUSE AND PLACE SALVAGED BASE AGGREGATE DENSE MATERIAL, DO NOT WASTE MATERIAL DOWN FORE SLOPE. REMOVE EXCESS MATERIAL PAID UNDER PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS BID ITEM.

- EXISTING HMA PAVEMENT
- EXISTING BASE AGGREGATE DENSE
- EXISTING SAND-GRAVEL FILL
- EXISTING TOPSOIL

(A) EXCEPTION: WHERE PROPOSED MAINLINE PROFILE IS ADJUSTED THROUGH SELECTED INTERSECTIONS. SEE INTERSECTION DETAIL FOR GRADES.

(B) PREP EXISTING SHOULDER FOR RELAY MATERIAL AFTER MILLING. PULVERIZE MAINLINE AND CLIMBING LANE PAVEMENT. RELAY PULVERIZED MATERIAL TO NEW PAVED SHOULDER WIDTH. DO NOT WASTE MATERIAL DOWN FORE SLOPE. PAID UNDER PREPARING FOUNDATION FOR ASPHALTIC SHOULDERS BID ITEM.



STH 49 PROPOSED SUPER-ELEVATED TYPICAL SECTION

STA 64+80 - STA 83+46 SE

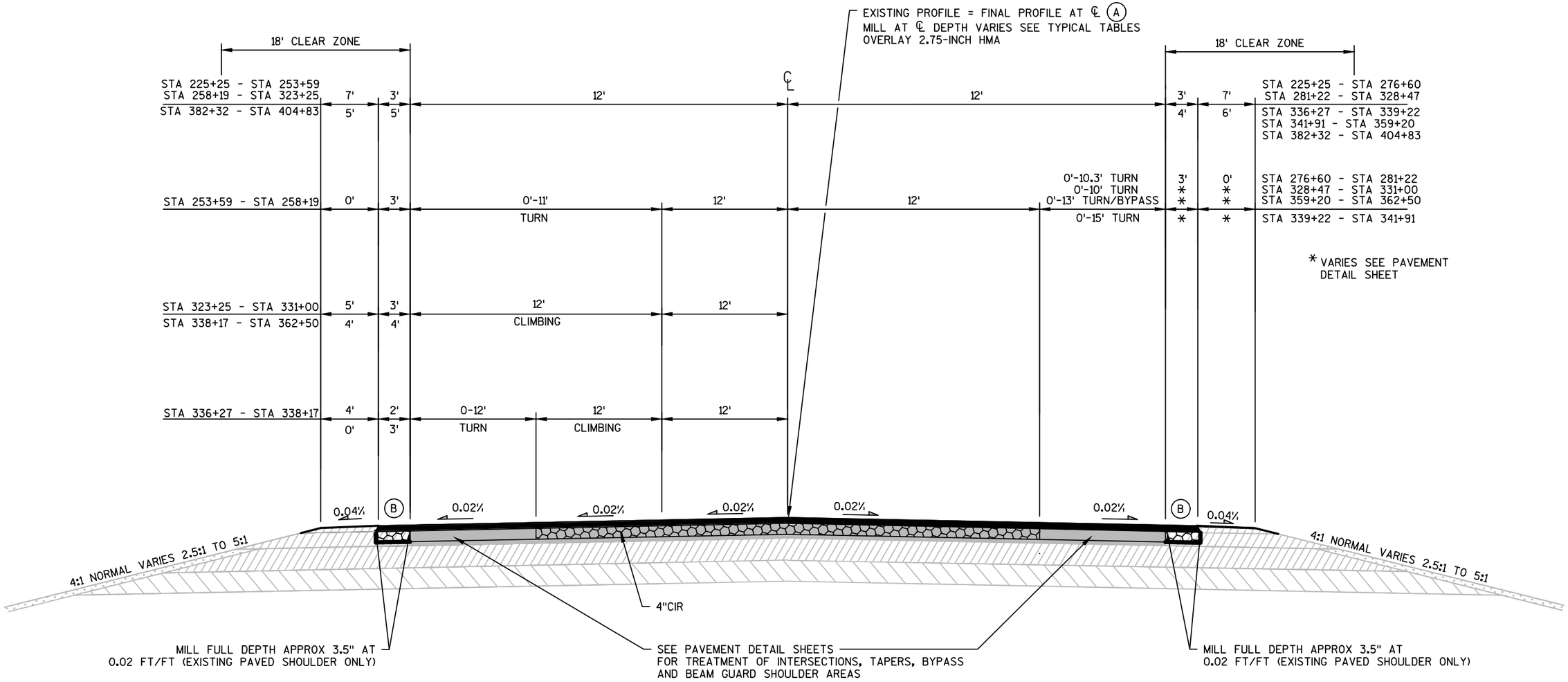
PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	TYPICAL SECTIONS (PULVERIZE & RELAY)	SHEET 9	E

LEGEND

- 2.75-INCH HMA TYPE MT 58-28 S
  (1.25-INCH LOWER LAYER 5 MT 58-28 S
  1.50-INCH UPPER LAYER 5 MT 58-28 S)
- 4-INCH
  COLD IN PLACE RECYCLING (CIR) PAVEMENT PARTIAL DEPTH
  (AFTER) REMOVING ASPHALTIC SURFACE MILLING
- REUSE AND PLACE SALVAGED BASE AGGREGATE DENSE MATERIAL,
  DO NOT WASTE MATERIAL DOWN FORE SLOPE.
  PAID UNDER PREPARE FOUNDATION FOR ASPHALTIC
  SHOULDERS BID ITEM.
- EXISTING HMA PAVEMENT
- EXISTING BASE AGGREGATE DENSE
- EXISTING SAND-GRAVEL FILL
- EXISTING TOPSOIL

(A) EXCEPTION: WHERE PROPOSED MAINLINE PROFILE
IS ADJUSTED THROUGH SELECTED INTERSECTIONS.
SEE INTERSECTION DETAIL FOR GRADES.

(B) PREPARE EXISTING SHOULDER FOR CIR AFTER MILLING.
PLACE CIR TO WIDTH OF NEW PAVED SHOULDER
EXCEPT AT TURN LANE, BYPASS AND TAPERS.
DO NOT WASTE MATERIAL DOWN FORE SLOPE.
PAID FOR UNDER PREPARE FOUNDATION FOR ASPHALTIC
SHOULDERS BID ITEM.



STH 49 PROPOSED TYPICAL SECTION COLD IN PLACE RECYCLE

STA 225+25 - STA 331+00
STA 336+27 - STA 362+50
STA 382+32 - STA 404+83

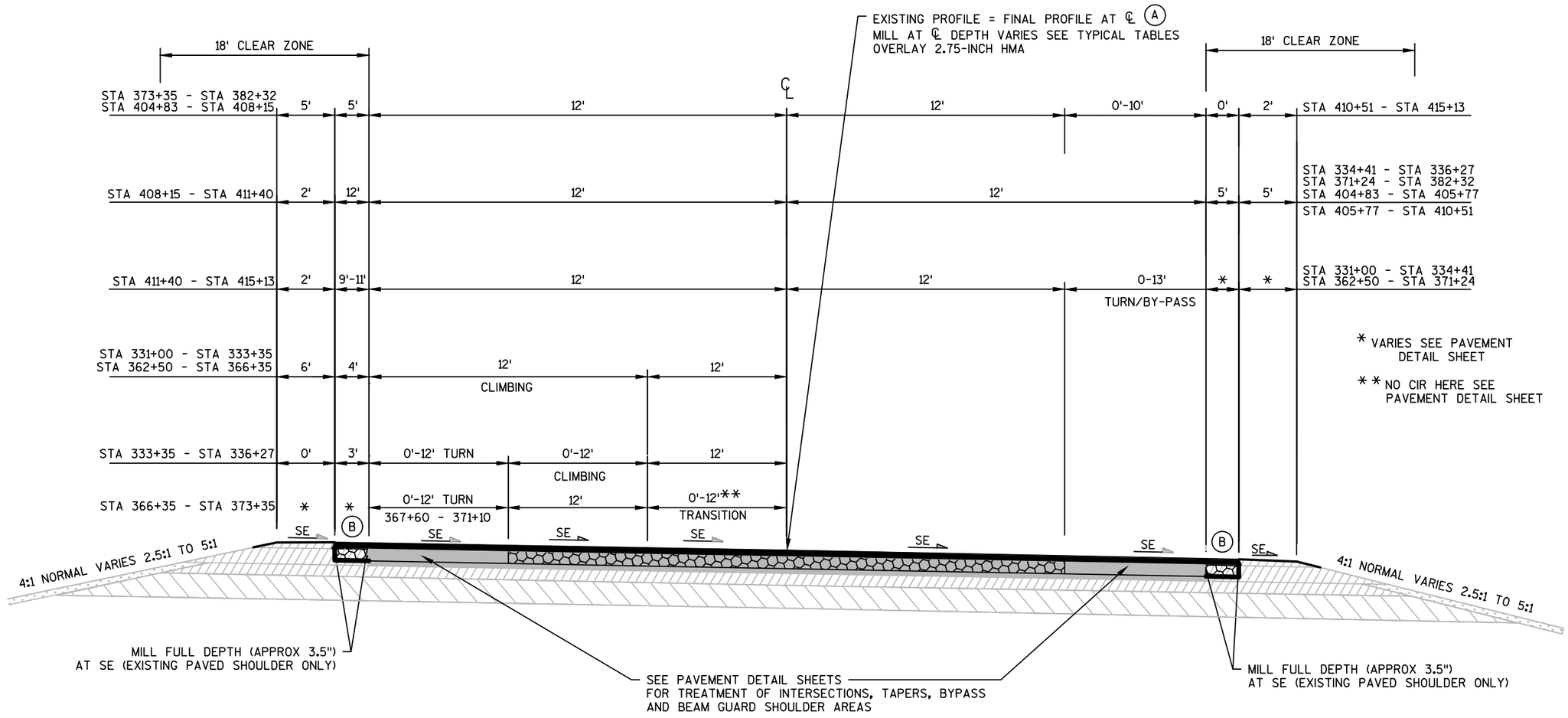
PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	TYPICAL SECTIONS (CIR)	SHEET 10	E

LEGEND

- 2.75-INCH HMA TYPE 5 MT 58-28 S
  (1.25-INCH LOWER LAYER 5 MT 58-28 S
  1.50" UPPER LAYER 5 MT 58-28 S)
- 4-INCH
  COLD IN PLACE RECYCLING (CIR) PAVEMENT PARTIAL DEPTH
  (AFTER) REMOVING ASPHALTIC SURFACE MILLING)
- REUSE AND PLACE SALVAGED BASE AGGREGATE DENSE MATERIAL,
  DO NOT WASTE MATERIAL DOWN FORE SLOPE.
  PAID UNDER PREPARE FOUNDATION FOR ASPHALTIC
  SHOULDERS BID ITEM.
- EXISTING HMA PAVEMENT
- EXISTING BASE AGGREGATE DENSE
- EXISTING SAND-GRAVEL FILL
- EXISTING TOPSOIL

(A) EXCEPTION: WHERE PROPOSED MAINLINE PROFILE
IS ADJUSTED THROUGH SELECTED INTERSECTIONS.
SEE INTERSECTION DETAIL FOR GRADES.

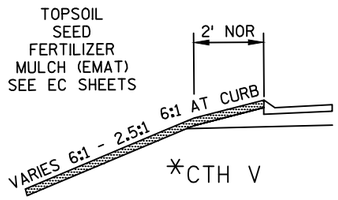
(B) PREPARE EXISTING SHOULDER FOR CIR AFTER MILLING.
PLACE CIR TO WIDTH OF NEW PAVED SHOULDER
EXCEPT AT TURN LANE, BYPASS AND TAPERS.
DO NOT WASTE MATERIAL DOWN FORE SLOPE.
PAID FOR UNDER PREPARE FOUNDATION FOR
ASPHALTIC SHOULDERS BID ITEM.

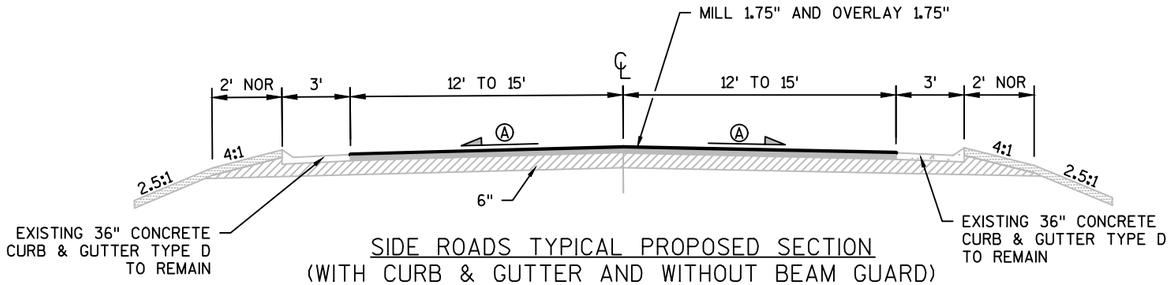


STH 49 PROPOSED SUPER-ELEVATED TYPICAL COLD IN PLACE RECYCLE

STA 331+00 - STA 336+27 SE=0.02 FT/FT - LOW SIDE LEFT
STA 362+50 - STA 382+32 SE=0.032 FT/FT - LOW SIDE RIGHT
STA 404+83 - STA 415+13 SE=0.037 FT/FT - LOW SIDE LEFT

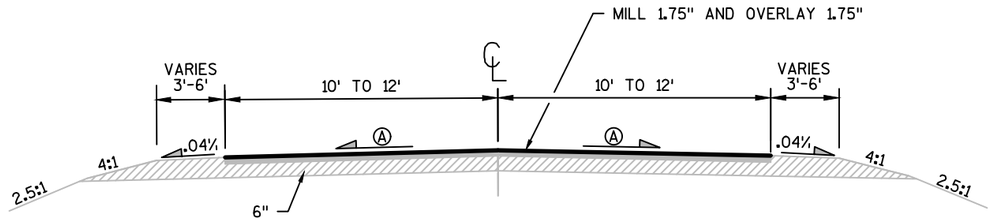
PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	TYPICAL SECTIONS (CIR)	SHEET 11	E





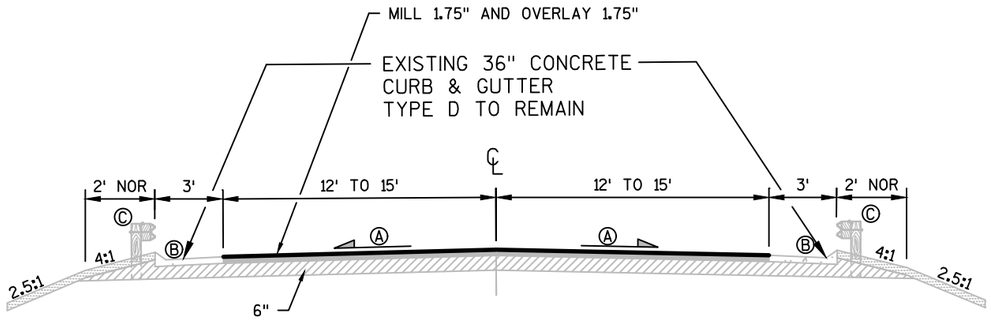
SIDE ROADS TYPICAL PROPOSED SECTION
(WITH CURB & GUTTER AND WITHOUT BEAM GUARD)

BERLIN RD
ZOBEL PARK ENTRANCE
CTH J
BROOKLYN RD
McCONNEL RD
TOWNLINE RD
FOREST RIDGE RD
CTH AA (WEST)
CTH AA (EAST)
✳CTH V (NE QUADRANT)
ALL SAINTS CHURCH ENTRANCE



SIDE ROADS TYPICAL PROPOSED SECTION
(WITHOUT CURB & GUTTER AND WITHOUT BEAM GUARD)

BLUFFTON RD
OLD HWY 49 RD (SOUTH)
OLD HWY 49 RD (NORTH)
EAST A RD



SIDE ROADS TYPICAL PROPOSED SECTION
(WITH CURB & GUTTER AND WITH BEAM GUARD)

SPRINGBROOK RD
CTH V (WEST, NEW CURB & GUTTER REQ'D NW QUADRANT)
CTH V (SE QUADRANT)
CTH A

NOTES :

Ⓐ 0.02 NORMAL, VARIES. SEE INTERSECTION DETAILS FOR FINISHED GRADES

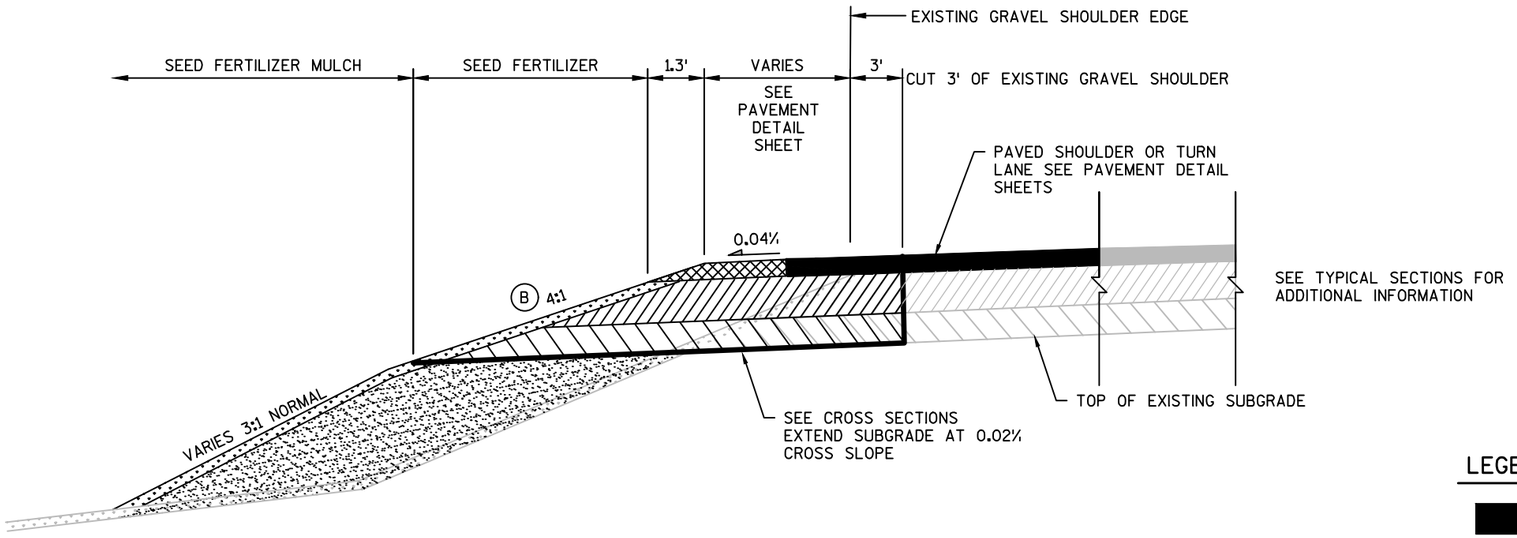
Ⓑ SEE CONSTRUCTION DETAIL REMOVING CURB HEAD

Ⓒ SEE GUARDRAIL DETAILS

EXISTING ASPHALTIC CONCRETE PAVEMENT

1.75" HMA PAVEMENT 5MT 58-28 S

EXISTING CRUSHED AGGREGATE BASE COURSE



STH 49 PROPOSED WIDENING FOR
PULVERIZE & RELAY (NO GUARDRAIL SHOWN)

LEFT	RIGHT
STA 40+36LT - STA 42+00LT	STA 40+00RT - STA 41+27RT
STA 44+15LT - STA 45+75LT	STA 43+33RT - STA 44+93RT
STA 46+83LT - STA 48+43LT	STA 46+94RT - STA 48+54RT
STA 50+12LT - STA 51+72LT	STA 50+22RT - STA 51+82RT
STA 138+73LT - STA 140+33LT	STA 137+94RT - STA 139+28RT
STA 141+00LT - STA 143+00LT	STA 141+21RT - STA 142+81RT
STA 196+50LT - STA 197+22LT	STA 196+00RT - STA 196+97RT
STA 207+00LT - STA 208+72LT	STA 206+83RT - STA 207+50RT

NOTE:

PLACE 4-INCHES OF ¾-INCH BASE AGGREGATE DENSE IN AREAS WHERE PROPOSED GRAVEL SHOULDER EXTENDS PAST EXISTING GRAVEL SHOULDER.

WIDENING BEYOND THE EXISTING GRAVEL SHOULDER REQUIRES 10-INCHES OF 1¼-INCH B.A.D. AND 9-INCHES OF SELECT CRUSHED MATERIAL.

BEGIN AND END ABRUPTLY AS SHOWN ON CROSS SECTIONS.

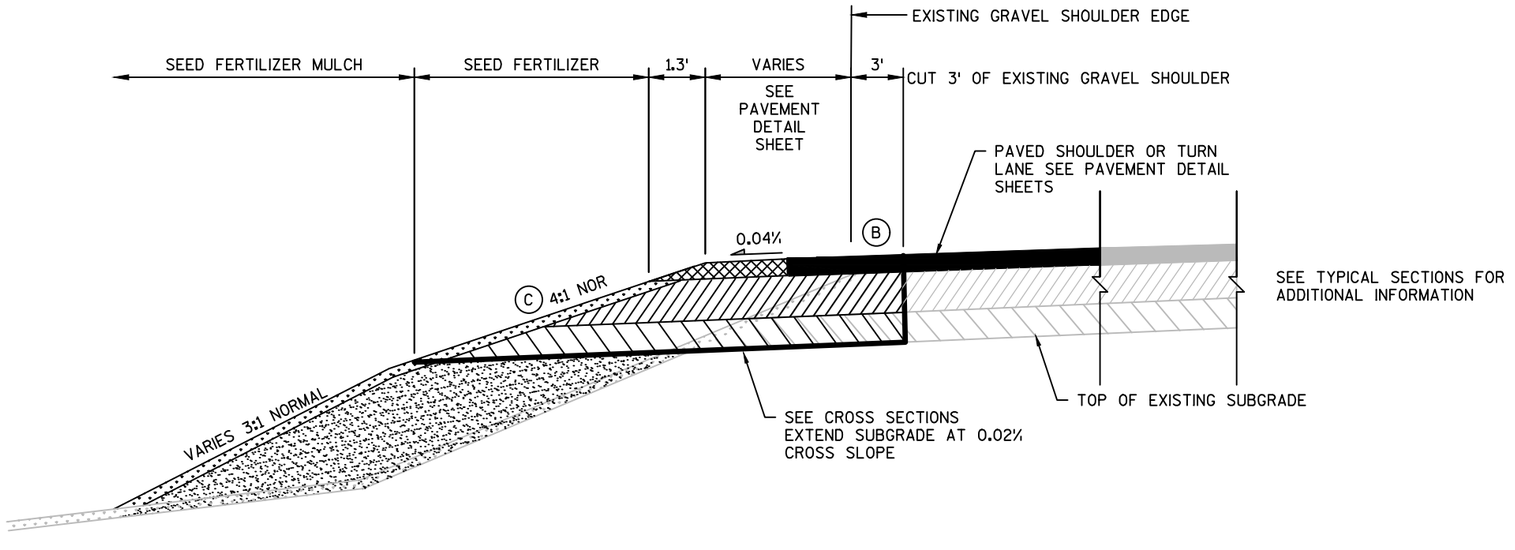
(A) EXCEPTION: WHERE PROPOSED MAINLINE PROFILE IS ADJUSTED THROUGH SELECTED INTERSECTIONS. SEE INTERSECTION DETAILS FOR GRADES.

(B) 4:1 ON OUTSIDE OF CURVE TO CLEAR ZONE LIMIT, THEN 3:1 MAX

LEGEND

- 4" HMA TYPE MT 58-28 S (2.5" LOWER LAYER 3 MT 58-28 S 1.5" UPPER LAYER 5 MT 58-28 S)
- 4" BASE AGGREGATE DENSE 3/4-INCH
- BASE AGGREGATE DENSE 1 1/4-INCH
- BORROW
- 9" SELECT CRUSHED MATERIAL
- 4" TOPSOIL
- EXISTING HMA PAVEMENT
- EXISTING BASE AGGREGATE DENSE
- EXISTING SAND-GRAVEL FILL
- EXISTING TOPSOIL

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	TYPICAL SECTIONS (PULVERIZE AND RELAY)	SHEET 13	E



NOTE:

PLACE 2.75" OF ¾-INCH BASE AGGREGATE DENSE IN AREAS WHERE PROPOSED GRAVEL SHOULDER EXTENDS PAST EXISTING GRAVEL SHOULDER.

WIDENING BEYOND THE EXISTING GRAVEL SHOULDER REQUIRES 15.25" OF 1¼-INCH B.A.D. UNDER PROPOSED GRAVEL SHOULDER, 10.75" OF 1¼-INCH B.A.D. UNDER PROPOSED TRAFFIC LANE, AND 9-INCHES OF SELECT CRUSHED MATERIAL.

(A) EXCEPTION: WHERE PROPOSED MAINLINE PROFILE IS ADJUSTED THROUGH SELECTED INTERSECTIONS. SEE INTERSECTION DETAILS FOR GRADES.

(B) 3' FROM EXISTING SHOULDER POINT

(C) 4:1 ON OUTSIDE OF CURVE TO CLEAR ZONE LIMIT, THEN 3:1 MAX

STH 49 PROPOSED WIDENING FOR COLD-IN-PLACE RECYCLE (NO GUARDRAIL SHOWN)

LEFT	RIGHT
STA 228+43LT - STA 229+78LT	STA 228+88RT - STA 230+28RT
STA 231+85LT - STA 233+19LT	STA 231+85RT - STA 233+45RT
STA 254+81LT - STA 257+50LT	STA 277+00RT - STA 279+98RT
STA 281+59LT - STA 283+19LT	STA 281+50RT - STA 283+00RT
STA 285+00LT - STA 287+00LT	STA 286+50RT - STA 287+00RT
STA 287+63LT - STA 288+13LT	STA 289+48RT - STA 289+58RT
STA 289+48LT - STA 289+55LT	STA 298+13RT - STA 299+38RT
STA 299+00LT - STA 299+48LT	STA 303+81RT - STA 305+00RT
STA 303+00LT - STA 304+50LT	STA 328+47RT - STA 330+27RT
STA 326+00LT - STA 330+97LT	
STA 336+00LT - STA 337+50LT	
STA 413+67LT - STA 415+13LT	

LEGEND

- 2.75" HMA TYPE MT 58-28 S (1.75" LOWER LAYER 4 MT 58-28 S 1.0" UPPER LAYER 5 MT 58-28 S)
- 4" C.I.R. (FLUFF = APPROX. 0.5 IN.) COLD IN PLACE RECYCLING (CIR) PAVEMENT PARTIAL DEPTH (AFTER) REMOVING ASPHALTIC SURFACE MILLING)
- 2.75" BASE AGGREGATE DENSE 3/4-INCH
- BASE AGGREGATE DENSE 1 1/4-INCH
- BORROW
- 9" SELECT CRUSHED MATERIAL
- 4" TOPSOIL
- EXISTING HMA PAVEMENT
- EXISTING BASE AGGREGATE DENSE
- EXISTING SAND-GRAVEL FILL
- EXISTING TOPSOIL

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	TYPICAL SECTIONS (CIR)	SHEET 14	E

2

CL **NORTH BOUND**

LOCATION STA - STA	INITIAL MILL PASS DEPTH (IN.) NOTE 1	CIR MILL DEPTH (IN) NOTE 2	CIR PAVE WIDTH (FT) NOTE 3	REMARKS
225+25 - 229+30	2.75	4.0	12	
229+30 - 276+48	1.75	5.0	15	
276+48 - 282+52	2.75	4.0	12	TURN, TAPER RECONSTRUCT TO STA 279+98
282+52 - 328+47	1.75	5.0	15	
328+47 - 335+41	2.75	4.0	12	
335+41 - 339+23	1.42	5.33	16	
339+23 - 344+50	2.75	4.0	12	
344+50 - 359+32	1.42	5.33	16	
359+32 - 371+24	2.75	4.0	12	BY-PASS LANE RECONSTRUCTED
371+24 - 405+77	1.08	5.67	17	
405+77 - 415+13	2.75	4.0	12	ADDITIONAL WIDTH OF PAVEMENT MILL 1.75" AND PAVE 1.75" IN FRONT

NOTES

INITIAL MILL PASS DEPTH IS FOR MAINLINE PAVEMENT.
ALSO MILL FULL DEPTH SHOULDER PAVEMENT WITH INITIAL PASS.

CIR MILL 12 FEET (+) WIDE TO MEET CIR SPECIFICATION
FOR MATCH WITH ADJACENT PAVEMENT WORK.

ADJUST RELAY MATERIAL WIDTH TO ACCOUNT FOR EXPANSION IN CIR
PROCESS OR REMOVE EXCESS MATERIAL INCIDENTAL TO CIR PROCESS WORK.

CL **SOUTHBOUND**

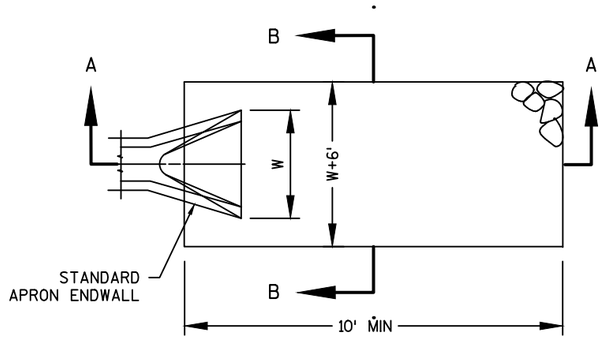
LOCATION STA - STA	INITIAL MILL PASS DEPTH (IN) NOTE 1	CIR MILL DEPTH (IN) NOTE 2	CIR PAVE WIDTH (FT) NOTE 3	INITIAL MILL PASS DEPTH (IN) NOTE 1	CIR MILL DEPTH (IN) NOTE 2	CIR PAVE WIDTH (FT) NOTE 3	REMARKS
415+13 - 407+47	2.75	4.0	12				415+13 - 411+40 4" NEW HMA 411+40 - 407+47 MILL 1.75" PAVE 1.75"
407+47 - 373+35	1.08	5.67	17				
373+35 - 371+24	2.75	N/A	N/A	1.42	4.0	16	CENTER PAVEMENT WIDTH VARIES MILL TO MATCH CIR ON EACH SIDE
371+24-366+36	2.75	N/A	N/A	2.75	4.0	12	
366+36 - 365+37	2.75	4.0	12	2.75	4.0	12	
365+37 - 360+86	2.75	4.0	12	1.42	5.33	16	
360+86 - 356+68	2.75	4.0	12	2.75	4.0	12	
356+68 - 344+85	2.75	4.0	12	1.42	5.33	16	
344+85 - 341+41	2.75	4.0	12	2.75	4.0	12	
341+41 - 338+17	2.75	4.0	12	1.42	5.33	16	
338+17 - 331+75	2.75	4.0	12	2.75	4.0	12	TURN LANE RECONSTRUCT 338+17 - 334+66
331+75 - 323+25	2.75	4.0	12				CLIMBING LANE TAPER RECONSTRUCTION AND SHOULDER PAVING FOR BEAM GUARD
323+25 - 258+31	1.75	5.0	15				
258+31 - 252+29	2.75	4.0	12				TURN LANE RECONSTRUCT 258+31 - 254+81
252+29 - 225+25	1.75	5.0	15				

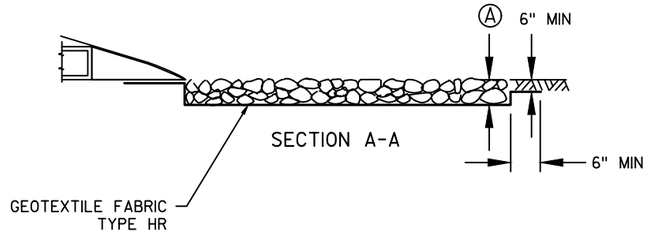
NOTES

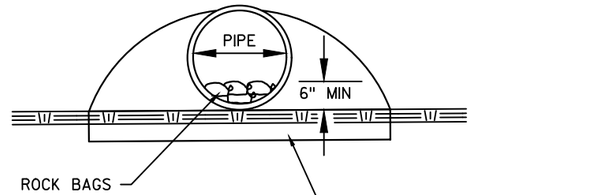
1. INITIAL MILL PASS DEPTH IS FOR MAINLINE PAVEMENT.
   ALSO MILL FULL DEPTH SHOULDER PAVEMENT WITH INITIAL PASS.

2. CIR MILL 12 FEET (+) WIDE TO MEET CIR SPECIFICATION
   FOR MATCH WITH ADJACENT PAVEMENT WORK.

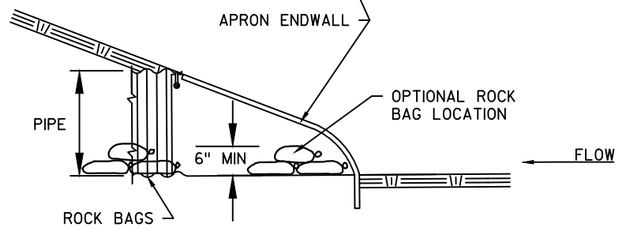
3. ADJUST RELAY MATERIAL WIDTH TO ACCOUNT FOR EXPANSION IN CIR
   PROCESS OR REMOVE EXCESS MATERIAL INCIDENTAL TO CIR PROCESS WORK.







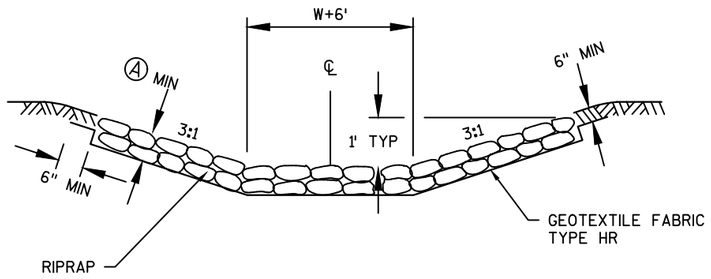
END VIEW



SIDE VIEW

CULVERT PIPE CHECK

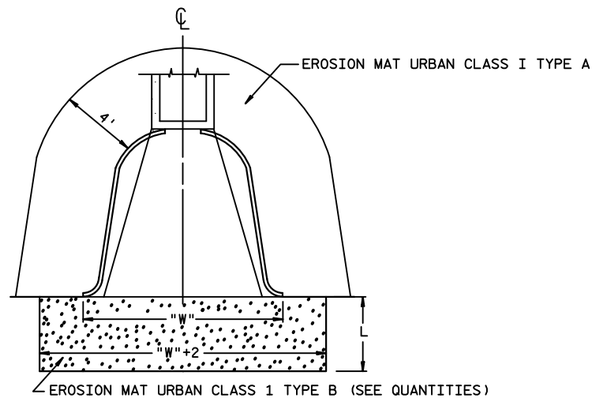
(INSTALL ON INLET END ONLY)



SECTION B-B

RIP RAP AND GEOTEXTILE

NOTE : Ⓐ = 1' FOR RIPRAP; 1.5' FOR MEDIUM RIPRAP; 2' FOR HEAVY RIPRAP



EROSION CONTROL AT PIPE ENDS

L = 3 TIMES DIAMETER OR 10' MIN
INCREASE IF WARRANTED

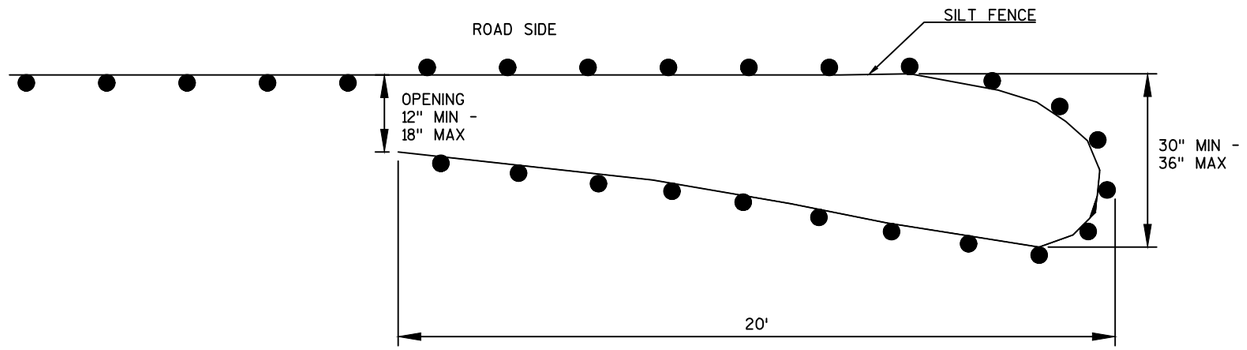
PROJECT NO:6210-00-72	HWY:STH 49	COUNTY:GREEN LAKE	CONSTRUCTION DETAILS	SHEET 17	E

RUNOFF COEFFICIENTS FOR SPECIFIC LAND USE

	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 = 143.5 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 5.0 ACRES

PROJECT 6210-00-72

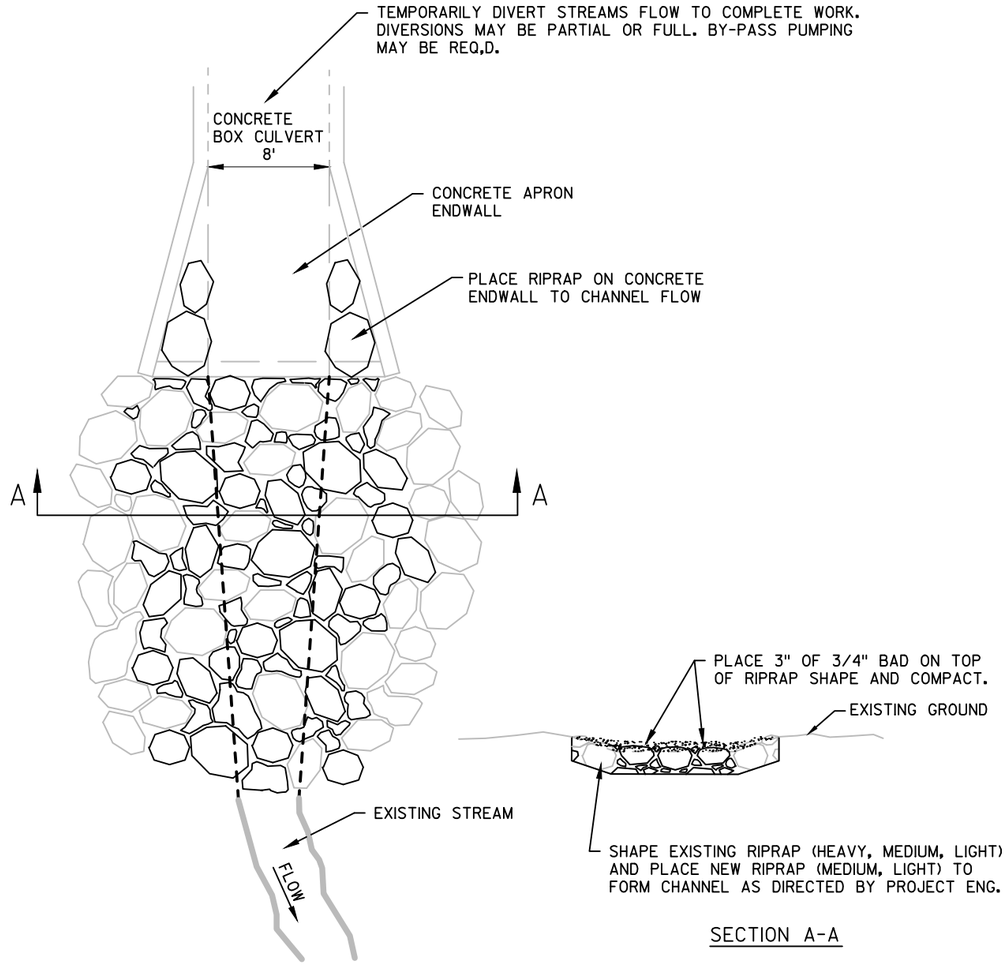


PLAN VIEW

GENERAL NOTES:

SILT FENCE POSTS FOR THE TURN-AROUND SHOULD BE ON THE OUTSIDE OF THE TURN-AROUND. AND TRENCHED IN ACCORDING TO SILT FENCE REQUIREMENTS.

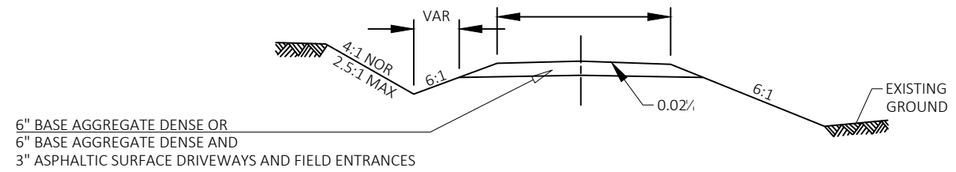
TEMPORARY SMALL ANIMAL TURN-AROUND



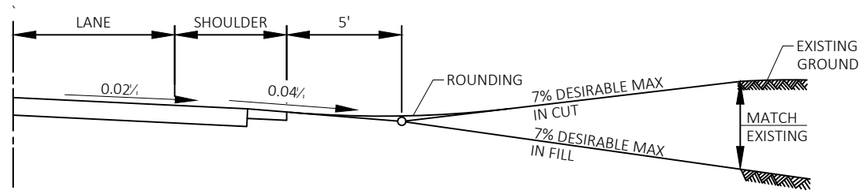
SECTION A-A

SPECIAL RIPRAP PLACEMENT AT EXISTING 8'X8' BOX CULVERT
STA 203+23 78' LT

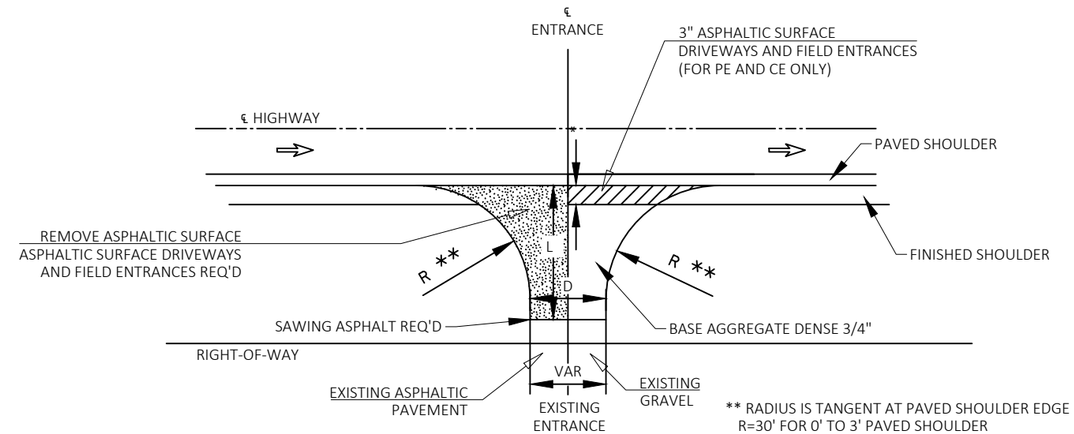
NOTE:
APPROXIMATE WORK AREA 16'x16'



TYPICAL CROSS SECTION



TYPICAL PROFILE VIEW



L=VARIABLE, EXACT LENGTH TO BE DETERMINED IN THE FIELD BY THE ENGINEER

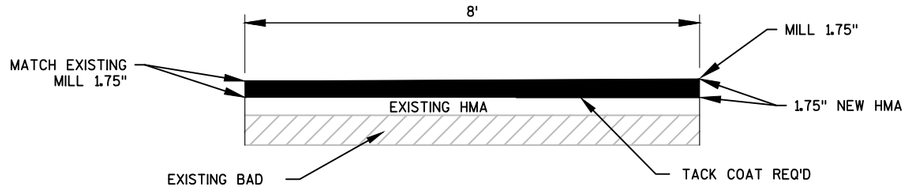
D=DRIVEWAY WIDTH
D=20'TYP(PE & FE) (16'MIN-24'MAX)
D=28'TYP(CE & FARM ENT) (24'MIN-35'MAX)

** RADIUS IS TANGENT AT PAVED SHOULDER EDGE
R=30' FOR 0' TO 3' PAVED SHOULDER
R=25' FOR GREATER THAN 3' PAVED SHOULDER

* 3' MIN OR TO FINISHED SHOULDER WHICH EVER IS GREATER

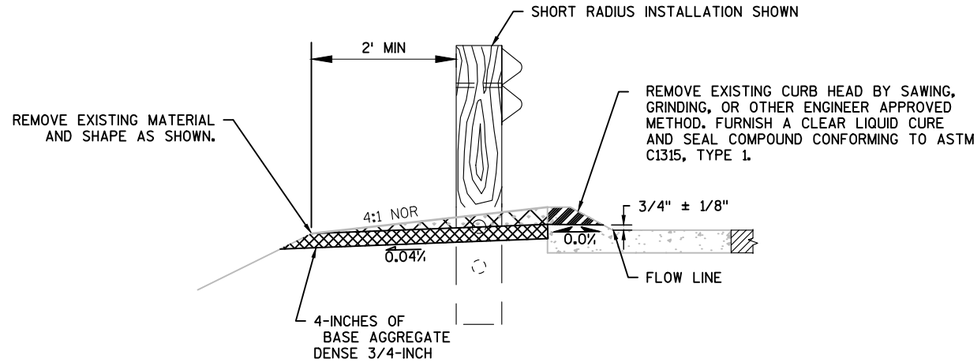
PLAN VIEW

RURAL DRIVEWAY INTERSECTION
(PE, FE & CE)



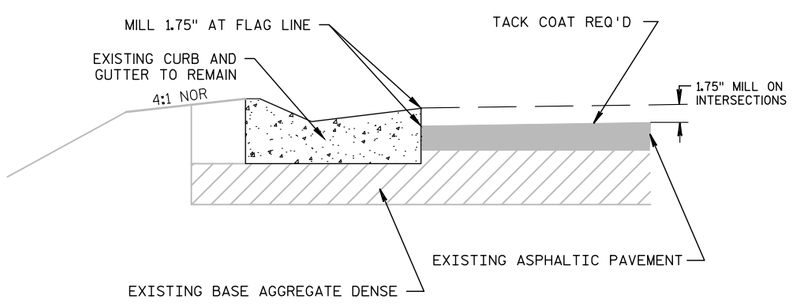
REMOVING ASPHALTIC SURFACE BUTT JOINT

9"A"+18	11"J"+23
8"B"+75	13"K"+31
8"C"+23	16"K"+51
11"C"+67	8"L"+56
11"D"+63	11"L"+56
9"E"+16	11"L"+10
11"F"+80	9"M"+15
13"G"+70	8"N"+37
11"H"+32	10"O"+88
8"I"+69	415+13

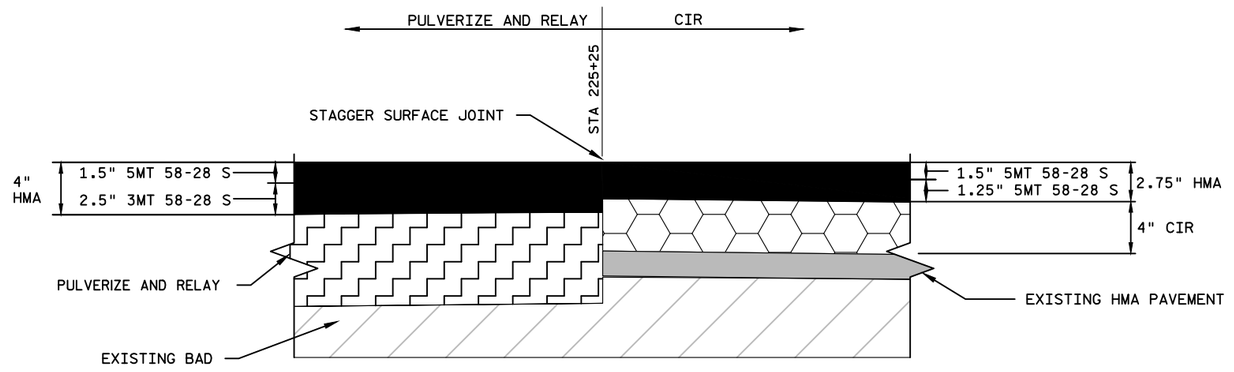


REMOVING CURB HEAD

SPRINGBROOK ROAD, NW AND SW QUADRANTS
CTH V, SE, SW QUADRANTS
CTH A, SW QUADRANT



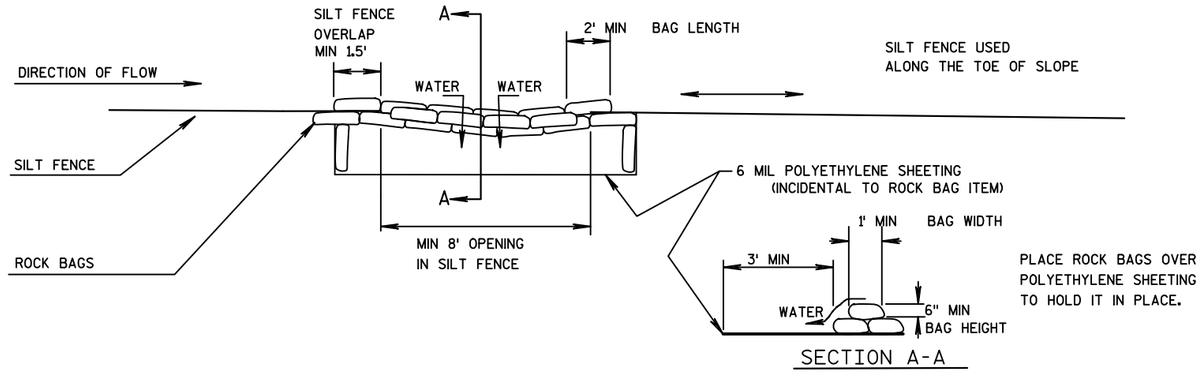
MILLING DETAIL ADJACENT TO EXISTING CURB & GUTTER



MAINLINE BUTT JOINT DETAIL

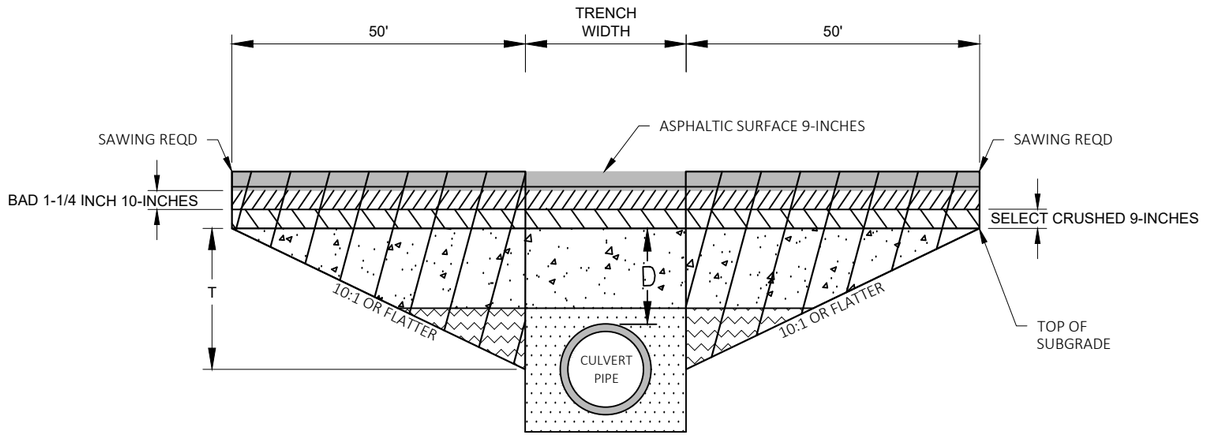
STA 225+25

2



ROCK BAGS USED FOR SILT FENCE RELIEF DETAIL

(SEE EROSION CONTROL PLAN FOR RELIEF LOCATIONS)



TRANSITION CUT DEPTH (T) = THE LESSER OF
DEPTH TO CENTER OF PIPE OR 5 FT.
DO NOT EXTEND TRANSITION CUT BELOW HORIZONTAL CENTER OF PIPE.

DEPTH D < 6 FT

PROPOSED SURFACE

TRENCH BACKFILL

TRENCH OR FOUNDATION BACKFILL

FOUNDATION BACKFILL

TRANSITION CUT

BASE AGGREGATE DENSE 1-1/4 INCH

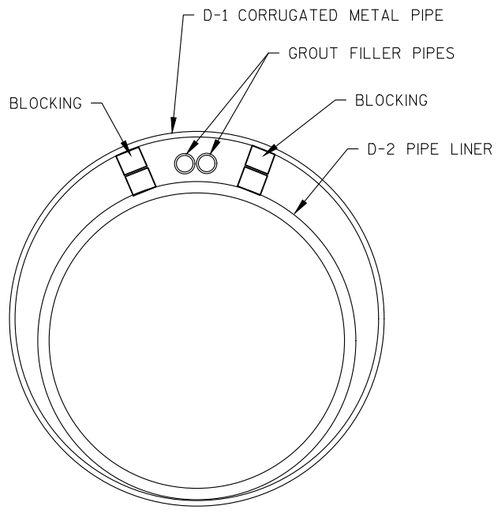
SELECT CRUSHED

NOTES

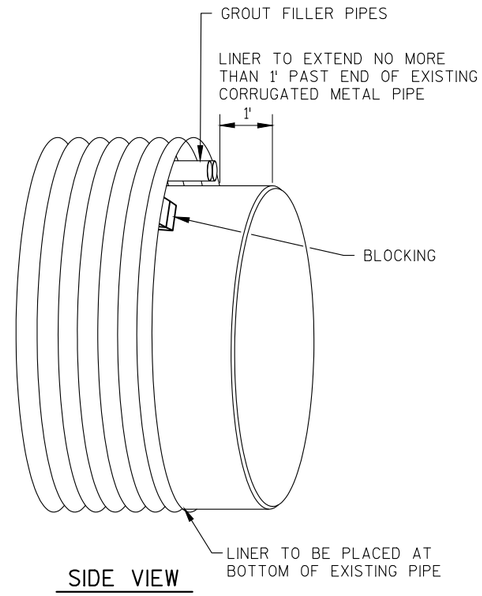
TRANSITION CUT IS PAID AS EXCAVATION COMMON.
TRANSITION CUT WIDTH IS FROM SUBGRADE SHOULDER POINT TO SUBGRADE SHOULDER POINT.
TRENCH BACKFILL AND FOUNDATION BACKFILL USED IN TRANSITION CUT AREA IS INCIDENTAL TO PIPE INSTALLATION (PER STD SPEC 520).
PERFORM CULVERT PIPE REPLACEMENT PRIOR TO CIR AND PAVING
PLACE ASPHALTIC SURFACE TO MATCH ADJACENT ASPHALT THICKNESS AFTER PIPE INSTALLATION

CULVERT PIPE TRANSITION

ROUTE	STA (CL)	DEPTH D (FT)	PIPE DIA (IN)	REMARKS
STH 49	STA 222+24	D=4.7 FT	36-INCH	
STH 49	STA 289+55	D=5 FT	24-INCH	
STH 49	STA 378+10	D=3 FT	36-INCH	
STH 49	STA 389+12	D=2.5 FT	42-INCH	
STH 49	STA 398+12	D=3.2 FT	42-INCH	(PLACE PIPE INVERT 6-INCHES BELOW NORMAL CHANNEL BOTTOM)



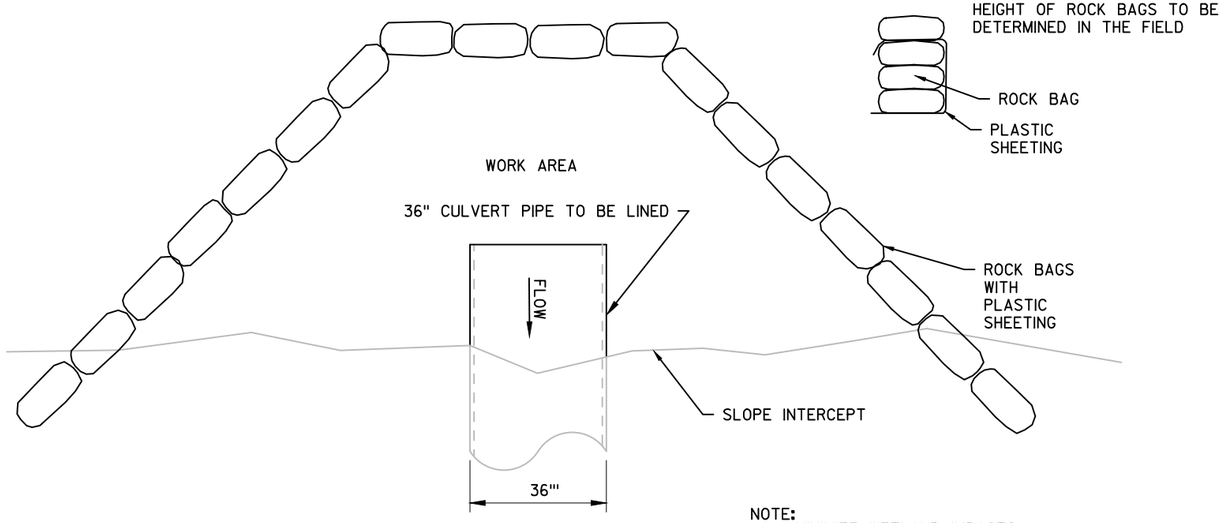
FRONT VIEW



SIDE VIEW

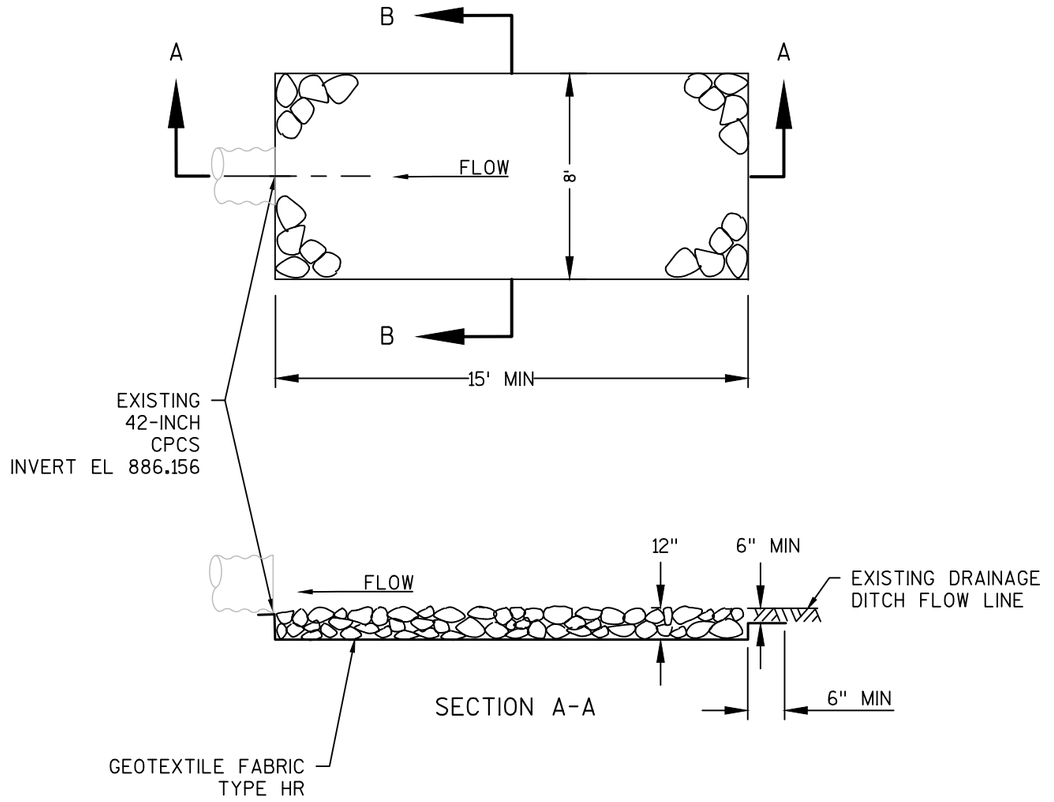
PIPE LINER DETAIL

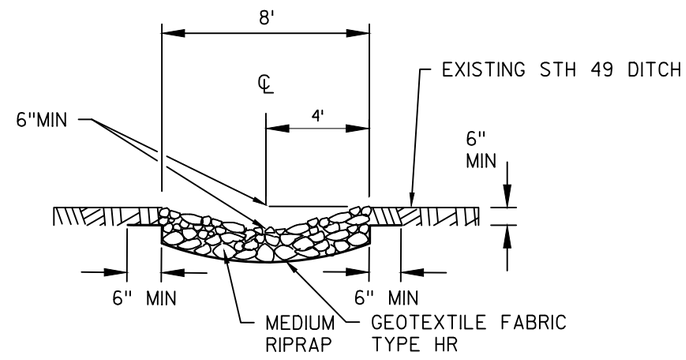
STA.	D-1	D-2
286+92	48" ID	39.26" ID MIN
333+17	36" ID	29.91" ID MIN



SPECIAL ROCK BAG DAM DETAIL

STA 337+17



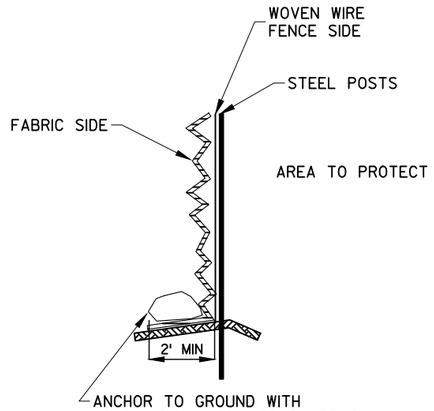


SECTION B-B

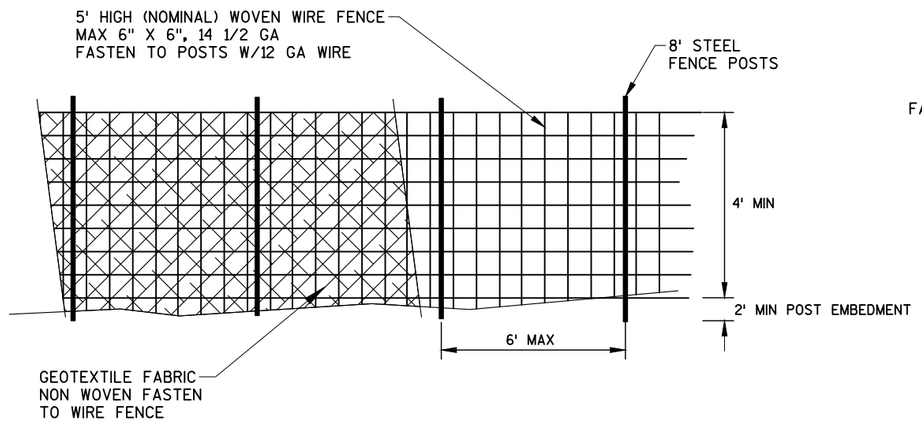
SEDIMENT TRAP AT CULVERT INLET

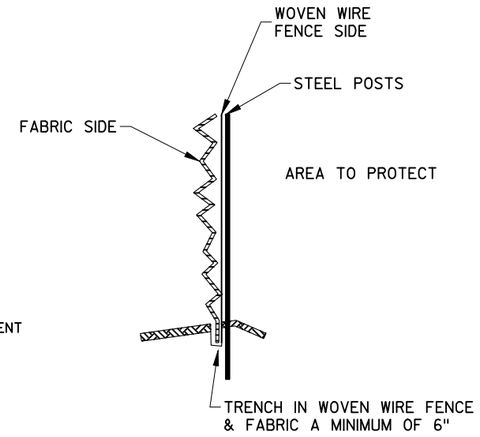
STA 320+10 EXISTING 42" CPCS

NOTE:
TIE FABRIC TO WOVEN FENCE EVERY 2 FEET
ADJUST POST EMBEDMENT AND/OR SPACING BASED ON EXISTING SOILS



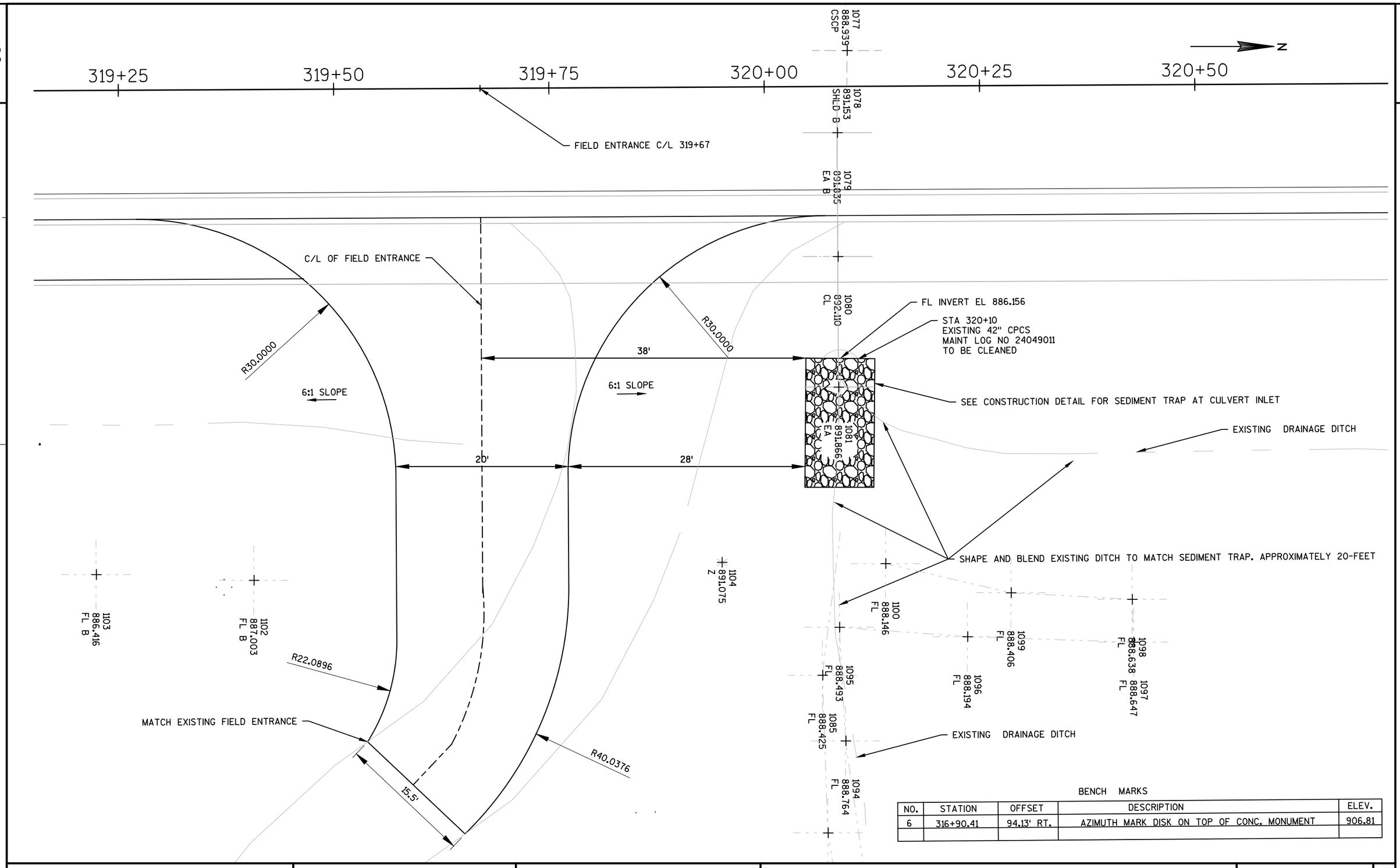
ANCHORED INSTALLATION FOR WET CONDITION





TRENCH INSTALLATION FOR DRY CONDITION

HEAVY DUTY SILT FENCE



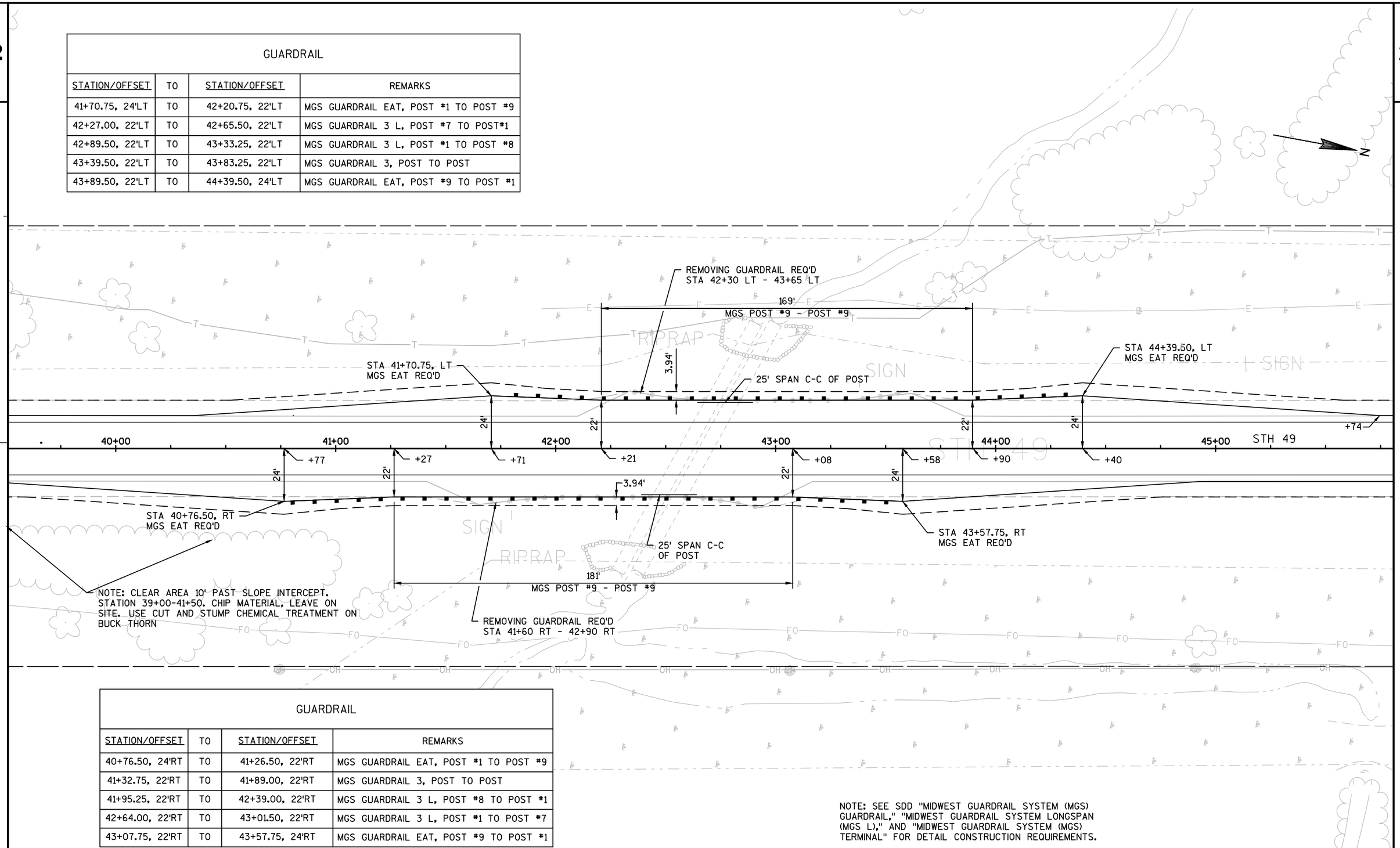
BENCH MARKS

NO.	STATION	OFFSET	DESCRIPTION	ELEV.
6	316+90.41	94.13' RT.	AZIMUTH MARK DISK ON TOP OF CONC. MONUMENT	906.81

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CONSTRUCTION DETAIL	SHEET 25	E

2

GUARDRAIL			
STATION/OFFSET	TO	STATION/OFFSET	REMARKS
41+70.75, 24'LT	TO	42+20.75, 22'LT	MGS GUARDRAIL EAT, POST #1 TO POST #9
42+27.00, 22'LT	TO	42+65.50, 22'LT	MGS GUARDRAIL 3 L, POST #7 TO POST#1
42+89.50, 22'LT	TO	43+33.25, 22'LT	MGS GUARDRAIL 3 L, POST #1 TO POST #8
43+39.50, 22'LT	TO	43+83.25, 22'LT	MGS GUARDRAIL 3, POST TO POST
43+89.50, 22'LT	TO	44+39.50, 24'LT	MGS GUARDRAIL EAT, POST #9 TO POST #1



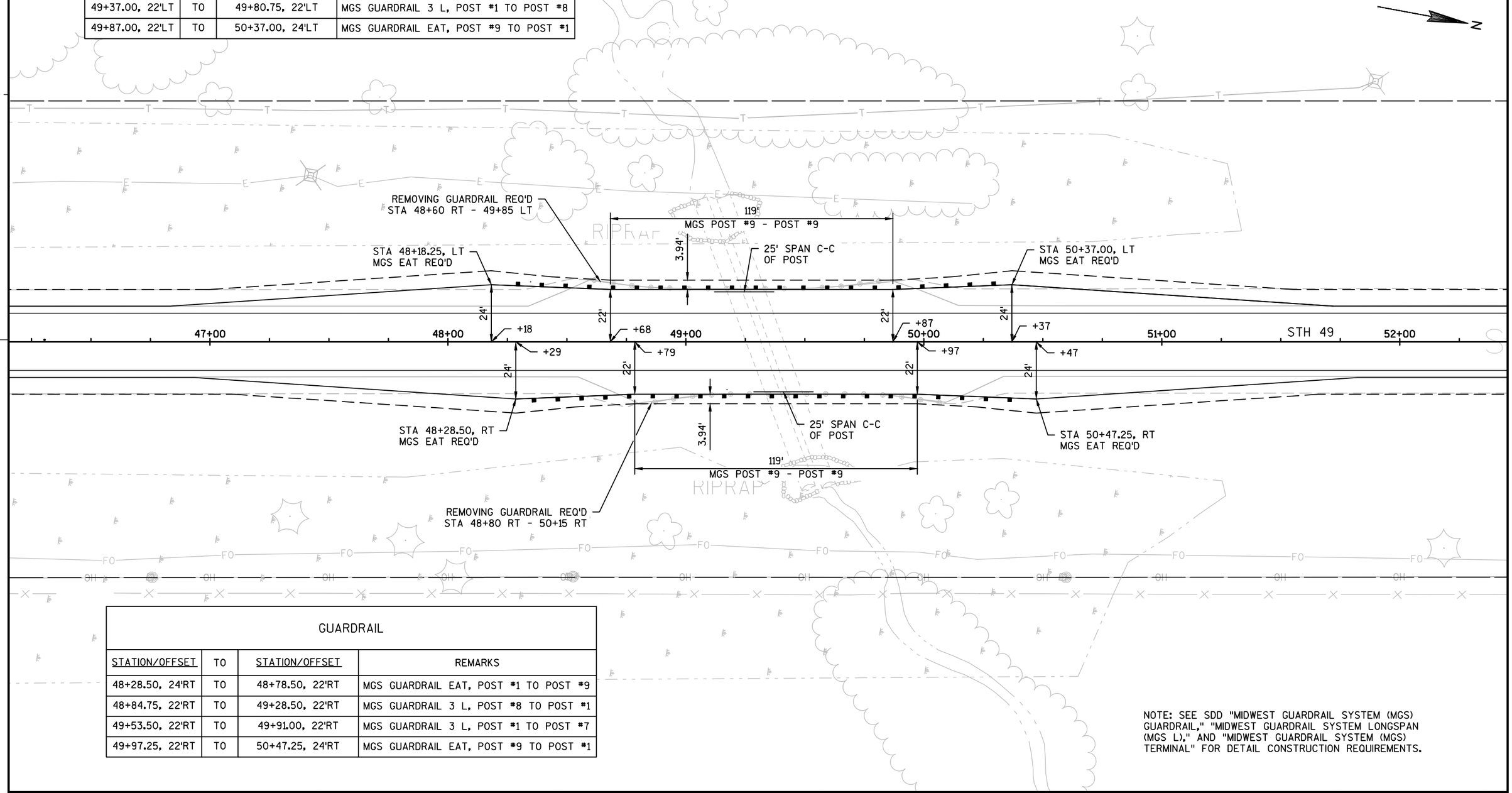
GUARDRAIL			
STATION/OFFSET	TO	STATION/OFFSET	REMARKS
40+76.50, 24'RT	TO	41+26.50, 22'RT	MGS GUARDRAIL EAT, POST #1 TO POST #9
41+32.75, 22'RT	TO	41+89.00, 22'RT	MGS GUARDRAIL 3, POST TO POST
41+95.25, 22'RT	TO	42+39.00, 22'RT	MGS GUARDRAIL 3 L, POST #8 TO POST #1
42+64.00, 22'RT	TO	43+01.50, 22'RT	MGS GUARDRAIL 3 L, POST #1 TO POST #7
43+07.75, 22'RT	TO	43+57.75, 24'RT	MGS GUARDRAIL EAT, POST #9 TO POST #1

NOTE: SEE SDD "MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL," "MIDWEST GUARDRAIL SYSTEM LONGSPAN (MGS L)," AND "MIDWEST GUARDRAIL SYSTEM (MGS) TERMINAL" FOR DETAIL CONSTRUCTION REQUIREMENTS.

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	GUARDRAIL DETAIL	SHEET 26	E

2

GUARDRAIL			
STATION/OFFSET	TO	STATION/OFFSET	REMARKS
48+18.25, 24'LT	TO	48+68.25, 22'LT	MGS GUARDRAIL EAT, POST #1 TO POST #9
48+74.50, 22'LT	TO	49+12.00, 22'LT	MGS GUARDRAIL 3 L, POST #7 TO POST#1
49+37.00, 22'LT	TO	49+80.75, 22'LT	MGS GUARDRAIL 3 L, POST #1 TO POST #8
49+87.00, 22'LT	TO	50+37.00, 24'LT	MGS GUARDRAIL EAT, POST #9 TO POST #1

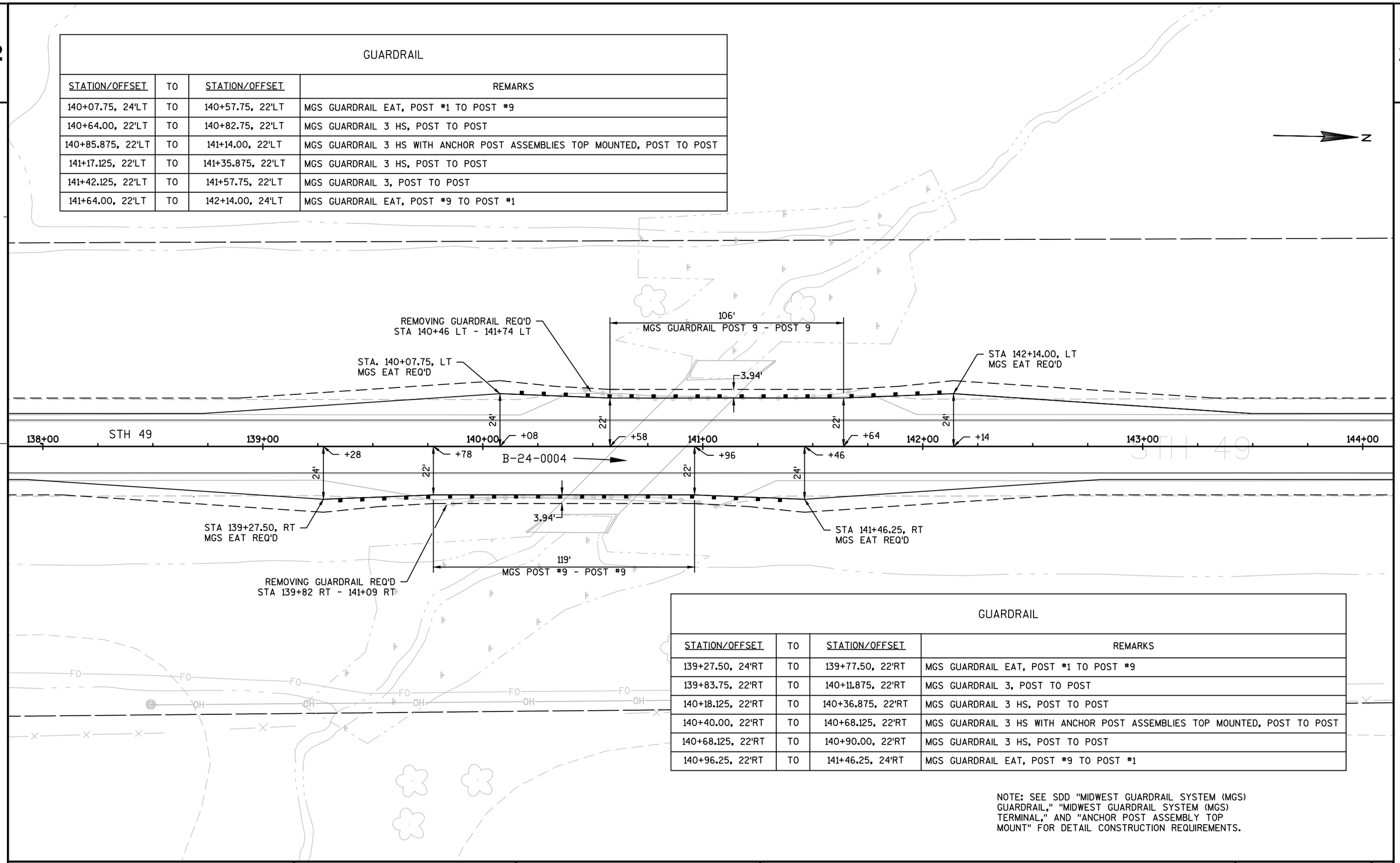


GUARDRAIL			
STATION/OFFSET	TO	STATION/OFFSET	REMARKS
48+28.50, 24'RT	TO	48+78.50, 22'RT	MGS GUARDRAIL EAT, POST #1 TO POST #9
48+84.75, 22'RT	TO	49+28.50, 22'RT	MGS GUARDRAIL 3 L, POST #8 TO POST #1
49+53.50, 22'RT	TO	49+91.00, 22'RT	MGS GUARDRAIL 3 L, POST #1 TO POST #7
49+97.25, 22'RT	TO	50+47.25, 24'RT	MGS GUARDRAIL EAT, POST #9 TO POST #1

NOTE: SEE SDD "MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL," "MIDWEST GUARDRAIL SYSTEM LONGSPAN (MGS L)," AND "MIDWEST GUARDRAIL SYSTEM (MGS) TERMINAL" FOR DETAIL CONSTRUCTION REQUIREMENTS.

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	GUARDRAIL DETAIL	SHEET 27	E

GUARDRAIL			
STATION/OFFSET	TO	STATION/OFFSET	REMARKS
140+07.75, 24'LT	TO	140+57.75, 22'LT	MGS GUARDRAIL EAT, POST #1 TO POST #9
140+64.00, 22'LT	TO	140+82.75, 22'LT	MGS GUARDRAIL 3 HS, POST TO POST
140+85.875, 22'LT	TO	141+14.00, 22'LT	MGS GUARDRAIL 3 HS WITH ANCHOR POST ASSEMBLIES TOP MOUNTED, POST TO POST
141+17.125, 22'LT	TO	141+35.875, 22'LT	MGS GUARDRAIL 3 HS, POST TO POST
141+42.125, 22'LT	TO	141+57.75, 22'LT	MGS GUARDRAIL 3, POST TO POST
141+64.00, 22'LT	TO	142+14.00, 24'LT	MGS GUARDRAIL EAT, POST #9 TO POST #1



GUARDRAIL			
STATION/OFFSET	TO	STATION/OFFSET	REMARKS
139+27.50, 24'RT	TO	139+77.50, 22'RT	MGS GUARDRAIL EAT, POST #1 TO POST #9
139+83.75, 22'RT	TO	140+11.875, 22'RT	MGS GUARDRAIL 3, POST TO POST
140+18.125, 22'RT	TO	140+36.875, 22'RT	MGS GUARDRAIL 3 HS, POST TO POST
140+40.00, 22'RT	TO	140+68.125, 22'RT	MGS GUARDRAIL 3 HS WITH ANCHOR POST ASSEMBLIES TOP MOUNTED, POST TO POST
140+68.125, 22'RT	TO	140+90.00, 22'RT	MGS GUARDRAIL 3 HS, POST TO POST
140+96.25, 22'RT	TO	141+46.25, 24'RT	MGS GUARDRAIL EAT, POST #9 TO POST #1

NOTE: SEE SDD "MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL," "MIDWEST GUARDRAIL SYSTEM (MGS) TERMINAL," AND "ANCHOR POST ASSEMBLY TOP MOUNT" FOR DETAIL CONSTRUCTION REQUIREMENTS.

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	GUARDRAIL DETAIL	SHEET 28	E

NOTE: SEE SDD "MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL," AND "MIDWEST GUARDRAIL SYSTEM (MGS) TERMINAL" FOR DETAIL CONSTRUCTION REQUIREMENTS.

N

MOW STRIP EMULSIFIED ASPHALT REQ'D 4' WIDE

BEAM GUARD MATCH POINT STA 202+00

103' MGS POST #9 - STA 198+50

STA 198+50 - 202+00 MGS LONG POSTS AT HALFPOST SPACING

REMOVING GUARDRAIL REQ'D STA 197+73 LT - 9'G'+00 RT

STA 196+97.36, LT MGS EAT REQ'D

3.94'

24'

22'

196+00 +64 197+00 +14 198+00 199+00 200+00 201+00 202+00

STH 49

+97 +47

24' 22'

STA 196+63.50, RT MGS EAT REQ'D

REMOVING GUARDRAIL REQ'D STA 197+74 RT - 206+27 RT

3.94'

137' MGS POST #9 - STA 198+50

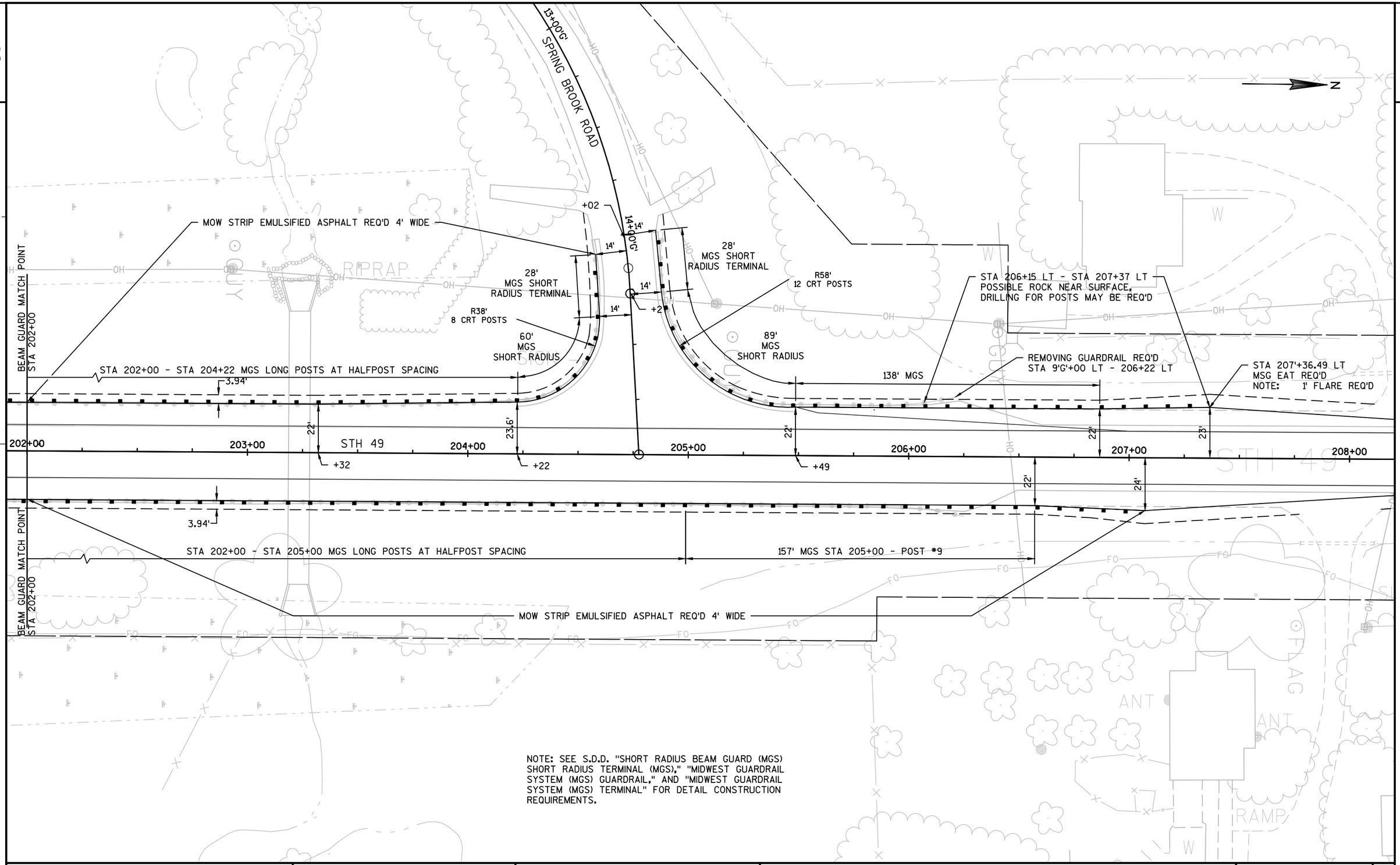
STA 198+50 - STA 202+00 MGS LONG POSTS AT HALFPOST SPACING

MOW STRIP EMULSIFIED ASPHALT REQ'D 4' WIDE

BEAM GUARD MATCH POINT STA 202+00

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	GUARDRAIL DETAIL	SHEET 29	E

2



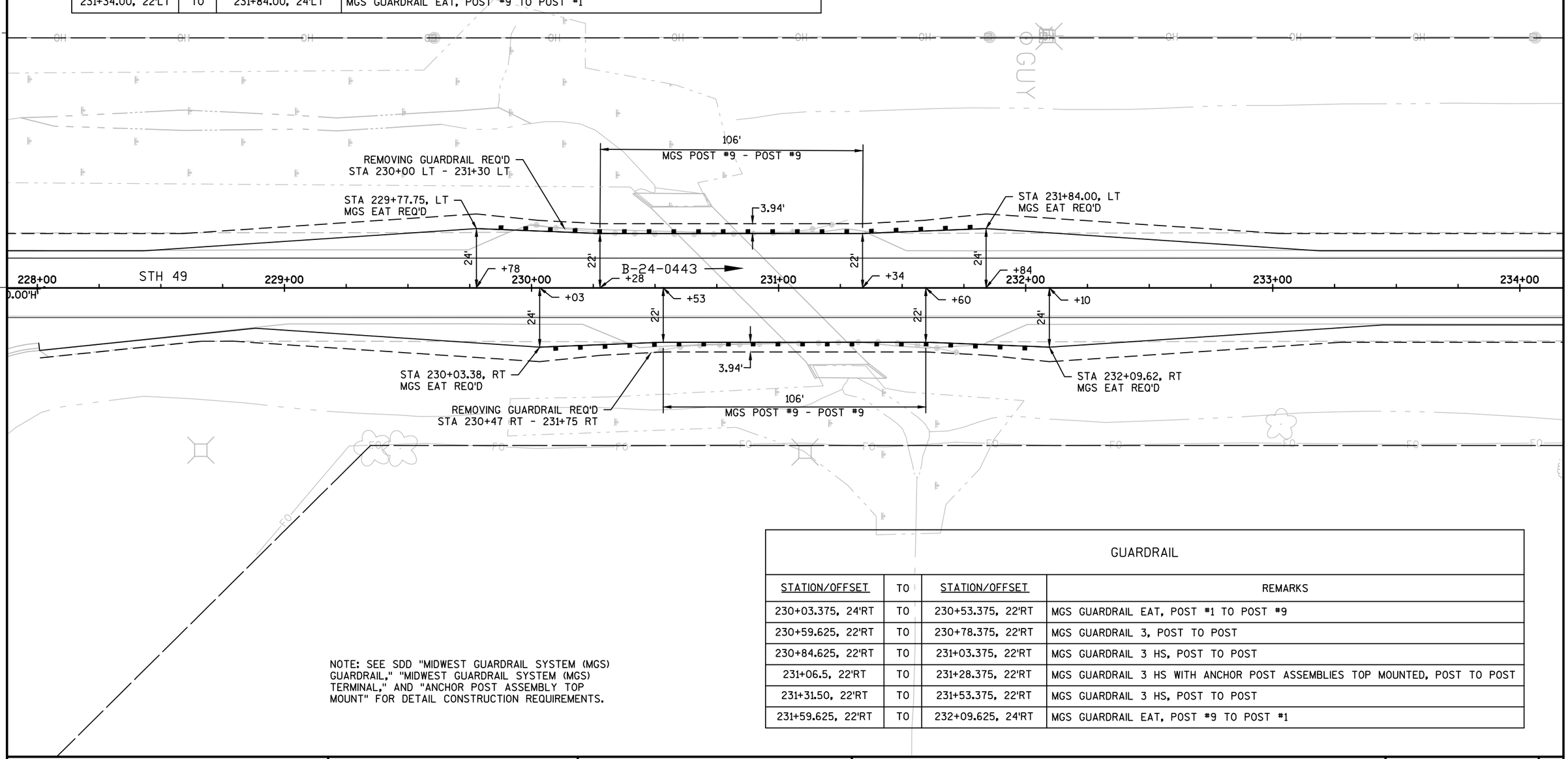
NOTE: SEE S.D.D. "SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)," "MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL," AND "MIDWEST GUARDRAIL SYSTEM (MGS) TERMINAL" FOR DETAIL CONSTRUCTION REQUIREMENTS.

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	GUARD RAIL DETAIL	SHEET 30	E

2

GUARDRAIL			
STATION/OFFSET	TO	STATION/OFFSET	REMARKS
229+77.75, 24'LT	TO	230.27.75, 22'LT	MGS GUARDRAIL EAT, POST #1 TO POST #9
230+34.00, 22'LT	TO	230+55.875, 22'LT	MGS GUARDRAIL 3 HS, POST TO POST
230+59.00, 22'LT	TO	230+80.875, 22'LT	MGS GUARDRAIL 3 HS WITH ANCHOR POST ASSEMBLIES TOP MOUNTED, POST TO POST
230+84.00, 22'LT	TO	231+02.75, 22'LT	MGS GUARDRAIL 3 HS, POST TO POST
231+06.00, 22'LT	TO	231+27.75, 22'LT	MGS GUARDRAIL 3, POST TO POST
231+34.00, 22'LT	TO	231+84.00, 24'LT	MGS GUARDRAIL EAT, POST #9 TO POST #1

N

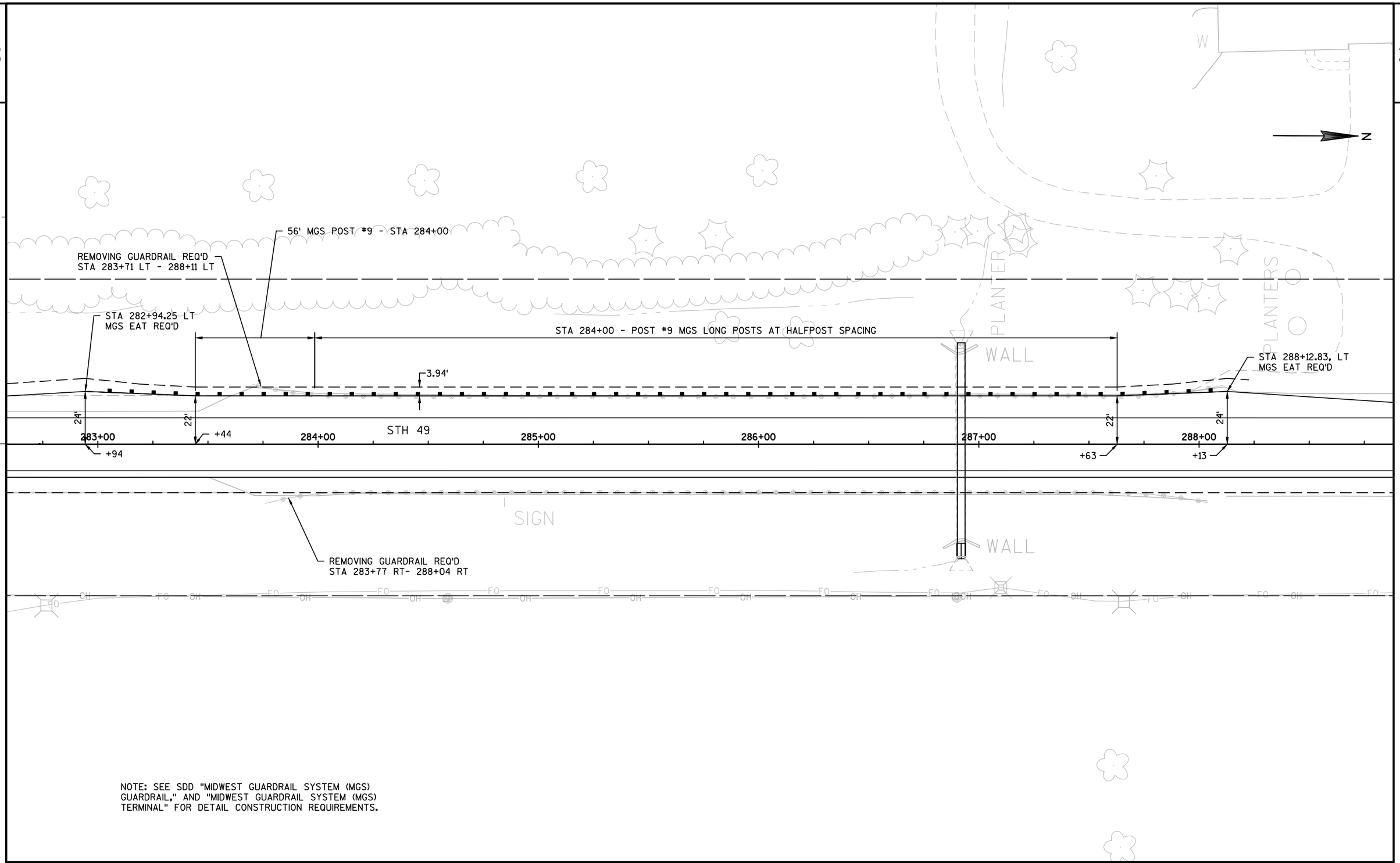


NOTE: SEE SDD "MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL," "MIDWEST GUARDRAIL SYSTEM (MGS) TERMINAL," AND "ANCHOR POST ASSEMBLY TOP MOUNT" FOR DETAIL CONSTRUCTION REQUIREMENTS.

GUARDRAIL			
STATION/OFFSET	TO	STATION/OFFSET	REMARKS
230+03.375, 24'RT	TO	230+53.375, 22'RT	MGS GUARDRAIL EAT, POST #1 TO POST #9
230+59.625, 22'RT	TO	230+78.375, 22'RT	MGS GUARDRAIL 3, POST TO POST
230+84.625, 22'RT	TO	231+03.375, 22'RT	MGS GUARDRAIL 3 HS, POST TO POST
231+06.5, 22'RT	TO	231+28.375, 22'RT	MGS GUARDRAIL 3 HS WITH ANCHOR POST ASSEMBLIES TOP MOUNTED, POST TO POST
231+31.50, 22'RT	TO	231+53.375, 22'RT	MGS GUARDRAIL 3 HS, POST TO POST
231+59.625, 22'RT	TO	232+09.625, 24'RT	MGS GUARDRAIL EAT, POST #9 TO POST #1

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	GUARDRAIL DETAIL	SHEET 31	E

2

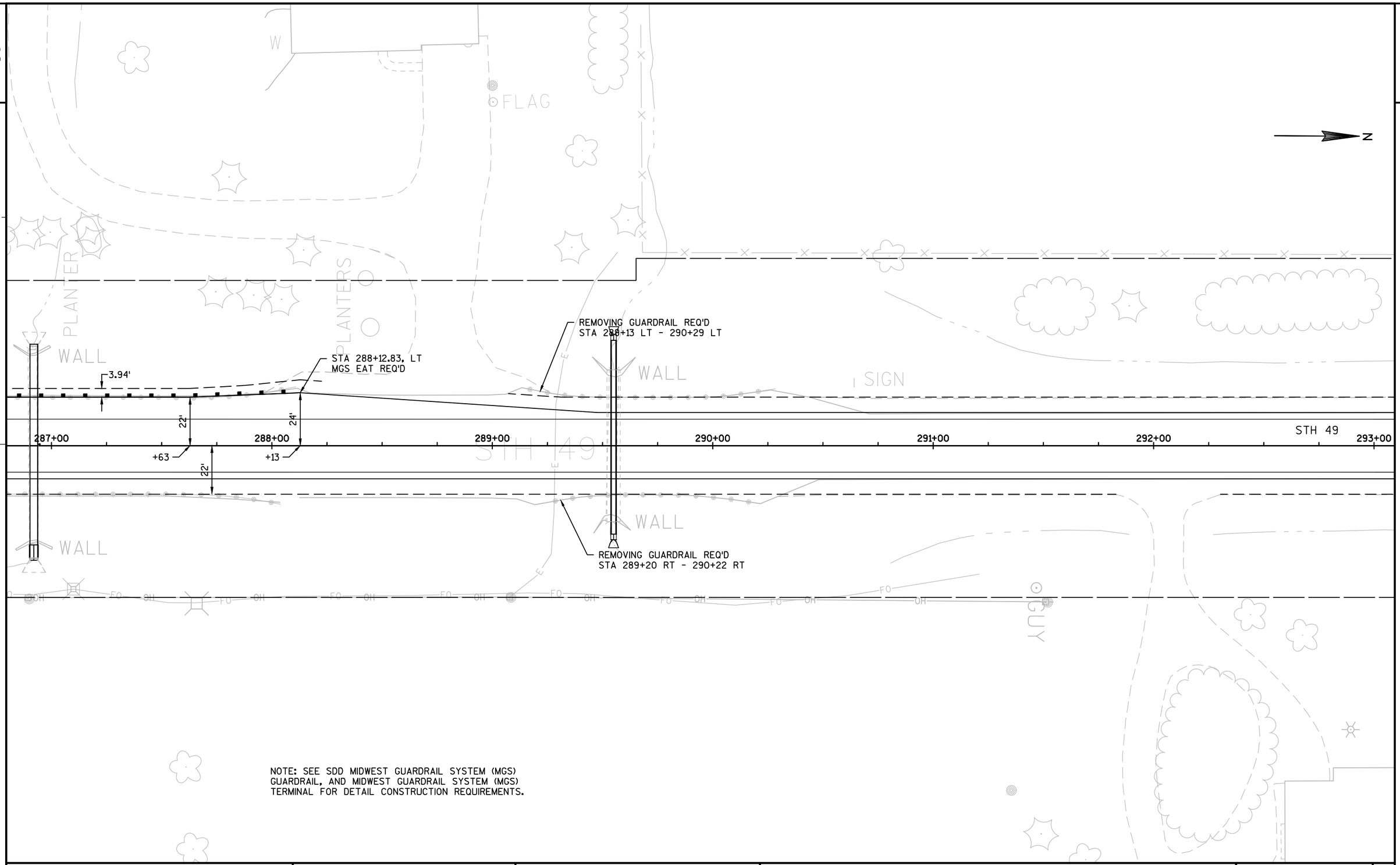


NOTE: SEE SDD "MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL," AND "MIDWEST GUARDRAIL SYSTEM (MGS) TERMINAL" FOR DETAIL CONSTRUCTION REQUIREMENTS.

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	GUARDRAIL DETAIL	SHEET	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\021101_BG.DWG PLOT DATE : 4/10/2018 11:37 AM PLOT BY : STONE, JAY E PLOT NAME : PLOT SCALE : 1:40_XREF
WISDOT/CADDS SHEET 42

2



NOTE: SEE SDD MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL, AND MIDWEST GUARDRAIL SYSTEM (MGS) TERMINAL FOR DETAIL CONSTRUCTION REQUIREMENTS.

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	GUARDRAIL DETAIL	SHEET 33	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\021101_BG.DWG PLOT DATE : 4/10/2018 11:37 AM PLOT BY : STONE, JAY E PLOT NAME : PLOT SCALE : 1:40_XREF

2

RUINS

N

GUARDRAIL MOW STRIP EMULSIFIED ASPHALT REQ'D 4' WIDE

BEGIN LONG POSTS LEFT
STA 300+00 LT
(7' OPTION)

344' MGS POST #9 - POST #9

STA 299+48.00, LT
MGS EAT REQ'D

REMOVING GUARDRAIL REQ'D
STA 300+20 LT - 302+74 LT

3.94'

END LONG POSTS LEFT
STA 302+25 LT
(7' OPTION)

STA 303+91.75, LT
MGS EAT REQ'D

24'
22'
22'
24'

299+00 +13 +48 +63 300+00 +98 301+00 STH 49 302+00 303+00 +42 +56 304+00 +06 +92 305+00

24'
22'
22'
24'

BEGIN LONG POSTS RIGHT
STA 300+50 RT
(7' OPTION)

3.94'

REMOVING GUARDRAIL REQ'D
STA 300+22 RT - 303+25 RT

394' MGS POST #9 - POST #9

END LONG POSTS RIGHT
STA 303+00 RT
(7' OPTION)

STA 304+06.25, RT
MGS EAT REQ'D

STA 299+12.50, RT
MGS EAT REQ'D

GUARDRAIL MOW STRIP EMULSIFIED ASPHALT REQ'D 4' WIDE

NOTE: SEE SDD "MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL," AND "MIDWEST GUARDRAIL SYSTEM (MGS) TERMINAL" FOR DETAIL CONSTRUCTION REQUIREMENTS.

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	GUARDRAIL DETAIL	SHEET 34	E

NOTE: SEE SDD "SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)," "MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL," AND "MIDWEST GUARDRAIL SYSTEM (MGS) TERMINAL" FOR DETAIL CONSTRUCTION REQUIREMENTS.

N

STA 330+47.29, LT
MGS EAT REQ'D

REMOVING GUARDRAIL REQ'D
STA 331+21 LT - 13'K'+50 RT

238' MGS POST #9 - RADIUS

STA 332+00 LT BEGIN
BEGIN LONG POSTS LEFT
(7' OPTION)

3.94'

STA 333+35 LT END
LONG POSTS LEFT
(7' OPTION)

R38'
7 CRT POSTS

56'
MGS SHORT
RADIUS

MGS SHORT
RADIUS TERMINAL

14.5'
+48
14'
+52
28'
25' MGS
16'
+81
15.5'
+77
+02
17'
14+00'K'
17'
+06
25' MGS
17'
+31

MGS SHORT
RADIUS TERMINAL

28'
25' MGS

R58'
13 CRT POST

REMOVING GUARDRAIL REQ'D
STA 13'K'+47 LT - 341+50 LT

BEAM GUARD MATCH POINT
STA 336+00

STA 334+66 LT
BEGIN LONG POSTS LEFT
(7' OPTION)

93'
MGS SHORT
RADIUS

STA 335+50 LT
END LONG POSTS LEFT
(7' OPTION)

134' MGS RADIUS - MATCH POINT

3.94'

CTH V

34.5'
32.5'
32.5'
35.5'
38'

330+00 +12 +47
+62 331+00 +97
332+00
STH 49
333+00 +26
334+00 +12 +35
15+00'K'
PI: 15+00.00'K'
335+00 +66
336+00 +04

26'
24'
12'

STA 330+11.90, RT
MGS EAT REQ'D

REMOVING GUARDRAIL REQ'D
STA 331+14 RT - 16'K'+30 RT

250' MGS POST #9 - RADIUS

STA 332+00 RT
BEGIN LONG POSTS RIGHT
(7' OPTION)

3.94'

STA 333+12 RT
END LONG POSTS RIGHT
(7' OPTION)

96'
MGS SHORT
RADIUS

R57'
13 CRT POSTS

CTH V

17.5'
+88
16+00'K'
25' MGS
28'
16'
+41

MGS SHORT
RADIUS TERMINAL

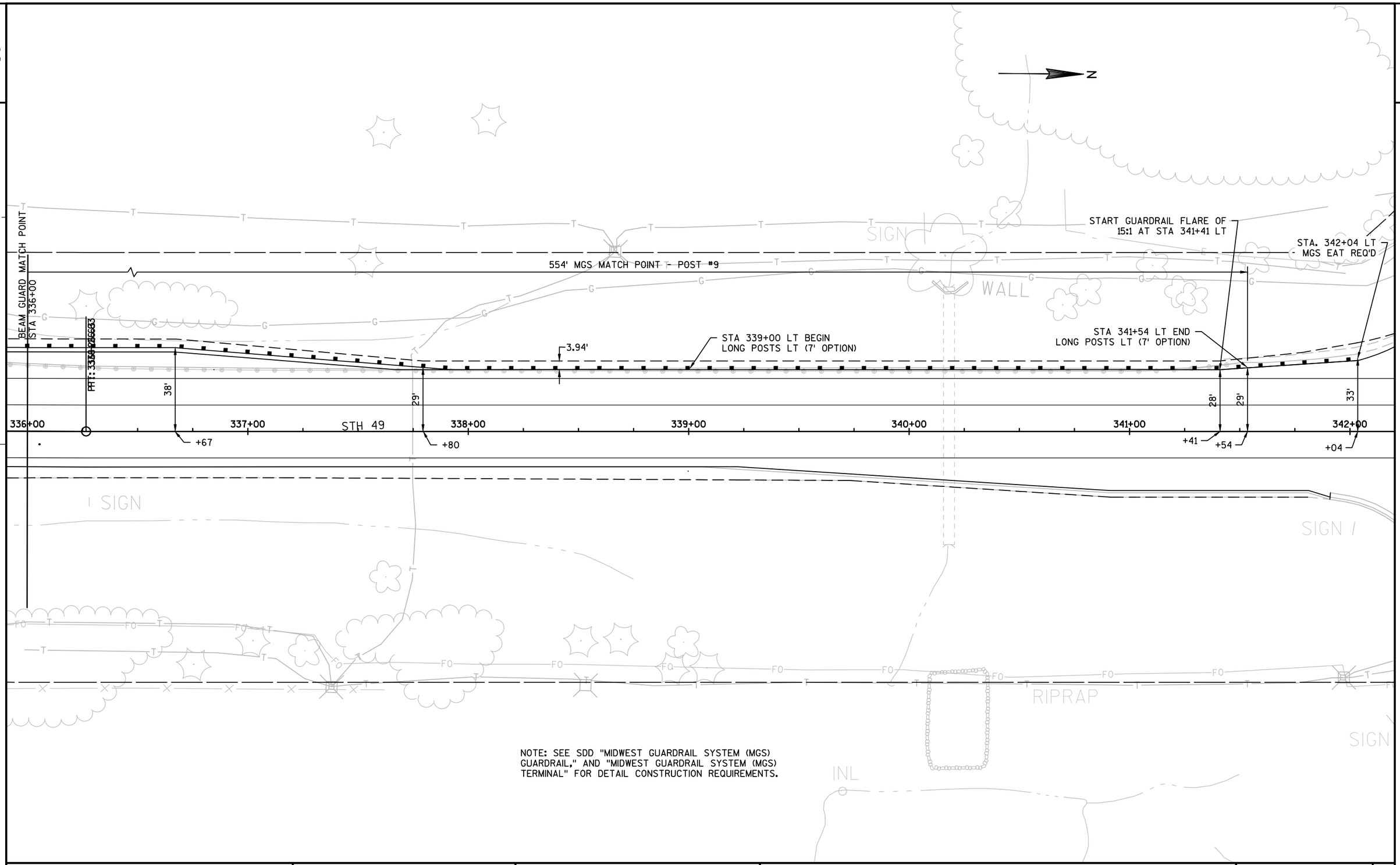
REMOVING GUARDRAIL REQ'D
STA 16'K'+38 LT - 335+42 RT

SIGN
SIGN

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	GUARDRAIL DETAIL	SHEET	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\021101_BG.DWG PLOT DATE : 4/10/2018 11:38 AM PLOT BY : STONE, JAY E PLOT NAME : PLOT SCALE : 1:40_XREF
WISDOT/CADDS SHEET 42

2



NOTE: SEE SDD "MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL," AND "MIDWEST GUARDRAIL SYSTEM (MGS) TERMINAL" FOR DETAIL CONSTRUCTION REQUIREMENTS.

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	GUARDRAIL DETAIL	SHEET 36	E

2

2

N

9+00'M

EP: 10+00.00'M'

STH 49

358+00 | +89 | 359+00 | 360+00 | 361+00 | 362+00 | 363+00 | 364+00

32' | 30' | 29' | 22' | 22'

+26 | +76 | +04 | +00

3.94'

STA 359+26.22, LT
MGS EAT REQ'D

END GUARDRAIL FLARE OF
25:1 AT STA 360+50 LT

REMOVING GUARDRAIL REQ'D
359+52 LT - 8'N'+37 RT

425' MGS POST #9 - MATCH POINT

STA 362+00 LT
BEGIN LONG POSTS LEFT
(7' OPTION)

BEAM GUARD MATCH POINT
STA 364+00

EXISTING
ASPHALT

358+69.8
43.30' RT

28' MGS
SHORT RADIUS
TERMINAL

358+70.4
68.30' RT

31' MGS SHORT RADIUS
R20', 3 CRT POSTS
MATCH GUARD RAIL TO
EXISTING DRIVEWAY
PAVEMENT

REMOVE FIXED OBJECTS 35'
FROM GUARD RAIL REQ'D
CLEAR AREA, CHIP MATERIAL,
LEAVE ON SITE USE CUT AND
STUMP CHEMICAL TREATMENT
ON BUCK THORN

GUARDRAIL MOW STRIP EMULSIFIED ASPHALT REQ'D 4' WIDE

REMOVING GUARDRAIL REQ'D
STA 358+83 RT - 365+50 RT

STA 362+00 RT
BEGIN LONG POSTS RIGHT
(7' OPTION)

510' MGS RADIUS - MATCH POINT

STA 364+00 RT
END LONG POSTS RIGHT
(7' OPTION)

NOTE: SEE SDD "SHORT RADIUS BEAM GUARD (MGS)
SHORT RADIUS TERMINAL (MGS)," "MIDWEST GUARDRAIL
SYSTEM (MGS) GUARDRAIL," AND "MIDWEST GUARDRAIL
SYSTEM (MGS) TERMINAL" FOR DETAIL CONSTRUCTION
REQUIREMENTS.

EXISTING
ASPHALT

EXTEND EXISTING 18"
1-18" X 8' CPCS
1-APRON ENDWALL
FOR CULVERT PIPE
SALVAGED 18 INCH

35'

MAINTAIN EXISTING
DRIVEWAY WIDTH

35'

3' | 3.94'

REMOVE FIXED OBJECTS 35'
FROM GUARD RAIL REQ'D
CLEAR AREA, CHIP MATERIAL,
LEAVE ON SITE USE CUT AND
STUMP CHEMICAL TREATMENT
ON BUCK THORN

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	GUARDRAIL DETAIL	SHEET 37	E

2

BEAM GUARD MATCH POINT
STA 364+00

236' MGS MATCH POINT - RADIUS

STA 366+36 LT
END LONG POSTS LEFT
(7' OPTION)

R36'
7 CRT POSTS

54' MGS
SHORT RADIUS

MGS SHORT
RADIUS TERMINAL

50' MGS

CTH A

N.00

PT: 8+14.85'N'

14'
+52
28'
14.5'
+80
15'
+15
15'
+30

N.00+6

REMOVING GUARDRAIL REQ'D
STA 8'N'+35 LT - 371+17 LT

N

364+00
365+00
366+00
367+00
368+00
369+00

+98
+35
+85
+35
+36

29'
27'
31'
36'
32.5'

EP: 10+00.00'N'
BP: 10+00.00'0'

STH 49

BEAM GUARD MATCH POINT
STA 364+00

184' MGS MATCH POINT - POST #9

START GUARDRAIL FLARE OF
25:1 AT STA 364+98 RT

GUARDRAIL MOW STRIP EMULSIFIED ASPHALT REQ'D 4' WIDE

STA 366+35.15, RT
MGS EAT REQ'D

11+00.0'

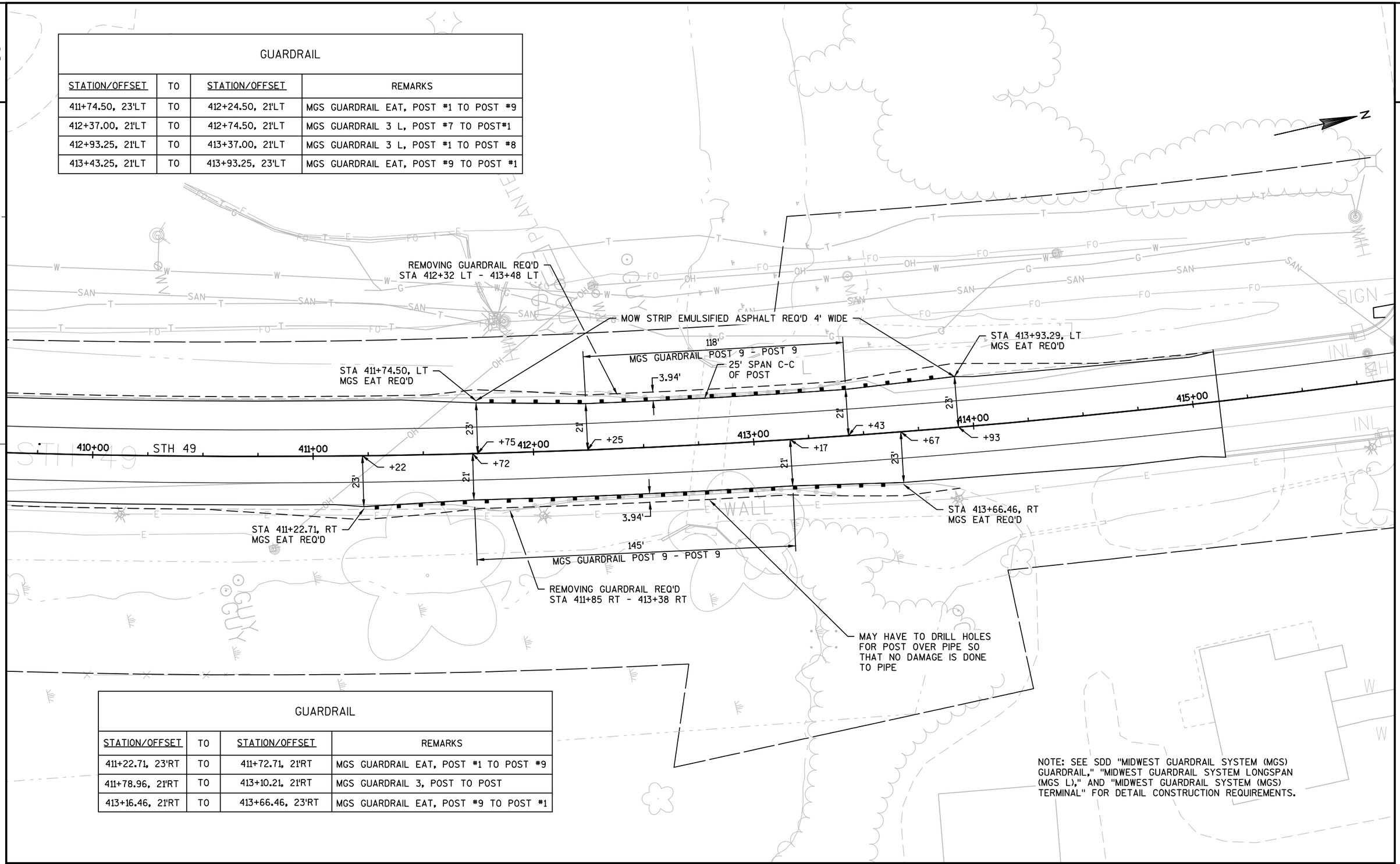
EAST A ROAD

SIGN

NOTE: SEE SDD "SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)," "MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL," AND "MIDWEST GUARDRAIL SYSTEM (MGS) TERMINAL" FOR DETAIL CONSTRUCTION REQUIREMENTS.

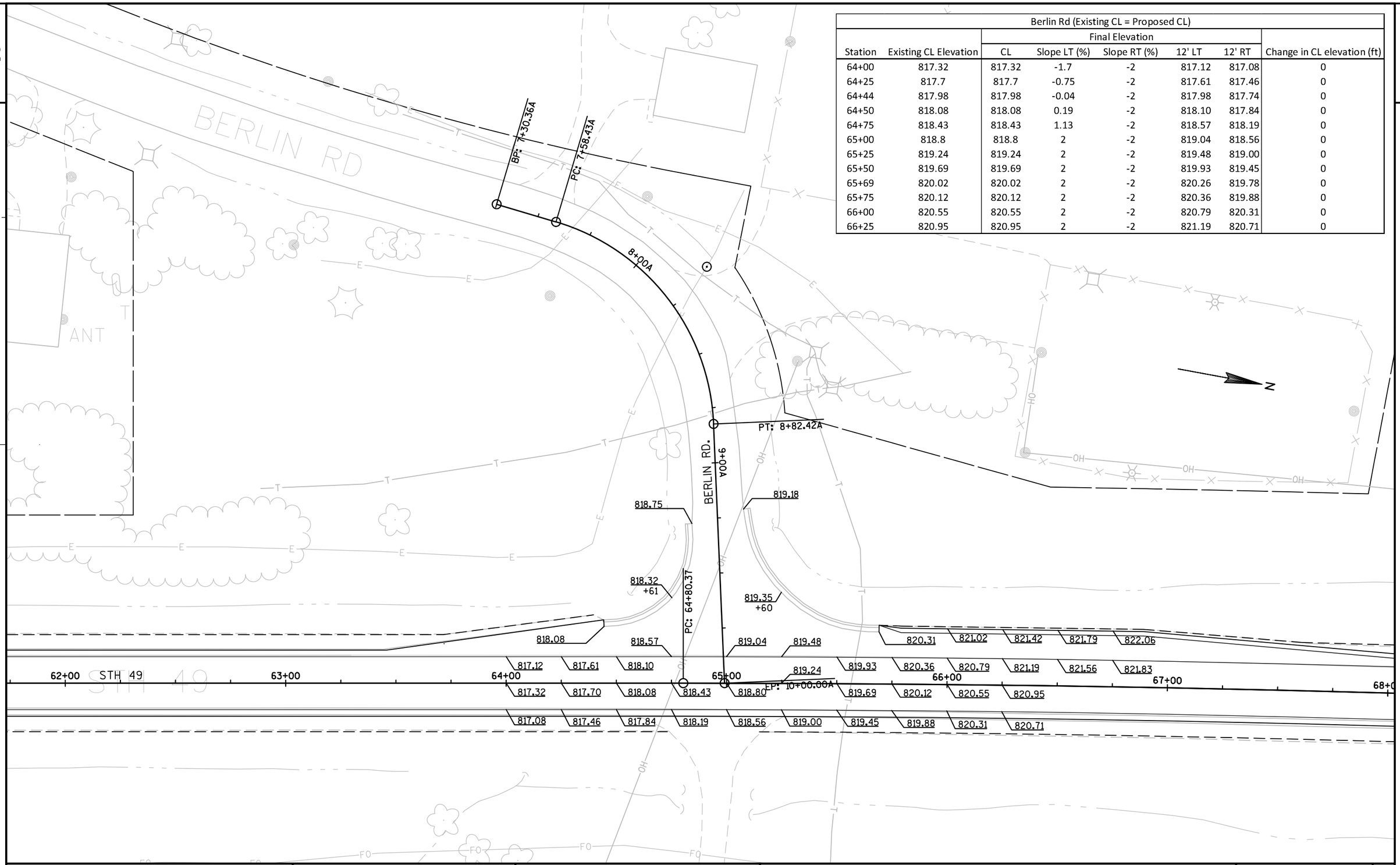
PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	GUARDRAIL DETAIL	SHEET 38	E

GUARDRAIL			
STATION/OFFSET	TO	STATION/OFFSET	REMARKS
411+74.50, 23'LT	TO	412+24.50, 21'LT	MGS GUARDRAIL EAT, POST #1 TO POST #9
412+37.00, 21'LT	TO	412+74.50, 21'LT	MGS GUARDRAIL 3 L, POST #7 TO POST#1
412+93.25, 21'LT	TO	413+37.00, 21'LT	MGS GUARDRAIL 3 L, POST #1 TO POST #8
413+43.25, 21'LT	TO	413+93.25, 23'LT	MGS GUARDRAIL EAT, POST #9 TO POST #1



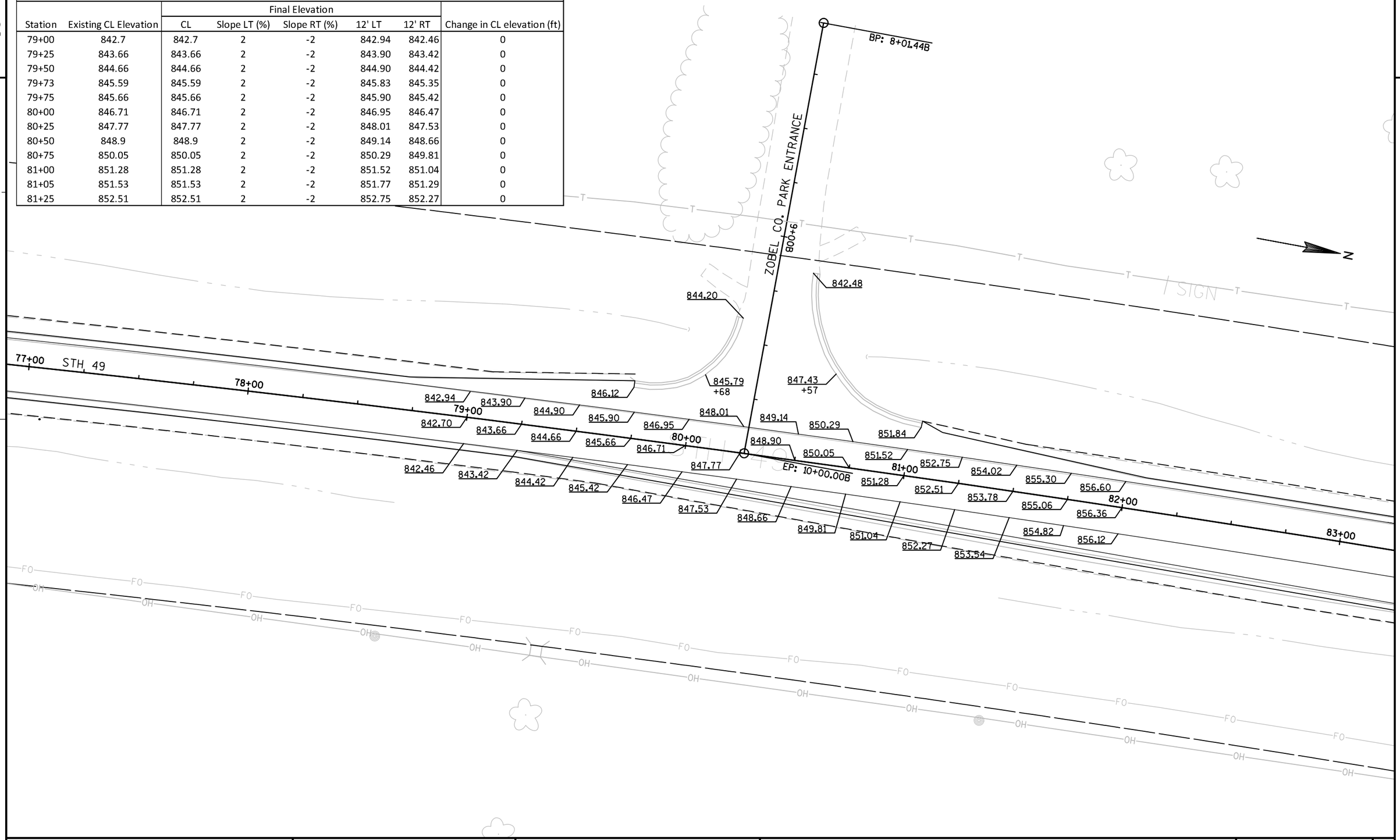
GUARDRAIL			
STATION/OFFSET	TO	STATION/OFFSET	REMARKS
411+22.71, 23'RT	TO	411+72.71, 21'RT	MGS GUARDRAIL EAT, POST #1 TO POST #9
411+78.96, 21'RT	TO	413+10.21, 21'RT	MGS GUARDRAIL 3, POST TO POST
413+16.46, 21'RT	TO	413+66.46, 23'RT	MGS GUARDRAIL EAT, POST #9 TO POST #1

Berlin Rd (Existing CL = Proposed CL)							
		Final Elevation					
Station	Existing CL Elevation	CL	Slope LT (%)	Slope RT (%)	12' LT	12' RT	Change in CL elevation (ft)
64+00	817.32	817.32	-1.7	-2	817.12	817.08	0
64+25	817.7	817.7	-0.75	-2	817.61	817.46	0
64+44	817.98	817.98	-0.04	-2	817.98	817.74	0
64+50	818.08	818.08	0.19	-2	818.10	817.84	0
64+75	818.43	818.43	1.13	-2	818.57	818.19	0
65+00	818.8	818.8	2	-2	819.04	818.56	0
65+25	819.24	819.24	2	-2	819.48	819.00	0
65+50	819.69	819.69	2	-2	819.93	819.45	0
65+69	820.02	820.02	2	-2	820.26	819.78	0
65+75	820.12	820.12	2	-2	820.36	819.88	0
66+00	820.55	820.55	2	-2	820.79	820.31	0
66+25	820.95	820.95	2	-2	821.19	820.71	0



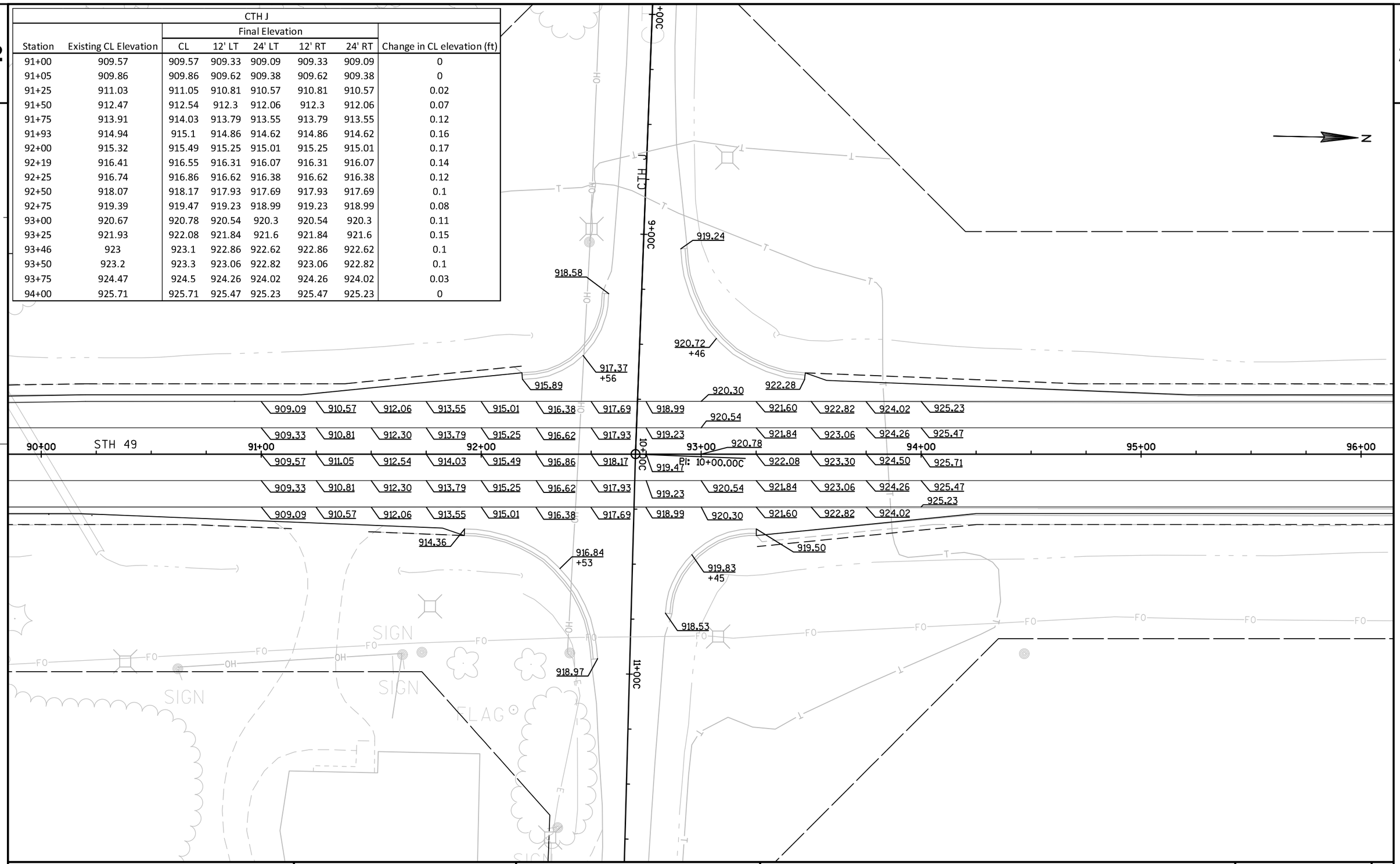
PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	INTERSECTION PAVEMENT GRADES ADJUSTMENT	SHEET 40	E

Zobel Co. Park Entrance (Existing CL = Proposed CL)							
		Final Elevation					
Station	Existing CL Elevation	CL	Slope LT (%)	Slope RT (%)	12' LT	12' RT	Change in CL elevation (ft)
79+00	842.7	842.7	2	-2	842.94	842.46	0
79+25	843.66	843.66	2	-2	843.90	843.42	0
79+50	844.66	844.66	2	-2	844.90	844.42	0
79+73	845.59	845.59	2	-2	845.83	845.35	0
79+75	845.66	845.66	2	-2	845.90	845.42	0
80+00	846.71	846.71	2	-2	846.95	846.47	0
80+25	847.77	847.77	2	-2	848.01	847.53	0
80+50	848.9	848.9	2	-2	849.14	848.66	0
80+75	850.05	850.05	2	-2	850.29	849.81	0
81+00	851.28	851.28	2	-2	851.52	851.04	0
81+05	851.53	851.53	2	-2	851.77	851.29	0
81+25	852.51	852.51	2	-2	852.75	852.27	0



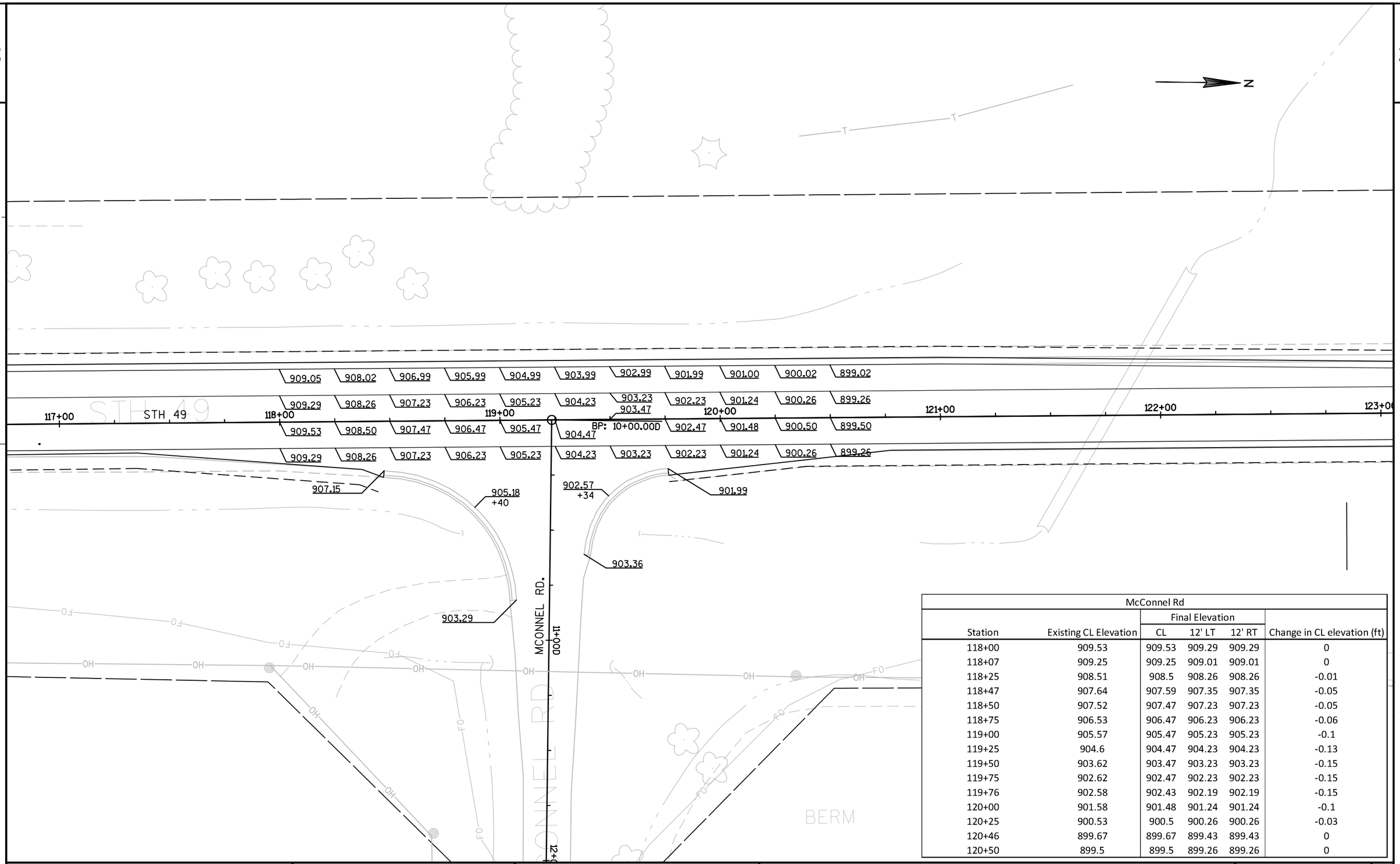
PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	INTERSECTION PAVEMENT GRADES ADJUSTMENT	SHEET 41	E

CTH J							
		Final Elevation					
Station	Existing CL Elevation	CL	12' LT	24' LT	12' RT	24' RT	Change in CL elevation (ft)
91+00	909.57	909.57	909.33	909.09	909.33	909.09	0
91+05	909.86	909.86	909.62	909.38	909.62	909.38	0
91+25	911.03	911.05	910.81	910.57	910.81	910.57	0.02
91+50	912.47	912.54	912.3	912.06	912.3	912.06	0.07
91+75	913.91	914.03	913.79	913.55	913.79	913.55	0.12
91+93	914.94	915.1	914.86	914.62	914.86	914.62	0.16
92+00	915.32	915.49	915.25	915.01	915.25	915.01	0.17
92+19	916.41	916.55	916.31	916.07	916.31	916.07	0.14
92+25	916.74	916.86	916.62	916.38	916.62	916.38	0.12
92+50	918.07	918.17	917.93	917.69	917.93	917.69	0.1
92+75	919.39	919.47	919.23	918.99	919.23	918.99	0.08
93+00	920.67	920.78	920.54	920.3	920.54	920.3	0.11
93+25	921.93	922.08	921.84	921.6	921.84	921.6	0.15
93+46	923	923.1	922.86	922.62	922.86	922.62	0.1
93+50	923.2	923.3	923.06	922.82	923.06	922.82	0.1
93+75	924.47	924.5	924.26	924.02	924.26	924.02	0.03
94+00	925.71	925.71	925.47	925.23	925.47	925.23	0



PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	INTERSECTION PAVEMENT GRADES ADJUSTMENT	SHEET 42	E

2

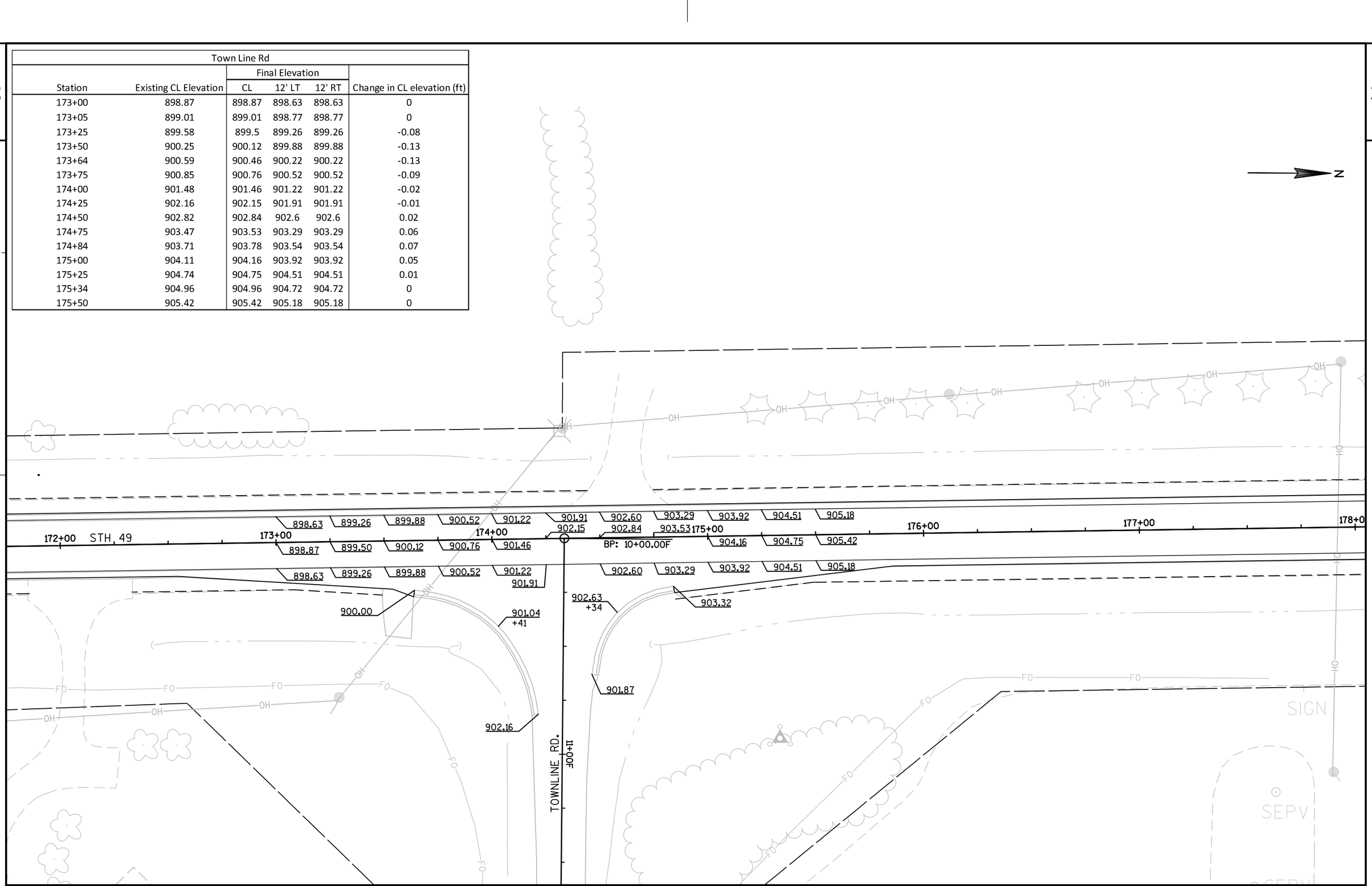


McConnel Rd					
		Final Elevation			
Station	Existing CL Elevation	CL	12' LT	12' RT	Change in CL elevation (ft)
118+00	909.53	909.53	909.29	909.29	0
118+07	909.25	909.25	909.01	909.01	0
118+25	908.51	908.5	908.26	908.26	-0.01
118+47	907.64	907.59	907.35	907.35	-0.05
118+50	907.52	907.47	907.23	907.23	-0.05
118+75	906.53	906.47	906.23	906.23	-0.06
119+00	905.57	905.47	905.23	905.23	-0.1
119+25	904.6	904.47	904.23	904.23	-0.13
119+50	903.62	903.47	903.23	903.23	-0.15
119+75	902.62	902.47	902.23	902.23	-0.15
119+76	902.58	902.43	902.19	902.19	-0.15
120+00	901.58	901.48	901.24	901.24	-0.1
120+25	900.53	900.5	900.26	900.26	-0.03
120+46	899.67	899.67	899.43	899.43	0
120+50	899.5	899.5	899.26	899.26	0

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	INTERSECTION PAVEMENT GRADES ADJUSTMENT	SHEET 43	E

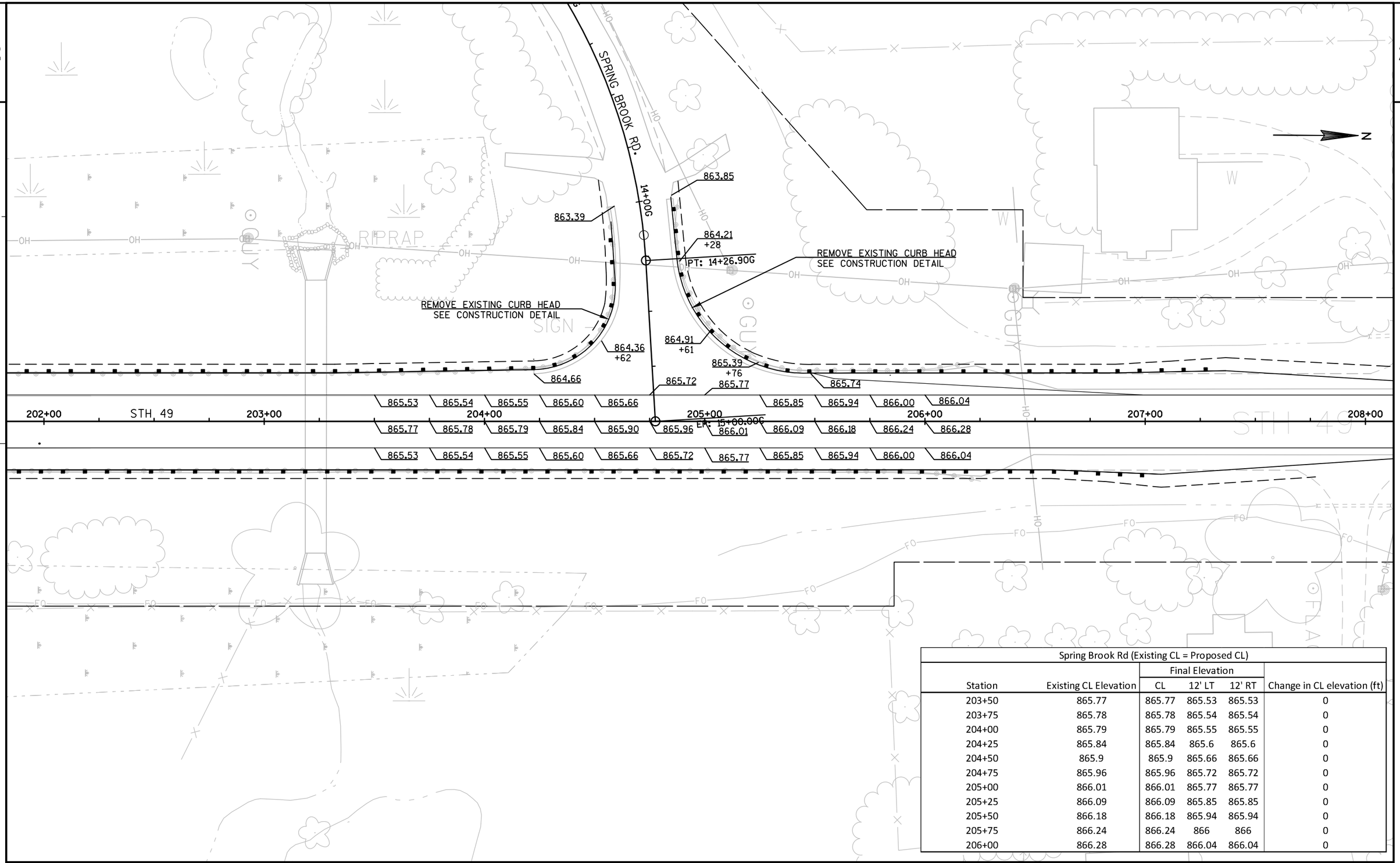
FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\021102_ID .DWG PLOT DATE : 4/10/2018 11:41 AM PLOT BY : STONE, JAY E PLOT NAME : PLOT SCALE : 1:40_XREF

Town Line Rd					
		Final Elevation			
Station	Existing CL Elevation	CL	12' LT	12' RT	Change in CL elevation (ft)
173+00	898.87	898.87	898.63	898.63	0
173+05	899.01	899.01	898.77	898.77	0
173+25	899.58	899.5	899.26	899.26	-0.08
173+50	900.25	900.12	899.88	899.88	-0.13
173+64	900.59	900.46	900.22	900.22	-0.13
173+75	900.85	900.76	900.52	900.52	-0.09
174+00	901.48	901.46	901.22	901.22	-0.02
174+25	902.16	902.15	901.91	901.91	-0.01
174+50	902.82	902.84	902.6	902.6	0.02
174+75	903.47	903.53	903.29	903.29	0.06
174+84	903.71	903.78	903.54	903.54	0.07
175+00	904.11	904.16	903.92	903.92	0.05
175+25	904.74	904.75	904.51	904.51	0.01
175+34	904.96	904.96	904.72	904.72	0
175+50	905.42	905.42	905.18	905.18	0

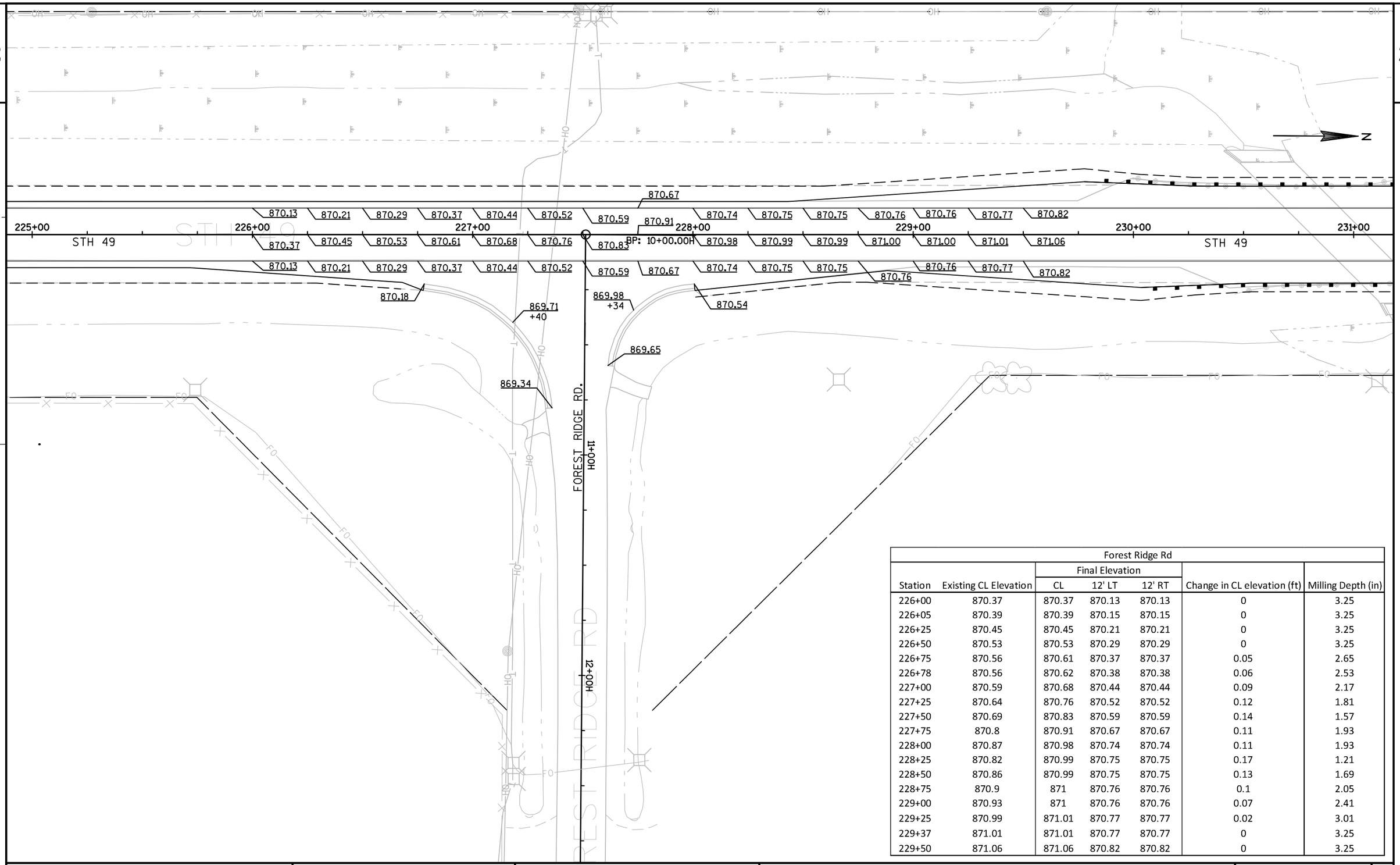


PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	INTERSECTION PAVEMENT GRADES ADJUSTMENT	SHEET 44	E

2



Spring Brook Rd (Existing CL = Proposed CL)					
		Final Elevation			
Station	Existing CL Elevation	CL	12' LT	12' RT	Change in CL elevation (ft)
203+50	865.77	865.77	865.53	865.53	0
203+75	865.78	865.78	865.54	865.54	0
204+00	865.79	865.79	865.55	865.55	0
204+25	865.84	865.84	865.6	865.6	0
204+50	865.9	865.9	865.66	865.66	0
204+75	865.96	865.96	865.72	865.72	0
205+00	866.01	866.01	865.77	865.77	0
205+25	866.09	866.09	865.85	865.85	0
205+50	866.18	866.18	865.94	865.94	0
205+75	866.24	866.24	866	866	0
206+00	866.28	866.28	866.04	866.04	0

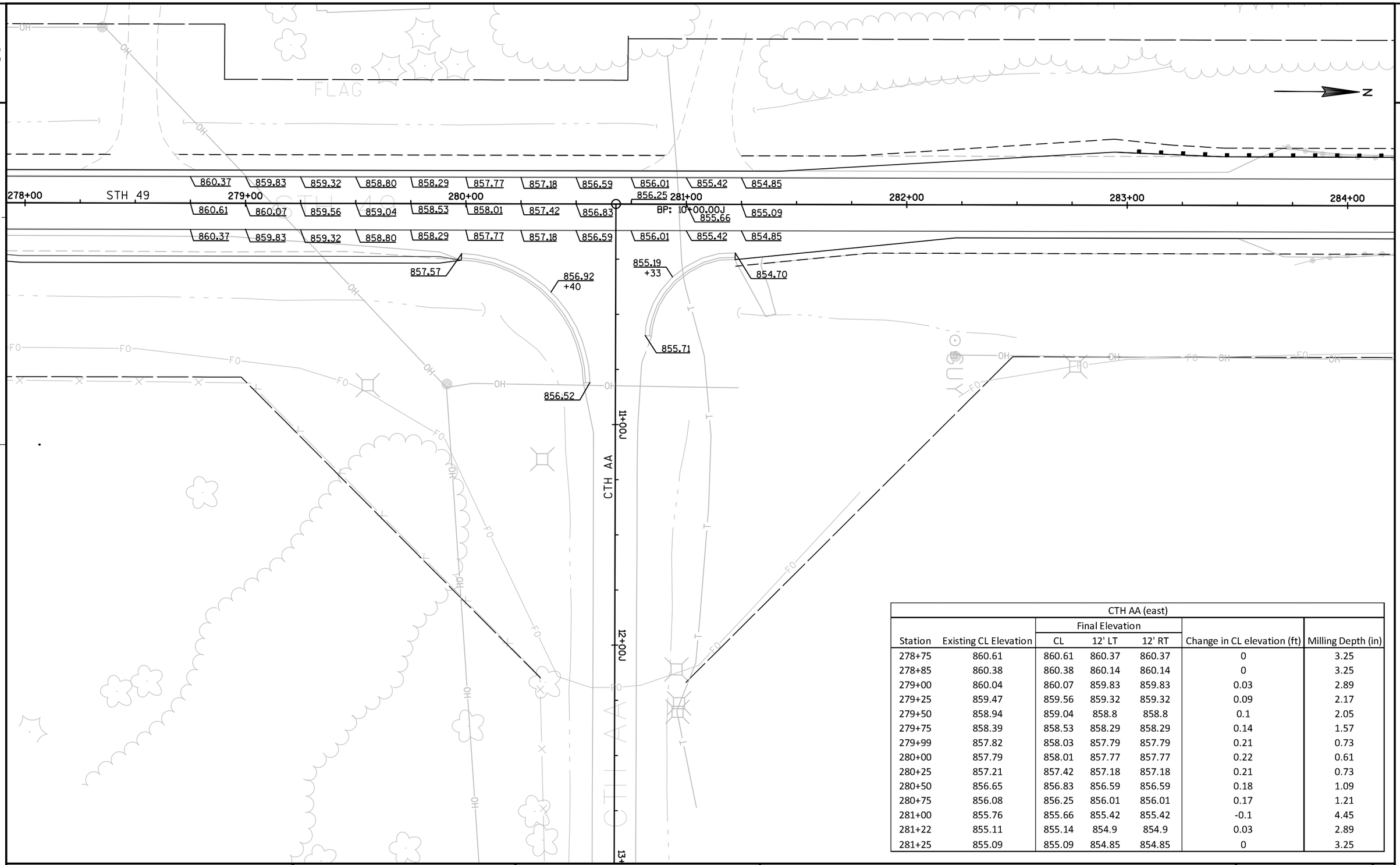


Forest Ridge Rd						
		Final Elevation				
Station	Existing CL Elevation	CL	12' LT	12' RT	Change in CL elevation (ft)	Milling Depth (in)
226+00	870.37	870.37	870.13	870.13	0	3.25
226+05	870.39	870.39	870.15	870.15	0	3.25
226+25	870.45	870.45	870.21	870.21	0	3.25
226+50	870.53	870.53	870.29	870.29	0	3.25
226+75	870.56	870.61	870.37	870.37	0.05	2.65
226+78	870.56	870.62	870.38	870.38	0.06	2.53
227+00	870.59	870.68	870.44	870.44	0.09	2.17
227+25	870.64	870.76	870.52	870.52	0.12	1.81
227+50	870.69	870.83	870.59	870.59	0.14	1.57
227+75	870.8	870.91	870.67	870.67	0.11	1.93
228+00	870.87	870.98	870.74	870.74	0.11	1.93
228+25	870.82	870.99	870.75	870.75	0.17	1.21
228+50	870.86	870.99	870.75	870.75	0.13	1.69
228+75	870.9	871	870.76	870.76	0.1	2.05
229+00	870.93	871	870.76	870.76	0.07	2.41
229+25	870.99	871.01	870.77	870.77	0.02	3.01
229+37	871.01	871.01	870.77	870.77	0	3.25
229+50	871.06	871.06	870.82	870.82	0	3.25

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	INTERSECTION PAVEMENT GRADES ADJUSTMENT	SHEET 46	E

CTH AA (west) (Existing CL = Proposed CL)					
		Final Elevation			
Station	Existing CL Elevation	CL	12' LT	12' RT	Change in CL elevation (ft)
253+00	897.46	897.46	897.22	897.22	0
253+25	897.73	897.73	897.49	897.49	0
253+50	898.01	898.01	897.77	897.77	0
253+75	898.29	898.29	898.05	898.05	0
254+00	898.56	898.56	898.32	898.32	0
254+25	898.8	898.8	898.56	898.56	0
254+50	899	899	898.76	898.76	0
254+75	899.15	899.15	898.91	898.91	0
255+00	899.26	899.26	899.02	899.02	0
255+25	899.32	899.32	899.08	899.08	0
255+50	899.34	899.34	899.1	899.1	0

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	INTERSECTION PAVEMENT GRADES ADJUSTMENT	SHEET 47	E



CTH AA (east)						
		Final Elevation				
Station	Existing CL Elevation	CL	12' LT	12' RT	Change in CL elevation (ft)	Milling Depth (in)
278+75	860.61	860.61	860.37	860.37	0	3.25
278+85	860.38	860.38	860.14	860.14	0	3.25
279+00	860.04	860.07	859.83	859.83	0.03	2.89
279+25	859.47	859.56	859.32	859.32	0.09	2.17
279+50	858.94	859.04	858.8	858.8	0.1	2.05
279+75	858.39	858.53	858.29	858.29	0.14	1.57
279+99	857.82	858.03	857.79	857.79	0.21	0.73
280+00	857.79	858.01	857.77	857.77	0.22	0.61
280+25	857.21	857.42	857.18	857.18	0.21	0.73
280+50	856.65	856.83	856.59	856.59	0.18	1.09
280+75	856.08	856.25	856.01	856.01	0.17	1.21
281+00	855.76	855.66	855.42	855.42	-0.1	4.45
281+22	855.11	855.14	854.9	854.9	0.03	2.89
281+25	855.09	855.09	854.85	854.85	0	3.25

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	INTERSECTION PAVEMENT GRADES ADJUSTMENT	SHEET 48	E

2

2

N

899.87
STA 14+05 15' LT

899.99
STA 14+04.3 15' LT

Y = 308146.546
X = 572626.869

R60'

CONCRETE CURB AND GUTTER 30-INCH TYPE D REQ'D

REMOVE EXISTING CURB AND GUTTER REQ'D

STA 334+66.5 36' LT

REMOVE EXISTING CURB HEAD
SEE CONSTRUCTION DETAIL

R37'

STA 333+35 33.5' LT

901.51
14+52
24' LT

901.95

901.42
14+48
37.25' RT

902.28

PC: 330+99.98

PT: 336+26.63

902.85 902.93 902.78 902.69 902.59 902.50 902.39 902.63 902.74 902.83 902.93 903.02 903.09 903.17 903.24 903.31

902.47 902.52 902.58 902.87 902.98 903.07 903.17 903.26 903.33 903.41 903.48 903.55

902.71 902.76 902.82 903.00 903.06 903.11 903.22 903.31 903.41 903.50 903.57 903.65 903.72 903.79

902.95 903.24 903.30 903.35 903.46 903.55 903.65 903.74 903.74 904.19 903.13 903.62

902.35 902.41 902.65 903.13 903.19

902.12 902.14 902.16 902.22 902.29 902.36 902.38 902.40 902.46 902.53 902.60 902.62 902.64 902.70 902.77 902.84 902.86 902.88 902.94 903.01

902.59 902.83 903.07

331+00 332+00 333+00 334+00 335+00 336+00 337+00

STH 49

CTH V

14+00K 15+00K

PI: 15+00.00K

902.89

903.57

903.14

903.22
+37

902.96
+41

EXISTING 36-INCH CURB AND GUTTER TO REMAIN

REMOVE AND REPLACE
ASPHALTIC FLUME

REMOVE EXISTING CURB HEAD
SEE CONSTRUCTION DETAIL

902.46

902.59

SIGN

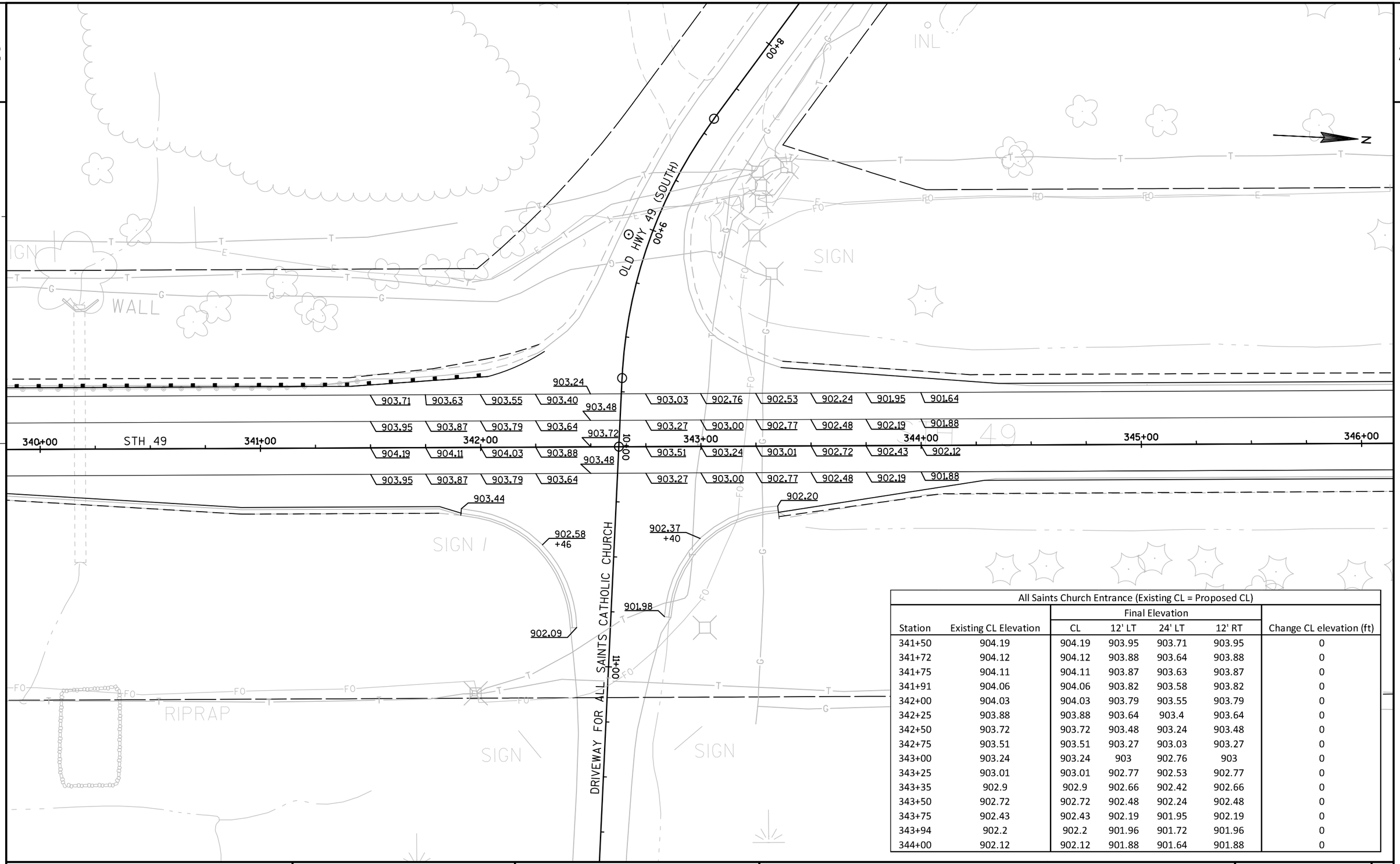
GUY

CTH V (Existing CL = Proposed CL)

Station	Existing CL Elevation	Final Elevation CL	Slope LT (%)	Slope RT (%)	24' LT	12' RT	Change in CL elevation (ft)
332+50	902.6	902.6	-2	2	902.12	902.84	0
332+75	902.62	902.62	-2	2	902.14	902.86	0
333+00	902.64	902.64	-2	2	902.16	902.88	0
333+12	902.67	902.67	-2	2	902.19	902.91	0
333+25	902.7	902.7	-2	2	902.22	902.94	0
333+35	902.73	902.73	-2	2	902.25	902.97	0
333+50	902.77	902.77	-2	2	902.29	903.01	0
333+75	902.83	902.83	-2	2	902.35	903.07	0
334+00	902.89	902.89	-2	2	902.41	903.13	0
334+25	902.95	902.95	-2	2	902.47	903.19	0
334+41	902.98	902.98	-2	2	902.50	903.22	0
334+50	903	903	-2	2	902.52	903.24	0
334+66	903.04	903.04	-2	2	902.56	903.28	0
334+75	903.06	903.06	-2	2	902.58	903.30	0
335+00	903.11	903.11	-2	2	902.63	903.35	0

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	INTERSECTION PAVEMENT GRADES ADJUSTMENT	SHEET 49	E

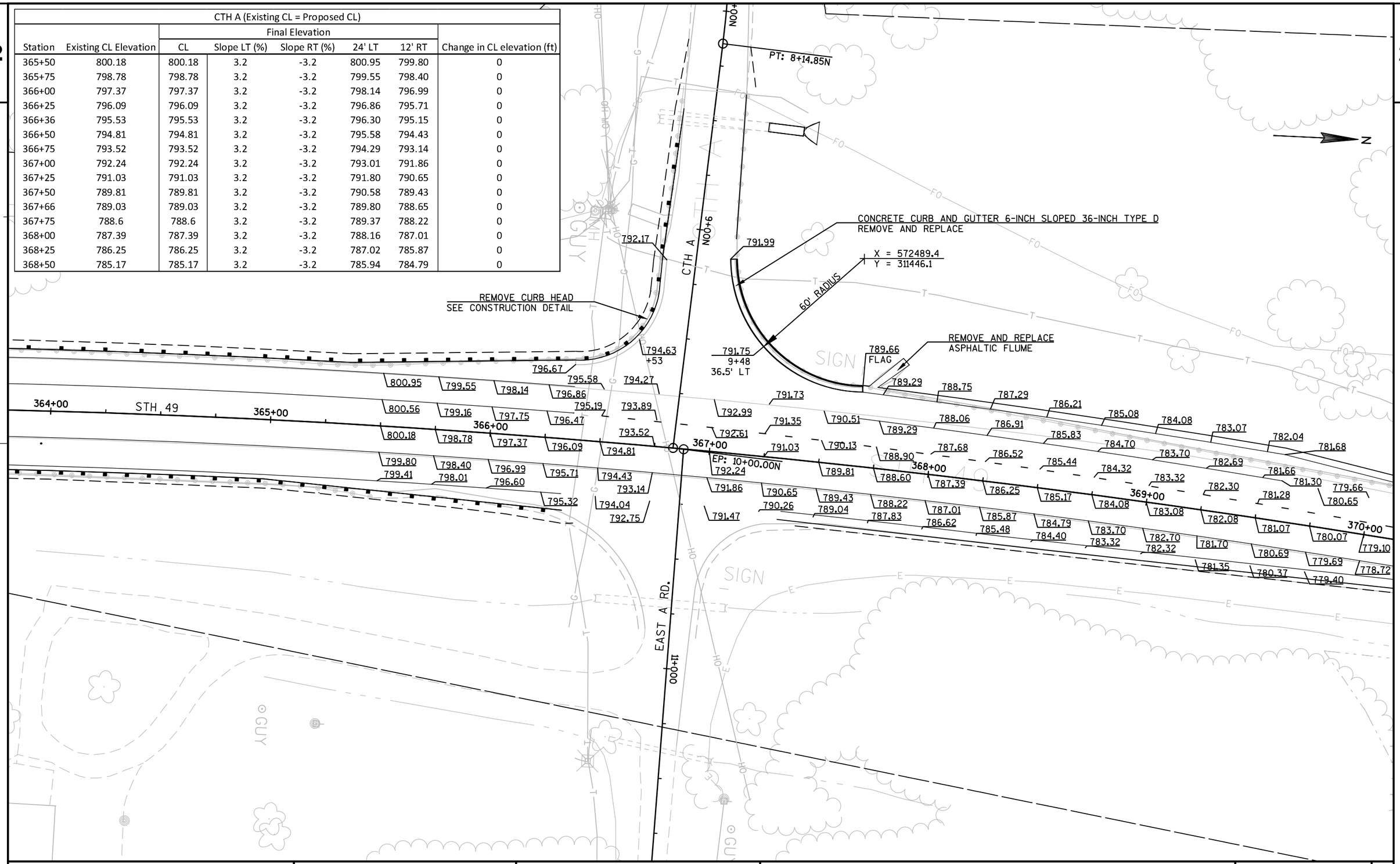
2



All Saints Church Entrance (Existing CL = Proposed CL)						
		Final Elevation				
Station	Existing CL Elevation	CL	12' LT	24' LT	12' RT	Change CL elevation (ft)
341+50	904.19	904.19	903.95	903.71	903.95	0
341+72	904.12	904.12	903.88	903.64	903.88	0
341+75	904.11	904.11	903.87	903.63	903.87	0
341+91	904.06	904.06	903.82	903.58	903.82	0
342+00	904.03	904.03	903.79	903.55	903.79	0
342+25	903.88	903.88	903.64	903.4	903.64	0
342+50	903.72	903.72	903.48	903.24	903.48	0
342+75	903.51	903.51	903.27	903.03	903.27	0
343+00	903.24	903.24	903	902.76	903	0
343+25	903.01	903.01	902.77	902.53	902.77	0
343+35	902.9	902.9	902.66	902.42	902.66	0
343+50	902.72	902.72	902.48	902.24	902.48	0
343+75	902.43	902.43	902.19	901.95	902.19	0
343+94	902.2	902.2	901.96	901.72	901.96	0
344+00	902.12	902.12	901.88	901.64	901.88	0

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	INTERSECTION PAVEMENT GRADES ADJUSTMENT	SHEET 50	E

CTH A (Existing CL = Proposed CL)							
		Final Elevation					
Station	Existing CL Elevation	CL	Slope LT (%)	Slope RT (%)	24' LT	12' RT	Change in CL elevation (ft)
365+50	800.18	800.18	3.2	-3.2	800.95	799.80	0
365+75	798.78	798.78	3.2	-3.2	799.55	798.40	0
366+00	797.37	797.37	3.2	-3.2	798.14	796.99	0
366+25	796.09	796.09	3.2	-3.2	796.86	795.71	0
366+36	795.53	795.53	3.2	-3.2	796.30	795.15	0
366+50	794.81	794.81	3.2	-3.2	795.58	794.43	0
366+75	793.52	793.52	3.2	-3.2	794.29	793.14	0
367+00	792.24	792.24	3.2	-3.2	793.01	791.86	0
367+25	791.03	791.03	3.2	-3.2	791.80	790.65	0
367+50	789.81	789.81	3.2	-3.2	790.58	789.43	0
367+66	789.03	789.03	3.2	-3.2	789.80	788.65	0
367+75	788.6	788.6	3.2	-3.2	789.37	788.22	0
368+00	787.39	787.39	3.2	-3.2	788.16	787.01	0
368+25	786.25	786.25	3.2	-3.2	787.02	785.87	0
368+50	785.17	785.17	3.2	-3.2	785.94	784.79	0



2

2

LEGEND

1.50" HMA PAVEMENT 5MT 58-28S UPPER
2.50" HMA PAVEMENT 3MT 58-28S LOWER

MILL 1.75"
OVERLAY WITH 1.75" HMA 5MT 58-28S

REMOVE EXISTING PAVEMENT
CONSTRUCT WITH
1.50" HMA 5MT 58-28S
2.50" HMA 3MT 58-28S
2.25" HMA 3MT 58-28S

N

SIGN

CENTURY LINK

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

STH 49

12' 12' 12' 12'

3' 7' 3' 7' 3' 7' 3' 7'

BEGIN PROJECT STA. 35+00
SAW CUT, FULL DEPTH

STA. 35+00 - STA. 225+25
PULVERIZE AND RELAY

+20
GRAVEL
PE

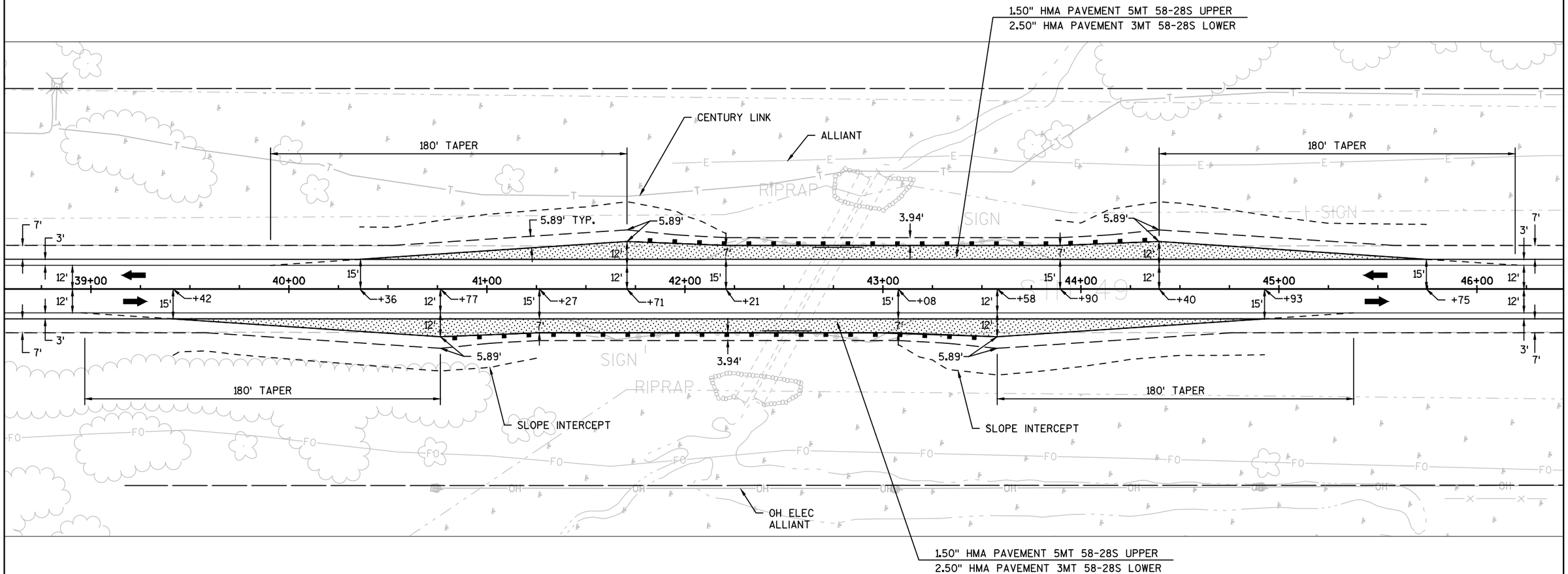
SIGN

FO FO FO

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - PD - (01)
PLOT DATE : 5/24/2018 8:12 AM
PLOT BY : STIMAC, CHRISTOPHER PLOT NAME : ---------- PLOT SCALE : **********
WISDOT/CADDS SHEET 42

2



PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET 53	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - PD - (02)

PLOT DATE : 5/24/2018 8:13 AM PLOT BY : STIMAC, CHRISTOPHER PLOT NAME : _____ PLOT SCALE : **********

2

N

1.50" HMA PAVEMENT 5MT 58-28S UPPER
2.50" HMA PAVEMENT 3MT 58-28S LOWER

CENTURY LINK

OH ELEC
ALLIANT

180' TAPER

180' TAPER

RIPRAP

5.89' TYP.

5.89'

3.94'

5.89'

7'

3'

12'

15'

7'

12'

46+00

47+00

+83

+94

48+00

+18

+29

49+00

+68

+79

50+00

+87

+97

51+00

+37

+47

52+00

+72

+82

53+00

STH 49

5.89'

3.94'

5.89'

180' TAPER

180' TAPER

RIPRAP

CENTURY LINK

OH ELEC
ALLIANT

1.50" HMA PAVEMENT 5MT 58-28S UPPER
2.50" HMA PAVEMENT 3MT 58-28S LOWER

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET 54	E

2

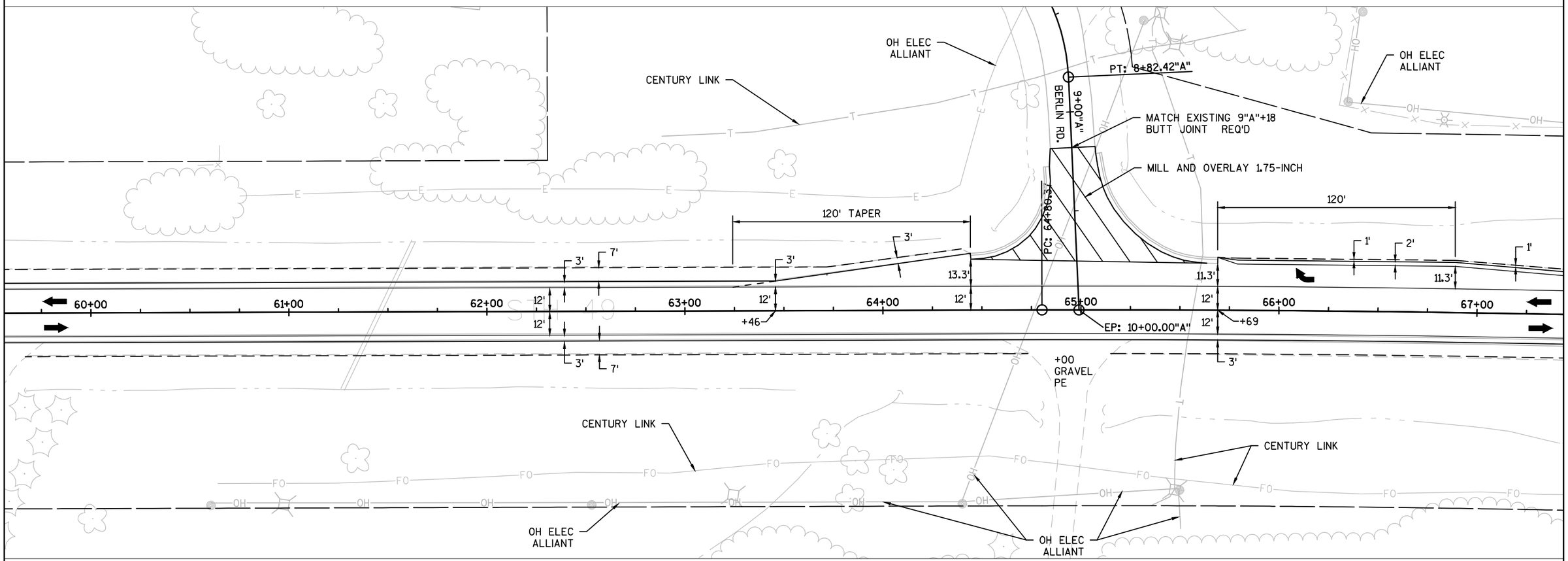
N

3'
7'
12'
53+00
54+00
55+00
56+00
57+00
58+00
59+00
60+00
+55
GRAVEL
PE
OH ELEC
ALLIANT

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET 55	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - PD - (04)
PLOT DATE : 5/24/2018 8:13 AM
PLOT BY : STIMAC, CHRISTOPHER PLOT NAME : ---------- PLOT SCALE : **********

2



PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET 56	E

2

2

N

OH ELEC ALLIANT
ELEC ATC

OH

OH

OH

OH

180 'TAPER

3'

1'

3'

7'

11.2

12'

67+00

+88

68+00

12'

69+00

+69

70+00

71+00

STH 49

72+00

73+00

12'

74+00

12'

12'

3'

7'

3'

7'

FO

FO

PROJECT NO:6210-00-72	HWY:STH 49	COUNTY:GREEN LAKE	PAVEMENT DETAIL	SHEET 57	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - PD - (06)

PLOT DATE : 5/24/2018 8:13 AM

PLOT BY : STIMAC, CHRISTOPHER PLOT NAME : _____ PLOT SCALE : **********

WISDOT/CADDS SHEET 42

2

N

ZOBEL COUNTY PARK ENTRANCE

CENTURY LINK

MATCH EXISTING 8"B"+75
BUTT JOINT REQ'D

9+00"B"

MILL AND OVERLAY 1.75-INCH

130' TAPER

+10
GRAVEL
FE

3'
7'
12'
12'
3'
7'

74+00
75+00
76+00
77+00
78+00
79+00
80+00
81+00

3'
3'
10.6'
12'
12'
+72
+24
+74

EP: 10+00.00"B"

3'
3'

NOTE: STRAIGHT LINE TANGENT FROM 79+24-86+24

700' TAPER CLIMBING LANE

CENTURY LINK

FO
OH

OH ELEC ALLIANT
ELEC ATC

STATION 79+24 TO 83+50

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET 58	E

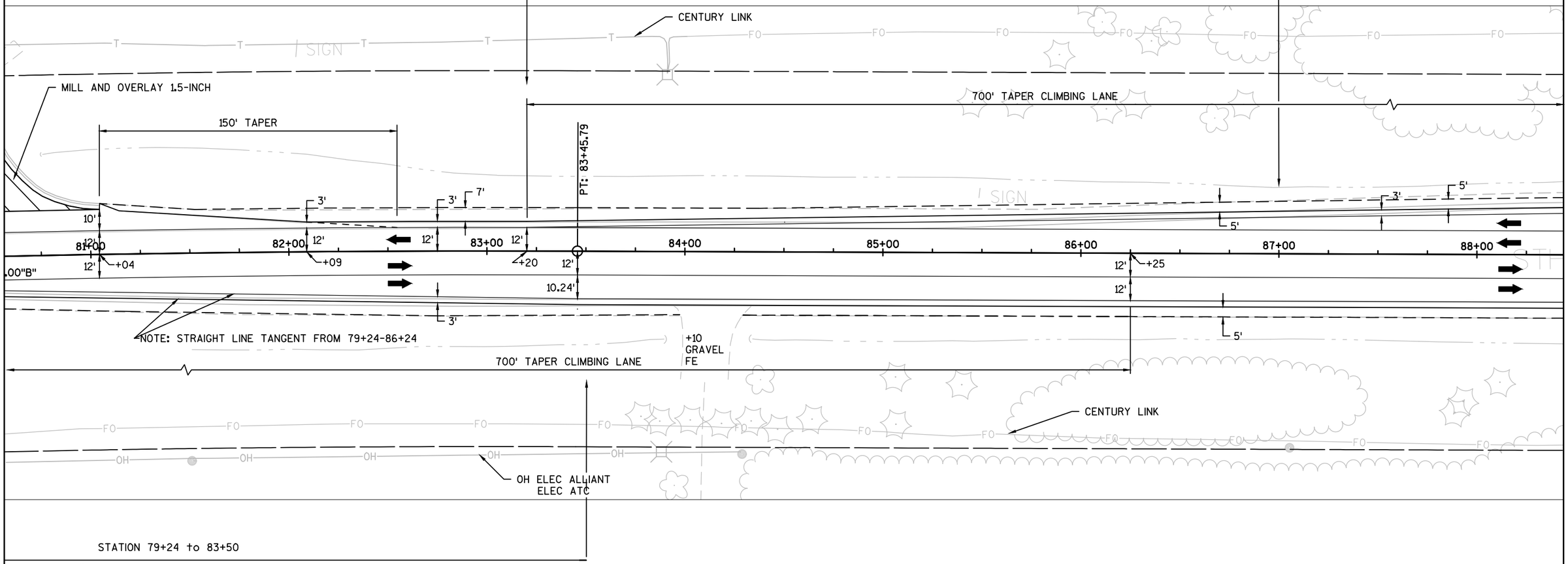
2

2

STATION 83+20 TO STATION 87+00

* REMOVE EXISTING SHOULDER MATERIAL TO DEPTH EQUAL TO ADJACENT PULVERIZE AND RELAY PAVEMENT FOR THIS AREA OF CLIMBING LANE TAPER. DO NOT WASTE MATERIAL IN DITCH OR ON FORESLOPE.
* PLACE ASPHALT MILLINGS A MIN OF 5" THICK FOR CLIMBING LANE TAPER AND SHOULDER AREA.
* PULVERIZE AND RELAY FOR CONSISTENT BASE.
* WORK AND MATERIAL INCLUDED UNDER ITEM PREPARE FOUNDATION FOR ASPHALTIC PAVING (PROJECT)

N

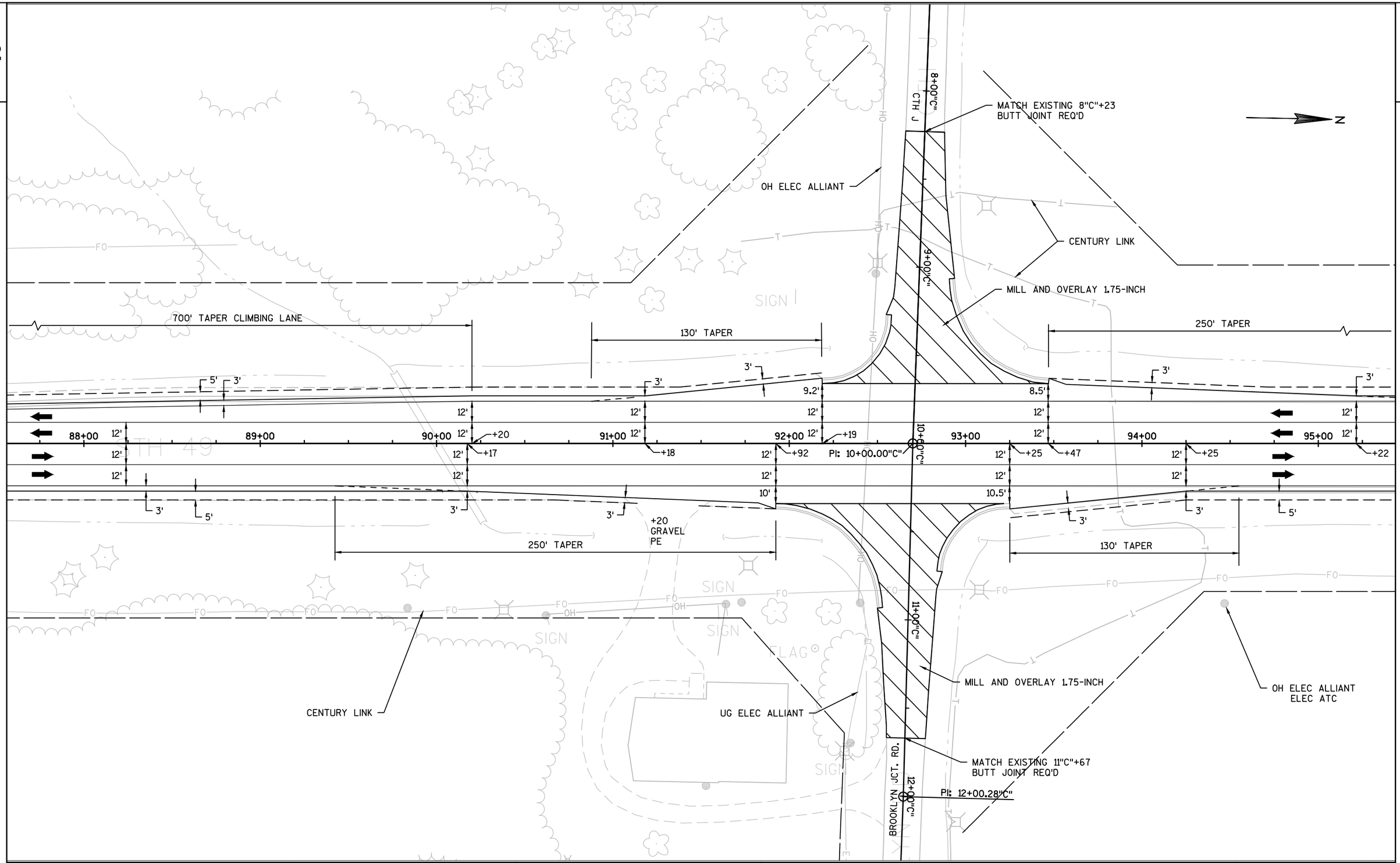


STATION 79+24 to 83+50

* REMOVE EXISTING ASPHALTIC SURFACE OUTSIDE OF CLIMBING LANE TAPER. APPROX DEPTH AFTER INITAL MILL 5". PAID WITH BID ITEM REMOVING ASPHALTIC SURFACE SY.
* PLACE AND COMPACT NEW 3/4" BAD TO MATCH EXISTING SHOULDER.

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET 59	E

2



PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET 60	E

2

N

250' TAPER

3' 3' 5'

12'

95+00 96+00 97+00 98+00 99+00 100+00 101+00 102+00

STH 49

12'

12'

12'

3' 5'

3' 5'

FO FO FO

OH ELEC ALLIANT
ELEC ATC

BERM

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET 61	E

2

N

+80
GRAVEL
FE

3'
5'
12'

102+00
103+00
104+00
105+00
106+00
107+00
108+00
109+00

+00

STH 49

+40
GRAVEL
PE

700' TAPER CLIMBING LANE

CENTURY LINK

FO

GUY

BERM

OH ELEC ALLIANT
ELEC ATC

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET 62	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - PD - (11)
PLOT DATE : 5/24/2018 8:14 AM
PLOT BY : STIMAC, CHRISTOPHER PLOT NAME : ---------- PLOT SCALE : **********
WISDOT/CADDS SHEET 42

2

N

3'
5'
12'
12'
+30
12'
12'
+00
12'
12'
3'
5'
3'
5'
3'
7'

109+00
110+00
111+00
112+00
113+00
114+00
115+00
116+00

700' TAPER CLIMBING LANE

CENTURY LINK

OH ELEC ALLIANT
ELEC ATC

FO
OH

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET 63	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - PD - (12)
PLOT DATE : 5/24/2018 8:14 AM
PLOT BY : STIMAC, CHRISTOPHER PLOT NAME : ---------- PLOT SCALE : **********
WISDOT/CADDS SHEET 42

2

N

700' TAPER CLIMBING LANE

3' 5' 12' 12' 12' 12' 12' 12' 12' 12' 5' 3'

116+00 117+00 118+00 +47 119+00 +76 120+00 121+00 122+00 123+00

+40 BP: 10+00.00"D" +77 +00

10' 10'

3' 7' 3' 5' 3' 3' 3' 3' 7'

150' TAPER 130' TAPER

CENTURY LINK

MILL AND OVERLAY 1.75-INCH

OH ELEC ATC

OH ELEC ALLIANT

MC CONNEL RD. 12+00.00"D"

MATCH EXISTING 11"D"+63
BUTT JOINT REQ'D

BERM

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET 64	E

2

N

+50
GRAVEL
PE

700' TAPER CLIMBING LANE

3'
5'
12'
12'
3'
7'

123+00
124+00
125+00
126+00
STH 49
127+00
128+00
+00
129+00
130+00

3'
7'
12'
12'
3'
7'

FO
FO
FO

CENTURY LINK

FO
FO
FO

OH

OH ELEC ALLIANT

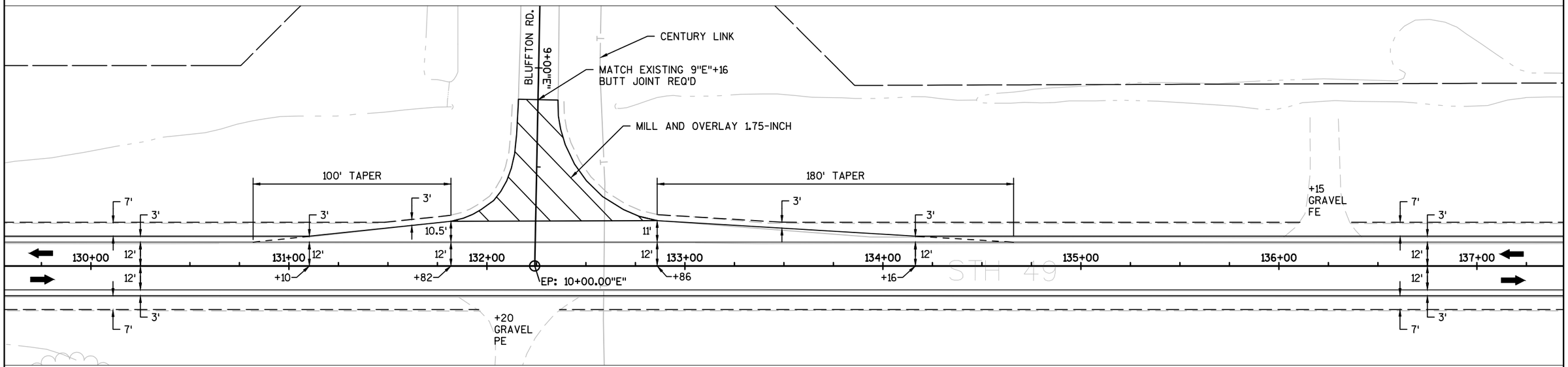
PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET 65	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - PD - (14)

PLOT DATE : 5/24/2018 8:14 AM

PLOT BY : STIMAC, CHRISTOPHER PLOT NAME : _____ PLOT SCALE : **********

2



PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET 66	E

2

N

1.50" HMA PAVEMENT 5MT 58-28S UPPER
2.50" HMA PAVEMENT 3MT 58-28S LOWER

180' TAPER

180'

5.89'

3.94'

3'

7'

12'

15'

137+00

138+00 +93

139+00 +73

140+00 +08

+28

+78

141+00 +58

+96

142+00 +64

+46

143+00 +14

+81

144+00 +49

180' TAPER

180' TAPER

CENTURY LINK

FO

OH

1.50" HMA PAVEMENT 5MT 58-28S UPPER
2.50" HMA PAVEMENT 3MT 58-28S LOWER

OH ELEC ALLIANT

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - PD - (16)

PLOT DATE : 5/24/2018 8:14 AM

PLOT BY : STIMAC, CHRISTOPHER PLOT NAME : _____ PLOT SCALE : **********

2

N

+15
GRAVEL
PE

3'
7'

144+00 145+00 146+00 147+00 148+00 149+00 150+00 151+00

12'
12'
12'
12'

3'
7'
3'
7'

+77
GRAVEL
FE

OH ELEC ALLIANT

PROJECT NO:6210-00-72	HWY:STH 49	COUNTY:GREEN LAKE	PAVEMENT DETAIL	SHEET	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - PD - (17)

PLOT DATE : 5/24/2018 8:14 AM PLOT BY : STIMAC, CHRISTOPHER PLOT NAME : ---------- PLOT SCALE : **********

2

N

WALL

3'
7'
12'
12'
3'
7'

151+00 152+00 153+00 154+00 155+00 156+00 157+00 158+00

STH 49

+69
ASPHALT
PE

WALL

OH OH OH

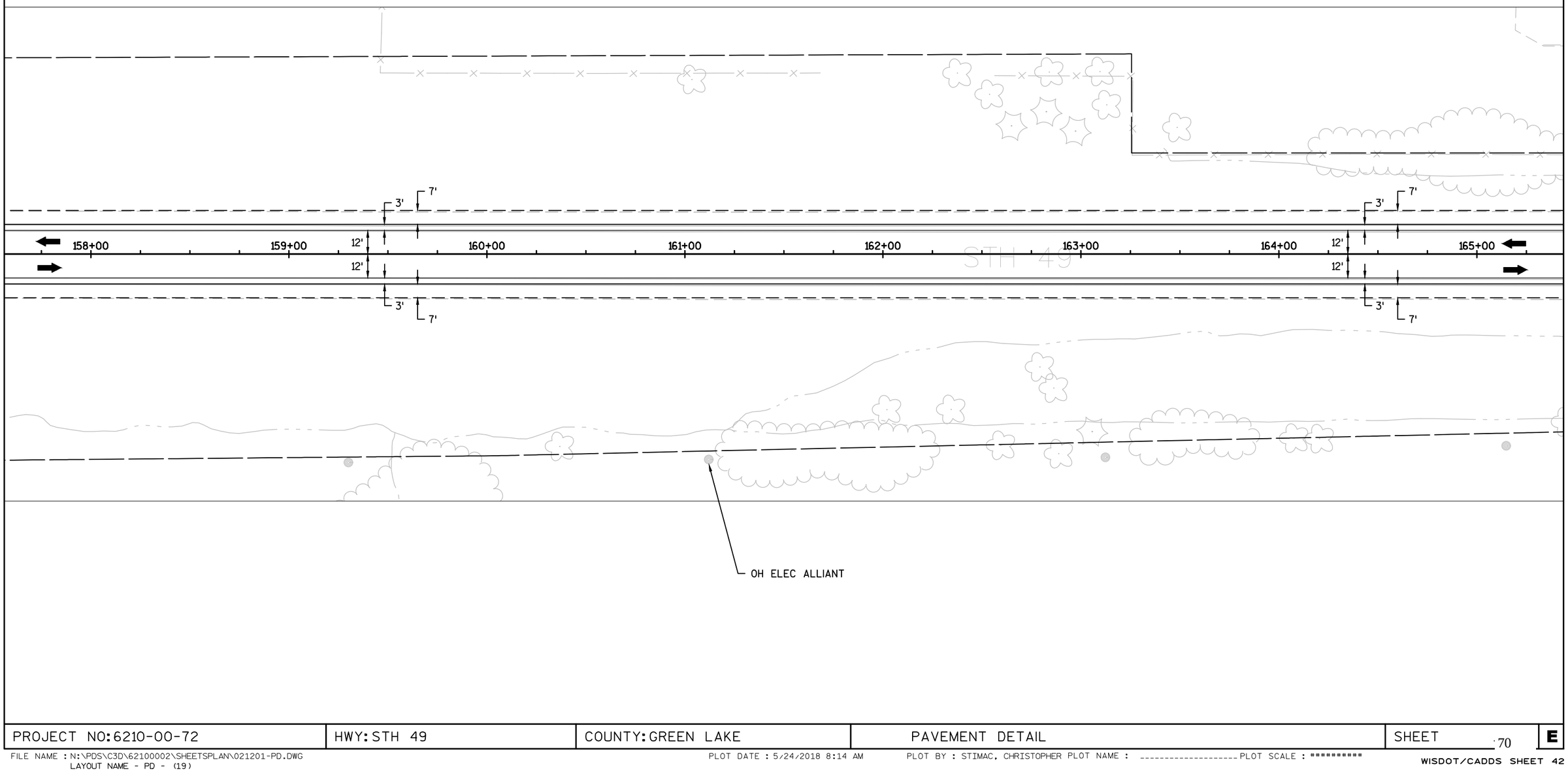
OH ELEC ALLIANT

PROJECT NO:6210-00-72	HWY:STH 49	COUNTY:GREEN LAKE	PAVEMENT DETAIL	SHEET 69	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - PD - (18)
PLOT DATE : 5/24/2018 8:14 AM
PLOT BY : STIMAC, CHRISTOPHER PLOT NAME : _____ PLOT SCALE : **********
WISDOT/CADDS SHEET 42

2

N



PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET 70	E

2

N

SIGN

+00
ASPHALT
CE

3'
7'
12'
12'
3'
7'

165+00
166+00
167+00
168+00
169+00
170+00
171+00
172+00

STH 49

3'
7'
12'
12'
3'
7'

+00
ASPHALT
PE

CENTURY LINK

FO
FO
FO
FO

OH
OH
OH
OH

OH ELEC ALLIANT

PROJECT NO:6210-00-72	HWY:STH 49	COUNTY:GREEN LAKE	PAVEMENT DETAIL	SHEET 71	E

2

N

OH ELEC ALLIANT

+50
GRAVEL
PE

7'
3'
12'
12'
11'
10.5'
12'
12'
12'
12'
3'
7'

172+00 | 173+00 | 174+00 | 175+00 | 176+00 | 177+00 | 178+00 | 179+00

+54 | +64 | BP: 10+00.00"F" | +84 | +86

150' TAPER

130' TAPER

CENTURY LINK

OH ELEC ALLIANT

MILL AND OVERLAY 1.75-INCH

11+00"F"

TOWNLINE RD.

12+00"F"

MATCH EXISTING 11"F"+80
BUTT JOINT REQ'D

CENTURY LINK

SIGN

SEPV

SEPV

U/C

OH

FO

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET 72	E

2

N

OH ELEC ALLIANT

3'
7'
12'
12'
3'
7'

179+00 180+00 181+00 182+00 183+00 184+00 185+00 186+00

STH 49

+70
GRAVEL
PE

PROJECT NO:6210-00-72	HWY:STH 49	COUNTY:GREEN LAKE	PAVEMENT DETAIL	SHEET 73	E

2

N

OH ELEC ALLIANT

PC: 190+76.52

3' 7' 12' 12' 3' 7'

186+00 187+00 188+00 189+00 190+00 191+00 192+00 193+00

STH 49

3' 7' 12' 12' 3' 7'

WELL FLAG

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET 74	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - PD - (23)

PLOT DATE : 5/24/2018 8:15 AM

PLOT BY : STIMAC, CHRISTOPHER PLOT NAME : _____ PLOT SCALE : **********

WISDOT/CADDS SHEET 42

2

N

1.50" HMA PAVEMENT 5MT 58-28S UPPER
2.50" HMA PAVEMENT 3MT 58-28S LOWER

OH ELEC ALLIANT

180' TAPER

PT: 195+71.49

+25 GRAVEL CE

+60 GRAVEL CE

+40 GRAVEL CE

+70 GRAVEL CE

5.89'

3.94'

3'

7'

12'

10'

15'

193+00 194+00 195+00 196+00 197+00 198+00 199+00 200+00

+29 +63 +64 +97 +47 +14

STH 49

I SIGN

FO

CENTURY LINK

WELL

FLAG

1.50" HMA PAVEMENT 5MT 58-28S UPPER
2.50" HMA PAVEMENT 3MT 58-28S LOWER

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET 75	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - PD - (24)

PLOT DATE : 5/24/2018 8:15 AM PLOT BY : STIMAC, CHRISTOPHER PLOT NAME : _____ PLOT SCALE : **********

2

N

MATCH EXISTING 13"G"+70
BUTT JOINT REQ'D

SPRING BROOK RD.

OH ELEC ALLIANT

OH ELEC ALLIANT

RIPRAP

MILL AND OVERLAY 1.75-INCH

1.50" HMA PAVEMENT 5MT 58-28S UPPER
2.50" HMA PAVEMENT 3MT 58-28S LOWER

180' TAPER

+25
GRAVEL
PE

+00
GRAVEL
CE

180' TAPER

CENTURY LINK

1.50" HMA PAVEMENT 5MT 58-28S UPPER
2.50" HMA PAVEMENT 3MT 58-28S LOWER

202+00 203+00 204+00 205+00 206+00 207+00 208+00 209+00

+32 +22 +49 +57 +87 +07 +37 +42 +71

7' 10' 12' 9.6' 15' 3' 3.94' 5.89'

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - PD - (25)
PLOT DATE : 5/24/2018 8:15 AM
PLOT BY : STIMAC, CHRISTOPHER PLOT NAME : ---------- PLOT SCALE : **********
WISDOT/CADDS SHEET 42

2

2

N

OH ELEC ALLIANT

SEPTIC

+20
GRAVEL
PE

+50
GRAVEL
FE

209+00 | 210+00 | 211+00 | 212+00 | 213+00 | 214+00 | 215+00 | 216+00

12'
12'
12'
12'

3'
7'
3'
7'
3'
7'

PROJECT NO:6210-00-72	HWY:STH 49	COUNTY:GREEN LAKE	PAVEMENT DETAIL	SHEET 77	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - PD - (26)

PLOT DATE : 5/24/2018 8:15 AM

PLOT BY : STIMAC, CHRISTOPHER PLOT NAME : ---------- PLOT SCALE : **********

2

N

OH ELEC ALLIANT

3' 7'

214+00 12' 215+00 216+00 217+00 218+00 219+00 220+00 12' 221+00

12'

3' 7'

3' 7'

STH 49

PROJECT NO:6210-00-72	HWY:STH 49	COUNTY:GREEN LAKE	PAVEMENT DETAIL	SHEET 78	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - PD - (27)

PLOT DATE : 5/24/2018 8:15 AM PLOT BY : STIMAC, CHRISTOPHER PLOT NAME : _____ PLOT SCALE : **********

WISDOT/CADDS SHEET 42

2

N

OH ELEC ALLIANT

OH ELEC ALLIANT

STA. 35+00 - STA. 225+25 PULVERIZE AND RELAY PAVEMENT TREATMENT

STA. 225+25 - STA. 415+13 (C.I.R.) COLD IN PLACE RECYCLING PAVEMENT TREATMENT

MILL AND OVERLAY 1.75"

221+00 222+00 223+00 224+00 225+00 226+00 227+00 228+00

3' 7' 12' 12' 3' 7'

3' 12' 12' 3'

+71 +78 10.4" 3' 150' TAPER

BP: 10+00.00"H"
10+00 "H" +01 10' 3'

CENTURY LINK

MILL AND OVERLAY 1.75"

OH ELEC ALLIANT

CENTURY LINK

11+00"H"

FOREST RIDGE RD.

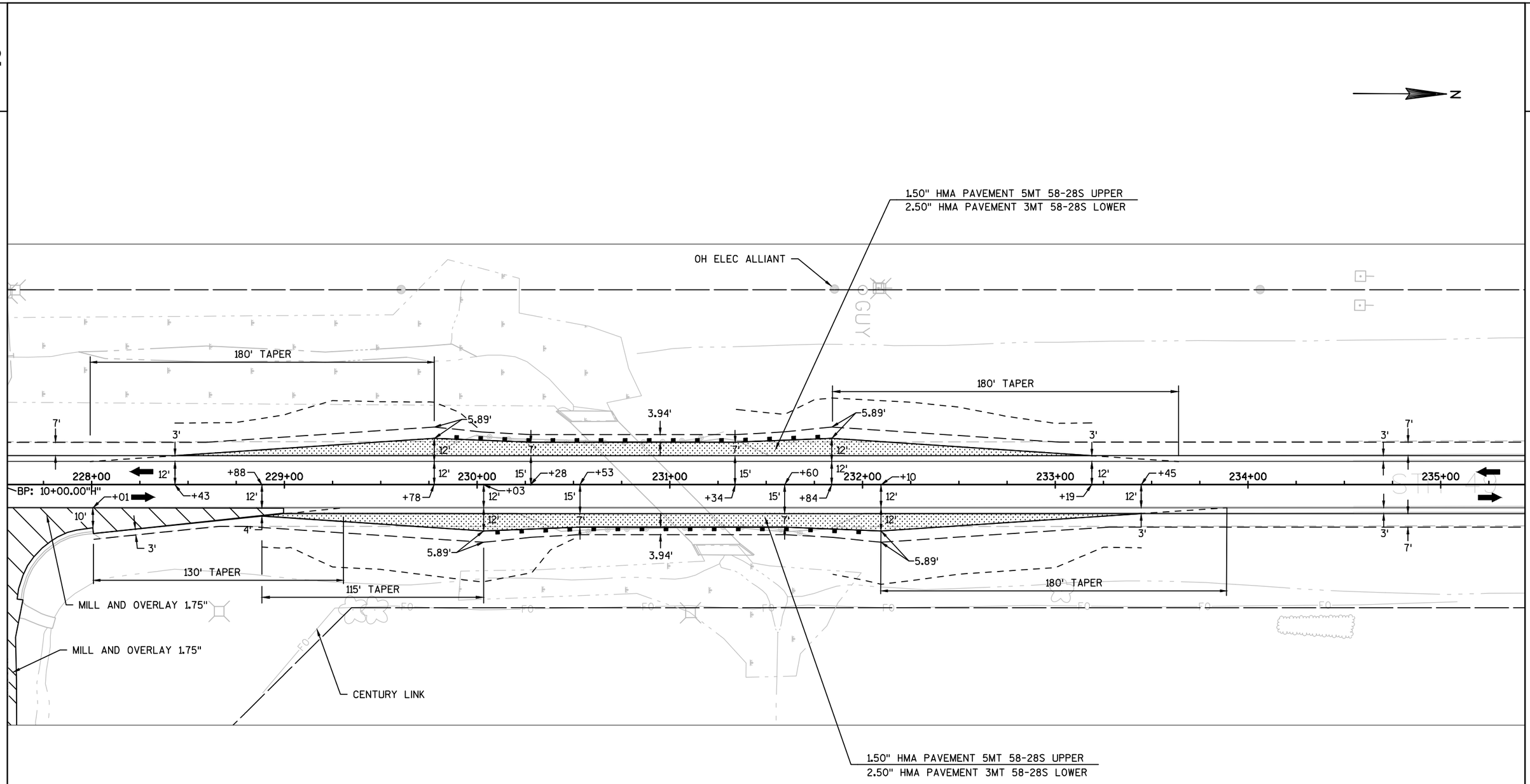
MATCH EXISTING 11"H"+32 BUTT JOINT REQ'D

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET 79	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - PD - (28)

PLOT DATE : 5/24/2018 8:15 AM PLOT BY : STIMAC, CHRISTOPHER PLOT NAME : _____ PLOT SCALE : **********

2



PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET 80	E

2

N

OH ELEC ALLIANT

3' 7' 12' 12' 3' 7'

235+00 236+00 237+00 238+00 239+00 240+00 241+00 242+00

+60
GRAVEL
FE

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET 81	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - PD - (30)
PLOT DATE : 5/24/2018 8:16 AM
PLOT BY : STIMAC, CHRISTOPHER PLOT NAME : ---------- PLOT SCALE : **********

2

N

OH ELEC ALLIANT

SIGN

+90
ASPHALT
PE

3'
7'
12'
242+00
243+00
244+00
245+00
246+00
247+00
248+00
249+00

STH 49

FO

ANT

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET 82	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - PD - (31)
PLOT DATE : 5/24/2018 8:16 AM
PLOT BY : STIMAC, CHRISTOPHER PLOT NAME : ---------- PLOT SCALE : **********
WISDOT/CADDS SHEET 42

2

N

CTH "AA" (WEST)

MATCH EXISTING 8"I"+69
BUTT JOINT REQ'D

MILL AND OVERLAY 1.75"

9+00"I"

OH ELEC ALLIANT

OH ELEC ALLIANT

200'

130' TAPER

+20
GRAVEL
PE

3'

7'

3'

3'

10'

EP: 10+00.00"I"

11'

11'

12'

249+00

12'

250+00

251+00

252+00

12'

253+00

12'

254+00

12'

255+00

12'

256+00

12'

+57

+59

+81

7'

3'

+00
GRAVEL
PE

MILL AND OVERLAY 1.75"

FULL DEPTH SAW CUT
CUT, REMOVE EXISTING
ASPHALT PAVEMENT

3'

+10
ASPHALT
CE

7'

CENTURY LINK

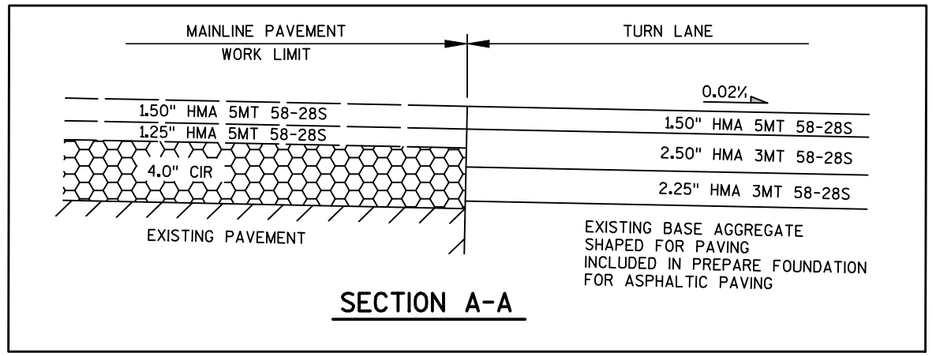
PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET 83	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - PD - (32)

PLOT DATE : 5/24/2018 8:16 AM

PLOT BY : STIMAC, CHRISTOPHER PLOT NAME : ---------- PLOT SCALE : **********

2



SECTION A-A

N

OH ELEC ALLIANT

200'

150' TAPER

A

3'

11'

12'

256+00

257+00

+81

258+00

+19

12'

3'

7'

+30
GRAVEL
FE

259+00

260+00

261+00

STH 49

262+00

12'

263+00

12'

3'

7'

FULL DEPTH SAW CUT
CUT, REMOVE EXISTING
ASPHALT PAVEMENT

FO

SIGN

+40
GRAVEL
PE

CENTURY LINK

SEPTIC

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET 84	E

2

N

STA 263+93 LT
ABANDONED WELL IN SHOULDER USE CAUTION

OH ELEC ALLIANT

+10
ASPHALT
PE

+00
GRAVEL
FE

+30
ASPHALT
PE

263+00 264+00 265+00 266+00 267+00 268+00 269+00 270+00

12' 12' 12' 12'

3' 7' 3' 7' 3' 7' 3' 7'

PROJECT NO:6210-00-72	HWY:STH 49	COUNTY:GREEN LAKE	PAVEMENT DETAIL	SHEET 85	E

2

N

OH ELEC ALLIANT

OH

7'
3'
12'
12'
3'
7'

270+00 271+00 272+00 273+00 274+00 275+00 276+00 277+00

STH 49

7'
3'
12'
+60
12'
3'
3'
7'

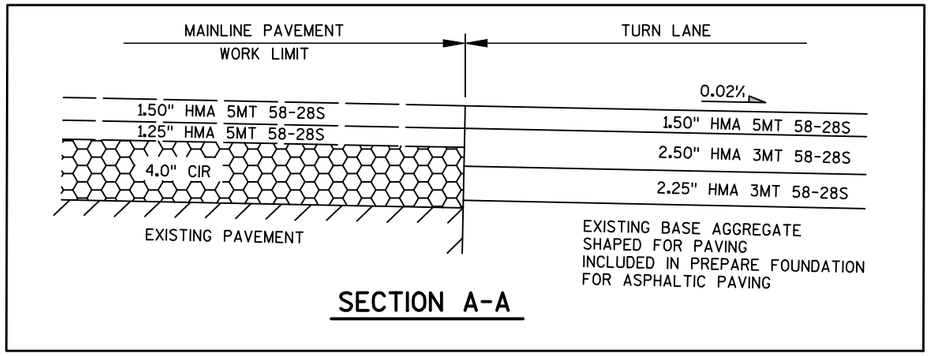
150' TAPER

FO FO FO

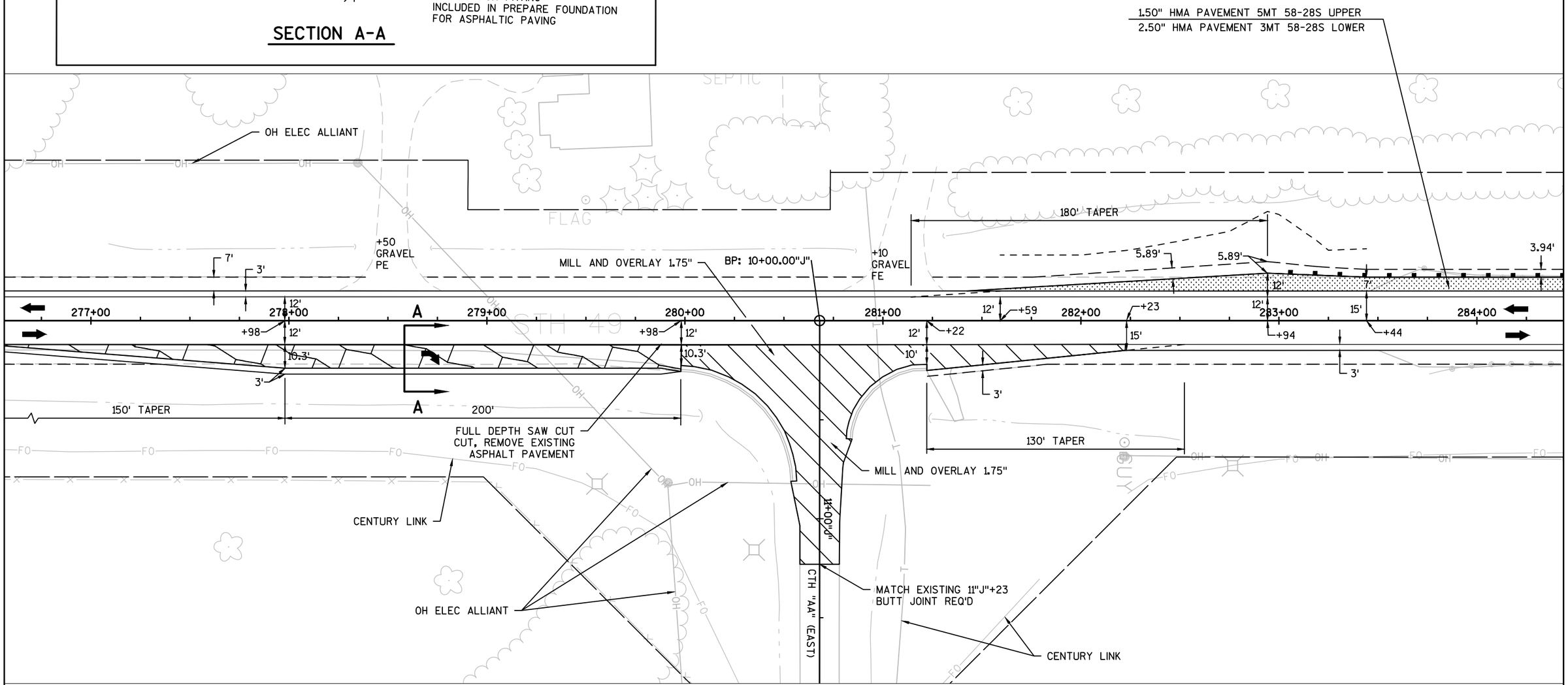
CENTURY LINK

PROJECT NO:6210-00-72	HWY:STH 49	COUNTY:GREEN LAKE	PAVEMENT DETAIL	SHEET 86	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - PD - (35)
PLOT DATE : 5/24/2018 8:16 AM
PLOT BY : STIMAC, CHRISTOPHER PLOT NAME : _____ PLOT SCALE : **********
WISDOT/CADDS SHEET 42



SECTION A-A



PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET 87	E

2

N

1.50" HMA PAVEMENT 5MT 58-28S UPPER
2.50" HMA PAVEMENT 3MT 58-28S LOWER

180' TAPER

SAW CUT ON AT STA 289+00 AND STA 290+10
FOR REMOVAL OF CATTLE PASS AND CULVERT PIPE TRANSITION.

+80
GRAVEL
PE

PLANTER

WALL

SIGN

CENTURY LINK

ALLIANT

OH ELEC ALLIANT

FO OH

3.94'

5.89'

7'

10'

12'

15'

3'

+62 +73 +13 +23 +48

284+00 285+00 286+00 287+00 288+00 289+00 290+00 291+00

44

PROJECT NO:6210-00-72	HWY:STH 49	COUNTY:GREEN LAKE	PAVEMENT DETAIL	SHEET 88	E

2

N

CENTURY LINK

180' TAPER

SIGN

3'

7'

291+00

292+00

12'

293+00

294+00

295+00

296+00

297+00

298+00

+78

+13

+00
GRAVEL
PE

OH

GUY

OH ELEC ALLIANT

FO

SEPTIC

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET 89	E

2

2

N

1.50" HMA PAVEMENT 5MT 58-28S UPPER
2.50" HMA PAVEMENT 3MT 58-28S LOWER

CENTURY LINK

180' TAPER

7'
+50
GRAVEL
FE

5.89' TYP.

5.89'

3.94'

5.89'

12'
15'
298+00
+78
+13
299+00
+13
+48
12'
+63
15'
300+00
+98
301+00
302+00
303+00
15'
+42
+56
15'
+92
12'
304+00
+06
12'
305+00
+27
15'
+41
15'

12'
7'
+10
GRAVEL
PE

5.89'

3.94'

5.89'

180' TAPER

CENTURY LINK

OH ELEC ALLIANT

180' TAPER

CENTURY LINK

SEPTIC

1.50" HMA PAVEMENT 5MT 58-28S UPPER
2.50" HMA PAVEMENT 3MT 58-28S LOWER

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET 90	E

2

2

N

180' TAPER

+10
GRAVEL
PE

3'

7'

305+00

15'

+41

+27

15'

306+00

12'

12'

STH 49

307+00

308+00

309+00

310+00

311+00

12'

12'

312+00

+60
GRAVEL
FE

180' TAPER

OH ELEC ALLIANT

OH

GC

FO

GL

+40
GRAVEL
FE

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET - 91 E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - PD - (40)

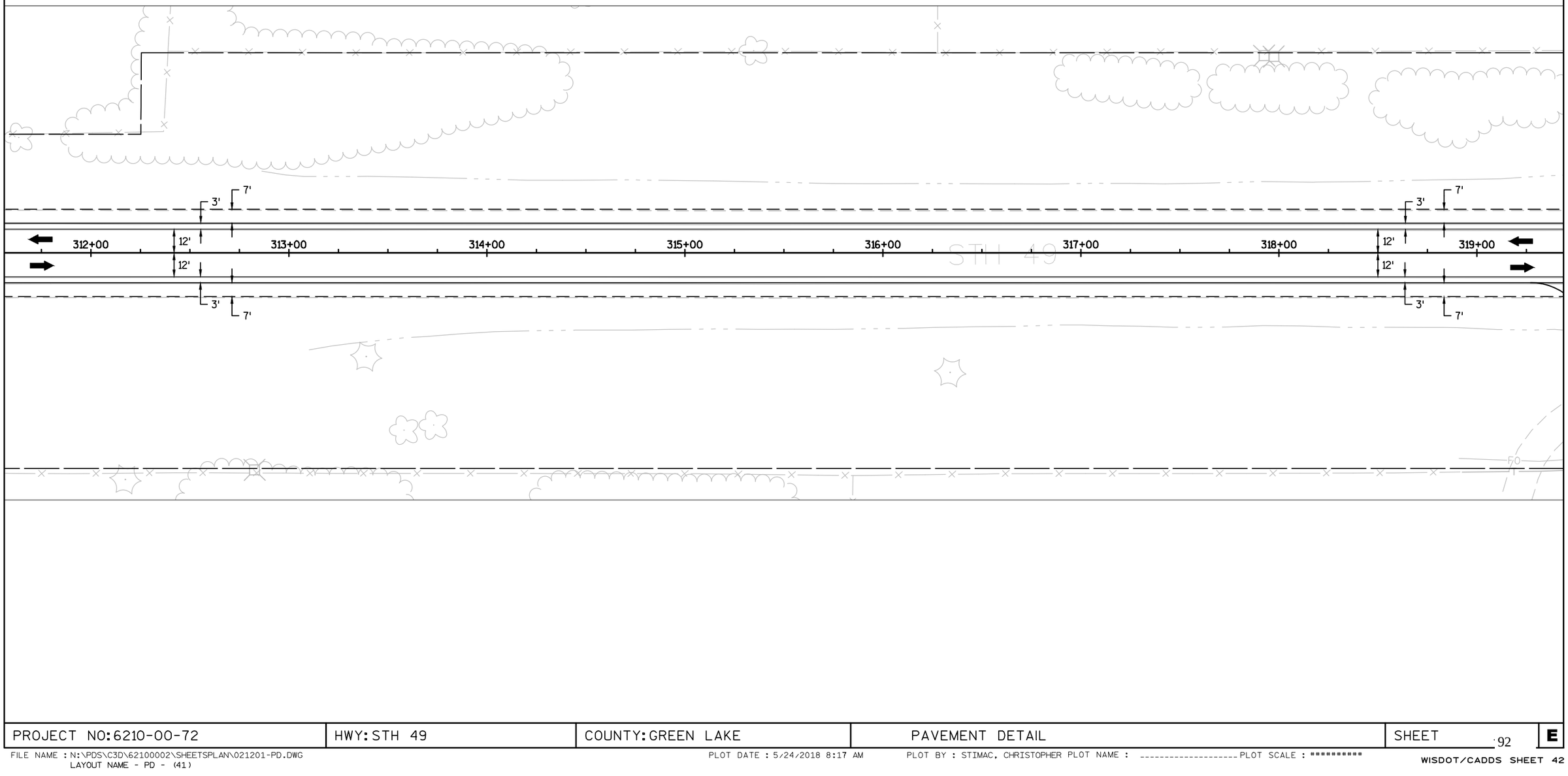
PLOT DATE : 5/24/2018 8:17 AM

PLOT BY : STIMAC, CHRISTOPHER PLOT NAME : ---------- PLOT SCALE : **********

WISDOT/CADDS SHEET 42

2

N



PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - PD - (41)

PLOT DATE : 5/24/2018 8:17 AM

PLOT BY : STIMAC, CHRISTOPHER PLOT NAME : _____ PLOT SCALE : **********

2

N

+90
GRAVEL
FE

3'
7'
12'
12'
3'
7'

319+00
320+00
321+00
322+00
323+00
324+00
325+00
326+00

SAW CUT FULL DEPTH
AT STA 323+25

700' TAPER

12'
+25

STH 49

SAW CUT FULL DEPTH
AT STA 323+25 TO 331+75

+67
GRAVEL
FE
NEW

+90
GRAVEL
FE
REMOVE

SIDE SLOPE 6:1,TYP

20'

SEDIMENT TRAP AT CULVERT INLET
SEE CONST DETAIL

TRANSITION SIDE SLOPE
FROM 6:1 TO MATCH
EXISTING, TYP

RECONSTRUCT FIELD ENTRANCE
SEE CONSTRUCTION DETAIL

FO
T

FO
T

FO
T

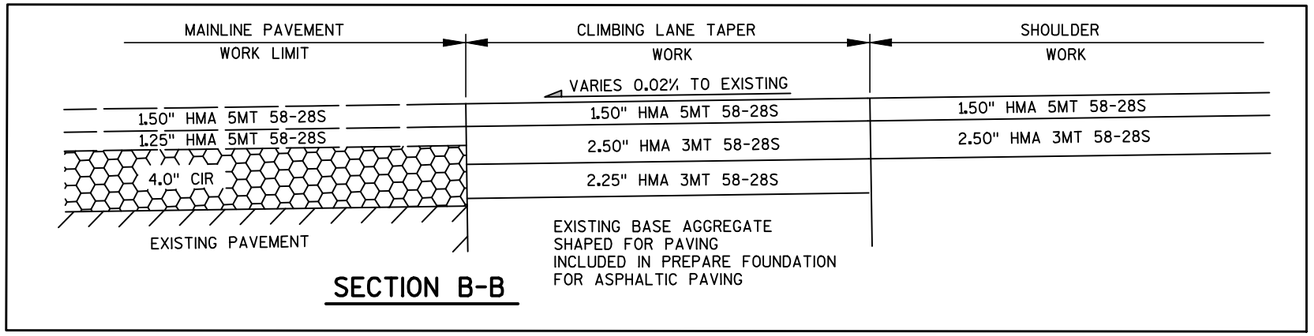
PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET 93	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - PD - (42)

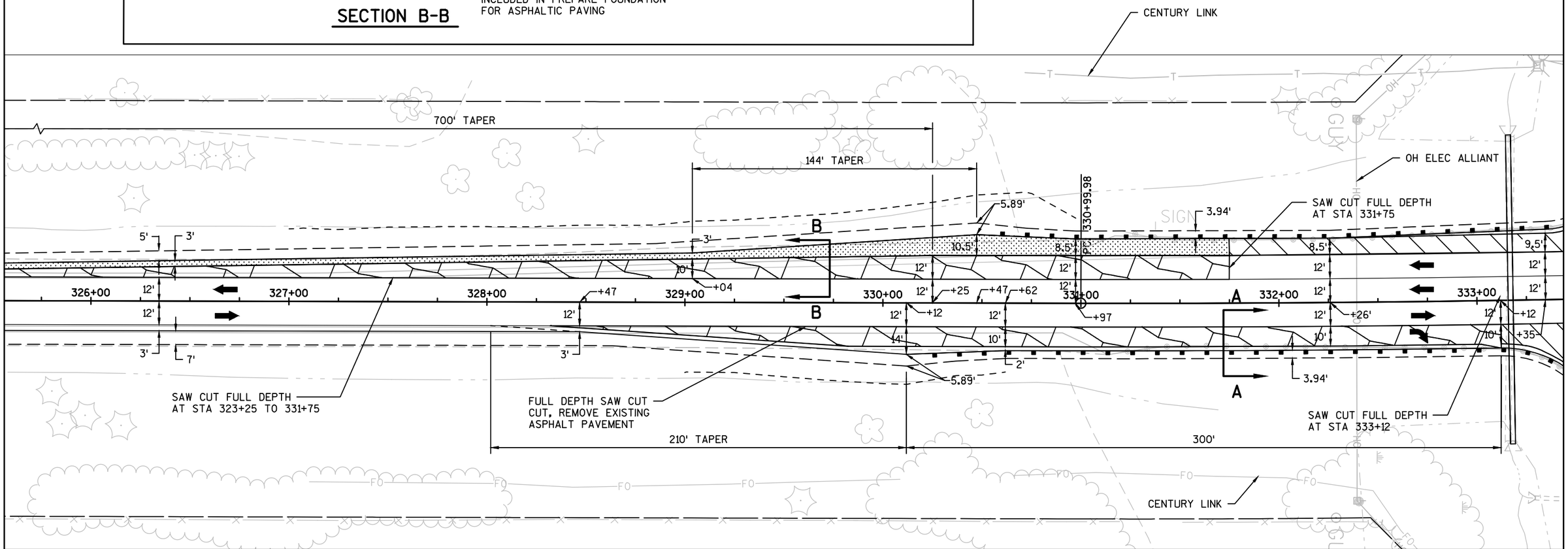
PLOT DATE : 5/24/2018 8:17 AM PLOT BY : STIMAC, CHRISTOPHER PLOT NAME : ---------- PLOT SCALE : **********

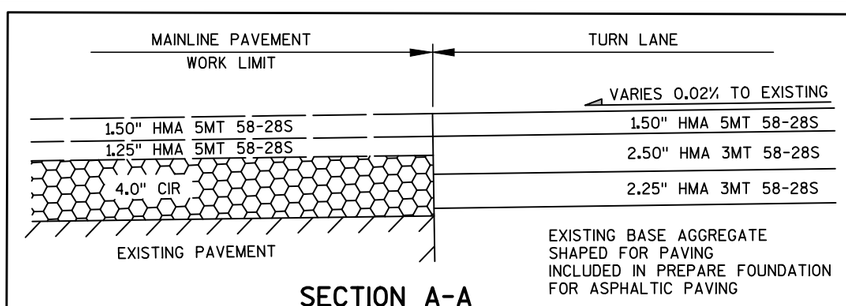
WISDOT/CADDS SHEET 42

2



SECTION B-B





SECTION A-A

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET 94	E

2

N

OH ELEC ALLIANT

ALLIANT

MATCH EXISTING 13"K"+31
BUTT JOINT REQ'D

MILL AND OVERLAY 1.75"

REMOVE EXISTING 36-INCH CURB AND GUTTER
CONCRETE CURB AND GUTTER REQ'D
30-INCH TYPE D, DRIVEWAY

CENTURY LINK

PAVE WITH 6.25" NEW HMA

MILL AND OVERLAY 1.75"

ALLIANT

200'

150' TAPER

ALLIANT

CTH V

13+00"K"

14+00"K"

15+00"K"

16+00"K"

17+00"K"

PI: 15+00.00"K"

PI: 336+26.63

A

A

9.5'

2'

3.94'

2'

2'

4'

4'

3.94'

12'

10'

4'

6'

333+00 +12 +35

334+00 +41

335+00 +41 +75 336+00

+66

337+00 +67

338+00

339+00 +22

340+00

+67

SAW CUT AND REMOVE
EXISTING PAVEMENT

FULL DEPTH SAW CUT
CUT, REMOVE EXISTING
ASPHALT PAVEMENT

230' TAPER

300'

MILL AND OVERLAY 1.75"

100' TAPER REQ'D

CENTURY LINK

ASPHALT CURB REQ'D
SEE DETAIL 'A'

MILL AND OVERLAY 1.75"

CENTURY LINK

ASPHALTIC FLUME
REQ'D/SEE SDD

EXISTING
ASPHALTIC FLUME

MATCH EXISTING 16"K"+51
BUTT JOINT REQ'D

CTH V

CENTURY LINK

OH ELEC ALLIANT

SIGN

SIGN

SIGN

INL

GUY

GUY

SECTION A-A

MAINLINE PAVEMENT
WORK LIMIT

TURN LANE

0.02%

1.50" HMA 5MT 58-28S
1.25" HMA 5MT 58-28S
4.0" CIR
EXISTING PAVEMENT

1.50" HMA 5MT 58-28S
2.50" HMA 3MT 58-28S
2.25" HMA 3MT 58-28S

EXISTING BASE AGGREGATE
SHAPED FOR PAVING
INCLUDED IN PREPARE FOUNDATION
FOR ASPHALTIC PAVING

DETAIL 'A' ASPHALT CURB

3/4" BAD

FLOW LINE

5"
NOR

3/4-INCH, ± 1/8-INCH

4-INCH

10" NOR

NOTES:

APPROXIMATELY 12' OF LENGTH REQ'D AS
MEASURED AT THE FLOW LINE

ASPHALT CURB SHALL DIRECT SURFACE WATER TO FLUME

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET 95	E

2

N

OLD HWY 49 (SOUTH)

"L" 7+00+8

"L" 7+00+6

"L" 10+00

"L" 11+00

PC: 8+42.09"L"

PI: 10+00.00"L"

PT: 9+68.78"L"

MATCH EXISTING 8"L"+56
BUTT JOINT REQ'D

MATCH EXISTING 11"L"+10
BUTT JOINT REQ'D

UG ELEC ALLIANT

CENTURY LINK

ALLIANT

ALLIANT

CENTURY LINK

ALLIANT

MILL AND OVERLAY 1.75"

MILL AND OVERLAY 1.75"

MILL AND OVERLAY 1.75"

150' TAPER

230' TAPER

100'

120' TAPER

ALL SAINTS CHURCH ENTRANCE

340+00 341+00 342+00 343+00 344+00 345+00 346+00 347+00

12' 12' 12' 12' 12' 12' 12' 12'

15' 16' 16'

4' 4' 4' 4' 6'

3.94' 2' 28' 32' 36' +37 +35 +29 +91 +41 +91 +04 +35 +91 27.8' 26.9'

SIGN WALL RIPRAP SIGN SIGN SIGN SIGN

INL INL STH 49

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET 96	E

2

N

SIGN

4' 4'

12'

12'

12'

347+00 348+00 349+00 350+00 351+00 STH 49 352+00 353+00 354+00

4' 4'

12'

12'

12'

4' 6'

4' 6'

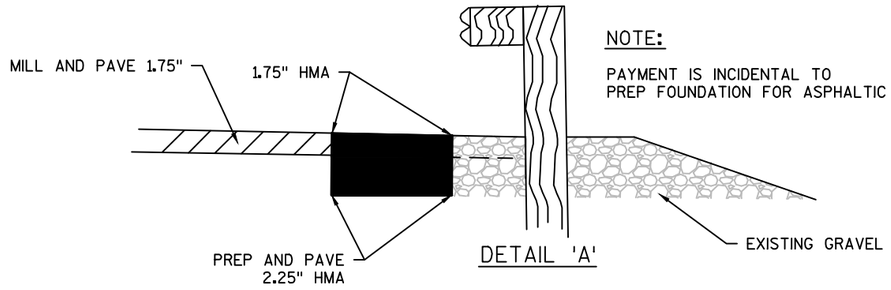
G G

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET 97	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - PD - (46)

PLOT DATE : 5/24/2018 8:17 AM PLOT BY : STIMAC, CHRISTOPHER PLOT NAME : ---------- PLOT SCALE : **********

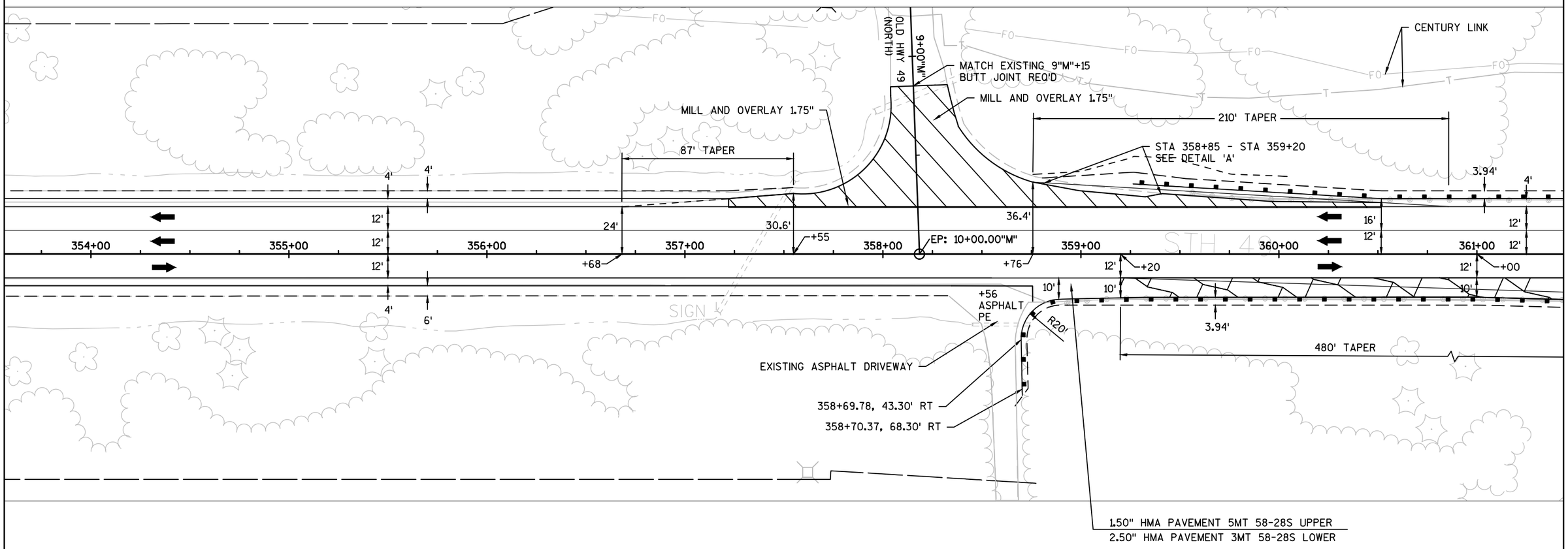
2



NOTE:

PAYMENT IS INCIDENTAL TO
PREP FOUNDATION FOR ASPHALTIC PAVING

N



PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET 98	E

2

N

CENTURY LINK

PT: 8+14.85"N"

MATCH EXISTING 8"N"+37
BUTT JOINT REQ'D

MILL AND OVERLAY 1.75"

MILL AND OVERLAY 1.75"

ASPHALTIC
FLUME REQ'D

700' TAPER
CLIMBING LANE

CTH "A"

9+00"N"

FC: 362+49.55

3.94'

4'

10'

12'

3'

BP: 10+00.00"0"

EP: 10+00.00"N"

361+00

362+00

363+00

364+00

365+00

366+00

367+00

368+00

+00

+37

+36

+80

13'

7.5

9.5'

2'

480' TAPER

STA 366+35
END CLIMBING
LANE TAPER

ALLIANT

ALLIANT

MILL AND OVERLAY 1.75"

OH ELEC ALLIANT

CENTURY LINK

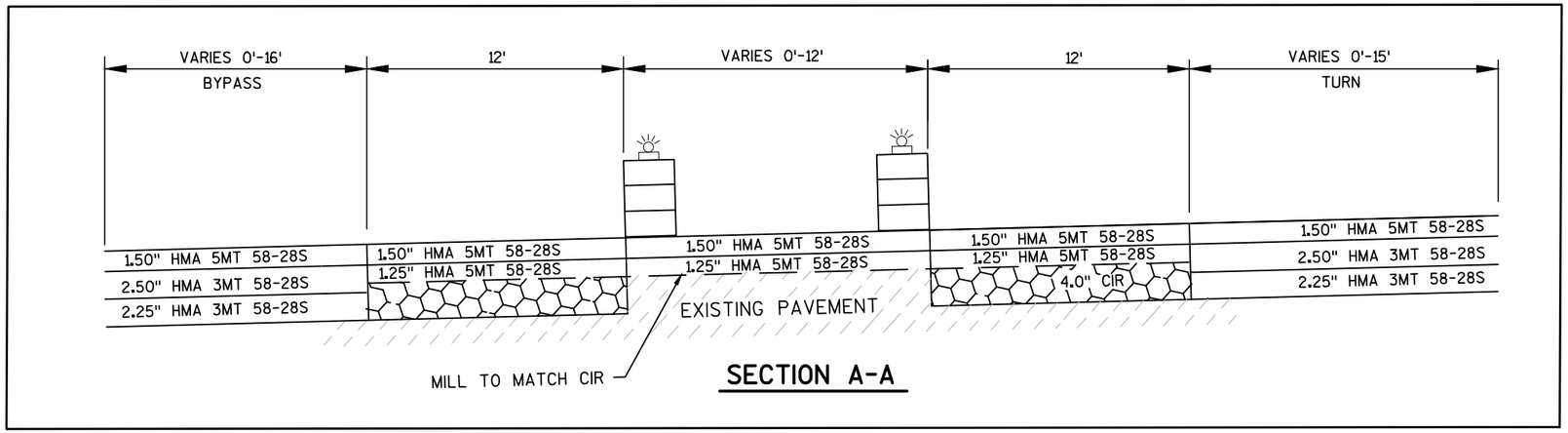
MATCH EXISTING 10"0"+88
BUTT JOINT REQ'D

11+00"0"

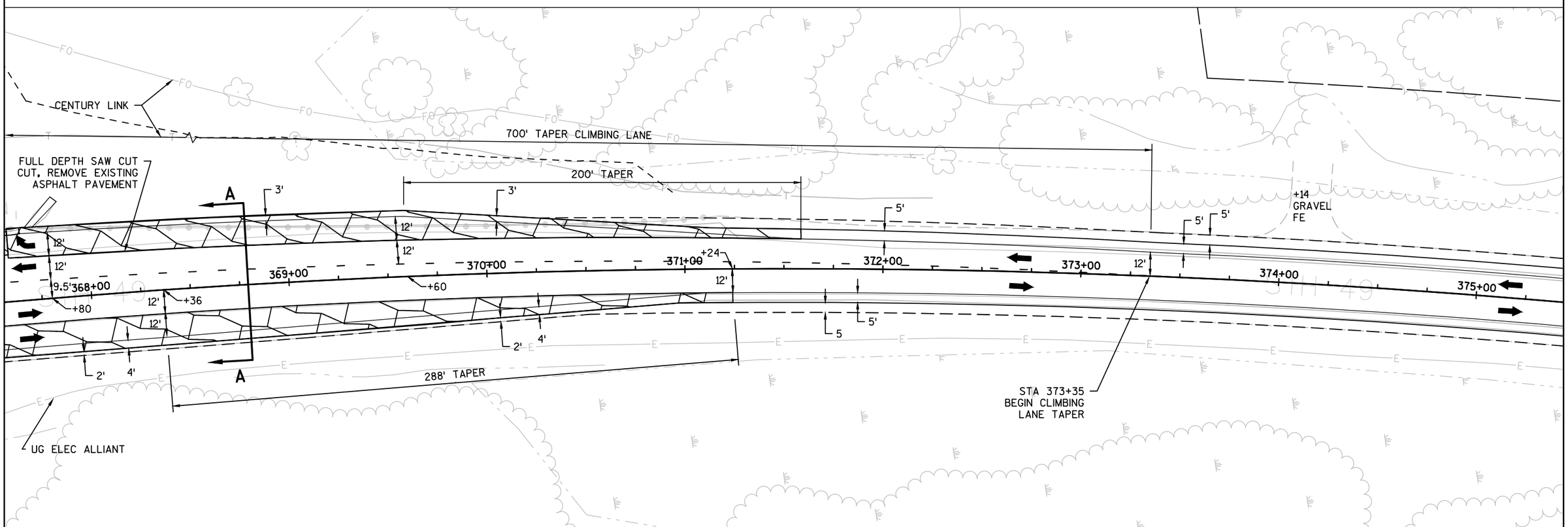
EAST "A" ROAD

1.50" HMA PAVEMENT 5MT 58-28S UPPER
2.50" HMA PAVEMENT 3MT 58-28S MIDDLE
2.25" HMA PAVEMENT 3MT 58-28S LOWER

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET 99	E

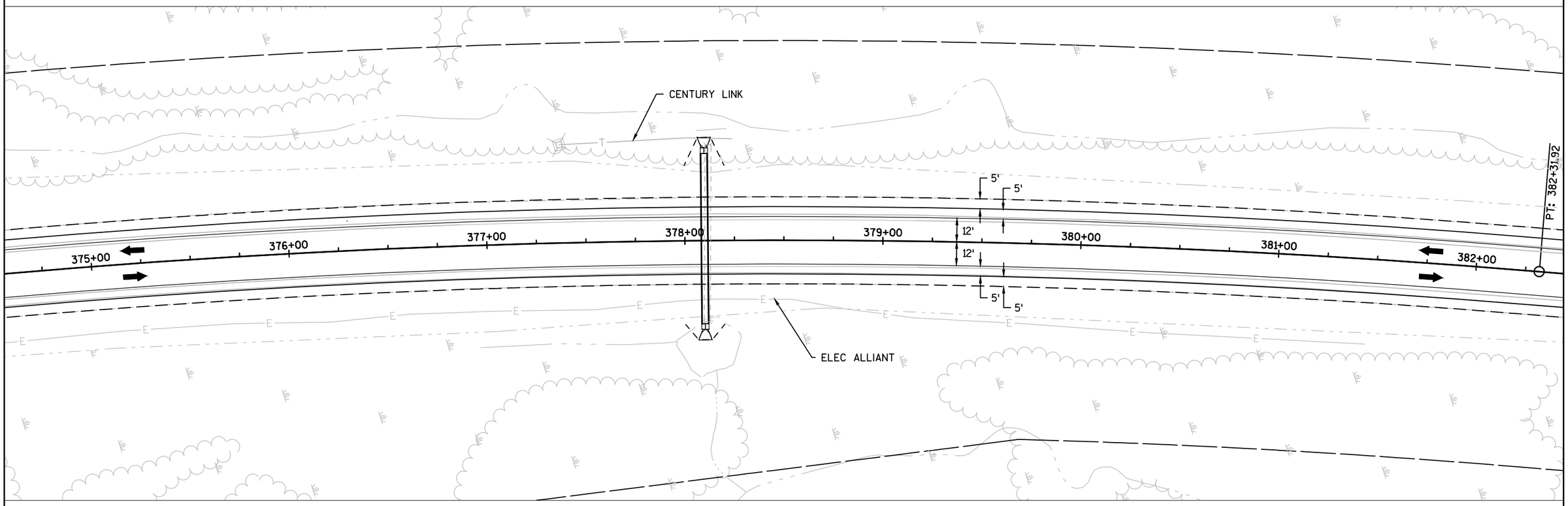


SECTION A-A



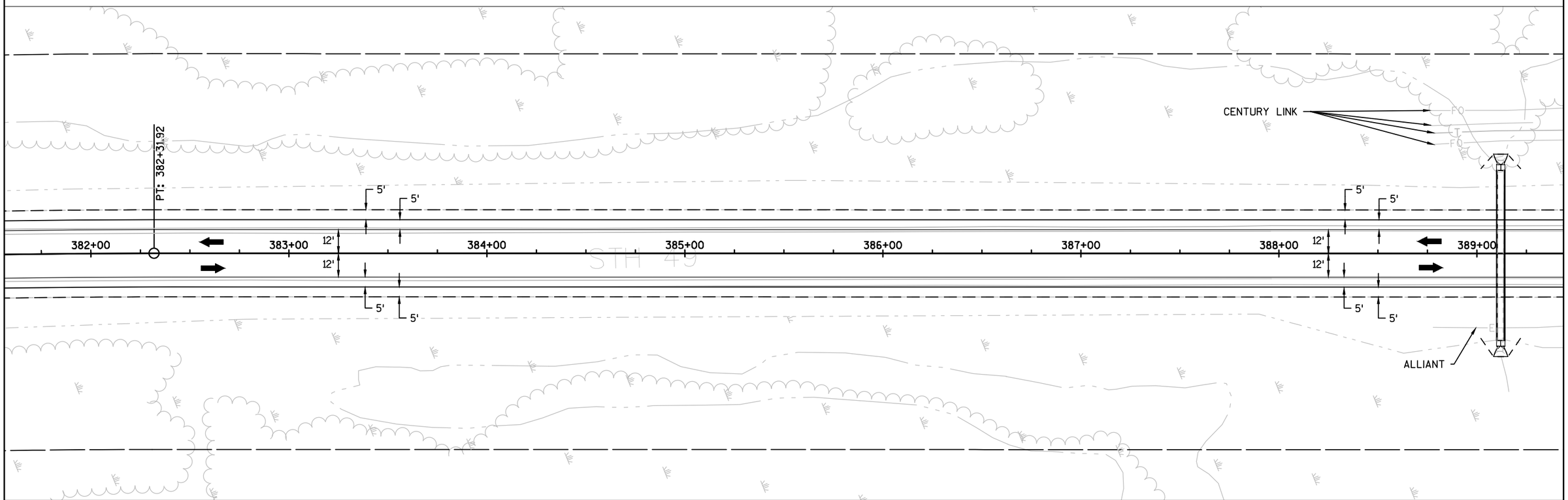
PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET 100	E

2



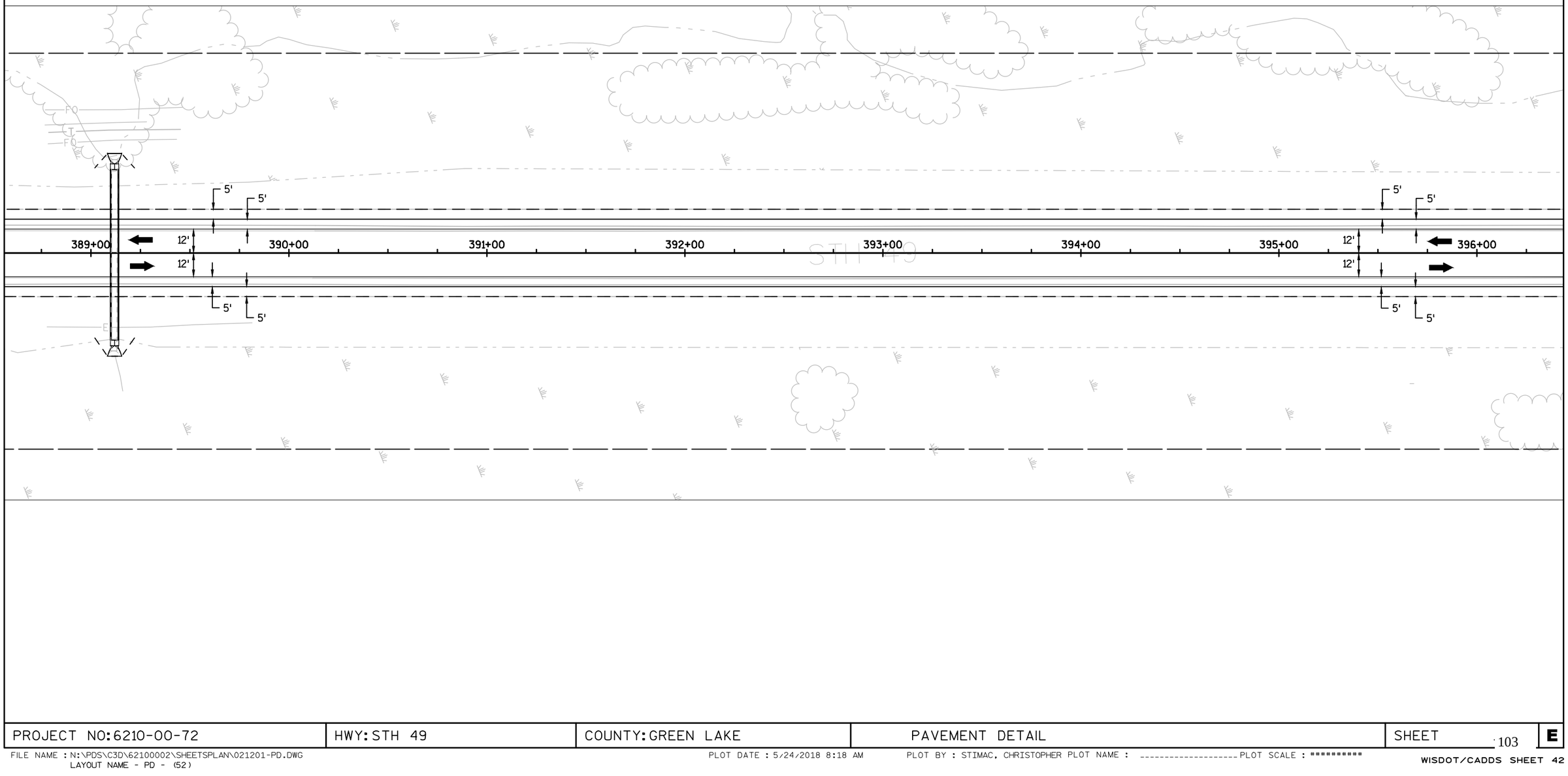
PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET 101	E

2



PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET 102	E

2

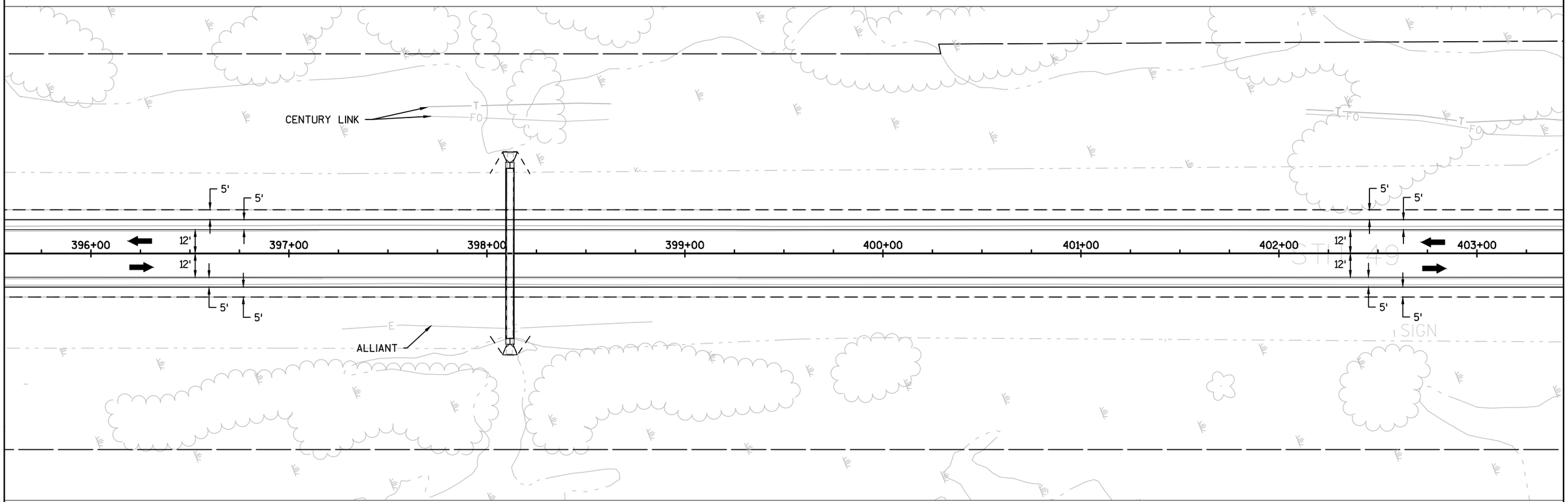


PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - PD - (52)

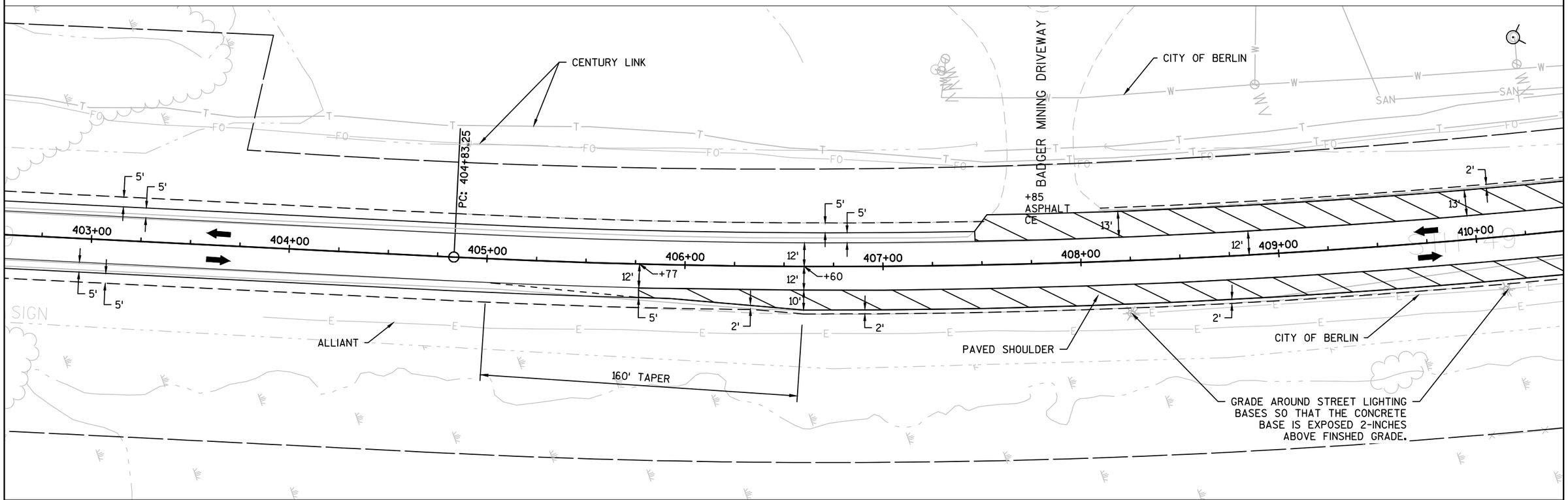
PLOT DATE : 5/24/2018 8:18 AM PLOT BY : STIMAC, CHRISTOPHER PLOT NAME : _____ PLOT SCALE : **********

2



PROJECT NO:6210-00-72	HWY:STH 49	COUNTY:GREEN LAKE	PAVEMENT DETAIL	SHEET 104	E

2



PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET 105	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - PD - (54)
PLOT DATE : 5/24/2018 8:18 AM
PLOT BY : STIMAC, CHRISTOPHER PLOT NAME : _____ PLOT SCALE : **********
WISDOT/CADDS SHEET 42

2

N

1.50" HMA PAVEMENT 5MT 58-28S UPPER
2.50" HMA PAVEMENT 3MT 58-28S LOWER

CITY OF BERLIN

ATC

ALLIANT

STA. 415+13 (C.I.R.) END MILL
COLD IN PLACE RECYCLING, NEW HMA PAVEMENT
SAW CUT REQ'D, BUTT JOINT REQ'D

410+00 411+00 412+00 413+00 414+00 415+00 416+00 417+00

+51 +92 +22 +72 +40 +75 +17 +67 +43 +93 +25

2' 5.89' 13' 12' 10' 11' 9' 11'

ALLIANT

CITY OF BERLIN

1.50" HMA PAVEMENT 5MT 58-28S UPPER
2.50" HMA PAVEMENT 3MT 58-28S LOWER

+20
ASPHALT
CE

STA. 415+13 END PROJECT

CITY OF BERLIN

SOUTH ST.

ATC

GRADE AROUND STREET LIGHTING BASES SO THAT THE CONCRETE BASE IS EXPOSED 2-INCHES ABOVE FINSHED GRADE.

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT DETAIL	SHEET 106	E

LEGEND

- HEAVY DUTY SILT FENCE (SEE SDD)
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- DRAINAGE ARROW
- TEMPORARY WETLAND IMPACT
- WETLAND TAKE AREA
- EROSION MAT CLASS 1 TYPE A
- EROSION MAT URBAN CLASS 1 TYPE B
- TEMPORARY SMALL ANIMAL TURN-AROUND

R/W

WETLAND BOUNDARY

PERMITTED WETLAND TAKE #1
0.008 ACRES RPE(D)
N NO43.859130
E WO88.943715

PERMITTED WETLAND TAKE #2
0.005 ACRES RPE(D)
N NO43.859887
E WO88.943911

RIPRAP

SIGN

SIGN

STH 49

STH 49

SLOPE INTERCEPT

SILT FENCE

WETLAND BOUNDARY

R/W

40 41 42 43 44 45

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	EROSION CONTROL	SHEET 107	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\022201_EC.DWG PLOT DATE : 4/10/2018 12:32 PM PLOT BY : STONE, JAY E PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

LEGEND

- HEAVY DUTY SILT FENCE (SEE SDD)
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- DRAINAGE ARROW
- TEMPORARY WETLAND IMPACT
- WETLAND TAKE AREA
- EROSION MAT CLASS 1 TYPE A
- EROSION MAT URBAN CLASS 1 TYPE B
- TEMPORARY SMALL ANIMAL TURN-AROUND

N

R/W

WETLAND BOUNDARY

PERMITTED WETLAND TAKE #3
0.001 ACRES RPF(D)
N N043.860898
E W088.944166

RIPRAP

PERMITTED WETLAND TAKE #4
0.007 ACRES RPF(D)
N N043.861513
E W088.944331

SILT FENCE

SLOPE INTERCEPT

47 STH 49 48 49 50 51 52

RIPRAP

WETLAND BOUNDARY

R/W

PROJECT NO:6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	EROSION CONTROL	SHEET	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\022201_EC.DWG PLOT DATE : 4/10/2018 12:32 PM PLOT BY : STONE, JAY E PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2

LEGEND

- HEAVY DUTY SILT FENCE (SEE SDD)
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- DRAINAGE ARROW
- TEMPORARY WETLAND IMPACT
- WETLAND TAKE AREA
- EROSION MAT CLASS 1 TYPE A
- EROSION MAT URBAN CLASS 1 TYPE B
- TEMPORARY SMALL ANIMAL TURN-AROUND

N

R/W

06 107 108 109 110 111 112

STH 49

STH 49

R/W

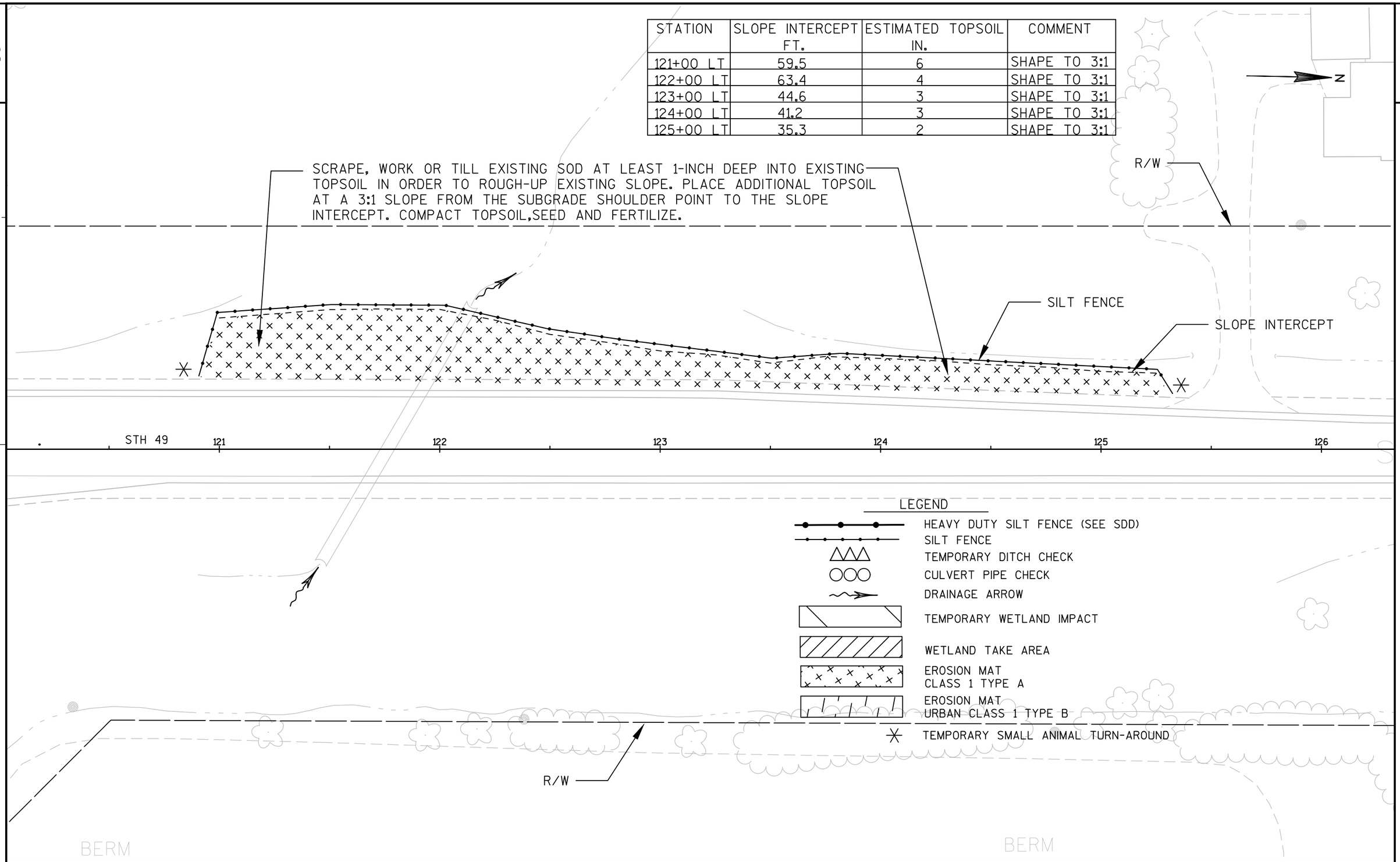
SLOPE INTERCEPT

SILT FENCE

2

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	EROSION CONTROL	SHEET 109	E

STATION	SLOPE INTERCEPT FT.	ESTIMATED TOPSOIL IN.	COMMENT
121+00 LT	59.5	6	SHAPE TO 3:1
122+00 LT	63.4	4	SHAPE TO 3:1
123+00 LT	44.6	3	SHAPE TO 3:1
124+00 LT	41.2	3	SHAPE TO 3:1
125+00 LT	35.3	2	SHAPE TO 3:1



PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	EROSION CONTROL	SHEET	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\022201_EC.DWG PLOT DATE : 4/10/2018 12:32 PM PLOT BY : STONE, JAY E PLOT NAME : PLOT SCALE : 1:40_XREF
WISDOT/CADDS SHEET 42

2

2

LEGEND

HEAVY DUTY SILT FENCE (SEE SDD)
SILT FENCE
TEMPORARY DITCH CHECK
CULVERT PIPE CHECK
DRAINAGE ARROW
TEMPORARY WETLAND IMPACT
WETLAND TAKE AREA
EROSION MAT CLASS 1 TYPE A
EROSION MAT URBAN CLASS 1 TYPE B
TEMPORARY SMALL ANIMAL TURN-AROUND

N

R/W

WETLAND BOUNDARY

SILT FENCE

SLOPE INTERCEPT

138 STH 49 139 140 141 142 143 144

STH 49

B-24-0004

WETLAND BOUNDARY

R/W

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	EROSION CONTROL	SHEET	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\022201_EC.DWG PLOT DATE : 4/10/2018 12:32 PM PLOT BY : STONE, JAY E PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2

2

LEGEND

- HEAVY DUTY SILT FENCE (SEE SDD)
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- DRAINAGE ARROW
- TEMPORARY WETLAND IMPACT
- WETLAND TAKE AREA
- EROSION MAT CLASS 1 TYPE A
- EROSION MAT URBAN CLASS 1 TYPE B
- TEMPORARY SMALL ANIMAL TURN-AROUND

N

R/W

WETLAND BOUNDARY

SILT FENCE

SLOPE INTERCEPT

PT: 195+71.19

TEMPORARY WETLAND IMPACT

196 197 STH 49 198 199 200 201

STH 49

SIGN

GUY

R/W

WETLAND BOUNDARY

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	EROSION CONTROL	SHEET 112	E

2

TEMPORARY WETLAND IMPACT
0.184 ACRES
N 043.903007
W 088.946828

WETLAND BOUNDARY

SPRING BROOK ROAD

13+00G

PI STA = 13+46.04
Y = 295151.112
X = 572638.832
DELTA = 36°47'09"
D = 21°55'52"
T = 86.87'
L = 167.73'
R = 261.25'
PC STA = 12+59.17
PT STA = 14+26.90

14+00G

PT: 14+26.90G

N86° 17' 24"E

98.22'

R/W

RIPRAP

SIGN

GUY

202 STH 49 203 204 205 206 207

EP: 15+00.00G

STH

LEGEND

- HEAVY DUTY SILT FENCE (SEE SDD)
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- DRAINAGE ARROW
- TEMPORARY WETLAND IMPACT
- WETLAND TAKE AREA
- EROSION MAT CLASS 1 TYPE A
- EROSION MAT URBAN CLASS 1 TYPE B
- TEMPORARY SMALL ANIMAL TURN-AROUND

N

SLOPE INTERCEPT

SILT FENCE

R/W

WETLAND BOUNDARY

ANT

RAMP

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	EROSION CONTROL	SHEET	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\022201_EC.DWG PLOT DATE : 4/10/2018 12:32 PM PLOT BY : STONE, JAY E PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2

LEGEND

- HEAVY DUTY SILT FENCE (SEE SDD)
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- DRAINAGE ARROW
- TEMPORARY WETLAND IMPACT
- WETLAND TAKE AREA
- EROSION MAT CLASS 1 TYPE A
- EROSION MAT URBAN CLASS 1 TYPE B
- TEMPORARY SMALL ANIMAL TURN-AROUND

N

6.04
2
7'09"

59.17
26.90

PT: 14+26.90G

SILT FENCE

SLOPE INTERCEPT

R/W

GUY

GUY

205
EP: 15+00.00G

206

STH 49

207

208

209

210

211

SIGN

FLAG

ANT

ANT

RAMP

R/W

PROJECT NO:6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	EROSION CONTROL	SHEET 114	E

2

LEGEND

- HEAVY DUTY SILT FENCE (SEE SDD)
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- DRAINAGE ARROW
- TEMPORARY WETLAND IMPACT
- WETLAND TAKE AREA
- EROSION MAT CLASS 1 TYPE A
- EROSION MAT URBAN CLASS 1 TYPE B
- TEMPORARY SMALL ANIMAL TURN-AROUND

N

R/W

PERMITTED WETLAND TAKE #5
0.011 ACRES RPE(D)
N N043.908585
E W088.946692

SILT FENCE

WETLAND BOUNDARY

219 220 STH 49 221 222 223 224 225

WETLAND BOUNDARY

PERMITTED WETLAND TAKE #6
0.019 ACRES RPE(D)
N N043.908579
E W088.946345

R/W

PROJECT NO:6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	EROSION CONTROL	SHEET	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\022201_EC.DWG PLOT DATE : 4/10/2018 12:32 PM PLOT BY : STONE, JAY E PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2

LEGEND

- HEAVY DUTY SILT FENCE (SEE SDD)
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- DRAINAGE ARROW
- TEMPORARY WETLAND IMPACT
- WETLAND TAKE AREA
- EROSION MAT CLASS 1 TYPE A
- EROSION MAT URBAN CLASS 1 TYPE B
- TEMPORARY SMALL ANIMAL TURN-AROUND
- N

PERMITTED WETLAND TAKE #7
0.003 ACRES RPF
N N043.910549
E W088.946679

WETLAND BOUNDARY

R/W

SILT FENCE

SLOPE INTERCEPT

228 STH 49 229 230 231 232 233 234

0.00H

B-24-0443

PERMITTED WETLAND TAKE #8
0.003 ACRES RPF(D)
N N043.910704
E W088.946342

WETLAND BOUNDARY

R/W

PERMITTED WETLAND TAKE #9
0.001 ACRES RPF(D)
N N043.911215
E W088.946345

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	EROSION CONTROL	SHEET	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\022201_EC.DWG PLOT DATE : 4/10/2018 12:32 PM PLOT BY : STONE, JAY E PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2

LEGEND

- HEAVY DUTY SILT FENCE (SEE SDD)
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- DRAINAGE ARROW
- TEMPORARY WETLAND IMPACT
- WETLAND TAKE AREA
- EROSION MAT CLASS 1 TYPE A
- EROSION MAT URBAN CLASS 1 TYPE B
- TEMPORARY SMALL ANIMAL TURN-AROUND

N

SEPTIC

R/W

SLOPE INTERCEPT

SILT FENCE

280 281 STH 49 282 283 284 285 286

BP: 10+00.00J

89°57'52"

11+00J

SIGN

R/W

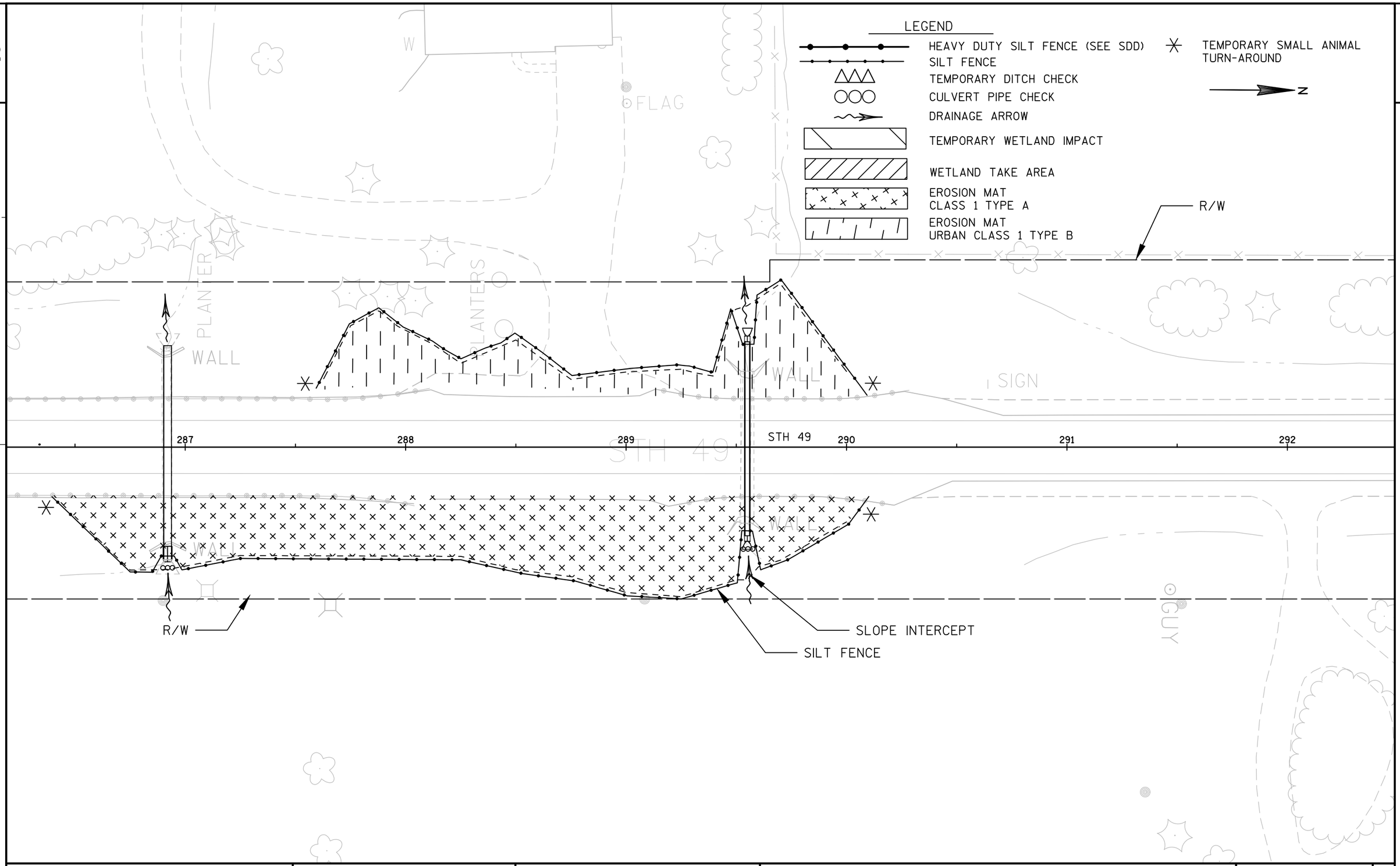
PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	EROSION CONTROL	SHEET	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\022201_EC.DWG PLOT DATE : 4/10/2018 12:32 PM PLOT BY : STONE, JAY E PLOT NAME : PLOT SCALE : 1:40_XREF

2

LEGEND

- HEAVY DUTY SILT FENCE (SEE SDD)
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- DRAINAGE ARROW
- TEMPORARY WETLAND IMPACT
- WETLAND TAKE AREA
- EROSION MAT CLASS 1 TYPE A
- EROSION MAT URBAN CLASS 1 TYPE B
- TEMPORARY SMALL ANIMAL TURN-AROUND
- N



PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	EROSION CONTROL	SHEET 118	E

2

2

LEGEND

- HEAVY DUTY SILT FENCE (SEE SDD)
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- DRAINAGE ARROW
- TEMPORARY WETLAND IMPACT
- WETLAND TAKE AREA
- EROSION MAT CLASS 1 TYPE A
- EROSION MAT URBAN CLASS 1 TYPE B
- TEMPORARY SMALL ANIMAL TURN-AROUND

N

WETLAND BOUNDARY

R/W

SLOPE INTERCEPT

SILT FENCE

297 298 299 300 STH 49 301 302 303

STH 49

SEPTIC

R/W

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	EROSION CONTROL	SHEET 119	E

LEGEND

HEAVY DUTY SILT FENCE (SEE SDD)
SILT FENCE
TEMPORARY DITCH CHECK
CULVERT PIPE CHECK
DRAINAGE ARROW
TEMPORARY WETLAND IMPACT
WETLAND TAKE AREA
EROSION MAT CLASS 1 TYPE A
EROSION MAT URBAN CLASS 1 TYPE B
TEMPORARY SMALL ANIMAL TURN-AROUND

RUINS
RUINS
N
R/W
303
304
305
STH 49
306
STH 49
307
308
SILT FENCE
SLOPE INTERCEPT
GUY
GUY
R/W

PROJECT NO:6210-00-72	HWY:STH 49	COUNTY:GREEN LAKE	EROSION CONTROL	SHEET 120	E

LEGEND

- HEAVY DUTY SILT FENCE (SEE SDD)
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- DRAINAGE ARROW
- TEMPORARY WETLAND IMPACT
- WETLAND TAKE AREA
- EROSION MAT CLASS 1 TYPE A
- EROSION MAT URBAN CLASS 1 TYPE B
- TEMPORARY SMALL ANIMAL TURN-AROUND

N

R/W

SILT FENCE

SLOPE INTERCEPT

PC: 330+99.98

SIGN

327 328 329 330 STH 49 331 332

R/W

2

PROJECT NO:6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	EROSION CONTROL	SHEET	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\022201_EC.DWG PLOT DATE : 4/10/2018 12:33 PM PLOT BY : STONE, JAY E PLOT NAME : PLOT SCALE : 1:40_XREF

2

LEGEND

- HEAVY DUTY SILT FENCE (SEE SDD)
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- DRAINAGE ARROW
- TEMPORARY WETLAND IMPACT
- WETLAND TAKE AREA
- EROSION MAT CLASS 1 TYPE A
- EROSION MAT URBAN CLASS 1 TYPE B
- TEMPORARY SMALL ANIMAL TURN-AROUND

N

WETLAND BOUNDARY

R/W

TEMPORARY WETLAND IMPACT
0.118 ACRES
N 043.938959
W 088.947025

TEMPORARY WETLAND IMPACT
0.006 ACRES
N 043.938983
W 088.946329

SILT FENCE

SLOPE INTERCEPT

R/W

PI: 336+26.63

PI: 15+00.00K

CTH V

14+00K

15+00K

16+00K

STH 49

332 333 334 335 336 337

SIGN

SIGN

SIGN

GUY

GUY

GUY

WETLAND BOUNDARY

R/W

R/W

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	EROSION CONTROL	SHEET 122	E

LEGEND

- HEAVY DUTY SILT FENCE (SEE SDD)
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- DRAINAGE ARROW
- TEMPORARY WETLAND IMPACT
- WETLAND TAKE AREA
- EROSION MAT CLASS 1 TYPE A
- EROSION MAT URBAN CLASS 1 TYPE B
- TEMPORARY SMALL ANIMAL TURN-AROUND

R/W

SILT FENCE

SLOPE INTERCEPT

SIGN

WALL

OLD HWY 49 SOUTH

PC: 8+42.09L

700+L

N

PT: 9+68.78L

STH 49

339 340 341 342 343 344

PI: 10+00.00L

1000+L

ALL SAINTS CHURCH DRIVEWAY

1200+L

SIGN

RIPRAP

R/W

INL

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	EROSION CONTROL	SHEET 123 E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\022201_EC.DWG PLOT DATE : 4/10/2018 12:33 PM PLOT BY : STONE, JAY E PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2

2

LEGEND

HEAVY DUTY SILT FENCE (SEE SDD)

SILT FENCE

TEMPORARY DITCH CHECK

CULVERT PIPE CHECK

DRAINAGE ARROW

TEMPORARY WETLAND IMPACT

WETLAND TAKE AREA

EROSION MAT
CLASS 1 TYPE A

EROSION MAT
URBAN CLASS 1 TYPE B

TEMPORARY SMALL ANIMAL TURN-AROUND

N

R/W

OLD HWY 49 NORTH

N64° 57' 16"E

R/W

SLOPE INTERCEPT

SILT FENCE

87°52'58"

STH 49

357 358 359 360 361 362

EP: 10+00.00M

PC: 362+49.55

SIGN

SEE DETAIL A

R/W

DETAIL A

EXTEND EXISTING 18"
1-18" X 8' CPCS
1-APRON ENDWALL
FOR CULVERT PIPE
SALVAGED 18 INCH

30'

30'

REMOVE FIXED OBJECTS 35'
FROM GUARD RAIL REQ'D
CLEAR AREA, CHIP MATERIAL,
LEAVE ON SITE USE CUT AND
STUMP CHEMICAL TREATMENT
ON BUCK THORN

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	EROSION CONTROL	SHEET 124	E

2

2

LEGEND

- HEAVY DUTY SILT FENCE (SEE SDD)
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- DRAINAGE ARROW
- TEMPORARY WETLAND IMPACT
- WETLAND TAKE AREA
- EROSION MAT CLASS 1 TYPE A
- EROSION MAT URBAN CLASS 1 TYPE B
- TEMPORARY SMALL ANIMAL TURN-AROUND

N

R/W

R/W

N00+8

PT: 8+14.85N

CTH A

S85° 38'08"E

WETLAND BOUNDARY

PERMITTED WETLAND TAKE #10
0.008 ACRES RPF
N N043.949082
E W088.947238

SILT FENCE

SLOPE INTERCEPT

367

EPT 10+00.00N

368

369

370

STH 49

371

372

STH 49

SIGN

SIGN

EAST A RD

11+00P

8° 16' 17"E

R/W

WETLAND BOUNDARY

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	EROSION CONTROL	SHEET 125	E

2

2

N

LEGEND

- HEAVY DUTY SILT FENCE (SEE SDD)
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- DRAINAGE ARROW
- TEMPORARY WETLAND IMPACT
- WETLAND TAKE AREA
- EROSION MAT CLASS 1 TYPE A
- EROSION MAT URBAN CLASS 1 TYPE B
- TEMPORARY SMALL ANIMAL TURN-AROUND

WETLAND BOUNDARY

R/W

STH 49

374

375

376

377

378

379

380

HEAVY DUTY SILT FENCE

SILT FENCE

SLOPE INTERCEPT

PERMITTED WETLAND TAKE #12
0.006 ACRES RPF
N N043.951298
E W088.946542

WETLAND BOUNDARY

R/W

PERMITTED WETLAND TAKE #11
0.005 ACRES RPF
N N043.951232
E W088.946231

PROJECT NO:6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	EROSION CONTROL	SHEET	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\022201_EC.DWG PLOT DATE : 4/10/2018 12:33 PM PLOT BY : STONE, JAY E PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2

N

LEGEND

- HEAVY DUTY SILT FENCE (SEE SDD)
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- DRAINAGE ARROW
- TEMPORARY WETLAND IMPACT
- WETLAND TAKE AREA
- EROSION MAT CLASS 1 TYPE A
- EROSION MAT URBAN CLASS 1 TYPE B
- TEMPORARY SMALL ANIMAL TURN-AROUND

R/W

HEAVY DUTY SILT FENCE

SLOPE INTERCEPT

SILT FENCE

PERMITTED WETLAND TAKE #14
0.008 ACRES RPF
N N043.954127
E W088.945022

WETLAND BOUNDARY

386 387 STH 49 388 389 390 391 392

WETLAND BOUNDARY

PERMITTED WETLAND TAKE #13
0.002 ACRES RPF
N N043.954037
E W088.944718

R/W

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	EROSION CONTROL	SHEET 127	E

2

2

LEGEND

- HEAVY DUTY SILT FENCE (SEE SDD)
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- DRAINAGE ARROW
- TEMPORARY WETLAND IMPACT
- WETLAND TAKE AREA
- EROSION MAT CLASS 1 TYPE A
- EROSION MAT URBAN CLASS 1 TYPE B
- TEMPORARY SMALL ANIMAL TURN-AROUND

N

R/W

WETLAND BOUNDARY

STH 49

393

394

395

396

397

398

PERMITTED WETLAND TAKE #16
0.007 ACRES RPF
N NO43.956417
E WO88.943759

WETLAND BOUNDARY

SILT FENCE

HEAVY DUTY SILT FENCE

SLOPE INTERCEPT

R/W

PERMITTED WETLAND TAKE #15
0.002 ACRES RPF
N NO43.956324
E WO88.943441

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	EROSION CONTROL	SHEET 128	E

LEGEND

- HEAVY DUTY SILT FENCE (SEE SDD)
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- DRAINAGE ARROW
- TEMPORARY WETLAND IMPACT
- WETLAND TAKE AREA
- EROSION MAT CLASS 1 TYPE A
- EROSION MAT URBAN CLASS 1 TYPE B
- TEMPORARY SMALL ANIMAL TURN-AROUND

R/W

WETLAND BOUNDARY

SILT FENCE

SLOPE INTERCEPT

PERMITTED WETLAND TAKE #19
0.014 ACRES RPF
N N043.960531
E W088.941894

STH 49

410 411 412 413 414 415

SILT FENCE

HEAVY DUTY SILT FENCE

PERMITTED WETLAND TAKE #17
0.006 ACRES RPF
N N043.959698
E W088.941753

PERMITTED WETLAND TAKE #18
0.003 ACRES RPF
N N043.960353
E W088.941617

WETLAND BOUNDARY

R/W

PROJECT NO:6210-00-72	HWY:STH 49	COUNTY:GREEN LAKE	EROSION CONTROL	SHEET 129 E

2

J2-4
96"X57"

1-01

EAST M3-2 24"X12"
SOUTH M3-3 24"X12"
WEST M3-4 24"X12"

23 M1-6 24"X24"
49 M1-6 24"X24"
COUNTY A M1-5A 24"X24"
23 M1-6 24"X24"

M5-1L 21"X21"
M5-1L 21"X21"
M6-1 21"X21"
M5-1R 21"X21"

CROSSROADS MARKET & FUEL .3
DARTFORD INN / MOTEL .2
TO REMAIN

MOVE SIGN FROM STA. 30+50 TO STA. 32+50

1-02
MOVE

1-03
W3-3
36"X36"

J1-1
24"X39"

1-04
JCT
M2-1
21"X15"
23 M1-6 24"X24"

1-05
SOUTH REMOVE
49 REMOVE
REMOVE

1-06
JCT REMOVE
23 REMOVE

1-07
FOOD EAST McDONALDS
HWY 23 WEST PIZZA
TO REMAIN

STH 23
LAWSON DRIVE
BP: 25+00.00
STH 49
BERLIN RD
FOOTBRIDGE
N

25 30 35 40 45 50 55

SPONSOR BADGER MINING CORPORATION
TO REMAIN

NORTH 49
TO REMAIN

SPEED LIMIT 55
TO REMAIN

BERLIN 8
D2-1
72"X21"

Berlin 8
REMOVE

1-08

NO PASSING ZONE
W14-3
48"X36"
1-09

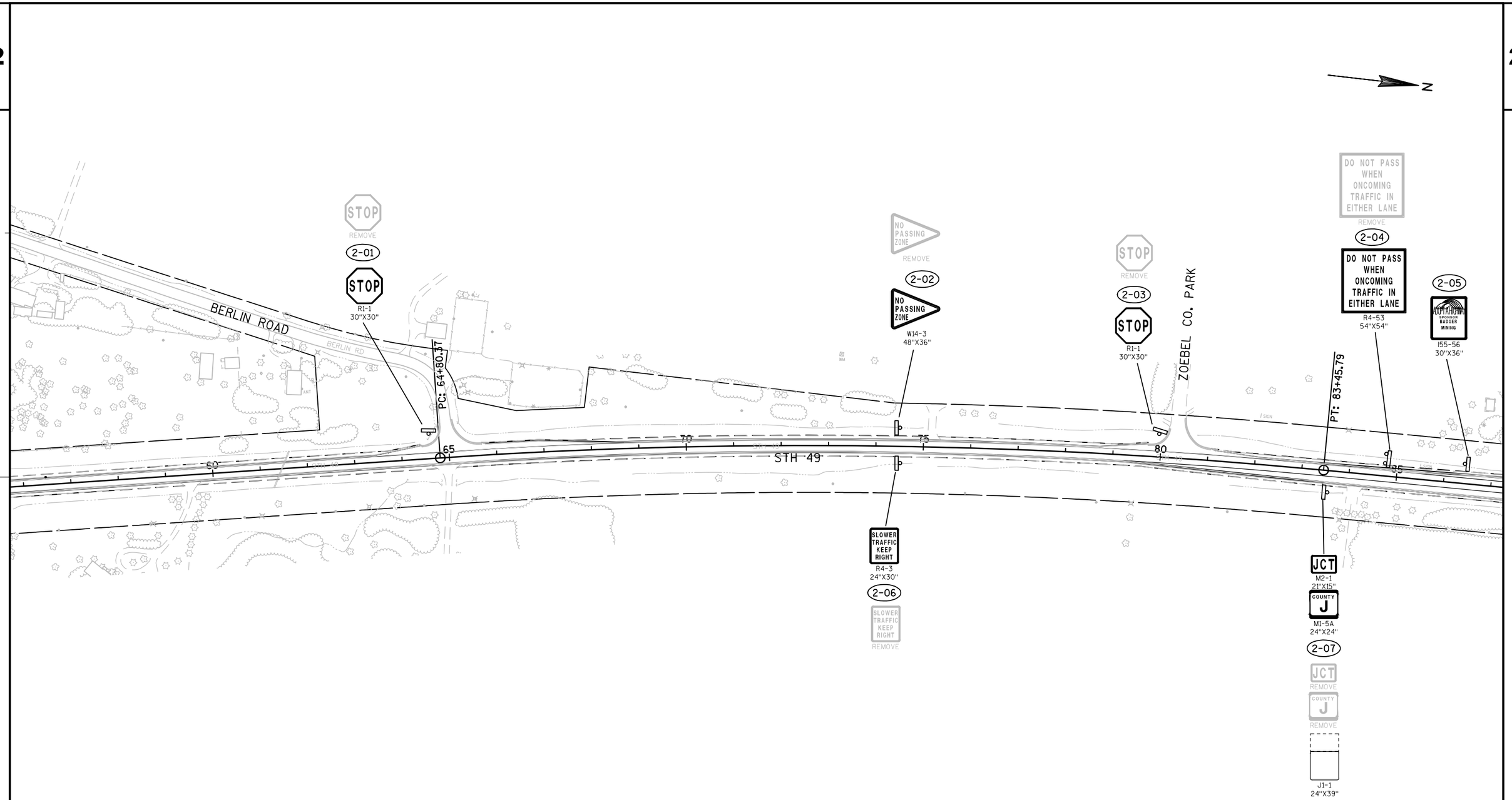
NO PASSING ZONE
REMOVE

PASSING LANE AHEAD 1/2MILES
R4-51A
36"X48"
1-10

PASSING LANE AHEAD 1/2MILES
REMOVE

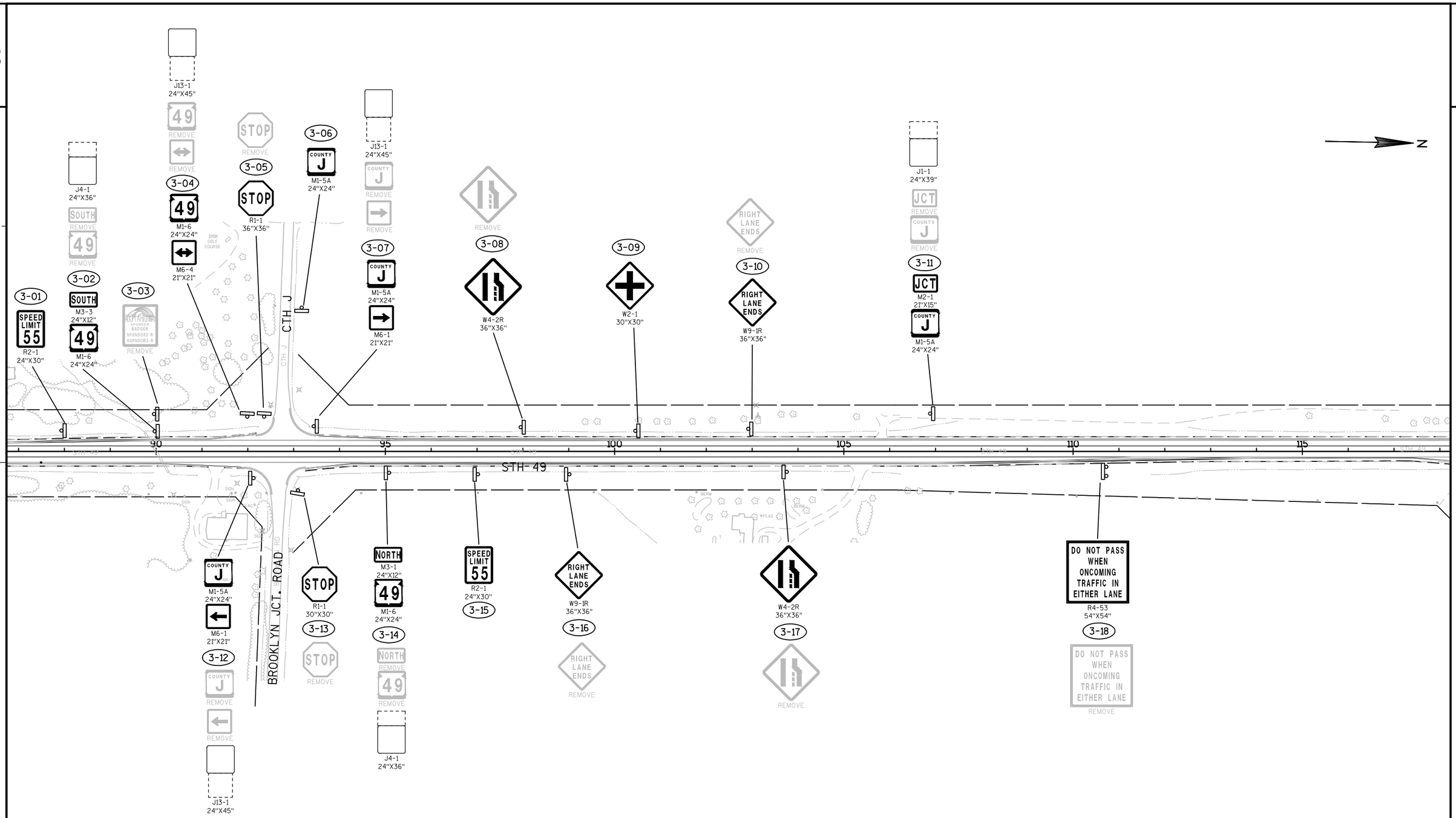
BEGIN PROJECT
STA 35+00

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PERMANENT SIGNING	SHEET 130	E



PROJECT NO:6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PERMANENT SIGNING	SHEET	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\023201_PS.DWG PLOT DATE : 4/10/2018 12:35 PM PLOT BY : STONE, JAY E PLOT NAME : PLOT SCALE : 1 IN:200 FT



PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PERMANENT SIGNING	SHEET 132	E

2

2

N

SLOWER TRAFFIC KEEP RIGHT
REMOVE

4-01

SLOWER TRAFFIC KEEP RIGHT
R4-3
24"X30"

STOP
REMOVE

4-02

STOP
R1-1
30"X30"

BLUFFTON ROAD

120 125 130 135 140 145

STH 49

MC CONNEL ROAD

STOP
R1-1
30"X30"

4-03

STOP
REMOVE

NO PASSING ZONE
W14-3
48"X36"

4-04

NO PASSING ZONE
REMOVE

B-24-0004

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PERMANENT SIGNING	SHEET 133	E

2

N

PASSING LANE AHEAD 1/2MILES
REMOVE
5-01
PASSING LANE AHEAD 1/2MILES
R4-51A
36"X48"

NO PASSING ZONE
REMOVE
5-02
NO PASSING ZONE
W14-3
48"X36"

NO ENGINE BRAKING EXCEPT IN EMERGENCY
TO REMAIN

REMOVE
5-03
W1-7
48"X24"

150 155 160 165 170 175 180

STH 49

TOWNLINE ROAD

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

5-05
TO REMAIN

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PERMANENT SIGNING	SHEET 134	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\023201_PS.DWG PLOT DATE : 4/10/2018 12:36 PM PLOT BY : STONE, JAY E PLOT NAME : PLOT SCALE : 1 IN:200 FT

2

N

SPRING BROOK ROAD

STOP
REMOVE
6-01

STOP
R1-1
30"X30"

PC: 190+76.52

PT: 195+71.19

180 185 190 195 200 205 210

STH 49

NO PASSING ZONE
W14-3
48"X36"
6-02

NO PASSING ZONE
REMOVE

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PERMANENT SIGNING	SHEET 135	E

2

N

NO PASSING ZONE
REMOVE
7-01
NO PASSING ZONE
W14-3
48"X36"

215 220 225 230 235 240

STH 49

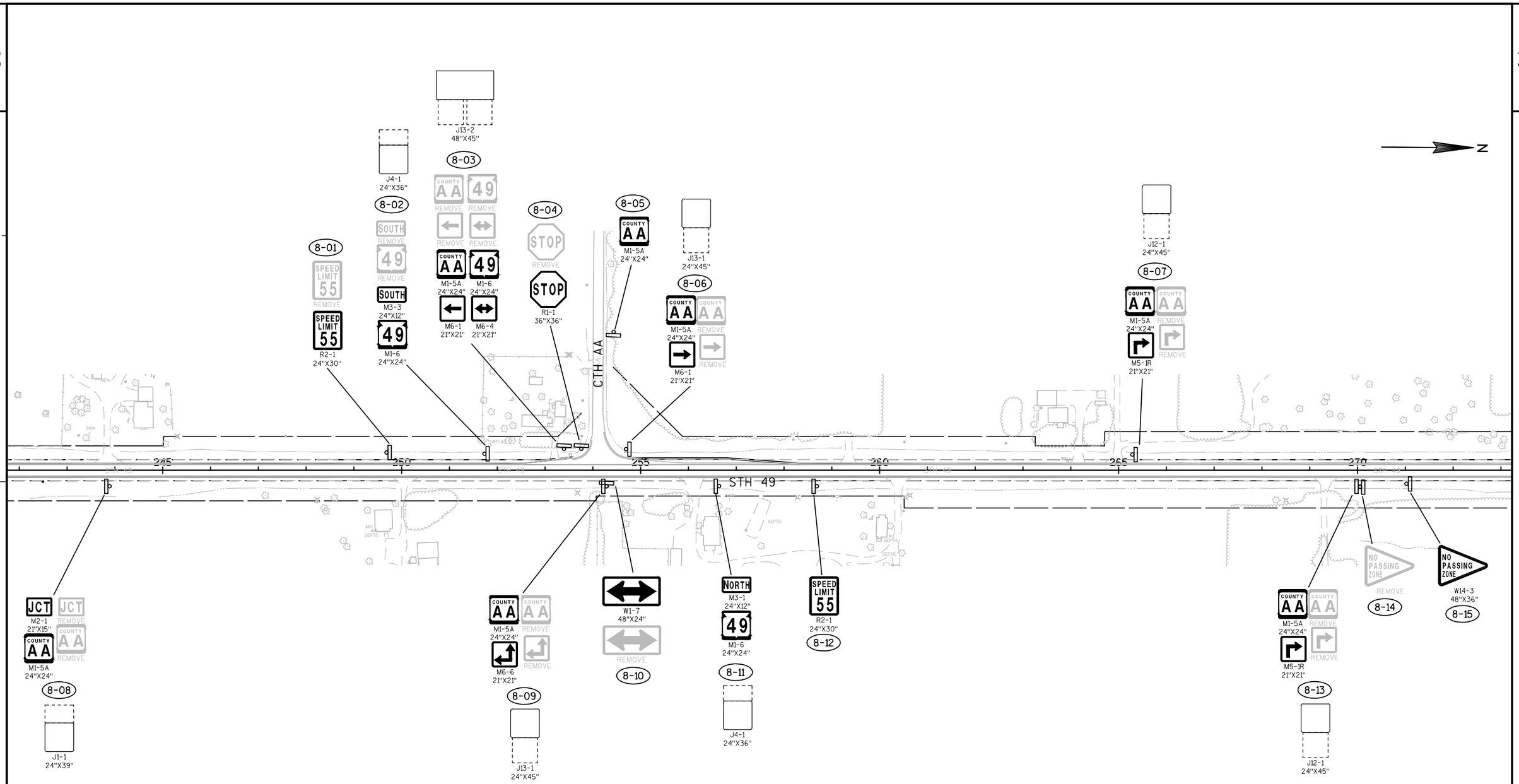
FOREST RIDGE ROAD

STOP
R1-1
30"X30"
7-02
STOP
REMOVE

B-24-0443

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PERMANENT SIGNING	SHEET 136	E

2



PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PERMANENT SIGNING	SHEET 137	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\023201_PS.DWG PLOT DATE : 4/10/2018 12:36 PM PLOT BY : STONE, JAY E PLOT NAME : PLOT SCALE : 1 IN:200 FT

2

N

9-01
TO REMAIN

9-02
R2-1
24"X30"

9-03
J4-1
24"X36"
M3-3
24"X12"
M1-6
24"X24"

REMOVE
9-04
W1-7
48"X24"

J13-1
24"X45"
REMOVE
9-05
M1-5A
24"X24"
M6-6
21"X21"

J1-1
24"X39"
REMOVE
9-06
M2-1
21"X15"
M1-5A
24"X24"

275 280 285 290 295 300

STH 49

CTH AA

M1-5A
24"X24"
M6-1
21"X21"
9-07
REMOVE
REMOVE
J13-1
24"X45"

R1-1
36"X36"
9-08
REMOVE

M1-5A
24"X24"
M1-6
24"X24"
M6-1
21"X21"
M6-4
21"X21"
9-09
REMOVE
REMOVE
REMOVE
REMOVE
J13-2
48"X45"

M3-1
24"X12"
M1-6
24"X24"
9-10
REMOVE
REMOVE
J4-1
24"X36"

R2-1
24"X30"
9-11

TO REMAIN
9-12

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PERMANENT SIGNING	SHEET 138	E

2

N

NO PASSING ZONE
REMOVE

10-01
NO PASSING ZONE
W14-3
48"X36"

10-02
SPEED LIMIT 55
R2-1
24"X30"

PC: 330+99.98

J4-1
24"X36"
SOUTH
REMOVE
49
REMOVE

10-03
SOUTH
M3-3
24"X12"
49
M1-6
24"X24"

J13-1
24"X45"
49
REMOVE

10-04
49
M1-6
24"X24"
M6-4
21"X21"

STOP
REMOVE

10-05
STOP
R1-1
36"X36"

CTH V

J13-1
24"X45"
COUNTY V
REMOVE

10-06
COUNTY V
M1-5A
24"X24"
M6-4
21"X21"

305 310 315 320 325 330 335

STH 49

JCT
M2-1
21"X15"
COUNTY V
M1-5A
24"X24"

10-07
JCT
REMOVE
COUNTY V
REMOVE
J1-1
24"X39"

COUNTY V
M1-5A
24"X24"
M6-4
21"X21"

10-08
COUNTY V
REMOVE
REMOVE
J13-1
24"X45"

STOP
R1-1
36"X36"

10-09
STOP
REMOVE

CTH V

49
M1-6
24"X24"
M6-4
21"X21"

10-10
49
REMOVE
REMOVE
J13-1
24"X45"

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PERMANENT SIGNING	SHEET 139 E

2

N

PI: 336+26.63

PC: 362+49.55

OLD HWY 49

STH 49

335 340 345 350 355 360 365

REMOVE
11-01
STOP
R1-1
30"X30"

REMOVE
11-02
W4-2R
36"X36"

J1-1
24"X39"
JCT
REMOVE
COUNTY V
REMOVE
11-03
JCT
M2-1
21"X15"
COUNTY V
M1-5A
24"X24"

REMOVE
11-04
RIGHT LANE ENDS
W9-1R
36"X36"

REMOVE
11-05

REMOVE
11-06
STOP
R1-1
30"X30"

11-07
SPEED LIMIT 55
R2-1
24"X30"

SLOWER TRAFFIC KEEP RIGHT
REMOVE
11-08
SLOWER TRAFFIC KEEP RIGHT
R4-3
24"X30"

J4-1
24"X36"
SOUTH
REMOVE
49
REMOVE
11-09
SOUTH
M3-3
24"X12"
49
M1-6
24"X24"

ONCOMING TRAFFIC USES CENTER LANE
R3-72
30"X36"
11-10
ONCOMING TRAFFIC USES CENTER LANE
REMOVE

NORTH
REMOVE
49
REMOVE
11-11

NORTH
M3-1
24"X12"
49
M1-6
24"X24"

SPEED LIMIT 55
R2-1
24"X30"
11-12

STOP
TO REMAIN
11-13

JCT
M2-1
21"X15"
COUNTY A
M1-5A
24"X24"
11-14
JCT
REMOVE
COUNTY A
REMOVE

J1-1
24"X39"

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PERMANENT SIGNING	SHEET 140	E

2

N

CTH A

STH 49

310 315 320 325 330 335 340 345 350 355 360 365 370 375 380 385 390 395

PT: 382+31.92

J13-1
24"X45"
49
REMOVE
REMOVE
12-01
49
M1-6
24"X24"
M6-4
21"X21"

STOP
REMOVE
12-02
STOP
R1-1
36"X36"

J13-1
24"X45"
COUNTY A
REMOVE
REMOVE
12-03
COUNTY A
M1-5A
24"X24"
M6-1
21"X21"

12-04
SLOWER TRAFFIC KEEP RIGHT
REMOVE ONLY

J1-1
24"X39"
JCT
REMOVE
COUNTY A
REMOVE
12-05
JCT
M2-1
21"X15"
COUNTY A
M1-5A
24"X24"

12-06
END CITY LIMITS
TO REMAIN

NO PASSING ZONE
REMOVE
12-07
NO PASSING ZONE
W14-3
48"X36"

PASSING LANE AHEAD 1/2MILES
REMOVE
12-08
PASSING LANE AHEAD 1/2MILES
R4-51A
36"X48"

COUNTY A
M1-5A
24"X24"
M6-1
21"X21"
12-09
COUNTY A
REMOVE
REMOVE
J13-1
24"X45"

STOP
R1-1
30"X30"
12-10
STOP
REMOVE

NORTH
M3-1
24"X12"
49
M1-6
24"X24"
12-11
NORTH
REMOVE
49
REMOVE
J4-1
24"X36"

SPEED LIMIT 55
R2-1
24"X30"
12-12

NO PASSING ZONE
W14-3
48"X36"
12-14
NO PASSING ZONE
REMOVE

BERLIN
POPULATION 5524
TO REMAIN
12-13

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PERMANENT SIGNING	SHEET 141	E

2

N

END PROJECT
STA. 415+13
SAW CUT REQ'D

PC: 404+83.25

PT: 419+96.19

EP: 422+31.12

SOUTH ST.

395

400

405

410

415

420

STH 49

13-01

SPONSOR BERLIN BUGLE BASS
TO REMAIN

13-02

SPEED LIMIT 55
R2-1
24"X30"

SPEED LIMIT 55
REMOVE

TRUCK ROUTES HAVE YELLOW SIGN POSTS

WINTER PARKING RESTRICTED CONTACT POLIC DEPT FOR INFORMATION
TO REMAIN

13-03

SPEED LIMIT 35
W3-5
36"X36"

13-04

SPEED LIMIT 35
REMOVE

SPEED LIMIT 35
R2-1
24"X30"

13-05

SPEED LIMIT 35
REMOVE

SOUTH ST.

JUNE ST

CTH F

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PERMANENT SIGNING	SHEET 142	E

2

2

N

RIPRAP

SIGN

SIGN

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

39+00 40+00 STH 49 41+00 42+00 43+00 44+00 45+00 46+00

12'
12'

STH 49

SIGN

RIPRAP

4" EPOXY (YELLOW)

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

SEE S.D.D. LONGITUDINAL MARKING (MAINLINE)

N

RIPRAP

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

46+00 47+00 STH 49 48+00 49+00 50+00 51+00 52+00 53+00

12'
12'

STH 49

4" EPOXY (YELLOW)

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

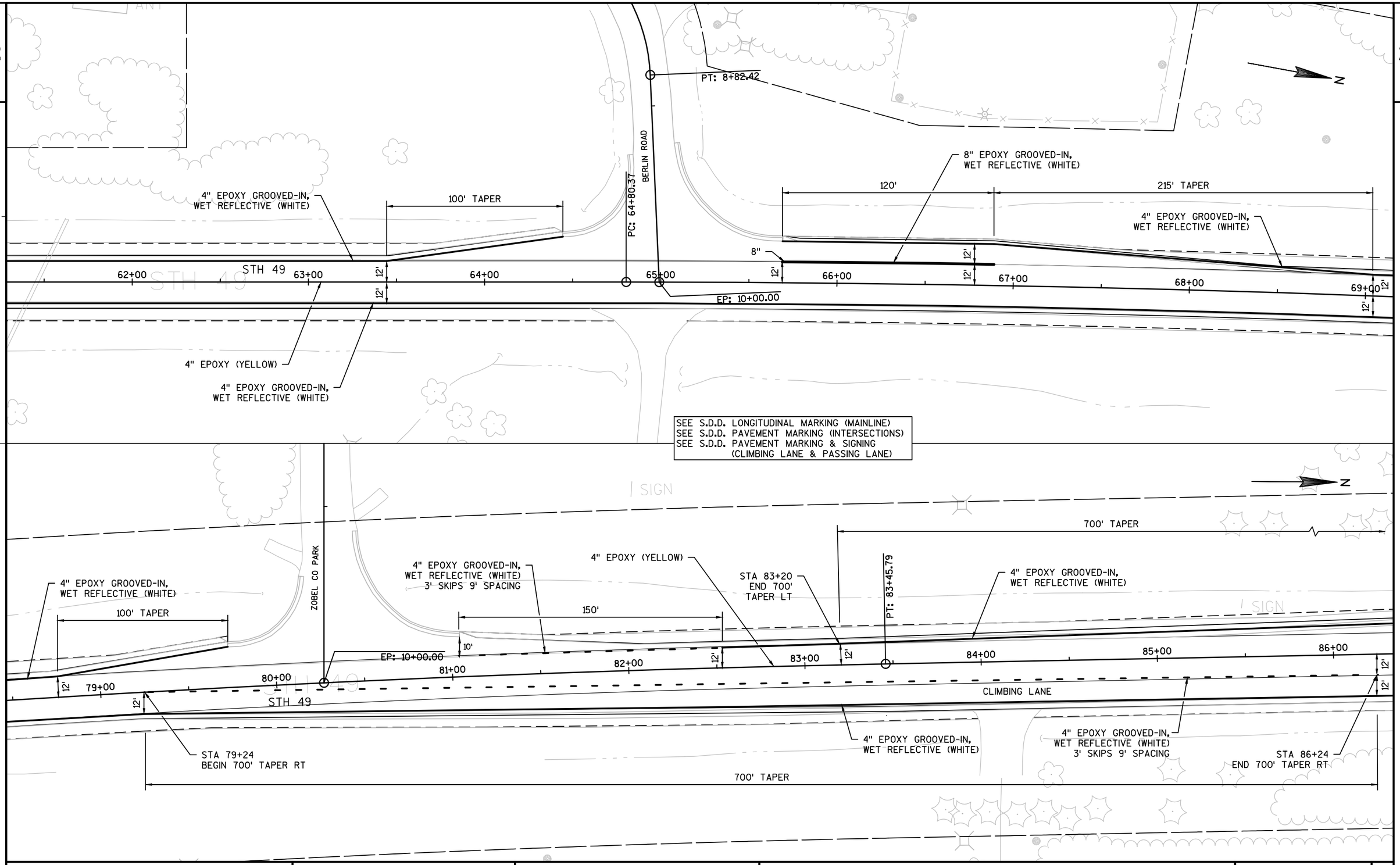
RIPRAP

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT MARKING DETAIL	SHEET	E

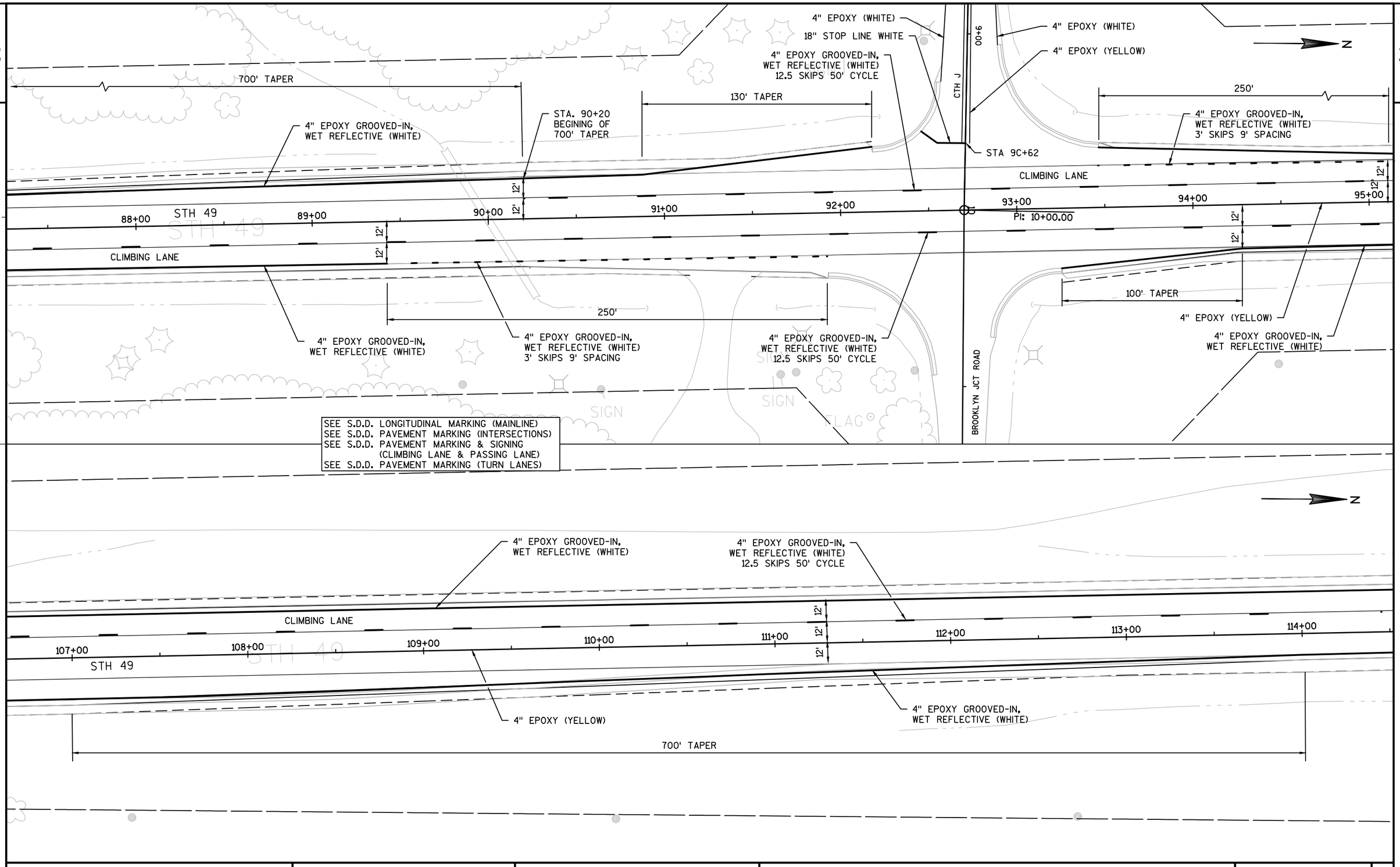
FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\024501-PM.DWG PLOT DATE : 4/10/2018 12:39 PM PLOT BY : STONE, JAY E PLOT NAME : PLOT SCALE : 1:50_XREF

WISDOT/CADDS SHEET 42

2



PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT MARKING DETAIL	SHEET 144	E



SEE S.D.D. LONGITUDINAL MARKING (MAINLINE)
SEE S.D.D. PAVEMENT MARKING (INTERSECTIONS)
SEE S.D.D. PAVEMENT MARKING & SIGNING (CLIMBING LANE & PASSING LANE)
SEE S.D.D. PAVEMENT MARKING (TURN LANES)

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT MARKING DETAIL	SHEET	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\024501-PM.DWG PLOT DATE : 4/10/2018 12:40 PM PLOT BY : STONE, JAY E PLOT NAME : PLOT SCALE : 1:50_XREF

2

N

700' TAPER

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)
12.5' SKIPS 50' CYCLE

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)
3' SKIPS 9' SPACING

CLIMBING LANE

STH 49

116+00 117+00 118+00 119+00 120+00 121+00 122+00 123+00

BP: 10+00.00

12' +00

12'

12'

12'

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

150'

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)
3' SKIPS 9' SPACING

4" EPOXY (YELLOW)

100' TAPER

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

MC CONNEL ROAD

SEE S.D.D. LONGITUDINAL MARKING (MAINLINE)
SEE S.D.D. PAVEMENT MARKING (INTERSECTIONS)
SEE S.D.D. PAVEMENT MARKING & SIGNING
(CLIMBING LANE & PASSING LANE)

N

700' TAPER

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)
3' SKIPS 9' SPACING

12' +00

CLIMBING LANE

12' 121+00 122+00 123+00 124+00 125+00 126+00 127+00 128+00 +00

12'

12'

12'

STH 49

4" EPOXY (YELLOW)

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT MARKING DETAIL	SHEET 146	E

2

BLUFFTON ROAD

N

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)
3' SKIPS 9' SPACING

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

190' TAPER

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

100' TAPER

129+00 STH 49 130+00 131+00 132+00 133+00 134+00 135+00 136+00

12' 12' 12' 12'

EP: 10+00.00

STH 49

4" EPOXY (YELLOW)

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

SEE S.D.D. LONGITUDINAL MARKING (MAINLINE)
SEE S.D.D. PAVEMENT MARKING (INTERSECTIONS)

N

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

137+00 138+00 139+00 140+00 141+00 142+00 143+00 144+00

12' 12' 12' 12'

STH 49

STH 49

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

4" EPOXY (YELLOW)

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT MARKING DETAIL	SHEET 147	E

2

N

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

4" EPOXY (YELLOW)

171+00 172+00 173+00 174+00 175+00 176+00 177+00 178+00

BP: 10+00.00

12' 12' 12' 12'

STH 49

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

120'

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)
3' SKIPS 9' SPACING

100' TAPER

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

18" STOP LINE WHITE

STA 10F+45

TOWNLINE ROAD

SIGN

SEPV

SEE S.D.D. LONGITUDINAL MARKING (MAINLINE)
SEE S.D.D. PAVEMENT MARKING (INTERSECTIONS)

N

PT: 195+71.19

4" EPOXY (YELLOW)

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

196+00 197+00 198+00 199+00 200+00 201+00 202+00 203+00

12' 12' 12' 12'

STH 49

STH 49

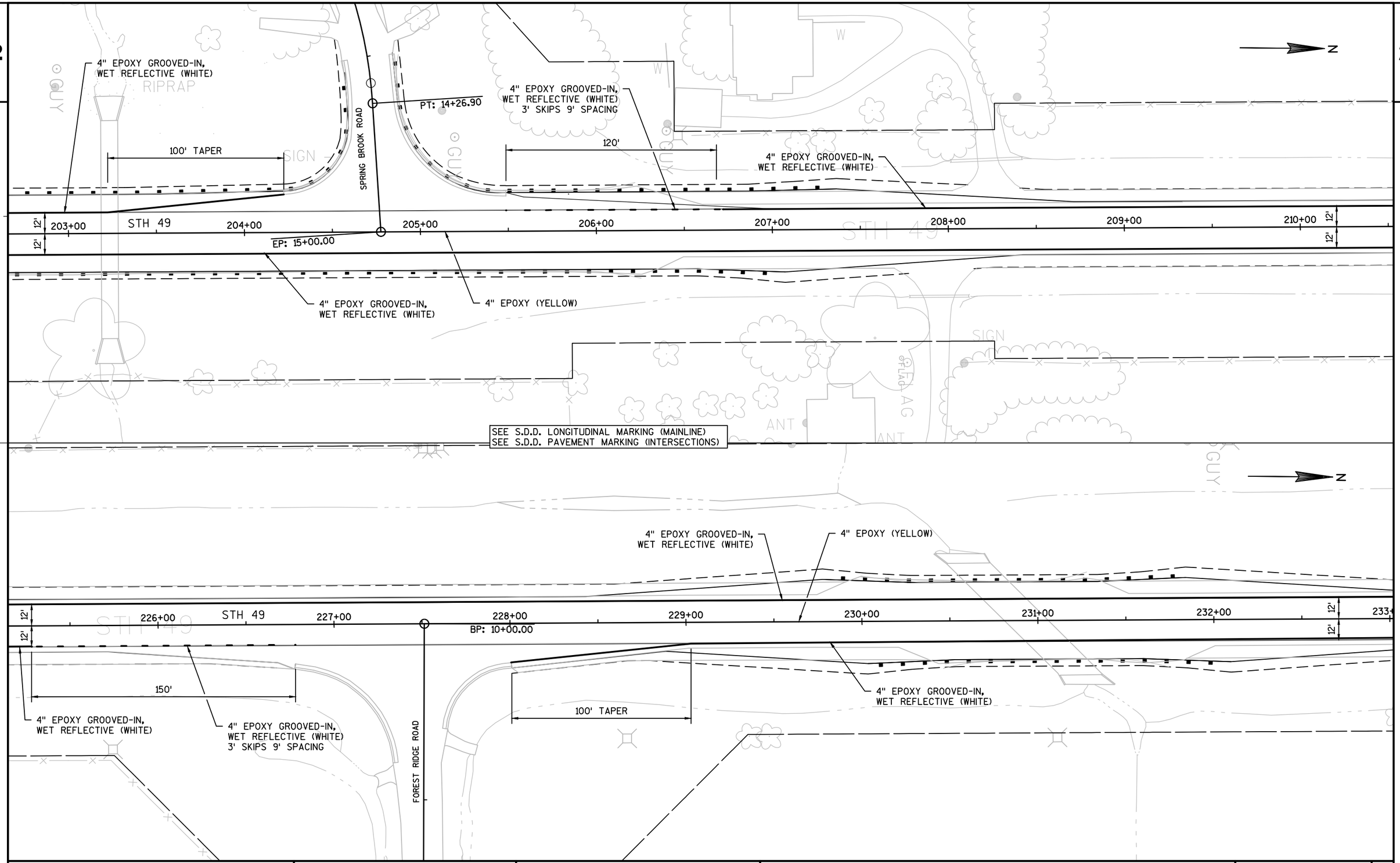
SIGN

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

GUY

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT MARKING DETAIL	SHEET	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\024501-PM.DWG PLOT DATE : 4/10/2018 12:40 PM PLOT BY : STONE, JAY E PLOT NAME : PLOT SCALE : 1:50_XREF



PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT MARKING DETAIL	SHEET	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\024501-PM.DWG PLOT DATE : 4/10/2018 12:40 PM PLOT BY : STONE, JAY E PLOT NAME : PLOT SCALE : 1:50_XREF

2

STA 9"I"+16

4" EPOXY (WHITE)

4" EPOXY (YELLOW)

CTH AA (WEST)

4" EPOXY GROOVED-IN, WET REFLECTIVE (WHITE)

4" EPOXY (WHITE)

100' TAPER

STA 9"I"+77

8" EPOXY GROOVED-IN, WET REFLECTIVE (WHITE)

4" EPOXY GROOVED-IN, WET REFLECTIVE (WHITE)

200'

150' TAPER

N

251+00 252+00 253+00 254+00 255+00 256+00 257+00 258+00

EP: 10+00.00

12' 12' 10' 12' 12'

STH 49

4" EPOXY GROOVED-IN, WET REFLECTIVE (WHITE)

4" EPOXY (YELLOW)

SIGN

SEPTIC

SEE S.D.D. LONGITUDINAL MARKING (MAINLINE)
SEE S.D.D. PAVEMENT MARKING (INTERSECTIONS)

FLAG

4" EPOXY (YELLOW)

4" EPOXY GROOVED-IN, WET REFLECTIVE (WHITE)

N

277+00 278+00 279+00 280+00 281+00 282+00 283+00 284+00

BP: 10+00.00

12' 12' 12' 12' 12'

STH 49

STA 10J+23

8" EPOXY GROOVED-IN, WET REFLECTIVE (WHITE)

150' TAPER

200'

100' TAPER

4" EPOXY GROOVED-IN, WET REFLECTIVE (WHITE)

4" EPOXY (YELLOW)

4" EPOXY (WHITE)

4" EPOXY GROOVED-IN, WET REFLECTIVE (WHITE)

4" EPOXY (WHITE)

CTH AA (EAST)

STA 11J+28

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT MARKING DETAIL	SHEET 150	E

2

2

PLANTER

PLANTERS

WALL

WALL

SIGN

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

284+00 285+00 286+00 287+00 288+00 289+00 290+00 291+00

12' 12' 12' 12'

STH 49 STH 49

SIGN

WALL

WALL

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

4" EPOXY (YELLOW)

GUY

SEE S.D.D. LONGITUDINAL MARKING (MAINLINE)

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

298+00 299+00 300+00 301+00 302+00 303+00 304+00 305+00

12' 12' 12' 12'

STH 49 STH 49

4" EPOXY (YELLOW)

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

GUY

GUY

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT MARKING DETAIL	SHEET	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\024501-PM.DWG PLOT DATE : 4/10/2018 12:41 PM PLOT BY : STONE, JAY E PLOT NAME : PLOT SCALE : 1:50_XREF

WISDOT/CADDS SHEET 42

2

N

700' TAPER

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

+25

STH 49

323+00 | 324+00 | 325+00 | 326+00 | 327+00 | 328+00 | 329+00 | +62 | 330+00

12' | 12' | 14' | 12'

4" EPOXY (YELLOW)

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

150' TAPER

SEE S.D.D. LONGITUDINAL MARKING (MAINLINE)
SEE S.D.D. PAVEMENT MARKING (INTERSECTIONS)
SEE S.D.D. PAVEMENT MARKING & SIGNING
(CLIMBING LANE & PASSING LANE)

4" EPOXY (WHITE)

4" EPOXY (YELLOW)

8" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

150' TAPER

200'

PT: 336+26.63

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

100' TAPER

PC: 330+99.98

CTH V

14K+67

CLIMBING LANE

STH 49

331+00 | 332+00 | 333+00 | 334+00 | 335+00 | 336+00 | 337+00 | 338+00

12' | 12' | 12' | 12' | 12' | 12' | 10'

15K+22

4" EPOXY (YELLOW)

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)
12.5' SKIPS 50' CYCLE

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

100' TAPER

150'
TAPER

200'

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

8" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

4" EPOXY (WHITE)

4" EPOXY (YELLOW)

4" EPOXY (WHITE)

CTH V

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT MARKING DETAIL	SHEET 152	E

2

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)
12.5' SKIPS 50' CYCLE

PT: 9+68.78

OLD HIGHWAY 49 (SOUTH)

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)
3' SKIPS 9' SPACING

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

N

150'

12'

STH 49

+00 339+00 340+00 341+00 342+00 343+00 344+00 345+00

PI: 10+00.00

12' 12' 12' 12' 15'

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

4" EPOXY
(YELLOW)

100'

100' TAPER

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

8" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

SEE S.D.D. LONGITUDINAL MARKING (MAINLINE)
SEE S.D.D. PAVEMENT MARKING (INTERSECTIONS)
SEE S.D.D. PAVEMENT MARKING & SIGNING
(CLIMBING LANE & PASSING LANE)

DRIVEWAY FOR ALL SAINTS CATHOLIC CHURCH

OLD HWY 49 (NORTH)

N

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)
12.5' SKIPS 50' CYCLE

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

75' TAPER

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)
3' SKIPS 9' SPACING

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

150'

CLIMBING LANE

353+00 STH 49 354+00 355+00 356+00 357+00 358+00 359+00 360+00

EP: 10+00.00

4" EPOXY
(YELLOW)

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT MARKING DETAIL	SHEET 153	E

2

4" EPOXY (WHITE)

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)
12.5' SKIPS 50' CYCLE

4" EPOXY (YELLOW)

100' TAPER

366+35

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

CLIMBING LANE

STH 49

364+00

365+00

366+00

12'

BY-PASS LANE

150'

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)
3' SKIPS 9' SPACING

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)
12.5' SKIPS 50' CYCLE

CTH A

STA 9+66

367+00

EAST A ROAD

4" EPOXY (WHITE)

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

8" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

700' TAPER

200'

150' TAPER

EP: 10+00.00

368+00

369+00

370+00

371+00

13'

BP: 10+00.00

4" EPOXY
(YELLOW)

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)
3' SKIPS 9' SPACING

8" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)
3' SKIPS 9' SPACING

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

N

SEE S.D.D. LONGITUDINAL MARKING (MAINLINE)
SEE S.D.D. PAVEMENT MARKING (INTERSECTIONS)
SEE S.D.D. PAVEMENT MARKING & SIGNING
(CLIMBING LANE & PASSING LANE)

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)
3' SKIPS 9' SPACING

700' TAPER

4" EPOXY YELLOW

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

372+00

373+00

+35

374+00

375+00

376+00

377+00

378+00

STH 49

4" EPOXY GROOVED-IN,
WET REFLECTIVE (WHITE)

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT MARKING DETAIL	SHEET 154	E

2

403+00 STH 49

404+00 12'

12'

PC: 404+83.25

405+00

406+00 12'

12'

407+00

408+00

12'

409+00

12'

410+00

4" EPOXY (YELLOW)

4" GROOVED-IN, WET REFLECTIVE (WHITE)

4" GROOVED-IN, WET REFLECTIVE (WHITE)

BADGER MINING DRIVEWAY

SIGN

STH 49

N

2

SEE S.D.D. LONGITUDINAL MARKING (MAINLINE)

12' 411+00 STH 49

12'

412+00 12'

12'

413+00

414+00 12'

12'

415+00

416+00

417+00

4" EPOXY (YELLOW)

4" EPOXY GROOVED-IN, WET REFLECTIVE (WHITE)

4" EPOXY GROOVED-IN, WET REFLECTIVE (WHITE)

END PROJECT
STA.415+13
MATCH EXISTING
SAW CUT REQ'D

SOUTH ST

WALL

WALL

SIGN

SIGN

SIGN

PLANTER

GUY

MH

INL

W

TANKS

BIKE PATH

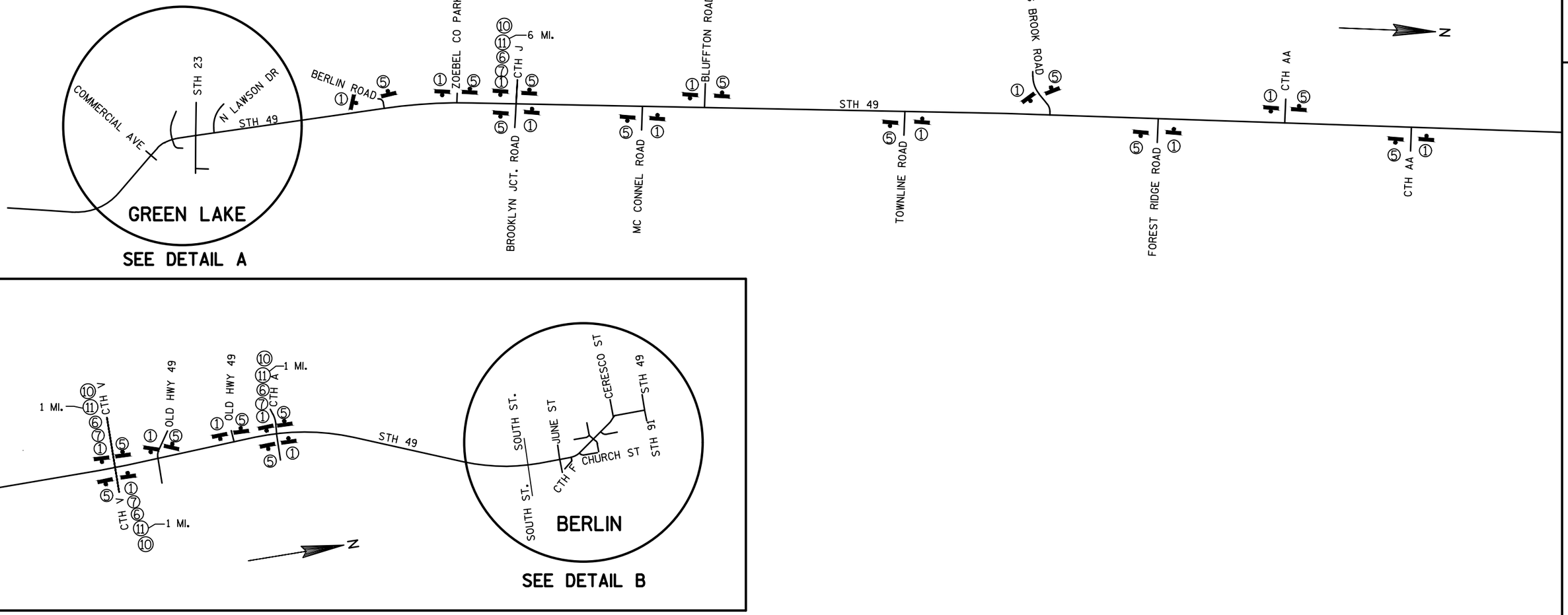
N

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PAVEMENT MARKING DETAIL	SHEET 155	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\024501-PM.DWG PLOT DATE : 4/10/2018 12:41 PM PLOT BY : STONE, JAY E PLOT NAME : PLOT SCALE : 1:50_XREF

WISDOT/CADDS SHEET 42

ADVANCED WARNING SIGNING



NOTE: ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

SEE SDD 15 C 4-4 TRAFFIC CONTROL ADVANCE WARNING SIGNS 45 MPH OR GREATER TWO-DAY UNDIVIDED ROAD OPEN TO TRAFFIC

① ROAD WORK AHEAD W20-1-A
② ROAD WORK 1000 FT W20-1-C
③ ROAD WORK 500 FT W20-1-D

1000' 500' 500' TO BOP

④ ROAD WORK NEXT 8 MILES
G20-1
48"X24"

⑤ END ROAD WORK
G20-2A
48" X 24"

⑥ 49
M1-6
24"X24"

⑦ NORTH
M3-1
24"X12"

⑧ SOUTH
M3-3
24"X12"

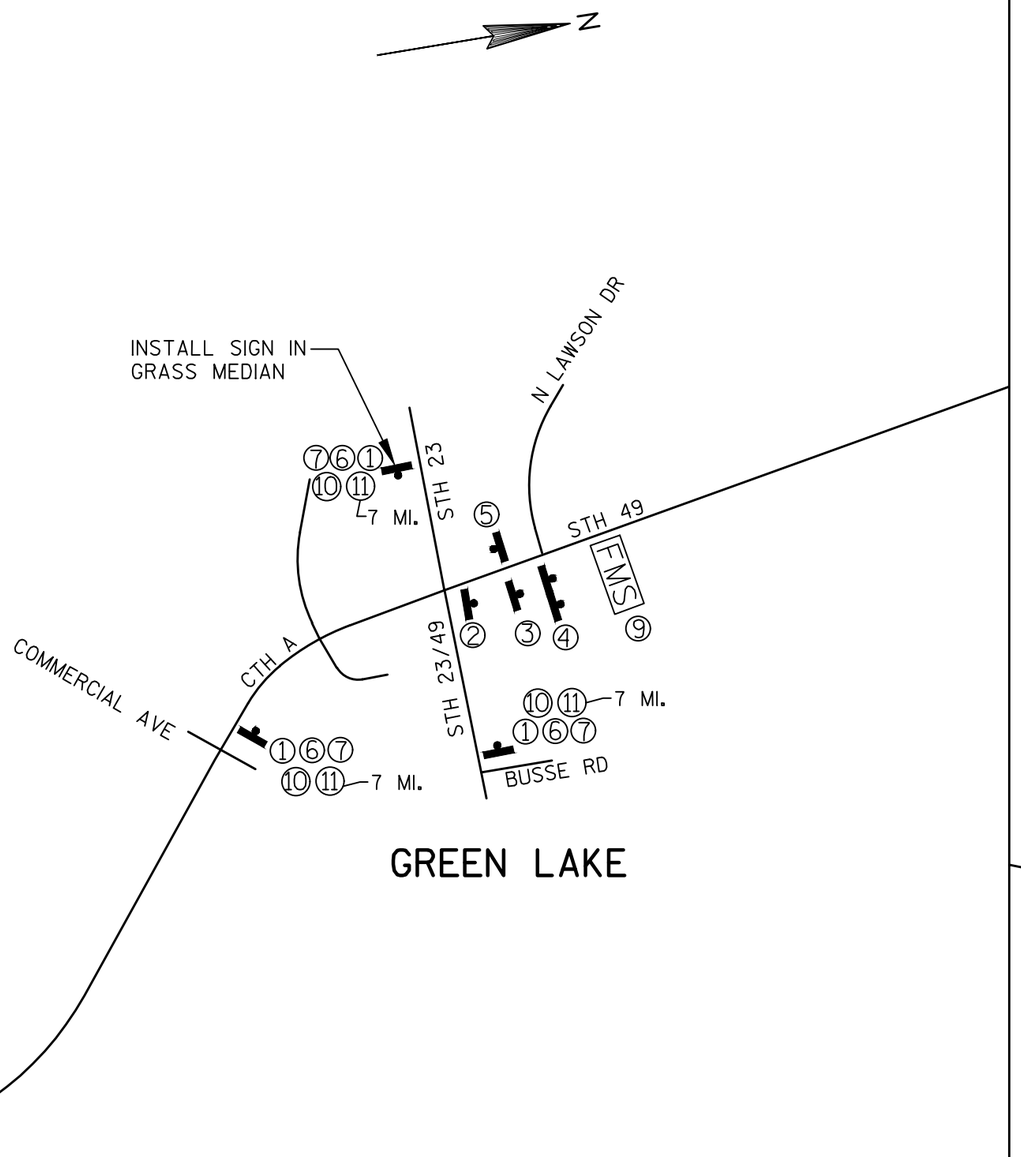
⑨ HWY 49 ROAD WORK BEGINS XX-XX
FMS
G20-57
96"X48"

INSTALL 7 DAYS PRIOR TO CONSTRUCTION START DATE AND REMOVE AFTER WORK BEGINS

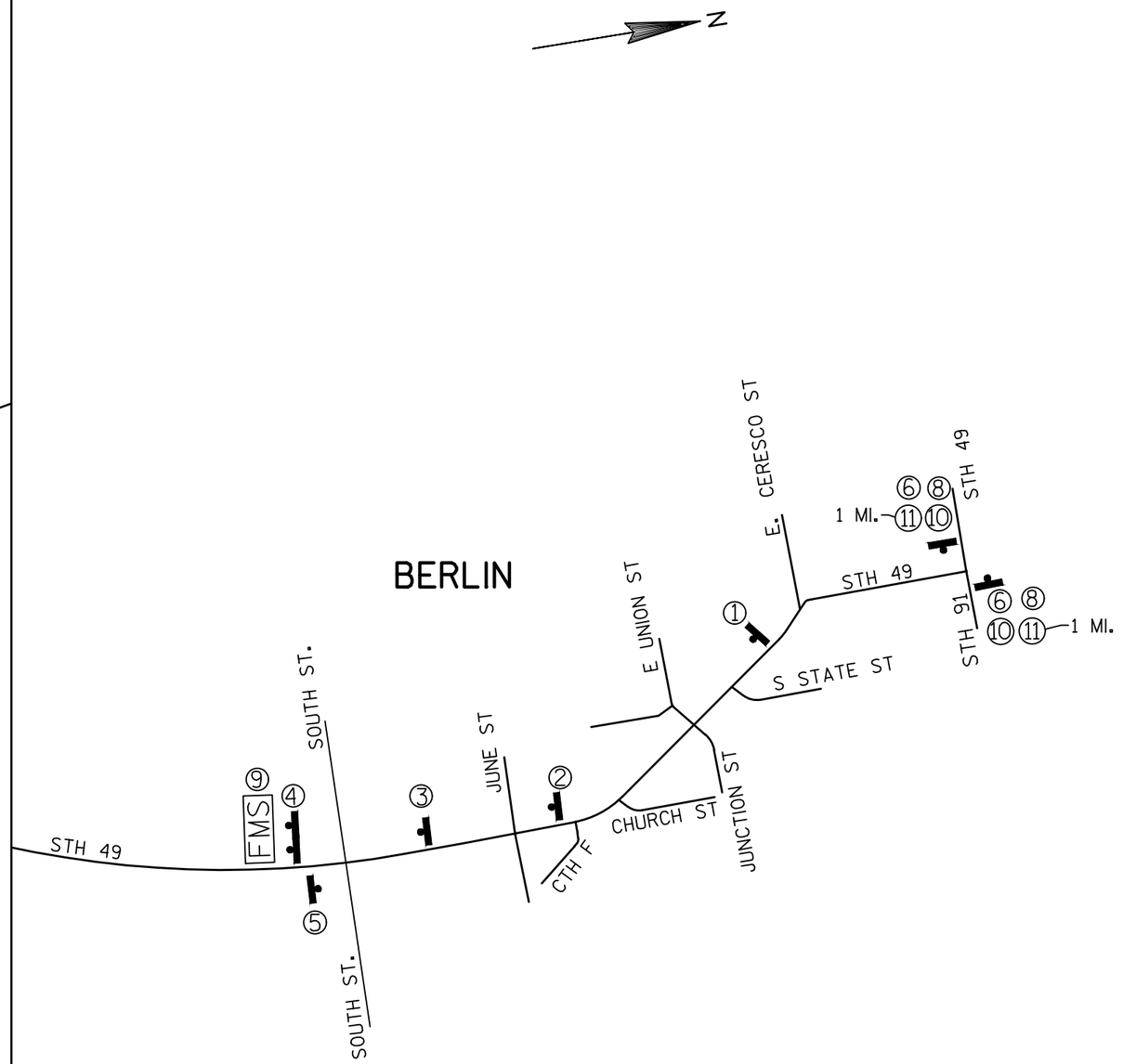
⑩ MAX. 11' WIDTH
W12-52
48"X48"

⑪ 00 MILES AHEAD
W057-52
48"X36"

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	TRAFFIC CONTROL - ADVANCED WARNING SIGNING	SHEET 156	E

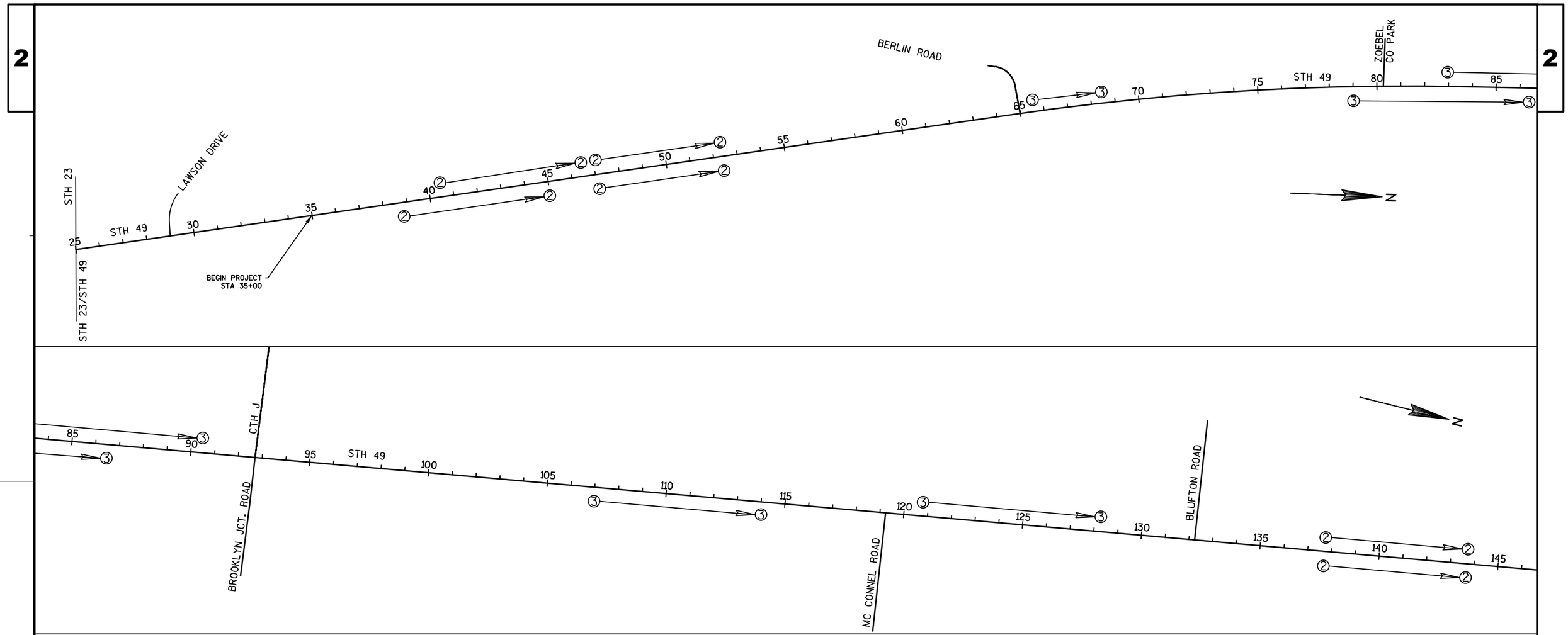


DETAIL A



DETAIL B

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	TRAFFIC CONTROL - ADVANCED WARNING SIGNING	SHEET 157	E



LEGEND

① PIPE WORK
② BEAM GUARD WORK
③ CIIMBING/TURN LANE WORK

SEE SDD TRAFFIC CONTROL, FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

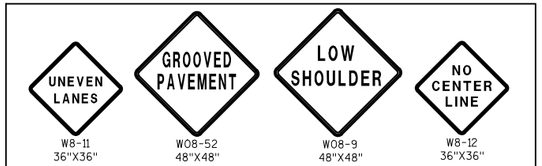
ALL "END ROAD WORK" (G20-2A) SIGNS SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETED.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO AVOID CONFLICT WITH EXISTING SIGNS THAT WILL REMAININ PLACE AND SHOULD PROVIDE A MINIMUM OF 200 FT (500 FT DESIRABLE) SPACING BETWEEN ALL SIGNS.

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

EQUIPMENT, VEHICLES OR MATERIAL SHOULD NOT BE STORED IN BUFFER SPACE.

GENERAL NOTES FOR TRAFFIC CONTROL



USE THESE SIGNS AS NEEDED OR AS DIRECTED BY THE ENGINEER, SEE S.D.D. 15 D 39 FOR LOCATIONS

LOCATION OF THESE SIGNS SHALL BE DETERMINED BASED ON CONTRACTOR WORK OPERATIONS
(FOR RESTRICTED USE ONLY)
(THESE SIGNS ARE INCIDENTAL TO THE PROJECT)

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.

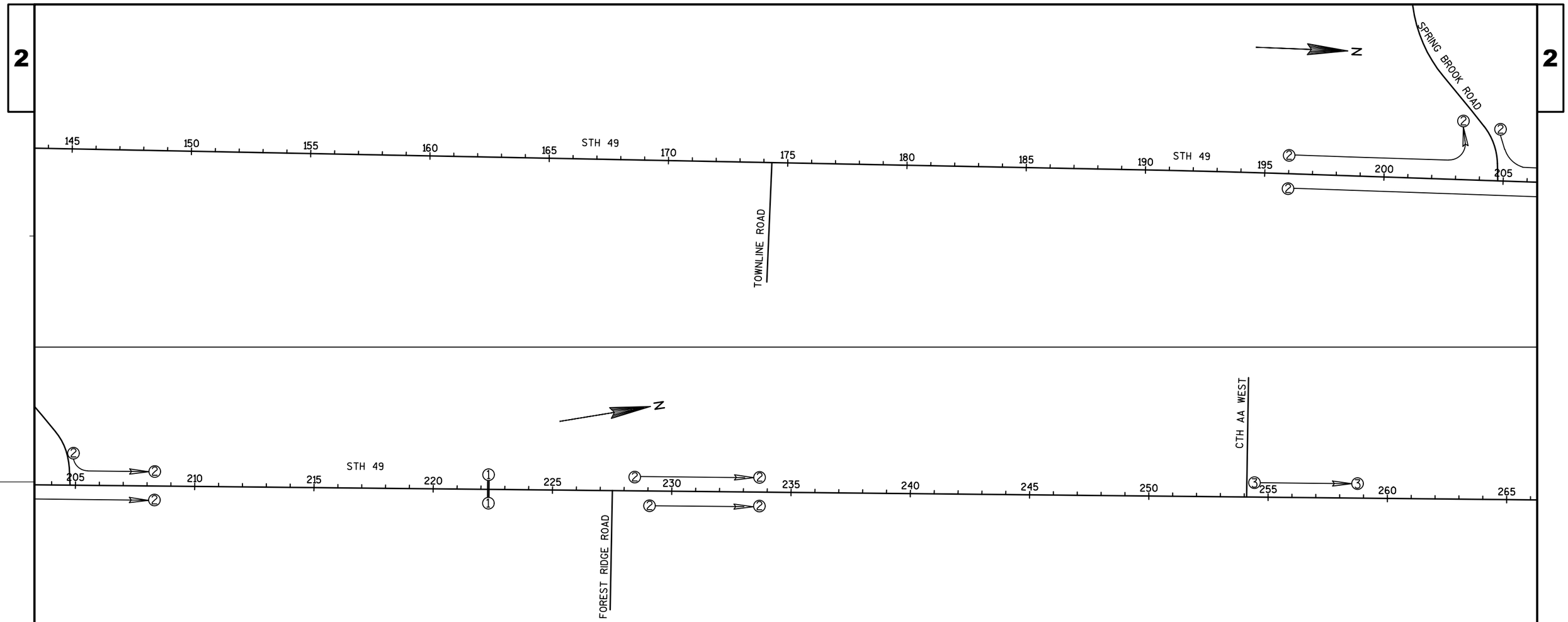
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

'WO' SIGNS ARE 'W' SERIES SIGNS WITH ORANGE BACKGROUND.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS SO THE DRIVER HAS A CLEAR VIEW OF THE SIGNS AND LANE CLOSURE DRUMS FOR A MINIMUM 300 FEET IN FRONT OF DRUMS.

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	TRAFFIC CONTROL - OVERVIEW	SHEET	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\025010_TC.DWG PLOT DATE : 4/11/2018 11:17 AM PLOT BY : STONE, JAY E PLOT NAME : PLOT SCALE : 1 IN:400 FT
WISDOT/CADDS SHEET 42



LEGEND

① PIPE WORK

② BEAM GUARD WORK

③ CIIMBING/TURN LANE WORK

SEE SDD TRAFFIC CONTROL, FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

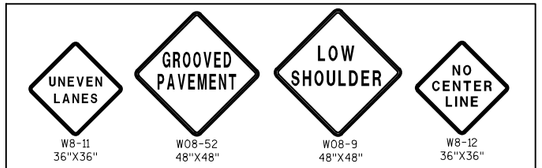
ALL "END ROAD WORK" (G20-2A) SIGNS SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETED.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO AVOID CONFLICT WITH EXISTING SIGNS THAT WILL REMAININ PLACE AND SHOULD PROVIDE A MINIMUM OF 200 FT (500 FT DESIRABLE) SPACING BETWEEN ALL SIGNS.

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

EQUIPMENT, VEHICLES OR MATERIAL SHOULD NOT BE STORED IN BUFFER SPACE.

GENERAL NOTES FOR TRAFFIC CONTROL



USE THESE SIGNS AS NEEDED OR AS DIRECTED BY THE ENGINEER, SEE S.D.D. 15 D 39 FOR LOCATIONS

LOCATION OF THESE SIGNS SHALL BE DETERMINED BASED ON CONTRACTOR WORK OPERATIONS
(FOR RESTRICTED USE ONLY)
(THESE SIGNS ARE INCIDENTAL TO THE PROJECT)

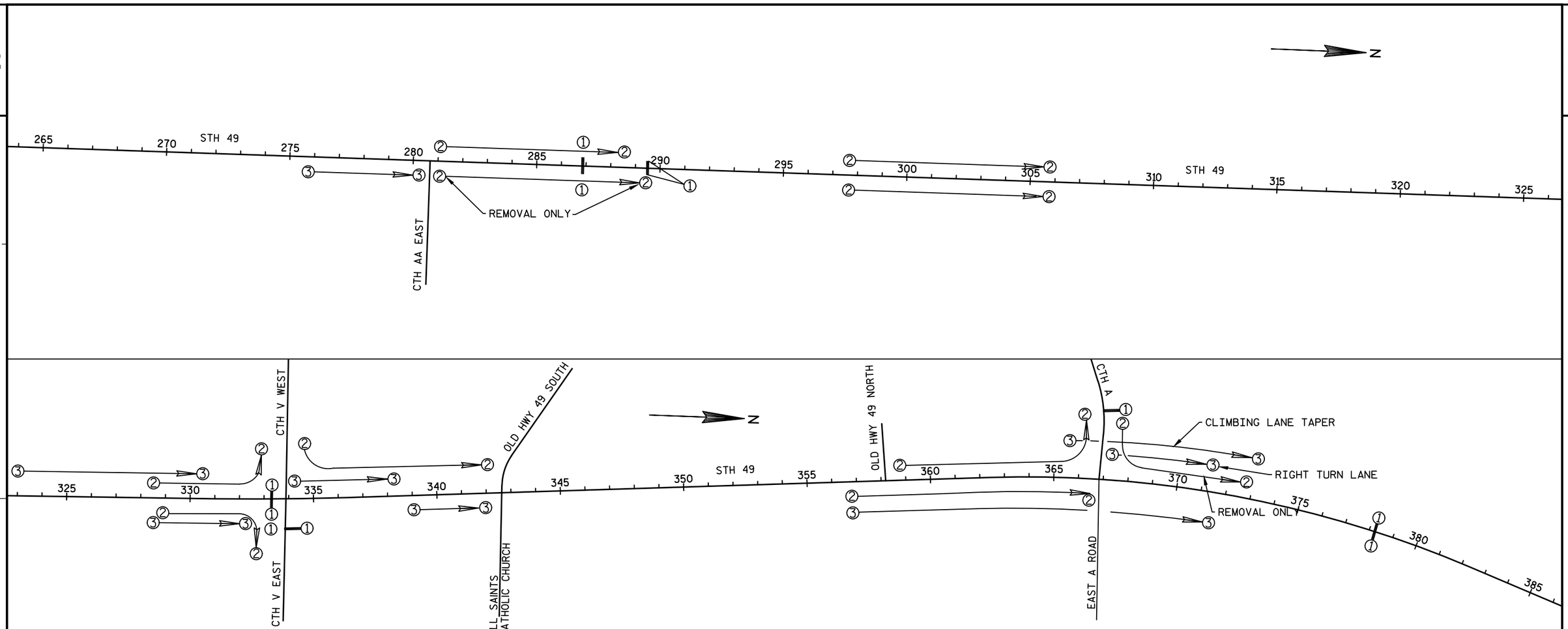
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

'WO' SIGNS ARE 'W' SERIES SIGNS WITH ORANGE BACKGROUND.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS SO THE DRIVER HAS A CLEAR VIEW OF THE SIGNS AND LANE CLOSURE DRUMS FOR A MINIMUM 300 FEET IN FRONT OF DRUMS.

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	TRAFFIC CONTROL - OVERVIEW	SHEET 159	E



LEGEND

① PIPE WORK
② BEAM GUARD WORK
③ CIIMBING/TURN LANE WORK

SEE SDD TRAFFIC CONTROL, FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

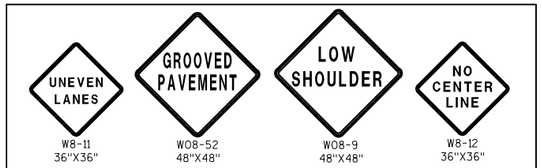
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THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO AVOID CONFLICT WITH EXISTING SIGNS THAT WILL REMAININ PLACE AND SHOULD PROVIDE A MINIMUM OF 200 FT (500 FT DESIRABLE) SPACING BETWEEN ALL SIGNS.

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

EQUIPMENT, VEHICLES OR MATERIAL SHOULD NOT BE STORED IN BUFFER SPACE.

GENERAL NOTES FOR TRAFFIC CONTROL



USE THESE SIGNS AS NEEDED OR AS DIRECTED BY THE ENGINEER, SEE S.D.D. 15 D 39 FOR LOCATIONS

LOCATION OF THESE SIGNS SHALL BE DETERMINED BASED ON CONTRACTOR WORK OPERATIONS
(FOR RESTRICTED USE ONLY)
(THESE SIGNS ARE INCIDENTAL TO THE PROJECT)

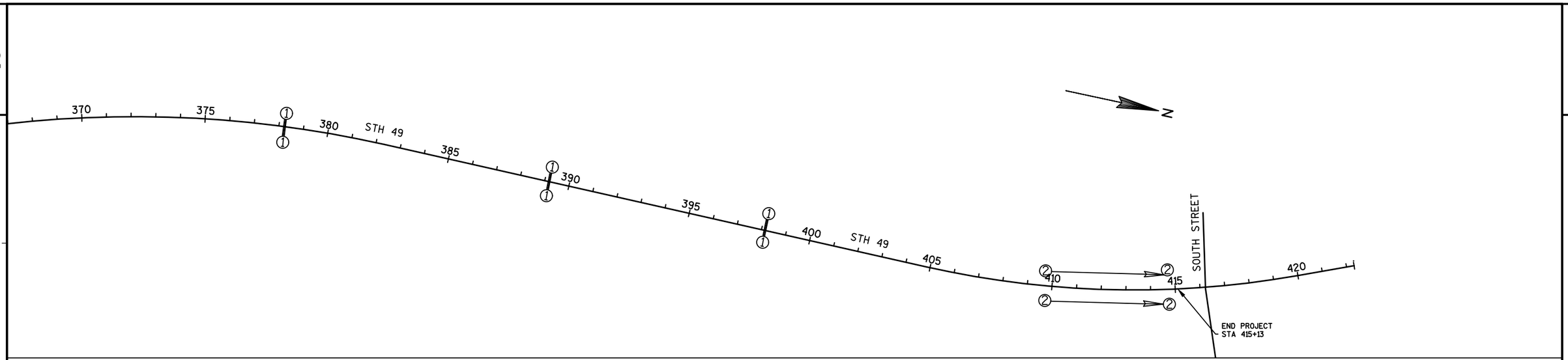
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

'WO' SIGNS ARE 'W' SERIES SIGNS WITH ORANGE BACKGROUND.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS SO THE DRIVER HAS A CLEAR VIEW OF THE SIGNS AND LANE CLOSURE DRUMS FOR A MINIMUM 300 FEET IN FRONT OF DRUMS.

PROJECT NO:6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	TRAFFIC CONTROL - OVERVIEW	SHEET 160	E



LEGEND

① PIPE WORK

② BEAM GUARD WORK

③ CIIMBING/TURN LANE WORK

SEE SDD TRAFFIC CONTROL, FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

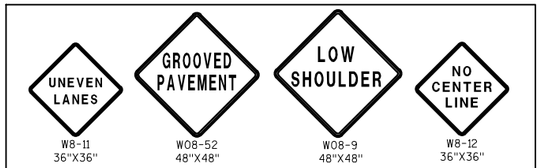
ALL "END ROAD WORK" (G20-2A) SIGNS SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETED.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO AVOID CONFLICT WITH EXISTING SIGNS THAT WILL REMAININ PLACE AND SHOULD PROVIDE A MINIMUM OF 200 FT (500 FT DESIRABLE) SPACING BETWEEN ALL SIGNS.

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

EQUIPMENT, VEHICLES OR MATERIAL SHOULD NOT BE STORED IN BUFFER SPACE.

GENERAL NOTES FOR TRAFFIC CONTROL



USE THESE SIGNS AS NEEDED OR AS DIRECTED BY THE ENGINEER, SEE S.D.D. 15 D 39 FOR LOCATIONS

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(FOR RESTRICTED USE ONLY)
(THESE SIGNS ARE INCIDENTAL TO THE PROJECT)

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ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

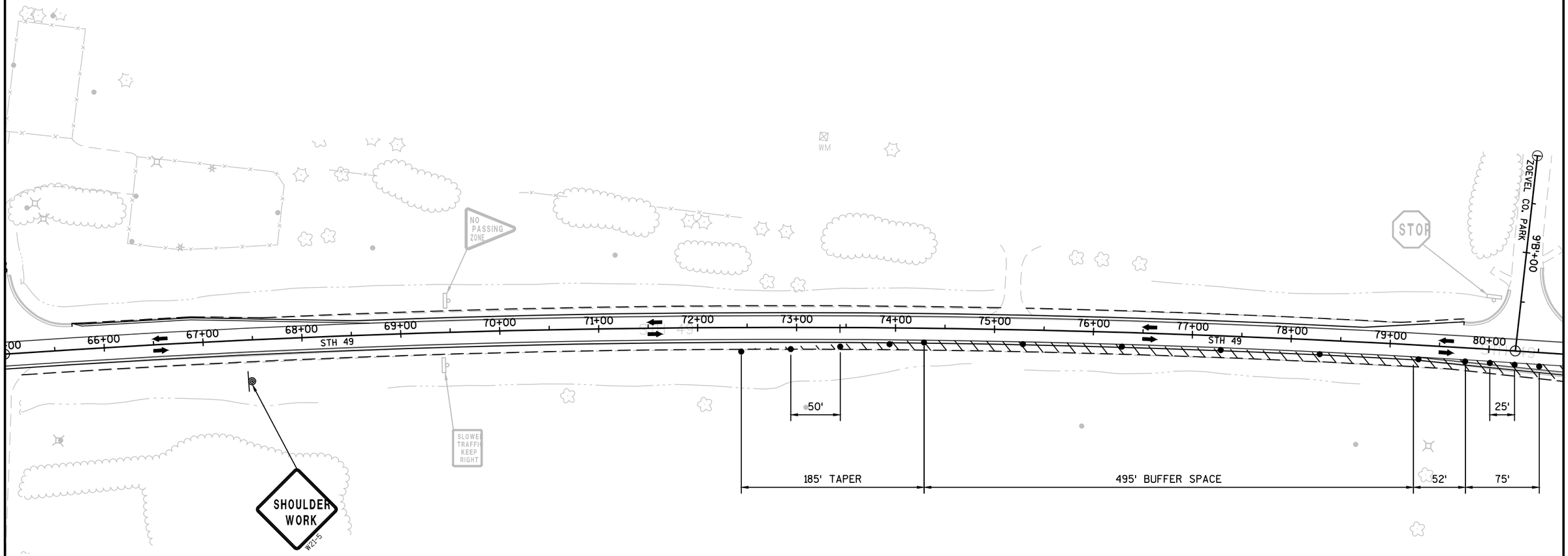
'WO' SIGNS ARE 'W' SERIES SIGNS WITH ORANGE BACKGROUND.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS SO THE DRIVER HAS A CLEAR VIEW OF THE SIGNS AND LANE CLOSURE DRUMS FOR A MINIMUM 300 FEET IN FRONT OF DRUMS.

PROJECT NO:6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	TRAFFIC CONTROL - OVERVIEW	SHEET 161	E

2

N



LEGEND

- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- TYPE A WARNING LIGHT (FLASHING)
- WORK AREA
- DIRECTION OF TRAFFIC

NOTE: DRUMS ARE 100-FOOT C-C UNLESS OTHERWISE NOTED.

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	TRAFFIC CONTROL - CLIMBING LANE CLOSURE	SHEET 162	E

2

N

R11-2-L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2-L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2-L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2-L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2-L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

DO NOT PASS WHEN ONCOMING TRAFFIC IN EITHER LANE

ZOEVEL CO. PARK

DISK GOLF COURSE

CTH J

STH 49

SOUTH 49

NORTH 49

STOP

COUNTY J

JCT COUNTY J

BROOKLYN JCT. ROAD

SIGN

FLAG

T

80+00 81+00 82+00 83+00 84+00 85+00 86+00 87+00 88+00 89+00 90+00 91+00 92+00 93+00 94+00 95+00

98+00 99+00 100+00 101+00 102+00 103+00 104+00 105+00 106+00 107+00 108+00 109+00 110+00 111+00 112+00 113+00 114+00

75' 25' 100' 948' 100' 25' 100' TAPER 43' TAPER 15' 98' TAPER 100' 25' 15' 57' TAPER 200'

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	TRAFFIC CONTROL - CLIMBING LANE CLOSURE	SHEET 163	E

2

N

R11-2-L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2-L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

RIGHT LANE ENDS

JCT COUNTY J

96+00 97+00 98+00 99+00 100+00 101+00 102+00 103+00 104+00 105+00 106+00 107+00 108+00 109+00 110+00 111+00

STH 49

RIGHT LANE ENDS

BERM

FLAG

BERM

DO NOT PASS WHEN ONCOMING TRAFFIC IN EITHER LANE

R11-2-L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	TRAFFIC CONTROL - CLIMBING LANE CLOSURE	SHEET 164	E

2

N

R11-2-L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2-L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

100'
25'

112+00 113+00 114+00 115+00 116+00 117+00 118+00 119+00 120+00 121+00 122+00 123+00 124+00 125+00 126+00 127

STH 49

STH 49

STH 49

2

2

N

STOP

SLOWER TRAFFIC KEEP RIGHT

100' TAPER

50'

BLUFFTON ROAD

SHOULDER WORK

W21-5

NO PASSING ZONE

SEPTIC

SEPV

125+00 126+00 127+00 128+00 129+00 130+00 131+00 132+00 133+00 134+00 135+00 136+00 137+00 138+00 139+00 140+00

STH 49

STH 49

STH 49

STH 49

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	TRAFFIC CONTROL - CLIMBING LANE CLOSURE	SHEET 166	E

2

N

R11-2-L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2-L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

SOUTH 49

49

STOP

49' TAPER

15'

COUNTY V

72' TAPER

100'

CTH V

11K+00
12K+00
13K+00
14K+00
15K+00
16K+00
17K+00
18K+00
19K+00

322+00 323+00 324+00 325+00 326+00 327+00 328+00 329+00 330+00 331+00 332+00 333+00 334+00 335+00 336+00

STH 49

SIGN

JCT COUNTY V

ONCOMING TRAFFIC USES CENTER LANE

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	TRAFFIC CONTROL - CLIMBING LANE CLOSURE	SHEET 167	E

2

R11-2-L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

52'
TAPER
15'

70'
TAPER
100'
25'

R11-2-L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2-L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

STOP
SIGN
WALL
INL
JCT COUNTY V
RIGHT LANE ENDS

336+00 337+00 338+00 339+00 340+00 341+00 342+00 343+00 344+00 345+00 346+00 347+00 348+00 349+00 350+00 351+00

STH 49

OLD HWY 49

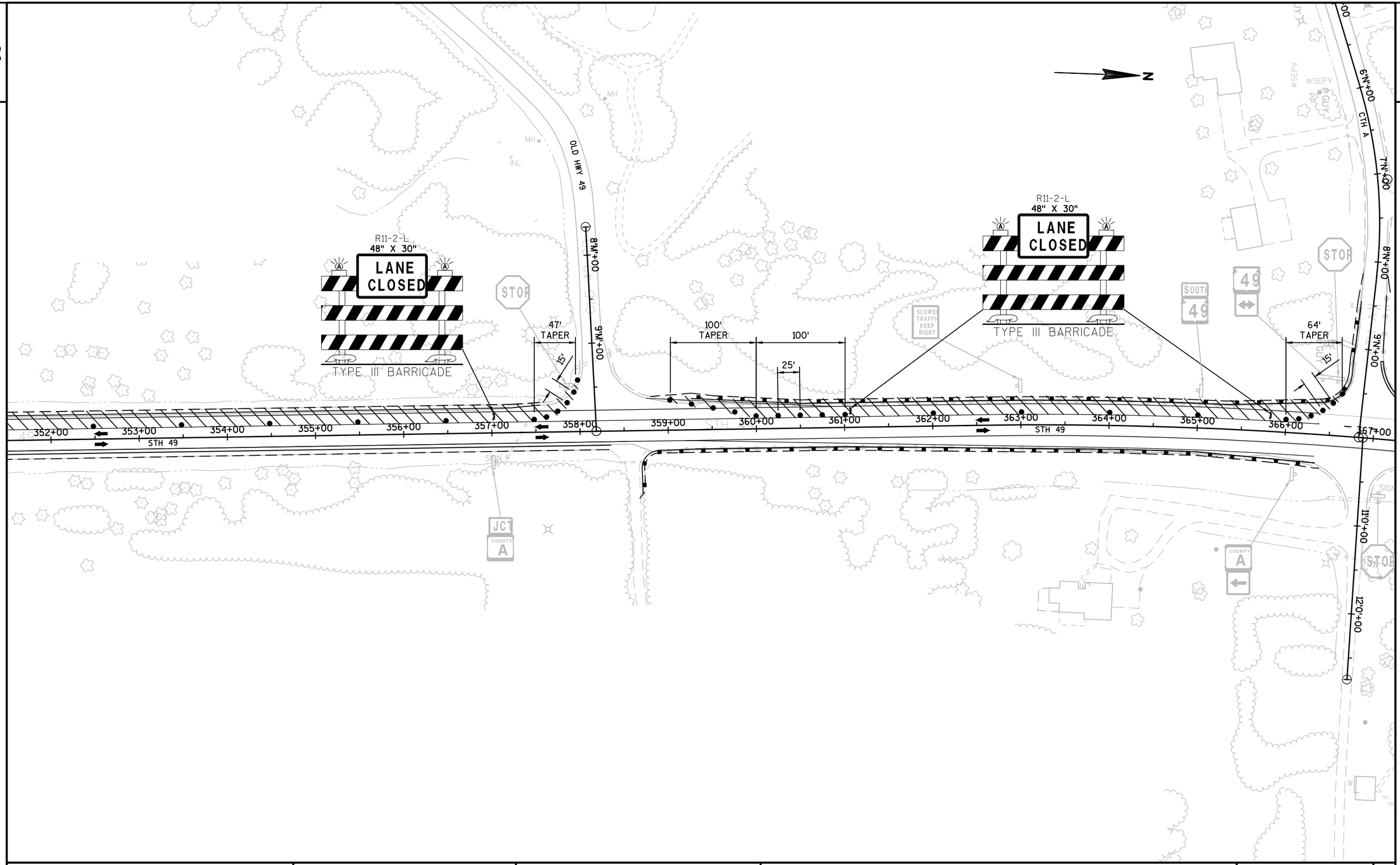
51'L+00
61'L+00
71'L+00
81'L+18
91'L+16
101'L+00
111'L+00
121'L+00
131'L+00
141'L+00

SIGN
NORTH 49
RIPRAP

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	TRAFFIC CONTROL - CLIMBING LANE CLOSURE	SHEET 168	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\025011-TC.DWG
LAYOUT NAME - SHEET - (7)

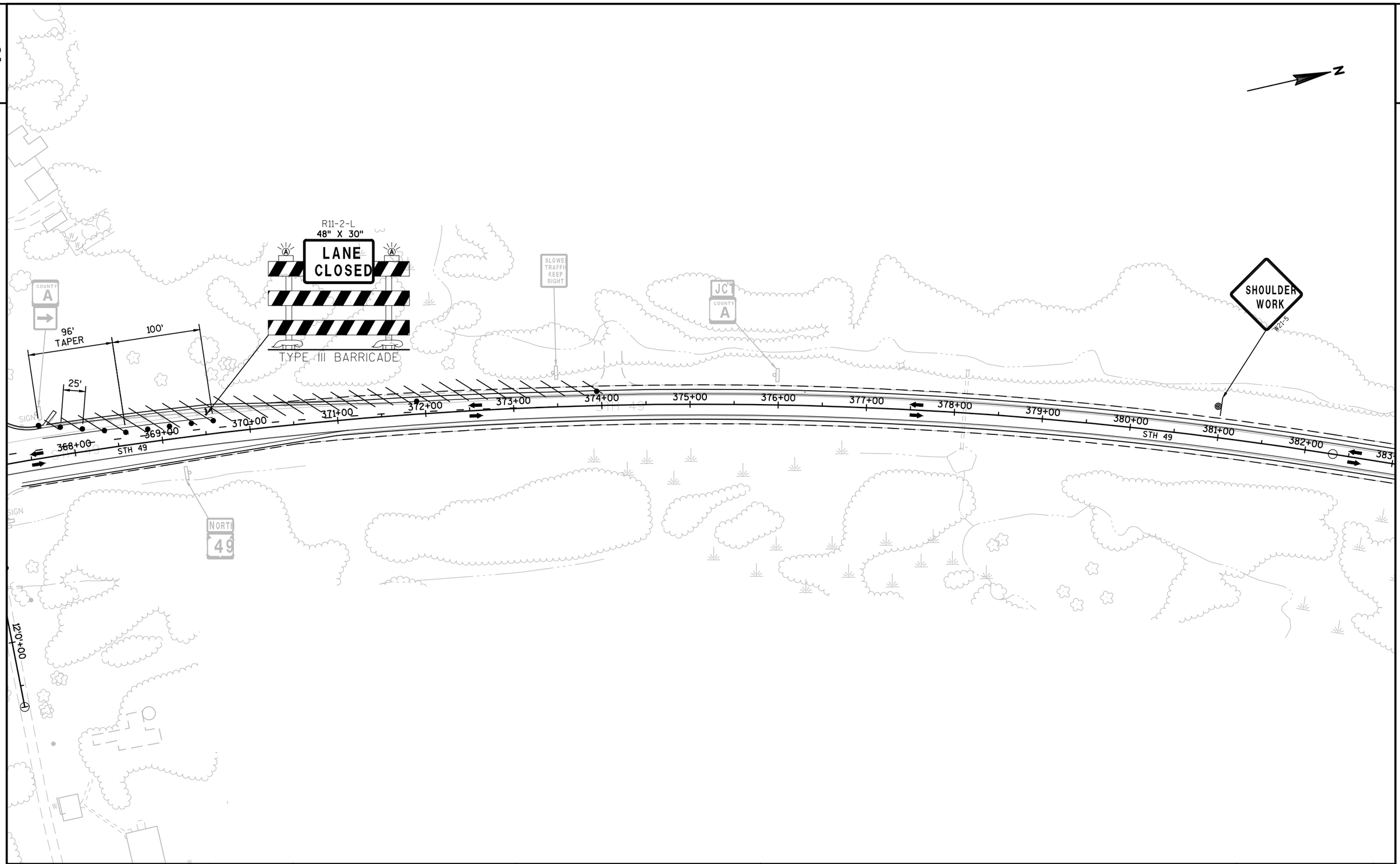
PLOT DATE : 4/10/2018 12:46 PM PLOT BY : STONE, JAY E PLOT NAME : PLOT SCALE : 1 IN:100 FT



PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	TRAFFIC CONTROL - CLIMBING LANE CLOSURE	SHEET 169	E

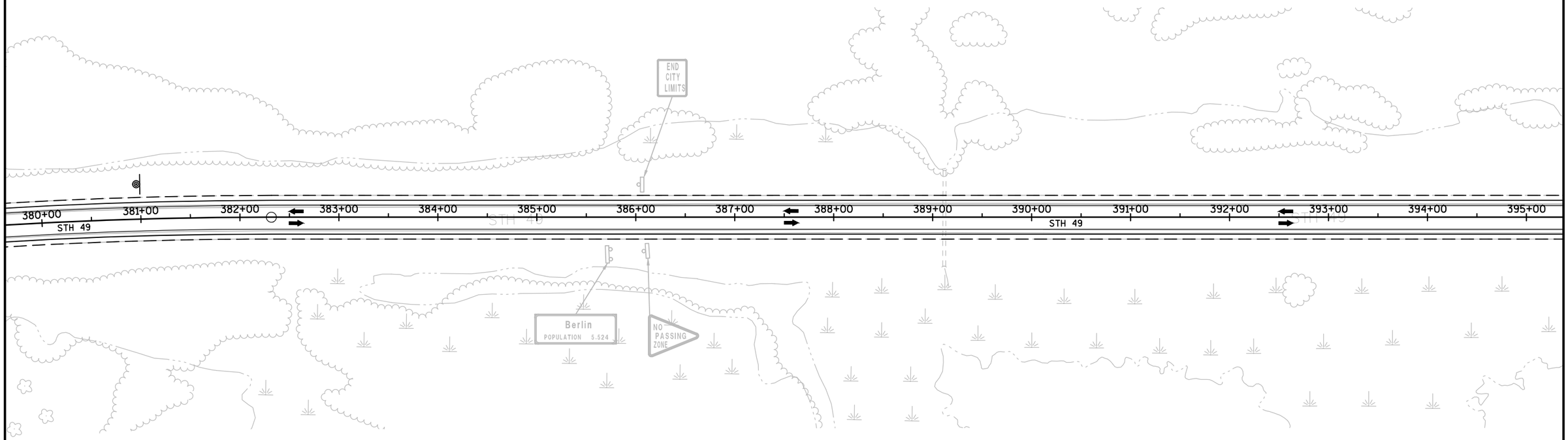
FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\025011-TC.DWG
LAYOUT NAME - SHEET - (8)
PLOT DATE : 4/10/2018 12:46 PM PLOT BY : STONE, JAY E PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

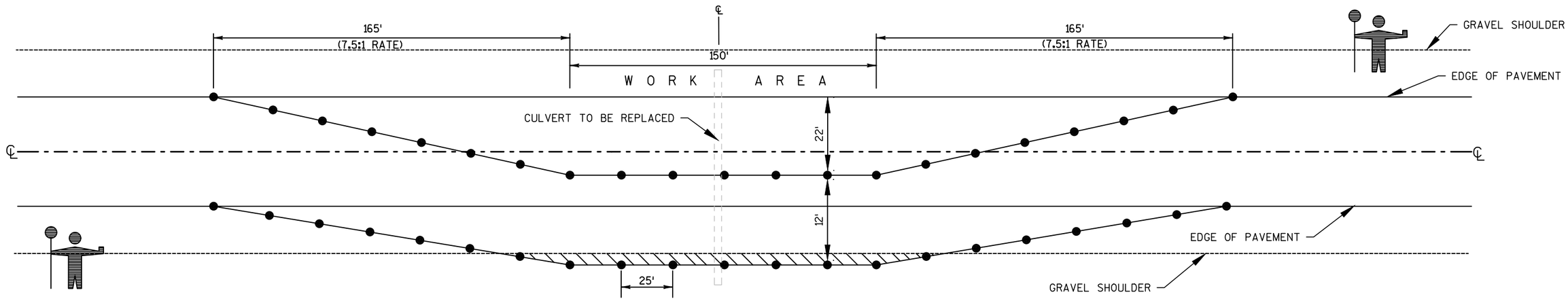


PROJECT NO:6210-00-72	HWY:STH 49	COUNTY:GREEN LAKE	TRAFFIC CONTROL - CLIMBING LANE CLOSURE	SHEET 170	E

2



PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	TRAFFIC CONTROL - CLIMBING LANE CLOSURE	SHEET 171	E



NOTES

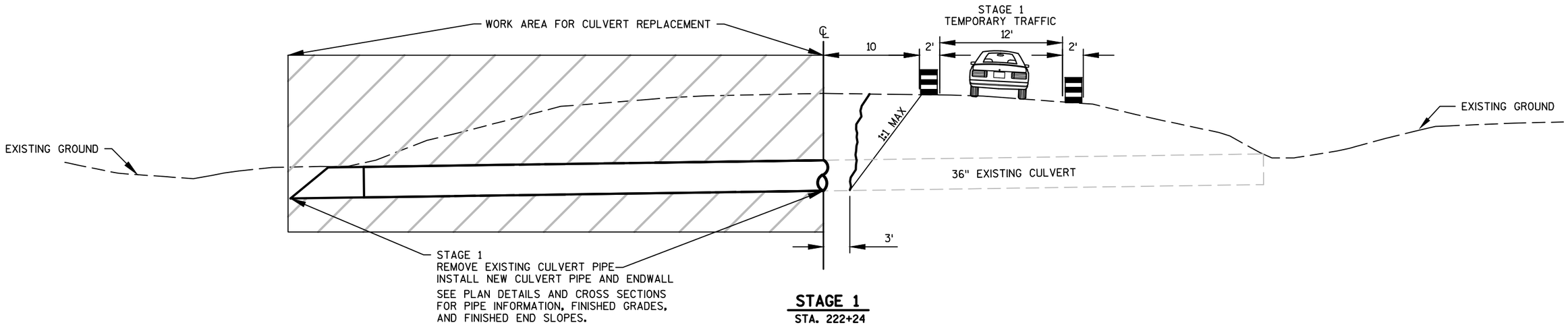
1. USE WITH SDD "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATIONS".
2. FLAGGERS ARE SPECIFIC TO THIS OPERATIONS
3. THE TAPER SHOULD EXTEND ACROSS THE SHOULDER UNLESS DOING SO WOULD GREATLY CONFILCT WITH THE WORK OPERATION.
4. ALL LANE CLOSURE SIGNS SHALL BE REMOVED OR COVERED AND ALL DEVICES REMOVED BEYOND THE SHOULDER WHEN WORK IS NOT IN PROGRESS AND THE LANE IS RESTORED TO ORIGINAL CONFIGURATION.
5. CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED AWAY FROM TRAVEL LANE WHEN FLAGGING OPERATIONS ARE NOT IN USE.
6. COORDINATE WORK ZONE SIGNING WITH PROJECT ADVANCED WARNING WORK ZONE SIGNING.

LEGEND

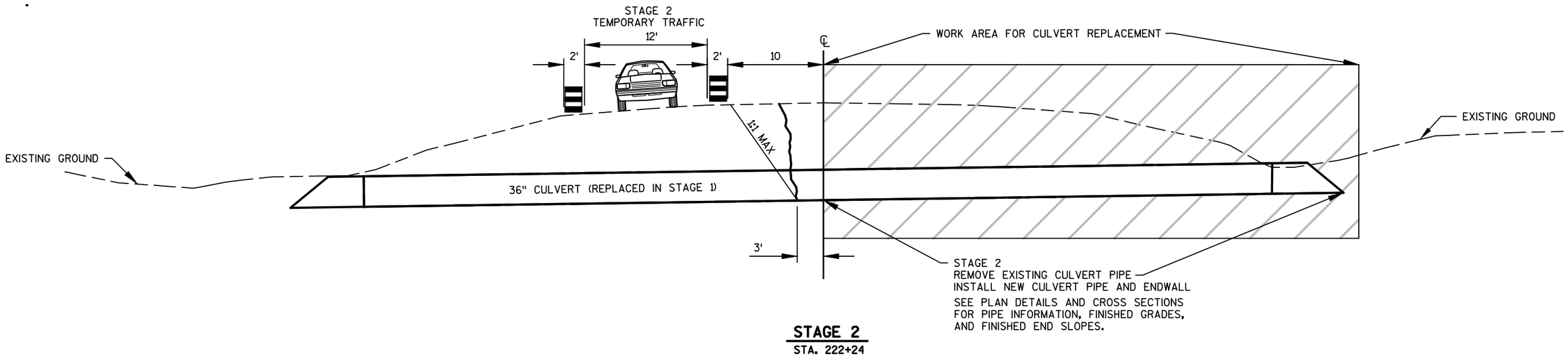
● DRUM WITHOUT WARNING LIGHT

▨ 6" BASE AGGREGATE DENSE 1 1/4 INCH - INCIDENTAL TO LANE SHIFT ITEM

PROJECT NO:6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	TRAFFIC CONTROL - FLAGGING TEMPORARY LANE SHIFT DETAIL	SHEET 172	E



STAGE 1
STA. 222+24



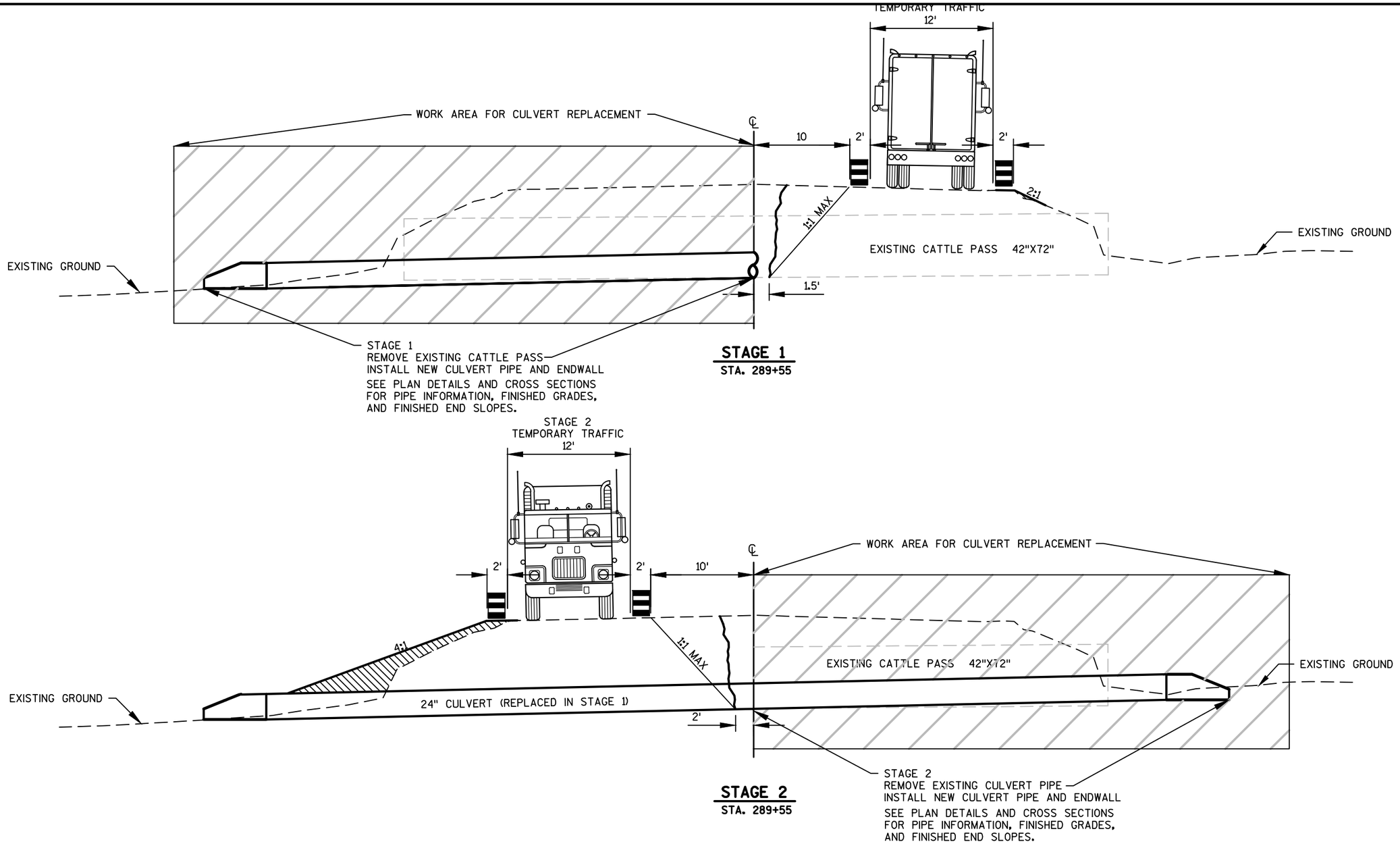
STAGE 2
STA. 222+24

CULVERT PIPE REPLACEMENT HALF AT A TIME
WITH FLAGING OPERATIONS

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	TRAFFIC CONTROL - FLAGGING TEMPORARY LANE SHIFT DETAIL	SHEET 173	E

2

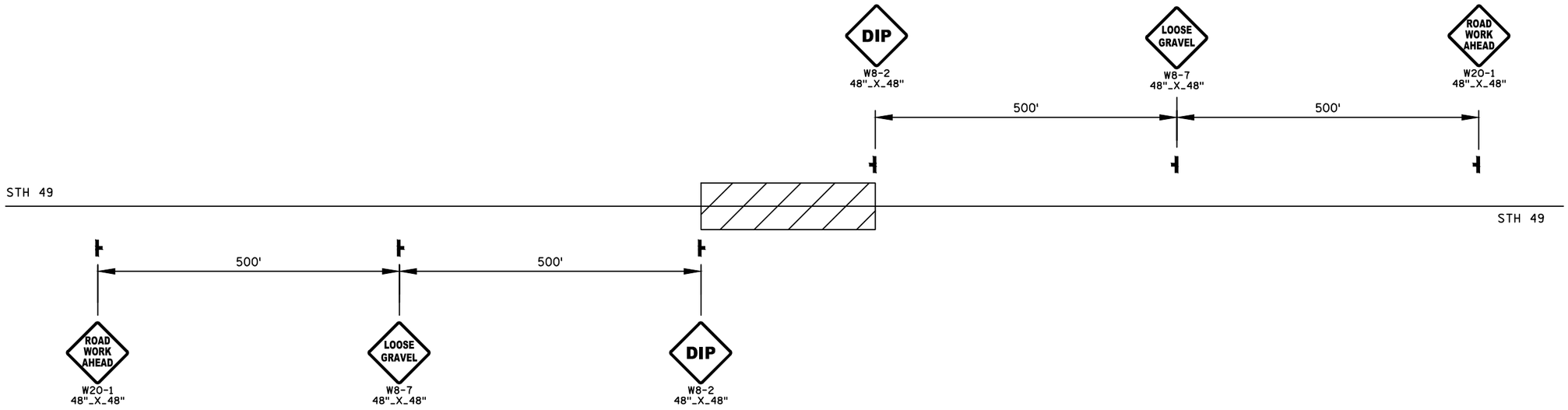
ND



CULVERT PIPE REPLACEMENT HALF AT A TIME
WITH FLAGING OPERATIONS

PROJECT NO:6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	TRAFFIC CONTROL - FLAGGING TEMPORARY LANE SHIFT DETAIL	SHEET 174	E

2



CULVERT PIPE TRANSITION AREA
48' MIN - 110' MAX

TEMPORARY SIGNING AT CULVERT PIPE REPLACEMENT

STA 222+24
STA 289+55

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	TRAFFIC CONTROL - TEMPORARY LANE SHIFT	SHEET	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\025013-TC.DWG
LAYOUT NAME - ****

PLOT DATE : 4/10/2018 12:51 PM PLOT BY : STONE, JAY E PLOT NAME : PLOT SCALE : Custom

NOTE:
STOP BAR PLACEMENT AT 510 FT SPACING
CONSTRUCTION YEAR AADT: 6317 VPD

TEMPORARY SIGNAL TIMING #1

6:00am to 8:00pm

INTERVAL	NB	SB	SECONDS
1	R	R	18
2	G	R	22
3	Y	R	5
4	R	R	18
5	R	G	32
6	R	Y	5

EMERGENCY FR FR
FLASH
CYCLE LENGTH = 100 SEC
NOTE :THE ALL- RED CLEARANCE INTERVAL 1 & 4 IS BASED
ON A STOPLINE TO STOPLINE DISTANCE = 510 FT
IF THIS DISTANCE IS MODIFIED IN THE FIELD CONTACT
THE NC REGION TRAFFIC SECTION FOR TIMING MODIFICATION

TEMPORARY SIGNAL TIMING #2

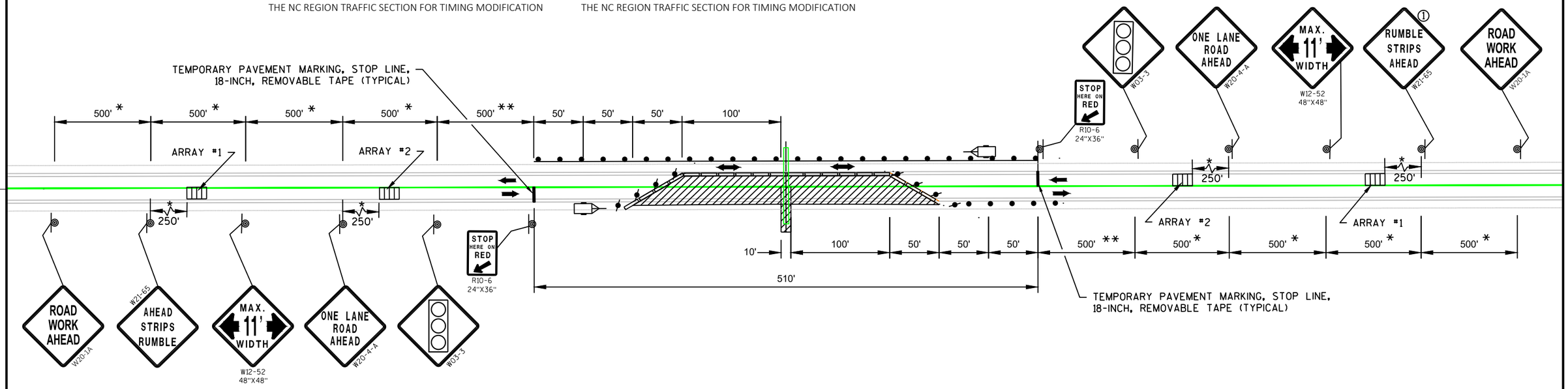
8:00pm to 6:00am

INTERVAL	NB	SB	SECONDS
1	R	R	18
2	G	R	18
3	Y	R	5
4	R	R	18
5	R	G	26
6	R	Y	5

EMERGENCY FR FR
FLASH
CYCLE LENGTH = 90 SEC
NOTE :THE ALL- RED CLEARANCE INTERVAL 1 & 4 IS BASED
ON A STOPLINE TO STOPLINE DISTANCE = 510 FT
IF THIS DISTANCE IS MODIFIED IN THE FIELD CONTACT
THE NC REGION TRAFFIC SECTION FOR TIMING MODIFICATION

LEGEND

- SIGN ON TEMPORARY SUPPORT
- CONCRETE BARRIER TEMPORARY PRECAST
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROLL DRUM WITH STEADY BURN LIGHT
- DIRECTION OF TRAFFIC
- TRAILER MOUNTED TRAFFIC SIGNAL, SEE SDD FOR EXACT PLACEMENT
- TEMPORARY RUMBLE STRIPS
- WORK ZONE



PLAN VIEW

STA 378+10
STA 389+12
STA 398+12

GENERAL NOTES

* 500-FOOT SPACING SHOWN IS FOR ROADWAYS WITH A PRE-CONSTRUCTION REGULATORY SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPG, USE 350-FOOT TYPICAL SPACING. FOR 25-30 MPH, USE 200-FOOT TYPICAL SPACING. USE 1/2 SPACING FOR ARRAY PLACEMENT.

① THE ADDITION OF TEMPORARY PORTABLE RUMBLE STRIPS IS OPTIONAL. IF USED THE STRIPS MUST BE MONITORED FREQUENTLY AND ADJUSTED AS NEEDED. IF QUEUES DEVELOP BEYOND ARRAY #1 REPOSITION ARRAY #1 500 FEET IN ADVANCE OF THE QUEUE.

REFER TO SDD TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS AND BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION FOR ADDITIONAL DETAILS.

NOTE:
STOP BAR PLACEMENT AT 510 FT SPACING
CONSTRUCTION YEAR AADT: 6317 VPD

TEMPORARY SIGNAL TIMING #1

6:00am to 8:00pm

INTERVAL	NB	SB	SECONDS
1	R	R	18
2	G	R	22
3	Y	R	5
4	R	R	18
5	R	G	32
6	R	Y	5

EMERGENCY FR FR
FLASH
CYCLE LENGTH = 100 SEC
NOTE :THE ALL- RED CLEARANCE INTERVAL 1 & 4 IS BASED
ON A STOPLINE TO STOPLINE DISTANCE = 510 FT
IF THIS DISTANCE IS MODIFIED IN THE FIELD CONTACT
THE NC REGION TRAFFIC SECTION FOR TIMING MODIFICATION

TEMPORARY SIGNAL TIMING #2

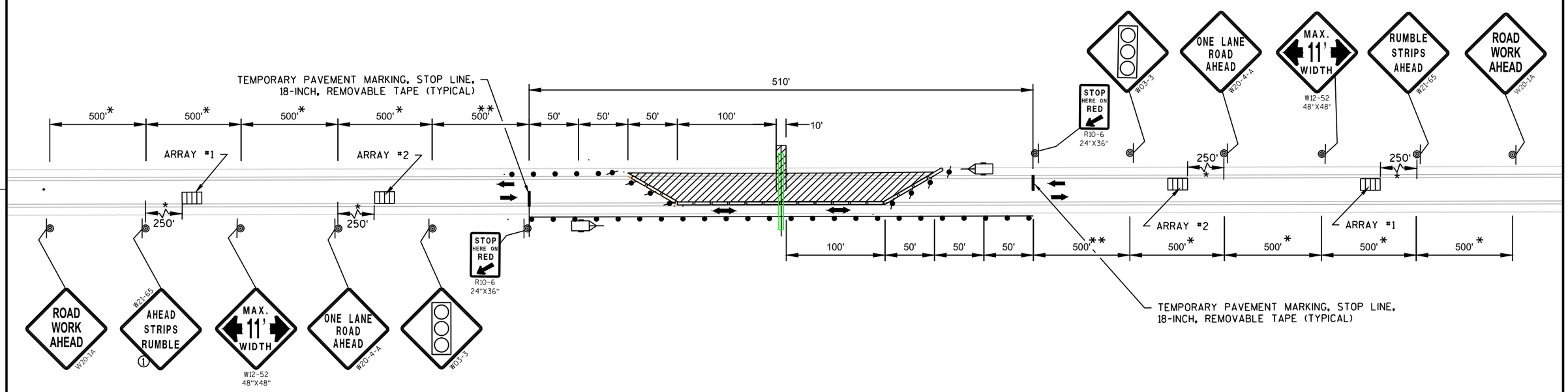
8:00pm to 6:00am

INTERVAL	NB	SB	SECONDS
1	R	R	18
2	G	R	18
3	Y	R	5
4	R	R	18
5	R	G	26
6	R	Y	5

EMERGENCY FR FR
FLASH
CYCLE LENGTH = 90 SEC
NOTE :THE ALL- RED CLEARANCE INTERVAL 1 & 4 IS BASED
ON A STOPLINE TO STOPLINE DISTANCE = 510 FT
IF THIS DISTANCE IS MODIFIED IN THE FIELD CONTACT
THE NC REGION TRAFFIC SECTION FOR TIMING MODIFICATION

LEGEND

- SIGN ON TEMPORARY SUPPORT
- CONCRETE BARRIER TEMPORARY PRECAST
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROLL DRUM WITH STEADY BURN LIGHT
- DIRECTION OF TRAFFIC
- TRAILER MOUNTED TRAFFIC SIGNAL, SEE SDD FOR EXACT PLACEMENT
- TEMPORARY RUMBLE STRIPS
- WORK ZONE



PLAN VIEW

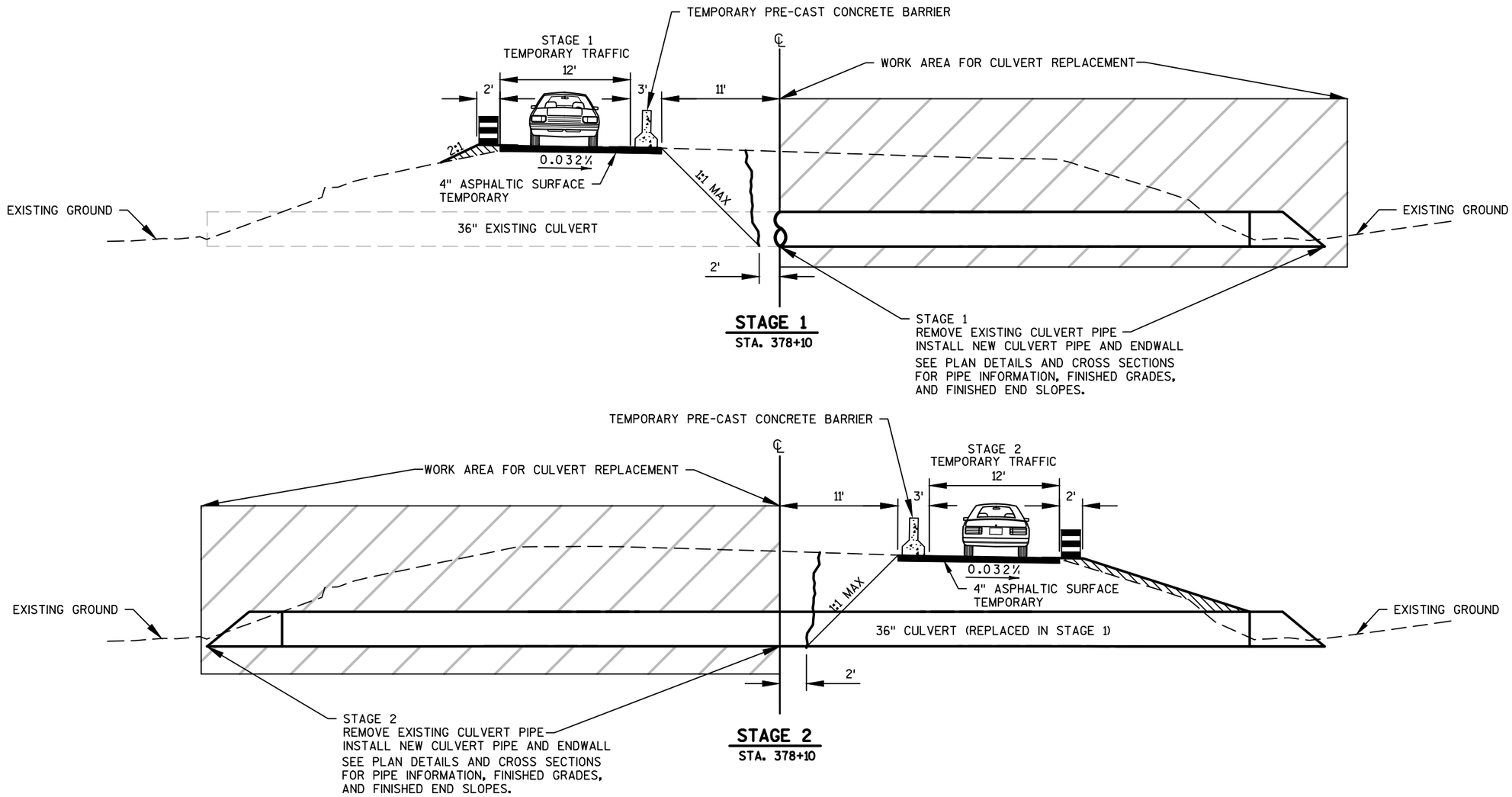
STA 378+10
STA 389+12
STA 398+12

GENERAL NOTES

* 500-FOOT SPACING SHOWN IS FOR ROADWAYS WITH A PRE-CONSTRUCTION REGULATORY SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPG, USE 350-FOOT TYPICAL SPACING. FOR 25-30 MPH, USE 200-FOOT TYPICAL SPACING. USE 1/2 SPACING FOR ARRAY PLACEMENT.

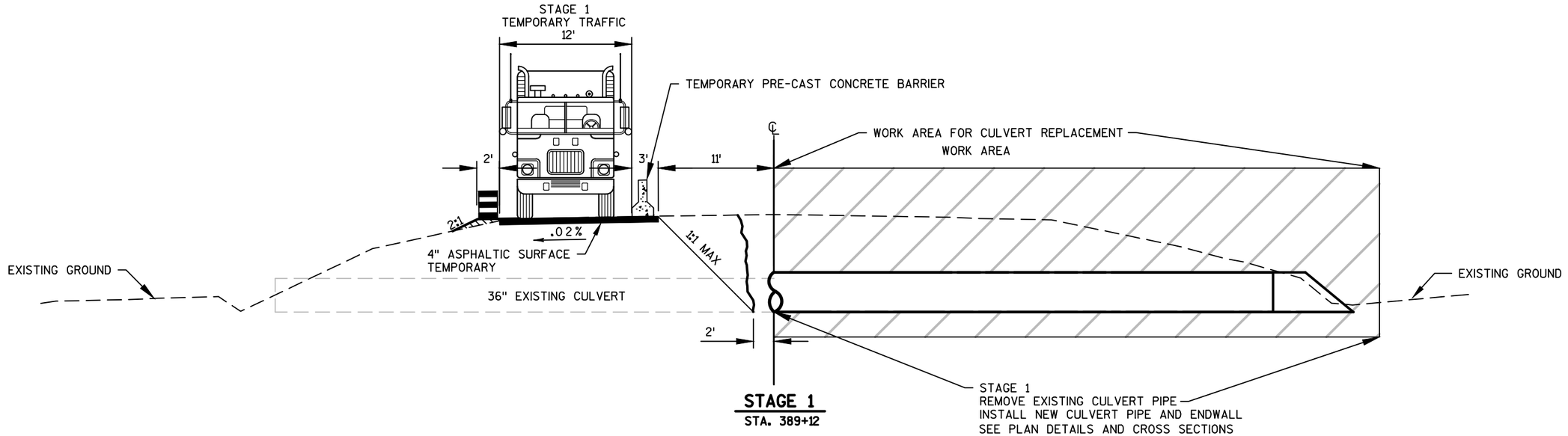
① THE ADDITION OF TEMPORARY PORTABLE RUMBLE STRIPS IS OPTIONAL. IF USED THE STRIPS MUST BE MONITORED FREQUENTLY AND ADJUSTED AS NEEDED. IF QUEUES DEVELOP BEYOND ARRAY #1 REPOSITION ARRAY #1 500 FEET IN ADVANCE OF THE QUEUE.

REFER TO SDD TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS AND BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION FOR ADDITIONAL DETAILS.



CULVERT PIPE REPLACEMENT HALF AT A TIME
WITH TEMPORARY SIGNALS

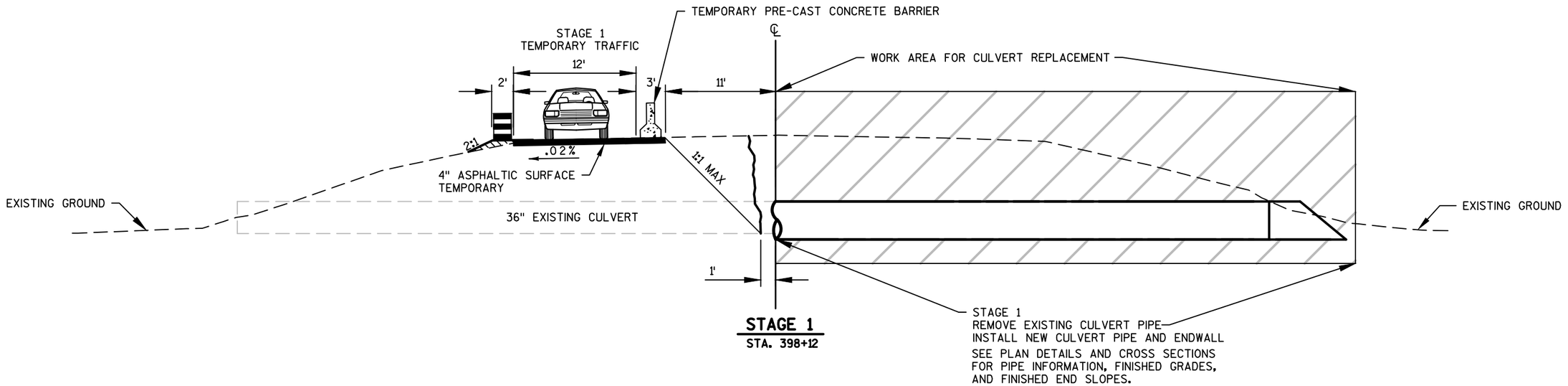
PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	TRAFFIC CONTROL - TEMPORARY LANE SHIFT DEWATERING	SHEET 178	E

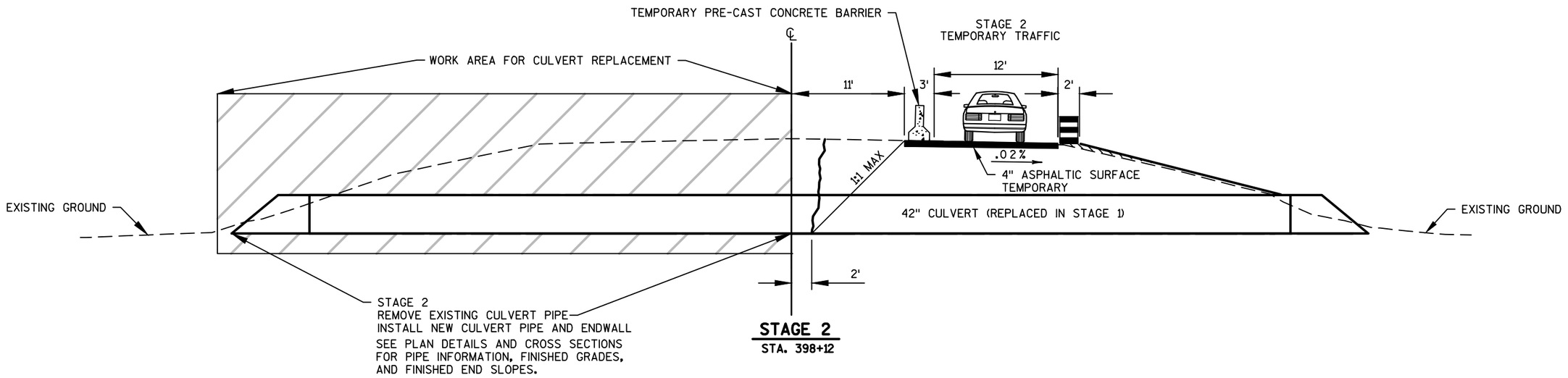


CULVERT PIPE REPLACEMENT HALF AT A TIME
WITH TEMPORARY SIGNALS

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	TRAFFIC CONTROL - TEMPORARY LANE SHIFT DEWATERING	SHEET 179 E

2





CULVERT PIPE REPLACEMENT HALF AT A TIME WITH TEMPORARY SIGNALS

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	TRAFFIC CONTROL - TEMPORARY LANE SHIFT DEWATERING	SHEET 180	E

NOTE: THE SIDEROAD ALIGNMENTS WERE MADE BY CENTERING THEM ON THE SIDEROAD ON ELECTRONIC MAPPING. THEY ARE NOT CENTERED IN THE SIDEROAD RIGHT-OF-WAY.

ALIGNMENT DATA FOR SIDEROADS IS BASE ON ASBUILT PLANS WITHOUT ANY FIELD SURVEY AND IS TO BE USED AS REFERENCE ONLY.

N

BEGIN PROJECT
STA. 35+00
Y = 278246.610
X = 573749.701

BP: 25+00.00
Y = 277263.221
X = 573931.241

25 30 35 40 45 50 55

N10° 27' 34"W

STH 49

Y = 281055.306
X = 573011.726
BP: 7+30.36'A'

PC: 7+58.43'A'
Y = 281083.229
X = 573014.689

PI STA = 8+29.81'A'
Y = 281154.206
X = 573022.222
DELTA = 71°02'13"
D = 57°17'45"
T = 71.38'
L = 123.98'
R = 100.00'
PC STA = 7+58.43
PT STA = 8+82.42

BERLIN ROAD

N6° 03' 30"E

Y = 281170.148
X = 573091.795
PT: 8+82.42'A'

92°26'49"

5 60 65 70 75 80 85

N10° 27' 34"W

STH 49

Alignment=STH49
Station=65+00.00
Offset=0.018
Y=281197.317
X=573206.264

EP: 10+00.00'A'

Y = 281177.453
X = 573208.646
PC: 64+80.37

PI STA = 74+15.14
Y = 282097.246
X = 573040.095
DELTA = 9°19'38"
D = 0°30'00"
T = 934.78'
L = 1865.42'
R = 11459.18'
PC STA = 64+80.37
PT STA = 83+45.79
SE = 2.0%

ZOEBEL CO PARK

Y = 282713.052
X = 572833.798
BP: 8+01.44'B'

92°26'33"

N90° 00' 00"E

PT: 83+45.79
Y = 283031.290
X = 573020.474

EP: 10+00.00'B'
Y = 282713.052
X = 573031.189

Alignment=STH49
Station=80+26.87
Offset=-1.173
Y=282713.052
X=573031.189

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	ALIGNMENT DIAGRAM	SHEET 181	E

2

Y = 283965.277
X = 572503.553
BP: 5+00.11'C'

CTH J
S88° 56' 02"E

Alignment=STH49
Station=92+70.14
Offset=-1.159
Y=283955.984
X=573002.196

92°12'0"

STH 49

90 95 100 105 110 115

N1° 07' 57"W

88°27'0"

PI: 10+00.00'C'
Y = 283955.984
X = 573002.196

N1° 07' 57"W

PI: 12+00.28'C'
Y = 283954.516
X = 573203.629

BROOKLYN JCT ROAD
S88° 54' 44"E

EP: 14+99.97'C'
Y = 283948.826
X = 573503.270

BP: 4+97.81'E'
Y = 287909.151
X = 572423.026

BLUFFTON ROAD
N89° 58' 50"E

N

Alignment=STH49
Station=119+23.55
Offset=-1.159
Y=286608.882
X=572949.759

95°9'16"

120 125 130 135 140 145

BP: 10+00.00'D'
Y = 286608.882
X = 572949.759

N1° 07' 57"W

EP: 10+00.00'E'
Y = 287909.297
X = 572924.055

N1° 07' 57"W

88°49'27"

STH 49

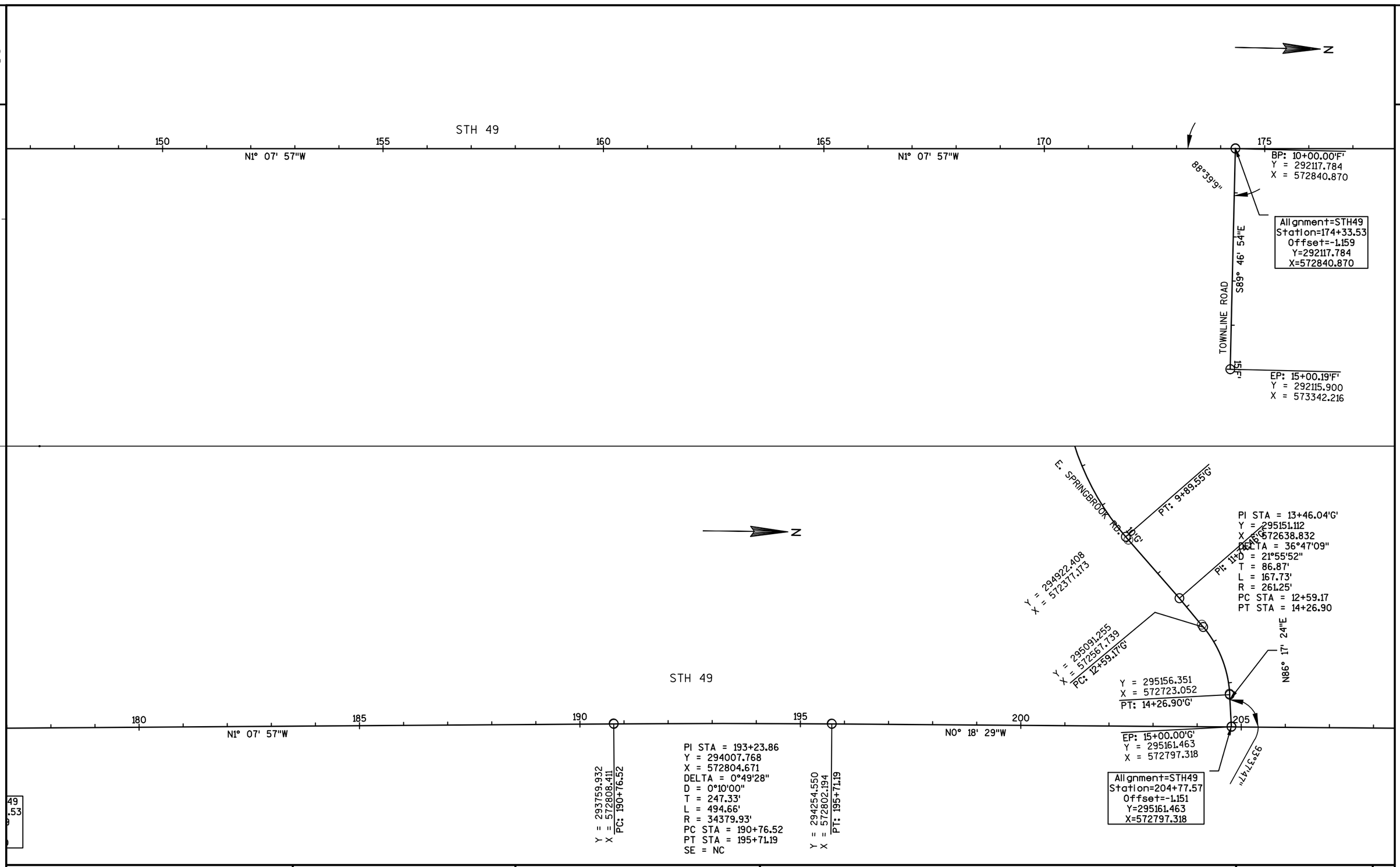
Alignment=STH49
Station=132+24.22
Offset=-1.159
Y=287909.297
X=572924.055

MC CONNEL ROAD
S89° 57' 14"E

Y = 286608.503
X = 573449.604
EP: 14+98.69'D'

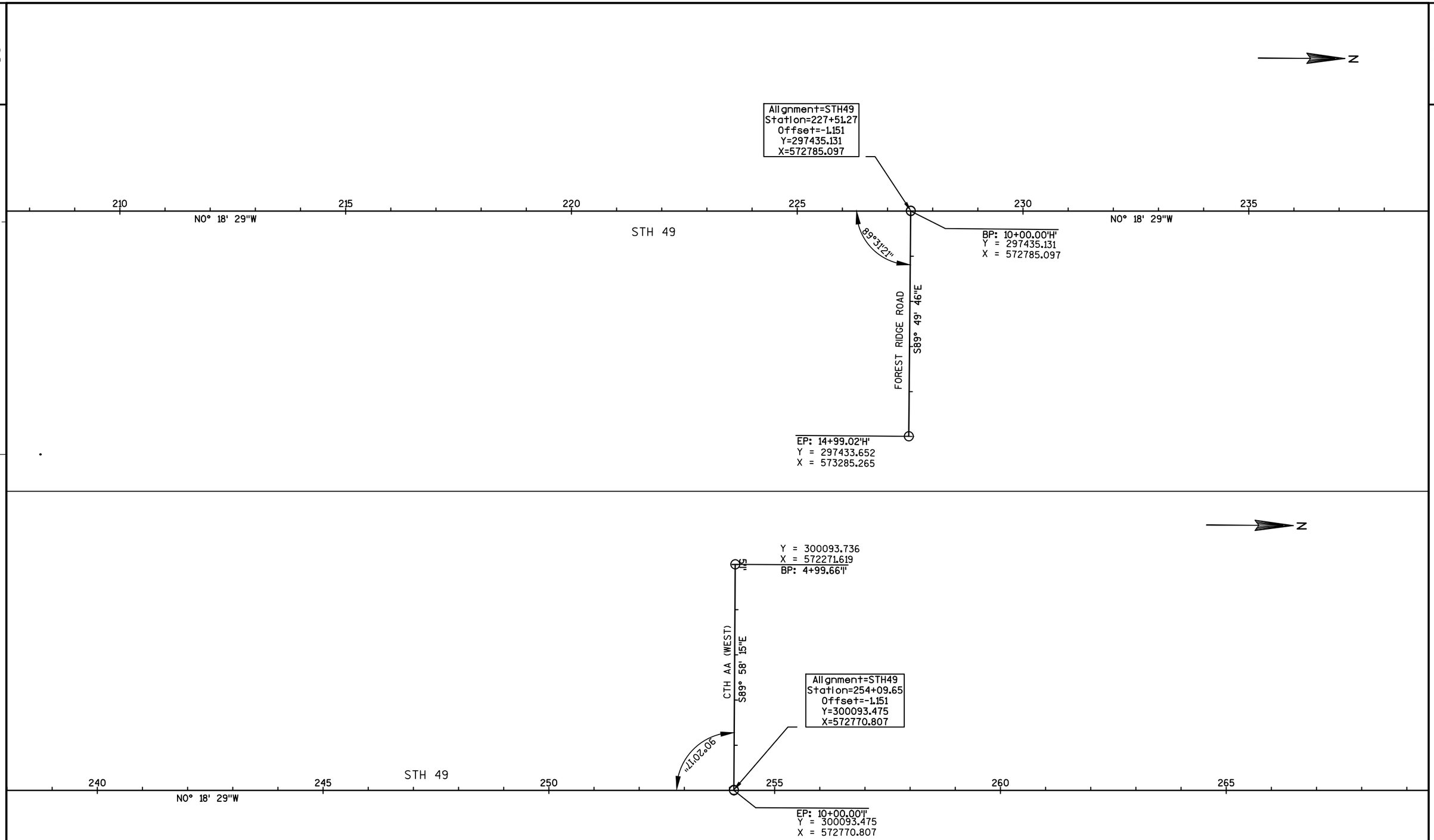
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	ALIGNMENT DIAGRAM	SHEET 182	E



PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	ALIGNMENT DIAGRAM	SHEET 183	E

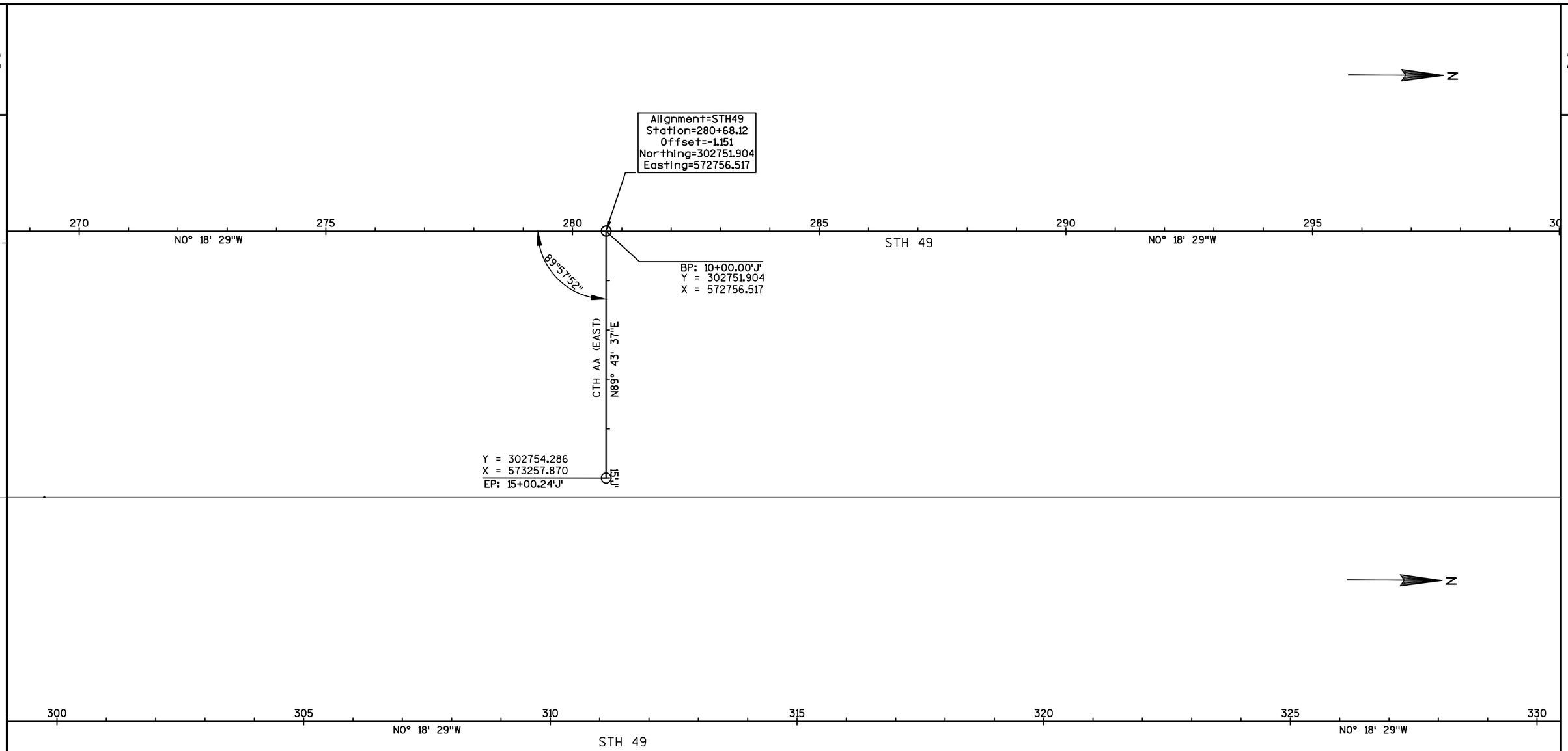
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PROJECT NO:6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	ALIGNMENT DIAGRAM	SHEET	E

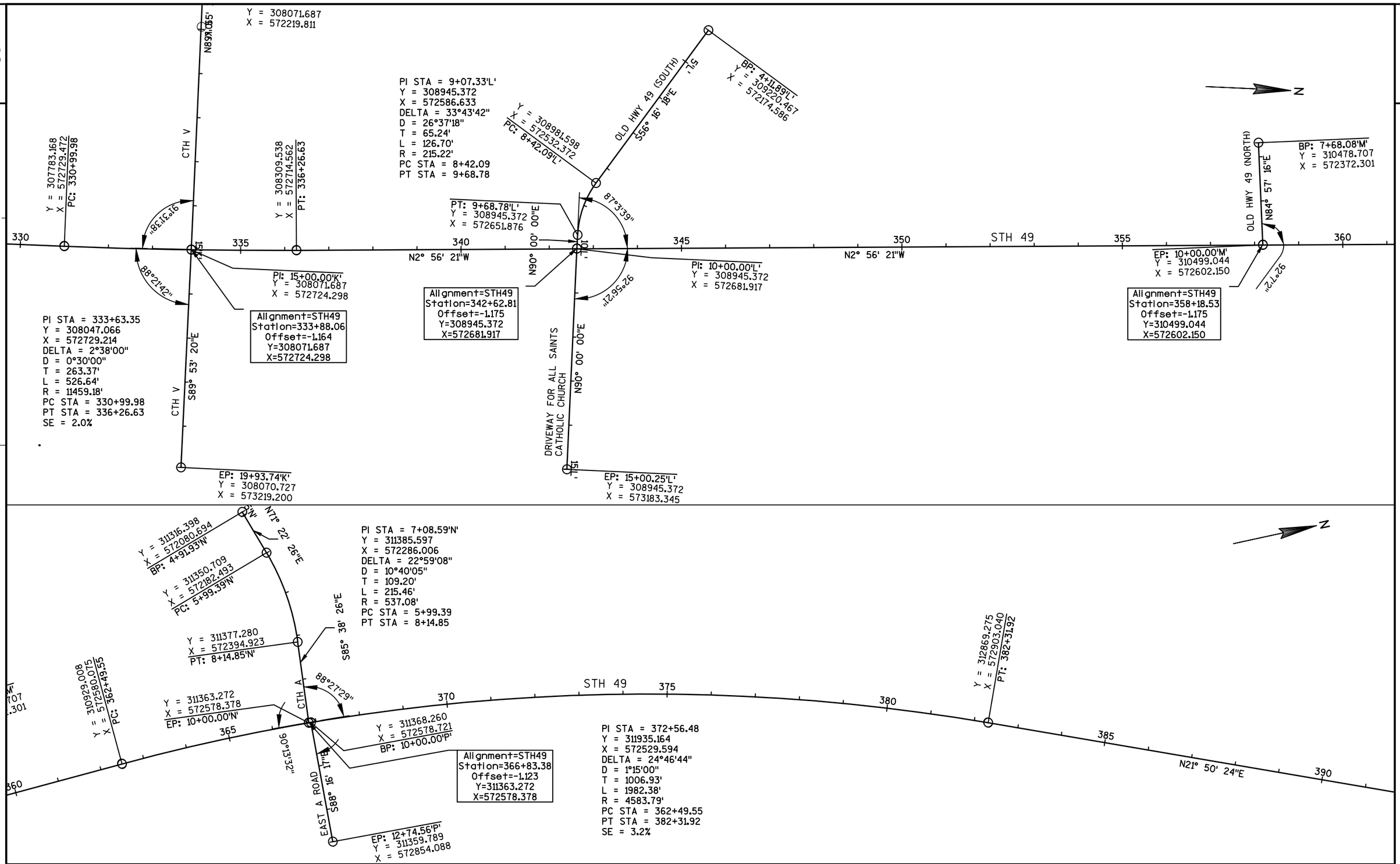
FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\027201_AD.DWG PLOT DATE : 4/10/2018 12:56 PM PLOT BY : STONE, JAY E PLOT NAME : PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42

2

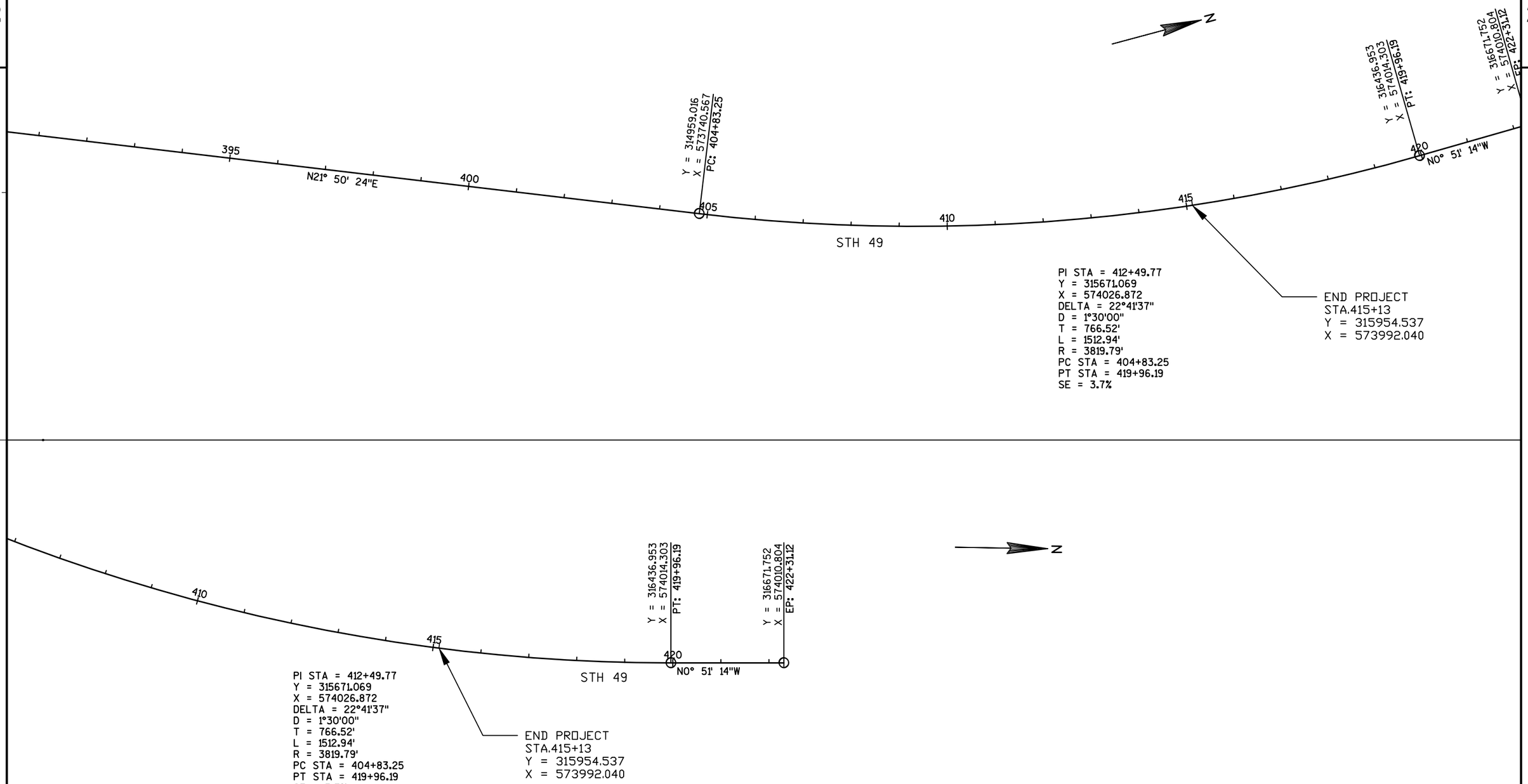


PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	ALIGNMENT DIAGRAM	SHEET	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\027201_AD.DWG PLOT DATE : 4/10/2018 12:56 PM PLOT BY : STONE, JAY E PLOT NAME : PLOT SCALE : 1 IN:200 FT



PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	ALIGNMENT DIAGRAM	SHEET 186	E



PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	ALIGNMENT DIAGRAM	SHEET 187	E

6210-00-72

Line	Item	Item Description	Unit	Total	Qty
0002	201.0105	Clearing	STA	11.000	11.000
0004	201.0205	Grubbing	STA	7.000	7.000
0006	203.0100	Removing Small Pipe Culverts	EACH	4.000	4.000
0008	203.0200	Removing Old Structure (station) 01. 289+55	LS	1.000	1.000
0010	204.0110	Removing Asphaltic Surface	SY	3,536.000	3,536.000
0012	204.0115	Removing Asphaltic Surface Butt Joints	SY	417.000	417.000
0014	204.0120	Removing Asphaltic Surface Milling	SY	11,084.000	11,084.000
0016	204.0125	Removing Asphaltic Surface Milling	TON	21,805.000	21,805.000
0018	204.0150	Removing Curb & Gutter	LF	184.000	184.000
0020	204.0165	Removing Guardrail	LF	8,509.000	8,509.000
0022	205.0100	Excavation Common	CY	8,669.000	8,669.000
0024	211.0100	Prepare Foundation for Asphaltic Paving (project) 01. 6210-00-72	LS	1.000	1.000
0026	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	762.000	762.000
0028	213.0100	Finishing Roadway (project) 01. 6210-00-72	EACH	1.000	1.000
0030	305.0110	Base Aggregate Dense 3/4-Inch	TON	706.400	706.400
0032	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	2,901.300	2,901.300
0034	312.0110	Select Crushed Material	TON	3,554.300	3,554.300
0036	325.0100	Pulverize and Relay	SY	76,342.000	76,342.000
0038	440.4410	Incentive IRI Ride	DOL	28,800.000	28,800.000
0040	455.0605	Tack Coat	GAL	8,406.000	8,406.000
0042	460.2000	Incentive Density HMA Pavement	DOL	23,040.000	23,040.000
0044	460.4110.S	Reheating HMA Pavement Longitudinal Joints	LF	52,278.000	52,278.000
0046	460.6223	HMA Pavement 3 MT 58-28 S	TON	15,992.000	15,992.000
0048	460.6225	HMA Pavement 5 MT 58-28 S	TON	20,120.000	20,120.000
0050	465.0105	Asphaltic Surface	TON	760.000	760.000
0052	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	189.700	189.700
0054	465.0125	Asphaltic Surface Temporary	TON	1,056.000	1,056.000
0056	465.0310	Asphaltic Curb	LF	12.000	12.000
0058	465.0315	Asphaltic Flumes	SY	31.000	31.000
0060	465.0475	Asphalt Centerline Rumble Strips 2-Lane Rural	LF	32,213.000	32,213.000
0062	520.1024	Apron Endwalls for Culvert Pipe 24-Inch	EACH	2.000	2.000
0064	520.1036	Apron Endwalls for Culvert Pipe 36-Inch	EACH	2.000	2.000
0066	520.1048	Apron Endwalls for Culvert Pipe 48-Inch	EACH	1.000	1.000
0068	520.3148	Culvert Pipe Class III 48-Inch	LF	22.000	22.000
0070	520.3324	Culvert Pipe Class III-A 24-Inch	LF	88.000	88.000
0072	520.3336	Culvert Pipe Class III-A 36-Inch	LF	88.000	88.000
0074	520.8700	Cleaning Culvert Pipes	EACH	2.000	2.000
0076	520.9700.S	Culvert Pipe Liners (size) 01. 36-Inch	LF	156.000	156.000
0078	520.9700.S	Culvert Pipe Liners (size) 02. 42-Inch	LF	100.000	100.000

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Line	Item	Item Description	Unit	Total	Qty
0080	520.9750.S	Cleaning Culvert Pipes for Liner Verification	EACH	2.000	2.000
0082	521.3118	Culvert Pipe Corrugated Steel 18-Inch	LF	8.000	8.000
0084	521.3124	Culvert Pipe Corrugated Steel 24-Inch	LF	18.000	18.000
0086	522.0136	Culvert Pipe Reinforced Concrete Class III 36-Inch	LF	82.000	82.000
0088	522.0142	Culvert Pipe Reinforced Concrete Class III 42-Inch	LF	180.000	180.000
0090	522.1036	Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	EACH	2.000	2.000
0092	522.1042	Apron Endwalls for Culvert Pipe Reinforced Concrete 42-Inch	EACH	4.000	4.000
0094	524.0618	Apron Endwalls for Culvert Pipe Salvaged 18-Inch	EACH	1.000	1.000
0096	524.0624	Apron Endwalls for Culvert Pipe Salvaged 24-Inch	EACH	1.000	1.000
0098	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	93.000	93.000
0100	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	91.000	91.000
0102	603.8000	Concrete Barrier Temporary Precast Delivered	LF	1,050.000	1,050.000
0104	603.8125	Concrete Barrier Temporary Precast Installed	LF	2,100.000	2,100.000
0106	606.0100	Riprap Light	CY	5.000	5.000
0108	606.0200	Riprap Medium	CY	9.000	9.000
0110	614.0397	Guardrail Mow Strip Emulsified Asphalt	SY	1,697.000	1,697.000
0112	614.2300	MGS Guardrail 3	LF	4,795.000	4,795.000
0114	614.2310	MGS Guardrail 3 HS	LF	306.000	306.000
0116	614.2330	MGS Guardrail 3 K	LF	1,490.000	1,490.000
0118	614.2340	MGS Guardrail 3 L	LF	556.000	556.000
0120	614.2350	MGS Guardrail Short Radius	LF	573.000	573.000
0122	614.2610	MGS Guardrail Terminal EAT	EACH	36.000	36.000
0124	614.2630	MGS Guardrail Short Radius Terminal	EACH	8.000	8.000
0126	614.8010	Anchor Post Assembly Top Mount	EACH	36.000	36.000
0128	618.0100	Maintenance And Repair of Haul Roads (project) 01. 6210-00-72	EACH	1.000	1.000
0130	619.1000	Mobilization 01. 6210-00-72	EACH	1.000	1.000
0132	621.0100	Landmark Reference Monuments	EACH	36.000	36.000
0134	624.0100	Water	MGAL	70.000	70.000
0136	625.0100	Topsoil	SY	20,090.000	20,090.000
0138	628.1504	Silt Fence	LF	15,023.000	15,023.000
0140	628.1520	Silt Fence Maintenance	LF	15,023.000	15,023.000
0142	628.1905	Mobilizations Erosion Control	EACH	8.000	8.000
0144	628.1910	Mobilizations Emergency Erosion Control	EACH	16.000	16.000
0146	628.2002	Erosion Mat Class I Type A	SY	18,999.000	18,999.000
0148	628.2008	Erosion Mat Urban Class I Type B	SY	1,198.000	1,198.000
0150	628.5505	Polyethylene Sheeting	SY	366.000	366.000
0152	628.7504	Temporary Ditch Checks	LF	72.000	72.000

6210-00-72

Line	Item	Item Description	Unit	Total	Qty
0154	628.7555	Culvert Pipe Checks	EACH	58.000	58.000
0156	628.7570	Rock Bags	EACH	72.000	72.000
0158	629.0210	Fertilizer Type B	CWT	12.680	12.680
0160	630.0120	Seeding Mixture No. 20	LB	348.900	348.900
0162	630.0140	Seeding Mixture No. 40	LB	21.300	21.300
0164	630.0170	Seeding Mixture No. 70	LB	21.400	21.400
0166	633.5200	Markers Culvert End	EACH	20.000	20.000
0168	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	31.000	31.000
0170	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	63.000	63.000
0172	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	8.000	8.000
0174	637.2210	Signs Type II Reflective H	SF	585.740	585.740
0176	637.2230	Signs Type II Reflective F	SF	148.850	148.850
0178	638.2102	Moving Signs Type II	EACH	2.000	2.000
0180	638.2602	Removing Signs Type II	EACH	87.000	87.000
0182	638.3000	Removing Small Sign Supports	EACH	87.000	87.000
0184	642.5201	Field Office Type C	EACH	1.000	1.000
0186	643.0300	Traffic Control Drums	DAY	14,371.000	14,371.000
0188	643.0310.S	Temporary Portable Rumble Strips	LS	1.000	1.000
0190	643.0420	Traffic Control Barricades Type III	DAY	399.000	399.000
0192	643.0705	Traffic Control Warning Lights Type A	DAY	798.000	798.000
0194	643.0900	Traffic Control Signs	DAY	13,237.000	13,237.000
0196	643.1000	Traffic Control Signs Fixed Message	SF	64.000	64.000
0198	643.5000	Traffic Control	EACH	1.000	1.000
0200	645.0120	Geotextile Type HR	SY	19.000	19.000
0202	646.1020	Marking Line Epoxy 4-Inch	LF	41,160.000	41,160.000
0204	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	75,608.000	75,608.000
0206	646.3040	Marking Line Grooved Wet Ref Epoxy 8-Inch	LF	1,270.000	1,270.000
0208	646.4520	Marking Line Same Day Epoxy 4-Inch	LF	40,264.000	40,264.000
0210	646.6120	Marking Stop Line Epoxy 18-Inch	LF	45.000	45.000
0212	646.9000	Marking Removal Line 4-Inch	LF	900.000	900.000
0214	648.0100	Locating No-Passing Zones	MI	7.380	7.380
0216	649.0105	Temporary Marking Line Paint 4-Inch	LF	93,349.000	93,349.000
0218	649.0120	Temporary Marking Line Epoxy 4-Inch	LF	1,427.000	1,427.000
0220	649.0220	Temporary Marking Line Epoxy 8-Inch	LF	1,270.000	1,270.000
0222	649.0850	Temporary Marking Stop Line Removable Tape 18-Inch	LF	72.000	72.000
0224	650.4500	Construction Staking Subgrade	LF	15,378.000	15,378.000
0226	650.5000	Construction Staking Base	LF	15,378.000	15,378.000
0228	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	187.000	187.000
0230	650.6000	Construction Staking Pipe Culverts	EACH	10.000	10.000
0232	650.8000	Construction Staking Resurfacing Reference	LF	38,013.000	38,013.000

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Line	Item	Item Description	Unit	Total	Qty
0234	650.9910	Construction Staking Supplemental Control (project) 01. 6210-00-72	LS	1.000	1.000
0236	650.9920	Construction Staking Slope Stakes	LF	11,239.000	11,239.000
0238	661.0100	Temporary Traffic Signals for Bridges (structure) 01. Sta. 378+10	LS	1.000	1.000
0240	661.0100	Temporary Traffic Signals for Bridges (structure) 02. Sta. 389+12	LS	1.000	1.000
0242	661.0100	Temporary Traffic Signals for Bridges (structure) 03. Sta. 398+12	LS	1.000	1.000
0244	690.0150	Sawing Asphalt	LF	3,217.000	3,217.000
0246	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,400.000	2,400.000
0248	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	1,980.000	1,980.000
0250	SPV.0035	Special 01. Base Repair for CIR Pavement	CY	1,000.000	1,000.000
0252	SPV.0060	Special 01. Reestablish Section Corner Monuments	EACH	9.000	9.000
0254	SPV.0060	Special 02. Grading and Shaping Driveway	EACH	1.000	1.000
0256	SPV.0060	Special 03. Lane Shift	EACH	4.000	4.000
0258	SPV.0090	Special 01. Heavy Duty Silt fence	LF	587.000	587.000
0260	SPV.0090	Special 02. Removing curb head	LF	473.000	473.000
0262	SPV.0105	Special 01. Special Rip Rap Placement at Existing 8' X 8' Box Culvert	LS	1.000	1.000
0264	SPV.0105	Special 02. Prepare Foundation For HMA Layer 6210-00-72	LS	1.000	1.000
0266	SPV.0105	Special 03. Prepare Foundation for CIR Asphalt Pavement 6210-00-72	LS	1.000	1.000
0268	SPV.0180	Special 01. Cold-In-place Recycling (CIR) Asphalt Pavement	SY	72,001.000	72,001.000
0270	SPV.0195	Special 01. Stabilizing agent	TON	503.000	503.000

CLEARING & GRUBBING

STATION	LOCATION	201.0105 CLEARING STATIONS	201.0205 GRUBBING STATIONS	REMARKS
39+00 - 41+50	RIGHT	3	0	BUCKTHORN TREATMENT 10' PAST SLOPE INTERCEPT
205+00 - 205+50	LEFT	1	1	SPRINGBROOK ROAD NW QUAD
336+25 - 337+00	LEFT	1	1	
358+89 - 359+24	RIGHT	1	0	BUCKTHORN TREATMENT
367+25 - 371+50	LEFT	5	5	CLEAR 5' PAST SLOPE INTERCEPT CTH A NW QUAD
	TOTALS	11	7	

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REMOVING ASPHALTIC SURFACE

STATION - STATION	LOCATION	204.0110 SY	REMARKS
278+94 - 279+98	RT NB	81	TURN LANE
330+91 - 333+12	RT NB	276	TURN LANE
359+32 - 371+24	RT NB	1701	CLIMBING LANE
258+31 - 254+81	LT SB	185	TURN LANE
371+26 - 367+65	LT SB	240	TURN LANE
338+16 - 334+67	LT SB	205	TURN LANE
331+75 - 323+25	LT SB	663	TURN LANE
258+31 - 254+81	LT SB	185	TURN LANE
	TOTAL	3536	

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REMOVING SMALL PIPE CULVERTS

STATION	LOCATION	203.0100 EACH	REMARKS
222+24	CROSS DRAIN	1	
378+10	CROSS DRAIN	1	
389+12	CROSS DRAIN	1	
398+12	CROSS DRAIN	1	
	TOTAL	4	

REMOVING OLD STRUCTURE

STATION	203.0200 LS	REMARKS
289+55	1	METAL CATTLE PASS
	1	

REMOVING CURB HEAD

STATION - STATION	LOCATION	SPV 0090.02 LF	REMARKS
204+22 - 14+00G	SPRINGBROOK	98	SW QUAD
205+49 - 14+00G	SPRINGBROOK	119	NW QUAD
333+12 - 15+88K	CTH V	98	SE QUAD
333+35 - 14+04K	CTH V	86	SW QUAD
366+36 - 9+15N	CTH A	72	SW QUAD
	TOTAL	473	

REMOVING CURB & GUTTER

STATION - STATION	LOCATION	204.0150 LF	REMARKS
14'K'+05 - 334+66	LT	93	CTH V INTERSECTION
9'N'+02 - 367+66	LT	91	CTH A INTERSECTION
	TOTAL	184	

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REMOVING ASPHALTIC SURFACE BUTT JOINT

STATION - STATION	LOCATION	204.0115 SY	REMARKS
9"A"+18	LT & RT	20	BERLIN ROAD
8"B"+75	LT & RT	25	ZOBEL CO PARK DRIVEWAY
8"C"+23	LT & RT	20	CTH J
11"C"+67	LT & RT	20	BROOKLYN JCT ROAD
11"D"+63	LT & RT	20	McCONNEL ROAD
9"E"+16	LT & RT	18	BLUFFTON ROAD
11"F"+80	LT & RT	20	TOWNLINE ROAD
13"G"+70	LT & RT	19	SPRINGBROOK ROAD
11"H"+32	LT & RT	20	FOREST RIDGE ROAD
8"I"+69	LT & RT	19	CTH AA (WEST)
11"J"+23	LT & RT	18	CYH AA (EAST)
13"K"+31	LT & RT	20	CTH V (WEST)
16"K"+51	LT & RT	23	CTH V (EAST)
8"L"+56	LT & RT	20	OLD HWY 49 (SOUTH)
11"L"+10	LT & RT	28	ALL SAINTS CHURCH DRIVEWAY
9"M"+15	LT & RT	26	OLD HWY 49 (NORTH)
8"N"+37	LT & RT	25	CTH A (WEST)
10"O"+88	LT & RT	18	CTH A (EAST)
415+13	LT & RT	39	MAIN LINE END OF PROJECT
	TOTAL	417	

REMOVING ASPHALTIC SURFACE MILLING

STATION	- STATION	LOCATION	204.0120 SY	REMARKS
9'A'+18	- 9'A'+75	BERLIN RD.	264	
8'B'+75	- 9'B'+77	ZOBEL CO. PARK DWY	455	
8'C'+23	- 9'C'+66	CTH J	584	
10'C'+34	- 11'C'+67	BROOKLYN JCT RD.	547	
10'D'+23	- 11'D'+63	McCONNEL RD.	578	
9'E'+16	- 9'E'+77	BLUFFTON RD.	260	
10'F'+23	- 11'F'+80	TOWNLINE RD.	554	
13'G'+70	- 14'G'+79	E. SPRINGBROOK RD.	418	
10'H'+22	- 11'H'+32	FOREST RIDGE RD.	768	
8'I'+69	- 9'I'+77	CTH AA (WEST)	663	
10'J'+22	- 11'J'+23	CTH AA (EAST)	624	
13'K'+31	- 14'K'+67	CTH V	889	
15'K'+22	- 16'K'+30	CTH V	754	
8'L'+56	- 9'L'+66	OLD HWY 49	829	
10'L'+27	- 11'L'+10	ALL SAINTS CATHOLIC CHURCH	1241	
9'M'+15	- 9'M'+69	OLD HWY 49	583	
8'N'+37	- 9'N'+66	CTH A	813	
10'N'+29	- 10'N'+88	EAST A RD.	259	
		TOTAL	11,084	

REMOVING ASPHALTIC SURFACE MILLING NB

STATION	-	STATION	LOCATION	204.0125 TON	REMARKS
35+00	-	225+25	RT NB	4376	DRIVING LANE
35+00	-	39+42	RT NB	30	SHOULDER
39+42	-	44+93	RT NB	56	BEAMGUARD
44+93	-	46+93	RT NB	13	SHOULDER
46+93	-	51+83	RT NB	50	BEAMGUARD
51+83	-	90+17	RT NB	260	SHOULDER
90+17	-	94+25	RT NB	62	INT SHOULDER
94+25	-	117+35	RT NB	156	SHOULDER
114+00	-	79+25	RT NB	679	BY PASS
117+35	-	120+78	RT NB	56	INT SHOULDER
120+78	-	137+92	RT NB	115	SHOULDER
137+92	-	142+81	RT NB	62	BEAMGUARD
142+81	-	172+54	RT NB	199	SHOULDER
172+54	-	175+86	RT NB	57	INT SHOULDER
175+86	-	195+25	RT NB	130	SHOULDER
195+25	-	208+42	RT NB	210	BY PASS
208+42	-	225+25	RT NB	113	SHOULDER
225+25	-	229+30	RT NB	85	DRIVING LANE
229+30	-	276+48	RT NB	633	DRIVING LANE
229+30	-	276+48	RT NB	316	SHOULDER
230+21	-	232+01	RT NB	42	BEAMGUARD
276+48	-	282+52	RT NB	127	DRIVING LANE
282+52	-	328+47	RT NB	617	DRIVING LANE
282+52	-	328+47	RT NB	308	SHOULDER
299+93	-	303+51	RT NB	84	BEAMGUARD
328+47	-	335+41	RT NB	146	DRIVING LANE
335+41	-	339+23	RT NB	42	DRIVING LANE
335+41	-	339+23	RT NB	34	SHOULDER
339+23	-	344+50	RT NB	111	DRIVING LANE
344+50	-	359+32	RT NB	161	DRIVING LANE
344+50	-	359+32	RT NB	133	SHOULDER
359+32	-	371+24	RT NB	251	DRIVING LANE
371+24	-	405+60	RT NB	374	DRIVING LANE
371+24	-	405+60	RT NB	307	SHOULDER
405+60	-	410+13	RT NB	51	SHOULDER
405+60	-	415+13	RT NB	201	DRIVING LANE
413+67	-	415+13	RT NB	15	SHOULDER
			TOTAL	10,662	

REMOVING ASPHALTIC SURFACE MILLING SB

STATION	-	STATION	LOCATION	204.0125 TON	REMARKS
415+13	-	407+44	LT SB	162	DRIVING LANE
411+40		407+47	LT SB	59	SHOULDER
407+44	-	373+40	LT SB	394	DRIVING LANE
407+44	-	373+40	LT SB	324	SHOULDER
373+40	-	366+36	LT SB	221	DRIVING LANE
366+36	-	365+37	LT SB	42	DRIVING LANE
365+37	-	360+25	LT SB	108	DRIVING LANE
365+37	-	360+25	LT SB	56	CLIMBING LANE
365+37	-	360+25	LT SB	46	SHOULDER
360+25	-	356+68	LT SB	151	DRIVING LANE
356+68	-	344+85	LT SB	249	DRIVING LANE
356+68	-	344+85	LT SB	129	CLIMBING LANE
356+68	-	344+85	LT SB	106	SHOULDER
344+85	-	341+41	LT SB	145	DRIVING LANE
341+41	-	338+16	LT SB	68	DRIVING LANE
341+41	-	338+16	LT SB	35	CLIMBING LANE
341+41	-	338+16	LT SB	23	SHOULDER
338+16	-	331+75	LT SB	270	DRIVING LANE
331+75	-	323+25	LT SB	179	DRIVING LANE
323+25	-	258+31	LT SB	871	DRIVING LANE
258+31	-	252+29	LT SB	127	DRIVING LANE
252+29	-	225+25	LT SB	363	DRIVING LANE
252+29	-	225+25	LT SB	181	SHOULDER
225+25	-	206+60	LT SB	125	SHOULDER
206+60	-	197+49	LT SB	176	BEAM GUARD
197+49	-	143+49	LT SB	362	SHOULDER
143+49	-	138+73	LT SB	49	BEAM GUARD
138+73	-	134+16	LT SB	31	SHOULDER
134+16	-	131+11	LT SB	45	INTERSECTION
131+11	-	95+21	LT SB	234	SHOULDER
127+95	-	83+20	LT SB	862	BY PASS
95+21	-	91+18	LT SB	62	INTERSECTION
91+18	-	82+09	LT SB	61	SHOULDER
82+09	-	78+72	LT SB	60	INTERSECTION
78+72	-	68+53	LT SB	68	SHOULDER
68+53	-	63+44	LT SB	93	INTERSECTION
63+44	-	51+72	LT SB	79	SHOULDER
51+72	-	46+83	LT SB	55	BEAM GUARD
46+83	-	45+74	LT SB	7	SHOULDER
45+74	-	40+36	LT SB	53	BEAM GUARD
40+36	-	35+00	LT SB	36	SHOULDER
225+25	-	35+00	LT SB	4,376	DRIVING LANE
			TOTAL	11,143	

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REMOVING GUARDRAIL

STATION - STATION	LOCATION	204.0165 LF	REMARKS
41+60 - 42+90	RT	130	
42+30 - 43+65	LT	135	
48+60 - 49+85	LT	125	
48+80 - 50+15	RT	135	
139+82 - 141+09	RT	127	
140+46 - 141+74	LT	128	
197+73 - 14'G'+00	LT - RT	743	WRAPS INTERSECTION RADII
197+74 - 206+27	RT	853	
14'K'+03 - 206+22	LT - LT	187	WRAPS INTERSECTION RADII
230+00 - 231+30	LT	130	
230+47 - 231+75	RT	128	
283+71 - 288+11	LT	440	
283+77 - 288+04	RT	427	
289+13 - 290+29	LT	116	CATTLE PASS
289+20 - 290+22	RT	102	CATTLE PASS
300+20 - 302+74	LT	254	
300+22 - 303+25	RT	303	
331+14 - 16'K'+30	RT - RT	335	WRAPS INTERSECTION RADII
331+21 - 13'K'+50	LT - RT	350	WRAPS INTERSECTION RADII
13'K'+47 - 341+50	LT - LT	835	WRAPS INTERSECTION RADII
16'K'+38 - 335+42	LT - RT	236	WRAPS INTERSECTION RADII
358+83 - 365+50	RT	667	
359+52 - 8'N'37	LT - RT	834	WRAPS INTERSECTION RADII
8'N'+35 - 371+17	LT - LT	520	WRAPS INTERSECTION RADII
412+32 - 413+48	LT	116	
411+85 - 413+38	RT	153	
	TOTAL	8509	

FILE NAME : _____ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1

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EARTHWORK SUMMARY SHEET

Division	From/To Station	Location	205.0100 Excavation Common (1)	Salvaged/Unusable Pavement Material	Available Material (3)	Unexpanded Fill	Expanded Fill (4)	Mass Ordinate +/- (5)	Waste	Comment:
			Cut (2)							
Division 1							Factor 1.25			
CTHA	39+41.5/09+00		2	0	2	438	548	-546		
CTHV	08+00/16+90		33	0	33	185	232	-198		
STH49-LT	15+90/415+00.1		2,480	0	2,480	1,430	1,788	692		
STH49-RT	36+74.9/413+85.1		1,946	0	1,946	1,041	1,302	644		
Culvert 222+24	222+24		928	81	847	0	0	847		
Culvert 289+55	289+55		911	97	814	0	0	814		
Culvert 378+10	378+10		783	81	702	0	0	702		
Culvert 389+12	389+12		762	81	681	0	0	681		
Culvert 398+12	398+12		821	81	740	0	0	740		
Sediment Trap	320+10		4	0	4	0	0	4		
Division 1 Subtotal			8,669	420	8,250	3,095	3,869	4,380	4,380	
Grand Total			8,669	420	8,250	3,095	3,869	4,380	4,380	

Notes:

(1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100

(2) Salvaged/Unsuable Pavement Material is included in Cut.

(3) Available Material = Cut - Salvaged/Unusuable Pavement Material

(4) Expanded Fill Factor = 1.25

(5) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

3

PREPARE FOUNDATION FOR ASPHALTIC SHOULDER

STATION - STATION	LOCATION	211.0400 STATION	REMARKS
35+00 - 415+13	LT	380	PROJECT
35+00 - 415+13	RT	380	PROJECT
15K+86 - 16K+51	LT	1	CTH V
8N+37 - 9N+02	LT	1	CTH A
TOTAL		762	

FINISHING ROADWAY (PROJECT)

STATION - STATION	LOCATION	213.0100 EACH	REMARKS
35+00 - 415+13	LT - RT	1	
TOTAL		1	

3

PREPARE FOUNDATION (6210-00-72)

STATION - STATION	LOCATION	211.0100 PREPARE FOUNDATION FOR ASPHALTIC PAVING PROJECT LS	SPV.0105.03 PREPARE FOUNDATION FOR CIR ASPHALT PAVEMENT LS	SPV.0105.02 PREPARE FOUNDATION FOR HMA LAYER LS	REMARKS
35+00 - 225+25	STH 49	1	--	--	
225+25 - 415+13	STH 49	--	1	1	
	TOTAL	1	1	1	

BASE AGGREGATE DENSE

STATION - STATION	LOCATION	305.0110 3/4-INCH TON	305.0120 1 1/4-INCH TON	312.0110 SELECT CRUSHED MATERIAL TON	REMARKS
40+36 - 42+00	LT	26.1	89.2	109.3	
44+15 - 45+75	LT	25.5	87.0	106.7	
46+83 - 48+43	LT	24.1	82.1	100.7	
50+12 - 51+72	LT	25.5	87.0	103.7	
138+73 - 140+33	LT	25.5	87.0	106.7	
141+00 - 143+00	LT	31.9	108.7	133.3	
196+50 - 197+22	LT	11.5	39.2	48.0	
207+00 - 208+72	LT	27.4	93.5	114.7	
40+00 - 41+27	RT	20.2	69.1	84.7	
43+33 - 44+93	RT	25.5	87.0	106.7	
46+94 - 48+54	RT	25.5	87.0	106.7	
20+22 - 51+82	RT	25.5	87.0	106.7	
137+94 - 139+28	RT	21.3	72.9	89.4	
141+21 - 142+81	RT	25.5	87.0	106.7	
196+00 - 196+97	RT	15.5	52.7	64.7	
203+23	LT	2.6	--	--	SPECIAL RIPRAP PLACEMENT
206+83 - 207+50	RT	10.7	36.4	44.7	
228+43 - 229+78	LT	15.0	73.4	90.0	
231+85 - 233+19	LT	14.9	72.9	89.3	
254+81 - 257+50	LT	29.9	146.3	179.3	
281+59 - 283+19	LT	17.8	87.0	106.7	
258+00 - 287+00	LT	22.2	108.7	133.3	
287+63 - 288+13	LT	5.6	27.2	33.3	
289+48 - 289+55	LT	0.8	3.8	4.7	
299+00 - 299+48	LT	5.3	26.1	32.0	
303+00 - 304+50	LT	16.7	81.6	100.0	
236+00 - 330+97	LT	55.2	270.2	331.3	
336+00 - 337+50	LT	16.7	81.6	100.0	
228+88 - 230+28	RT	15.6	76.1	93.3	
231+85 - 233+45	RT	17.8	87.0	106.7	
227+00 - 279+98	RT	33.1	162.0	198.7	
281+50 - 283+00	RT	16.7	81.6	100.0	
286+50 - 287+00	RT	5.6	27.2	33.3	
289+48 - 289+58	RT	1.1	5.4	6.7	
298+13 - 299+38	RT	13.9	68.0	83.3	
303+81 - 305+00	RT	13.2	64.7	79.3	
328+47 - 330+27	RT	20.0	97.9	120.0	
	TOTALS	706.4	2901.3	3554.3	

NOTE: MAINLINE SHOULDERS: REUSE AND PLACE SALVAGED BASS AGGREGATE DENSE MATERIAL FROM PREPARE FOUNDATION FOR ASPHALTIC SHOULDER OPERATION.
PAID AS PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS.

3

PULVERIZE AND RELAY

STATION	-	STATION	LOCATION	325.0100 SY	REMARKS
35+00	-	225+25	RT NB	25367	DRIVING LANE
35+00	-	39+42	RT NB	147	SHOULDER
39+42	-	44+93	RT NB	324	BEAMGUARD
44+93	-	46+93	RT NB	67	SHOULDER
46+93	-	51+83	RT NB	289	BEAMGUARD
51+83	-	90+17	RT NB	1293	SHOULDER
90+17	-	94+25	RT NB	357	INT SHOULDER
94+25	-	117+35	RT NB	773	SHOULDER
114+00	-	79+25	RT NB	3936	BYPASS
117+35	-	120+78	RT NB	327	INT SHOULDER
120+78	-	137+92	RT NB	573	SHOULDER
137+92	-	142+81	RT NB	357	BEAMGUARD
142+81	-	172+54	RT NB	991	SHOULDER
172+54	-	175+86	RT NB	331	INT SHOULDER
175+86	-	195+25	RT NB	645	SHOULDER
195+25	-	208+42	RT NB	1220	BYPASS
208+42	-	225+25	RT NB	561	SHOULDER
			TOTAL	37,558	

PULVERIZE AND RELAY

STATION	-	STATION	LOCATION	325.0100 SY	REMARKS
225+25	-	206+60	LT SB	622	SHOULDER
206+60	-	197+49	LT SB	1018	BEAM GUARD
197+49	-	143+49	LT SB	1801	SHOULDER
143+49	-	138+73	LT SB	282	BEAM GUARD
138+73	-	134+16	LT SB	152	SHOULDER
134+16	-	131+11	LT SB	263	INTERSECTION
131+11	-	95+21	LT SB	1164	SHOULDER
127+95	-	83+20	LT SB	4995	BYPASS
95+21	-	91+18	LT SB	359	INTERSECTION
91+18	-	82+09	LT SB	304	SHOULDER
82+09	-	78+72	LT SB	347	INTERSECTION
78+72	-	68+53	LT SB	340	SHOULDER
68+53	-	63+44	LT SB	537	INTERSECTION
63+44	-	51+72	LT SB	391	SHOULDER
51+72	-	46+83	LT SB	317	BEAM GUARD
46+83	-	45+74	LT SB	36	SHOULDER
45+74	-	40+36	LT SB	310	BEAM GUARD
40+36	-	35+00	LT SB	179	SHOULDER
225+25	-	35+00	LT SB	25,367	DRIVING LANE
			TOTAL	38,784	

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REHEATING HMA PAVEMENT LONGITUDINAL JOINTS

STATION - STATION	LOCATION	460.4110.S LF	REMARKS
35+00 - 415+13	C/L	38013	SURFACE LAYER ONLY
79+24NB - 114+00NB	12'RT	3476	SURFACE LAYER ONLY
359+20NB - 371+24NB	12'RT	1294	BYPASS LANE
373+40SB - 323+25SB	0'-12'LT	5015	SURFACE LAYER ONLY
128+00SB - 83+20SB	12'LT	4480	SURFACE LAYER ONLY
	TOTALS	52278	

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HMA PAVEMENT NB

STATION	-	STATION	LOCATION	455.0605 TACK COAT (GAL)	460.6223 HMA PAVEMENT 3MT 58-28 S TON	460.6225 HMA PAVEMENT 5MT 58-28 S TON	REMARKS
35+00	-	225+25	RT NB	1268	3647	2188	DRIVING LANE
35+00	-	39+42	RT NB	7	21	13	SHOULDER
39+42	-	44+93	RT NB	27	79	47	BEAMGUARD
44+93	-	46+93	RT NB	3	10	6	SHOULDER
46+93	-	51+83	RT NB	24	69	42	BEAMGUARD
51+83	-	90+17	RT NB	65	186	112	SHOULDER
90+17	-	94+25	RT NB	18	52	31	INT SHOULDER
94+25	-	117+35	RT NB	39	111	67	SHOULDER
114+00	-	79+25	RT NB	197	566	339	BY PASS
117+35	-	120+78	RT NB	16	46	28	INT SHOULDER
120+78	-	137+92	RT NB	27	82	49	SHOULDER
137+92	-	142+81	RT NB	24	69	41	BEAMGUARD
142+81	-	172+54	RT NB	50	142	85	SHOULDER
172+54	-	175+86	RT NB	17	47	28	INT SHOULDER
175+86	-	195+25	RT NB	32	93	56	SHOULDER
195+25	-	208+42	RT NB	69	198	119	BY PASS
208+42	-	225+25	RT NB	28	81	48	SHOULDER
225+25	-	229+30	RT NB	27	---	85	DRIVING LANE
229+30	-	276+48	RT NB	393	---	1243	DRIVING LANE
228+89		233+45	RT NB	16	46	28	BEAMGUARD
276+48	-	282+52	RT NB	40	---	127	DRIVING LANE
282+52	-	328+47	RT NB	383	---	1210	DRIVING LANE
297+93	-	305+40	RT NB	25	73	44	BEAMGUARD
328+47	-	335+41	RT NB	46	---	147	DRIVING LANE
335+41	-	339+23	RT NB	34	---	107	DRIVING LANE
339+23	-	344+50	RT NB	35	---	111	DRIVING LANE
344+50	-	359+32	RT NB	132	---	417	DRIVING LANE
359+32	-	371+24	RT NB	79	---	251	DRIVING LANE
371+24	-	405+60	RT NB	305	---	966	DRIVING LANE
405+60	-	410+13	RT NB	61	---	113	SHOULDER
405+60	-	415+13	RT NB	64	---	201	DRIVING LANE
410+13	-	413+67	RT NB	19	32	54	SHOULDER
413+67	-	415+13	RT NB	11	---	15	SHOULDER
			TOTAL	3,581	5,650	8,418	

HMA PAVEMENT SB

STATION		STATION	LOCATION	455.0605 TACK COAT (GAL)	460.6223 HMA PAVEMENT 3MT 58-28 S TON	460.6225 HMA PAVEMENT 5MT 58-28 S TON	REMARKS
415+13	-	411+40	LT SB	20	59	35	DRIVING LANE
411+40	-	407+44	LT SB	66	---	172	SHOULDER
415+13	-	407+44	LT SB	51	103	162	SHOULDER
407+44	-	373+40	LT SB	332	647	1017	DRIVING LANE
373+40	-	366+36	LT SB	70	141	222	DRIVING LANE
373+40	-	366+36	LT SB	23	127	167	DEV CLIMBING LANE
371+27	-	367+66	LT SB	50	135	177	RIGHT TURN LANE
366+36	-	365+37	LT SB	13	27	42	DRIVING LANE
365+37	-	360+25	LT SB	80	160	252	DRIVING LANE
360+25	-	356+68	LT SB	48	96	151	DRIVING LANE
356+68	-	344+85	LT SB	158	317	498	DRIVING LANE
356+68	-	344+85	LT SB	36	95	125	CLIMBING LANE
344+85	-	341+41	LT SB	46	92	145	DRIVING LANE
341+41	-	338+16	LT SB	43	87	137	DRIVING LANE
338+16	-	331+75	LT SB	86	172	270	DRIVING LANE
338+16	-	334+67	LT SB	35	95	125	TURN LANE
331+75	-	323+25	LT SB	57	114	179	DRIVING LANE
331+75	-	323+25	LT SB	66	181	238	TURN LANE
331+75	-	323+25	LT SB	21	61	97	SHOULDER
323+25	-	258+31	LT SB	541	1089	1711	DRIVING LANE
305+27	-	298+13	LT SB	26	75	120	TURN LANE
289+78	-	281+62	LT SB	27	79	126	BEAM GUARD
258+31	-	254+81	LT SB	34	93	122	TURN LANE
258+31	-	252+29	LT SB	40	81	127	DRIVING LANE
252+29	-	225+25	LT SB	75	453	712	DRIVING LANE
233+15	-	228+46	LT SB	15	43	26	BEAM GUARD
225+25	-	206+60	LT SB	31	89	54	SHOULDER
208+71		195+63	LT SB	69	198	119	TURN LANE
197+49	-	143+49	LT SB	90	259	155	SHOULDER
143+49	-	138+73	LT SB	23	67	40	BEAM GUARD
138+73	-	134+16	LT SB	8	22	13	SHOULDER
134+16	-	131+11	LT SB	14	40	24	INTERSECTION
131+11	-	95+21	LT SB	58	167	100	SHOULDER
127+95	-	83+20	LT SB	250	718	431	BY PASS
95+21	-	91+18	LT SB	18	52	31	INTERSECTION
91+18	-	82+09	LT SB	15	44	26	SHOULDER
82+09	-	78+72	LT SB	17	48	29	INTERSECTION
78+72	-	68+53	LT SB	17	49	29	SHOULDER
68+53	-	63+46	LT SB	30	87	52	INTERSECTION
63+46	-	51+72	LT SB	20	56	34	SHOULDER
51+72	-	46+83	LT SB	24	69	42	BEAM GUARD
46+83	-	45+74	LT SB	2	5	3	SHOULDER
45+74	-	40+36	LT SB	27	77	46	BEAM GUARD
40+36	-	35+00	LT SB	9	26	15	SHOULDER
225+25	-	35+00	LT SB	1,268	3,647	2,188	DRIVING LANE
			TOTAL	4,049	10,342	10,586	

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HMA PAVEMENT

STATION	-	STATION	455.0605 TACK COAT (GAL)	460.6225 HMA PAVEMENT 5MT 58-28 S TON	REMARKS
9'A'+18	-	9'A'+75	18	27	BERLIN RD.
8'B'+75	-	9'B'+77	32	46	ZOBEL COUNTY PARK
8'C'+23	-	9'C'+66	41	59	CTH J
10'D'+34	-	11'D'+67	38	55	BROOKLYN JCT RD.
10'D'+23	-	11'D'+63	40	58	McCONNEL RD
9'E'+16	-	9'E'+77	18	26	BLUFFTION RD.
10'F'+23	-	11'F'+80	39	56	TOWNLINE RD.
13'G'+70	-	14'G'+79	29	42	SPRINGBROOK RD.
10'H'+22	-	11'H'+32	54	77	FOREST RIDGE RD.
8'I'+69	-	9'I'+77	46	67	CTH AA WEST
10'J'+22	-	11'J'+23	44	63	CTH AA EAST
13'K'+31	-	14'K'+67	62	89	CTH V WEST
15'K'+22	-	16'K'+51	53	76	CTH V EAST
8'L'+56	-	9'L'+66	58	83	OLD HWY 49
10'L'+27	-	11'L'+10	87	125	ALL SAINTS CATHOLIC CHURCH
9'M'+15	-	9'M'+69	41	59	OLD HWY 49
8'N'+37	-	9'N'+66	57	82	CTH A
10'N'+29	-	10'N'+88	18	26	EAST A RD.
		TOTALS	776	1,116	

HMA PROJECT TOTALS

LOCATION		455.0605 TACK COAT (GAL)	460.6223 HMA PAVEMENT 3MT 58-28 S TON	460.6225 HMA PAVEMENT 5MT 58-28 S TON	REMARKS
NORTH BOUND		3581	5650	8418	
SOUTH BOUND		4049	10342	10586	
INTERSECTIONS		776	--	1116	
	TOTAL	8,406	15,992	20,120	

ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

STATION	LOCATION	465.0120 TON	REMARKS
36+20	RT	4.4	PE
59+55	RT	4.9	PE
65+00	RT	6.9	PE
91+20	RT	2.5	PE
105+40	RT	6.2	PE
125+50	LT	4	PE
132+20	RT	6.7	PE
148+15	LT	5.5	PE
153+69	RT	7.6	PE
169+00	LT	5.3	CE
172+00	RT	6.8	PE
179+70	RT	5.8	PE
194+25	LT	6.3	CE
194+40	RT	8.9	CE
195+60	LT	7	CE
195+70	RT	5.3	CE
208+00	RT	5.2	CE
208+25	LT	4.6	PE
214+20	LT	6.2	PE
243+90	LT	6.7	PE
250+00	RT	5.7	PE
253+20	LT	1	PE
256+10	RT	6.3	CE
260+40	RT	5.8	PE
264+10	LT	3.5	PE
269+30	RT	5.4	PE
278+50	LT	5.4	PE
288+80	LT	7.1	PE
292+00	RT	6.8	PE
298+10	RT	4	PE
305+10	LT	6.8	PE
358+50	RT	4.4	PE
407+85	LT	3	CE
414+20	RT	7.7	CE
	TOTAL	189.7	

ASPHALTIC SURFACE

STATION - STATION	LOCATION	465.0105 TON	REMARKS
STAGE 1			
221+69 - 222+79	LEFT	76	
289+00 - 290+10	LEFT	76	
377+55 - 378+65	LEFT	76	
388+57 - 389+67	LEFT	76	
397+57 - 398+67	LEFT	76	
STAGE 2			
221+69 - 222+79	RIGHT	76	
289+00 - 290+10	RIGHT	76	
377+55 - 378+65	RIGHT	76	
388+57 - 389+67	RIGHT	76	
397+57 - 398+67	RIGHT	76	
	TOTAL	760	

ASPHALTIC SURFACE TEMPORARY

STATION - STATION	LOCATION	465.0125 TON	REMARKS
STAGE 1			
375+55 - 380+65	LEFT SHOULDER	156	
386+57 - 391+67	LEFT SHOULDER	156	
395+57 - 400+67	LEFT SHOULDER	156	
STAGE 2			
375+55 - 380+65	RIGHT SHOULDER	196	
386+57 - 391+67	RIGHT SHOULDER	196	
395+57 - 400+67	RIGHT SHOULDER	196	
	TOTAL	1056	

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ASPHALTIC CURB

STATION - STATION	LOCATION	465.0310 LF	REMARKS
15K+88 - 16K+00	RIGHT	12	CONNECT CURB TO FLUME
	TOTAL	12	

ASPHALTIC FLUMES

STATION	LOCATION	465.0315 SY	REMARKS
15"K"+88	LT	22	50' long
367+80	LT	9	20' long
	TOTAL	31	

ASPHALTIC CENTER LINE RUMBLE STRIP 2-LANE RURAL

STATION - STATION	LOCATION	465.0475 LF	REMARKS
35+00 - 415+13	CL	32213	
	TOTAL	32213	

GUARD RAIL MOW STRIP EMULSIFIED ASPHALT

STATION	-	STATION	LOCATION	614.0397 GUARDRAIL MOW STRIP EMULSIFIED ASHPALT SY	REMARKS
196+97	-	14"G"+07	LT	355	
196+63	-	207+07	RT	464	
299+48	-	303+92	LT	197	
299+12	-	304+06	RT	220	
358+75	-	366+35	RT	364	
411+75	-	413+93	LT	97	
			TOTALS	1697	

CROSS DRAINS & SIDE ROAD CULVERT PIPES

STATION	LOCATION	APRON ENDWALL FOR CULVERT PIPE 520.1048 48-INCH EACH	CULVERT PIPE CLASS III 520.3148 48-INCH LF	520.8700 CLEANING CULVERT PIPES EACH	CULVERT PIPE LINERS 520.9700.S 36-INCH LF	CULVERT PIPE LINERS 520.9700.S 42-INCH LF	520.9750.S CLEANING CULVERT PIPES FOR LINNER VERIFICATION EACH	CULVERT PIPE CORRUGATED STEEL 521.3118 18-INCH LF	CULVERT PIPE CORRUGATED STEEL 521.3124 24-INCH LF	APRON ENDWALLS FOR CULVERT PIPE SALVAGED 524.0618 18-INCH EACH	APRON ENDWALLS FOR CULVERT PIPE SALVAGED 524.0624 24-INCH EACH	REMARKS
286+92	CROSSDRAIN	---	6	---	---	100	1	---	---	---	---	
320+10	CROSSDRAIN	---	---	1	---	---	---	---	---	---	---	42" CROSSDRAIN
333+17	CROSSDRAIN	---	---	---	156	---	1	---	---	---	---	
358+74	RIGHT	---	---	1	---	---	---	8	---	1	---	18" DRIVEWAY CULVERT
8N+50	LEFT	1	16	---	---	---	---	---	---	---	---	CTH A ENDWALL ON LEFT
16K+03	LT CROSSDRAIN	---	---	---	---	---	---	---	18	---	1	CTH V CROSSDRAIN
	TOTALS	1	22	2	156	100	2	8	18	1	1	

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CROSS DRAINS & SIDE ROAD CULVERT PIPES

STATION	LOCATION	520.1024 APRON ENDWALL FOR CULVERT PIPE 24-INCH EACH	520.1036 APRON ENDWALL FOR CULVERT PIPE 36-INCH EACH	520.3324 CULVERT PIPE CLASS III-A 24-INCH LF	520.3336 CULVERT PIPE CLASS III-A 36-INCH LF	522.0136 CULVERT PIPE REINFORCED CONCRETE CLASS III 36-INCH LF	522.0142 CULVERT PIPE REINFORCED CONCRETE CLASS III 42-INCH LF	522.1036 APRON ENDWALL FOR CULVERT PIPE REINFORCED CONCRETE 36-INCH EACH	522.1042 APRON ENDWALL FOR CULVERT PIPE REINFORCED CONCRETE 42-INCH EACH	** JOINT TIES EACH	REMARKS
222+24	CROSSDRAIN	---	2	---	88	---	---	---	---	24	** IF CONCRETE
289+55	CROSSDRAIN	2	---	88	---	---	---	---	---	24	** IF CONCRETE
378+10	CROSSDRAIN	---	---	---	---	82	---	2	---	24	
389+12	CROSSDRAIN	---	---	---	---	---	86	---	2	24	
398+12	CROSSDRAIN	---	---	---	---	---	94	---	2	26	
	TOTALS	2	2	88	88	82	180	2	4	122	

** NOT A BID ITEM. ALL JOINTS SHALL HAVE JOINT TIES.

MGS GUARDRAIL

STATION - STATION	LOCATION	614.2300 3 LF	614.2310 3 HS LF	614.2330 3K LF	614.2340 3 L LF	614.2350 SHORT RADIUS LF	614.2610 TERMINAL EAT EACH	614.2630 SHORT RADIUS TERMINAL EACH	614.8010 ANCHOR POST ASSEMBLY TOP MOUNT LF	REMARKS
40+76.50 - 41+29.625	RT	---	---	---	---	---	1	---	---	
41+29.625 - 41+92.125	RT	62.5	---	---	---	---	---	---	---	
41+92.125 - 43+04.625	RT	---	---	--	112.5	---	---	---	---	
43+04.625 - 43+57.750	RT	---	---	---	---	---	1	---	---	
41+70.750 - 42+23.875	LT	---	---	---	---	---	1	---	---	
42+23.875 - 43+36.375	LT	---	---	--	112.5	---	---	---	---	
43+36.375 - 43+86.375	LT	50.0	---	---	---	---	---	---	---	
43+86.375 - 44+39.500	LT	---	---	---	---	---	1	---	---	
48+18.250 - 48+71.375	LT	---	---	---	---	---	1	---	---	
48+71.375 - 49+83.875	LT	---	---	--	112.5	---	---	---	---	
49+83.875 - 50+37.000	LT	---	---	---	---	---	1	---	---	
48+28.500 - 48+81.625	RT	---	---	---	---	---	1	---	---	
48+81.625 - 49+94.125	RT	---	---	--	112.5	---	---	---	---	
49+94.125 - 50+47.250	RT	---	---	---	---	---	1	---	---	
139+27.500 - 139+80.625	RT	---	---	---	---	---	1	---	---	
139+80.625 - 140+15.000	RT	34.4	---	---	---	---	---	---	---	
140+15.000 - 140+93.125	RT	---	78.1	---	---	---	---	---	---	
140+40.000 - 140+68.125	RT	---	---	---	---	---	---	---	10	
140+93.125 - 141+46.250	RT	---	---	---	---	---	1	---	---	
140+07.750 - 140+60.875	LT	---	---	---	---	---	1	---	---	
140+60.875 - 141+39.000	LT	---	78.1	---	---	---	---	---	---	
140+85.875 - 141+14.000	LT	---	---	---	---	---	---	---	10	
141+39.000 - 141+60.875	LT	21.9	---	---	---	---	---	---	---	
141+60.875 - 142+14.000	LT	---	---	---	---	---	1	---	---	
196+63.500 - 197+16.625	RT	---	---	---	---	---	1	---	---	
197+16.625 - 198+51	RT	134.4	---	---	---	---	---	---	---	
198+51 - 205+01	RT	---		803.1	---	---	---	---	---	
205+01 - 206+54.125	RT	153.1	---	---	---	---	---	---	---	
206+54.125 - 207+07.250	RT	---	---	---	---	---	1	---	---	
196+97.000 - 197+50.000	LT	---	---	---	---	---	1	---	---	
197+50.000 - 198+50	LT	100.0	---	---	---	---	---	---	---	
198+50 - 204+22	LT	---	---	572.0	---	---	---	---	---	
204+22.000 - 14'G'+36	SW QUAD	---	---	---	---	62.0	---	---	---	
14'G'+36 - 14'G'+07	RT	---	---	---	---	---	---	1	---	
14'G'+02 - 14'G'+27	LT	---	---	---	---	---	---	1	---	
14'G'+27 - 205+49.000	LT	---	---	---	---	89.0	---	---	---	
205+49.000 - 206+84.000	LT	135.0	---	---	---	---	---	---	---	
206+84.000 - 207+37.000	LT	---	---	---	---	---	1	---	---	
229+77.750 - 230+30.875	LT	---	---	---	---	---	1	---	---	
230+30.875 - 231+05.875	LT	---	75.0	---	---	---	---	---	---	
230+59.000 - 230+80.875	LT	---	---	---	---	---	---	---	8	
231+05.875 - 231+30.875	LT	25.0	---	---	---	---	---	---	---	
231+30.875 - 231+84.000	LT	---	---	---	---	---	1	---	---	
230+03.375 - 230+56.500	RT	---	---	---	---	---	1	---	---	
230+56.500 - 230+81.500	RT	25.0	---	---	---	---	---	---	---	
230+81.500 - 231+56.500	RT	---	75.0	---	---	---	---	---	---	
231+06.500 - 231+28.375	RT	---	---	---	---	---	---	---	8	

CONTINUED ON NEXT PAGE

MGS GUARDRAIL

STATION - STATION	LOCATION	614.2300 3 LF	614.2310 3 HS LF	614.2330 3K LF	614.2340 3 L LF	614.2350 SHORT RADIUS LF	614.2610 TERMINAL EAT EACH	614.2630 SHORT RADIUS TERMINAL EACH	614.8010 ANCHOR POST ASSEMBLY TOP MOUNT LF	REMARKS
231+56.500 - 232+09.625	RT	---	---	---	---	---	1	---	---	
282+94.250 - 283+47.375	LT	---	---	---	---	---	1	---	---	
283+47.375 - 284+00.5	LT	53.1	---	---	---	---	---	---	---	
284+00.5 - 287+59.875		---	---	115.0	---	---	---	---	---	
287+59.875 - 288+13.000	LT	---	---	---	---	---	1	---	---	
299+12.500 - 299+65.625	RT	---	---	---	---	---	1	---	---	
299+65.625 - 303+53.125	RT	387.5	---	---	---	---	---	---	---	
303+53.125 - 304+06.250	RT	---	---	---	---	---	1	---	---	
299+48.000 - 300+01.125	LT	---	---	---	---	---	1	---	---	
300+01.125 - 303+38.625	LT	337.5	---	---	---	---	---	---	---	
303+38.625 - 303+91.750	LT	---	---	---	---	---	1	---	---	
330+12.000 - 330+65.000	RT	---	---	---	---	---	1	---	---	
330+65.000 - 333+12.000	RT	247.0	---	---	---	---	---	---	---	
333+12.000 - 15'K'+88	RT	---	---	---	---	96.0	---	---	---	
15'K'+88 - 16'K'+13	RT	25.0	---	---	---	---	---	---	---	
16'K'+13 - 16'K'+41	RT	---	---	---	---	---	---	1	---	
330+47.000 - 331+00.000	LT	---	---	---	---	---	1	---	---	
331+00.000 - 333+35.000	LT	235.0	---	---	---	---	---	---	---	
333+35.000 - 14'K'+31	SW QUAD	---	---	---	---	56.0	---	---	---	
14'K'+31 - 13'K'+81	RT	50.0	---	---	---	---	---	---	---	
13'K'+81 - 13'K'+52	RT	---	---	---	---	---	---	1	---	
13'K'+48 - 13'K'+77	LT	---	---	---	---	---	---	1	---	
13'K'+77 - 14'K'+02	LT	25.0	---	---	---	---	---	---	---	
14'K'+02 - 334+66.000	LT	---	---	---	---	93.0	---	---	---	
334+66.000 - 341+51.000	LT	685.0	---	---	---	---	---	---	---	
341+51.000 - 342+04.000	LT	---	---	---	---	---	1	---	---	
358+70.000 - 358+70.000	RT	---	---	---	---	---	---	1	---	
358+70.000 - 358+89.000	RT	---	---	---	---	31.0	---	---	---	
358+89.000 - 365+82.000	RT	691.0	---	---	---	---	---	---	---	
365+82.000 - 366+35.000	RT	---	---	---	---	---	1	---	---	
359+26.000 - 359+79.000	LT	---	---	---	---	---	1	---	---	
359+79.000 - 366+36.000	LT	658.0	---	---	---	---	---	---	---	
366+36.000 - 9'O'+30	SW QUAD	---	---	---	---	54.0	---	---	---	
9'O'+30 - 8'O'+80	RT	50.0	---	---	---	---	---	---	---	
8'O'+80 - 8'O'+52	RT	---	---	---	---	---	---	1	---	
8'O'+37 - 8'O'+65	LT	---	---	---	---	---	---	1	---	
8'O'+65 - 9'O'+02	LT	37.5	---	---	---	---	---	---	---	
9'O'+02 - 367+60.000	LT	---	---	---	---	92.0	---	---	---	
367+60.000 - 371+88.000	LT	428.0	---	---	---	---	---	---	---	
371+88.000 - 372+41.000	LT	---	---	---	---	---	1	---	---	
411+22.710 - 411+75.835	RT	---	---	---	---	---	1	---	---	
411+75.835 - 413+13.335	RT	137.5	---	---	---	---	---	---	---	
413+13.335 - 413+66.460	RT	---	---	---	---	---	1	---	---	
411+74.500 - 412+27.625	LT	---	---	---	---	---	1	---	---	
412+27.625 - 412+33.875	LT	6.3	---	---	---	---	---	---	---	
412+33.875 - 413+40.125	LT	---	---	--	106.3	---	---	---	---	
413+40.125 - 413+93.250	LT	---	---	---	---	---	1	---	---	
TOTAL	TOTAL	4795	306	1490	556	573	36	8	36	

3

RIPRAP AND GEOTEXTILE FABRIC

STATION	LOCATION	RIPRAP 606.0100 LIGHT CY	RIPRAP 606.0200 MEDIUM CY	GEOTEXTILE FABRIC 645.0120 TYPE HR SY	REMARKS
320+10	32' RIGHT	0	4	19	
203+23	78' LEFT	5	5	0	
	TOTALS	5	9	19	

SPECIAL RIPRAP PLACEMENT AT 8X8 BOX CULVERT

STATION	LOCATION	SPV.0105.01 LS	REMARKS
203+23	78' LEFT	1	
	TOTAL	1	

WATER

STATION - STATION	LOCATION	624.0100 WATER MGAL	REMARKS
35+00 - 225+25	RT & LT	35	
225+25 - 415+13	RT & LT	35	
	TOTAL	70	

CONCRETE CURB & GUTTER

STATION - STATION	LOCATION	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	601.0557 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D LF	REMARKS
14K+00 - 14K+66	NW QUAD	93	---	DRIVEWAY STYLE
9N+11.5 - 9N+64	NW QUAD	---	91	SLOPED STYLE
	TOTAL	93	91	

LANDMARK REFERENCE MONUMENTS

LANDMARK STATION	LANDMARK LOCATION	SPV.0060.01 REESTABLISH SECTION CORNER MONUMENTS EACH	621.0100 LANDMARK REFERENCE MONUMENTS EACH	REMARKS
92+70	18' RT OF C/L	1	4	W 1/4 COR SEC 10 T16N R13E
119+23.5	95' RT OF C/L	1	4	SW COR SEC 3 T16N R13E
174+33.5	35' RT OF C/L	1	4	NW COR SEC 3 T16N R13E
200+90	18.5' RT OF C/L	1	4	E 1/4 COR SEC 33 T17N R13E
227+50	13' RT OF C/L	1	4	NE COR SEC 33 T17N R13E
254+20	7.9' LT OF C/L	1	4	E 1/4 COR SEC 28 T17N R13E
280+73	2' LT OF C/L	1	4	NE COR SEC 28 T17N R13E
307+33	20' LT OF C/L	1	4	E 1/4 COR SEC 21 T17N R13E
334+00	33' LT OF C/L	1	4	NE COR SEC 21 T17N R13E
	TOTAL	9	36	

SILT FENCE

STATION	LOCATION	628.1504 LF	628.1520 MAINTENANCE LF	SPV.0090.01 SILT FENCE HEAVY DUTY LF	REMARKS
39+37 - 41+32	RIGHT	297	297	--	
40+29 - 42+25	LEFT	292	292	--	
43+05 - 44+98	RIGHT	292	292	--	
43+80 - 45+90	LEFT	304	304	--	
46+79 - 48+79	LEFT	302	302	--	
46+84 - 48+83	RIGHT	300	300	--	
49+81 - 51+81	LEFT	301	301	--	
49+94 - 51+93	RIGHT	306	306	--	
106+90 - 111+33	RIGHT	551	551	--	
120+91 - 125+32	LEFT	558	558	--	
137+88 - 139+54	RIGHT	271	271	--	
138+41 - 140+58	LEFT	311	311	--	
141+19 - 142+94	RIGHT	278	278	--	
141+73 - 143+58	LEFT	292	292	--	
195+79 - 197+55	LEFT	278	278	--	
195+84 - 197+21	RIGHT	235	235	--	
206+51 - 207+81	RIGHT	227	227	--	
206+80 - 208+09	LEFT	230	230	--	
208+38 - 208+74	LEFT	124	124	--	
217+95 - 219+60	RIGHT	195	195		DO NOT TRENCH
221+67 - 222+78	RIGHT	234	234	--	
221+71 - 222+75	LEFT	229	229	--	
228+38 - 230+02	LEFT	264	264	--	
228+85 - 230+57	RIGHT	278	278	--	
231+27 - 233+29	LEFT	304	304	--	
231+85 - 233+58	RIGHT	291	291	--	
281+26 - 283+52	LEFT	330	330	--	
286+40 - 290+10	RIGHT	529	529	--	
287+59 - 290+09	LEFT	264	264	--	
297+87 - 298+02	RIGHT	15	15	--	
298+06 - 298+39	LEFT	42	42	--	
298+20 - 299+71	RIGHT	244	244	--	
298+55 - 300+04	LEFT	240	240	--	
303+38 - 304+97	LEFT	257	257	--	
303+52 -305+49	RIGHT	331	331	--	
326+94 - 331+03	LEFT	510	510	--	
328+94 - 330+69	RIGHT	273	273	--	
333+97 - 335+58	RIGHT	307	307	--	
334+12 - 337+80	LEFT	483	483	--	
341+35 - 342+19	LEFT	214	214	--	
358+71 - 360+10	LEFT	229	229	--	
367+00 - 371+06	LEFT	580	580	--	
377+92 - 378+30	RIGHT	91	91	63	
377+92 - 378+28	LEFT	93	93	66	
388+88 - 389+33	LEFT	97	97	84	
388+99 - 389+29	RIGHT	93	93	54	
397+88 - 398+32	RIGHT	95	95	44	
397+93 - 398+28	LEFT	93	93	63	
410+45 - 411+79	RIGHT	175	175	87	
411+35 - 412+30	LEFT	182	182	--	
413+22 - 413+92	RIGHT	29	29	73	
413+56 - 415+99	LEFT	347	347	--	
UNDISTRIBUTED	PROJECT	1336	1336	53	
	TOTALS	15023	15023	587	

TEMPORARY DITCH CHECKS

STATION	LOCATION	628.7504 LF	REMARKS
335+50	RIGHT	12	
334+50	RIGHT	12	
16K+50	RIGHT	12	
17K+00	RIGHT	12	
UNDISTRIBUTED	PROJECT	24	
	TOTAL	72	

CONCRETE BARRIER TEMPORARY PRECAST

STATION - STATION	LOCATION	603.8000 DELIVERED LF	603.8125 INSTALLED LF	REMARKS
376+37 - 379+83		350	--	
376+37 - 379+83	RIGHT	--	350	
376+37 - 379+83	LEFT	--	350	
387+39 - 390+85		350	--	
387+39 - 390+85	RIGHT	--	350	
387+39 - 390+85	LEFT	--	350	
396+39 - 399+85		350	--	
396+39 - 399+85	RIGHT	--	350	
396+39 - 399+85	LEFT	--	350	
	TOTAL	1050	2100	

GRADING AND SHAPING DRIVEWAY

STATION	LOCATION	SPV.0060.02 EACH	REMARKS
319+67	RIGHT	1	MOVE FIELD ENTRANCE
	TOTAL	1	

3

MOBILIZATIONS EROSION CONTROL

STATION - STATION	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	REMARKS
35+00 - 415+13	8	16	
TOTALS	8	16	

CULVERT PIPE CHECKS

STATION	LOCATION	628.7555 CULVERT PIPE CHECKS EACH	REMARKS
222+24	RIGHT	6	
286+92	RIGHT	8	
289+55	RIGHT	4	
333+17	RIGHT	6	
8+50	LEFT	8	
16K+04	LEFT	4	
378+10	RIGHT	6	
389+12	RIGHT	8	
398+12	LEFT	8	
TOTAL		58	

3

ROCK BAGS

STATION	LOCATION	628.5505 POLYETHYLENE SHEETING SY	628.7570 ROCK BAGS EACH	REMARKS
337+17	RIGHT	366	72	TEMPORARY DAM
	TOTAL	366	72	

MARKERS CULVERT END

STATION	LOCATION	633.5200 MARKERS CULVERT END EACH	REMARKS
222+24	CROSSDRAIN	2	
286+92	CROSSDRAIN	2	
289+55	CROSSDRAIN	2	
320+10	CROSSDRAIN	2	
333+17	CROSSDRAIN	2	
378+10	CROSSDRAIN	2	
389+12	CROSSDRAIN	2	
398+12	CROSSDRAIN	2	
8A+50	LEFT	2	
16K+04	LEFT CROSSDRAIN	2	
		20	

EROSION MAT

STATION - STATION	LOCATION	*625.0100 TOPSOIL SY	628.2002 CLASS I TYPE A SY	628.2008 URBAN CLASS I TYPE B SY	**629.0210 FERTILIZER TYPE B CWT	# 630.0120 SEEDING MIXTURE NO.20 LB	## 630.0140 SEEDING MIXTURE NO.40 LB	### 630.0170 SEEDING MIXTURE NO.70 LB	REMARKS
39+37 - 41+32	RIGHT	225	225	--	0.14	6.1	--	--	
40+29 - 42+25	LEFT	236	236	--	0.15	--	--	0.9	
43+05 - 44+98	RIGHT	220	220	--	0.14	5.9	--	--	
43+80 - 45+90	LEFT	240	240	--	0.15	--	--	0.9	
46+79 - 48+79	LEFT	229	229	--	0.14	--	--	0.8	
46+84 - 48+83	RIGHT	237	237	--	0.15	6.4	--	--	
49+81 - 51+81	LEFT	296	296	--	0.19	--	--	1.1	
49+94 - 51+93	RIGHT	275	275	--	0.17	7.4	--	--	
106+90 - 111+33	RIGHT	1171	1171	--	0.74	31.6	--	--	
120+91 - 125+32	LEFT	956	956	--	0.60	25.8	--	--	
137+88 - 139+54	RIGHT	202	202	--	0.13	5.5	--	--	
138+41 - 140+58	LEFT	255	255	--	0.16	6.9	--	--	
141+19 - 142+94	RIGHT	272	272	--	0.17	7.3	--	--	
141+73 - 143+58	LEFT	337	337	--	0.21	9.1	--	--	
195+79 - 197+55	LEFT	249	249	--	0.16	6.7	--	--	
195+84 - 197+21	RIGHT	140	140	--	0.09	3.8	--	--	
206+51 - 207+81	RIGHT	140	140	--	0.09	3.8	--	--	
206+80 - 208+09	LEFT	105	105	--	0.07	2.8	--	--	
208+38 - 208+74	LEFT	8	8	--	0.01	0.2	--	--	
221+67 - 222+78	RIGHT	257	257	--	0.16	--	--	0.9	
221+71 - 222+75	LEFT	243	243	--	0.15	--	--	0.9	
228+38 - 230+02	LEFT	215	215	--	0.14	--	--	0.8	
228+85 - 230+57	RIGHT	289	289	--	0.18	--	--	1.0	
231+27 - 233+29	LEFT	274	274	--	0.17	7.4	--	--	
231+85 - 233+58	RIGHT	327	327	--	0.21	--	--	1.2	
281+26 - 283+52	LEFT	316	316	--	0.20	8.5	--	--	
286+40 - 290+10	RIGHT	1201	1201	--	0.76	32.4	--	--	
287+59 - 290+09	LEFT	528	--	528	0.33	--	9.5	--	
297+87 - 298+02	RIGHT	4	4	--	0.01	0.1	--	--	
298+06 - 298+39	LEFT	39	39	--	0.02	1.1	--	--	
298+20 - 299+71	RIGHT	171	171	--	0.11	4.6	--	--	
298+55 - 300+04	LEFT	195	195	--	0.12	5.3	--	--	
303+38 - 304+97	LEFT	222	222	--	0.14	6.0	--	--	
303+52 -305+49	RIGHT	724	724	--	0.46	19.5	--	--	
319+21 - 319+57	RIGHT	240	240	--	0.15	6.5	--	--	
319+77 - 320+50	RIGHT	487	487	--	0.31	12.8	--	--	
326+94 - 331+03	LEFT	472	472	--	0.30	12.6	--	--	
328+94 - 330+69	RIGHT	169	169	--	0.11	4.6	--	--	
333+97 - 335+58	RIGHT	1233	1233	--	0.78	33.3	--	--	
334+12 - 337+80	LEFT	976	976	--	0.61	26.4	--	--	
341+35 - 342+19	LEFT	241	241	--	0.15	6.5	--	--	
358+71 - 360+10	LEFT	75	75	--	0.05	2.0	--	--	
367+00 - 371+06	LEFT	2323	2323	--	1.46	--	--	8.4	
377+92 - 378+30	RIGHT	73	73	--	0.05	--	--	0.3	
377+92 - 378+28	LEFT	62	62	--	0.04	--	--	0.2	
388+88 - 389+33	LEFT	84	84	--	0.05	--	--	0.3	
388+99 - 389+29	RIGHT	61	61	--	0.04	--	--	0.2	
397+88 - 398+32	RIGHT	74	74	--	0.05	--	--	0.3	
397+93 - 398+28	LEFT	64	64	--	0.04	--	--	0.2	
410+45 - 411+79	RIGHT	250	250	--	0.16	--	--	0.9	
411+35 - 412+30	LEFT	18	--	18	0.01	--	0.1	--	
413+22 - 413+92	RIGHT	85	85	--	0.05	--	--	0.3	
413+56 - 415+99	LEFT	545	--	545	0.34	--	9.8	--	
UNDISTRIBUTED	PROJECT	1760	1760	107	1.11	30.0	1.9	2.0	
	TOTALS	20090	18999	1198	12.68	348.9	21.3	21.4	

* 4- INCH THICK TOPSOIL
** 7 POUNDS OF FERTILIZER PER 1000 SF
# 3 POUNDS OF NO. 20 SEED PER 1000 SF
2 POUNDS OF NO. 40 SEED PER 1000 SF

SIGN LIST

SIGN NO.	SIGN CODE	MESSAGE	SIZE	POST LENGTHS 634.0614 POSTS WOOD 4X6-INCH 14-FT EACH	POST LENGTHS 634.0616 POSTS WOOD 4X6-INCH 16-FT EACH	POST LENGTHS 634.0618 POSTS WOOD 4X6-INCH 18-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2602 REMOVING SIGNS TYPE II EA	638.3000 REMOVING SMALL SIGN SUPPORTS EA	638.2102 MOVING SIGNS TYPE II EA	REMARKS
		A, RIGHT	---	---	---	---	---	---	---	---	---	
1-01	J2-3	EAST,23,LEFT ADVANCE	96"X57"	---	---	2	38.00	---	---	---	---	
		SOUTH,49,LEFT ADVANCE	---	---	---	---	---	---	---	---	---	
		WEST,23,RIGHT ADVANCE	---	---	---	---	---	---	---	---	---	
1-02	W3-3	TRAFFIC SIGNAL AHEAD SYMBOL	---	---	---	---	---	---	---	---	1	SIGN BEING MOVED
1-03	W3-3	TRAFFIC SIGNAL AHEAD SYMBOL	---	---	---	---	---	---	---	---	---	SAME SIGN AS ABOVE
1-04	J1-1	JCT 23	24"X39"	---	1	---	6.50	---	---	---	---	
1-05		SOUTH,49,LEFT ADVANCE	---	---	---	---	---	---	1	1	---	
1-06		JCT 23	---	---	---	---	---	---	1	1	---	
1-07		FOOD INFORMATION SIGN	---	---	---	---	---	---	---	---	---	TO REMAIN
1-08	D2-1	BERLIN 8	72"X21"	2	---	---	10.50	---	1	1	---	
1-09	W14-3	NO PASSING ZONE	48"X36"	---	1	---	---	5.56	1	1	---	
1-10	R4-51A	PASSING LANE AHEAD 1/2 MILE	36"X48"	---	1	---	12.00	---	1	1	---	
2-01	R1-1	STOP	30"X30"	1	---	---	5.18	---	1	1	---	
2-02	W14-3	NO PASSING ZONE	48"X36"	---	1	---	---	5.56	1	1	---	
2-03	R1-1	STOP	30"X30"	1	---	---	5.18	---	1	1	---	
2-04	R4-53	DO NOT PASS	54"X54"	---	---	2	20.25	---	1	2	---	
2-05		ADOPT A HIGHWAY	---	---	---	---	---	---	---	---	---	SIGN MOVED FROM 3-03
2-06	R4-3	SLOWER TRAFFIC KEEP RIGHT	24"X30"	1	---	---	5.00	---	1	1	---	
2-07	J1-1	JCT,CTY J	24"X39"	---	1	---	6.50	---	1	1	---	
3-01	R2-1	SPEED LIMIT 55	24"X30"	---	1	---	5.00	---	---	---	---	NEW SIGN
3-02	J4-1	49 SOUTH	24"X36"	---	1	---	6.00	---	1	1	---	
3-03		ADOPT A HIGHWAY	---	---	---	---	---	---	---	---	1	SIGN MOVED TO 2-05
3-04	J13-1	49,LT. RT. ARROW	24"X45"	---	1	---	7.50	---	1	1	---	
3-05	R1-1	STOP	36"X36"	---	1	---	7.46	---	1	1	---	
3-06	M1-5A	CTH J	24"X24"	1	---	---	4.00		---	---	---	NEW SIGN
3-07	J13-1	CTY J,RT. ARROW	24"X45"	---	1	---	7.50	---	1	1	---	
3-08	W4-2R	LANE REDUCTION	36"X36"	---	1	---	---	9.00	1	1	---	
3-09	W2-1	CROSS ROAD SYMBOL	30"X30"	1	---	---	---	6.25	---	---	---	NEW SIGN
3-10	W9-1R	RIGHT LANE ENDS	36"X36"	---	1	---	---	9.00	1	1	---	
3-11	J1-1	JCT,CTY J	24"X39"	---	1	---	6.50	---	1	1	---	
3-12	J13-1	CTY J,LT. ARROW	24"X45"	---	1	---	7.50	---	1	1	---	
3-13	R1-1	STOP	30"X30"	1	---	---	5.18	---	1	1	---	
3-14	J4-1	NORTH,49	24"X36"	---	1	---	6.00	---	1	1	---	
3-15	R2-1	SPEED LIMIT 55	24"X30"	1	---	---	5.00	---	---	---	---	NEW SIGN
3-16	W9-1R	RIGHT LANE ENDS	36"X36"	---	1	---	---	9.00	1	1	---	
3-17	W4-2R	LANE REDUCTION RIGHT	36"X36"	---	1	---	---	9.00	1	1	---	
3-18	R4-53	DO NOT PASS WHEN ONCOMING	54"X54"	---	---	2	20.25	---	1	2	---	
4-01	R4-3	SLOWER TRAFFIC KEEP RIGHT	24"X30"	1	---	---	5.00	---	1	1	---	
4-02	R1-1	STOP	30"X30"	1	---	---	5.18	---	1	1	---	
4-03	R1-1	STOP	30"X30"	1	---	---	5.18	---	1	1	---	
4-04	W14-3	NO PASSING ZONE	48"X36"	---	1	---	---	5.56	1	1	---	
5-01	R4-51A	PASSING LANE AHEAD 1/2 MILE	36"X48"	---	1	---	12.00	---	1	1	---	

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SIGN NO.	SIGN CODE	MESSAGE	SIZE	POST LENGTHS 634.0614 14-FT EACH	POST LENGTHS 634.0616 16-FT EACH	POST LENGTHS 634.0618 18-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2602 REMOVING SIGNS TYPE II EA	638.3000 REMOVING SMALL SIGN SUPPORTS EA	638.2102 MOVING SIGNS TYPE II EA	REMARKS
5-02	W14-3	NO PASSING ZONE	48"X36"	---	1	---	---	5.56	1	1	---	
5-03	W1-7	NIGHT ARROW (DOUBLE)	48"X24"	1	---	---	---	8.00	1	1	---	
5-04	R1-1	STOP	30"X30"	1	---	---	5.18	---	1	1	---	
5-05		ADOPT A HIGHWAY	---	---	---	---	---	---	---	---	---	SIGN TO REMAIN
6-01	R1-1	STOP	30"X30"	1	---	---	5.18	---	1	1	---	
6-02	W14-3	NO PASSING ZONE	48"X36"	---	1	---	---	5.56	1	1	---	
7-01	R1-1	STOP	30"X30"	1	---	---	5.18	---	1	1	---	
7-02	W14-3	NO PASSING ZONE	48"X36"	---	1	---	---	5.56	1	1	---	
8-01	R2-1	SPEED LIMIT 55	24"X30"	1	---	---	5.00	---	---	---	---	NEW SIGN
8-02	J4-1	SOUTH,49	24"X36"	---	1	---	6.00	---	1	1	---	
8-03	J13-2	CTY AA,LEFT ARROW, 49,DOUBLE ARROW	48"X45"	---	1	---	15.00	---	1	1	---	
8-04	R1-1	STOP	36"X36"	---	1	---	7.46	---	1	1	---	
8-05	M1-5A	CTH AA	24"X24"	1	---	---	4.00	---	---	---	---	NEW SIGN
8-06	J13-1	CTY AA,RIGHT ARROW	24"X45"	---	1	---	7.50	---	1	1	---	
8-07	J12-1	CTY AA,ADVANCE RIGHT ARROW	24"X45"	---	1	---	7.50	---	1	1	---	
8-08	J1-1	JCT, CTY AA	24"X39"	---	1	---	6.50	---	1	1	---	
8-09	J13-1	CTY AA,FORWARD,LT ARROW	24"X45"	---	---	1	7.50	---	1	1	---	
8-10	W1-7	NIGHT ARROW (DOUBLE)	48"X24"	---	---	---	---	8.00	1	---	---	SAME POST AS 8-09
8-11	J4-1	49 NORTH	24"X36"	---	1	---	6.00	---	1	1	---	
8-12	R2-1	SPEED LIMIT 55	24"X30"	1	---	---	5.00	---	---	---	---	NEW SIGN
8-13	J12-1	CTY AA,ADVANCE RIGHT ARROW	24"X45"	---	1	---	7.50	---	1	1	---	
8-14	W14-3	NO PASSING ZONE	48"X36"	---	---	---	---	---	1	1	---	REMOVE SIGN
8-15	W14-3	NO PASSING ZONE	48"X36"	---	1	---	---	5.56	---	---	---	NEW SIGN
9-01		ADOPT A HIGHWAY	---	---	---	---	---	---	---	---	---	SIGN TO REMAIN
9-02	R2-1	SPEED LIMIT 55	24"X30"	1	---	---	5.00	---	---	---	---	NEW SIGN
9-03	J4-1	SOUTH,49	24"X36"	---	1	---	6.00	---	---	---	---	NEW SIGN
9-04	W1-7	NIGHT ARROW (DOUBLE)	48"X24"	---	---	1	---	8.00	1	1	---	
9-05	J13-1	CTY AA,FORWARD,LT ARROW	24"X45"	---	---	---	7.50	---	1	---	---	SAME POST AS 9-04
9-06	J1-1	JCT, CTY AA	24"X39"	---	1	---	6.50	---	1	1	---	
9-07	J13-1	CTY AA,RIGHT ARROW	24"X45"	---	1	---	7.50	---	1	1	---	
9-08	R1-1	STOP	36"X36"	---	1	---	7.46	---	1	1	---	
9-09	J13-2	CTH AA, LEFT ARROW,49,DOUBLE ARROW	48"X45"	---	1	---	15.00	---	1	1	---	
9-10	J4-1	NORTH,49	24"X36"	---	1	---	6.00	---	1	1	---	
9-11	R2-1	SPEED LIMIT 55	24"X30"	1	---	---	5.00	---	---	---	---	NEW SIGN
9-12		ADOPT A HIGHWAY	---	---	---	---	---	---	---	---	---	SIGN TO REMAIN
10-01	W14-3	NO PASSING ZONE	48"X36"	---	1	---	---	5.56	1	1	---	
10-02	R2-1	SPEED LIMIT 55	24"X30"	1	---	---	5.00	---	---	---	---	NEW SIGN
10-03	J4-1	SOUTH,49	24"X36"	---	1	---	6.00	---	1	1	---	
10-04	J13-1	49,LT. RT. ARROW	24"X45"	---	1	---	7.50	---	1	1	---	
10-05	R1-1	STOP	36"X36"	---	1	---	7.46	---	1	1	---	
10-06	J13-1	CTY V, LT. RT. ARROW	24"X45"	---	1	---	7.50	---	1	1	---	

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SIGN NO.	SIGN CODE	MESSAGE	SIZE	POST LENGTHS 634.0614 14-FT EACH	POST LENGTHS 634.0616 16-FT EACH	POST LENGTHS 634.0618 18-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2602 REMOVING SIGNS TYPE II EA	638.3000 REMOVING SMALL SIGN SUPPORTS EA	638.2102 MOVING SIGNS TYPE II EA	REMARKS
10-07	J1-1	JCT, CTY V	24"X39"	---	1	---	6.50	---	1	1	---	
10-08	J13-1	CTY V, LT. RT. ARROW	24"X45"	---	1	---	7.50	---	1	1	---	
10-09	R1-1	STOP	36"X36"	---	1	---	7.46	---	1	1	---	
10-10	J13-1	49,LT. RT. ARROW	24"X45"	---	1	---	7.50	---	1	1	---	
11-01	R1-1	STOP	30"X30"	1	---	---	5.18	---	1	1	---	
11-02	W4-2R	LANE REDUCTION RIGHT	36"X36"	---	1	---	---	9.00	1	1	---	
11-03	J1-1	JCT, CTY V	24"X39"	---	1	---	6.50	---	1	1	---	
11-04	W9-1R	RIGHT LANE ENDS	36"X36"	---	1	---	---	9.00	1	1	---	
11-05	W2-1	CROSS ROAD SYMBOL	---	---	---	---	---	---	1	1	---	REMOVE SIGN AND POST
11-06	R1-1	STOP	30"X30"	1	---	---	5.18	---	1	1	---	
11-07	R2-1	SPEED LIMIT 55	24"X30"	1	---	---	5.00	---	---	---	---	NEW SIGN
11-08	R4-3	SLOWER TRAFFIC KEEP RIGHT	24"X30"	1	---	---	5.00	---	1	1	---	
11-09	J4-1	SOUTH,49	24"X36"	---	1	---	6.00	---	1	1	---	
11-10	R3-72	ONCOMING TRAFFIC USES CENTER LANE	30"X36"	---	1	---	7.50	---	1	1	---	
11-11	J4-1	NORTH,49	24"X36"	---	1	---	6.00	---	1	1	---	
11-12	R2-1	SPEED LIMIT 55	24"X30"	1	---	---	5.00	---	---	---	---	NEW SIGN
11-13	R1-1	STOP	---	---	---	---	---	---	---	---	---	TO REMAIN
11-14	J1-1	JCT, CTY A	24"X39"	---	1	---	6.50	---	1	1	---	
12-01	J13-1	49,LT. RT. ARROW	24"X45"	---	1	---	7.50	---	1	1	---	
12-02	R1-1	STOP	36"X36"	---	1	---	7.46	---	1	1	---	
12-03	J13-1	CTY A,RIGHT ARROW	24"X45"	---	1	---	7.50	---	1	1	---	
12-04		SLOWER TRAFFIC KEEP RIGHT	---	---	---	---	---	---	1	1	---	REMOVE ONLY
12-05	J1-1	JCT, CTY A	24"X39"	---	1	---	6.50	---	1	1	---	
12-06		END CITY LIMITS	---	---	---	---	---	---	---	---	---	SIGN TO REMAIN
12-07	W14-3	NO PASSING ZONE	48"X36"	---	1	---	---	5.56	1	1	---	
12-08	R4-51A	PASSING LANE AHEAD 1/2 MILE	36"X48"	---	1	---	12.00	---	---	---	---	SAME POST AS 12-07
12-09	J13-1	CTY A, LEFT ARROW	24"X45"	---	1	---	7.50	---	1	1	---	
12-10	R1-1	STOP	30"X30"	1	---	---	5.18	---	1	1	---	
12-11	J4-1	NORTH,49	24"X36"	---	1	---	6.00	---	1	1	---	
12-12	R2-1	SPEED LIMIT 55	24"X30"	1	---	---	5.00	---	---	---	---	NEW SIGN
12-13	I2-3	BERLIN POP. 5524	---	---	---	---	---	---	---	---	---	SIGN TO REMAIN
12-14	W14-3	NO PASSING ZONE	48"X36"	---	1	---	---	5.56	1	1	---	
13-01		ADOPT A HIGHWAY	---	---	---	---	---	---	---	---	---	SIGN TO REMAIN
13-02	R2-1	SPEEDLIMIT 55	24"X30"	1	---	---	5.00	---	1	1	---	
13-03		TRUCK ROUTES, WINTER PARKING	---	---	---	---	---	---	---	---	---	SIGNS TO REMAIN
13-04	W3-5	SPEED LIMIT 35 AHEAD ARROW	36"X36"	---	1	---	---	9.00	1	1	---	
13-05	R2-1	SPEEDLIMIT 35	24"X30"	1	---	---	5.00	---	1	1	---	
		TOTALS		31	63	8	585.74	148.85	87	87	2	

3

TEMPORARY PORTABLE RUMBLE STRIPS

LOCATION	643.0310.S LANE LS	REMARKS
STH 49	1	378+10, 389+12, 398+12
TOTAL	1	

TRAFFIC CONTROL SIGNS FIXED MESSAGE

SIGN NUMBER	MESSAGE	NUMBER REQUIRED	643.1000 G20-57 TOTAL SF	REMARKS
A	HWY 49 ROAD WORK BEGINS MAY 1	2	64	4' X 8'
			64	

3

MARKING REMOVAL LINE 4-INCH

STATION - STATION	LOCATION	646.9000 LF	REMARKS
376+60 - 379+60	CROSS DRAIN	300	
387+62 - 390+62	CROSS DRAIN	300	
396+62 - 399+62	CROSS DRAIN	300	
TOTAL		900	

LANE SHIFT

STATION	LOCATION	SPV.0060.03 LANE SHIFT EACH	REMARKS
222+24	STH 49	2	
289+55	STH 49	2	
TOTAL		4	

TRAFFIC CONTROL

STATION - STATION	LOCATION	643.5000 EACH	REMARKS
35+00 - 413+15	PROJECT	1	
		1	

TRAFFIC CONTROL

(SEE TRAFFIC CONTROL SCHEDULE SHEETS FOR LOCATION AND QUANTITY BREAKDOWN)

LOCATION	DAYS	DRUMS	STH 49 M1-6 EACH	NORTH M3-1 EACH	SOUTH M3-3 EACH	SHOULDER WORK W21-5 EACH	ROAD WORK AHEAD W20-1 EACH	ROAD WORK 1000 FT W20-1 EACH	ROAD WORK 500 FT W20-1 EACH	ROAD WORK NEXT 8 MILES G20-1 EACH	END ROAD WORK G20-2A EACH	LANE CLOSED WORK R11-2-L EACH	643.0420 BARRICADES TYPE III DAYS	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAYS	643.0900 TRAFFIC CONTROL SIGNS DAYS	643.0300 DRUMS DAYS
35+00 - 225+25 C/L	21	190	-	-	-	-	-	-	-	-	-	-	-	-	-	3990
CTH A SOUTH OF STH 23	168	-	1	1	-	-	1	-	-	-	-	-	-	-	504	-
STH 23 WEST OF 49	168	-	1	1	-	-	1	-	-	-	-	-	-	-	504	-
STH 23/49	168	-	1	1	-	-	1	-	-	-	-	-	-	-	504	-
STH 49	168	-	1	-	1	-	1	2	2	2	19	-	-	-	4704	-
BERLIN ROAD	168	-	-	-	-	-	1	-	-	-	-	-	-	-	168	-
ZOEBEL CO PARK	168	-	-	-	-	-	1	-	-	-	-	-	-	-	168	-
CTH J	168	-	1	1	-	-	1	-	-	-	-	-	-	-	504	-
BROOKLYN JCT ROAD	168	-	-	-	-	-	1	-	-	-	-	-	-	-	168	-
MC CONNEL ROAD	168	-	-	-	-	-	1	-	-	-	-	-	-	-	168	-
BLUFFTON ROAD	168	-	-	-	-	-	1	-	-	-	-	-	-	-	168	-
TOWNLINE ROAD	168	-	-	-	-	-	1	-	-	-	-	-	-	-	168	-
SPRING BROOK ROAD	168	-	-	-	-	-	1	-	-	-	-	-	-	-	168	-
FOREST RIDGE ROAD	168	-	-	-	-	-	1	-	-	-	-	-	-	-	168	-
CTH AA WEST	168	-	-	-	-	-	1	-	-	-	-	-	-	-	168	-
CTH AA EAST	168	-	-	-	-	-	1	-	-	-	-	-	-	-	168	-
CTH V EAST	168	-	1	1	-	-	1	-	-	-	-	-	-	-	504	-
CTH V WEST	168	-	1	1	-	-	1	-	-	-	-	-	-	-	504	-
OLD HWY 49 SOUTH	168	-	-	-	-	-	1	-	-	-	-	-	-	-	168	-
OLD HWY 49 NORTH	168	-	-	-	-	-	1	-	-	-	-	-	-	-	168	-
CTH A WEST	168	-	1	1	-	-	1	-	-	-	-	-	-	-	504	-
CTH A EAST	168	-	1	1	-	-	1	-	-	-	-	-	-	-	504	-
CLIMBING LANES	21	213	-	-	-	-	-	-	-	-	-	19	19	38	399	4473
BEAM GUARD LOCATIONS	14	230	-	-	-	-	-	-	-	-	-	-	-	-	-	3220
PROJECT 35+00-415+13	168	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STA 67+50 NB	168	-	-	-	-	1	-	-	-	-	-	-	-	-	168	-
STA 137+25 SB	168	-	-	-	-	1	-	-	-	-	-	-	-	-	168	-
STA 381+00 SB	168	-	-	-	-	1	-	-	-	-	-	-	-	-	168	-
222+24	14	42	-	-	-	-	2	-	-	-	-	-	-	-	28	588
289+55	14	42	-	-	-	-	2	-	-	-	-	-	-	-	28	588
378+10	14	36	-	-	-	-	2	-	-	-	-	-	-	8	28	504
389+12	14	36	-	-	-	-	2	-	-	-	-	-	-	8	28	504
398+12	14	36	-	-	-	-	2	-	-	-	-	-	-	8	28	504
STH 91	42	-	1	-	1	-	-	-	-	-	-	-	-	-	84	-
TOTALS		635	10	8	2	3	31	2	2	2	19	19	399	798	11879	14371

3

TRAFFIC CONTROL

(SEE TRAFFIC CONTROL SCHEDULE SHEETS FOR LOCATION AND QUANTITY BREAKDOWN)

LOCATION	DAYS	LOOSE GRAVEL W8-7 EACH	DIP W8-2 EACH	AHEAD STRIPS RUMBLE W21-65 EACH	MAX 11' WIIDTH W12-53 EACH	ONE LANE ROAD AHEAD W20-4-A EACH	SIGNAL SYMBOL W03-3 EACH	STOP HERE ON RED R10-6 EACH	HWY 49 ROAD WORK BEGINS G20-57 EACH	00 MILES AHEAD W057-52 EACH	643.0900 TRAFFIC CONTROL SIGNS DAYS
222+24	14	2	2	-	-	-	-	-	-	-	56
289+55	14	2	2	-	-	-	-	-	-	-	56
378+10	14	-	1	2	2	2	2	2	-	-	154
389+12	14	-	1	2	2	2	2	2	-	-	154
398+12	14	-	1	2	2	2	2	2	-	-	154
35+00-415+13	14	-	-	-	-	-	-	-	2	-	28
STH 23	42	-	-	-	1	-	-	-	-	1	84
STH 23/49	42	-	-	-	1	-	-	-	-	1	84
CTH J	42	-	-	-	1	-	-	-	-	1	84
CTH V WEST	42	-	-	-	1	-	-	-	-	1	84
CTH V EAST	42	-	-	-	1	-	-	-	-	1	84
CTH A WEST	42	-	-	-	1	-	-	-	-	1	84
CTH A EAST	42	-	-	-	1	-	-	-	-	1	84
STH 49	42	-	-	-	1	-	-	-	-	1	84
STH 91	42	-	-	-	1	-	-	-	-	1	84
TOTALS		4	7	6	15	6	6	6	2	9	1358

3

3

CONSTRUCTION STAKING

STATION - STATION	650.4500 SUBGRADE LF	650.5000 BASE LF	650.5500 CURB & GUTTER LF	650.6000 PIPE CULVERTS EACH	650.8000 RESURFACING REFERENCE LF	650.9920 SLOPE STAKES LF
35+00 - 415+13	--	--	--	--	38013	--
222+24	--	--	--	1	--	--
286+92	--	--	--	1	--	--
289+55	--	--	--	1	--	--
333+17	--	--	--	1	--	--
358+74	--	--	--	1	--	--
378+10	--	--	--	1	--	--
389+12	--	--	--	1	--	--
398+12	--	--	--	1	--	--
8N+50	--	--	--	1	--	--
16K+04	--	--	--	1	--	--
39+00 - 51+82	--	--	--	--	--	1282
107+00 - 111+00	--	--	--	--	--	400
121+00 - 125+00	--	--	--	--	--	400
137+94 - 143+49	--	--	--	--	--	555
195+29 - 197+47	--	--	--	--	--	218
206+57 - 208+71	--	--	--	--	--	214
219+00 - 225+00	--	--	--	--	--	600
228+43 - 233+45	--	--	--	--	--	502
281+59 - 283+44	--	--	--	--	--	185
286+50 - 292+50	--	--	--	--	--	600
297+78 - 299+98	--	--	--	--	--	220
303+42 - 305+61	--	--	--	--	--	219
327+00 - 330+97	--	--	--	--	--	397
333+17 - 337+50	--	--	--	--	--	433
341+41 - 342+25	--	--	--	--	--	84
359+00 - 360+04	--	--	--	--	--	102
365+85 - 371+00	--	--	--	--	--	515
374+00 - 415+13	--	--	--	--	--	4113
16K+00 - 17K+00	--	--	--	--	--	100
8N+00 - 9N+00	--	--	--	--	--	100
40+36 - 42+00	164	164	--	--	--	--
43+90 - 48+68	478	478	--	--	--	--
49+97 - 51+72	175	175	--	--	--	--
138+23 - 140+33	160	160	--	--	--	--
141+89 - 143+49	160	160	--	--	--	--
196+00 - 208+00	1200	1200	--	--	--	--
228+43 - 229+78	135	135	--	--	--	--
231+50 - 283+44	5194	5194	--	--	--	--
287+63 - 288+50	87	87	--	--	--	--
299+00 - 304+50	550	550	--	--	--	--
327+00 - 330+97	397	397	--	--	--	--
334+67 - 337+50	283	283	--	--	--	--
370+50 - 367+75	275	275	--	--	--	--
413+68 - 414+00	32	32	--	--	--	--
39+41 - 41+27	186	186	--	--	--	--
43+33 - 48+79	546	546	--	--	--	--
50+22 - 51+82	160	160	--	--	--	--
109+00 - 139+28	3028	3028	--	--	--	--
141+46 - 142+81	135	135	--	--	--	--
196+00 - 207+50	1150	1150	--	--	--	--
228+88 - 230+28	140	140	--	--	--	--
231+84 - 233+45	161	161	--	--	--	--
298+50 - 299+63	113	113	--	--	--	--
303+56 - 305+41	185	185	--	--	--	--
329+00 - 330+62	162	162	--	--	--	--
410+50 - 411+72	122	122	--	--	--	--
14K+00 - 16K+66	--	--	96	--	--	--
9N+10 - 9N+65	--	--	91	--	--	--
TOTALS	15378	15378	187	10	38013	11239

MARKING LINE

STATION - STATION	LOCATION	646.1020 MARKING LINE EPOXY 4-INCH WHITE LF	646.1020 MARKING LINE EPOXY 4-INCH DASHED YELLOW LF	646.1020 MARKING LINE EPOXY 4-INCH DASHED SOLID YELLOW LF	646.1020 MARKING LINE EPOXY 4-INCH SOLID-SOLID YELLOW LF	646.1040 MARKING LINE GROOVED WET REF EPOXY 4-INCH WHITE LF	646.1040 MARKING LINE GROOVED WET REF EPOXY 4-INCH SKIPS WHITE LF	646.3040 MARKING LINE GROOVED WET REF EPOXY 8-INCH WHITE LF	646.4520 MARKING LINE SAME DAY EPOXY YELLOW DASHED 4-INCH LF	646.4520 MARKING LINE SAME DAY EPOXY YELLOW DASHED SOLID 4-INCH LF	646.4520 MARKING LINE SAME DAY EPOXY YELLOW SOLID-SOLID 4-INCH LF	646.6120 MARKING STOP LINE EPOXY 18-INCH WHITE LF	REMARKS
35+00 - 225+25	LT - RT	--	--	--	--	35855	--	--	--	--	--	--	PULVERIZE EDGE LINE
225+25 - 415+13	LT - RT	--	--	--	--	36166	--	--	--	--	--	--	CIR EDGE LINE
35+00 - 39+75	C/L	--	--	594	--	--	--	--	--	594	--	--	
39+75 - 74+07	C/L	--	858	--	--	--	--	--	858	--	--	--	
74+07 - 85+16	C/L	--	--	1386	--	--	--	--	--	1386	--	--	
79+24 - 86+24	RT	--	--	--	--	--	233	--	--	--	--	--	3' X 9' SKIPS
81+03 - 82+53	LT	--	--	--	--	--	50	--	--	--	--	--	3' X 9' SKIPS
85+16 - 111+56	C/L	--	--	--	5280	--	--	--	--	--	5280	--	
86+24 - 107+00	RT	--	--	--	--	--	519	--	--	--	--	--	12.5' X 50' SKIPS
89+43 - 91+93	RT	--	--	--	--	--	83	--	--	--	--	--	3' X 9' SKIPS
90+20 - 121+00	LT	--	--	--	--	--	770	--	--	--	--	--	12.5' X 50' SKIPS
93+45 - 95+95	LT	--	--	--	--	--	83	--	--	--	--	--	3' X 9' SKIPS
111+56 - 131+62	C/L	--	--	2508	--	--	--	--	--	2508	--	--	
116+95 - 118+45	RT	--	--	--	--	--	50	--	--	--	--	--	3' X 9' SKIPS
121+00 - 128+00	LT	--	--	--	--	--	234	--	--	--	--	--	3' X 9' SKIPS
131+62 - 168+58	C/L	--	924	--	--	--	--	--	924	--	--	--	
132+85 - 134+75	LT	--	--	--	--	--	64	--	--	--	--	--	3' X 9' SKIPS
168+58 - 179+67	C/L	--	--	1386	--	--	--	--	--	1386	--	--	
172+45 - 173+65	LT	--	--	--	--	--	40	--	--	--	--	--	3' X 9' SKIPS
179+67 - 187+59	C/L	--	--	--	1584	--	--	--	--	--	1584	--	
187+59 - 198+15	C/L	--	--	1320	--	--	--	--	--	1320	--	--	
198+15 - 225+25	C/L	--	678	--	--	--	--	--	678	--	--	--	
205+49 - 206+69	LT	--	--	--	--	--	40	--	--	--	--	--	3' X 9' SKIPS
225+25 - 243+03	C/L	--	445	--	--	--	--	--	445	--	--	--	
225+29 - 226+79	RT	--	--	--	--	--	50	--	--	--	--	--	3' X 9' SKIPS
243+03 - 254+64	C/L	--	--	1451	--	--	--	--	--	1451	--	--	
254+64 - 312+72	C/L	--	--	--	11616	--	--	--	--	--	11616	--	
312+72 - 323+28	C/L	--	--	1320	--	--	--	--	--	1320	--	--	
323+28 - 360+77	C/L	--	937	--	--	--	--	--	937	--	--	--	
330+25 - 366+35	LT	--	--	--	--	--	903	--	--	--	--	--	12.5' X 50' SKIPS
343+40 - 344+90	LT	--	--	--	--	--	50	--	--	--	--	--	3' X 9' SKIPS
358+70 - 360+20	LT	--	--	--	--	--	50	--	--	--	--	--	3' X 9' SKIPS
360+77 - 371+86	C/L	--	--	1386	--	--	--	--	--	1386	--	--	
364+00 - 367+38	RT	--	--	--	--	--	85	--	--	--	--	--	12.5' X 50' SKIPS
364+80 - 366+30	RT	--	--	--	--	--	50	--	--	--	--	--	3' X 9' SKIPS
366+35 - 373+35	LT	--	--	--	--	--	233	--	--	--	--	--	3' X 9' SKIPS
371+86 - 377+66	C/L	--	--	--	1160	--	--	--	--	--	1160	--	
377+66 - 388+75	C/L	--	--	1386	--	--	--	--	--	1386	--	--	

CONTINUED ON NEXT PAGE

MARKING LINE

STATION - STATION	LOCATION	646.1020 MARKING LINE EPOXY 4-INCH WHITE LF	646.1020 MARKING LINE EPOXY 4-INCH DASHED YELLOW LF	646.1020 MARKING LINE EPOXY 4-INCH DASHED SOLID YELLOW LF	646.1020 MARKING LINE EPOXY 4-INCH SOLID-SOLID YELLOW LF	646.1040 MARKING LINE GROOVED WET REF EPOXY 4-INCH WHITE LF	646.1040 MARKING LINE GROOVED WET REF EPOXY 4-INCH SKIPS WHITE LF	646.3040 MARKING LINE GROOVED WET REF EPOXY 8-INCH WHITE LF	646.4520 MARKING LINE SAME DAY EPOXY YELLOW DASHED 4-INCH LF	646.4520 MARKING LINE SAME DAY EPOXY YELLOW DASHED SOLID 4-INCH LF	646.4520 MARKING LINE SAME DAY EPOXY YELLOW SOLID-SOLID 4-INCH LF	646.6120 MARKING STOP LINE EPOXY 18-INCH WHITE LF	REMARKS
CONTINUED FROM PREVIOUS PAGE													
388+75 - 399+84	C/L	--	277	--	--	--	--	--	277	--	--	--	
399+84 - 410+93	C/L	--	--	1386	--	--	--	--	--	1386	--	--	
410+93 - 415+13	C/L	--	--	--	840	--	--	--	--	--	840	--	
65+70 - 66+90	LT	--	--	--	--	--	--	120	--	--	--	--	TURN LANE
254+70 - 256+70	LT	--	--	--	--	--	--	200	--	--	--	--	TURN LANE
277+98 - 279+98	RT	--	--	--	--	--	--	200	--	--	--	--	TURN LANE
331+12 - 333+12	RT	--	--	--	--	--	--	200	--	--	--	--	TURN LANE
334+67 - 336+67	LT	--	--	--	--	--	--	200	--	--	--	--	TURN LANE
340+90 - 341+90	RT	--	--	--	--	--	--	100	--	--	--	--	TURN LANE
367+60 - 369+60	LT	--	--	--	--	--	--	200	--	--	--	--	TURN LANE
369+59 - 371+09	LT	--	--	--	--	--	--	50	--	--	--	--	TURN LANE 3'X9' SKIPS
9C+62	RT	--	--	--	--	--	--	--	--	--	--	27	CTH J
8C+18 - 9C+62	C/L	--	--	--	288	--	--	--	--	--	288	--	CTH J
8C+18 - 9C+06	LT	88	--	--	--	--	--	--	--	--	--	--	CTH J
8C+18 - 9C+27	RT	109	--	--	--	--	--	--	--	--	--	--	CTH J
10F+45	LT	--	--	--	--	--	--	--	--	--	--	18	TOWN LINE
10J+23 - 11J+28	C/L	--	--	--	210	--	--	--	--	--	210	--	CTH AA EAST
10J+60 - 11J+28	LT	68	--	--	--	--	--	--	--	--	--	--	CTH AA EAST
10J+81 - 11J+28	RT	47	--	--	--	--	--	--	--	--	--	--	CTH AA EAST
8"I"+64 - 9"I"+77	C/L	--	--	--	226	--	--	--	--	--	226	--	CTH AA WEST
8"I"+64 - 9"I"+37	RT	73	--	--	--	--	--	--	--	--	--	--	CTH AA WEST
8"I"+64 - 9"I"+21	LT	57	--	--	--	--	--	--	--	--	--	--	CTH AA WEST
13K+26 - 14K+67	C/L	--	--	--	282	--	--	--	--	--	282	--	CTH V WEST
13K+26 - 14K+01	LT	75	--	--	--	--	--	--	--	--	--	--	CTH V WEST
13K+26 - 14K+04	RT	78	--	--	--	--	--	--	--	--	--	--	CTH V WEST
15K+22 - 16K+56	C/L	--	--	--	268	--	--	--	--	--	268	--	CTH V EAST
15K+88 - 16K+56	RT	68	--	--	--	--	--	--	--	--	--	--	CTH V EAST
15K+86 - 15K+56	LT	70	--	--	--	--	--	--	--	--	--	--	CTH V EAST
8N+32 - 9N+66	C/L	---	--	--	268	--	--	--	--	--	268	--	CTH A WEST
8N+32 - 9N+15	RT	83	--	--	--	--	--	--	--	--	--	--	CTH A WEST
8N+32 - 9N+12	LT	80	--	--	--	--	--	--	--	--	--	--	CTH A WEST
SUB TOTALS		896	4119	14123	22022	72021	3587	1270	4119	14123	22022	45	
PROJECT TOTAL		41160				75608		1270	40264			45	

TEMPORARY MARKING LINE

STATION - STATION	LOCATION	649.0105 TEMPORARY MARKING LINE PAINT WHITE 4-INCH LF	649.0105 TEMPORARY MARKING LINE PAINT YELLOW DASHED 4-INCH LF	649.0105 TEMPORARY MARKING LINE PAINT YELLOW DASH-SOLID 4-INCH LF	649.0105 TEMPORARY MARKING LINE PAINT YELLOW SOLID-SOLID 4-INCH LF	649.0120 TEMPORARY MARKING LINE EPOXY WHITE 4-INCH LF	649.0220 TEMPORARY MARKING LINE EPOXY WHITE 8-INCH LF	649.0850 TEMPORARY MARKING STOP LINE REMOVABLE TAPE WHITE 18-INCH LF	REMARKS
35+00 - 39+75	C/L	---	---	513	---	--	--	--	AFTER MILLING
35+00 - 39+75	C/L	--	--	513	---	--	--	--	AFTER PAVING BINDER
39+75 - 74+07	C/L	--	275		---	--	--	--	AFTER MILLING
39+75 - 74+07	C/L	--	275		---	--	--	--	AFTER PAVING BINDER
74+07 - 85+16	C/L	--	--	1198	---	--	--	--	AFTER MILLING
74+07 - 85+16	C/L	--	--	1198	---	--	--	--	AFTER PAVING BINDER
85+16 - 111+56	C/L	--	--	--	5280	--	--	--	AFTER MILLING
85+16 - 111+56	C/L	--	--	--	5280	--	--	--	AFTER PAVING BINDER
111+56 - 131+62	C/L	--	--	2166	--	--	--	--	AFTER MILLING
111+56 - 131+62	C/L	--	--	2166	--	--	--	--	AFTER PAVING BINDER
131+62 - 168+58	C/L	--	296	--	--	--	--	--	AFTER MILLING
131+62 - 168+58	C/L	--	296	--	--	--	--	--	AFTER PAVING BINDER
168+58 - 179+67	C/L	--	--	1198	--	--	--	--	AFTER MILLING
168+58 - 179+67	C/L	--	--	1198	--	--	--	--	AFTER PAVING BINDER
179+67 - 187+59	C/L	--	--	--	1584	--	--	--	AFTER MILLING
179+67 - 187+59	C/L	--	--	--	1584	--	--	--	AFTER PAVING BINDER
187+59 - 198+15	C/L	--	--	1140	--	--	--	--	AFTER MILLING
187+59 - 198+15	C/L	--	--	1140	--	--	--	--	AFTER PAVING BINDER
198+15 - 225+25	C/L	--	217	--	--	--	--	--	AFTER MILLING
198+15 - 225+25	C/L	--	217	--	--	--	--	--	AFTER PAVING BINDER
225+25 - 243+03	C/L	--	142	--	--	--	--	--	AFTER MILLING
225+25 - 243+03	C/L	--	142	--	--	--	--	--	AFTER CIR
225+25 - 243+03	C/L	--	142	--	--	--	--	--	AFTER PAVING BINDER
243+03 - 254+64	C/L	--	--	1254	--	--	--	--	AFTER MILLING
243+03 - 254+64	C/L	--	--	1254	--	--	--	--	AFTER CIR
243+03 - 254+64	C/L	--	--	1254	--	--	--	--	AFTER PAVING BINDER
254+64 - 312+72	C/L	--	--	--	11616	--	--	--	AFTER MILLING
254+64 - 312+72	C/L	--	--	--	11616	--	--	--	AFTER CIR
254+64 - 312+72	C/L	--	--	--	11616	--	--	--	AFTER PAVING BINDER
312+72 - 323+28	C/L	--	--	1140	--	--	--	--	AFTER MILLING
312+72 - 323+28	C/L	--	--	1140	--	--	--	--	AFTER CIR
312+72 - 323+28	C/L	--	--	1140	--	--	--	--	AFTER PAVING BINDER
323+28 - 360+77	C/L	300	--	--	--	--	--	--	AFTER MILLING
323+28 - 360+77	C/L	300	--	--	--	--	--	--	AFTER CIR
323+28 - 360+77	C/L	300	--	--	--	--	--	--	AFTER PAVING BINDER

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TEMPORARY MARKING LINE

STATION - STATION	LOCATION	649.0105 TEMPORARY MARKING LINE PAINT WHITE 4-INCH LF	649.0105 TEMPORARY MARKING LINE PAINT YELLOW DASHED 4-INCH LF	649.0105 TEMPORARY MARKING LINE PAINT YELLOW DASH-SOLID 4-INCH LF	649.0105 TEMPORARY MARKING LINE PAINT YELLOW SOLID-SOLID 4-INCH LF	649.0120 TEMPORARY MARKING LINE EPOXY WHITE 4-INCH LF	649.0220 TEMPORARY MARKING LINE EPOXY WHITE 8-INCH LF	649.0850 TEMPORARY MARKING STOP LINE REMOVABLE TAPE WHITE 18-INCH LF	REMARKS
CONTUNED FROM PREVIOUS PAGE									
360+77 - 371+86	C/L	--	--	1198	--	--	--	--	AFTER MILLING
360+77 - 371+86	C/L	--	--	1198	--	--	--	--	AFTER CIR
360+77 - 371+86	C/L	--	--	1198	--	--	--	--	AFTER PAVING BINDER
371+86 - 377+66	C/L	--	--	--	1160	--	--	--	AFTER MILLING
371+86 - 377+66	C/L	--	--	--	1160	--	--	--	AFTER CIR
371+86 - 377+66	C/L	--	--	--	1160	--	--	--	AFTER PAVING BINDER
377+66 - 388+75	C/L	--	--	1198	--	--	--	--	AFTER MILLING
377+66 - 388+75	C/L	--	--	1198	--	--	--	--	AFTER CIR
377+66 - 388+75	C/L	--	--	1198	--	--	--	--	AFTER PAVING BINDER
388+75 - 399+84	C/L	--	89	--	--	--	--	--	AFTER MILLING
388+75 - 399+84	C/L	--	89	--	--	--	--	--	AFTER CIR
388+75 - 399+84	C/L	--	89	--	--	--	--	--	AFTER PAVING BINDER
399+84 - 410+93	C/L	--	--	1198	--	--	--	--	AFTER MILLING
399+84 - 410+93	C/L	--	--	1198	--	--	--	--	AFTER CIR
399+84 - 410+93	C/L	--	--	1198	--	--	--	--	AFTER PAVING BINDER
410+93 - 415+13	C/L	--	--	--	840	--	--	--	AFTER MILLING
410+93 - 415+13	C/L	--	--	--	840	--	--	--	AFTER CIR
410+93 - 415+13	C/L	--	--	--	840	--	--	--	AFTER PAVING BINDER
65+70 - 66+90	LT	--	--	--	--	--	120	--	TURN LANE AFTER FINAL SURFACE
254+70 - 256+70	LT	--	--	--	--	--	200	--	TURN LANE AFTER FINAL SURFACE
277+98 - 279+98	RT	--	--	--	--	--	200	--	TURN LANE AFTER FINAL SURFACE
331+12 - 333+12	RT	--	--	--	--	--	200	--	TURN LANE AFTER FINAL SURFACE
334+67 - 336+67	LT	--	--	--	--	--	200	--	TURN LANE AFTER FINAL SURFACE
340+90 - 341+90	RT	--	--	--	--	--	100	--	TURN LANE AFTER FINAL SURFACE
367+60 - 369+60	LT	--	--	--	--	--	200	--	TURN LANE AFTER FINAL SURFACE
369+59 - 371+09	LT	--	--	--	--	--	50	--	TURN LANE SKIPS 3'X9' SKIPS
79+24 - 86+24	RT	233	--	--	--	--	--	--	TAPER AFTER MILLING 3'X9' SKIPS
79+24 - 86+24	RT	233	--	--	--	--	--	--	TAPER AFTER PAVING BINDER 3'X9' SKIPS
79+24 - 86+24	RT	---	--	--	--	233	--	--	TAPER AFTER PAVING FINAL SURFACE 3'X9' SKIPS
81+03 - 82+53	LT	50	--	--	--	--	--	--	TAPER AFTER MILLING 3'X9' SKIPS
81+03 - 82+53	LT	50	--	--	--	--	--	--	TAPER AFTER PAVING BINDER 3'X9' SKIPS
86+24 - 107+00	RT	166	--	--	--	--	--	--	CLIMBING LANE AFTER MILLING 4'X50' SKIPS
86+24 - 107+00	RT	166	--	--	--	--	--	--	CLIMBING LANE AFTER BINDER 4'X50' SKIPS
86+24 - 107+00	RT	---	--	--	--	166	--	--	CLIMBING LANE AFTER FINAL SURFACE 4'X50' SKIPS
89+24 - 91+74	RT	83	--	--	--	--	--	--	CLIMBING LANE AFTER MILLING RT TURN TAPER 3'X9' SKIPS
89+24 - 91+74	RT	83	--	--	--	--	--	--	CLIMBING LANE AFTER MILLING RT TURN TAPER 3'X9' SKIPS
90+20 - 121+00	LT	246	--	--	--	--	--	--	CLIMBING LANE AFTER MILLING 4'X50' SKIPS
90+20 - 121+00	LT	246	--	--	--	--	--	--	CLIMBING LANE AFTER BINDER 4'X50' SKIPS
90+20 - 121+00	LT	---	--	--	--	246	--	--	CLIMBING LANE AFTER FINAL SURFACE 4'X50' SKIPS
121+00 - 128+00	LT	234	--	--	--	--	--	--	CLIMBING LANE AFTER MILLING 3'X9' SKIPS

CONTINUED ON NEXT PAGE

TEMPORARY MARKING LINE

STATION - STATION	LOCATION	649.0105 TEMPORARY MARKING LINE PAINT WHITE 4-INCH LF	649.0105 TEMPORARY MARKING LINE PAINT YELLOW DASHED 4-INCH LF	649.0105 TEMPORARY MARKING LINE PAINT YELLOW DASH-SOLID 4-INCH LF	649.0105 TEMPORARY MARKING LINE PAINT YELLOW SOLID-SOLID 4-INCH LF	649.0120 TEMPORARY MARKING LINE EPOXY WHITE 4-INCH LF	649.0220 TEMPORARY MARKING LINE EPOXY WHITE 8-INCH LF	649.0850 TEMPORARY MARKING STOP LINE REMOVABLE TAPE WHITE 18-INCH LF	REMARKS
CONTUNED FROM PREVIOUS PAGE									
121+00 - 128+00	LT	234	--	--	--	--	--	--	CLIMBING LANE AFTER BINDER 3'X9' SKIPS
121+00 - 128+00	LT	--	--	--	--	234	--	--	CLIMBING LANE AFTER FINAL SURFACE 3'X9' SKIPS
330+25 - 366+35	LT	288	--	--	--	--	--	--	CLIMBING LANE AFTER MILLING 4'X50' SKIPS
330+25 - 366+35	LT	288	--	--	--	--	--	--	CLIMBING LANE AFTER CIR 4'X50' SKIPS
330+25 - 366+35	LT	288	--	--	--	--	--	--	CLIMBING LANE AFTER PAVING BINDER 4'X50' SKIPS
330+25 - 366+35	LT	--	--	--	--	288	--	--	CLIMBING LANE AFTER PAVING FINAL SURFACE 4'X50' SKIPS
366+35 - 373+35	LT	233	--	--	--	--	--	--	CLIMBING LANE AFTER MILLING 3'X9' SKIPS
366+35 - 373+35	LT	233	--	--	--	--	--	--	CLIMBING LANE AFTER CIR 3'X9' SKIPS
366+35 - 373+35	LT	233	--	--	--	--	--	--	CLIMBING LANE AFTER PAVING BINDER 3'X9' SKIPS
366+35 - 373+35	LT	--	--	--	--	233	--	--	CLIMBING LANE AFTER PAVING FINAL SURFACE 3'X9' SKIPS
364+00 - 367+38	RT	27	--	--	--	--	--	--	BYPASS LANE AFTER MILLING 4'X50' SKIPS
364+00 - 367+38	RT	27	--	--	--	--	--	--	BYPASS LANE AFTER CIR 4'X50' SKIPS
364+00 - 367+38	RT	27	--	--	--	--	--	--	BYPASS LANE AFTER PAVING BINDER 4'X50' SKIPS
364+00 - 367+38	RT	--	--	--	--	27	--	--	BYPASS LANE AFTER PAVING FINAL SURFACE 4'X50' SKIPS
376+37	RT	--	--	--	--	--	--	12	STOP LINE TEMP SIGNAL CULVERT WORK
379+83	LT	--	--	--	--	--	--	12	STOP LINE TEMP SIGNAL CULVERT WORK
387+39	RT	--	--	--	--	--	--	12	STOP LINE TEMP SIGNAL CULVERT WORK
390+85	LT	--	--	--	--	--	--	12	STOP LINE TEMP SIGNAL CULVERT WORK
396+39	RT	--	--	--	--	--	--	12	STOP LINE TEMP SIGNAL CULVERT WORK
399+85	LT	--	--	--	--	--	--	12	STOP LINE TEMP SIGNAL CULVERT WORK
8C+18 - 9C+62	C/L	--	--	--	288	--	--	--	AFTER MILLING
10J+23 - 11J+28	C/L	--	--	--	210	--	--	--	AFTER MILLING
8"I"+64 - 9"I"+77	C/L	--	--	--	226	--	--	--	AFTER MILLING
13K+26 - 14K+67	C/L	--	--	--	282	--	--	--	AFTER MILLING
15K+22 - 16K+56	C/L	--	--	--	268	--	--	--	AFTER MILLING
8N+32 - 9N+66	C/L	--	--	--	268	--	--	--	AFTER MILLING
	SUB TOTALS	4568	2269	30394	56118	1427	1270	72	
	PROJECT TOTAL			93349		1427	1270	72	

SAWING ASPHALT

STATION - STATION	LOCATION	690.0150 LF	REMARKS
35+00	RT-LT	30	BEGINNING OF PROJECT
358+50	70' RT	12	PE
254+71 - 258+31	LT	350	
376+48 - 279+98	RT	350	
328+32 - 333+12	RT	480	
334+77 - 338+17	LT	350	
367+61 - 371+59	LT	399	
221+69	RT-LT	30	
222+79	RT-LT	30	
289+00	RT-LT	44	CATTLE PASS
290+10	RT-LT	44	CATTLE PASS
323+25	LT	3	CLIMBING LANE TAPER CIR SECTION
323+25 - 331+75	LT	850	CLIMBING LANE TAPER CIR SECTION
331+75	LT	21	CLIMBING LANE TAPER CIR SECTION
377+55	RT-LT	30	
378+65	RT-LT	30	
388+57	RT-LT	30	
389+67	RT-LT	30	
398+57	RT-LT	30	
399+67	RT-LT	30	
415+13	RT-LT	44	END OF PROJECT
	TOTAL	3217	

LOCATING NO-PASSING ZONES

STATION - STATION	648.0100 MILES
STA 35+00 - 415+13	7.38
TOTAL	7.38

TEMPORARY TRAFFIC SIGNAL FOR BRIDGES (STRUCTURE)

LOCATION	661.0100 TEMPORARY TRAFFIC SIGNAL LS	REMARKS
STH 49	1	378+10, 389+12, 398+12
TOTALS	1	

CONSTRUCTION STAKING SUPPLEMENTAL CONTROL 6210-00-72

STATION - STATION	650.9910 PROJECT LS	REMARKS
35+00 - 415+13	1	
TOTALS	1	

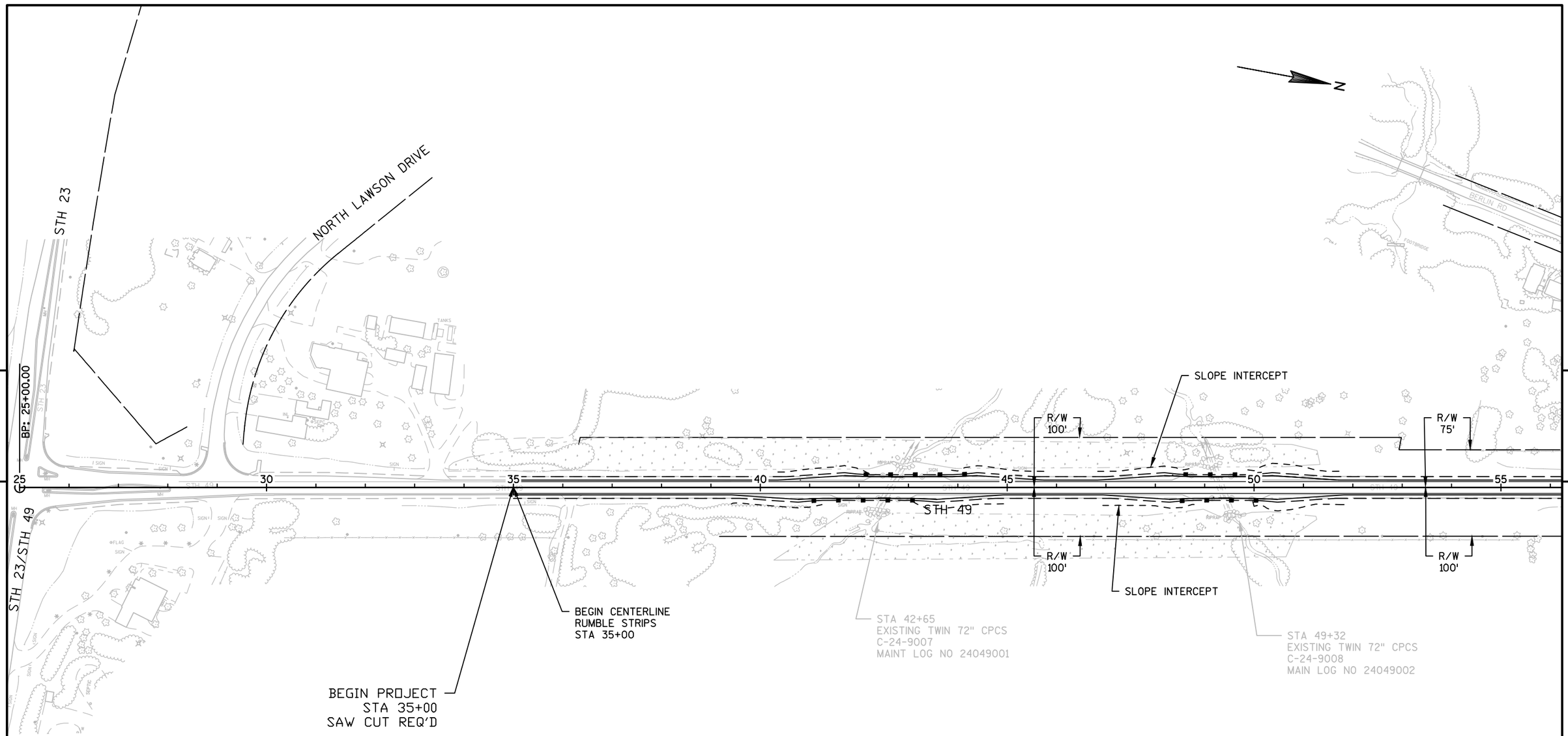
COLD IN-PLACE RECYCLING (CIR) ASPHALT PAVEMENT

STATION		STATION	LOCATION	SPV.0180.01 SY	SPV.0195.01 ASPHALT STABILIZING AGENT TONS	REMARKS
225+25	-	229+30	RT NB	540	4	12' WIDE
229+30	-	276+48	RT NB	7,863	54	15' WIDE
276+48	-	282+52	RT NB	805	6	12' WIDE
282+52	-	328+47	RT NB	7,658	53	15' WIDE
328+47	-	335+41	RT NB	925	6	12' WIDE
335+41	-	339+23	RT NB	679	5	16' WIDE
339+23	-	344+50	RT NB	703	5	12' WIDE
344+50	-	359+32	RT NB	2,635	18	16' WIDE
359+32	-	371+24	RT NB	1,589	11	12' WIDE
371+24	-	405+60	RT NB	6,108	42	17' WIDE
405+60	-	415+13	RT NB	1,271	9	12' WIDE
415+13	-	407+47	LT SB	1,021	7	12' WIDE
407+47	-	373+40	LT SB	6,057	44	17' WIDE
373+40	-	371+24	LT SB	384	5	17' WIDE
371+24	-	366+36	LT SB	651	4	12' WIDE
366+36	-	365+37	LT SB	132	1	12' WIDE INSIDE LANE
366+36	-	365+37	LT SB	132	1	12' WIDE OUTSIDE LANE
366+35	-	323+25	LT SB	5,747	40	12' WIDE CENTER LANE
365+37	-	360+86	LT SB	601	4	12' WIDE INSIDE LANE
365+37	-	360+86	LT SB	802	6	16' WIDE OUTSIDE LANE
360+86	-	356+68	LT SB	557	4	12' WIDE INSIDE LANE
360+86	-	356+68	LT SB	557	4	12' WIDE OUTSIDE LANE
356+68	-	344+85	LT SB	1,577	11	12' WIDE INSIDE LANE
356+68	-	344+85	LT SB	2,103	15	16' WIDE OUTSIDE LANE
344+85	-	341+41	LT SB	459	3	12' WIDE INSIDE LANE
344+85	-	341+41	LT SB	459	3	12' WIDE OUTSIDE LANE
341+41	-	338+17	LT SB	432	3	12' WIDE INSIDE LANE
341+41	-	338+17	LT SB	576	4	16' WIDE OUTSIDE LANE
338+17	-	331+75	LT SB	856	6	12' WIDE INSIDE LANE
338+17	-	331+75	LT SB	856	6	12' WIDE OUTSIDE LANE
331+75	-	323+25	LT SB	1,133	8	12' WIDE
323+25	-	258+31	LT SB	10,823	75	15' WIDE
258+31	-	252+29	LT SB	803	6	12' WIDE
252+29	-	225+25	LT SB	4,507	31	15' WIDE
			TOTAL	72,001	503	

BASE REPAIR FOR CIR PAVEMENT

STATION		STATION	LOCATION	SPV.0035.01 CY	REMARKS
225+25	-	415+13	STH 49	1,000	CIR SECTION
			TOTAL	1,000	

3

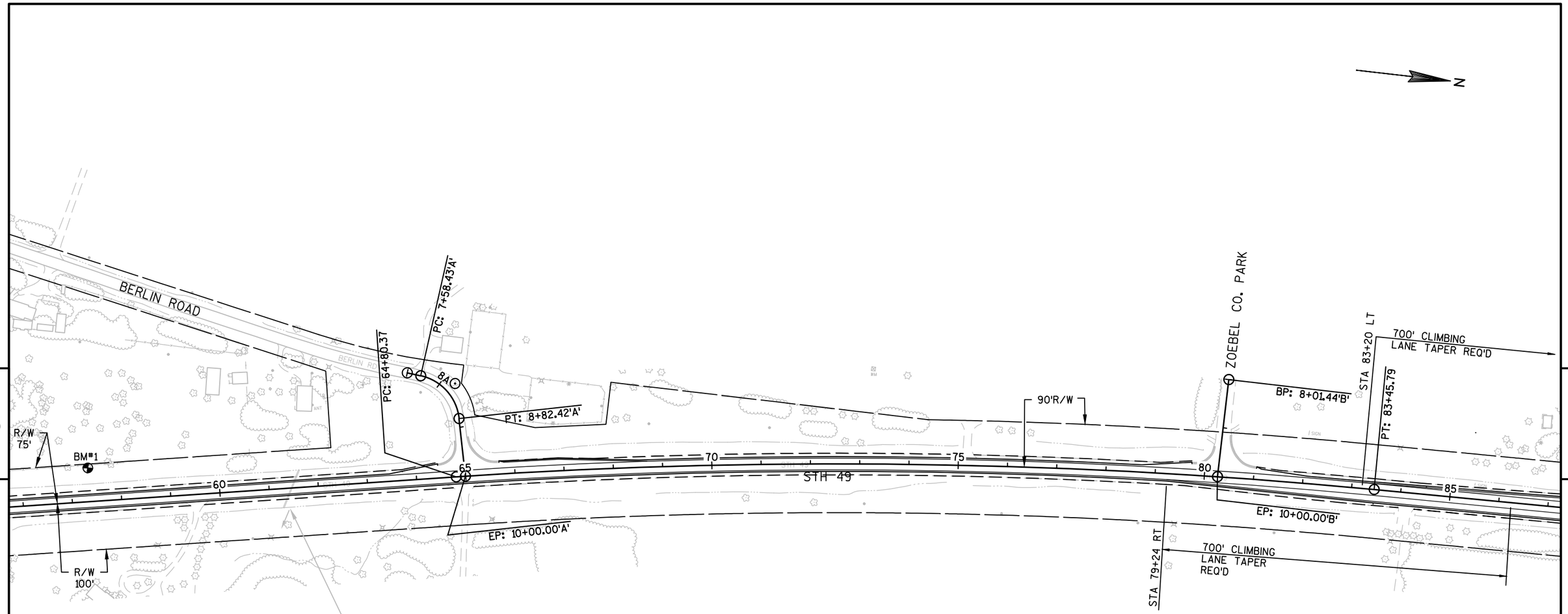


5 5

NOTE: THE SIDEROAD ALIGNMENTS WERE MADE BY CENTERING THEM ON THE SIDEROAD ON ELECTRONIC MAPPING. THEY ARE NOT CENTERED IN THE SIDEROAD RIGHT-OF-WAY.

ALIGNMENT DATA FOR SIDEROADS IS BASED ON ASBUILT PLANS WITHOUT ANY FIELD SURVEY AND IS TO BE USED AS REFERENCE ONLY.

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PLAN (SHEET 1)	SHEET 229	E



5

5

BENCH MARKS

NO.	STATION	OFFSET	DESCRIPTION	ELEV.
1	57+35.68	68.2' LT.	16" CONC. MON. BRASS CAP ON TOP	811.613

SUPERELEVATION TRANSITIONS

COMMENT	STATION	LEFT	RIGHT
NC	63+92	-2.0%	-2.0%
	64+18.5	-1.0%	-2.0%
	64+45	0.0%	-2.0%
	64+71.5	+1.0%	-2.0%
RC, FS	64+98	+2.0%	-2.0%
RC, FS	83+28.1	+2.0%	-2.0%
	83+54.6	+1.0%	-2.0%
	83+81.1	0.0%	-2.0%
	84+07.6	-1.0%	-2.0%
NC	84+34.1	-2.0%	-2.0%

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PLAN (SHEET 2)	SHEET 230	E

N

CTH J

BP: 5+00.11'C'

END CENTERLINE
RUMBLE STRIPS
STA 90+71

STA 90+20

700' CLIMBING TAPER REQ'D

DO NOT DISTURB
HEIGHT MODERNIZATION STATION

R/W
100'

BM#2

90 95 100 105 110 115

STH 49

PI: 10+00.00'C'

PI: 12+00.28'C'

R/W
85'

STA 107+00 RT

SLOPE INTERCEPT

700' CLIMBING LANE TAPER REQ'D

STA 114+00 RT

R/W
118'

STA 90+00
EXISTING CPCS 28"X 43"
SKEWED RHF
W/PIPE GRATES
ATTACHED ENDWALLS
MAINT LOG NO 24049004

16
9 10
9 10
13

EP: 14+99.97'C'

BROOKLYN JCT. ROAD

BRASS CAP IN 2"X12" IP
283956.305
573022.064

BENCH MARKS

NO.	STATION	OFFSET	DESCRIPTION	ELEV.
2	103+12.23	77.7' LT.	BRONZE DOT DISK ON TOP OF CONC POST (HMOD STA)	957.56

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PLAN (SHEET 3)	SHEET 231	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\050201_PN.DWG PLOT DATE : 4/10/2018 12:59 PM PLOT BY : STONE, JAY E PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 44

N

BLUFFTON ROAD

BP: 4+97.81'E'

C-24-9009
STA 121+77
EXISTING 42" X 63" X 124' CPCS
ATTACHED ENDWALLS
W/PIPE GRATES
MAINT LOG NO 24049005

STA 128+00 LT

R/W
100'

STA 140+75
B-24-0004

R/W
95'

BP: 10+00.00'D'

700' CLIMBING LANE TAPER REQ'D

120 125 130 135 140 145

STH 49

EP: 10+00.00'E'

BM*3

R/W
125'

SLOPE INTERCEPT

R/W
115'

T16N R13E 4 3 9 10

BRASS CAP IN 2"X12" IP
286609.054
573045.962

EP: 14+98.69'D'

MC CONNEL ROAD

T16N R13E 4 3 4 13

BRASS CAP IN 2"X30" IP
289266.878
572982.226

BENCH MARKS

NO.	STATION	OFFSET	DESCRIPTION	ELEV.
3	118+57.3	158.3' RT.	RT. IRON POST STAMPED 901 RESET 1957	902.58'

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PLAN (SHEET 4)	SHEET 232	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\050201_PN.DWG PLOT DATE : 4/10/2018 1:00 PM PLOT BY : STONE, JAY E PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 44

N

R/W
100'

R/W
50'

R/W
105'

150 155 160 165 170 175 180

STH 49

WALL

STA 156+12
EXISTING 60" CPCS x 112'
C-24-9009
ROCK & MORTAR HEADWALLS
MAINT LOG NO 24049006

BP: 10+00.00'F'

BM#4

DO NOT DISTURB
HEIGHT MODERNIZATION STATION

T 16 N
R 33 34 E
4 3
13

4-1" IP
292117.695
572876.318

EP: 15+00.19'F'

TOWNLINE ROAD

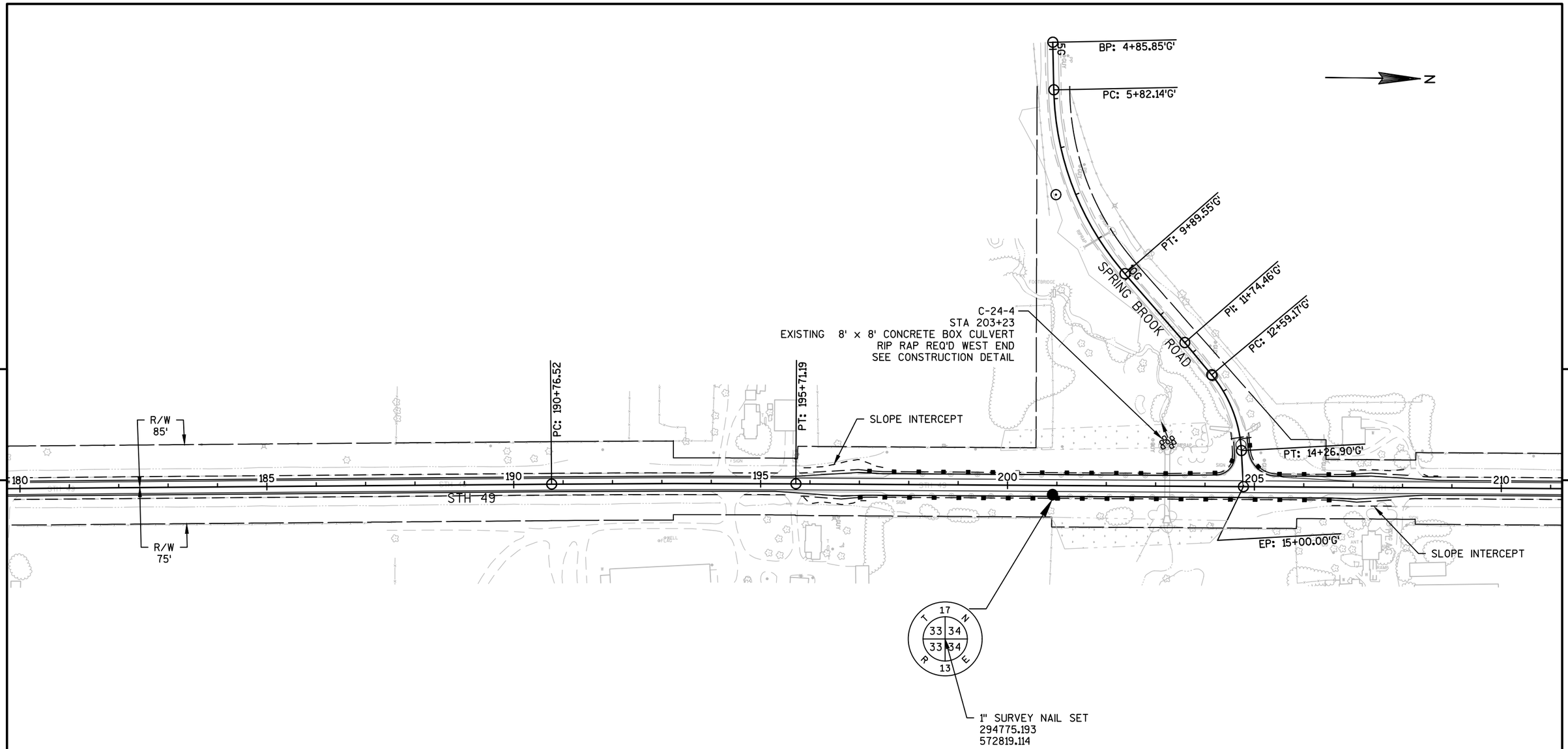
BENCH MARKS

NO.	STATION	OFFSET	DESCRIPTION	ELEV.
4	175+42.3	94.22' RT.	SURVEY DISK TOP OF CONC MOMUMENT (HMOD STA)	910.86

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PLAN (SHEET 5)	SHEET 233	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\050201_PN.DWG PLOT DATE : 4/10/2018 1:00 PM PLOT BY : STONE, JAY E PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 44



5

5

SUPERELEVATION TRANSITIONS

COMMENT	STATION	LEFT	RIGHT
NC	190+76.52	-2.0%	-2.0%
NC	195+71.19	-2.0%	-2.0%

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PLAN (SHEET 6)	SHEET 234	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\050201_PN.DWG PLOT DATE : 4/10/2018 1:00 PM PLOT BY : STONE, JAY E PLOT NAME : PLOT SCALE : 1 IN:200 FT

N

PULVERIZE AND RELAY

COLD IN PLACE RECYCLE

STA 222+24
REMOVE EXISTING 36" X 88' CPCS
1-36"X88' CP CLASS III-A REQ'D
2-36" APRON ENDWALLS REQ'D
INVERT AT EOP LT = 859.30
INVERT AT EOP RT = 860.73
SLOPE = 1.63 %
NO. 24049007

STA 225+25

STA 230+90
B-24-0443

SLOPE INTERCEPT

R/W 100'

R/W 55'

215 220 225 230 235 240

STH 49

BM*5

BP: 10+00.00'H'

198'

165'

792' South of the Forest Ridge RD Centerline

R/W 75'

SLOPE INTERCEPT

R/W 65'

DO NOT DISTURB
HEIGHT MODERNIZATION STATION

SILT FENCE
DO NOT TRENCH IN

165'

15'

R/W

STA 217+95 RT-STA 219+60 RT
SENSITIVE AREA

T 17 N
R 28 27 E
33 34
13

BRASS CAP IN 2"X12" IP
297435.088
572799.727

EP: 14+99.02'H'

FOREST RIDGE ROAD

BENCH MARKS

NO.	STATION	OFFSET	DESCRIPTION	ELEV.
5	240+55.21	43.82' RT.	SURVEY DISK IN TOP OF CONC MOMUMENT (HMOD STATION)	869.17

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PLAN (SHEET 7)	SHEET 235	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\050201_PN.DWG PLOT DATE : 4/10/2018 1:00 PM PLOT BY : STONE, JAY E PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 44

N

CTH AA WEST

BP: 4+99.66'I'

EP: 10+00.00'I'

STA 263+93 LT
EXISTING ABANDONED WELL
USE CAUTION

R/W 50'
R/W 70'
R/W 70'
R/W 70'
R/W 50'
R/W 80'

245 250 255 260 265 270

STH 49

R/W 65'
R/W 55'
R/W 80'
R/W 80'

T 17 N
R 13 E
28 27
28 27

BRASS CAP IN 2"X12" IP
300092.313
572795.840

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PLAN (SHEET 8)	SHEET 236	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\050201_PN.DWG PLOT DATE : 4/10/2018 1:00 PM PLOT BY : STONE, JAY E PLOT NAME : PLOT SCALE : 1 IN:200 FT

N

5

5

SLOPE INTERCEPT

STA 289+01
SAW CUT REQ'D

STA 290+11
SAW CUT REQ'D

SLOPE INTERCEPT

R/W
55'

R/W
75'

R/W
90'

275 280 285 290 295 300

BP: 10+00.00'J'

STH 49

R/W
70'

R/W
110'

SLOPE INTERCEPT

17
21 22
28 27
13
T N
R E

STA 275+43
EXISTING 36" CPCS
SKEWED LHF
MAINT LOG NO 24049008

BRASS CAP IN 2"X12" IP
302757.446
572755.795

CTH AA (EAST)

EP: 15+00.24'J'

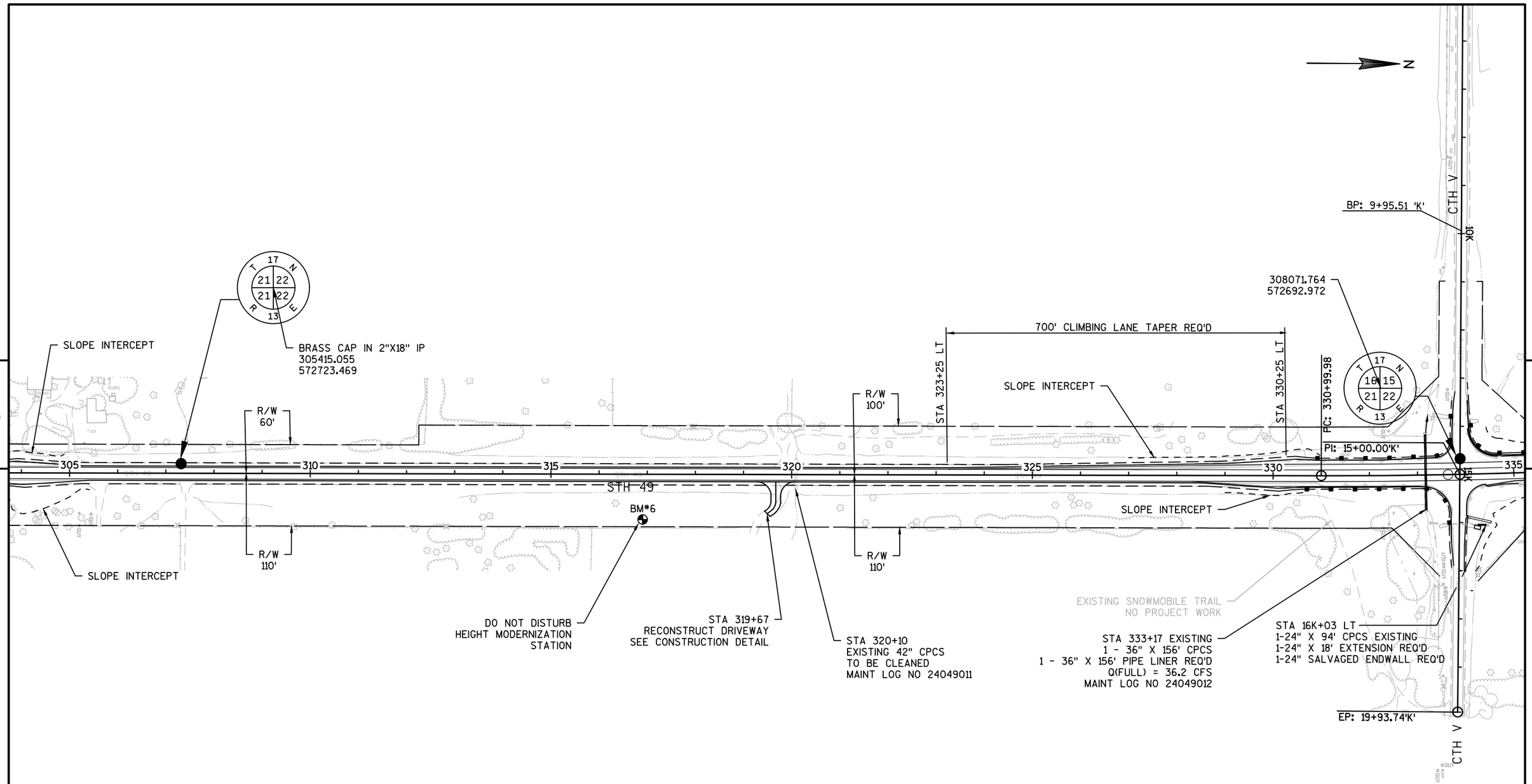
STA 286+92
EXISTING 48" X 92' CPCS
EXISTING ROCK & MORTAR HEADWALLS
TO REMAIN PLACE TOPSOIL AND SHAPE
AT 3:1 OVER HEADWALL RT ONLY
1-42" X 100' PIPE LINER REQ'D
Q (FULL) = 148.4 CFS
EXTEND RIGHT SIDE OF EXISTING
PIPE 6 FEET BEFORE LINING.
1-48"X6' CPCS REQ'D.
1-48"APRON ENDWALL REQ'D
INVERT AT EOP 43.6' LT = 829.37
INVERT AT EOP 44.3' RT = 832.69
MAINT LOG NO 24049009

STA 289+55
EXISTING 45" X 72" x 69' STEEL CATTLE PASS
REMOVE EXISTING CATTLE PASS
FLOOR, HEADWALLS AND ENDWALLS
1-24" X 88' CP CLASS III-A REQ'D
2-24" APRON ENDWALLS REQ'D
INVERT AT EOP 47.84' LT = 831.83
INVERT AT EOP 40.16' RT = 833.75
SLOPE = 2.18%
MAINT LOG NO 24049010

STA 301+68
EXISTING 6' X 6' X 132'
CONC BOX CULVERT
SKEWED RHF
C-24-0006

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PLAN (SHEET 9)	SHEET 237	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\050201_PN.DWG PLOT DATE : 4/10/2018 1:00 PM PLOT BY : STONE, JAY E PLOT NAME : PLOT SCALE : 1 IN:200 FT



5 5

BENCH MARKS

NO.	STATION	OFFSET	DESCRIPTION	ELEV.
6	316+90.41	94.13' RT.	AZIMUTH MARK DISK ON TOP OF CONC. MONUMENT (HMOD STATION)	906.81

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PLAN (SHEET 10)	SHEET 238	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\050201_PN.DWG PLOT DATE : 4/10/2018 1:00 PM PLOT BY : STONE, JAY E PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 44

SUPERELEVATION TRANSITIONS

COMMENT	STATION	LEFT	RIGHT
NC	330+11.7	-2.0%	-2.0%
	330+38.2	-2.0%	-1.0%
	330+64.7	-2.0%	0.0%
	330+91.2	-2.0%	+1.0%
RC, FS	331+17.7	-2.0%	+2.0%
RC, FS	336+09.0	-2.0%	+2.0%
	336+35.5	-2.0%	+1.0%
	336+62.0	-2.0%	0.0%
	336+88.5	-2.0%	-1.0%
NC	337+15.0	-2.0%	-2.0%

BENCH MARKS

NO.	STATION	OFFSET	DESCRIPTION	ELEV.
7	347+37.28	103.15' RT.	DISK SET IN TOP OF CONC. MONUMENT (HMOD STA)	933.03

N

OLD HWY 49 (SOUTH)

TS

BP: 4+11.89'L'

SLOPE INTERCEPT

PC: 8+42.09'L'

PT: 9+68.78'L'

PT: 336+26.63

OLD HWY 49 NORTH

BP: 7+68.08'M'

SLOPE INTERCEPT

PC: 362+49.55

R/W 115'

STH 49

35 340 345 350 355 360 365

EP: 10+00.00'M

250' TAPER 100'

465' TAPER REQ'D 400'

PI: 10+00.00'L'

BM#7

DRIVEWAY FOR ALLSAINTS CATHOLIC CHURCH

R/W 115'

DO NOT DISTURB HEIGHT MODERNIZATION STATION

STA 357+36
EXISTING 24" CPCS
2-EXISTING ENDWALLS
SKEWED LHF
MAINT LOG NO 24049014

STA 358+74 EXTEND
EXISTING 18" CPCS
1-18" X 8' CPCS
1-APRON ENDWALL
FOR CULVERT PIPE
SALVAGED 18 INCH

STA 359+35 RT

STA 364+00 RT

SLOPE INTERCEPT

STA 340+18
EXISTING 60" CPCS
C-24-9010
MAINT LOG NO 24049013

EP: 15+00.25'L'

T 17 N
16 15
16 15
R 13 E

310718.599
572718.628

5 5

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PLAN (SHEET 11)	SHEET 239	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\050201_PN.DWG PLOT DATE : 4/10/2018 1:00 PM PLOT BY : STONE, JAY E PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 44

SUPERELEVATION TRANSITIONS

COMMENT	STATION	LEFT	RIGHT
NC	361+39.9	-2.0%	-2.0%
	361+66.4	-1.0%	-2.0%
	361+92.9	0.0%	-2.0%
	362+19.5	+1.0%	-2.0%
RC	362+46.0	+2.0%	-2.0%
	362+72.6	+3.0%	-3.0%
FS	362+77.9	+3.2%	-3.2%
FS	382+03.6	+3.2%	-3.2%
	382+08.9	+3.0%	-3.0%
RC	382+35.5	+2.0%	-2.0%
	382+62.0	+1.0%	-2.0%
	382+88.6	0.0%	-2.0%
	383+15.1	-1.0%	-2.0%
NC	383+41.6	-2.0%	-2.0%

BP: 4+91.93'N'

PC: 5+99.39'N'

STA 8'N'+50
EXISTING INVERT
EL : 780.98
OFFSET 24.5' RT

EXISTING INVERT
EL : 779.71
OFFSET 25.5' LT

1-48" X 16' CPCS REQ'D LT
1-48" CPEW STEEL ENDWALL REQ'D LT

CTH A

STA 366+35 LT

SLOPE INTERCEPT

PT: 8+14.85'N'

700' CLIMBING LANE TAPER REQ'D

STA 373+35 LT

STH 49

PT: 382+31.92

R/W
100'

EP: 10+00.00'N'

BP: 10+00.00'O'

300' TAPER REQ'D

400'

STA 371+10 RT

EP: 12+74.56'O'

EAST A ROAD

STA 378+10
REMOVE EXISTING 36" CPCS
1 - 36" X 84' CPRC CLASS III REQ'D
2 - 36" REINFORCED CONCRETE APRON ENDWALLS REQ'D
INVERT AT EOP 44' LT = 753.92
INVERT AT EOP 40' RT = 753.92
SLOPE = 0.00%
MAINT LOG NO 24049015

STA 389+12
REMOVE EXISTING 36" CPCS
1-42" X 86' CPRC REQ'D
2-42" REINFORCED CONCRETE ENDWALLS REQ'D
INVERT AT EOP 42' LT = 752.77
INVERT AT EOP 44' RT = 752.77
SLOPE = 0.00%
MAINT LOG NO 24049016

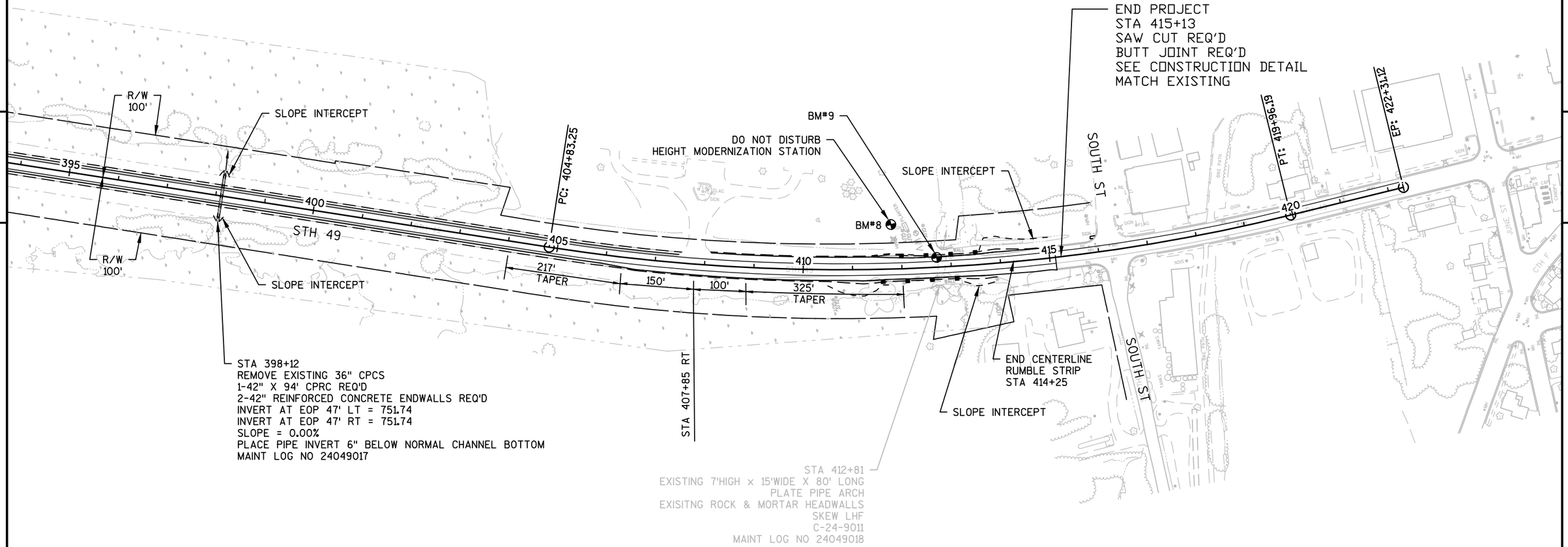
PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PLAN (SHEET 12)	SHEET 240	E

FILE NAME : N:\PDS\C3D\62100002\SHEETSPLAN\050201_PN.DWG PLOT DATE : 4/10/2018 1:00 PM PLOT BY : STONE, JAY E PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 44

SUPERELEVATION TRANSITIONS

COMMENT	STATION	LEFT	RIGHT
NC	403+63.7	-2.0%	-2.0%
	403+90.5	-2.0%	-1.0%
	404+17.3	-2.0%	0.0%
	404+44.1	-2.0%	+1.0%
RC	404+70.9	-2.0%	+2.0%
	404+97.6	-3.0%	+3.0%
FS	405+16.3	-3.7%	+3.7%
FS	414+63	-3.7%	+3.7%
MATCH EXISTING	415+13	-3.2%	+2.4%



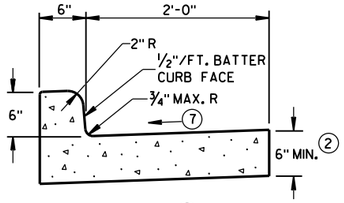
BENCH MARKS

NO.	STATION	OFFSET	DESCRIPTION	ELEV.
8	411+80	89.87' LT.	DISK SET IN TOP OF CONC. MONUMENT (HMOD STA)	760.84
9	412+71.6	21' RT.	ON WEST CENTER OF HEADWALL BRIDGE, CHISELED SQUARE	762.25'

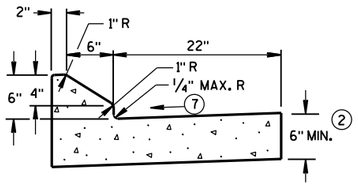
Standard Detail Drawing List

08D01-20A	CONCRETE CURB & GUTTER
08D01-20B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F07-05	STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE FRAINS
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
09G02-04C	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
13A11-02A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-02B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
14B07-15A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B28-03	GUARDRAIL MOW STRIP
14B29-01	SAFETY EDGE
14B42-05A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-05B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-05C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-05D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B43-03A	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B43-03B	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B43-03C	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B44-03A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-03B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-03C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B51-01A	ANCHOR POST ASSEMBLY TOP-MOUNTED
14B51-01B	ANCHOR POST ASSEMBLY TOP-MOUNTED
14B51-01C	ANCHOR POST ASSEMBLY TOP-MOUNTED
14B53-01A	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01B	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01C	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01D	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01E	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01F	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01G	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01H	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01I	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
15C04-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C04-04	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-18A	LONGITUDINAL MARKING (MAINLINE)
15C08-18B	PAVEMENT MARKING (TURN LANES)
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-06	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-05A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-05B	MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY
15C33-03	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-02A	PAVEMENT MARKING (INTERSECTIONS)
15C35-02B	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15C35-02C	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15D12-06A	TRAFFIC CONTROL, LANE CLOSURE
15D21-05	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D33-04	TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS
15D38-02B	ATTACHMENT OF SIGNS TO POSTS
15D39-01	TRAFFIC CONTROL, DROP-OFF SIGNING
16A01-06	LANDMARK REFERENCE MONUMENTS AND COVERS

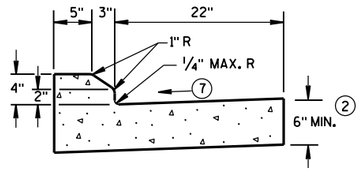
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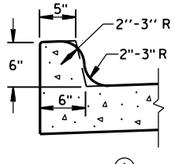
TYPES A (1) & D



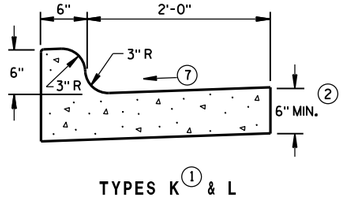
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

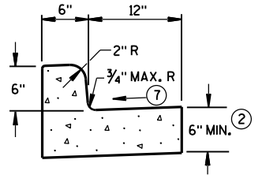


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



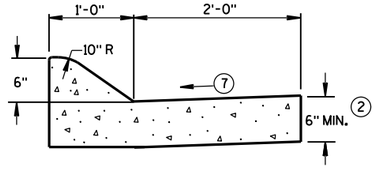
TYPES K (1) & L

CONCRETE CURB & GUTTER 30"

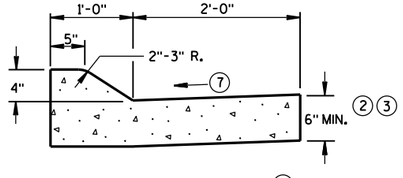


TYPES A (1) & D

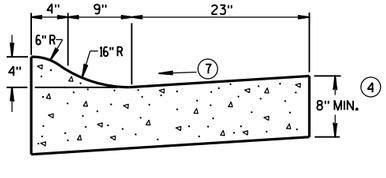
CONCRETE CURB & GUTTER 18"



6" SLOPED CURB TYPES A (1) & D

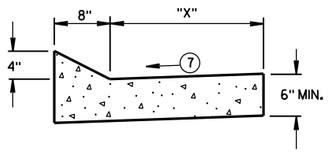


4" SLOPED CURB TYPES A (1) & D



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

CONCRETE CURB & GUTTER 36"



TYPES TBT & TBTT (1)

CONCRETE CURB & GUTTER

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

GENERAL NOTES

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

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

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

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

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

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

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

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

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

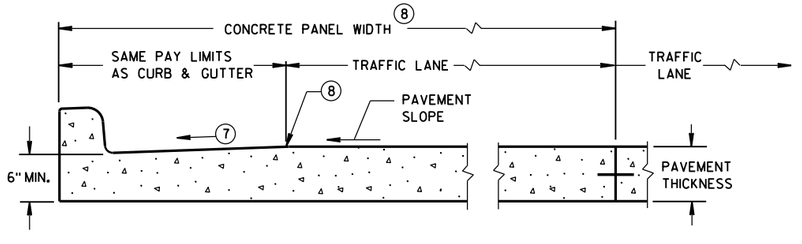
(6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

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

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

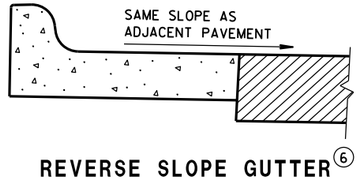
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

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



PARTIAL SECTION OF PAVEMENT *
WITH INTEGRAL CURB & GUTTER

* BIKE LANE IS NOT SHOWN.



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

CONCRETE CURB & GUTTER

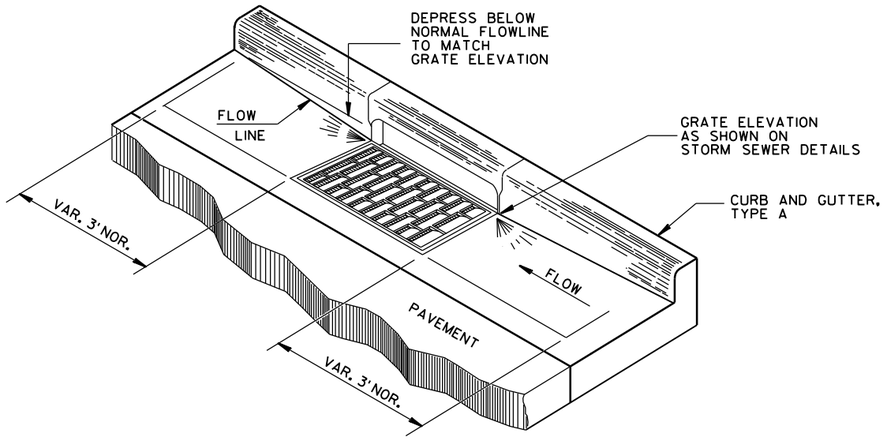
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

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

6

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



DETAIL OF CURB AND GUTTER AT INLETS

(TYPE H INLET COVER SHOWN)

GENERAL NOTES

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

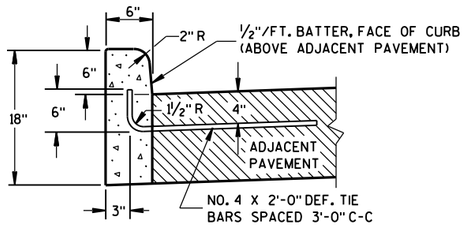
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

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

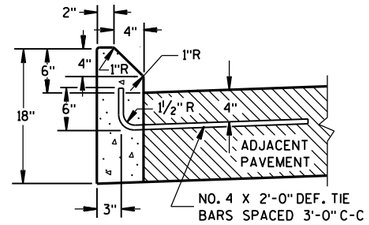
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

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

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

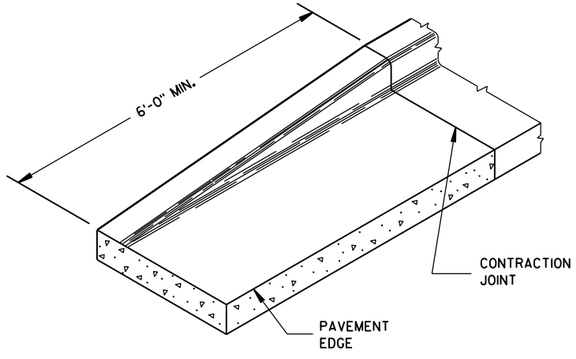


TYPES A(1) & D

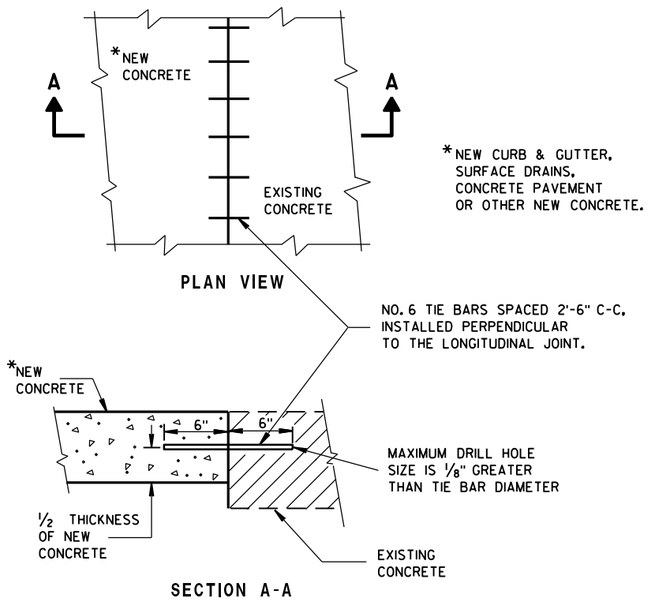


TYPES G(1) & J

CONCRETE CURB



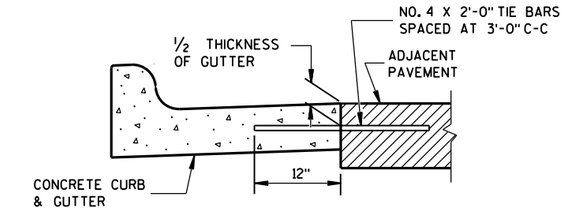
END SECTION CURB & GUTTER



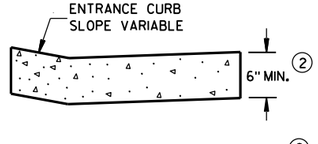
PLAN VIEW

SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT



TYPICAL TIE BAR LOCATION (1)



DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2017 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS 244 ENT
UNIT SUPERVISOR
FHWA

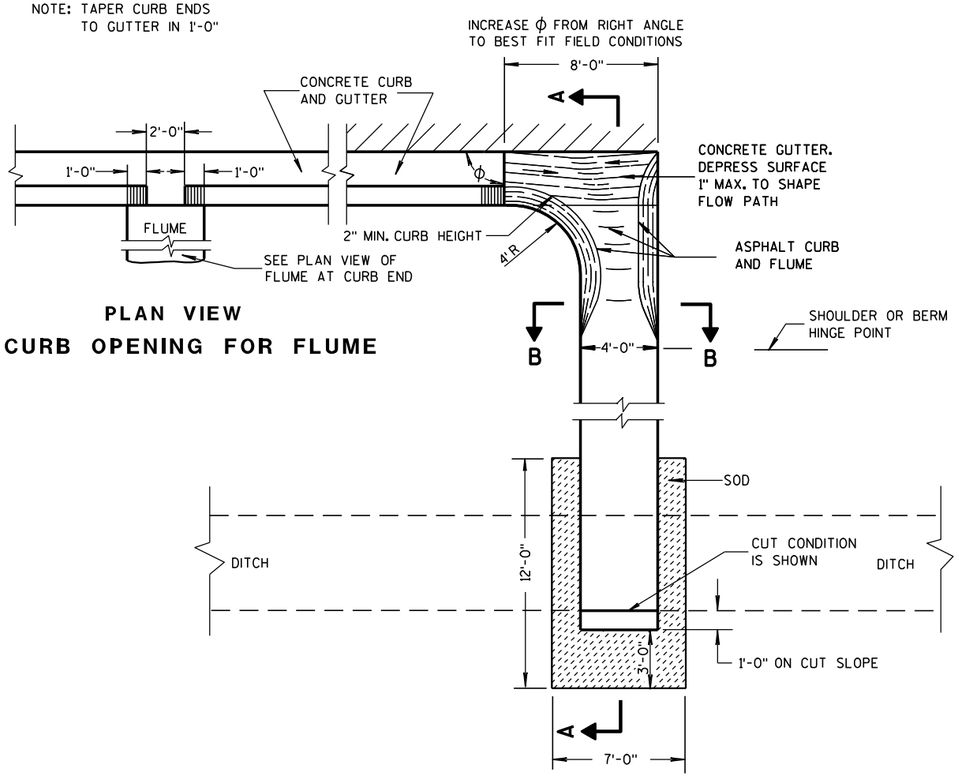
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S.D.D. 8 D 1-20b

6

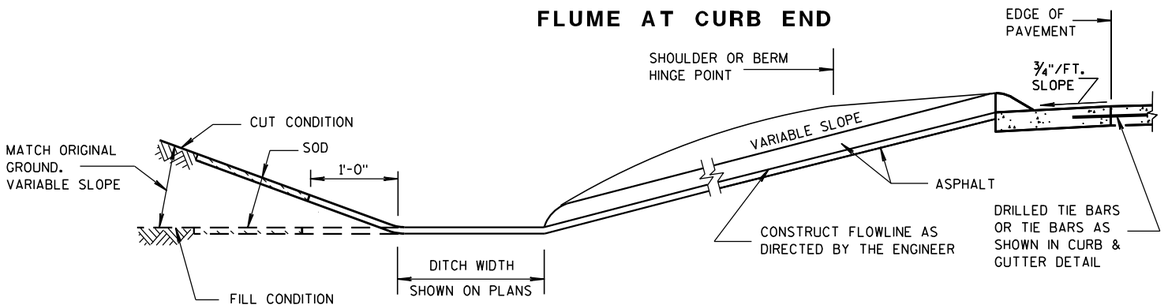
S.D.D. 8 D 1-20b

ASPHALTIC FLUME

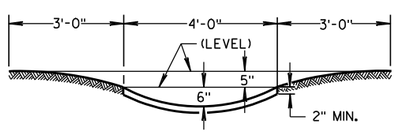


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

GENERAL NOTES

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

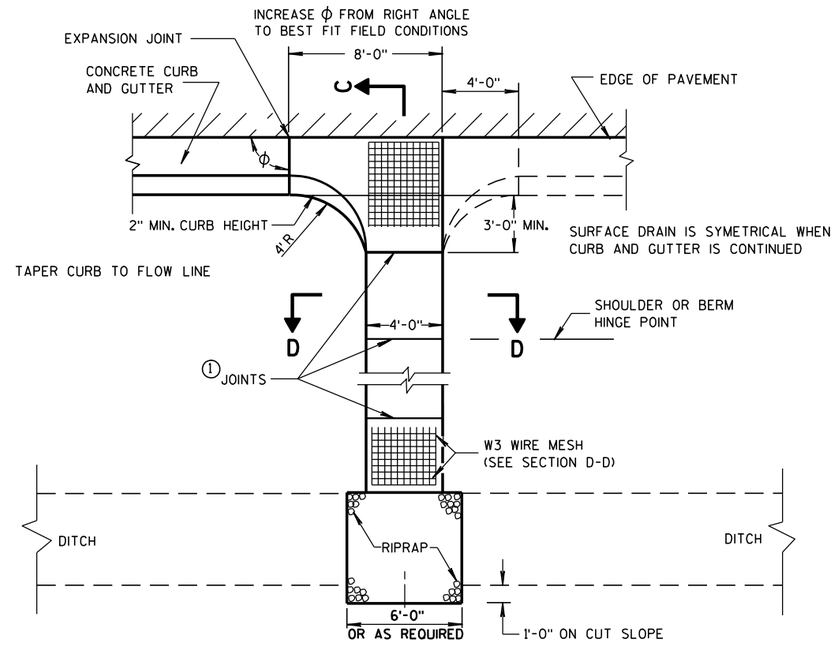
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE $\frac{1}{8}$ TO $\frac{1}{4}$ INCH WIDE BY $1\frac{1}{2}$ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

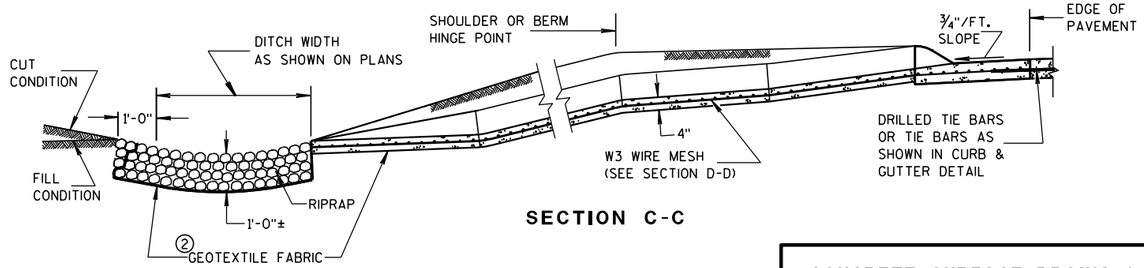
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

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

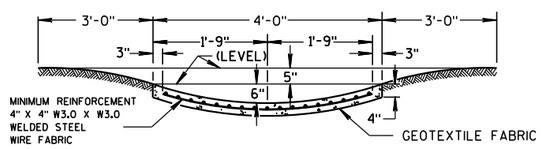
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

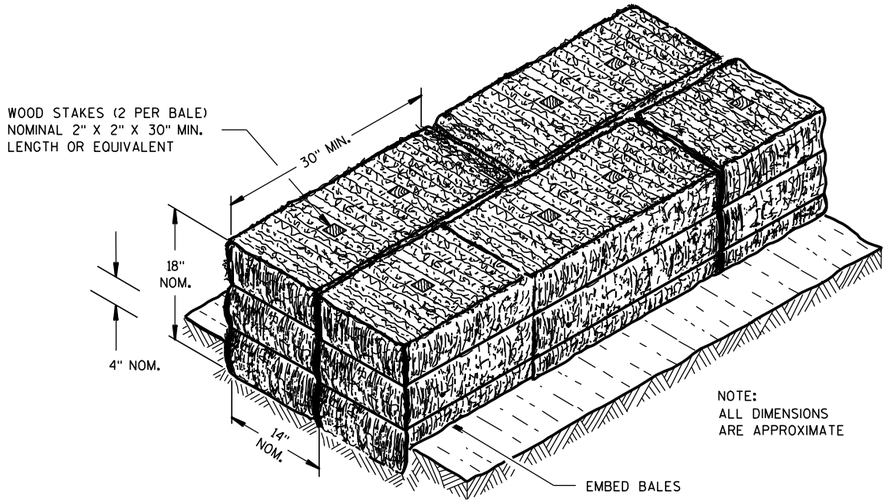
APPROVED
9-4-08 DATE
/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER
245
MENT
FHWA

6

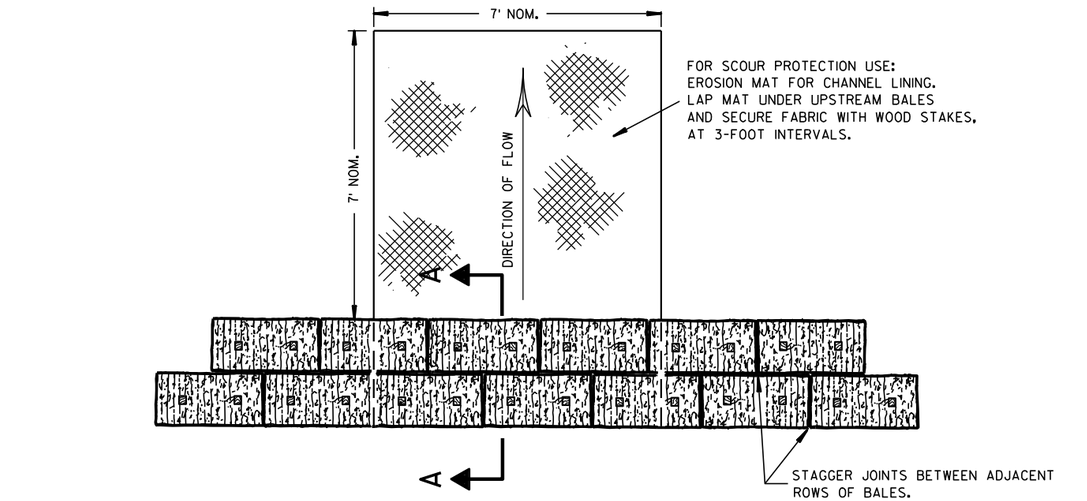
S.D.D. 8 D 4-5

6

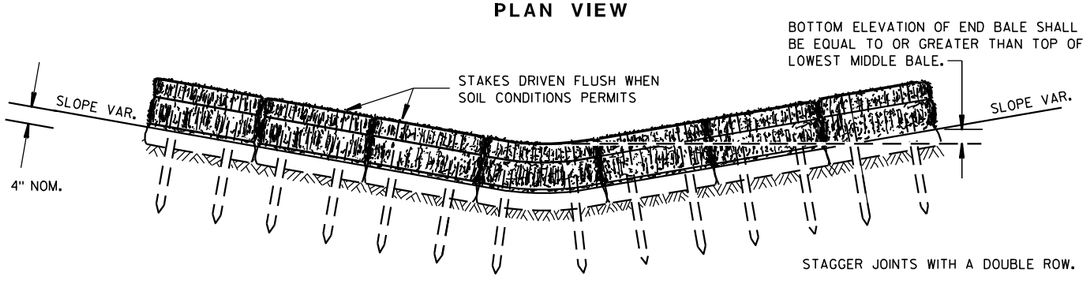
S.D.D. 8 D 4-5



SECTION A-A



PLAN VIEW



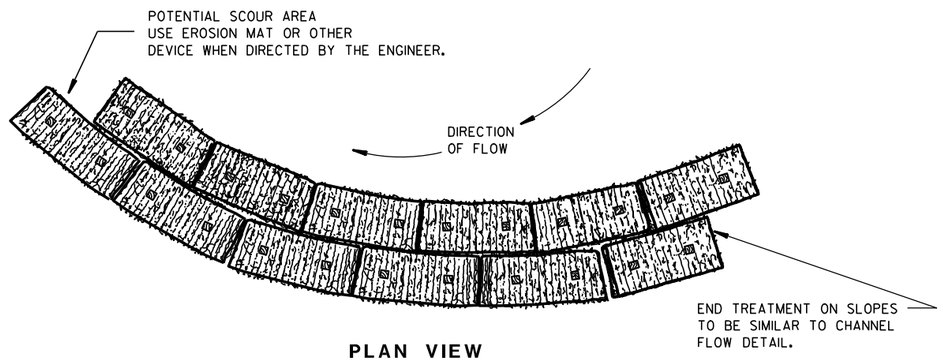
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

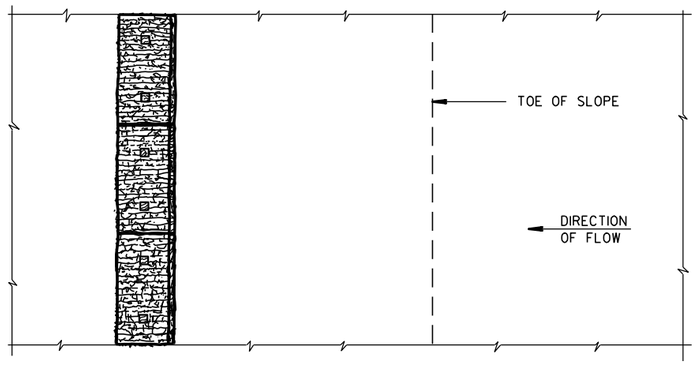
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

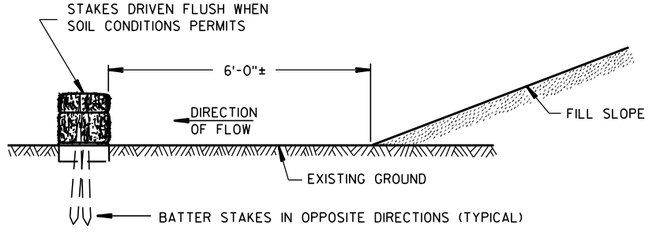


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

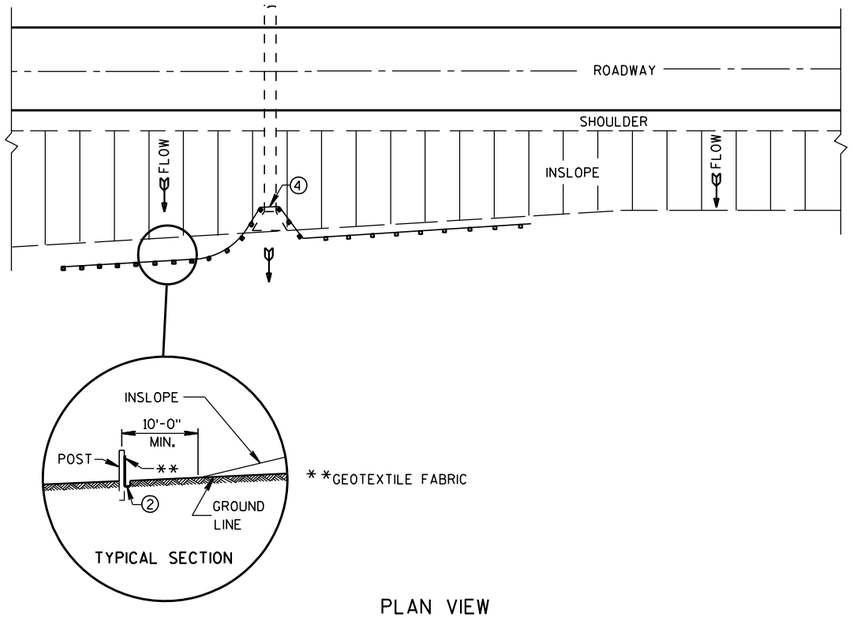
APPROVED
6/04/02 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 E 8-3

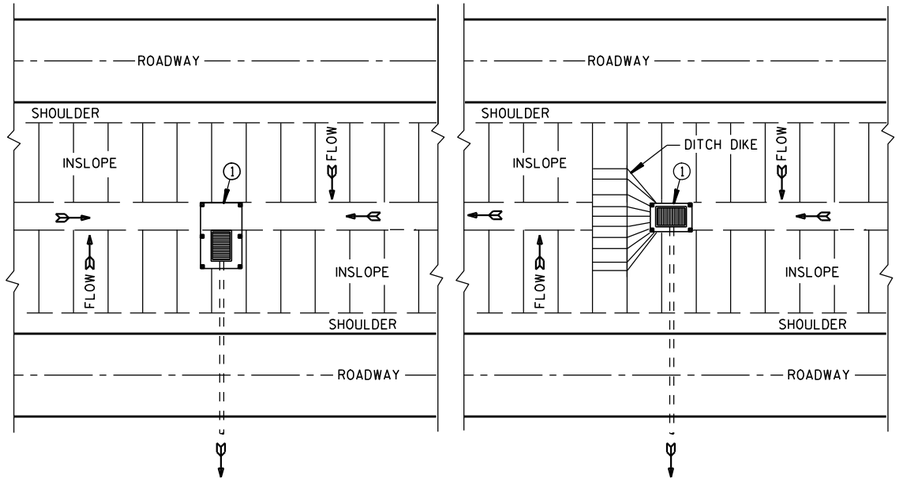
6

S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



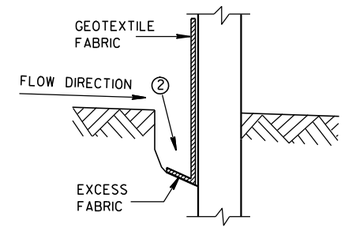
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

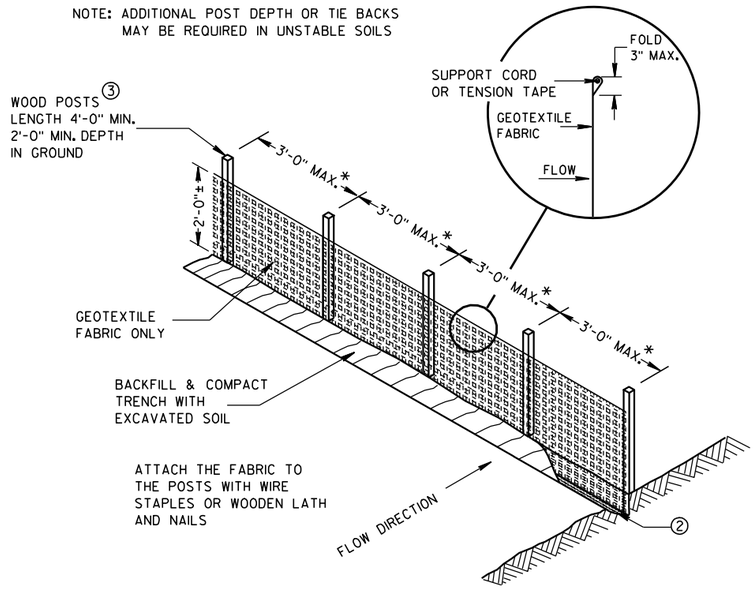
GENERAL NOTES

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

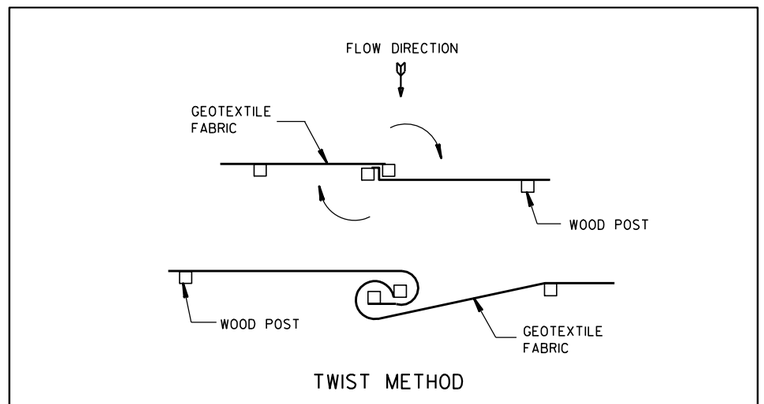
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL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



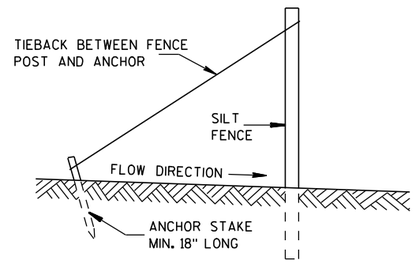
TRENCH DETAIL



SILT FENCE



JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

6

S.D.D. 8 E 9-6

6

S.D.D. 8 E 9-6

METAL APRON ENDWALLS

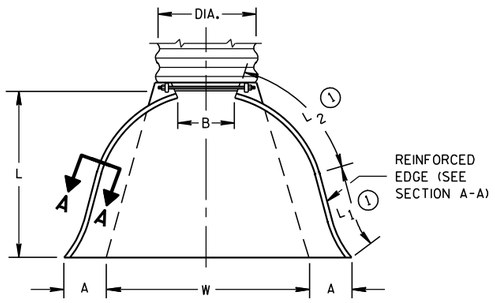
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4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

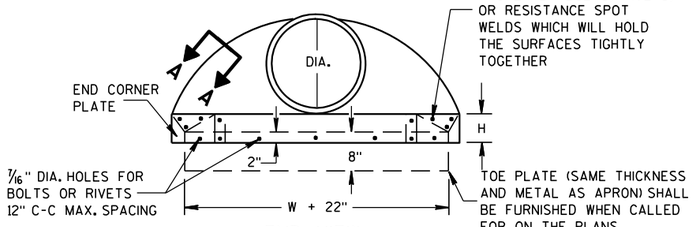
REINFORCED CONCRETE APRON ENDWALLS

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

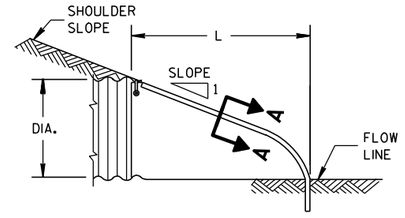
*MINIMUM
**MAXIMUM



PLAN VIEW

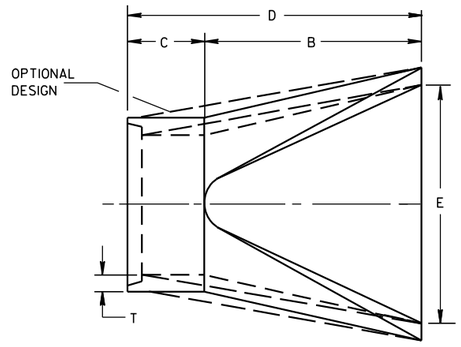


END VIEW

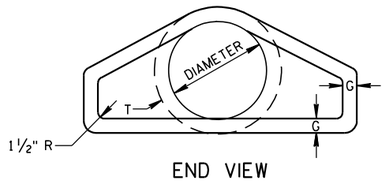


SIDE ELEVATION

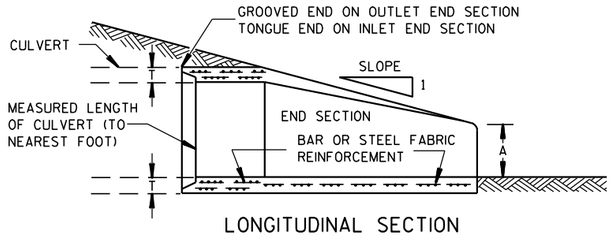
METAL ENDWALLS



PLAN

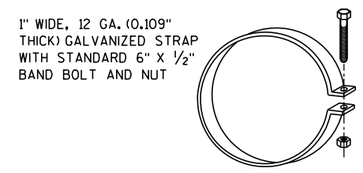


END VIEW



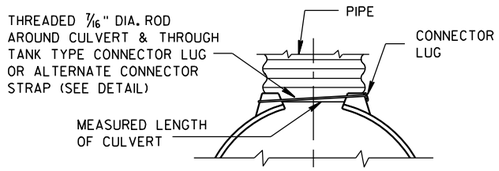
LONGITUDINAL SECTION

CONCRETE ENDWALLS

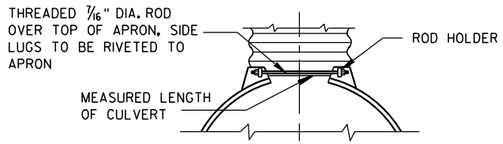


ALTERNATE FOR TYPE 1 CONNECTION

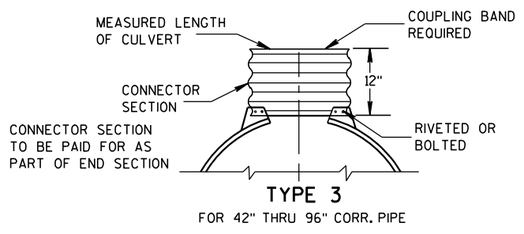
END SECTION CONNECTOR STRAP



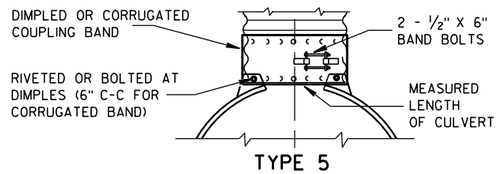
TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

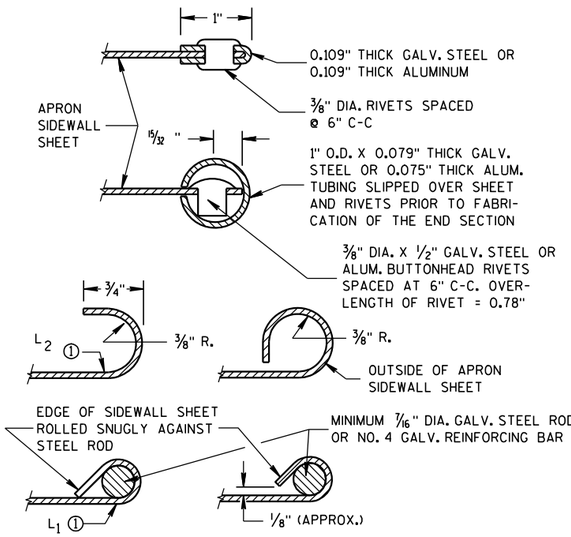
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

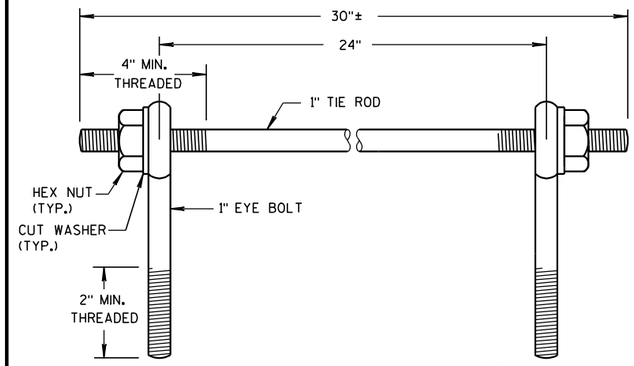
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

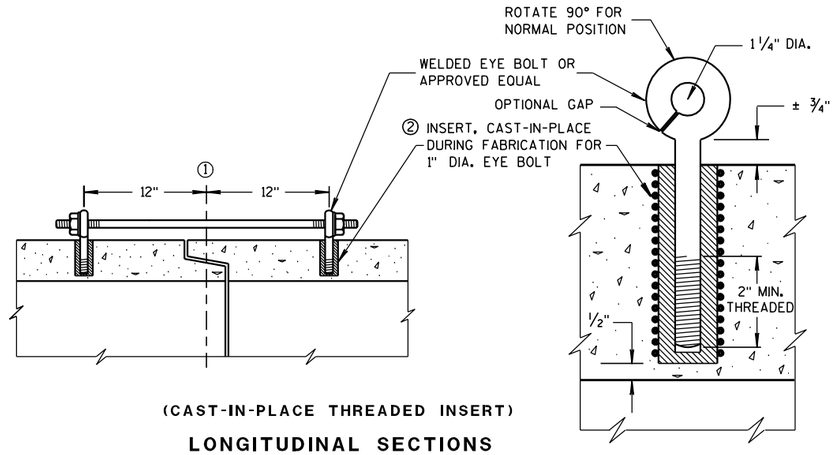
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

6
S.D.D. 8 F 1-11



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

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

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

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

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

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

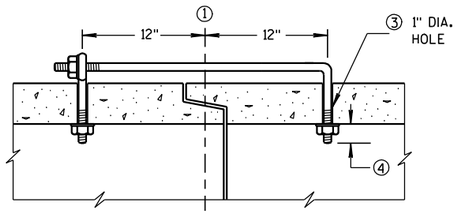
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

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

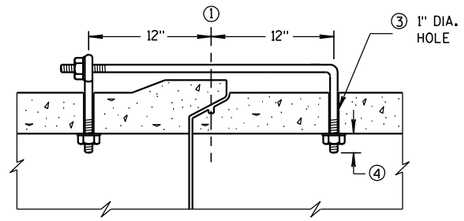
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

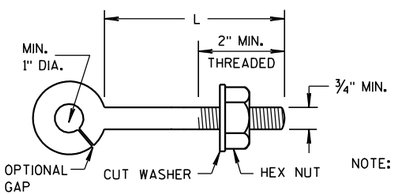


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

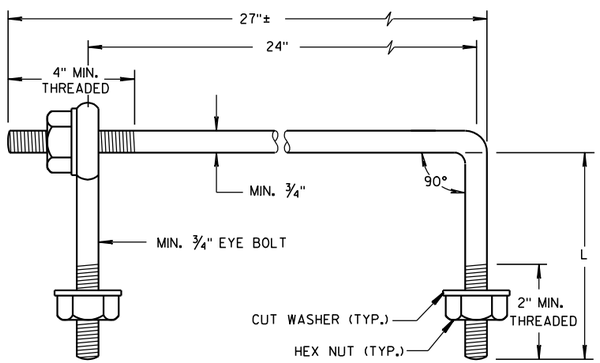
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

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



EYE BOLT AND TIE ROD

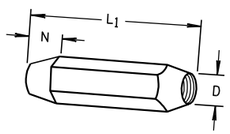
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

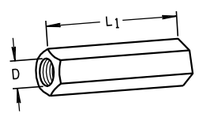
ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

DIMENSIONS SHOWN ARE IN INCHES



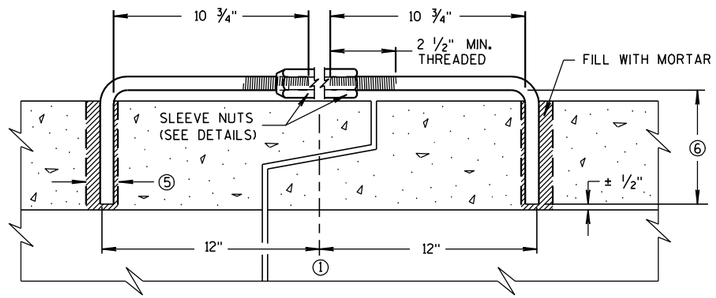
TAPERED



PLAIN

RIGHT AND LEFT THREADS

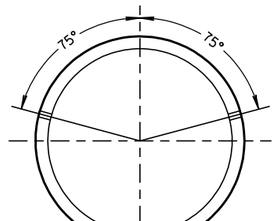
SLEEVE NUTS



LONGITUDINAL SECTION

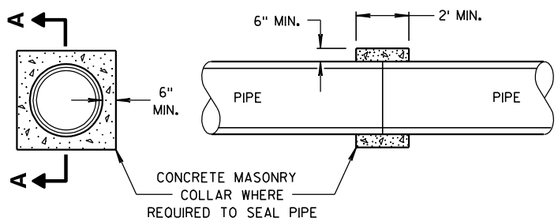
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



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

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

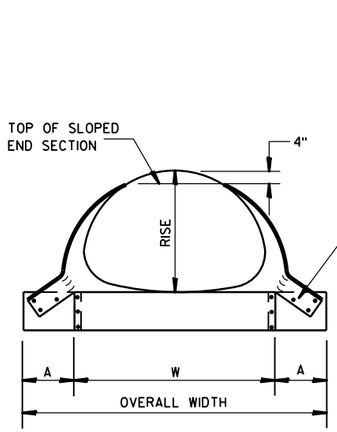
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

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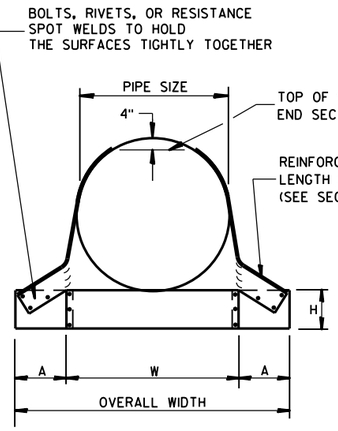
S.D.D. 8 F 4-7

6

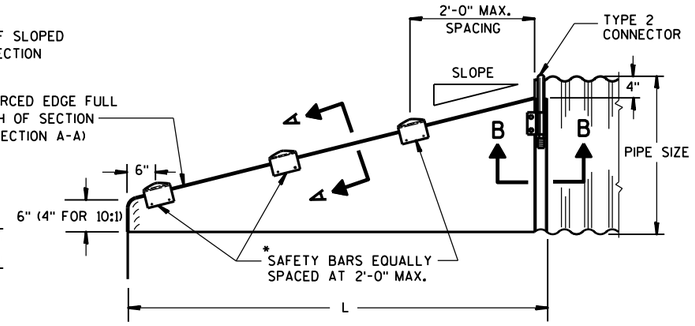
S.D.D. 8 F 4-7



FRONT VIEW



FRONT VIEW



SIDE VIEW

GENERAL NOTES

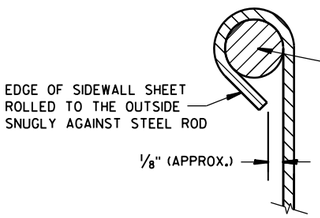
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

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

STEEL APRON ENDWALLS FOR CULVERT PIPE
SLOPED SIDE DRAINS

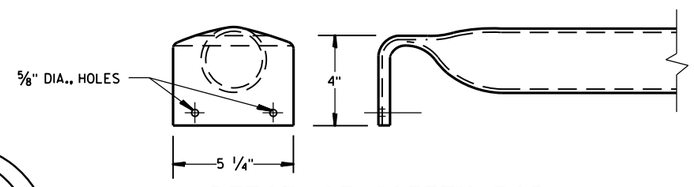
PIPE DIA. (IN.)	MIN. THICK. (Inches)	DIMENSIONS (Inches)				L DIMENSIONS					
		A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	.064	8	6	21	37	4:1	20	6:1	30	10:1	70
18	.064	8	6	24	40	4:1	32	6:1	48	10:1	100
21	.064	8	6	27	43	4:1	44	6:1	66	10:1	130
24	.064	8	6	30	46	4:1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



SECTION A-A

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

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

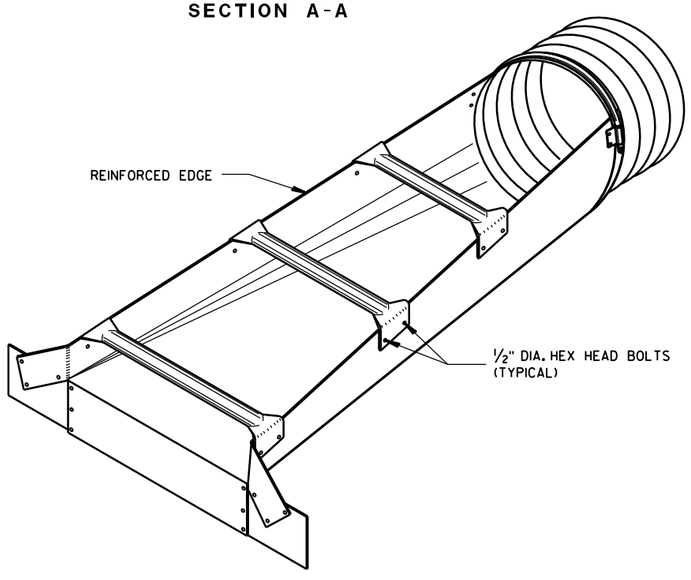


DETAIL OF SAFETY BAR

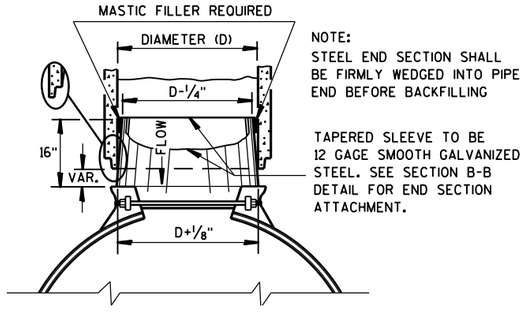
STEEL APRON ENDWALLS FOR PIPE ARCH
SLOPED SIDE DRAINS

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

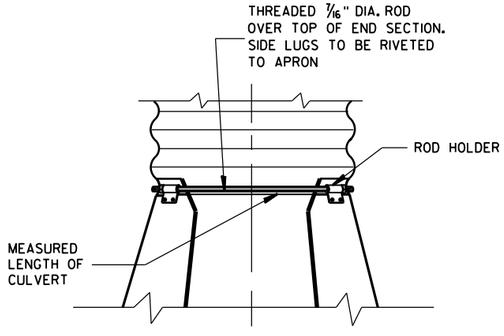
① * MINIMUM THICKNESS OF ALL 10:1 SLOPED SIDE DRAINS IS 0.109".
② ACTUAL SLOPE GREATER THAN 10:1.



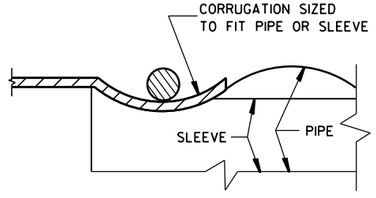
ISOMETRIC VIEW



STEEL ADAPTER SLEEVE FOR CONCRETE PIPE



TYPE 2
CONNECTION DETAIL



SECTION B-B

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

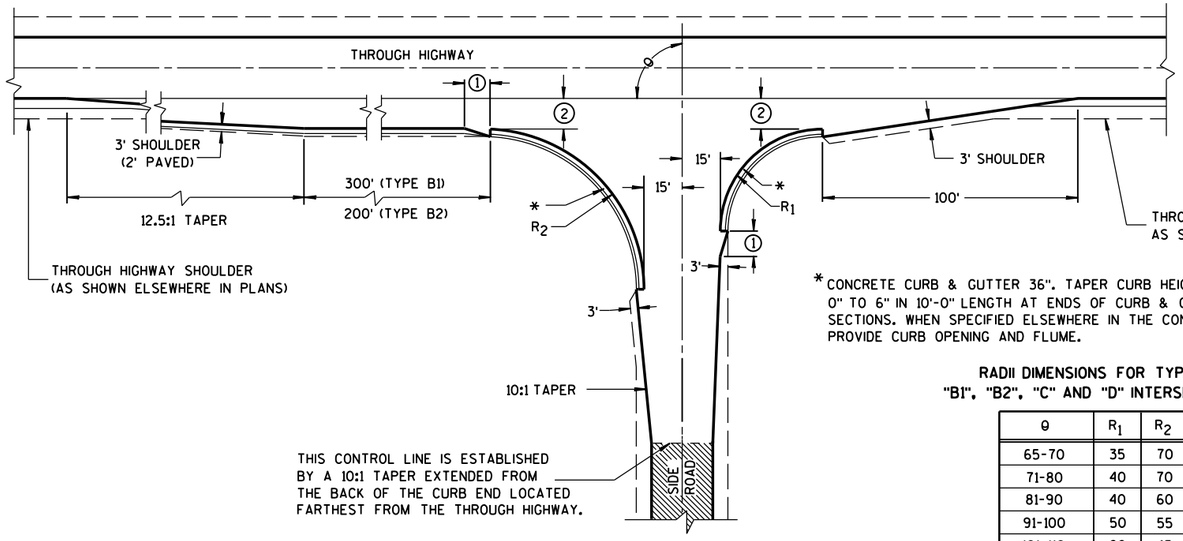
250

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S.D.D. 8 F 7-5

6

S.D.D. 8 F 7-5

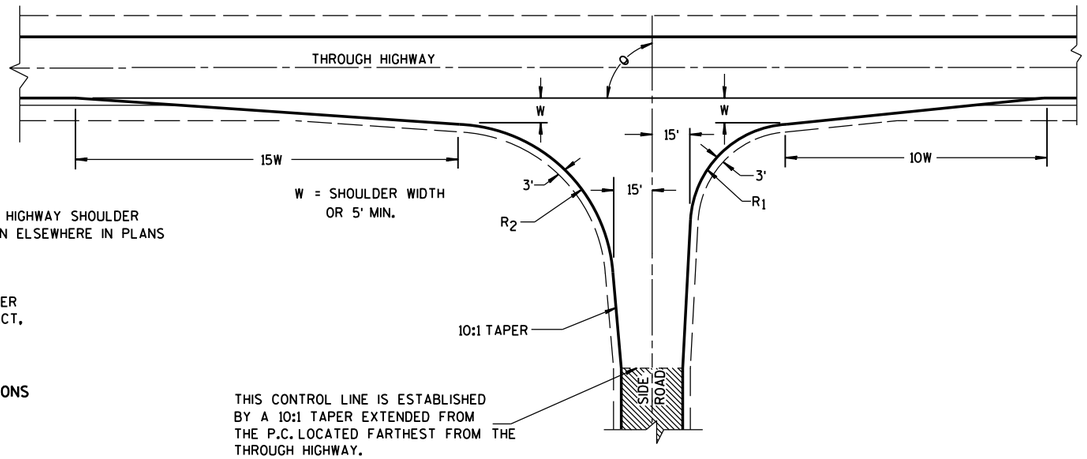


TYPE "B1" AND "B2"

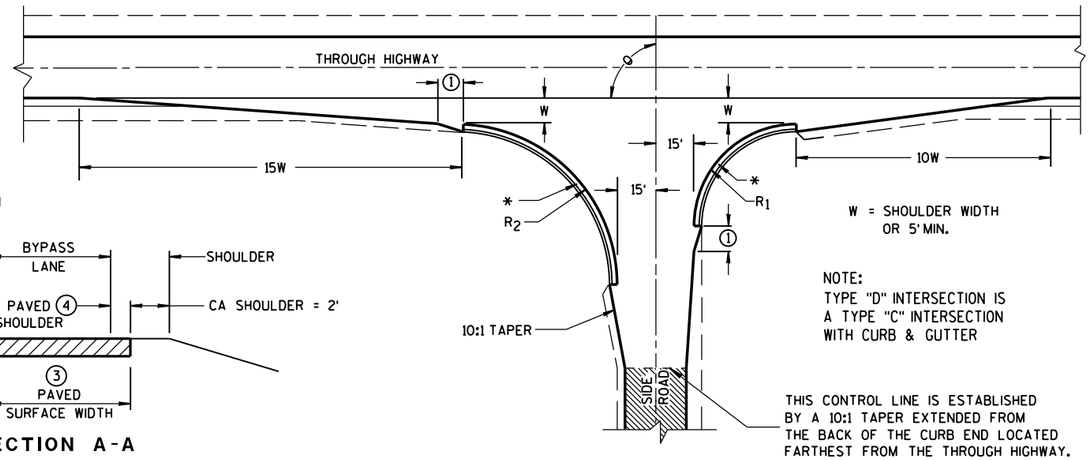
*CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

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

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



TYPE "C"



TYPE "D"

GENERAL NOTES

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

SIDE ROAD SURFACING NOTE

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

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

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

EXISTING PAVED SURFACE

BYPASS LANE

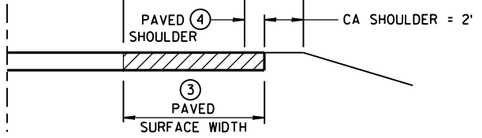
(1) 10-FT TYPICAL.

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

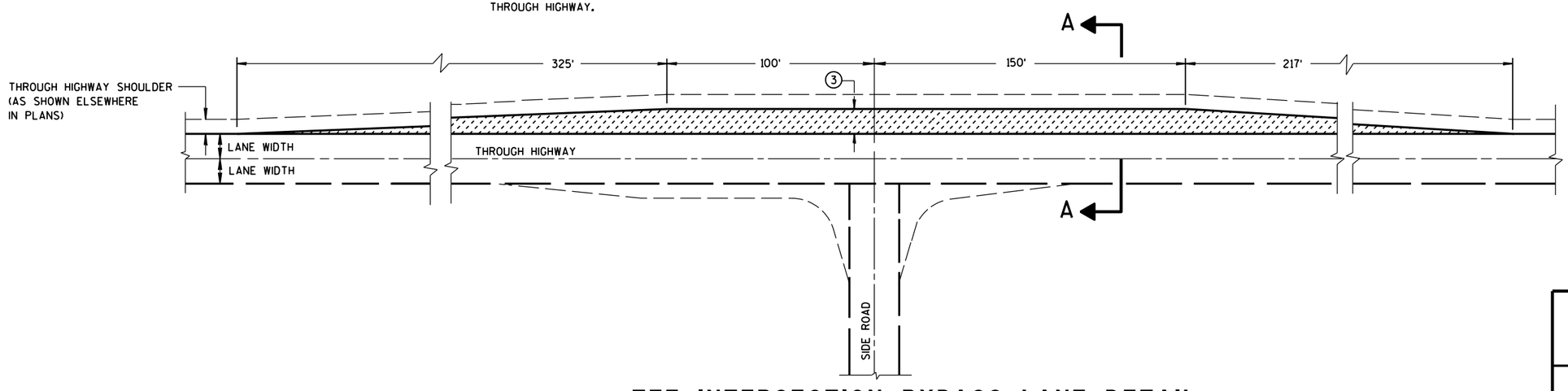
**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.

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

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



SECTION A-A
(SHOWING BYPASS LANE AND SHOULDER)



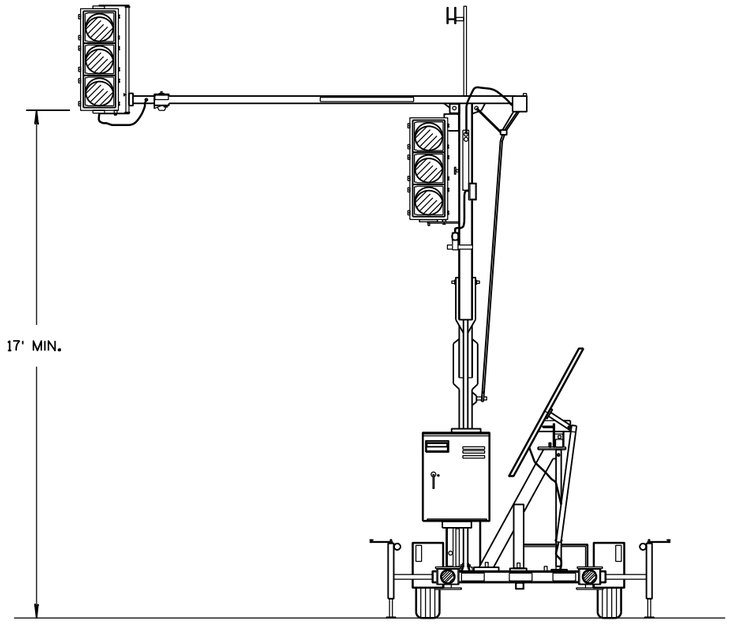
TEE INTERSECTION BYPASS LANE DETAIL

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

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

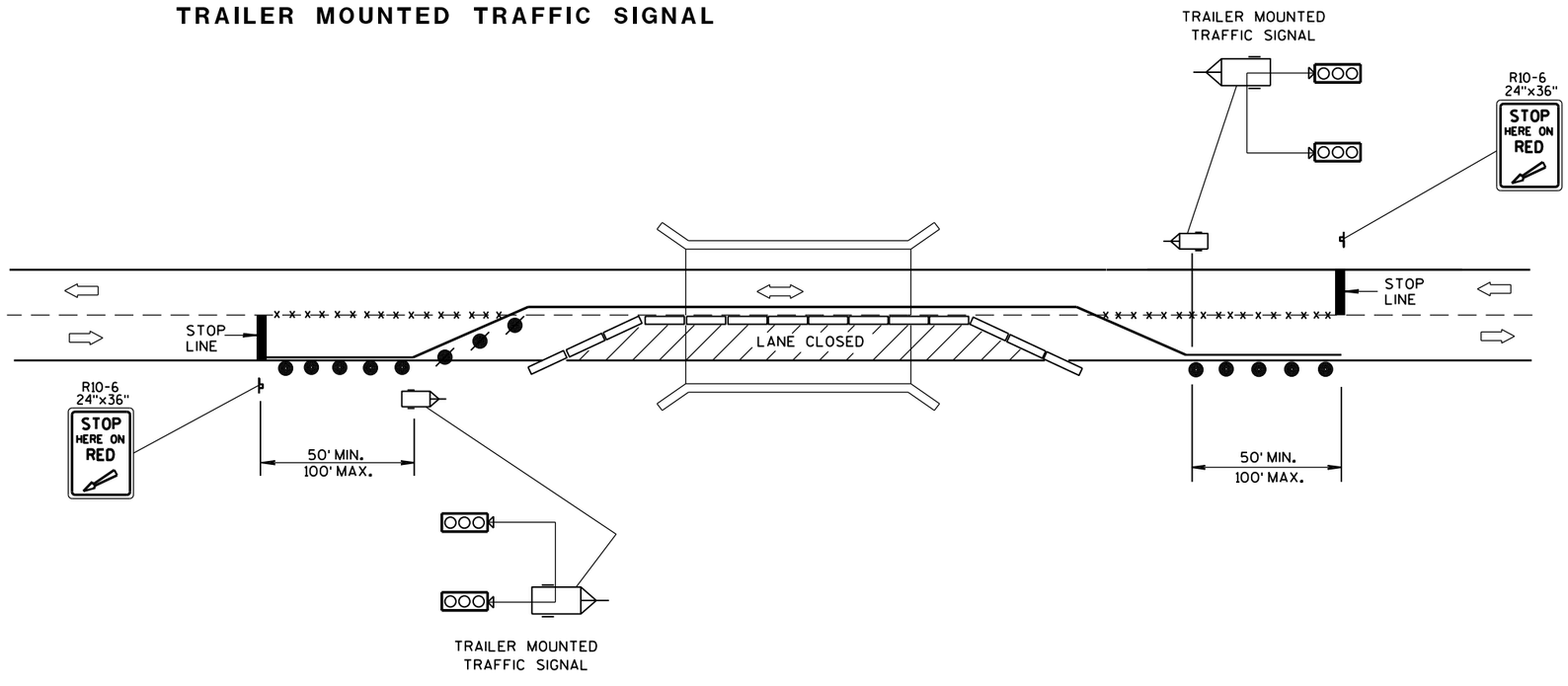


TRAILER MOUNTED TRAFFIC SIGNAL

GENERAL NOTES

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

SIGNING, PAVEMENT MARKING AND LANE CONTROL REQUIREMENTS SHALL CONFORM TO STANDARD DETAIL DRAWING 15 D 33.



TYPICAL TRAILER MOUNTED TRAFFIC SIGNAL LOCATION

LEGEND

- POST MOUNTED SIGN
- REMOVING PAVEMENT MARKING
- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY-BURN)
- TEMPORARY PRECAST CONCRETE BARRIER
- TRAILER MOUNTED TRAFFIC SIGNAL
- DIRECTION OF TRAFFIC FLOW

BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION

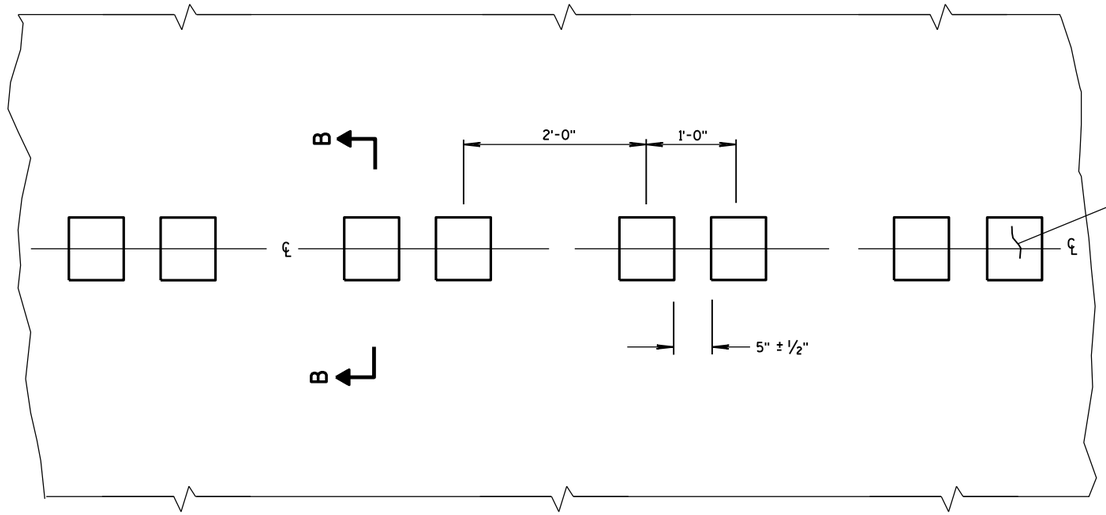
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

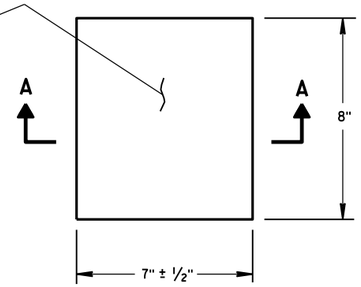
Sept., 2016 — DATE

/S/ Ahmet Demirbilek — STATE ELECTRICAL 252

FHWA



PLAN VIEW
CENTER LINE WITH GROOVES



PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR MILLED RUMBLE STRIP

GENERAL NOTES

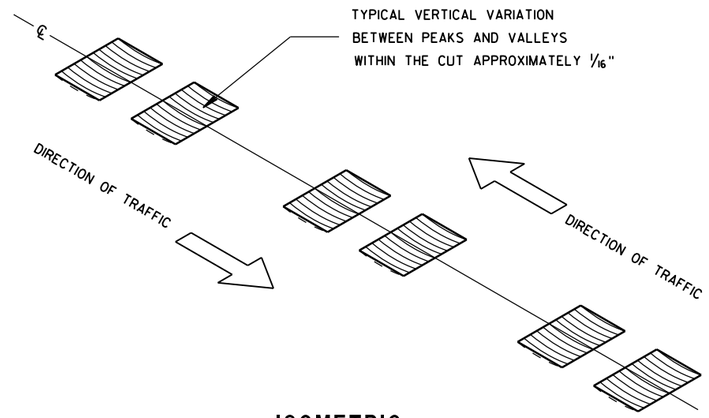
DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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

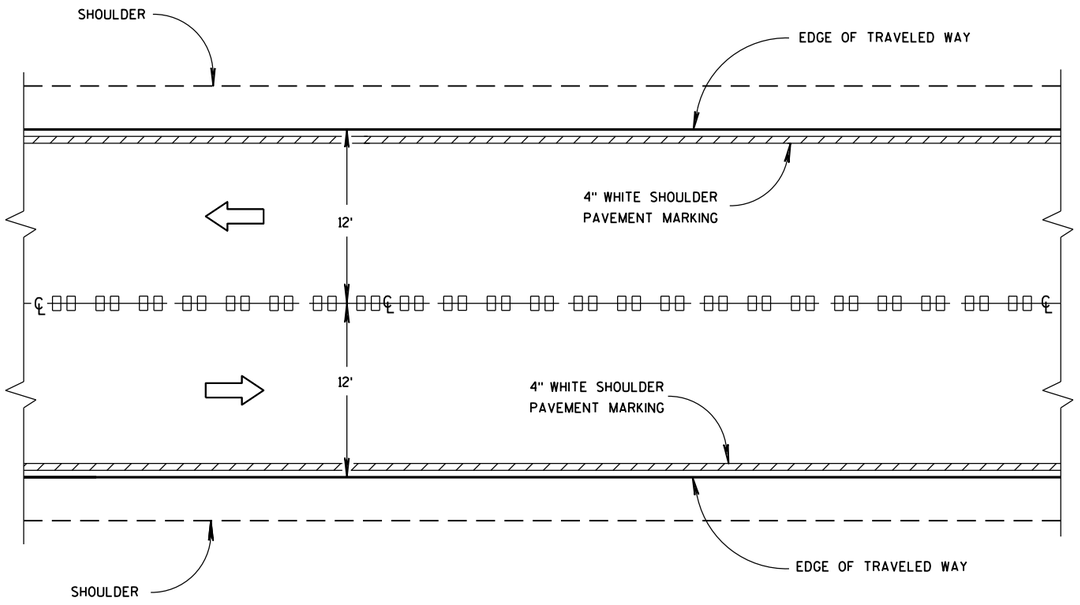
INSTALL PAVEMENT MARKING AFTER THE GROOVES ARE INSTALLED.

SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

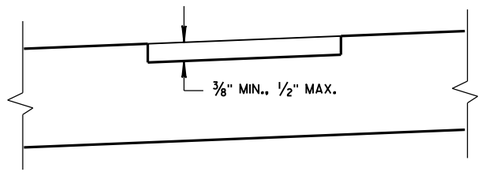
(1) CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



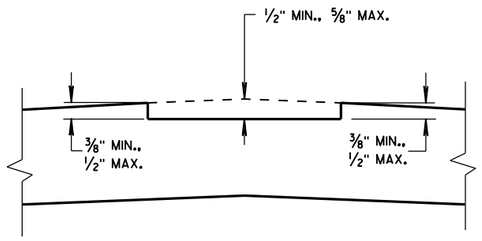
ISOMETRIC



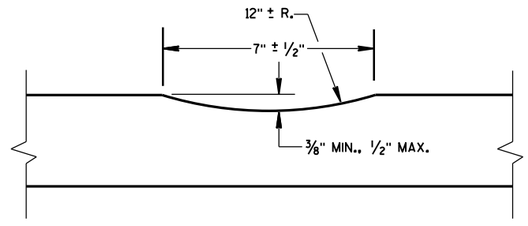
CENTER LINE GROOVES ON TWO-WAY ROADWAYS



SECTION B-B
SUPERELEVATED ROADWAY



SECTION B-B
CROWNED ROADWAY



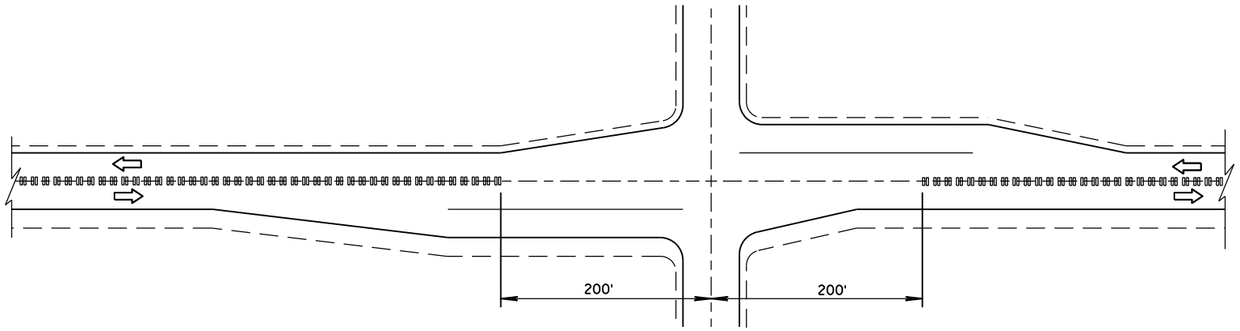
SECTION A-A

2-LANE RURAL
CENTER LINE RUMBLE STRIP, MILLING

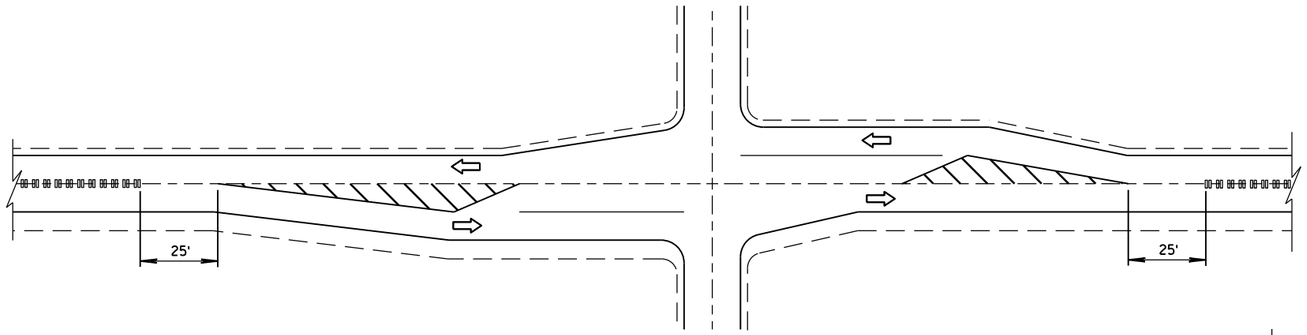
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

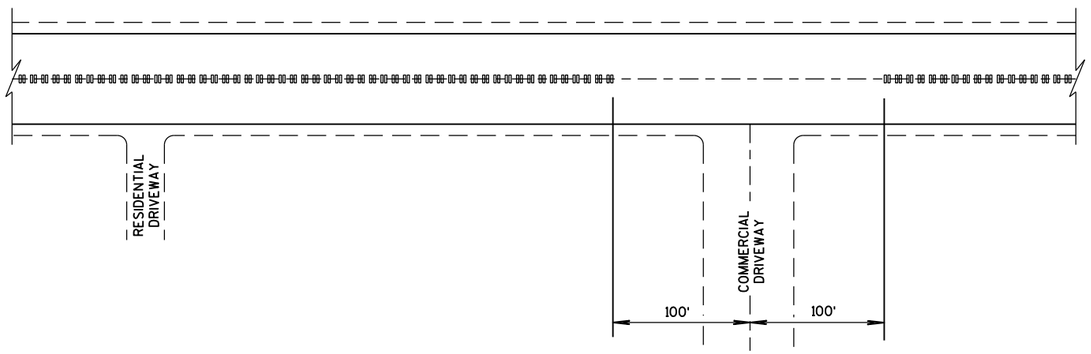
S.D.D. 13 A 11-2a



CENTER LINE GROOVES AT INTERSECTIONS

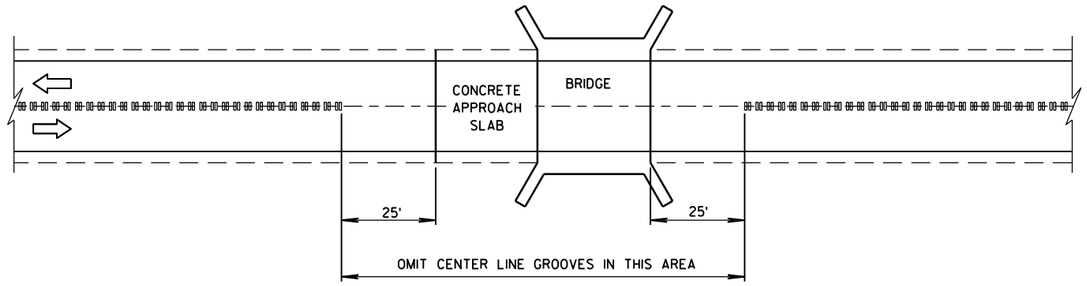


CENTER LINE GROOVES AT INTERSECTIONS
(WITH LEFT TURN LANES)

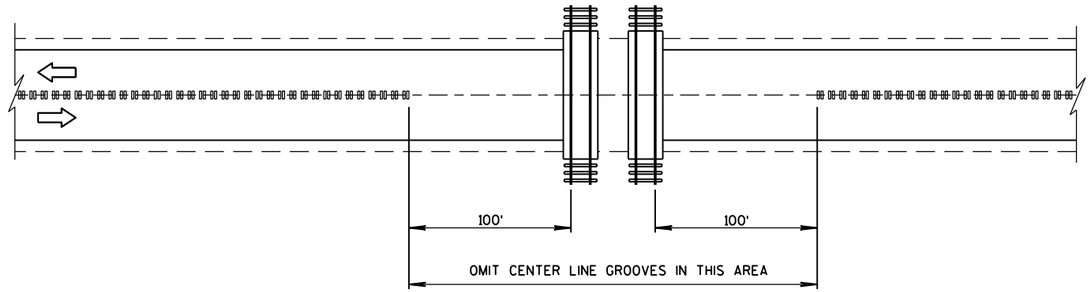


CENTER LINE GROOVES AT DRIVEWAYS (1)

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



CENTER LINE GROOVES AT BRIDGES



CENTER LINE GROOVES AT RAILROADS

6

S.D.D. 13 A 11-2b

6

S.D.D. 13 A 11-2b

2-LANE RURAL
CENTER LINE RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

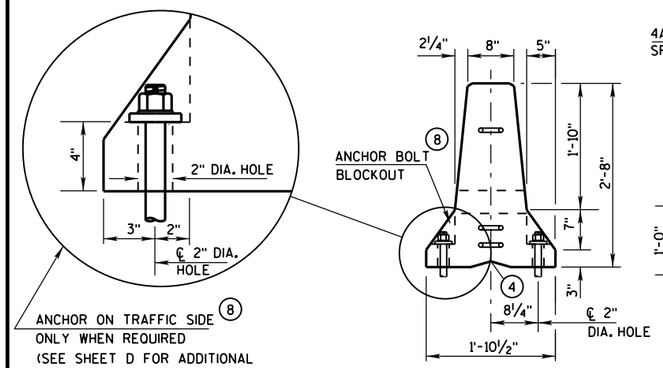
APPROVED

5/15/2013
DATE

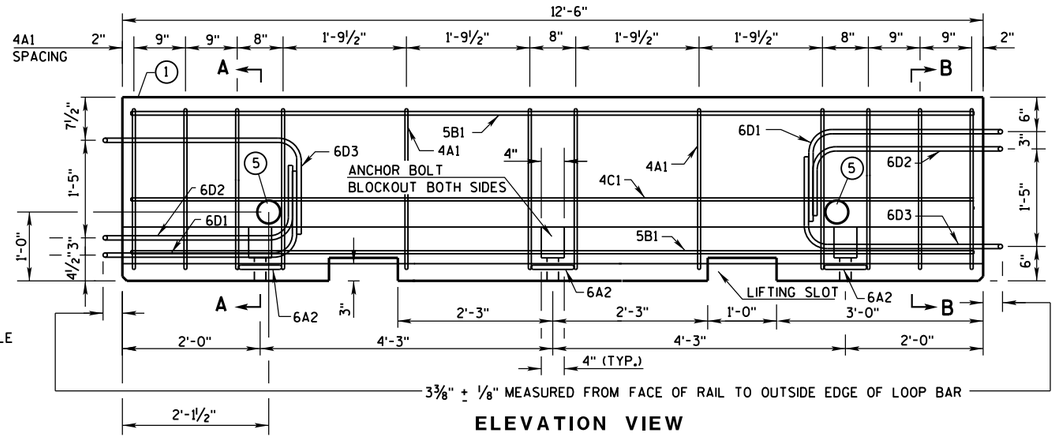
/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER

NT

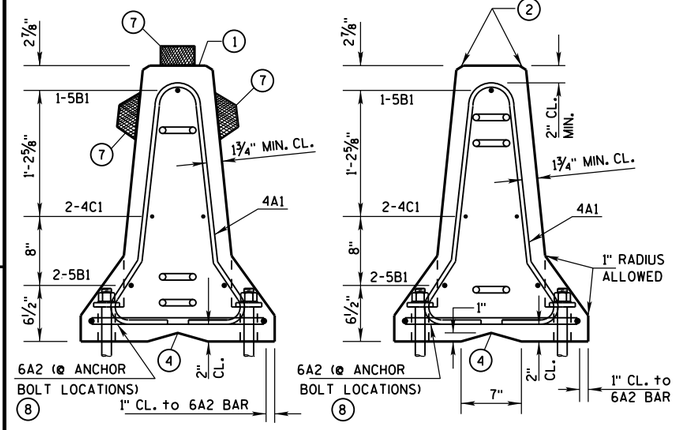
FHWA



END VIEW

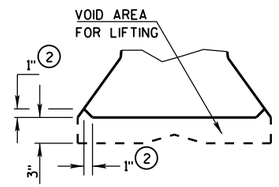


ELEVATION VIEW

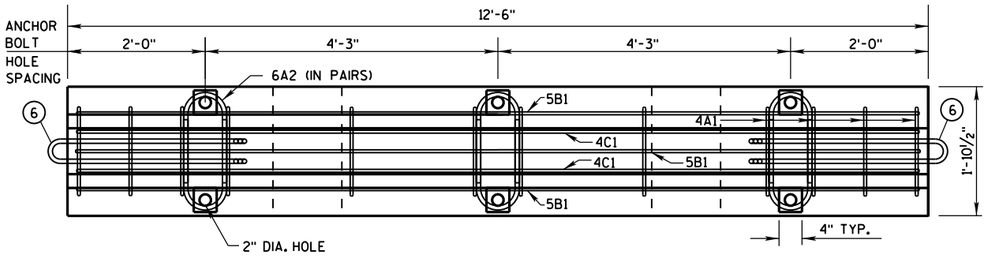


SECTION A-A
(STIRRUP PLACEMENT)

SECTION B-B
(STIRRUP PLACEMENT)

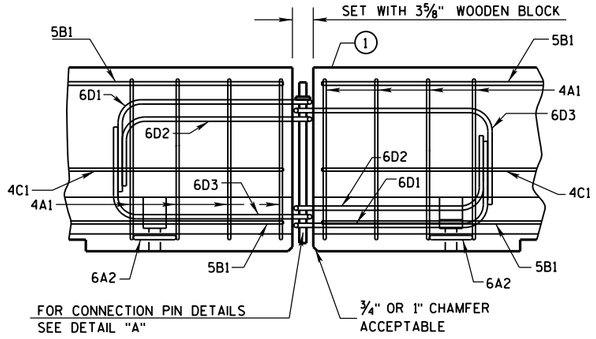


DETAIL "B"
LIFTING SLOT DETAIL

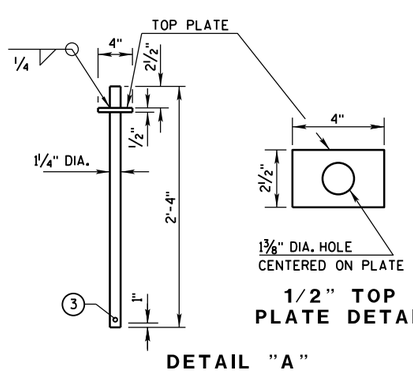


PLAN VIEW

DETAILS OF BARRIER SECTION

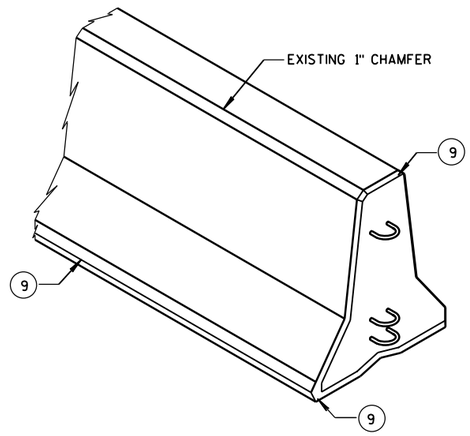


DETAILS OF BARRIER CONNECTION



1/2" TOP PLATE DETAIL

DETAIL "A"
CONNECTION PIN
(A36 STEEL (10.9 LB EACH))



GENERAL NOTES

THESE GENERAL NOTES APPLY TO SHEETS 14B7-15(a) THRU 14B7-15(i).

DO NOT INTERMIX CONCRETE BARRIER TEMPORARY PRCAST, 12'-6" (CBTP12.5) WITH OTHER TEMPORARY CONCRETE BARRIERS.

USE ASTM A-615, GRADE 60, DEFORMED STEEL BARS FOR BARS 4A1, 6A2, 5B1 AND 4C1 IN THE BARRIER SECTION AND FOR 4V1, 4V2, 4V3, 4V4, 4V5, 4V6, 4F1, 4F2 AND 5F3 IN THE BARRIER TAPER SECTION.

LOOP BARS 6D1, 6D2 AND 6D3 SHALL BE ¾" SMOOTH STEEL BARS WITH A MINIMUM YIELD STRENGTH OF 60 KSI, A TENSILE STRENGTH OF NOT LESS THAN 1.25 TIMES THE YIELD STRENGTH BUT A MINIMUM OF 80 KSI, A MINIMUM 14% ELONGATION IN 8 INCHES AND PASSING A 180 DEGREE BEND TEST USING A 3-½" PIN BEND DIAMETER FOR BEND TESTS. THE LOOPS SHALL BE INSTALLED WITHIN ⅛" OF THE PLAN DIMENSION.

CONSTRUCT LIFTING SLOTS AS SPECIFIED ON THE PLANS TO FACILITATE THE DRAINAGE OF WATER AFTER INSTALLATION.

PLACE BARRIER ON A PAVED SURFACE. REMOVE ALL LOOSE DIRT AND SAND FROM THE ROADWAY SURFACE PRIOR TO PLACEMENT OF THE BARRIER.

INSTALL MECHANICAL OR ADHESIVE ANCHORS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MANUFACTURER'S INFORMATION TO PROJECT ENGINEER.

(1) MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
- a. TYPE: WI CBTP
- b. MANUFACTURER
- c. DATE MANUFACTURED (MONTH AND YEAR)

(2) 1" CHAMFER TO PREVENT SPALLING.

(3) A ⅜" HOLE IN THE CONNECTION PIN, AT THE LOCATION SHOWN, IS ACCEPTABLE, BUT NOT REQUIRED..

(4) "V" NOTCH IS OPTIONAL.

(5) THE 4" DIAMETER, 11 GAUGE STEEL, ROUND MECHANICAL TUBING SLEEVE FOR LIFTING (OPTIONAL).

(6) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

(7) USE DELINEATORS CONFORMING TO SECTION 633 OF THE STANDARD SPECIFICATIONS. CONTRACTOR MAY USE ALTERNATE SHAPES AND HOUSING. INSTALL DELINEATORS ACCORDING TO MANUFACTURES INSTRUCTION. INSTALL YELLOW REFLECTORS WHEN BARRIER IS LOCATED TO THE LEFT OF TRAFFIC AND WHITE REFLECTORS WHEN BARRIER IS LOCATED TO THE RIGHT OF TRAFFIC. SPACE DELINEATORS A MAXIMUM OF 25 FEET APART. PROVIDE TOP MOUNTED DELINEATORS IN ADDITION TO THE SIDE MOUNTED DELINEATORS ON ALL BARRIER INSTALLATIONS LOCATED ON A CURVED ALIGNMENT LONGER THAN 200 FEET AND ON BARRIERS USED TO SEPARATE OPPOSING TRAFFIC.

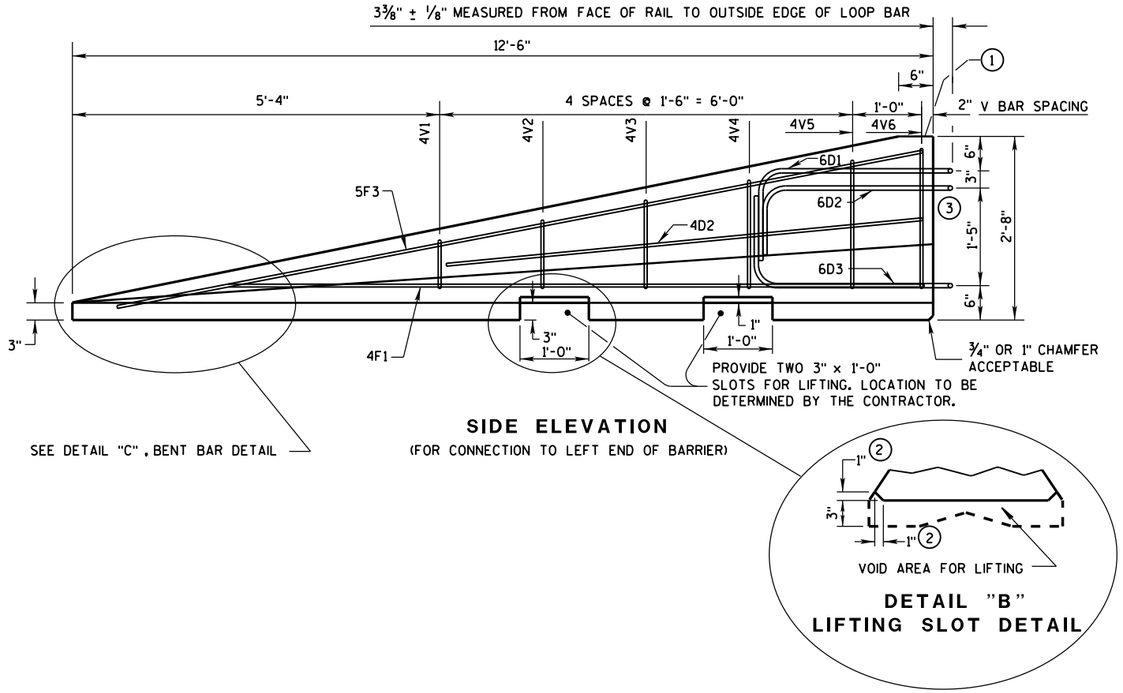
(8) SEE SHEET D FOR HOW TO ANCHOR BARRIER. SEE SHEET E FOR WHEN TO ANCHOR BARRIER.

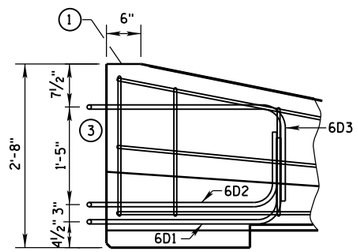
(9) 1" CHAMFER OPTIONAL.

f'c = 4,000 psi

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

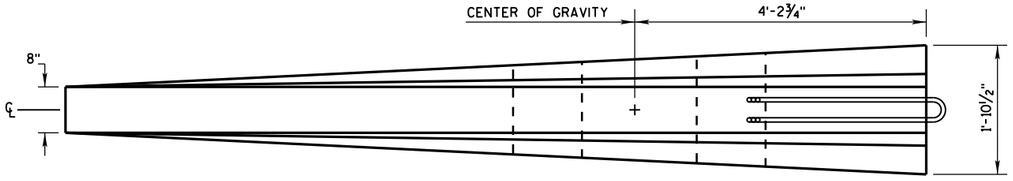
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 255

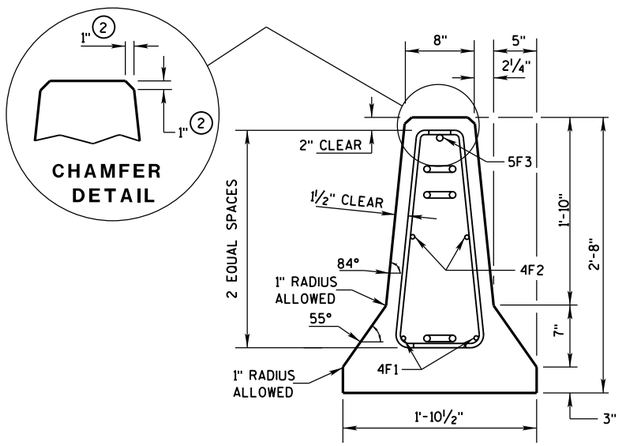


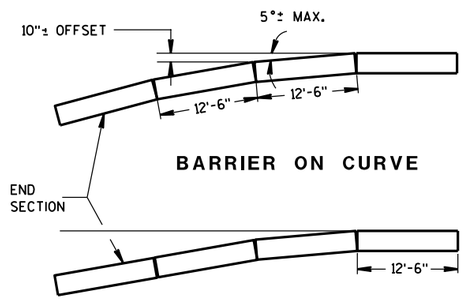


GENERAL NOTES

1. MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
   a. TYPE WICBTP
   b. MANUFACTURER
   c. DATE MANUFACTURED (MONTH AND YEAR)
2. 1" CHAMFER TO PREVENT SPALLING.
3. NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.







POSTED SPEED, (MPH)	FLARE RATE
40 OR LESS	6:1
45 OR GREATER	8:1

DETAILS OF BARRIER TAPER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

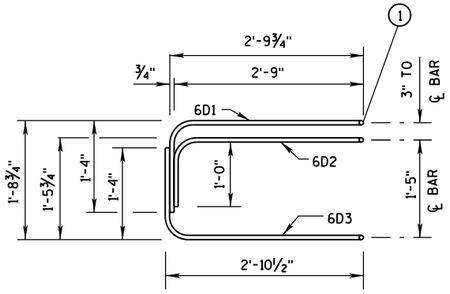
6

S.D.D. 14 B 7-15b

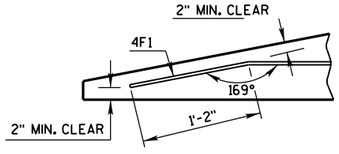
BARRIER TAPER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER TAPER SECTION)

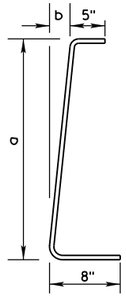
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4V1	4	2	1'-11"
4V2	4	2	2'-2"
4V3	4	2	2'-6"
4V4	4	2	2'-9"
4V5	4	2	3'-2"
4V6	4	2	3'-4"
4F1	4	2	12'-0"
4F2	4	2	7'-6"
5F3	5	1	11'-9"
LOOP ASSEMBLY			
6D1	6	1	8'-5"
6D2	6	1	7'-7"
6D3	6	1	8'-6"



ELEVATION
LOOP BAR ASSEMBLY



DETAIL "C"
BENT BAR DETAIL



BAR	a	b
V1	10"	1"
V2	1'-1"	1¼"
V3	1'-5"	1⅝"
V4	1'-8"	1⅞"
V5	2'-0½"	2⅜"
V6	2'-3"	2¾"

4V BARS
2 AT EACH SIZE REQUIRED
FOR STIRRUP ASSEMBLY

TAPER BARRIER SECTION

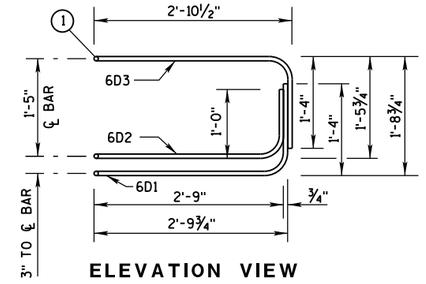
GENERAL NOTES

(1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

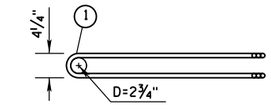
BARRIER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER SECTION)

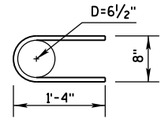
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4A1	4	12	6'-0"
6A2	6	6	2'-11"
5B1	5	3	12'-2"
4C1	4	2	12'-2"
LOOP ASSEMBLY			
6D1	6	2	8'-5"
6D2	6	2	7'-7"
6D3	6	2	8'-6"



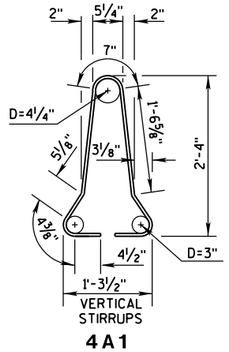
ELEVATION VIEW



PLAN VIEW
LOOP BAR ASSEMBLY
(MARKED END SHOWN, INVERT FOR OTHER END)



6A2



4A1

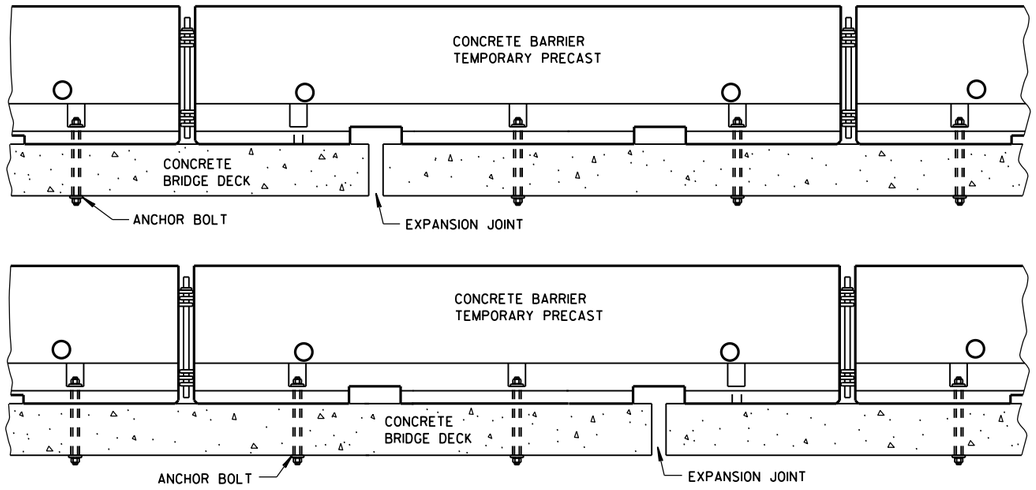
BARRIER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

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S.D.D. 14 B 7-15c



TREATMENT AT BRIDGE DECK EXPANSION JOINTS

(NO SINGLE CONCRETE BARRIER SECTION SHALL BE ANCHORED TO BOTH THE BRIDGE DECK AND THE APPROACH SLAB. ALL ANCHOR BOLT LOCATIONS SHALL BE ANCHORED TO THE DECK IN ACCORDANCE WITH THE DETAIL. NO MORE THAN ONE ANCHOR BOLT SHALL BE ELIMINATED FROM A BARRIER SECTION WHEN SPANNING AN EXPANSION JOINT.)

GENERAL NOTES

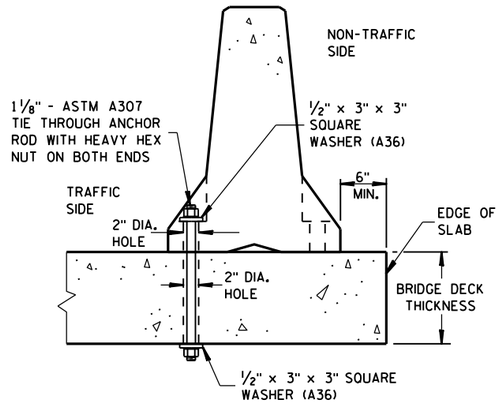
SEE SHEET E FOR WHEN TO ANCHOR. OTHER PARTS OF THE PLAN MAY SHOW ADDITIONAL LOCATIONS REQUIRING ANCHORING.

REMOVE ALL ANCHORS WHEN NO LONGER NEEDED. FILL CONCRETE PAVEMENTS, DECKS AND APPROACH SLABS WITH NON-SHRINK COMMERICAL GROUT FROM THE APPROVED PRODUCT LIST. FILL ASPHALT PAVEMENTS WITH ASTM D6690 TYPE II RUBBERIZED CRACK FILLER.

(1) 1⅛" DIAMENTER A307 THREADED ROD. ½" X 3" X 3" SQUARE PLATE WASHER WITH ASTM A36 STEEL. ASTM A563A HEAVY HEX NUT.

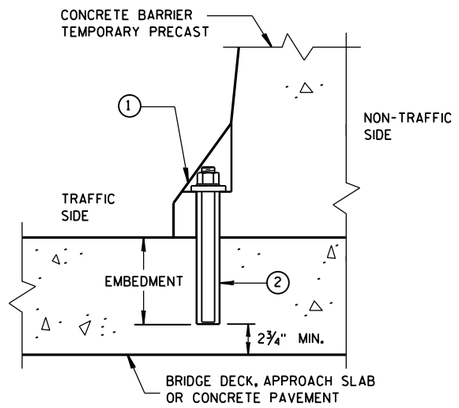
(2) ADHESIVE ANCHORS WITH A MINIMUM BOND STRENGTH OF 1,800 PSI AND 5¼" EMBEDMENT. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.

(3) ASPHALT SURFACE SHOWN. CONTRACTOR MAY DRILL THROUGH CONCRETE PAVEMENT AND THAN DRIVE ASPHALT ANCHOR PIN.



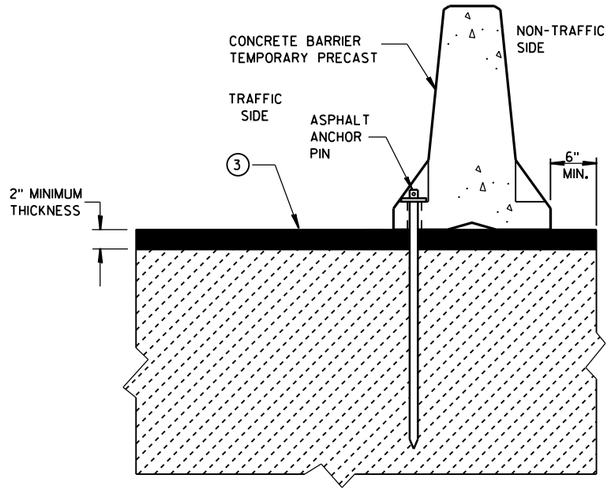
THROUGH BOLTED ANCHOR INSTALLATION ON BRIDGE DECK

(DO NOTUSE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)

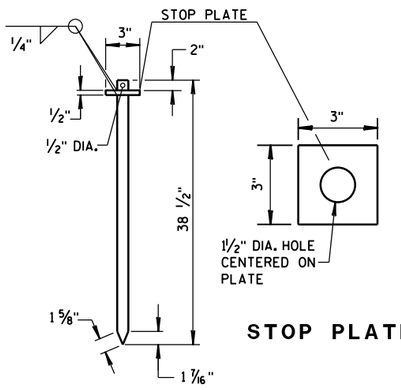


REMOVABLE ADHESIVE ANCHOR INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR CONCRETE PAVEMENT

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)



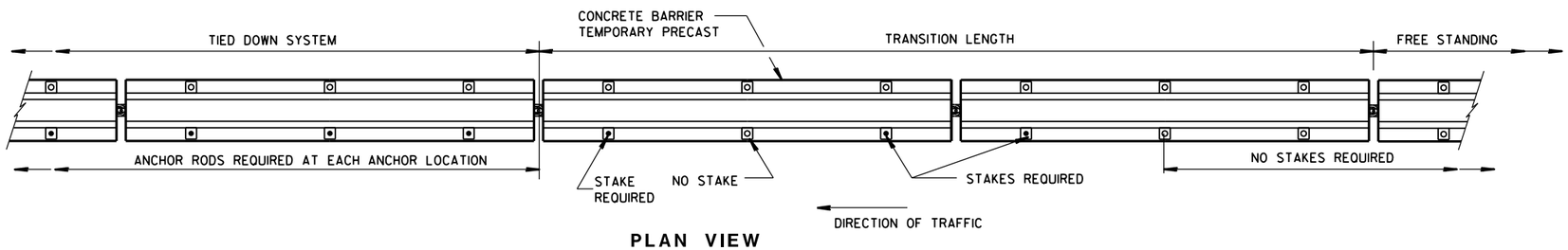
STAKE DOWN INSTALLATION FOR ASPHALTIC SURFACE



STOP PLATE

ASPHALT ANCHOR PIN

(ASTM A36 STEEL)



PLAN VIEW

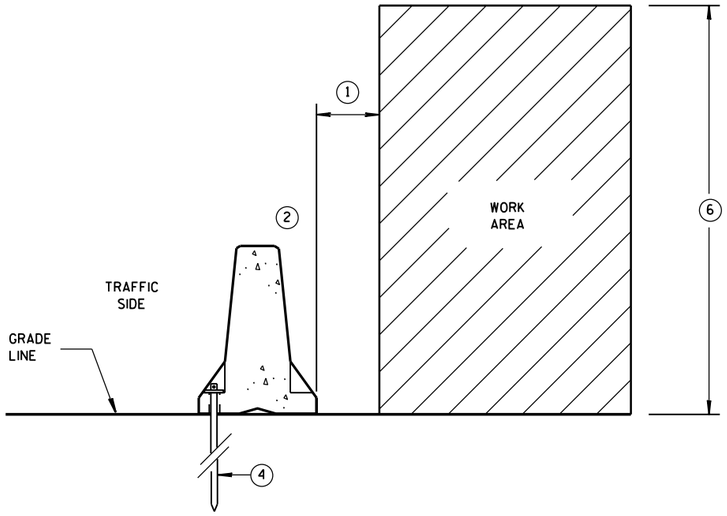
FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY. IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN.)

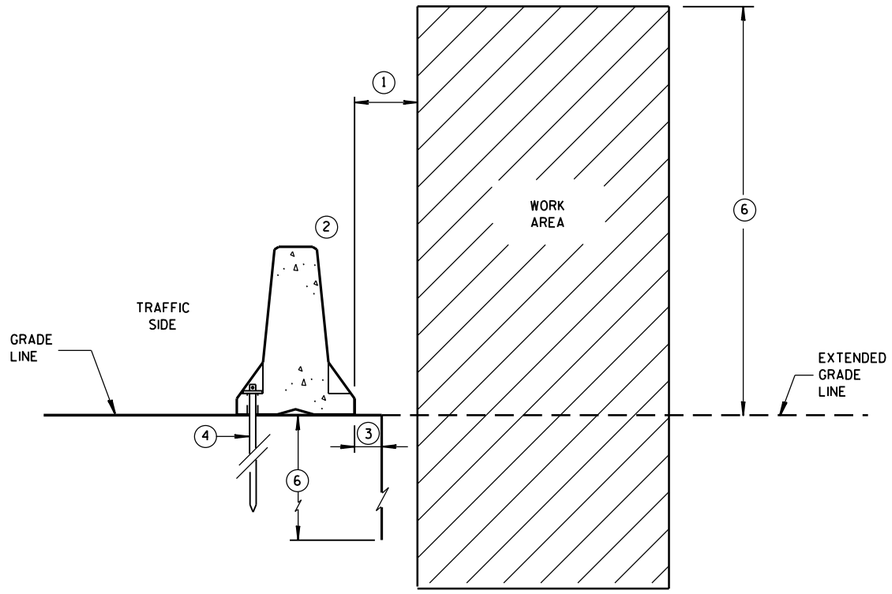
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 14 B 7-15d



ANCHORED BARRIER SPACE REQUIREMENTS FOR HAZARDS EXTENDED ABOVE THE GRADE LINE

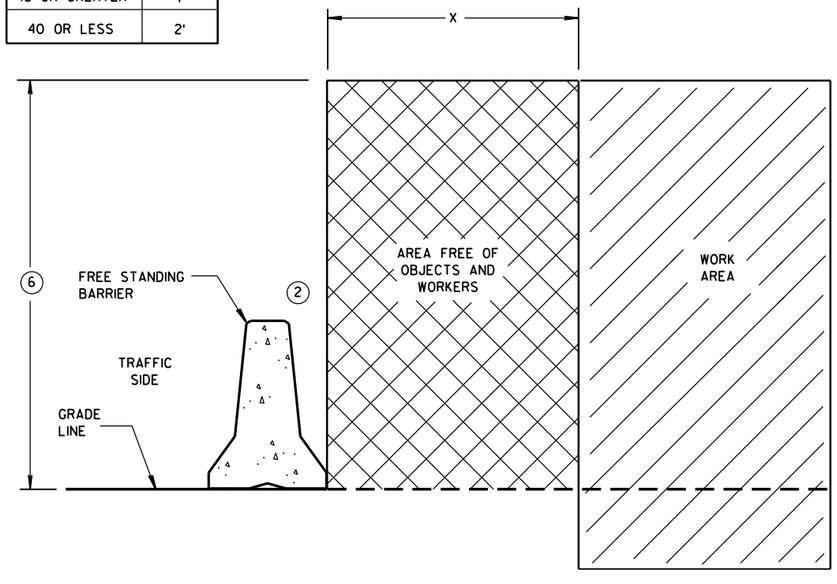


ANCHORED BARRIER SPACE REQUIREMENTS ON VERTICAL DROP OFFS

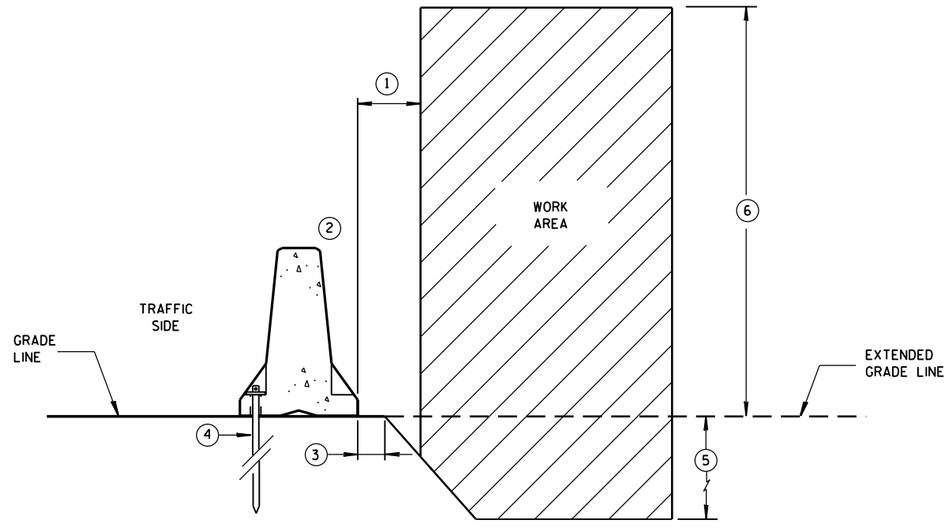
GENERAL NOTES

1. WHEN OBJECTS EXTEND ABOVE THE GRADE, A MINIMUM OF 1 FOOT IS REQUIRED FROM BACK OF BARRIER TO OBJECT. SEE OTHER DETAILS FOR FOR THE MINIMUM OFFSET FROM BACK OF BARRIER TO SLOPES OR VERTICAL DROPS.
2. OBJECTS ARE NOT TO BE PLACED ON, MOUNTED TO, OR LEANED AGAINST THE BARRIER WITHOUT PERMISSION OF THE PROJECT ENGINEER.
3. SEE OTHER DETAIL ON SHEET "D" FOR SPACE REQUIREMENTS.
4. SEE BOLT THROUGH DECK, REMOVABLE ADHESIVE ANCHOR, OR A STAKE DOWN FOR ASPHALTIC SURFACE TREATMENT DETAILS. ASPHALTIC ANCHOR SHOWN.
5. DEPTH OF 3 FEET OR MORE.
6. Y = 6'-6".

POSTED SPEED MPH	X
45 OR GREATER	4'
40 OR LESS	2'



FREE STANDING BARRIER SPACE REQUIREMENTS



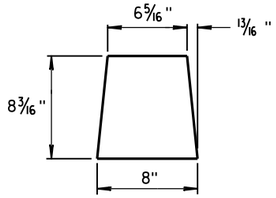
ANCHORED BARRIER SPACE REQUIREMENTS ON SLOPES

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

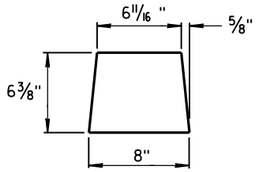
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

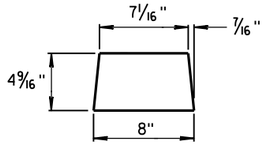
S.D.D. 14 B 7-15e



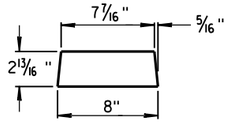
GUSSET 1



GUSSET 2

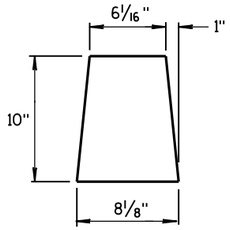


GUSSET 3

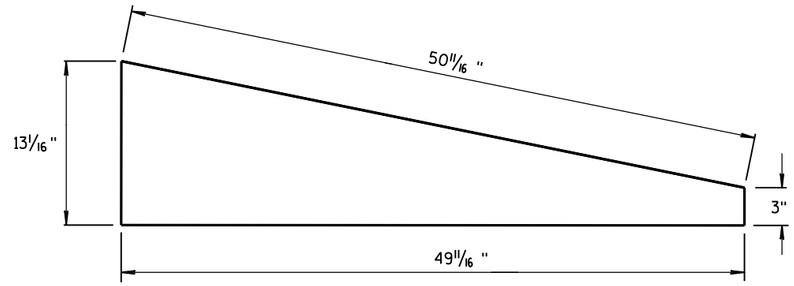


GUSSET 4

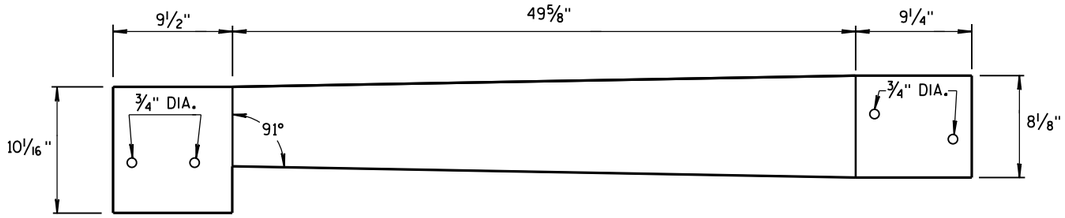
GUSSETS

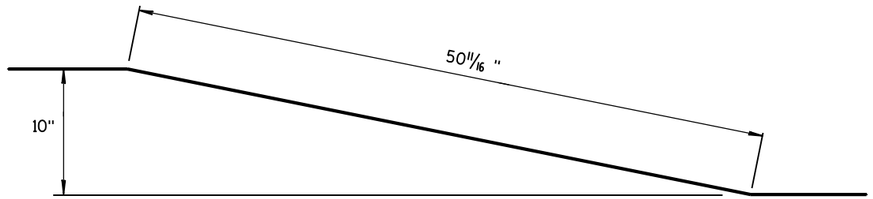


END PLATE



SIDE PLATE

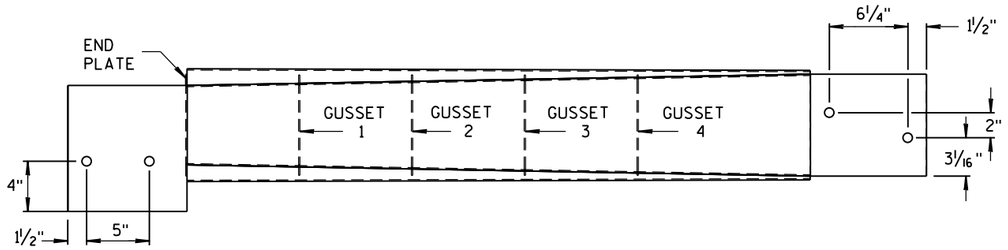


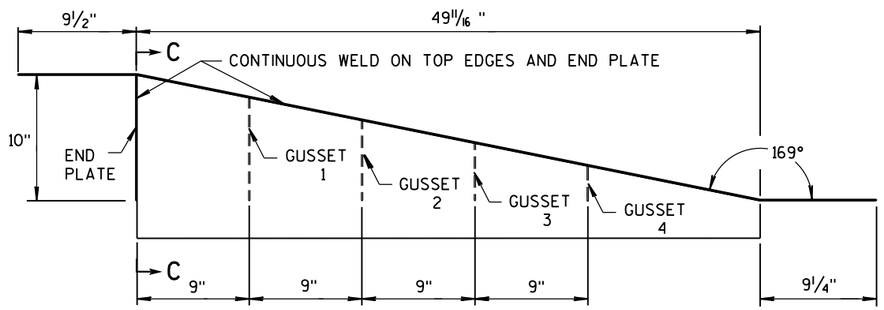


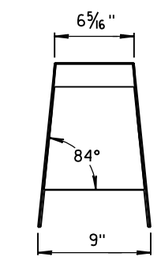
TOP PLATE

SIDE, TOP AND END PLATES FOR CAP FROM TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 GALVANIZED STEEL.







SECTION C-C

NOTES

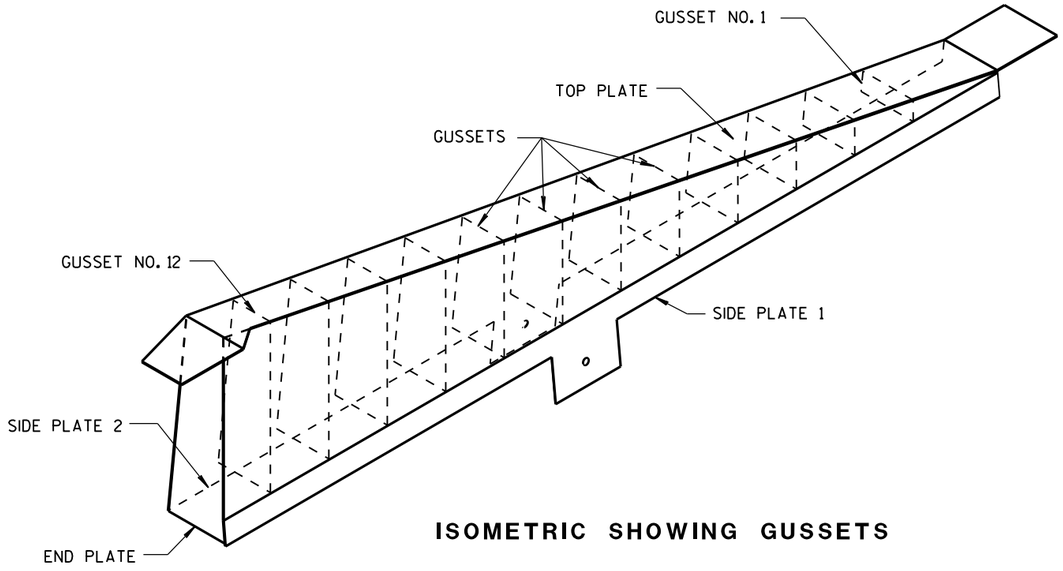
1. FOUR GUSSETS AND END PLATE ARE STITCH WELDED ON THREE SIDES.
2. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE, AND GUSSETS.

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

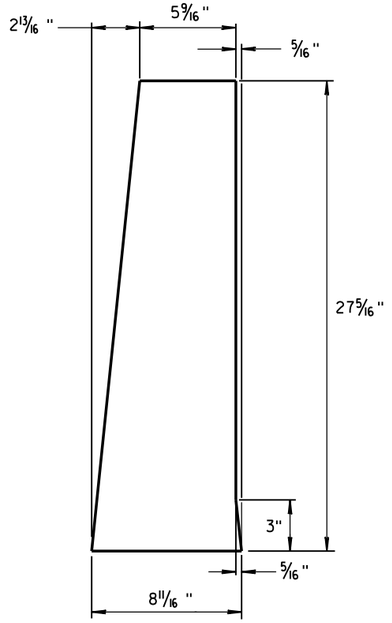
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 14 B 7-15g

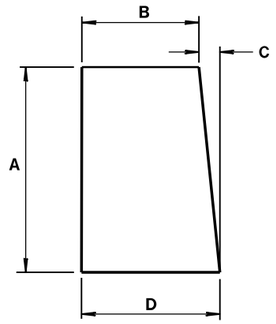


ISOMETRIC SHOWING GUSSETS



END PLATE

1/8" STEEL PLATE



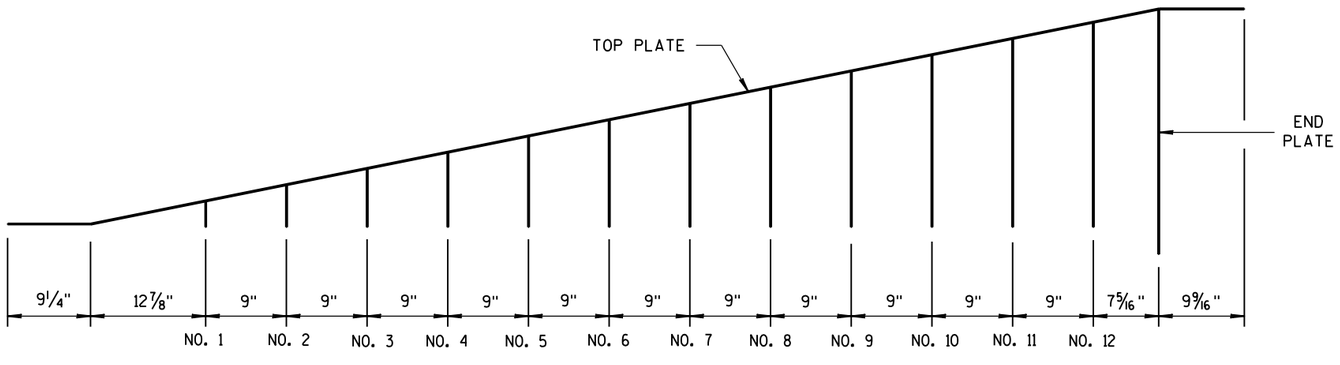
GUSSETS 1 - 12

ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS				
GUSSET NO.	A	B	C	D
1	2 7/8"	7 3/4"	1/4"	8
2	4 11/16 "	7 9/16 "	1/2"	8
3	6 1/2"	7 3/8"	11/16 "	8 1/16 "
4	8 5/16 "	7 3/16 "	7/8"	8 1/16 "
5	10 1/8"	7"	1 1/16 "	8 1/16 "
6	11 15/16 "	6 13/16 "	1 1/4"	8 1/16 "
7	13 3/4"	6 5/8"	1 7/16 "	8 1/16 "
8	15 9/16 "	6 7/16 "	1 9/16 "	8 1/16 "
9	17 3/8"	6 1/4"	1 13/16 "	8 1/16 "
10	19 3/16 "	6 1/16 "	1 15/16 "	8 1/16 "
11	21"	5 7/8"	2 3/16 "	8 1/16 "
12	22 13/16 "	5 11/16 "	2 5/16 "	8 1/16 "

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.



GUSSET LOCATION

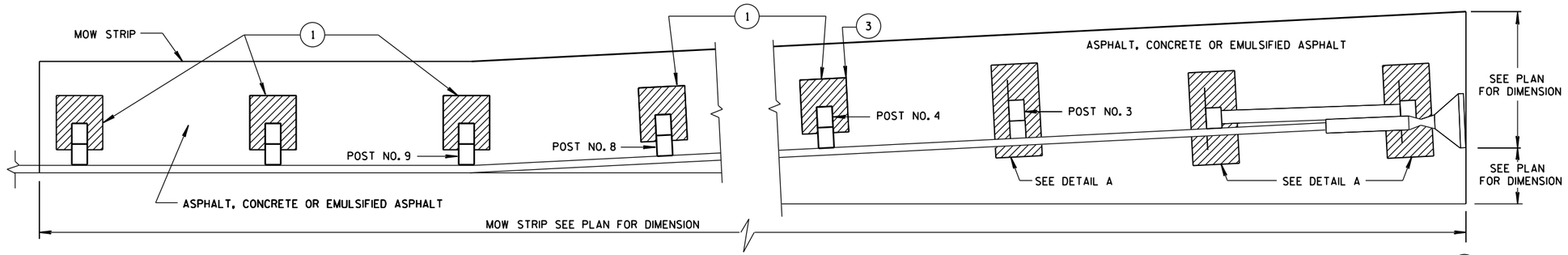
CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

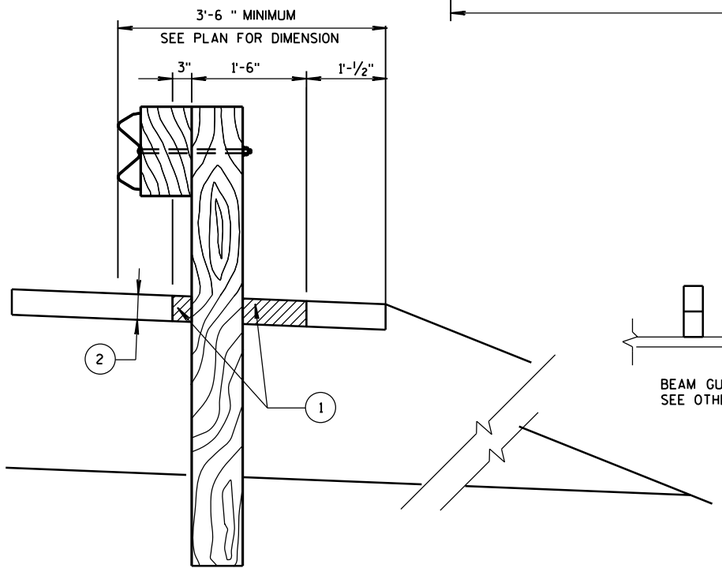
6

S.D.D. 14 B 7-15h

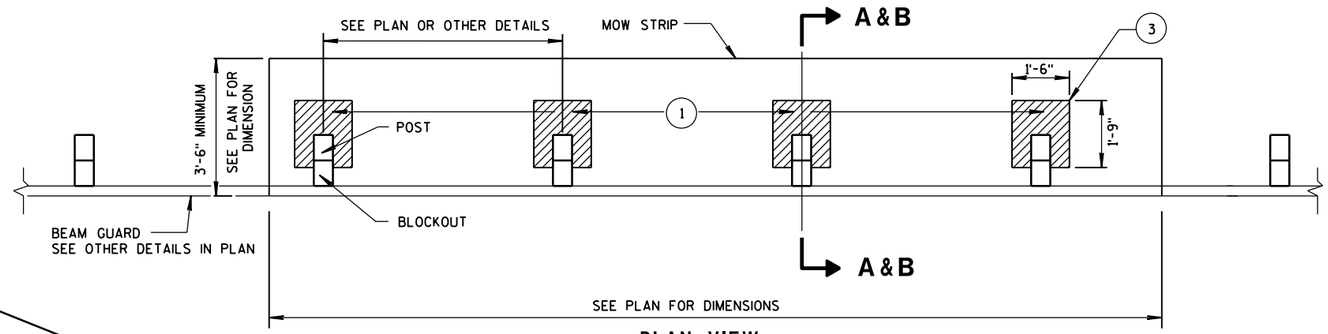


PLAN VIEW

MOW STRIP LAYOUT FOR ENERGY ABORBING TERMINAL

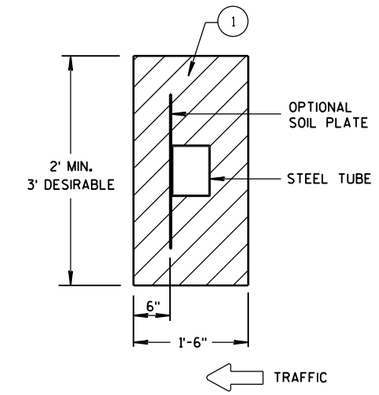


SECTION A-A

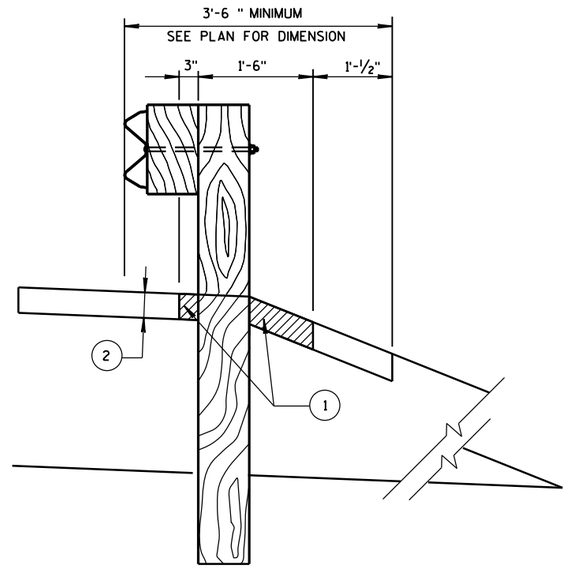


PLAN VIEW

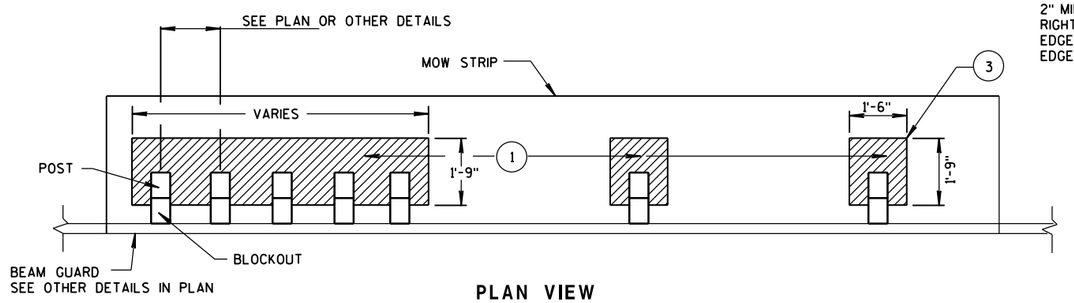
MOW STRIP FOR TYPICAL BLOCKOUT LAYOUT



DETAIL A

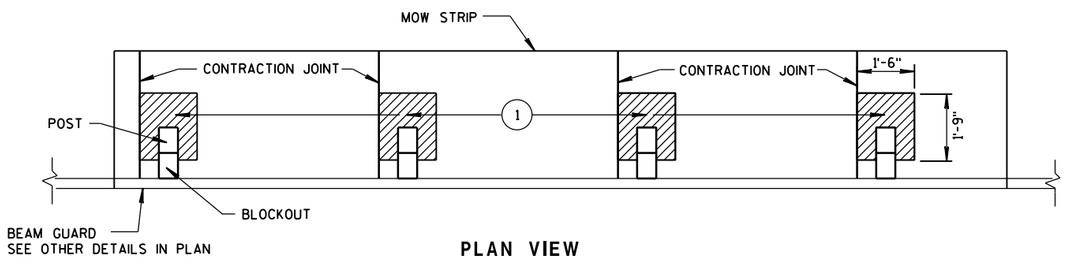


SECTION B-B



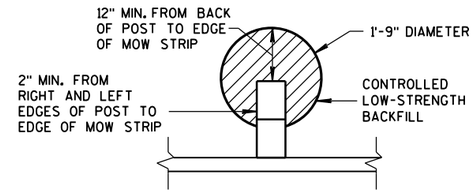
PLAN VIEW

MOW STRIP FOR TIGHT SPACING LAYOUT



PLAN VIEW

JOINT PLACEMENT FOR CONCRETE MOW STRIP



ALTERNATIVE HMA
MOW STRIP DESIGN

(1) CONTROLLED LOW-STRENGTH BACKFILL OR EMULSIFIED ASPHALT.

(2) DEPTH OF MOW STRIP:
ASPHALT - 4"
CONCRETE - 4"
EMULSIFIED ASPHALT - 1" OR LESS

(3) FOR EMULSIFIED ASPHALT MOW STRIP LEAVE OUTS NOT REQUIRED. (TYPICAL FOR ALL POSTS.)

GUARDRAIL MOW STRIP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

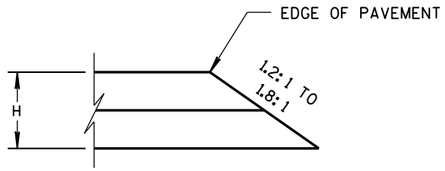
NT

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S.D.D. 14 B 28-3

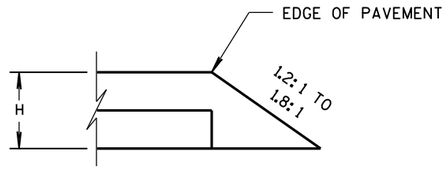
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S.D.D. 14 B 28-3



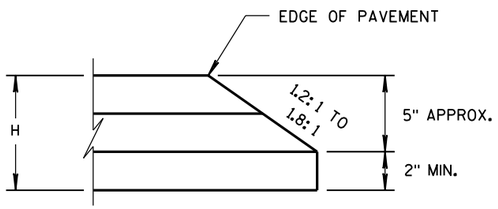
CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS



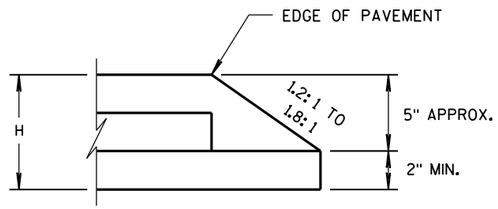
CONSTRUCTED WITH FINAL LAYER

FOR H 5" OR LESS



CONSTRUCTED WITH FINAL TWO LAYERS

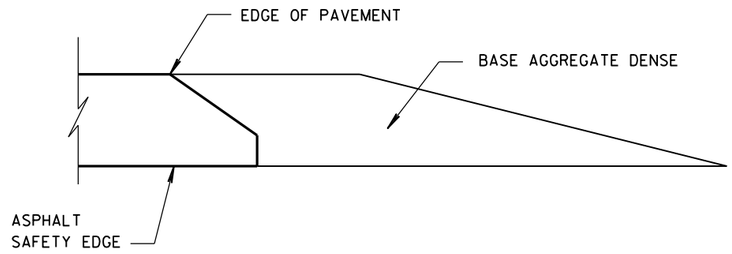
FOR H GREATER THAN 5"



CONSTRUCTED WITH FINAL LAYER

FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

6

6

S.D.D. 14 B 29-1

S.D.D. 14 B 29-1

SAFETY EDGE SM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/2012
DATE

/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER

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.

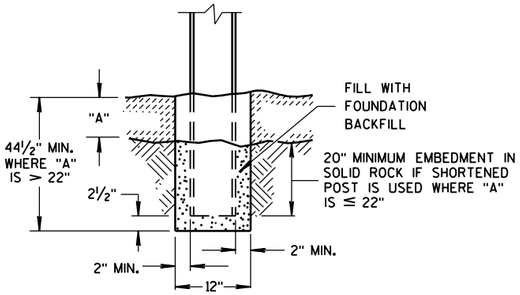
(2) USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

(3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2½ INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

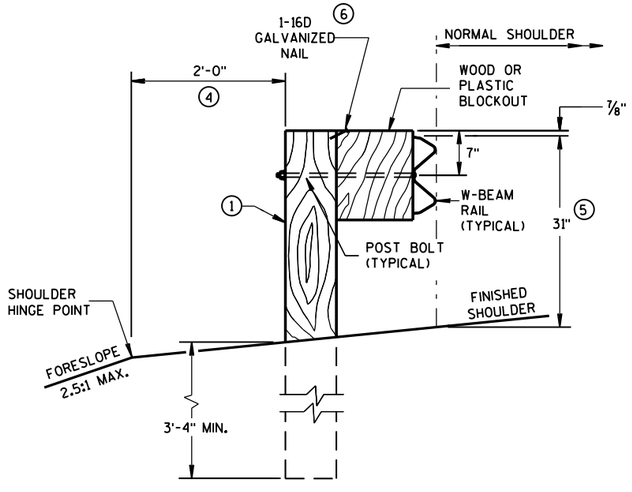
(4) WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

(5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27¾" TO 32".

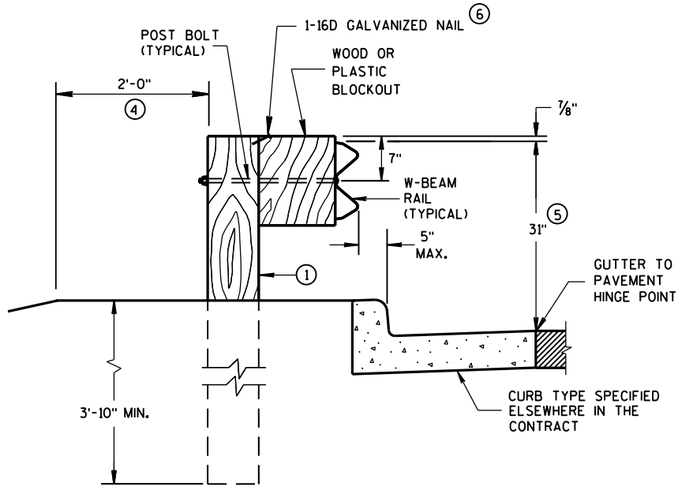
(6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.



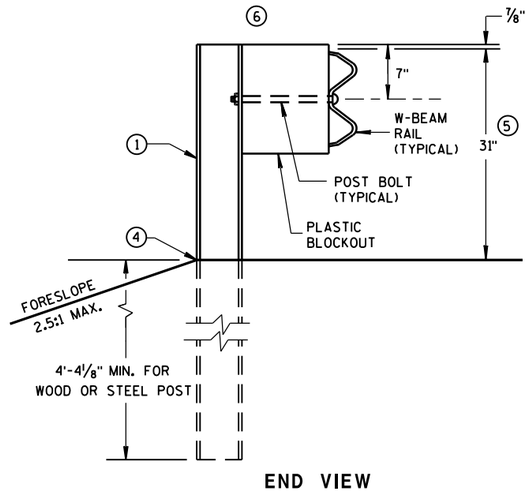
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (3)



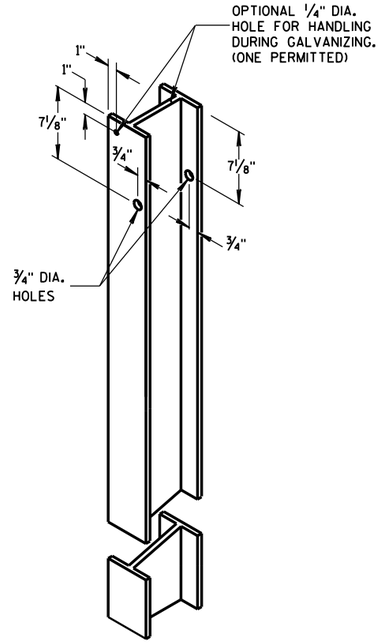
END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



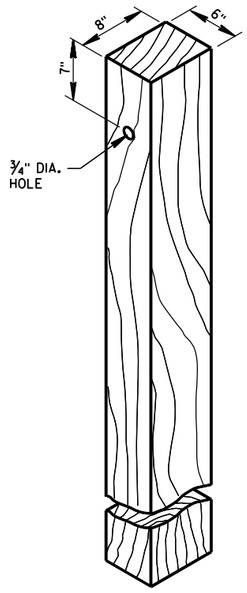
END VIEW
LOCATED ALONG A CURBED ROADWAY



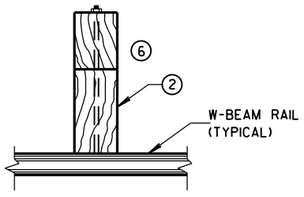
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



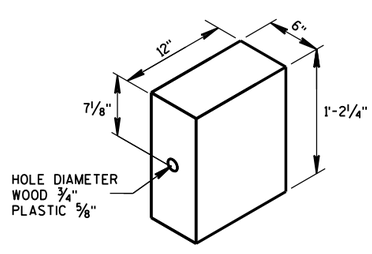
STEEL POST &
HOLE PUNCHING DETAIL
(w6X9) (1)



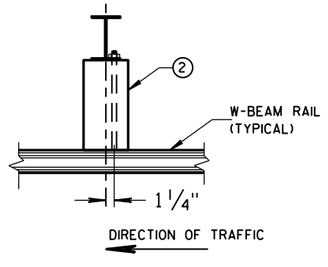
WOOD POST
(6" X 8") NOMINAL (1)



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



WOOD OR
PLASTIC BLOCKOUT (2)

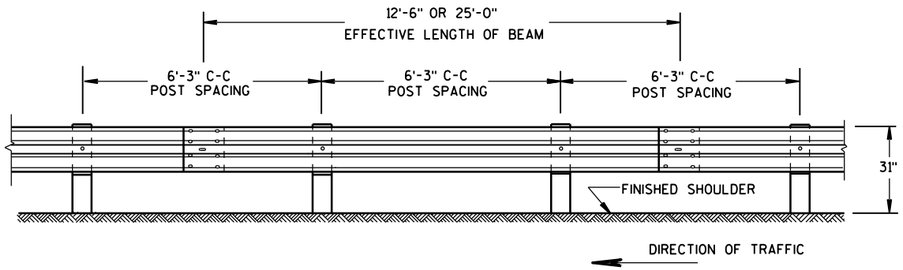


PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

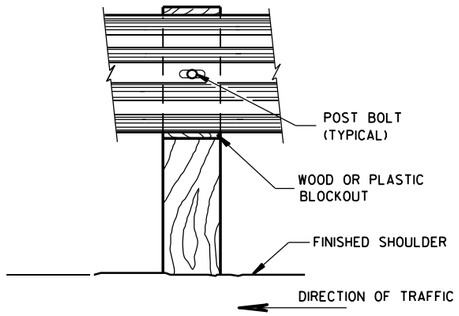
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 14 B 42-5a



FRONT VIEW

POST SPACING STANDARD INSTALLATION



FRONT VIEW AT WOOD POST

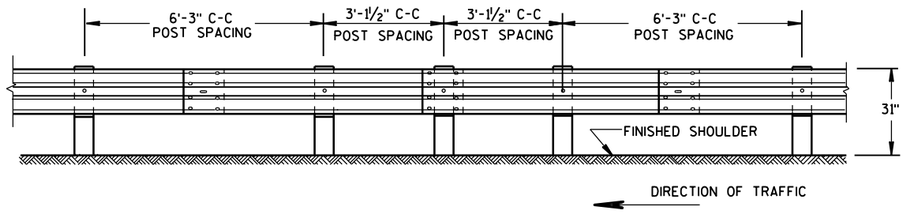
GENERAL NOTES

(8) DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL. RAIL SPLICE LOCATIONS ARE THE ONLY ACCEPTABLE LOCATIONS FOR REFLECTORS.

(11) 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

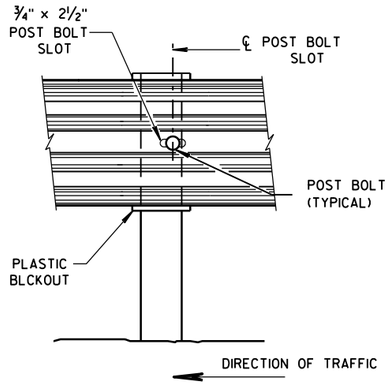
POST BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND 5/8" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

GUARD RAIL SPLICE BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.

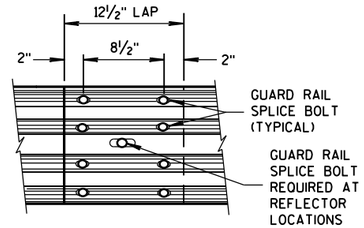


FRONT VIEW

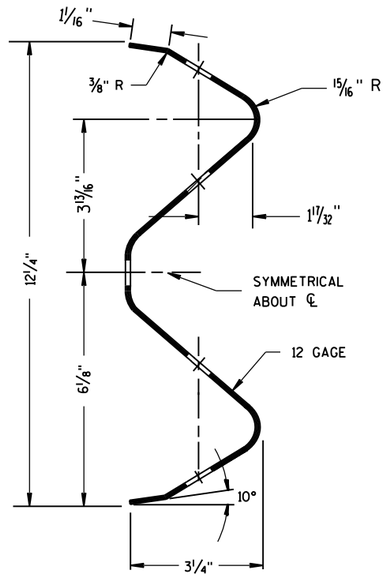
HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)



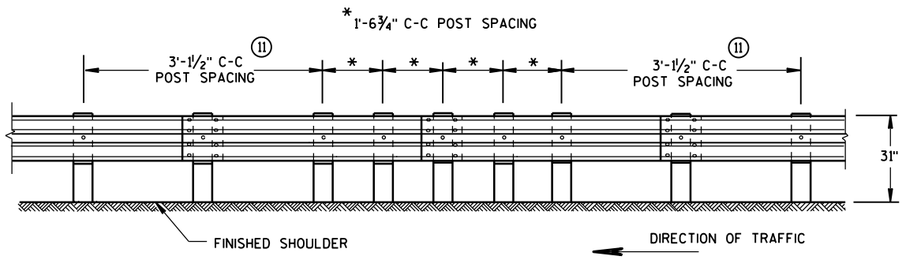
FRONT VIEW AT STEEL POST



FRONT VIEW
MID-SPAN BEAM SPLICE

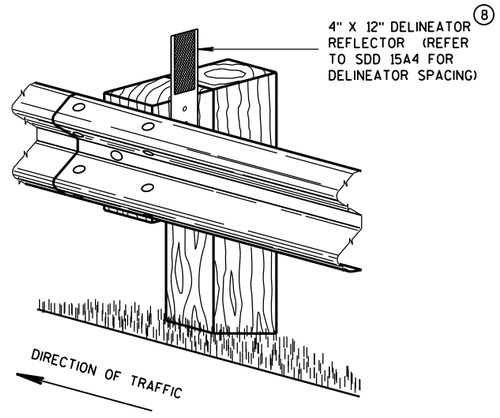


SECTION THRU W-BEAM RAIL



FRONT VIEW

QUARTER POST SPACING (QS)



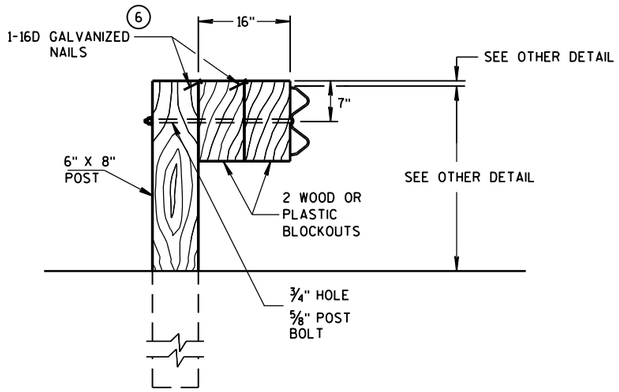
ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

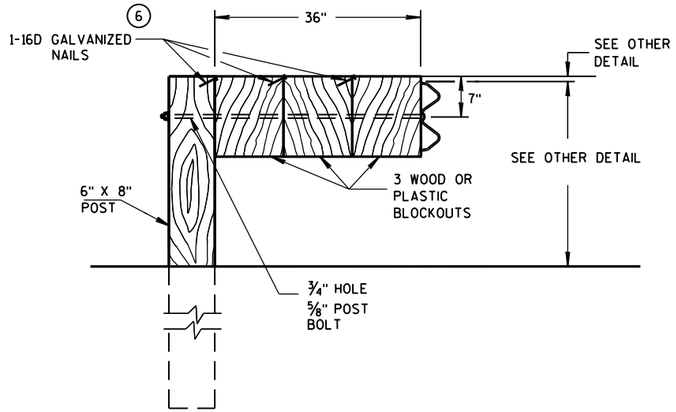
6

S.D.D. 14 B 42-5b



DETAIL FOR 16" BLOCKOUT DEPTH

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

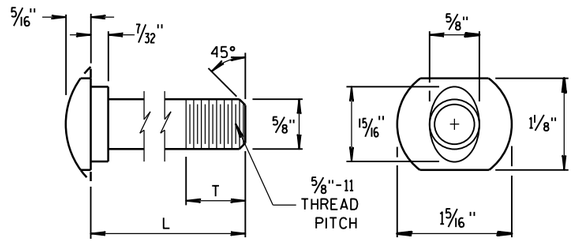


DETAIL FOR 36" BLOCKOUT DEPTH

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

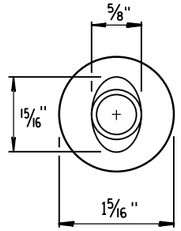
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

NOTE: 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 1/16".
2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

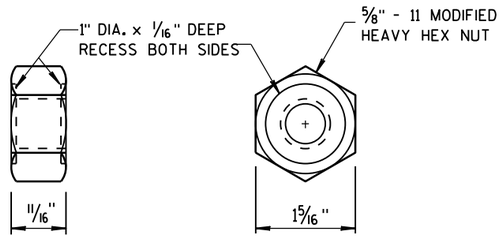


POST BOLT TABLE

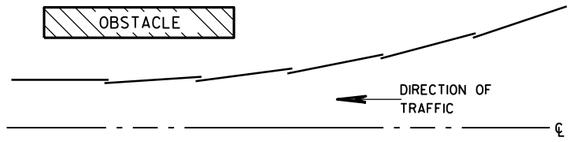
L	T (MIN.)
1¼"	1⅛"
2"	1¾"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



ALTERNATE BOLT HEAD

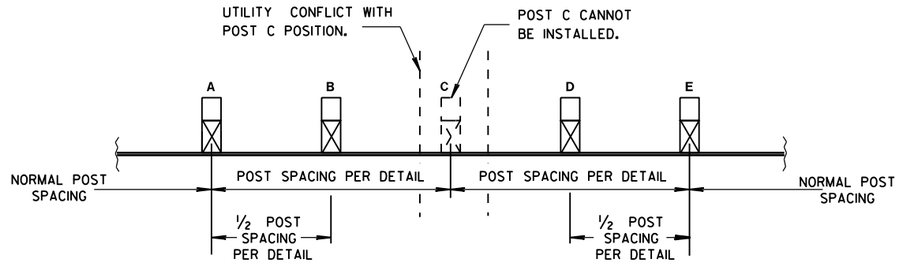


POST BOLT, SPLICE BOLT AND RECESS NUT

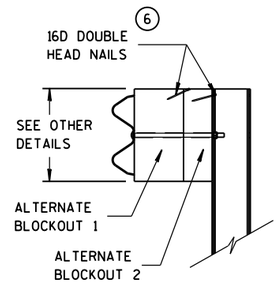


PLAN VIEW

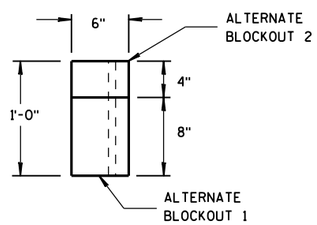
BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



SIDE VIEW



TOP VIEW

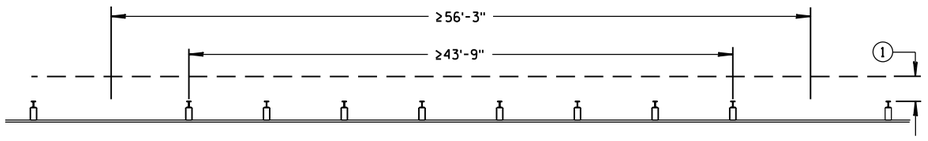
ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

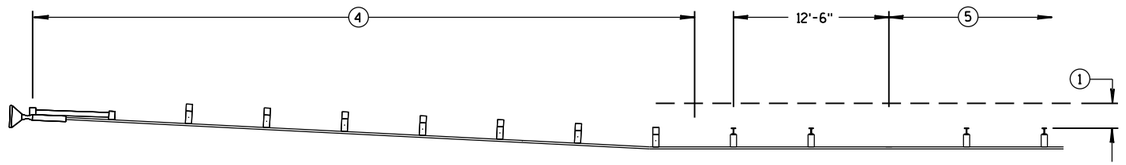
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

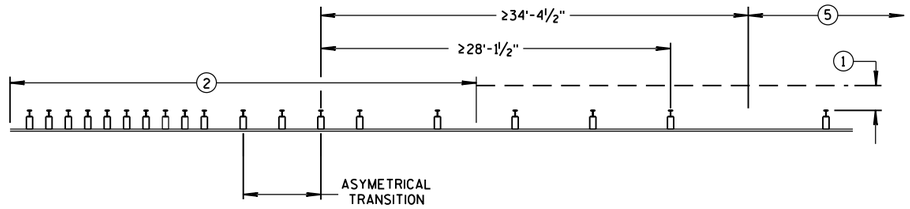
S.D.D. 14 B 42-5c



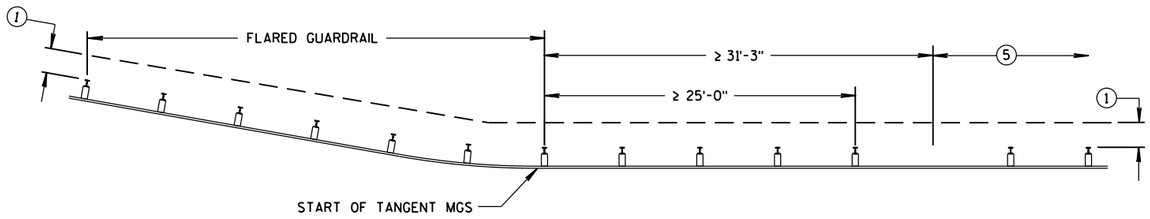
MISSING POST IN NORMAL BEAM GUARD RUN



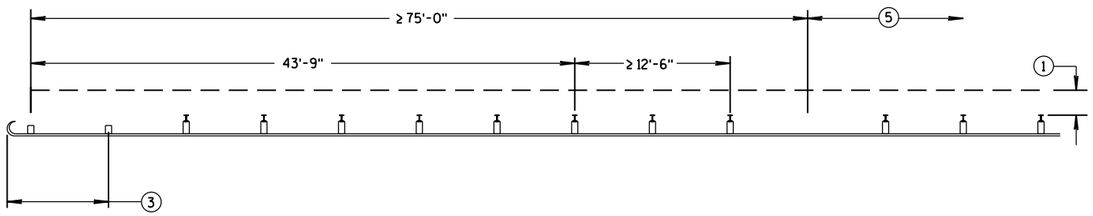
MISSING POST IN NORMAL BEAM GUARD RUN NEAR EAT



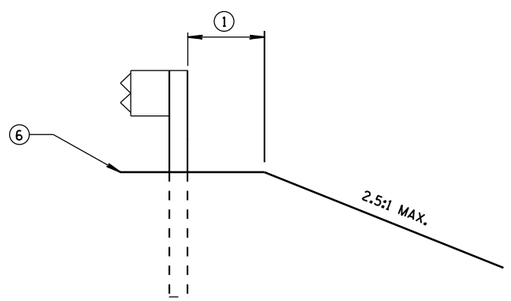
MISSING POST NEAR APPROACH THRIE BEAM TRANSITION



MISSING POST IN NORMAL BEAM GUARD RUN
NEAR FLARED BEAM GUARD



MISSING POST IN NORMAL BEAM GUARD RUN
NEAR TYPE 2 TERMINAL



CROSS SECTION VIEW

(1) MINIMUM OF 2 FEET OF GRADING BEHIND POST.

(2) SEE SDD 14B45 FOR MORE DETAILS.

(3) SEE SDD 14B47 FOR MORE DETAILS.

(4) SEE SDD 14B44 FOR MORE DETAILS.

(5) SEE MISSING POST IN NORMAL BEAM GUARD RUN FOR DISTANCE TO NEXT MISSING POST AND AREA FOR WELL DRAINED, COMPACTED SOILS.

(6) SEE PLAN FOR SHOULDER DESIGN.

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE
FHWA

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

6

S.D.D. 14 B 42-5d

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S.D.D. 14 B 42-5d

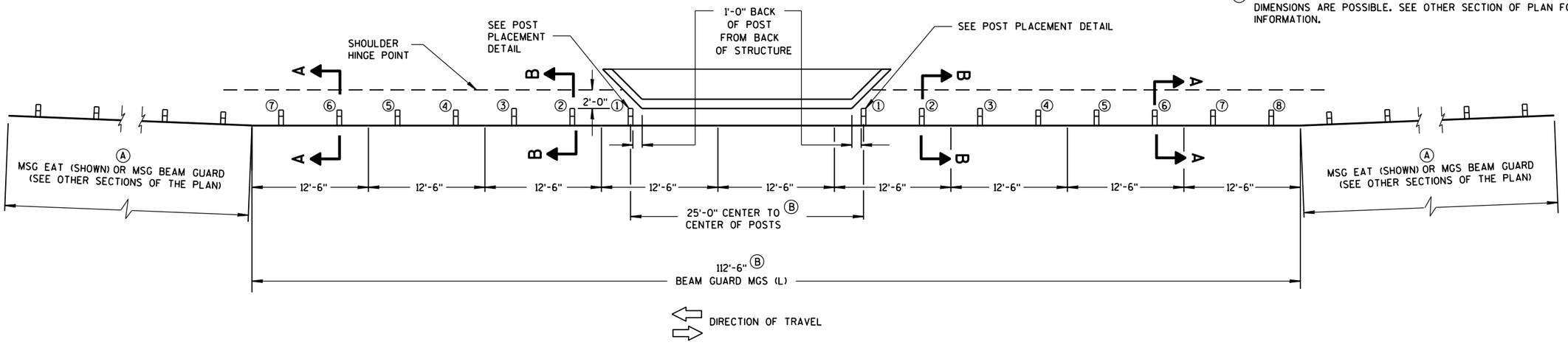
GENERAL NOTES

POSTS 1 THROUGH 3 ARE CRT POSTS.
ALL OTHER POSTS SHALL BE WOOD OR STEEL.

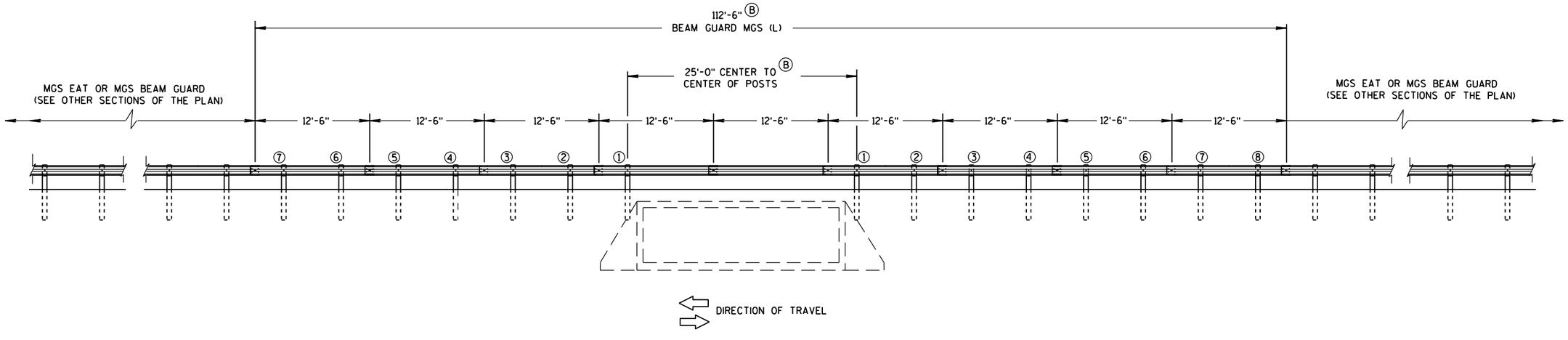
SEE SDD 14 B 42 FOR MORE DETAILS.

(A) FLARE FOR MGS EAT SHOWN. IF INSTALLING MGS NO FLARE NEEDED.

(B) VALUES SHOWN ON DRAWING REPRESENT THE MAXIMUM LENGTH. SHORTER DIMENSIONS ARE POSSIBLE. SEE OTHER SECTION OF PLAN FOR MORE INFORMATION.



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L) TWO-WAY TRAFFIC

MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
STATE OF WISCONSIN DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 43-3a

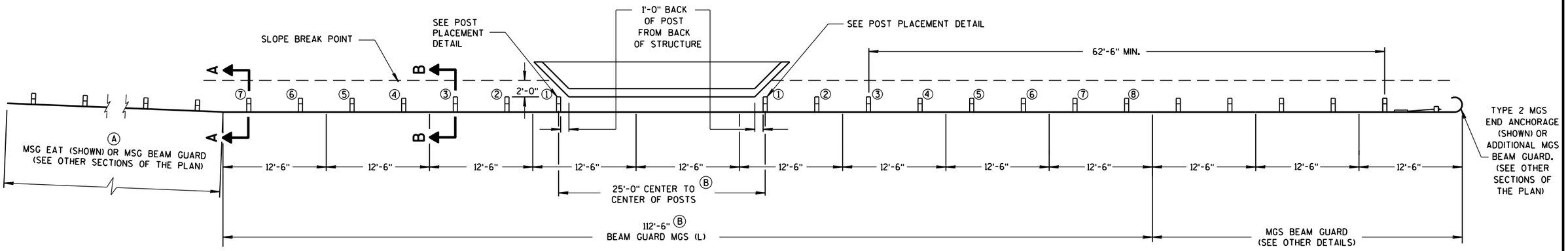
GENERAL NOTES

POSTS 1 THROUGH 3 ARE CRT POSTS.
ALL OTHER POSTS SHALL BE WOOD OR STEEL.

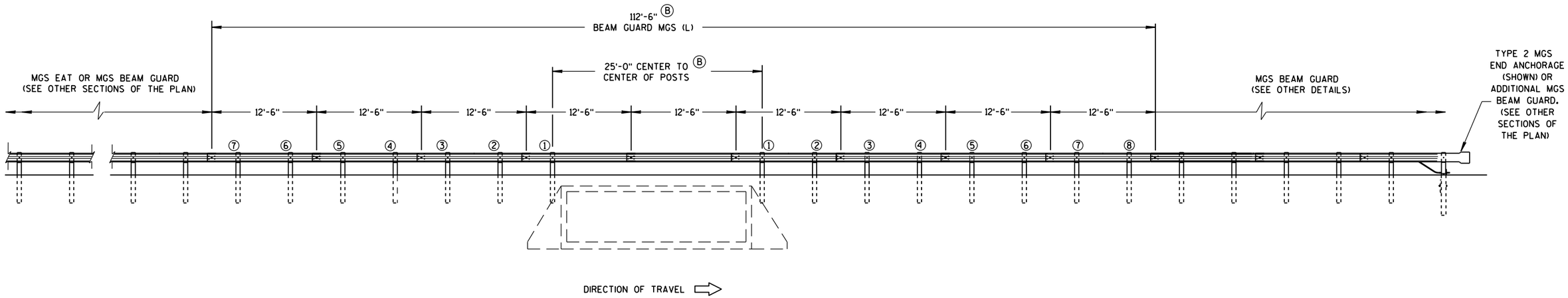
SEE SDD 14 B 42 FOR MORE DETAILS.

(A) FLARE FOR MGS EAT SHOWN. IF INSTALLING MGS NO FLARE NEEDED.

(B) VALUES SHOWN ON DRAWING REPRESENT THE MAXIMUM LENGTH. SHORTER DIMENSIONS ARE POSSIBLE. SEE OTHER SECTION OF PLAN FOR MORE INFORMATION.



PLAN VIEW



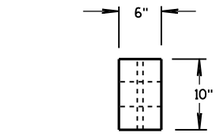
ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L) ONE-WAY TRAFFIC

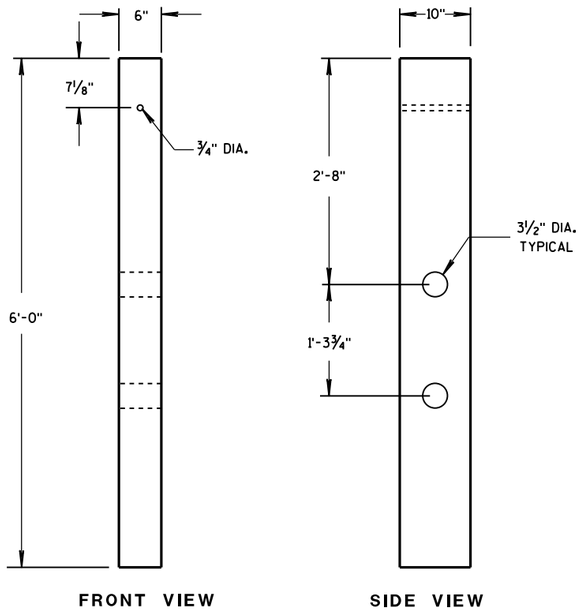
MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPOI	269

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S.D.D. 14 B 43-3b

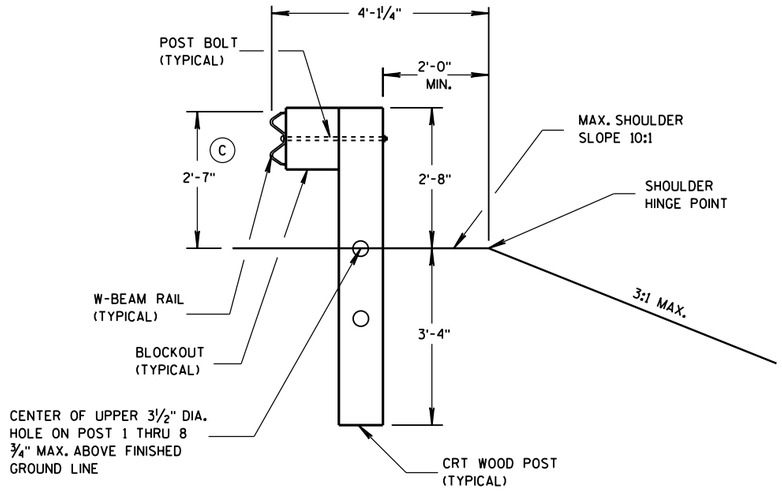


PLAN VIEW



FRONT VIEW SIDE VIEW

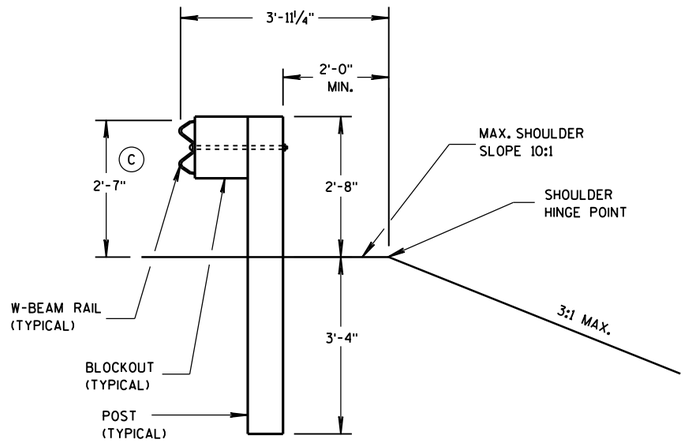
CRT WOOD POST



SECTION B-B

POSTS NO. 1-3

SEE OTHER DETAILS



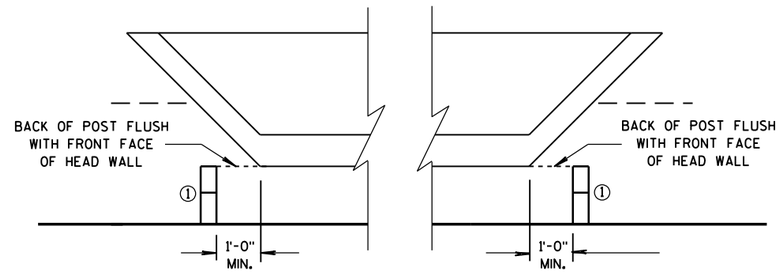
SECTION A-A

POSTS NO. 4-8

SEE OTHER DETAILS

GENERAL NOTES

(C) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".



POST PLACEMENT DETAIL

MIDWEST GUARDRAIL SYSTEM
LONG SPAN MGS (L)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/10/2013
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

FHWA

6

S.D.D. 14 B 43-3c

6

S.D.D. 14 B 43-3c

GENERAL NOTES

(A) THE SLOPE IN THE AREA BOUNDED BY THE 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 MANUFACTURES REQUIRE DIFFERENT PERFORATED W-BEAM RAIL END PANELS. SEE MANUFACTURES INFORMATION.

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

(H) HARDWARE VARIES BETWEEN DIFFERENT MANUFACTURES. SEE MANUFACTURE'S DRAWING FOR INFORMATION.

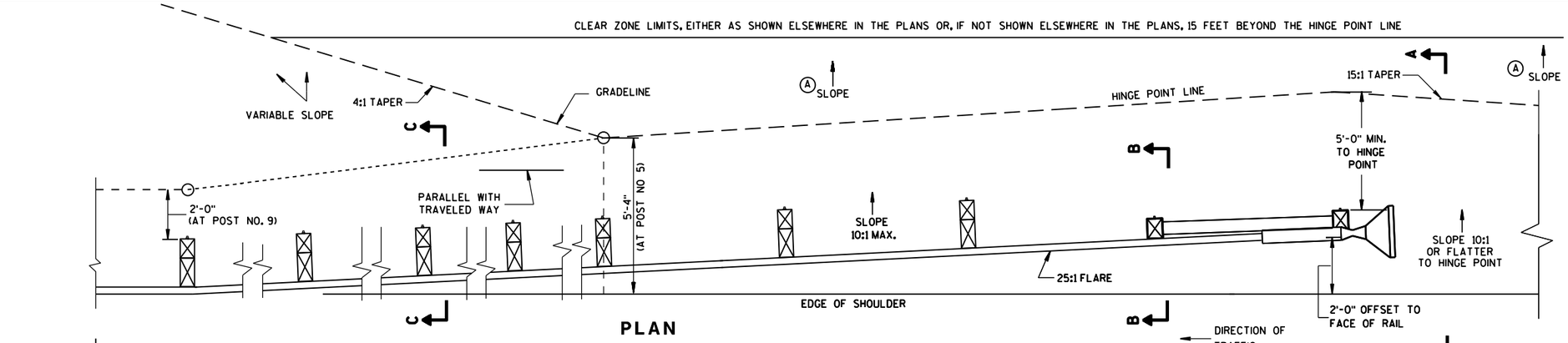
SEE SDD 14B42 FOR MORE INFORMATION.

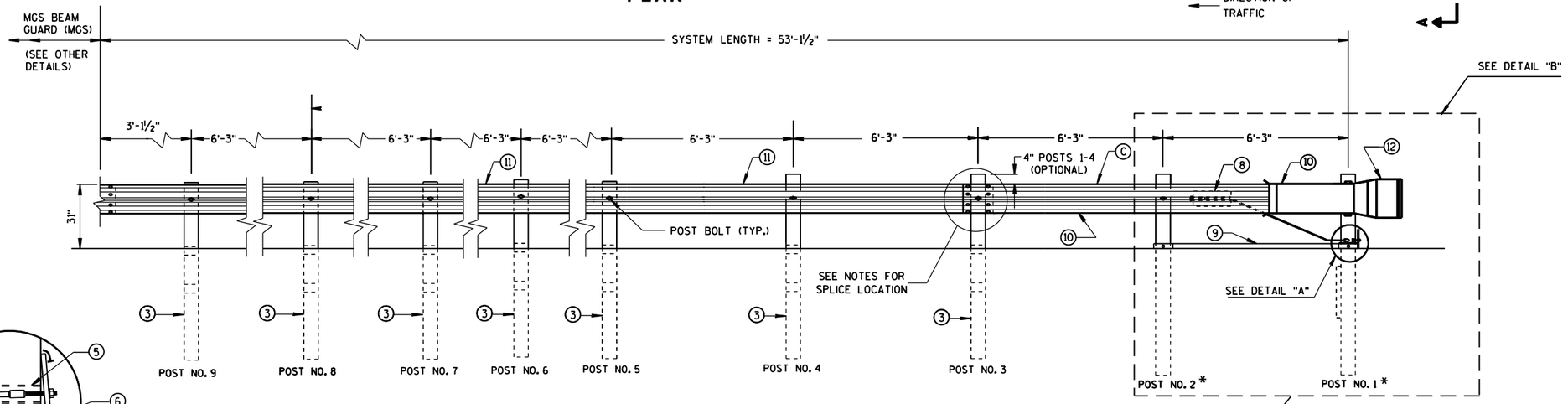
* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

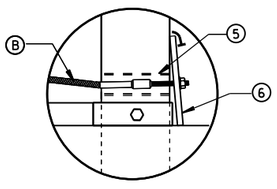
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

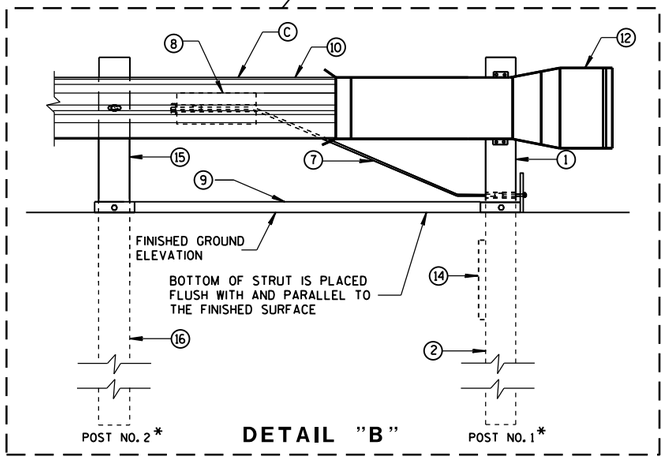
SEE MANUFACTURER'S DRAWING FOR SPLICE LOCATION, HARDWARE DIMENSIONS AND INSTALLATION INSTRUCTIONS.

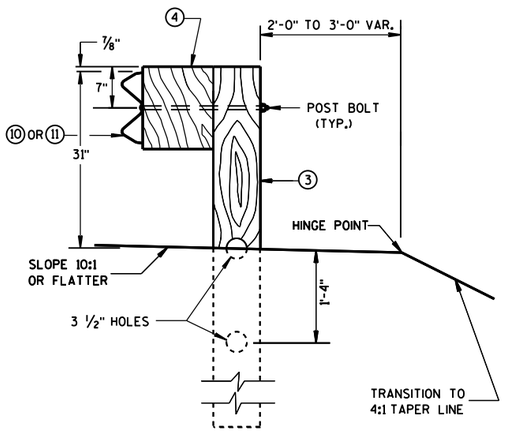
THE CENTER OF THE UPPER 3½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE.

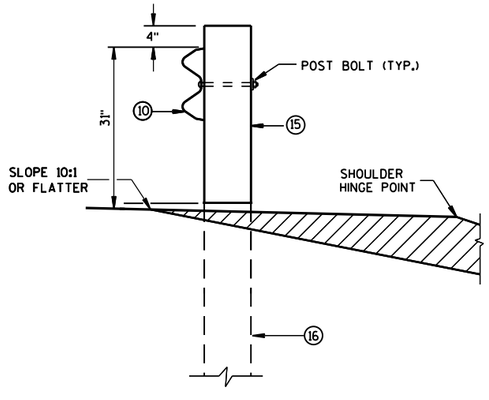


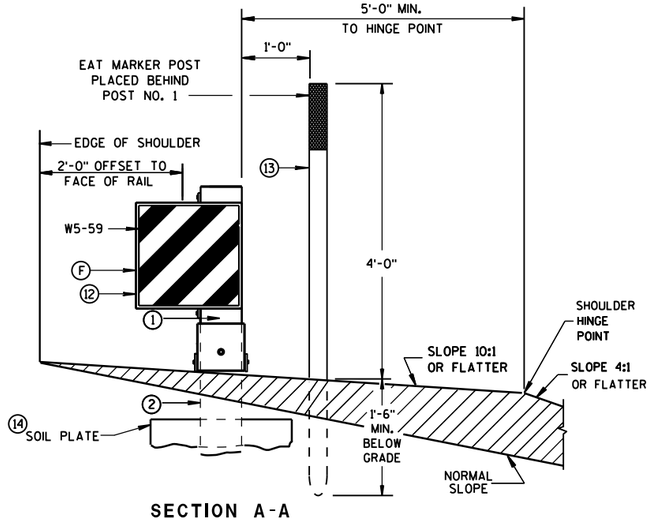












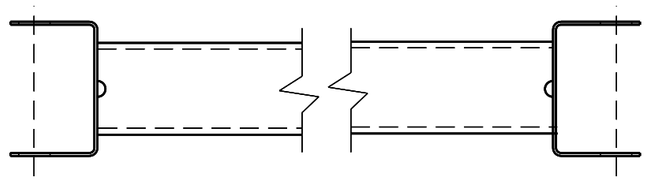
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
STATE OF WISCONSIN DEPARTMENT OF TRANSPO

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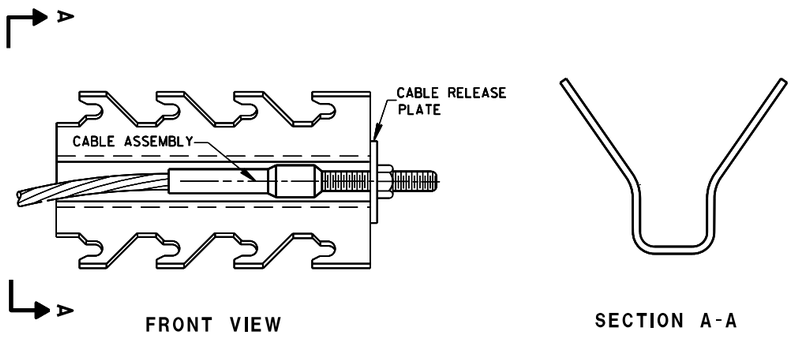
S.D.D. 14 B 44-3a

6

S.D.D. 14 B 44-3a



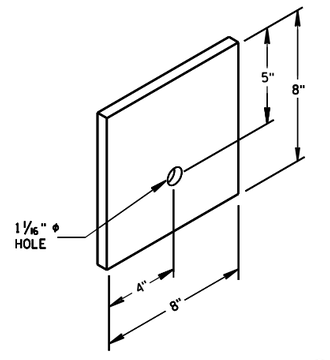
GENERIC GROUND STRUT (9) (H)



GENERIC ANCHOR CABLE BOX (8) (H)

BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'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



BEARING PLATE (6)

6

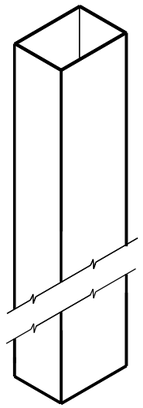
6

S.D.D. 14 B 44-3b

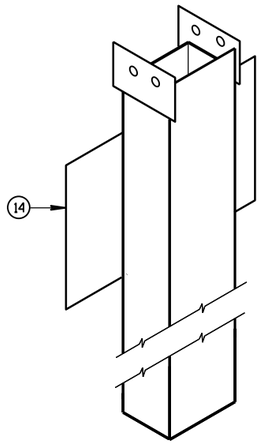
S.D.D. 14 B 44-3b

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

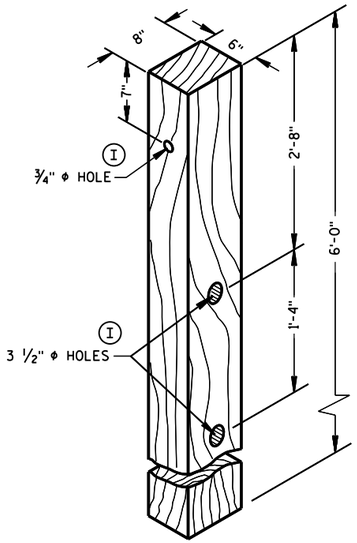
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR



UPPER POST NO. 1 (1)

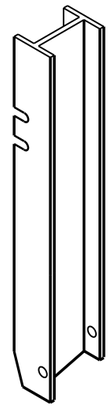


LOWER POST NO. 1 (2)

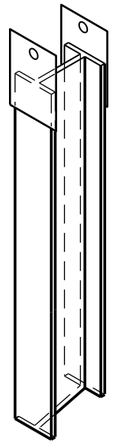


POSTS NUMBER 3-9

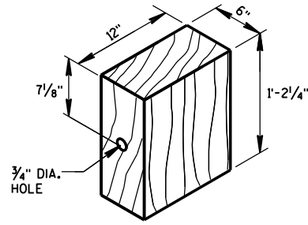
WOOD CRT POST (3)



UPPER POST NO. 2 (15)

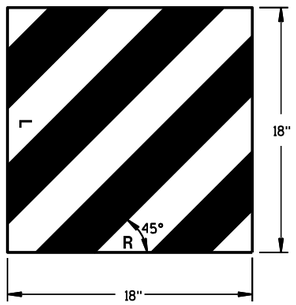


LOWER POST NO. 2 (16)



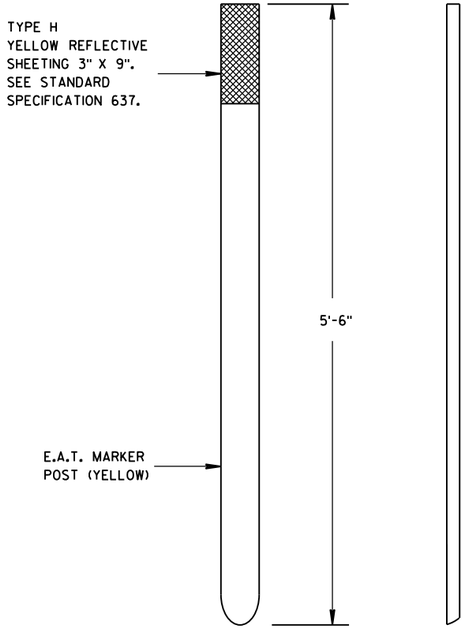
WOOD BLOCKOUT (4)

REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



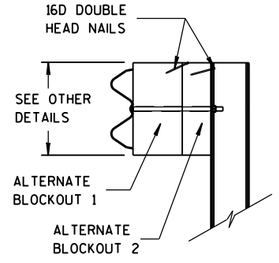
W5-59

REFLECTIVE SHEETING DETAIL (H)

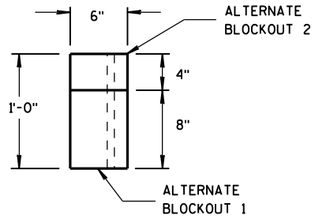


FRONT VIEW SIDE VIEW

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

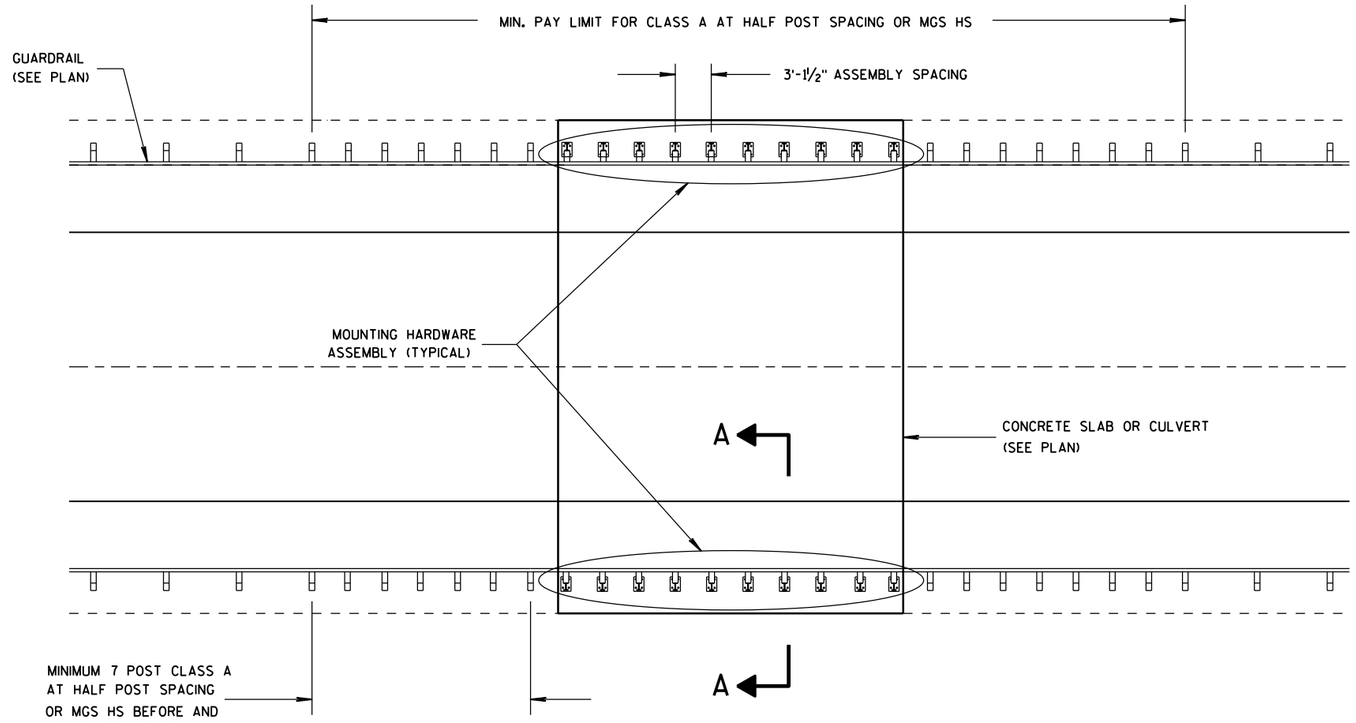
June 2017
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS
UNIT SUPERVISOR

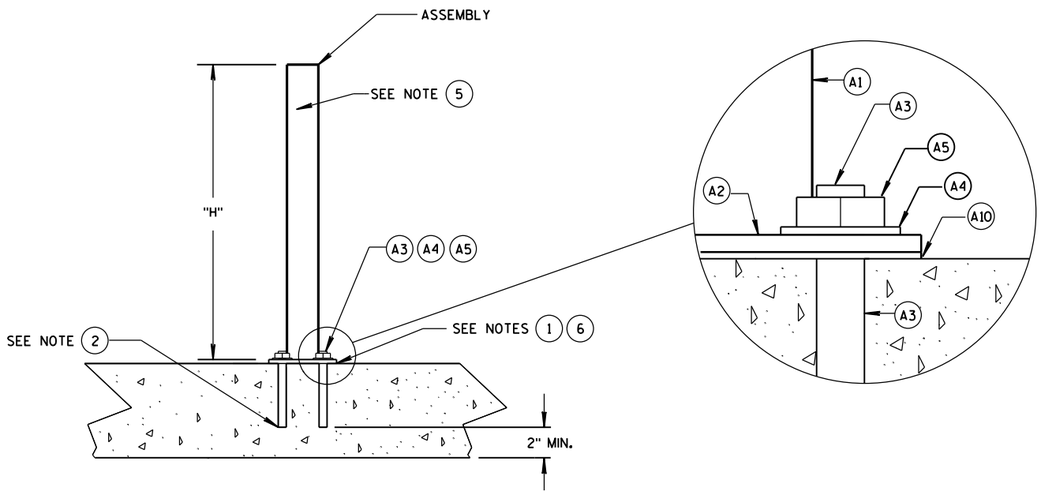
FHWA

6

S.D.D. 14 B 44-3c

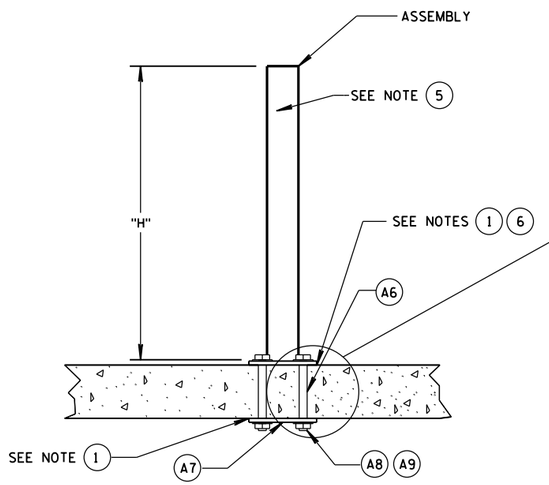


PLAN VIEW



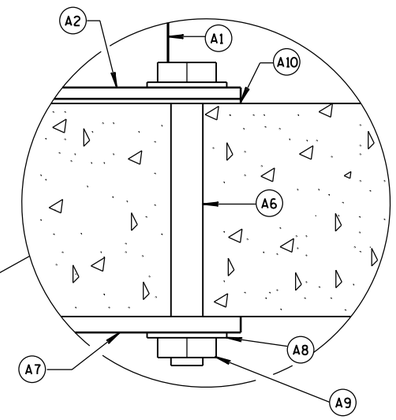
ADHESIVE ANCHOR DETAIL

SEE NOTE (4)



BOLT THROUGH DETAIL

SEE NOTE (4)



GENERAL NOTES

HOLES DRILLED INTO CONCRETE SLAB OR CULVERT ARE 1⅛-INCH DIAMETER.

POST BASE PLATE (AND BOTTOM PLATES IF USED) SHALL BE FLAT WITH ALL SURFACES SMOOTH, AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS. CUT BOTTOM OF POST SO THAT POST WILL BE VERTICAL WHEN POST ASSEMBLY IS PLACED ON TOP OF CONCRETE. HEX BOLTS AND THREADED RODS ARE TO BE PLACED PERPENDICULAR TO THE BASE PLATE.

"H" DIMENSION WILL VARY. SEE PLAN FOR "H" DIMENSION. CONTRACTOR HAS OPTION OF INSTALLING POSTS THAT ARE TALLER THAN "H" DIMENSION AND CUT POSTS TO PROPER "H" DIMENSION IN THE FIELD. IF ELECTING TO FIELD CUT POSTS, DRILL HOLES AT APPROPRIATE LOCATIONS AND APPLY GALVANIZATION.

GALVANIZE STEEL COMPONENTS AFTER FABRICATION PER SECTION 614 OF THE WISCONSIN DEPT. OF TRANSPORTATION STANDARD SPECIFICATIONS.

INSTALL 1 NUT AND 1 WASHER WHERE APPLICABLE. PROVIDE SUFFICIENT LENGTH OF BOLT OR THREADED ROD TO ALLOW FOR ¼-INCH TO ½-INCH OF THREAD TO BEYOND THE NUT.

(1) PLACE NON-STAINING, GRAY NON-BITUMINOUS JOINT SEALER ON THE BOTTOM (A2) AND IN DRILL HOLES FOR BOLT THROUGH OPTION.

(2) BOND STRENGTH OF ADHESIVE IS 1,305 PSI OR GREATER WITH A MINIMUM EMBEDMENT DEPTH OF 8-INCHES. IF MINIMUM EMBEDMENT CANNOT BE ACHIEVED BOLT THROUGH STRUCTURE.

(3) USE GAS-METAL ARC WELDING (GMAW) PROCESS WITH ER70S-3 WELDING WIRE AND ARGON-OXYGEN OR CO2 COVER GAS.

(4) OTHER COMPONENT OF BARRIER SYSTEM NOT SHOWN. SEE OTHER STANDARD DETAIL DRAWINGS. SEE SDD 14 B 15 OR SDD 14 B 42 FOR MORE DETAILS.

(5) HOLES TO MOUNT BEAM GUARD AND BLOCK NOT SHOWN ON DRAWINGS. SEE OTHER STANDARD DETAIL DRAWINGS. SEE SDD 14 B 15 OR SDD 14 B 42 FOR MORE DETAILS.

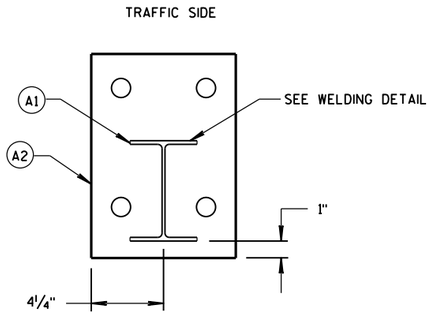
(6) ADD AND ADJUST SHIM PLATES AS NECESSARY TO INSTALL POST PLUMB. SEE (A10) FOR DETAIL.

ANCHOR POST
ASSEMBLY TOP-MOUNTED

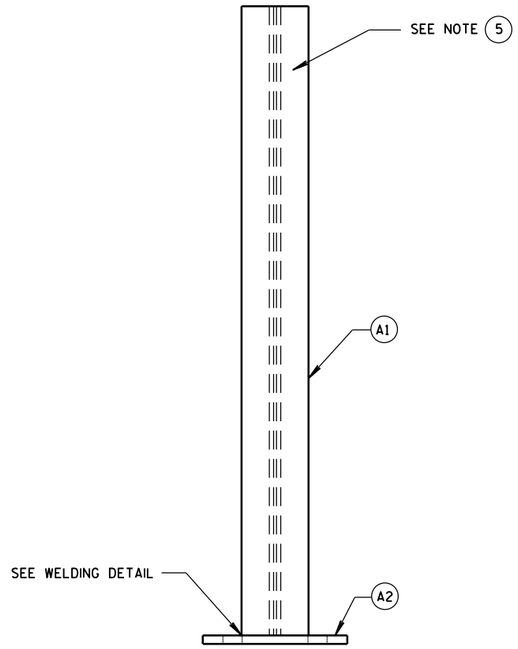
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

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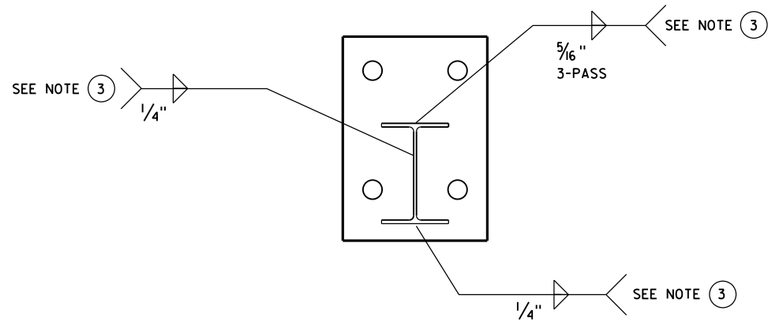
S.D.D. 14 B 51-1a



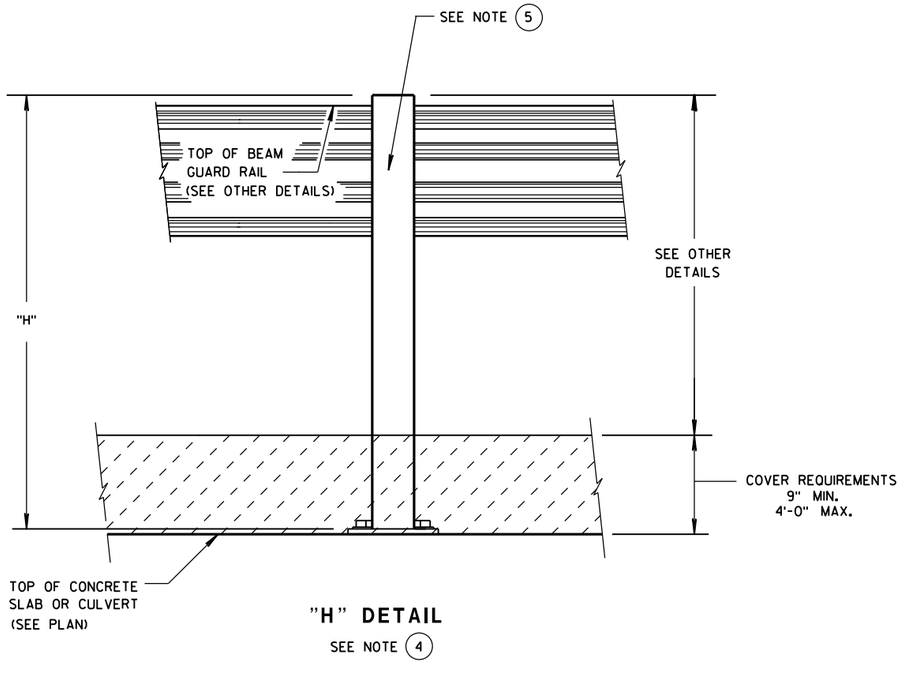
PLAN VIEW OF ASSEMBLY



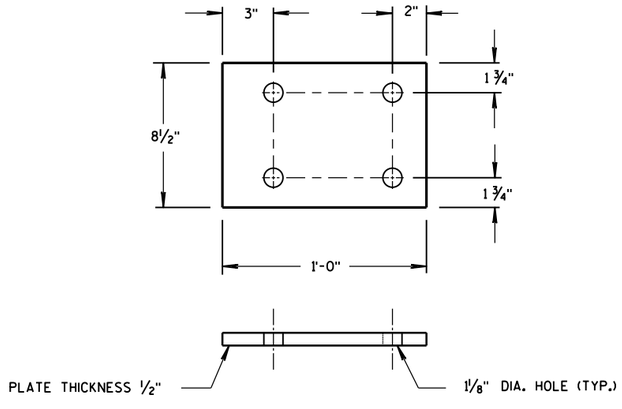
PROFILE VIEW OF ASSEMBLY



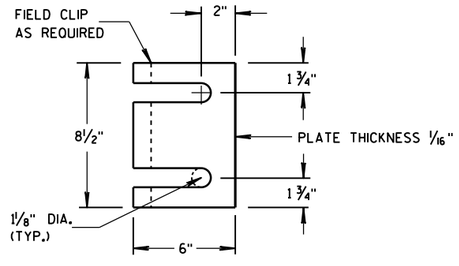
WELDING DETAIL



"H" DETAIL
SEE NOTE (4)



A2 DETAILS



A10 DETAILS

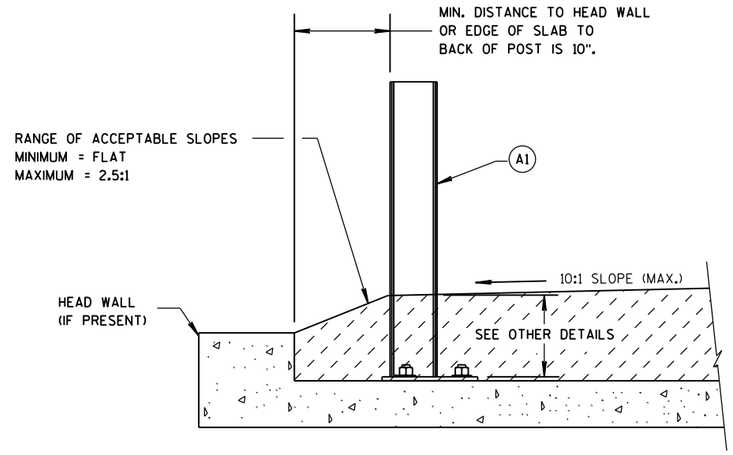
ANCHOR POST
ASSEMBLY TOP-MOUNTED

STATE OF WISCONSIN
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S.D.D. 14 B 51-1b

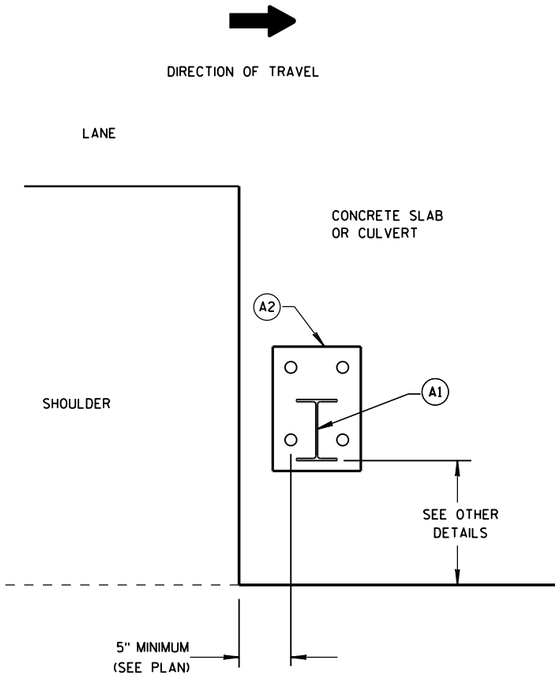
MATERIALS LIST

ITEM	DESCRIPTION	MATERIAL SPECIFICATIONS	NOTES
(A1)	W6x9 or W6x8.5	ASTM A992, 50 KSI MIN. ASTM A709 GRADE 50 OR ASTM A36	SEE SDD 14B15 OR 14B42 LENGTH WILL VARY
(A2)	STEEL BASE PLATE	ASTM A992 50 KSI MIN., ASTM A529 GRADE 50, ASTM A572 GRADE 50, OR ASTM A36	
(A3)	1" DIA. THREADED ROD	SAE J429 GRADE 2, ASTM A307 GRADE C, OR ASTM F1554 GRADE 36	LENGTH WILL VARY
(A4)	1" DIA. FLAT WASHER	ASTM F844	
(A5)	1" HEX NUT	ASTM A563A	
(A6)	1" DIA. HEX BOLT	ASTM A307	LENGTH WILL VARY
(A7)	PLATE WASHER	ASTM A992 50 KSI MIN., ASTM A529 GRADE 50, ASTM A572 GRADE 50, OR ASTM A36	
(A8)	1" DIA. FLAT WASHER	ASTM F844	
(A9)	1" DIA. HEX NUT	ASTM A563A	
(A10)	SHIM PLATE	SEE (A2)	4 MAX PER POST



SECTION A-A

SEE NOTE (4)



EDGE PLACEMENT

SEE NOTE (4)

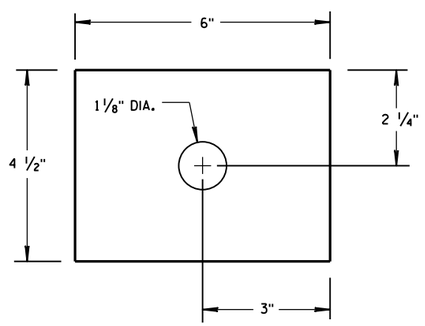
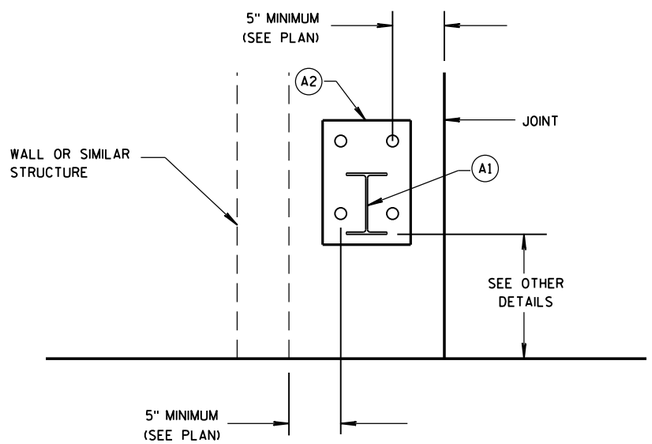


PLATE WASHER - (A7)



OBSTRUCTION AND JOINT PLACEMENT

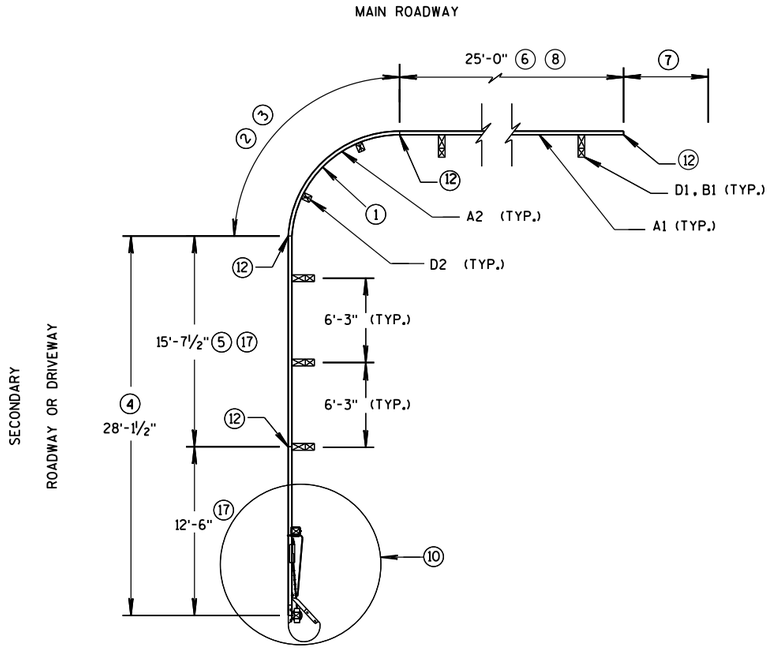
SEE NOTE (4)

ANCHOR POST ASSEMBLY TOP-MOUNTED

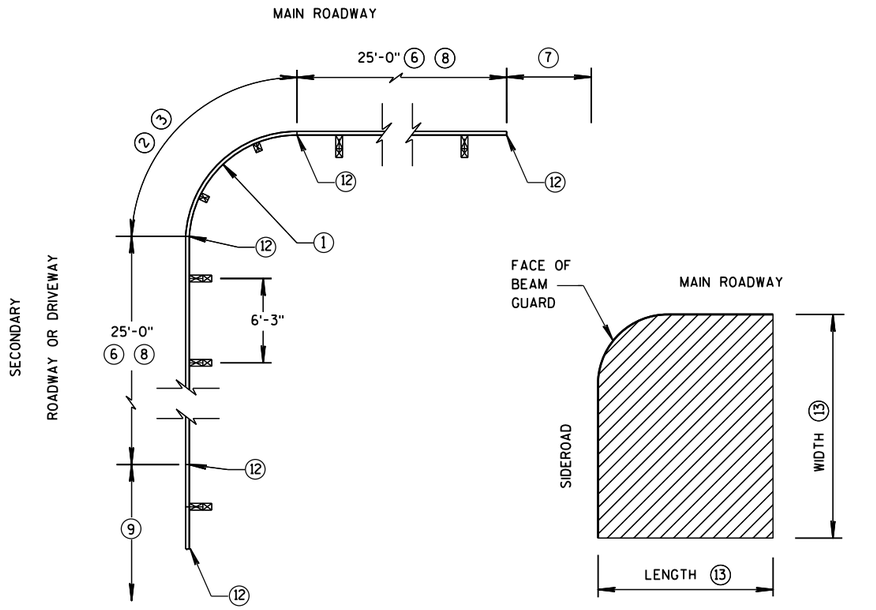
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6
S.D.D. 14 B 51-1c



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 PLAN VIEW

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

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

GENERAL NOTES

SEE PLANS FOR OTHER BARRIER SYSTEM AND LOCATION SPECIFICS.

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

GALVANIZE PARTS AFTER FABRICATION.

WELDING IS 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 VERITCAL.

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

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 TERMINAL (CRT) POSTS.

(3) WITHIN RADIUS BEAM GUARD RAILS ARE NOT BOLTED TO POSTS. BEAM GUARD RAILS 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 FOR 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 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 (17).

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

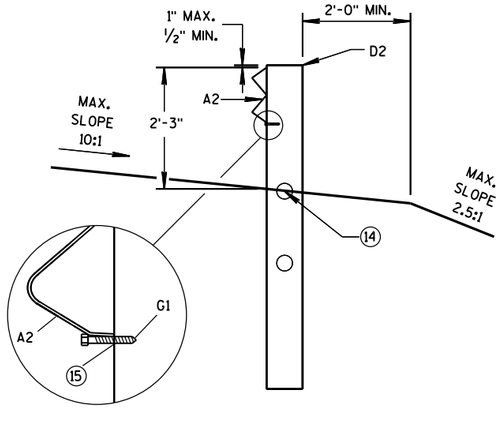
(13) SEE TABLE FOR VALUES.

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

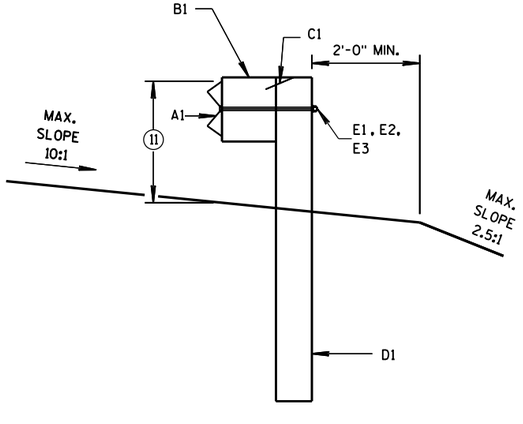
(15) DRILL 15/64" DIA. PILOT HOLE. DO NOT HAMMER LAG SCREW INTO POST.

(16) SMALL SIGNS ON BREAKAWAY HARDWARE ARE ACCEPTABLE.

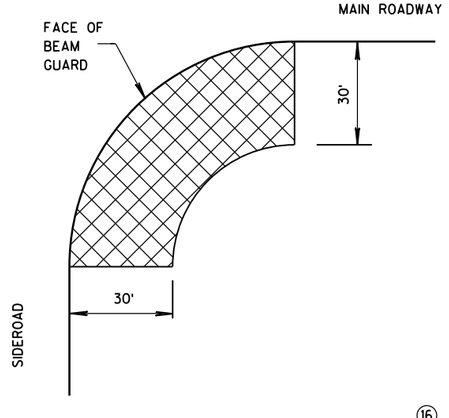
(17) TOP OF RAIL HEIGHT IS 27" WHEN USING A SHORT RADIUS TERMINAL.



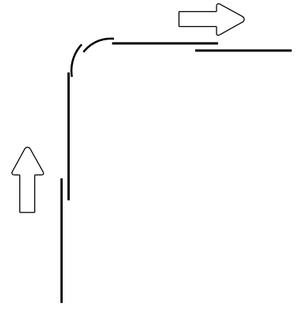
CONTROLLED RELEASE TERMINAL POST (CRT) IN RADIUS



BEAM GUARD POSTS IN HEIGHT TRANSITION



AREA FREE OF FIXED OBJECTS (16) RADIUS GREATER THAN 32'



LAP SPLICE DETAIL

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

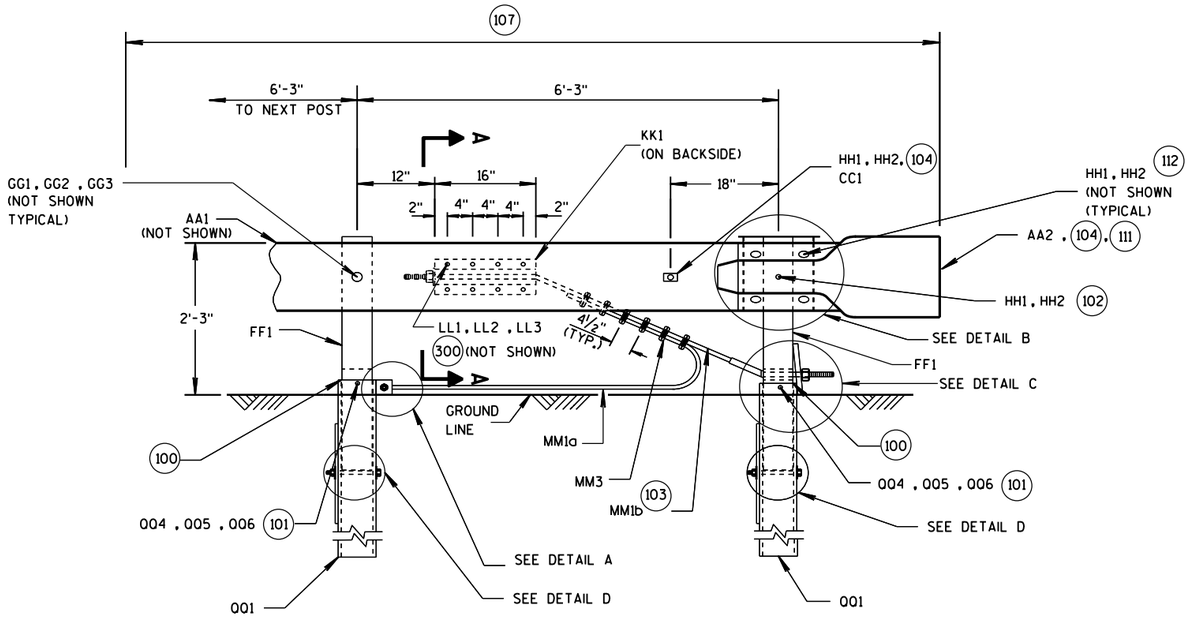
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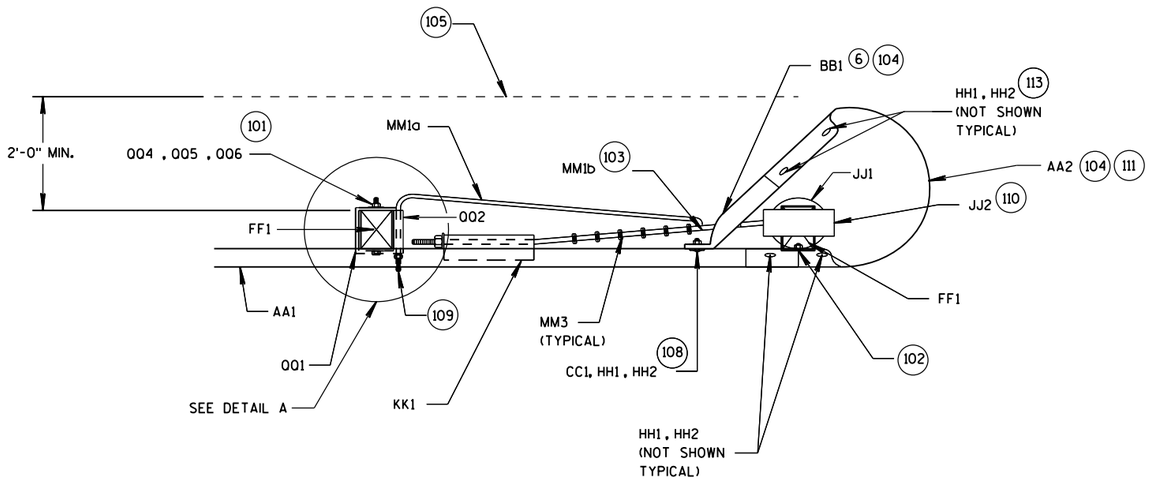
S.D.D. 14 B 53-1a

6

S.D.D. 14 B 53-1a



SHORT RADIUS TERMINAL
PROFILE VIEW



SHORT RADIUS TERMINAL
TOP VIEW

(100) TOP OF FOUNDATION TUBE 2 INCHES MAXIMUM ABOVE FINISHED GROUND.

(101) WASHERS REQUIRED BETWEEN BOLT HEAD AND FOUNDATION TUBE AND BETWEEN NUT AND FOUNDATION TUBE.

(102) SPLICE BOLT AND NUT CONNECTS BEAM GUARD RAIL, W-BEAM END SECTION BUFFER, AND STEEL PIPE ASSEMBLY. NO WASHER REQUIRED. SEE DETAIL B.

(103) CABLE IS TAUT.

(104) ADJUST AA2 AND BB1 TO FIT.

(105) BREAK POINT OF SHOULDER.

(106) TACK WELD CABLE CONNECTOR TUBE PLATE TO CABLE CONNECTION TUBE. SEE DETAIL A PROFILE VIEW.

(107) PAY LIMIT FOR BEAM GUARD.

(108) SQUARE WASHER BETWEEN HEAD OF BOLT AND TRAFFIC FACE OF BEAM GUARD. ROUND WASHER REQUIRED BETWEEN NUT AND BB1.

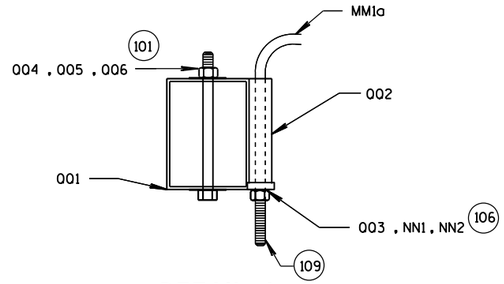
(109) CUT OR PROVIDE THREADED STUD THAT IS FLUSH WITH FACE OF BEAM GUARD RAIL KK1 (PLUS OR MINUS 1/2" TOLERANCE). DEBURR AFTER CUTTING.

(110) SEE STEEL PIPE ASSEMBLY DETAILS.

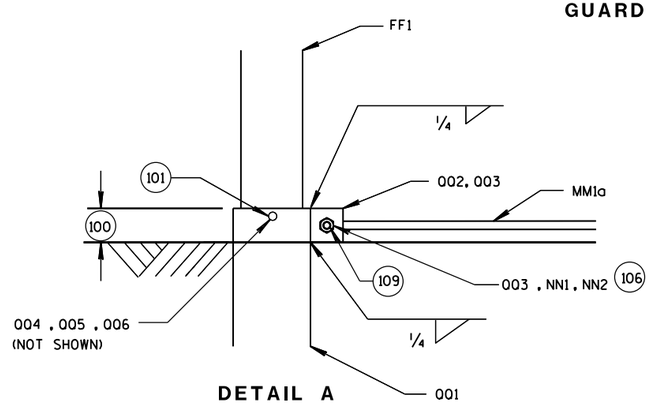
(111) ATTACH UU2 WITH UU3. SHOP APPLY UU1 TO UU2.

(112) FOUR HH1 AND HH2 REQUIRED TO ATTACH AA1 TO AA2.

(113) FOUR HH1 AND HH2 REQUIRED TO ATTACH AA2 TO BB1.



DETAIL A
TOP VIEW
(WOOD BREAKAWAY AND BEAM GUARD RAIL POSTS NOT SHOWN)

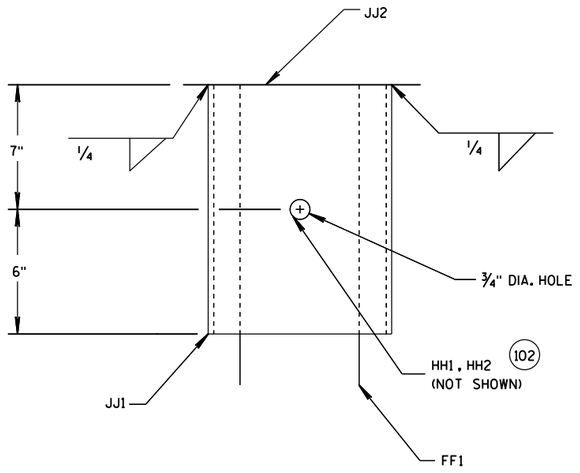


DETAIL A
PROFILE VIEW

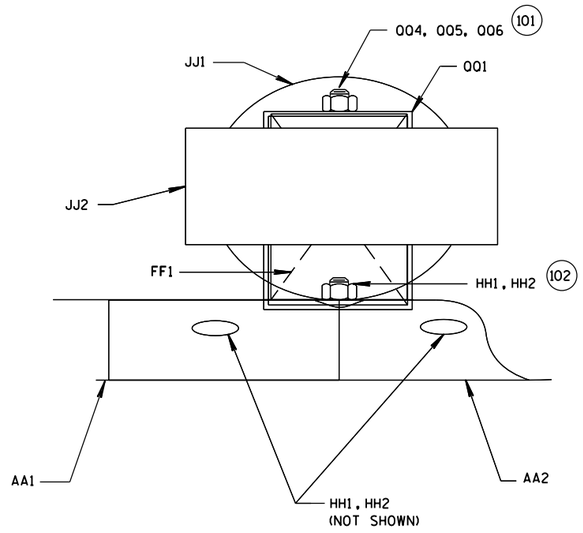
STEEL PLATE BEAM GUARD
SHORT RADIUS TERMINAL
MGS

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S.D.D. 14 B 53-1b

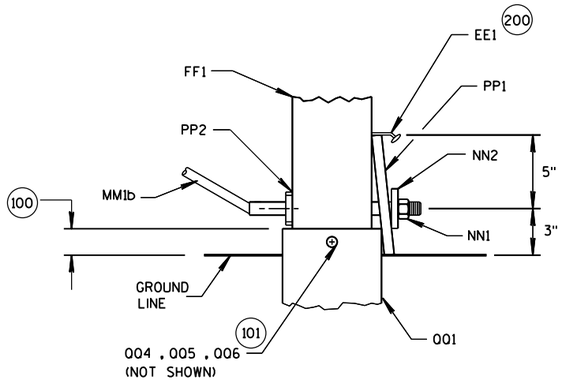


DETAIL B
PROFILE VIEW OF STEEL PIPE ASSEMBLY
(BEAM GUARD AND W-BEAM
END SECTION NOT SHOWN)

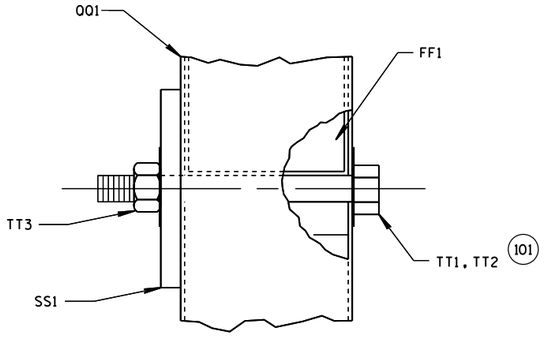


DETAIL B
PLAN VIEW OF STEEL PIPE ASSEMBLY

200 2 NAILS SPACED 4 INCHES CENTER TO CENTER.



DETAIL C
PROFILE VIEW



DETAIL D
PROFILE VIEW

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

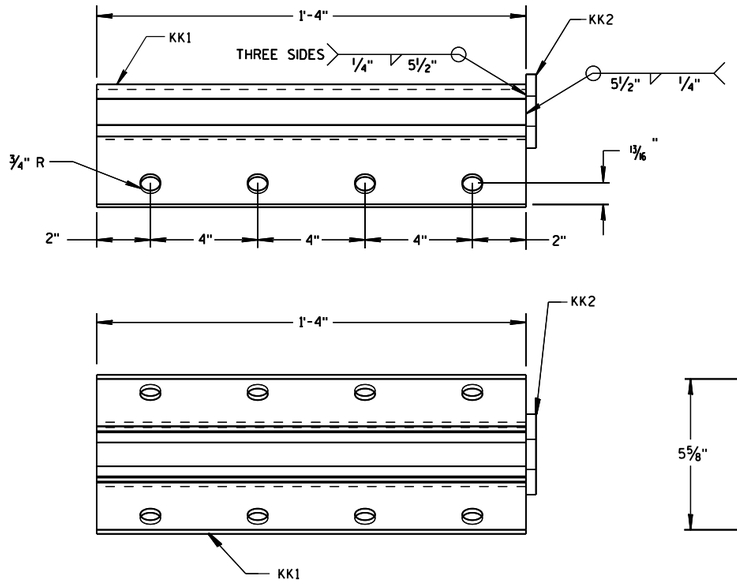
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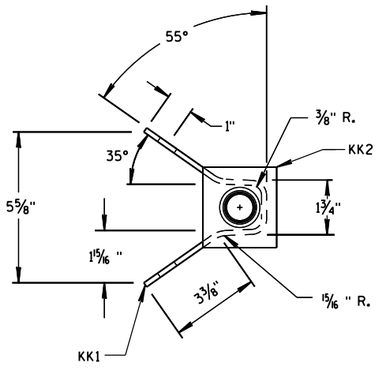
S.D.D. 14 B 53-1c

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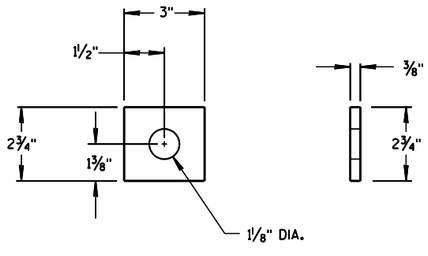
S.D.D. 14 B 53-1c

(300) WASHERS REQUIRED BETWEEN BOLT HEAD AND BEAM GUARD RAIL AND BETWEEN NUT AND ANCHOR BRACKET. EIGHT LL1 AND LL3 REQUIRED. SIXTEEN LL2 REQUIRED.

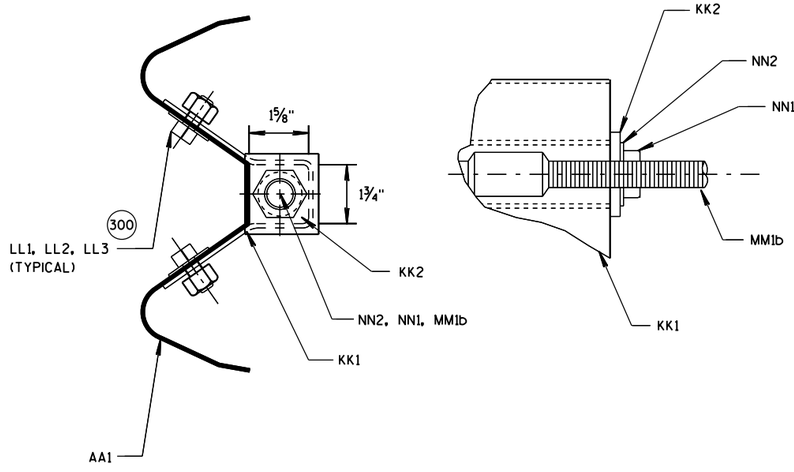




ANCHOR BRACKET (KK1, KK2)



ANCHOR BRACKET BEARING PLATE (KK2)

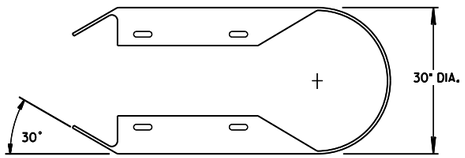


SECTION A-A

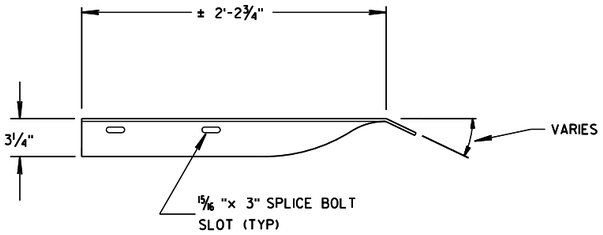
SHORT RADIUS BEAM GUARD
(MGS) SHORT RADIUS
TERMINAL (MGS)

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DEPARTMENT OF TRANSPOI

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S.D.D. 14 B 53-1d



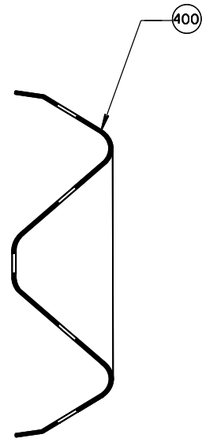
TOP VIEW



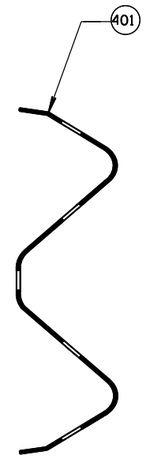
TOP VIEW

(400) CROSS SECTON OF PART IS TO FIT OVER AA1.

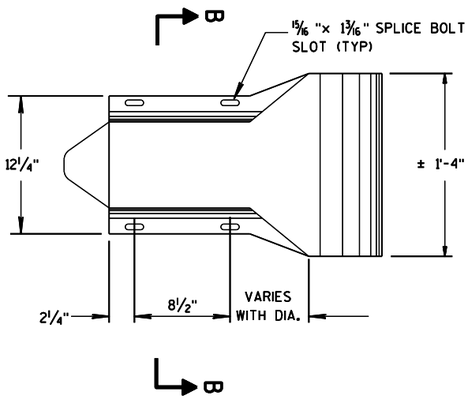
(401) CROSS SECTON OF PART IS TO FIT OVER OR UNDER AA1.



SECTION B-B

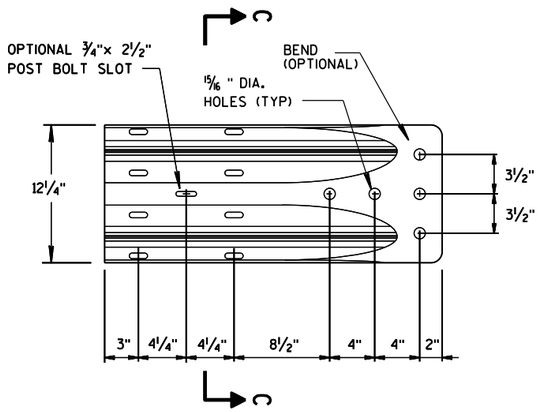


SECTION C-C



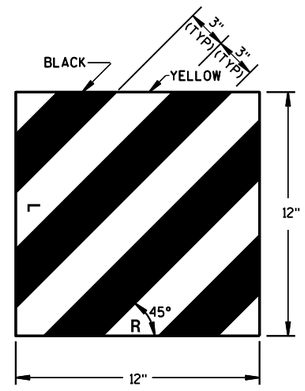
W-BEAM
END SECTION BUFFER (AA2)

PROFILE VIEW



W-BEAM
TERMINAL CONNECTOR (BB1)

PROFILE VIEW



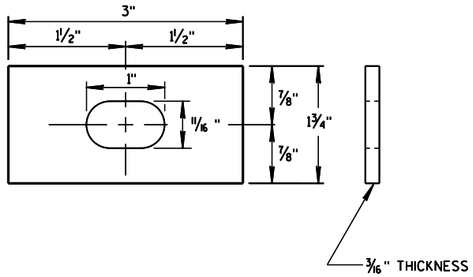
REFLECTIVE SHEETING
(UU1, UU2)

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

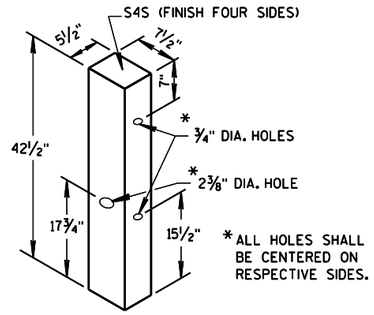
STATE OF WISCONSIN
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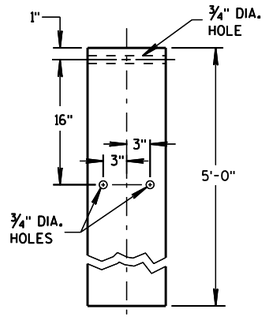
S.D.D. 14 B 53-1e



RECTANGULAR PLATE WASHER (CC1)



WOOD BREAKAWAY POST (FF1)



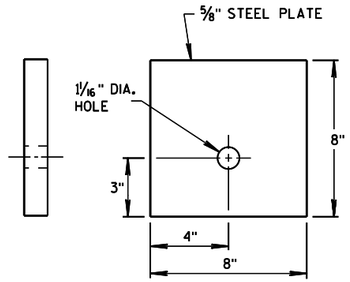
FOUNDATION TUBE (QQ1) (500)

(500) SEE DETAIL "D" FOR LOCATION AND ATTACHING SS1.

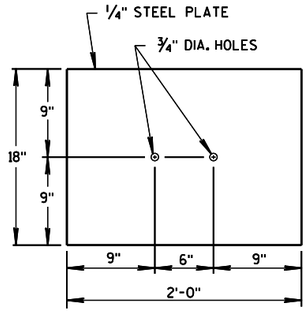
(501) FOR MM1a THREADED STUD ONLY REQUIRED ON ONE END. SWAGED FITTING REQUIRED.

(502) LOCATE HOLES ON THE CENTERLINE OF THE SIDE OF THE POST.

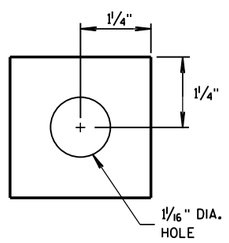
(503) MM1a MAY HAVE ONE THREADED STUD 4 INCHES LONG. SEE NOTE (109).



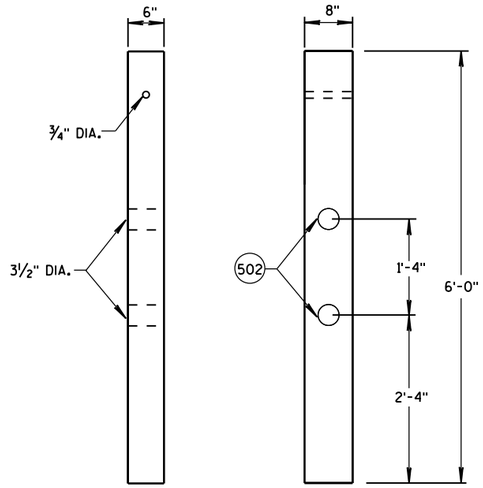
BEARING PLATE (PP1)



SOIL PLATE (SS1)

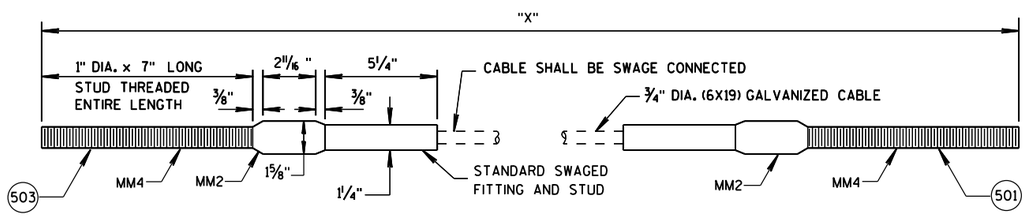


TUBE END PLATE (QQ3)



FRONT VIEW SIDE VIEW

CONTROLLED RELEASE TERMINAL POST (CRT) (D2)



"X" LENGTH	
MM1a	9'-0"
MM1b	6'-8"

CABLE ASSEMBLY (MM1a , MM1b)

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

STATE OF WISCONSIN DEPARTMENT OF TRANSPOR

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S.D.D. 14 B 53-1f

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 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		5/8" DIA. SEE SDD 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	
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	
		ASTM A307 GRADE A OR SAE J429 GRADE 2	5/8" DIA. SEE SDD 14B42 FOR GEOMETRY AND OTHER INFORMATION
		UNC	
		AASHTO M180	

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
F2	SPLICE BOLT - NUT	ASTM A563 GRADE A	5/8" DIA. SEE SDD 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	
		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	3/8" DIA. 3" 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 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 A123 OR5 GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO 283

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S.D.D. 14 B 53-1g

BILL OF MATERIALS - SHORT RADIUS BEAM GUARD (MGS)

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
GG3	POST BOLT - NUT	ASTM A563 GRADE A	3/8" DIA.
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	SEE 14B42 FOR 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	
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	3/8" DIA. SEE 14B42 FOR GEOMETRY
		ASTM A307 GRADE A OR SAE J429 GRADE 2	
		UNC	
		AASHTO M180 HEAD GEOMETRY	
HH2	SPLICE BOLT - NUT	ASTM A563 GRADE A	3/8" 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	SEE 14B42 FOR GEOMETRY
		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 3/8" 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	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	
LL2	ANCHOR BRACKET - WASHER	ASTM F436 TYPE 1 (HARDEN WASHER ONLY)	5/8" DIA.
		GALV. AASHTO M111 / ASTM A123 OR5 GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	
LL3	ANCHOR BRACKET - NUT	ASTM A563 GRADE A	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	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A563	
		UNC	

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
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	3/4"
		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 A563	
		UNC	
NN2	ANCHOR CABLE - NUT - WASHER	ASTM F436 TYPE 1 (HARDEN WASHER ONLY)	1" DIA.
		GALV. AASHTO M111 / ASTM A123 OR5 GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	
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	

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 14 B 53-1h

BILL OF MATERIALS - SHORT RADIUS BEAM GUARD (MGS)

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
003	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 2½" X 2½" X ¼"
		GALV. AASHTO M111 / ASTM A123	
004	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	⅝" DIA.
		ASTM A307 GRADE B HEAVY HEX HEAD OR SAE J429 GRADE 2 HEAVY HEX HEAD	
		UNC	
005	GROUND PLATE AND YOKE - WASHER	ASTM F436 TYPE 1 (HARDEN WASHER ONLY)	⅝" DIA.
		GALV. AASHTO M111 / ASTM A123 OR5 GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	
006	GROUND STRUT AND YOKE - NUT	HEAVY HEX	⅝" 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	
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 / ASTM A123	
TT1	SOIL PLATE - 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	
TT2	SOIL PLATE - WASHER	ASTM F436 TYPE 1 (HARDEN WASHER ONLY)	⅝" DIA.
		GALV. AASHTO M111 / ASTM A123 OR5 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	⅝" 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	

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S.D.D. 14 B 53-1i

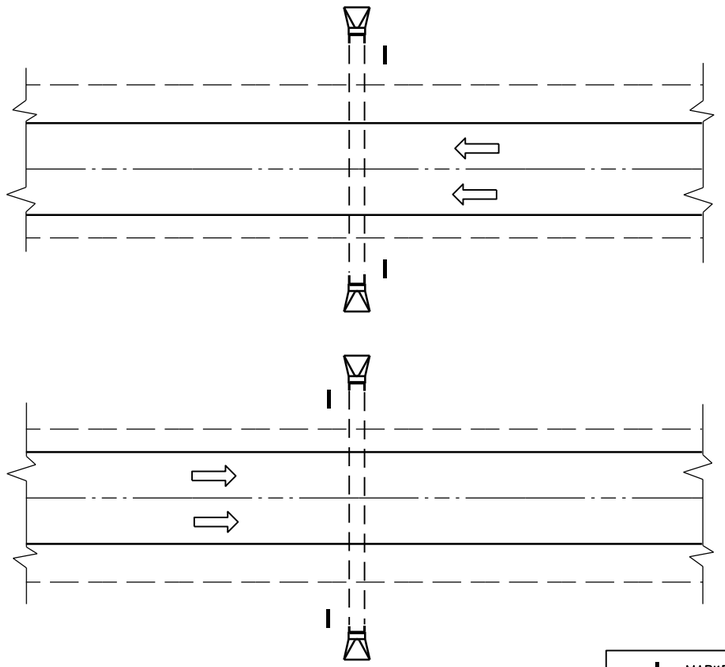
SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS D UNIT SUPERVI
NT
FHWA

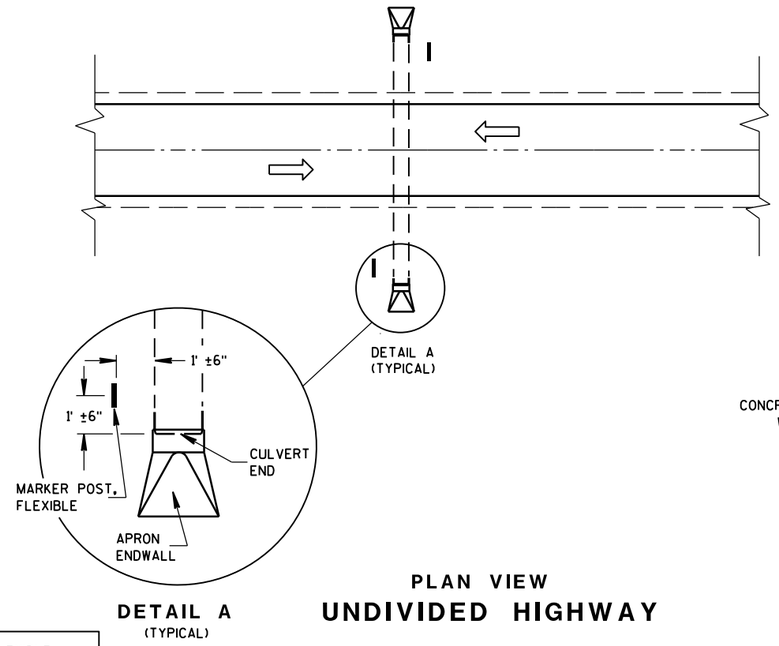
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S.D.D. 14 B 53-1i



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

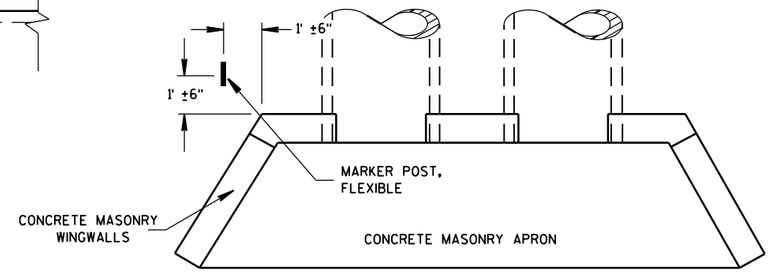
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

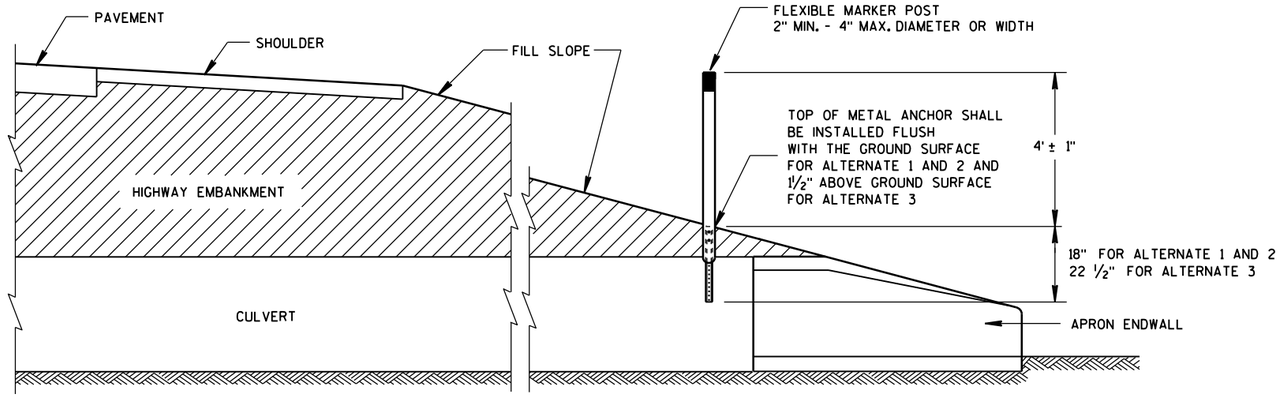
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



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

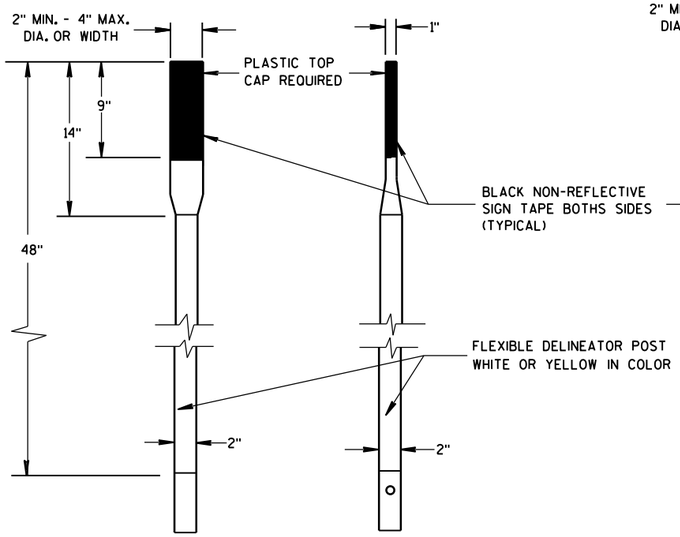
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

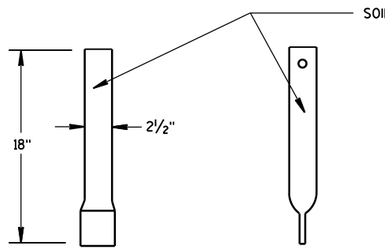
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S.D.D. 15 A 3-2a

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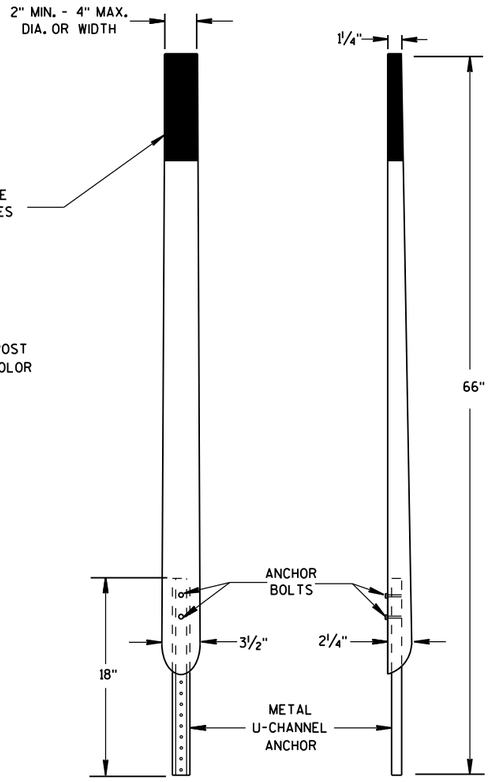
S.D.D. 15 A 3-2a





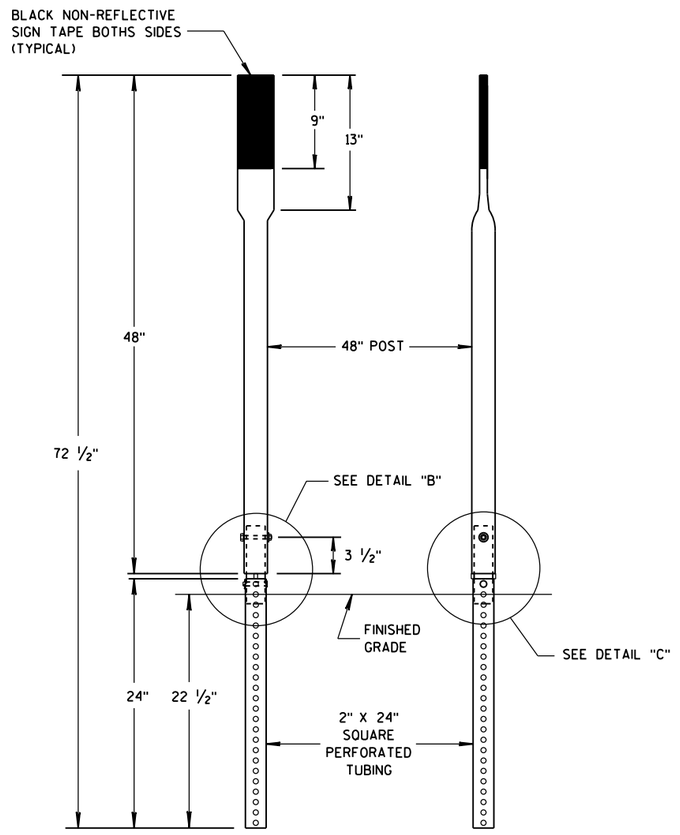
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

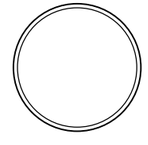
ALTERNATE 2



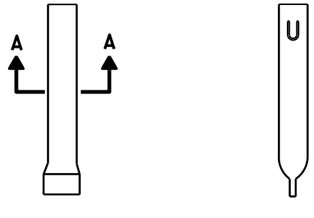
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POSTS

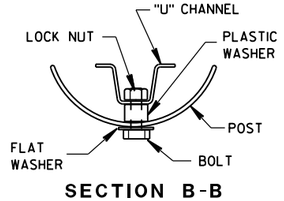


SECTION A-A

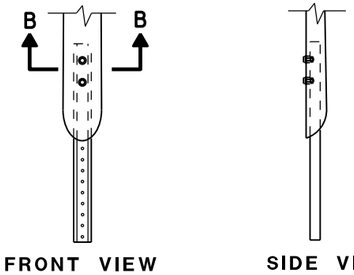


FRONT VIEW SIDE VIEW

ALTERNATE 1

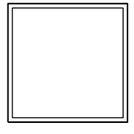


SECTION B-B

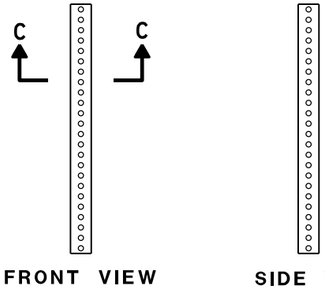


FRONT VIEW SIDE VIEW

ALTERNATE 2



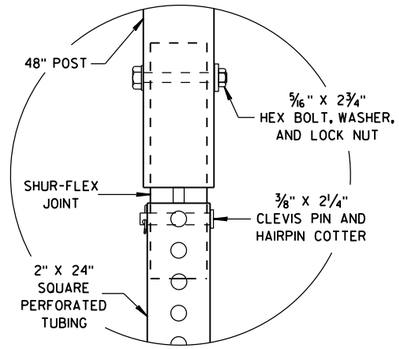
SECTION C-C



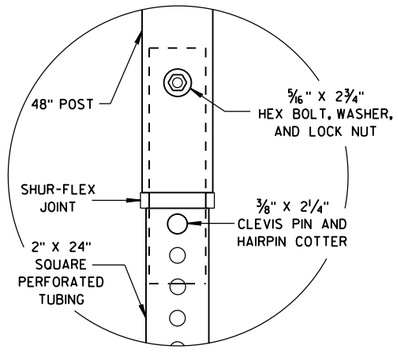
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

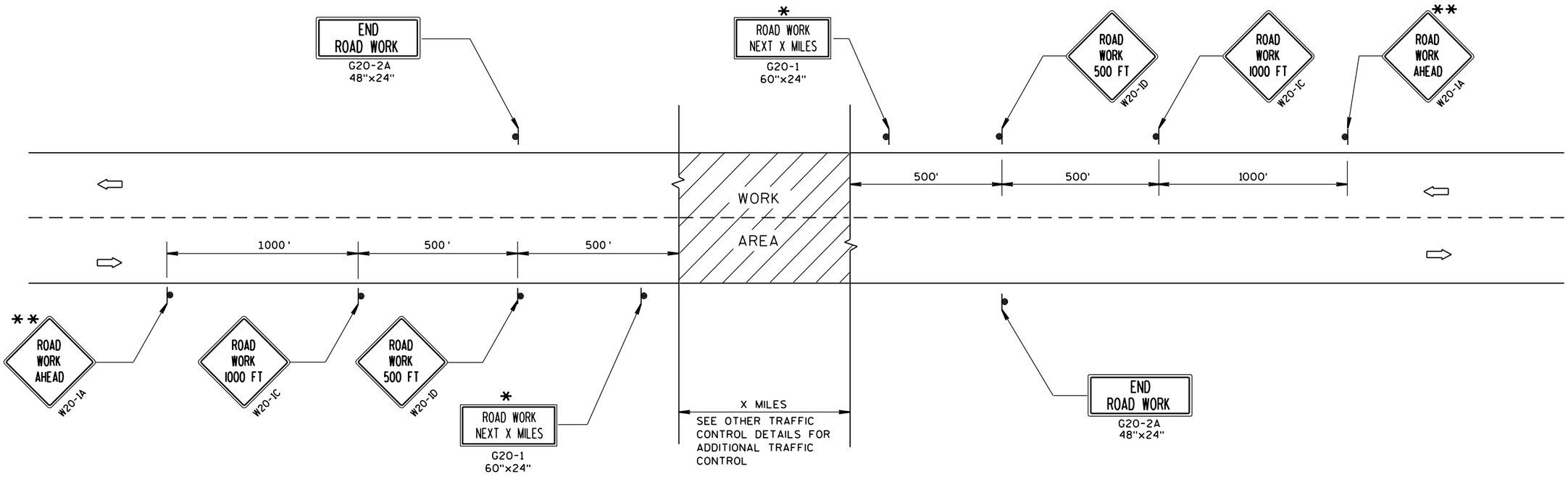
APPROVED
10/1/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
287
IGN
FHWA

6

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

6

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



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

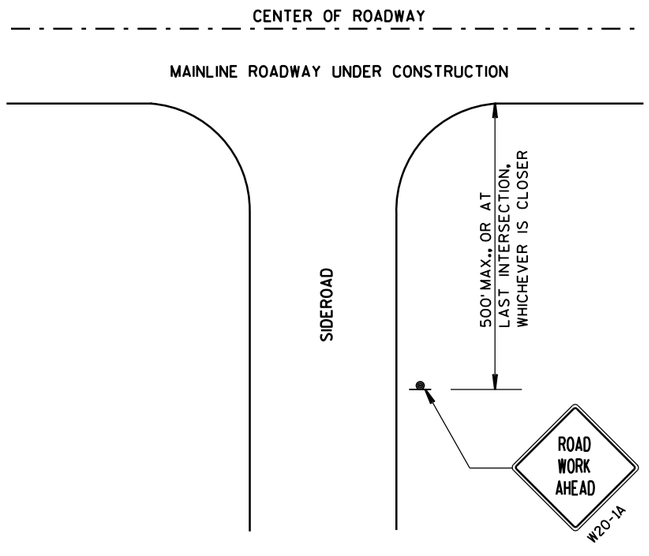
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

** PLACE ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept. 2015 — DATE

/S/ Peter Amakobe Atepe — STATEWIDE WORK ZONE SAFETY ENGINEER

FHWA

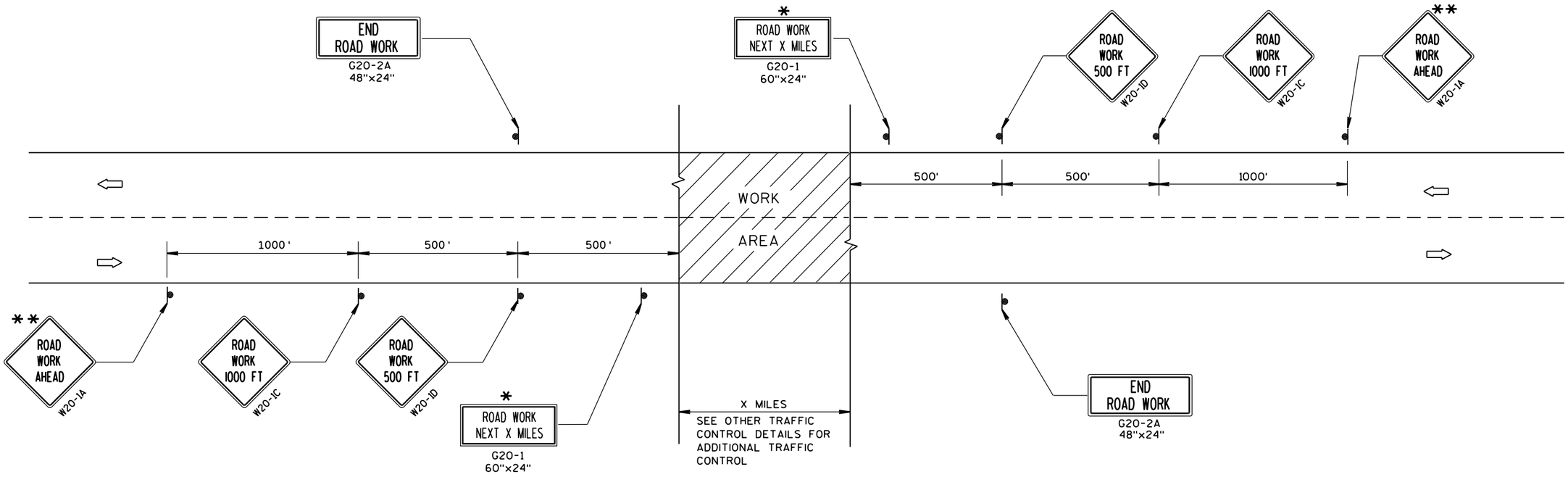
6

S.D.D. 15 C 4-3

6

S.D.D. 15 C 4-3

TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

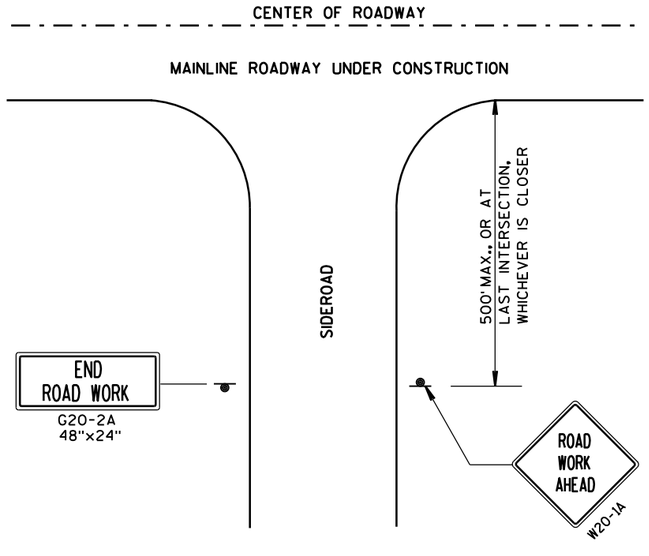
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

** PLACE ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

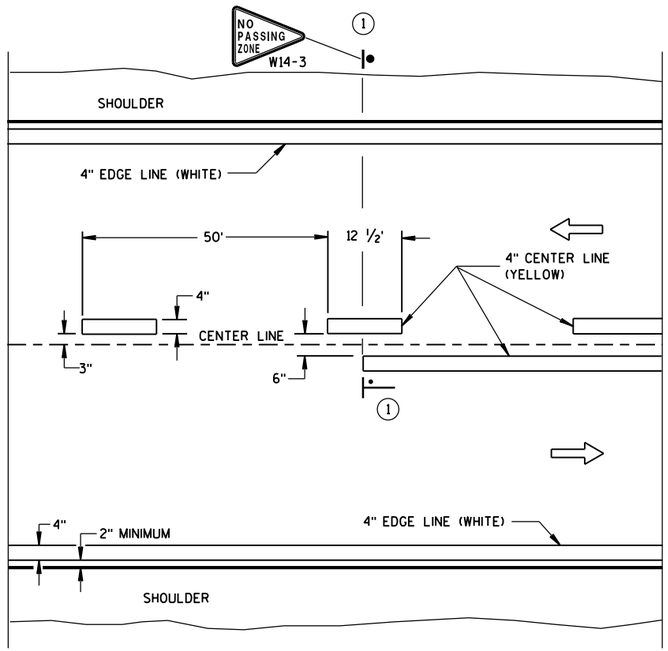
TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

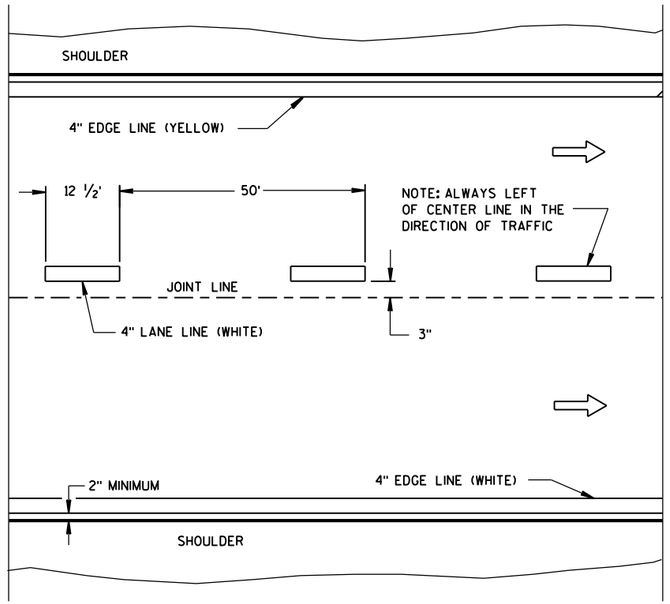
APPROVED
Sept. 2017 — DATE
/S/ Andrew Heldtke — WORK ZONE ENG
FHWA

6

S.D.D. 15 C 4-4



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

GENERAL NOTES

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

(1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING.

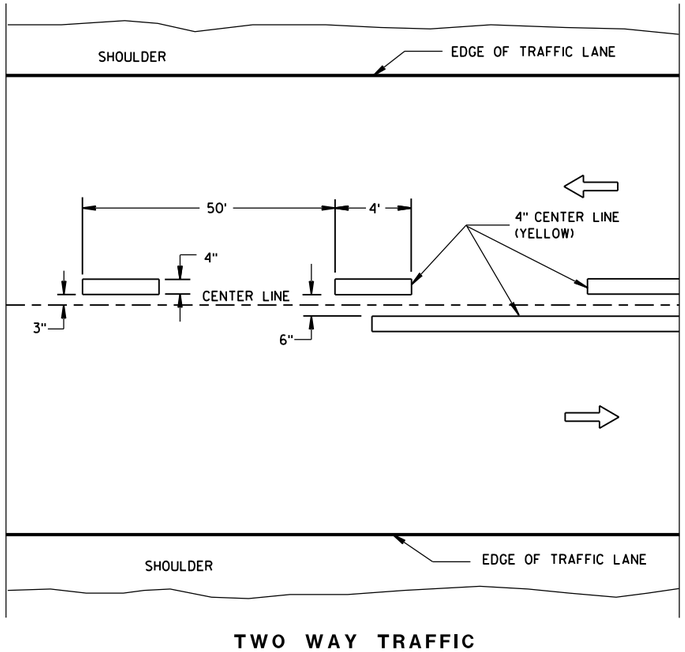
NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

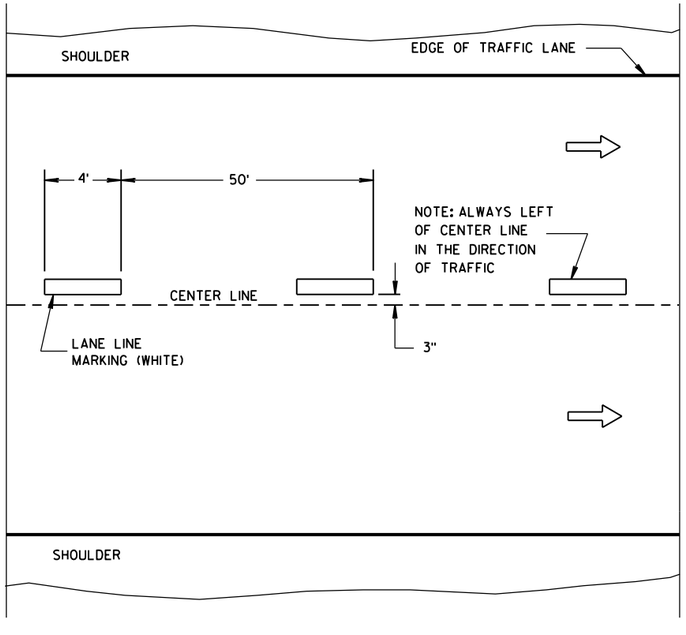
LEGEND

"T" MARKING

POST MOUNTED SIGN



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

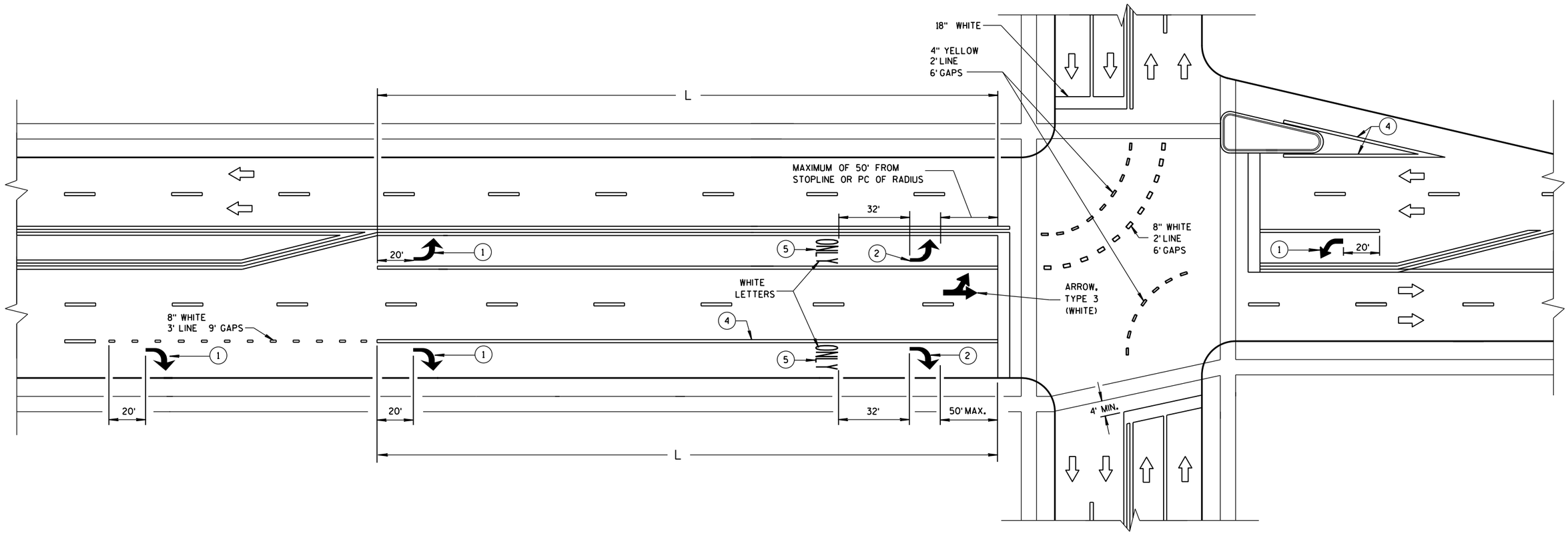
LONGITUDINAL MARKING (MAINLINE)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2017 DATE	/S/ Matthew R. Rauch STATE SIGNING AND MAR ENGINEER
FHWA	

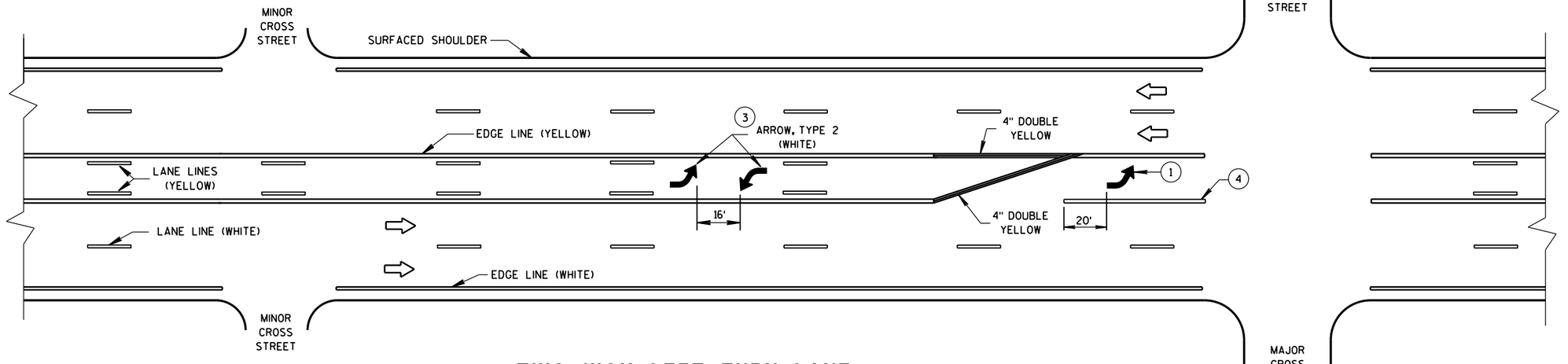
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S.D.D. 15 C 8-18a

6

S.D.D. 15 C 8-18a





GENERAL NOTES

(1) REQUIRED ARROW, TYPE 2 (WHITE).

(2) REQUIRED ARROW, TYPE 2 (WHITE) WHEN L IS GREATER THAN 78 FEET AND LESS THAN OR EQUAL TO 166 FEET.

(3) A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.

(4) 8" WHITE

(5) REQUIRED WORD ONLY WHEN L IS GREATER THAN 166 FEET.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL

L = LENGTH OF TURN BAY

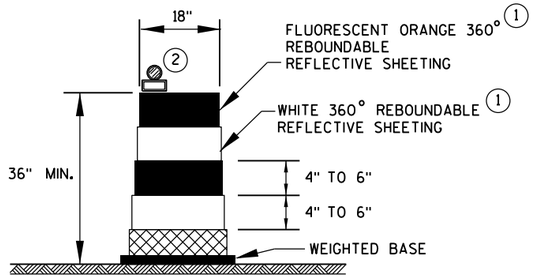
TWO WAY LEFT TURN LANE

PAVEMENT MARKING
(TURN LANES)

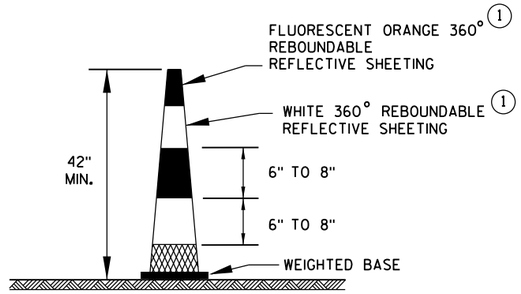
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

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S.D.D. 15 C 8-18b



DRUM

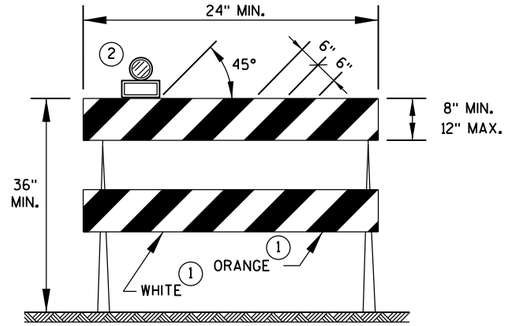


42" CONE

DO NOT USE IN TAPERS
1/2 SPACING OF DRUMS

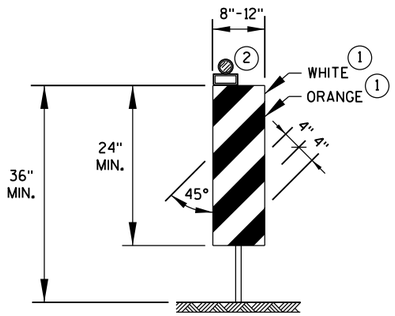
GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



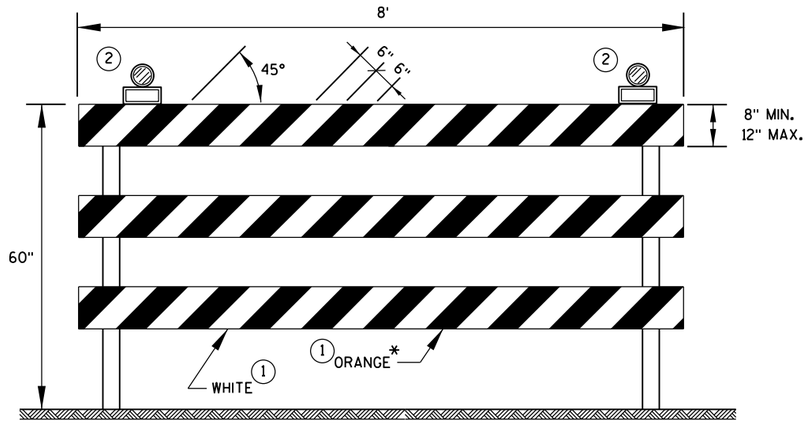
TYPE 2 BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE 3 BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION, USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
June 2017 DATE	/S/ Andrew Heidtke WORK ZONE ENG
FHWA	

6

S.D.D. 15 C 11-7b

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA

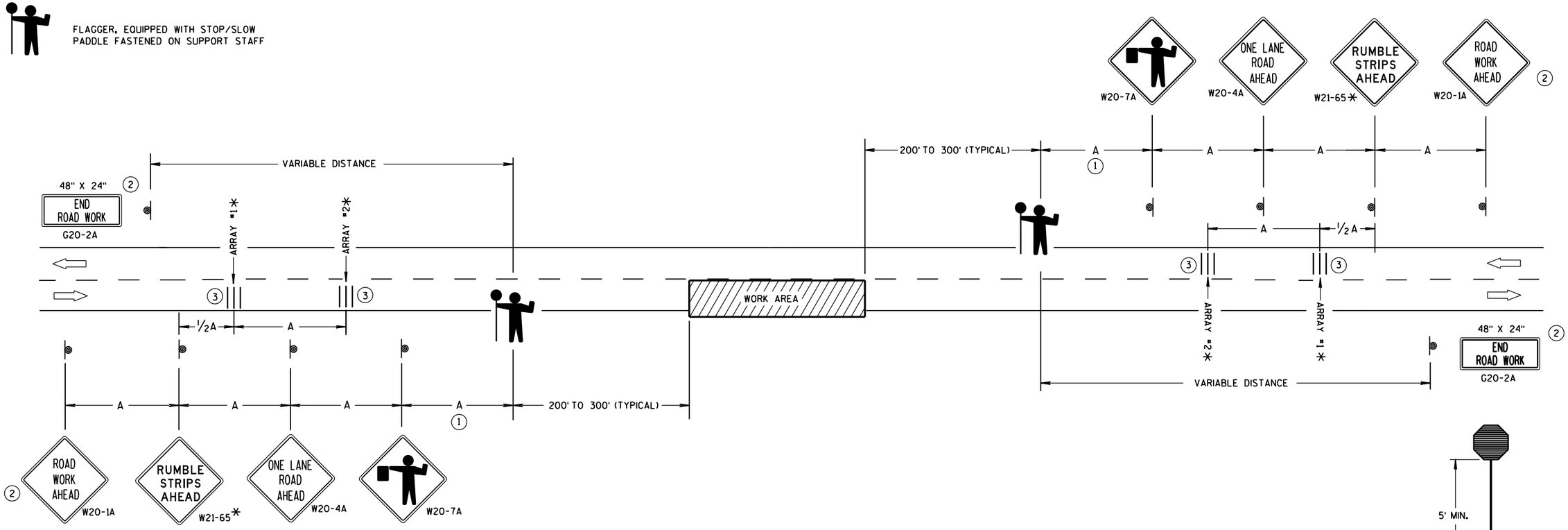
FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

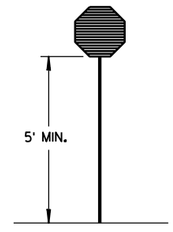
SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING A
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING A.





STOP/SLOW PADDLE ON SUPPORT STAFF

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

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

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, REMOVE TEMPORARY RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

* UTILIZE TEMPORARY RUMBLE STRIPS WHEN FLAGGING OPERATION IS ANTICIPATED TO BE STATIONARY IN EXCESS OF TWO HOURS.

(1) FOR A MOVING WORK OPERATION, SIGNING AND TEMPORARY RUMBLE STRIPS (IF USED) SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3,500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

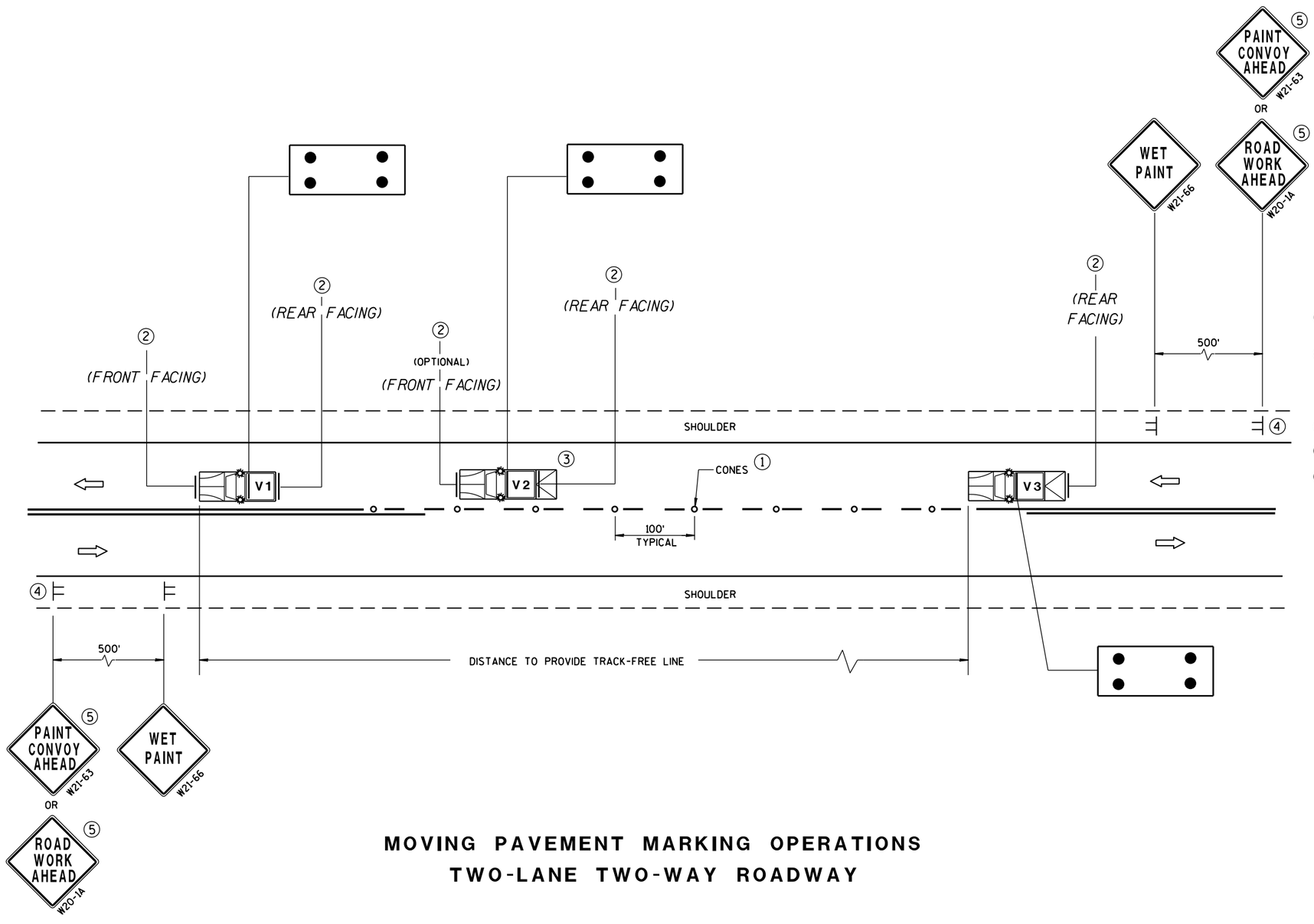
(3) EACH TEMPORARY RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 — DATE
/S/ Andrew Heldtke — WORK ZONE ENG
FHWA

6
S.D.D. 15 C 12-6



MOVING PAVEMENT MARKING OPERATIONS
TWO-LANE TWO-WAY ROADWAY

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE MARKING.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

(1) CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

(2) USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.

WET PAINT W21-64 OR WET PAINT W21-64

(3) OPTIONAL TRUCK-MOUNTED ATTENUATOR.

(4) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

(5) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

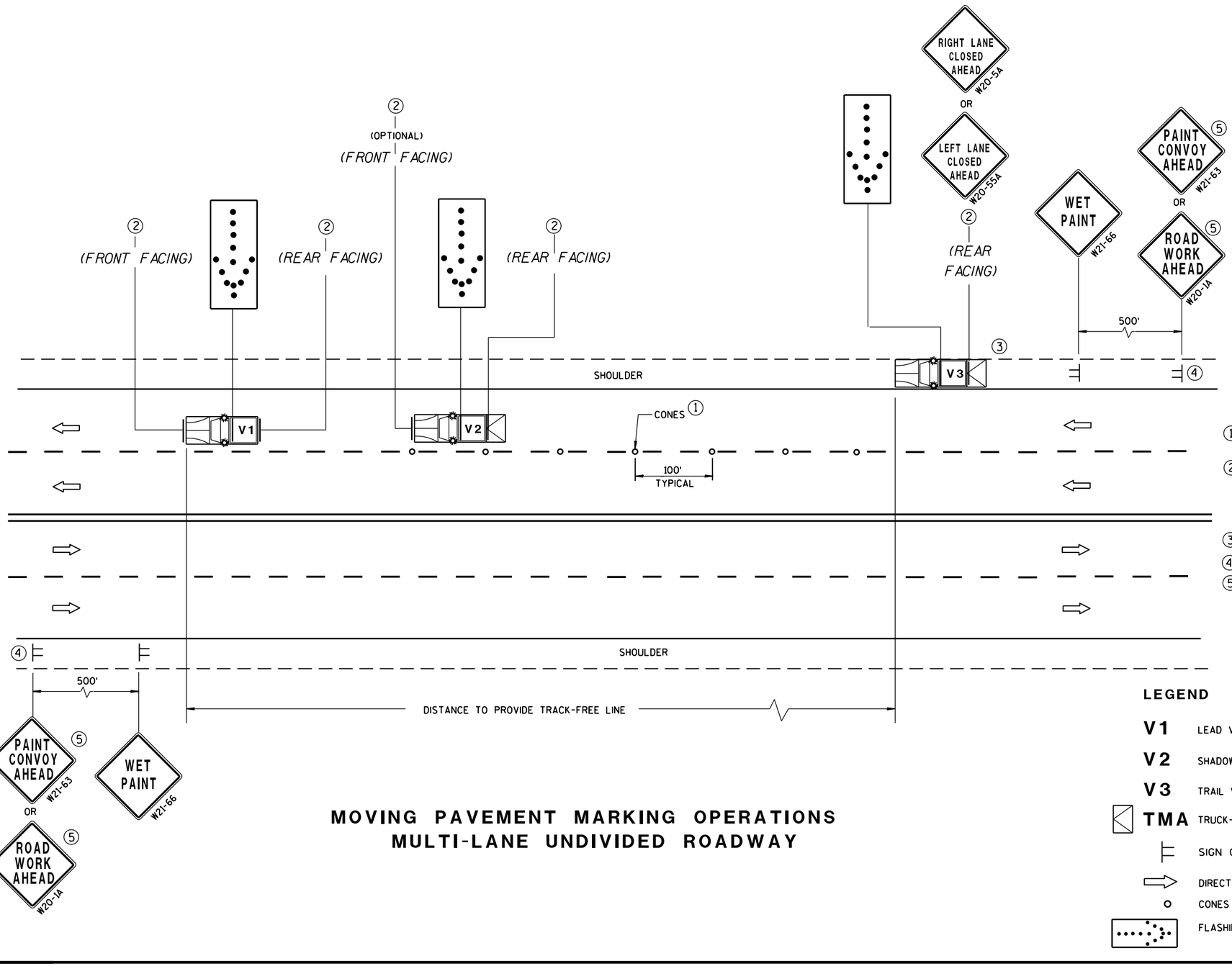
LEGEND

- **V1** LEAD VEHICLE
- **V2** SHADOW VEHICLE
- **V3** TRAIL VEHICLE WITH TMA
- **TMA** TRUCK-MOUNTED ATTENUATOR
- SIGN ON TEMPORARY SUPPORT
- DIRECTION OF TRAFFIC
- CONES
- FLASHING ARROW PANEL (CAUTION)

MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
Sept., 2017 DATE	/S/ Andrew Heldtke WORK ZONE ENGR
FHWA	

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S.D.D. 15 C 19-5a
S.D.D. 15 C 19-5a



MOVING PAVEMENT MARKING OPERATIONS
MULTI-LANE UNDIVIDED ROADWAY

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.

FOR EDGELINE MARKING OR IF CONES ARE NOT USED, POSITION THE REARMOST SHADOW VEHICLE ON THE SHOULDER AS SHOWN IN THE MUTCD IF THE SHOULDER HAS ADEQUATE WIDTH.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE OR LANELINE MARKING FOR MULTILANE UNDIVIDED ROADWAYS.

(1) CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

(2) USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.

WET PAINT W21-64 OR WET PAINT W21-64

(3) OPTIONAL TRUCK-MOUNTED ATTENUATOR.

(4) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

(5) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

V1	LEAD VEHICLE
V2	SHADOW VEHICLE
V3	TRAIL VEHICLE WITH TMA
TMA	TRUCK-MOUNTED ATTENUATOR
	SIGN ON TEMPORARY SUPPORT
	DIRECTION OF TRAFFIC
	CONES
	FLASHING ARROW PANEL (MERGE)

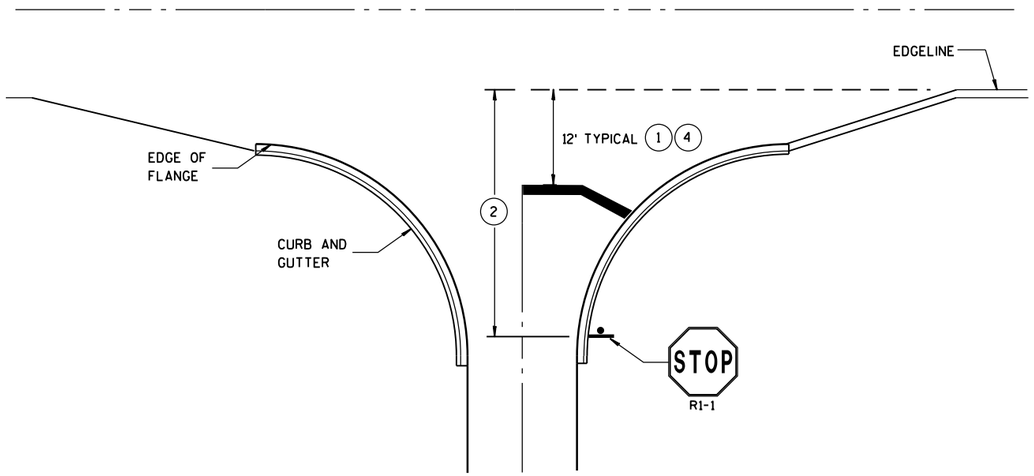
MOVING PAVEMENT MARKING OPERATION
MULTI-LANE UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

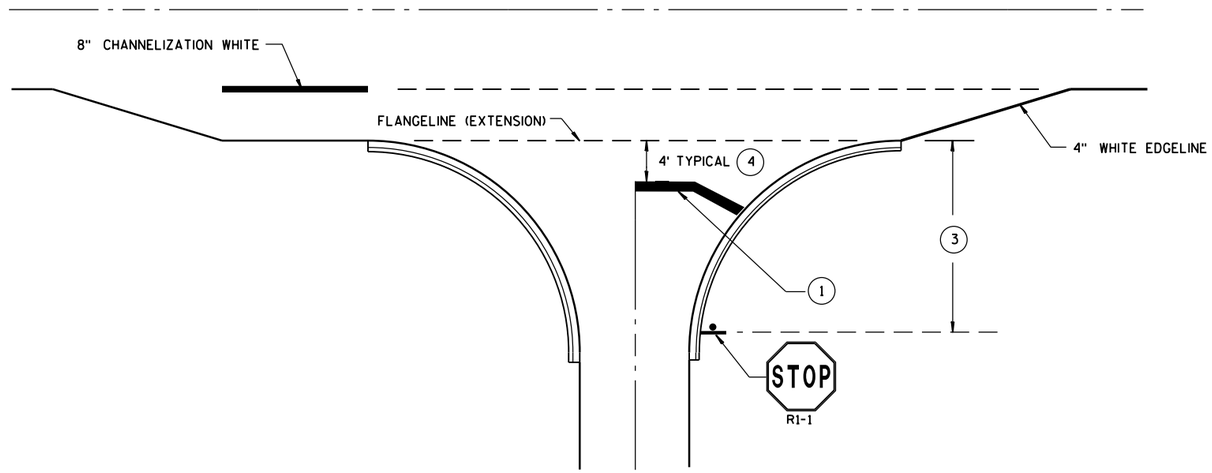
APPROVED
Sept., 2017 — DATE
/S/ Andrew Heldtke — WORK ZONE ENGIN
FHWA

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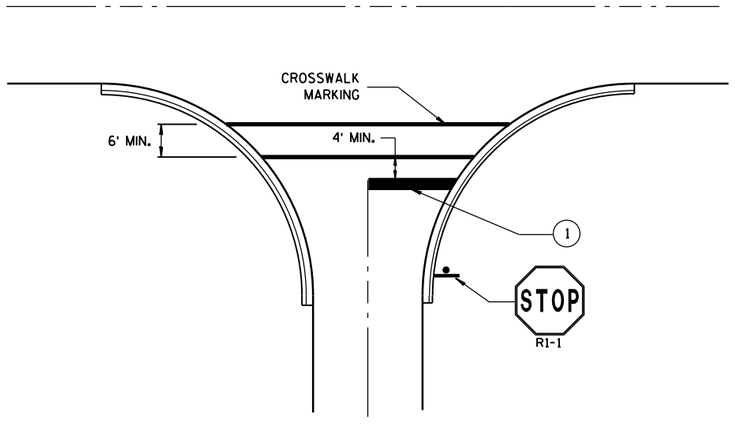
S.D.D. 15 C 19-5b



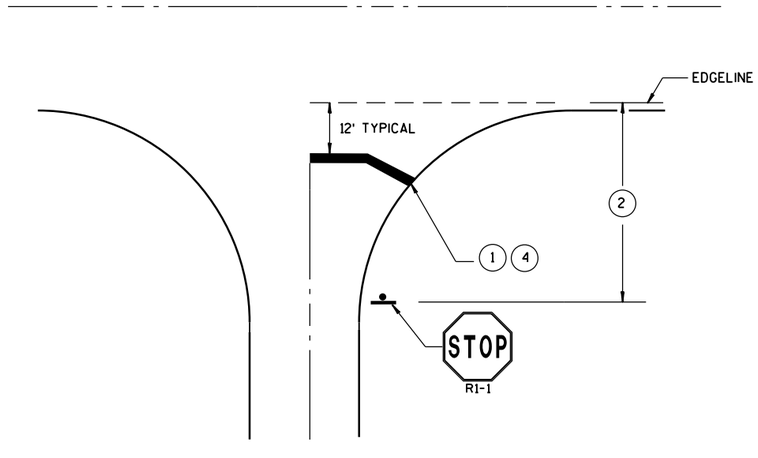
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

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 PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.

(2) IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.

(3) IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.

(4) MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES. (NO CLOSER THAN 4 FEET).

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

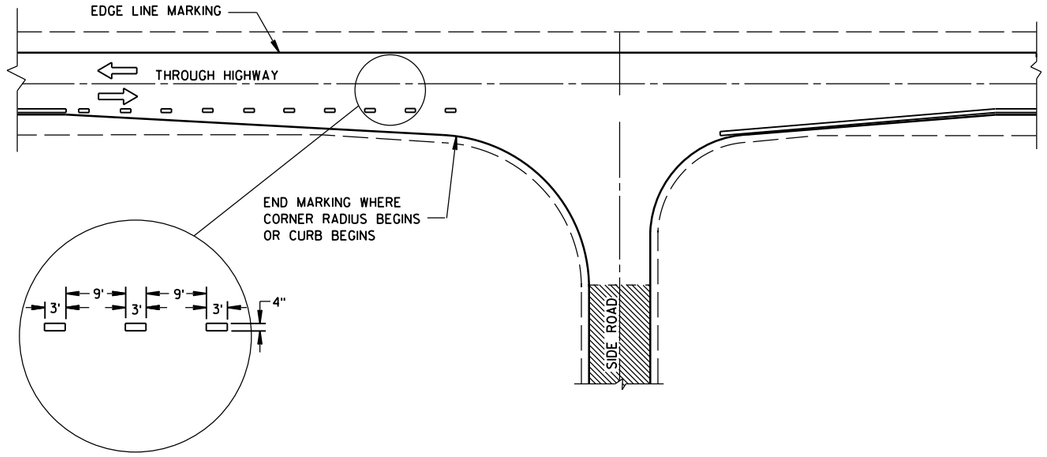
Sept., 2017 — DATE

/S/ Matthew R. Rauch — STATE SIGNING AND MAR[illegible]NEER

FHWA

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S.D.D. 15 C 33-3



MINOR INTERSECTION

GENERAL NOTES

OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES THROUGH DRIVEWAYS.

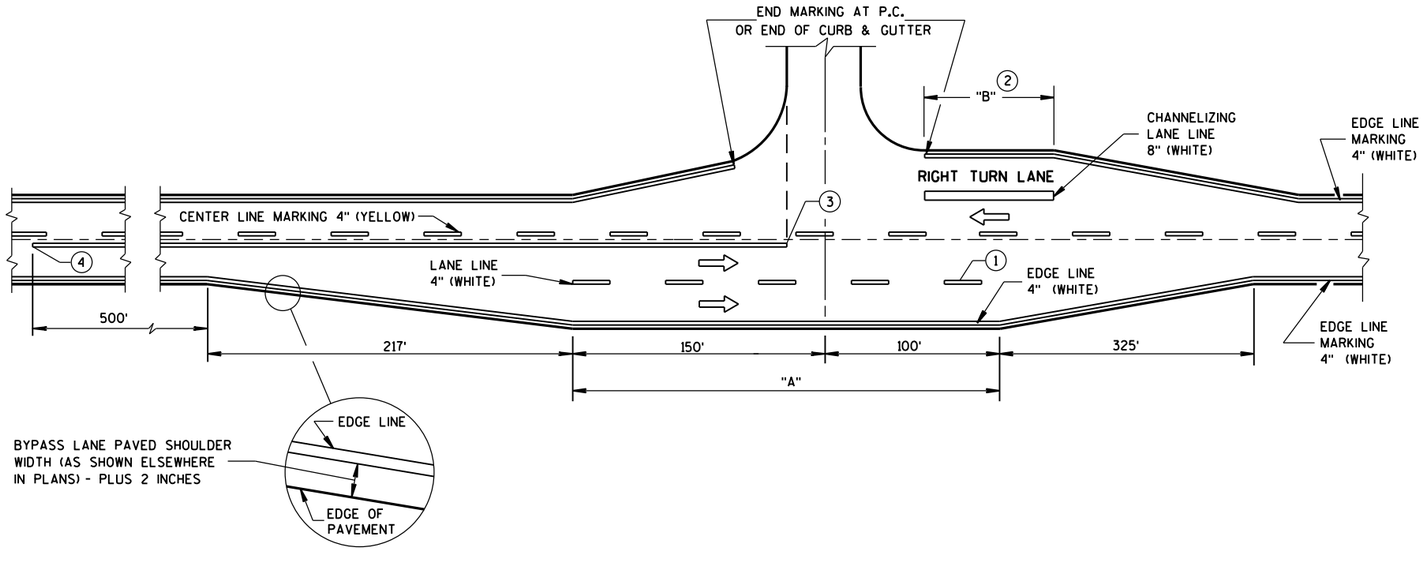
(1) WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.

(2) WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.

(3) BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.

(4) BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



MAJOR INTERSECTIONS

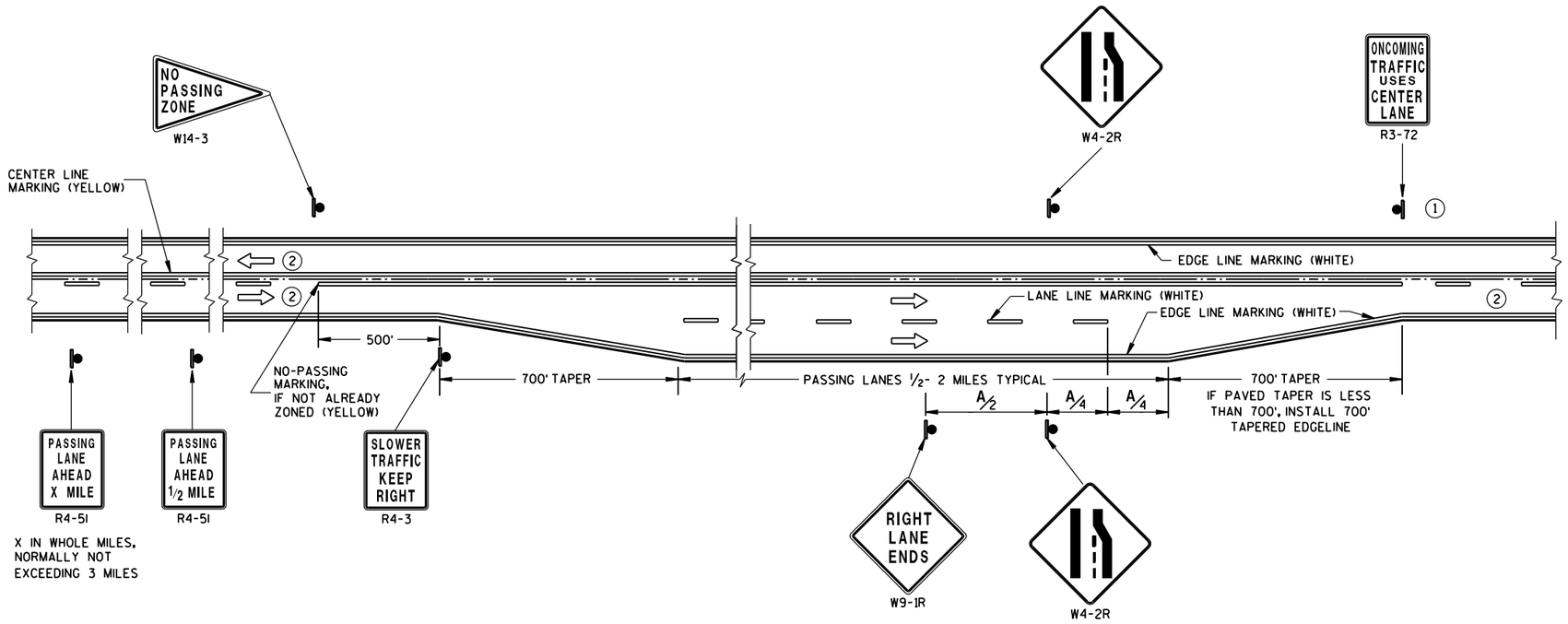
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

PAVEMENT MARKING
(INTERSECTIONS)

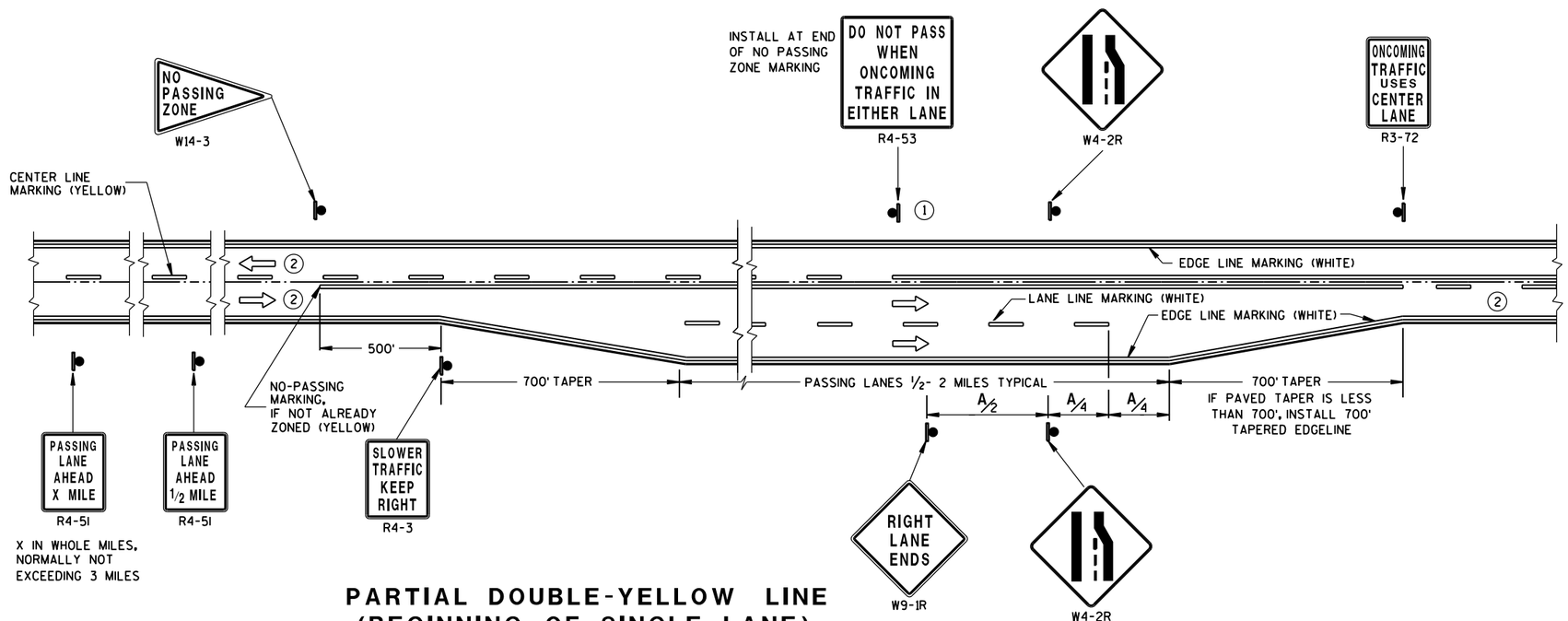
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 15 C 35-2a



SOLID DOUBLE-YELLOW LINE
(THROUGHOUT ENTIRE PASSING/CLIMBING LANE)



PARTIAL DOUBLE-YELLOW LINE
(BEGINNING OF SINGLE LANE)

GENERAL NOTES

1. SIGN SHALL BE REPEATED AT 1 MILE INCREMENTS OR AT THE DISCRETION OF THE REGIONAL TRAFFIC ENGINEER.
2. THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

DISTANCE TABLE

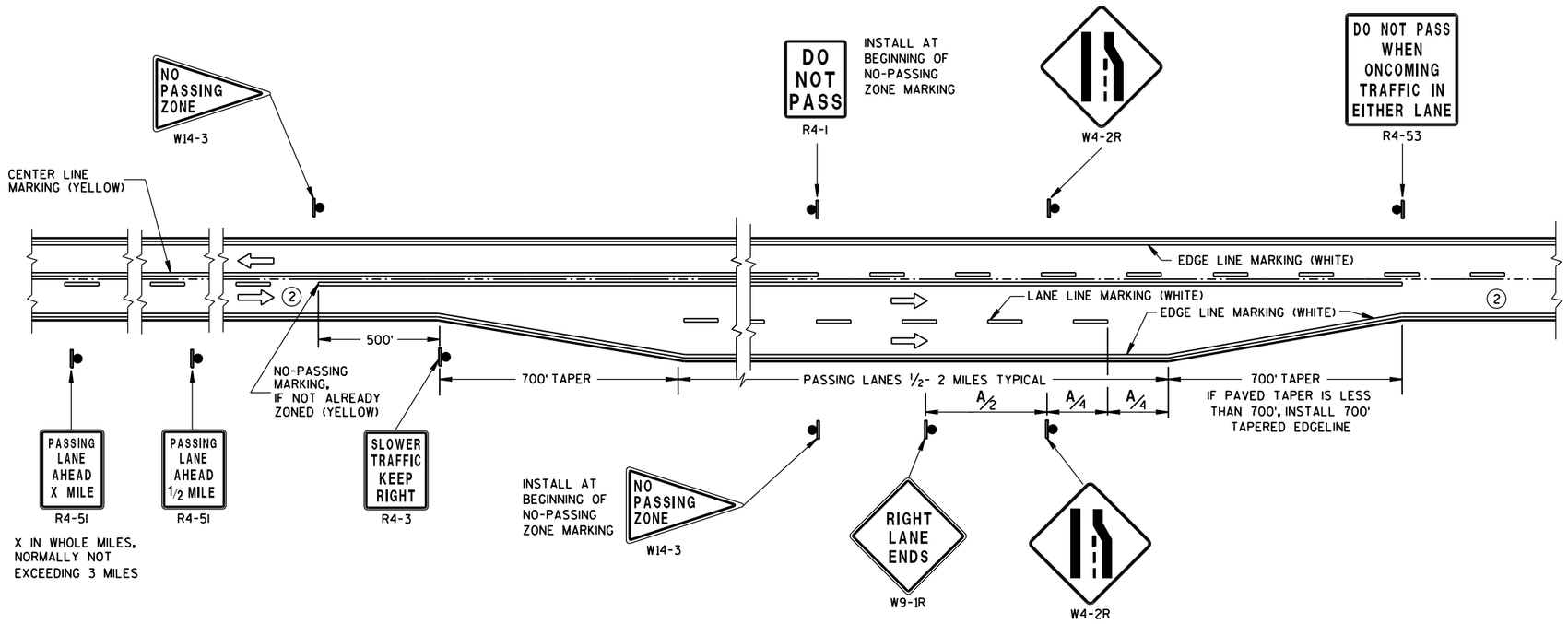
POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	775
50	850
55	950

PAVEMENT MARKING & SIGNING (CLIMBING LANE & PASSING LANE)

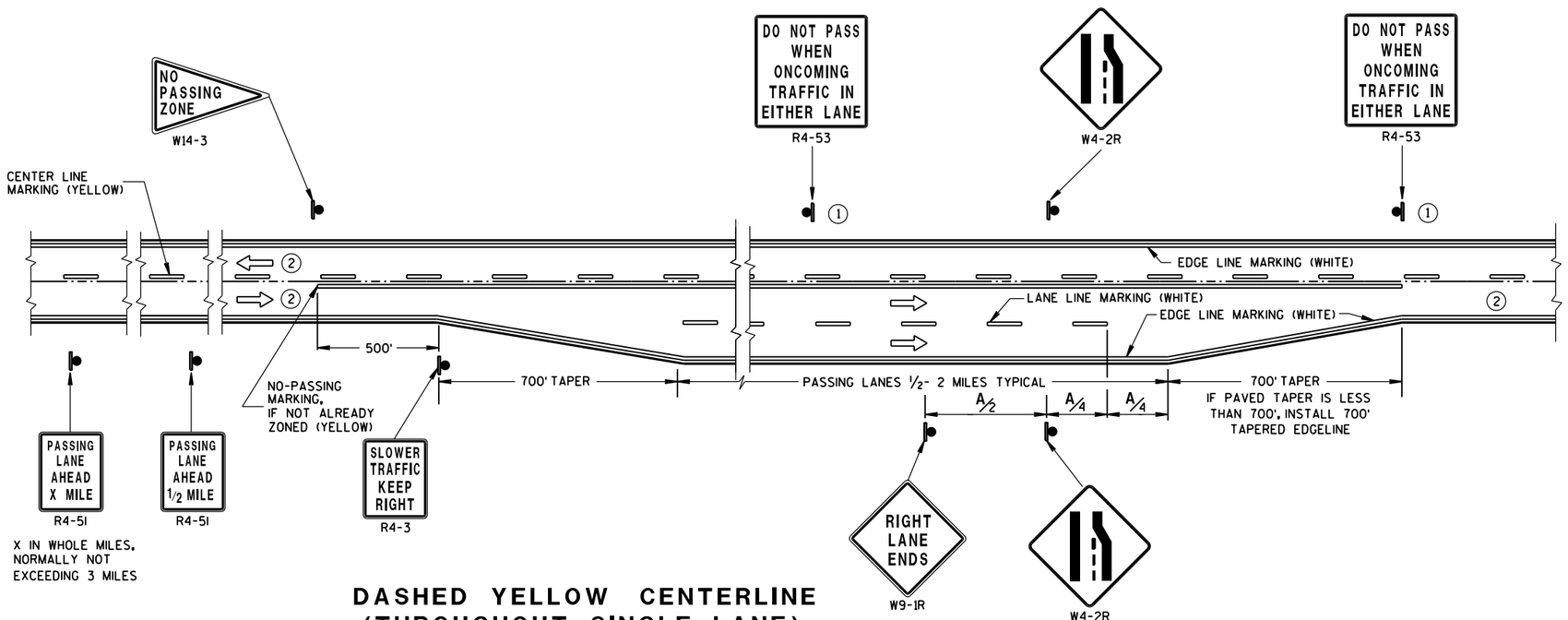
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 15 C 35-2b
S.D.D. 15 C 35-2b



SOLID DOUBLE-YELLOW LINE (END OF SINGLE LANE)



DASHED YELLOW CENTERLINE (THROUGHOUT SINGLE LANE)

GENERAL NOTES

1. SIGN SHALL BE REPEATED AT ONE MILE INCREMENTS OR AT THE DISCRETION OF THE REGIONAL TRAFFIC ENGINEER.
2. THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	775
50	850
55	950

PAVEMENT MARKING & SIGNING (CLIMBING LANE & PASSING LANE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MAR[illegible]INEER
FHWA

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S.D.D. 15 C 35-2c

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMENENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKING
- DIRECTION OF TRAFFIC
- WORK AREA

GENERAL NOTES

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

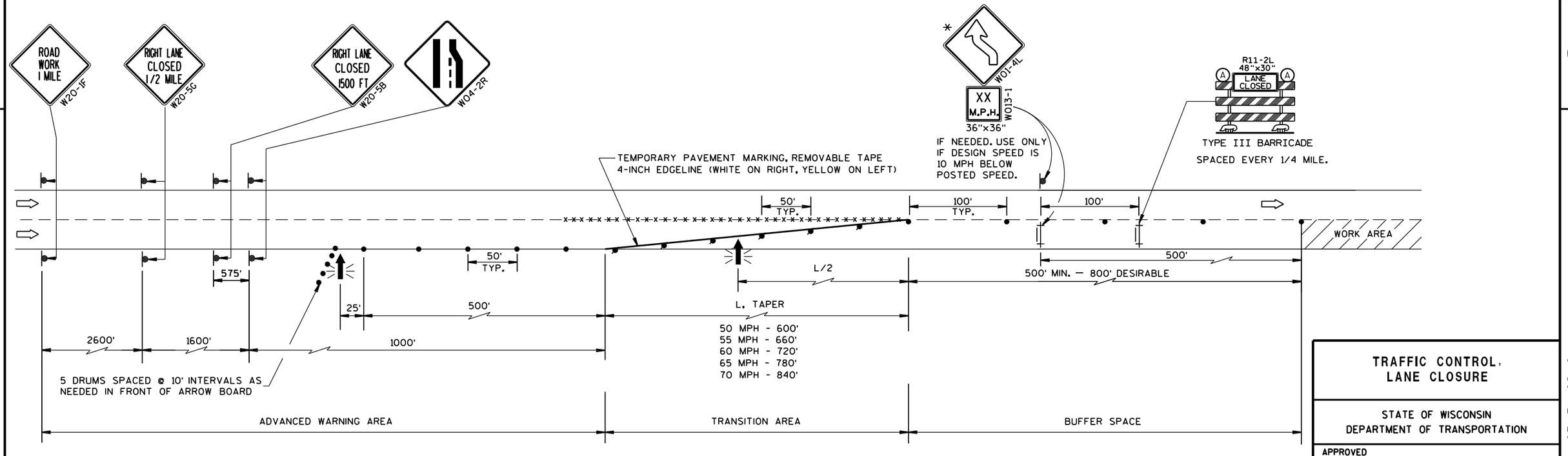
REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

* THE LEFT REVERSE CURVE SIGN (WO1-4L) IS ONLY REQUIRED WHEN THIS DETAIL IS USED IN COMBINATION WITH "SINGLE LANE CROSSOVER" DETAIL.



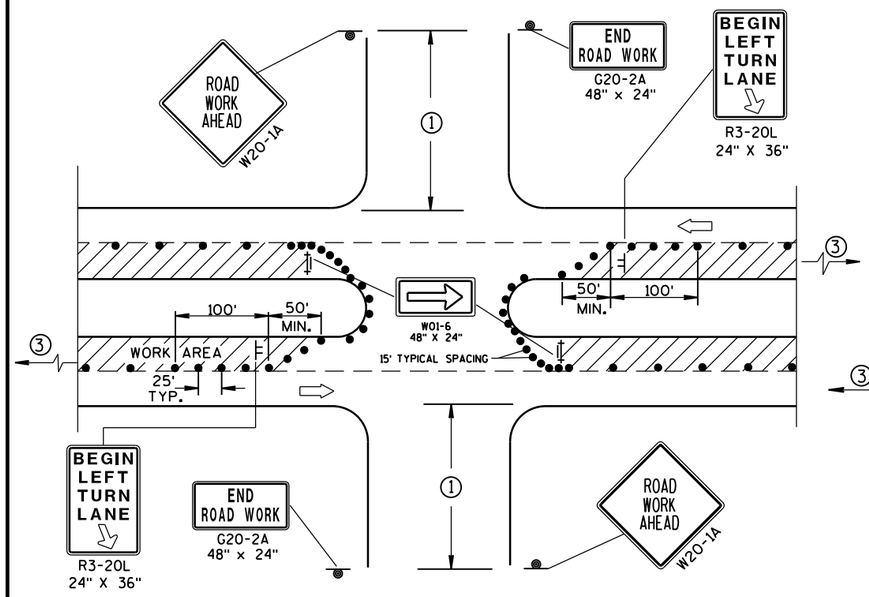
TRAFFIC CONTROL, LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2016 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA

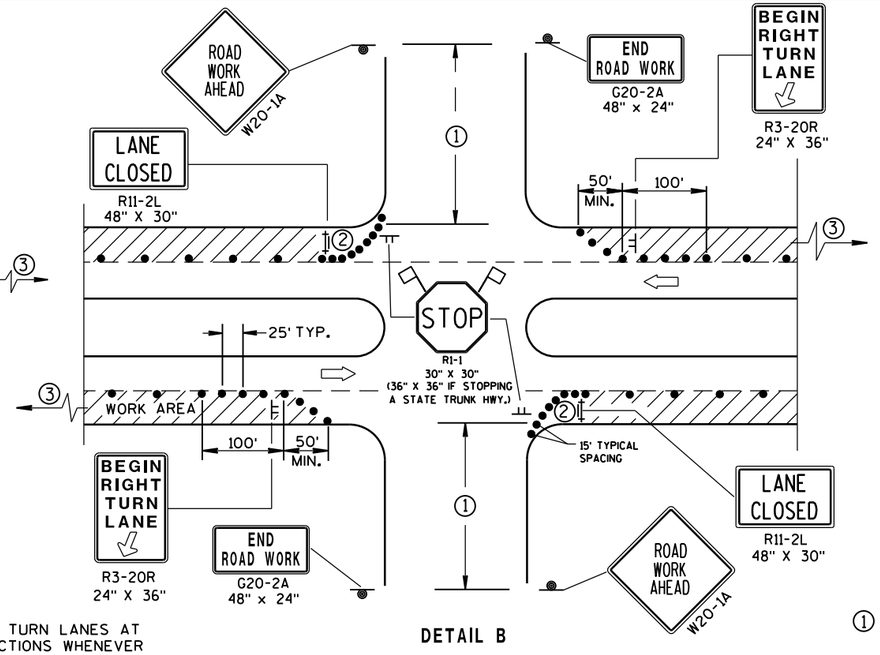
S.D.D. 15 D 12-6a

S.D.D. 15 D 12-6a



DETAIL A

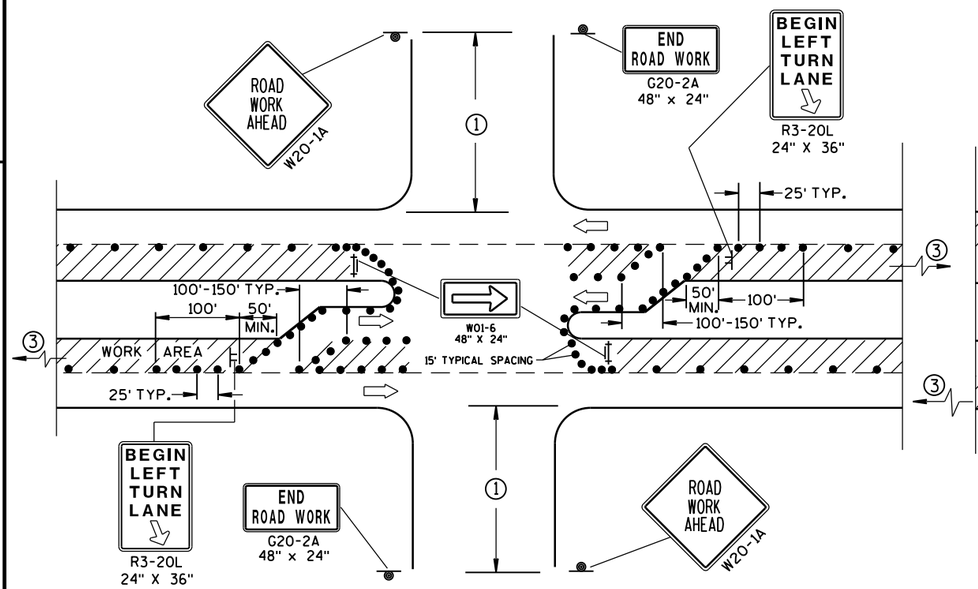
FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING



DETAIL B

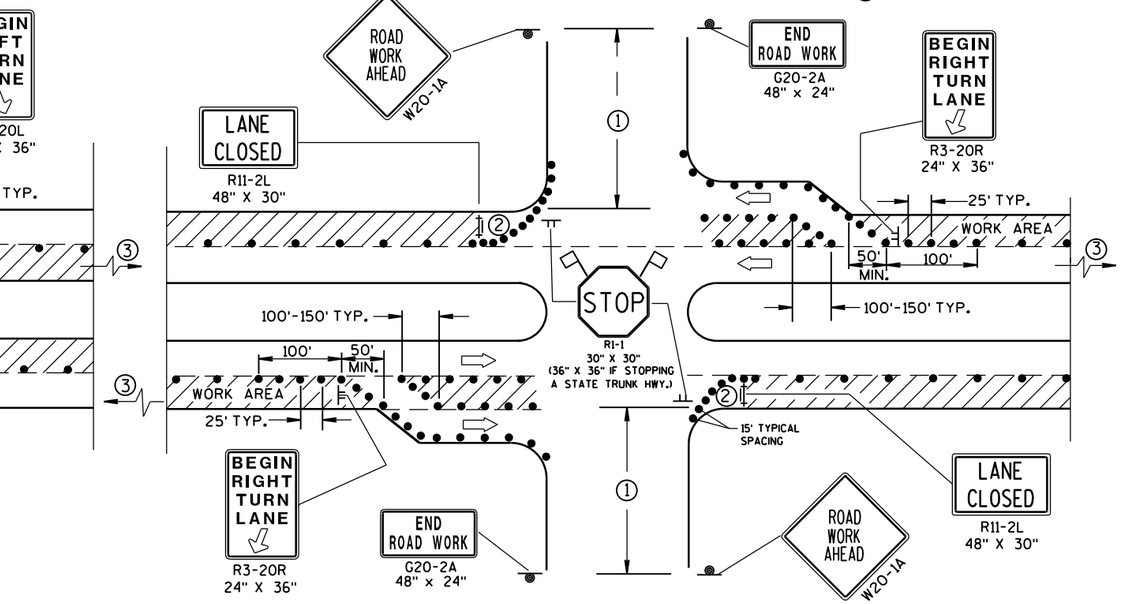
FOR RIGHT LANE CLOSURE AT INTERSECTION

PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.



DETAIL C

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING (WITH LEFT TURN BAY OPEN)



DETAIL D

FOR RIGHT LANE CLOSURE AT INTERSECTION (WITH RIGHT TURN BAY OPEN)

GENERAL NOTES

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

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

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

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

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

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

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

① 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35-40 MPH.
200' IF 25-30 MPH.

② ALSO USE BARRICADE AND 15-FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS.

③ SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT (5' MIN. MOUNTING HEIGHT)
- TYPE III BARRICADE WITH ATTACHED SIGN AND TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., (ORANGE)
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2017
DATE
/S/ Andrew Heidtke
WORK ZONE ENG
FHWA

6

S.D.D. 15 D 21-5

GENERAL NOTES

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

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

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

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

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

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

TABLE A

SHOULDER TAPER LENGTH (FEET)					BUFFER SPACE (FEET)
S \ W	4	6	8	10	
30	20	30	40	50	200
35	30	45	55	70	250
40	40	55	75	90	305
45	60	90	120	150	360
50	70	100	135	170	425
55	75	110	150	185	495

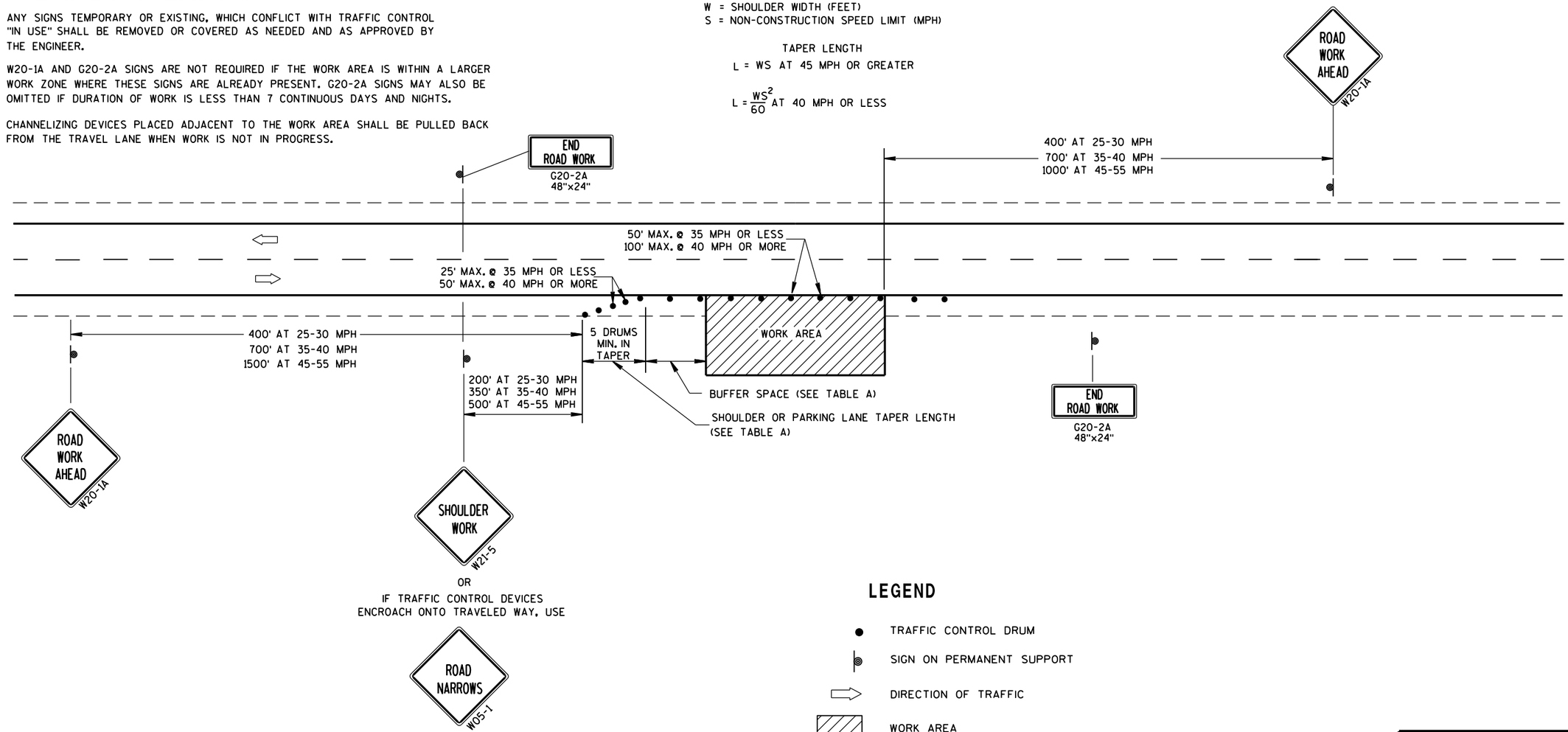
W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

TAPER LENGTH

L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

SHOULDER TAPER LENGTH = $\frac{1}{3}L$



LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

July 14, 2015 — DATE

/S/ Peter Amakobe Atepe — STATEWIDE WORK ZO[illegible] SAFETY ENGI[illegible] FIC

FHWA

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S.D.D. 15 D 28-3

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S.D.D. 15 D 28-3

LEGEND

- SIGN ON PERMANENT SUPPORT
- REMOVING PAVEMENT MARKING
- TYPE III BARRICADE WITH ATTACHED SIGN
- CONCRETE BARRIER TEMPORARY PRECAST
- FLAGS, 16" x 16" MIN., (ORANGE)
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- ASPHALTIC PAVEMENT WIDENING
- DIRECTION OF TRAFFIC
- 4" X 6" WOOD POST
- TEMPORARY SIGNAL WITH BACKPLATE AND 12-INCH LENSES ON BREAKAWAY POLE



INSTALL ON EACH APPROACH AT THE CLOSEST INTERSECTION WITH A STATE OR COUNTY TRUNK HIGHWAY, OR AS DIRECTED BY THE ENGINEER. WIDTH ON SIGN TO BE APPROX. 1-FOOT LESS THAN AVAILABLE WIDTH. (OMIT IF AVAILABLE WIDTH IS MORE THAN 16 FEET.)

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

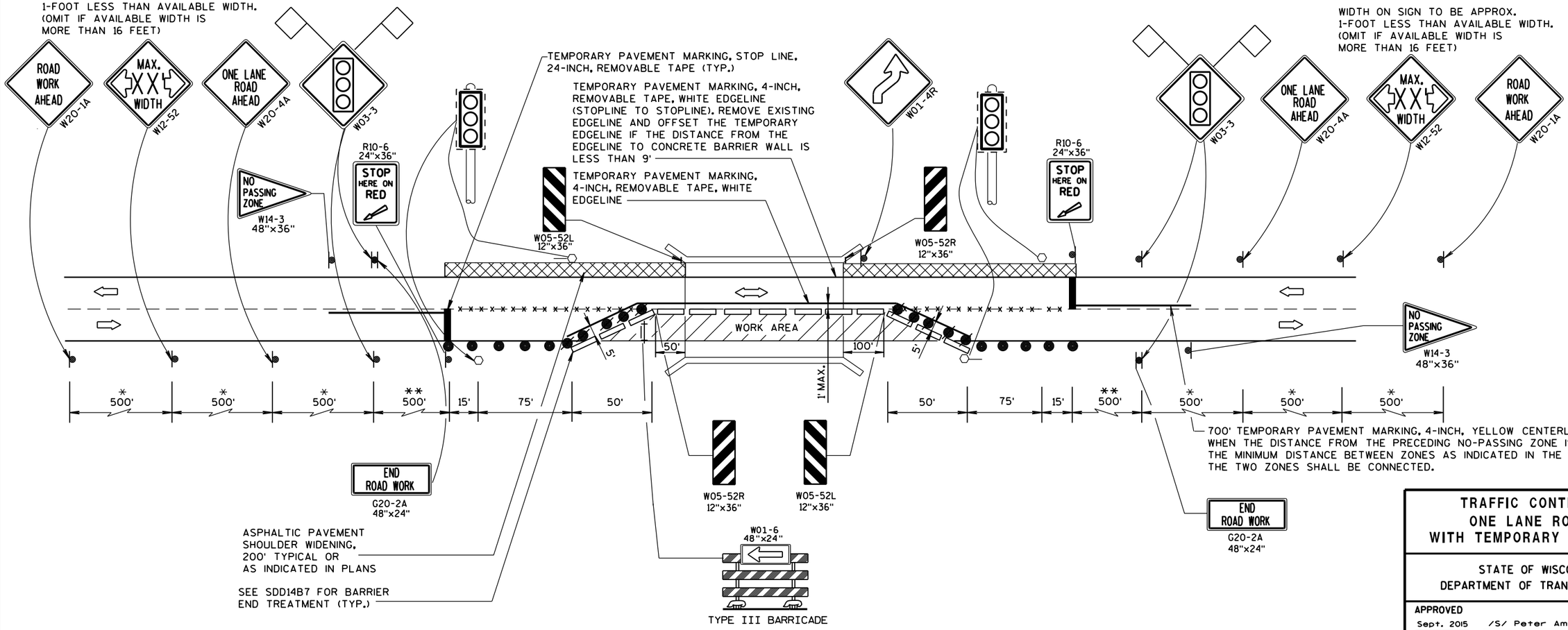
SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

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

PLACE TEMPORARY PAVEMENT MARKING EDGELINE AND CENTERLINE, AND REMOVE EXISTING PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS OR AS NOTED ON DETAIL.

* 500-FOOT SPACING SHOWN IS FOR ROADWAYS WITH A PRE-CONSTRUCTION REGULATORY SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350-FOOT TYPICAL SPACING. FOR 25-30 MPH, USE 200-FOOT TYPICAL SPACING.

** USE 300' SPACING IF PRE-CONSTRUCTION REGULATORY SPEED LIMIT IS 35 MPH OR LESS.

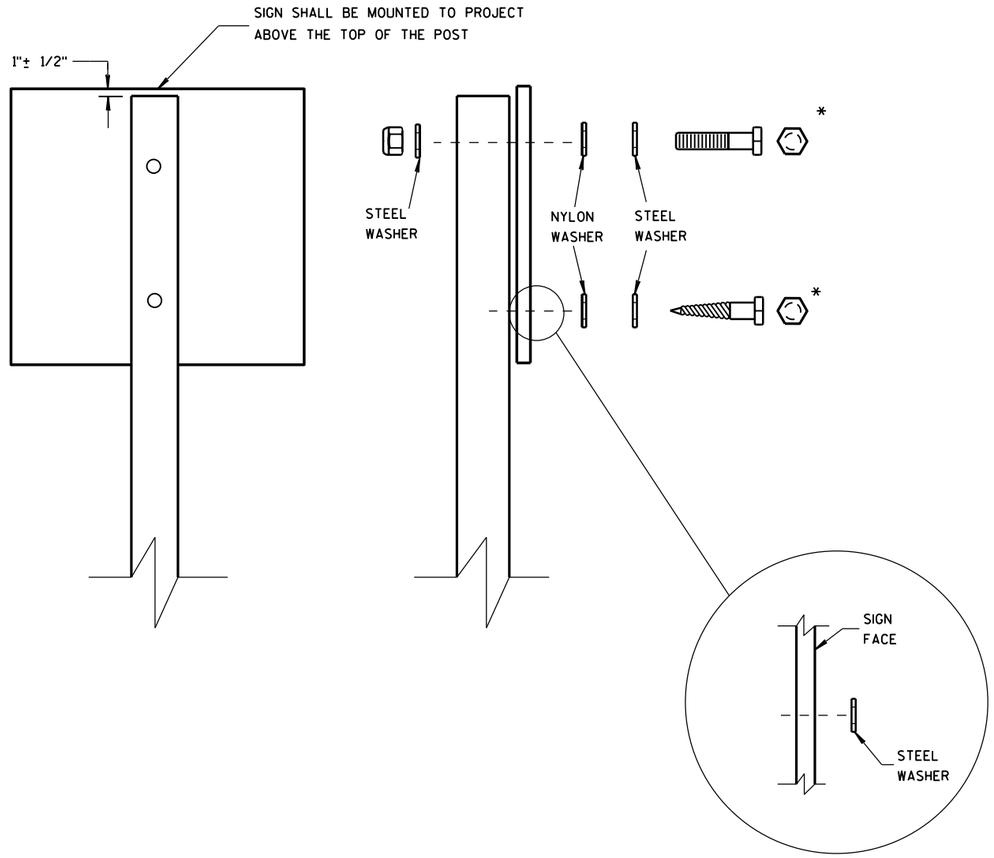


TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE SAFETY ENGINEER
FHWA

S.D.D. 15 D 33-4



WASHER PLACEMENT WHEN SIGN HAS OTHER THAN TYPE H OR TYPE F FACE

NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3

B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 5/16" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

6

6

S.D.D. 15 D 38-2b

S.D.D. 15 D 38-2b

ATTACHMENT OF SIGNS TO POSTS

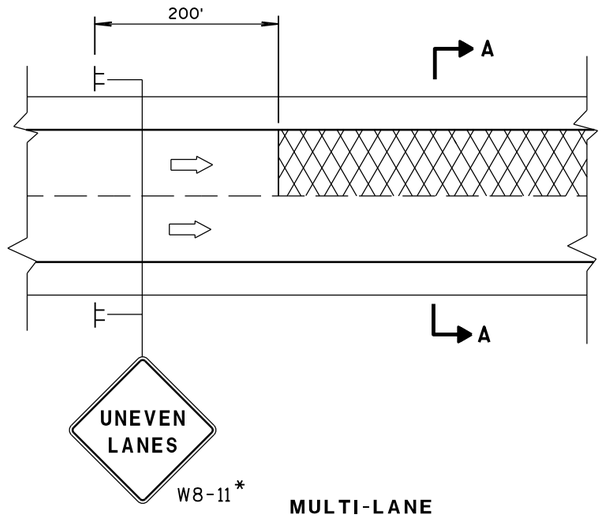
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

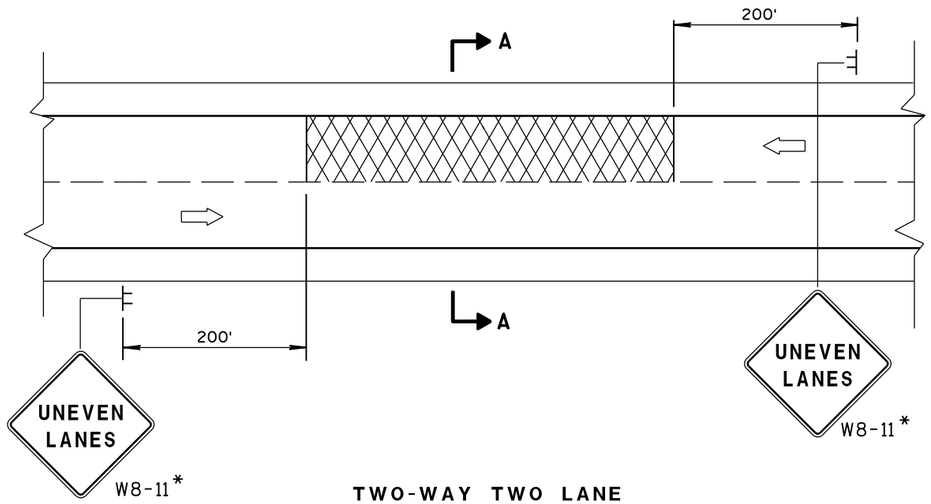
June 2017
DATE

/S/ Andrew Heldtke
WORK ZONE ENG

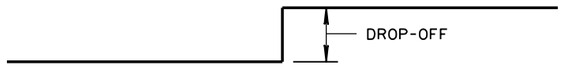
FHWA



MULTI-LANE

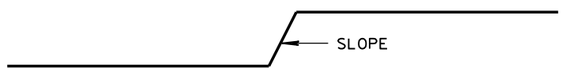


TWO-WAY TWO LANE

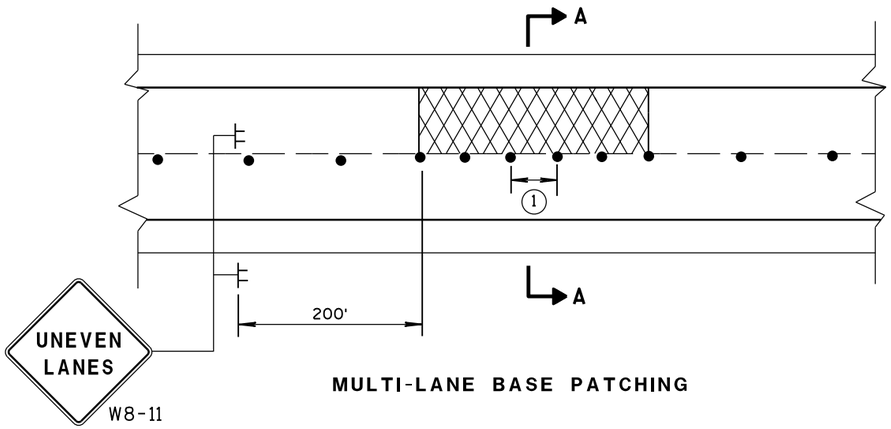


SECTION A-A

OR



SECTION A-A



MULTI-LANE BASE PATCHING

ADJACENT LANE DROP-OFFS

GENERAL NOTES

FOR SPOT LOCATIONS USE ENGINEERING JUDGEMENT WHEN PLACING ADDITIONAL SIGNS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

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

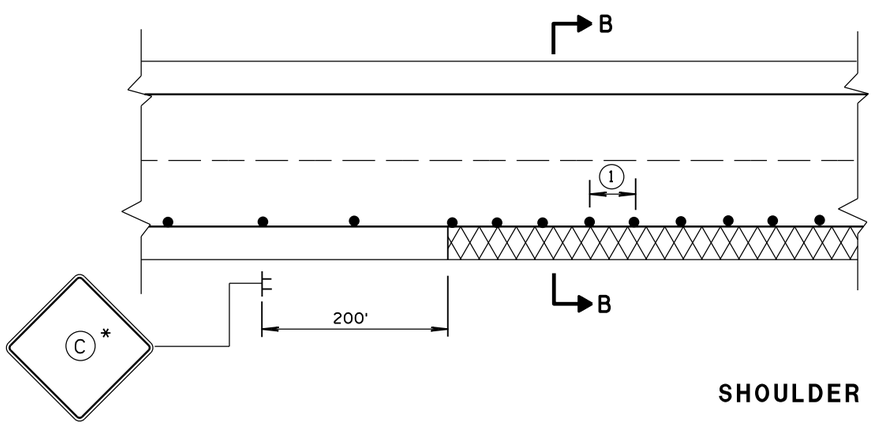
* IF THE DROP-OFF IS CONTINUOUS ALONG THE PROJECT, PLACE ADDITIONAL SIGNS EVERY 1/2 MILE.

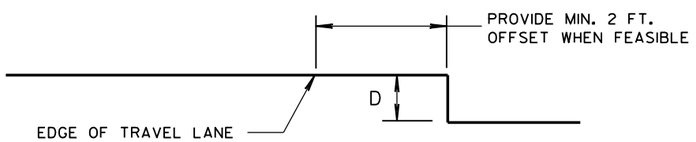
(1) USE CLOSER SPACING WHEN DELINEATING DROP-OFF.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- DIRECTION OF TRAFFIC
- WORK AREA WITH DROP-OFF

D	SIGN (C)
< 2" WITH A SLOPE STEEPER THAN 3:1	LOW SHOULDER W08-9
2" < 6" WITH A SLOPE STEEPER THAN 3:1	SHOULDER DROP-OFF W8-9A PROVIDE A 3:1 OR FLATTER SLOPE OF MATERIAL ADJACENT TO THE PAVEMENT





SECTION B-B

SHOULDER DROP-OFFS

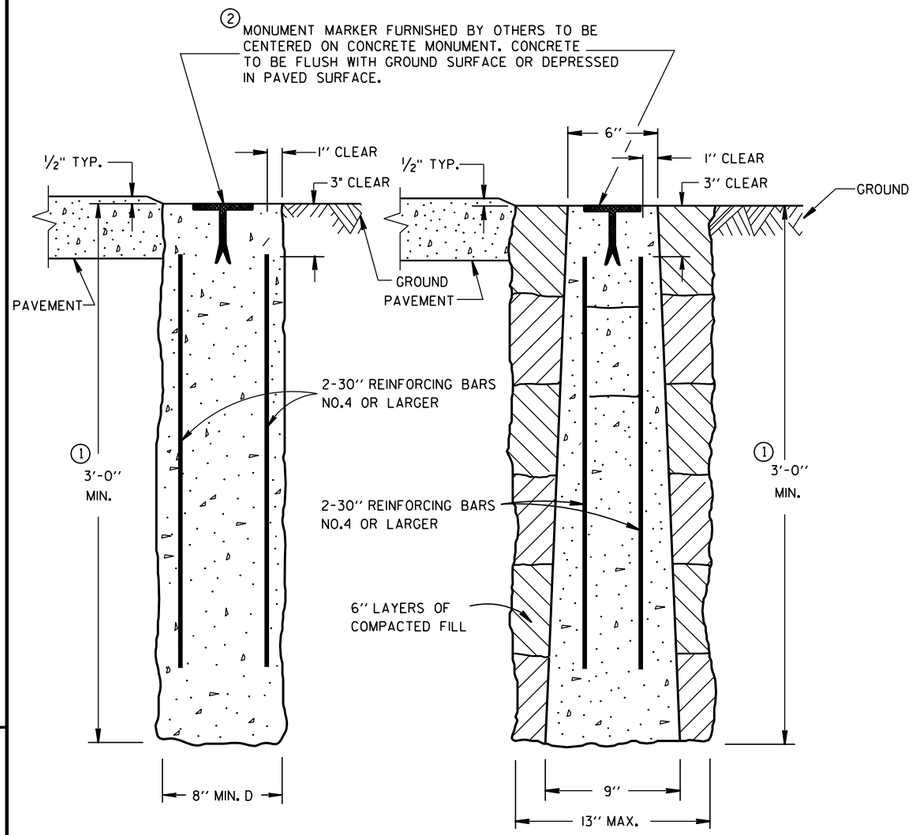
TRAFFIC CONTROL, DROP-OFF SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March, 2017 — DATE
/S/ Andrew Heldtke — WORK ZONE ENGI
FHWA

6

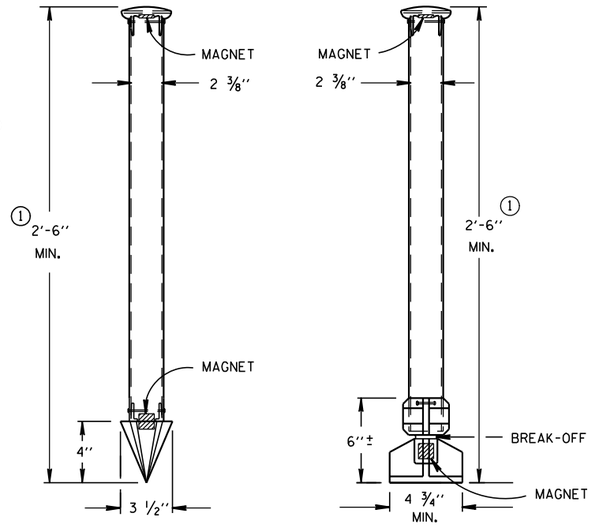
S.D.D. 15 D 39-1



CAST-IN-PLACE PRECAST

CONCRETE MONUMENTS

TYPE A



TYPE C DRIVE-IN MONUMENT

TYPE D BREAK-OFF MONUMENT

ALUMINUM MONUMENTS

(INCLUDES MARKER)

GENERAL NOTES

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

DETAILED DRAWINGS OF PROPOSED ALTERNATE DESIGNS FOR METAL MONUMENTS OR MONUMENT COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

INSTALLED METAL MONUMENTS MUST BE EASILY DETECTED WITH A DIP NEEDLE. INSERT PERMANENT MAGNETS SHALL BE ATTACHED NEAR THE TOP AND BOTTOM OF THOSE MONUMENTS CONSTRUCTED OF A METAL ALLOY WHICH IS NOT ATTRACTIVE TO A DIP NEEDLE.

THE CAST IRON MONUMENT COVER SHALL BE A "NON-ROCKING" TYPE. ADJUSTMENT OF THE COVER TO GRADE MAY BE ACCOMPLISHED BY THE USE OF MORTAR AND BRICK, OR BY EITHER PRECAST OR CAST-IN-PLACE REINFORCED CONCRETE GRADE RINGS.

MONUMENTS SHALL BE LOCATED AND PLACED AT THE DIRECTION OF THE ENGINEER.

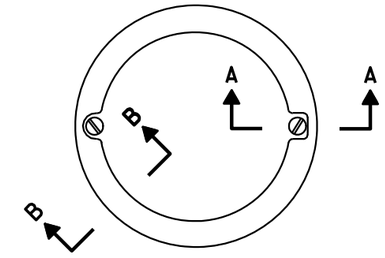
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

THE MONUMENT COVERS DETAILED ON THIS DRAWING ARE NOT EQUAL ALTERNATES. MONUMENT COVERS SHALL BE CAST IRON UNLESS ALUMINUM IS SPECIFIED ELSEWHERE IN THE CONTRACT.

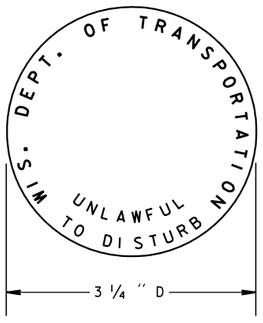
MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER.

① MINIMUM LENGTH SHALL BE 4'-0" FOR MONUMENTS INSTALLED IN PAVED AREAS.

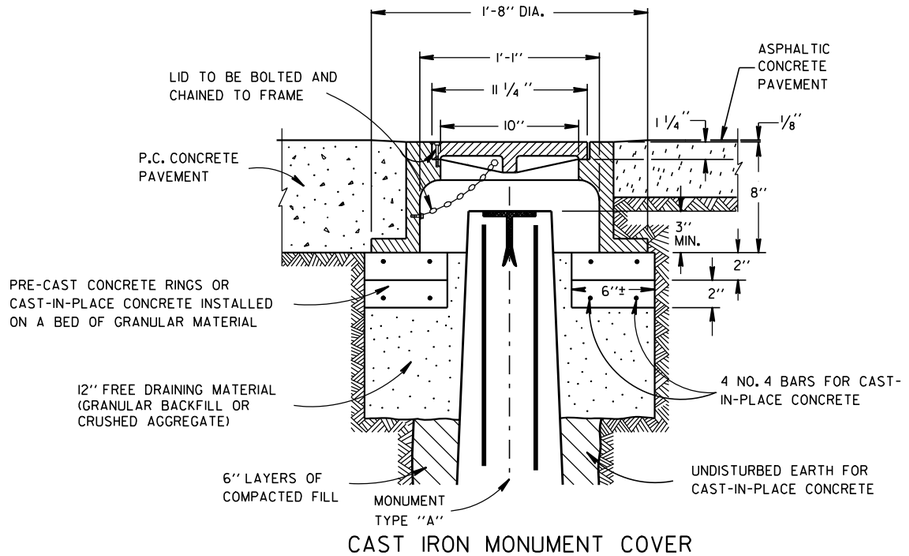
② AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY MAY BE REQUIRED FOR SOME SECTION CORNERS AND WITNESS MONUMENTS INSTEAD OF THIS WIS DOT MARKER.



TOP VIEW

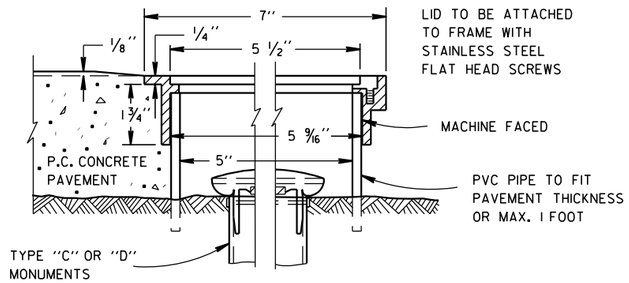


② WIS DOT MONUMENT MARKER LOGO FOR TYPES "A", "C" & "D"



CAST IRON MONUMENT COVER

(APPROXIMATE WEIGHT - 95 LBS.)



SECTION B-B SECTION A-A

ALUMINUM MONUMENT COVER

(APPROXIMATE WEIGHT 2 LBS)

(FOR CONCRETE PAVEMENT ONLY)

LANDMARK REFERENCE MOUNMENTS AND COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

9/22/1999 DATE

/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

6

S.D.D. 16 A 1-6

NOTES

1. Signs are Type II- Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E



D2-1;
2.250" Radius, 0.750" Border

7

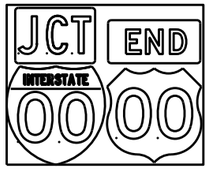
7

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	PERMANENT SIGNING	SHEET NO: 307	E

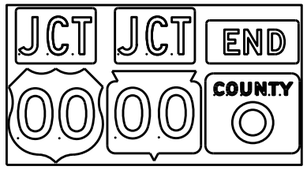
TYPICAL ASSEMBLIES



J1-1



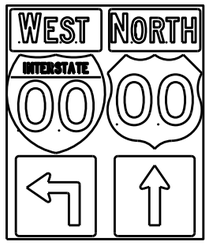
J1-2



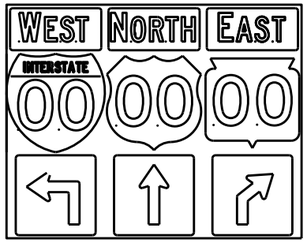
J1-3



J2-1



J2-2

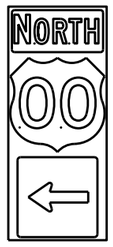


J2-3

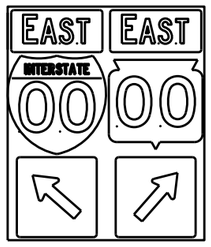


JV

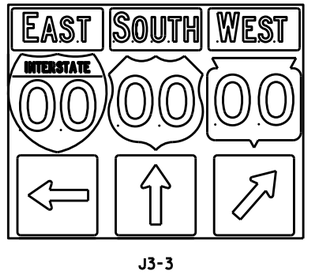
(Typical Vertical J-Assembly
See Note 10 and 11)



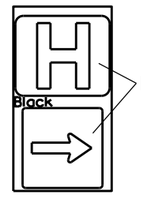
J3-1



J3-2



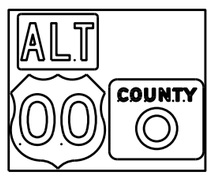
J3-3



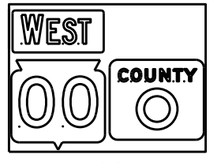
JH-1



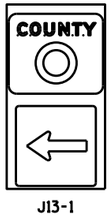
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1

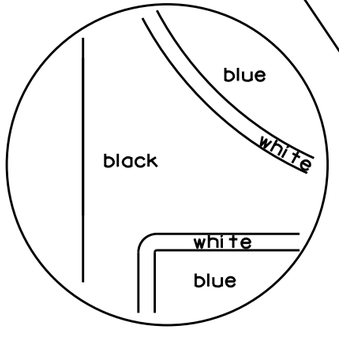


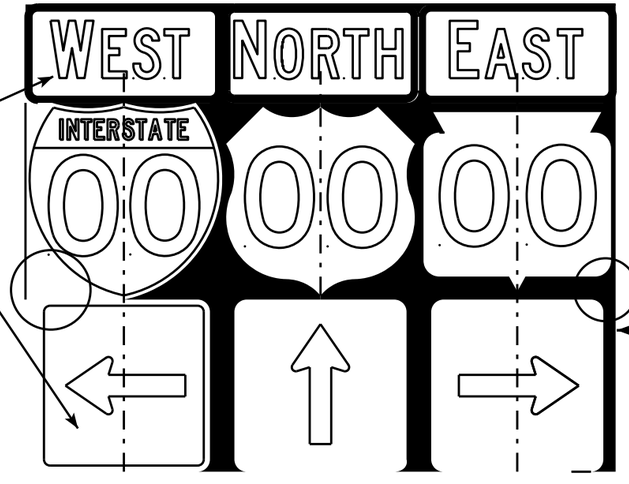
J23-1

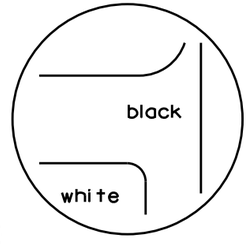


J22-1

[blue background with interstate]







[black background]

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

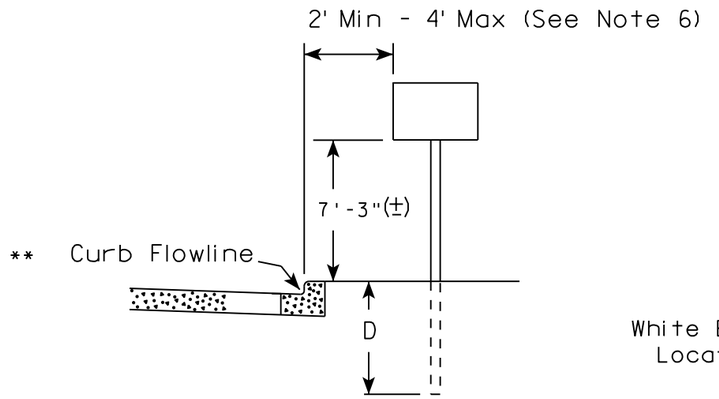
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/06/14 PL... A2-1S.8

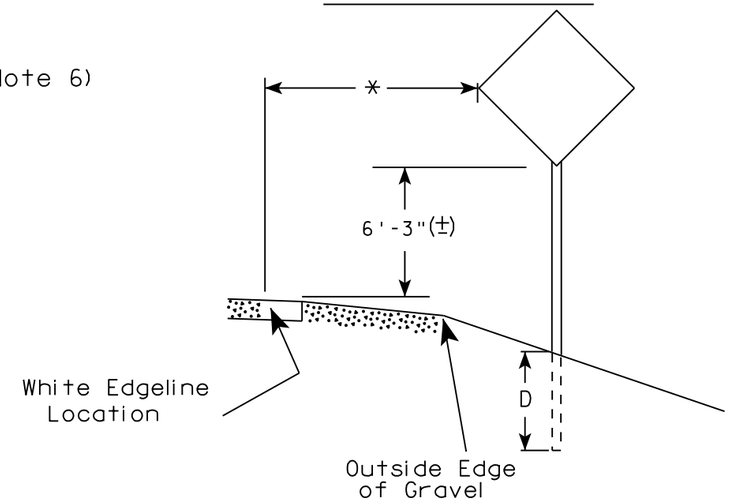
PROJECT NO: | SHEET NO: E

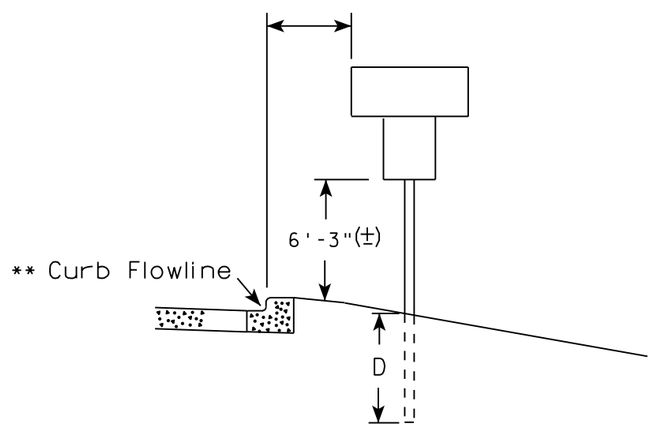
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A21S.DGN PLOT DATE : 06-FEB-2014 14:10 PLOT BY : mscsja PLOT NAME :
WISDOT/CADDS SHEET 42

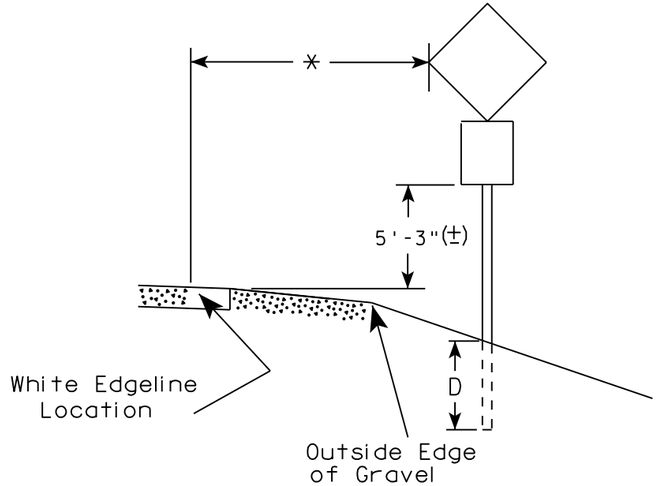
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq.Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

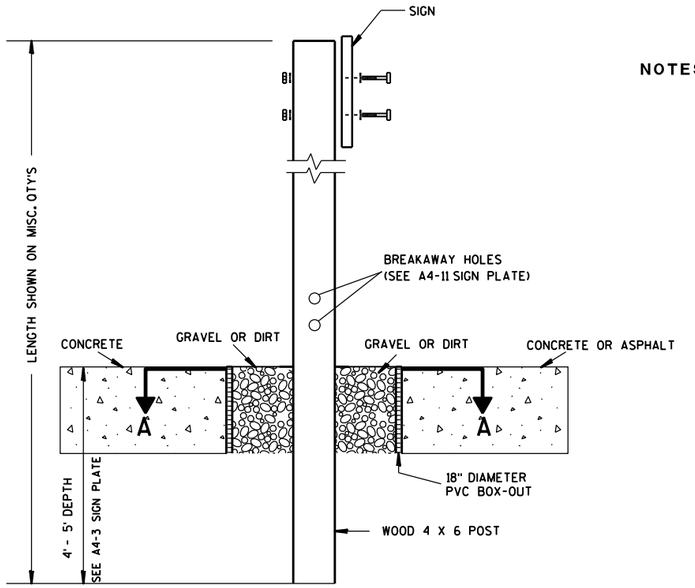
1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. J-Assemblies are considered to be one sign for mounting height.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

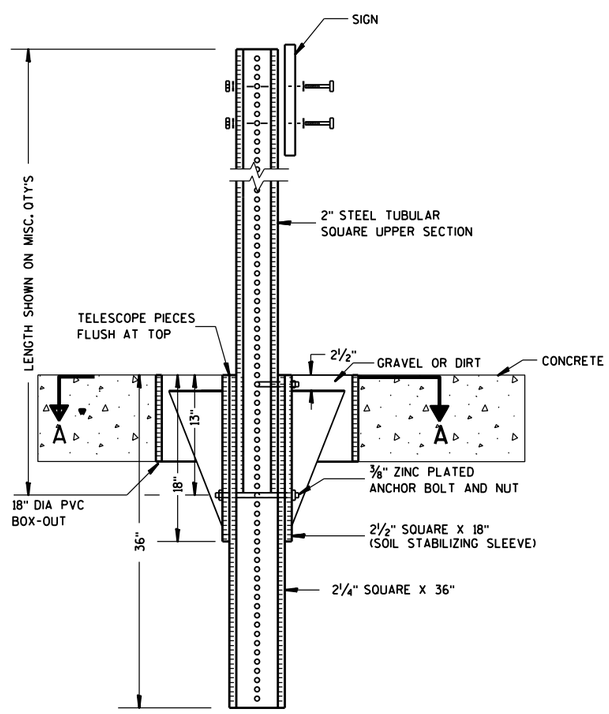
DATE 8/21/17 PLATE NO. A4-3.21



ELEVATION VIEW

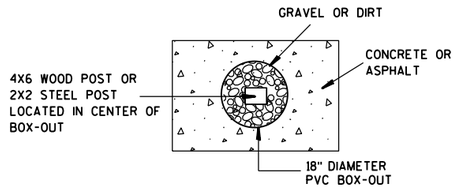
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

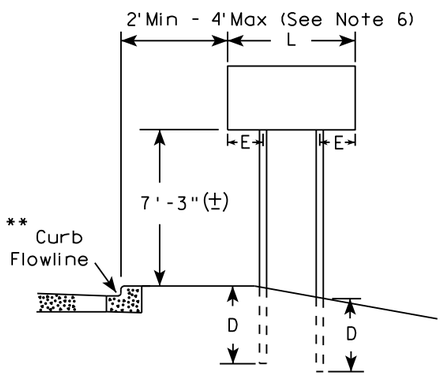
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

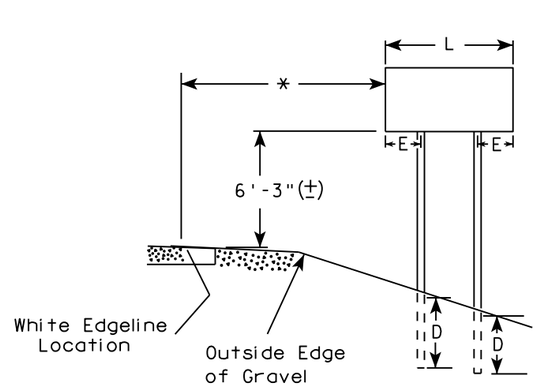
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

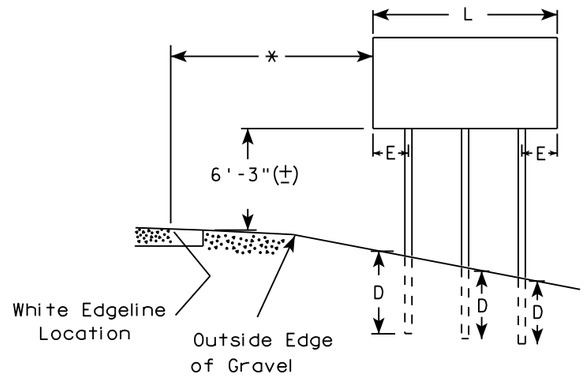
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

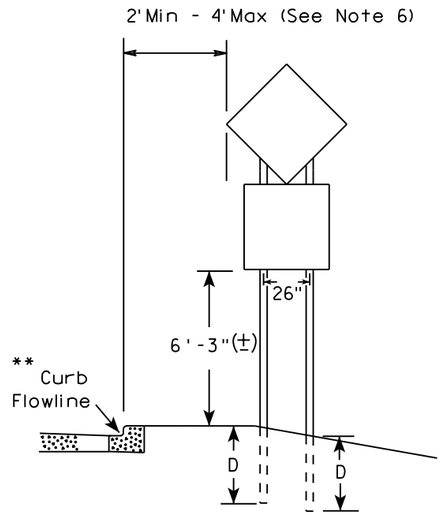
URBAN AREA



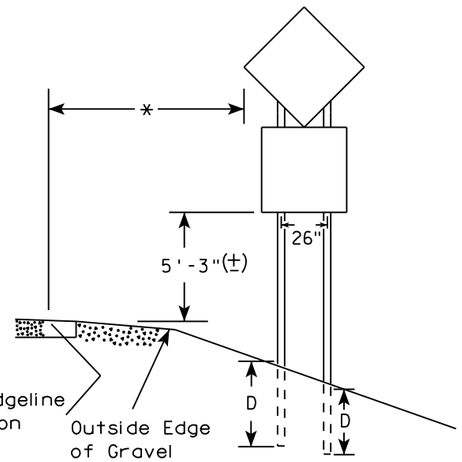
RURAL AREA (See Note 3)







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" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

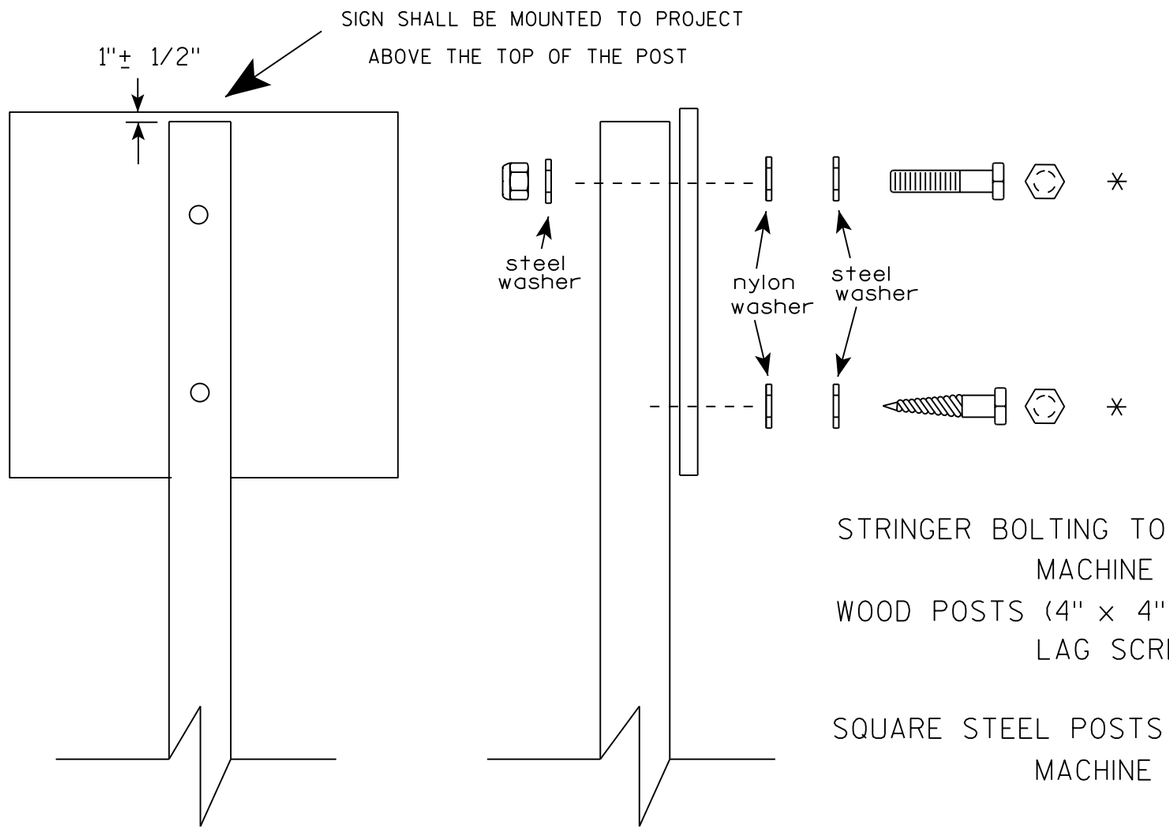
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 311	E



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)

3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)

3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 8/11/16 PLATE NO. A4-8.8

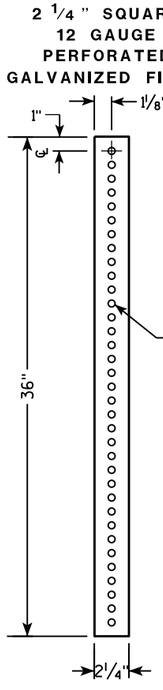
PROJECT NO:

SHEET NO: E

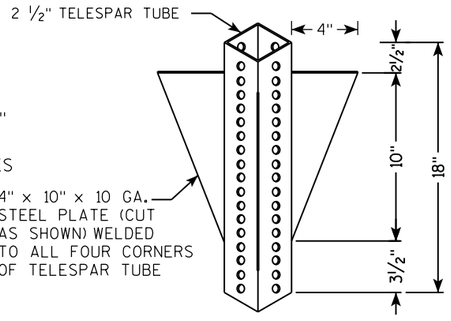
FILE NAME : C:\CADfiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 11-AUG-2016 11:35 PLOT BY : $$ plotuser $$

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

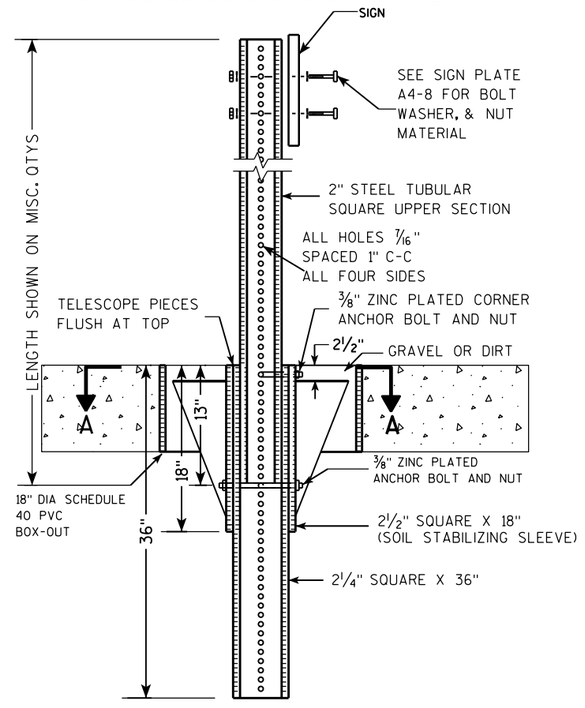
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



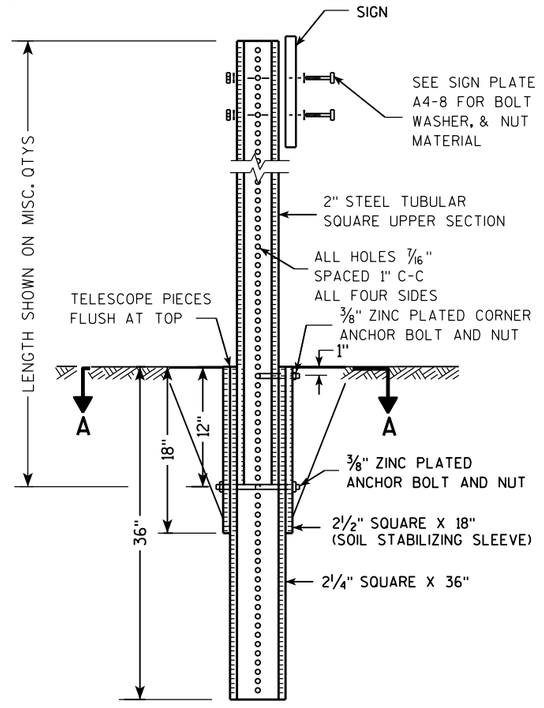
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

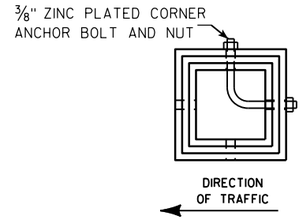


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

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

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

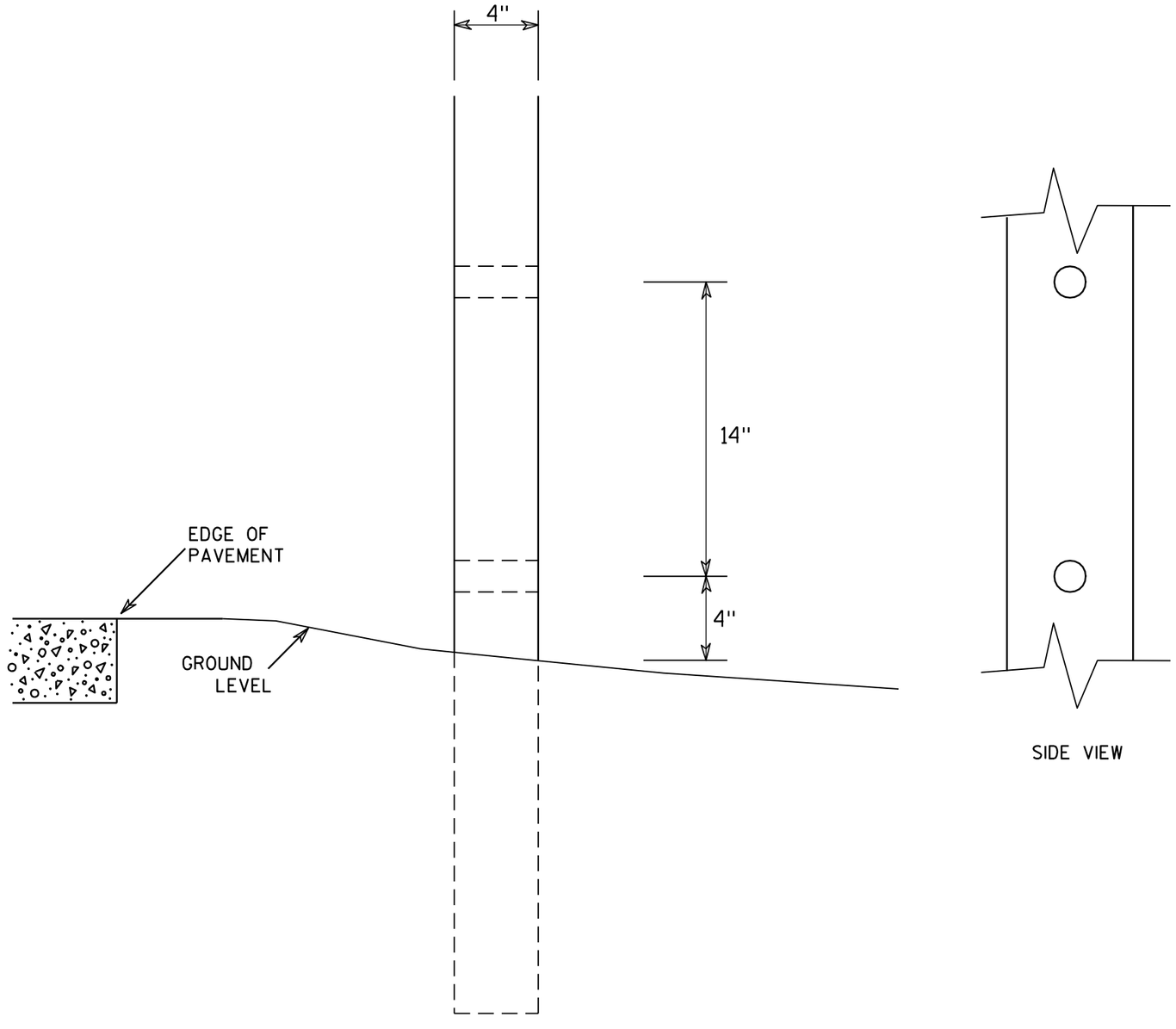
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 313 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

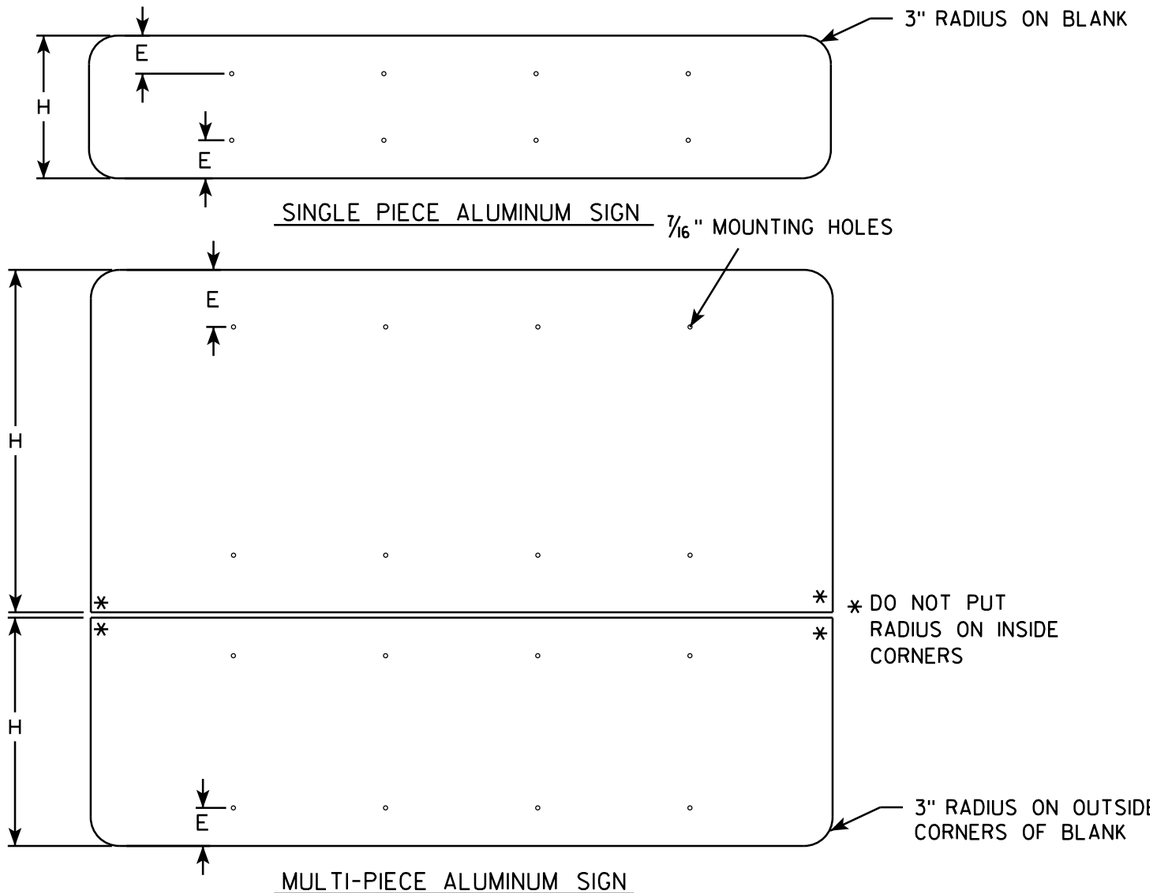
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

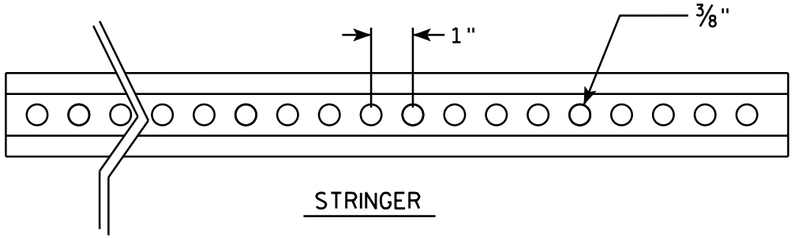
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 314	E



GENERAL NOTES

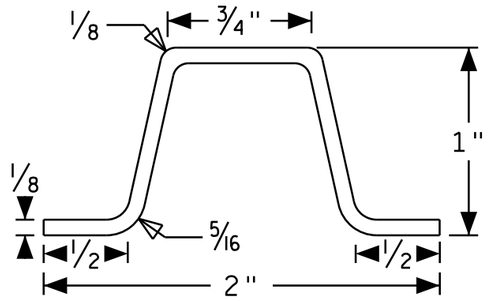
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING	MOUNTING HOLES
78"	72"	2	16"	15" 31" 47" 63"
84"	72"	2	17"	16½" 33½" 50½" 67½"
90"	72"	2	18"	18" 36" 54" 72"
96"	90"	2	19"	19½" 38½" 57½" 76½"
102"	90"	2	20"	21" 41" 61" 81"
108"	90"	2	21"	22½" 43½" 64½" 85½"
114"	108"	3	15"	12" 27" 42" 57" 72" 87" 102"
120"	108"	3	16"	12" 28" 44" 60" 76" 92" 108"
126"	108"	3	17"	12" 29" 46" 63" 80" 97" 114"
132"	126"	3	18"	12" 30" 48" 66" 84" 102" 120"
138"	126"	3	19"	12" 31" 50" 69" 88" 107" 126"
144"	126"	3	20"	12" 32" 52" 72" 92" 112" 132"

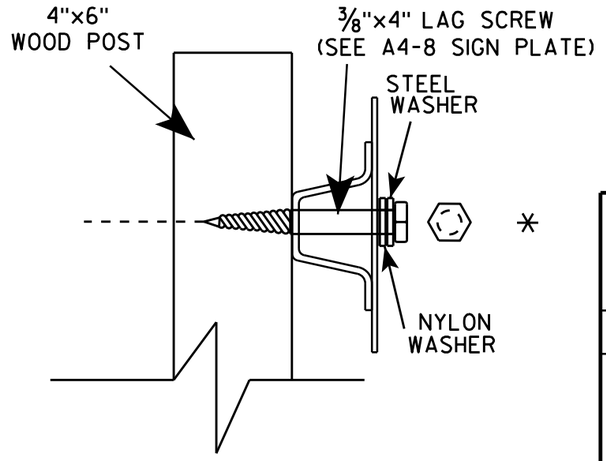


STRINGER

CROSS SECTION VIEW OF CHANNEL



POST MOUNTING



SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

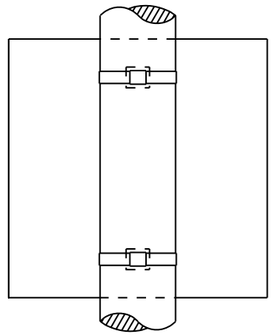
DATE 4/26/16 PLATE NO A4-18.1

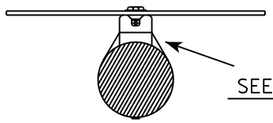
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A418.dgn PLOT DATE : 27-APR-2016 13:56 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 41.805205:1.000000 WISDOT/CADDS SHEET 42

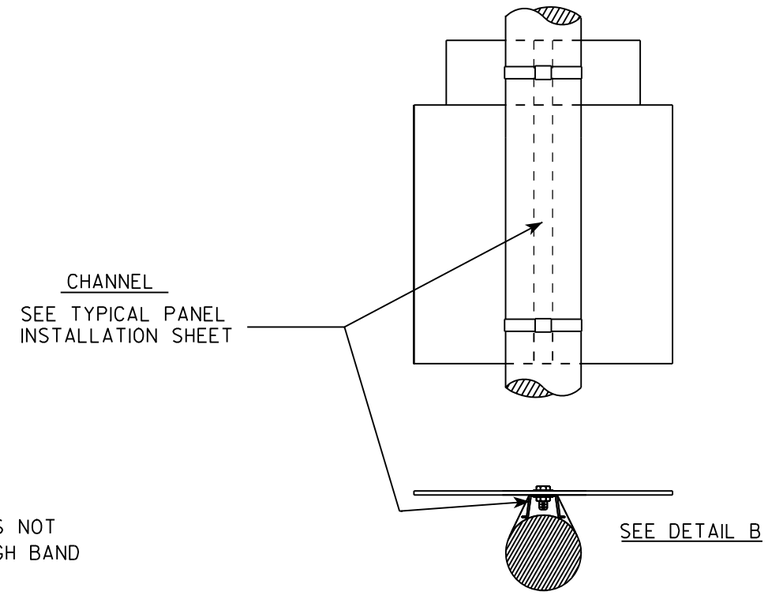
BANDING

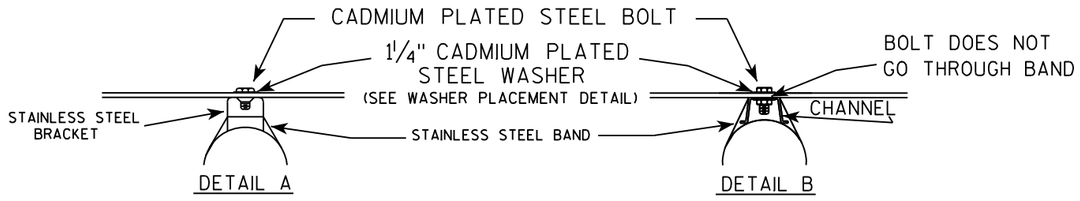
SINGLE SIGN



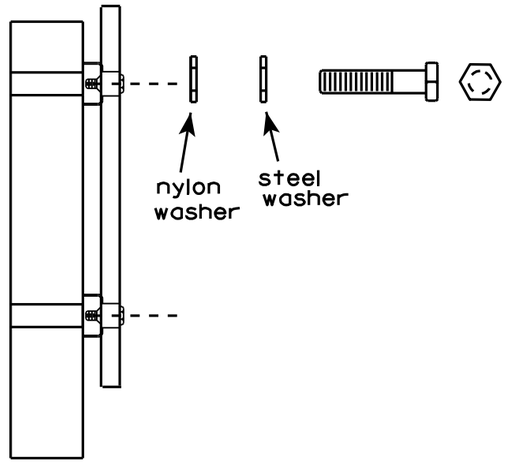


"J" ASSEMBLY





WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be 3/4" in width and 0.025" thickness.

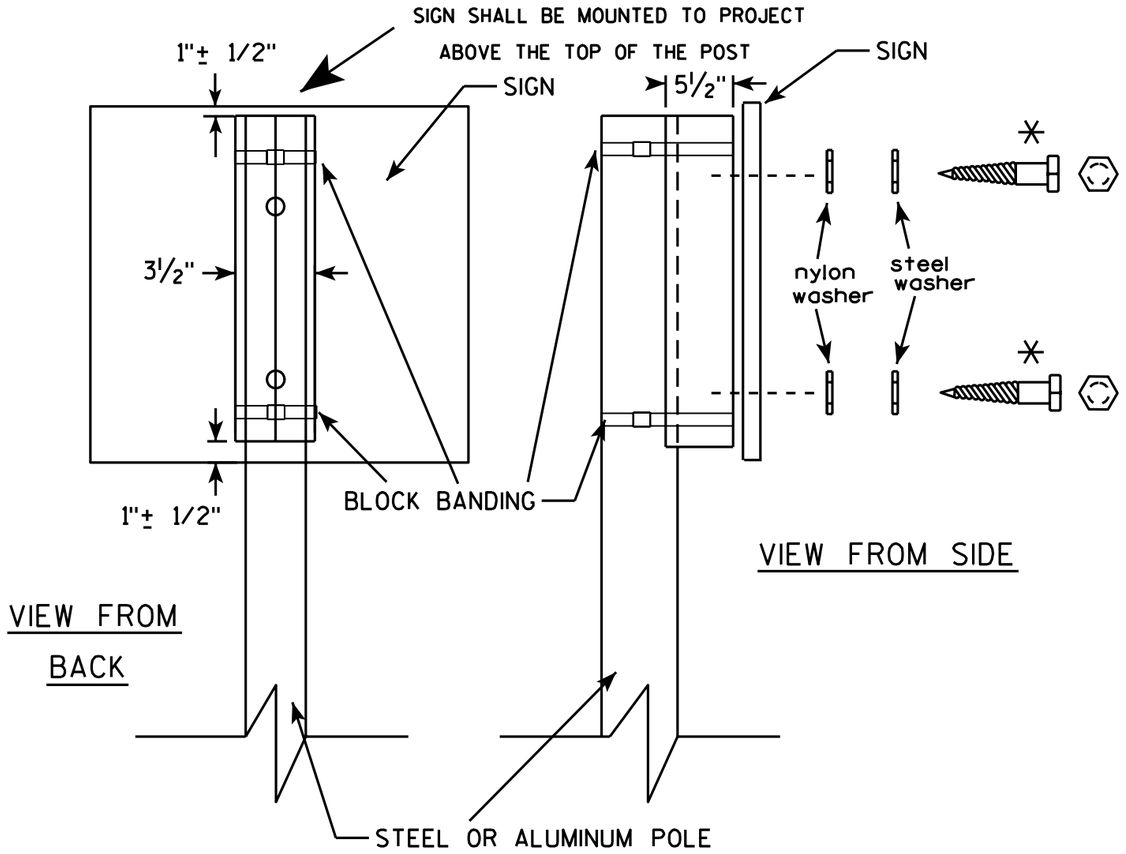
STANDARD SIGN
SIGN BANDING DETAILS

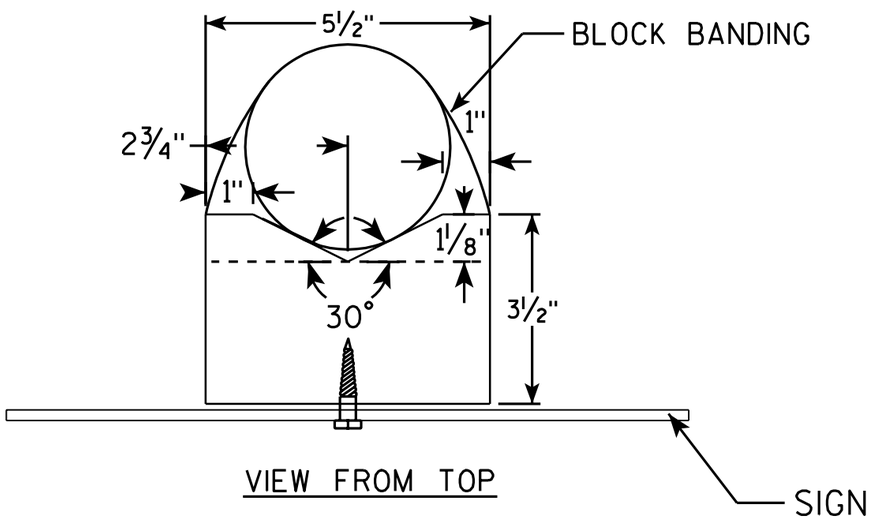
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 8/16/13 PLATE NO. A5-9.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 316	E





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D, or
   b. Cadmium plated in accordance with ASTM Designation : B 766 TYPE 3, Class 12, or
   c. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

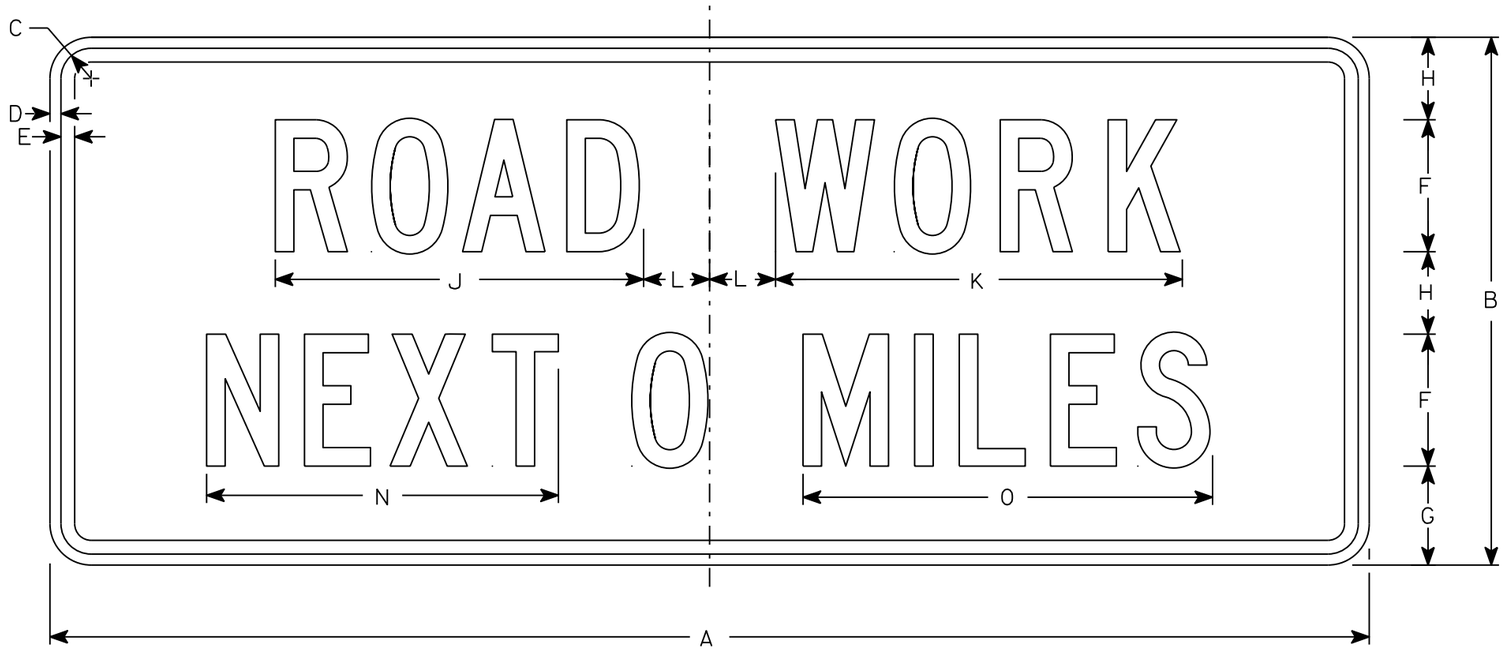
DATE 7/12/07 PLATE NO. A5-10.1

PROJECT NO:

SHEET NO: 317 E

FILE NAME : C:\Users\Projects\tr_stdplate\A510.dgn PLOT DATE : 06-AUG-2007 13:37 PLOT BY : ditjph

WISDOT/CADDS SHEET 42



G20-1

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Round distance to nearest whole Mile and substitute appropriate numerals and optically adjust spacing to achieve proper balance

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 5/8												10
3																											
4	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 5/8												10
5																											

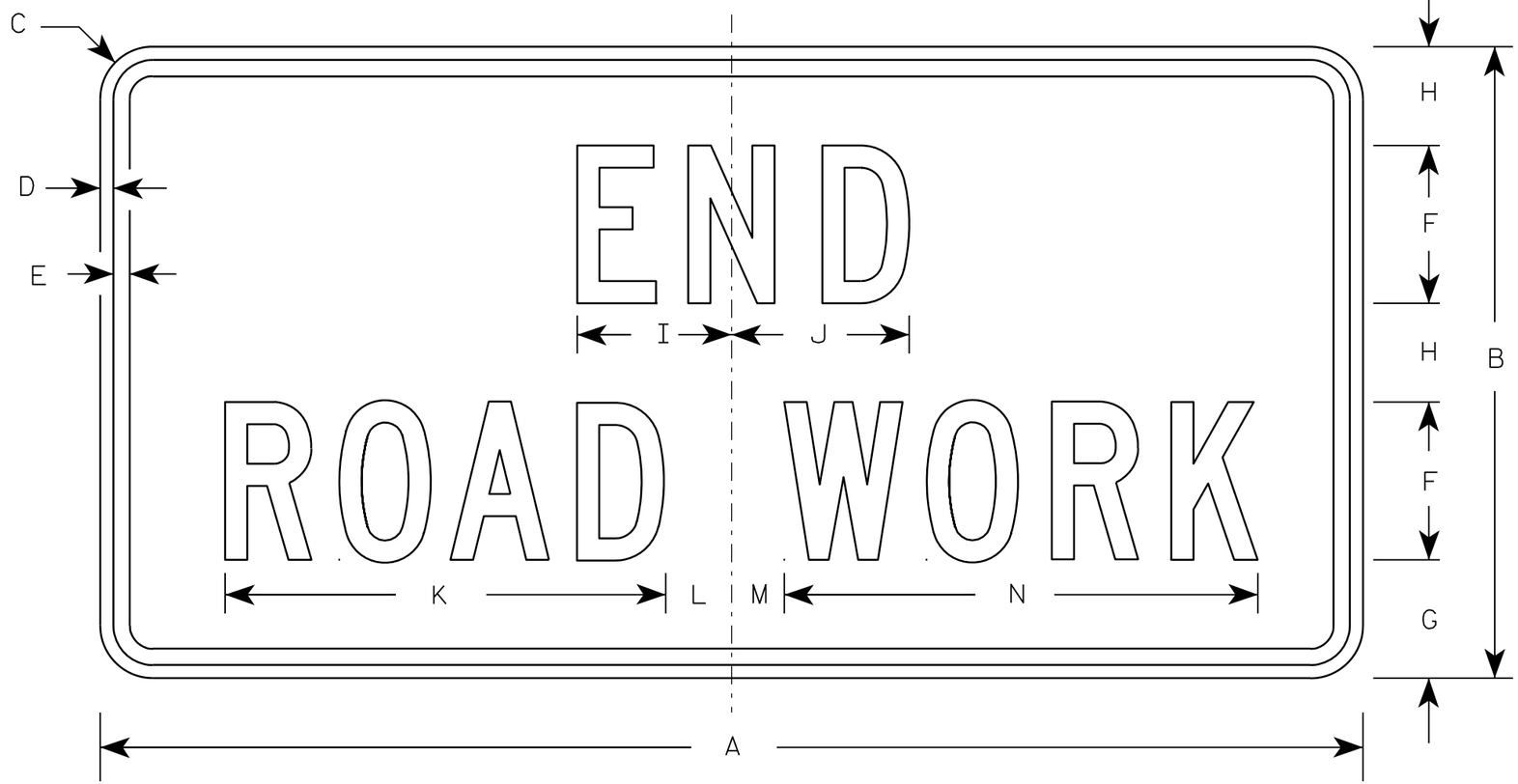
STANDARD SIGN
G20-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/14/17 PLATE NO. G20-1.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 318 | E



G20-2A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

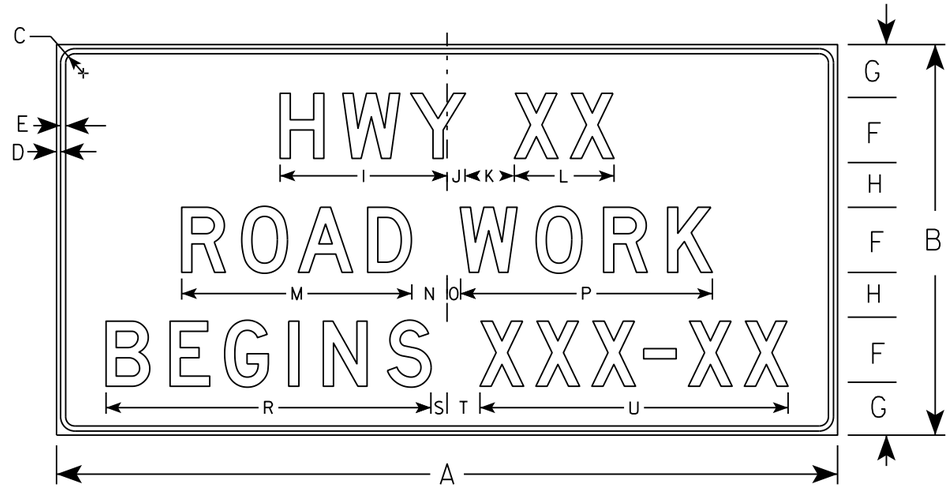
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 319	E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Substitute appropriate numeral and adjust spacing to achieve proper balance.



G20-57

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																											
3	72	36	1 1/8	1/2	5/8	6	5	4	15 5/8	1 5/8	5	9 1/4	21 1/4	3 1/2	1 1/2	28 3/8		29 7/8	1 3/4	3 1/4	28 1/2						18.0
4	96	48	2 1/4	3/4	1	8	6 1/2	5 1/2	20 5/8	2 1/4	6	12 1/4	28 1/4	4 3/8	1 5/8	31		39 1/4	2	4	37 7/8						32.0
5																											

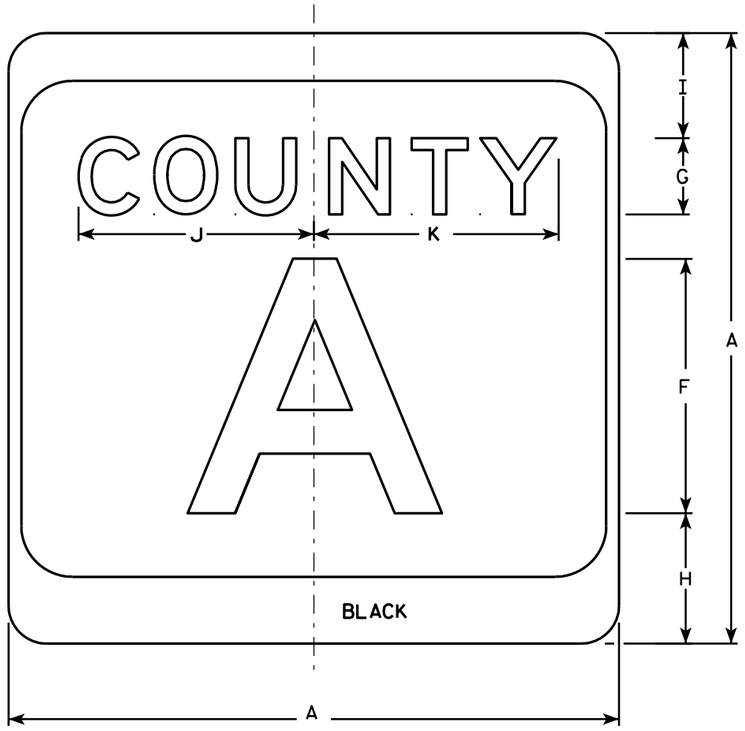
STANDARD SIGN
G20-57

WISCONSIN DEPT OF TRANSPORTATION

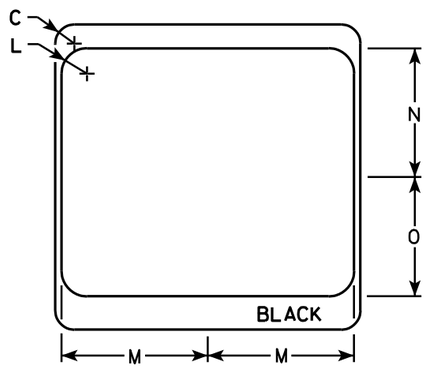
APPROVED Matthew R Rauch
For State Traffic Engineer

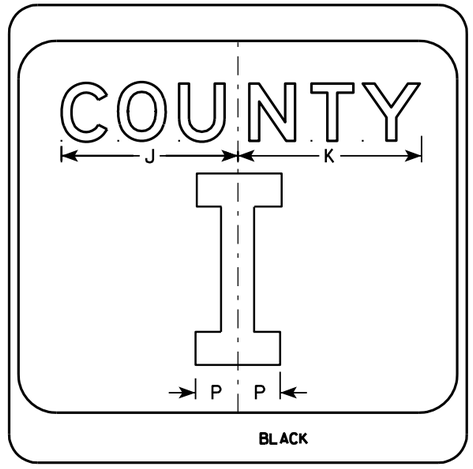
DATE 3/1/17 PLATE NO. G20-57.3

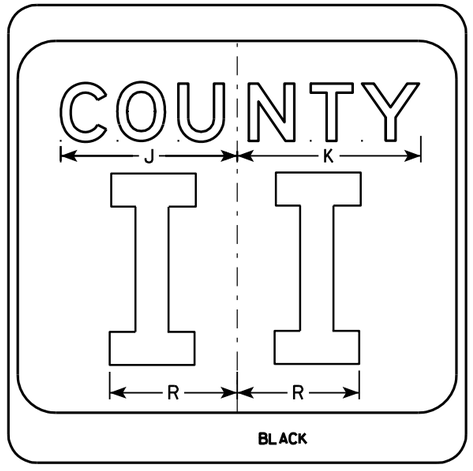
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 320	E



M1-5A







NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 7
   Message - Black
3. Message Series - see Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

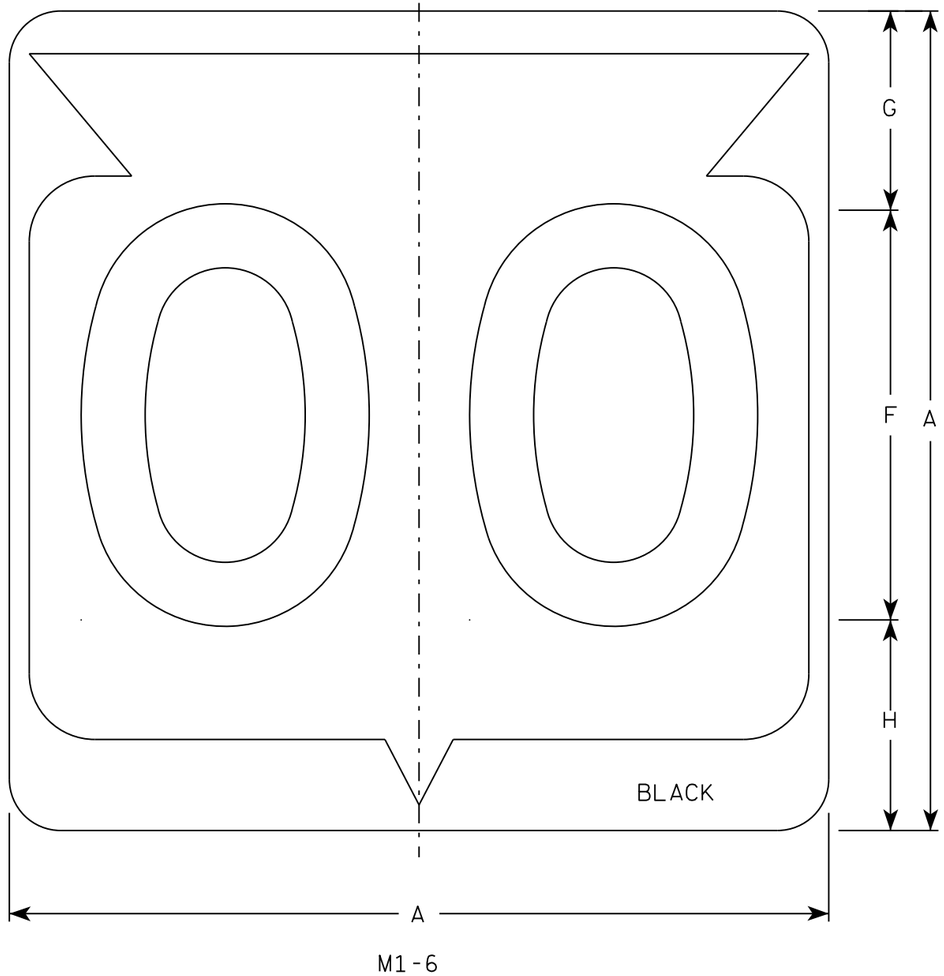
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

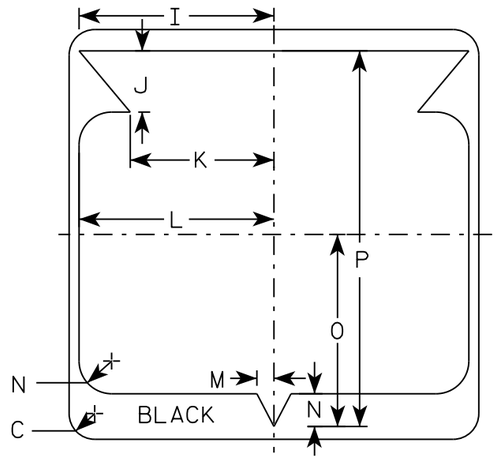
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 321 | E



M1-6

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D except 3 number signs Series C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0

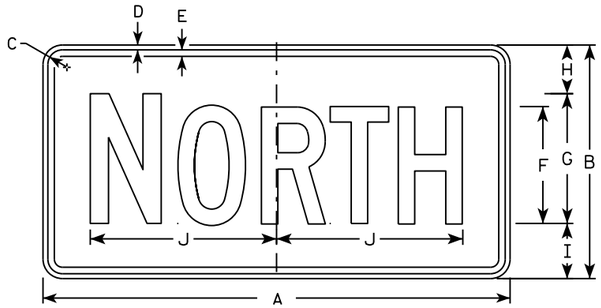
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

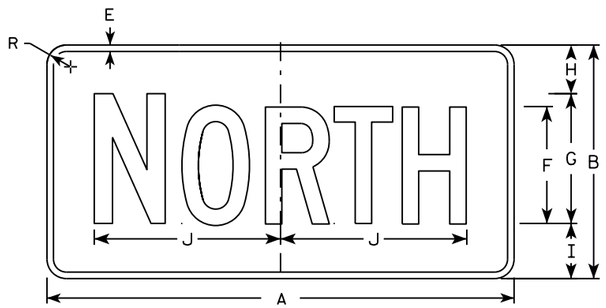
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/18 PLATE NO. M1-6.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 322 | E



M3-1
MM3-1
MP3-1



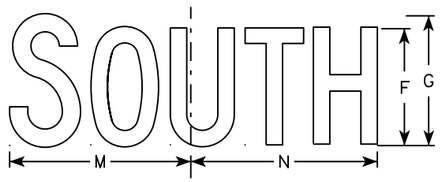
MB3-1
MK3-1
MN3-1



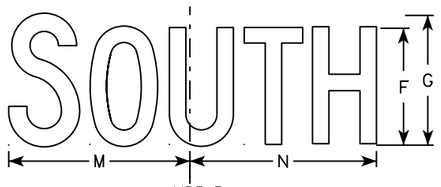
M3-2
MM3-2
MP3-2



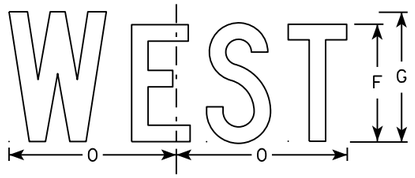
MB3-2
MK3-2
MN3-2



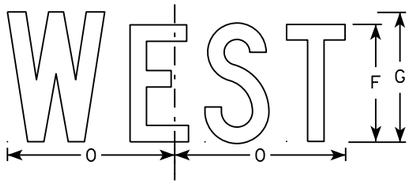
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

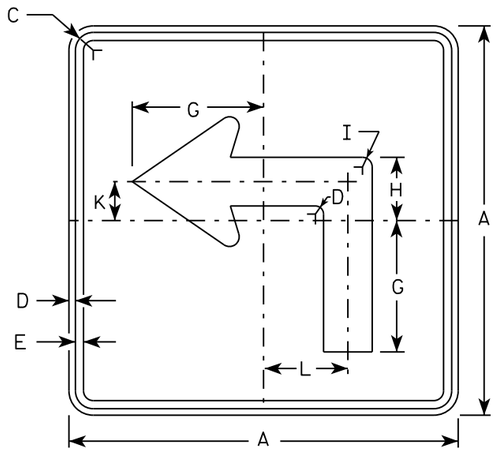
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

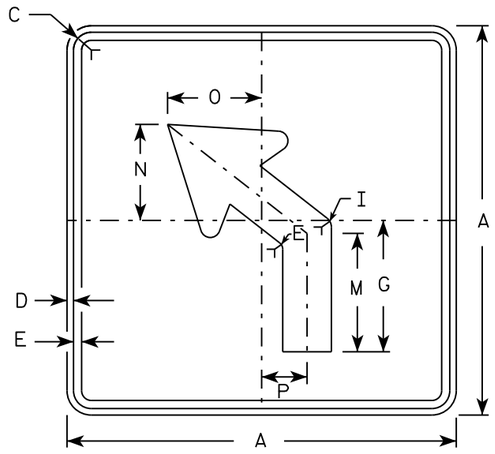
DATE 10/15/15 PLATE NO M3-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

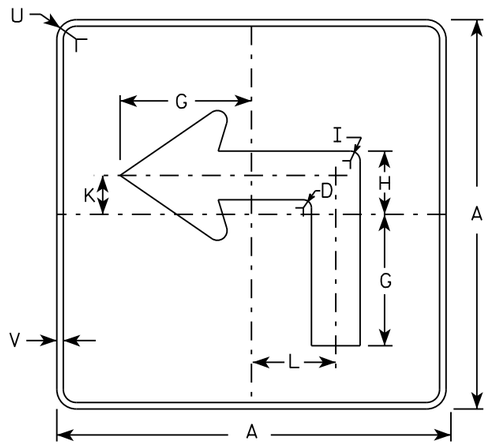
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



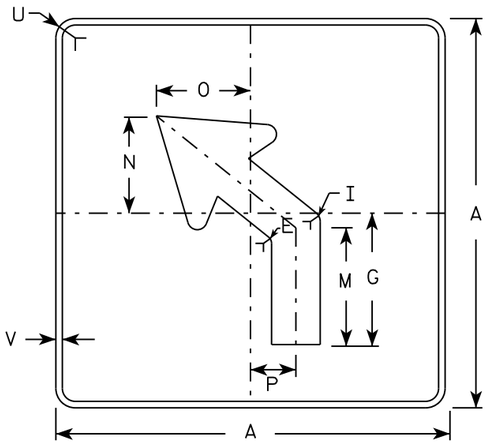
M5-1L
MM5-1L
MO5-1L
MP5-1L



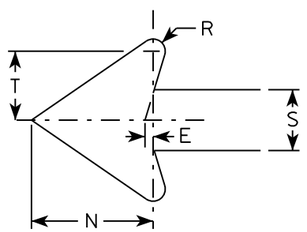
M5-2L
MM5-2L
MO5-2L
MP5-2L



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 - Type H Reflective
   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.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

STANDARD SIGN
M5-1 & M5-2

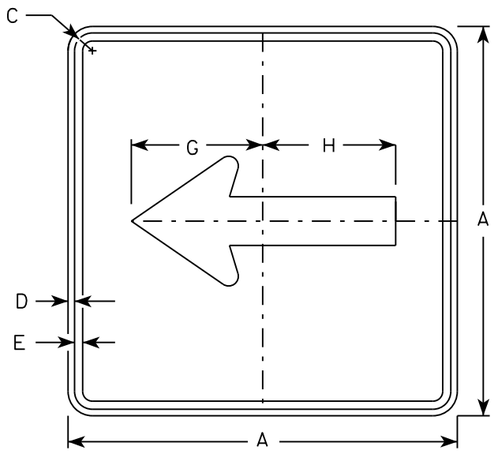
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

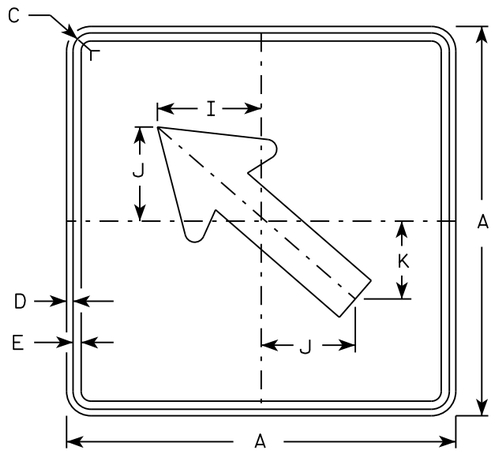
DATE 10/15/15 PLATE NO. M5-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



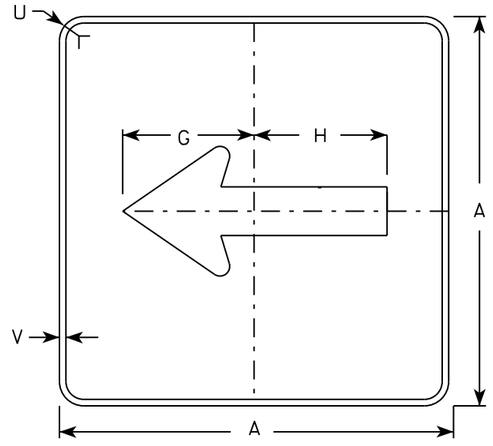
M6-1
MM6-1
MO6-1
MP6-1



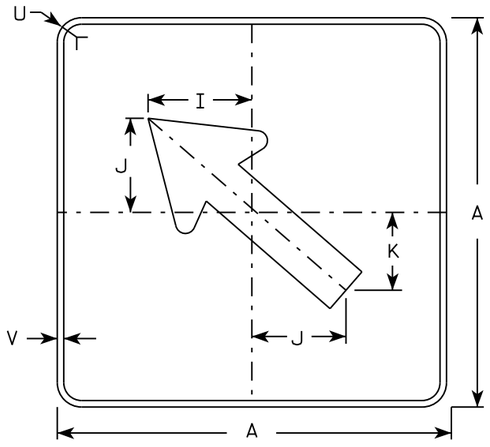
M6-2
MM6-2
MO6-2
MP6-2

NOTES

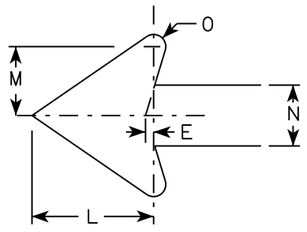
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



MB6-1
MK6-1
MN6-1
MR6-1



MB6-2
MK6-2
MN6-2
MR6-2



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2						3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25

STANDARD SIGN M6-1 & M6-2 SERIES

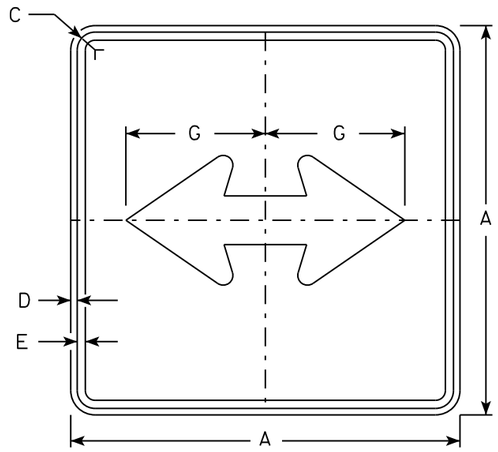
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

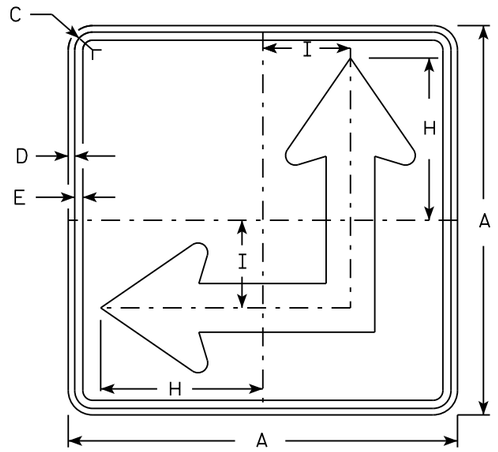
DATE 10/15/15 PLATE 325 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 01-DEC-2015 17:57 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



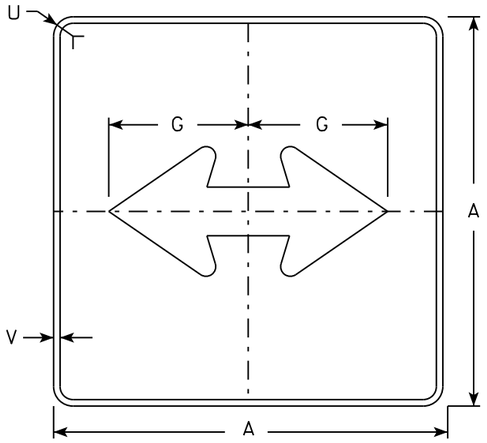
M6-4
MM6-4
MO6-4
MP6-4



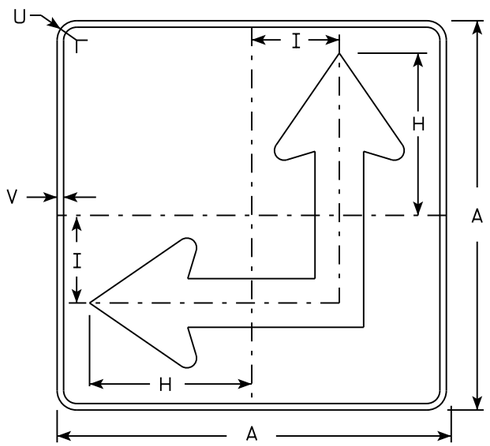
M6-6
MM6-6
MO6-6
MP6-6

NOTES

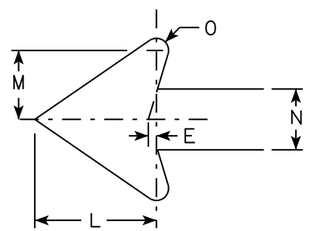
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See Note 4
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-4 and M6-6 Background - 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.



MB6-4
MK6-4
MN6-4
MR6-4



MB6-6
MK6-6
MN6-6
MR6-6



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25

STANDARD SIGN
M6-4 & M6-6
SERIES

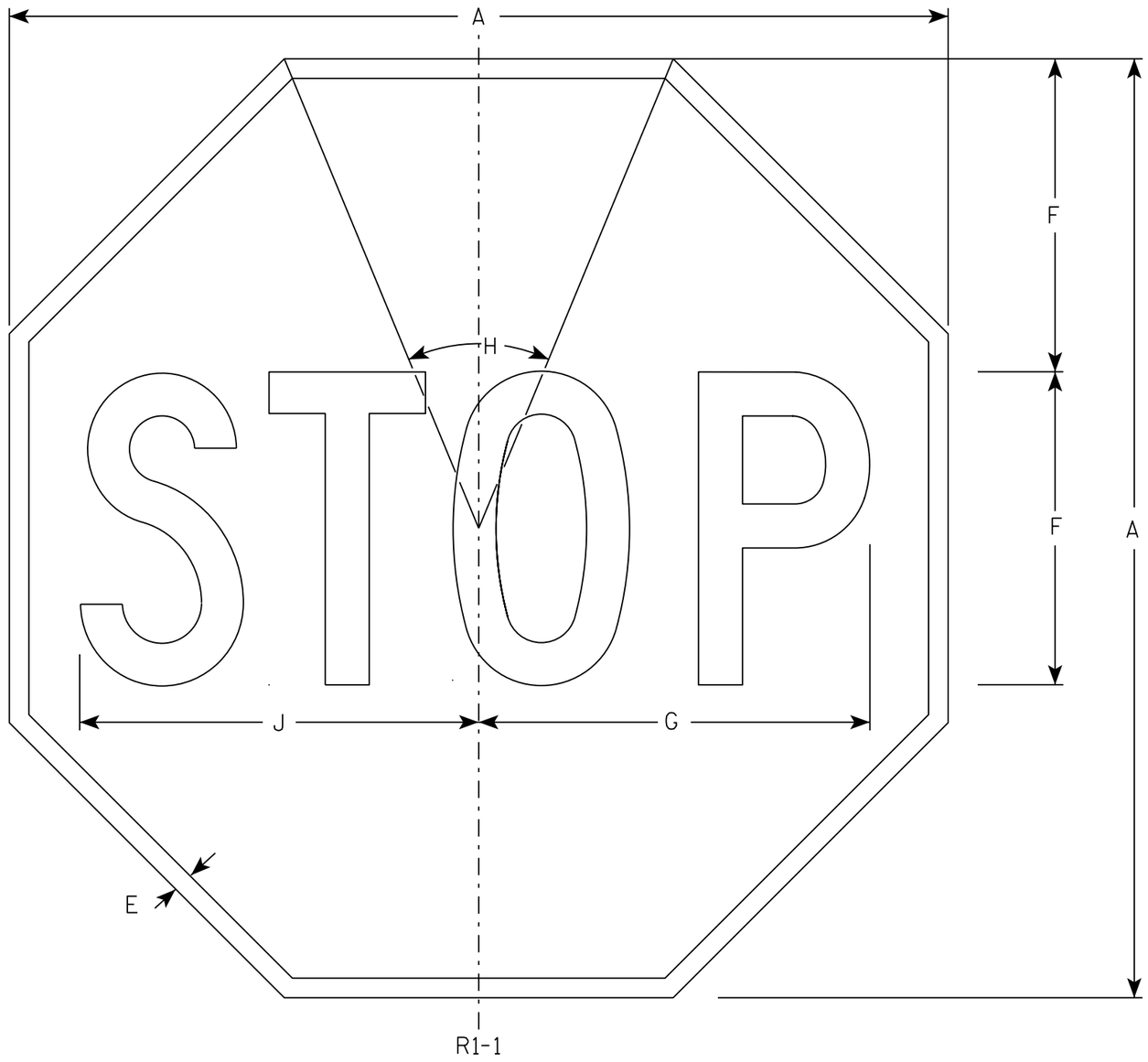
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 326 M6-4.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M64.DGN PLOT DATE : 01-DEC-2015 17:58 PLOT BY : $$ platuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - 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

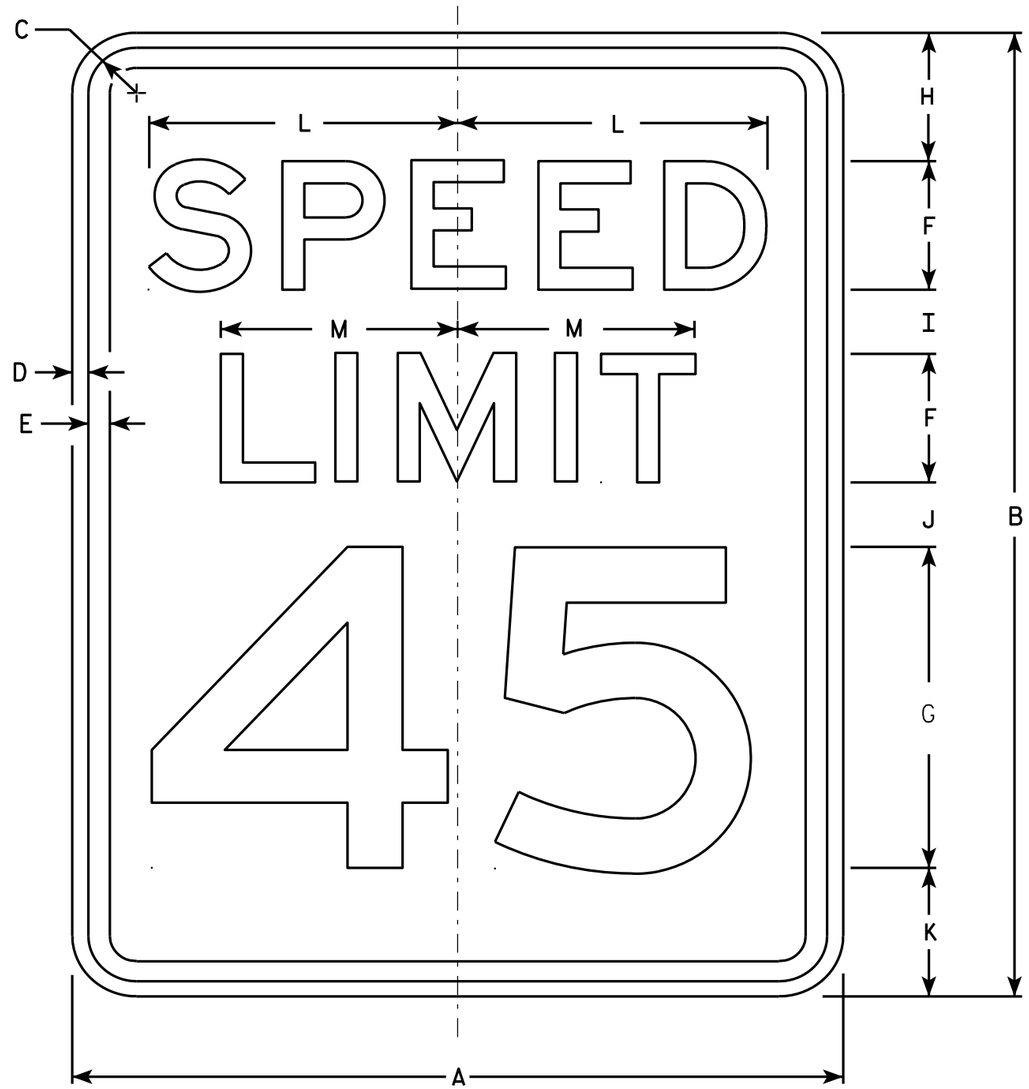
R1-1

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: 327	E



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

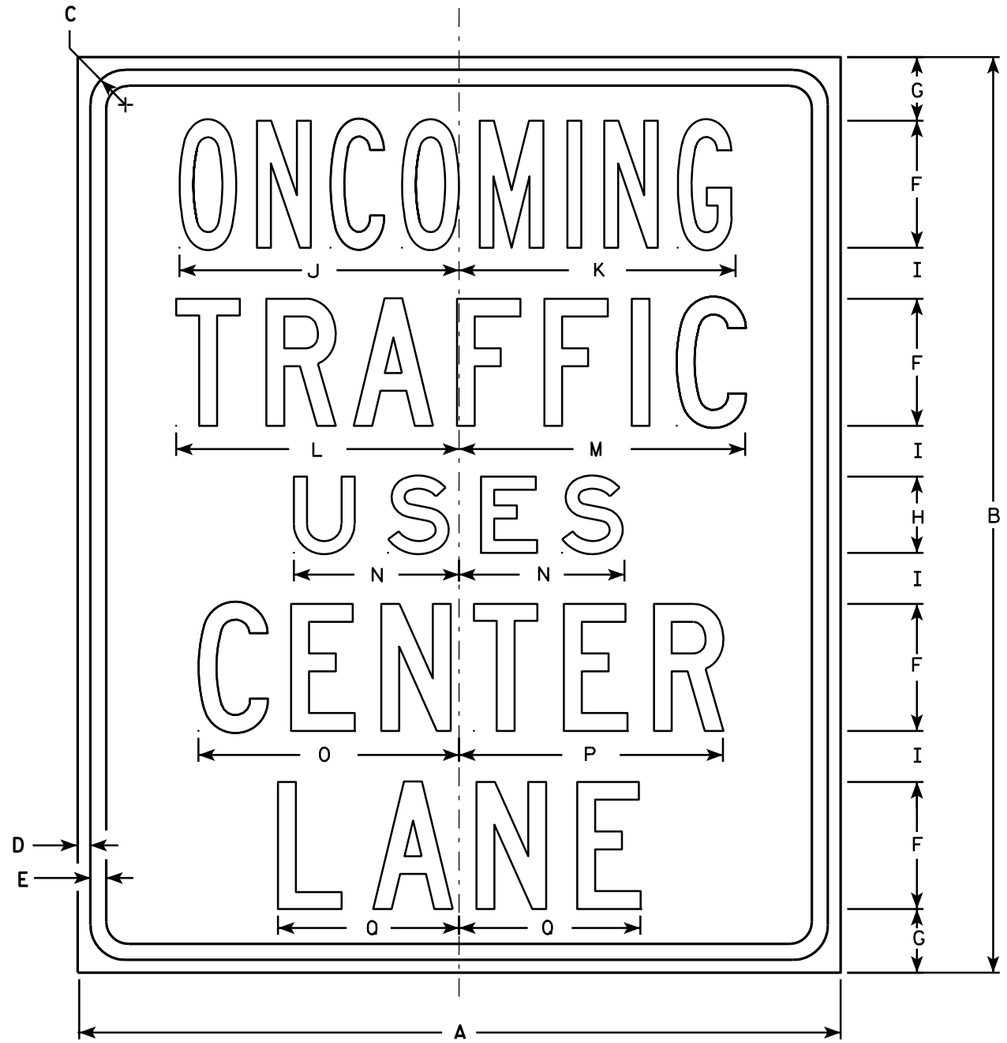
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 328 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R21.DGN PLOT DATE : 28-MAY-2010 08:32 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 4.717577:1.000000

WISDOT/CADDS SHEET 42



R3-72

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - Line 1 is Series B, Lines 2, 4 and 5 are Series C, and Line 3 is Series E.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	36	1 3/8	1/2	5/8	5	2 1/2	3	2	11	10 7/8	11 1/8	11 1/4	6 1/2	10 1/4	10 3/8	7 1/8										7.50
2S	30	36	1 3/8	1/2	5/8	5	2 1/2	3	2	11	10 7/8	11 1/8	11 1/4	6 1/2	10 1/4	10 3/8	7 1/8										7.50
2M	30	36	1 3/8	1/2	5/8	5	2 1/2	3	2	11	10 7/8	11 1/8	11 1/4	6 1/2	10 1/4	10 3/8	7 1/8										7.50
3																											
4																											
5																											

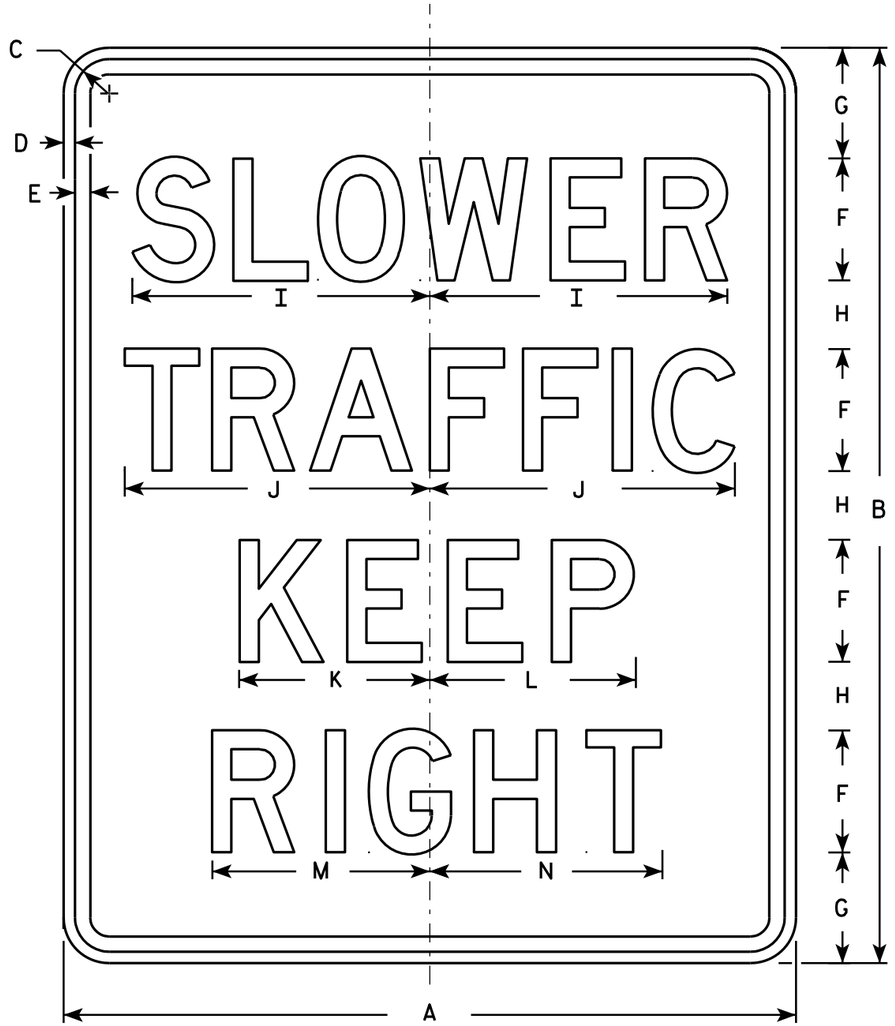
STANDARD SIGN
R3-72

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R3-72.5

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 329	E



R4-3

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	30	1 1/8	3/8	1/2	4	3 5/8	2 1/4	9 3/4	10	6 1/4	6 3/4	7 1/8	7 5/8													5.0
2M	24	30	1 1/8	3/8	1/2	4	3 5/8	2 1/4	9 3/4	10	6 1/4	6 3/4	7 1/8	7 5/8													5.0
3	36	48	1 5/8	5/8	3/4	6	6	4	14 5/8	15	9 3/8	10	10 3/4	11 3/8													12.0
4	36	48	1 5/8	5/8	3/4	6	6	4	14 5/8	15	9 3/8	10	10 3/4	11 3/8													12.0
5	48	60	2 1/4	3/4	1	8	7 1/4	4 1/2	19 1/2	20	12 1/2	13 1/2	14 1/4	15 1/4													20.0

STANDARD SIGN
R4-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-3.8

PROJECT NO:

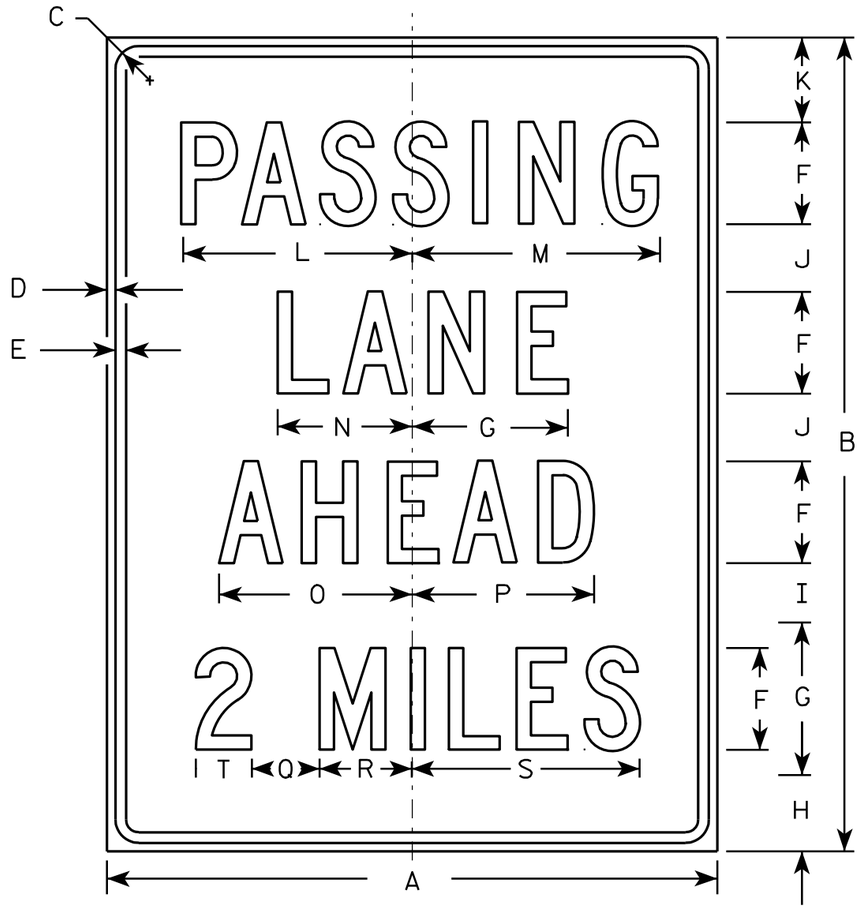
SHEET NO: 330 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R43.DGN PLOT DATE : 25-MAR-2011 13:40 PLOT BY : mscsja

WISDOT/CADDS SHEET 42

7

7



R4-51A

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36	48	1 3/8	1/2	5/8	6	9 1/4	4 1/2	3 1/2	4	5	13 5/8	14 1/2	8	11 3/8	10 3/4	4	5 1/2	13 3/8	3 1/4							12.0
2M	36	48	1 3/8	1/2	5/8	6	9 1/4	4 1/2	3 1/2	4	5	13 5/8	14 1/2	8	11 3/8	10 3/4	4	5 1/2	13 3/8	3 1/4							12.0
3																											
4																											
5																											

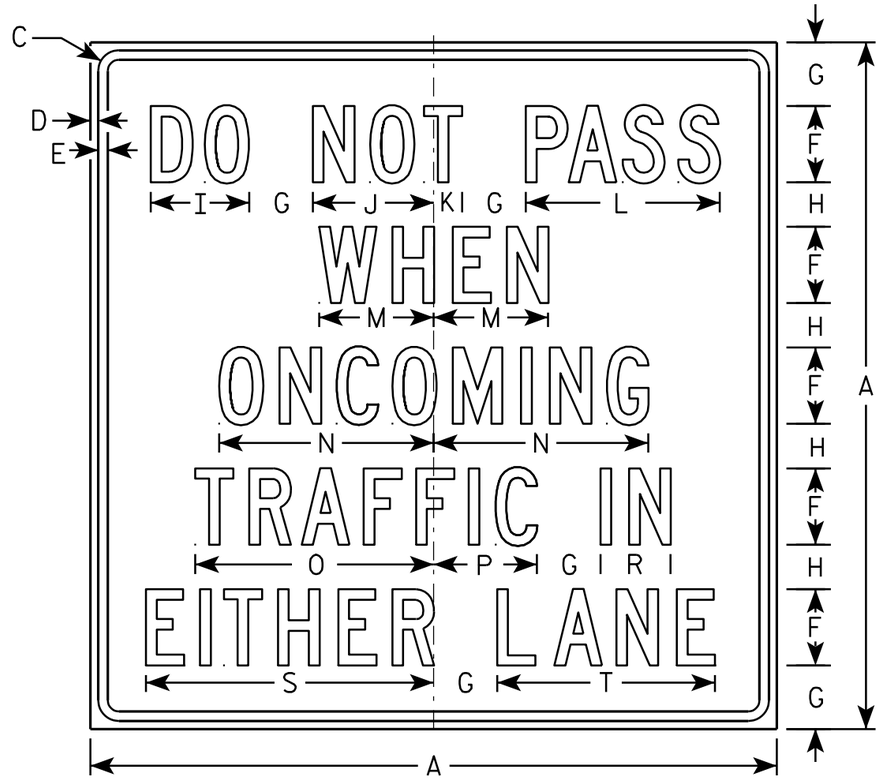
STANDARD SIGN
R4-51A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2011 PLATE NO. R4-51A.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 331 | E



R4-53

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - WHITE
   Message - BLACK
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	54		1 5/8	5/8	3/4	6	5	3 1/2	7 3/4	9 1/2	2 1/4	15 1/4	9	16 7/8	18 3/4	8 1/8		5 1/2	22 5/8	17 1/8							20.25
2M	54		1 5/8	5/8	3/4	6	5	3 1/2	7 3/4	9 1/2	2 1/4	15 1/4	9	16 7/8	18 3/4	8 1/8		5 1/2	22 5/8	17 1/8							20.25
3																											
4																											
5																											

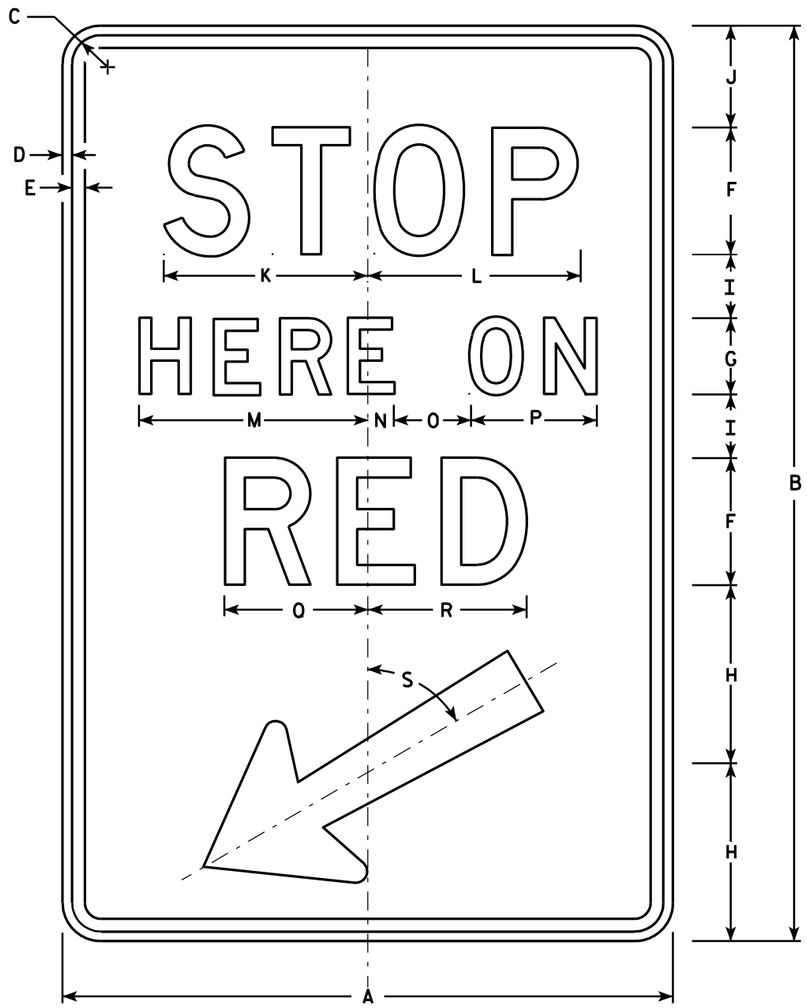
STANDARD SIGN
R4-53

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/2/10 PLATE NO. R4-53.1

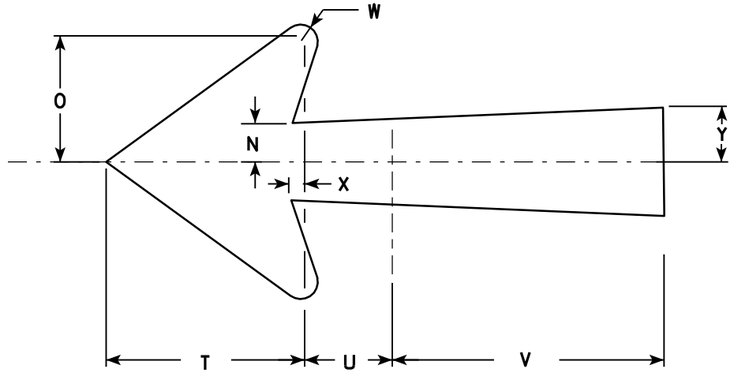
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 332 | E



R10-6

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - 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.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/8	3/8	1/2	5	3	7	2 1/2	4	8	8 3/8	9	1	3	5	5 5/8	6 1/4	60°	5 1/4	2 1/4	7 1/8	1/2	3/8	1 3/8		6.0
2M	24	36	1 1/8	3/8	1/2	5	3	7	2 1/2	4	8	8 3/8	9	1	3	5	5 5/8	6 1/4	60°	5 1/4	2 1/4	7 1/8	1/2	3/8	1 3/8		6.0
3																											
4																											
5																											

STANDARD SIGN
R10-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/5/11 PLATE NO. R10-6.6

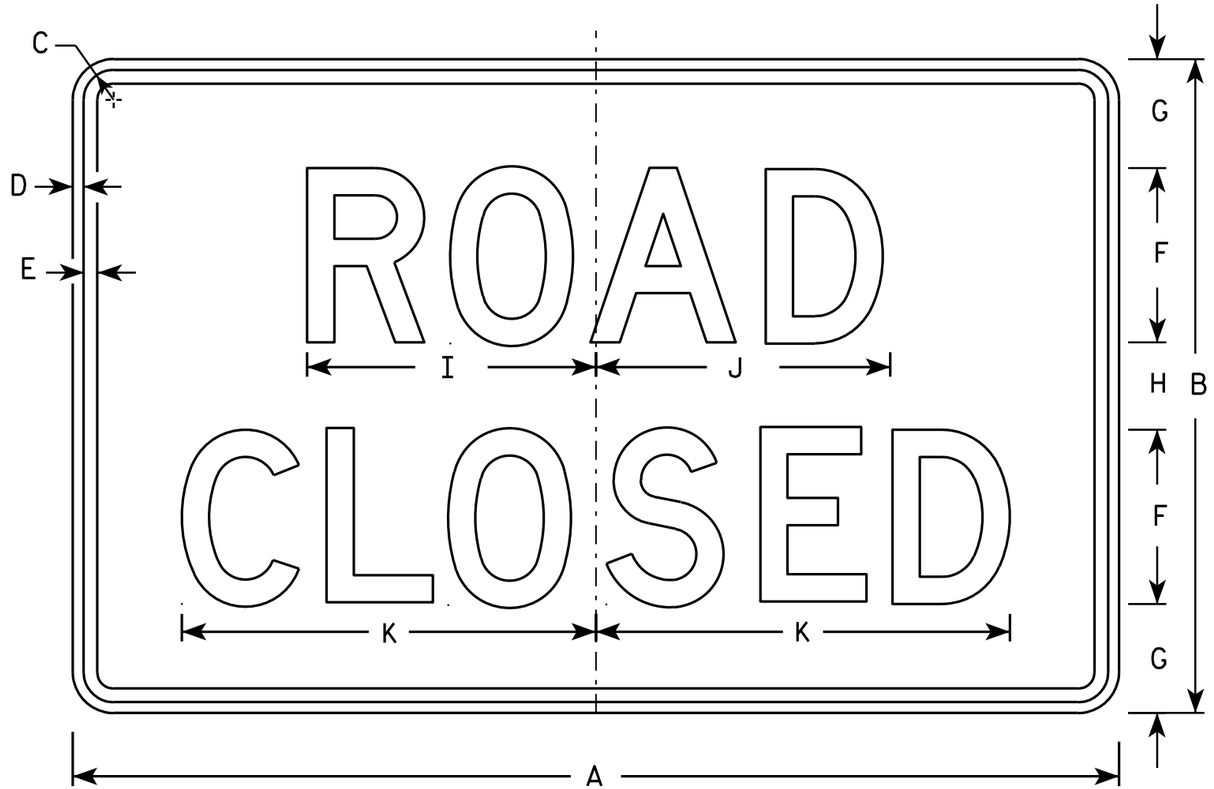
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 333	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R106.DGN PLOT DATE : 05-APR-2011 09:50 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.959043:1.000000

WISDOT/CADDS SHEET 42

7

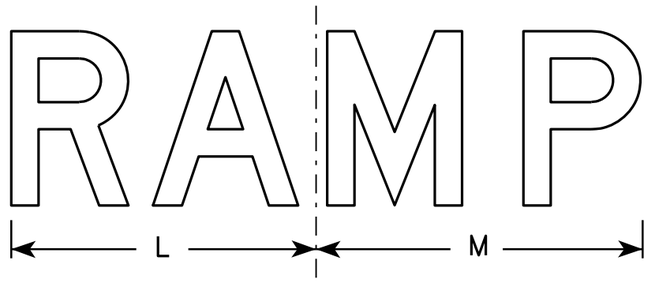
7



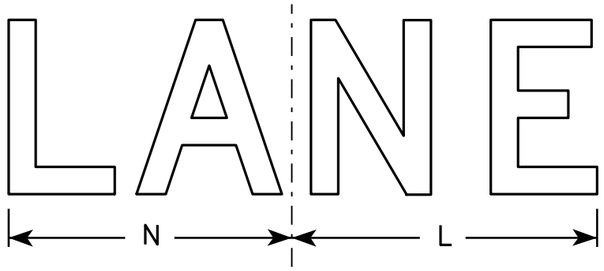
R11-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



R11-2R



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0

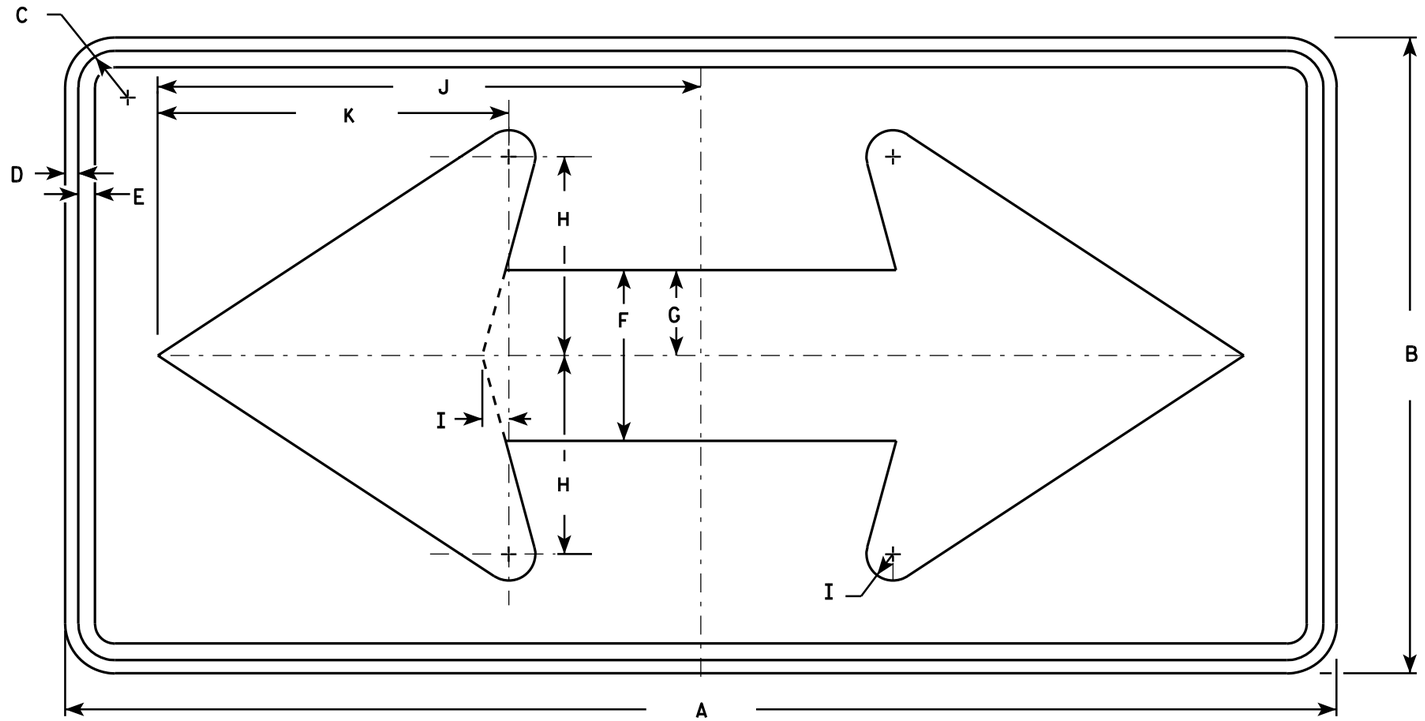
STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-2.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 334 | E



W1-7

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/8	3/8	1/2	5	2 1/2	5 3/4	3/4	15 5/8	10 1/8																4.5
2S	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
3	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
5	96	48	2 1/4	3/4	1	13	6 1/2	15	2	41	26 1/2																32.0

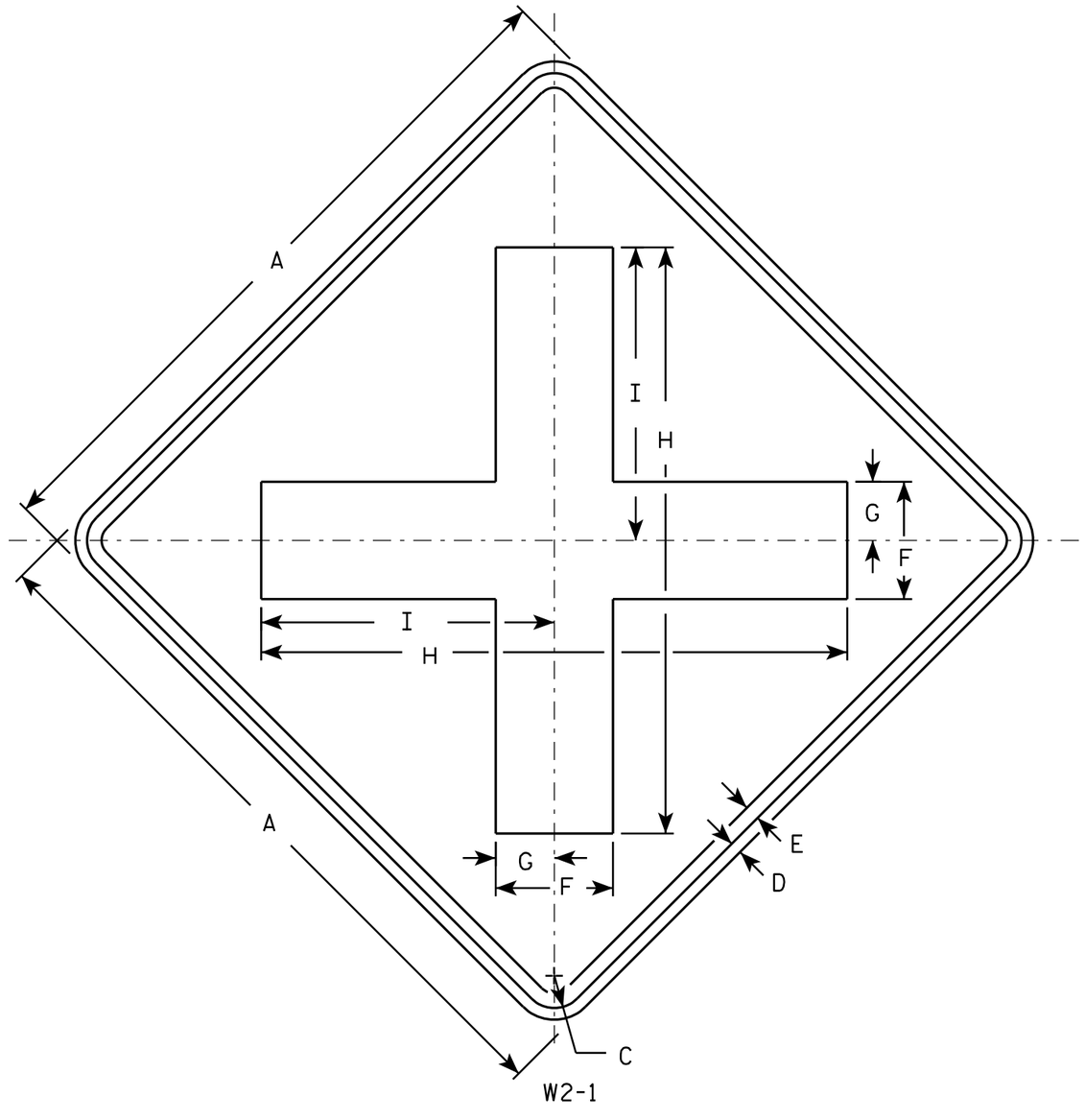
STANDARD SIGN
W1-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-7.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 335 | E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	4	2	20	10																		4.0
2S	30		1 3/8	1/2	5/8	5	2 1/2	25	12 1/2																		6.25
2M	30		1 3/8	1/2	5/8	5	2 1/2	25	12 1/2																		6.25
3	36		1 5/8	5/8	3/4	6	3	30	15																		9.0
4	48		2 1/4	3/4	1	8	4	40	20																		16.0
5																											

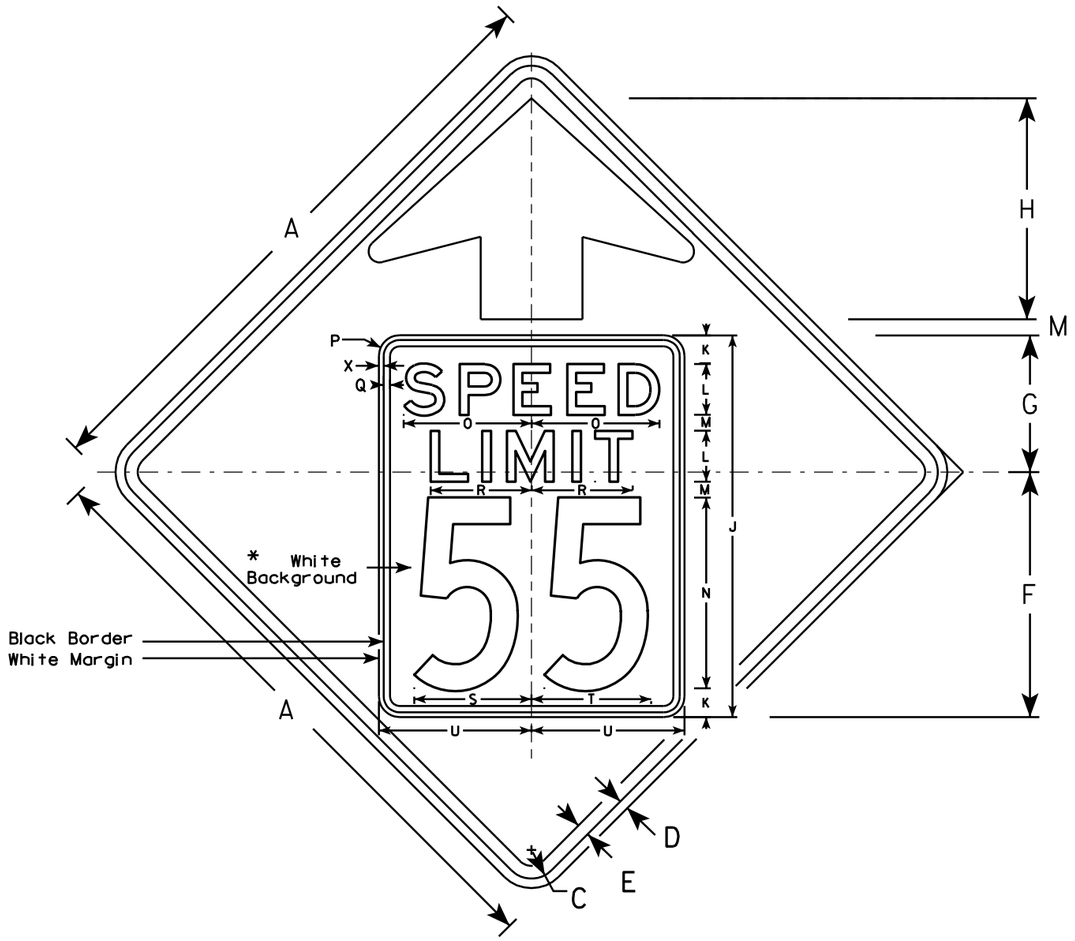
STANDARD SIGN
W2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W2-1.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 336	E

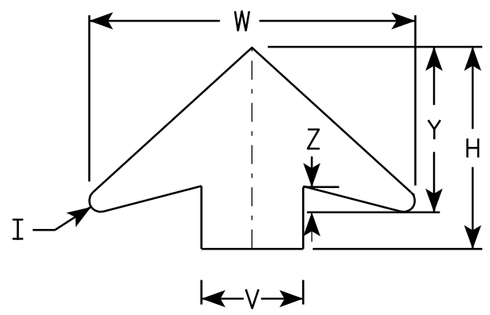


W3-5

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color: *
   Background - YELLOW*
   Message - BLACK
3. Message Series - C for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
2M	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
3	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
4	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN
W3-5

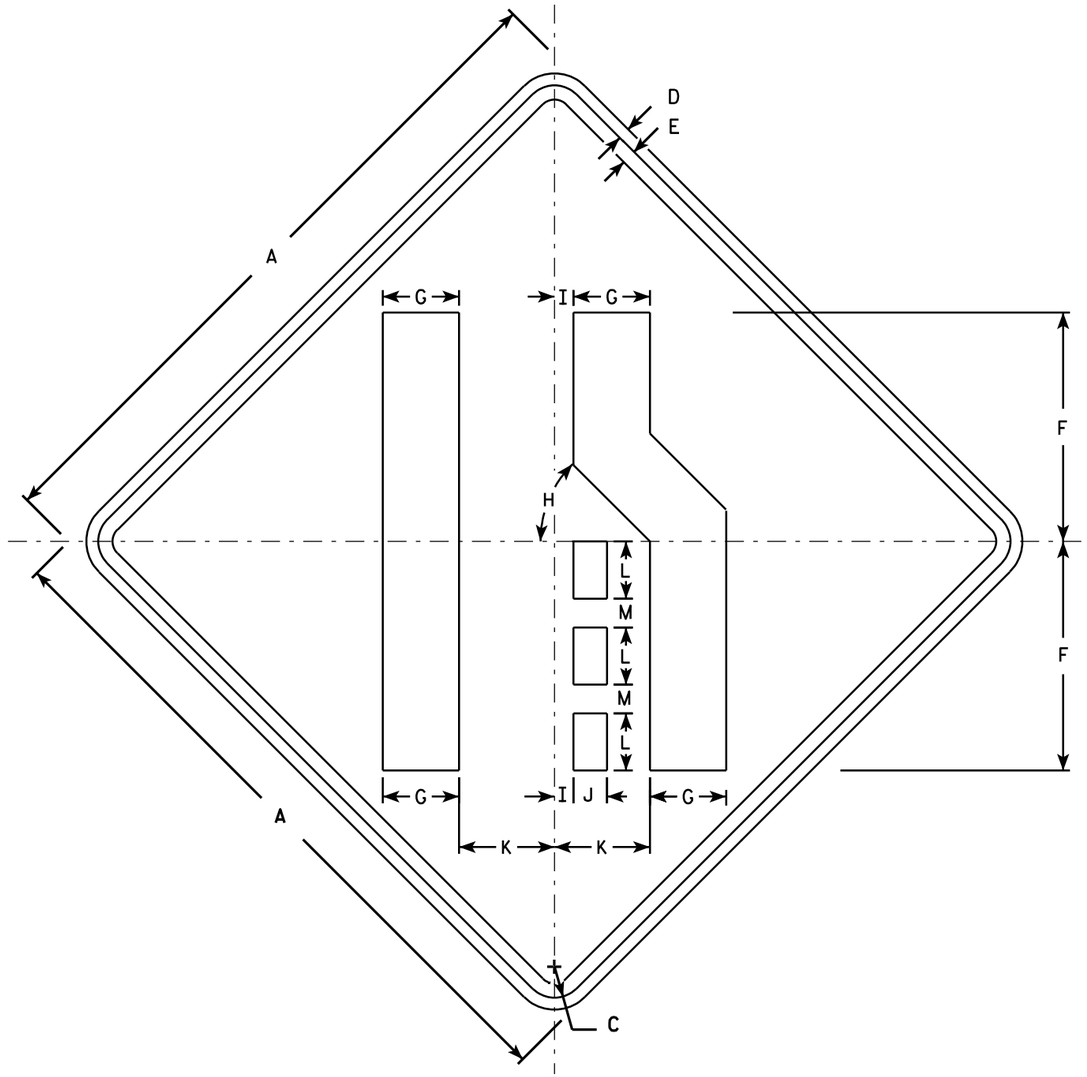
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W3-5.5

PROJECT NO:

SHEET NO: 337 E



W4-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W4-2L is the same as W4-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	10	3 3/8	45°	7/8	1 1/2	4 1/4	2 1/2	1 1/4														6.25
2S	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2M	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
3	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN
W4-2

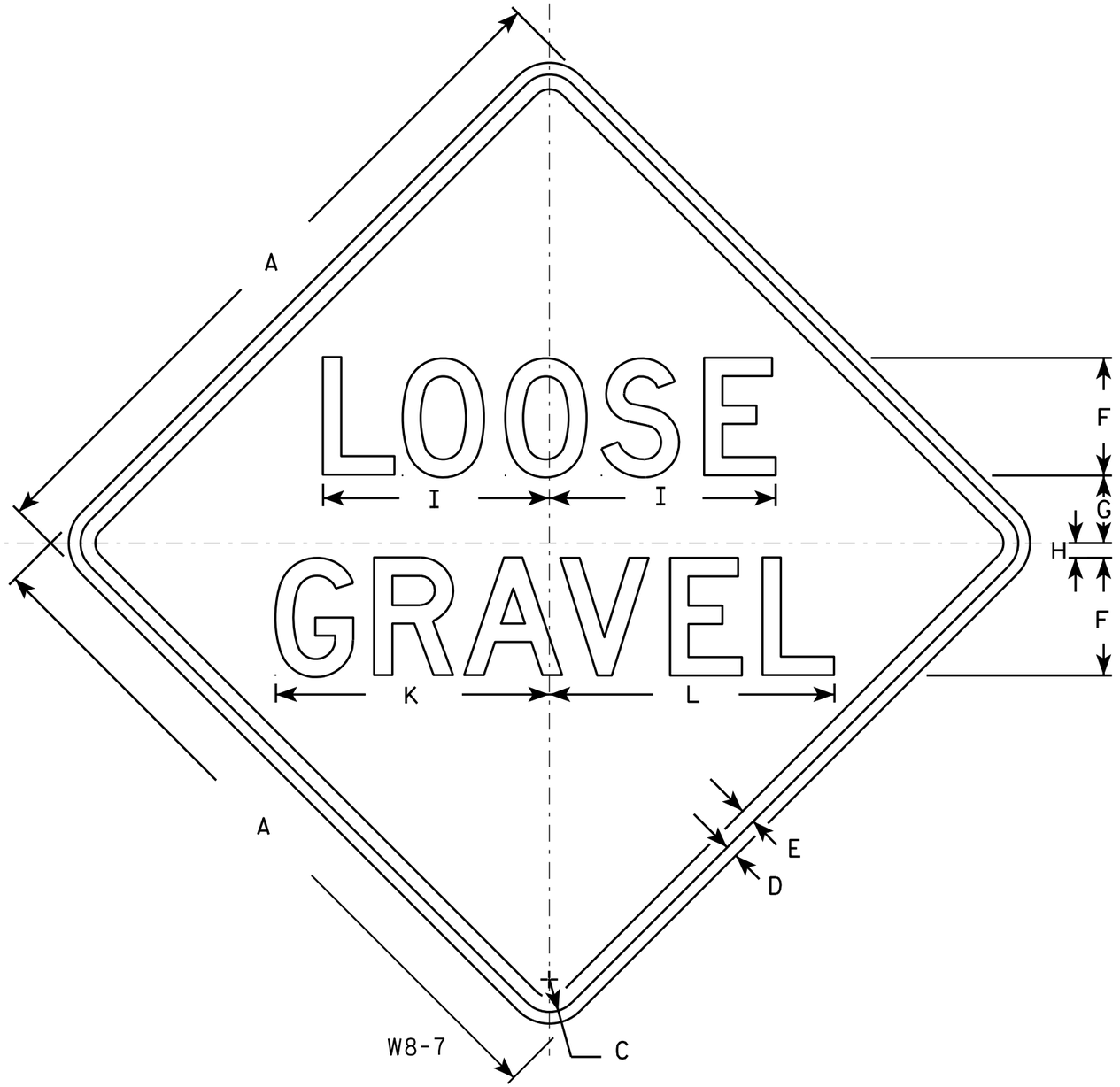
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/12/13 PLATE NO. W4-2.14

PROJECT NO:

SHEET NO: 338 E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	4	2 3/4	1/2	7 3/4		9 1/4	9 3/4															4.0
2S	36		1 5/8	5/8	3/4	6	4 1/8	3/4	11 5/8		14	14 1/2															9.0
2M	36		1 5/8	5/8	3/4	6	4 1/8	3/4	11 5/8		14	14 1/2															9.0
3	36		1 5/8	5/8	3/4	6	4 1/8	3/4	11 5/8		14	14 1/2															9.0
4	36		1 5/8	5/8	3/4	6	4 1/8	3/4	11 5/8		14	14 1/2															9.0
5	48		2 1/4	3/4	1	8	5 1/2	1	15 1/2		18 5/8	19 3/8															16.0

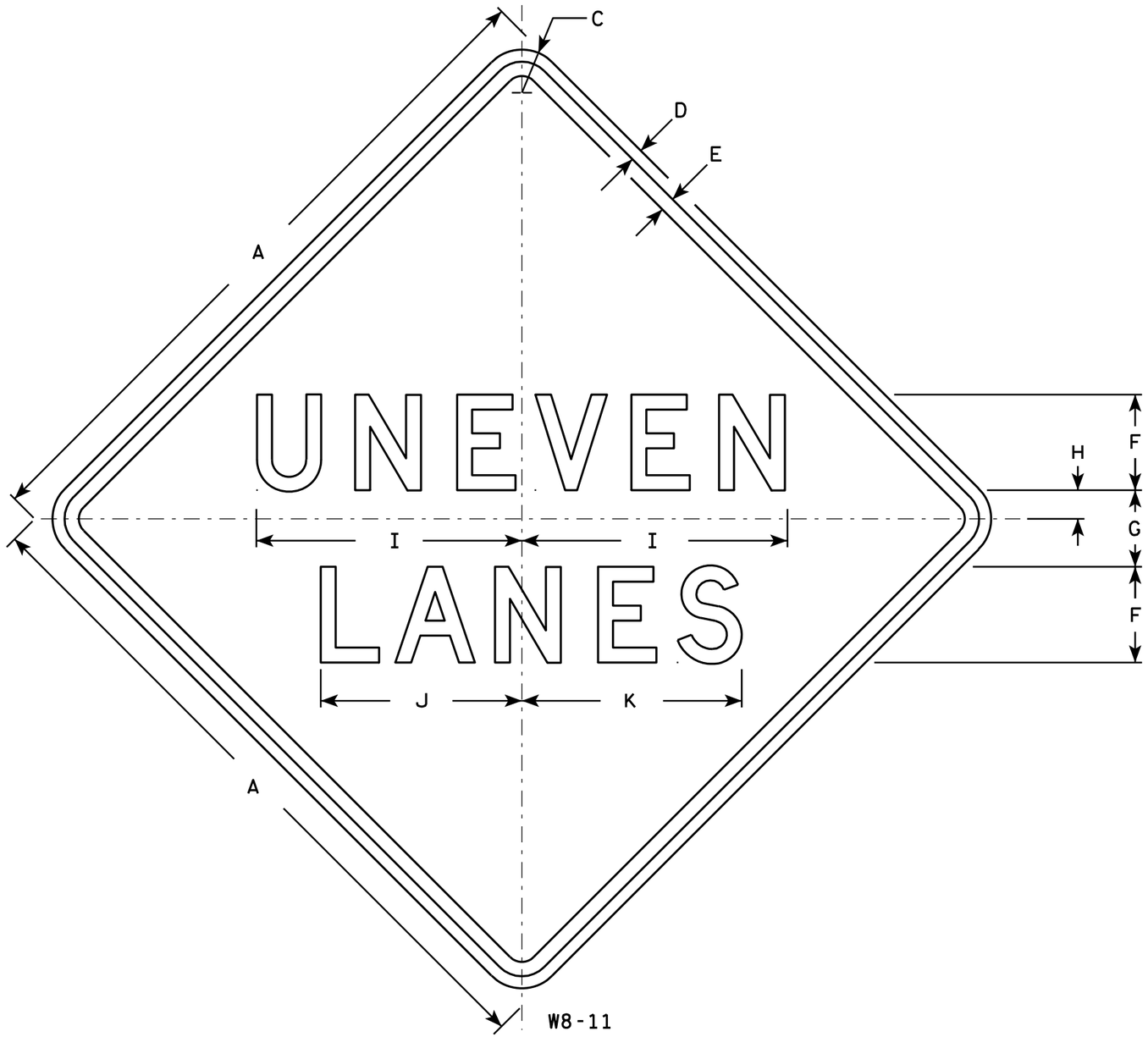
STANDARD SIGN
W8-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/30/12 PLATE NO. W8-7.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 339	E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		1 5/8	5/8	3/4	5	4	1 1/2	13 7/8	10 1/2	11 1/2																9.0
2M	36		1 5/8	5/8	3/4	5	4	1 1/2	13 7/8	10 1/2	11 1/2																9.0
3																											
4	36		1 5/8	5/8	3/4	5	4	1 1/2	13 7/8	10 1/2	11 1/2																9.0
5	48		2 1/4	3/4	1	7	5	2	18 1/2	14	15 3/8																16.0

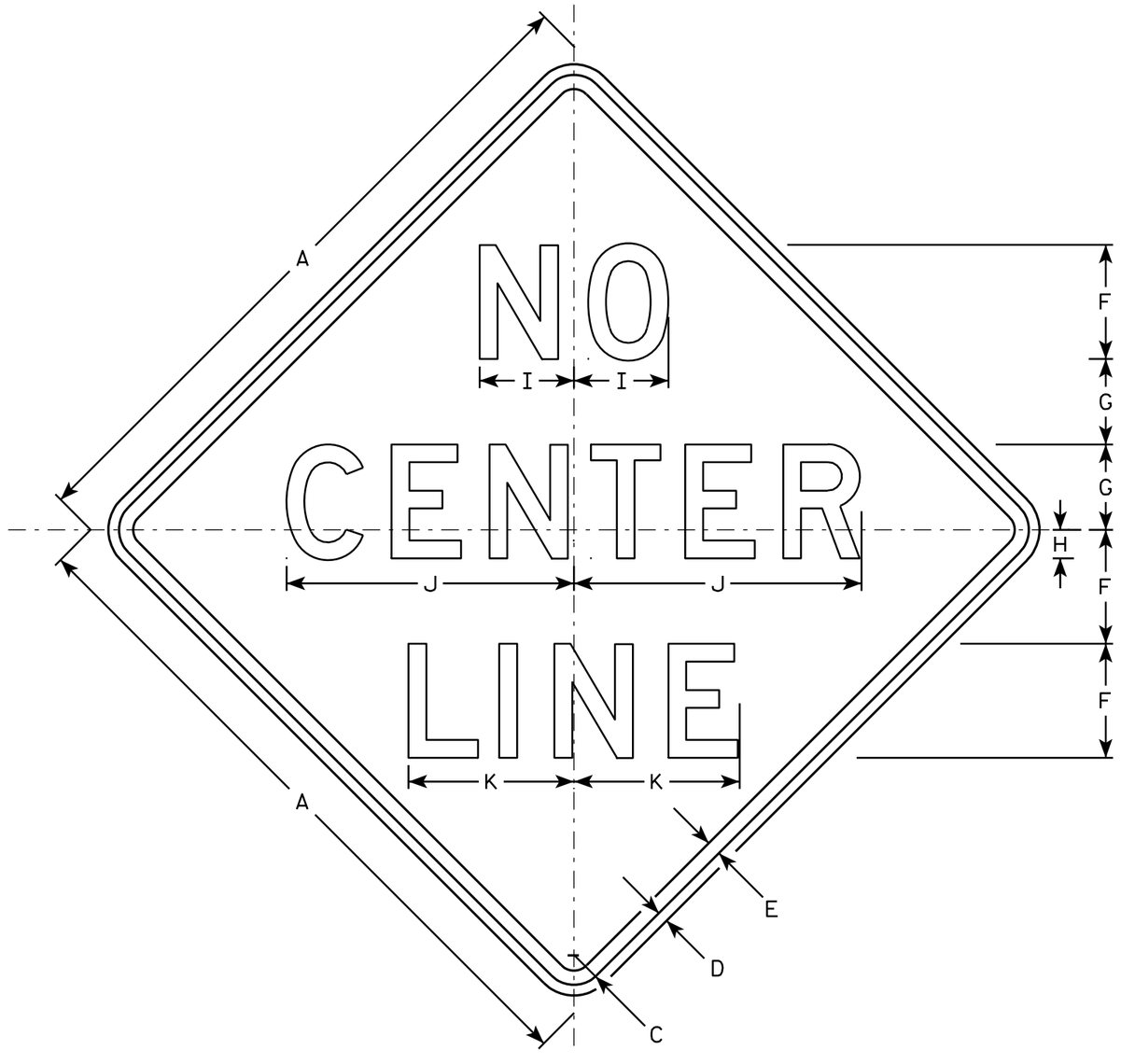
STANDARD SIGN
W8-11

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/22/11 PLATE NO. W8-11.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 340	E



W8-12

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		1 5/8	5/8	3/4	6	4 1/2	1 1/2	5 1/8	16	9																9.0
2M	36		1 5/8	5/8	3/4	6	4 1/2	1 1/2	5 1/8	16	9																9.0
3	48		2 1/4	3/4	1	8	6	2	6 5/8	20 1/4	11 5/8																16.0
4	48		2 1/4	3/4	1	8	6	2	6 5/8	20 1/4	11 5/8																16.0
5	48		2 1/4	3/4	1	8	6	2	6 5/8	20 1/4	11 5/8																16.0

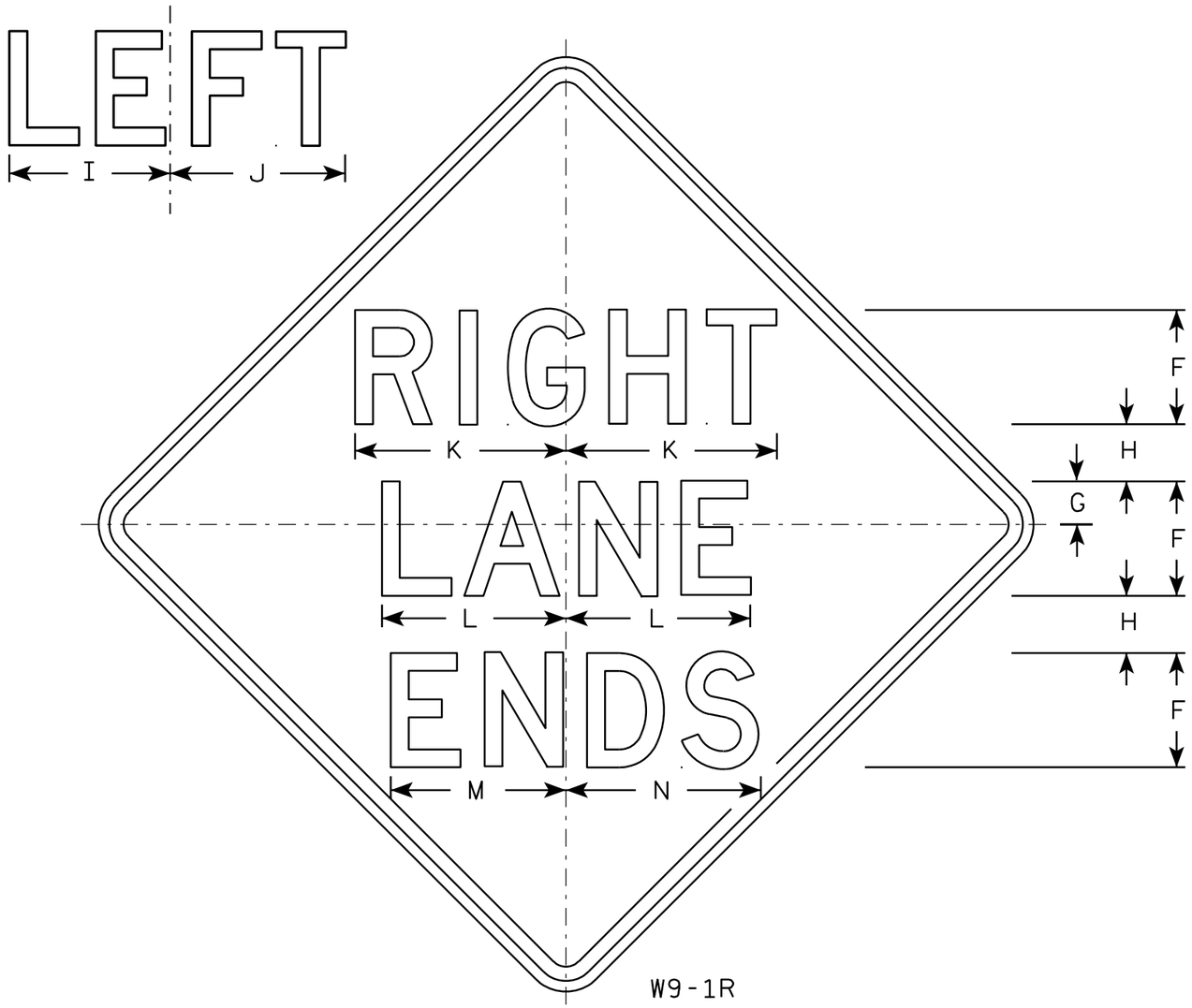
STANDARD SIGN
W8-12

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rausch
for State Traffic Engineer

DATE 8/24/10 PLATE NO. W8-12.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 341	E



W9-1R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - 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. W9-1L same as W9-1R except the word Left replaces Right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	5	1 1/2	2 1/2	7 1/8	7 5/8	9 1/4	8 1/8	7 5/8	8 5/8													6.25
2S	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
2M	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
3	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
4	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
5	48		2 1/4	3/4	1	8	3	4	11 1/4	12 1/4	14 3/4	12 7/8	12 1/4	13 5/8													16.0

STANDARD SIGN
W9-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

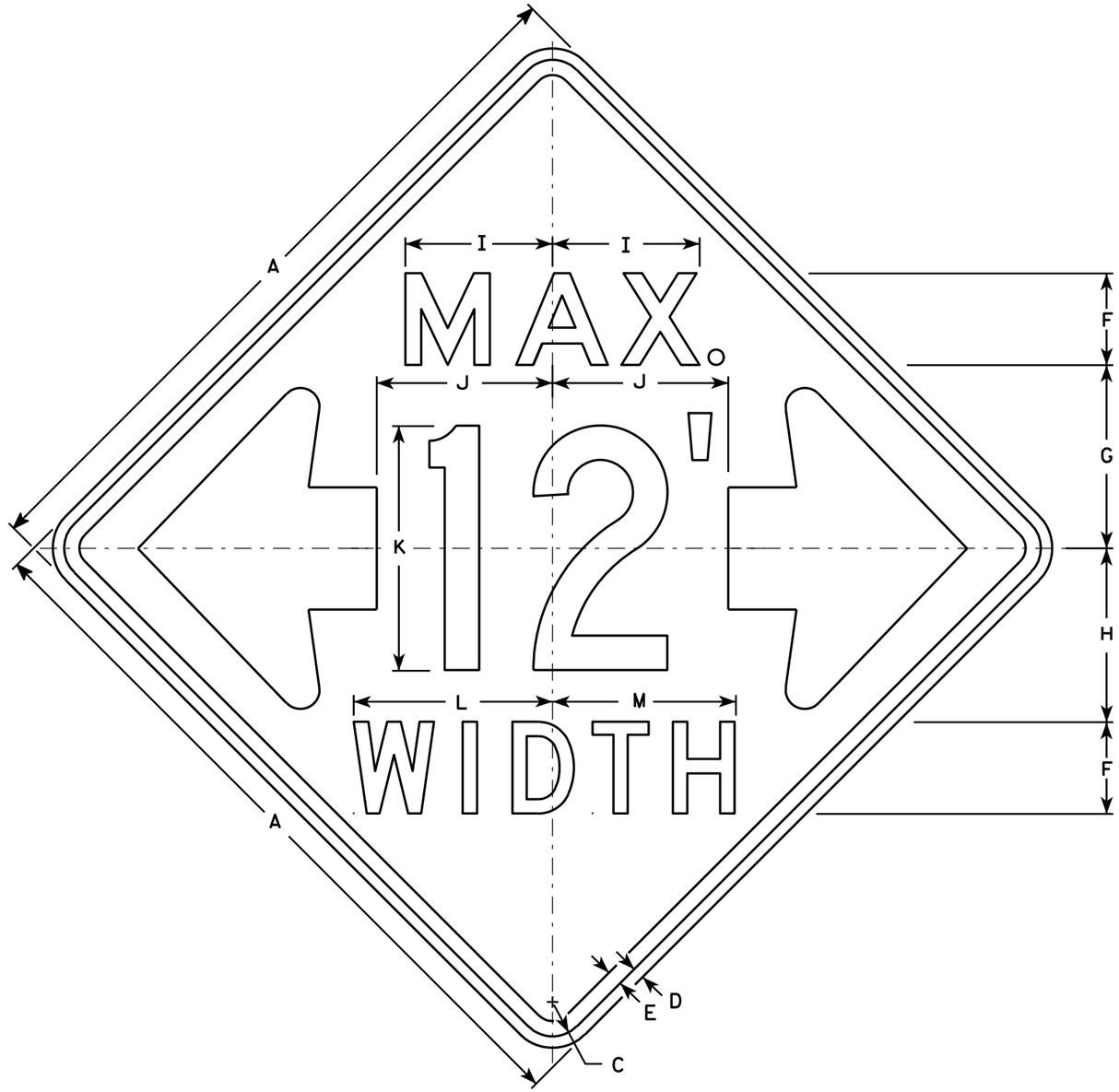
DATE 03/18/13 PLATE NO. W9-1.8

PROJECT NO:

SHEET NO: 342 E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W91.DGN PLOT DATE : 18-MAR-2013 11:42 PLOT BY : mscsja

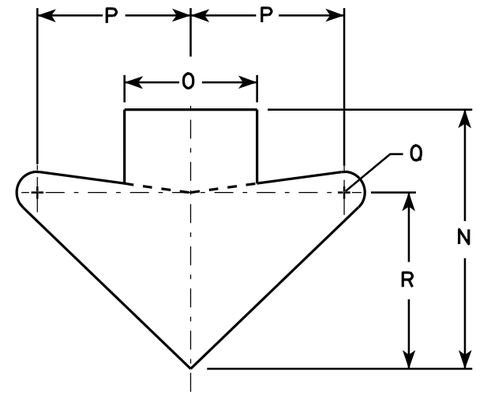
WISDOT/CADDS SHEET 42



W12-52

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The top line is series E, the numerals are series C, and the bottom line is series D.
6. Substitute appropriate numerals and adjust spacing as required.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
2M	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
3																											
4																											
5																											

STANDARD SIGN
W12-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

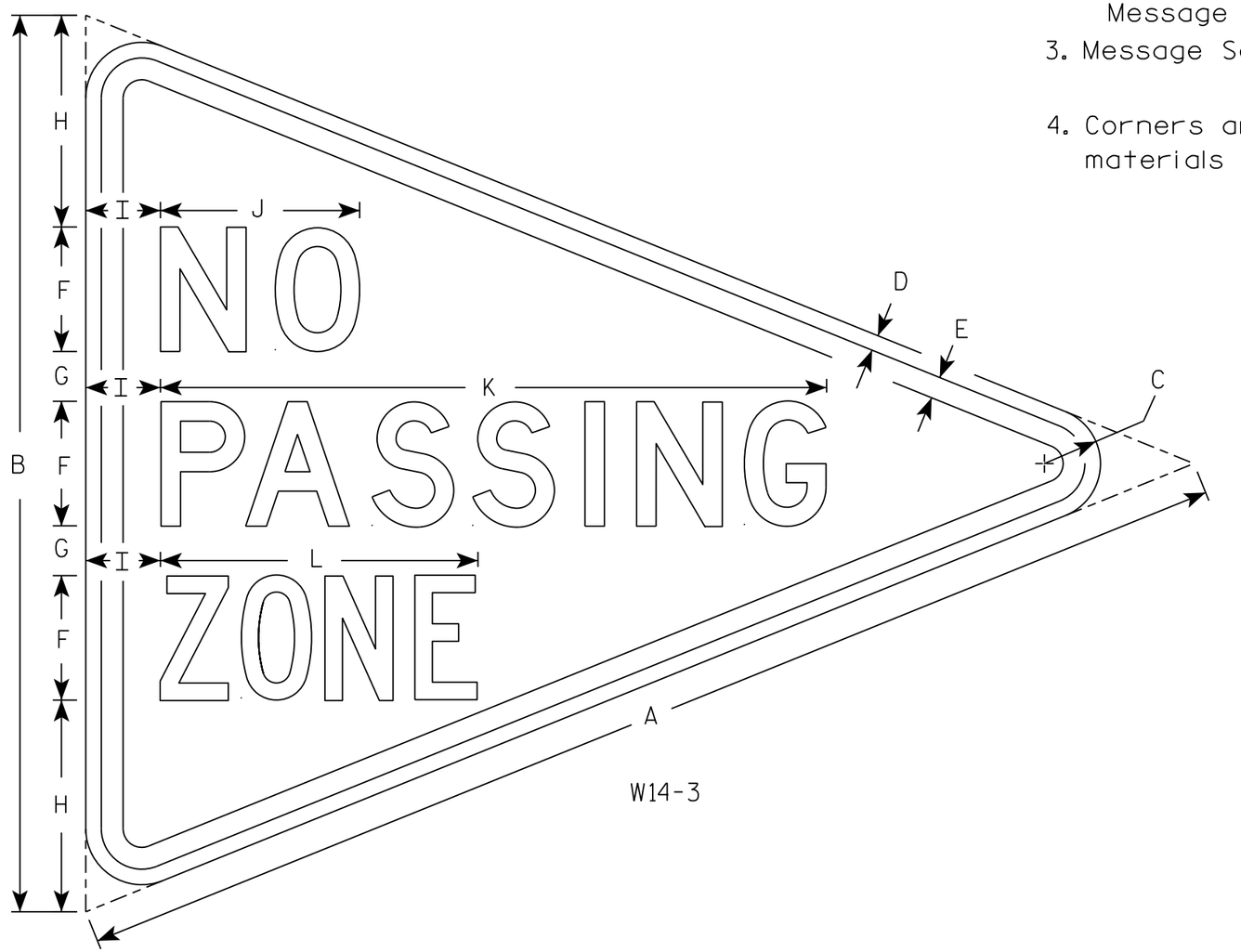
DATE 3/16/11 PLATE NO. W12-52.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 343 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W1252.DGN PLOT DATE : 16-MAR-2011 14:45 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.137199:1.000000
WISDOT/CADDS SHEET 42

NOTES

1. Sign is Type II- Type F Reflective
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																											

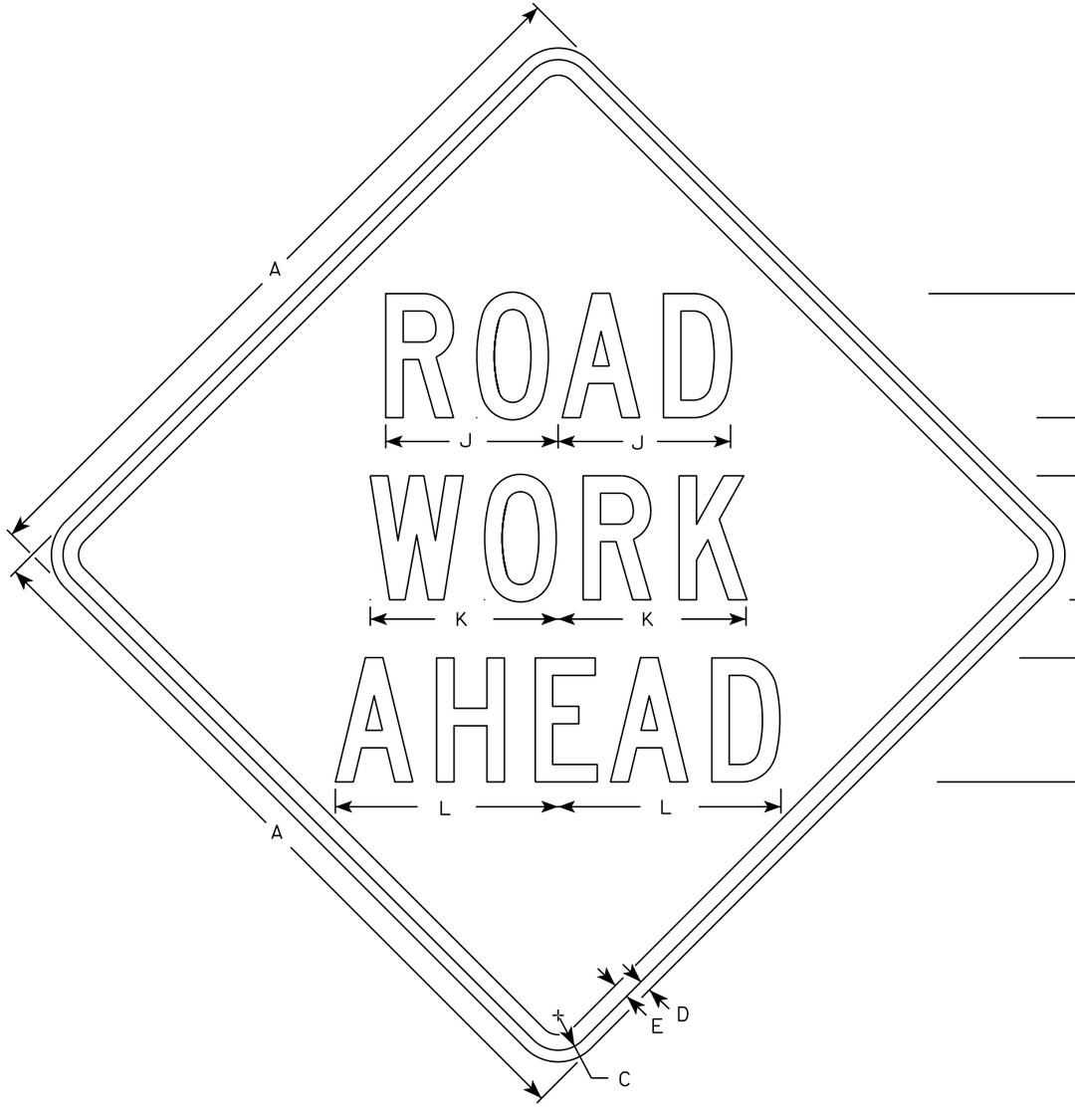
STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

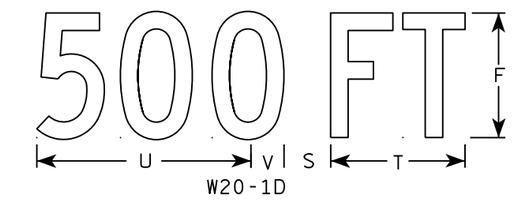
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/17 PLATE NO. W14-3.10

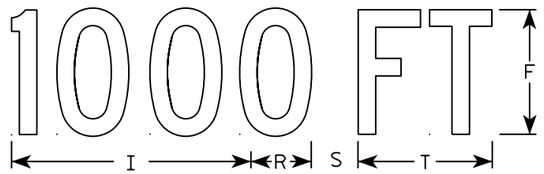
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 344	E



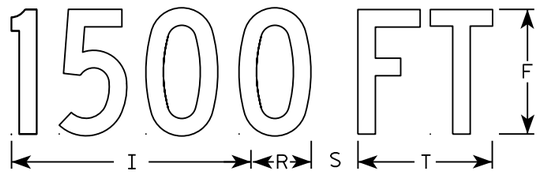
W20-1A



W20-1D



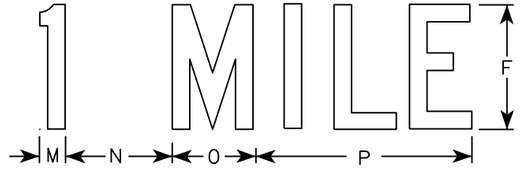
W20-1C



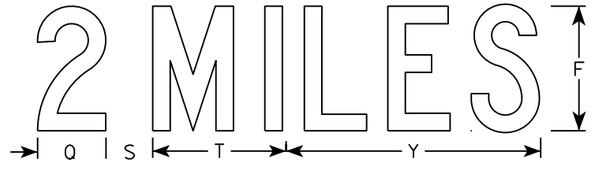
W20-1B



W20-1G



W20-1F



W20-1E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 3/8	1/2	5/8	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9		2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

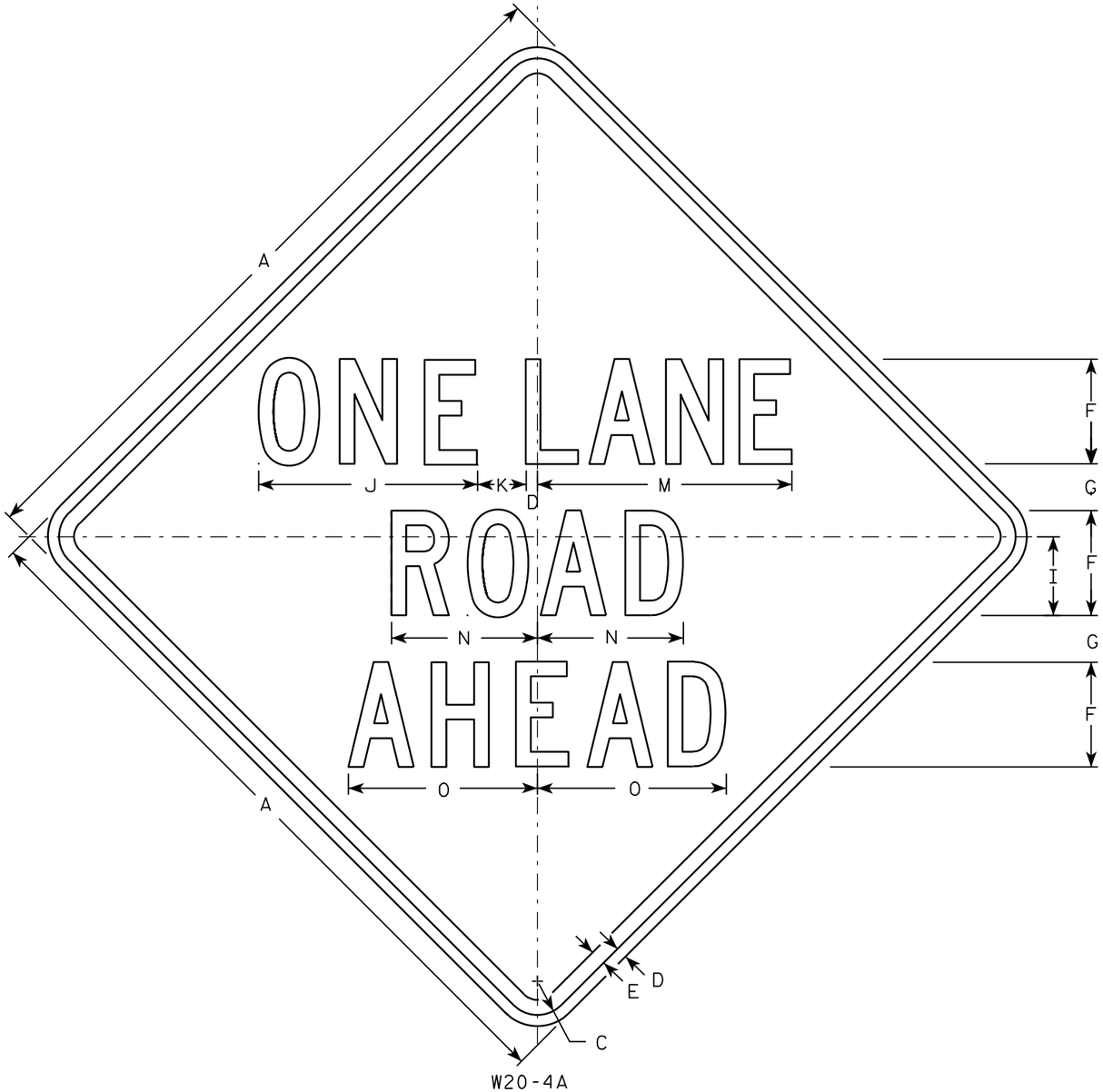
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/07/15 PLATE NO. W20-1.10

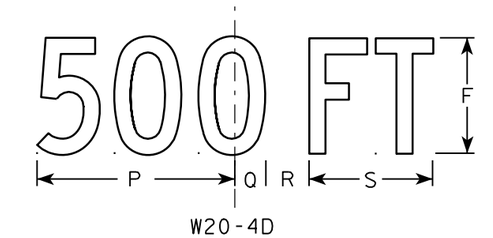
PROJECT NO:

SHEET NO: E

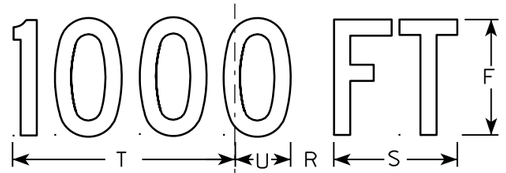
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 01-DEC-2015 18:24 PLOT BY : $$ plotuser $$



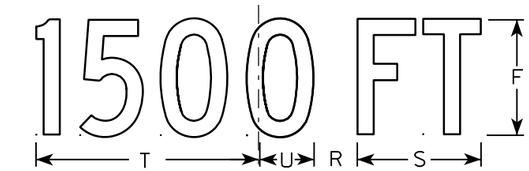
W20-4A



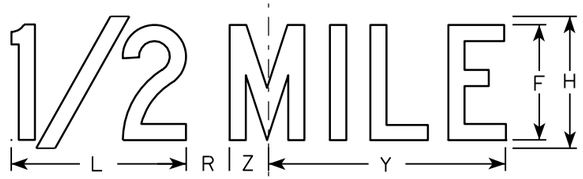
W20-4D



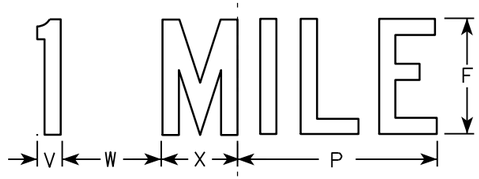
W20-4C



W20-4B



W20-4G



W20-4F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	2 3/8	6	3 3/4	10 3/8	2 3/8	8	13 1/2	7	8 7/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-4A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

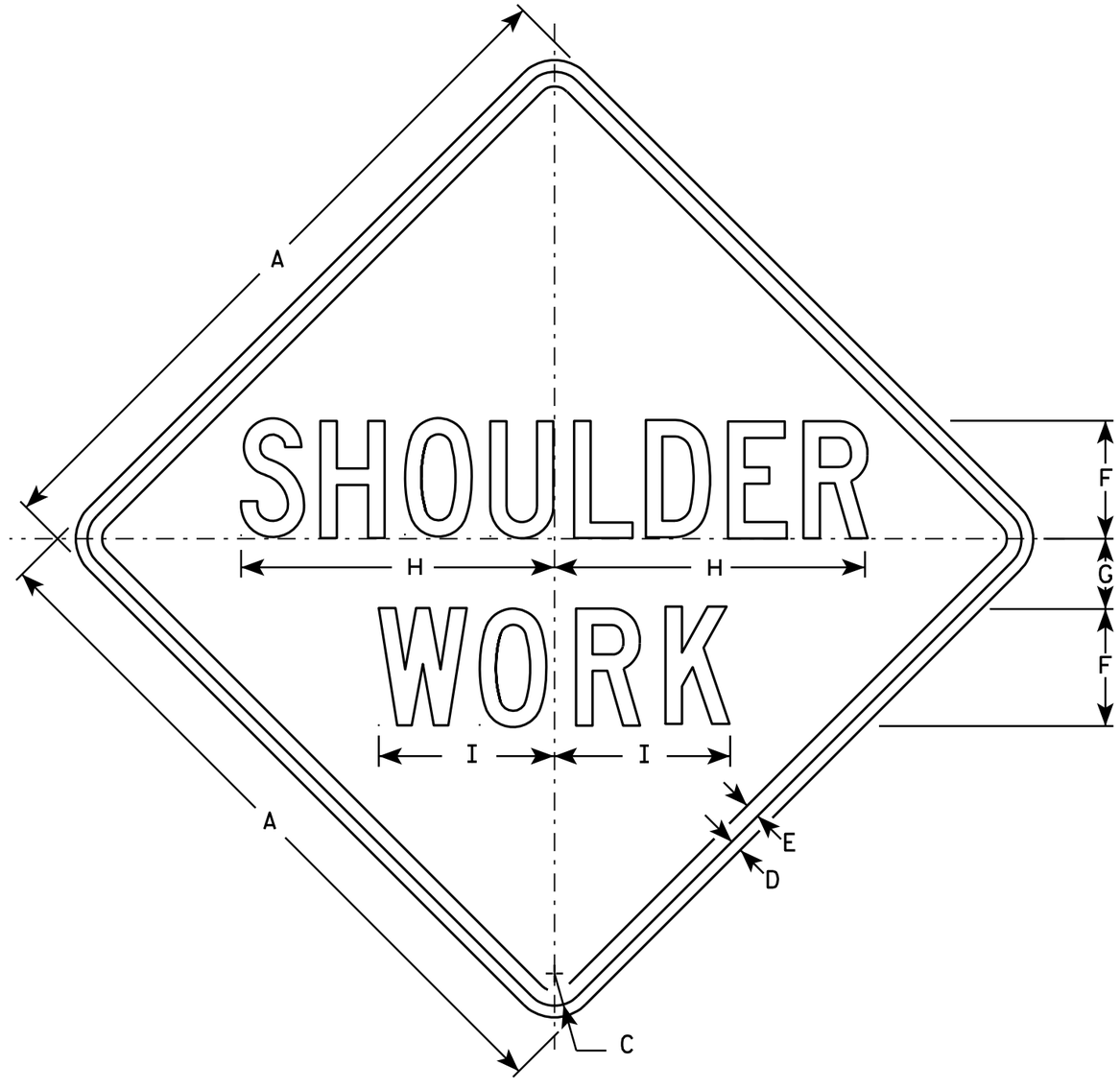
DATE 3/18/11 PLATE NO. W20-4.9

PROJECT NO:

SHEET NO: 346 E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W204.DGN PLOT DATE : 18-MAR-2011 12:11 PLOT BY : mscj9h



W21-5

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	4	2 1/2	10 3/4	6																		4.0
2S	30		1 3/8	1/2	5/8	5	3	13 3/8	7 1/2																		6.25
2M	30		1 3/8	1/2	5/8	5	3	13 3/8	7 1/2																		6.25
3	36		1 5/8	5/8	3/4	6	3 1/2	16	9																		9.0
4	48		2 1/4	3/4	1	8	5	21 3/8	11 1/4																		16.0
5	48		2 1/4	3/4	1	8	5	21 3/8	11 1/4																		16.0

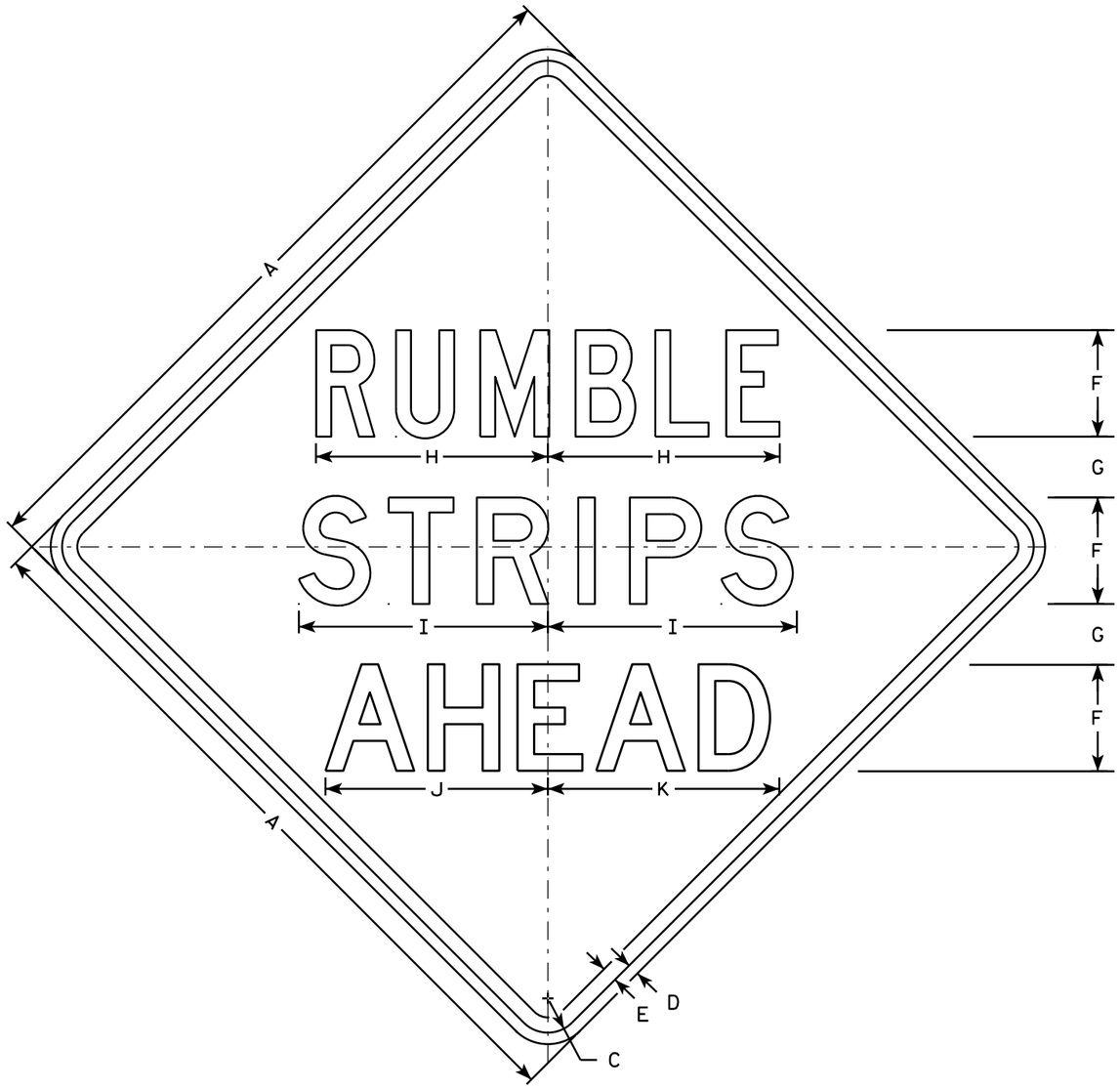
STANDARD SIGN
W21-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/11 PLATE NO. W21-5.5

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 347	E



W21-65

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 C
   Lines 2 and 3 are Series D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 1/4	10 7/8	11 5/8	11	11 5/8																9.0
2S	48		2 1/4	3/4	1	7	4	15 1/4	16 3/8	14 5/8	15 1/4																16.0
2M	48		2 1/4	3/4	1	7	4	15 1/4	16 3/8	14 5/8	15 1/4																16.0
3	48		2 1/4	3/4	1	7	4	15 1/4	16 3/8	14 5/8	15 1/4																16.0
4	48		2 1/4	3/4	1	7	4	15 1/4	16 3/8	14 5/8	15 1/4																16.0
5	48		2 1/4	3/4	1	7	4	15 1/4	16 3/8	14 5/8	15 1/4																16.0

STANDARD SIGN

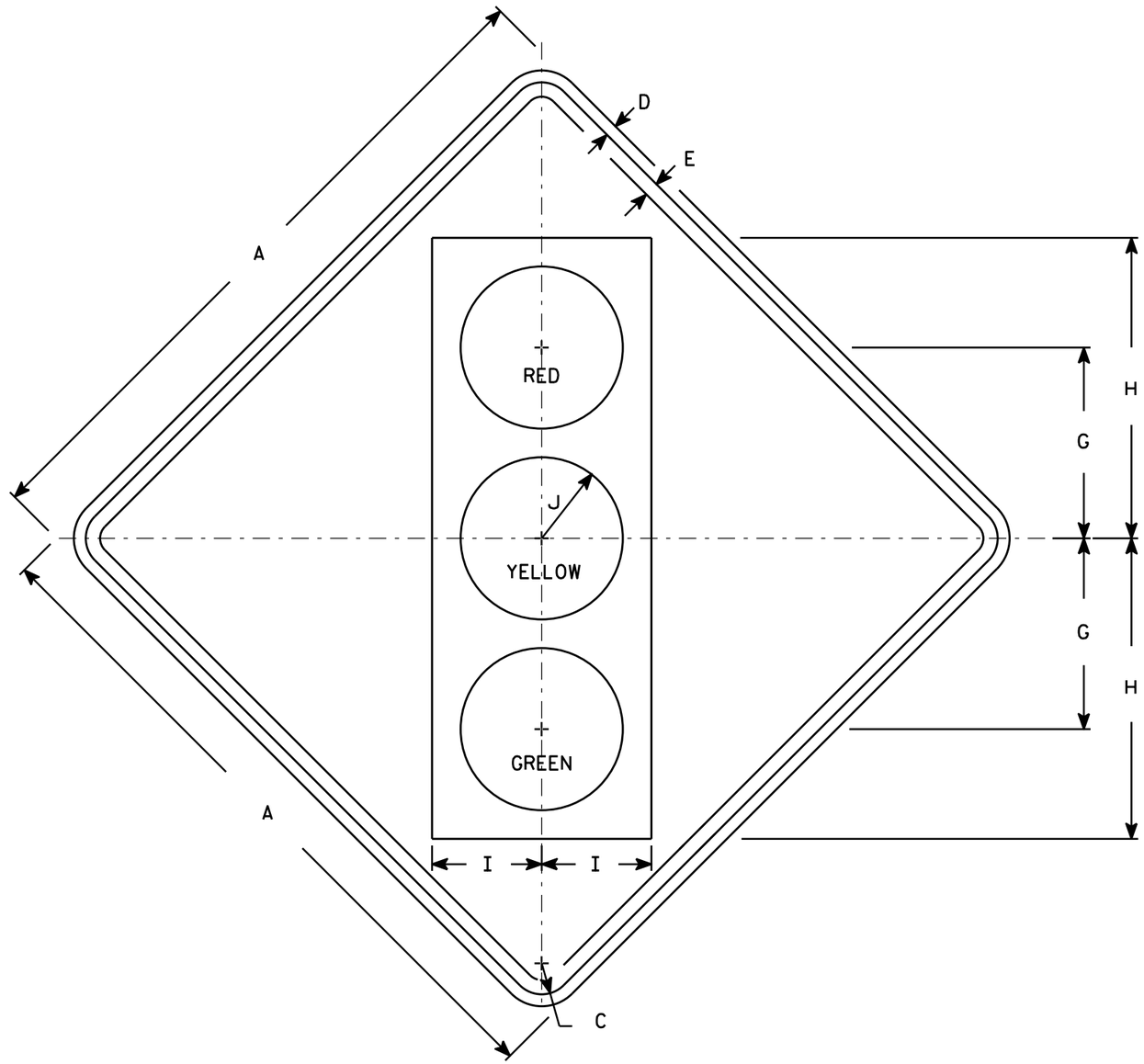
W21-65

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/28/14 PLATE W21-65.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



W03-3

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - 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. Symbol and border are non-reflective black.
   Top circle - Type H Reflectorized Red
   Center circle - Same as background
   Bottom circle - Type H Reflectorized Green

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
2S	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
2M	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
3	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
4	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
5	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0

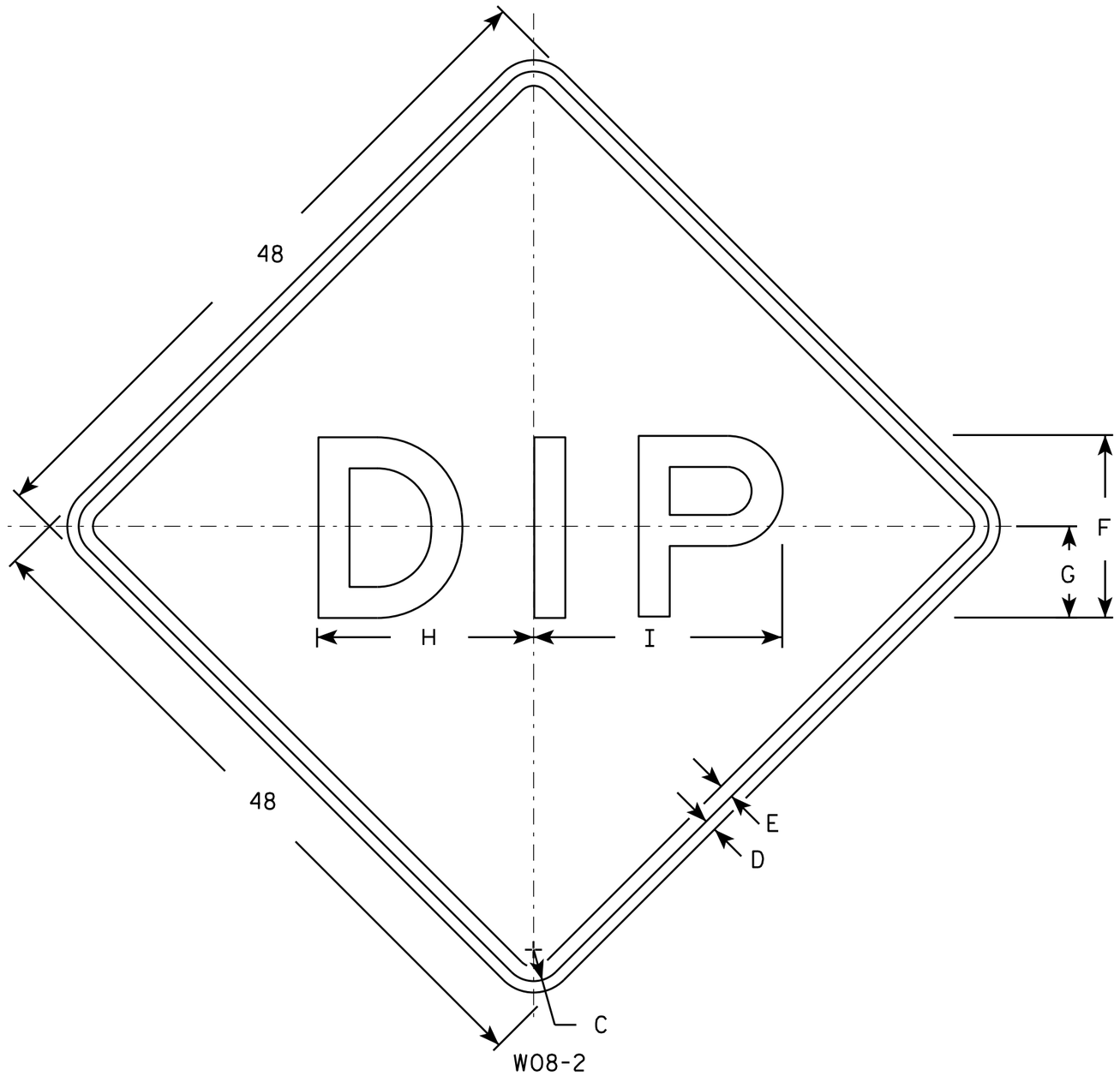
STANDARD SIGN
W03-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLAT 349 W03-3.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	10	5	11 7/8	13 1/2																		9.0
2S	48		2 1/4	3/4	1	12	6	14 1/4	16 1/4																		16.0
2M	48		2 1/4	3/4	1	12	6	14 1/4	16 1/4																		16.0
3	48		2 1/4	3/4	1	12	6	14 1/4	16 1/4																		16.0
4	48		2 1/4	3/4	1	12	6	14 1/4	16 1/4																		16.0
5	48		2 1/4	3/4	1	12	6	14 1/4	16 1/4																		16.0

STANDARD SIGN
W08-2

WISCONSIN DEPT OF TRANSPORTATION

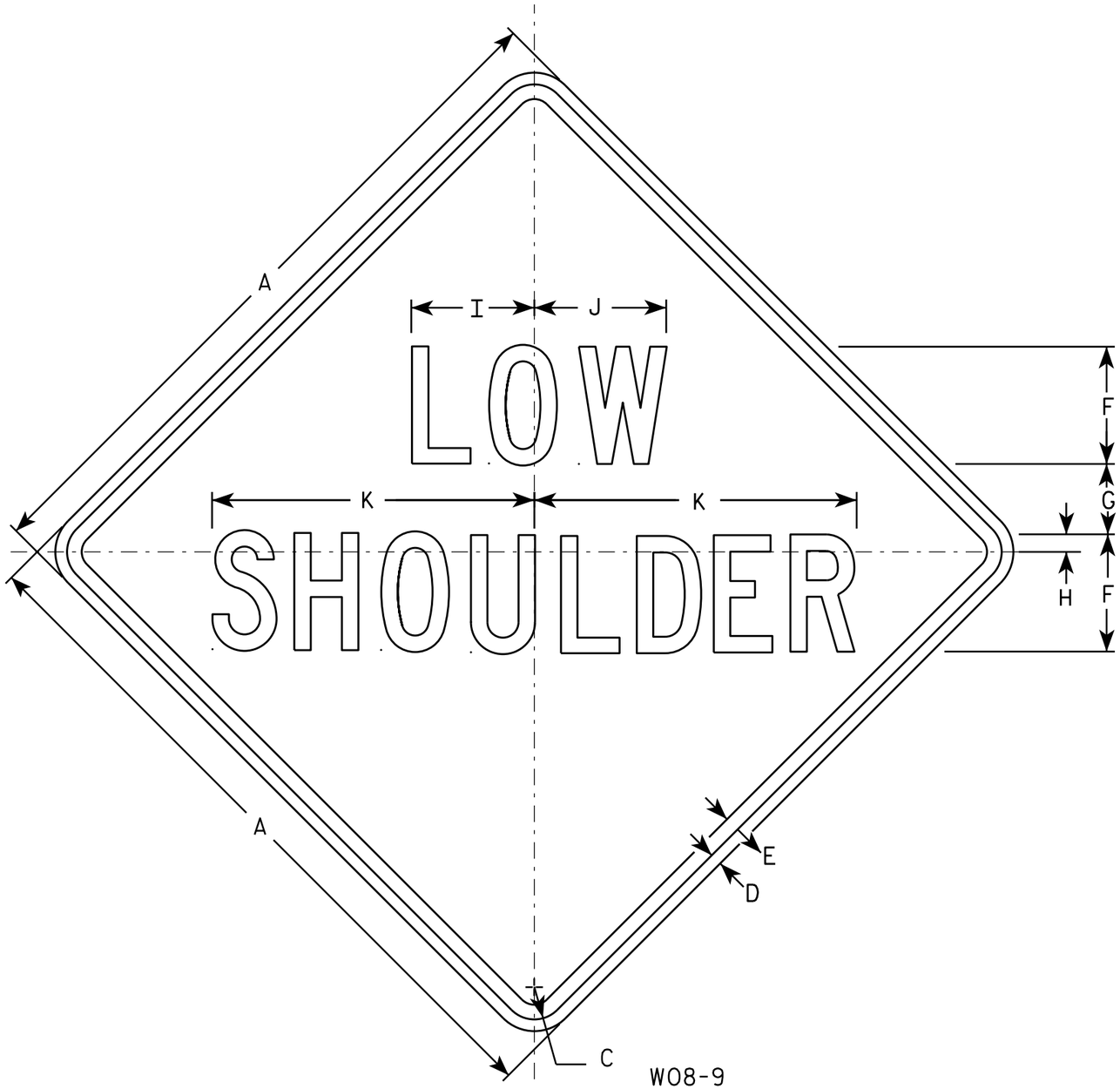
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 1350 3-2.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W082.DGN PLOT DATE : 20-NOV-2013 13:01 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.827959:1.000000

7



W08-9

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	6	3 1/2	1	6 1/4	6 3/4	16 1/2																9.0
2S	48		2 1/4	3/4	1	8	5	1 1/4	8 1/4	9	21 7/8																16.0
2M	48		2 1/4	3/4	1	8	5	1 1/4	8 1/4	9	21 7/8																16.0
3	48		2 1/4	3/4	1	8	5	1 1/4	8 1/4	9	21 7/8																16.0
4	48		2 1/4	3/4	1	8	5	1 1/4	8 1/4	9	21 7/8																16.0
5	48		2 1/4	3/4	1	8	5	1 1/4	8 1/4	9	21 7/8																16.0

STANDARD SIGN
W08-9

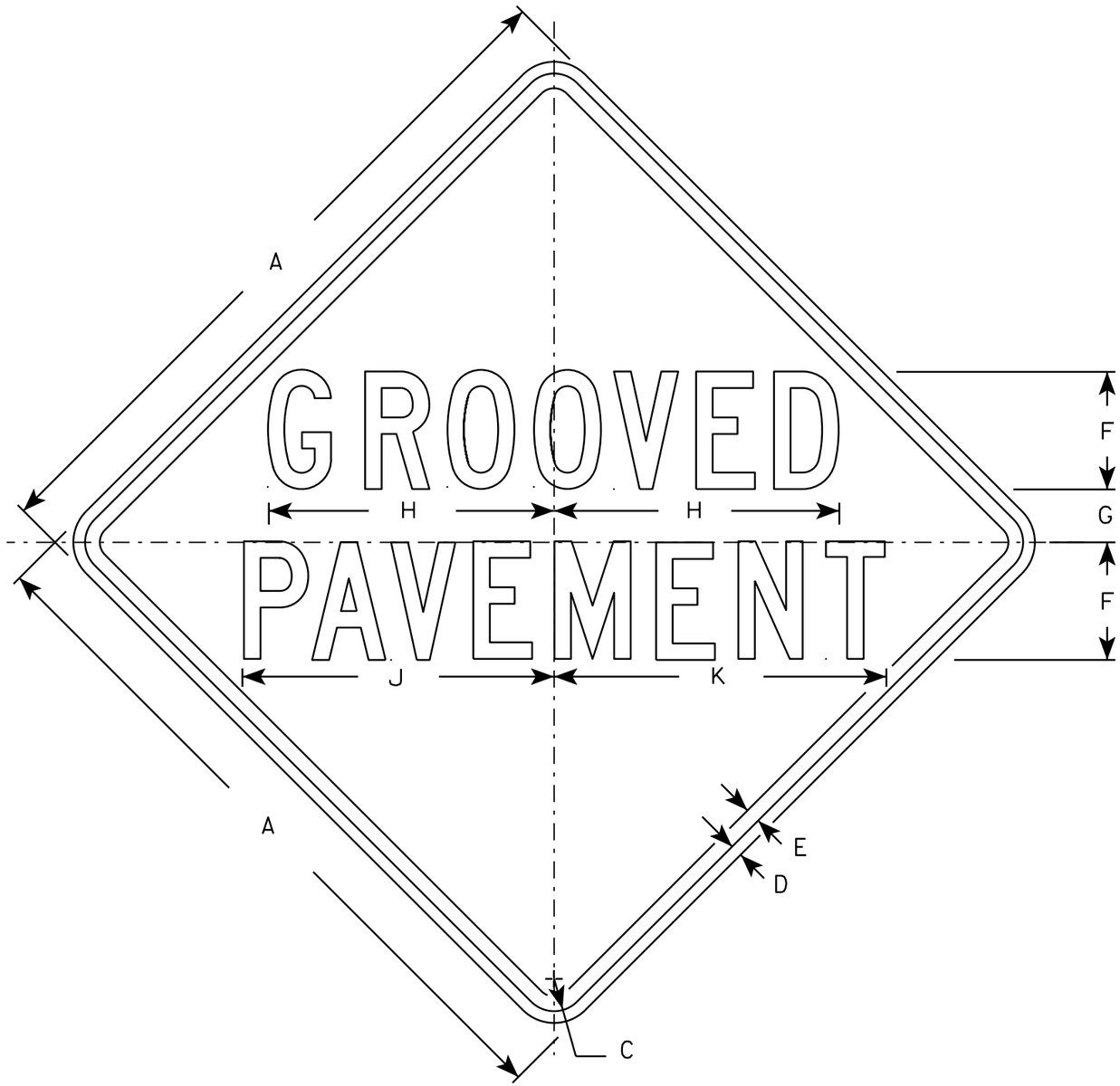
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE W08-9.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W089.DGN PLOT DATE : 20-NOV-2013 14:06 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.755110:1.000000
WISDOT/CADDS SHEET 42



W08-52

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	6	2 5/8	14 1/2		15 7/8	17																9.0
2S	48		2 1/4	3/4	1	8	3 1/2	19 3/8		21 1/4	22 5/8																16.0
2M	48		2 1/4	3/4	1	8	3 1/2	19 3/8		21 1/4	22 5/8																16.0
3	48		2 1/4	3/4	1	8	3 1/2	19 3/8		21 1/4	22 5/8																16.0
4	48		2 1/4	3/4	1	8	3 1/2	19 3/8		21 1/4	22 5/8																16.0
5	48		2 1/4	3/4	1	8	3 1/2	19 3/8		21 1/4	22 5/8																16.0

STANDARD SIGN
W08-52

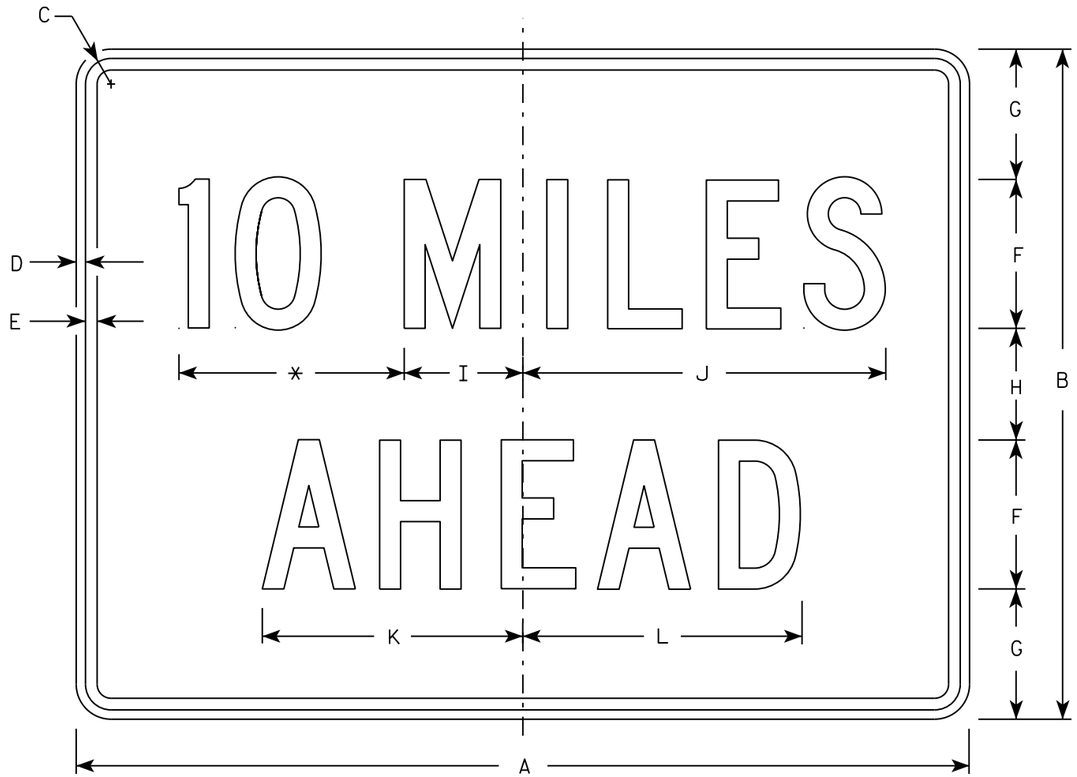
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

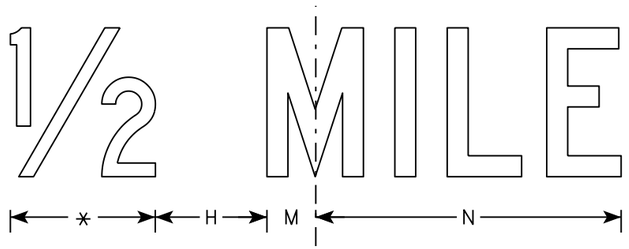
DATE 11/20/13 PLATE NO W08-52.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W0852.DGN PLOT DATE : 28-FEB-2014 11:41 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 6.997243:1.000000
WISDOT/CADDS SHEET 42



W057-52



NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to the nearest quarter mile and optically adjust spacing to achieve proper balance.

* See note 5

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	24	1 1/8	3/8	1/2	6	4 1/2	3	4 3/4	14 5/8	10 5/8	11 3/8	2	12													6.0
2S	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
2M	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
3	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
4	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
5	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0

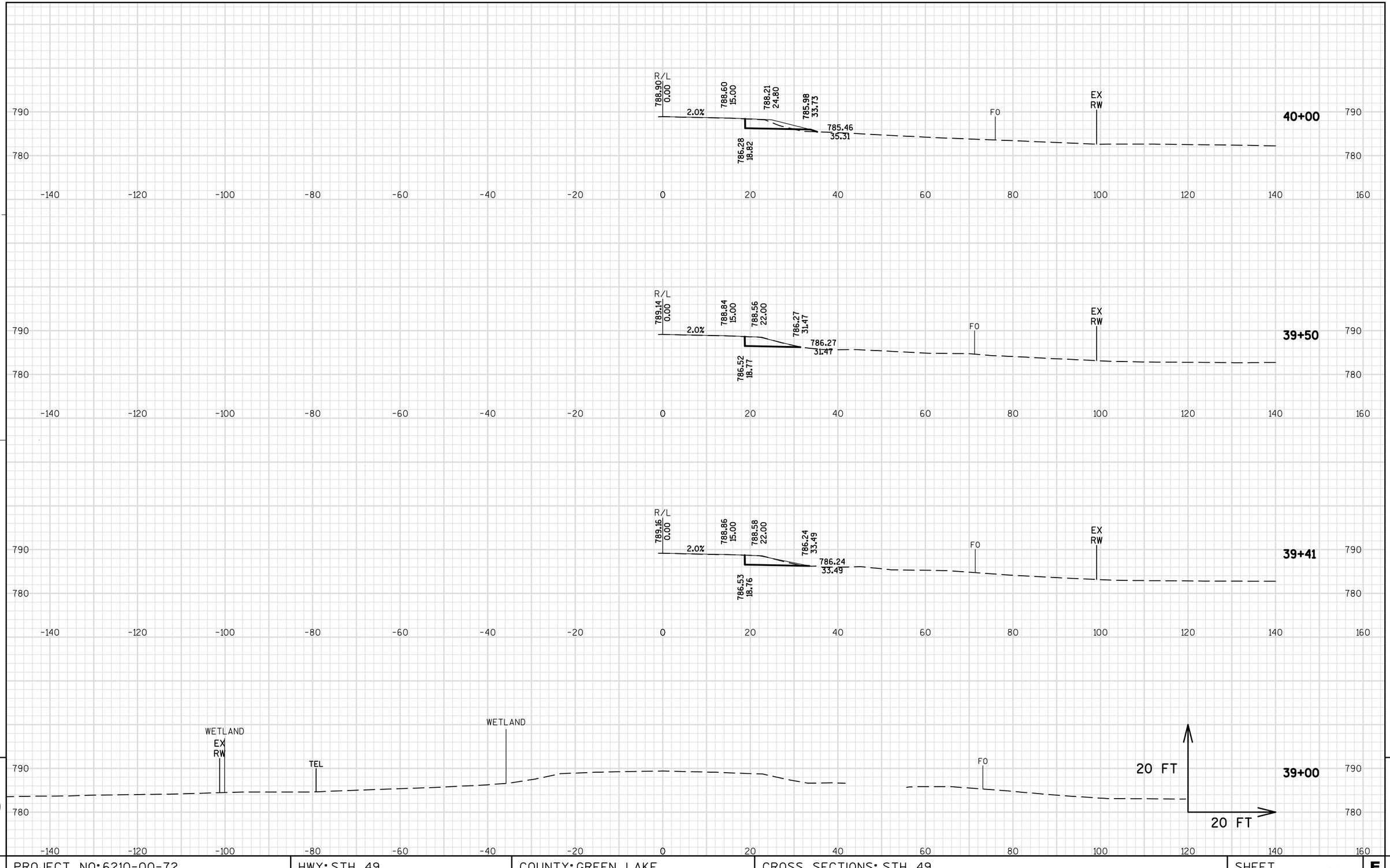
STANDARD SIGN
W057-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/17 PLATE NO. W057-52.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 353	E

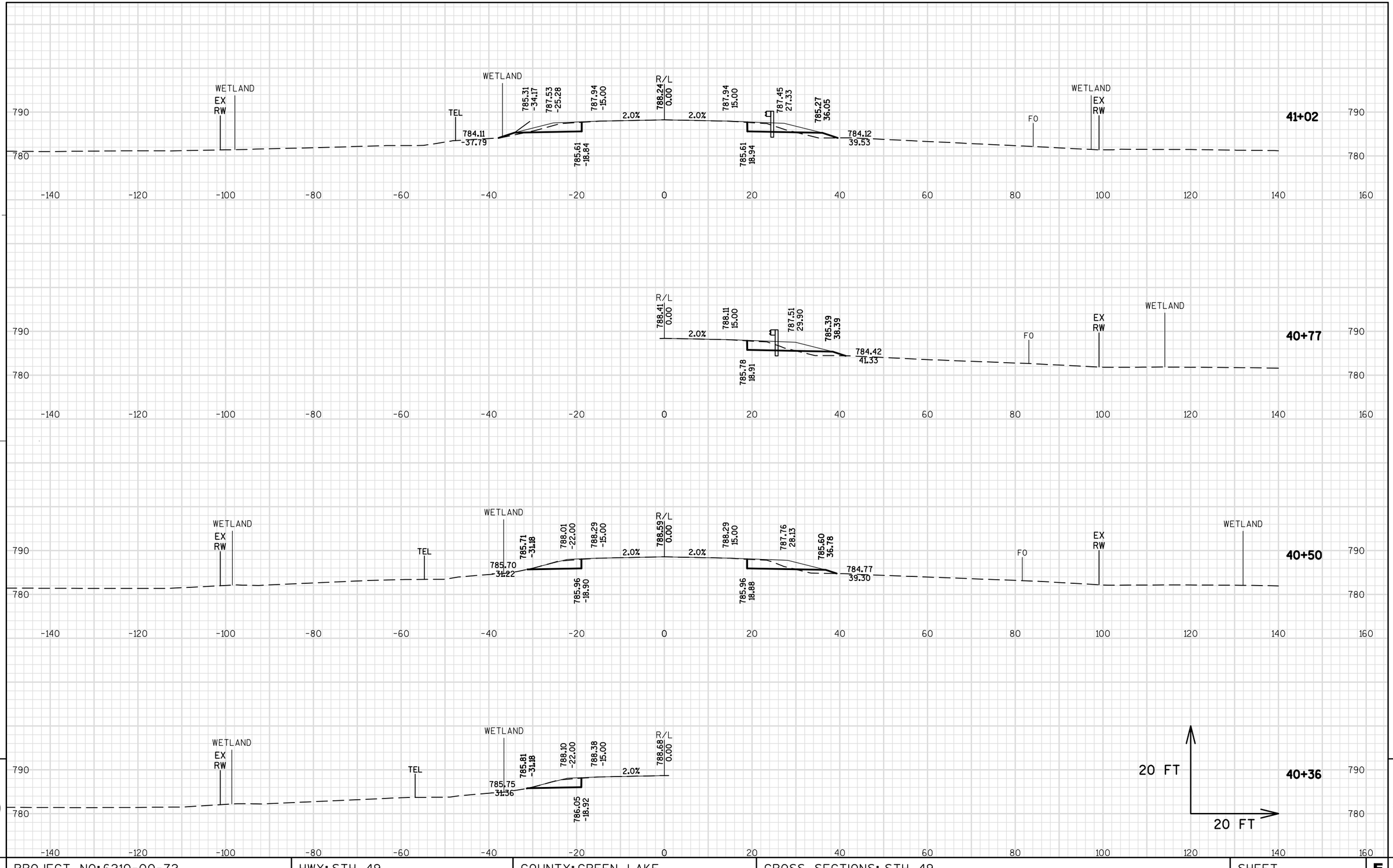


9

9

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 354	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG
PLOT DATE : 2/5/2018 12:33 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********
WISDOT/CADDS SHEET 49



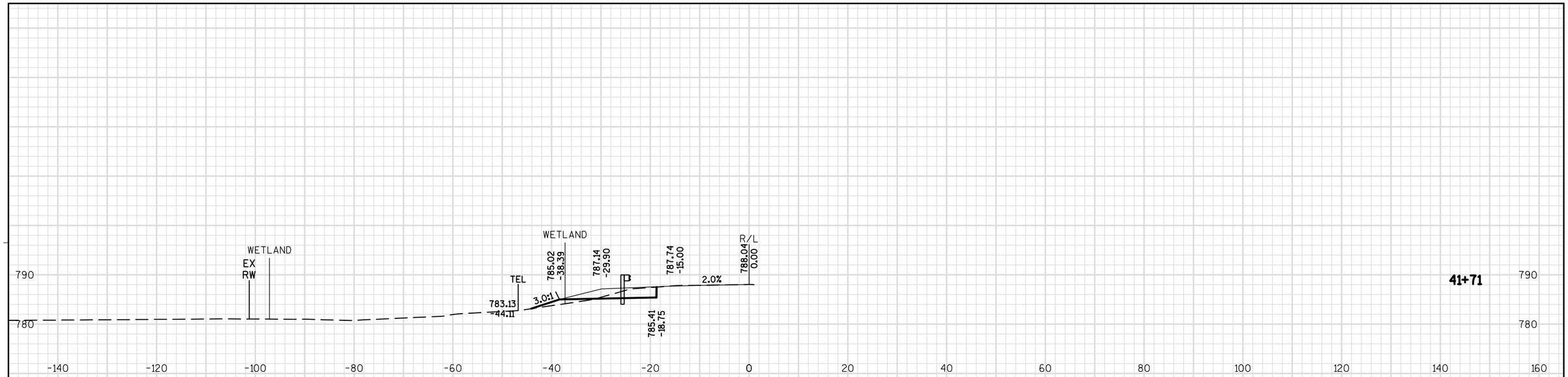
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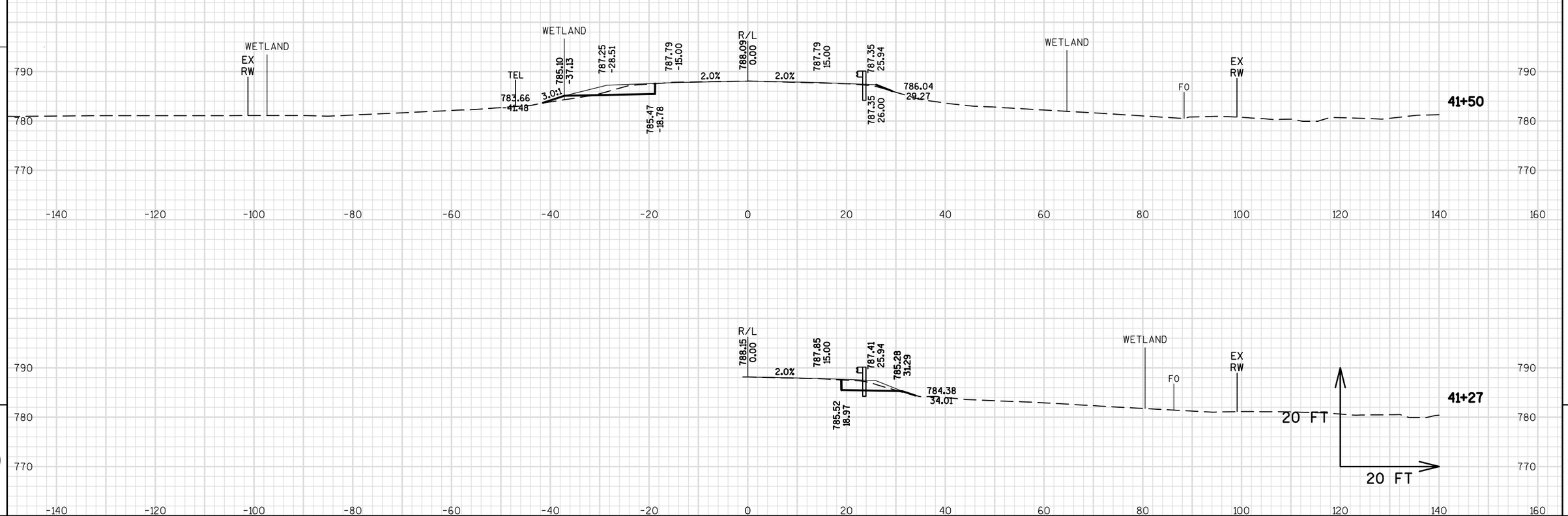
9

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 355	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:33 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

WISDOT/CADDS SHEET 49



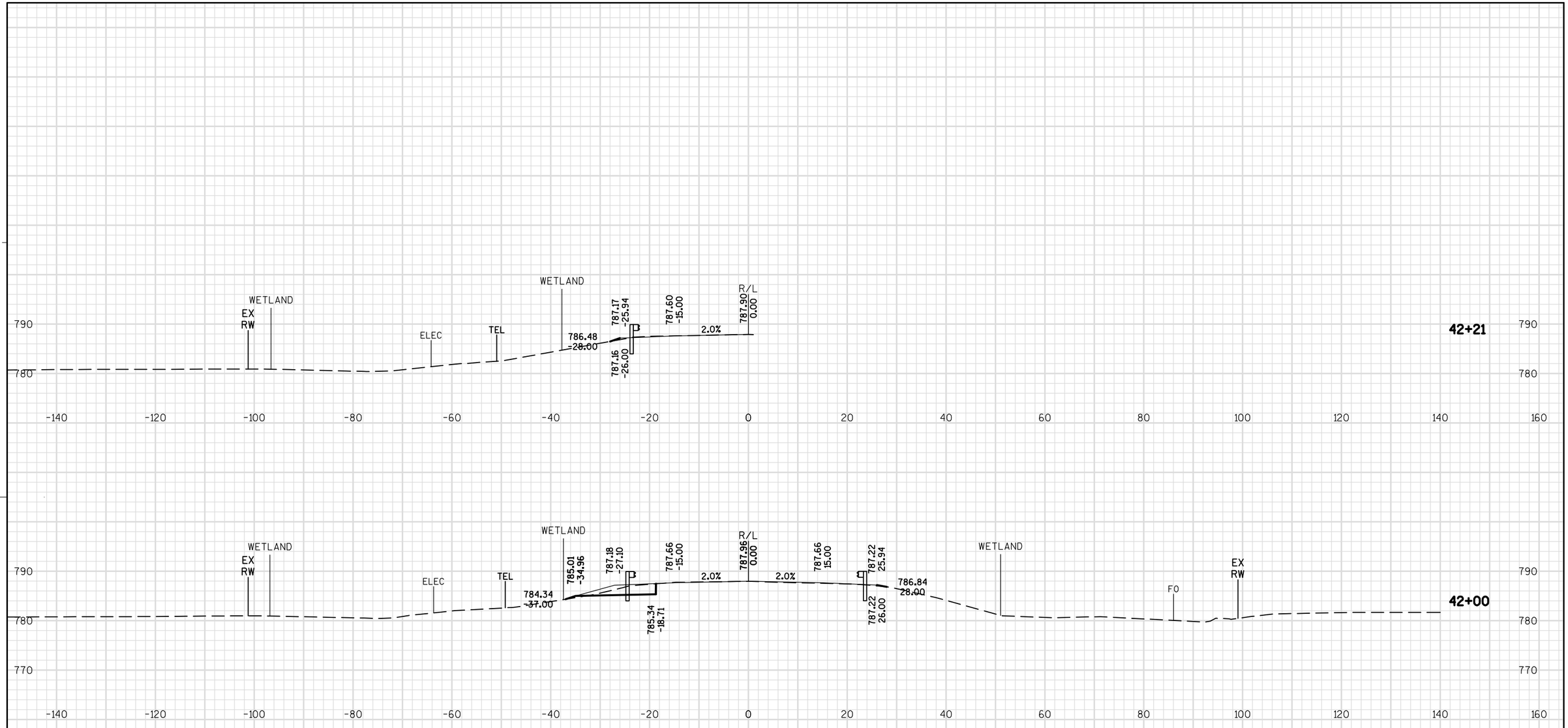


9

9

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG
PLOT DATE : 2/5/2018 12:33 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : **********
WISDOT/CADDS SHEET 49

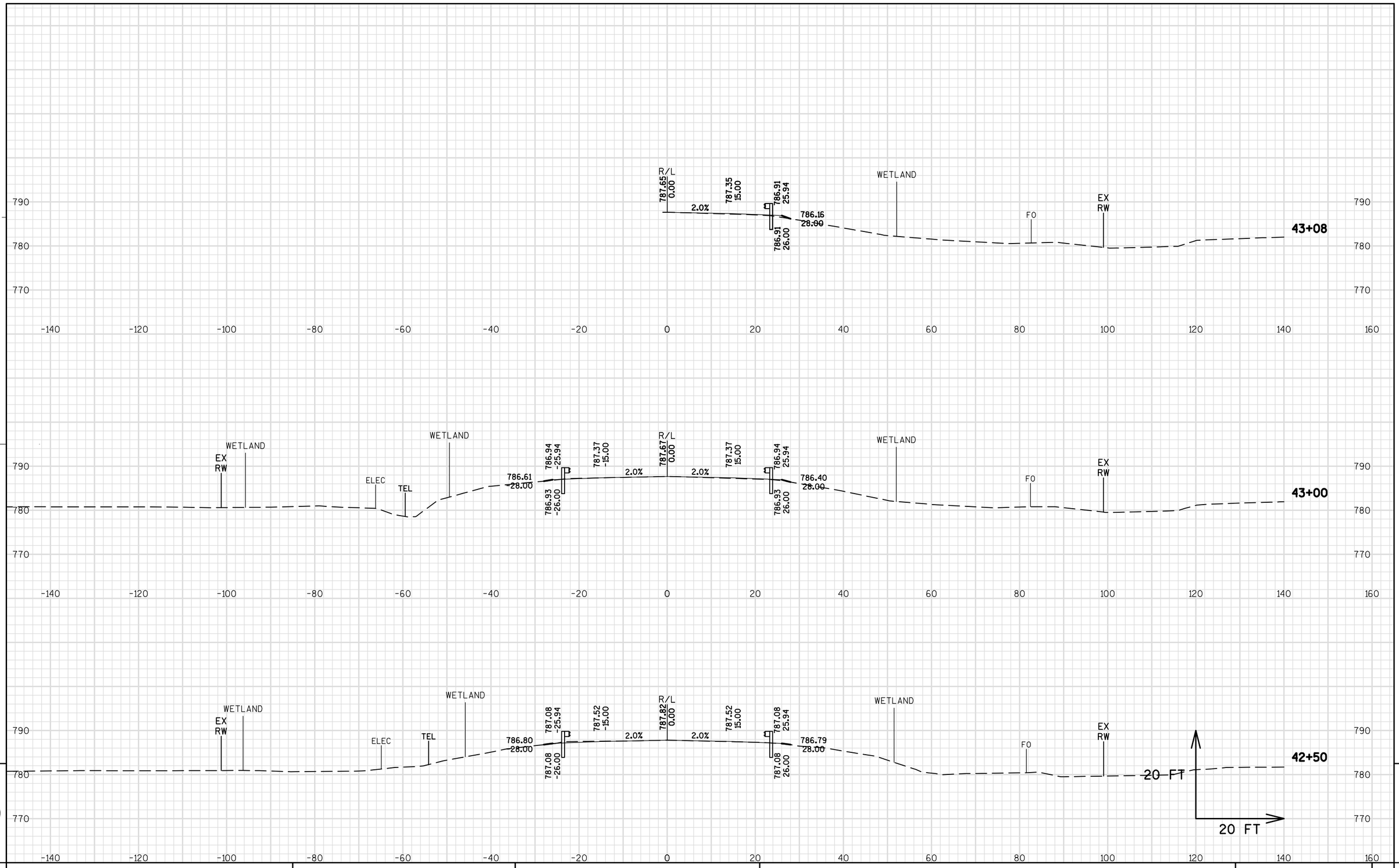


9

9

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 357	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:33 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : ********* WISDOT/CADDS SHEET 49



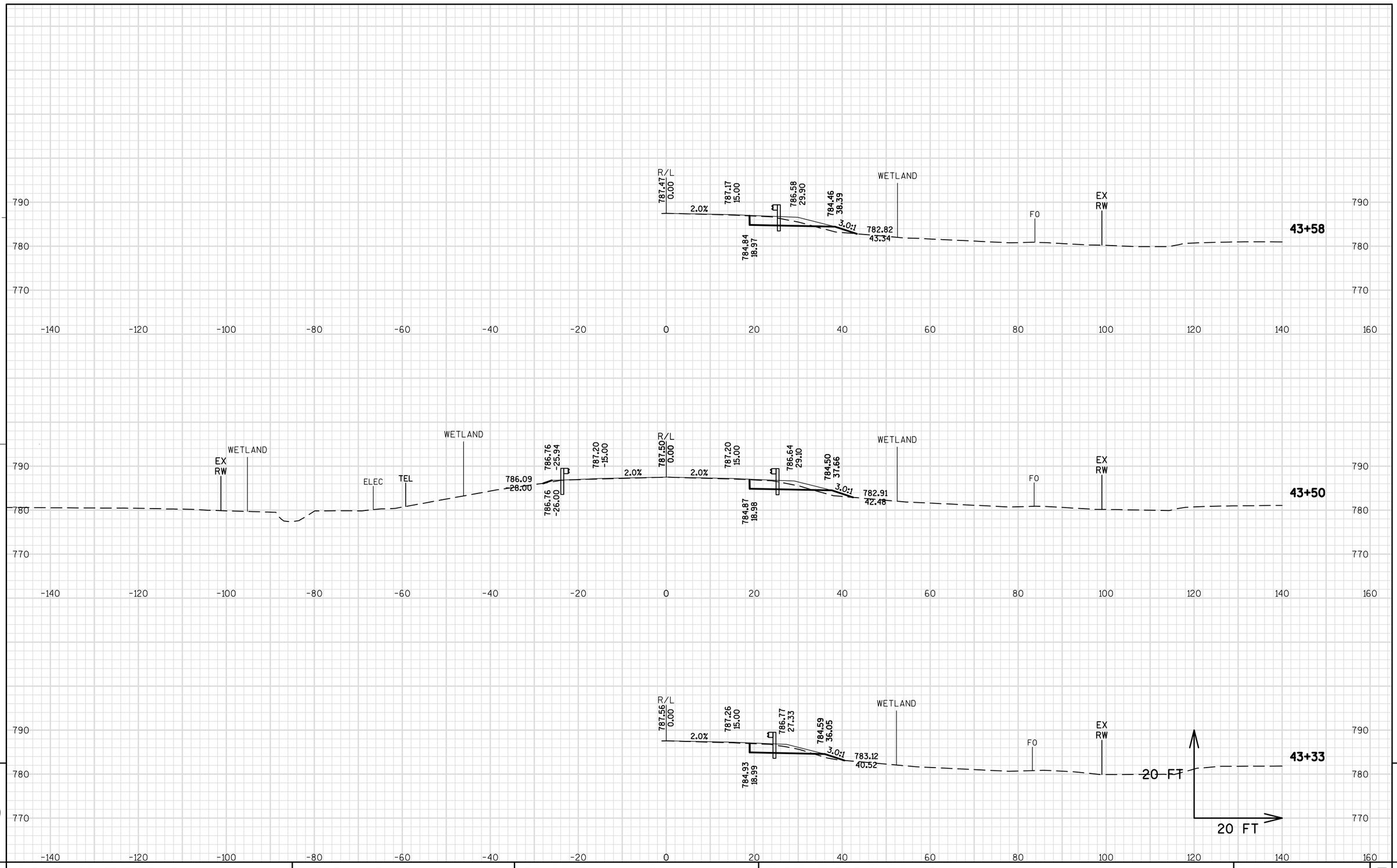
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9

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:33 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

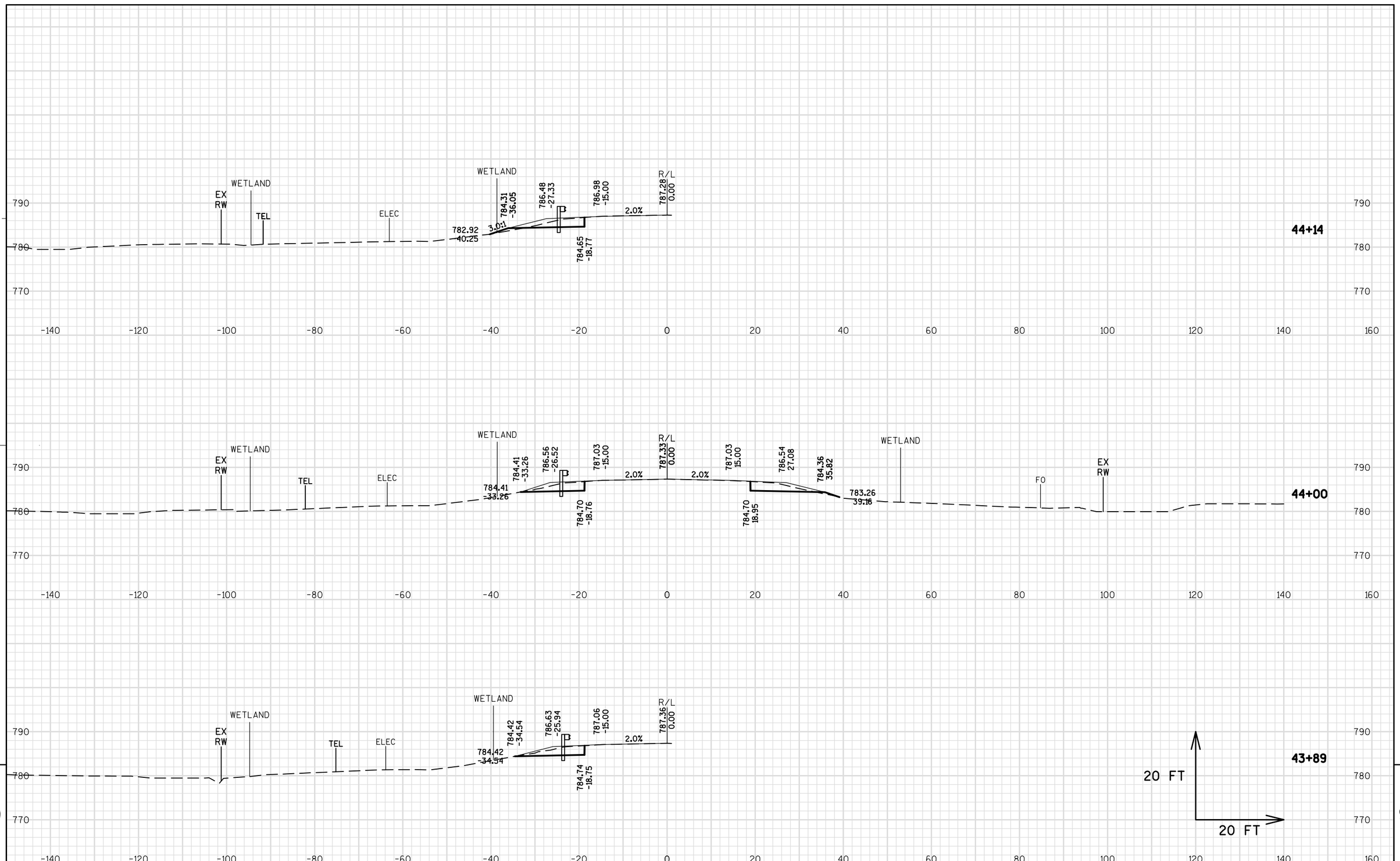
WISDOT/CADDS SHEET 49



PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 359 E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:33 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

WISDOT/CADDS SHEET 49



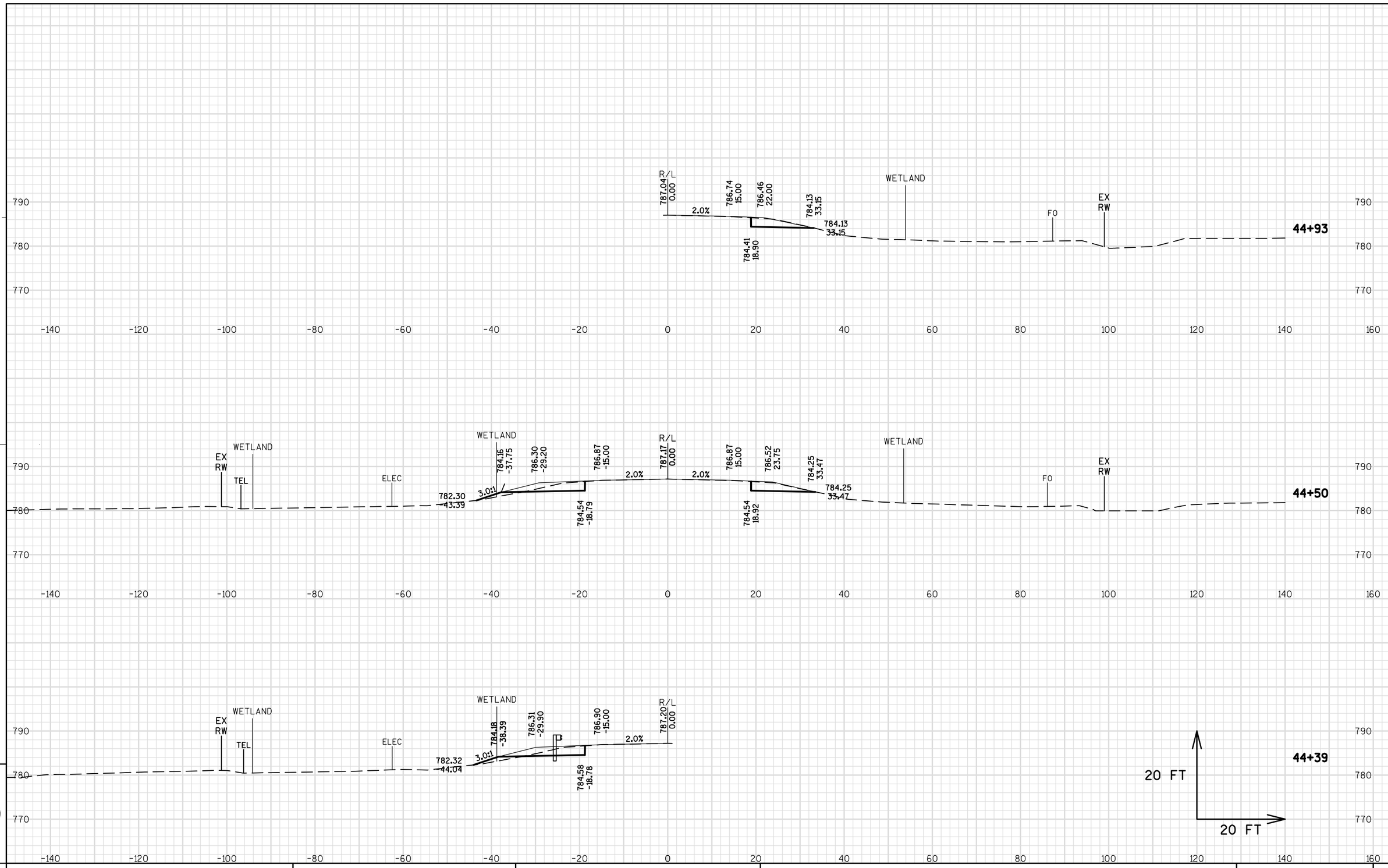
9

9

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 360	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:33 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

WISDOT/CADDS SHEET 49



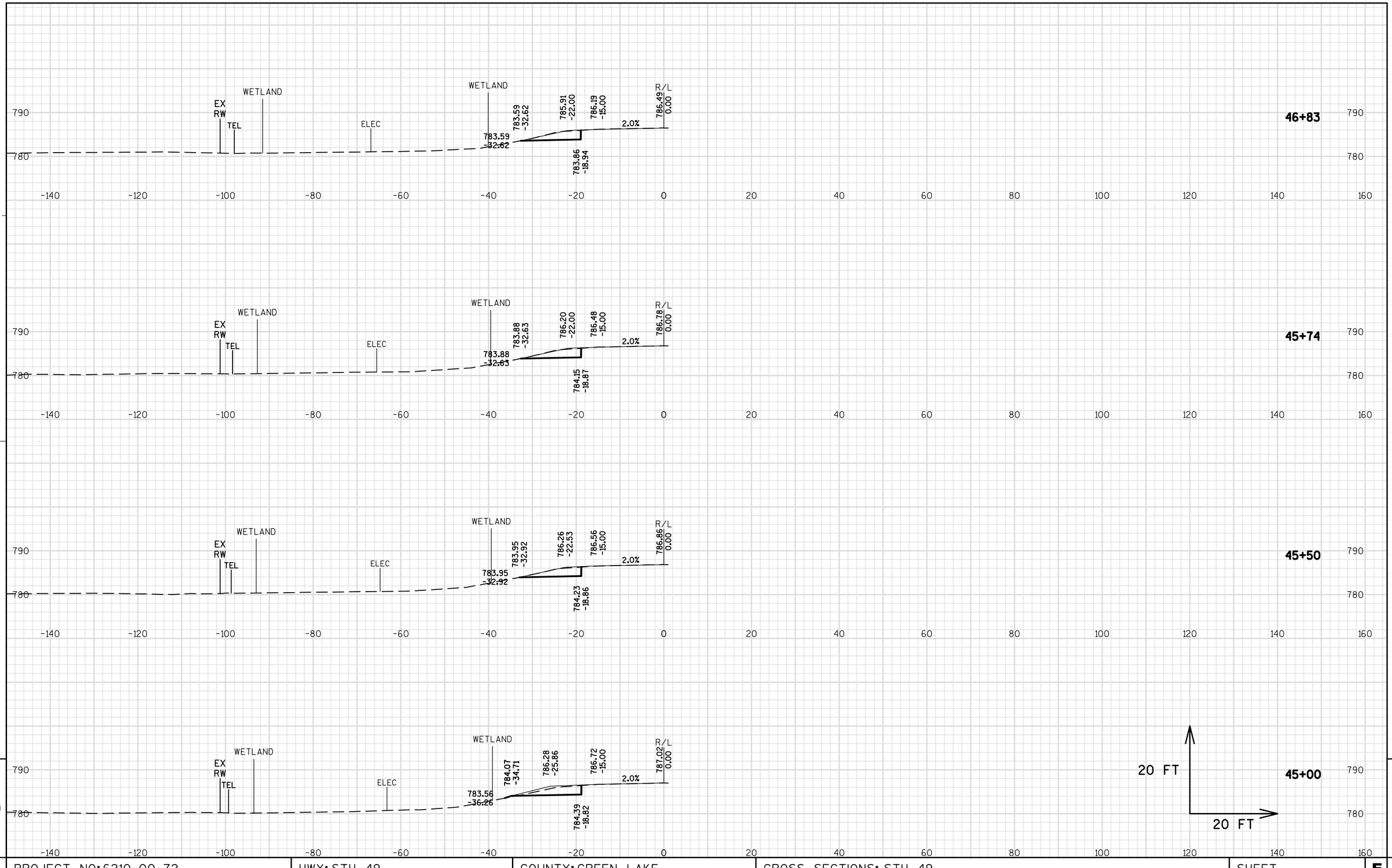
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:34 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

WISDOT/CADDS SHEET 49



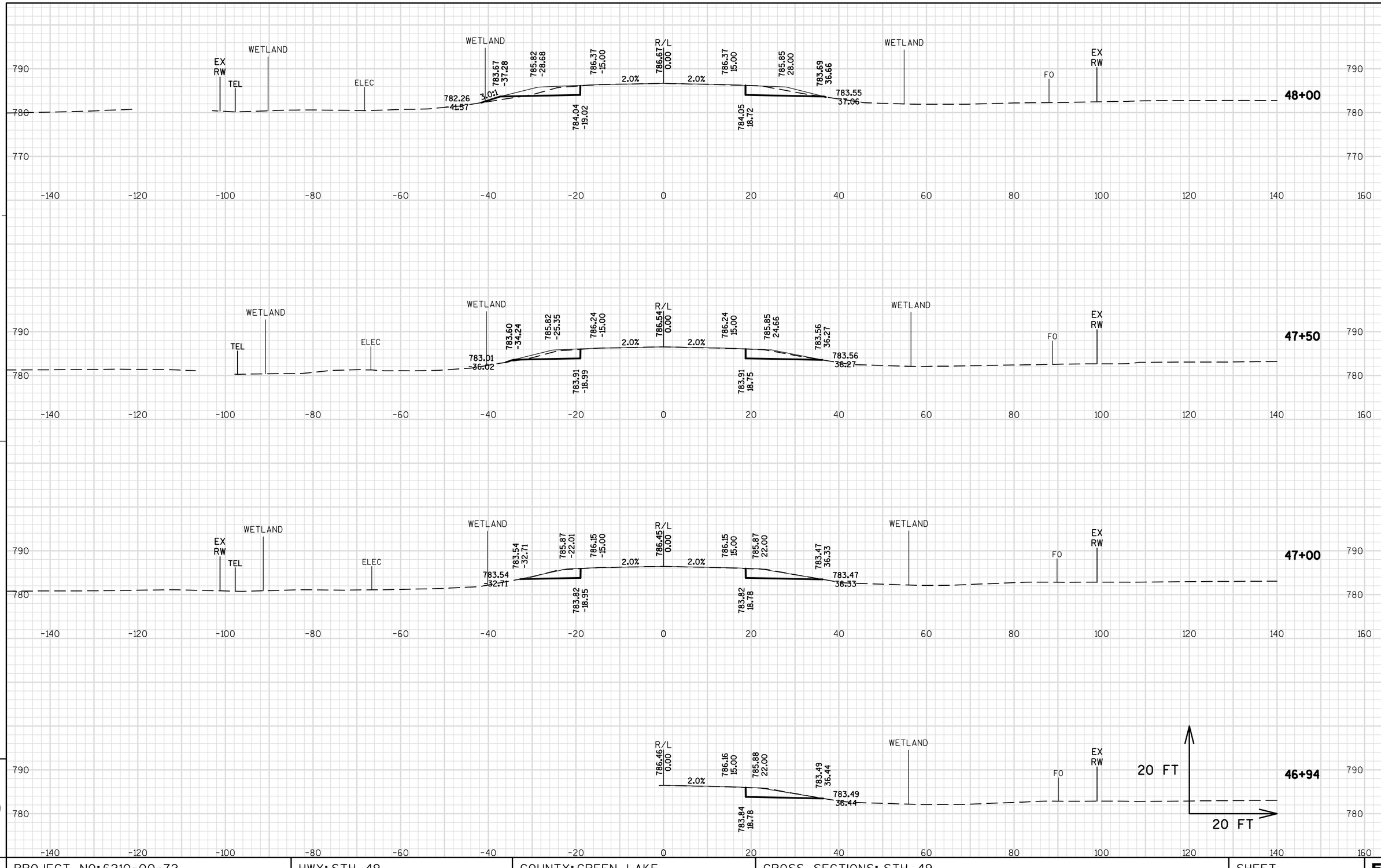
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 362	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:34 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

WISDOT/CADDS SHEET 49



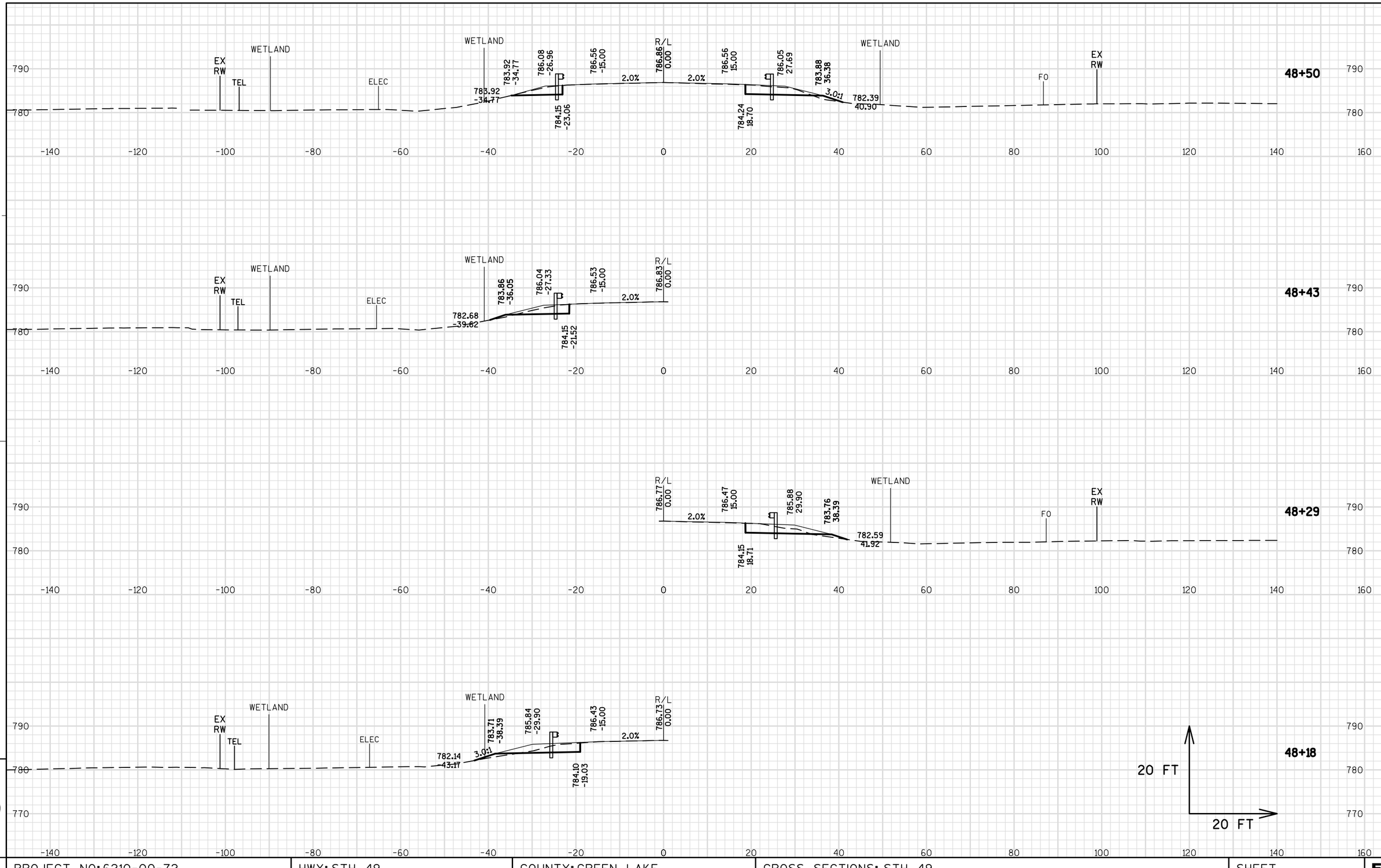
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 363	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:34 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

WISDOT/CADDS SHEET 49



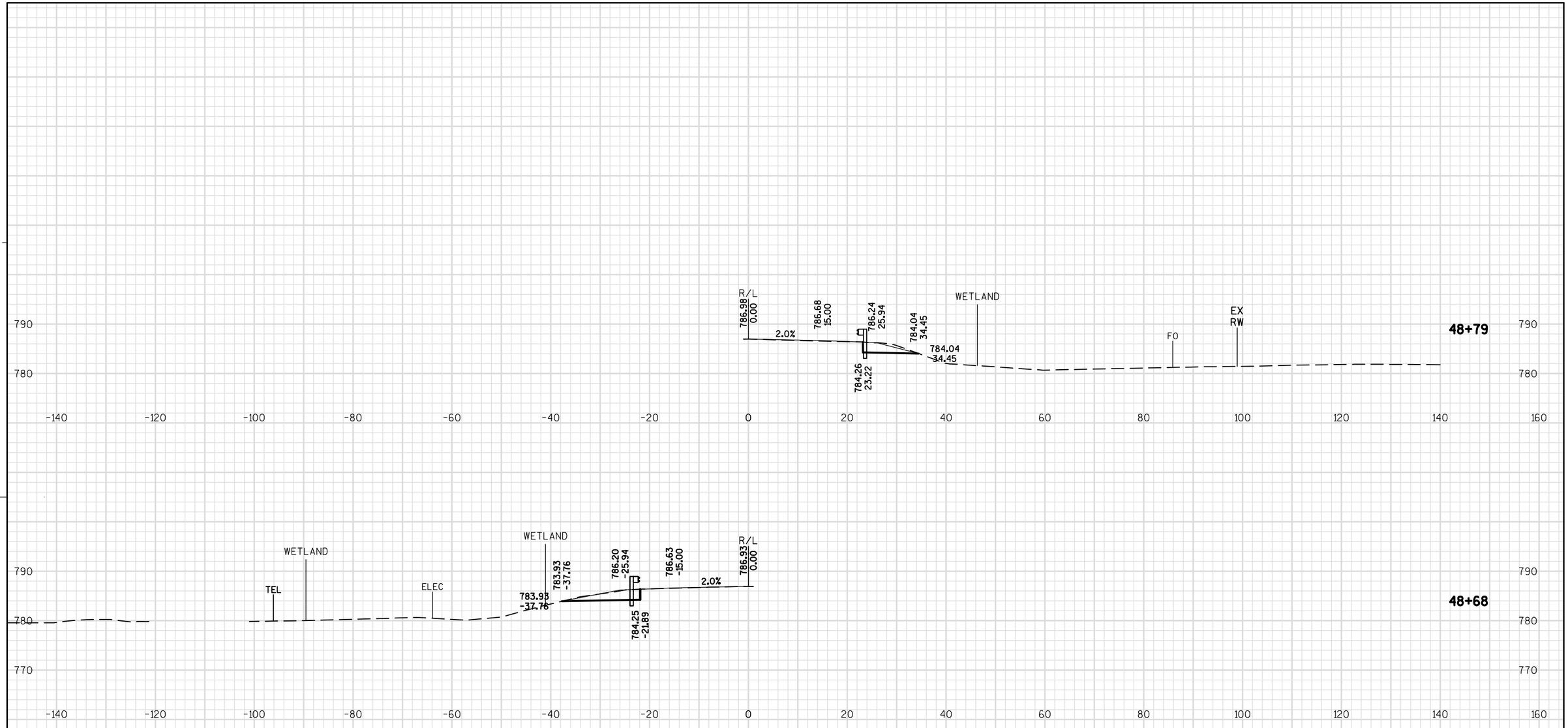
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:34 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

WISDOT/CADDS SHEET 49



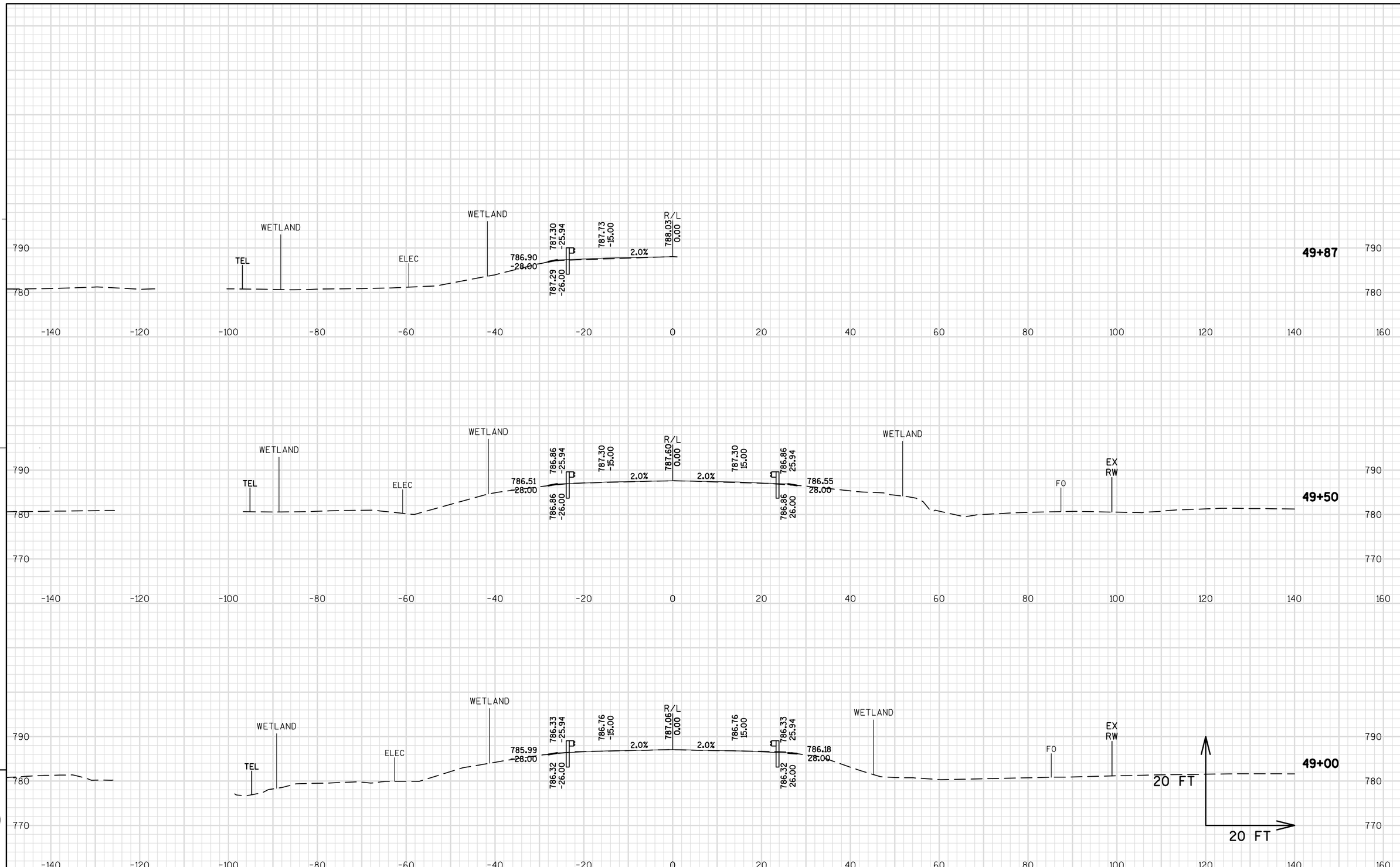
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 365	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:34 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 49



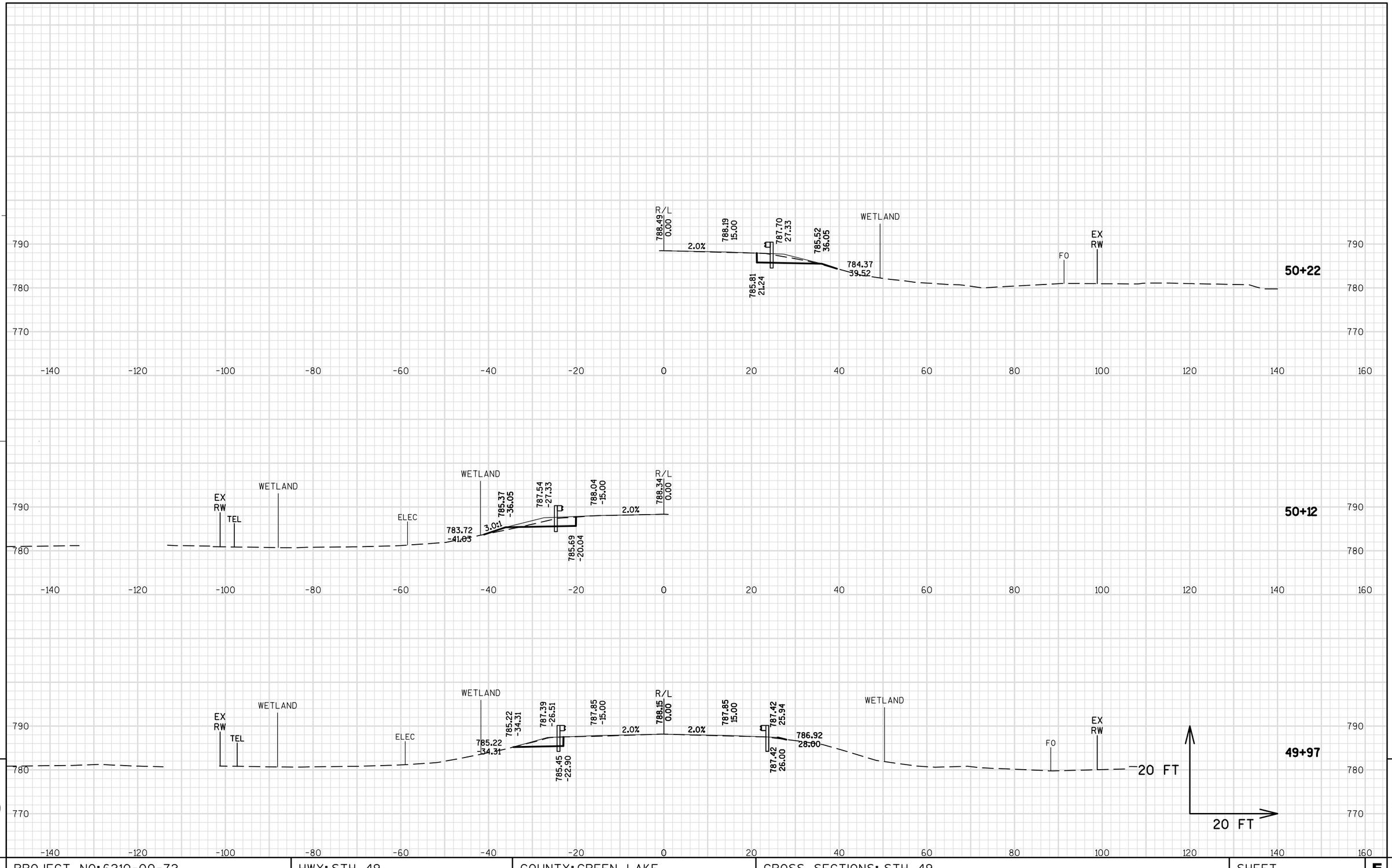
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 366	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:34 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

WISDOT/CADDS SHEET 49



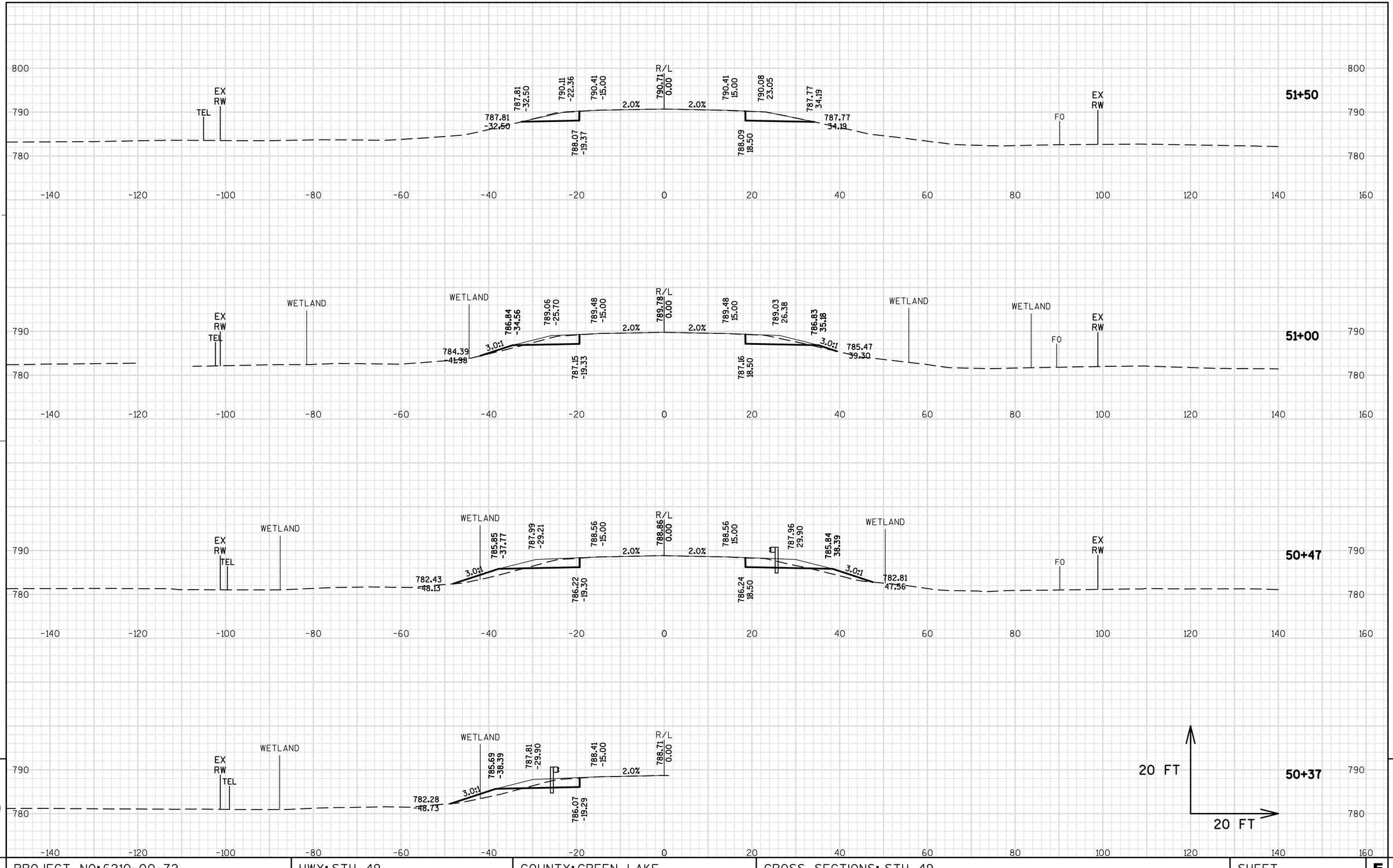
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:34 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

WISDOT/CADDS SHEET 49

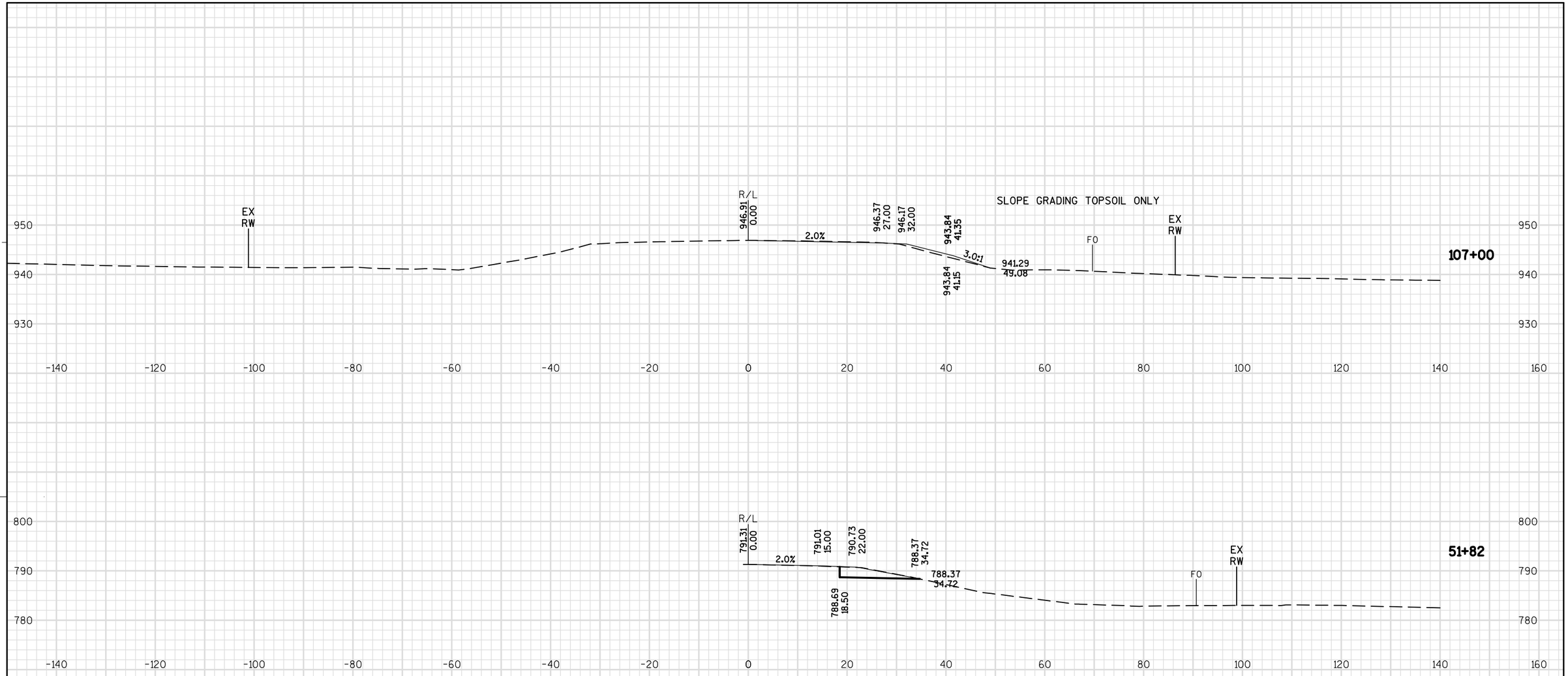


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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:34 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

WISDOT/CADDS SHEET 49



PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 369	E

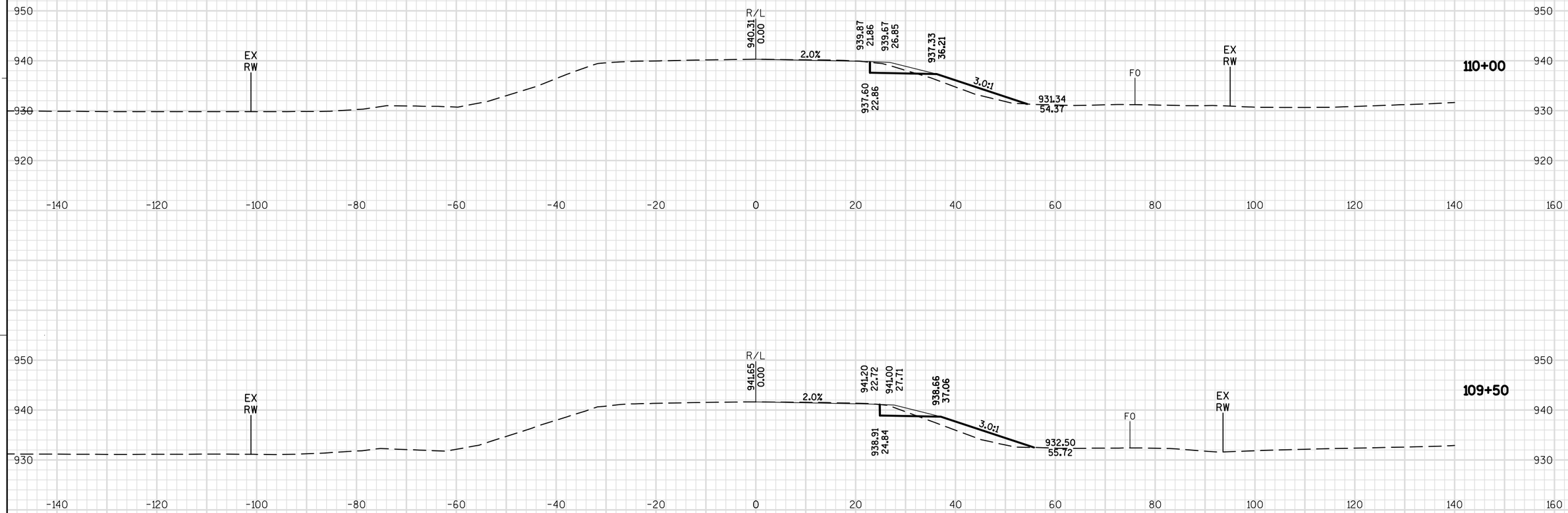
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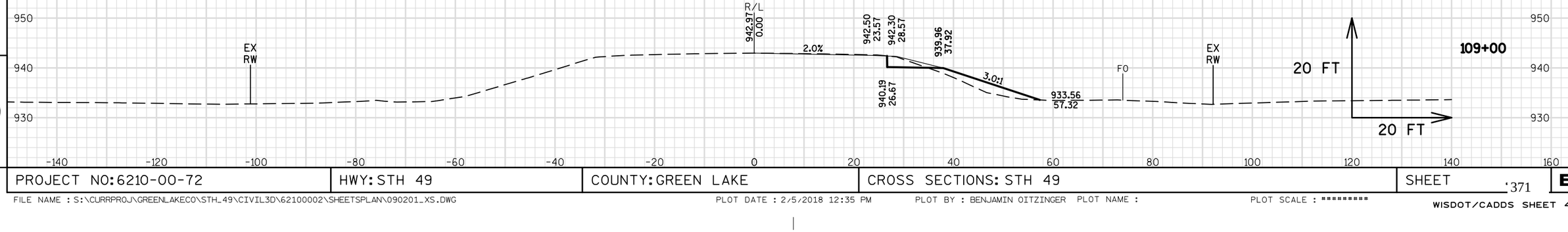
WISDOT/CADDS SHEET 49

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 370 E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:35 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

WISDOT/CADDS SHEET 49





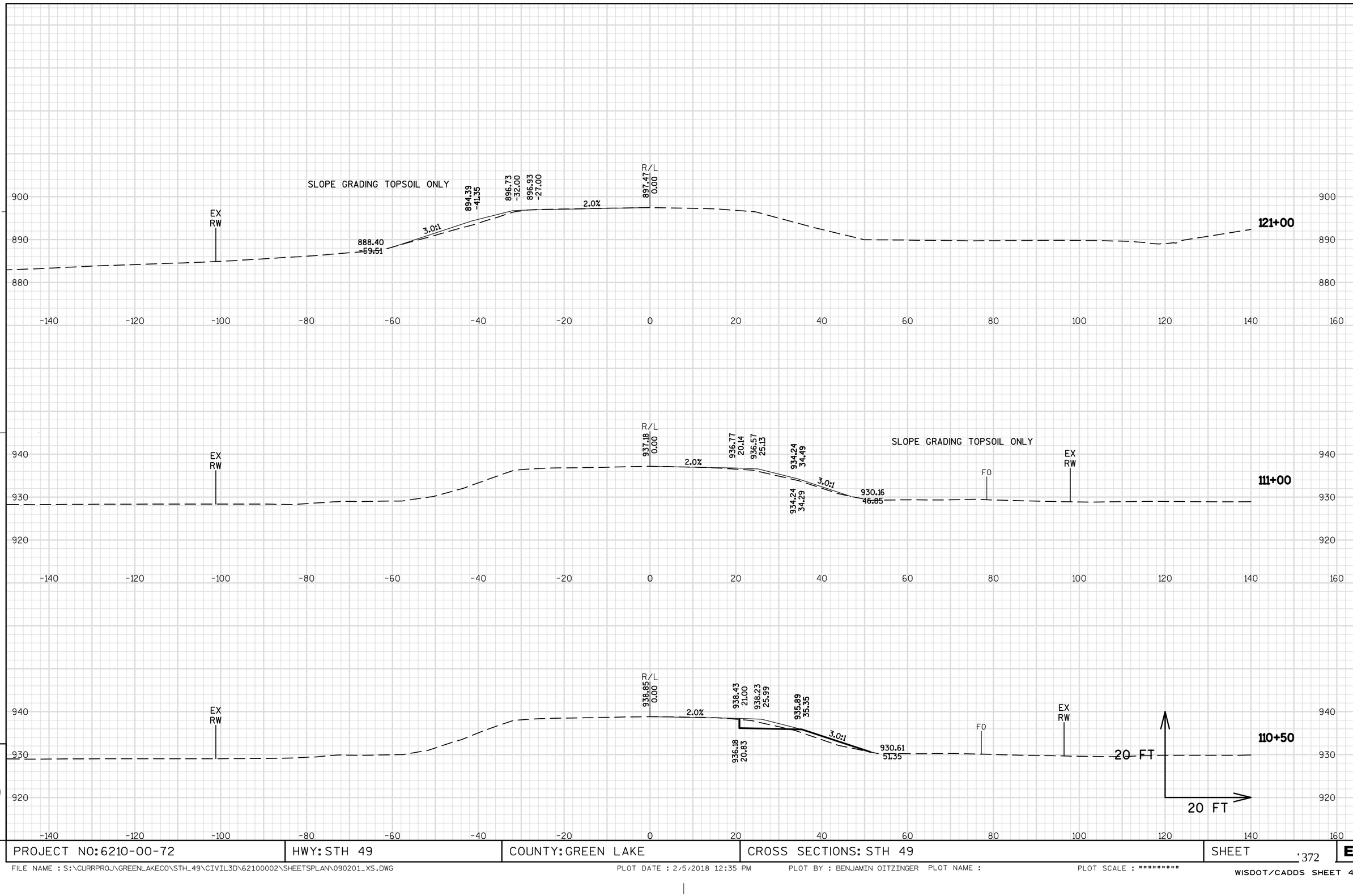
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:35 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

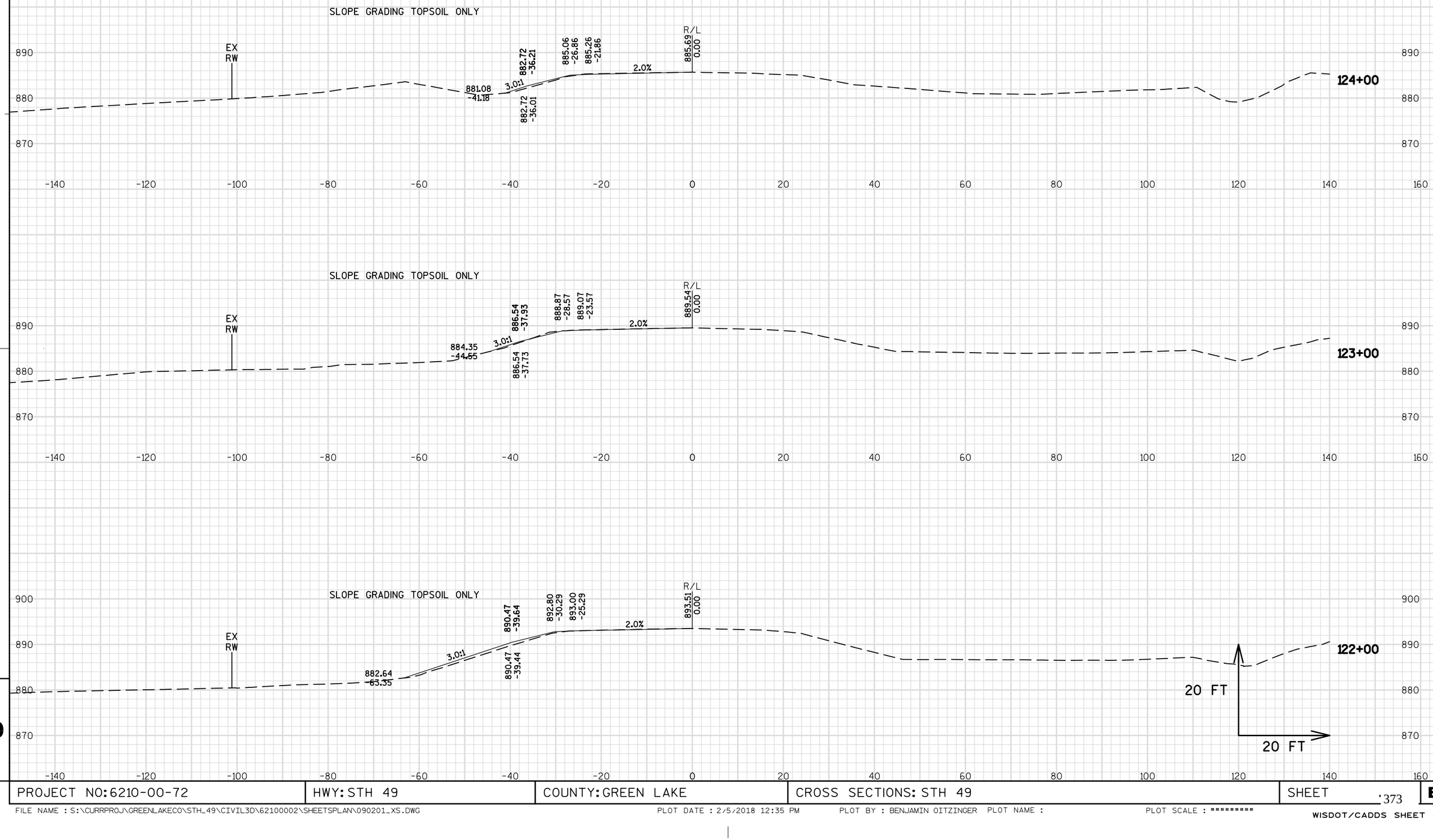
WISDOT/CADDS SHEET 49



PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 372 E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:35 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 49

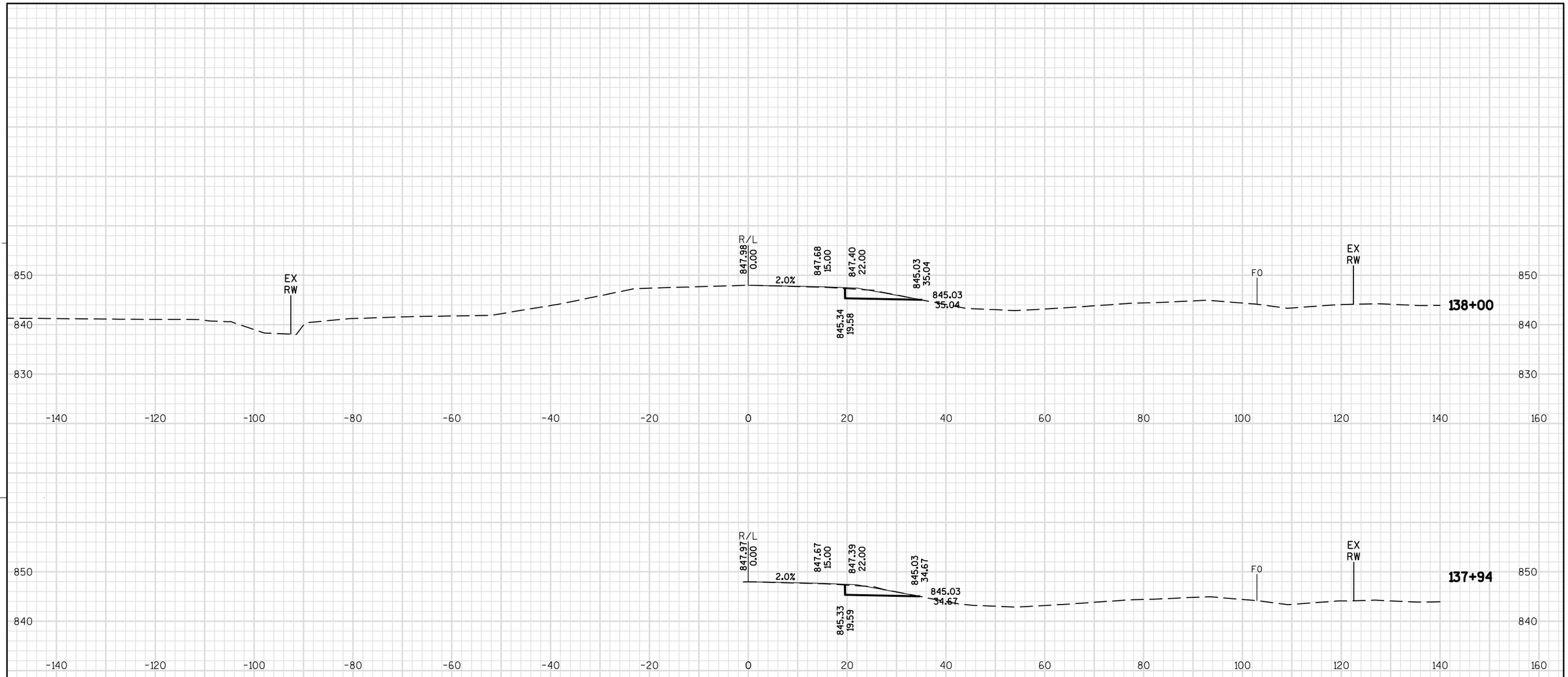


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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 373	E

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FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:35 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : ********* WISDOT/CADDS SHEET 49

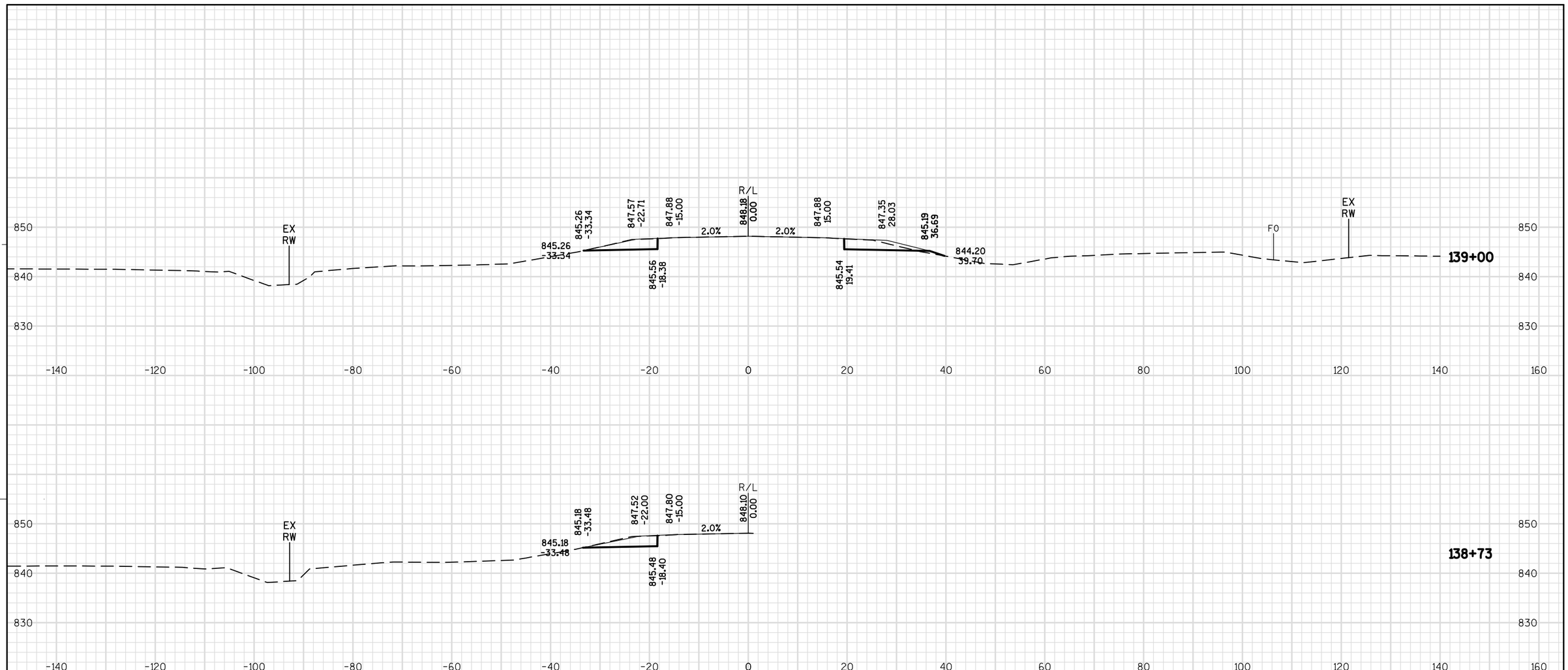


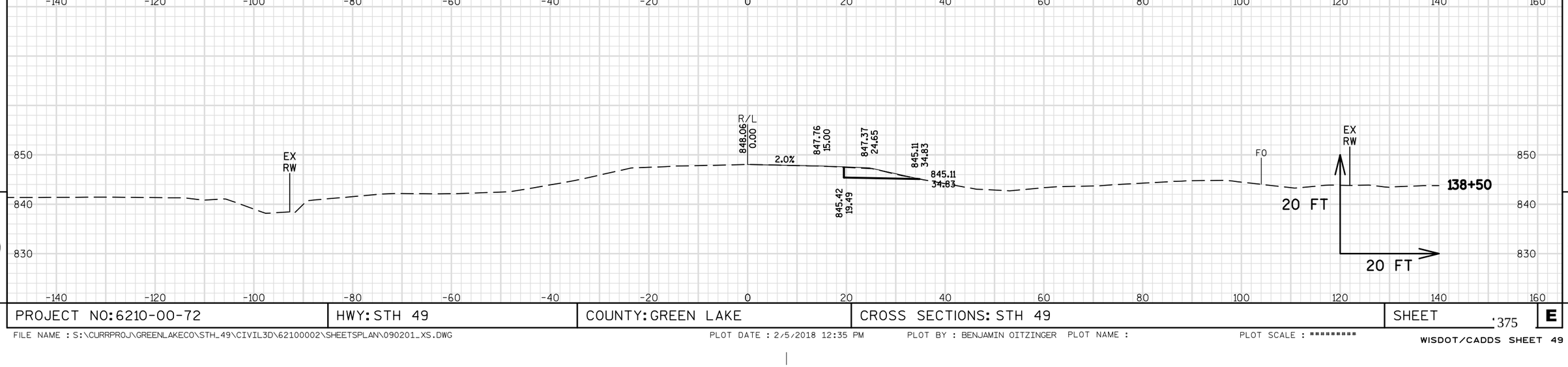
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 374	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:35 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : ********* WISDOT/CADDS SHEET 49





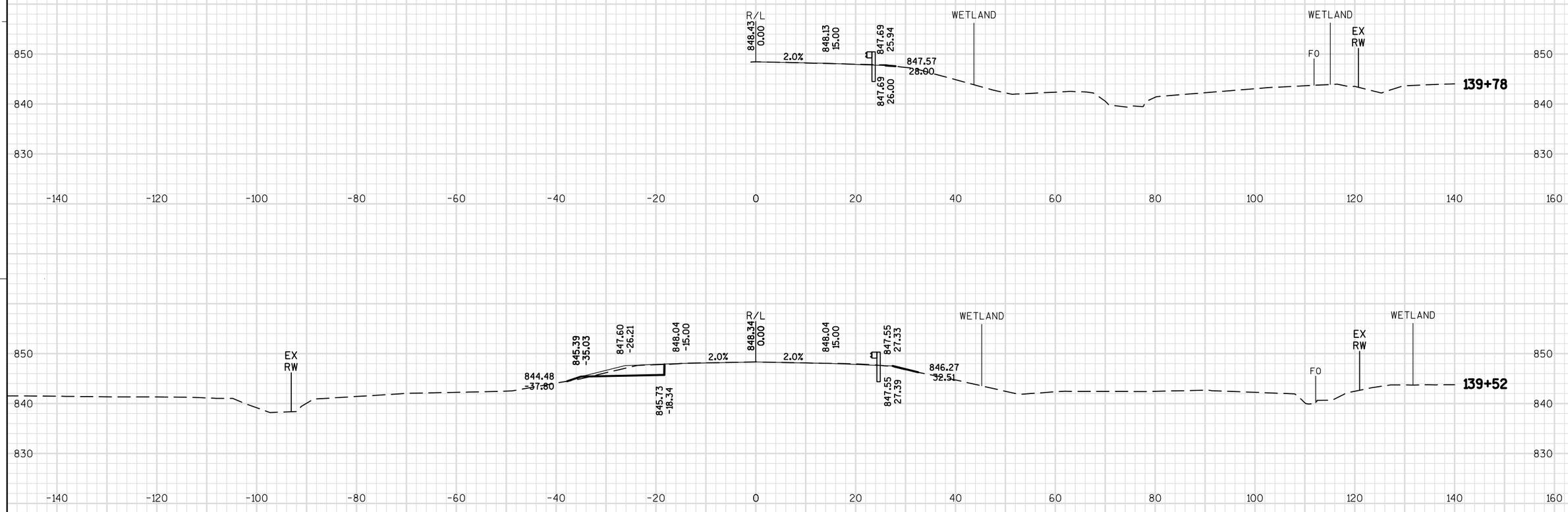
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 375	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:35 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

WISDOT/CADDS SHEET 49

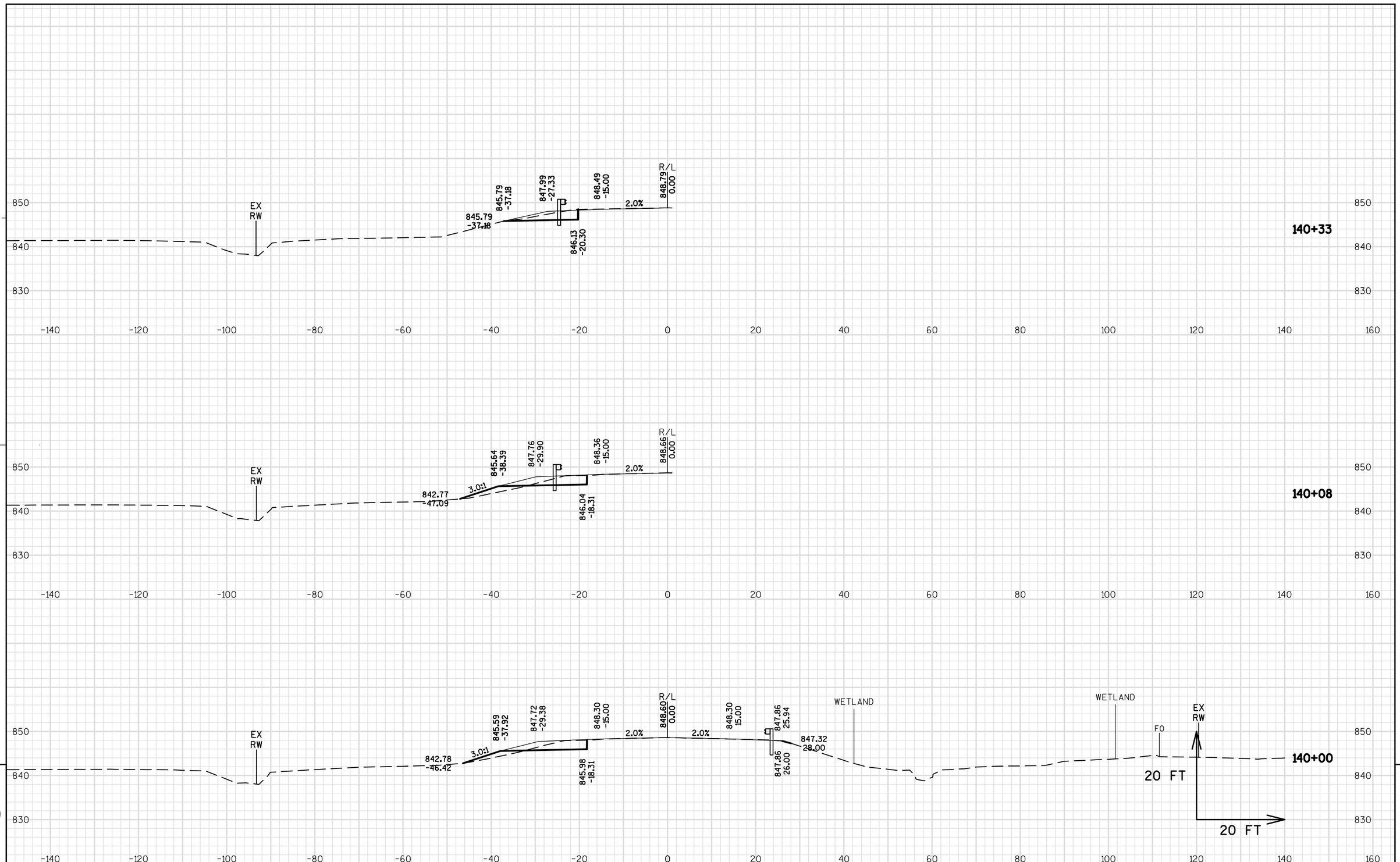


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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 376	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:35 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : **********

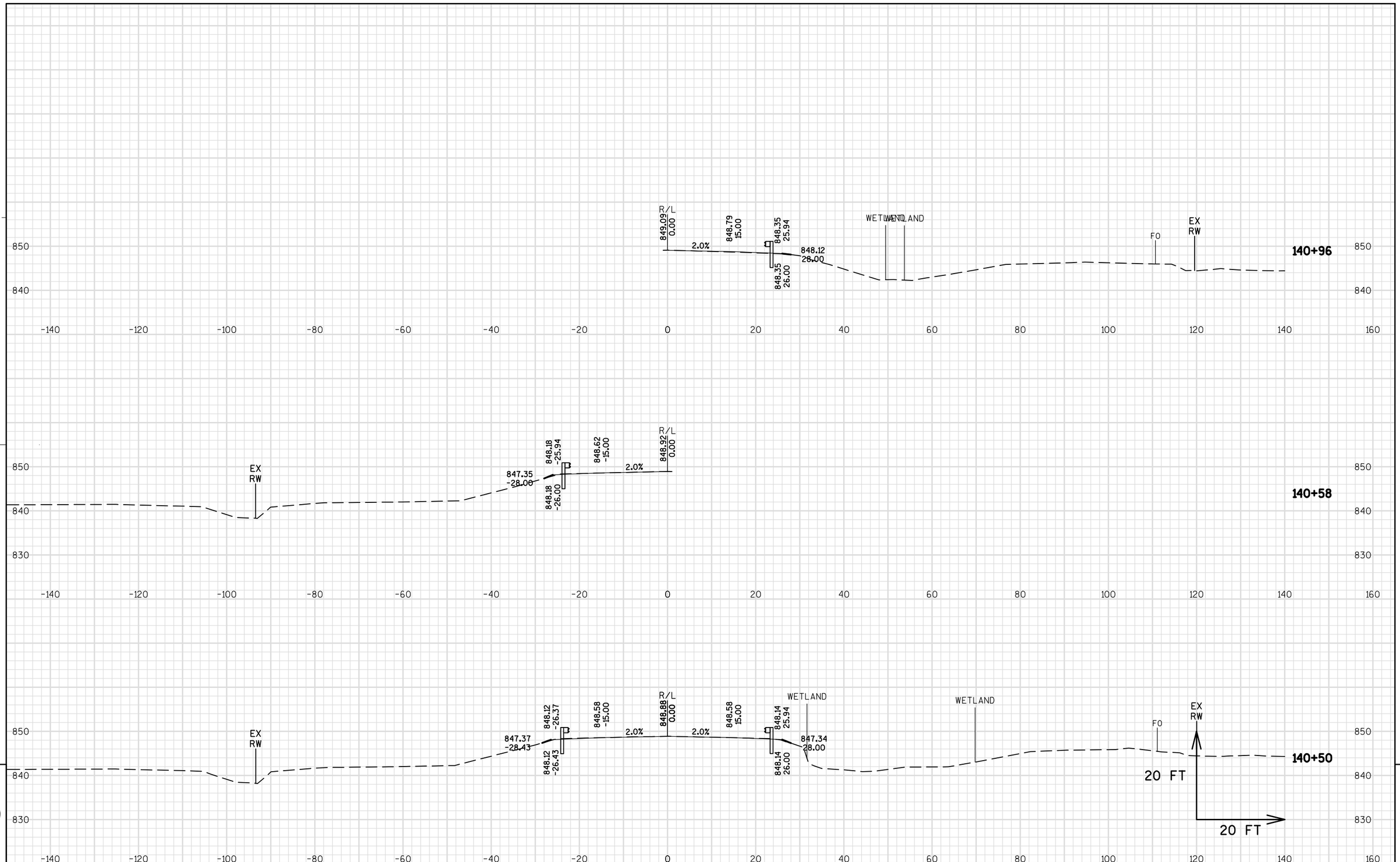
WISDOT/CADDS SHEET 49



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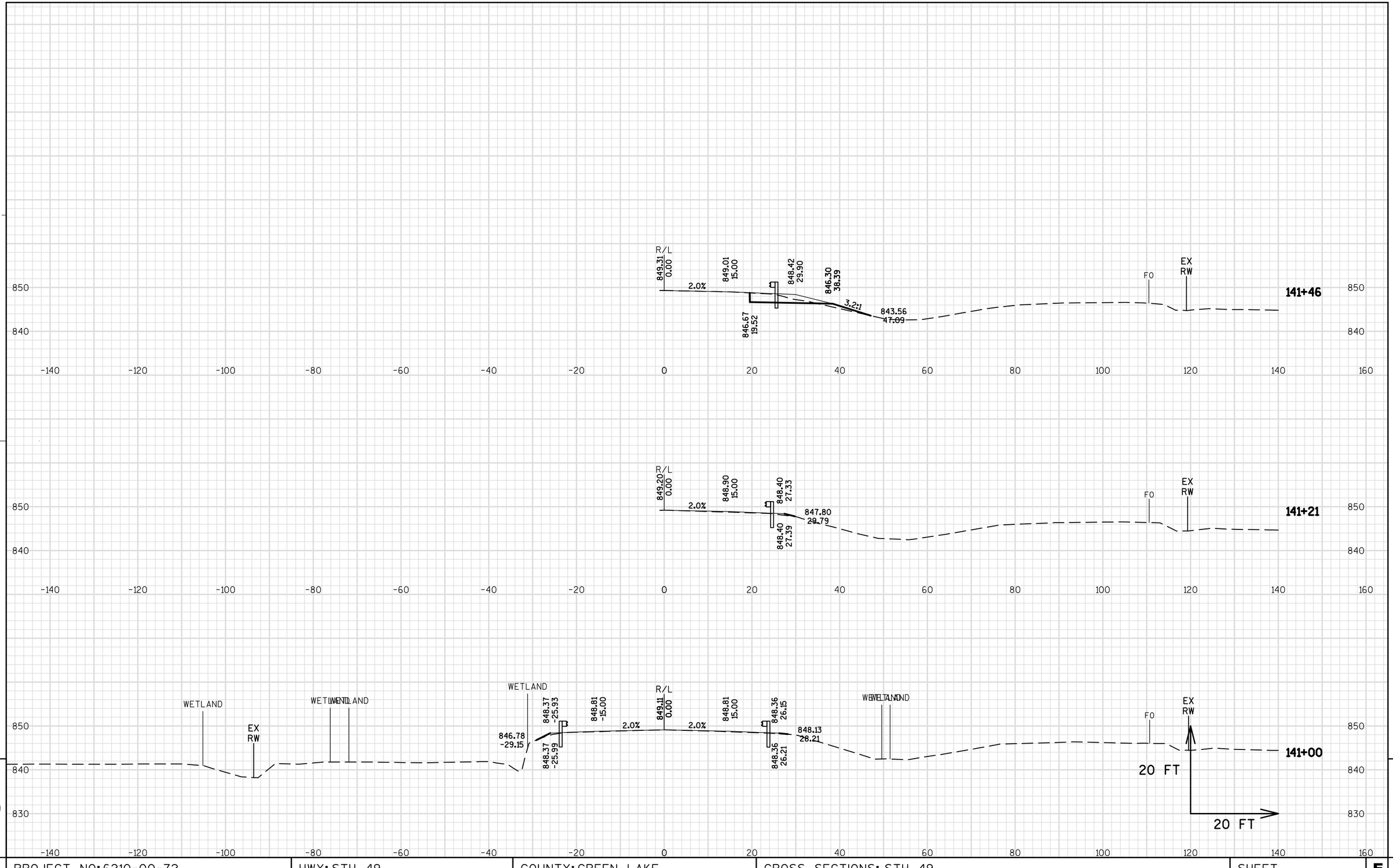
PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 377	E



PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 378 E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:36 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : **********

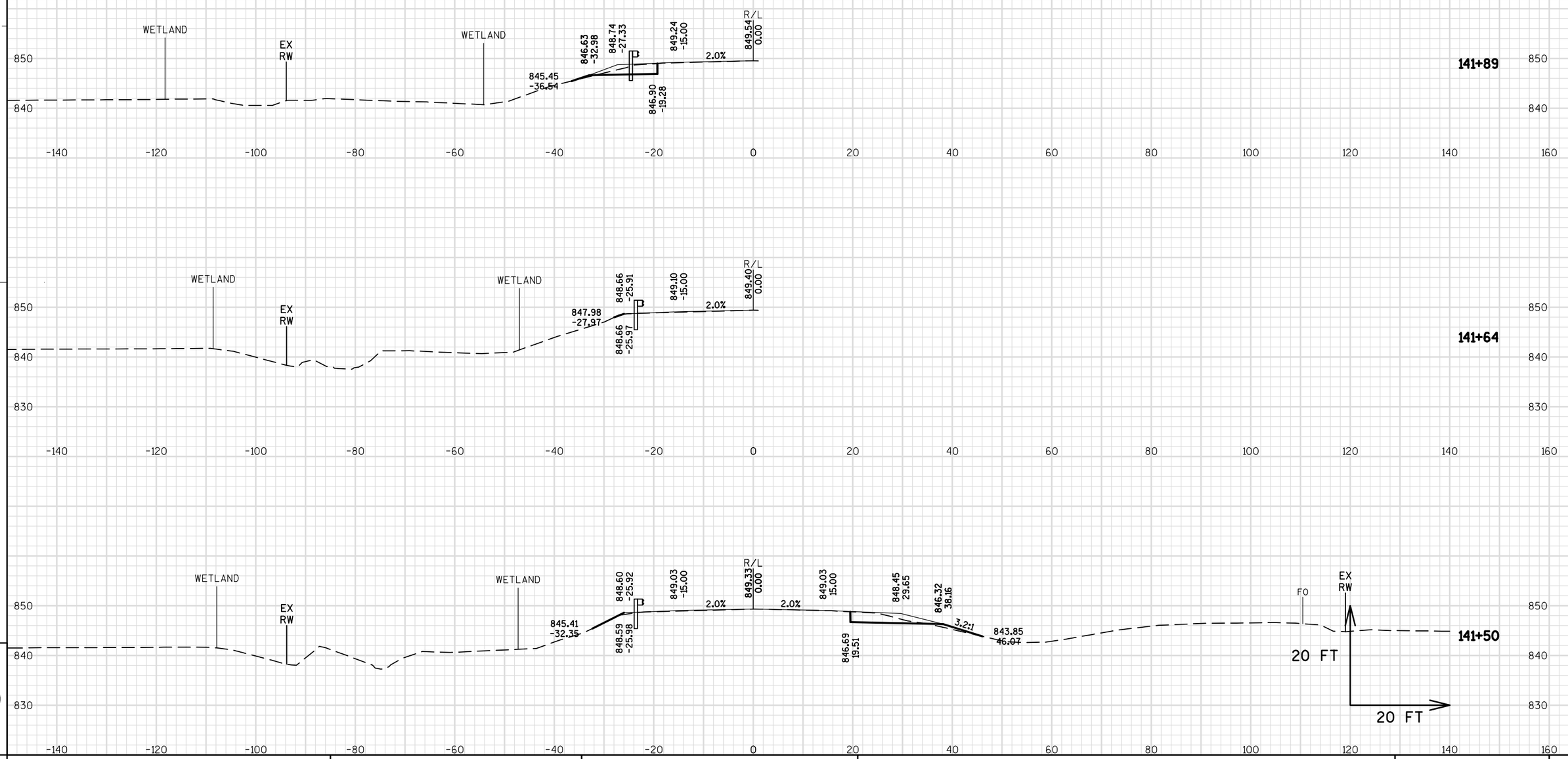
WISDOT/CADDS SHEET 49



PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 379	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:36 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 49



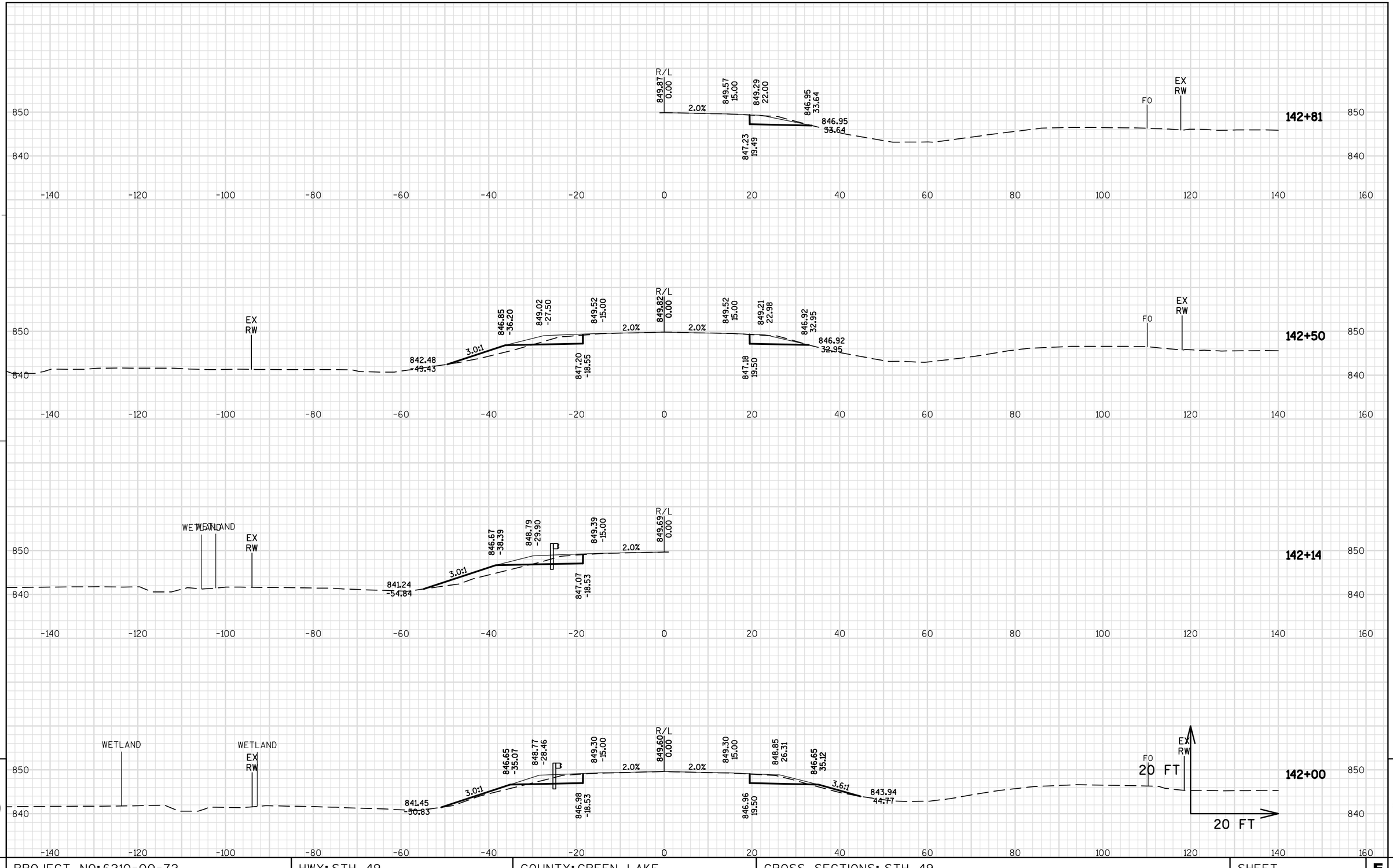
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 380	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:36 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 49

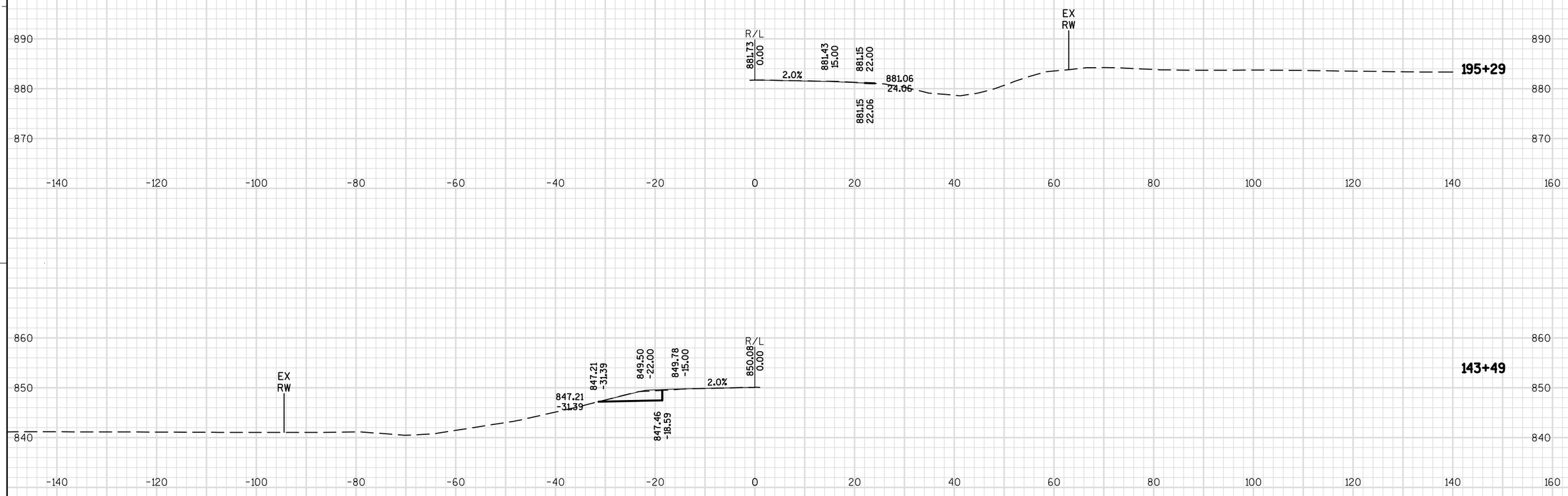


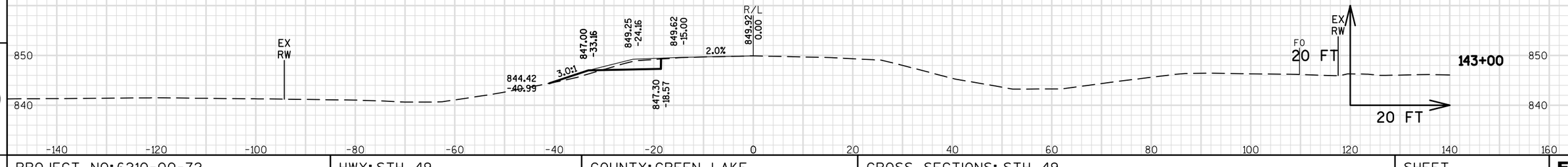
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:36 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 49





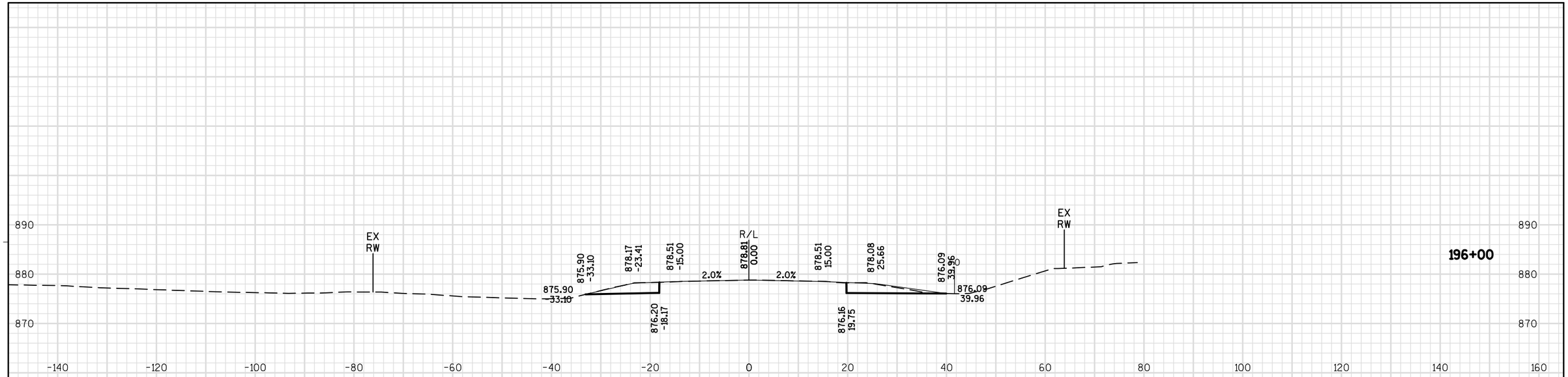
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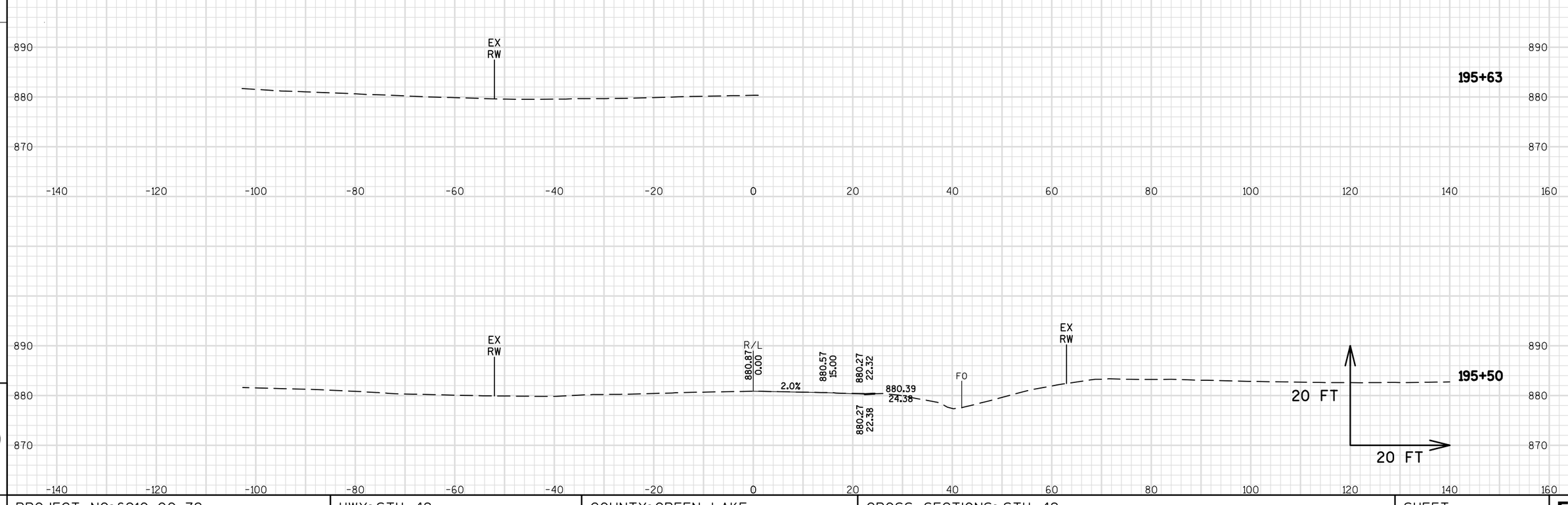
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:36 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 49





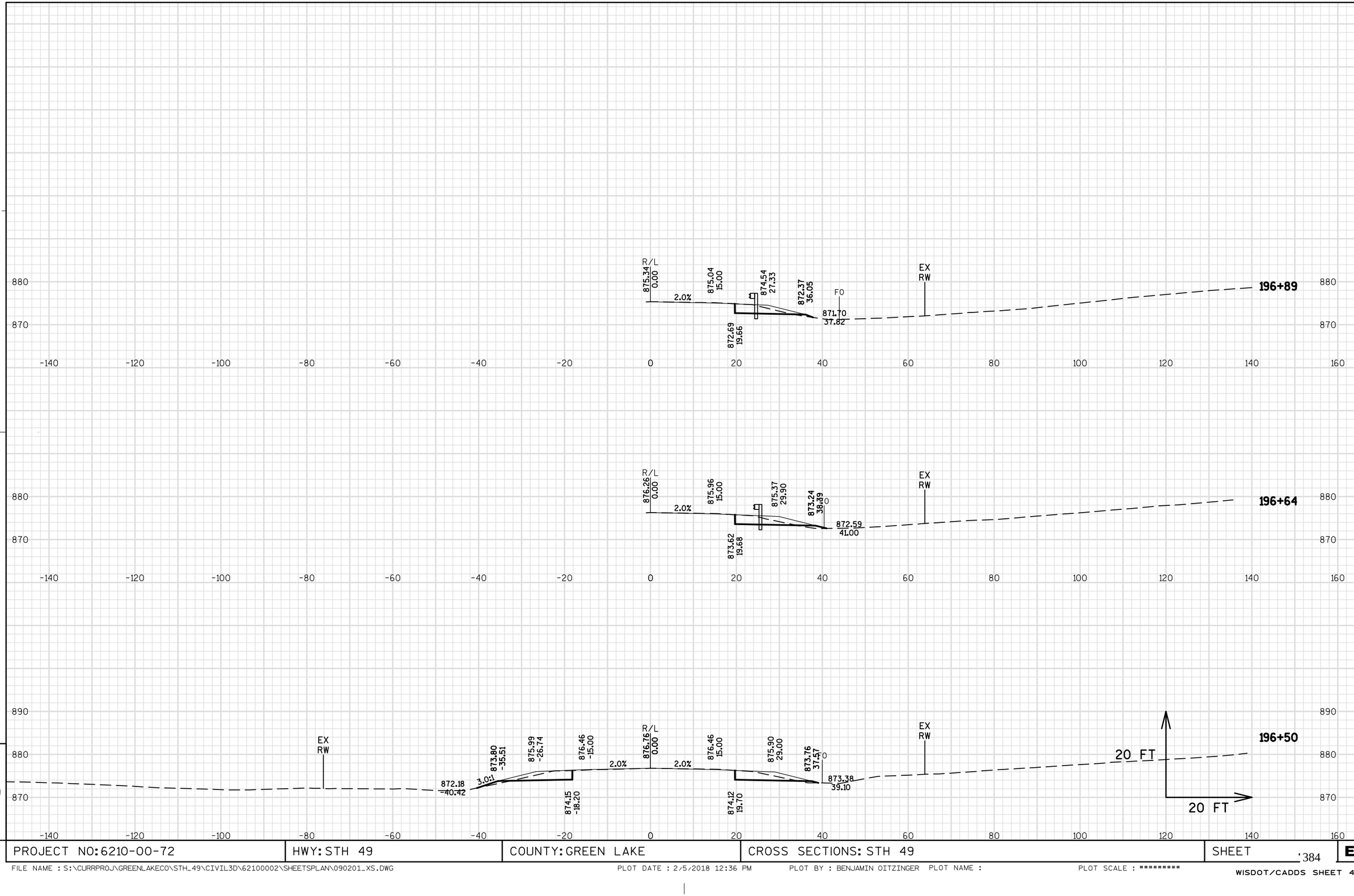
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 383	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:36 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

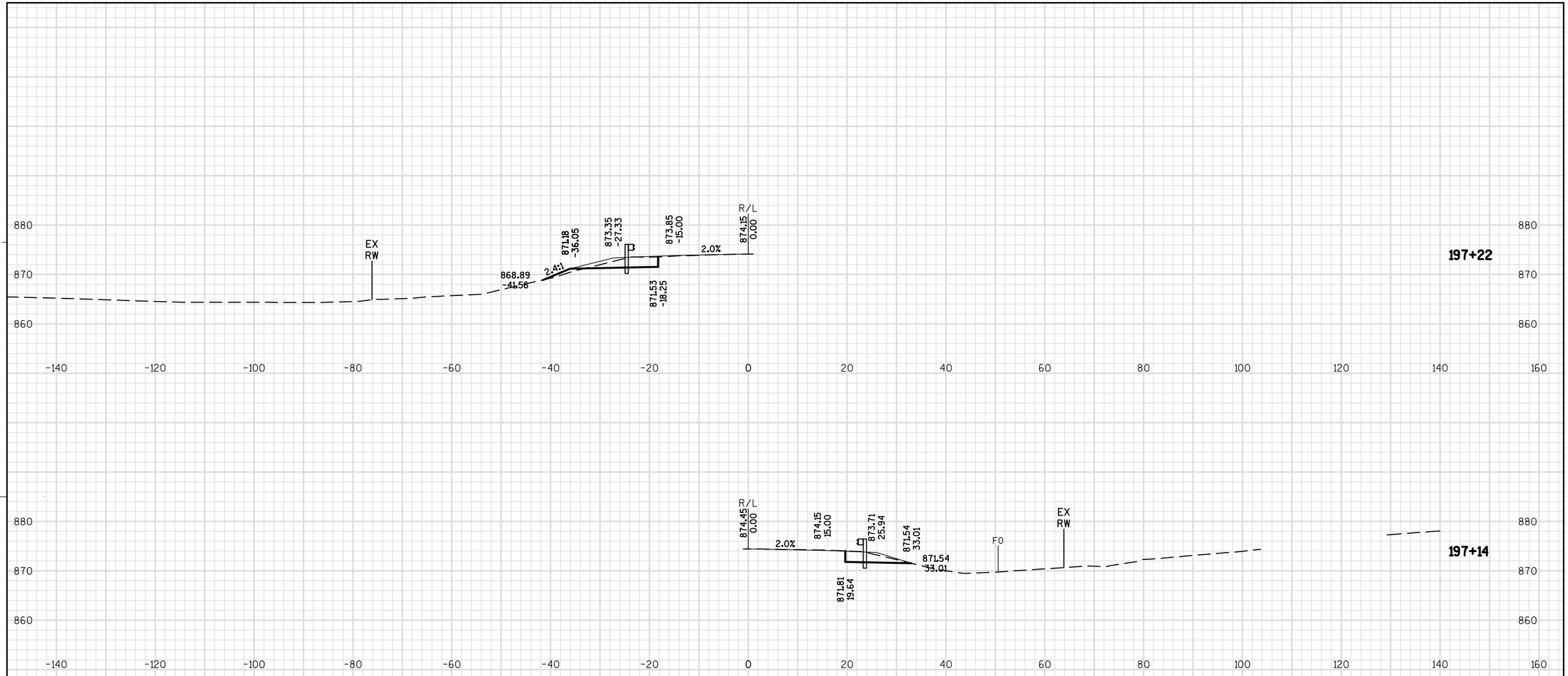
WISDOT/CADDS SHEET 49



PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 384	E

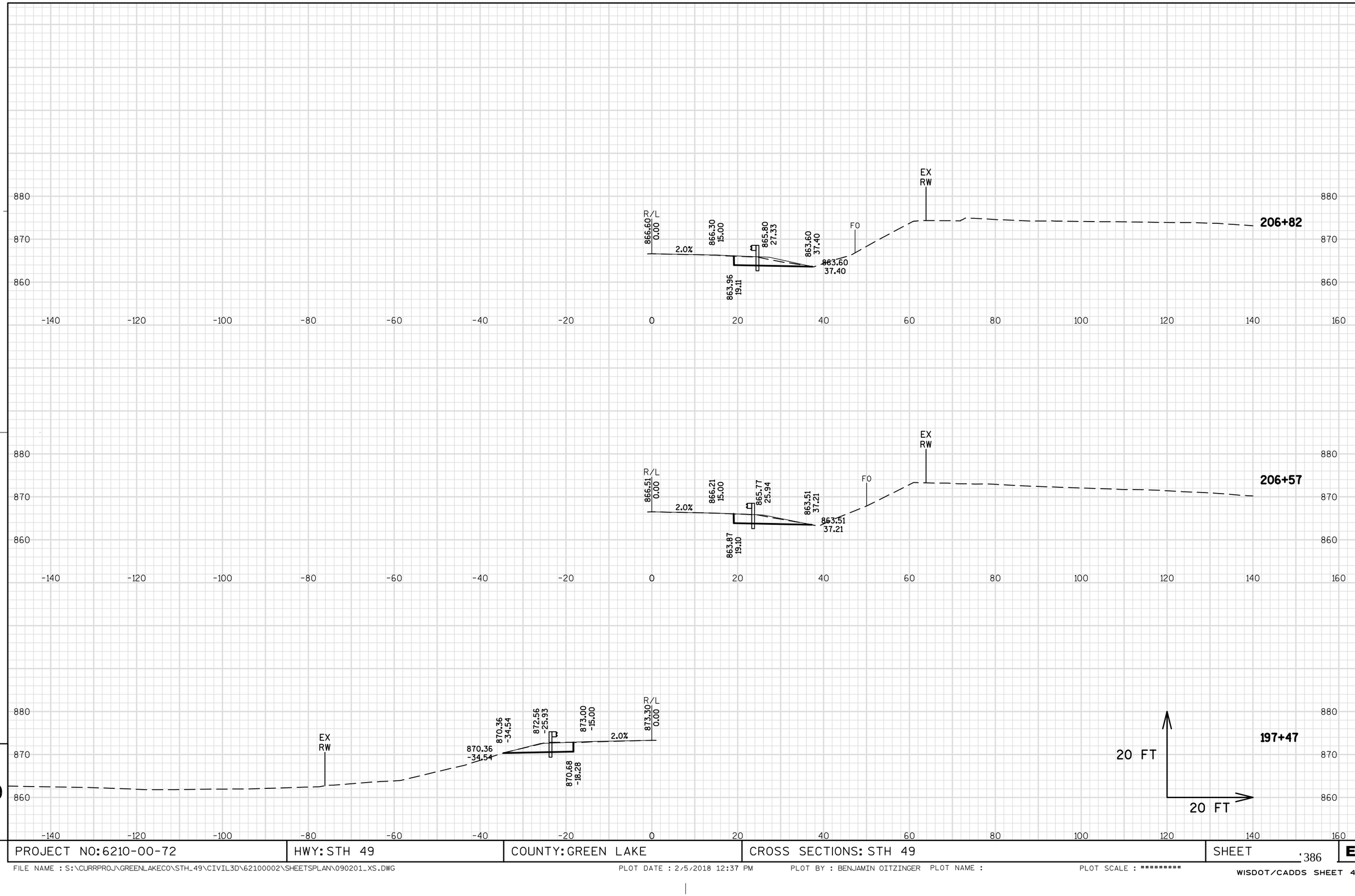
FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:36 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 49



PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 385 E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:37 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : ********* WISDOT/CADDS SHEET 49

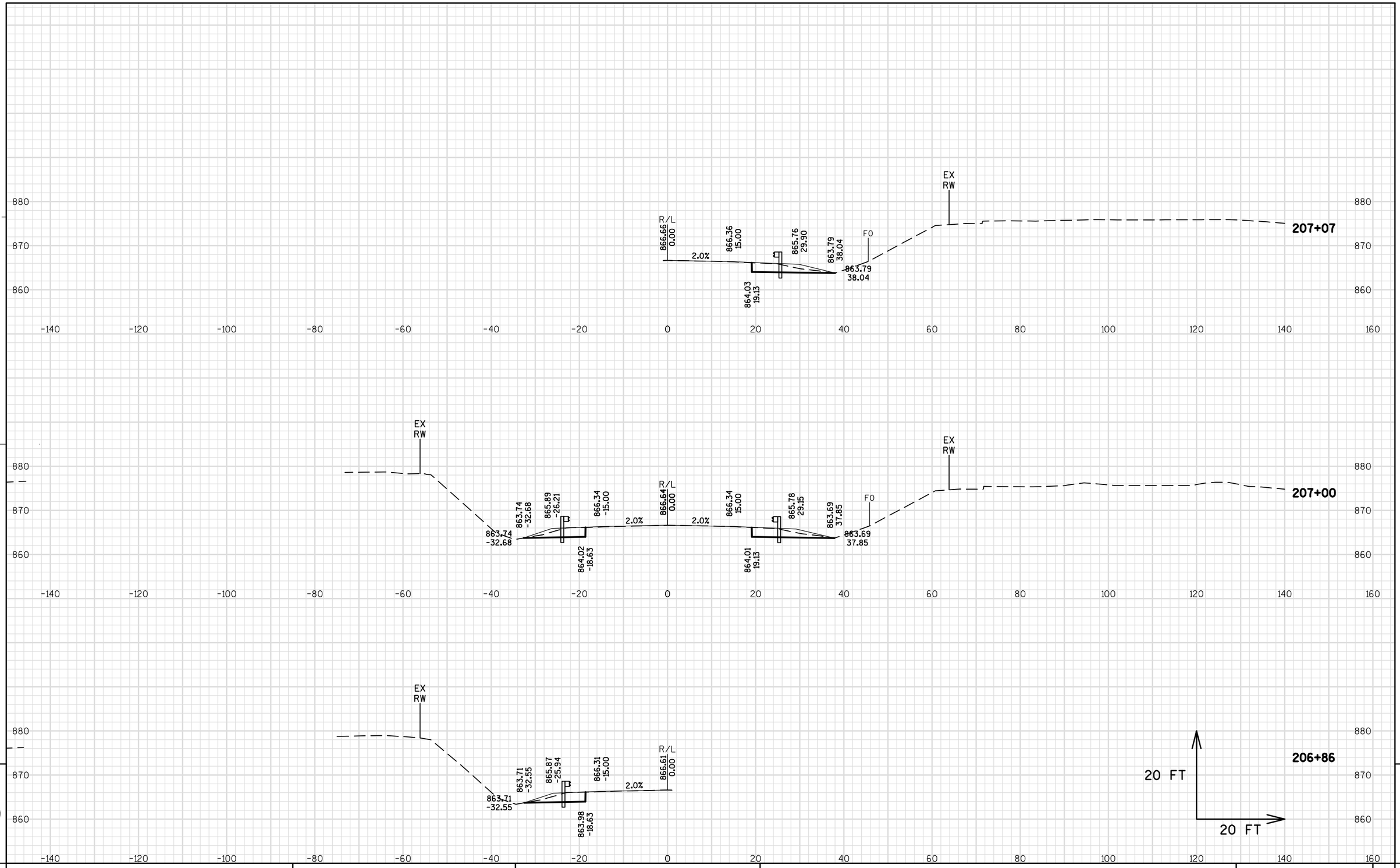


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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 386	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:37 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : **********

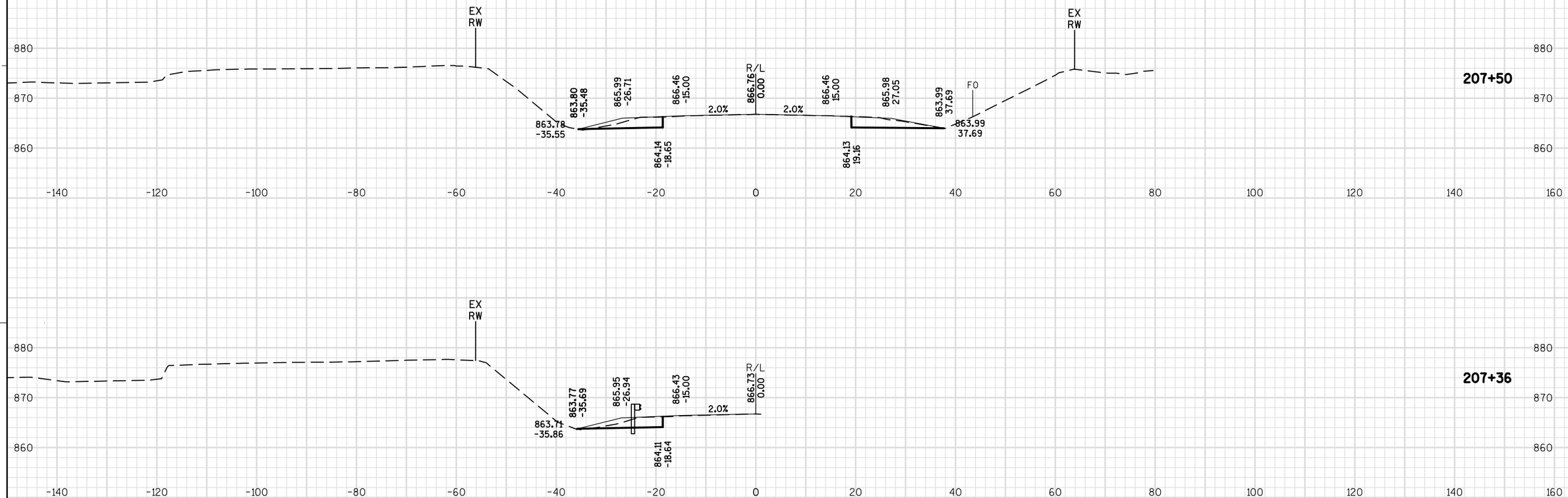
WISDOT/CADDS SHEET 49



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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 387	E



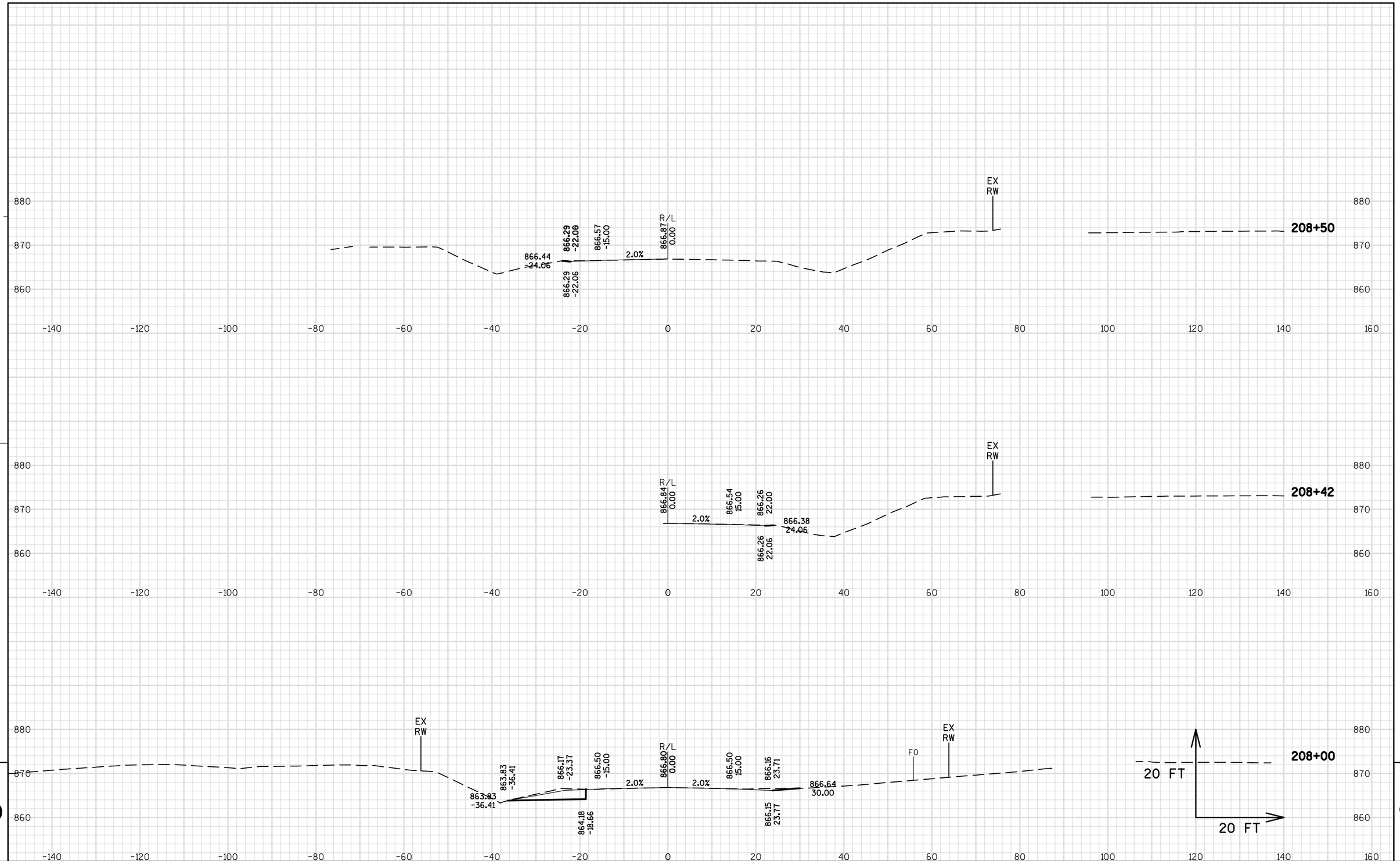
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9

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 388	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:37 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 49



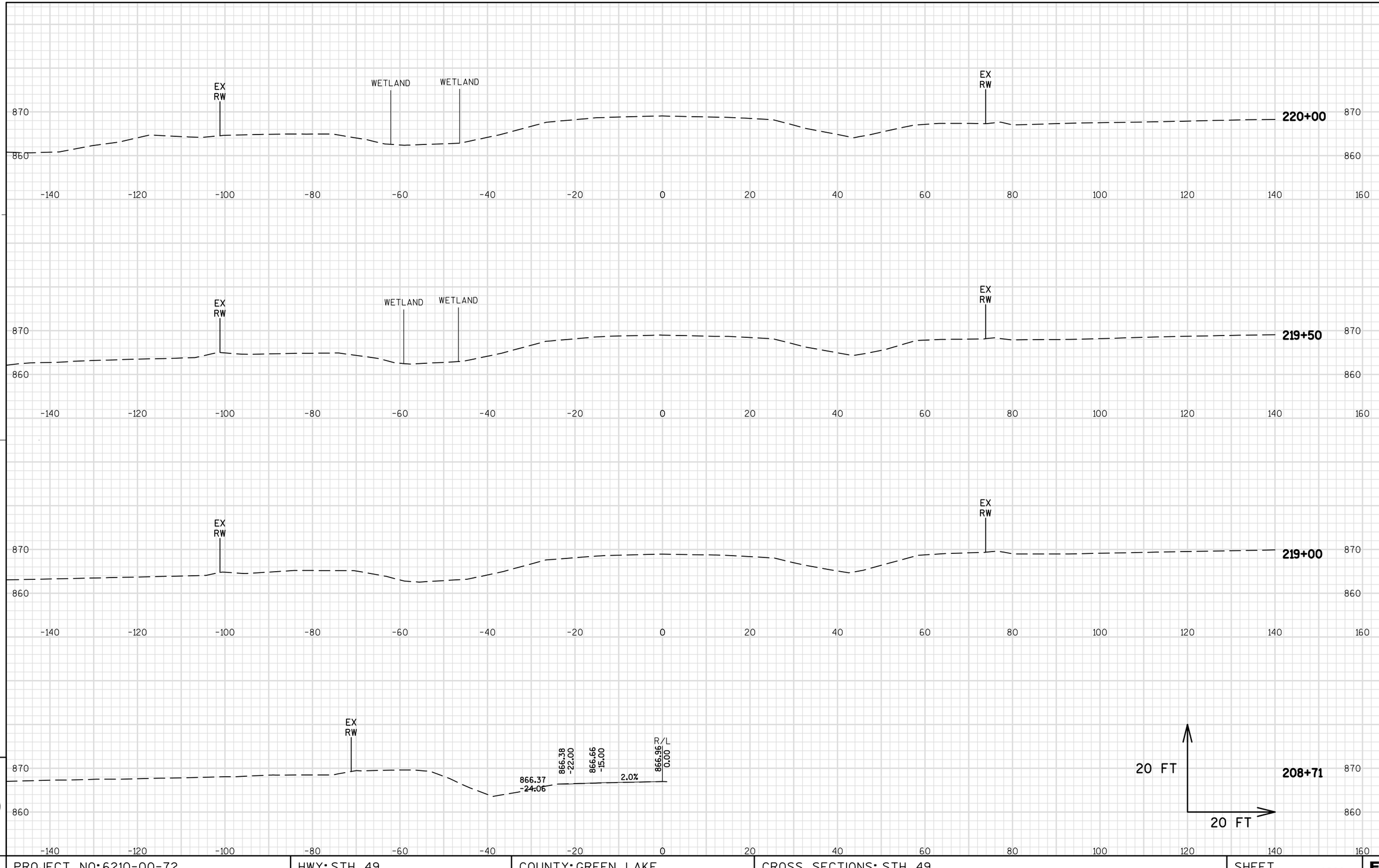
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 389	E

9

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:37 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 49

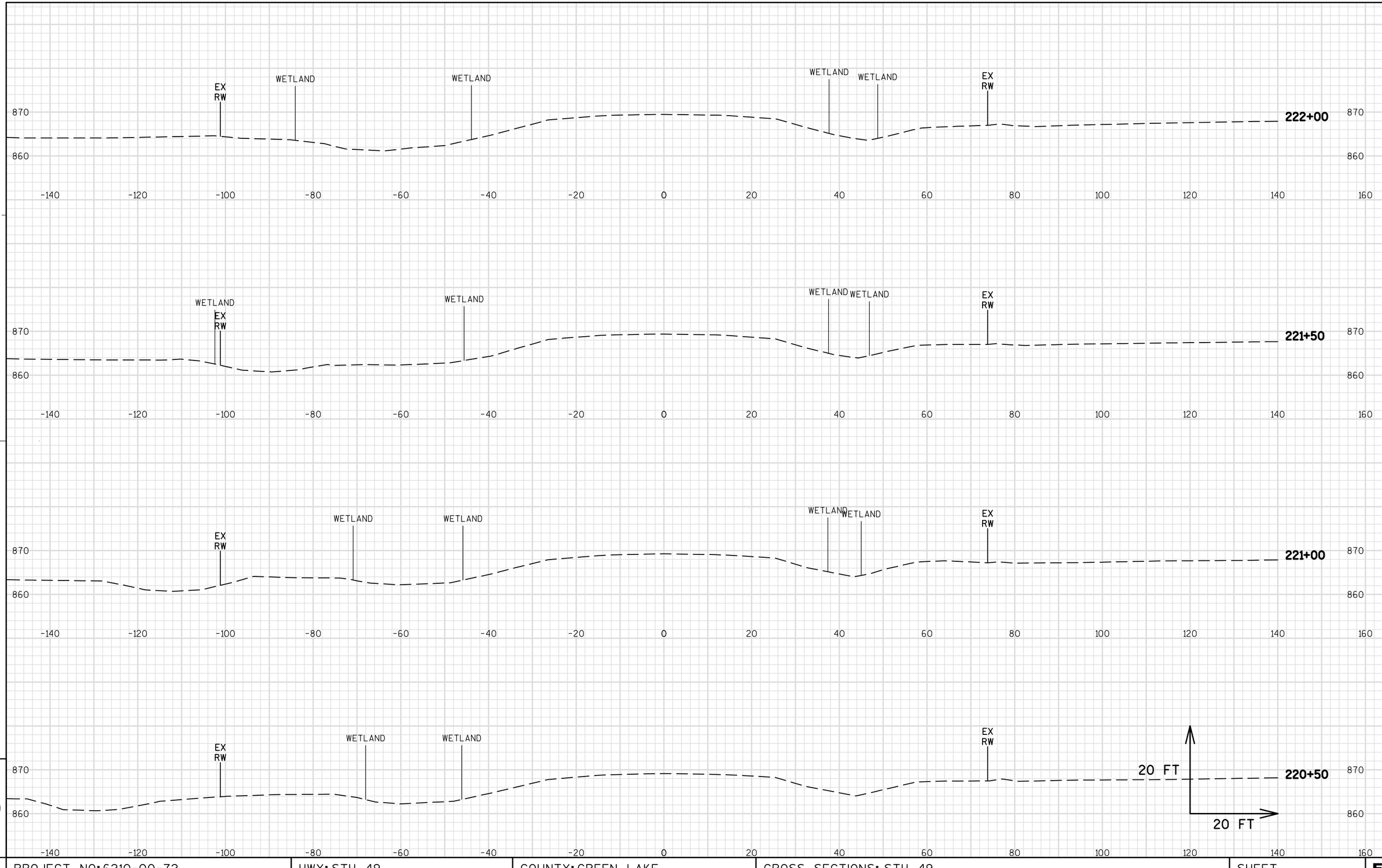


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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 390	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:37 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

WISDOT/CADDS SHEET 49



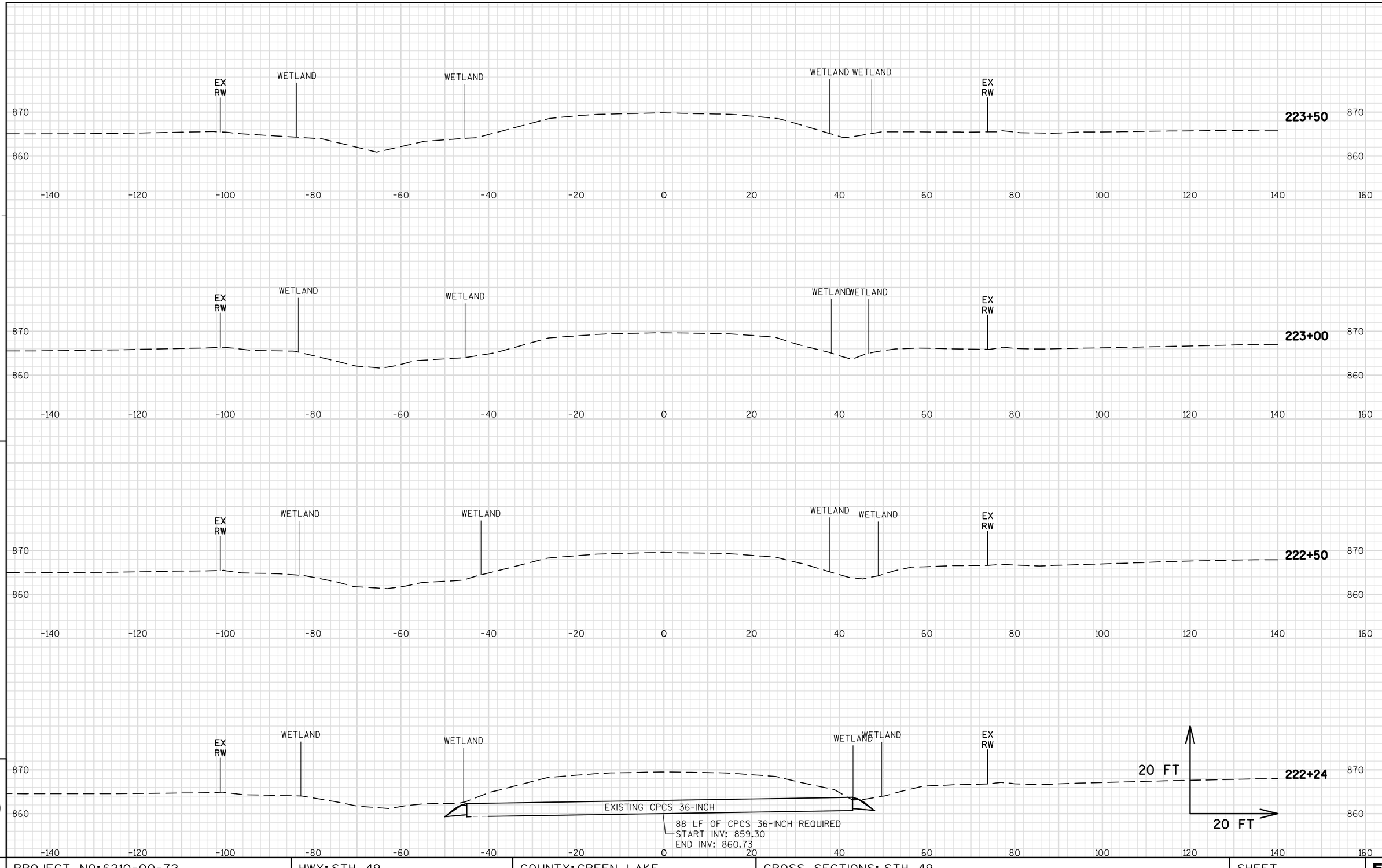
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:37 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

WISDOT/CADDS SHEET 49



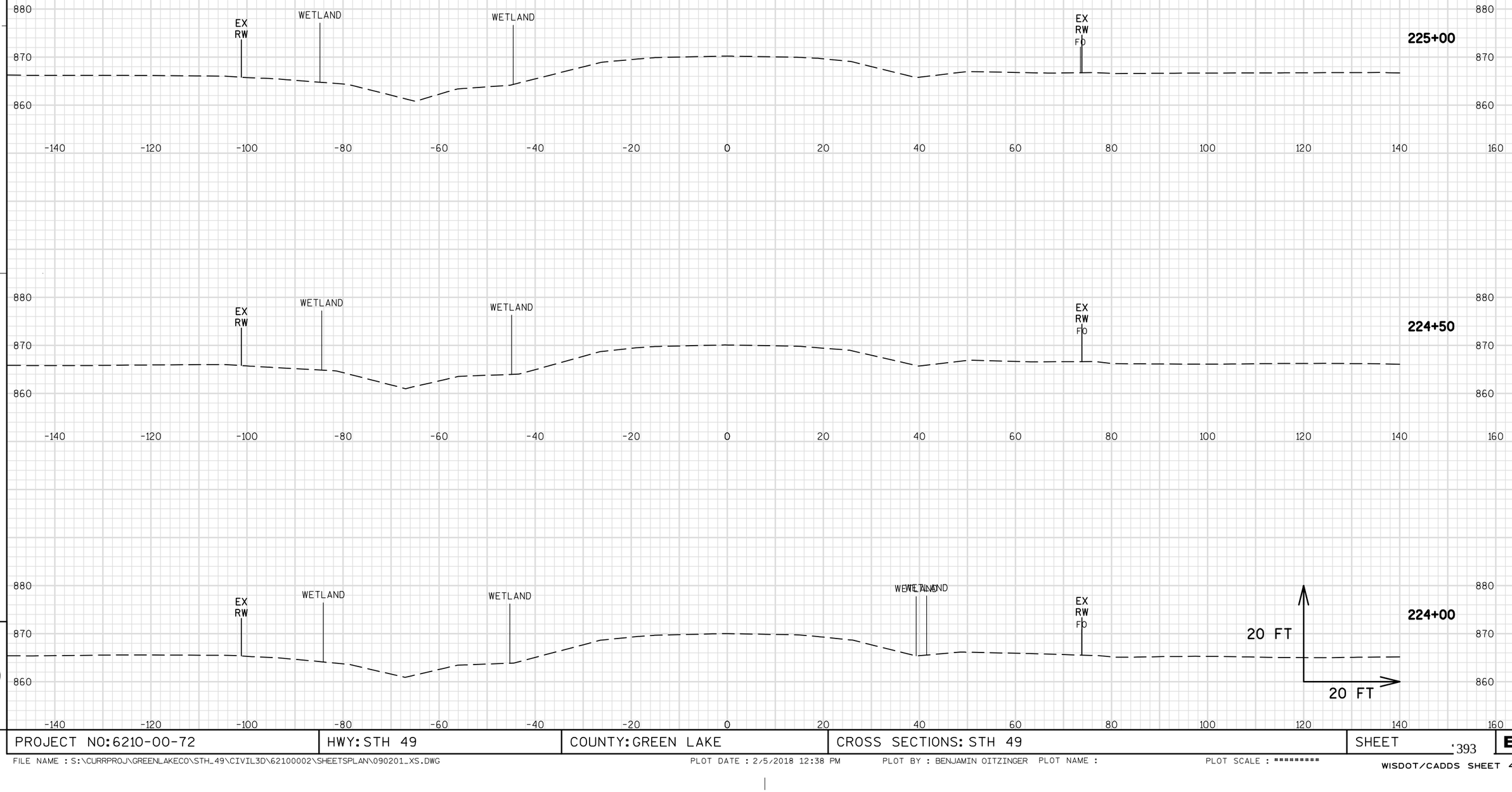
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:37 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

WISDOT/CADDS SHEET 49



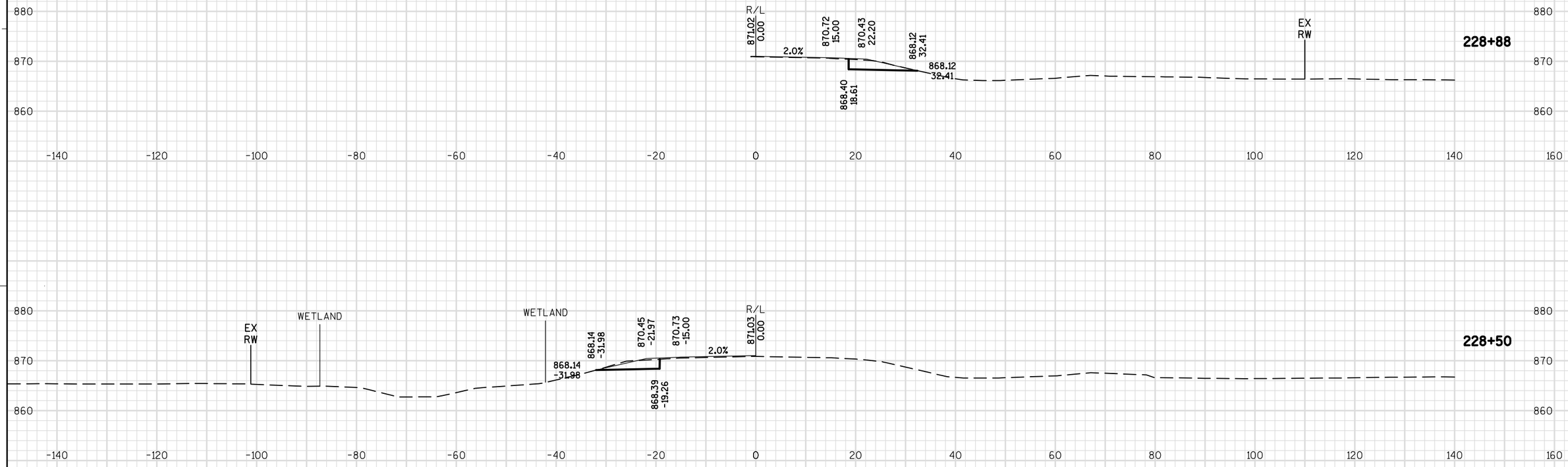
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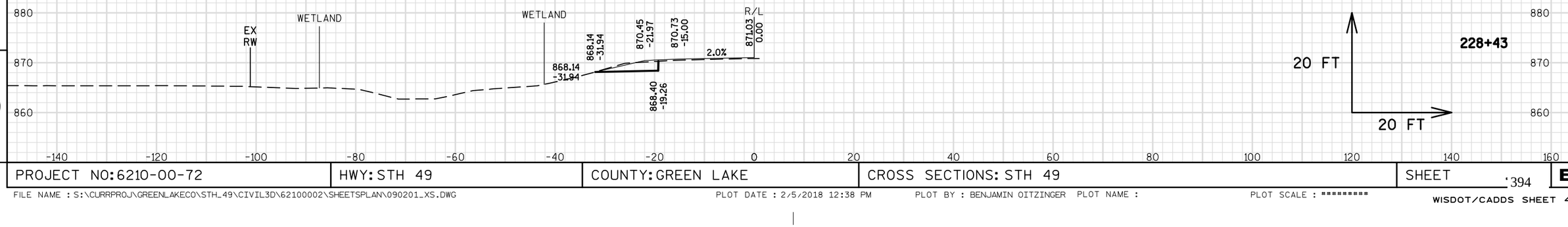
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:38 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

WISDOT/CADDS SHEET 49



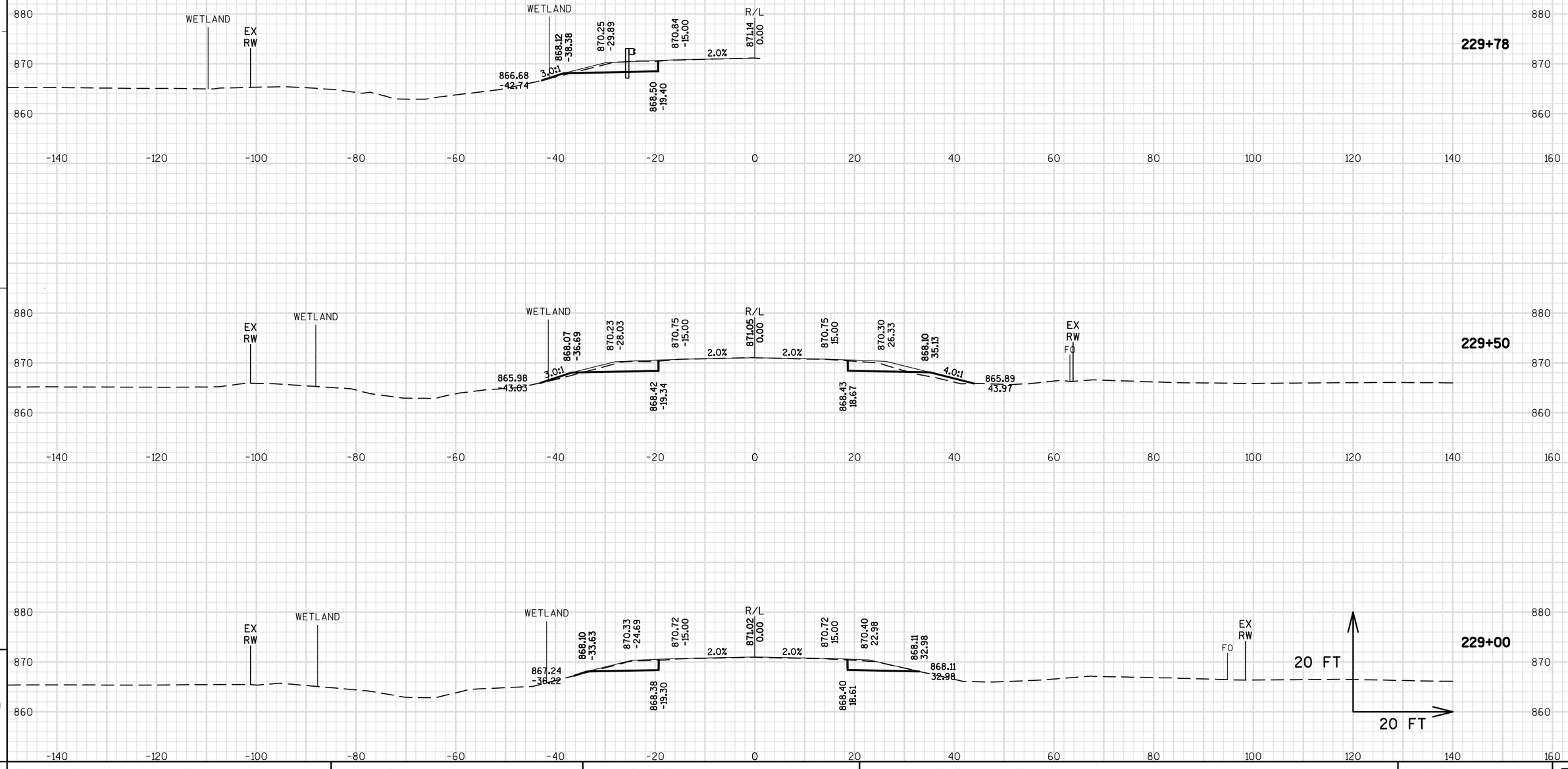


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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:38 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : ********* WISDOT/CADDS SHEET 49

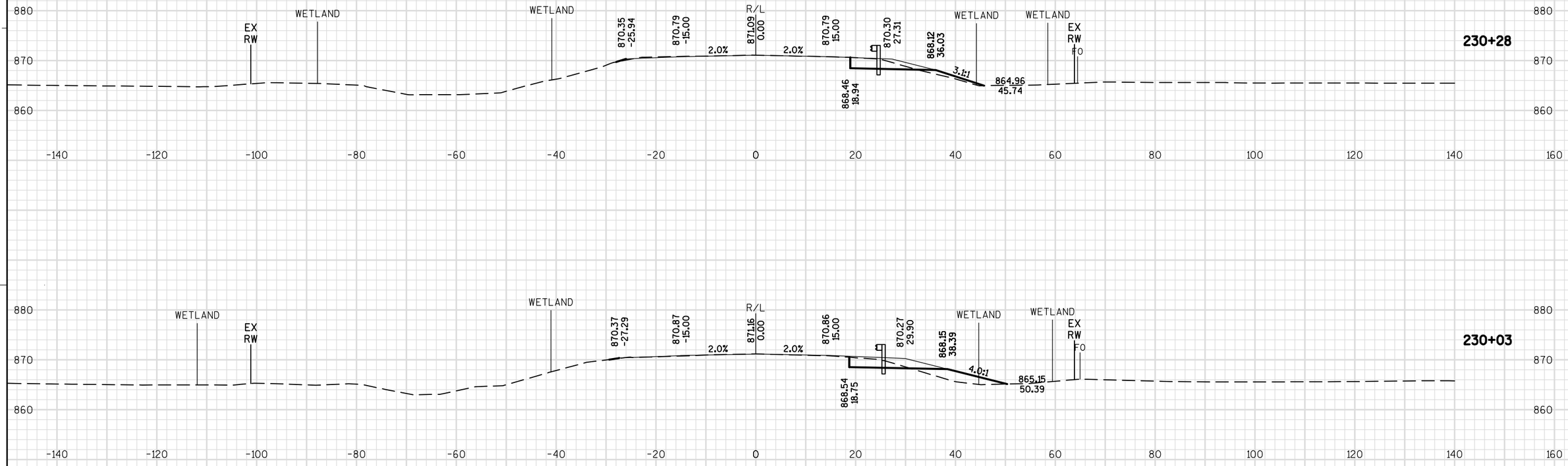


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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 395	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:38 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : ********* WISDOT/CADDS SHEET 49



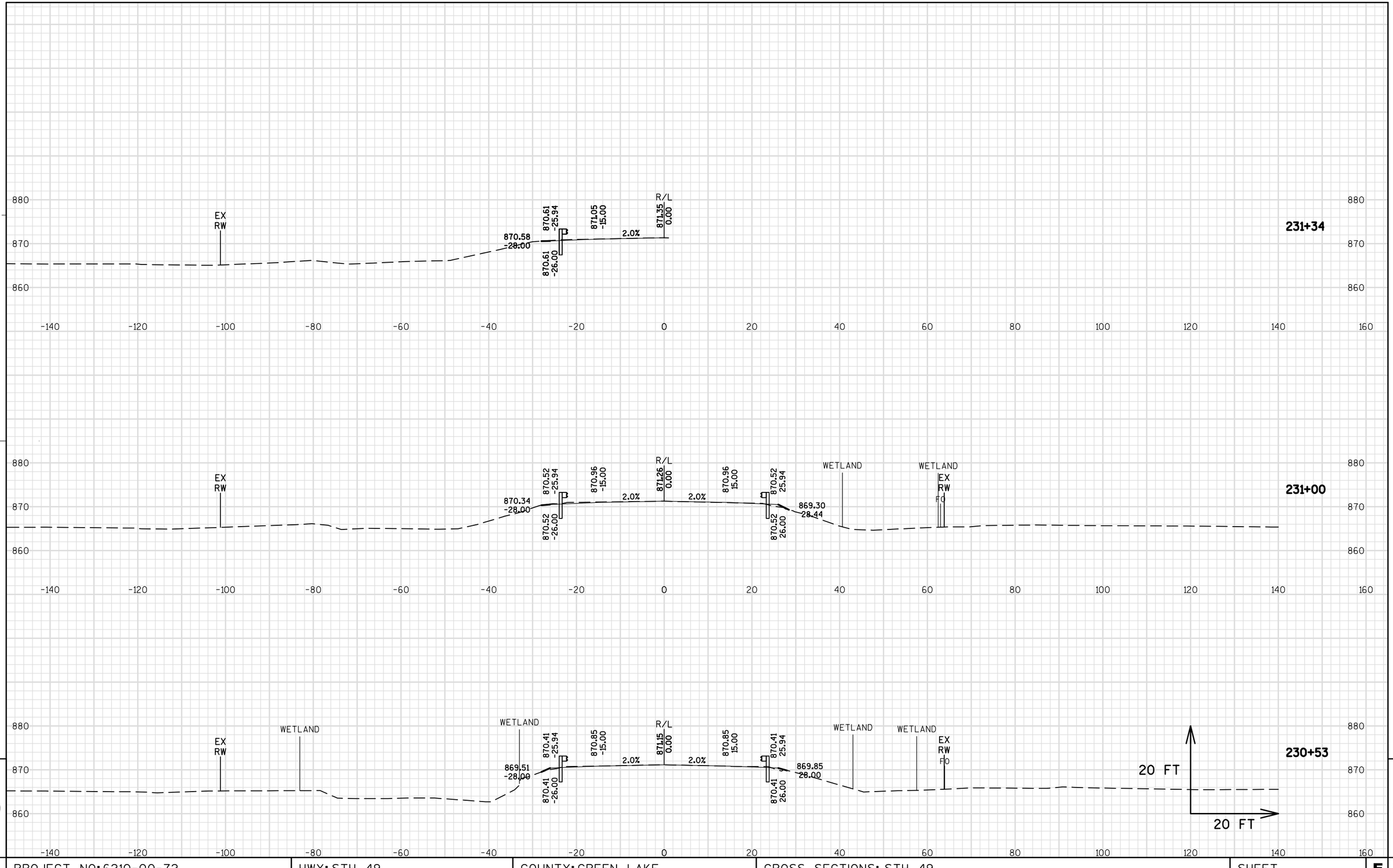
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:38 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

WISDOT/CADDS SHEET 49

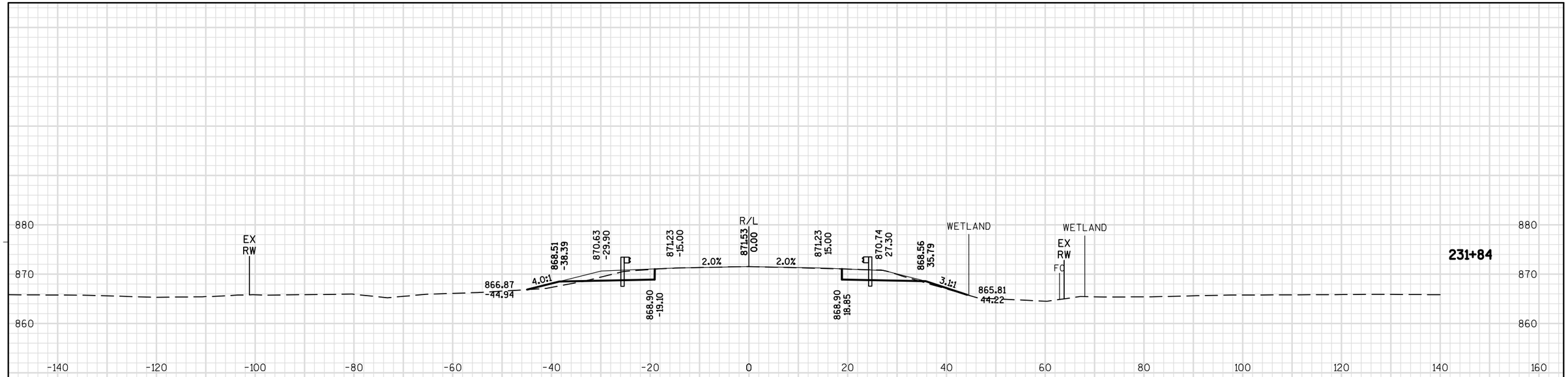


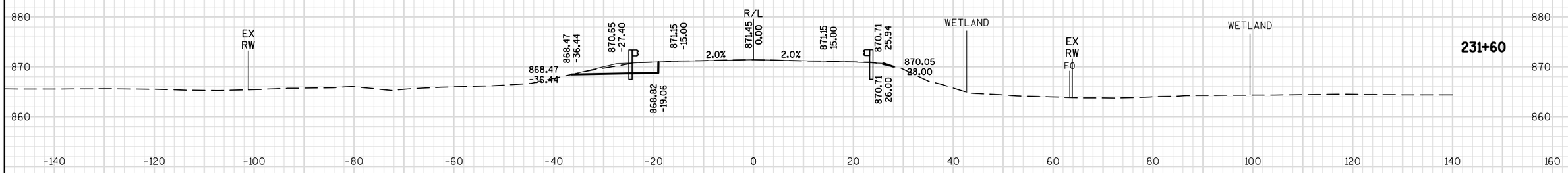
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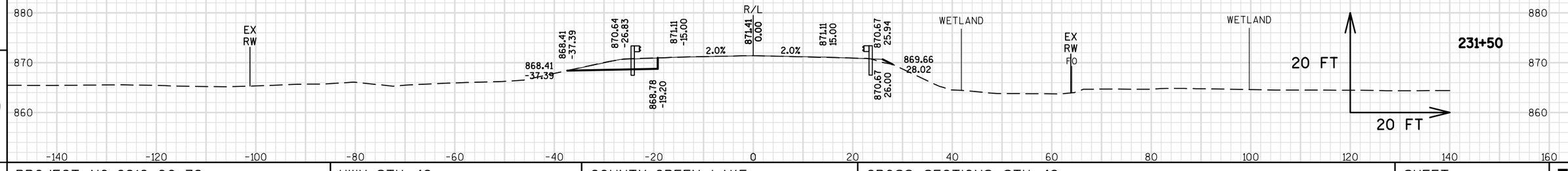
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:38 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : ********* WISDOT/CADDS SHEET 49





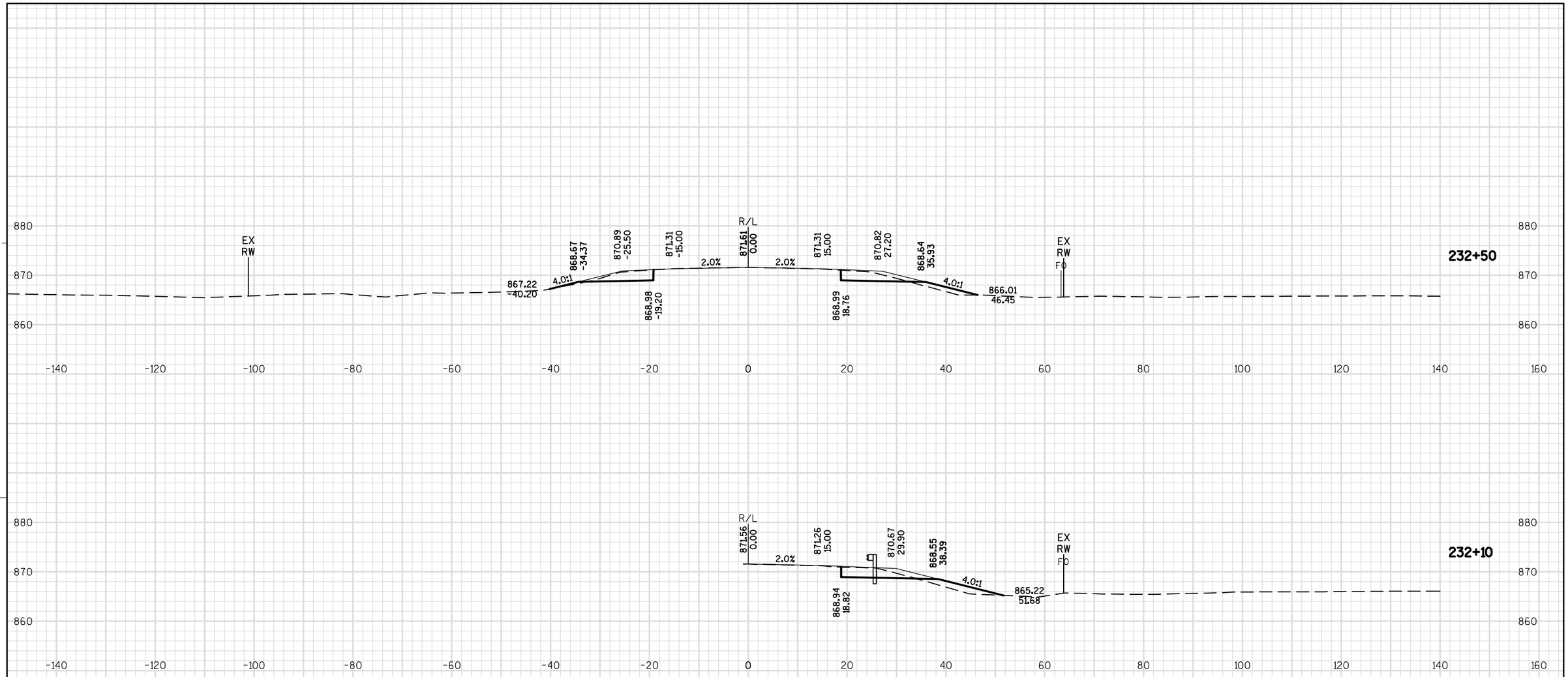


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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET	E

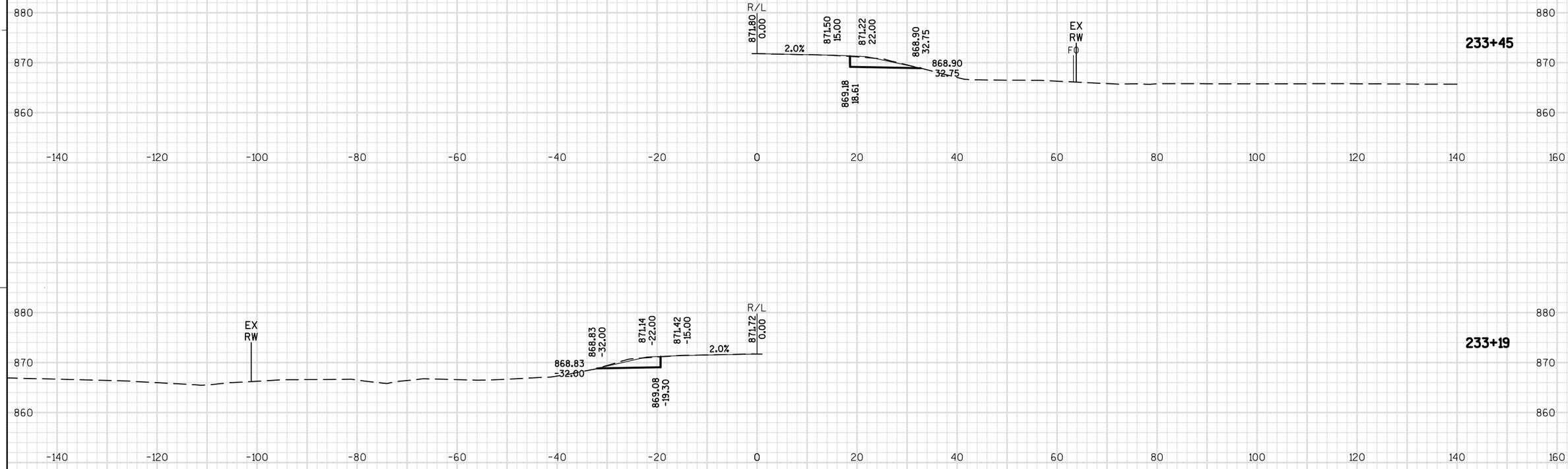
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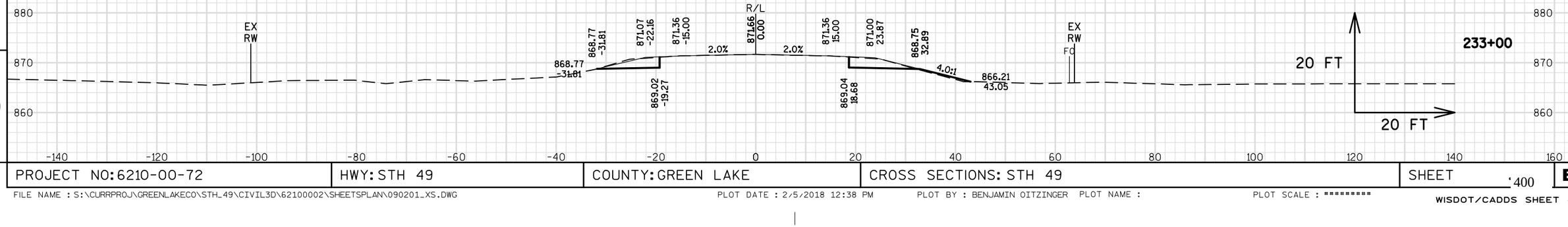


PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:38 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

WISDOT/CADDS SHEET 49





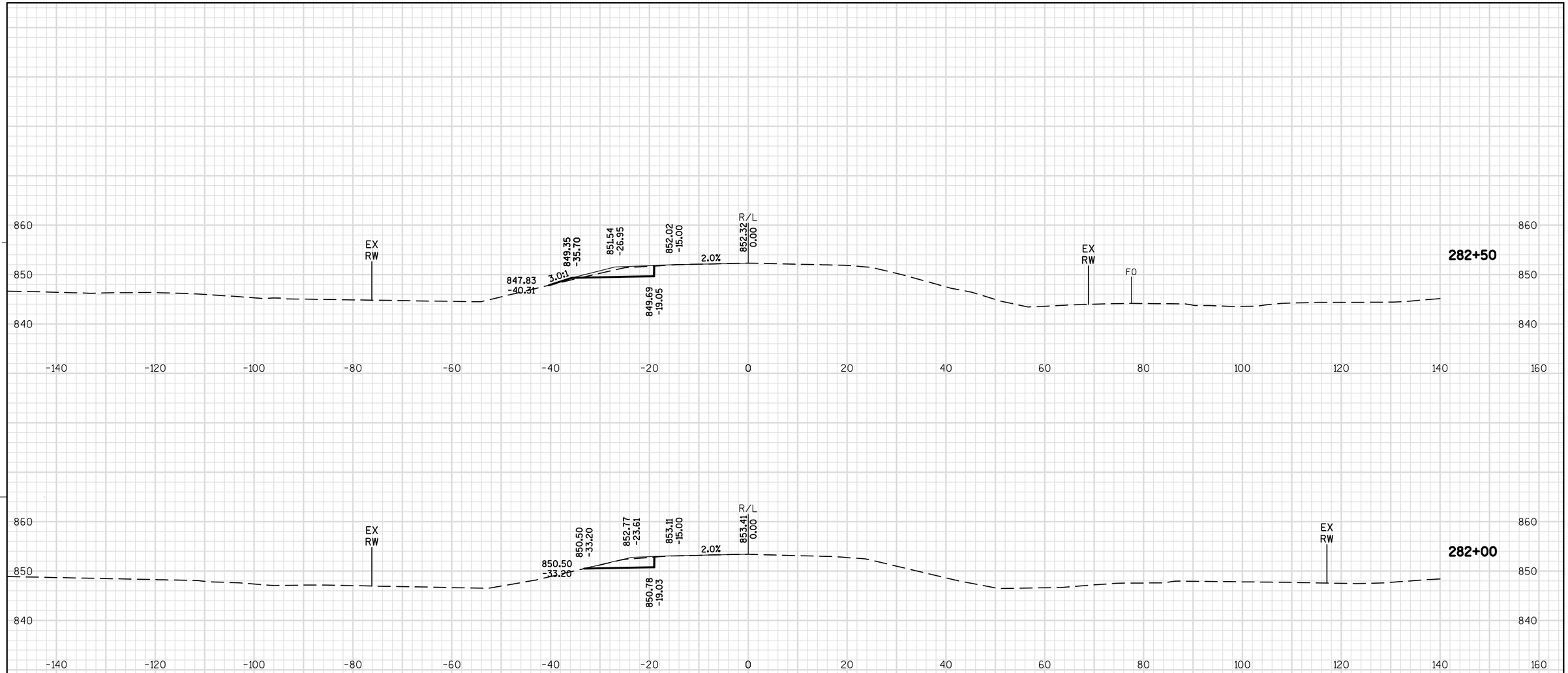
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 400	E

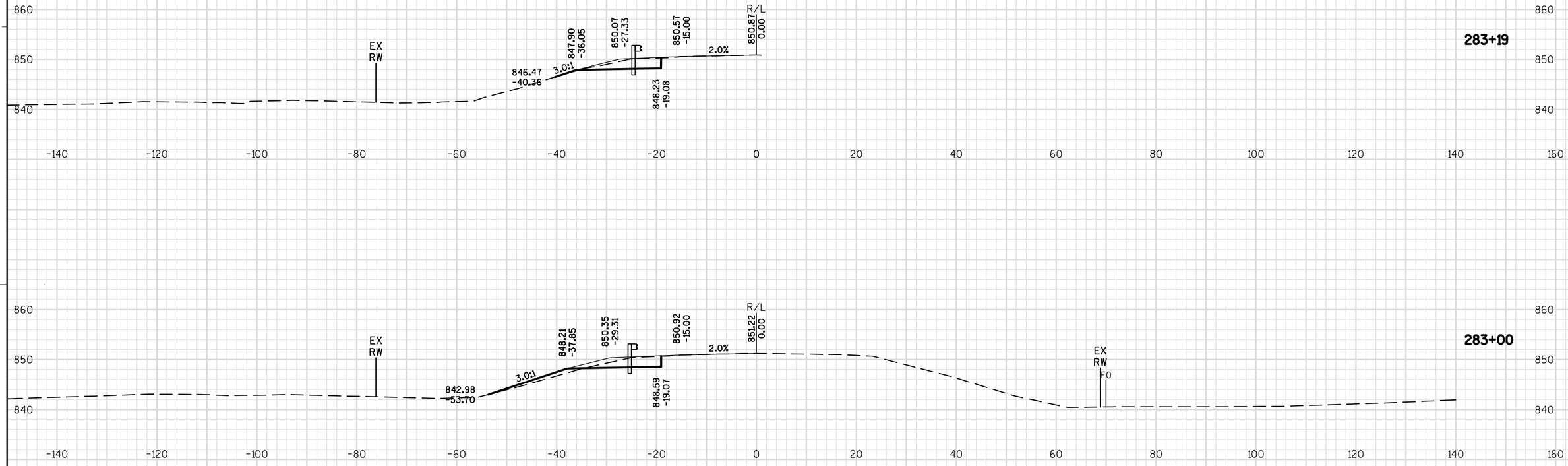
FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:38 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

WISDOT/CADDS SHEET 49



PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 401	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:39 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : ********* WISDOT/CADDS SHEET 49



PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 402	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:39 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

WISDOT/CADDS SHEET 49

SLOPE GRADING TOPSOIL ONLY

EX RW

840.29 -31.33

2.0:1

844.04 23.94

844.40 -15.00

2.0%

R/L 844.70 0.00

2.0%

844.40 15.00

844.12 22.00

841.82 31.18

3.0:1

841.83 30.98

EXISTING CPCS 48-INCH

6 LF OF CPCS 48-INCH REQUIRED
START INV: 832.68
END INV: 832.90

833.81 55.47

EX RW
FO

286+92

EX RW

840.00 -33.17

2.0:1

844.59 23.94

844.94 -15.00

2.0%

R/L 845.24 0.00

2.0%

844.94 15.00

844.66 22.00

842.37 31.25

842.37 -31.25

842.37 30.98

EX RW
FO

286+50

EX RW

847.43 -36.39

847.43 -36.39

849.67 -25.94

847.77 -19.09

850.11 -15.00

2.0%

R/L 850.41 0.00

20 FT

20 FT

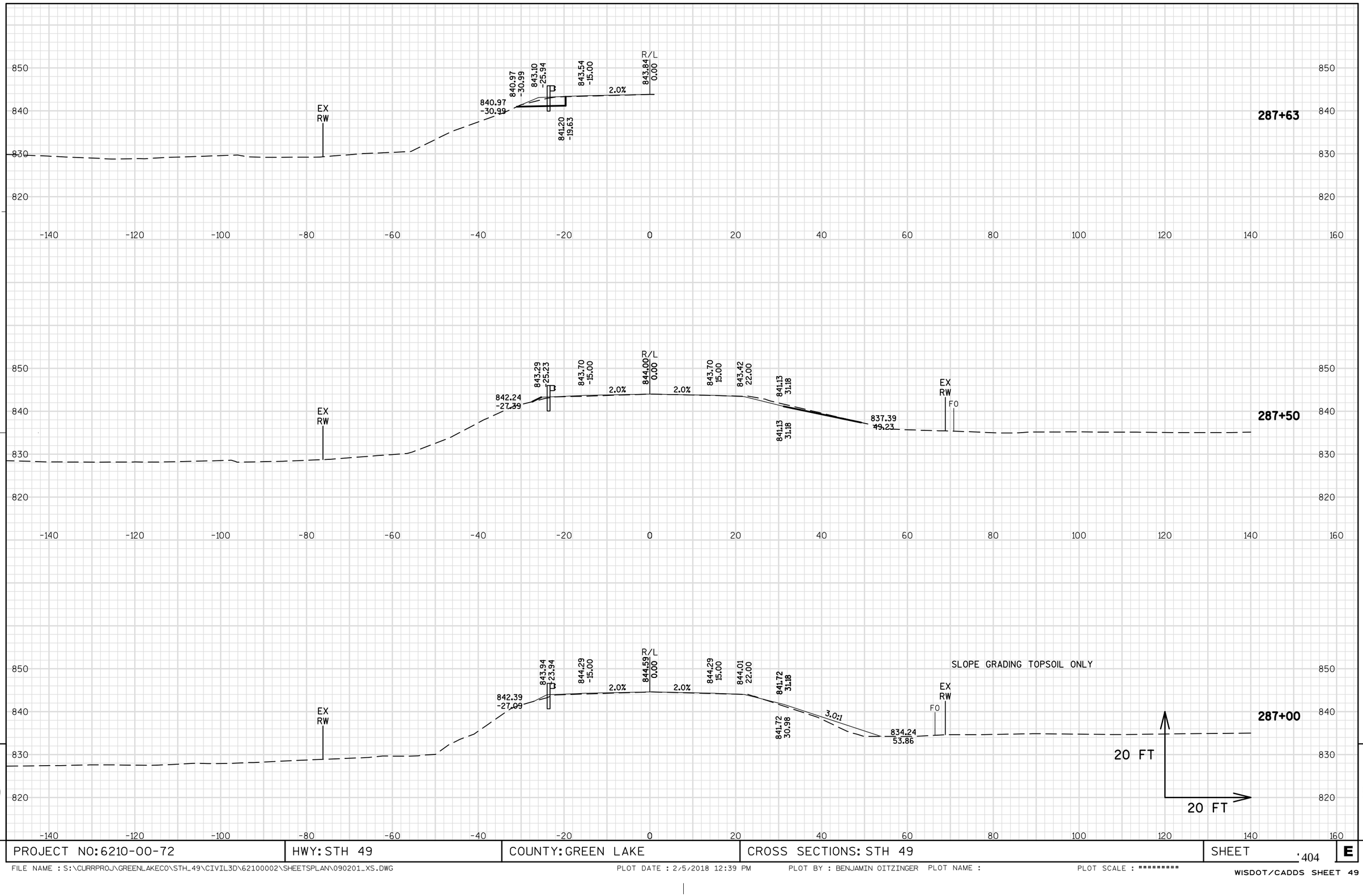
283+44

9

9

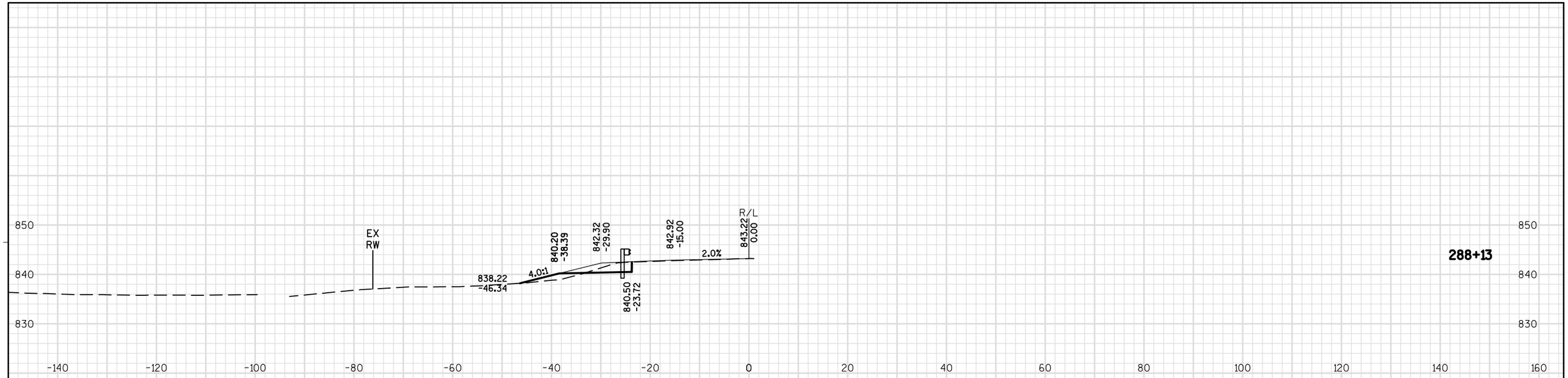
PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 403	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:39 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : ********* WISDOT/CADDS SHEET 49



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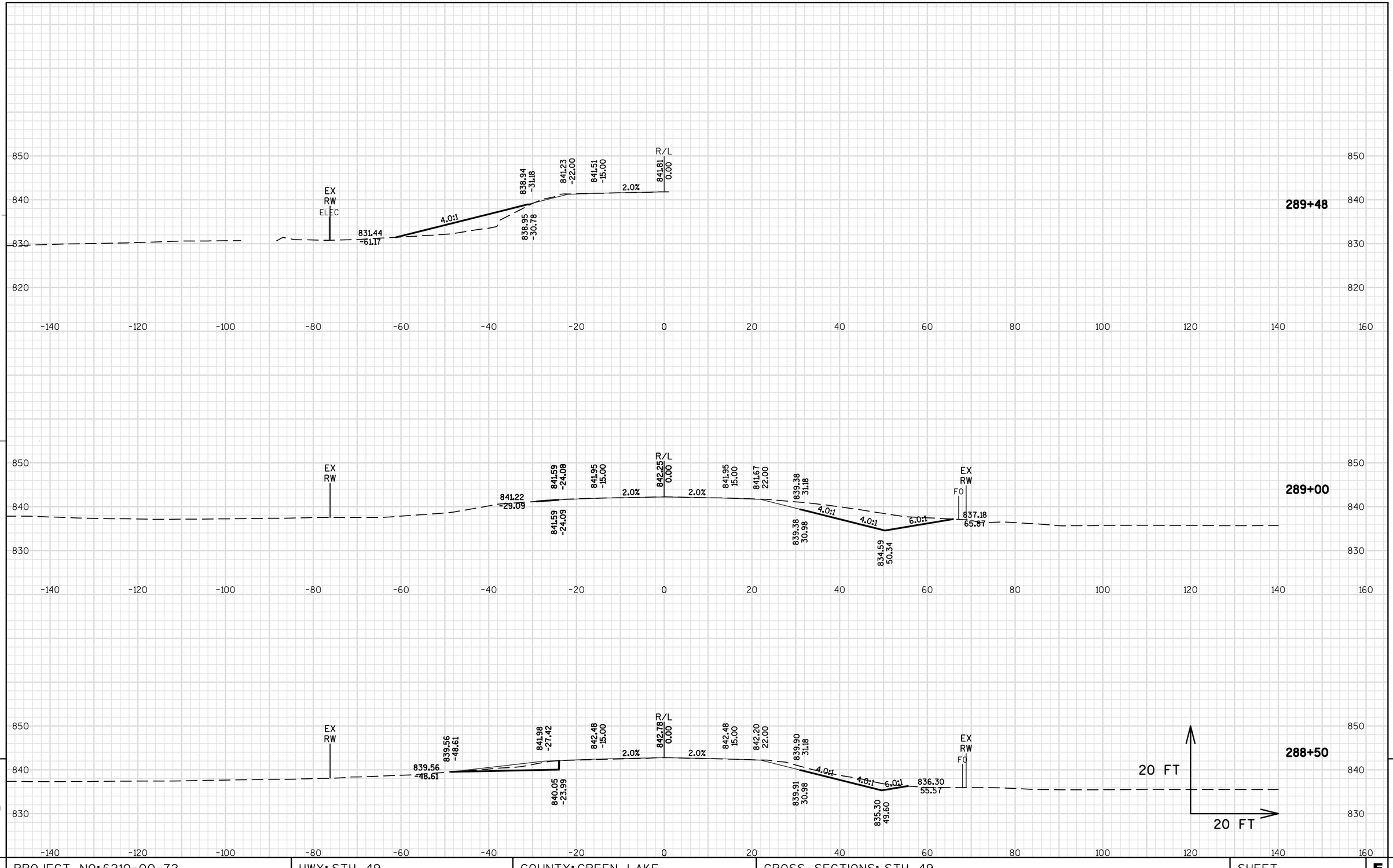
PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 404	E



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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 405	E

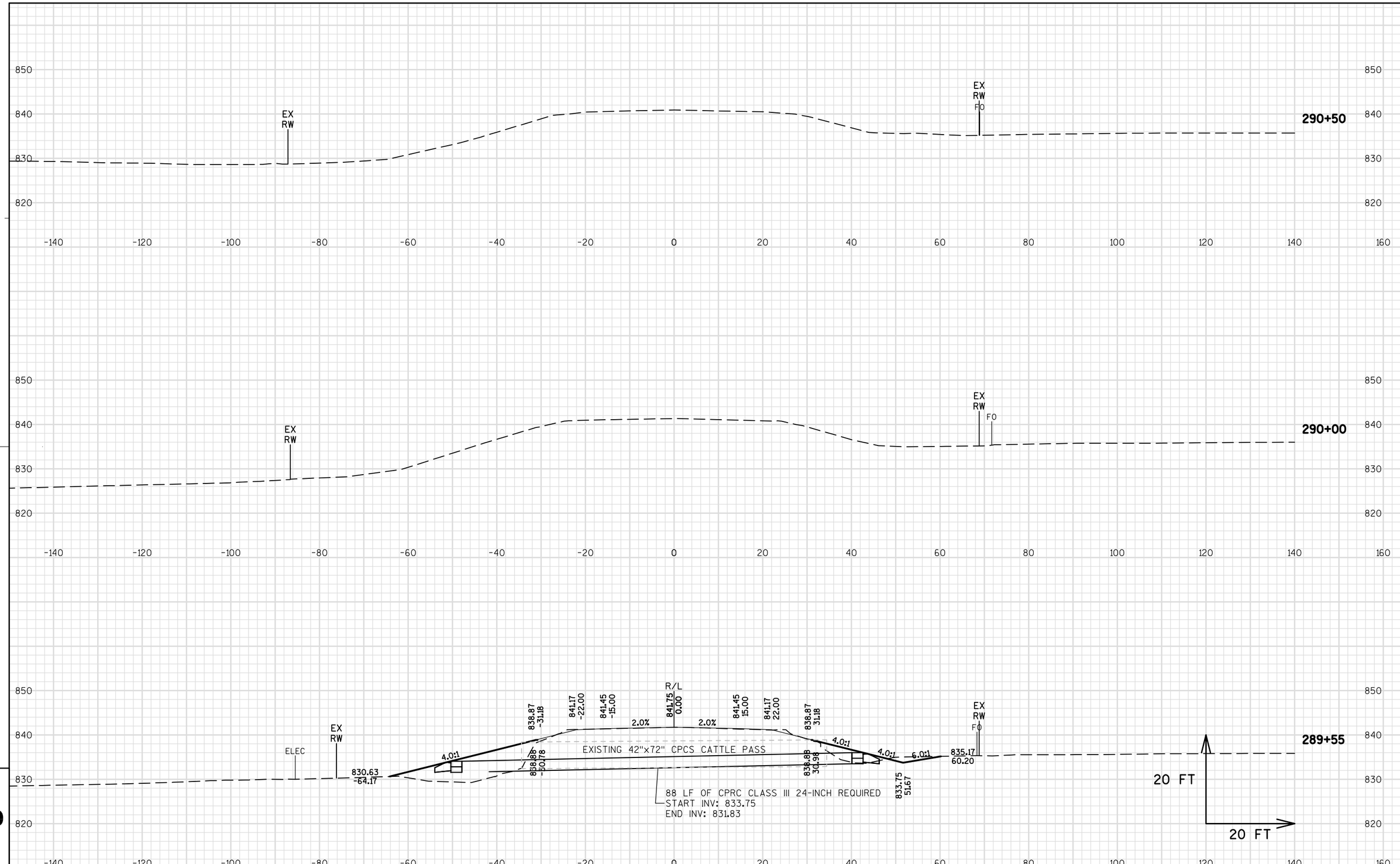
FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:39 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : ********* WISDOT/CADDS SHEET 49



PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 406

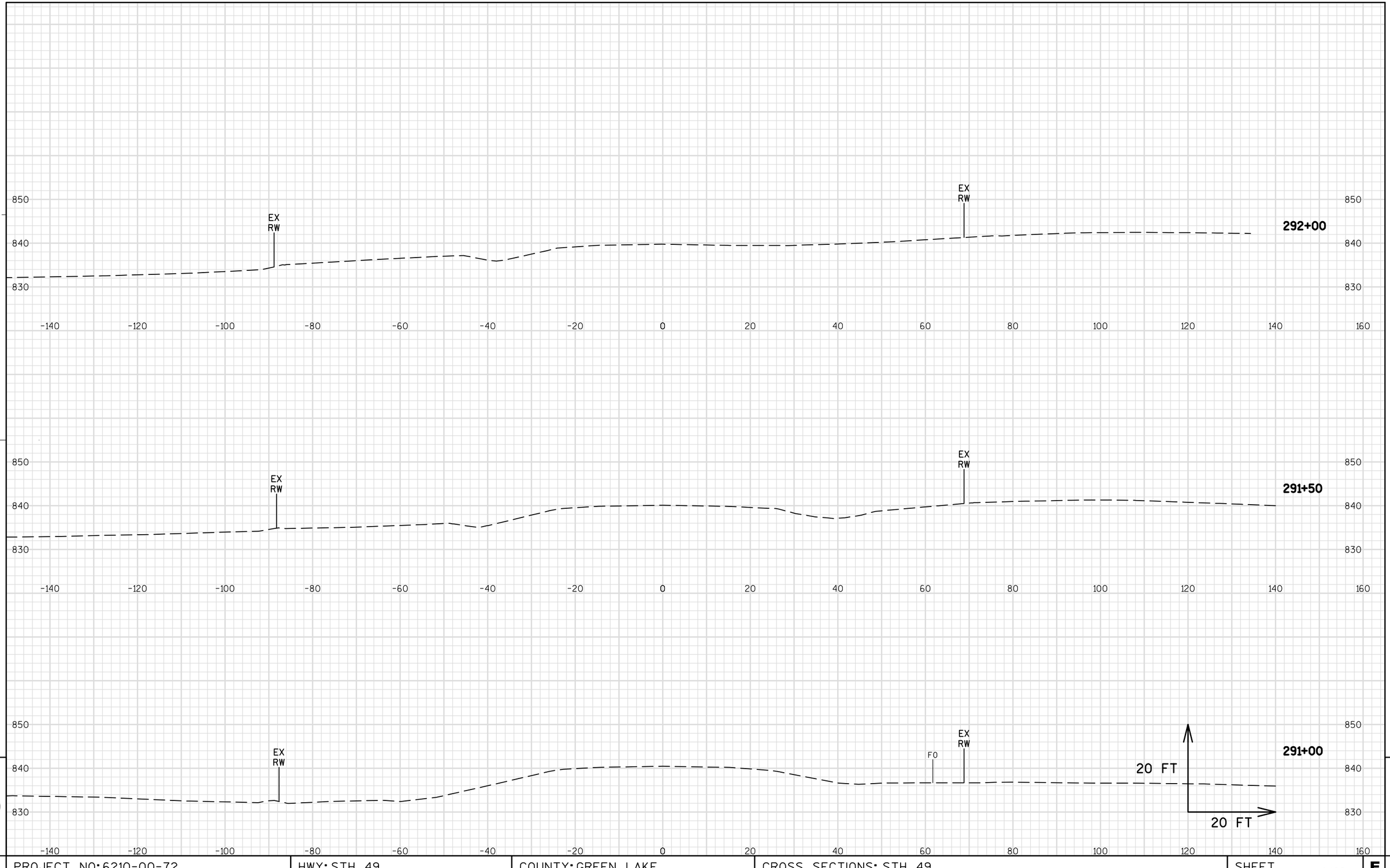
FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:39 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

WISDOT/CADDS SHEET 49



PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 407	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:39 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : ********** WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 408	E

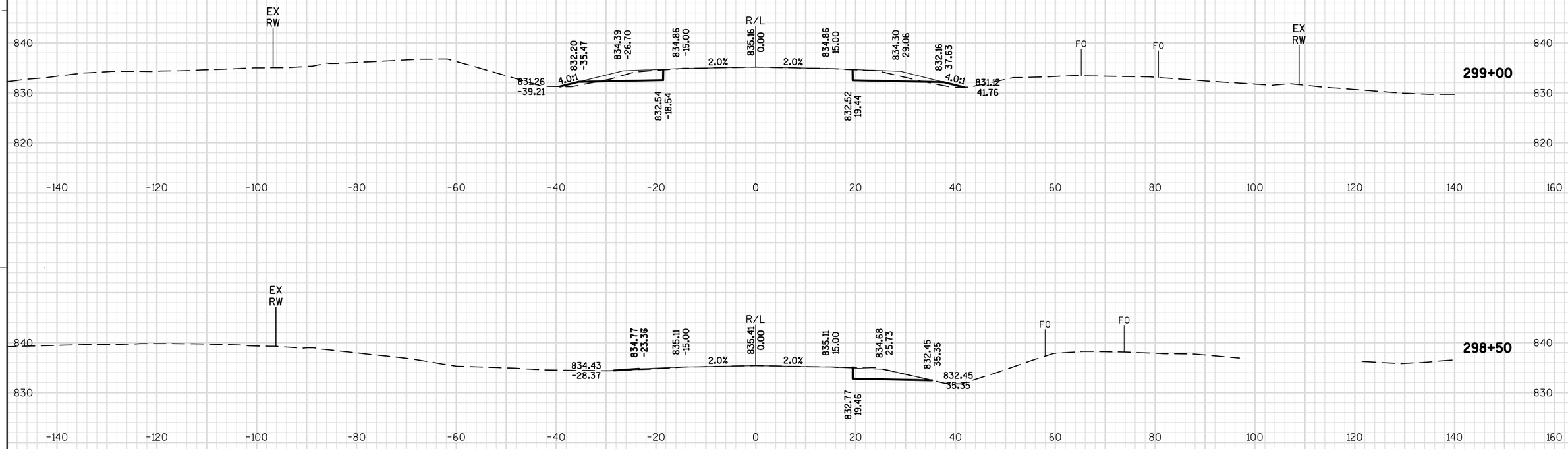
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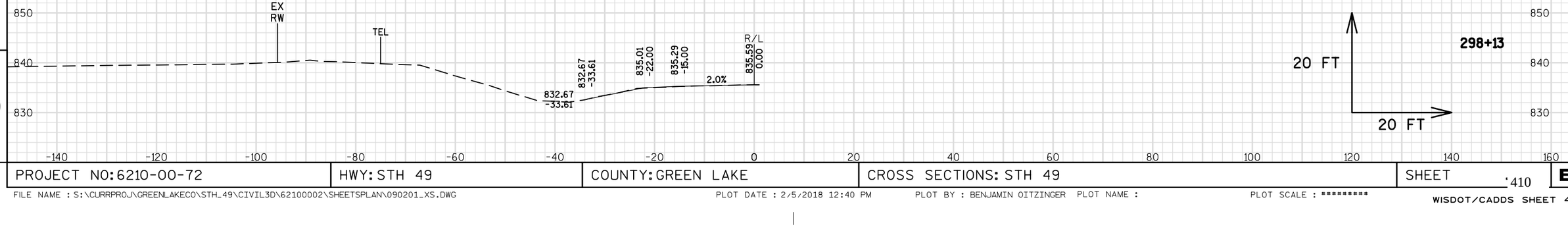
WISDOT/CADDS SHEET 49

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 409	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:40 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

WISDOT/CADDS SHEET 49





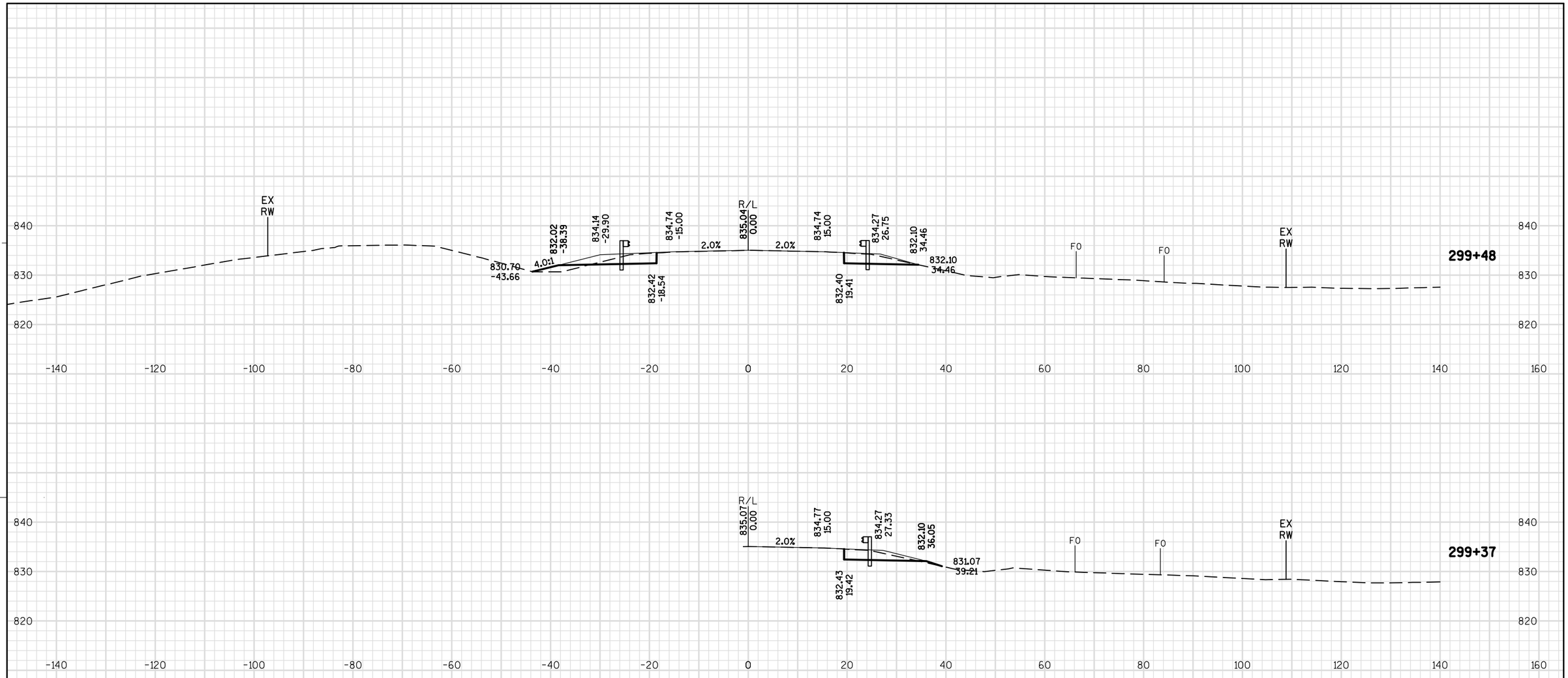
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 410	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:40 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

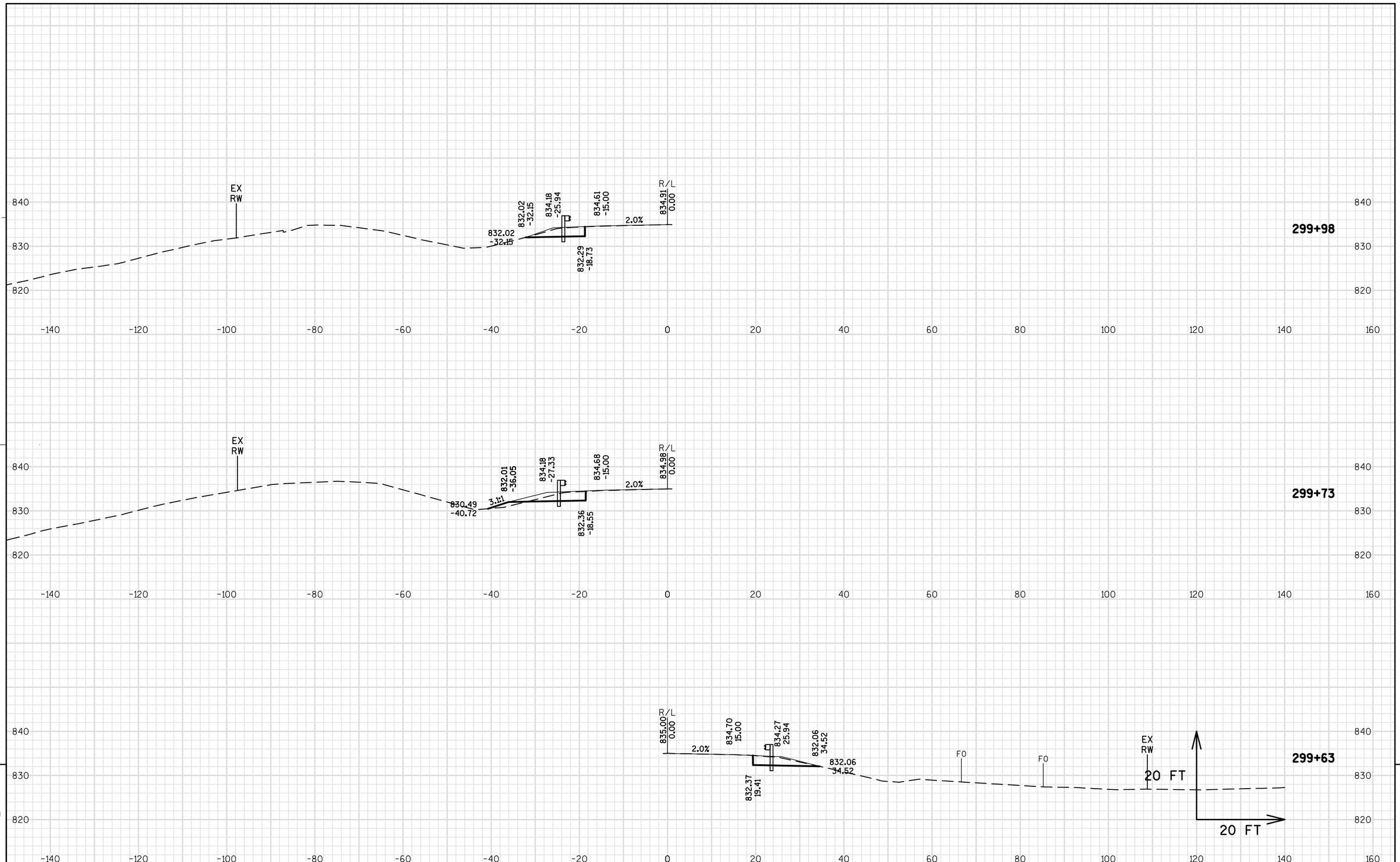
WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 411	E



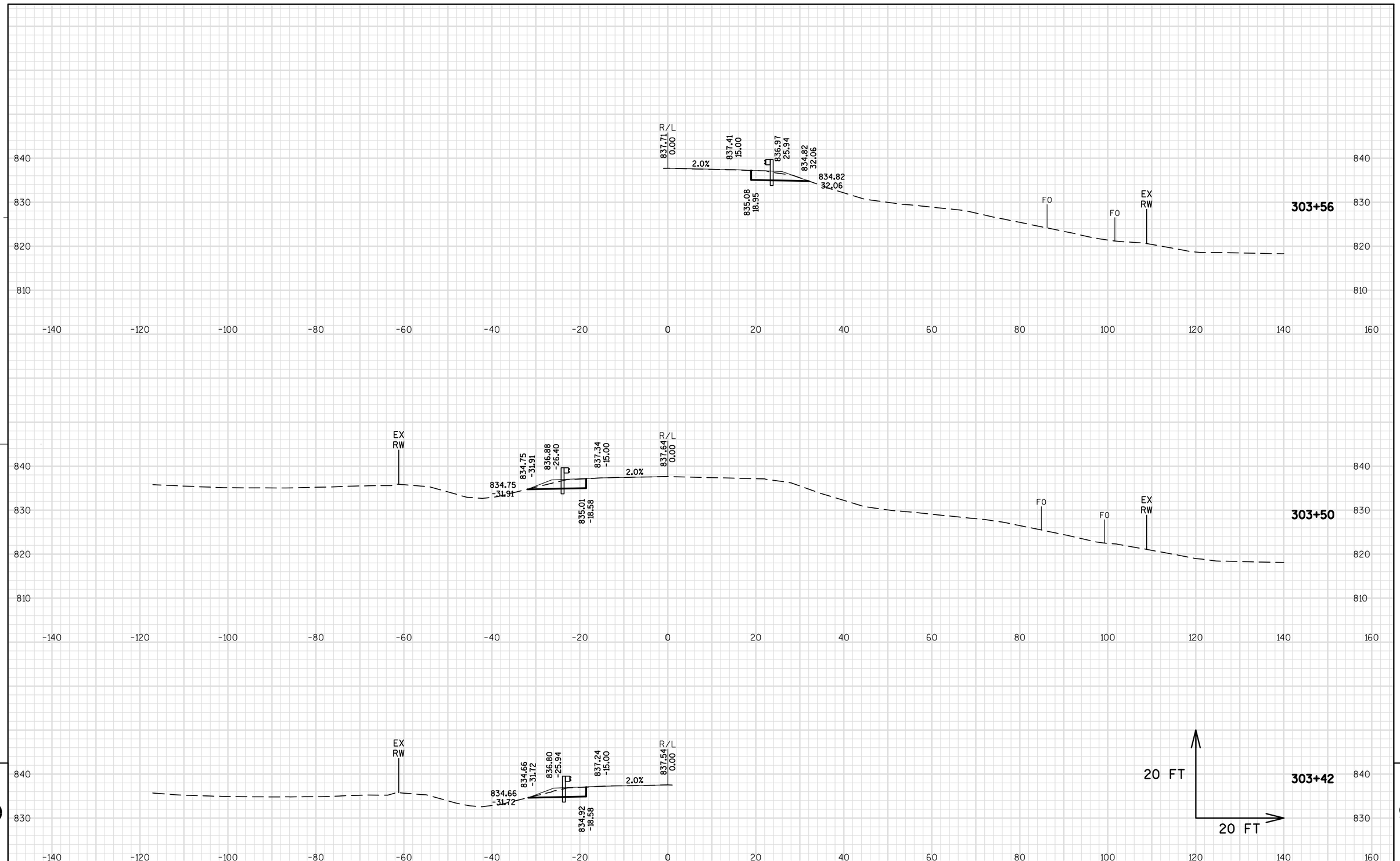
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 412	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:40 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

WISDOT/CADDS SHEET 49



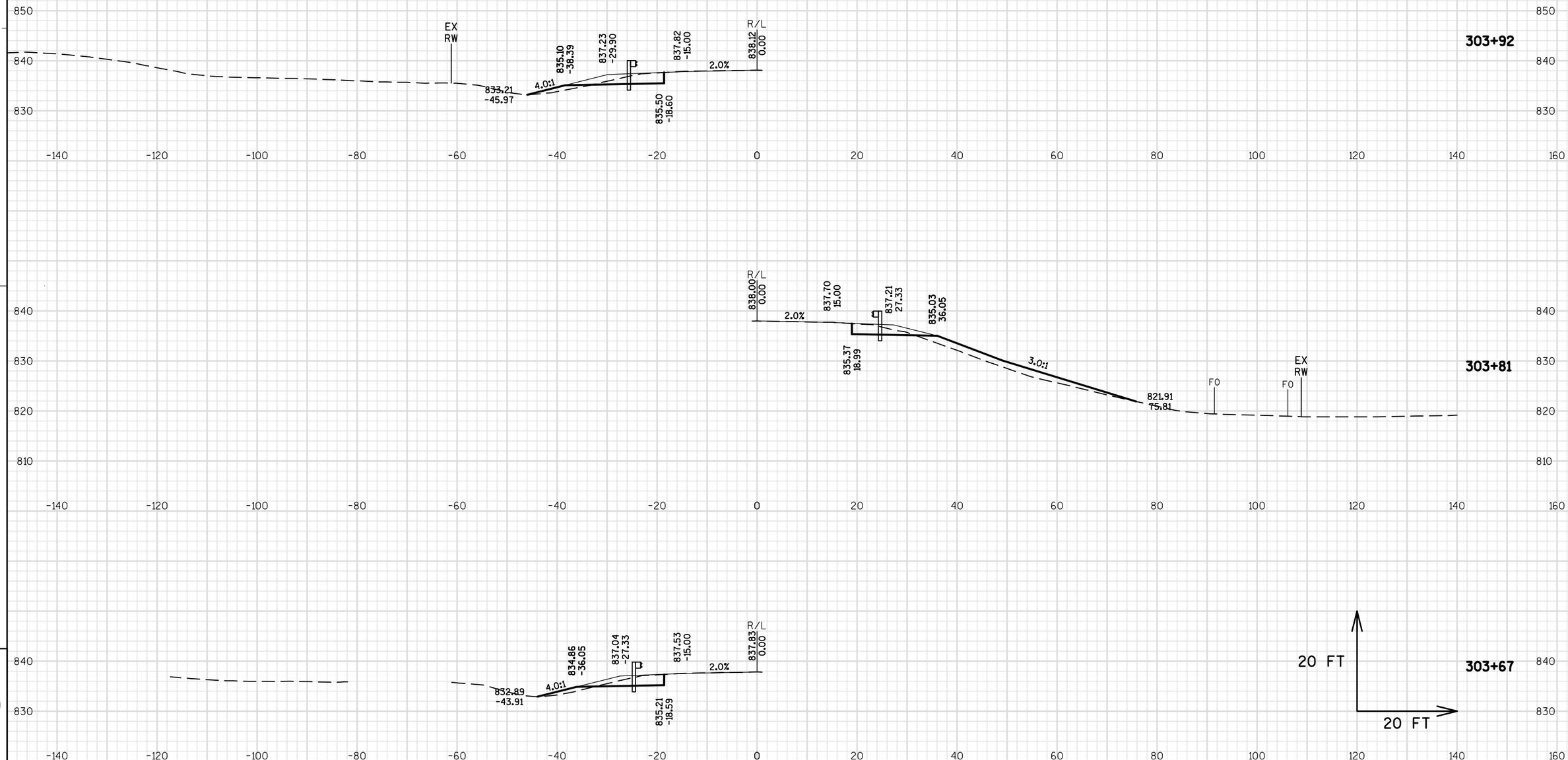
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 413	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:40 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : **********

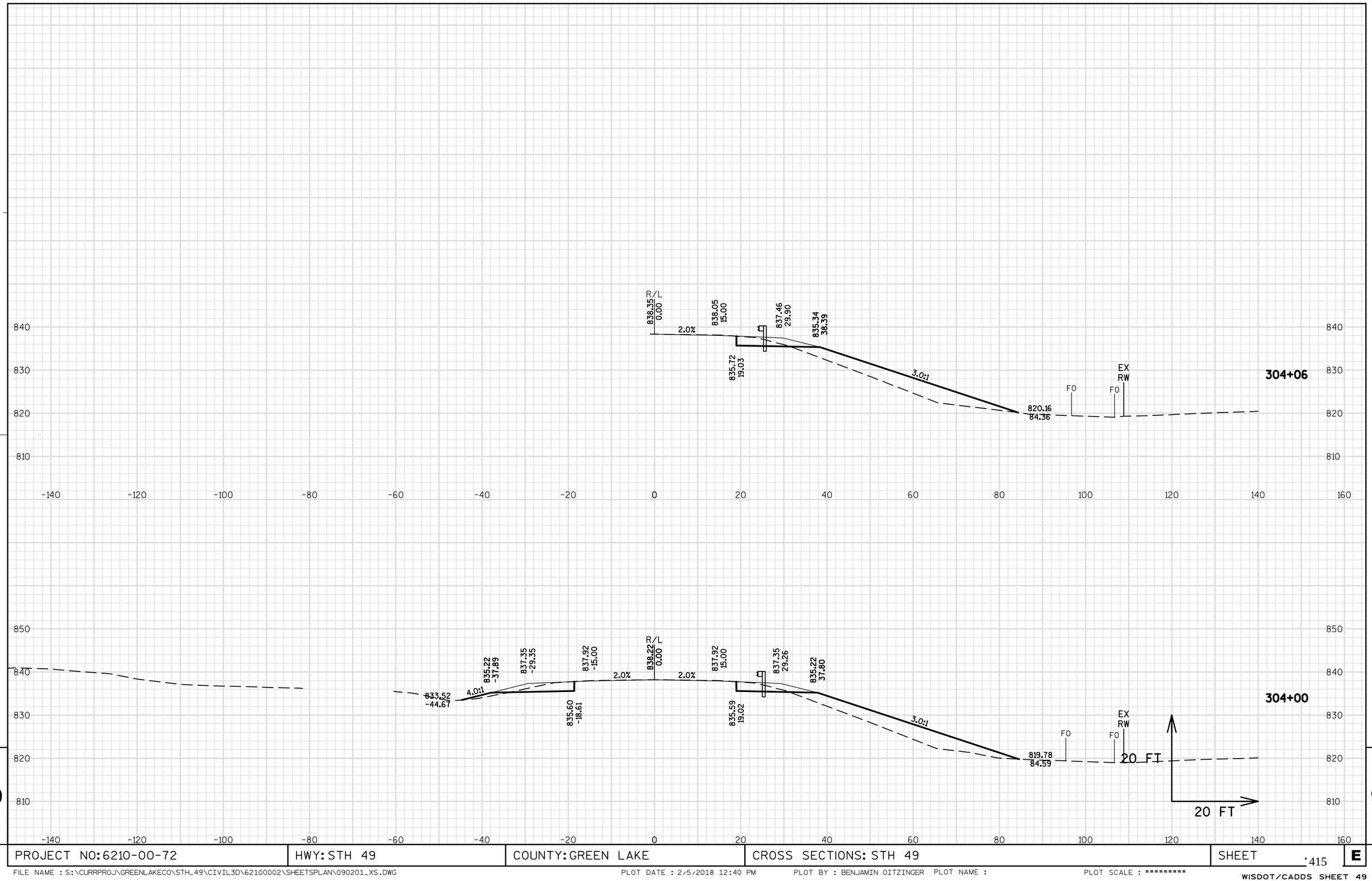
WISDOT/CADDS SHEET 49



PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 414

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:40 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : **********

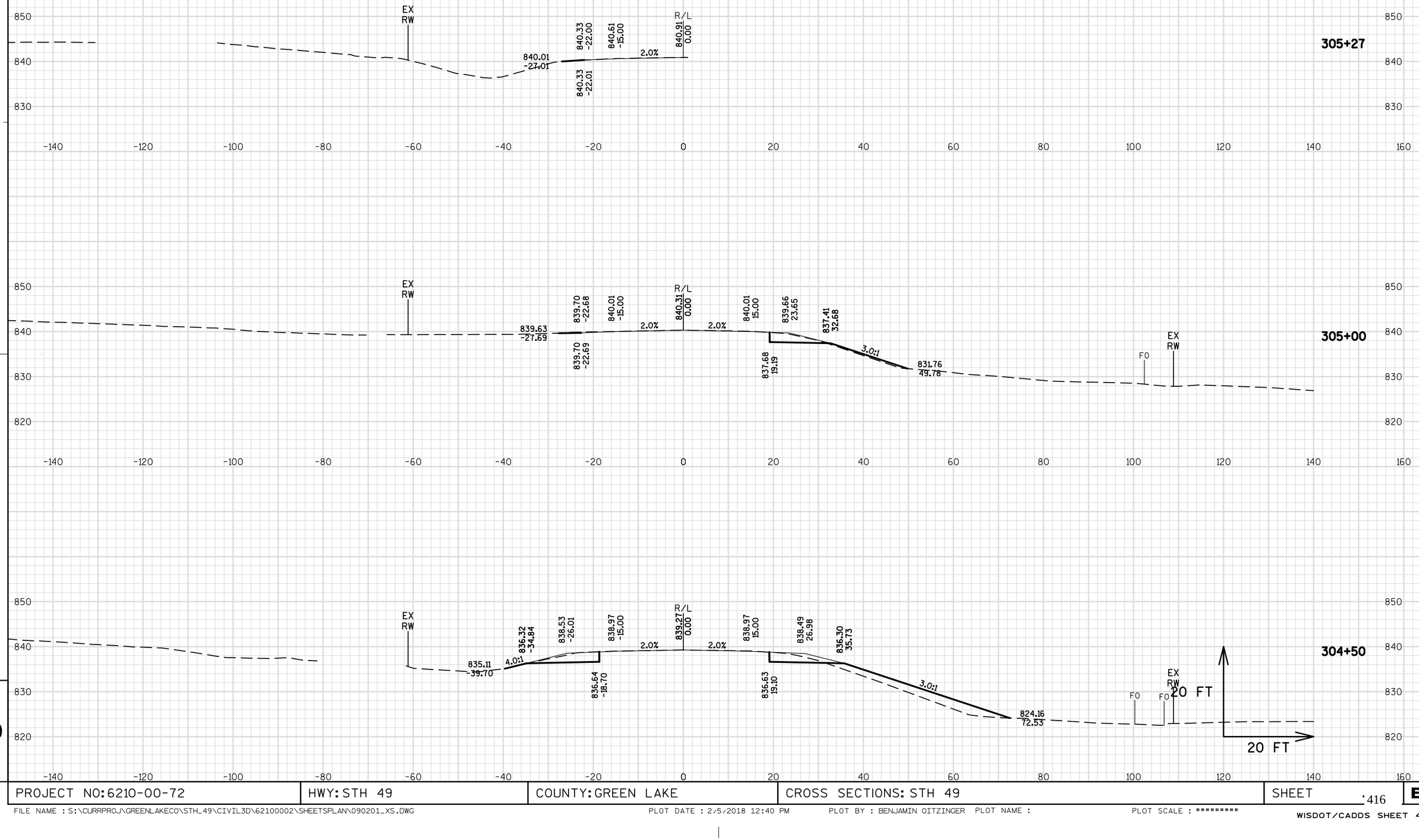
WISDOT/CADDS SHEET 49



PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 415	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:40 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

WISDOT/CADDS SHEET 49

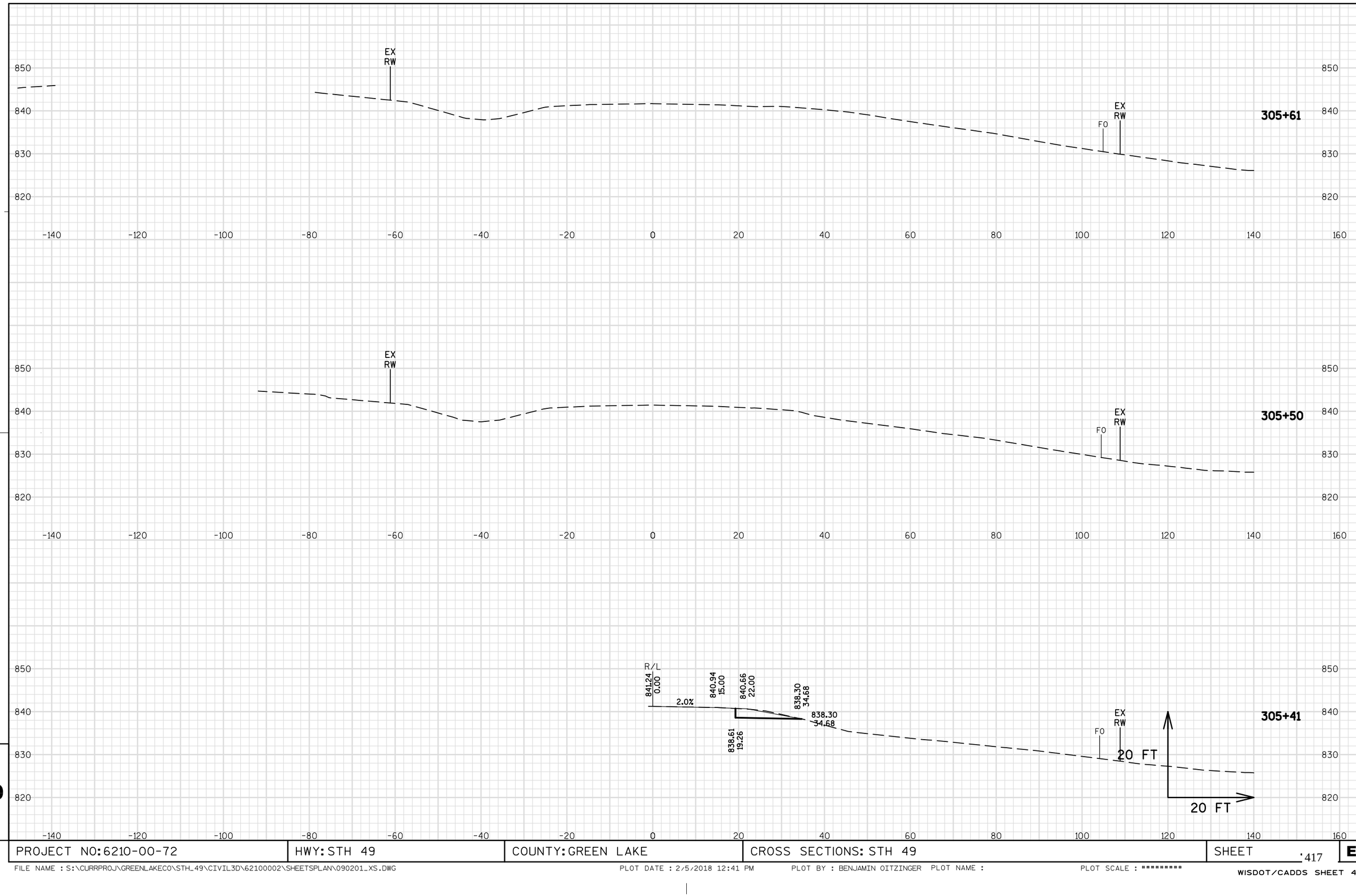


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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 416	E

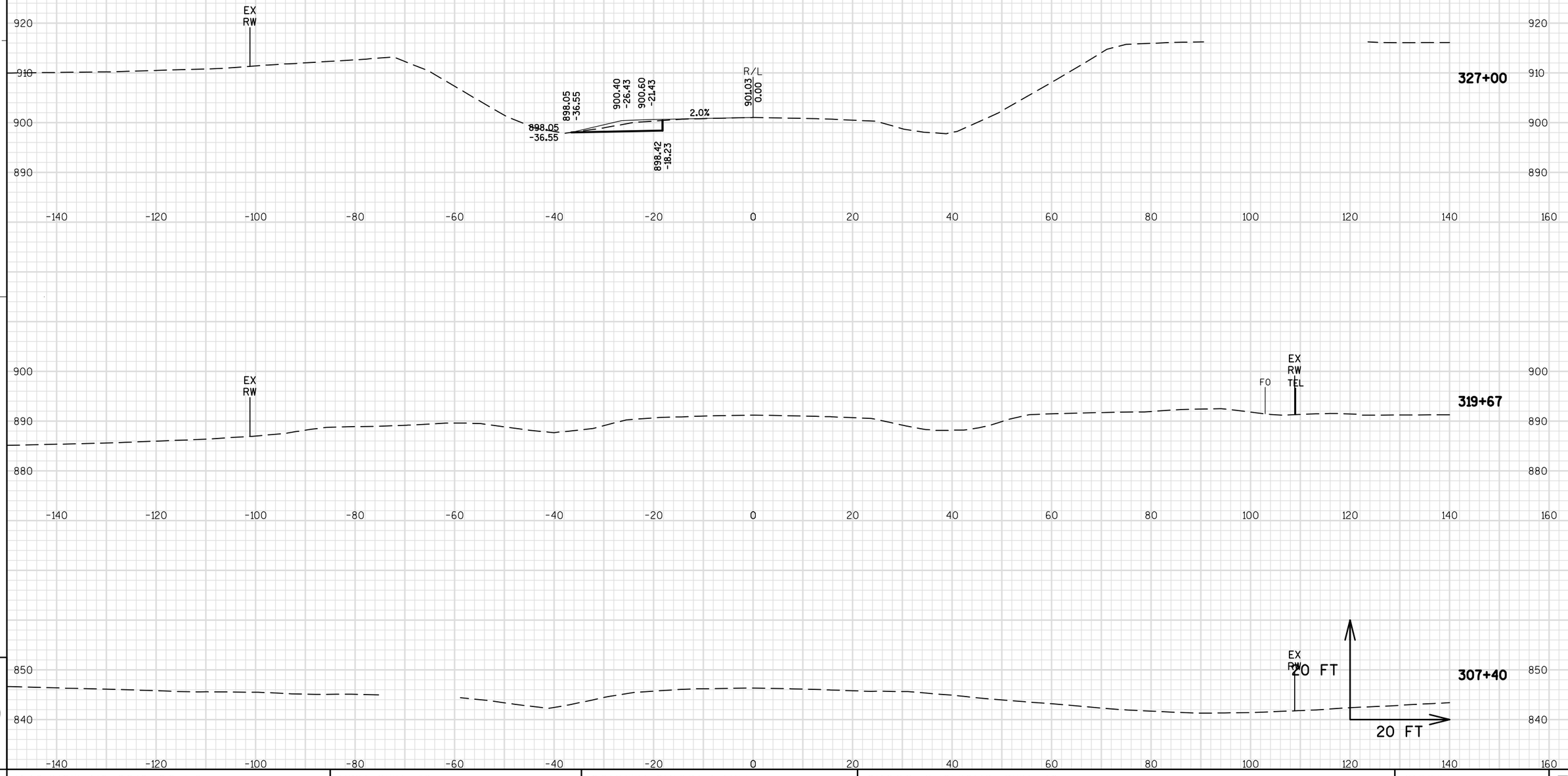
FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:40 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : ********* WISDOT/CADDS SHEET 49



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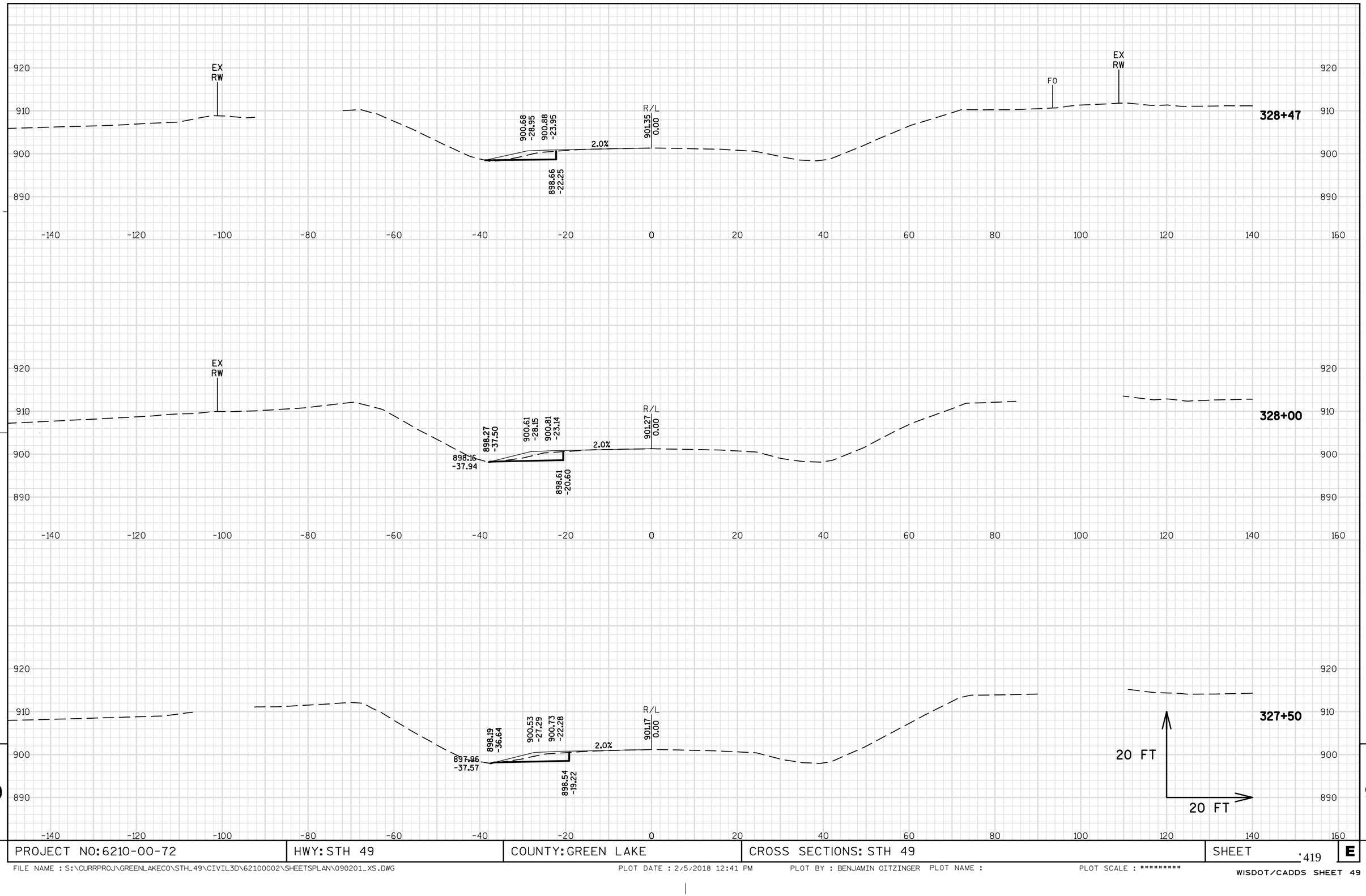
PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 417	E



PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 418 E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:41 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

WISDOT/CADDS SHEET 49



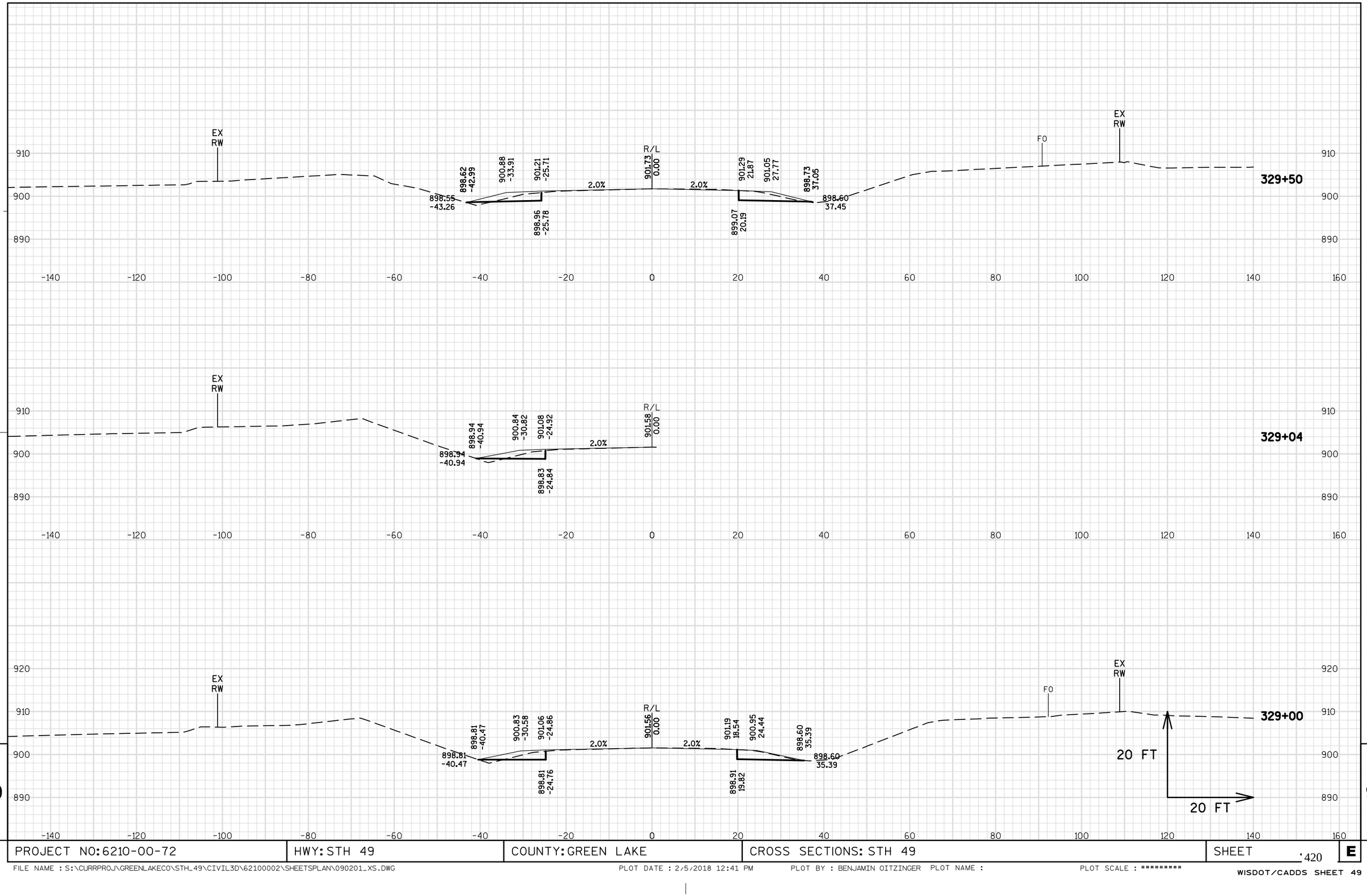
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 419	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:41 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

WISDOT/CADDS SHEET 49



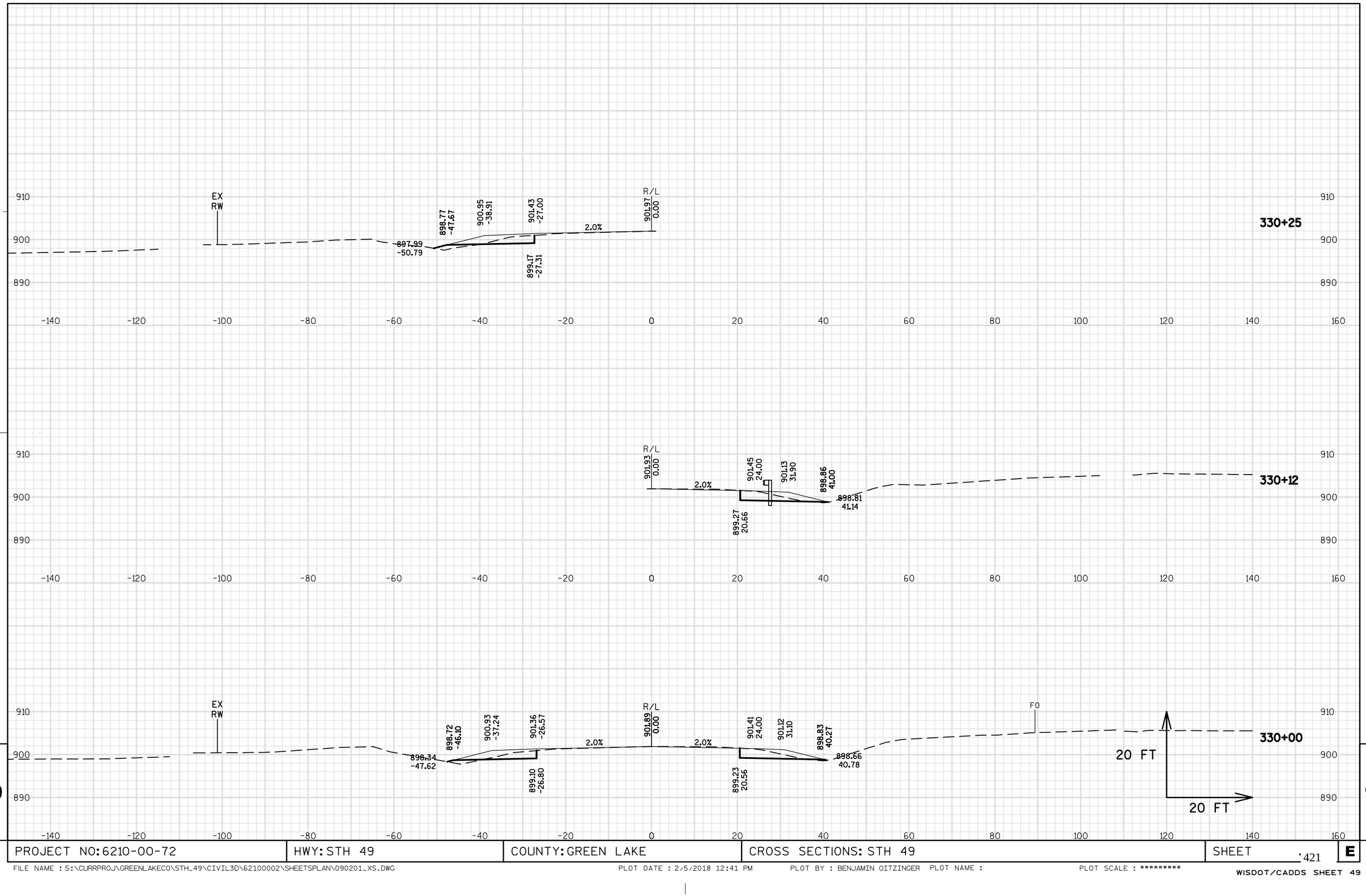
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 420	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:41 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

WISDOT/CADDS SHEET 49



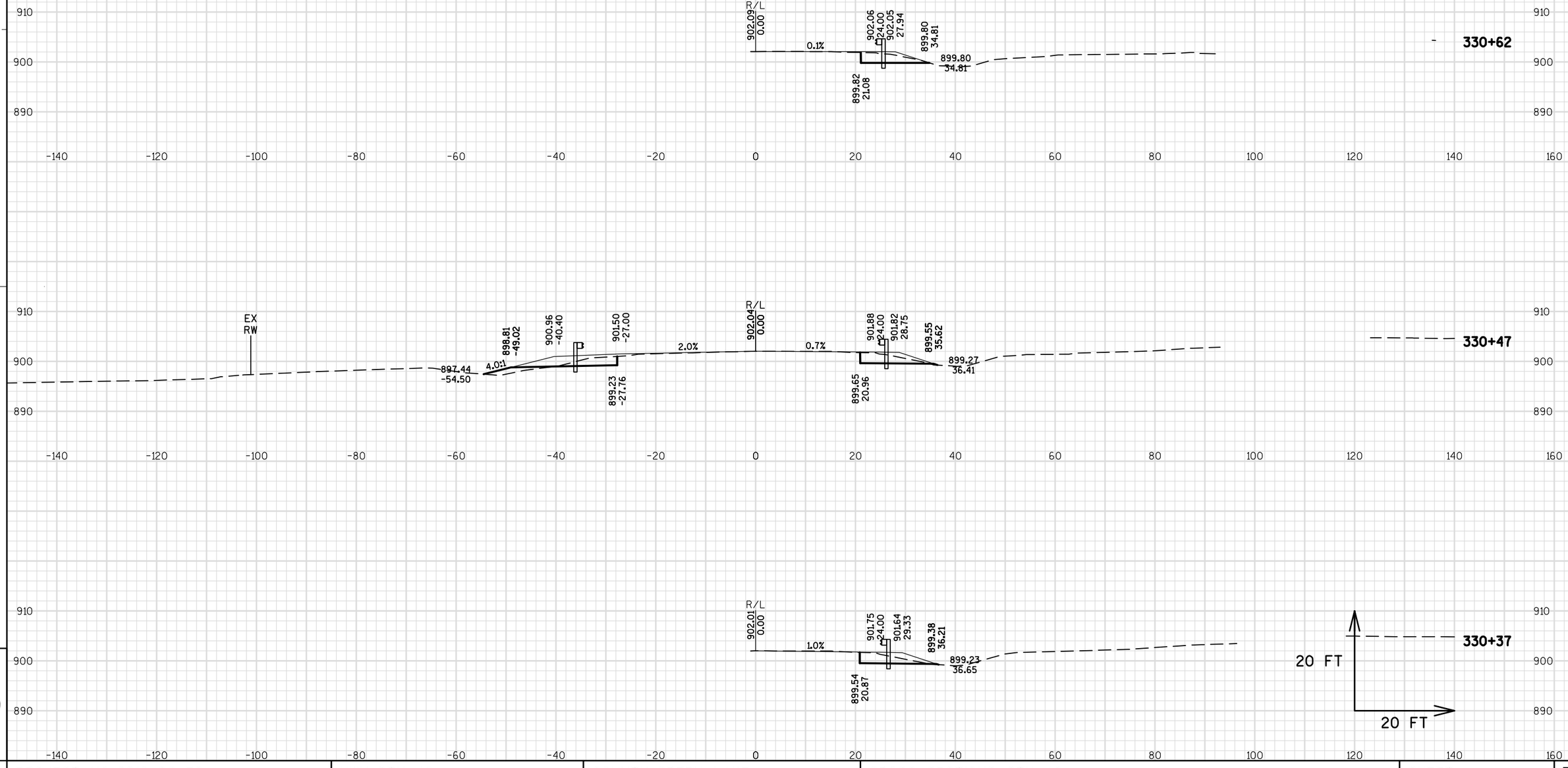
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 421	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:41 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 49

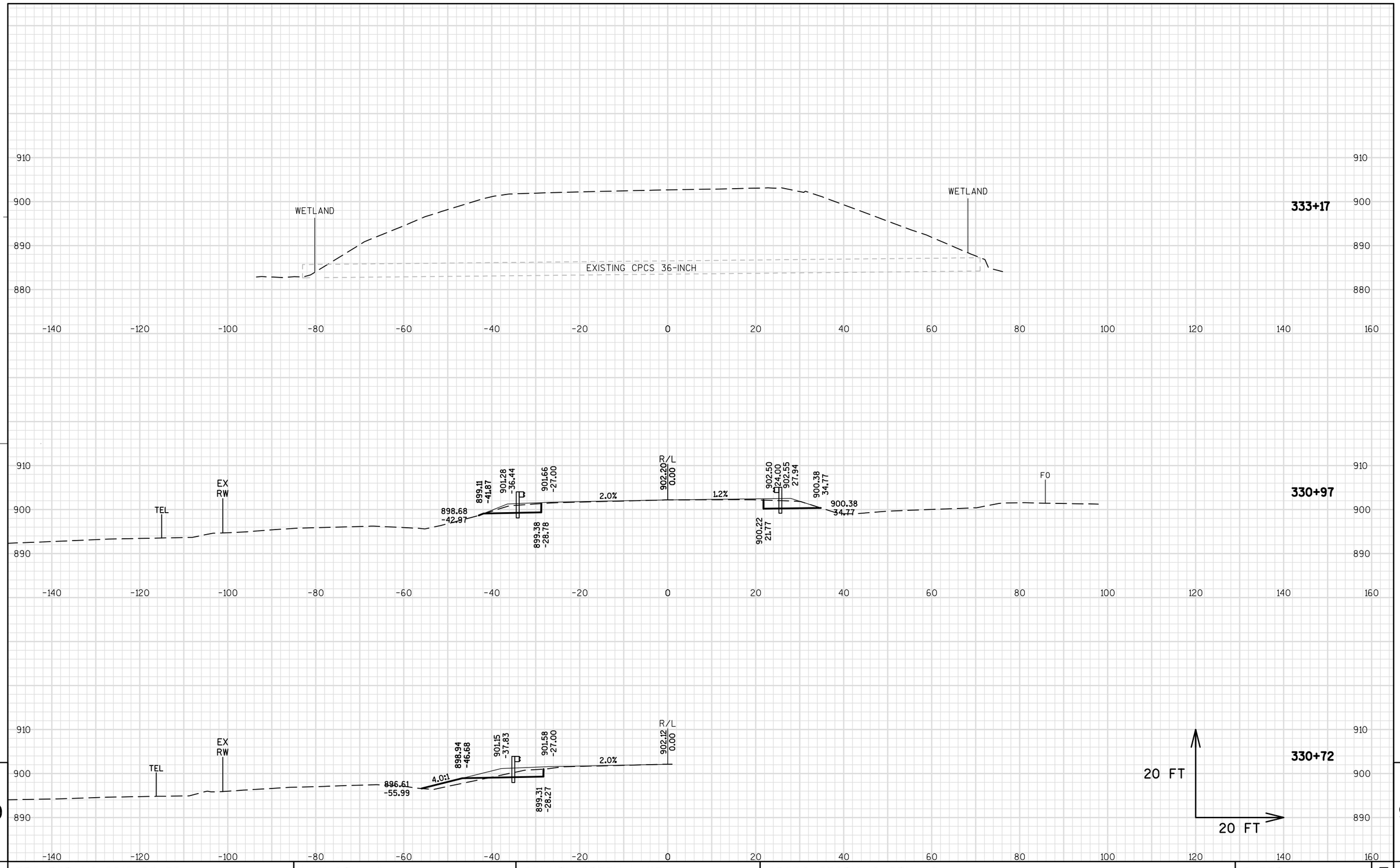


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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 422	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:41 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : ********** WISDOT/CADDS SHEET 49



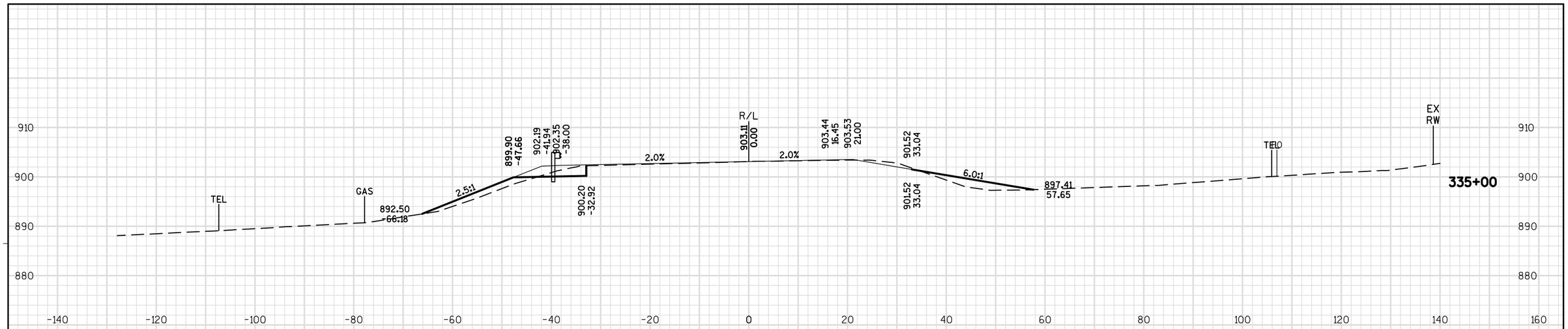
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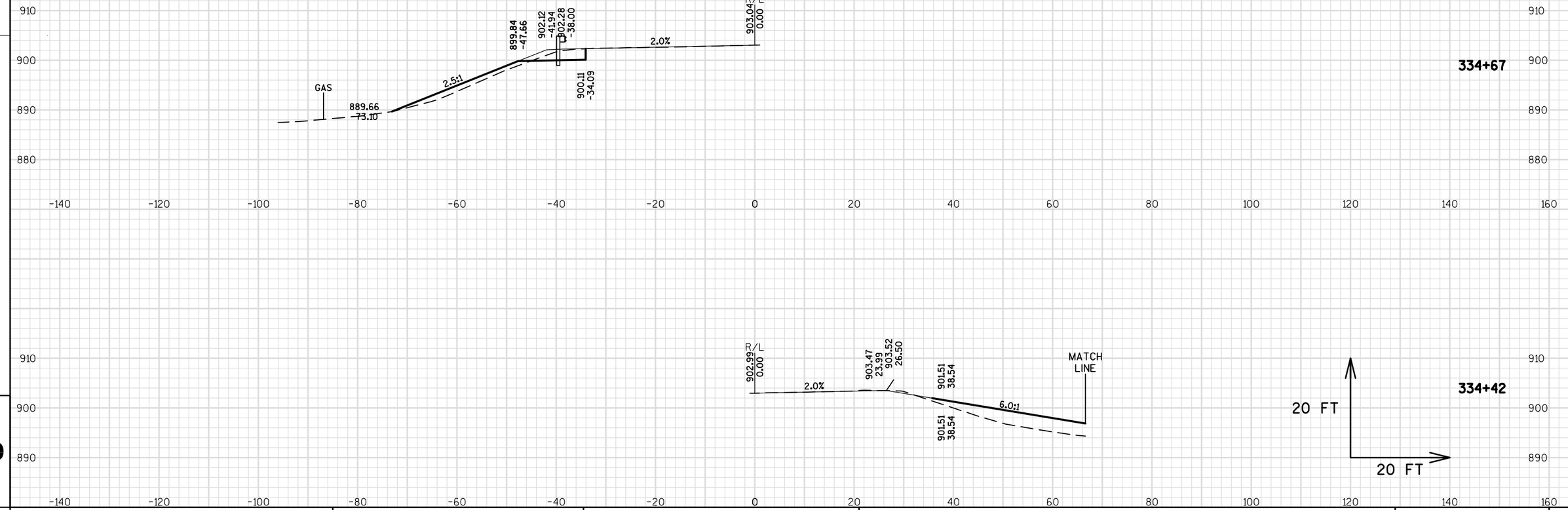
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 423	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:41 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 49





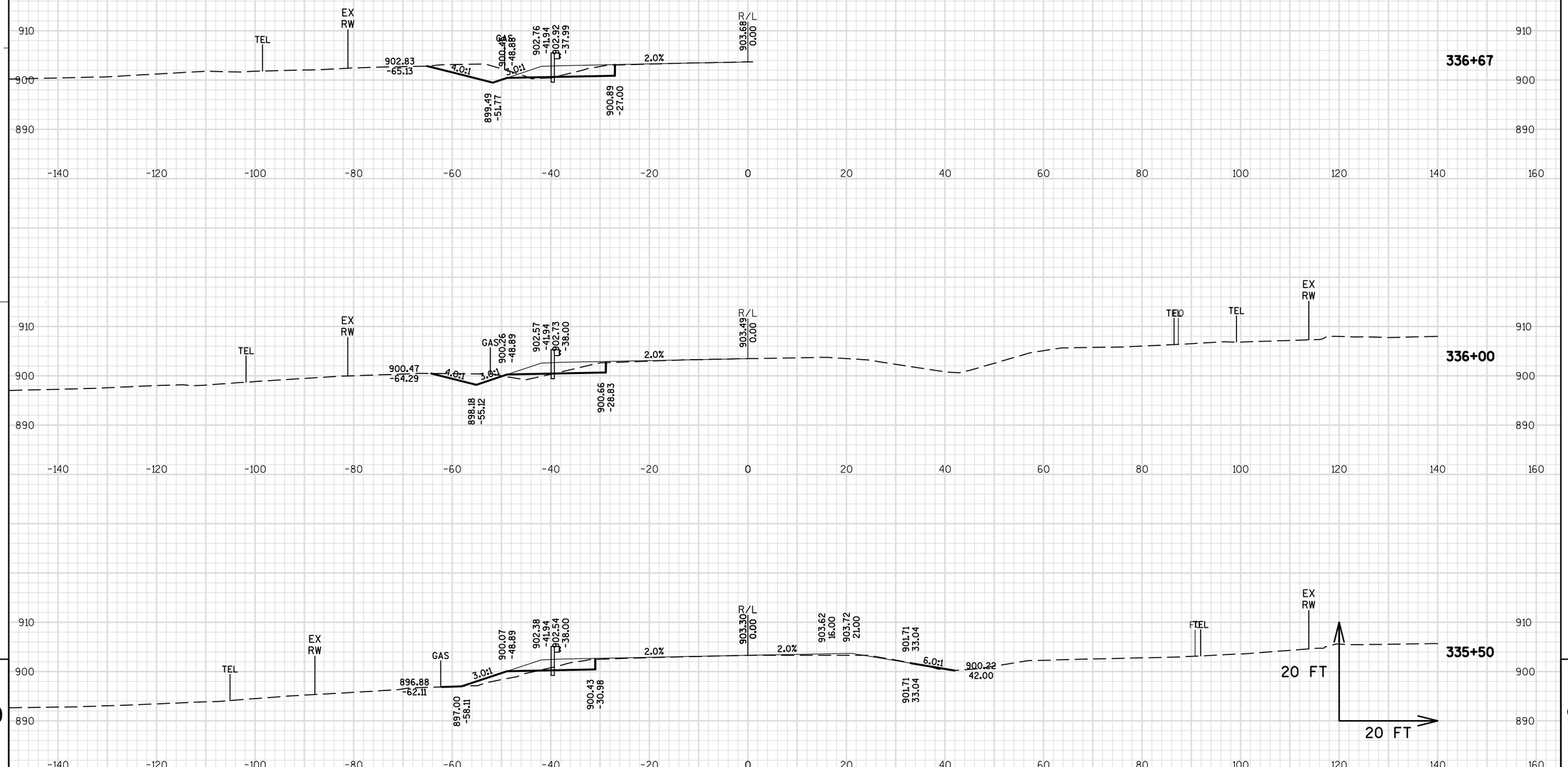
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 424	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:41 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

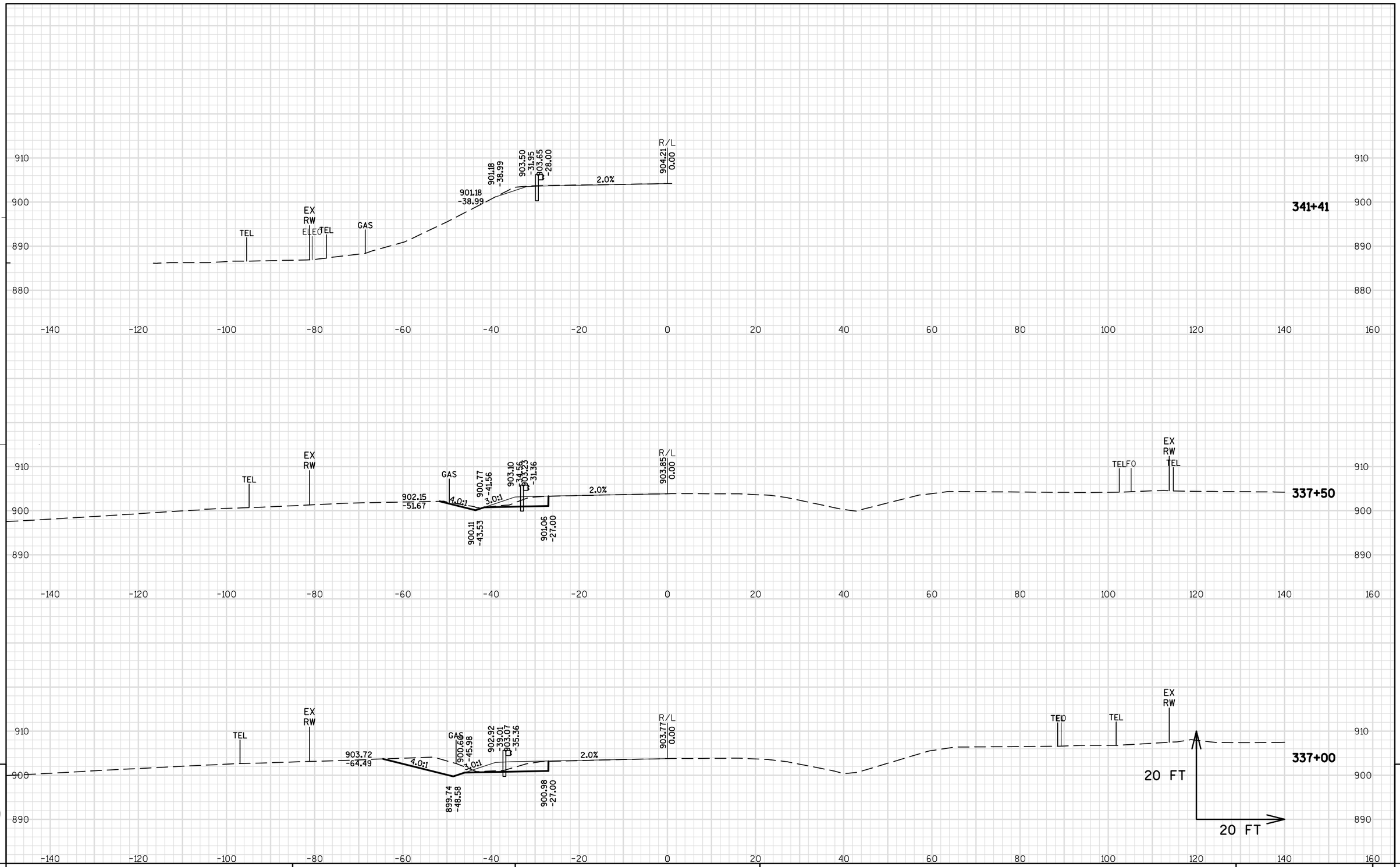
WISDOT/CADDS SHEET 49



PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 425	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:42 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

WISDOT/CADDS SHEET 49



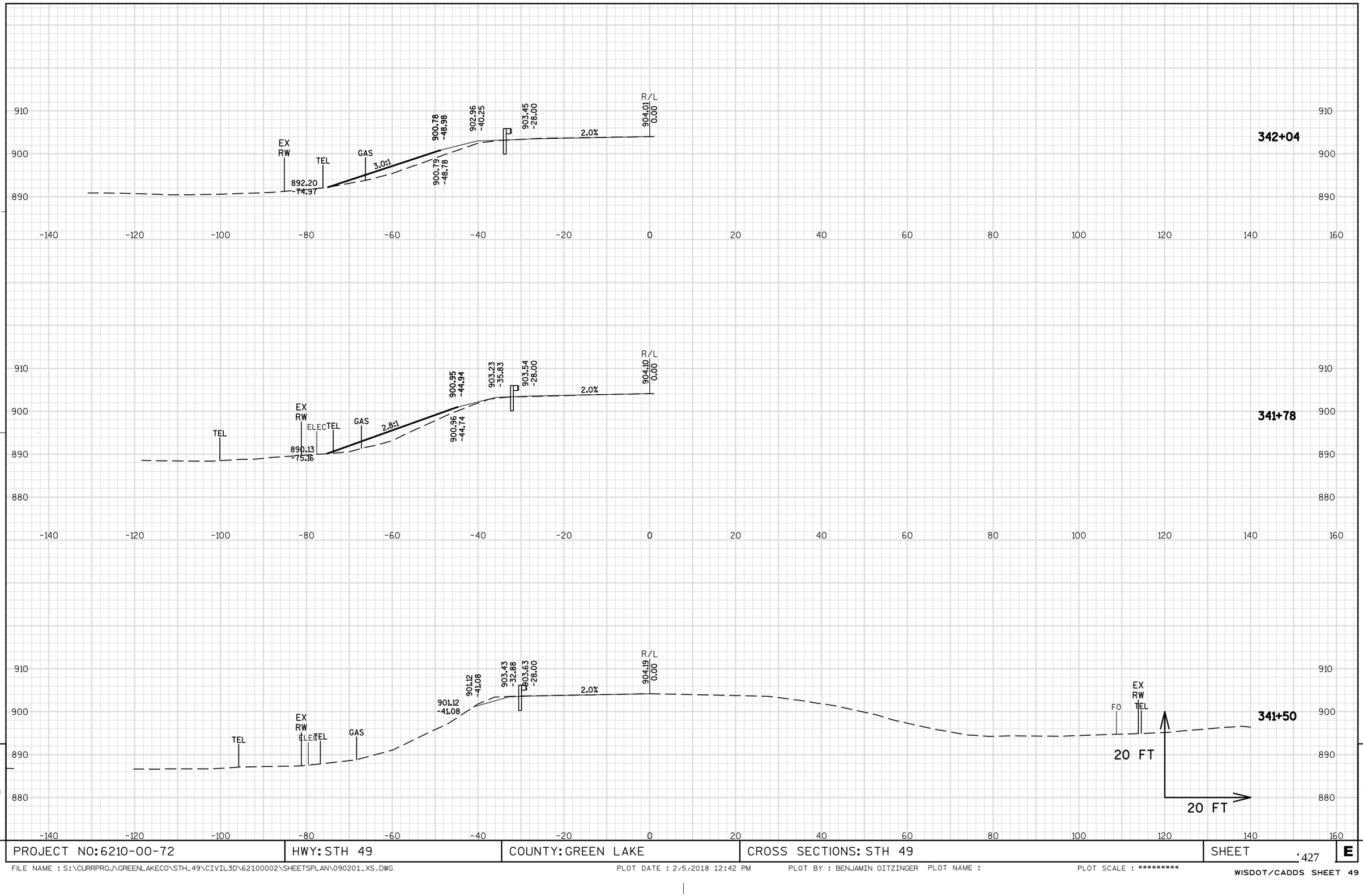
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:42 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

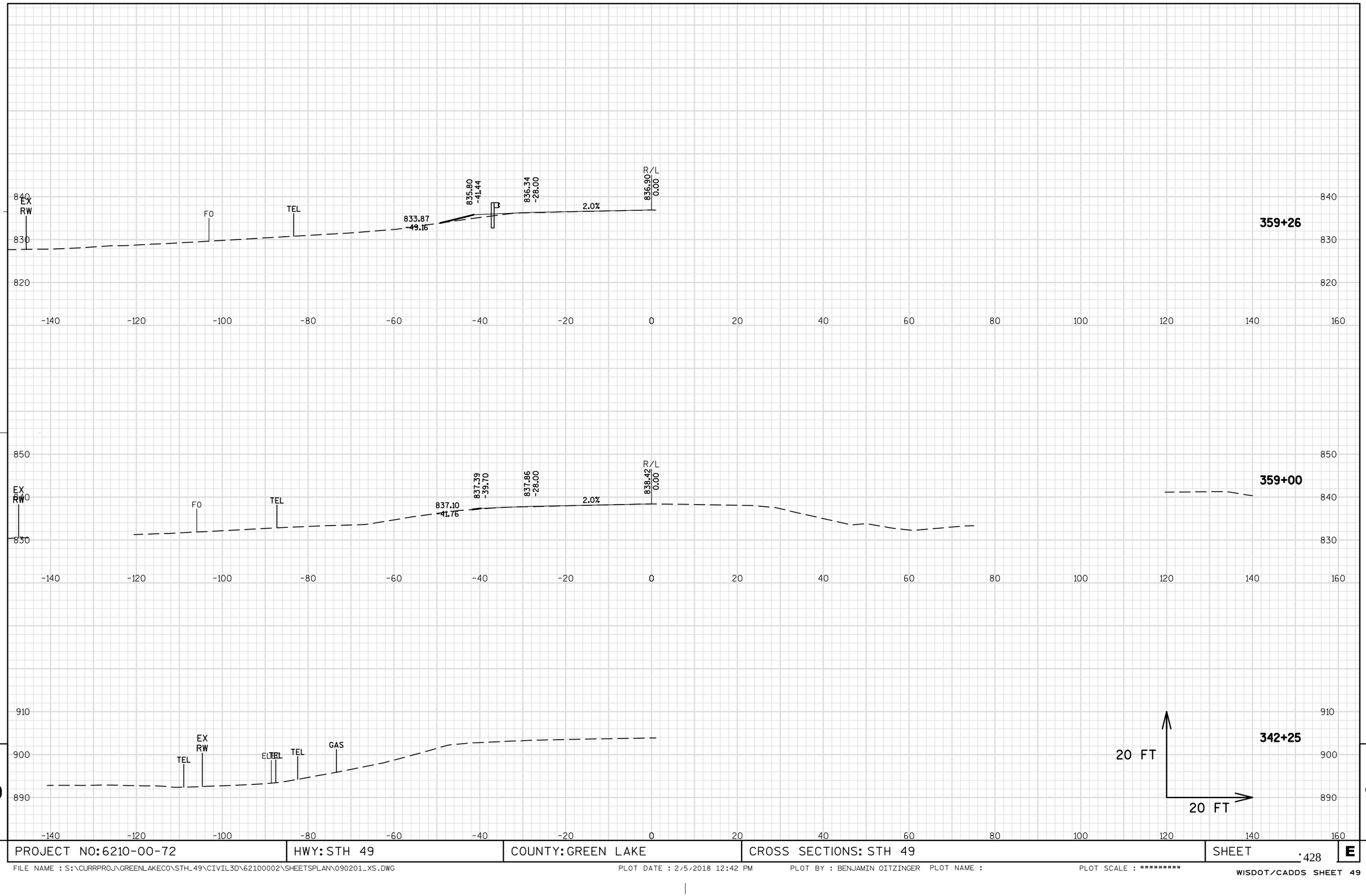
WISDOT/CADDS SHEET 49



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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 427	E



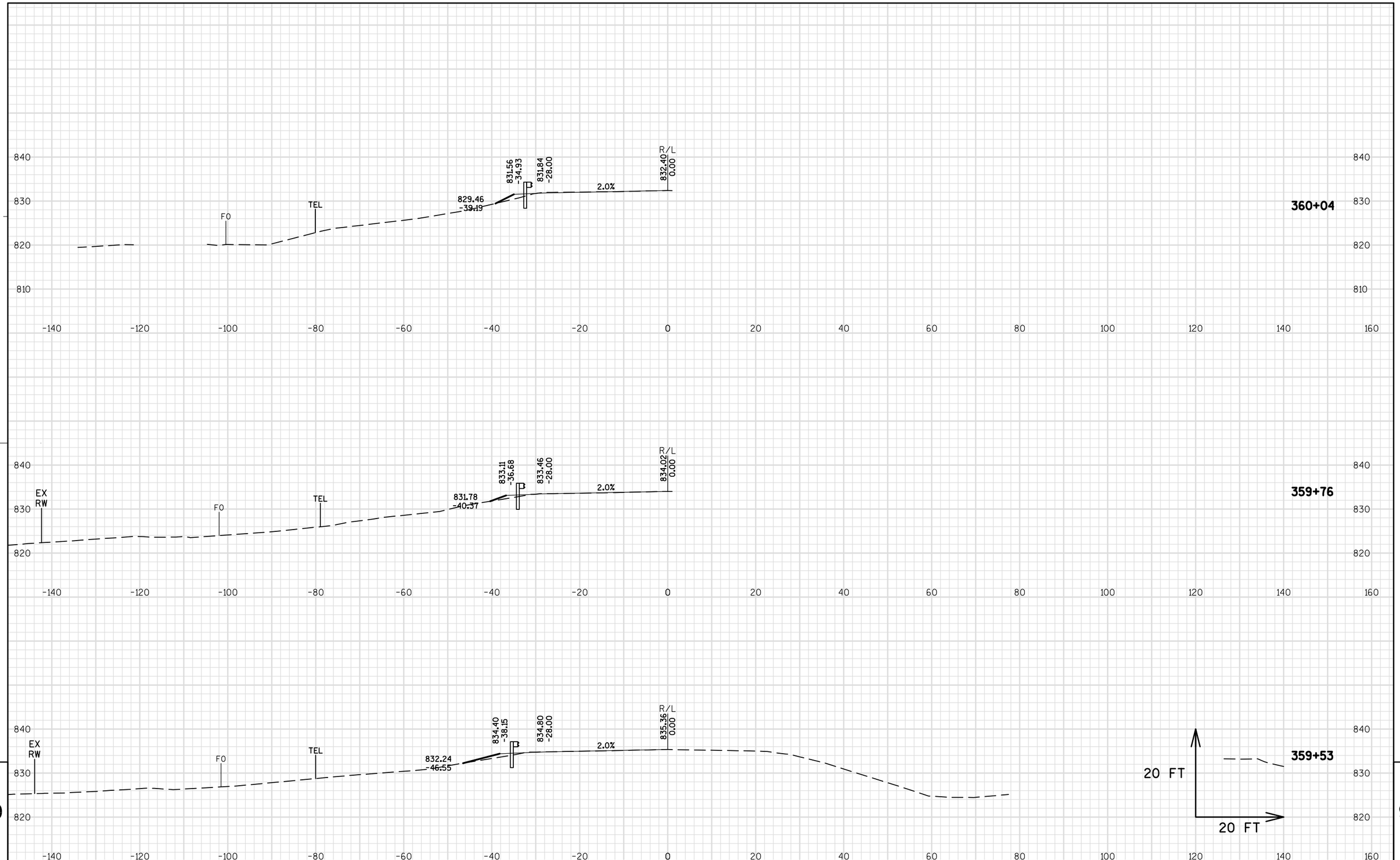
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 428	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:42 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

WISDOT/CADDS SHEET 49



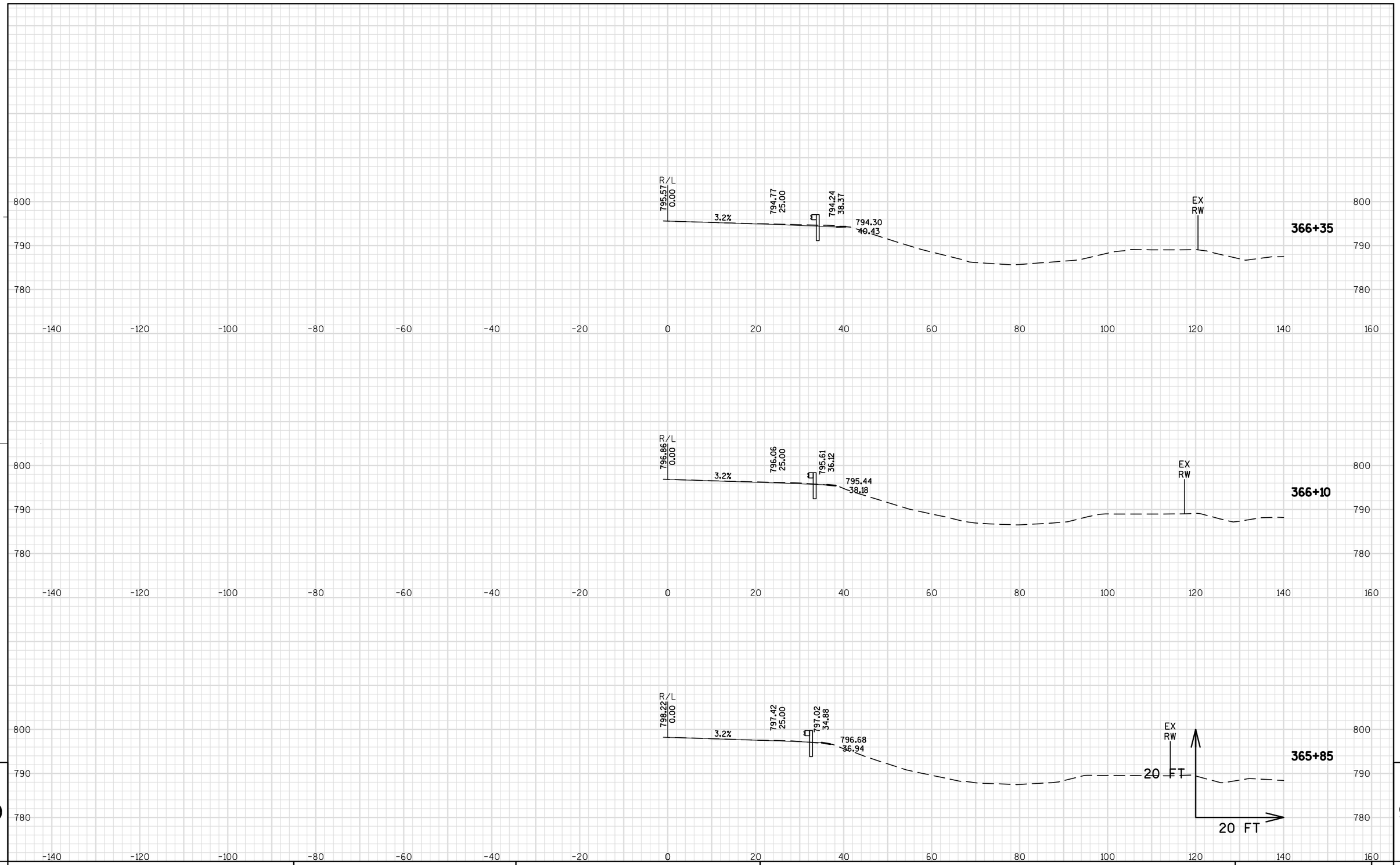
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 429	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:42 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 49



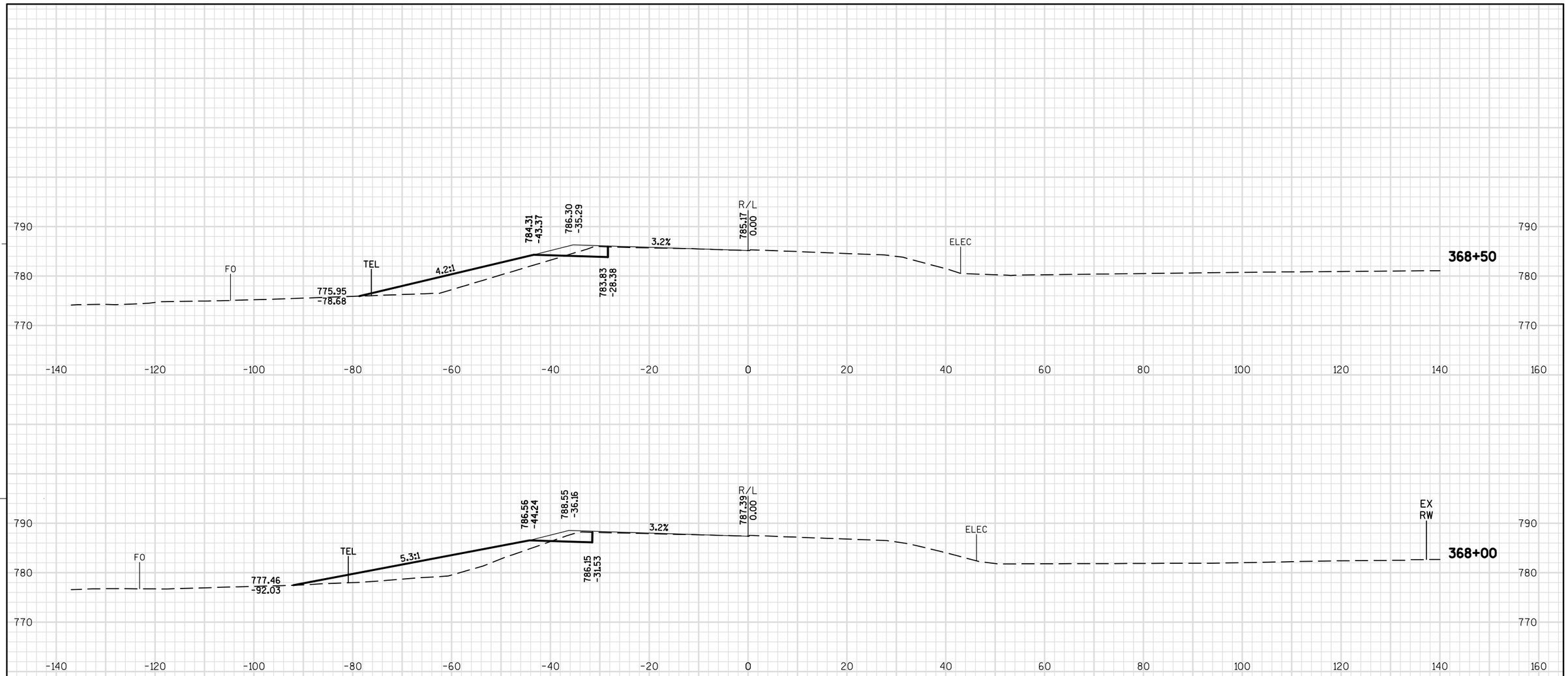
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 430	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:42 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

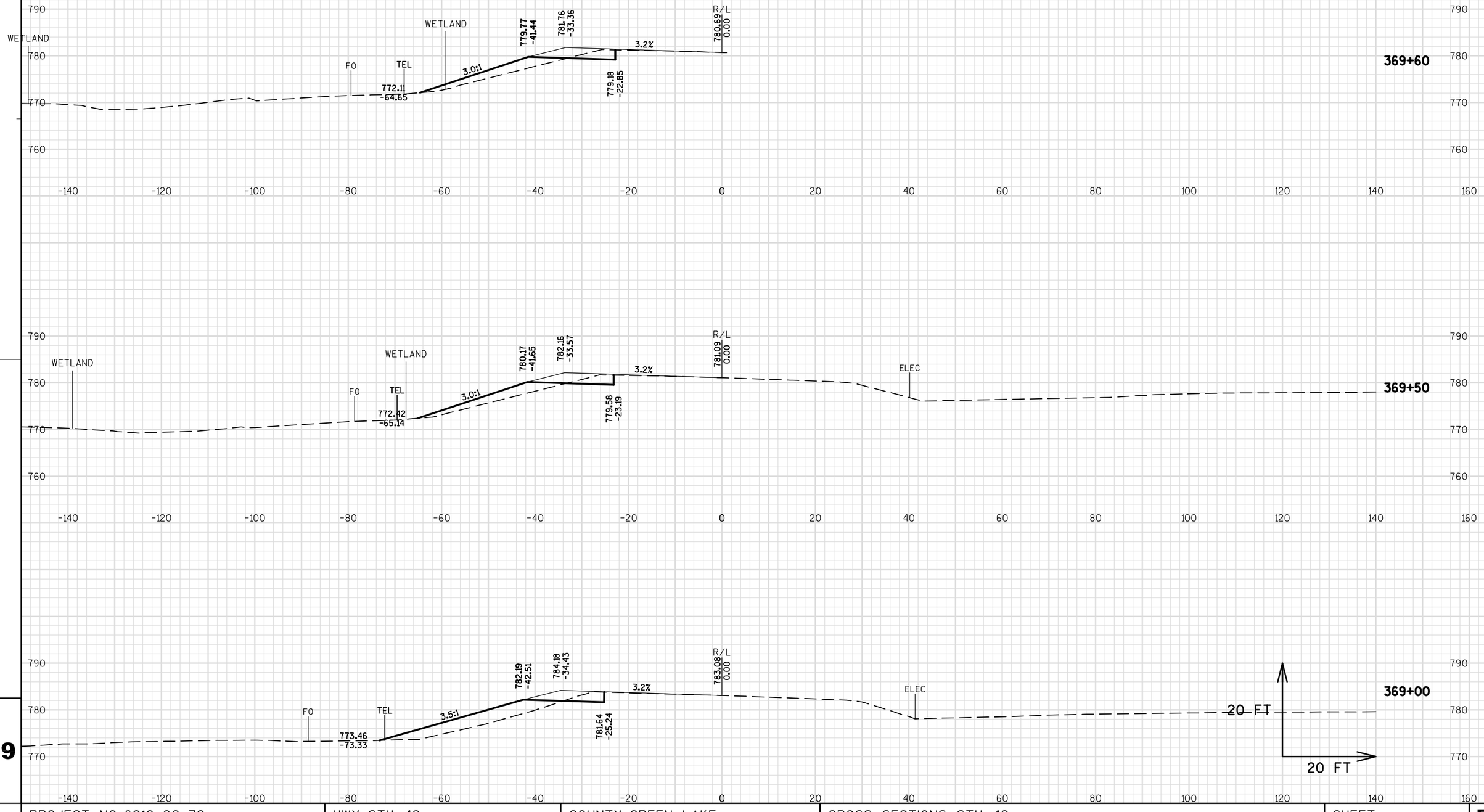
WISDOT/CADDS SHEET 49



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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 431	E

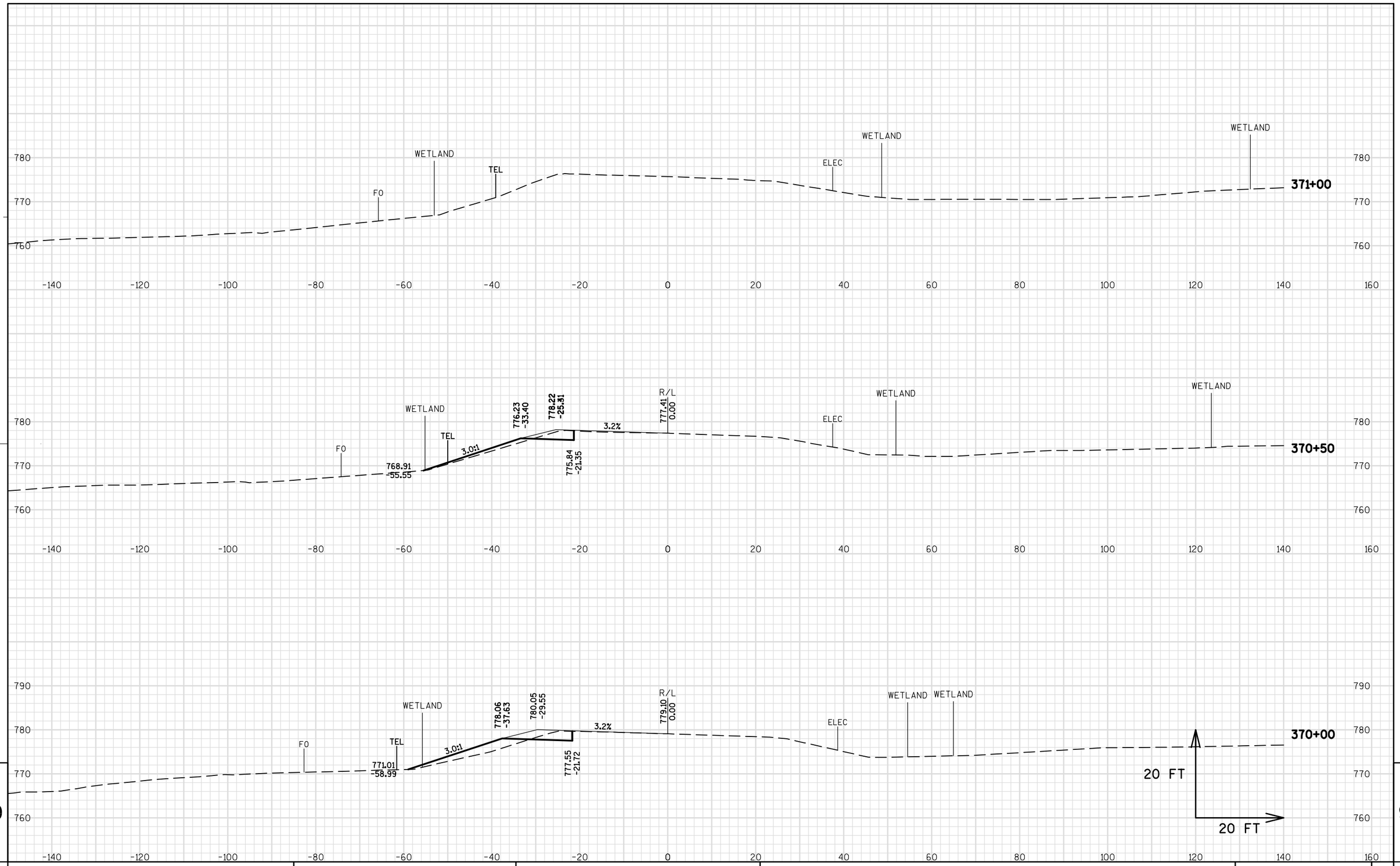


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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 432	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:42 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********
WISDOT/CADDS SHEET 49



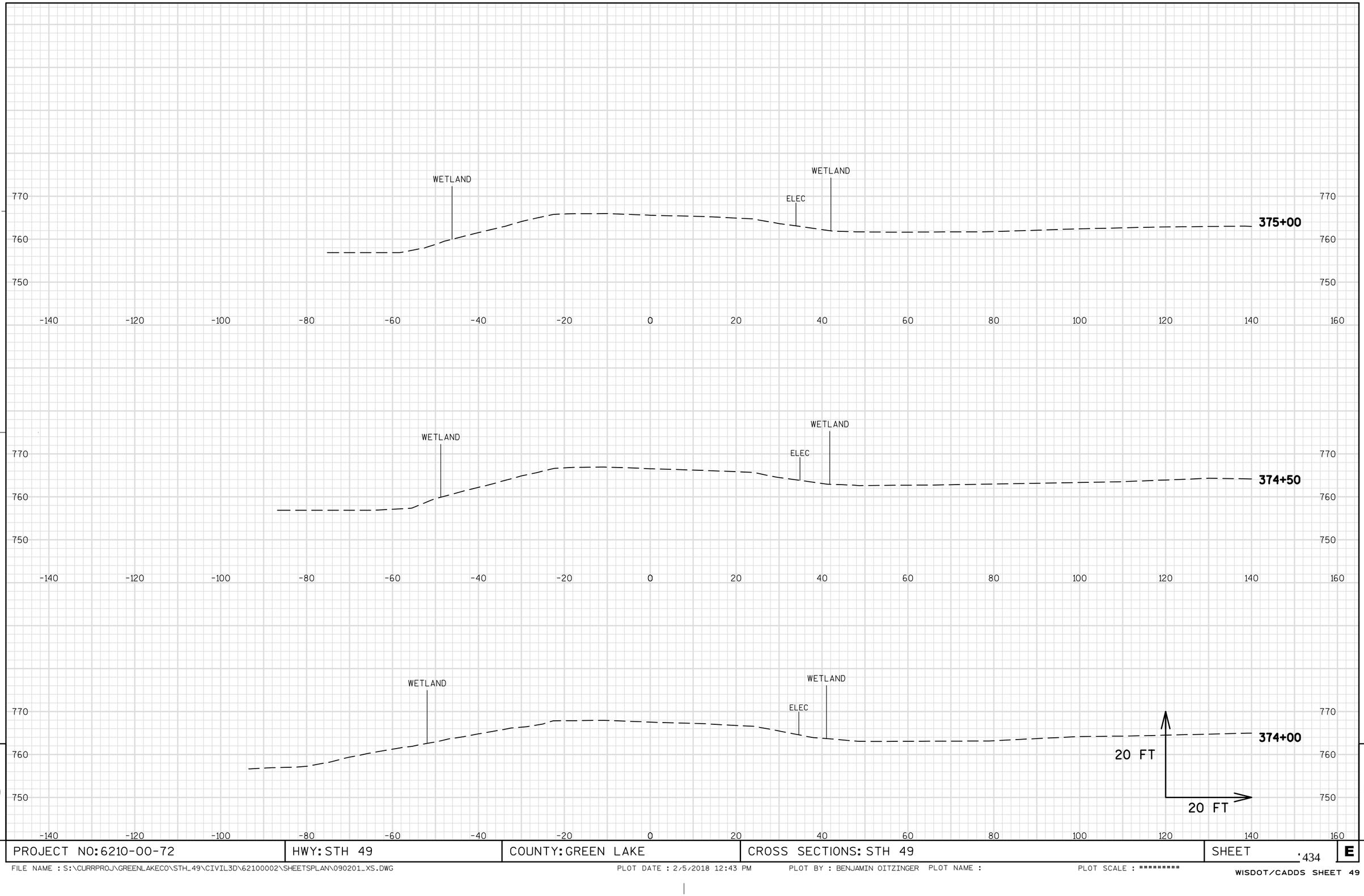
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 433	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:43 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

WISDOT/CADDS SHEET 49



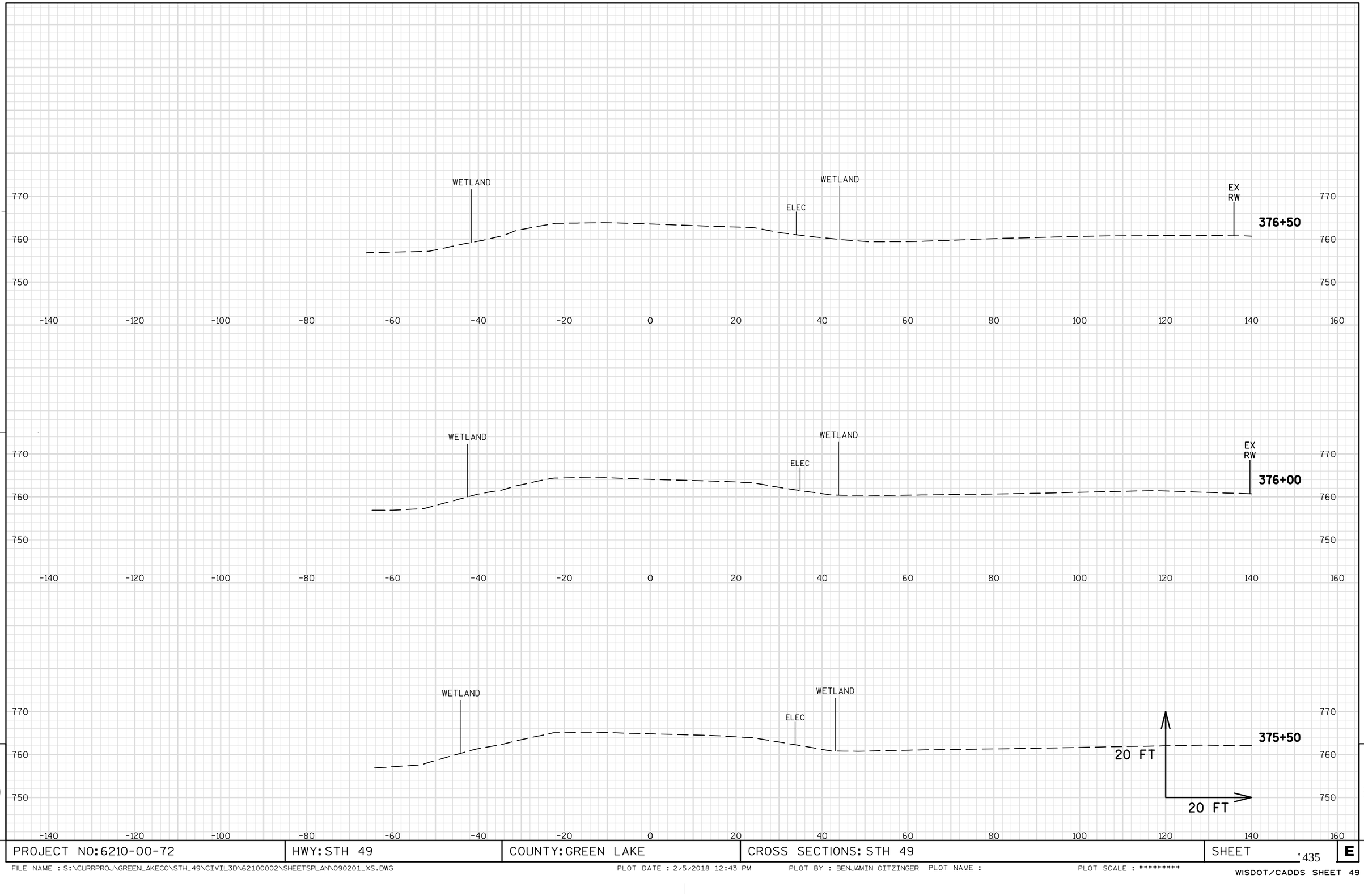
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 434	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:43 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 49



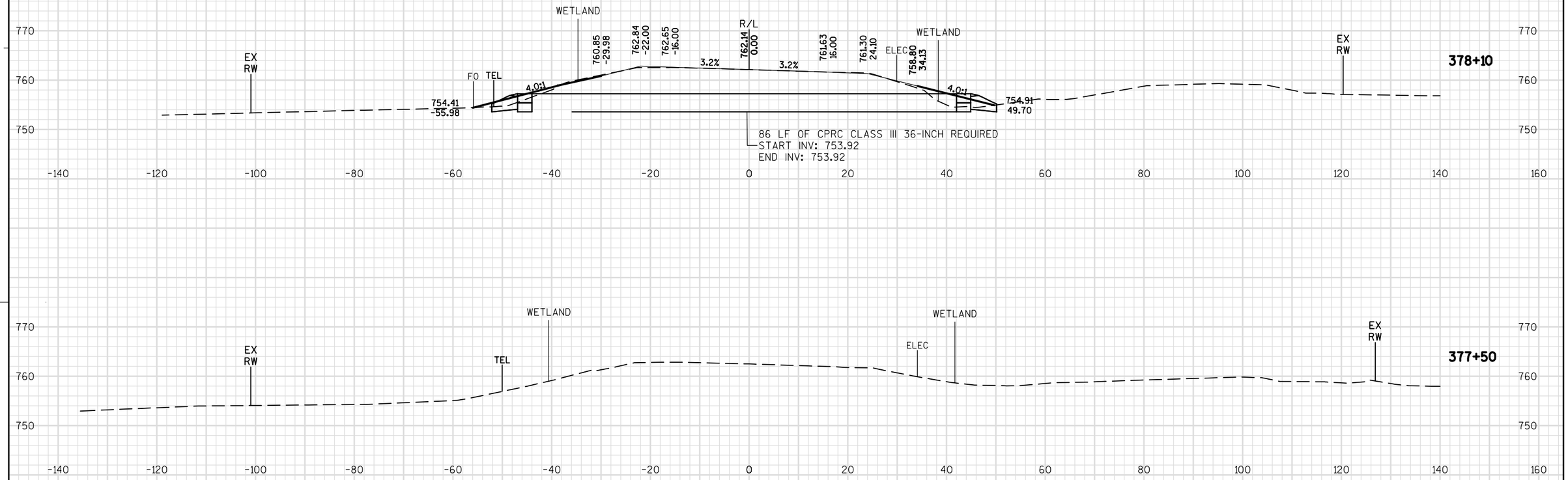
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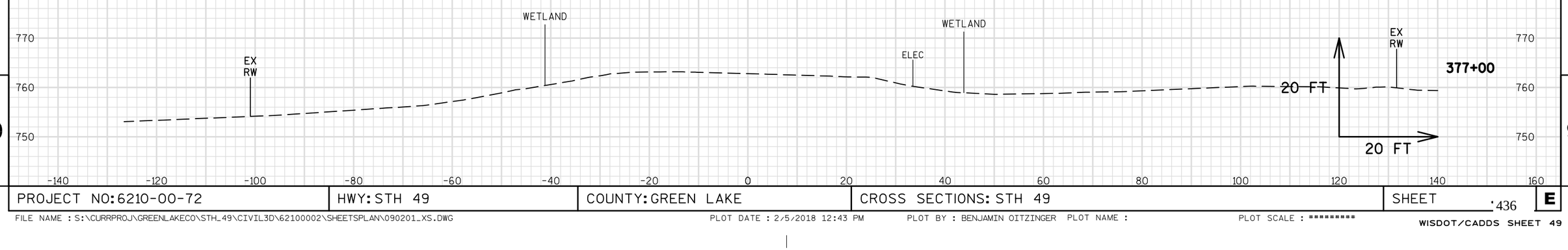
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 435	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:43 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 49



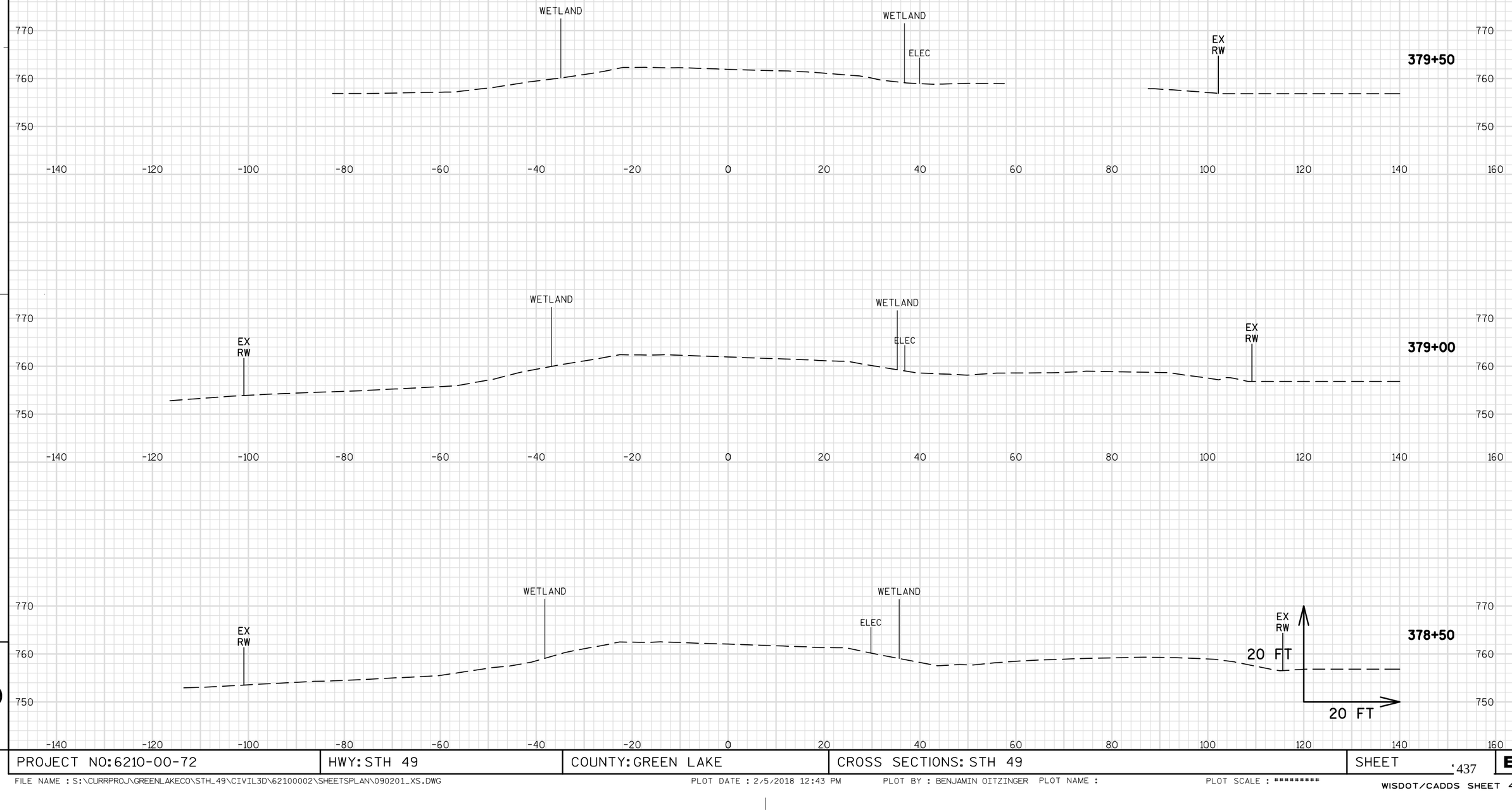


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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 436	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG
PLOT DATE : 2/5/2018 12:43 PM
PLOT BY : BENJAMIN OITZINGER
PLOT NAME :
PLOT SCALE : *********
WISDOT/CADDS SHEET 49



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9

PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 437	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG
PLOT DATE : 2/5/2018 12:43 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : **********
WISDOT/CADDS SHEET 49

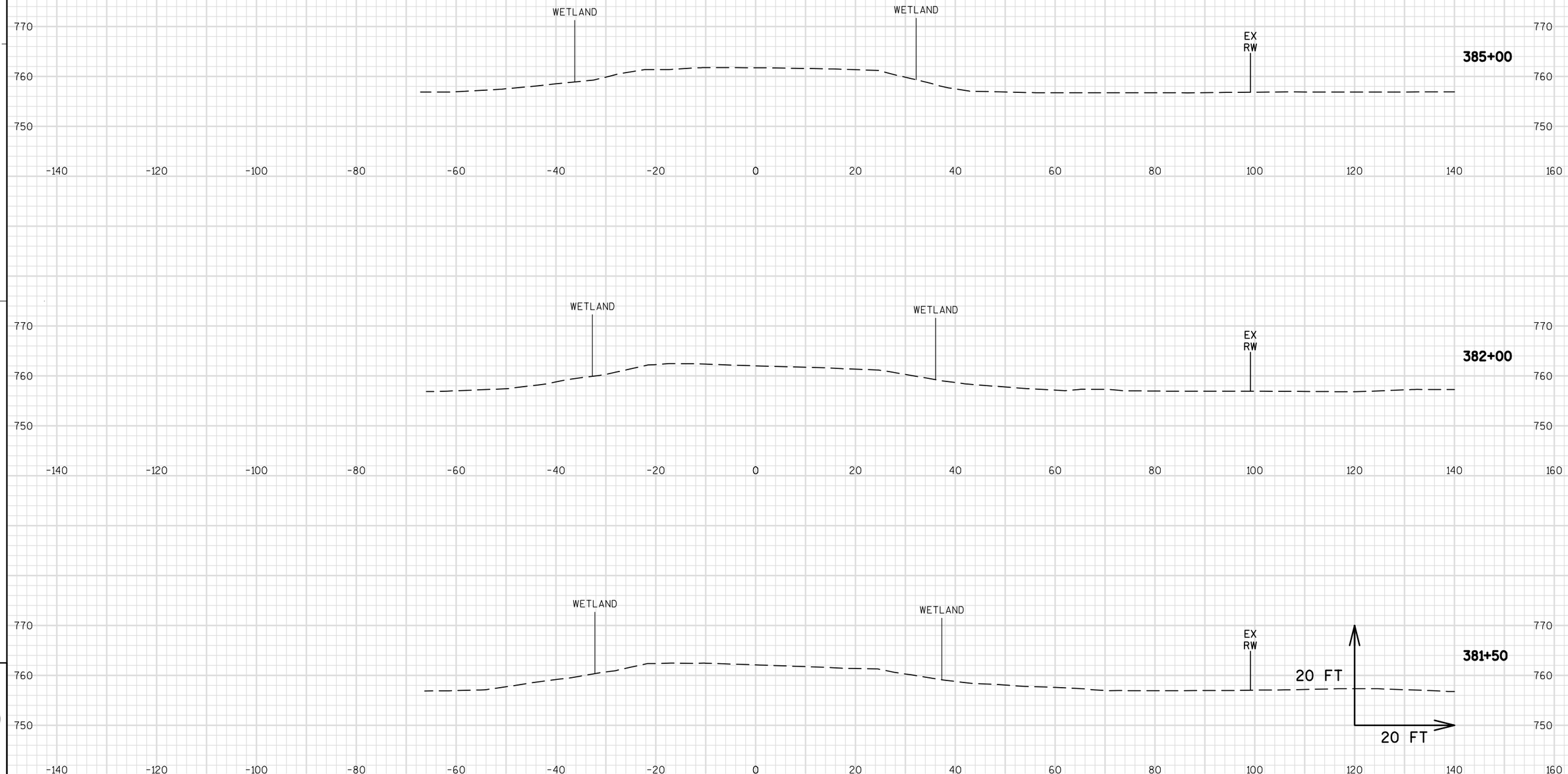


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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 438	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:43 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : ********** WISDOT/CADDS SHEET 49



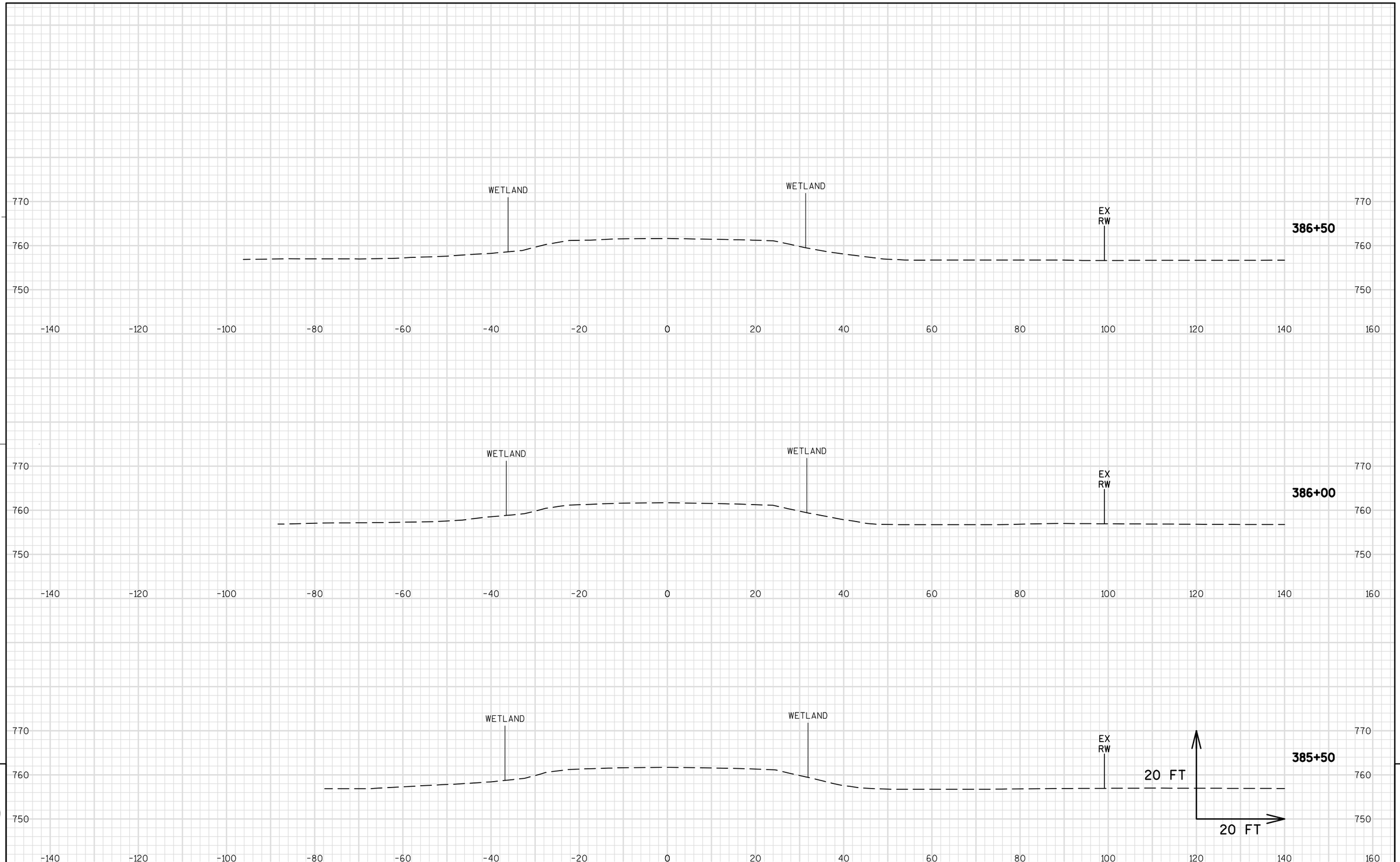
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 439	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:43 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : **********

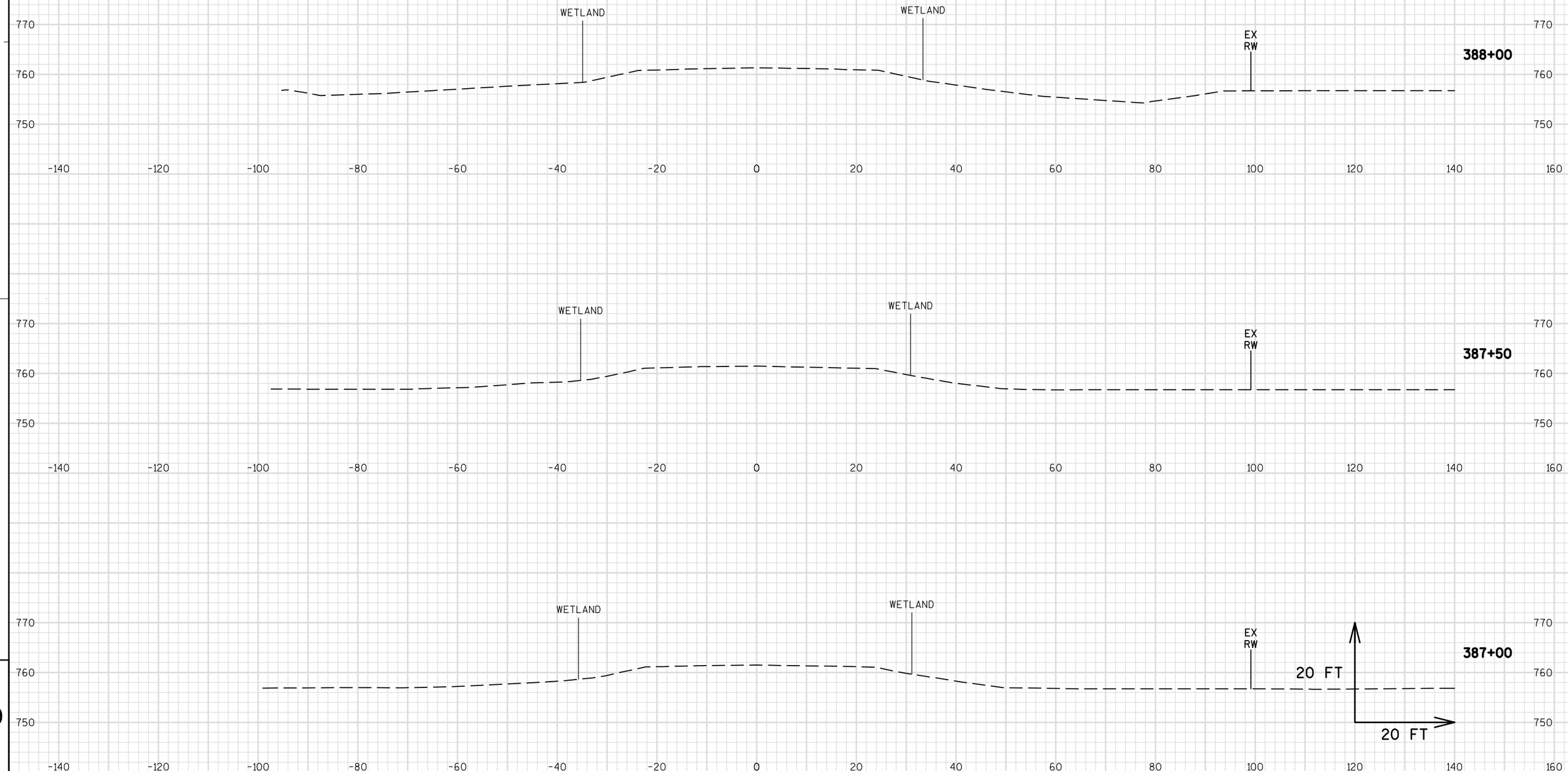
WISDOT/CADDS SHEET 49



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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 440	E

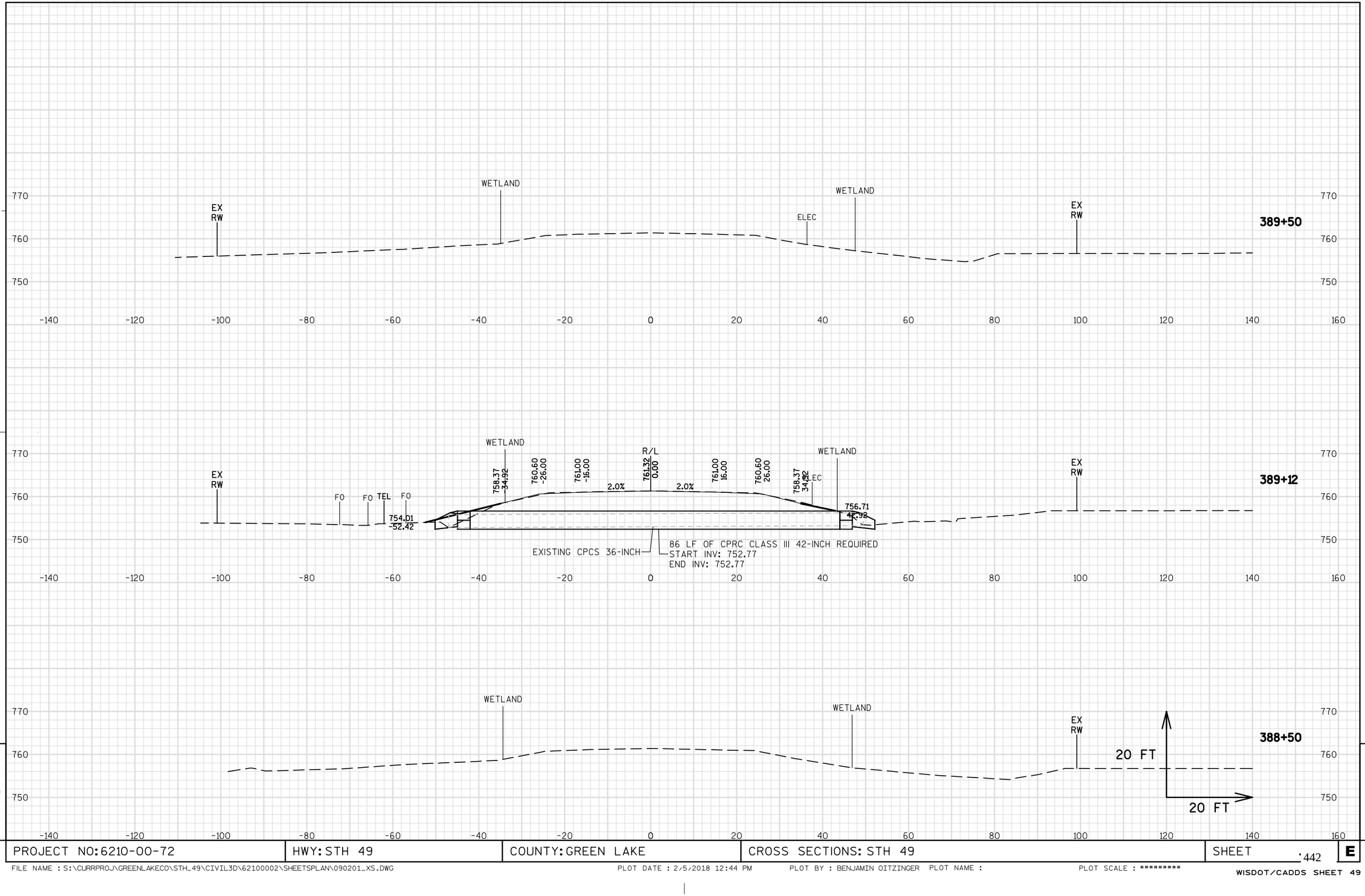


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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 441	E

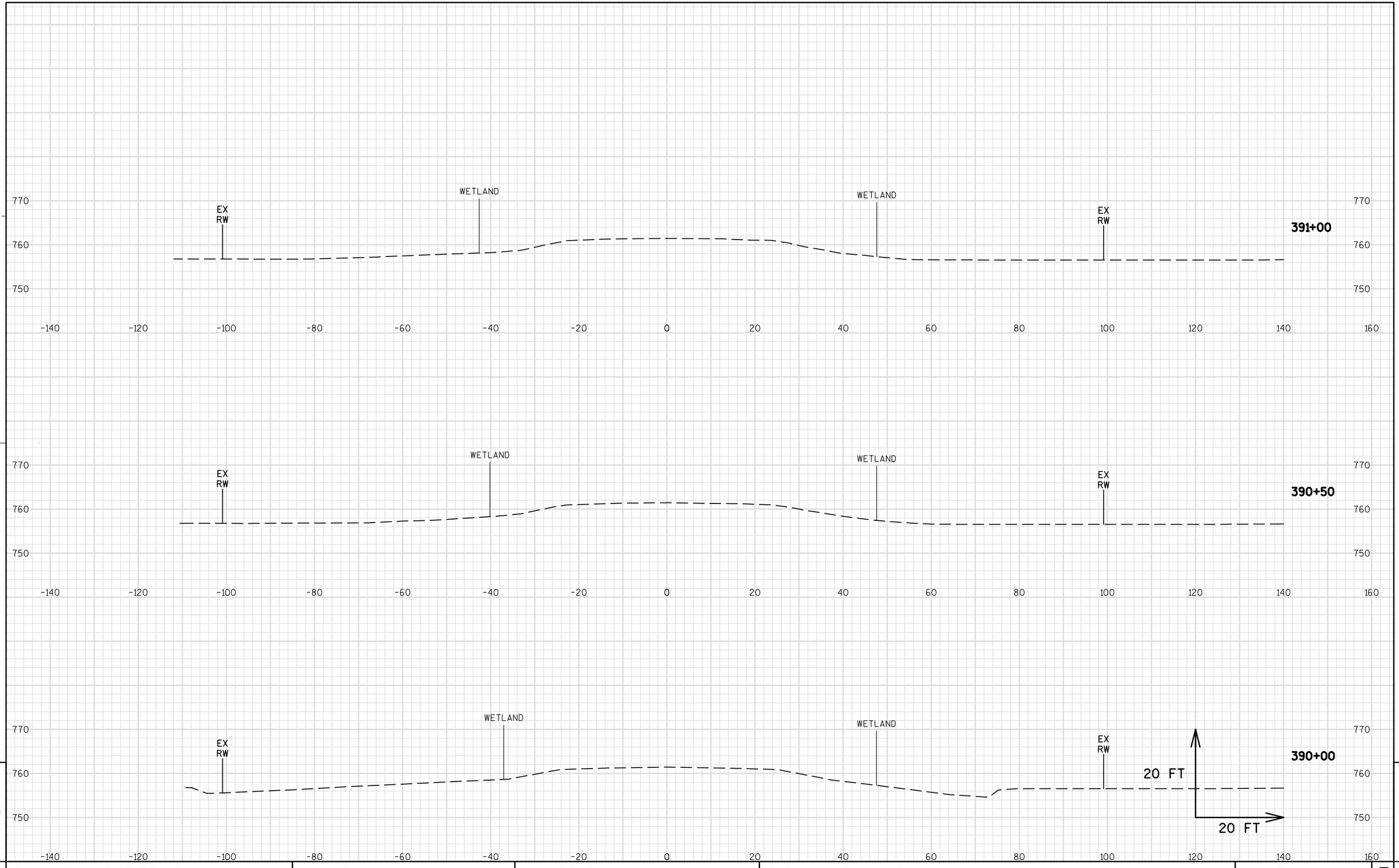
FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:44 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : ********** WISDOT/CADDS SHEET 49



PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 442

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:44 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

WISDOT/CADDS SHEET 49



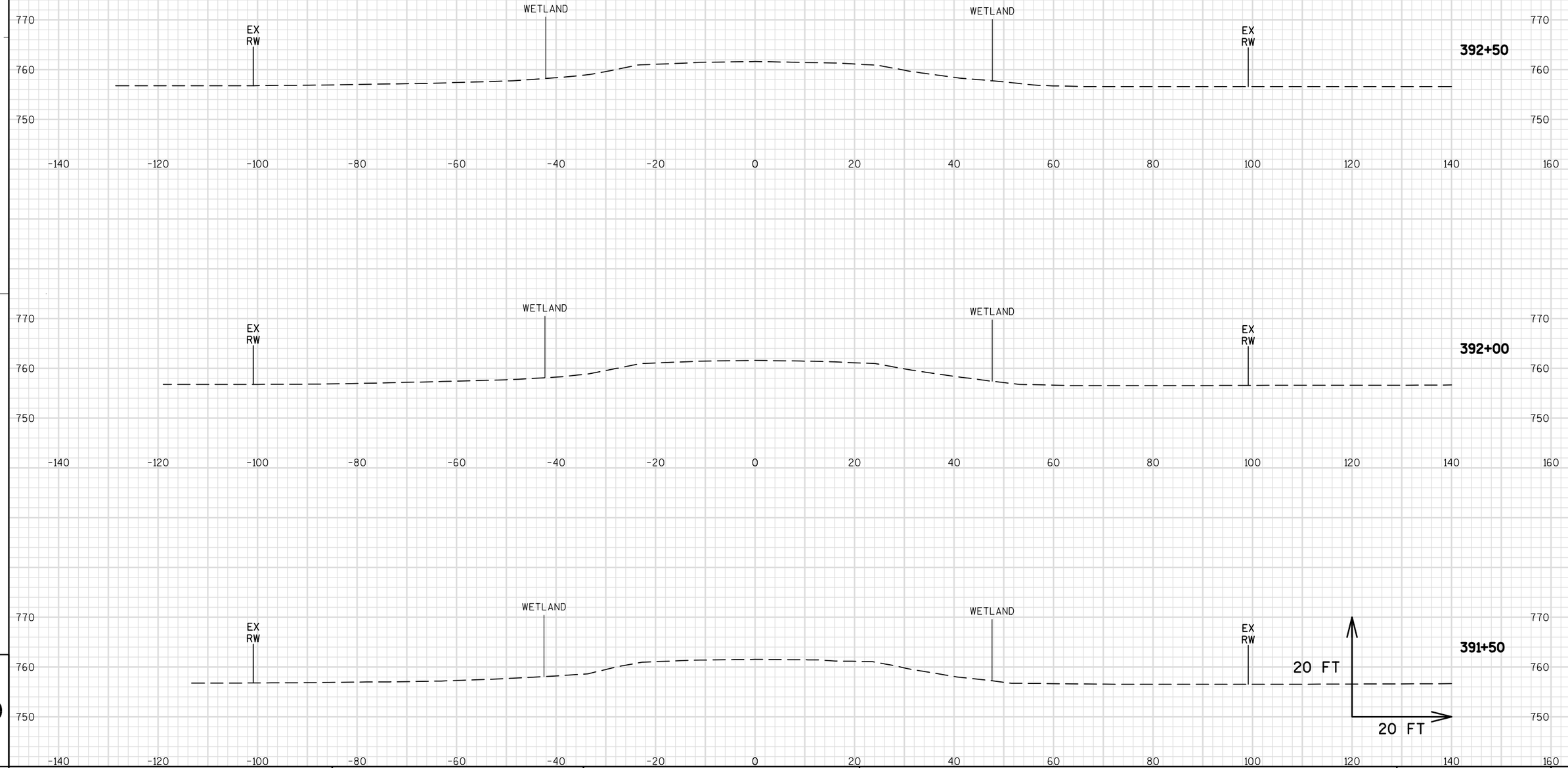
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 443	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:44 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 49



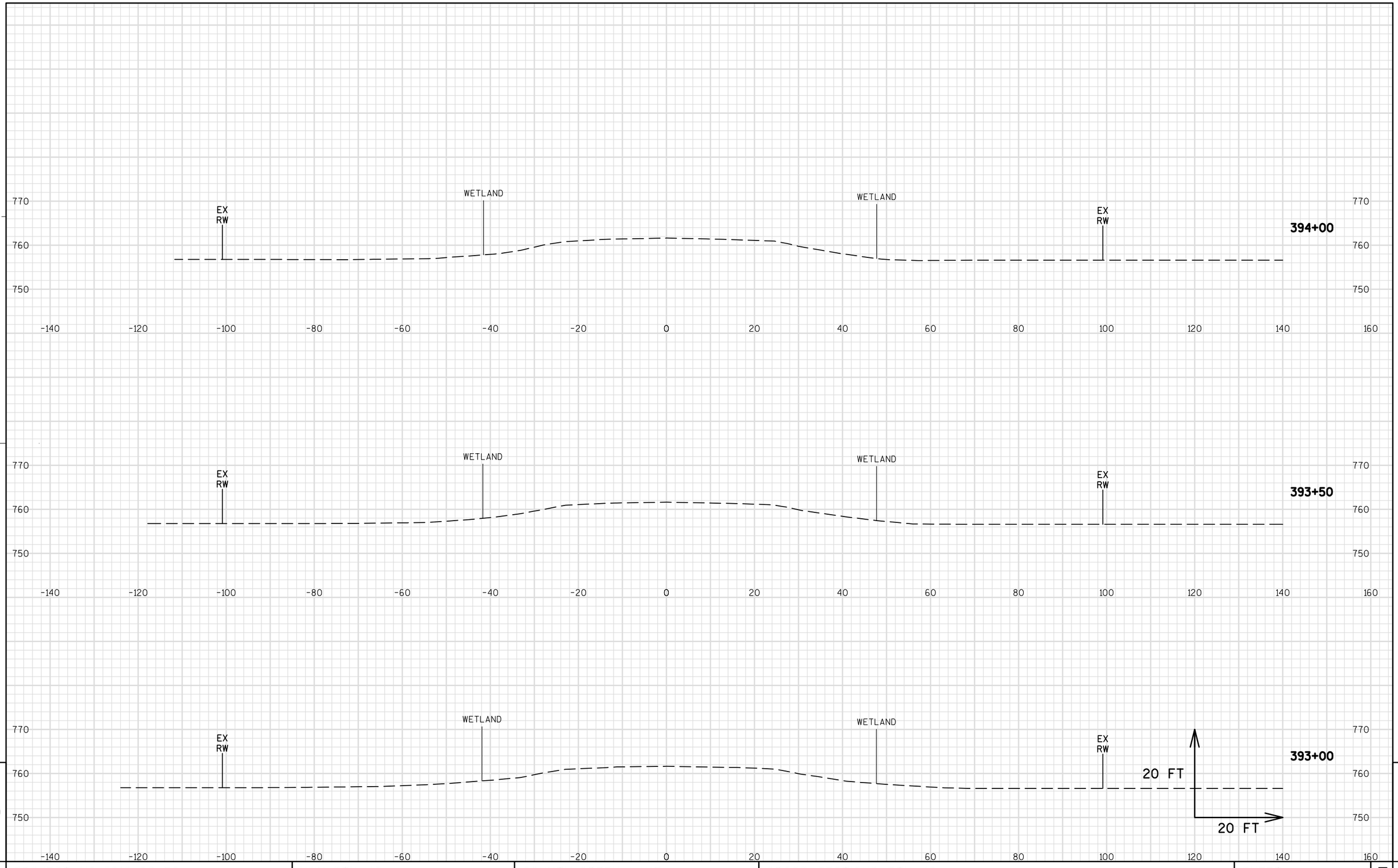
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 444	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:44 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

WISDOT/CADDS SHEET 49



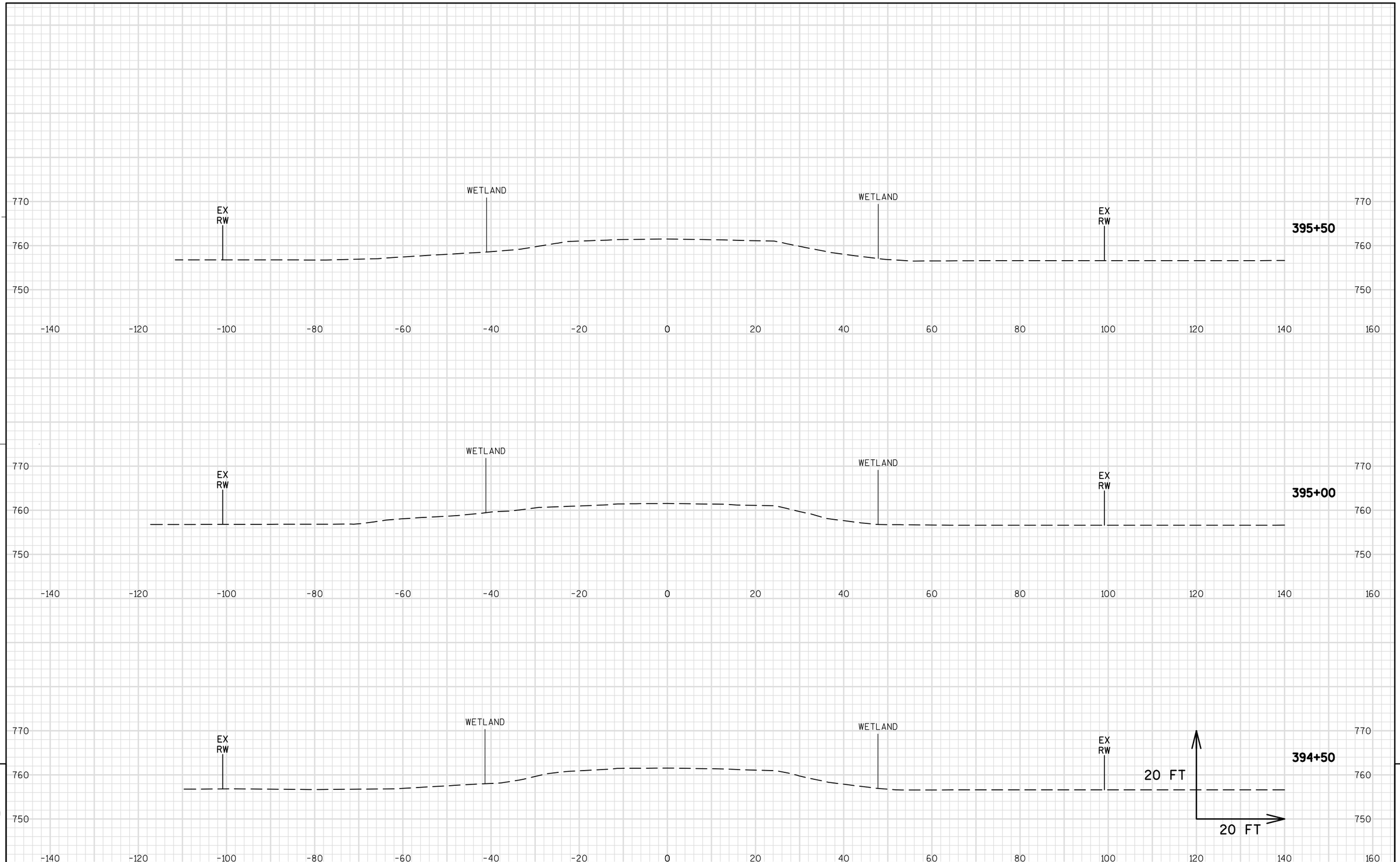
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 445	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:44 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

WISDOT/CADDS SHEET 49

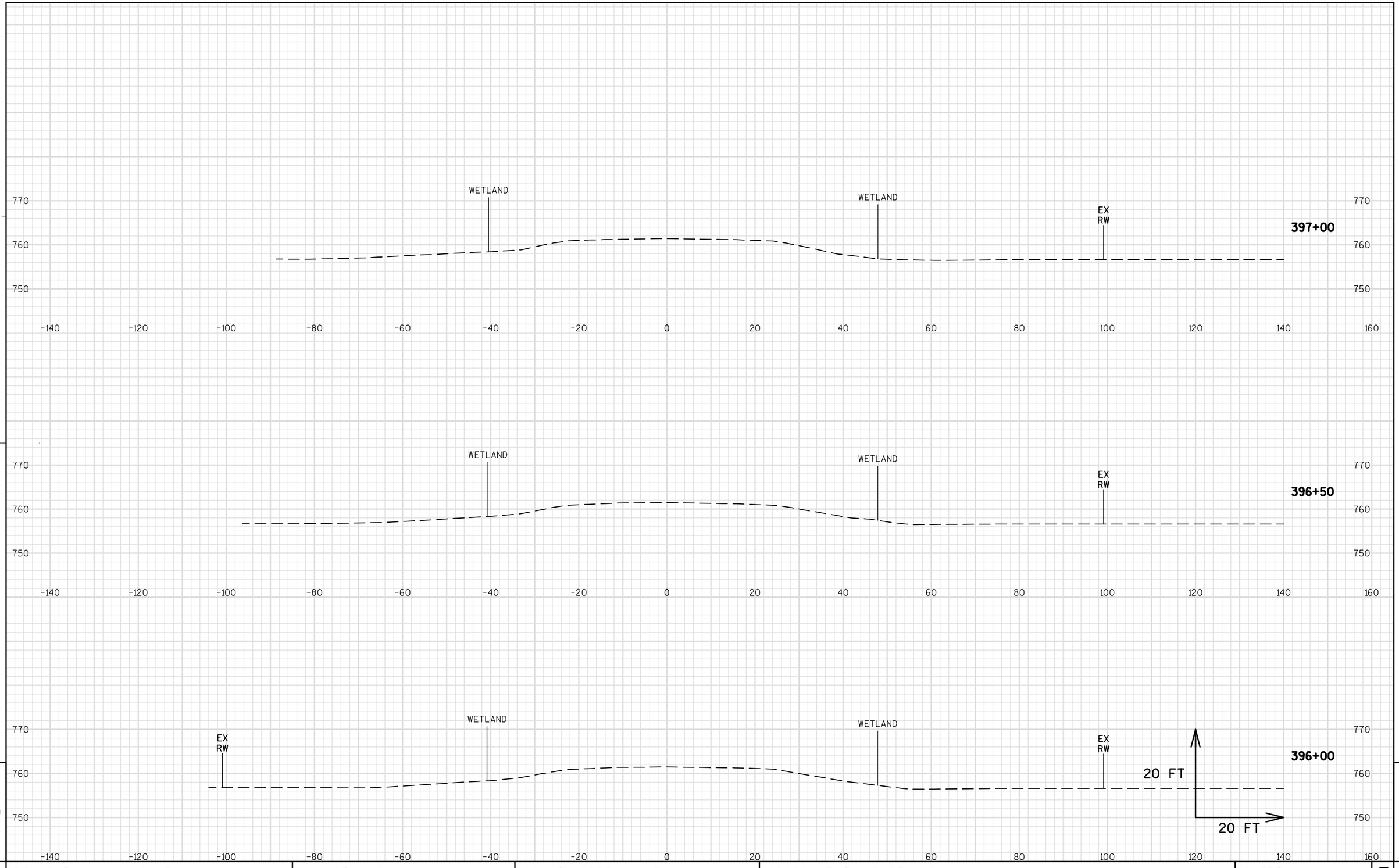


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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 446	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:44 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : ********* WISDOT/CADDS SHEET 49



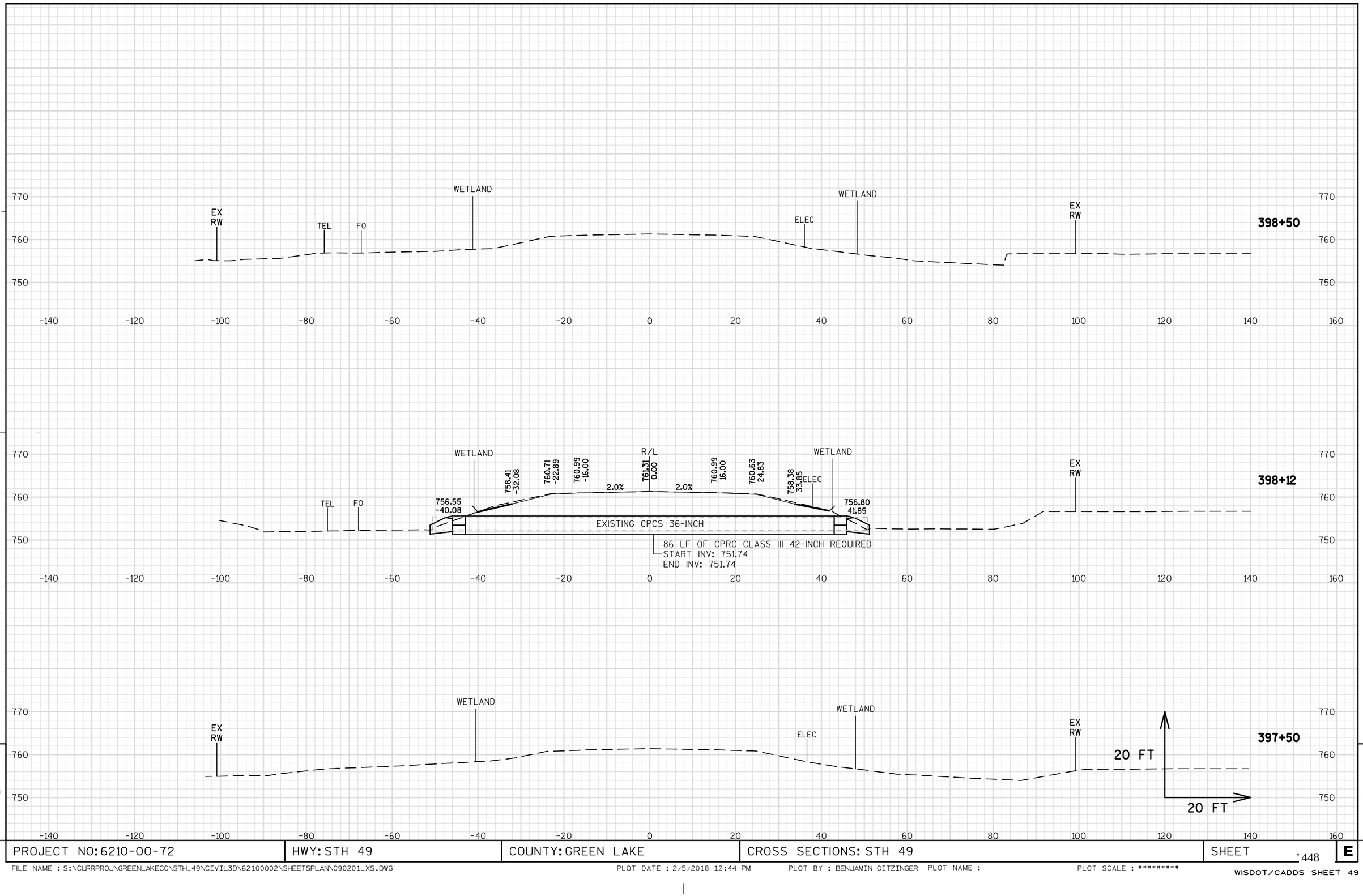
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 447	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:44 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

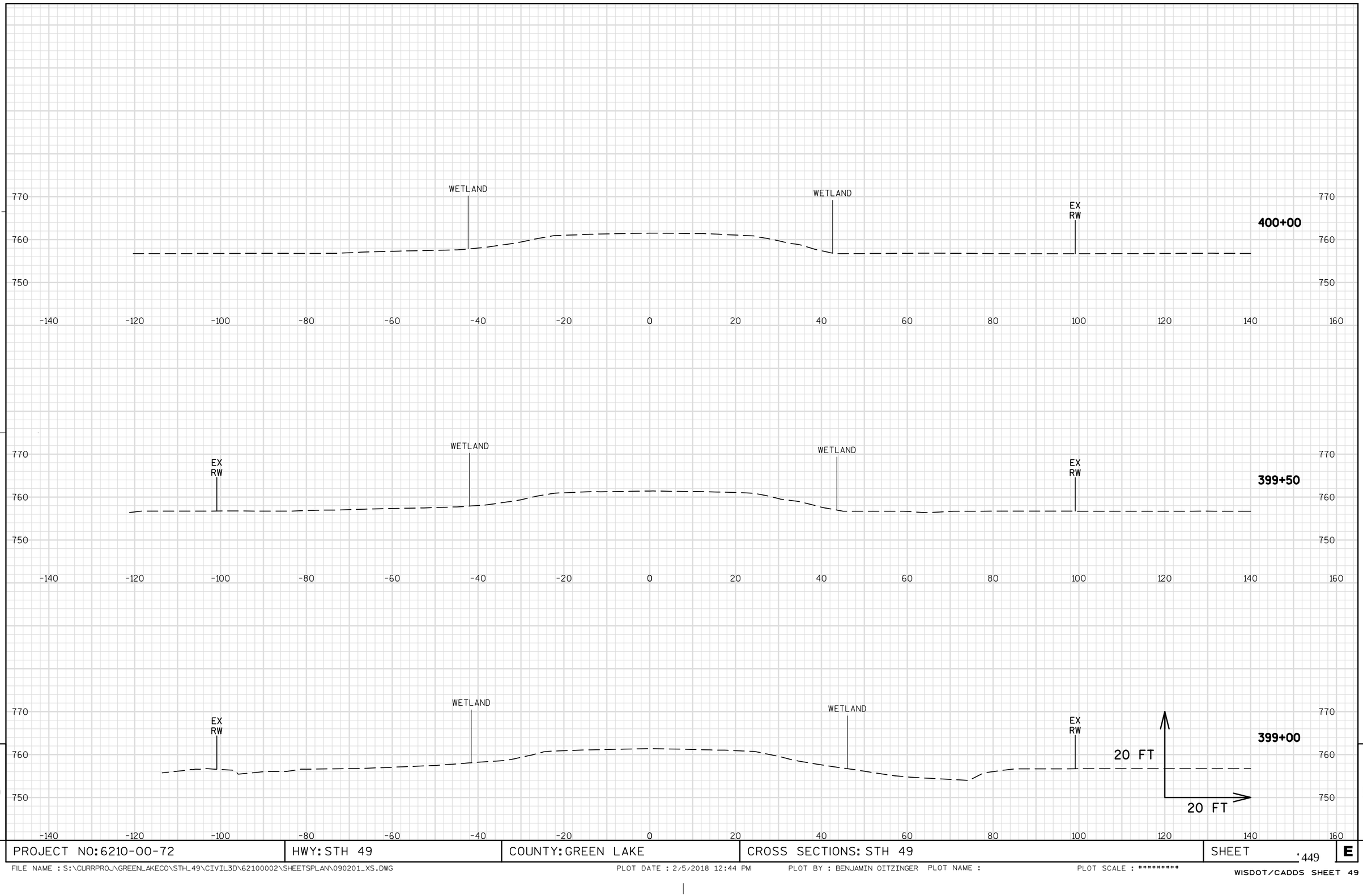
WISDOT/CADDS SHEET 49



PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 448	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:44 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

WISDOT/CADDS SHEET 49

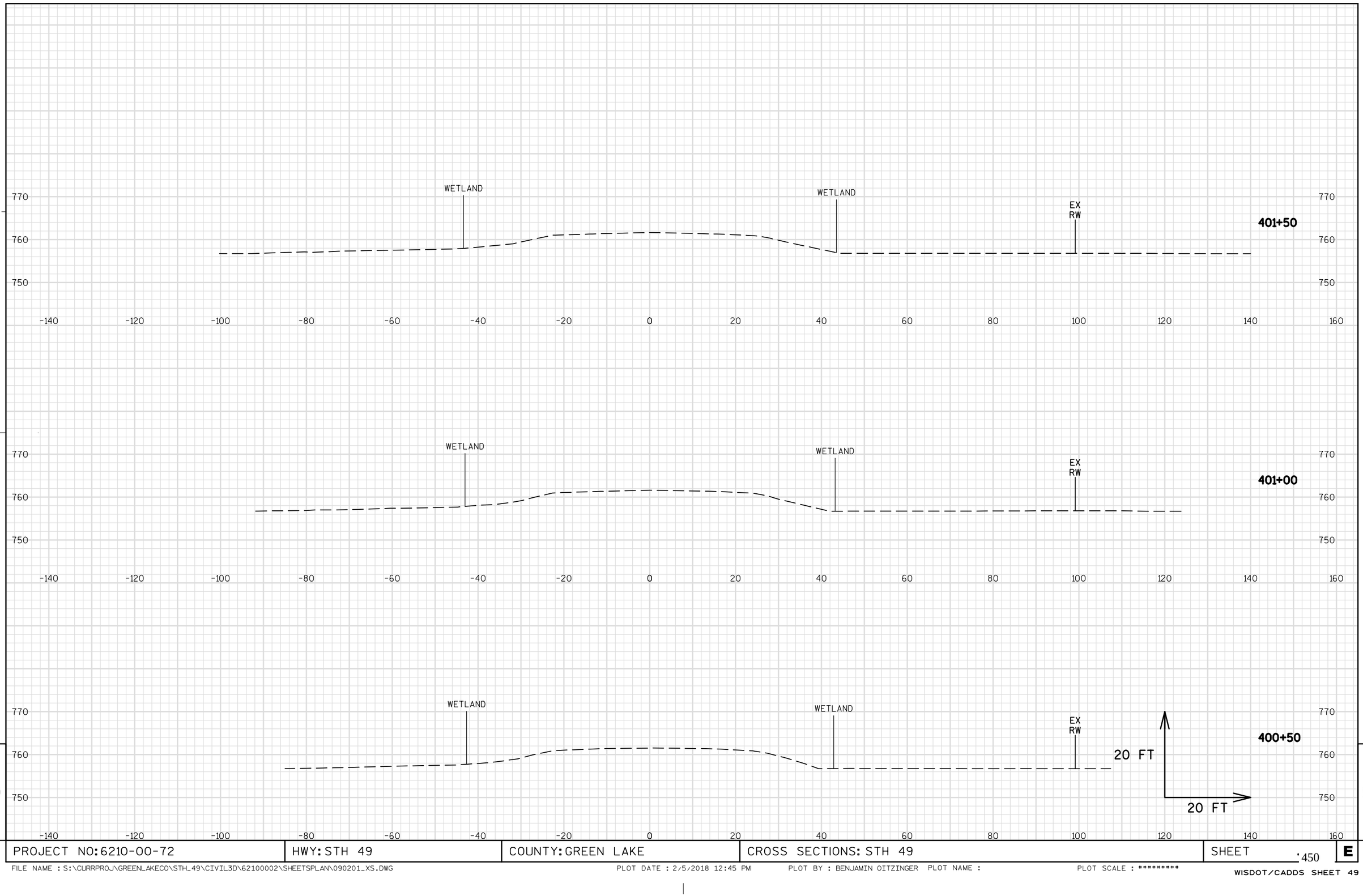


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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 449	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG
PLOT DATE : 2/5/2018 12:44 PM
PLOT BY : BENJAMIN OITZINGER
PLOT NAME :
PLOT SCALE : *********
WISDOT/CADDS SHEET 49



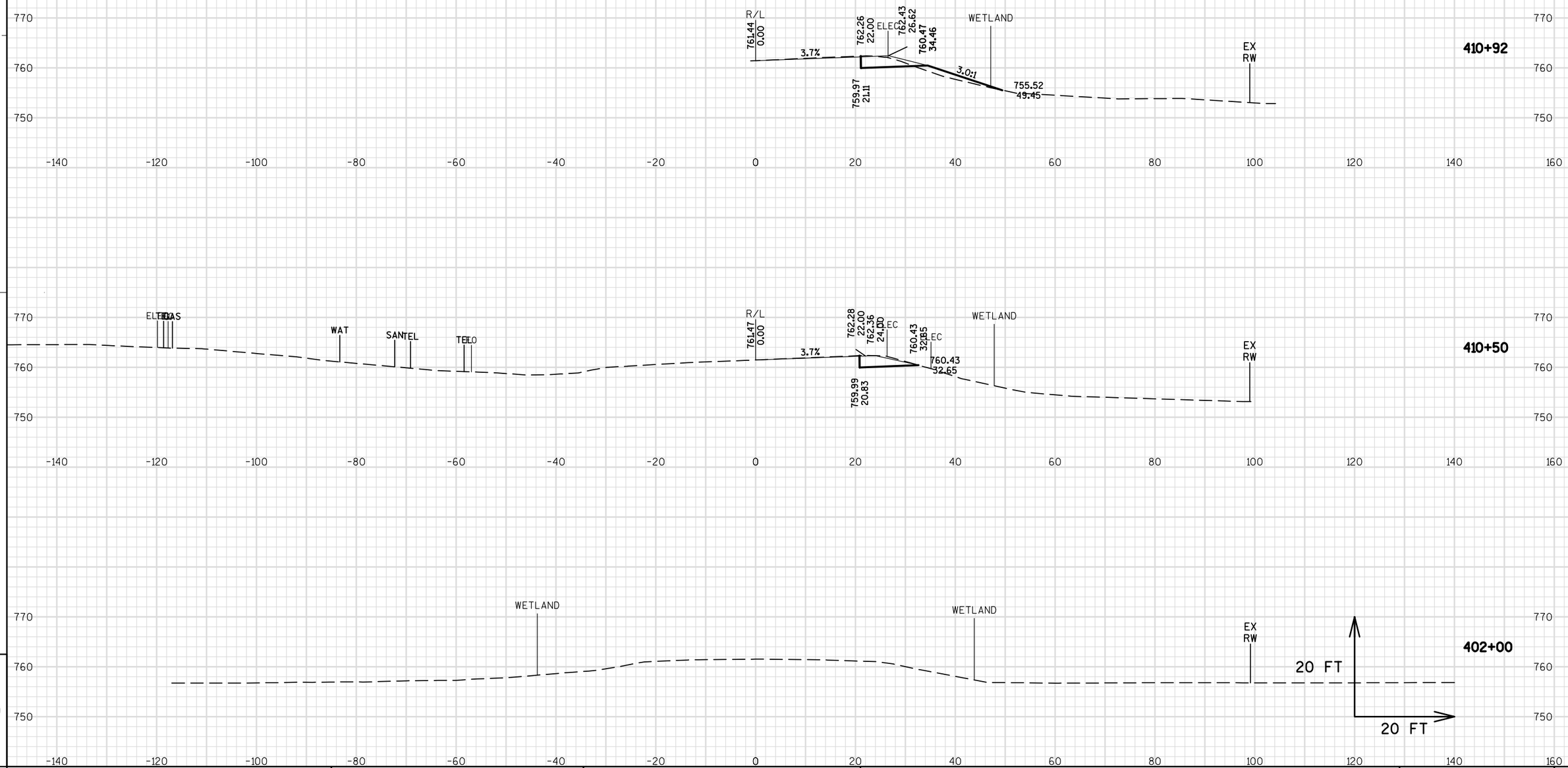
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 450	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:45 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

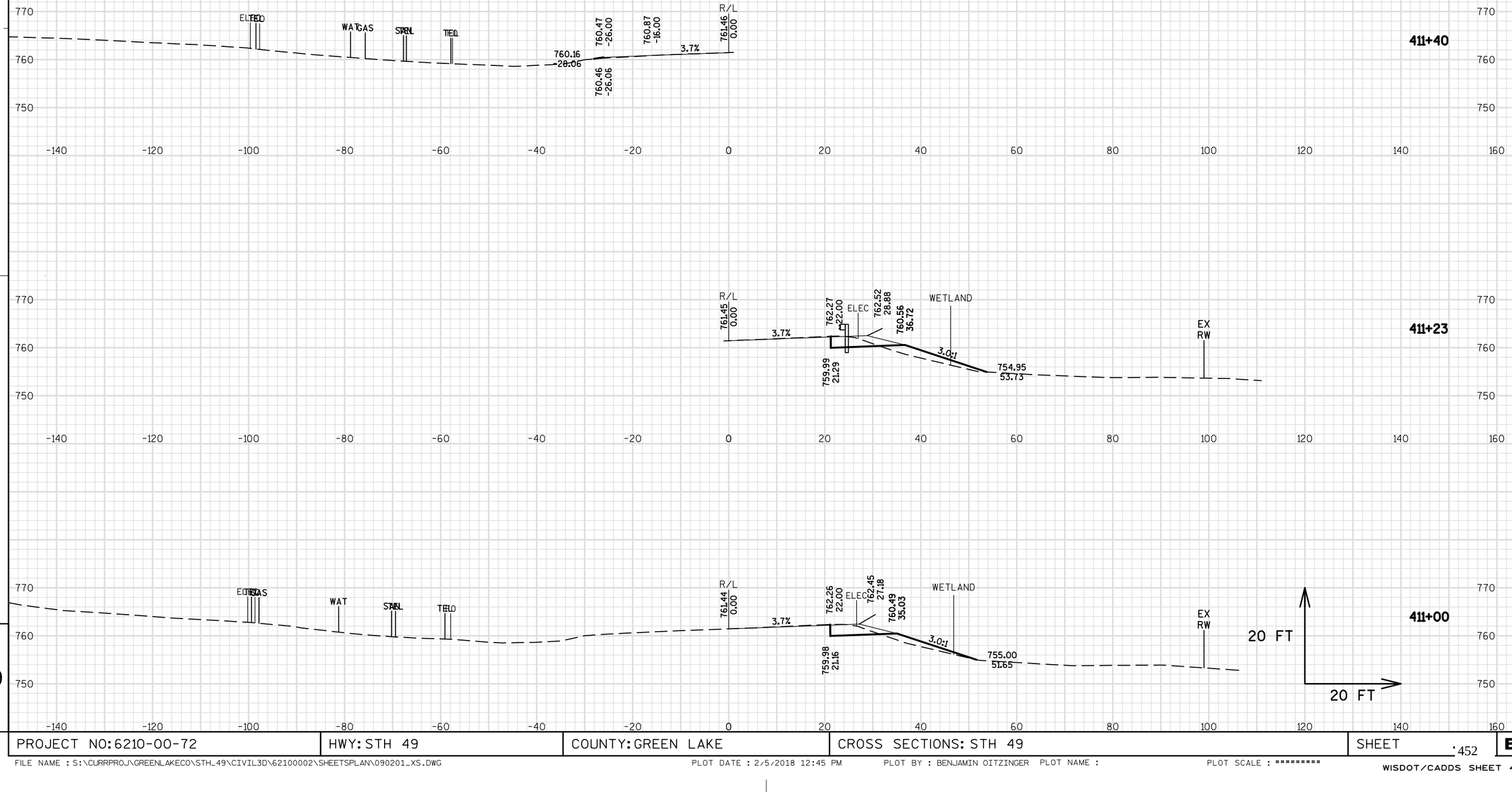
WISDOT/CADDS SHEET 49



PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 451	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:45 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

WISDOT/CADDS SHEET 49



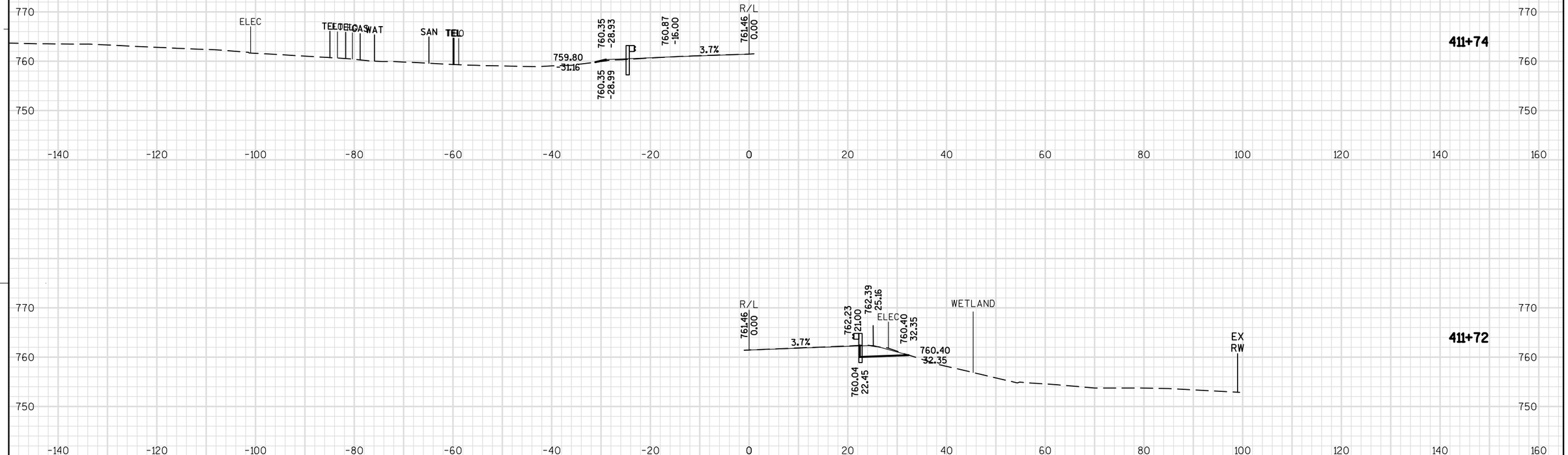
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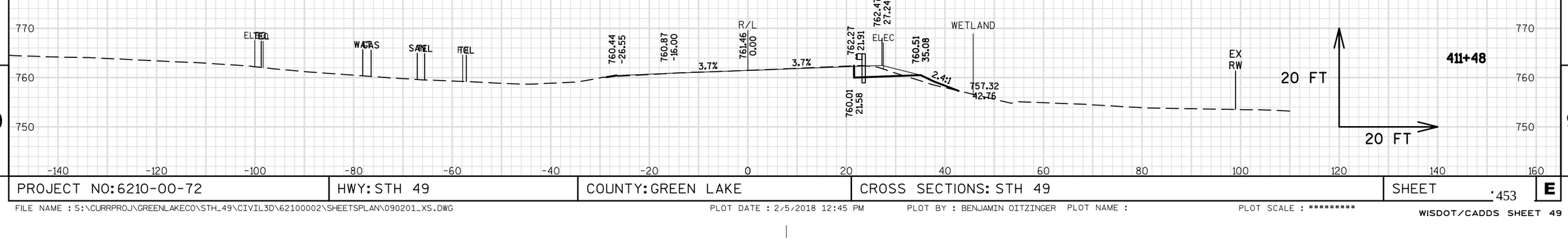
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 452	E

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WISDOT/CADDS SHEET 49

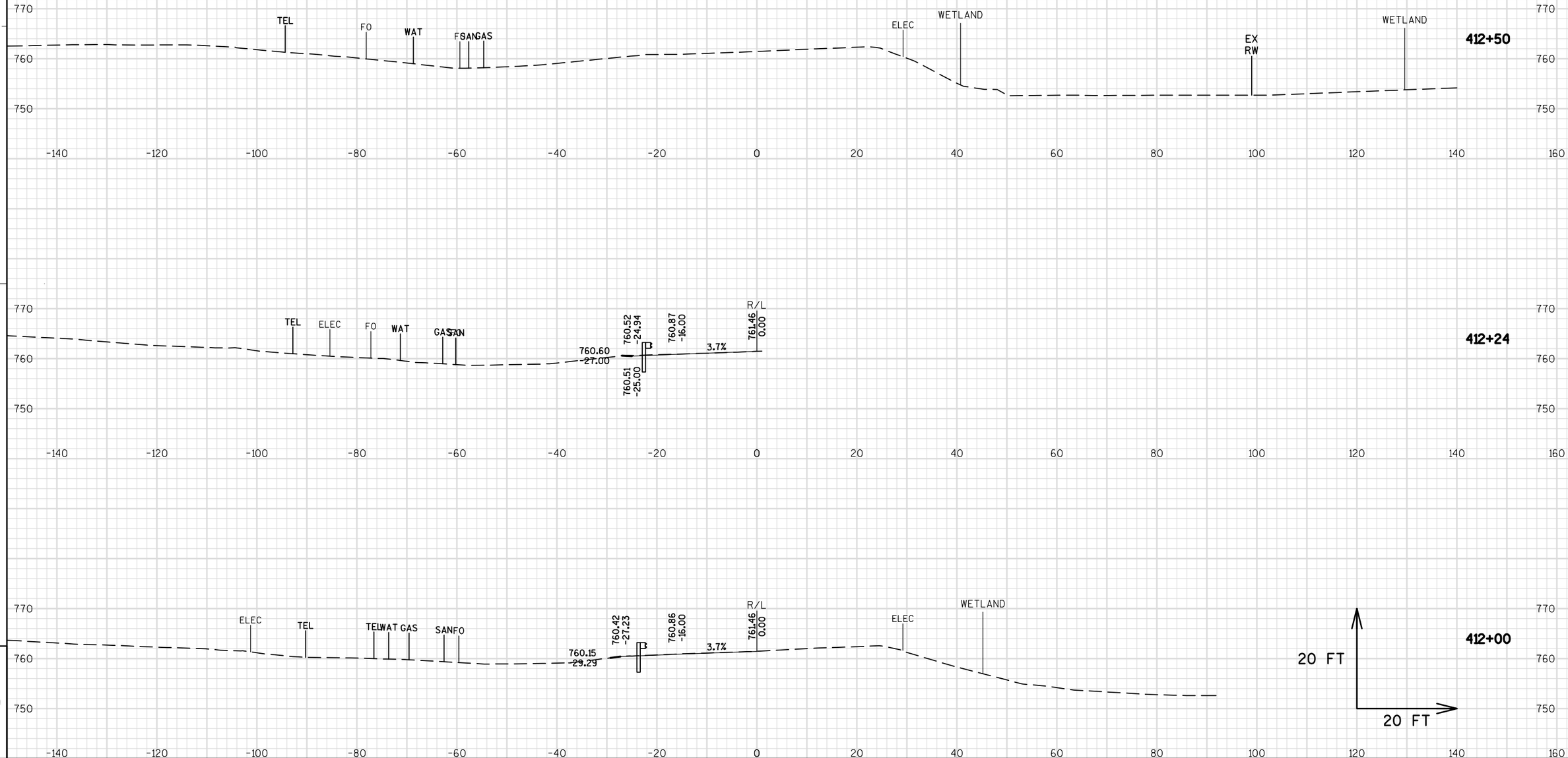




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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 453	E

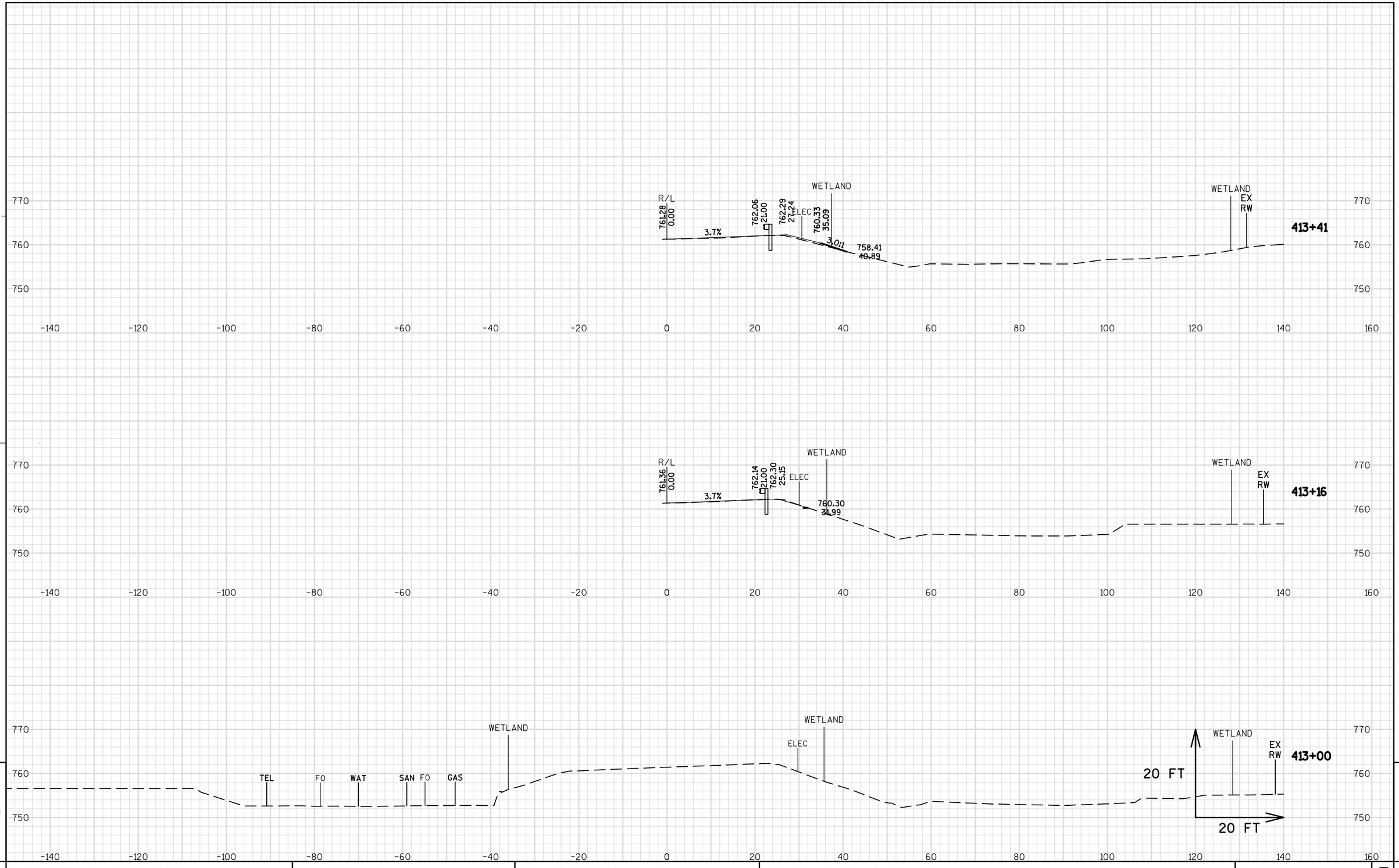


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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 454	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:45 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : ********* WISDOT/CADDS SHEET 49



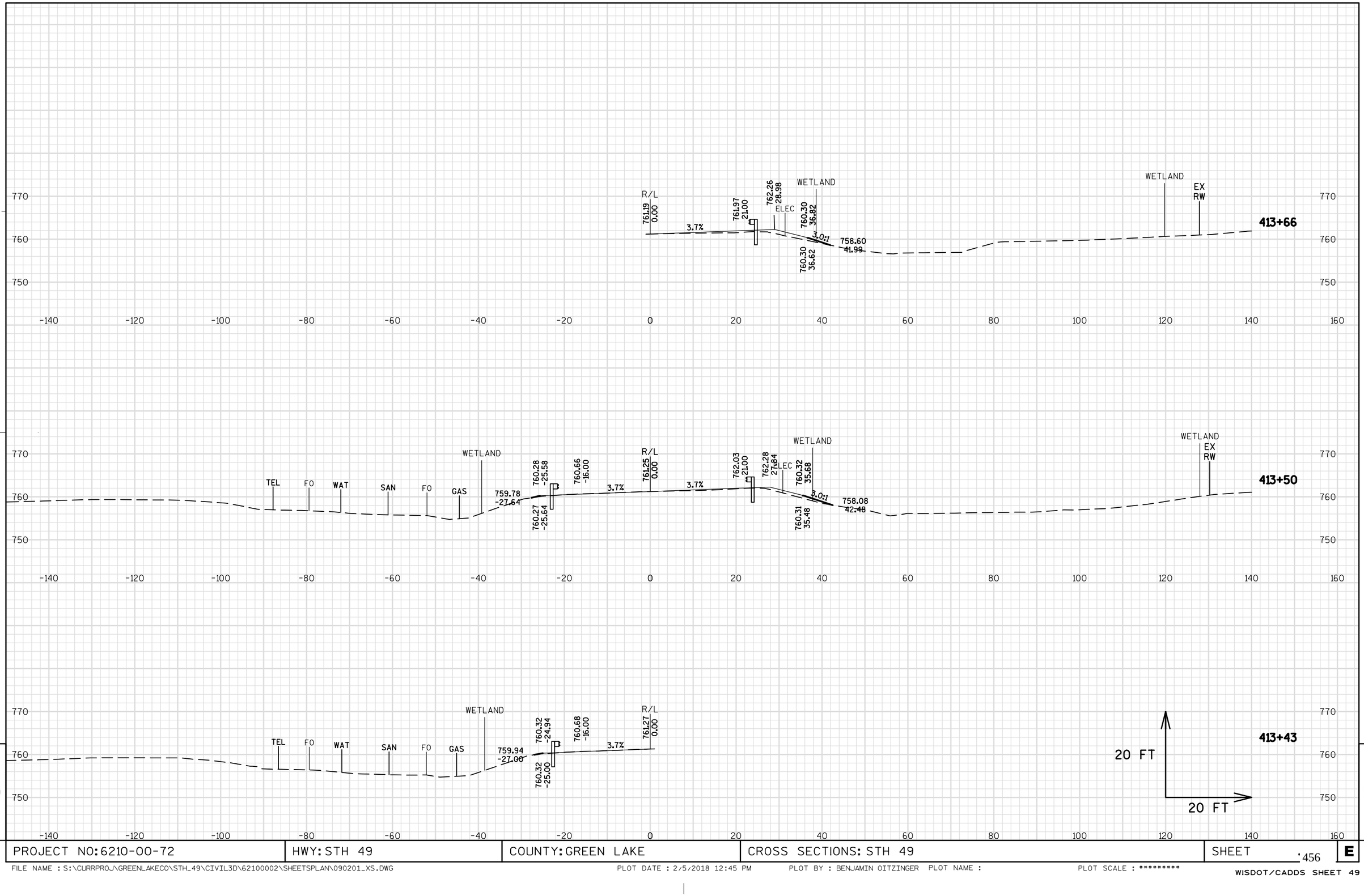
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 455	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:45 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

WISDOT/CADDS SHEET 49



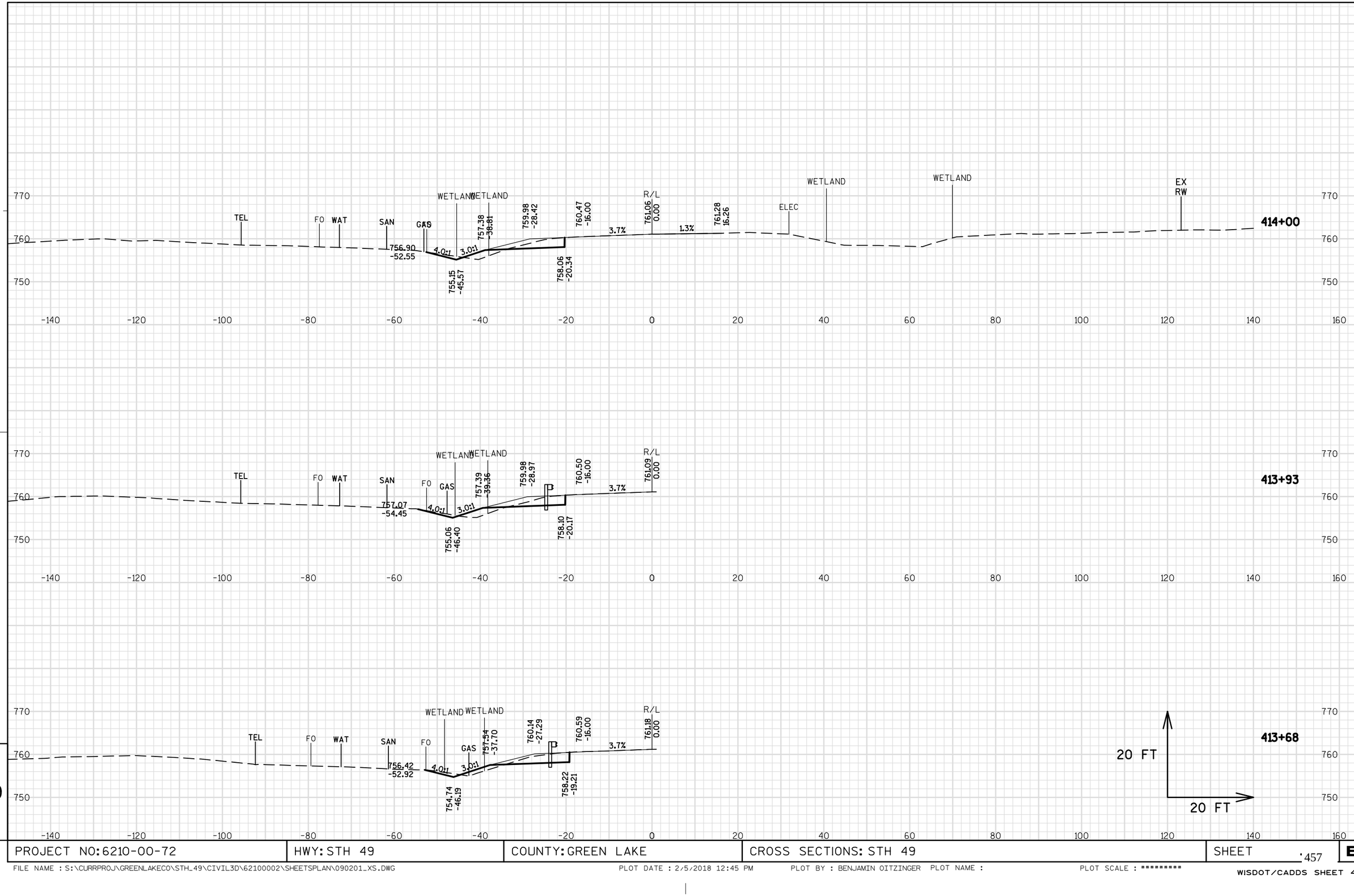
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 456	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:45 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

WISDOT/CADDS SHEET 49



9

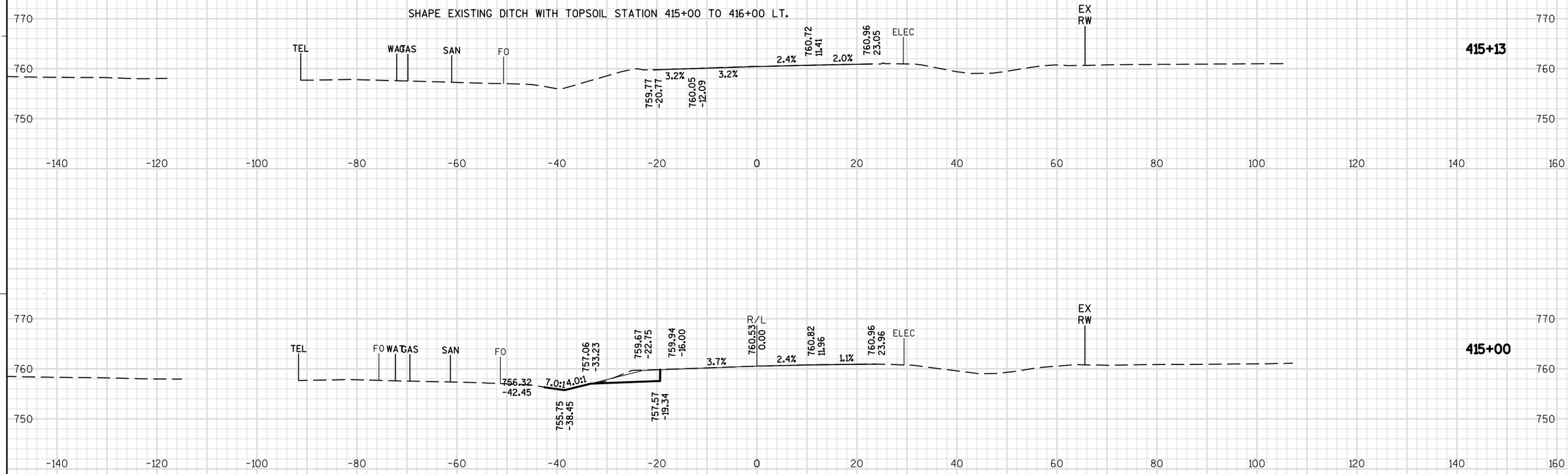
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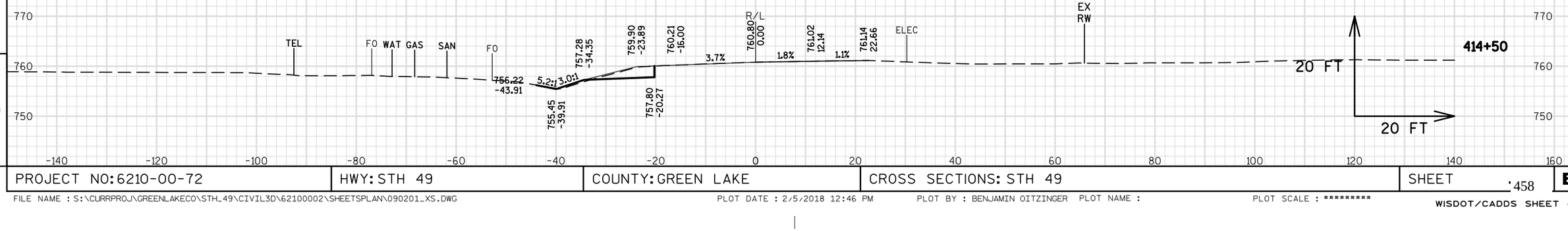
PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 457	E

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WISDOT/CADDS SHEET 49

SHAPE EXISTING DITCH WITH TOPSOIL STATION 415+00 TO 416+00 LT.





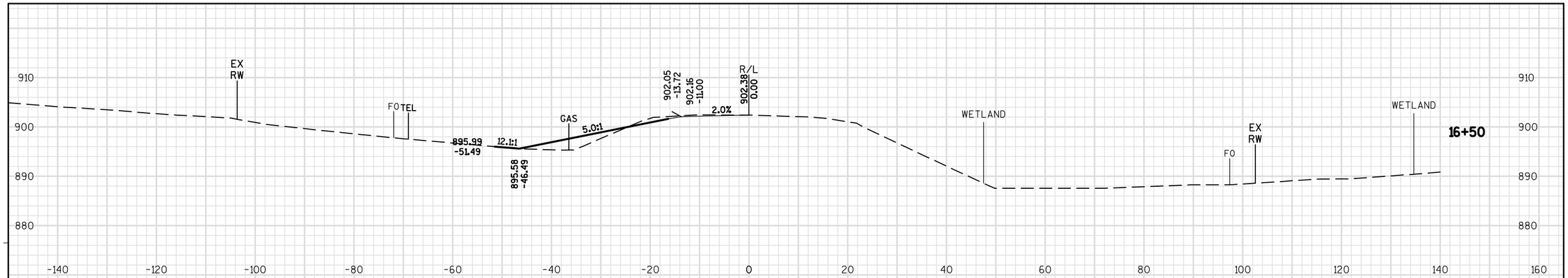
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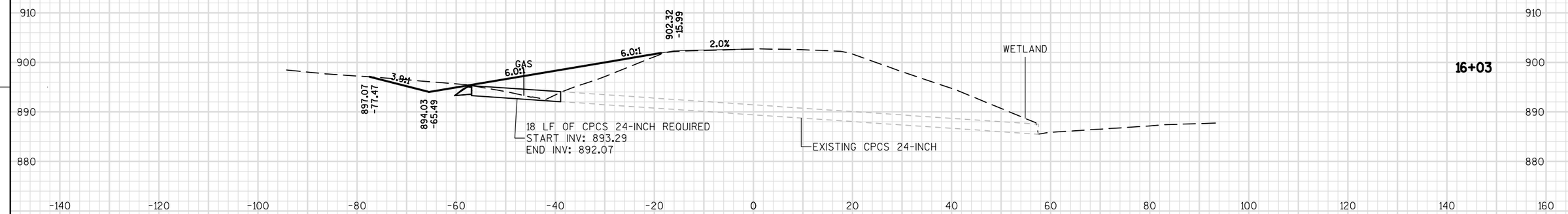
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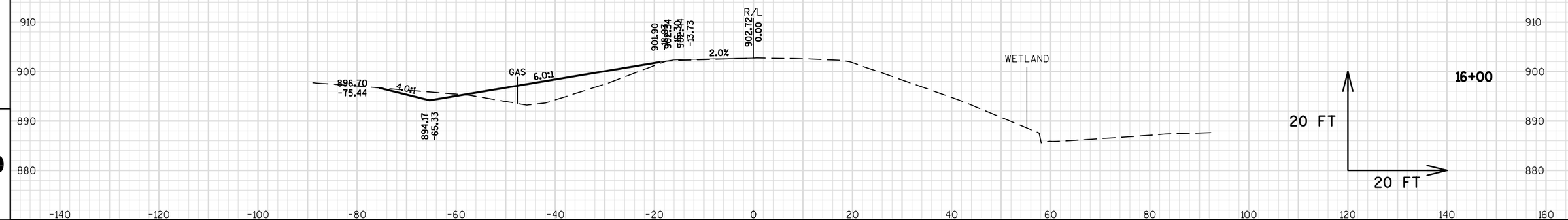
PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 49	SHEET 458	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 12:46 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

WISDOT/CADDS SHEET 49







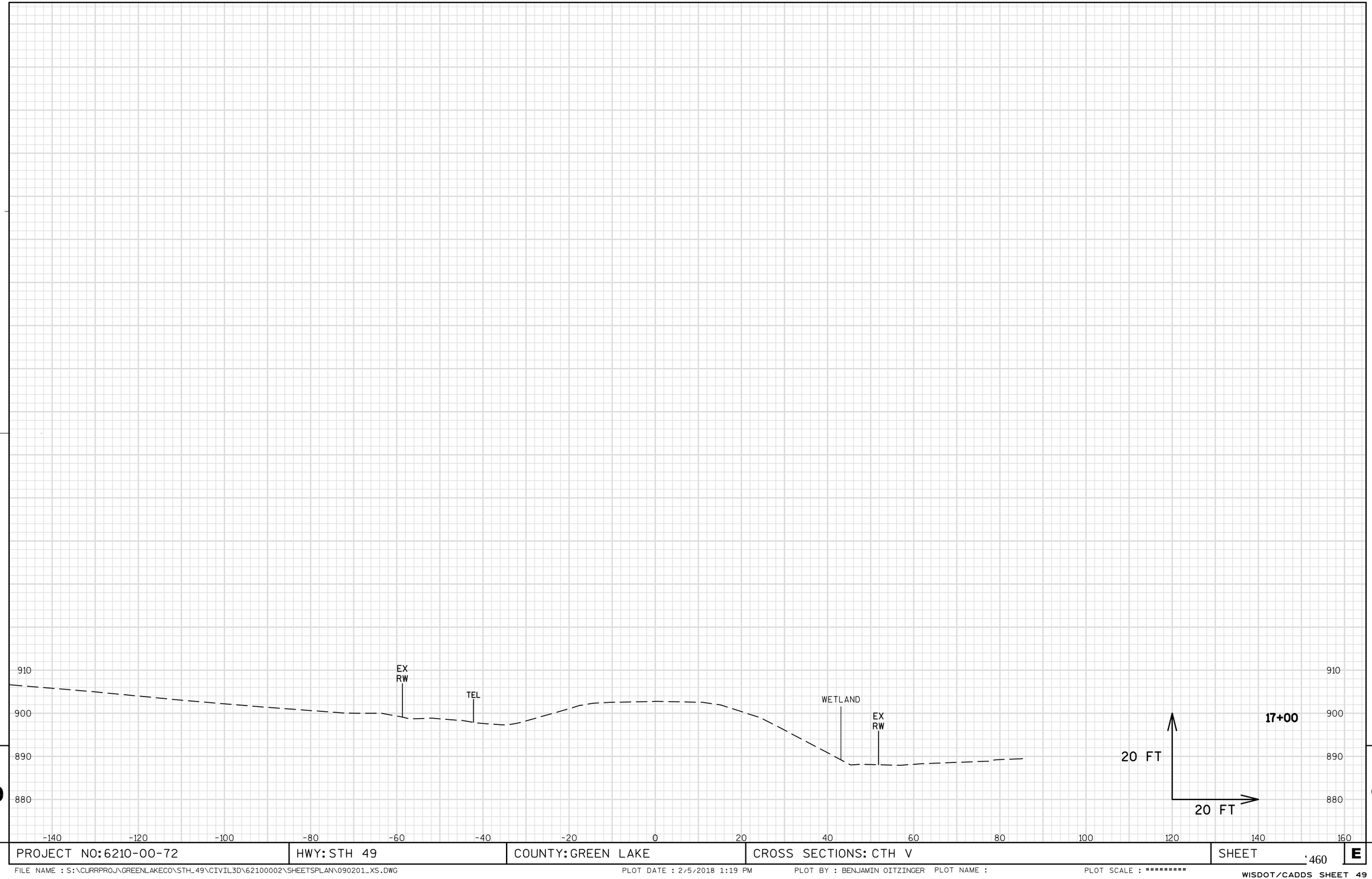
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: CTH V	SHEET 459	E

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WISDOT/CADDS SHEET 49



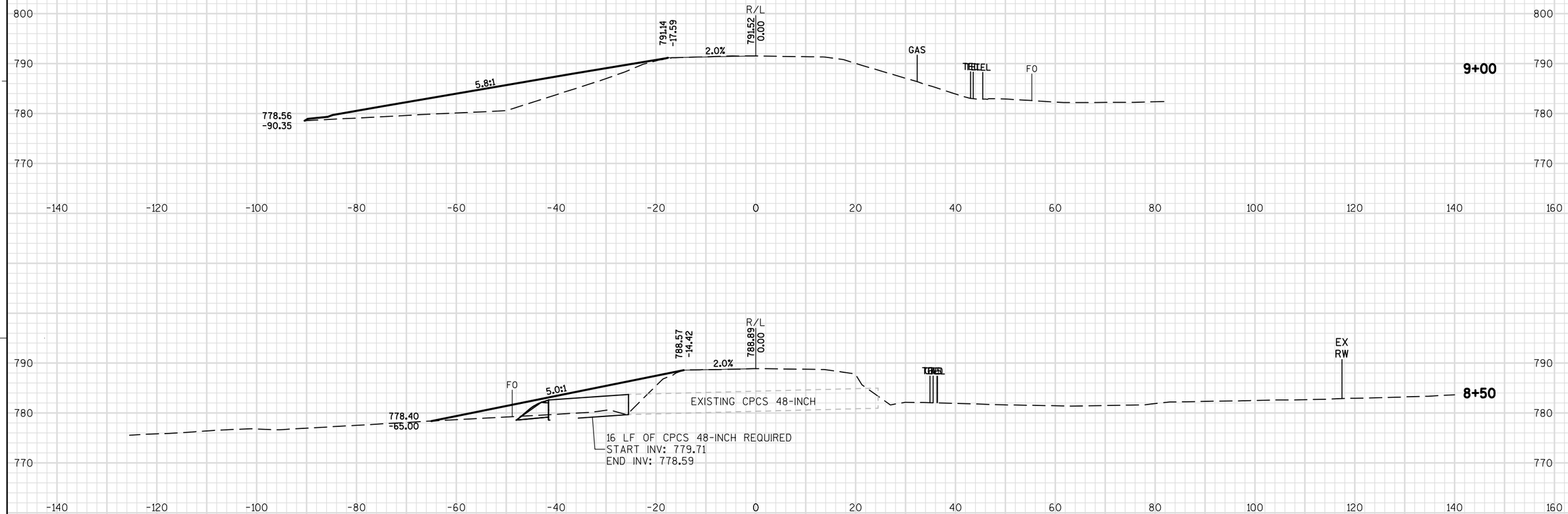
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PROJECT NO: 6210-00-72	HWY: STH 49	COUNTY: GREEN LAKE	CROSS SECTIONS: CTH V	SHEET 460	E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 1:19 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : *********

WISDOT/CADDS SHEET 49



PROJECT NO:6210-00-72	HWY:STH 49	COUNTY:GREEN LAKE	CROSS SECTIONS:CTH A	SHEET E

FILE NAME : S:\CURRPROJ\GREENLAKECO\STH_49\CIVIL3D\62100002\SHEETSPLAN\090201_XS.DWG PLOT DATE : 2/5/2018 1:21 PM PLOT BY : BENJAMIN OITZINGER PLOT NAME : PLOT SCALE : ********** WISDOT/CADDS SHEET 49

Wisconsin Department of Transportation

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