SUP

PROJECT ID: 8010-01-77

WITH: N/A

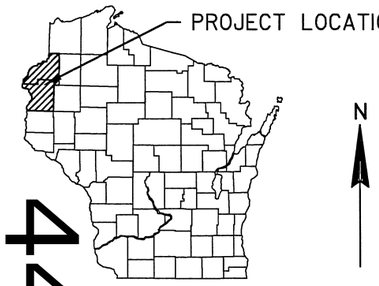
COUNTY: POLK

NOVEMBER 2017

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 = 236



44

DESIGN DESIGNATION

A.A.D.T.	2017	=	5500
A.A.D.T.	2037	=	6550
D.H.V.		=	890
D.D.		=	61/39
T.		=	16.7%
DESIGN SPEED		=	30-60 MPH
ESALS		=	1,430,800

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

LUCK - SIREN

POLK STREET TO BACON STREET

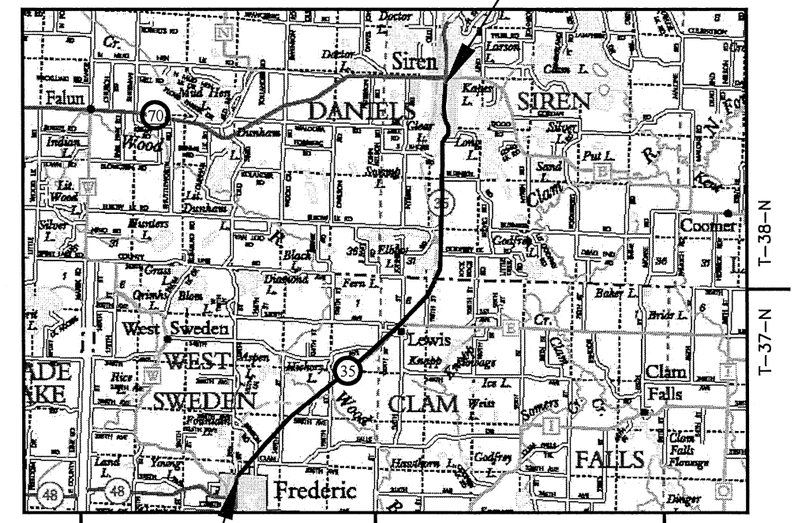
STH 35

POLK COUNTY

STATE PROJECT NUMBER
8010-01-77

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
8010-01-77	WISC 2017622	1

END PROJECT
STA 746+50
Y=409,389.68
X=529,365.11



BEGIN PROJECT 8010-01-77
STA 232+00
Y=366,801.04
X=508,232.18

LAYOUT
SCALE 0 1.5 MI.

TOTAL NET LENGTH OF CENTERLINE = 9.744 MI.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), POLK & BURNETT COUNTY, NAD 1983 (2011).

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 NAVD 88 (2012).

ORIGINAL PLAN PREPARED BY

BECHER HOPPE
330 Fourth Street · PO Box 8000
Wausau, WI · 54402-8000
715.845.8000 · Fax 715.845.8008
becherhoppe.com

WISCONSIN
CHAD D. GRUNDEMANN
E-43616-6
WAUSAU, WI
PROFESSIONAL ENGINEER

9-22-2017
(Date) (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	BECHER-HOPPE ASSOCIATES, INC
Designer	BECHER-HOPPE ASSOCIATES, INC
Project Manager	BETH CUNNINGHAM
Regional Examiner	TOU YANG
Regional Supervisor	ANDREW STENSLAND

APPROVED FOR THE DEPARTMENT
DATE: 9/22/17 Beth Cunningham
(Signature)

E

2

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.

A SAWED JOINT WILL BE REQUIRED WHERE NEW PAVEMENT IS TO MEET AN EXISTING PAVED SURFACE.

IF PLACING EMBANKMENT ON SIDE SLOPES 10 FEET HIGH OR HIGHER AND STEEPER THAN ONE VERTICAL TO 3 HORIZONTAL, PROVIDE VERTICALLY FACED HORIZONTAL STEPS OR BENCHES IN THE SLOPES TO SUPPORT THE EMBANKMENT. CUT OR FORM THE STEPS OR BENCHES WHILE PLACING THE EMBANKMENT.

CULVERT PIPE LINER SIZES AS SHOWN IN THE PLAN ARE APPROXIMATE INNER DIAMETERS. INSTALL A LINER SYSTEM IN CONFORMANCE WITH THE SPECIAL PROVISIONS.

SECTION 2 ORDER

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
EROSION CONTROL
PERMANENT SIGNING
PAVEMENT MARKING
TRAFFIC CONTROL
CONTROL POINT DATA

RUNOFF COEFFICIENT TABLE

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

TOTAL PROJECT AREA = _____ ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = _____ACRES

AS-BUILT REFERENCE (YEAR)*

407E	(1929)
407F	(1929)
DJ8484	(1933)
T028-3(5)	(1955)
T028-3(7)	(1955)
8012-00-71	(1978)
8014-07-71	(1979)
8010-17-71	(1996)
8010-21-71	(1998)
8010-25-71	(1998)

*APPROVAL YEAR (NOT CONSTRUCTION)

UTILITIES

ELECTRIC
NORTHWESTERN WISCONSIN ELECTRIC CO
104 E OAK ST
PO BOX 467
FREDERIC, WI 54837
DAN OLSON
PHONE: (715) 327-4231
MOBILE: (715) 431-0561
danolson@nweco.com

GAS/PETROLEUM
WE ENERGIES
333 W EVERETT ST
MILWAUKEE, WI 53203
LATROY BRUMFIELD
PHONE: (414) 221-4578
latroy.brumfield@we-energies.com

COMMUNICATION
LAKELAND TELECOM INC
PO BOX 40
MILLTOWN, WI 54858
TODD RUEHM
PHONE: (715) 825-2171
MOBILE: (715) 554-3371
TODDR@LAKELAND.WS
toddr@lakeland.ws

COMMUNICATION
CENTURY LINK
20 S WILSON AVE
RICE LAKE, WI 54868
MONTY PARKER
PHONE: (715) 234-5528
monty.parker@centurytel.com

COMMUNICATION
SIREN TELEPHONE COMPANY, INC.
PO BOX 506
SIREN, WI 54872-0506
SID SHERSTAD

WATER
FREDERIC UTILITIES
PO BOX 567
FREDERIC, WI 54837-0567

WATER
VILLAGE OF SIREN
PO BOX 23
SIREN, WI 54872
ANN PETERSON
(715) 349-2273

SANITARY
SANITARY DISTRICT NO. 1
VILLAGE OF SIREN
PO BOX 23
SIREN, WI 54872
ANN PETERSON
(715) 349-2273

DNR CONTACT

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
810 W MAPLE STREET
SPOONER, WI 54801
AMY CRONK
PHONE: (715) 635-4229
amy.cronk@wisconsin.gov

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

2

GANDY DANCER TRAIL

STH 35

POLK AVE N

POLK ST

2.5" MILL
3" OVERLAY

BEGIN PROJECT
STA 232+00.00

VILLAGE OF FREDERIC

CULVERT PIPE LINER

BENSON RD

FREDERIC MIDDLE &
HIGH SCHOOL

CULVERT PIPE LINER

CULVERT PIPE LINER

140TH ST

STH 35

GUARDRAIL
IMPROVEMENTS

CULVERT CLEANING

330TH AVE

CULVERT CLEANING

GANDY DANCER TRAIL

CULVERT PIPE LINER

GUARDRAIL
IMPROVEMENTS

WOOD
RIVER

CULVERT CLEANING

130TH ST

WOOD RIVER

230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380

130TH ST

370 380 390 400 410 420 430 440 450 460 470 480 490 500 510 520 530 540 550

CULVERT CLEANING

CULVERT CLEANING

CULVERT PIPE LINER

GANDY DANCER TRAIL

STH 35

CULVERT CLEANING

345TH AVE

120TH ST

MAIN AVE

454+05.00

466+78.00

2.5" MILL
3" OVERLAY

3" MILL
3" OVERLAY

2.5" MILL
3" OVERLAY

115TH ST

LEWIS
UNINCORPORATED

POLK COUNTY

BURNETT COUNTY

GANDY DANCER TRAIL

CULVERT PIPE LINER

120TH ST

GUARDRAIL REMOVAL &
SIGN IMPROVEMENTS

PINE AVE

OAK AVE

115TH ST

CULVERT CLEANING

INTERSECTION
IMPROVEMENTS

CTH E (350TH AVE)

CULVERT CLEANING

110TH ST

GUARDRAIL
IMPROVEMENTS

PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK	PROJECT OVERVIEW	SHEET 3 E

2

POLK COUNTY
BURNETT COUNTY

ELBOW LAKE

GANDY DANCER TRAIL

530 540 550 560 570 580 590 600 610 620 630 640 650 660 670 680 690 700 710

WAYSIDE

ELBOW LAKE RD

CULVERT CLEANING

CRIPPLE CREEK

STH 35

GODFREY LAKE RD

CULVERT CLEANING

GUARDRAIL IMPROVEMENTS

CULVERT PIPE LINER

BURNIKEL RD

CULVERT CLEANING

TEWALT RD

RUSTIC WAY

CLEAR LAKE

GANDY DANCER TRAIL

FANDEEN RD

CLEAR LAKE ST

CEMETERY RD

RASMUSEN ST

2

N

GANDY DANCER TRAIL

CLEAR LAKE

TEWALT RD

RUSTIC WAY

670 680 690 700 710 720 730 740 750

FANDEEN RD

CLEAR LAKE ST

CEMETERY RD

RASMUSEN ST

OLSON ST

TOWER RD

STH 35

2.5" MILL
3" OVERLAY

CAPES ST

ANDERSON ST

LANQUIST ST

BACON ST

CTH B

STH 70

MAIN ST

VILLAGE OF SIREN

STH 35

END PROJECT
STA 746+50.00

CROOKED LAKE PARK

CROOKED LAKE

GANDY DANCER TRAIL

FISH LAKE

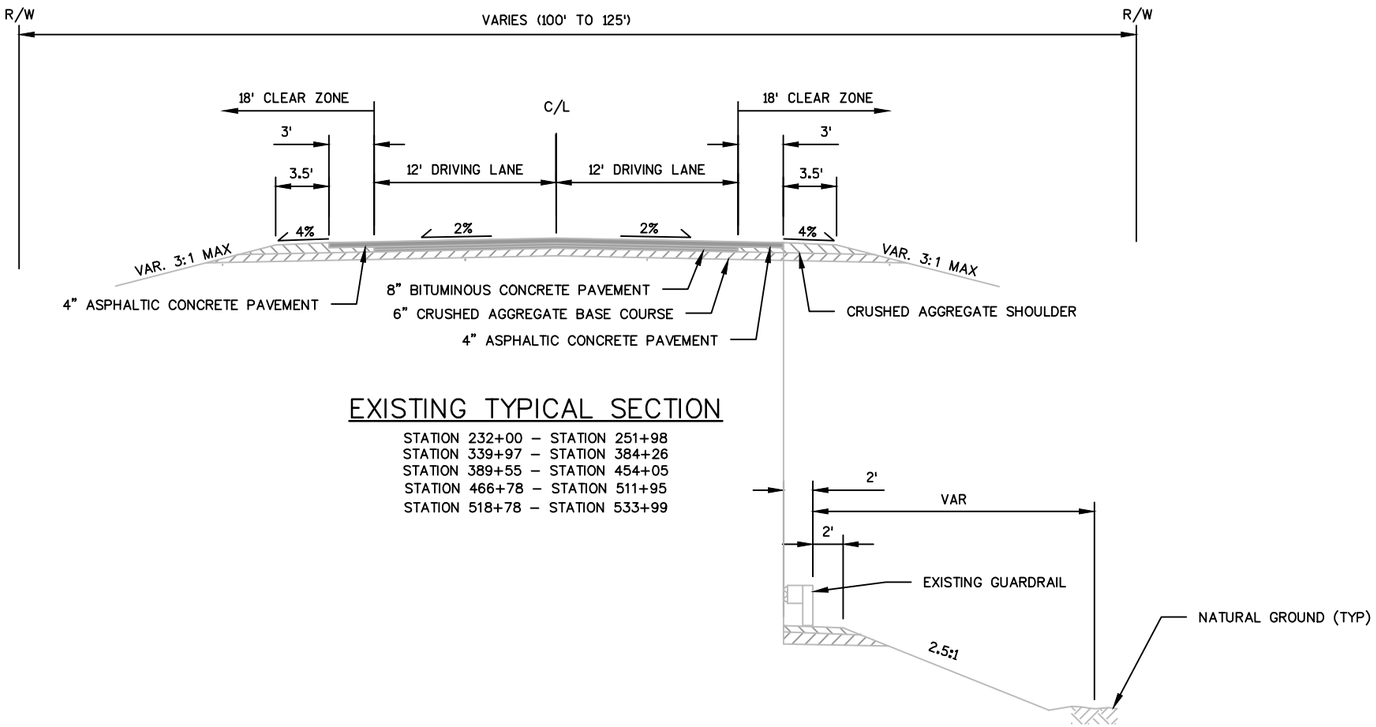
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PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK	PROJECT OVERVIEW	SHEET 4 E

FILE NAME : \\BHASERVER14\PROJECTS\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\020201-PO.DWG PLOT DATE : 9/15/2017 10:37 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : ---------- PLOT SCALE : 1 IN:1200 FT

WISDOT/CADDS SHEET 42

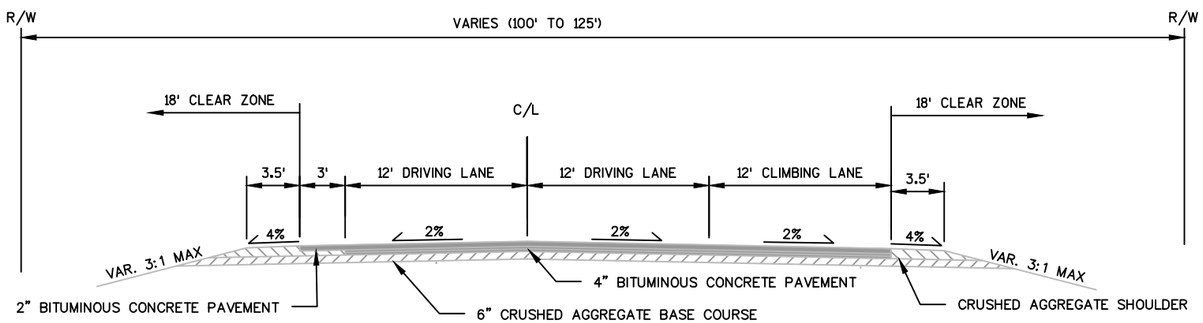
2



EXISTING TYPICAL SECTION

STATION 232+00 – STATION 251+98
STATION 339+97 – STATION 384+26
STATION 389+55 – STATION 454+05
STATION 466+78 – STATION 511+95
STATION 518+78 – STATION 533+99

STATION 343+42 – STATION 345+95
STATION 349+95 – STATION 352+23
STATION 519+81 – STATION 528+37

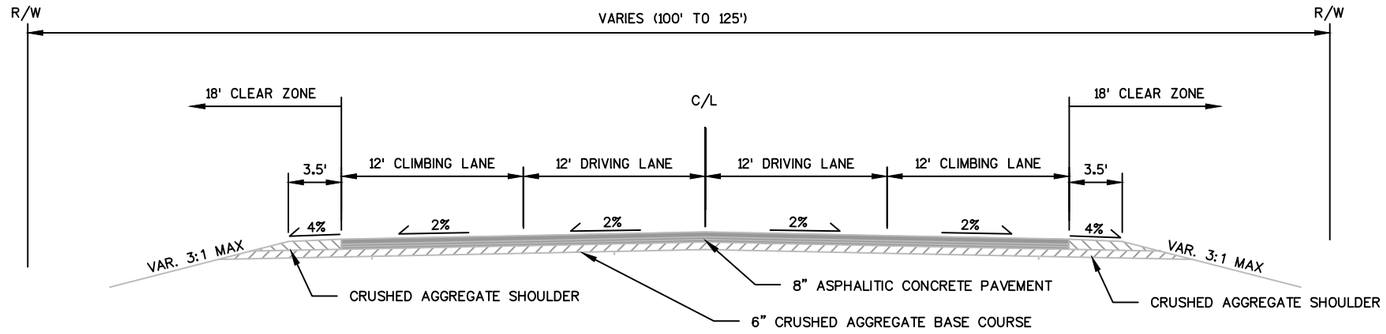


EXISTING TYPICAL SECTION

STATION 251+98 – STATION 280+00

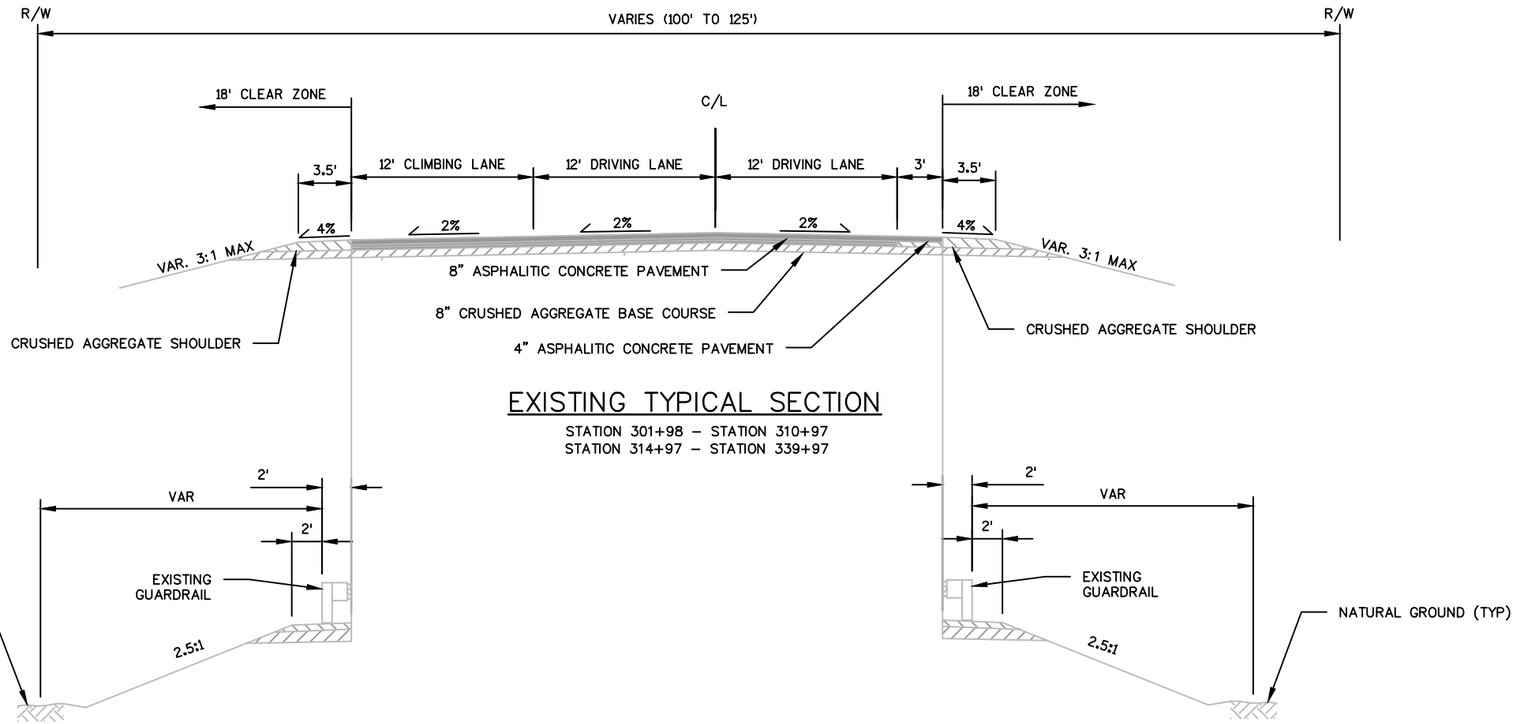
*NOTE: EXISTING TYPICAL SECTIONS BASED ON AS–BUILTS

PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK	EXISTING TYPICAL SECTIONS	SHEET 5	E



EXISTING TYPICAL SECTION

STATION 280+00 – STATION 301+98



EXISTING TYPICAL SECTION

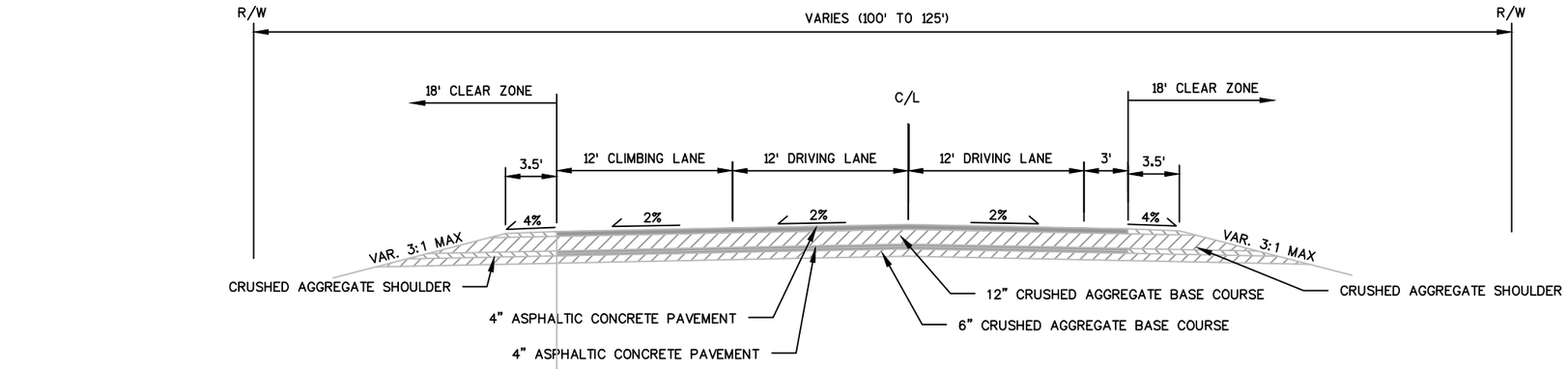
STATION 301+98 – STATION 310+97
STATION 314+97 – STATION 339+97

STATION 307+87 – STATION 310+97

STATION 306+84 – STATION 310+65

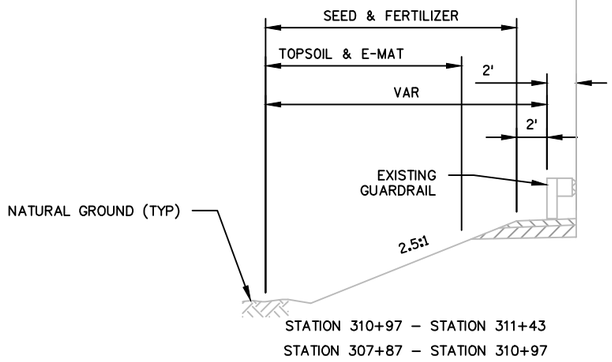
*NOTE: EXISTING TYPICAL SECTIONS BASED ON AS-BUILTS

2



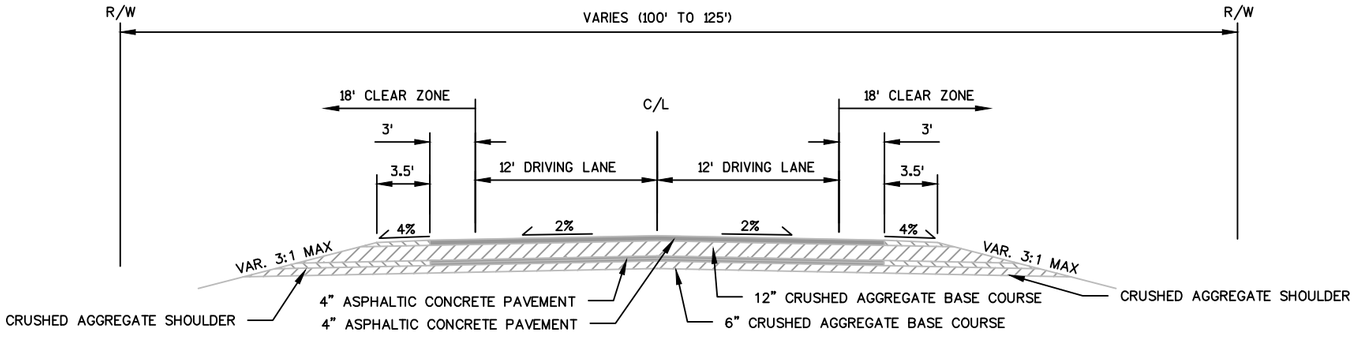
EXISTING TYPICAL SECTION

STATION 310+97 – STATION 314+97



STATION 310+97 – STATION 311+43

STATION 307+87 – STATION 310+97

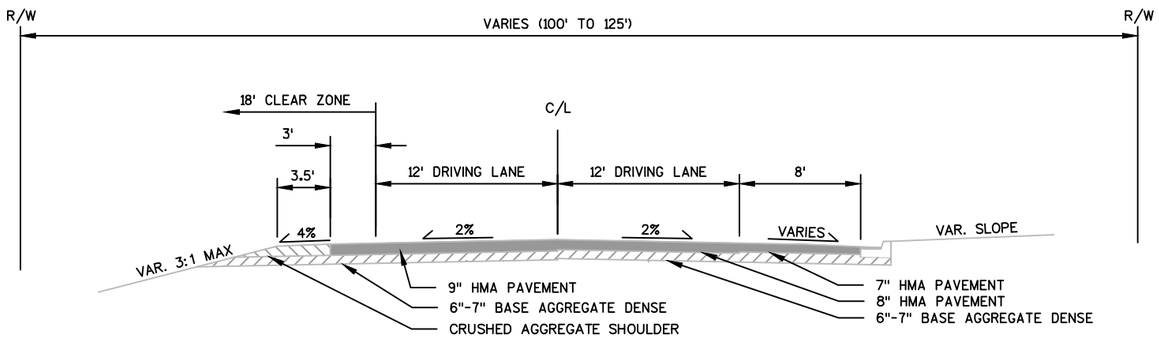


EXISTING TYPICAL SECTION

STATION 384+26 – STATION 389+55

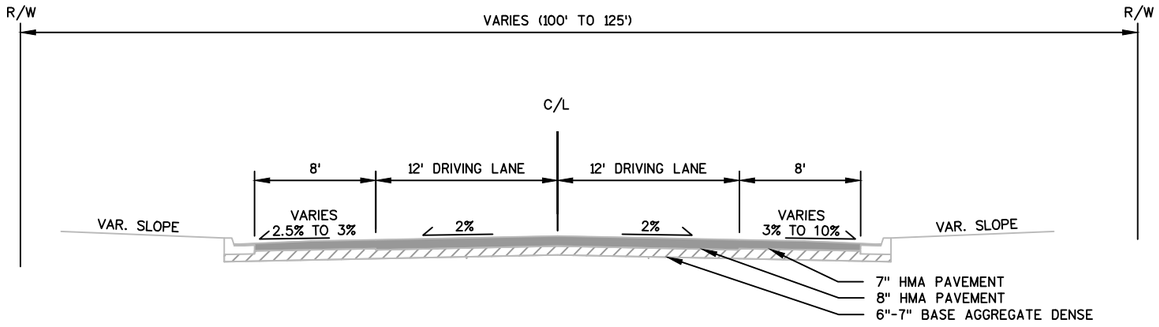
*NOTE: EXISTING TYPICAL SECTIONS BASED ON AS-BUILTS

2



EXISTING TYPICAL SECTION

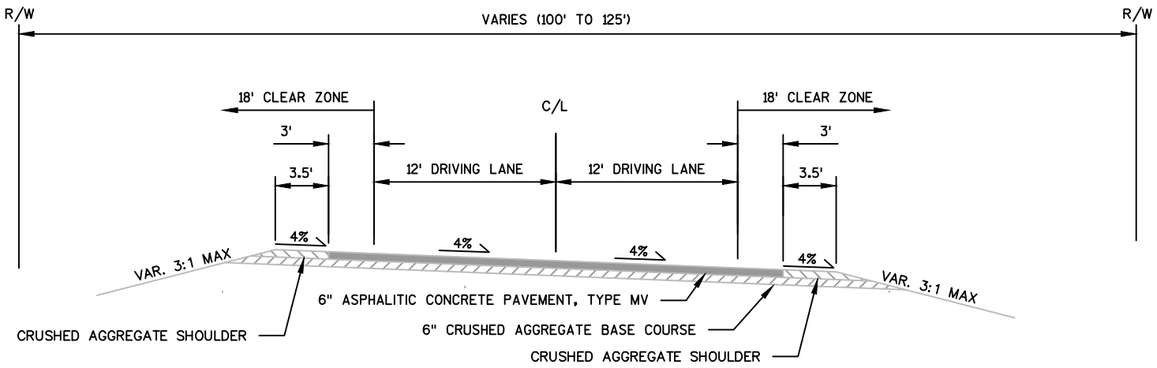
STATION 454+05 – STATION 457+56
STATION 461+36 – STATION 466+78



EXISTING TYPICAL SECTION

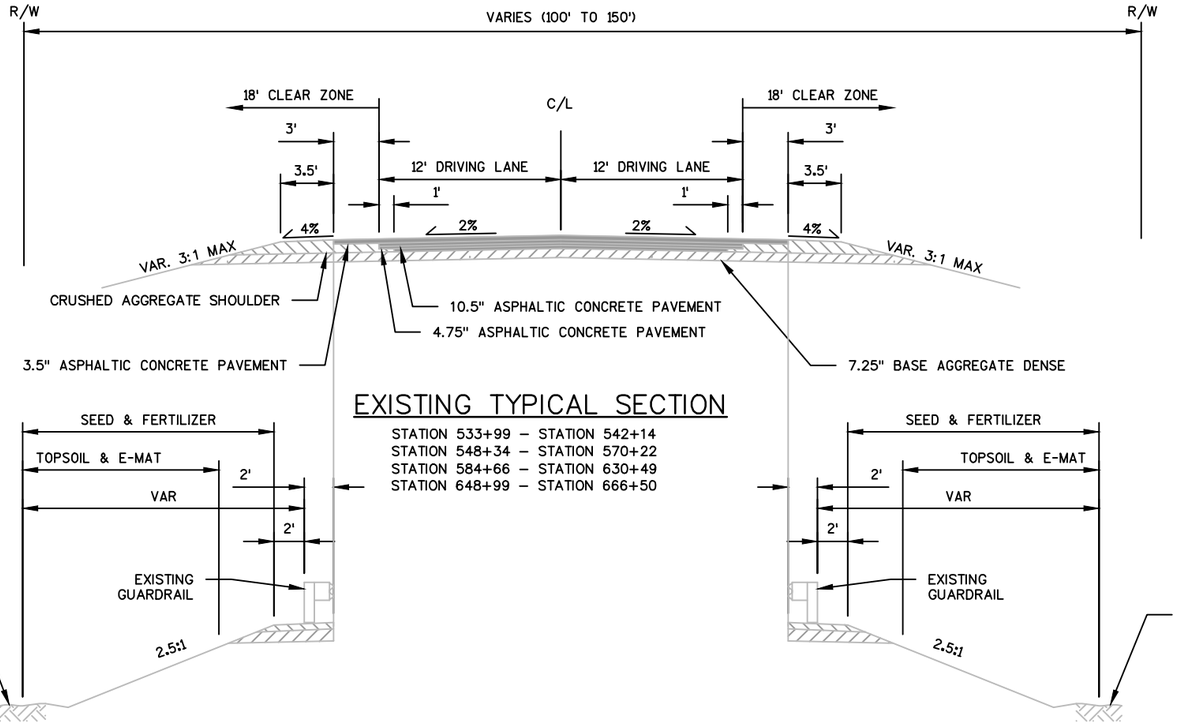
STATION 457+56 – STATION 461+36

*NOTE: EXISTING TYPICAL SECTIONS BASED ON AS–BUILTS



EXISTING TYPICAL SECTION

STATION 511+95 – STATION 518+78



EXISTING TYPICAL SECTION

STATION 533+99 – STATION 542+14
STATION 548+34 – STATION 570+22
STATION 584+66 – STATION 630+49
STATION 648+99 – STATION 666+50

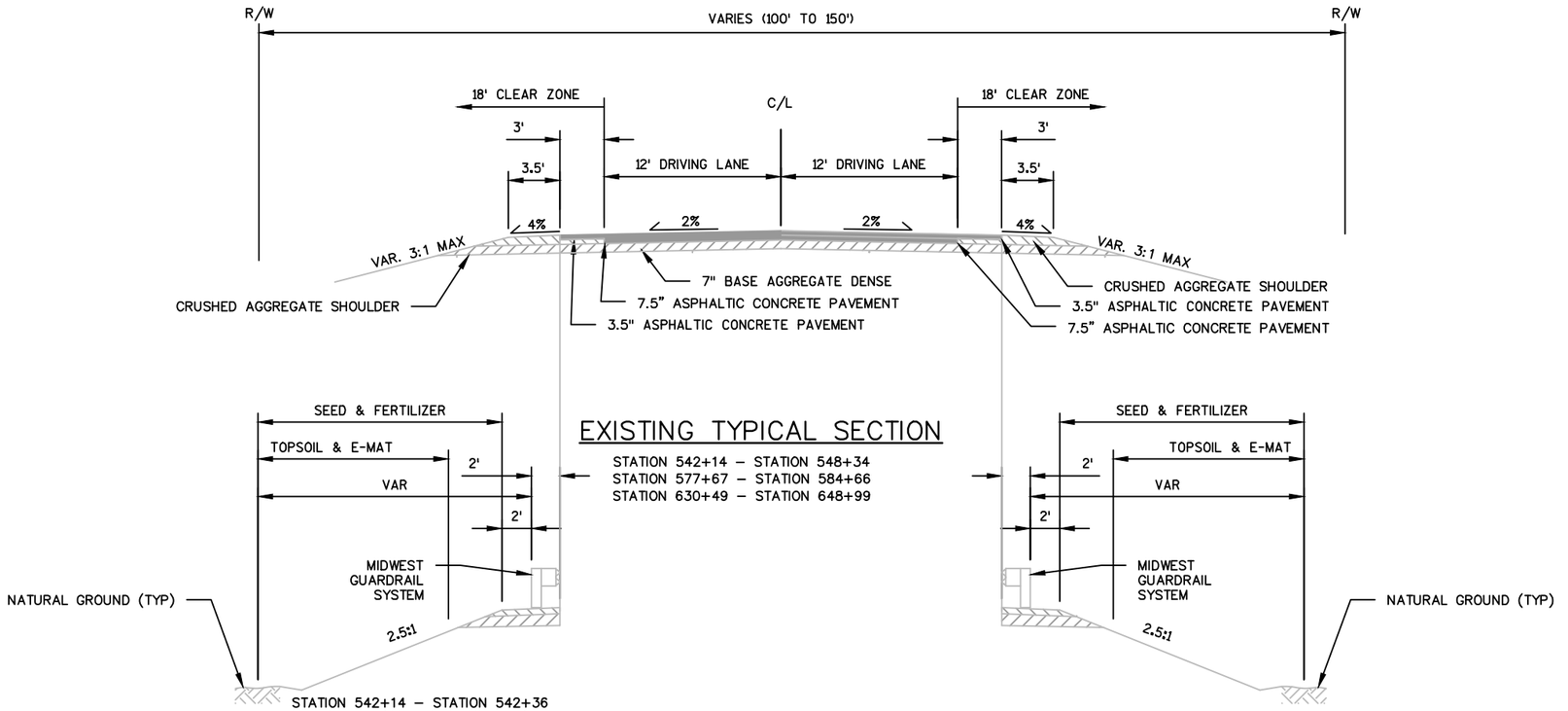
STATION 537+33 – STATION 539+36
STATION 541+11 – STATION 542+14
STATION 584+66 – STATION 589+87

STATION 584+66 – STATION 585+35
STATION 587+60 – STATION 589+38

*NOTE: EXISTING TYPICAL SECTIONS BASED ON AS–BUILTS

PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK	EXISTING TYPICAL SECTIONS	SHEET 9	E

2

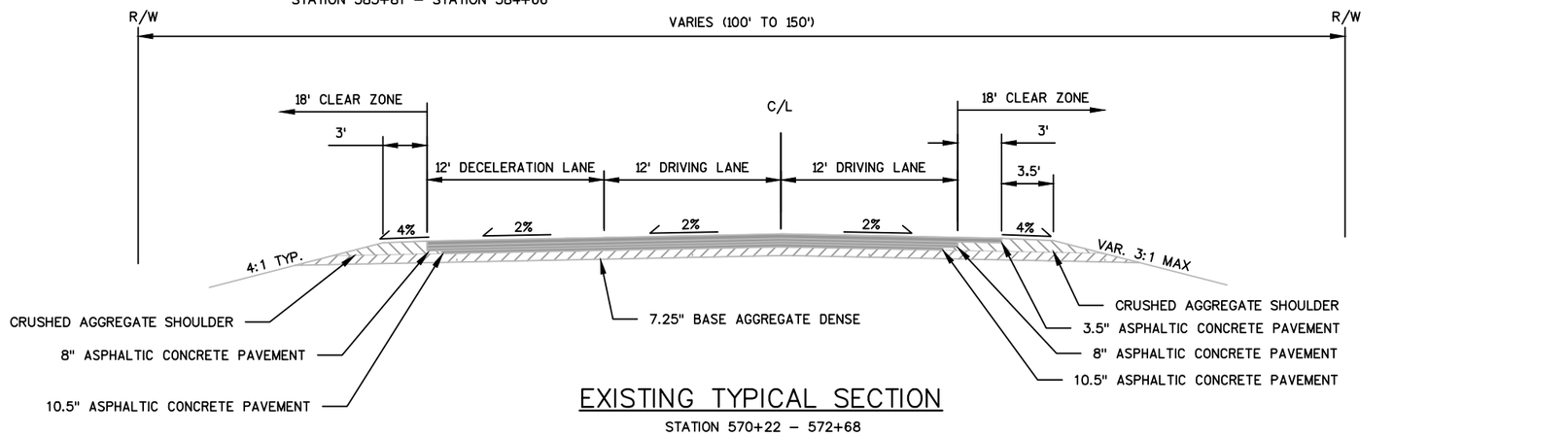


EXISTING TYPICAL SECTION

STATION 542+14 – STATION 548+34
STATION 577+67 – STATION 584+66
STATION 630+49 – STATION 648+99

STATION 542+14 – STATION 542+36
STATION 543+11 – STATION 545+67
STATION 583+81 – STATION 584+66

STATION 582+82 – STATION 584+66

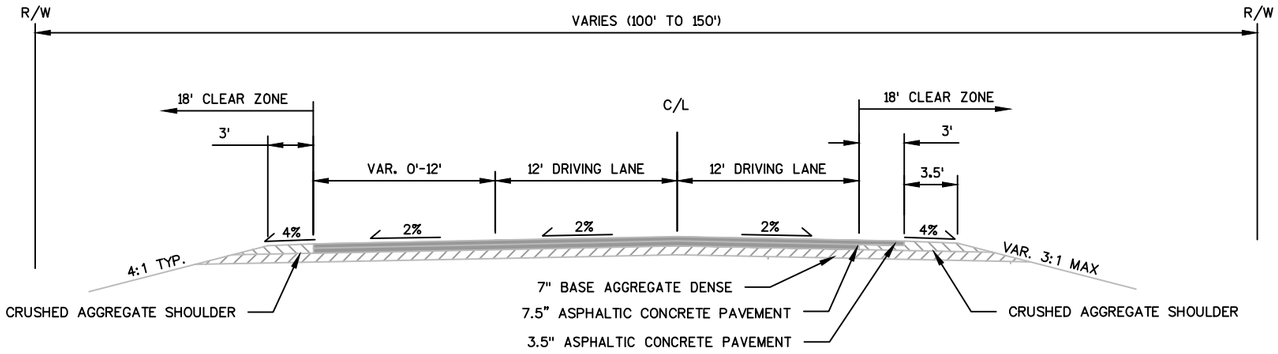


EXISTING TYPICAL SECTION

STATION 570+22 – 572+68

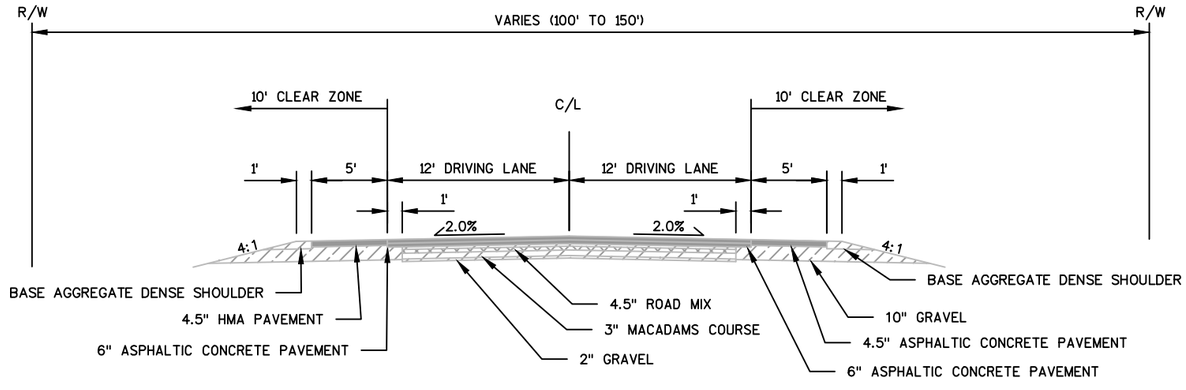
*NOTE: EXISTING TYPICAL SECTIONS BASED ON AS-BUILTS

2



EXISTING TYPICAL SECTION

STATION 572+68 – STATION 577+67

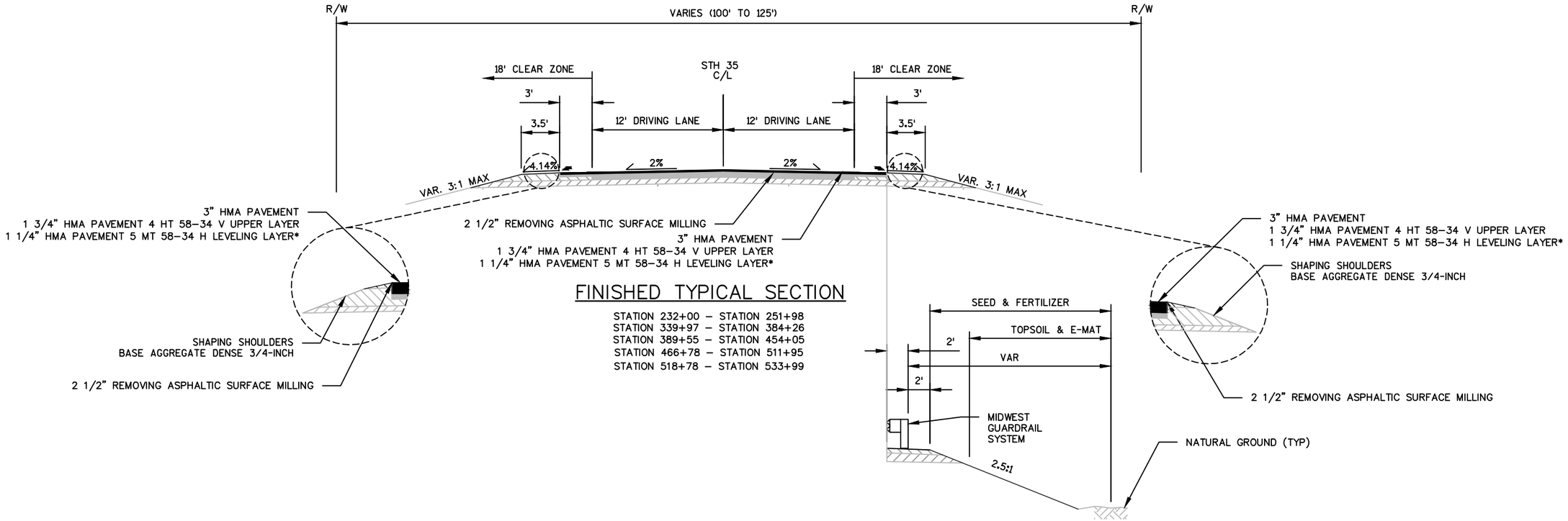


EXISTING TYPICAL SECTION

STATION 666+50 – STATION 746+50

*NOTE: EXISTING TYPICAL SECTIONS BASED ON AS–BUILTS

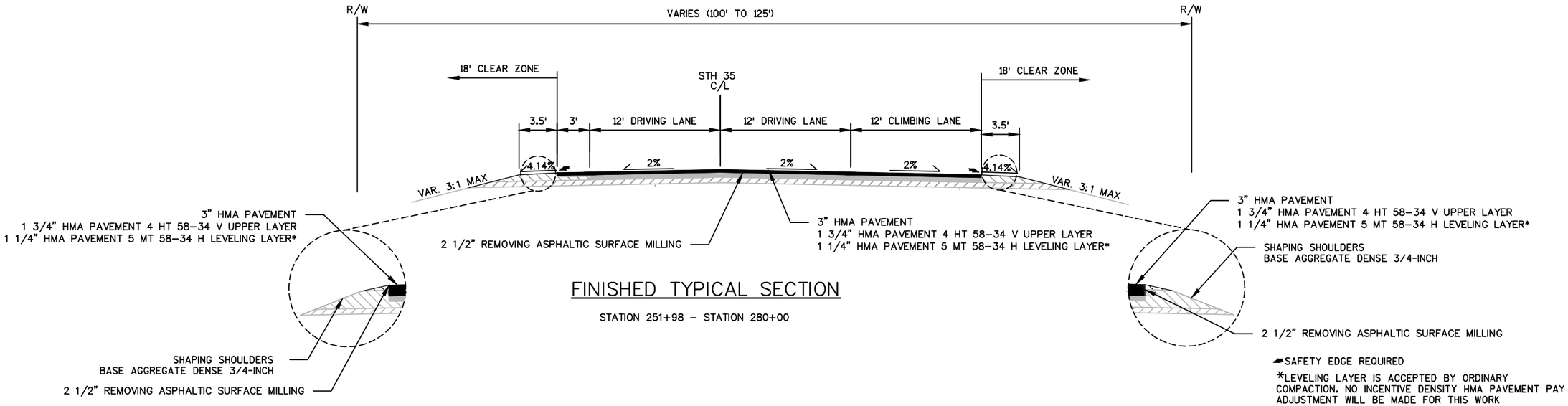
2



FINISHED TYPICAL SECTION

STATION 232+00 – STATION 251+98
STATION 339+97 – STATION 384+26
STATION 389+55 – STATION 454+05
STATION 466+78 – STATION 511+95
STATION 518+78 – STATION 533+99

STATION 343+42 – STATION 345+95
STATION 349+95 – STATION 352+23
STATION 519+81 – STATION 528+37



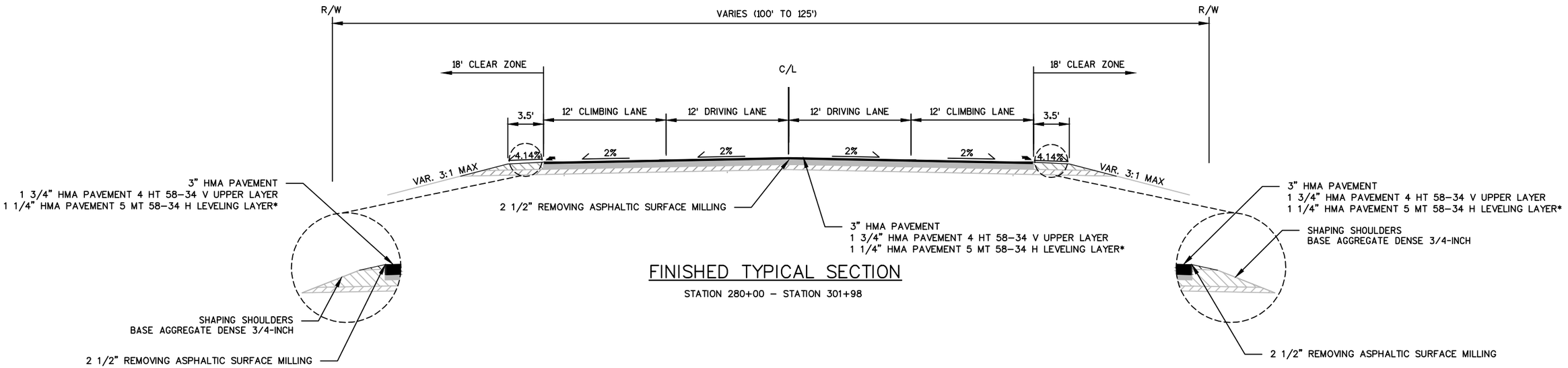
FINISHED TYPICAL SECTION

STATION 251+98 – STATION 280+00

SAFETY EDGE REQUIRED

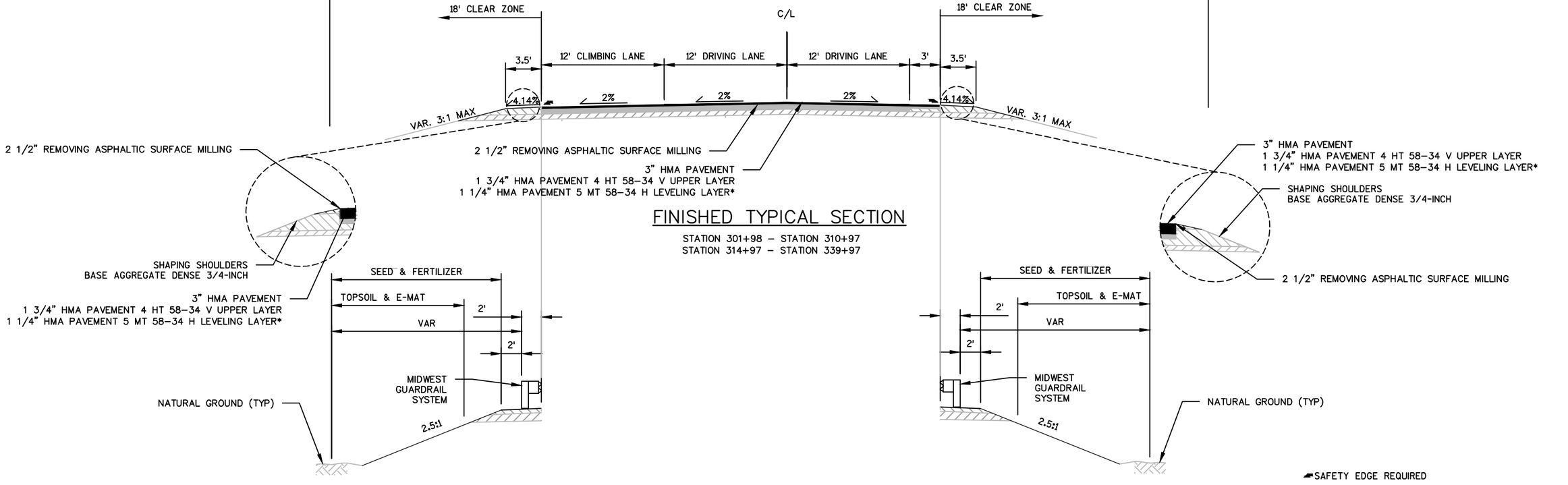
*LEVELING LAYER IS ACCEPTED BY ORDINARY COMPACTION. NO INCENTIVE DENSITY HMA PAVEMENT PAY ADJUSTMENT WILL BE MADE FOR THIS WORK

PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK	FINISHED TYPICAL SECTIONS	SHEET 12	E



FINISHED TYPICAL SECTION

STATION 280+00 – STATION 301+98



FINISHED TYPICAL SECTION

STATION 301+98 – STATION 310+97
STATION 314+97 – STATION 339+97

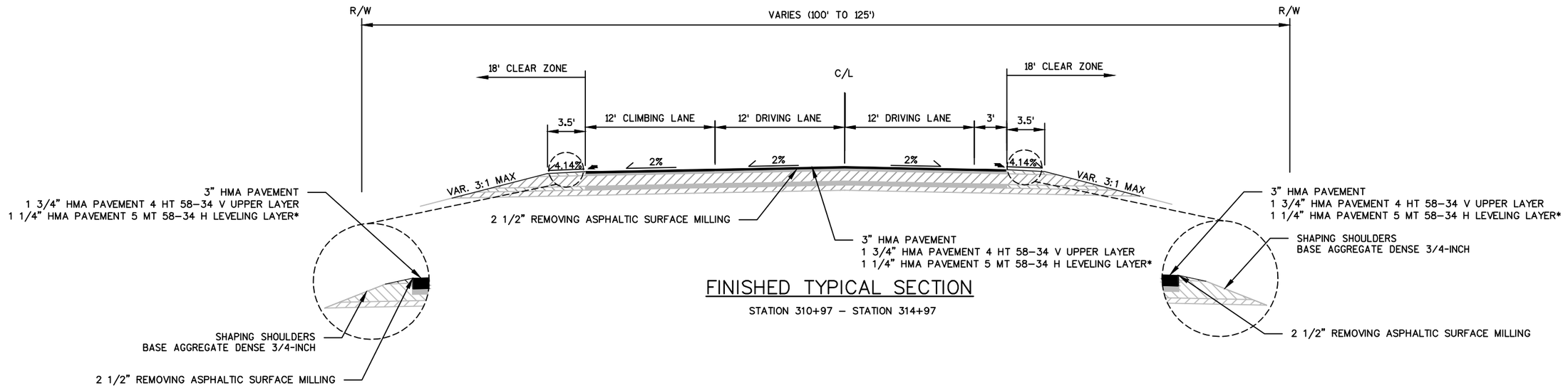
STATION 307+87 – STATION 310+97

STATION 306+84 – STATION 310+65

SAFETY EDGE REQUIRED

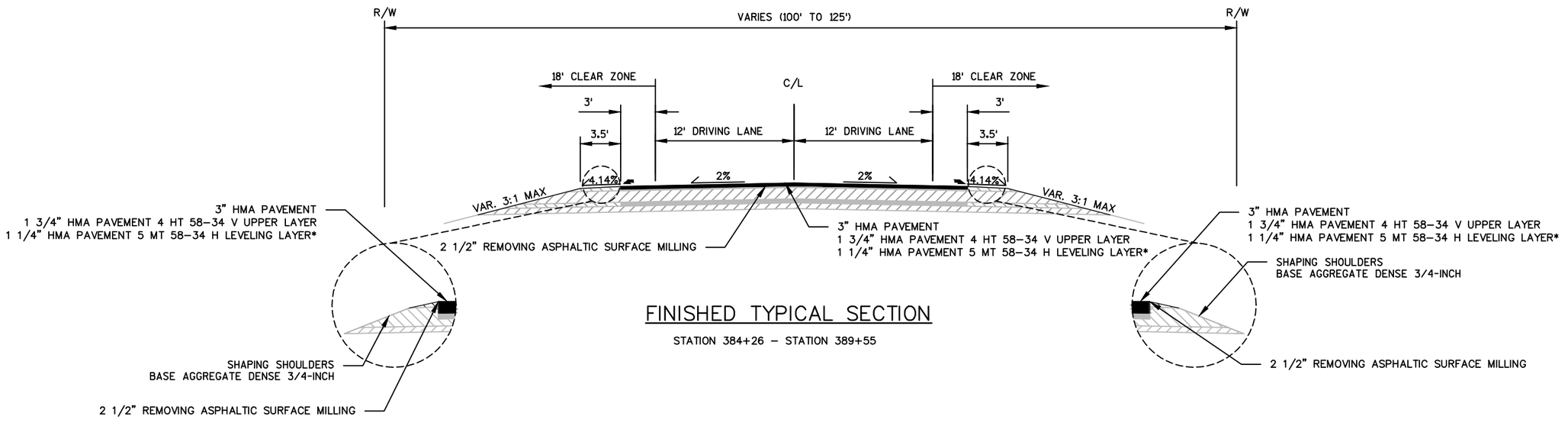
*LEVELING LAYER IS ACCEPTED BY ORDINARY COMPACTION. NO INCENTIVE DENSITY HMA PAVEMENT PAY ADJUSTMENT WILL BE MADE FOR THIS WORK

PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK	FINISHED TYPICAL SECTIONS	SHEET 13	E



FINISHED TYPICAL SECTION

STATION 310+97 – STATION 314+97



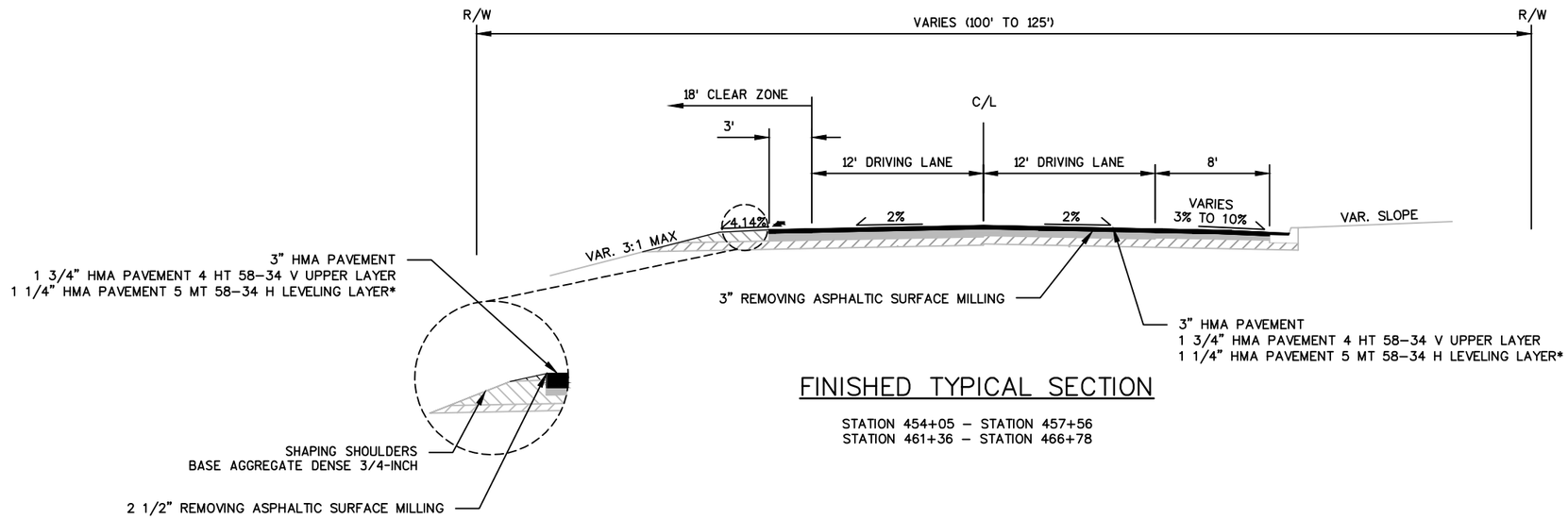
FINISHED TYPICAL SECTION

STATION 384+26 – STATION 389+55

SAFETY EDGE REQUIRED

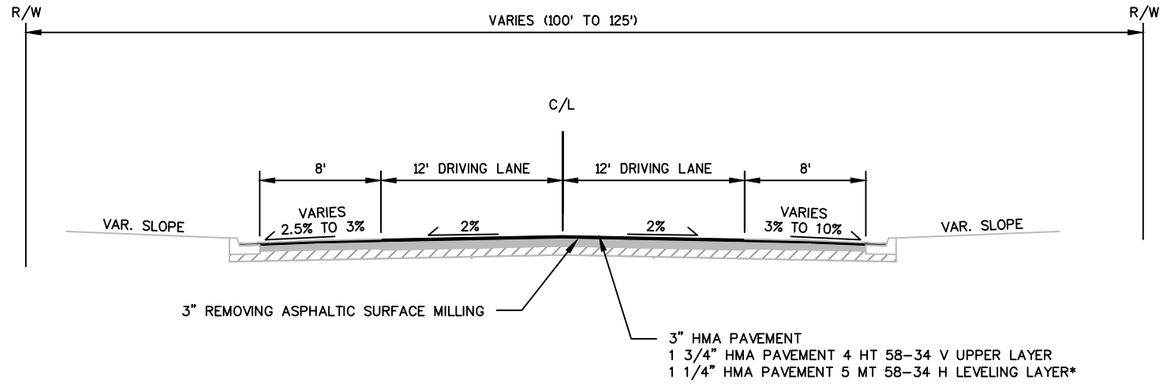
*LEVELING LAYER IS ACCEPTED BY ORDINARY COMPACTION. NO INCENTIVE DENSITY HMA PAVEMENT PAY ADJUSTMENT WILL BE MADE FOR THIS WORK

PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK	FINISHED TYPICAL SECTIONS	SHEET 14	E



FINISHED TYPICAL SECTION

STATION 454+05 – STATION 457+56
STATION 461+36 – STATION 466+78



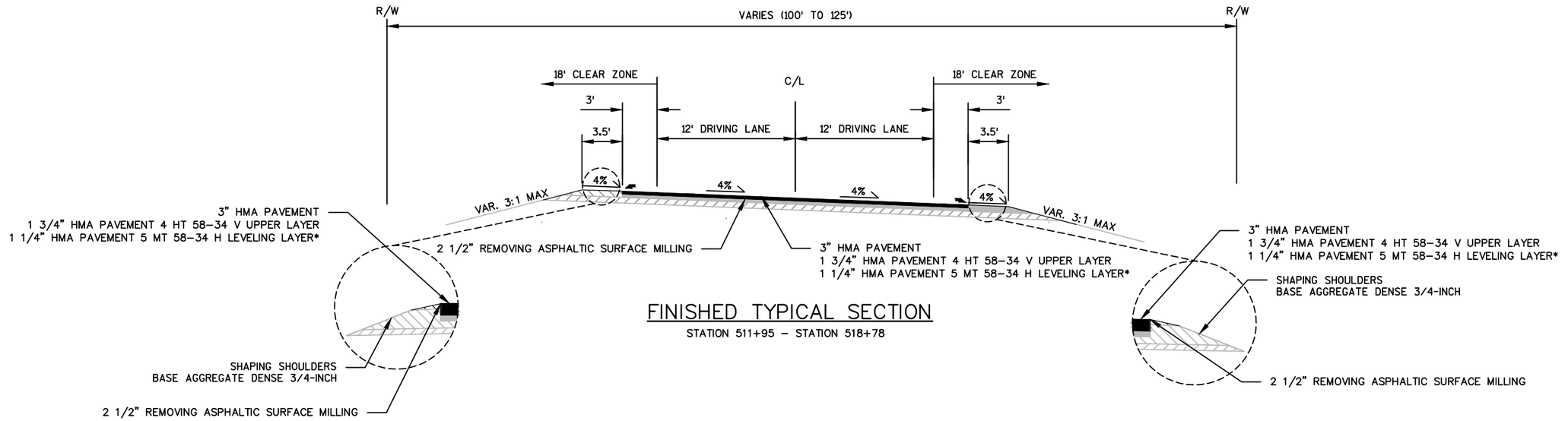
FINISHED TYPICAL SECTION

STATION 457+56 – STATION 461+36

SAFETY EDGE REQUIRED

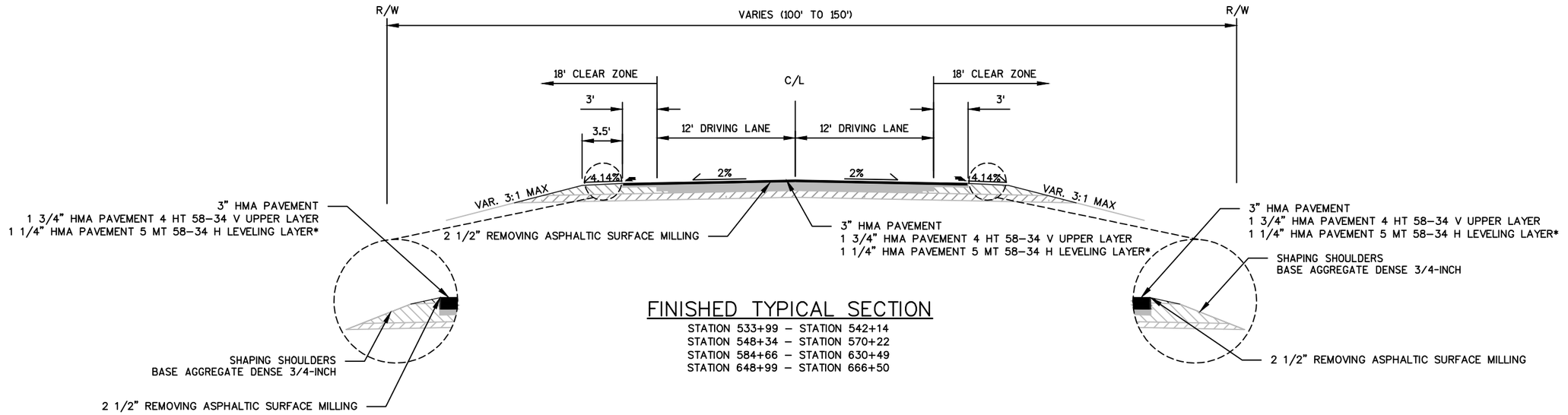
*LEVELING LAYER IS ACCEPTED BY ORDINARY COMPACTION. NO INCENTIVE DENSITY HMA PAVEMENT PAY ADJUSTMENT WILL BE MADE FOR THIS WORK

2



FINISHED TYPICAL SECTION

STATION 511+95 – STATION 518+78



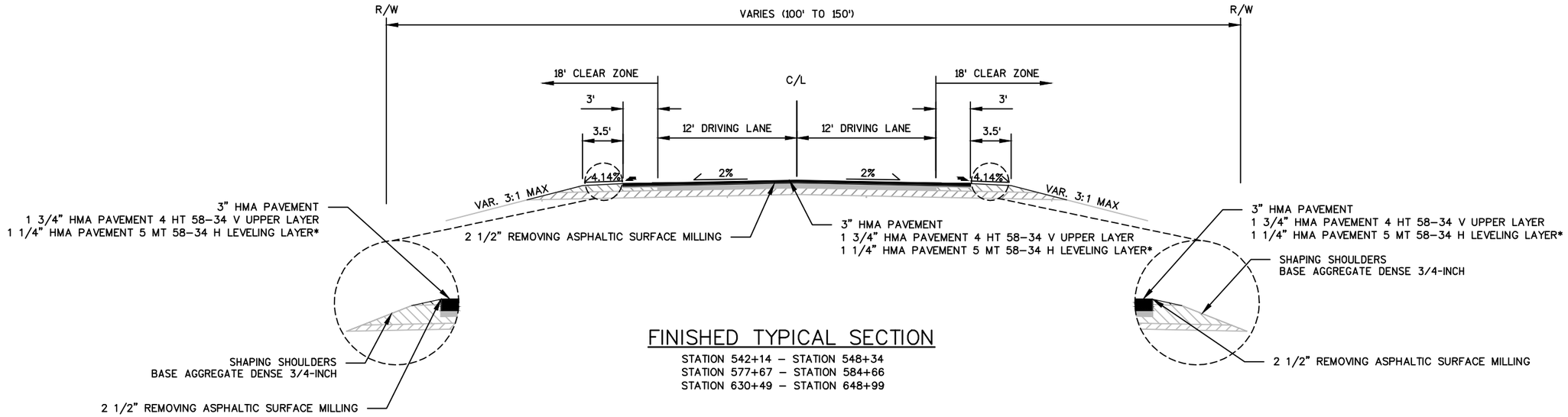
FINISHED TYPICAL SECTION

STATION 533+99 – STATION 542+14
STATION 548+34 – STATION 570+22
STATION 584+66 – STATION 630+49
STATION 648+99 – STATION 666+50

SAFETY EDGE REQUIRED

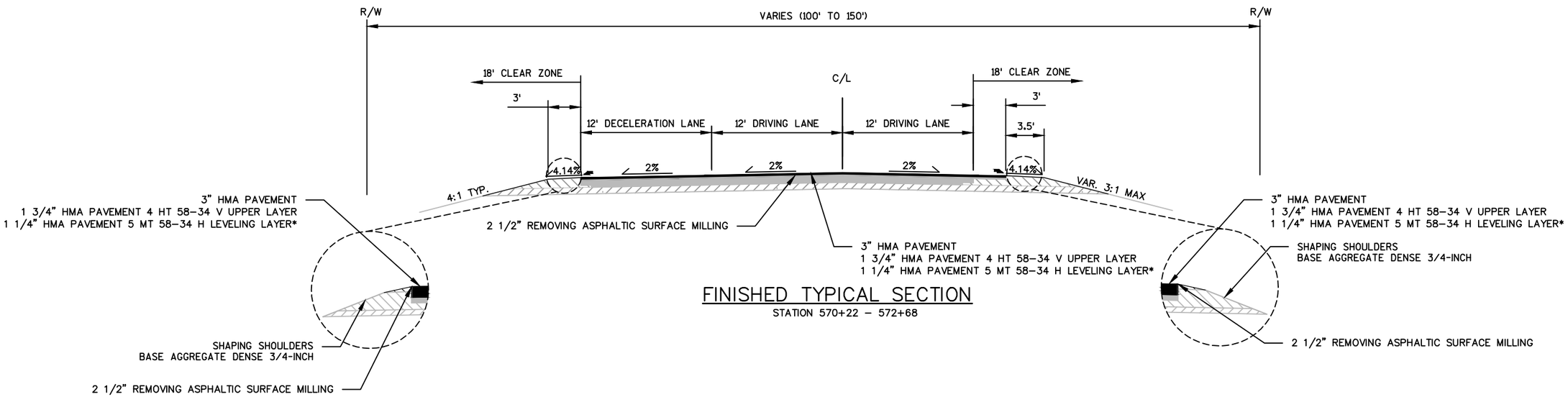
*LEVELING LAYER IS ACCEPTED BY ORDINARY COMPACTION. NO INCENTIVE DENSITY HMA PAVEMENT PAY ADJUSTMENT WILL BE MADE FOR THIS WORK

2



FINISHED TYPICAL SECTION

STATION 542+14 – STATION 548+34
STATION 577+67 – STATION 584+66
STATION 630+49 – STATION 648+99



FINISHED TYPICAL SECTION

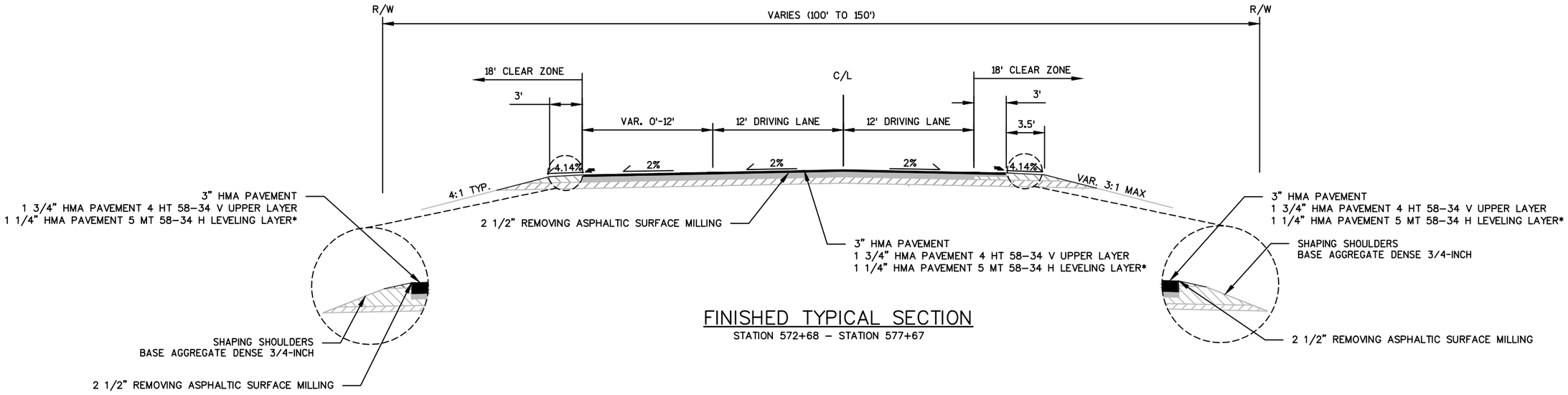
STATION 570+22 – 572+68

SAFETY EDGE REQUIRED

*LEVELING LAYER IS ACCEPTED BY ORDINARY COMPACTION. NO INCENTIVE DENSITY HMA PAVEMENT PAY ADJUSTMENT WILL BE MADE FOR THIS WORK

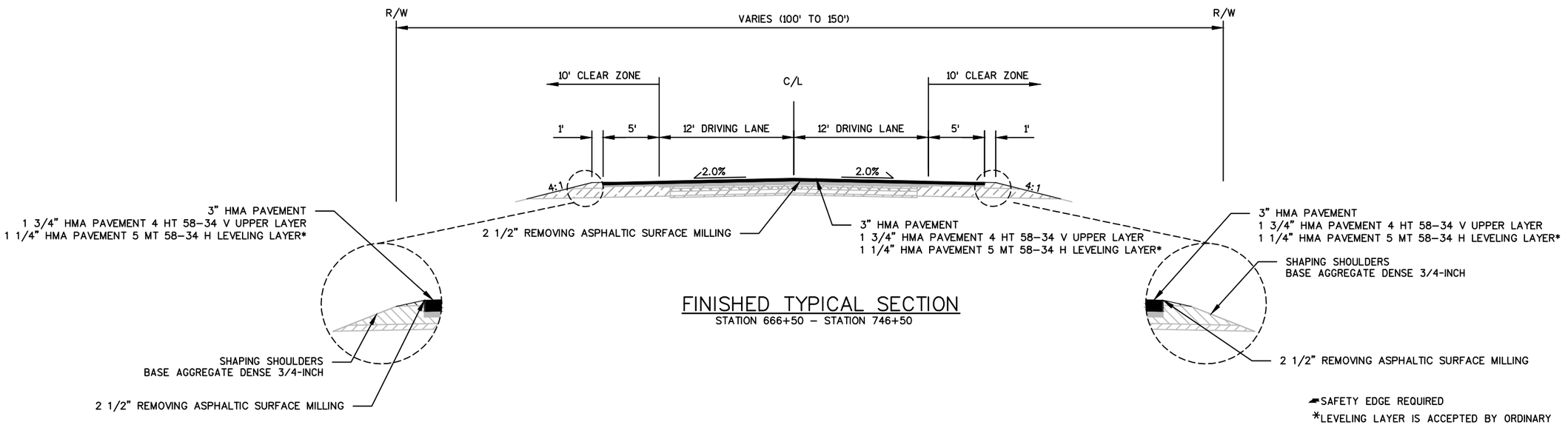
PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK	FINISHED TYPICAL SECTIONS	SHEET 17	E

2



FINISHED TYPICAL SECTION

STATION 572+68 – STATION 577+67



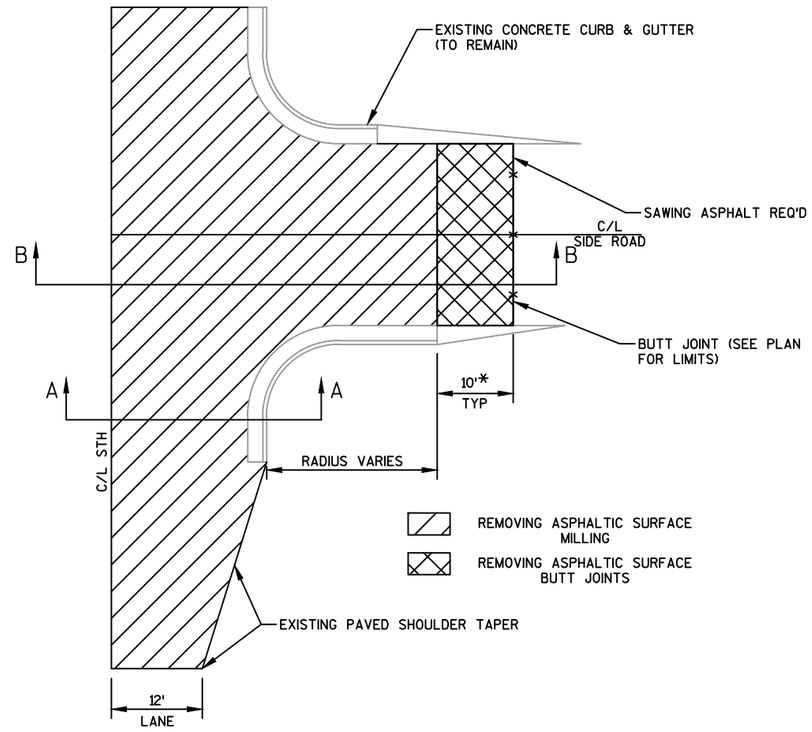
FINISHED TYPICAL SECTION

STATION 666+50 – STATION 746+50

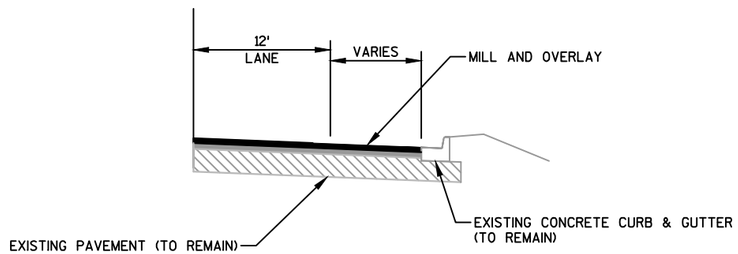
SAFETY EDGE REQUIRED

*LEVELING LAYER IS ACCEPTED BY ORDINARY COMPACTION. NO INCENTIVE DENSITY HMA PAVEMENT PAY ADJUSTMENT WILL BE MADE FOR THIS WORK

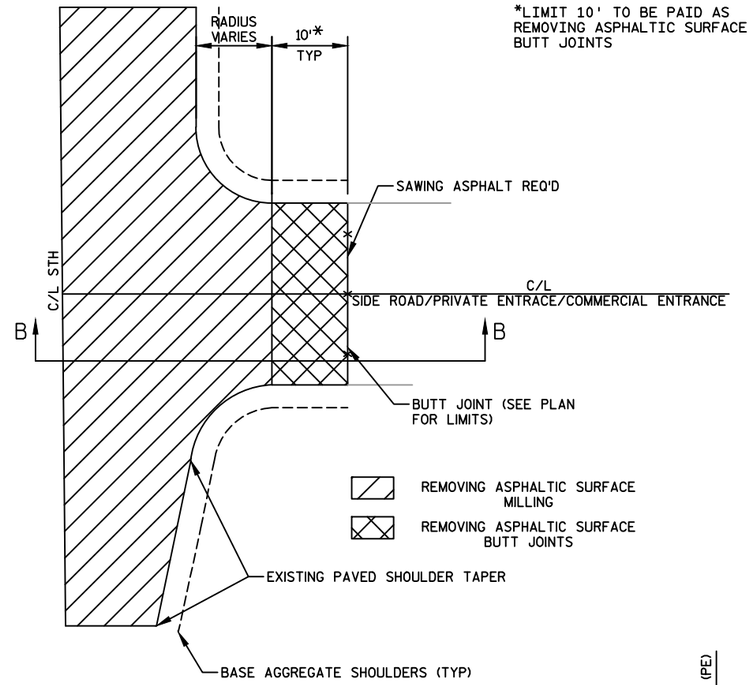
PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK	FINISHED TYPICAL SECTIONS	SHEET 18	E



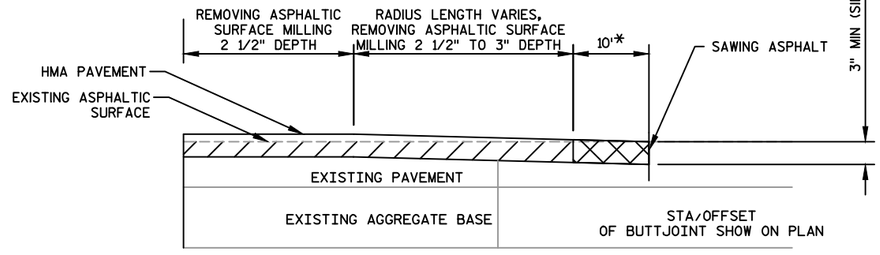
PLAN VIEW
SIDE ROAD WITH CURB & GUTTER



SECTION A-A



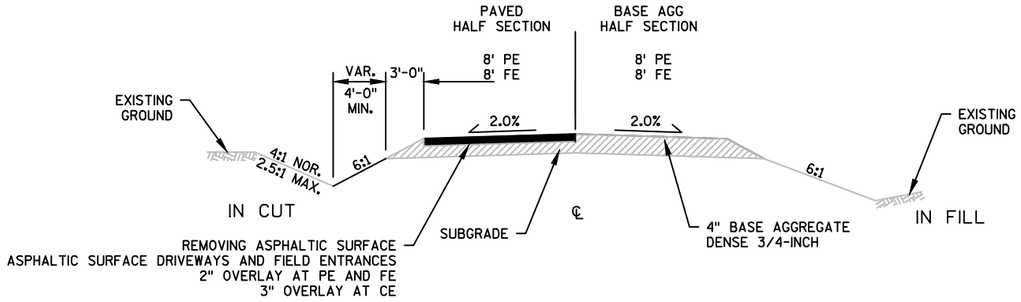
PLAN VIEW
SIDE ROAD/PRIVATE ENTRACE/COMMERCIAL ENTRANCE



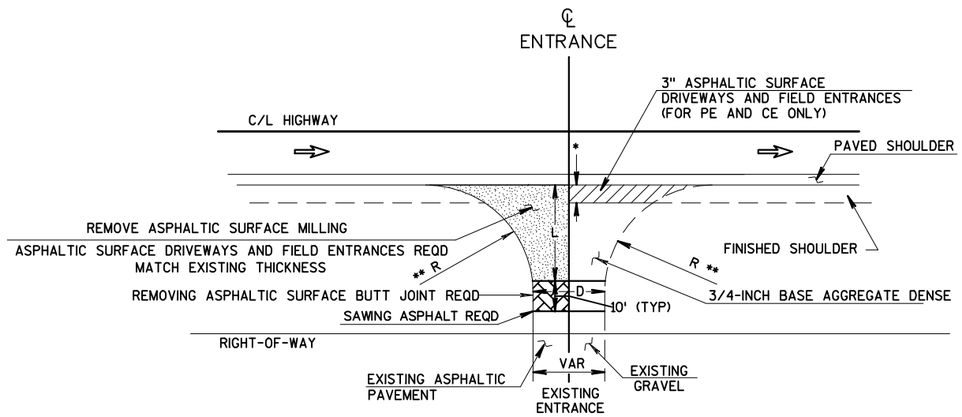
NOTE:
EXISTING ASPHALT MAY BE LESS THAN 3". MILL EXISTING AGGREGATE BASE TO ACHIEVE A 3" MINIMUM DEPTH FOR NEW PAVEMENT. MAINTAIN THE SPECIFIED UPPER LAYER HMA PAVEMENT THICKNESS, WEDGE THE LOWER LAYER IF NECESSARY.

SECTION B-B

BUTT JOINT DETAIL - SIDE ROAD/COMMERCIAL ENTRANCE/PRIVATE ENTRANCE



TYPICAL CROSS SECTION FOR PRIVATE, FIELD, OR COMMERCIAL ENTRANCE



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

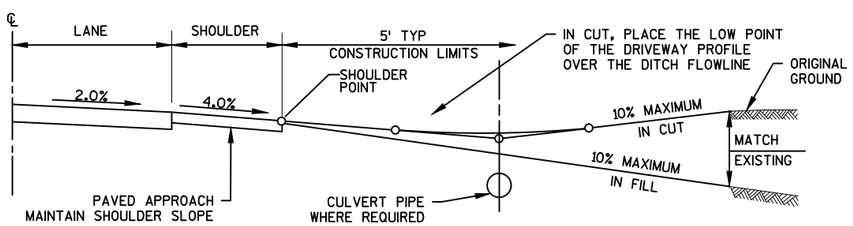
D=DRIVEWAY WIDTH
D=20'TYP(PE's & FE's) (16'MIN-24'MAX)
D=28'TYP(CE's & FARM ENT) (24'MIN-35'MAX)

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

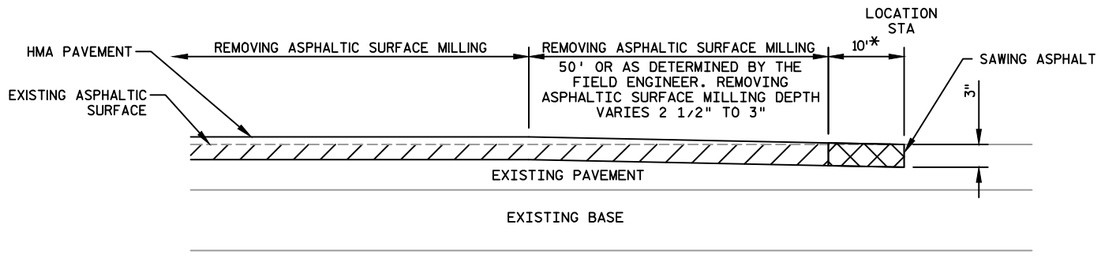
* 3' MIN OR TO FINISHED SHOULDER
WHICH EVER IS GREATER

PLAN VIEW

RURAL DRIVEWAY INTERSECTION DETAIL (PE, FE & CE)
(FOR RESURFACING PROJECTS)



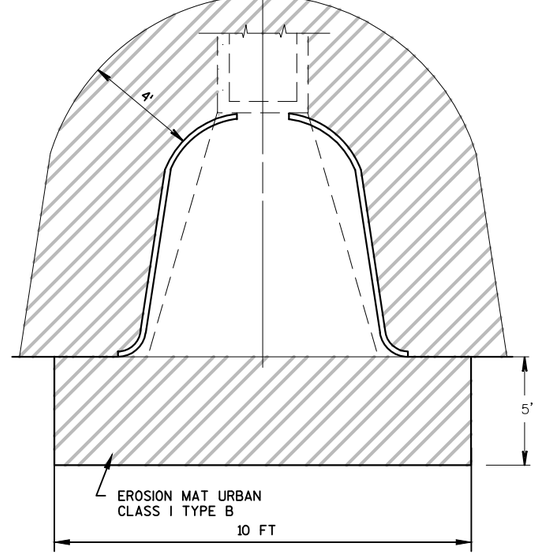
TYPICAL PROFILE FOR PRIVATE, FIELD OR COMMERCIAL ENTRANCE



BUTT JOINT DETAIL, MAINLINE

STA 232+00 & 746+50

*LIMIT 10' TO BE PAID AS REMOVING ASPHALTIC SURFACE BUTT JOINTS

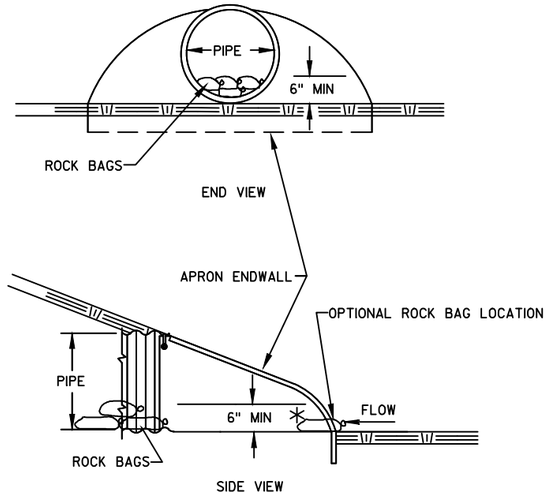


EROSION CONTROL AT PIPE ENDS

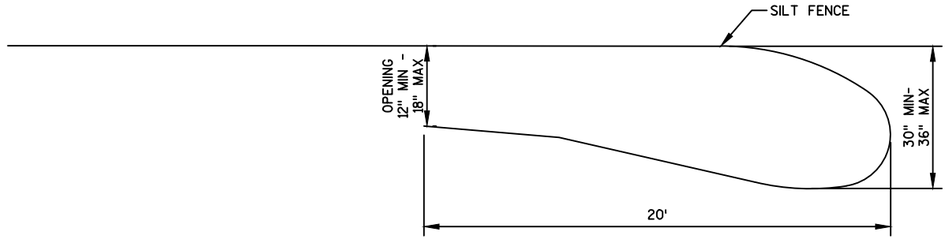
TO BE USED IF DITCH GRADING IS
DETERMINED NECESSARY BY FIELD ENGINEER

FILE NAME : \\BHASERVER14\PROJECTS\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\021001-CD.DWG PLOT DATE : 9/21/2017 8:39 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : ----------
WISDOT/CADDS SHEET 42

2



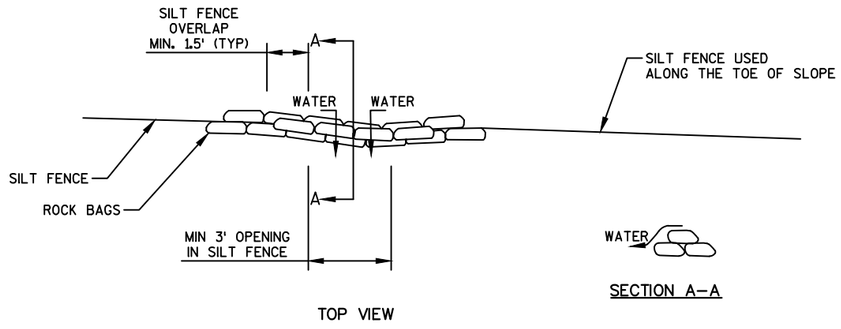
CULVERT PIPE CHECKS



NOTES
THE PURPOSE OF THE TURTLE TURN-AROUNDS ARE TO REDIRECT THE TURTLES AWAY FROM THE CONSTRUCTION ZONE. DESIGN SHOULD ALSO INCLUDE TRENCHED-IN SEDIMENT FENCING AND FENCING SUPPORTS ON UPSLOPE SIDE OF THE FENCE. SILT FENCE POSTS FOR THE TURN-AROUND SHOULD BE ON THE OUTSIDE OF THE TURN-AROUND.

TEMPORARY TURTLE TURN-AROUND DETAIL

PLAN VIEW



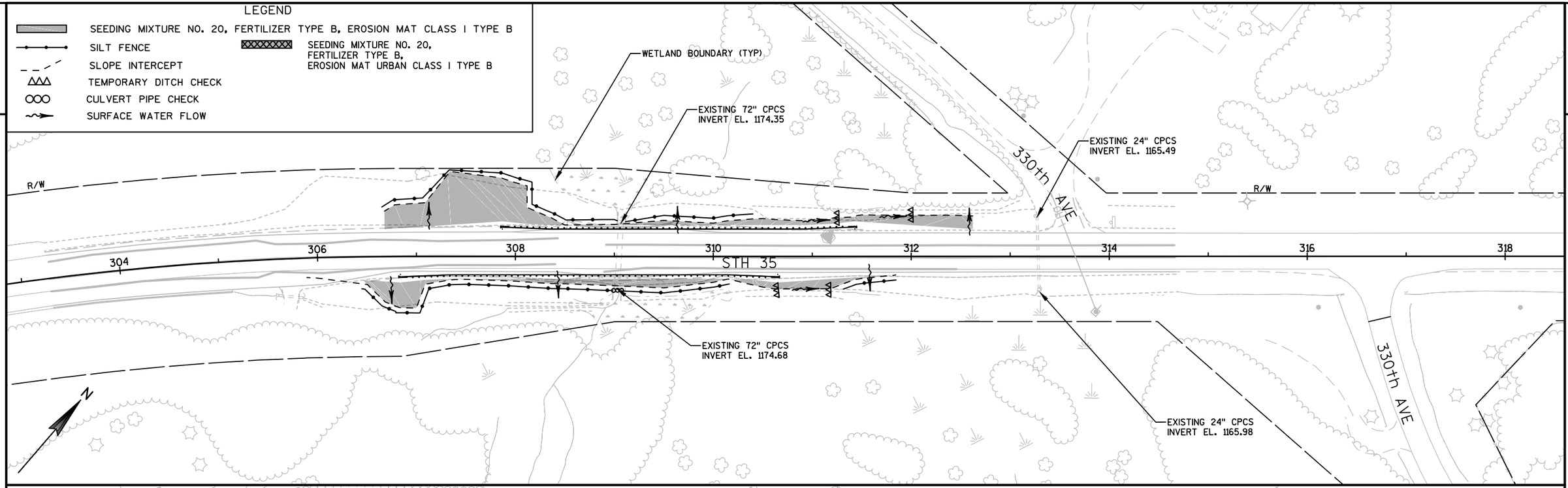
ROCK BAGS USED FOR SILT FENCE RELIEF

PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK	CONSTRUCTION DETAILS	SHEET	E

FILE NAME : \\BHASERVER14\PROJECTS\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\021001-CD.DWG PLOT DATE : 9/21/2017 8:39 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : ----------
WISDOT/CADDS SHEET 42

LEGEND

- SEEDING MIXTURE NO. 20, FERTILIZER TYPE B, EROSION MAT CLASS I TYPE B
- SILT FENCE
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SEEDING MIXTURE NO. 20, FERTILIZER TYPE B, EROSION MAT URBAN CLASS I TYPE B



PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	EROSION CONTROL STH 35	SHEET 22	E

2

EXISTING 48" CPCS
INVERT EL. 1039.30

EXISTING 24" CPCS
INVERT EL. 1038.28

R/W

115th ST

468 470 STH 35 472 474 476 478 480 482

EXISTING 48" CPCS
INVERT EL. 1039.73

EXISTING 24" CPCS
INVERT EL. 1045.04

R/W

115th ST

CTH E

WETLAND BOUNDARY (TYP)

EXISTING 24" CPCS
INVERT EL. 1009.03

SILT FENCE TURN-AROUND (TYP)
SEE CONSTRUCTION DETAIL

SILT FENCE TURN-AROUND (TYP)
SEE CONSTRUCTION DETAIL

R/W

520 522 524 STH 35 526 528 530 532

R/W

WETLAND BOUNDARY (TYP)

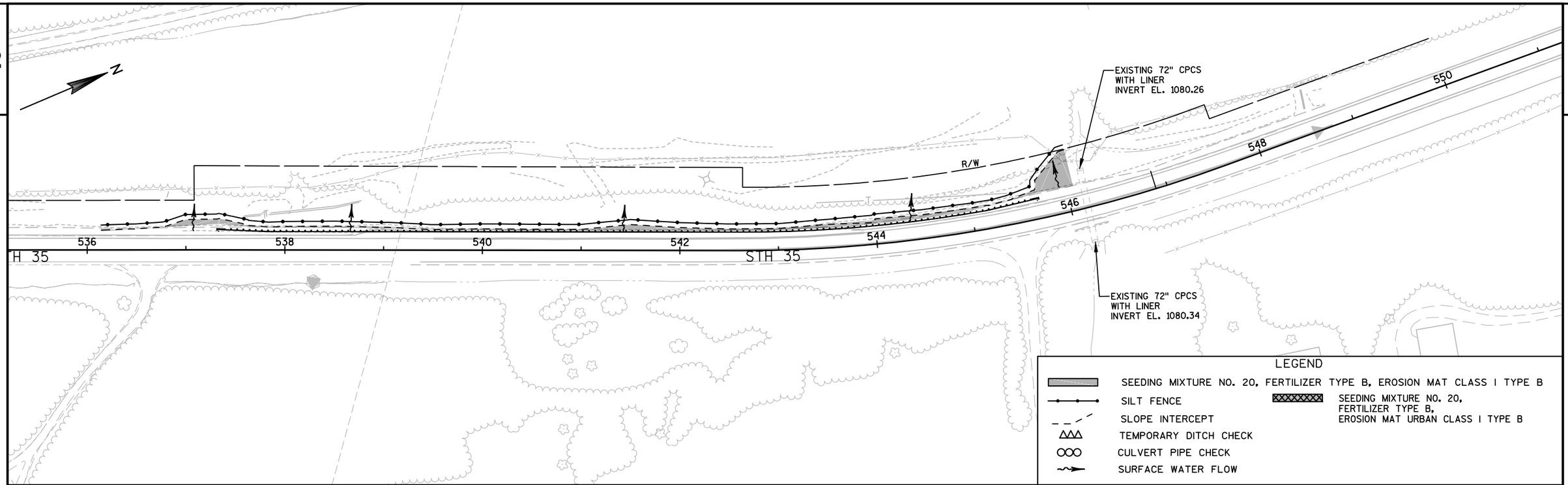
LEGEND

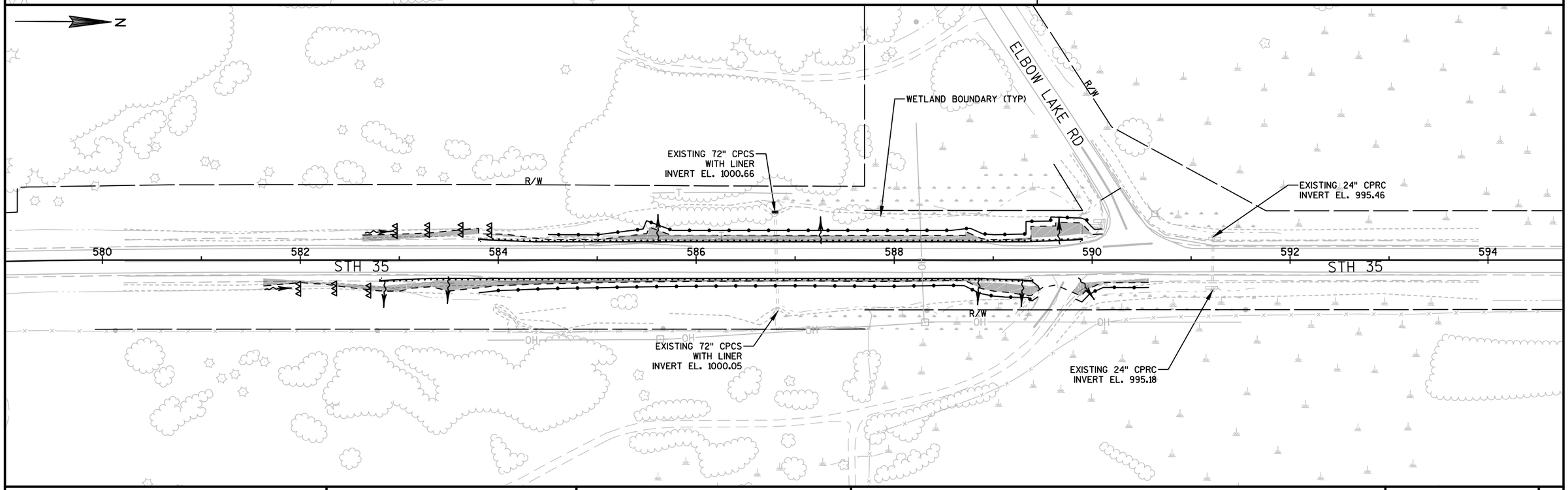
- SEEDING MIXTURE NO. 20, FERTILIZER TYPE B, EROSION MAT CLASS I TYPE B
- SILT FENCE
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SEEDING MIXTURE NO. 20, FERTILIZER TYPE B, EROSION MAT URBAN CLASS I TYPE B

PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	EROSION CONTROL STH 35	SHEET 23	E

FILE NAME : \\BHASERVER14\PROJECTS\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\022001_EC.DWG
LAYOUT NAME - 050407
PLOT DATE : 9/21/2017 9:36 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : PLOT SCALE : 1:100
WISDOT/CADDS SHEET 44

2





PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	EROSION CONTROL STH 35	SHEET 24	E

FILE NAME : \\BHASERVER14\PROJECTS\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\022001_EC.DWG
LAYOUT NAME - 050409

PLOT DATE : 9/21/2017 9:37 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 44

2

BEGIN PROJECT
STA 232+00
Y=366,801.04
X=508,232.18

1-1 STOP R1-1 30"X30"
1-2 STOP R1-1 30"X30"
1-3 SPEED LIMIT 25 R2-1 24"X30"
1-4 SPEED LIMIT 45 R2-1 24"X30"
1-5 ADOPT A HIGHWAY SPONSORED FREDERIC 324 CHURCH SCHOOL I55-56 30"X36"
1-6 ADOPT A HIGHWAY SPONSOR NORTHWEST PASSAGE III I55-56 30"X36"
1-7 SPEED LIMIT 25 W3-5 36"X36"
1-8 SPEED LIMIT 45 R2-1 24"X30"
1-9 SPEED LIMIT 55 R2-1 24"X30"
1-10 NO PASSING ZONE W14-3 48"X36"

POLK ST
POLK AVE
LAKE AVE
STH 35
STH 35
230 232 234 236 238 240 242
MATCH LINE STA 243+00

SIGNING LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- SIGN – MOVE
- SIGN – REMOVE AND REPLACE
- SIGN – REMOVE
- SIGN – PLACE NEW
- SIGN – MOUNTED ON POLE

NO PASSING ZONE SIGN LOCATIONS ARE APPROXIMATE, LOCATION OF NO PASSING ZONE SIGNS TO BE DETERMINED AFTER THE ITEM OF LOCATING NO PASSING ZONES HAS BEEN COMPLETED.

1-11 TOWN OF WEST SWEDEN R1-1 30"X30"
1-12 NORTH M3-1 24"X12" / 35 M1-6 24"X24" / J4-1 24" X 36"
1-13 Siren 11 Superior 81
1-14 NO PASSING ZONE W14-3 48"X36"
1-15 SPEED LIMIT 45 W3-5 36"X36"
1-16 Siren 11 Superior 81 D2-2 72" X 24"
1-17 Frederic POPULATION 1137 I2-3 60"X24"
1-18
1-19 SLOWER TRAFFIC KEEP RIGHT R4-3 24"X30"
1-20 SLOWER TRAFFIC KEEP RIGHT
1-21 STOP R1-1 30"X30"
1-22 STOP R1-1 30"X30"

SIGN
SIGN
SIGN
SIGN
I SIGN

244 246 248 250 252 254 256
STH 35
STH 35
MATCH LINE STA 257+00
150th ST
BENSON RD

PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK	PERMANENT SIGNING	SHEET 25	E

FILE NAME : \\BHASERVER14\PROJECTS\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 050401
PLOT DATE : 09/21/2017 10:14AM
PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : ---------- PLOT SCALE : 1 IN:100 FT

2

150th ST

N

MATCH LINE STA 257+00

258 260 262 264 266 268 270

STH 35

MATCH LINE STA 271+00

SIGN

ATHLETIC FIELD

NO PASSING ZONE SIGN LOCATIONS ARE APPROXIMATE, LOCATION OF NO PASSING ZONE SIGNS TO BE DETERMINED AFTER THE ITEM OF LOCATING NO PASSING ZONES HAS BEEN COMPLETED.

SIGN

MATCH LINE STA 271+00

272 274 276 278 280 282 284

STH 35

MATCH LINE STA 285+00

SIGNING LEGEND

- EXISTING SIGN MOUNTED ON POST(S) / PROPOSED SIGN MOUNTED ON POST(S)
- SIGN – MOVE
- SIGN – REMOVE AND REPLACE
- SIGN – REMOVE
- SIGN – PLACE NEW
- SIGN – MOUNTED ON POLE

N

RIGHT LANE ENDS
W9-1R
36"X36"
2-1

PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK	PERMANENT SIGNING	SHEET 26 E

FILE NAME : \\BHASERVER14\PROJECTS\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 050403
PLOT DATE : 09/21/2017 10:15AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : ---------- PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

NO PASSING ZONE SIGN LOCATIONS ARE APPROXIMATE, LOCATION OF NO PASSING ZONE SIGNS TO BE DETERMINED AFTER THE ITEM OF LOCATING NO PASSING ZONES HAS BEEN COMPLETED.

N

3-1 ONCOMING TRAFFIC USES CENTER LANE R3-72 30"X36"

3-2 W4-2R 36"X36"

3-6 W4-2R 36"X36"

3-7 RIGHT LANE ENDS W9-1R 36"X36"

MATCH LINE STA 285+00

286 288 290 292 294 296 298

STH 35

STH 35

MATCH LINE STA 299+00

SIGN

SIGN

HEIGHT MOD

3-3 W4-2R 36"X36"

3-4 ONCOMING TRAFFIC USES CENTER LANE R3-72 30"X36"

3-5 W4-2R 36"X36"

140th ST

SIGNING LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- SIGN – MOVE
- SIGN – REMOVE AND REPLACE
- SIGN – REMOVE
- SIGN – PLACE NEW
- SIGN – MOUNTED ON POLE

N

3-8 STOP R1-1 30"X30"

140th ST

MATCH LINE STA 299+00

300 302 304 306 308 310 312

STH 35

STH 35

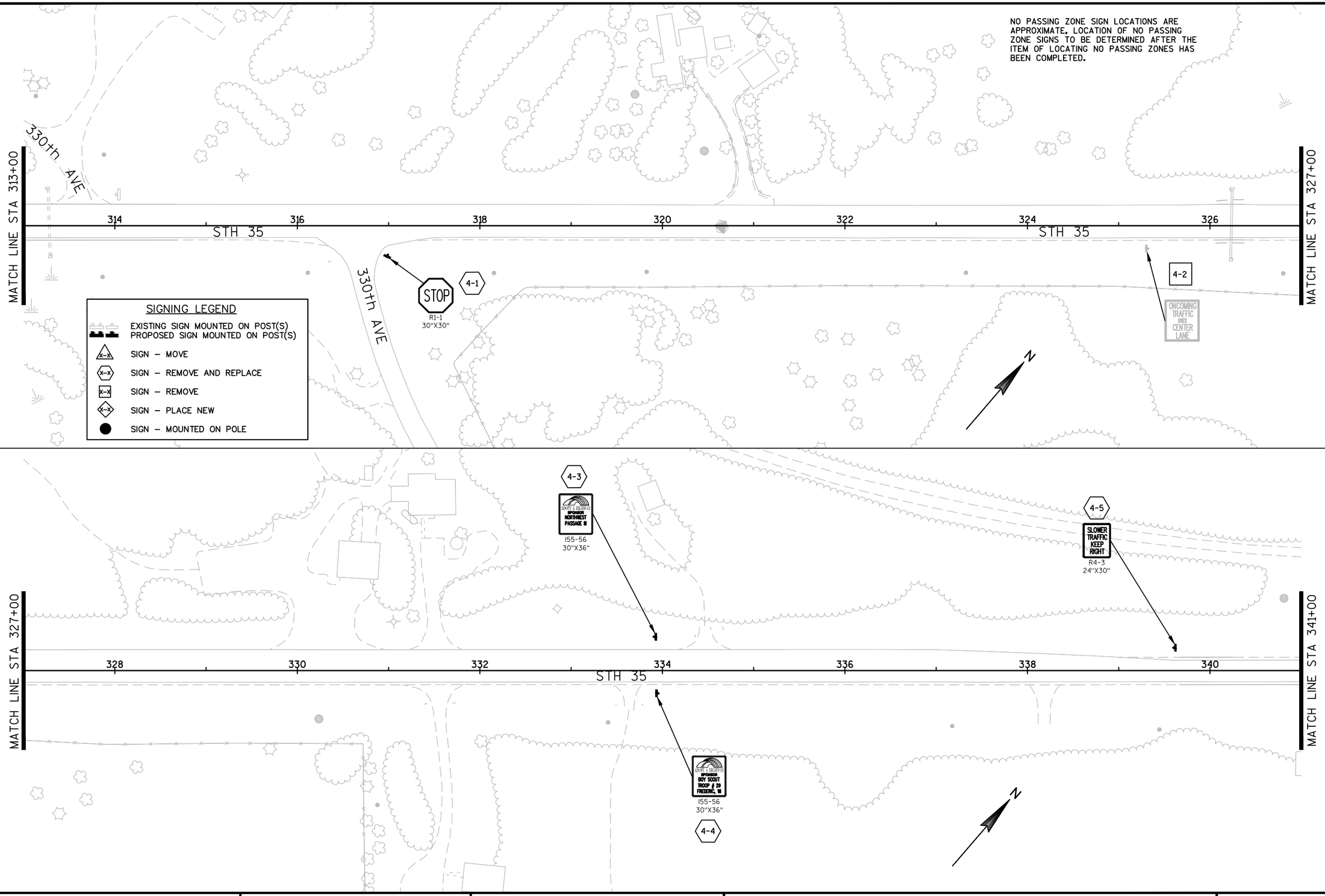
MATCH LINE STA 313+00

3-9 STOP R1-1 30"X30"

PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK	PERMANENT SIGNING	SHEET 27	E

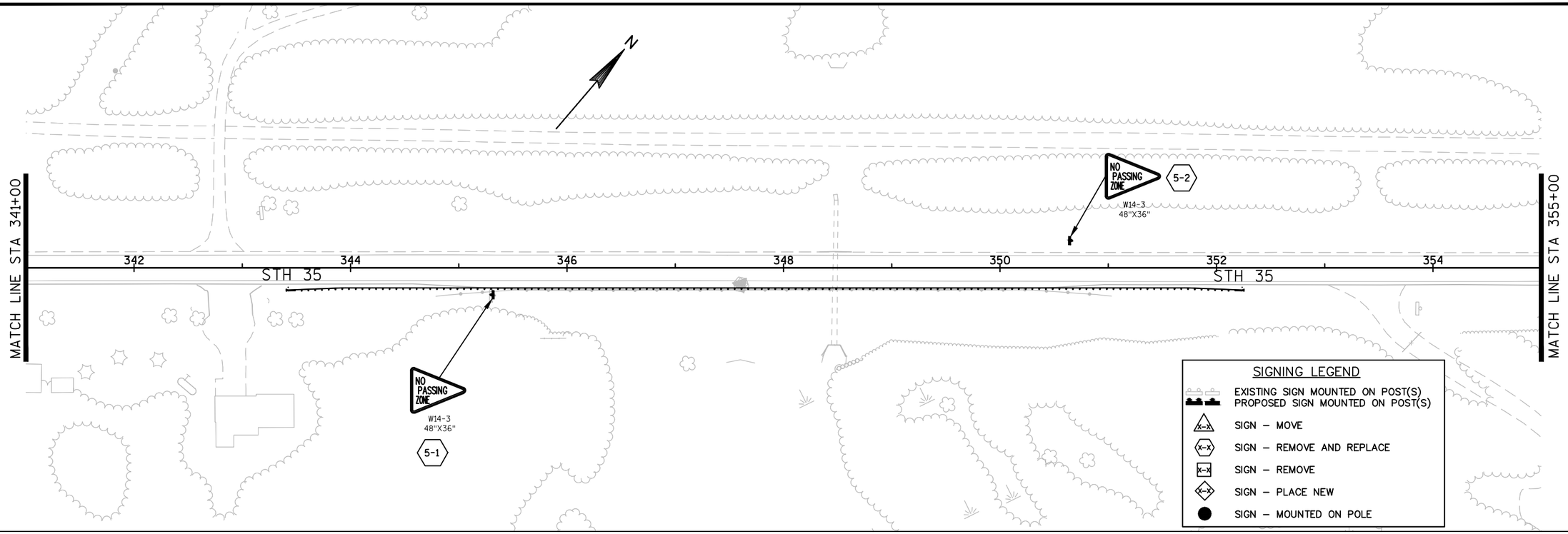
FILE NAME : \\BHASERVER14\PROJECTS\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 050405
PLOT DATE : 09/21/2017 10:15AM
PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : ---------- PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

NO PASSING ZONE SIGN LOCATIONS ARE APPROXIMATE, LOCATION OF NO PASSING ZONE SIGNS TO BE DETERMINED AFTER THE ITEM OF LOCATING NO PASSING ZONES HAS BEEN COMPLETED.

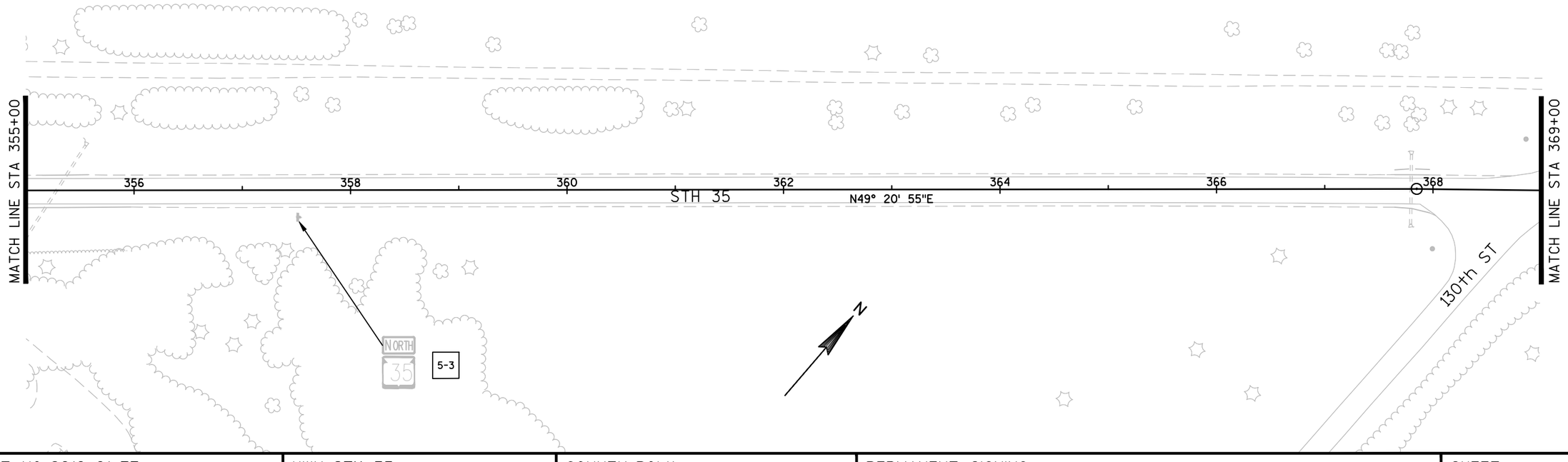


PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK	PERMANENT SIGNING	SHEET 28	E

2



NO PASSING ZONE SIGN LOCATIONS ARE APPROXIMATE, LOCATION OF NO PASSING ZONE SIGNS TO BE DETERMINED AFTER THE ITEM OF LOCATING NO PASSING ZONES HAS BEEN COMPLETED.

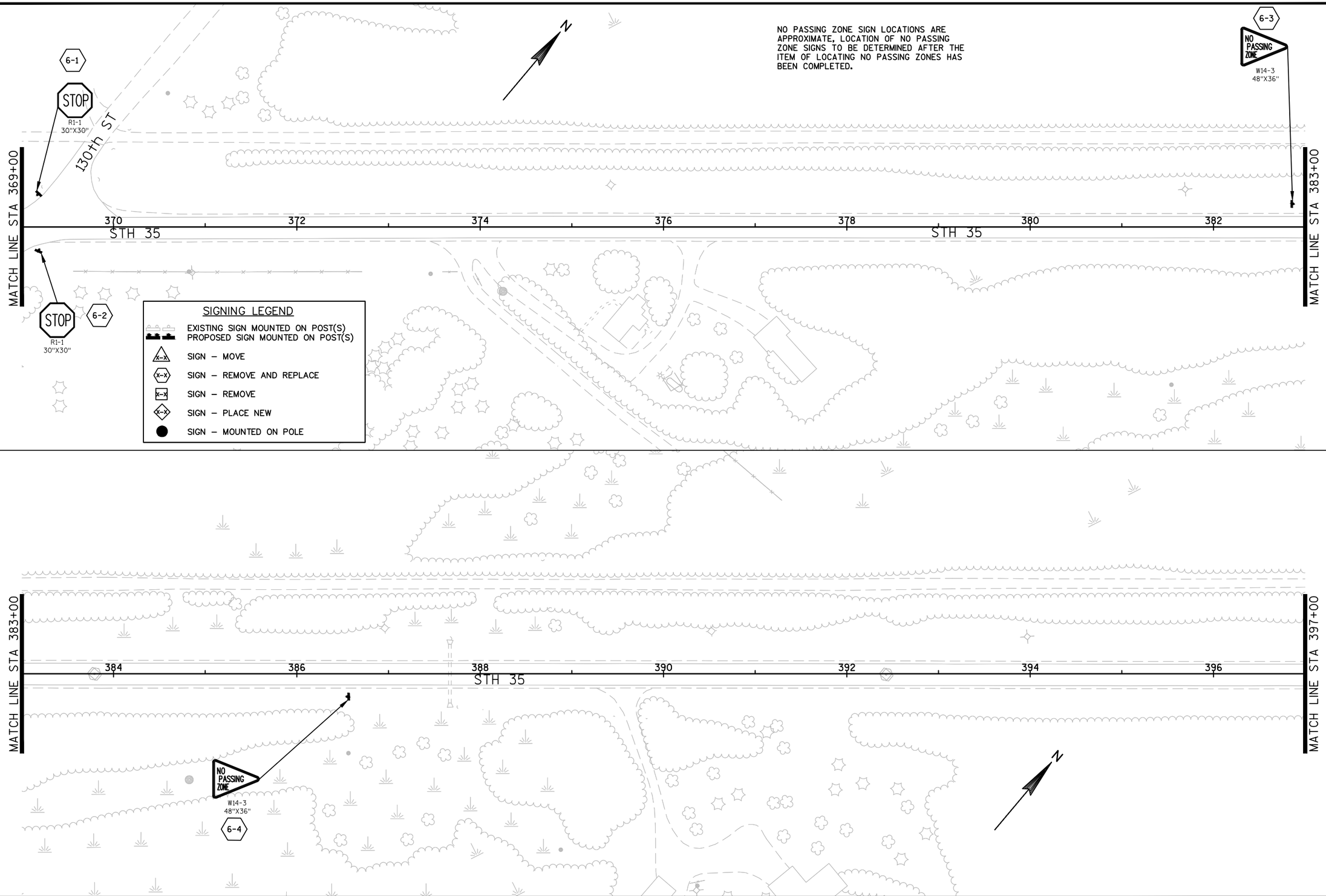


PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK	PERMANENT SIGNING	SHEET 29	E

FILE NAME : \\BHASERVER14\PROJECTS\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 050409
PLOT DATE : 09/21/2017 10:17AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : _____ PLOT SCALE : 1 IN:100 FT

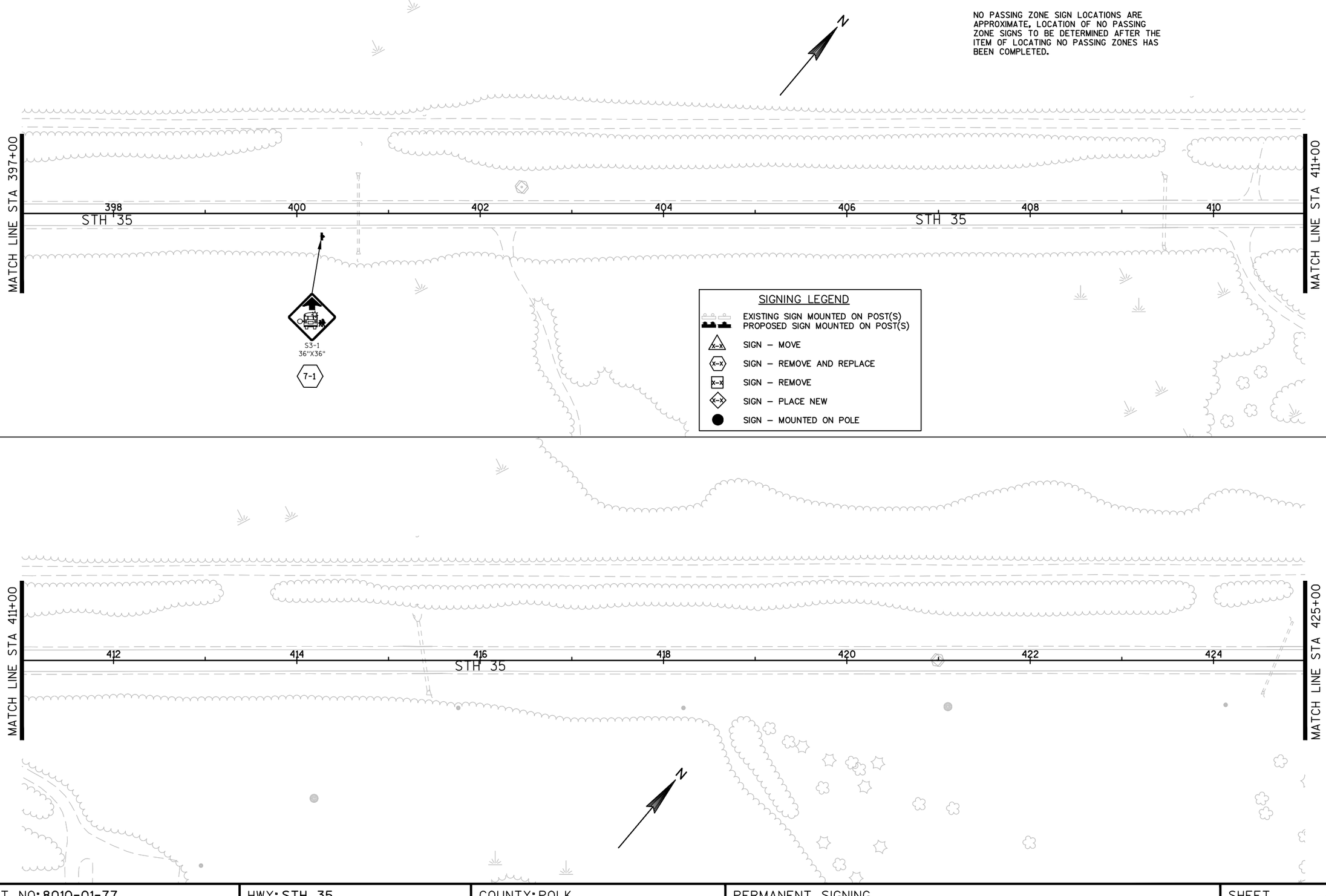
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NO PASSING ZONE SIGN LOCATIONS ARE APPROXIMATE, LOCATION OF NO PASSING ZONE SIGNS TO BE DETERMINED AFTER THE ITEM OF LOCATING NO PASSING ZONES HAS BEEN COMPLETED.



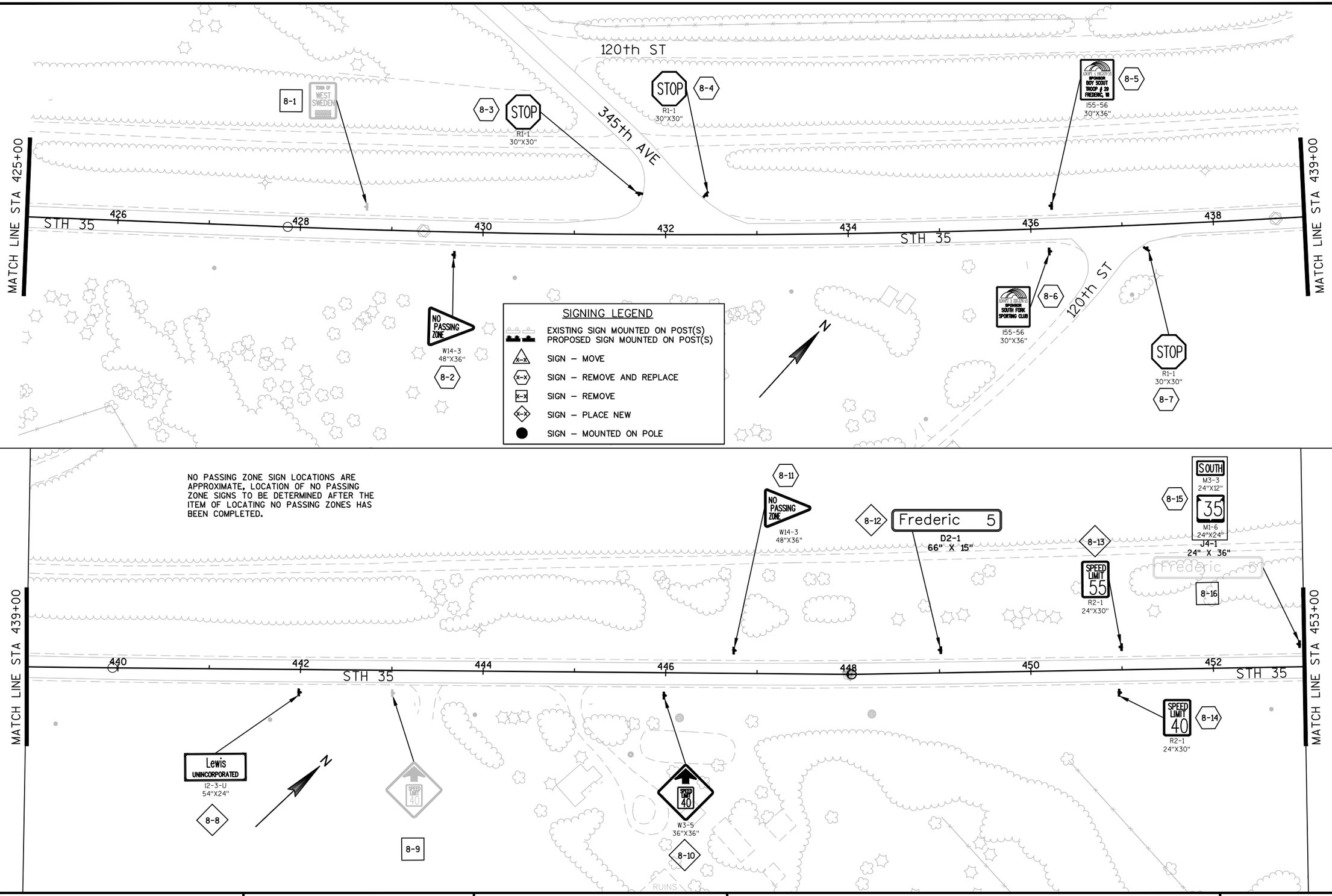
PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK	PERMANENT SIGNING	SHEET 30	E

NO PASSING ZONE SIGN LOCATIONS ARE APPROXIMATE, LOCATION OF NO PASSING ZONE SIGNS TO BE DETERMINED AFTER THE ITEM OF LOCATING NO PASSING ZONES HAS BEEN COMPLETED.



PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK	PERMANENT SIGNING	SHEET 31 E

2



PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK	PERMANENT SIGNING	SHEET 32	E

NO PASSING ZONE SIGN LOCATIONS ARE APPROXIMATE, LOCATION OF NO PASSING ZONE SIGNS TO BE DETERMINED AFTER THE ITEM OF LOCATING NO PASSING ZONES HAS BEEN COMPLETED.

DELINEATORS FLEXIBLE
(YELLOW POST, YELLOW REFLECTIVE SHEETING)
INSTALL WITH REFLECTIVE SHEETING FACING AWAY FROM STH 35

SIGNING LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- SIGN – MOVE
- SIGN – REMOVE AND REPLACE
- SIGN – REMOVE
- SIGN – PLACE NEW
- SIGN – MOUNTED ON POLE

MATCH LINE STA 453+00

MATCH LINE STA 467+00

454 456 458 460 462 464 466

STH 35

MAIN AVE

PINE AVE

118th ST

117th ST

OAK AVE

9-1 SPEED LIMIT 55

9-2 STOP R1-1 30"X30"

9-3 SPEED LIMIT 40 R2-1 24"X30"

9-4 STOP R1-1 30"X30"

9-5 STOP R1-1 30"X30"

9-6 SPEED LIMIT 40

9-7 SPEED LIMIT 40 R2-1 24"X30"

10' TYP

10'

5'

DELINEATORS FLEXIBLE
(YELLOW POST, YELLOW REFLECTIVE SHEETING)
INSTALL WITH REFLECTIVE SHEETING FACING AWAY FROM STH 35

MATCH LINE STA 467+00

MATCH LINE STA 481+00

468 470 472 474 476 478 480

STH 35

115th ST

CTH E

9-8 NO PASSING ZONE W14-3 48"X36"

9-9 JCT M2-1 21"X15" COUNTY E M1-5A 24"X24" J1-1 24" X 39"

9-10 NO PASSING ZONE W14-3 48"X36"

9-11 Clam Falls D1-1 78" X 15"

9-12 SPEED LIMIT 40 R2-1 24"X30"

9-13 SPEED LIMIT 40

9-14 SOUTH M3-3 24"X12" 35 M1-6 24"X24" J4-1 24" X 36"

9-15 COUNTY E M1-5A 24"X24" M6-1 21"X21" J13-1 24" X 45"

9-16 STOP R1-1 30"X30"

9-17 STOP R1-1 30"X30"

9-18 35 M1-6 24"X24" M6-4 21"X21" J13-1 24"X45"

9-19 COUNTY E M1-5A 24"X24" M6-1 21"X21" J13-1 24" X 45"

9-20 NORTH M3-1 24"X12" 35 M1-6 24"X24" J4-1 24" X 36"

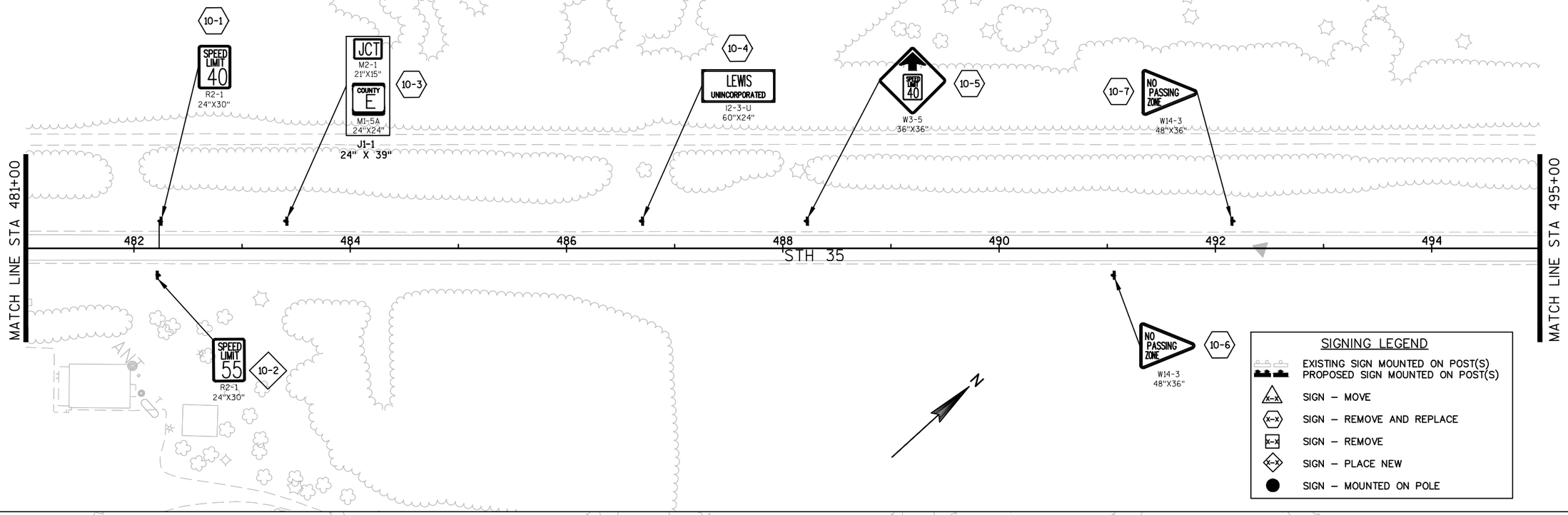
9-21 Siren 6

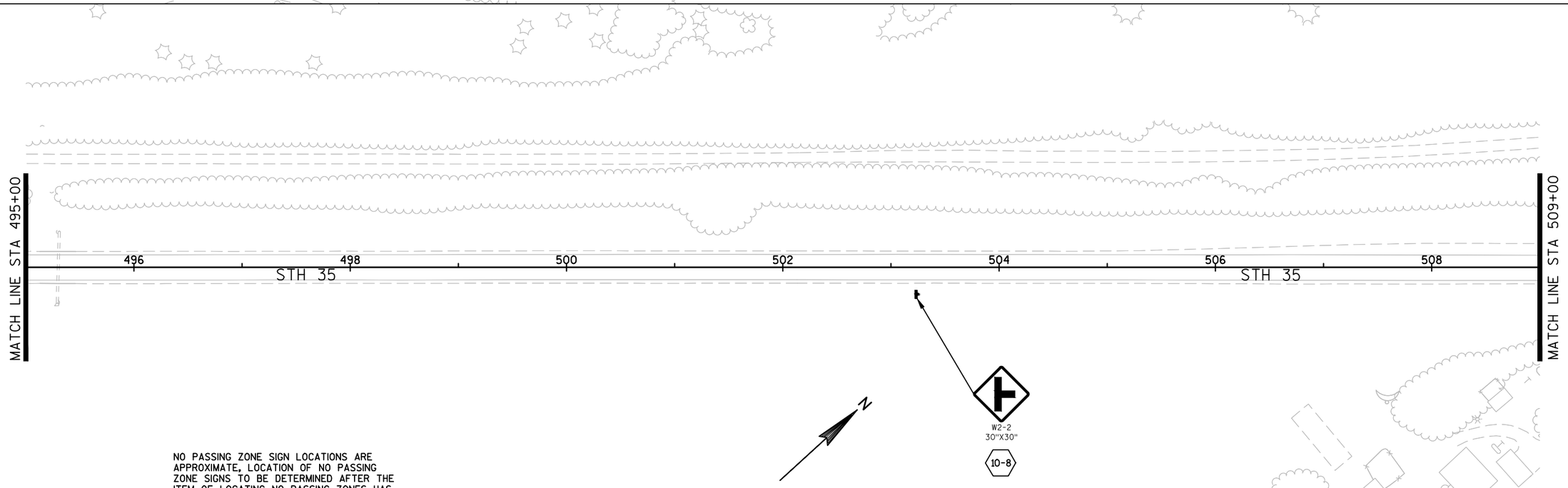
9-22 SPEED LIMIT 55

9-23 Clam Falls D1-1 78" X 15"

9-24 Siren 6 D2-1 54" X 15"

PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK	PERMANENT SIGNING	SHEET 33 E



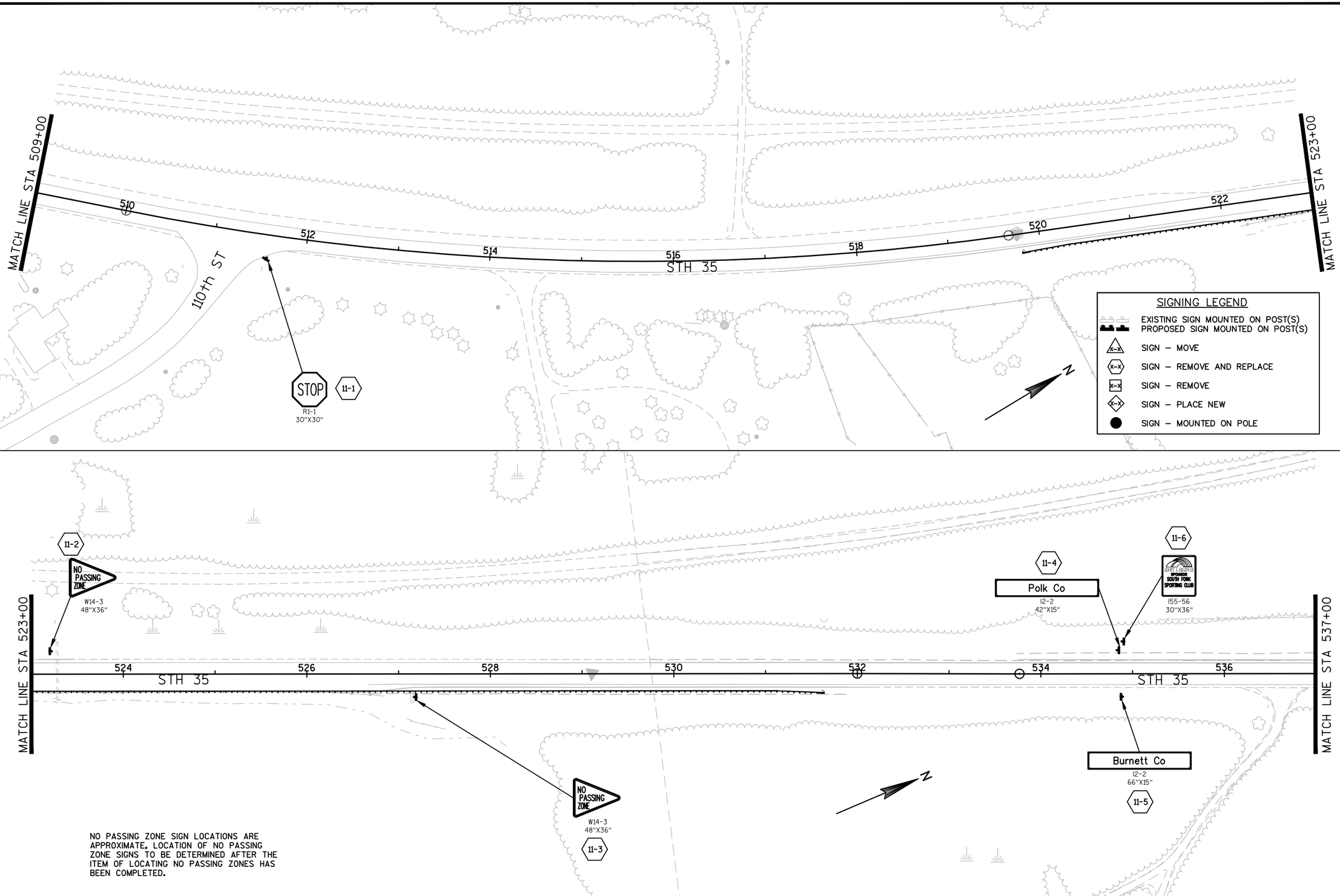


NO PASSING ZONE SIGN LOCATIONS ARE APPROXIMATE. LOCATION OF NO PASSING ZONE SIGNS TO BE DETERMINED AFTER THE ITEM OF LOCATING NO PASSING ZONES HAS BEEN COMPLETED.

PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK	PERMANENT SIGNING	SHEET 34 E

FILE NAME : \\BHASERVER14\PROJECTS\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 050419
PLOT DATE : 09/21/2017 10:20AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : ---------- PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

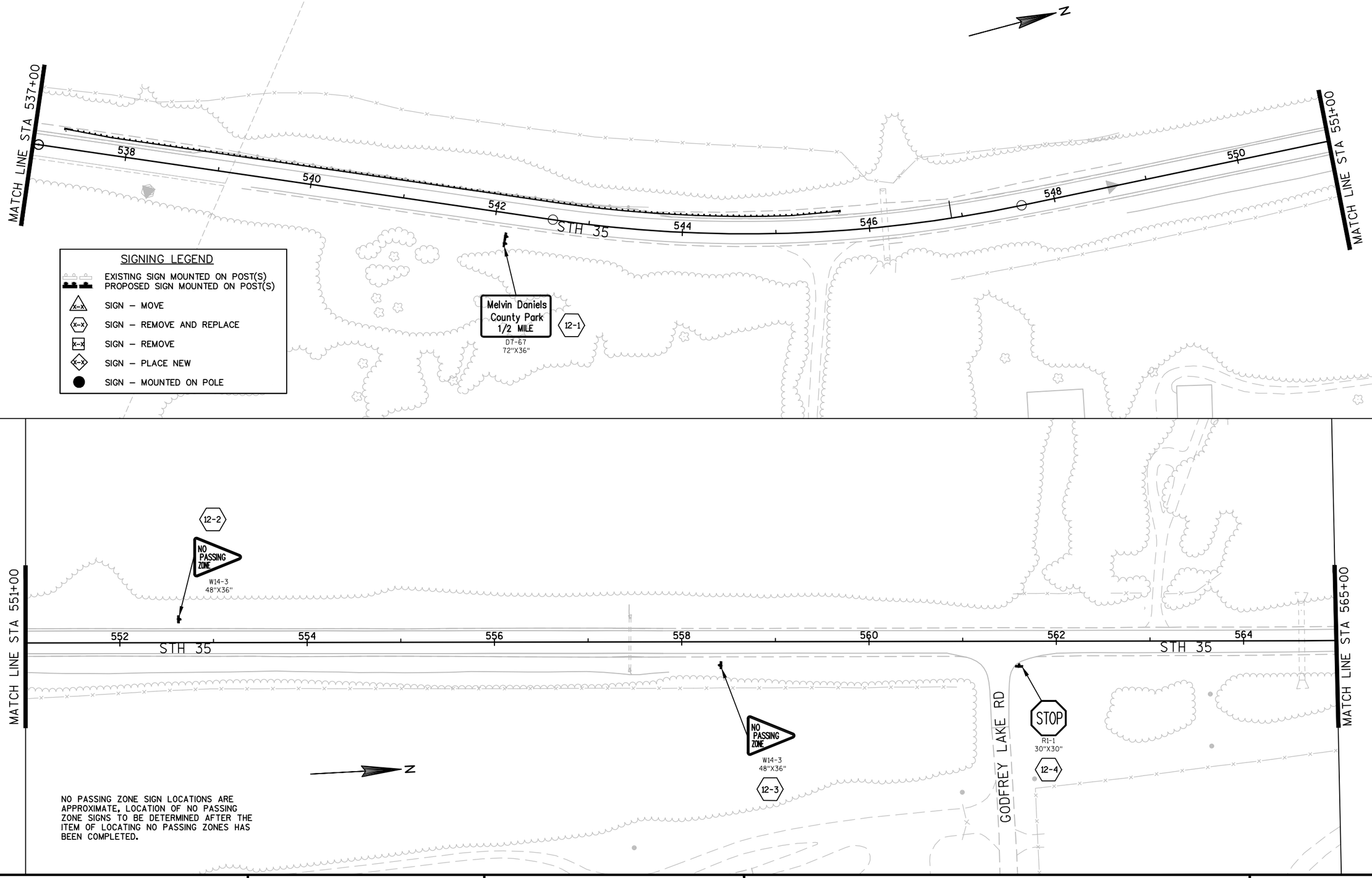
2



NO PASSING ZONE SIGN LOCATIONS ARE APPROXIMATE, LOCATION OF NO PASSING ZONE SIGNS TO BE DETERMINED AFTER THE ITEM OF LOCATING NO PASSING ZONES HAS BEEN COMPLETED.

PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK	PERMANENT SIGNING	SHEET 35	E

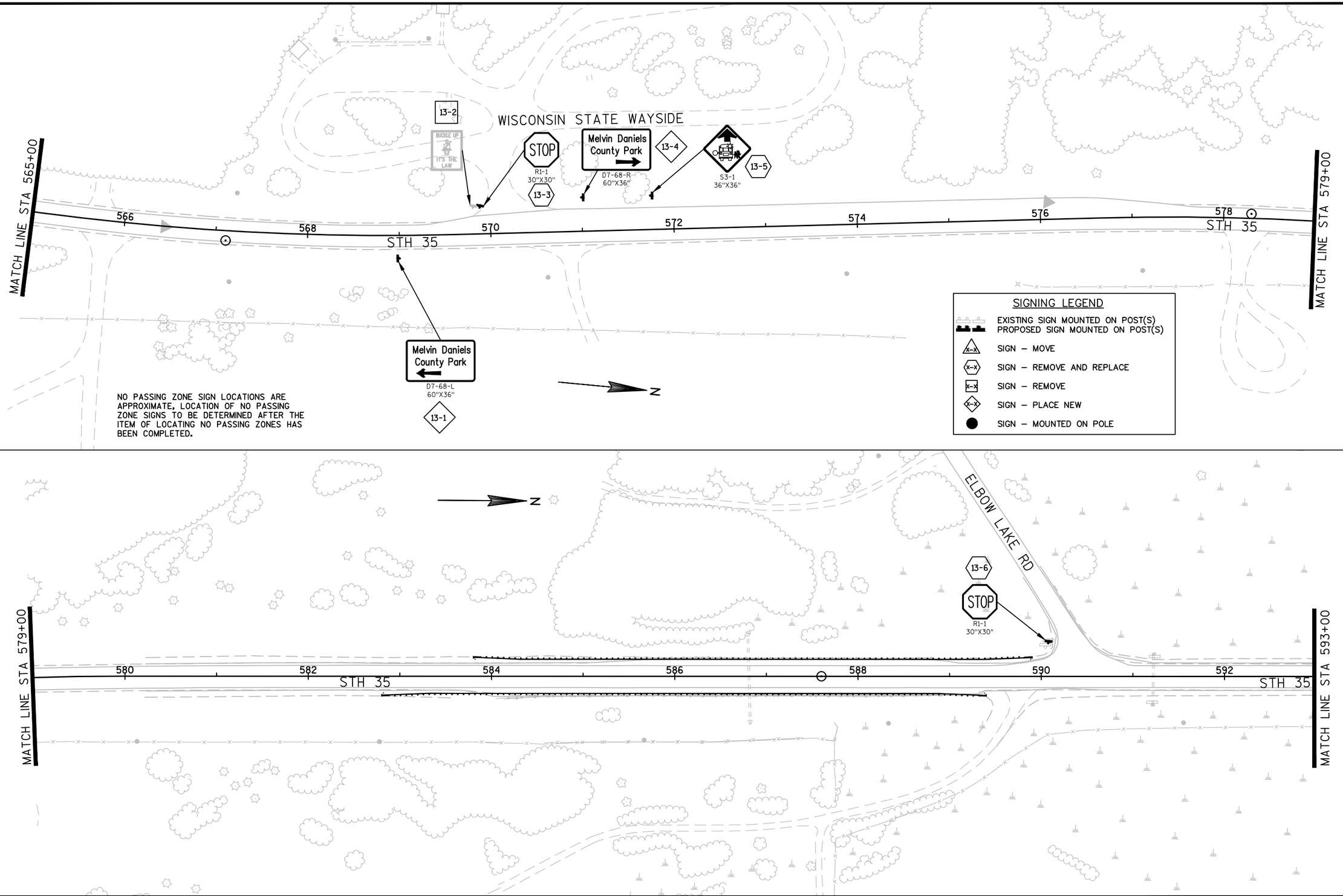
2



PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK	PERMANENT SIGNING	SHEET 36	E

FILE NAME : \\BHASERVER14\PROJECTS\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 050423
PLOT DATE : 09/21/2017 10:21AM
PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : ---------- PLOT SCALE : 1 IN:100 FT

2

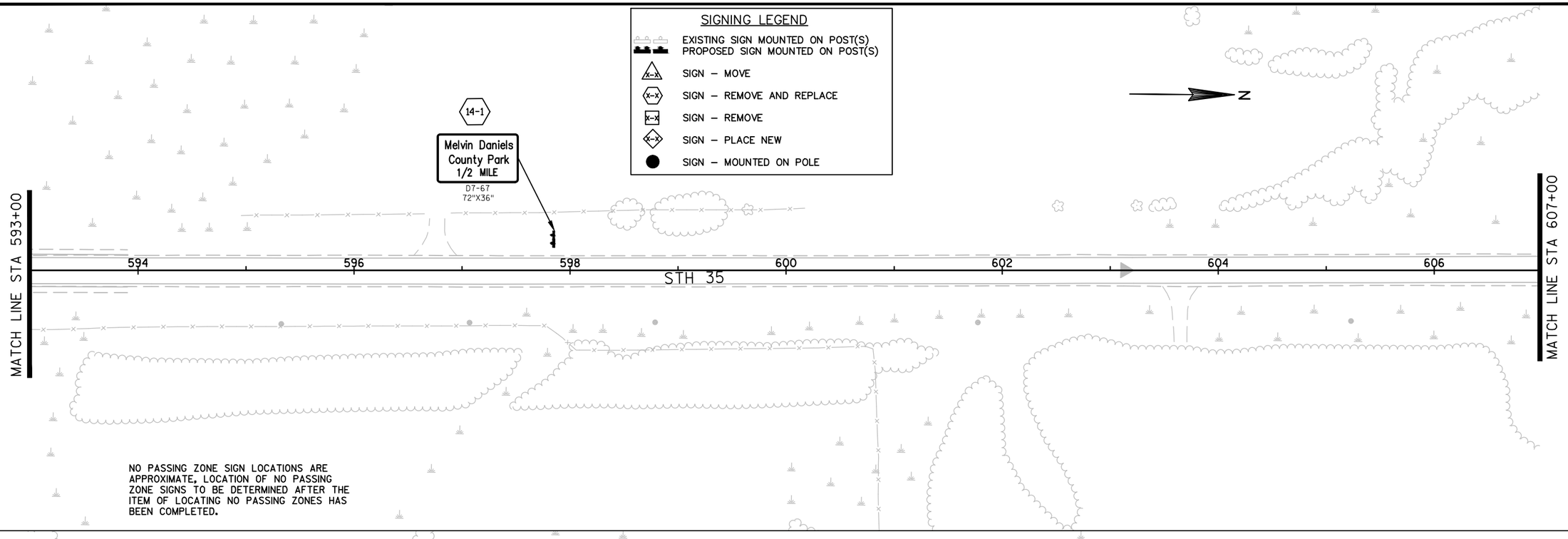


PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK	PERMANENT SIGNING	SHEET 37	E

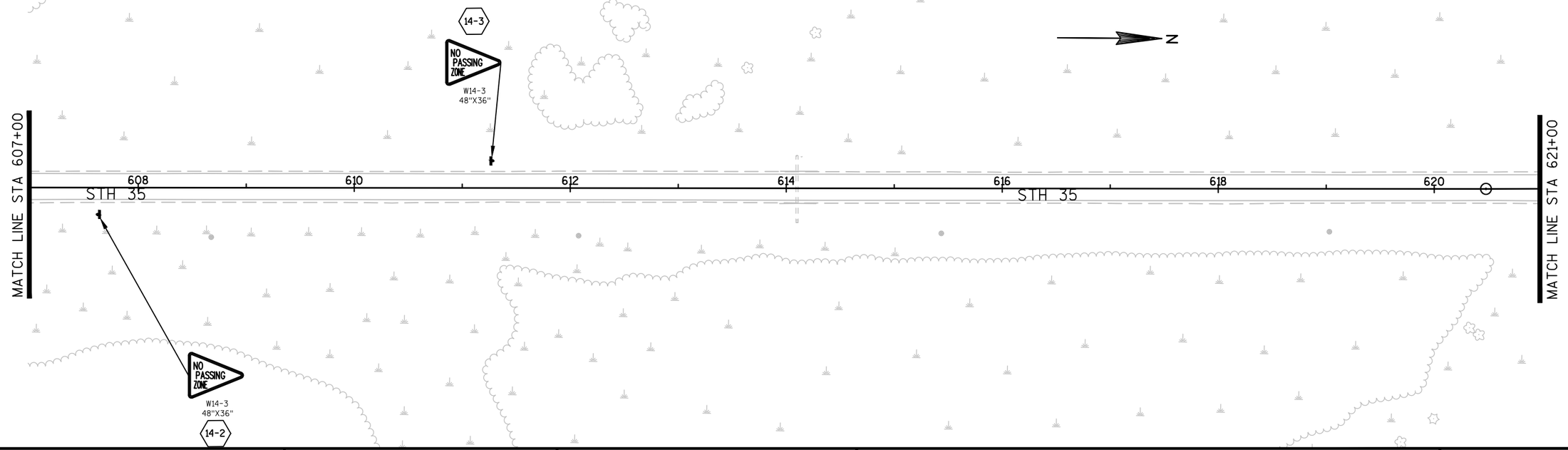
2

SIGNING LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
  PROPOSED SIGN MOUNTED ON POST(S)
- SIGN – MOVE
- SIGN – REMOVE AND REPLACE
- SIGN – REMOVE
- SIGN – PLACE NEW
- SIGN – MOUNTED ON POLE



NO PASSING ZONE SIGN LOCATIONS ARE APPROXIMATE. LOCATION OF NO PASSING ZONE SIGNS TO BE DETERMINED AFTER THE ITEM OF LOCATING NO PASSING ZONES HAS BEEN COMPLETED.



PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK	PERMANENT SIGNING	SHEET 38	E

2

SIGNING LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
  PROPOSED SIGN MOUNTED ON POST(S)
- SIGN – MOVE
- SIGN – REMOVE AND REPLACE
- SIGN – REMOVE
- SIGN – PLACE NEW
- SIGN – MOUNTED ON POLE

N

MATCH LINE STA 621+00

622 624 626 628 630 632 634

STH 35

MATCH LINE STA 635+00

W2-2
30"X30"
15-1

N

MATCH LINE STA 635+00

636 638 640 642 644 646 648

STH 35

BURNIKEL RD

STOP
R1-1
30"X30"
15-2

MATCH LINE STA 649+00

NO PASSING ZONE SIGN LOCATIONS ARE APPROXIMATE, LOCATION OF NO PASSING ZONE SIGNS TO BE DETERMINED AFTER THE ITEM OF LOCATING NO PASSING ZONES HAS BEEN COMPLETED.

PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK	PERMANENT SIGNING	SHEET 39	E

FILE NAME : \\BHASERVER14\PROJECTS\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 050429
PLOT DATE : 09/21/2017 10:23AM
PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : ---------- PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

SIGNING LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
  PROPOSED SIGN MOUNTED ON POST(S)
- SIGN – MOVE
- SIGN – REMOVE AND REPLACE
- SIGN – REMOVE
- SIGN – PLACE NEW
- SIGN – MOUNTED ON POLE

NO PASSING ZONE SIGN LOCATIONS ARE APPROXIMATE, LOCATION OF NO PASSING ZONE SIGNS TO BE DETERMINED AFTER THE ITEM OF LOCATING NO PASSING ZONES HAS BEEN COMPLETED.

N

MATCH LINE STA 649+00

650 652 654 656 658 660 662

STH 35

MATCH LINE STA 663+00

16-1

SPEED LIMIT 40

W3-5
36"X36"

16-2

16-7 R7-1-R 18"X24"

SPEED LIMIT 55 R2-1 24"X30"

16-8

16-11 STOP R1-1 30"X30"

SEPT

TEWALT RD

16-6

16-15 R7-1-D 18"X24"

16-19 NO PASSING ZONE W14-3 48"X36"

16-20 SPEED LIMIT 40 R2-1 24"X30"

16-22 R7-1-D 18"X24"

16-24 STOP R1-1 30"X30"

RUSTIC WAY

CANOPY

FLAG

16-25 R7-1-D 18"X24"

16-29 SPEED LIMIT 40 R2-1 24"X30"

MATCH LINE STA 663+00

664 666 668 670 672 674 676

STH 35

MATCH LINE STA 677+00

16-3 Siren POPULATION 806 I2-3 54"X24"

16-4 NO ENGINE BRAKING EXCEPT IN EMERGENCY

16-5

16-9 SPEED LIMIT 40 R2-1 24"X30"

16-10

16-12 R7-1-D 18"X24"

16-13 NO PASSING ZONE W14-3 48"X36"

16-14 R7-1-L 18"X24"

16-16 W1-4R 30"X30"

16-17 R7-1-D 18"X24"

16-18

16-21 SPEED LIMIT 40 R2-1 24"X30"

16-23 R7-1-D 18"X24"

16-26 R7-1-D 18"X24"

16-27

16-28 R7-1-D 18"X24"

16-30 W11-2 30"X30" AHEAD W16-9P 24"X8"

16-31

N

PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK	PERMANENT SIGNING	SHEET 40	E

FILE NAME : \\BHASERVER14\PROJECTS\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 050431
PLOT DATE : 09/21/2017 10:24AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : ---------- PLOT SCALE : 1 IN:100 FT

2

MATCH LINE STA 677+00

STH 35

678 680 682 684 686 688 690

MATCH LINE STA 691+00

FANDEEN RD

17-1 S3-1 36"X36"

17-2 R2-1 24"X30"

17-3 R7-1-D 18"X24"

17-4 R7-1-D 18"X24"

17-5 17-6 W11-2 30"X30" W16-7L 24"X12"

17-7 R1-1 30"X30" STOP

17-8 17-9 W11-2 30"X30" W16-7L 24"X12"

17-10 R7-1-D 18"X24"

17-11 R7-1-D 18"X24"

17-12 17-13 W11-2 30"X30" W16-9P 24"X8" AHEAD

17-14 R2-1 24"X30" SPEED LIMIT 40

17-15 R7-1-D 18"X24" NO PARKING

17-16 R7-1-D 18"X24"

17-17 R7-1-D 18"X24"

17-18 R7-1-D 18"X24"

SIGNING LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- SIGN – MOVE
- SIGN – REMOVE AND REPLACE
- SIGN – REMOVE
- SIGN – PLACE NEW
- SIGN – MOUNTED ON POLE

NO PASSING ZONE SIGN LOCATIONS ARE APPROXIMATE, LOCATION OF NO PASSING ZONE SIGNS TO BE DETERMINED AFTER THE ITEM OF LOCATING NO PASSING ZONES HAS BEEN COMPLETED.

MATCH LINE STA 691+00

STH 35

692 694 696 698 700 702 704

MATCH LINE STA 705+00

CLEAR LK ST

17-19 17-20 17-21 17-22 17-23 17-26 17-27 R7-1-D 18"X24" NO PARKING

17-24 S3-1 36"X36"

17-25 R7-1-D 18"X24" NO PARKING

17-28 17-29 R2-1 24"X30" SPEED LIMIT 40

17-30 17-31 R2-1 24"X30" SPEED LIMIT 40

17-32 I3-1 36"X24" CLEAR LAKE

17-33 17-34 W11-2 30"X30" W16-9P 24"X8" AHEAD

17-35 R7-1-D 18"X24" NO PARKING

17-36 R7-1-D 18"X24" NO PARKING

17-37 R7-1-D 18"X24" NO PARKING

17-38 W1-4R 30"X30"

17-39 17-40 W11-2 30"X30" W16-7L 24"X12"

17-41 R1-1 30"X30" STOP

17-42 W14-3 48"X36" NO PASSING ZONE

17-43 W14-3 48"X36" NO PASSING ZONE

17-44 17-45 W11-2 30"X30" W16-7L 24"X12"

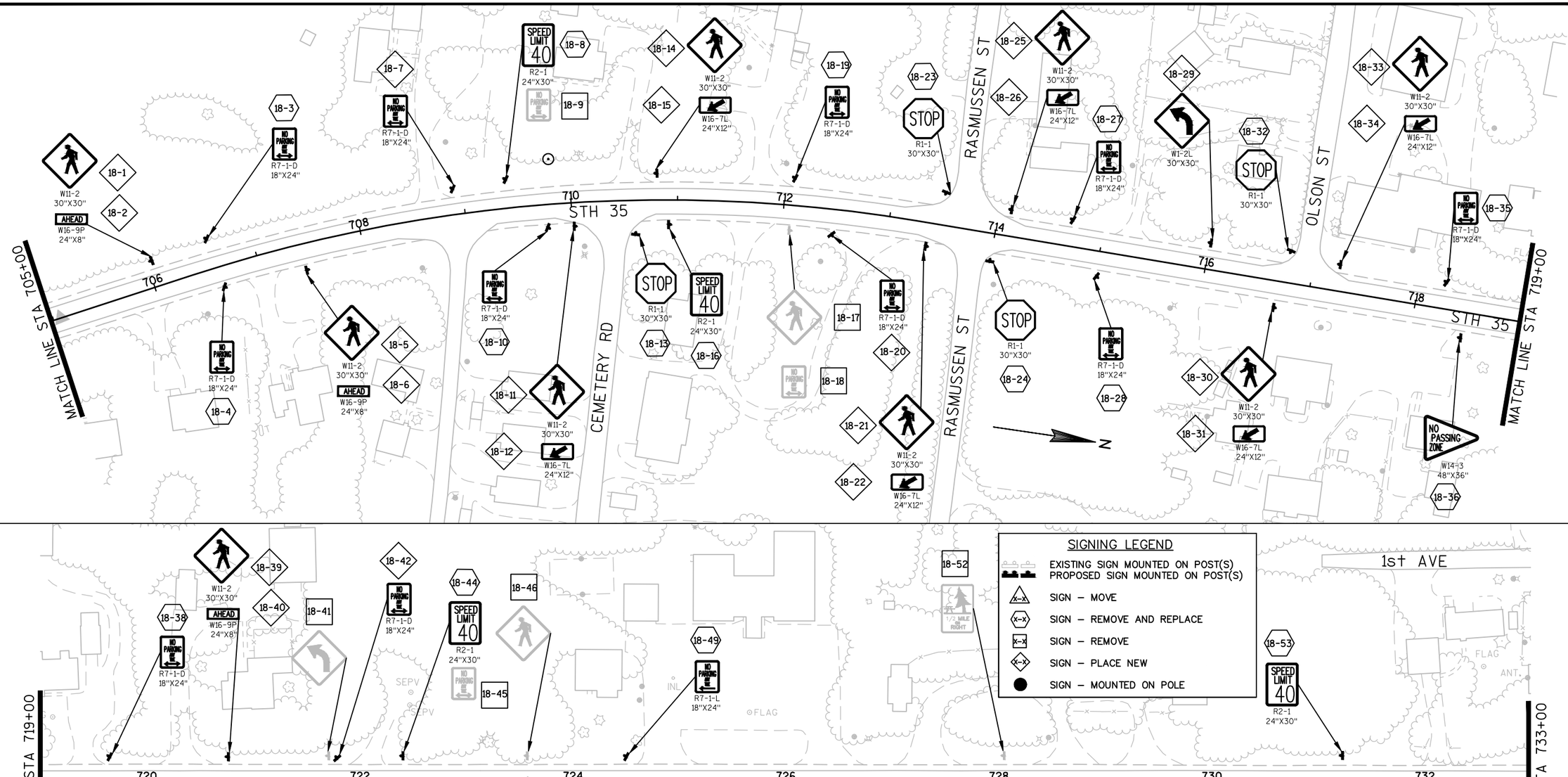
17-46 R7-1-D 18"X24" NO PARKING

17-47 R7-1-D 18"X24" NO PARKING

PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK	PERMANENT SIGNING	SHEET 41	E

FILE NAME : \\BHASERVER14\PROJECTS\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 050433
PLOT DATE : 09/21/2017 10:25AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : ---------- PLOT SCALE : 1 IN:100 FT

2



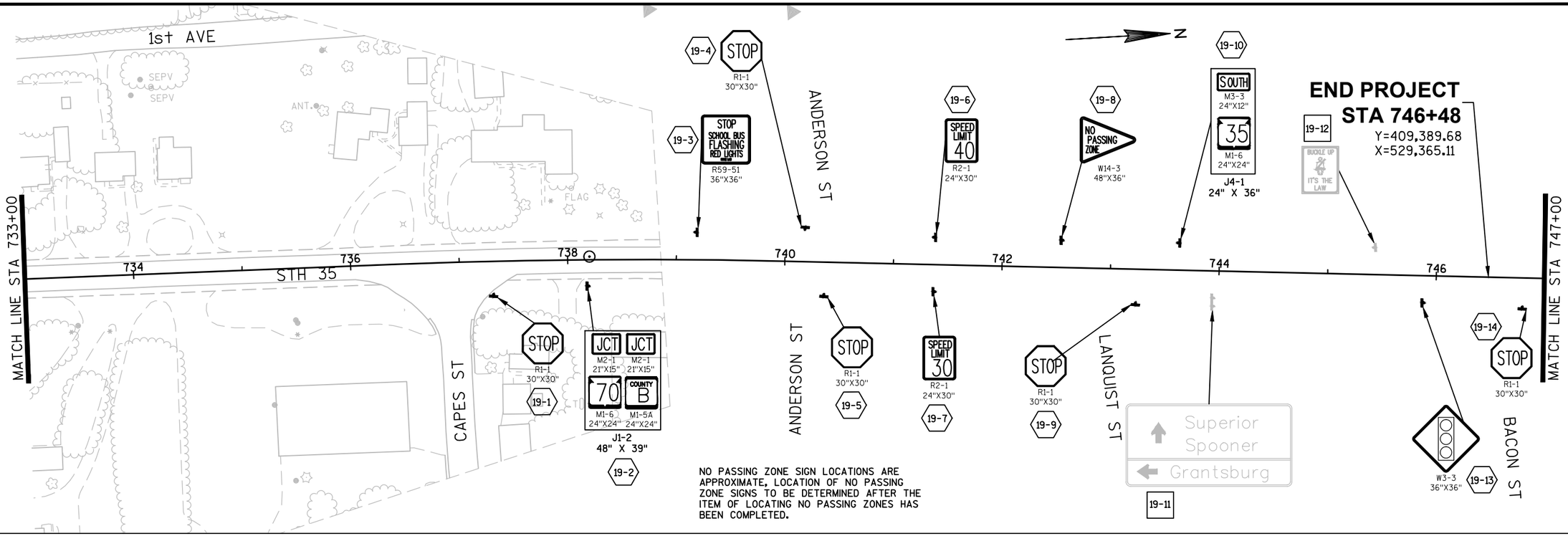
SIGNING LEGEND

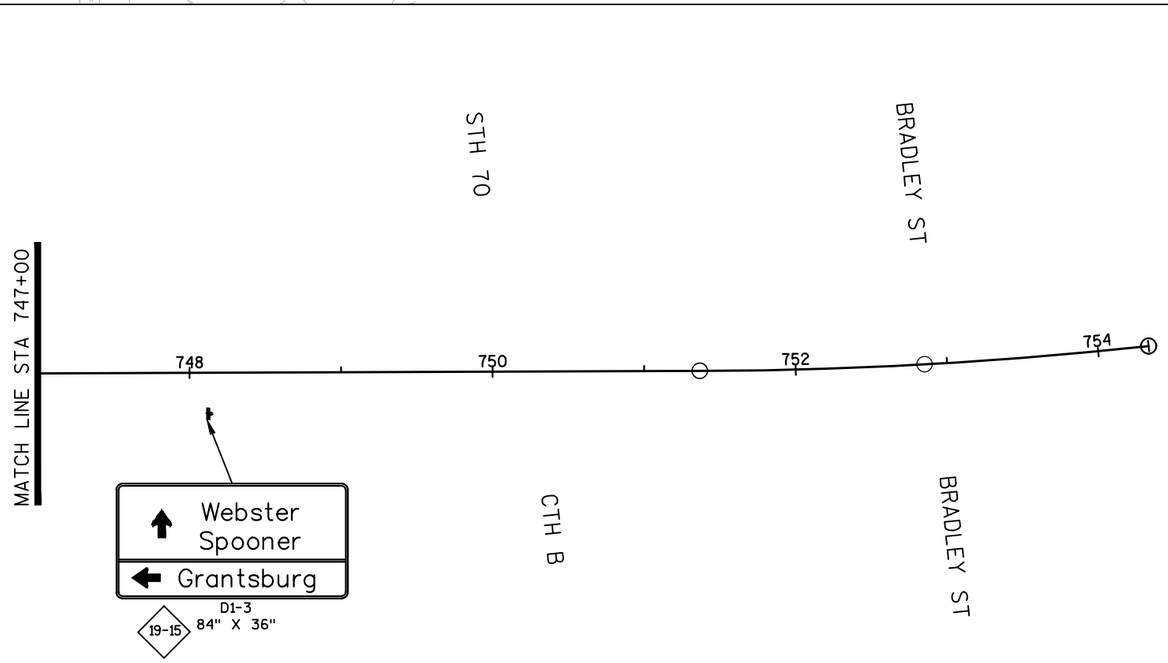
- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- SIGN – MOVE
- SIGN – REMOVE AND REPLACE
- SIGN – REMOVE
- SIGN – PLACE NEW
- SIGN – MOUNTED ON POLE

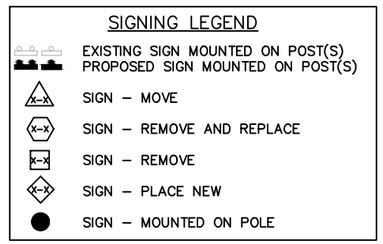
NO PASSING ZONE SIGN LOCATIONS ARE APPROXIMATE, LOCATION OF NO PASSING ZONE SIGNS TO BE DETERMINED AFTER THE ITEM OF LOCATING NO PASSING ZONES HAS BEEN COMPLETED.

PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK	PERMANENT SIGNING	SHEET 42	E

2







PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK	PERMANENT SIGNING	SHEET 43	E

2

NOTE:
FOR PAVEMENT MARKING AND OTHER TEMPORARY OPERATIONS REQUIRING FLAGGING, INSTALL TRAFFIC CONTROL ACCORDING TO STANDARD DETAIL DRAWING "MOVING PAVEMENT MARKING OPERATION - TWO-LANE TWO-WAY ROADWAY" OR "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION"

NORTH
M3-1
24"X12"

35
M1-6
24"X24"

ROAD WORK AHEAD
W20-1-A

NEXT 10 MILES
W057-51
48"X24"

ROAD WORK AHEAD
W20-1-A

GANDY DANCER TRAIL

STH 35

POLK AVE N

POLK ST

BENSON RD

140TH ST

330TH AVE

130TH ST

230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380

FREDERIC MIDDLE & HIGH SCHOOL

WOOD RIVER

ADVANCE WARNING AREA
INSTALL TRAFFIC CONTROL ACCORDING TO STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

VILLAGE OF FREDERIC

130TH ST

370 380 390 400 410 420 430 440 450 460 470 480 490 500 510 520 530 540 550

GANDY DANCER TRAIL

STH 35

345TH AVE

120TH ST

120TH ST

MAIN AVE

115TH ST

PINE AVE

115TH ST

OAK AVE

CTH E (350TH AVE)

110TH ST

POLK COUNTY

BURNETT COUNTY

LEWIS
UNINCORPORATED

PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK	TRAFFIC CONTROL	SHEET 44	E

FILE NAME : \\BHASERVER14\PROJECTS\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\025001_TC.DWG PLOT DATE : 9/21/2017 10:32 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : ---------- PLOT SCALE : 1 IN:1200 FT

2

2

POLK COUNTY
BURNETT COUNTY

ELBOW LAKE

NOTE:
FOR PAVEMENT MARKING AND OTHER TEMPORARY OPERATIONS REQUIRING FLAGGING, INSTALL TRAFFIC CONTROL ACCORDING TO STANDARD DETAIL DRAWING "MOVING PAVEMENT MARKING OPERATION - TWO-LANE TWO-WAY ROADWAY" OR "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION"

ROAD WORK AHEAD
W20-1-A

GANDY DANCER TRAIL

CLEAR LAKE

530 540 550 560 570 580 590 600 610 620 630 640 650 660 670 680 690 700 710

GANDY DANCER TRAIL

WAYSIDE

ELBOW LAKE RD

STH 35

GODFREY LAKE RD

BURNIKEL RD

TEWALT RD

RUSTIC WAY

FANDEEN RD

CLEAR LAKE ST

CEMETERY RD

RASMUSEN ST

SOUTH
M3-3
24"X12"

35
M1-6
24"X24"

ROAD WORK AHEAD
W20-1-A

NEXT 10 MILES
W057-51
48"X24"

ADVANCE WARNING AREA
INSTALL TRAFFIC CONTROL ACCORDING TO STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

FISH LAKE

GANDY DANCER TRAIL

CLEAR LAKE

TEWALT RD
RUSTIC WAY
670 680 690 700 710 720 730 740 750

FANDEEN RD
CLEAR LAKE ST
CEMETERY RD
RASMUSEN ST
OLSON ST
TOWER RD
CAPES ST
ANDERSON ST
LANQUIST ST
BACON ST
STH 35
STH 70
CTH B
MAIN ST

VILLAGE OF SIREN

STH 35

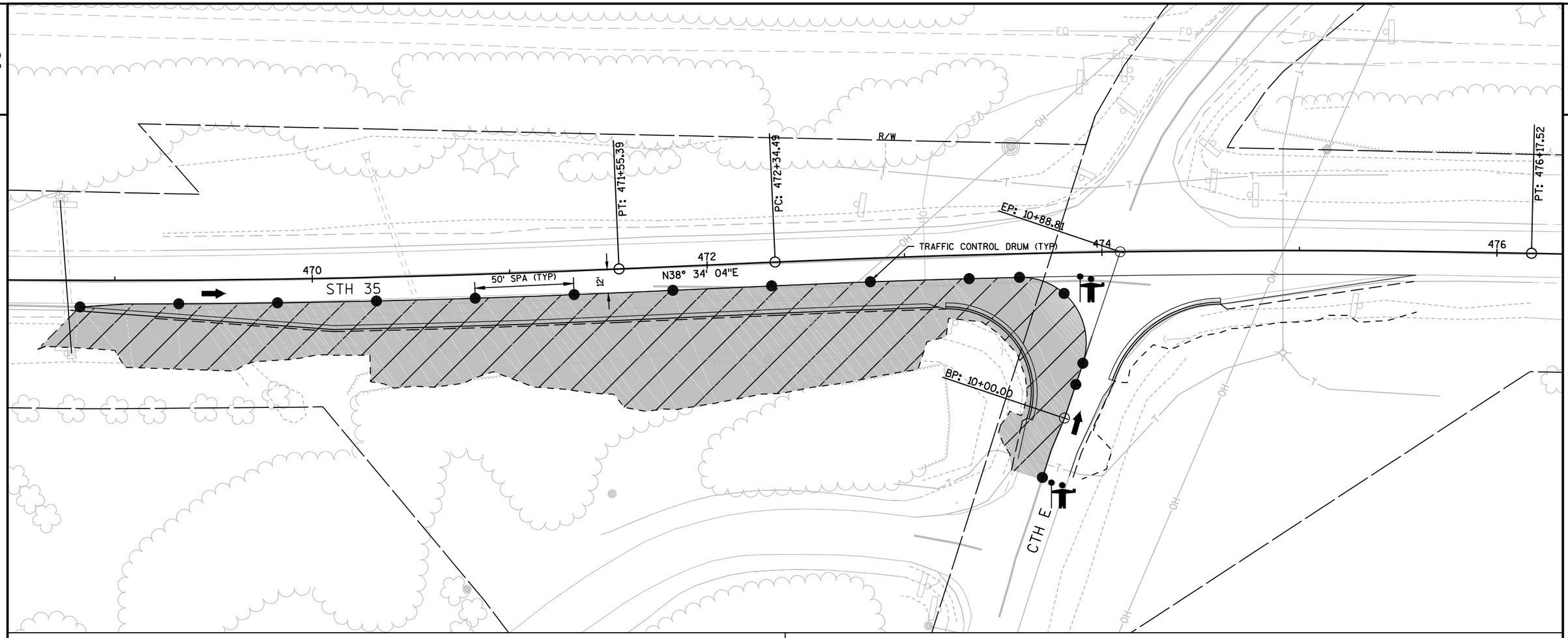
GANDY DANCER TRAIL

CROOKED LAKE PARK

CROOKED LAKE

PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK	TRAFFIC CONTROL	SHEET 45	E

2



LEGEND

TRAFFIC CONTROL DRUM

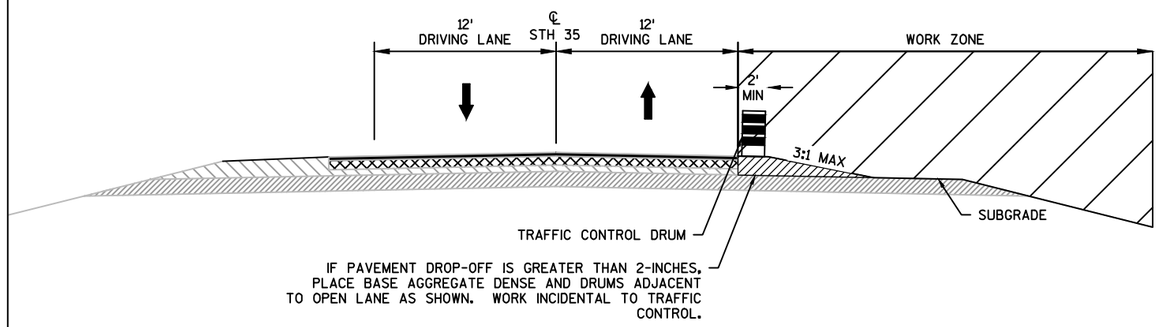
WORK AREA

DIRECTION OF TRAFFIC

APPROXIMATE LOCATION OF FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

NOTE:
PERFORM WORK USING "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY," AND "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION" UNLESS OTHERWISE NOTED. MAINTAIN MINIMUM 12' LANE WIDTH.

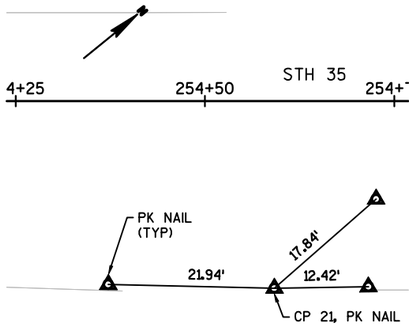
WORK ON SOUTH HALF OF CTH E SHOWN, WORK ON NORTH HALF OF CTH E SIMILAR.



TRAFFIC CONTROL TYPICAL SECTION – STH 35

PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	TRAFFIC CONTROL	SHEET 46	E

FILE NAME : \\BHASERVER14\PROJECTS\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\025002_TC.DWG
LAYOUT NAME - 050417
PLOT DATE : 9/21/2017 10:50 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : PLOT SCALE : **********
WISDOT/CADDS SHEET 44

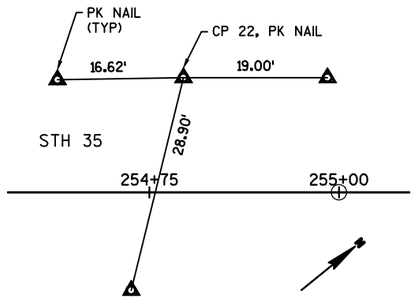


CP 21, PK NAIL
STA 254+59.17, 24.69' RT

Y = 368535.769
X = 509679.647

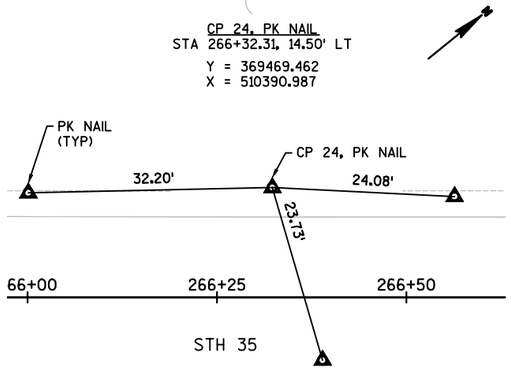
CP 22, PK NAIL
STA 254+79.49, 15.13' LT

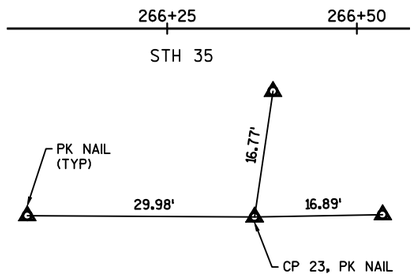
Y = 368576.685
X = 509661.645



CP 24, PK NAIL
STA 266+32.31, 14.50' LT

Y = 369469.462
X = 510390.987



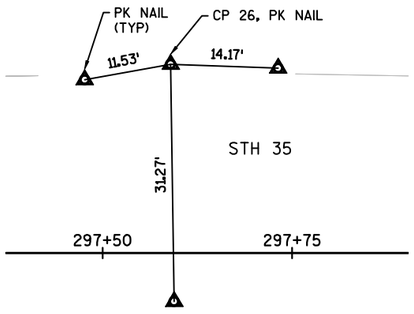


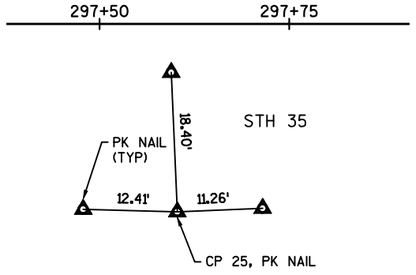
CP 23, PK NAIL
STA 266+36.52, 24.88' RT

Y = 369447.826
X = 510424.158

CP 26, PK NAIL
STA 297+58.98, 24.88' LT

Y = 371898.488
X = 512359.755



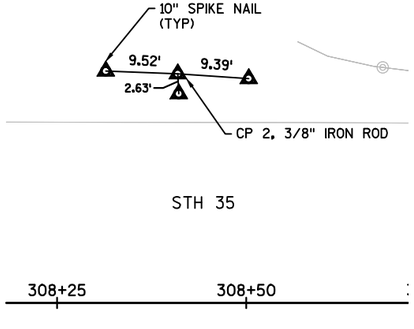


CP 25, PK NAIL
STA 297+60.25, 24.77' RT

Y = 371868.077
X = 512399.019

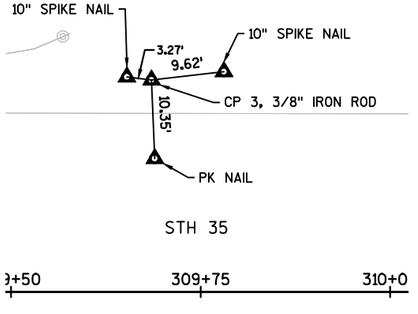
CP 2, 3/8" IRON ROD
STA 308+40.96, 30.22' LT

Y = 372694.493
X = 513096.029

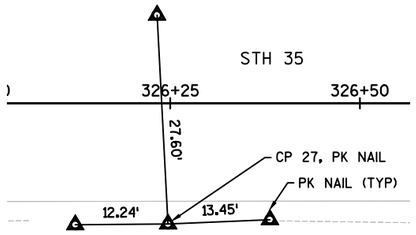


CP 3, 3/8" IRON ROD
STA 309+68.52, 27.95' LT

Y = 372775.878
X = 513194.291

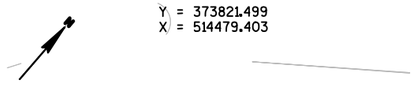


PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK	CONTROL POINT DATA	SHEET 47	E



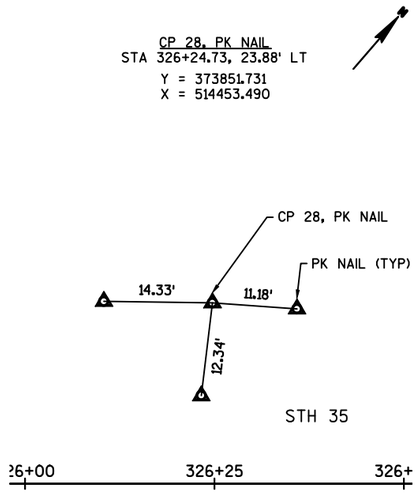
CP 27, PK NAIL
STA 326+24.70, 15.94' RT

Y = 373821.499
X = 514479.403



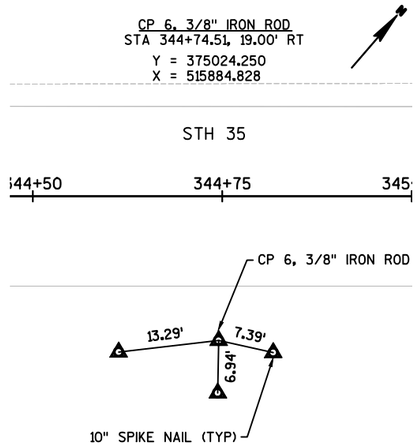
CP 28, PK NAIL
STA 326+24.73, 23.88' LT

Y = 373851.731
X = 514453.490



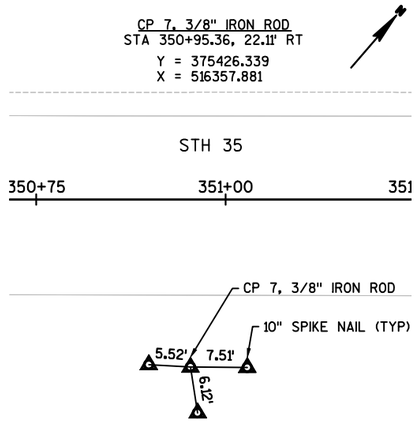
CP 6, 3/8" IRON ROD
STA 344+74.51, 19.00' RT

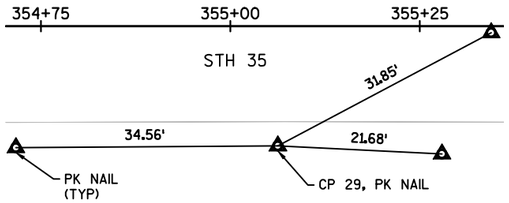
Y = 375024.250
X = 515884.828



CP 7, 3/8" IRON ROD
STA 350+95.36, 22.11' RT

Y = 375426.339
X = 516357.881

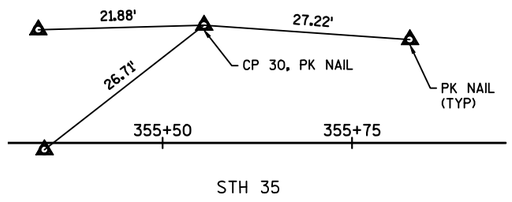




CP 29, PK NAIL
STA 355+06.27, 15.80' RT

Y = 375698.821
X = 516665.525





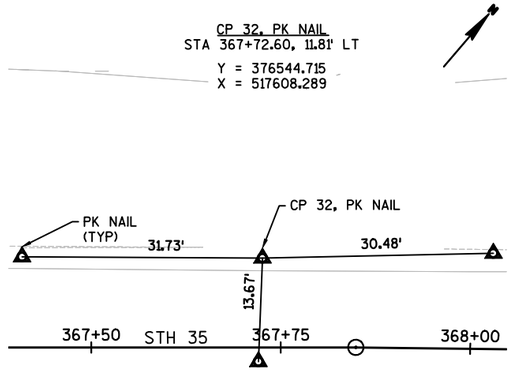
CP 30, PK NAIL
STA 355+55.48, 15.55' LT

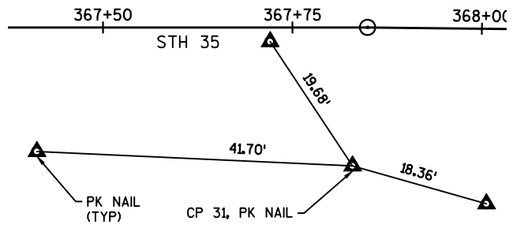
Y = 375754.657
X = 516682.435



CP 32, PK NAIL
STA 367+72.60, 11.81' LT

Y = 376544.715
X = 517608.289



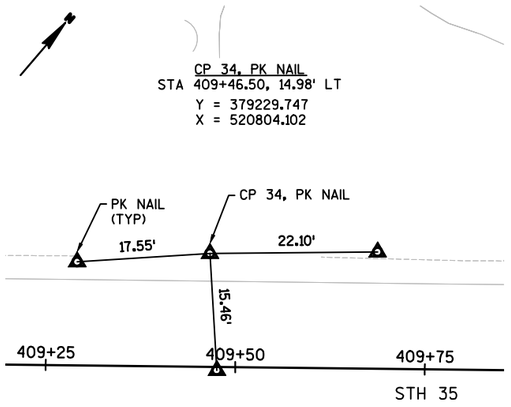


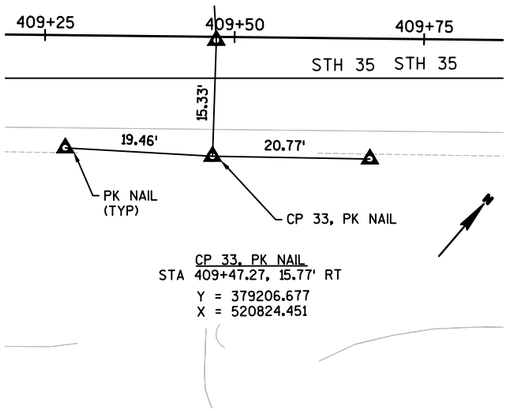
CP 31, PK NAIL
STA 367+82.93, 18.25' RT

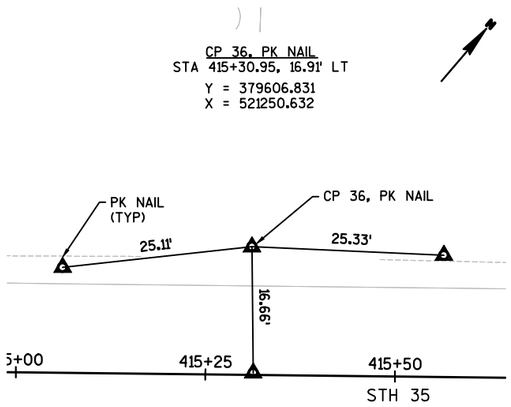
Y = 376528.645
X = 517635.714

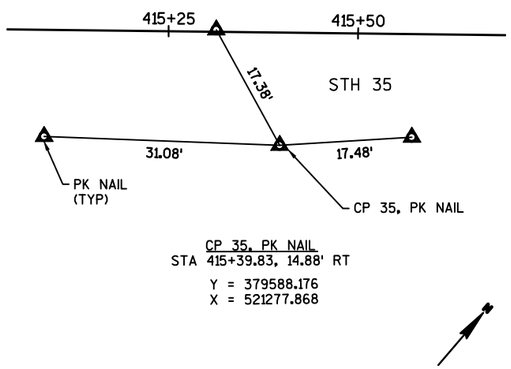


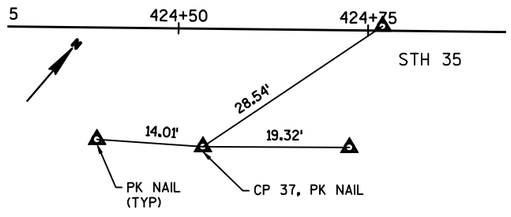
PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK	CONTROL POINT DATA	SHEET 48	E

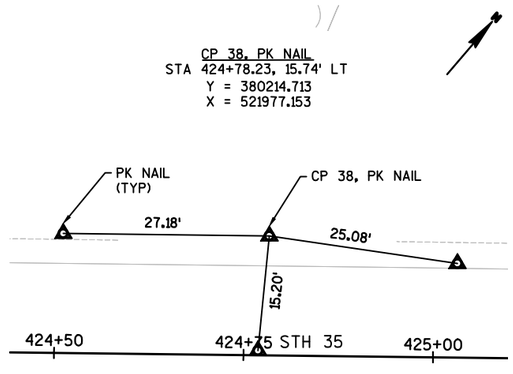

CP 34, PK NAIL
STA 409+46.50, 14.98' LT
Y = 379229.747
X = 520804.102
PK NAIL (TYP)
CP 34, PK NAIL
17.55'
22.10'
15.46'
409+25
409+50
409+75
STH 35

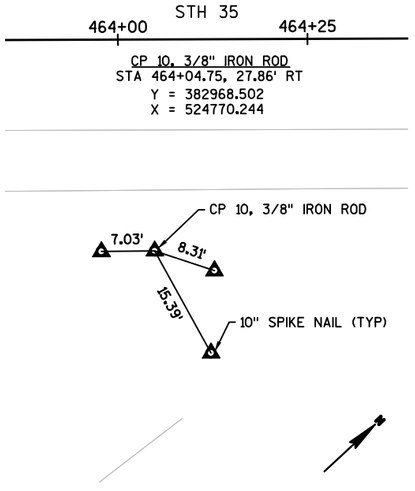

409+25
409+50
409+75
STH 35 STH 35
15.33'
19.46'
20.77'
PK NAIL (TYP)
CP 33, PK NAIL
CP 33, PK NAIL
STA 409+47.27, 15.77' RT
Y = 379206.677
X = 520824.451

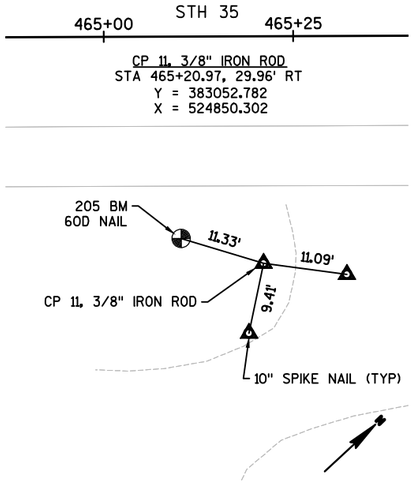

CP 36, PK NAIL
STA 415+30.95, 16.91' LT
Y = 379606.831
X = 521250.632
PK NAIL (TYP)
CP 36, PK NAIL
25.11'
25.33'
19.99'
5+00
415+25
415+50
STH 35


415+25
415+50
17.38'
STH 35
31.08'
17.48'
PK NAIL (TYP)
CP 35, PK NAIL
CP 35, PK NAIL
STA 415+39.83, 14.88' RT
Y = 379588.176
X = 521277.868


5
424+50
424+75
STH 35
28.54'
14.01'
19.32'
PK NAIL (TYP)
CP 37, PK NAIL
CP 37, PK NAIL
STA 424+53.39, 15.58' RT
Y = 380174.753
X = 521978.244

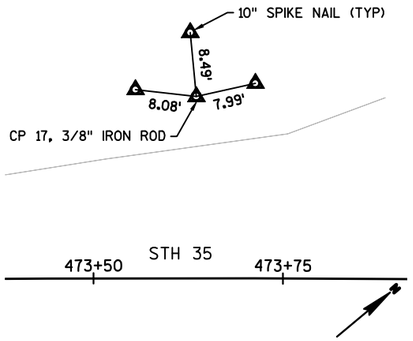

CP 38, PK NAIL
STA 424+78.23, 15.74' LT
Y = 380214.713
X = 521977.153
PK NAIL (TYP)
CP 38, PK NAIL
27.18'
25.08'
15.20'
424+50
424+75 STH 35
425+00


STH 35
464+00
464+25
CP 10, 3/8" IRON ROD
STA 464+04.75, 27.86' RT
Y = 382968.502
X = 524770.244
CP 10, 3/8" IRON ROD
7.03'
8.31'
15.39'
10" SPIKE NAIL (TYP)

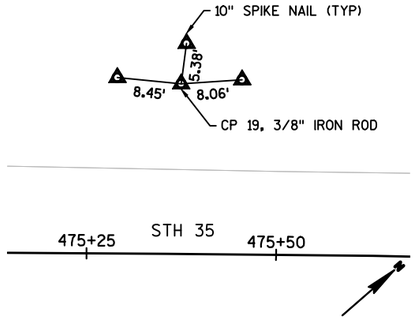

STH 35
465+00
465+25
CP 11, 3/8" IRON ROD
STA 465+20.97, 29.96' RT
Y = 383052.782
X = 524850.302
205 BM
60D NAIL
11.33'
11.09'
CP 11, 3/8" IRON ROD
9.41'
10" SPIKE NAIL (TYP)

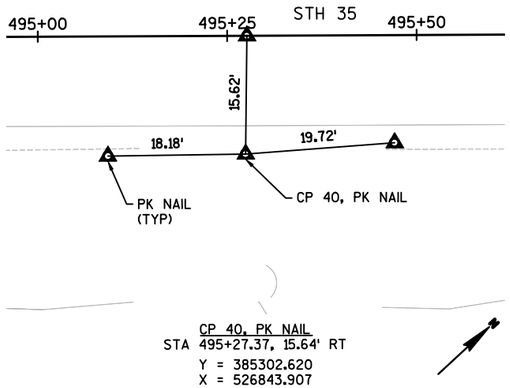
2

CP 17, 3/8" IRON ROD
STA 473+63.57, 23.98' LT
Y = 383726.877
X = 525359.160



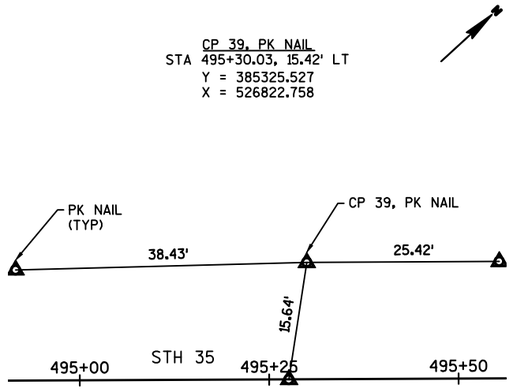
CP 19, 3/8" IRON ROD
STA 475+37.29, 22.45' LT
Y = 383858.060
X = 525474.124



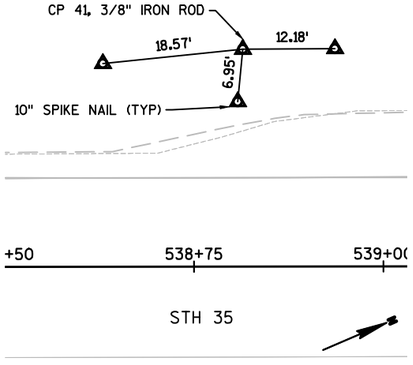


CP 40, PK NAIL
STA 495+27.37, 15.64' RT
Y = 385302.620
X = 526843.907

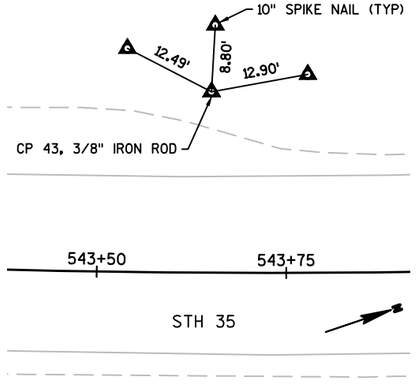
CP 39, PK NAIL
STA 495+30.03, 15.42' LT
Y = 385325.527
X = 526822.758



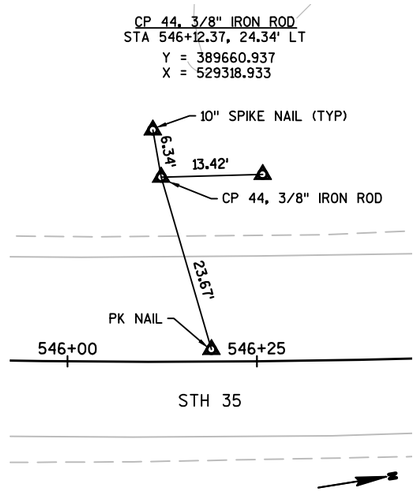
CP 41, 3/8" IRON ROD
STA 538+81.49, 28.67' LT
Y = 388982.735
X = 529069.979



CP 43, 3/8" IRON ROD
STA 543+65.02, 23.88' LT
Y = 389425.212
X = 529260.393

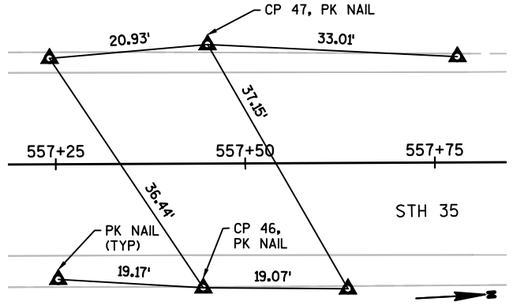


CP 44, 3/8" IRON ROD
STA 546+12.37, 24.34' LT
Y = 389660.937
X = 529318.933



CP 46, PK NAIL
STA 557+44.40, 16.39' RT
Y = 390785.959
X = 529427.134

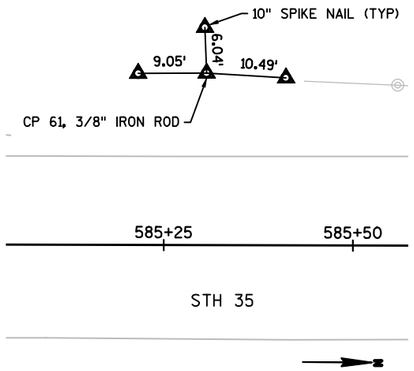
CP 47, PK NAIL
STA 557+45.08, 15.68' LT
Y = 390788.339
X = 529395.146



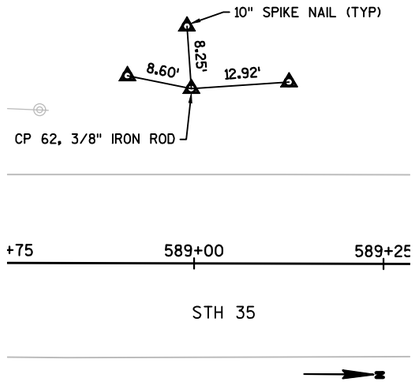
PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK	CONTROL POINT DATA	SHEET 50	E

2

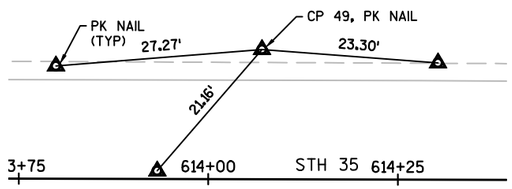
CP 61, 3/8" IRON ROD
STA 585+30.28, 22.69' LT
Y = 393565.072
X = 529300.650

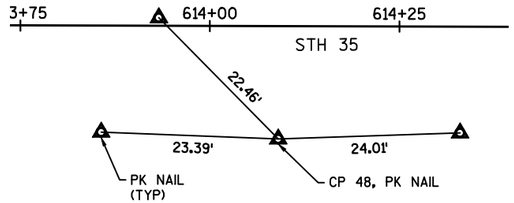


CP 62, 3/8" IRON ROD
STA 588+99.26, 23.05' LT
Y = 393934.035
X = 529297.999



CP 49, PK NAIL
STA 614+06.70, 17.14' LT
Y = 396441.462
X = 529288.348





CP 48, PK NAIL
STA 614+08.72, 14.90' RT
Y = 396443.687
X = 529320.367

PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK	CONTROL POINT DATA	SHEET 51	E

8010-01-77

Line	Item	Item Description	Unit	Total	Qty
0002	201.0105	Clearing	STA	5.000	5.000
0004	201.0205	Grubbing	STA	5.000	5.000
0006	204.0110	Removing Asphaltic Surface	SY	1,030.000	1,030.000
0008	204.0115	Removing Asphaltic Surface Butt Joints	SY	2,032.000	2,032.000
0010	204.0120	Removing Asphaltic Surface Milling	SY	201,004.000	201,004.000
0012	204.0150	Removing Curb & Gutter	LF	141.000	141.000
0014	204.0165	Removing Guardrail	LF	2,590.000	2,590.000
0016	205.9010.S	Grading and Shaping Intersection (location) 01. CTH E	LS	1.000	1.000
0018	211.0100	Prepare Foundation for Asphaltic Paving (project) 01. 8010-01-77	LS	1.000	1.000
0020	213.0100	Finishing Roadway (project) 01. 8010-01-77	EACH	1.000	1.000
0022	305.0110	Base Aggregate Dense 3/4-Inch	TON	1,616.000	1,616.000
0024	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	1,200.000	1,200.000
0026	305.0500	Shaping Shoulders	STA	1,014.000	1,014.000
0028	440.4410	Incentive IRI Ride	DOL	43,300.000	43,300.000
0030	455.0605	Tack Coat	GAL	13,604.000	13,604.000
0032	460.2000	Incentive Density HMA Pavement	DOL	14,030.000	14,030.000
0034	460.4110.S	Reheating HMA Pavement Longitudinal Joints	LF	102,900.000	102,900.000
0036	460.6445	HMA Pavement 5 MT 58-34 H	TON	14,278.000	14,278.000
0038	460.7644	HMA Pavement 4 HT 58-34 V	TON	19,765.000	19,765.000
0040	465.0110	Asphaltic Surface Patching	TON	1,500.000	1,500.000
0042	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	510.000	510.000
0044	465.0475	Asphalt Center Line Rumble Strips 2-Lane Rural	LF	33,472.000	33,472.000
0046	520.8700	Cleaning Culvert Pipes	EACH	11.000	11.000
0048	520.9700.S	Culvert Pipe Liners (size) 01. 16 1/2-Inch	LF	378.000	378.000
0050	520.9700.S	Culvert Pipe Liners (size) 02. 21-Inch	LF	130.000	130.000
0052	520.9700.S	Culvert Pipe Liners (size) 03. 25-Inch	LF	152.000	152.000
0054	520.9750.S	Cleaning Culvert Pipes for Liner Verification	EACH	7.000	7.000
0056	521.0124	Culvert Pipe Corrugated Steel 24-Inch	LF	10.000	10.000
0058	521.1024	Apron Endwalls for Culvert Pipe Steel 24-Inch	EACH	15.000	15.000
0060	521.1036	Apron Endwalls for Culvert Pipe Steel 36-Inch	EACH	2.000	2.000
0062	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	155.000	155.000
0064	614.0010	Barrier System Grading Shaping Finishing	EACH	7.000	7.000
0066	614.2300	MGS Guardrail 3	LF	3,350.000	3,350.000
0068	614.2330	MGS Guardrail 3 K	LF	800.000	800.000
0070	614.2610	MGS Guardrail Terminal EAT	EACH	14.000	14.000
0072	618.0100	Maintenance And Repair of Haul Roads (project) 01. 8010-01-77	EACH	1.000	1.000
0074	619.1000	Mobilization	EACH	1.000	1.000
0076	624.0100	Water	MGAL	56.000	56.000

8010-01-77

Line	Item	Item Description	Unit	Total	Qty
0078	625.0100	Topsoil	SY	1,985.000	1,985.000
0080	627.0200	Mulching	SY	225.000	225.000
0082	628.1504	Silt Fence	LF	5,835.000	5,835.000
0084	628.1520	Silt Fence Maintenance	LF	5,835.000	5,835.000
0086	628.1905	Mobilizations Erosion Control	EACH	1.000	1.000
0088	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0090	628.2004	Erosion Mat Class I Type B	SY	4,643.000	4,643.000
0092	628.2008	Erosion Mat Urban Class I Type B	SY	313.000	313.000
0094	628.7020	Inlet Protection Type D	EACH	2.000	2.000
0096	628.7504	Temporary Ditch Checks	LF	415.000	415.000
0098	628.7555	Culvert Pipe Checks	EACH	78.000	78.000
0100	628.7570	Rock Bags	EACH	17.000	17.000
0102	629.0210	Fertilizer Type B	CWT	3.000	3.000
0104	630.0120	Seeding Mixture No. 20	LB	62.000	62.000
0106	633.0200	Delineators Flexible	EACH	17.000	17.000
0108	633.5200	Markers Culvert End	EACH	15.000	15.000
0110	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	178.000	178.000
0112	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	36.000	36.000
0114	637.2210	Signs Type II Reflective H	SF	797.510	797.510
0116	637.2230	Signs Type II Reflective F	SF	447.250	447.250
0118	638.2602	Removing Signs Type II	EACH	209.000	209.000
0120	638.3000	Removing Small Sign Supports	EACH	190.000	190.000
0122	642.5001	Field Office Type B	EACH	1.000	1.000
0124	643.0100	Traffic Control (project) 01. 8010-01-77	EACH	1.000	1.000
0126	643.0300	Traffic Control Drums	DAY	10,500.000	10,500.000
0128	643.0900	Traffic Control Signs	DAY	6,720.000	6,720.000
0130	646.0106	Pavement Marking Epoxy 4-Inch	LF	174,668.000	174,668.000
0132	646.0126	Pavement Marking Epoxy 8-Inch	LF	750.000	750.000
0134	646.0406	Pavement Marking Same Day Epoxy 4-Inch	LF	71,402.000	71,402.000
0136	647.0566	Pavement Marking Stop Line Epoxy 18-Inch	LF	20.000	20.000
0138	648.0100	Locating No-Passing Zones	MI	9.750	9.750
0140	649.0402	Temporary Pavement Marking Paint 4-Inch	LF	25,725.000	25,725.000
0142	650.4500	Construction Staking Subgrade	LF	460.000	460.000
0144	650.5000	Construction Staking Base	LF	460.000	460.000
0146	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	155.000	155.000
0148	650.6000	Construction Staking Pipe Culverts	EACH	1.000	1.000
0150	650.8000	Construction Staking Resurfacing Reference	LF	51,650.000	51,650.000
0152	650.9910	Construction Staking Supplemental Control (project) 01. 8010-01-77	LS	1.000	1.000
0154	650.9920	Construction Staking Slope Stakes	LF	460.000	460.000

8010-01-77

Line	Item	Item Description	Unit	Total	Qty
0156	690.0150	Sawing Asphalt	LF	2,572.000	2,572.000
0158	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,400.000	2,400.000
0160	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	990.000	990.000
0162	SPV.0090	Special 01. Concrete Curb & Gutter Cure and Seal Treatment	LF	155.000	155.000
0164	SPV.0105	Special 01. Material Transfer Vehicle	LS	1.000	1.000
0166	SPV.0105	Special 02. Milling And Removing Temporary Joint	LS	1.000	1.000

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CLEARING & GRUBBING

STATION	TO	STATION	LOCATION	201.0105 CLEARING STA	201.0205 GRUBBING STA
435+00	-	436+00	RT	1	1
471+00	-	473+00	RT	2	2
545+00	-	547+00	LT	2	2
			TOTAL	**5**	**5**

204.0110 REMOVING ASPHALTIC SURFACE

STATION	TO	STATION	LOCATION	SY	COMMENT
468+77	-	475+58	RT	1,030	CTH E
			TOTAL	**1,030**	

204.0150 REMOVING CURB & GUTTER

STATION	LOCATION	TO	STATION	LOCATION	LF	COMMENT
473+17	RT 26'	-	473+64	RT 78'	80	CTH E
474+05	RT 65'	-	474+50	RT 27'	61	CTH E
				TOTAL	**141**	

204.0165 REMOVING GUARDRAIL

STATION	TO	STATION	LOCATION	LF
308+49	-	309+50	RT	105
308+57	-	309+58	LT	105
344+79	-	351+03	RT	625
522+18	-	526+84	RT	465
539+08	-	543+62	LT	455
584+05	-	589+03	RT	500
585+43	-	588+80	LT	335
			TOTAL	**2,590**

ALL ITEMS AND QUANTITIES ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

REMOVALS & SAWING

STATION	LOCATION	STATION	LOCATION	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	690.0150 SAWING ASPHALT LF	COMMENT
232+00	CL	-	-	30	27	TERMINI
239+21	LT 33'	239+34	LT 34'	14	13	PE
255+70	RT 87'	255+90	RT 101'	26	24	BENSON RD
256+73	LT 84'	256+93	LT 74'	24	22	150TH ST
274+82	LT 46'	275+11	LT 41'	32	29	CE
282+22	LT 50'	282+54	LT 50'	34	31	CE
288+31	RT 63'	288+58	RT 63'	30	27	CE
298+46	RT 91'	298+66	RT 101'	24	22	140TH ST
299+50	LT 97'	299+71	LT 90'	25	22	140TH ST
313+47	LT 44'	313+70	LT 48'	26	23	330TH AVE
316+60	RT 59'	316+84	RT 58'	26	24	330TH AVE
320+83	LT 51'	320+98	LT 52'	17	16	PE
331+43	LT 56'	331+58	LT 55'	16	15	PE
342+68	RT 23'	343+07	RT 24'	43	39	PE
368+15	RT 84'	368+33	RT 98'	25	22	130TH AVE
369+62	LT 84'	369+79	LT 74'	22	20	130TH AVE
431+73	LT 78'	431+92	LT 90'	25	23	345TH AVE
436+46	RT 76'	436+58	RT 87'	18	16	120TH ST
444+95	RT 43'	445+08	RT 43'	15	13	PE
455+03	RT 78'	455+20	RT 62'	26	24	PINE AVE
458+81	LT 50'	459+44	LT 53'	69	63	MAIN AVE
459+99	RT 94'	460+40	RT 56'	62	56	MAIN AVE
468+78	RT	475+58	RT	-	690	CTH E
473+47	RT 122'	473+74	RT 130'	-	28	CTH E
474+21	LT 65'	474+39	LT 55'	23	20	115TH ST
510+77	RT 88'	510+99	RT 100'	28	25	110TH ST
563+02	LT 37'	563+12	LT 37'	11	10	PE
561+29	RT 53'	561+49	RT 53'	23	20	GODFREY LAKE RD
569+98	LT 45'	570+25	LT 45'	30	27	CE
590+10	LT 56'	590+30	LT 70'	26	24	ELBOW LAKE RD
636+69	-	-	-	-	16	PE
640+26	RT 71'	640+48	RT 71'	24	22	BURNIKEL RD
667+32	LT 47'	667+59	LT 47'	30	27	TEWALT RD
678+77	LT 37'	678+87	LT 39'	12	11	PE
679+33	LT 42'	681+05	LT 39'	200	180	CE
681+12	RT 17'	681+97	RT 17'	93	83	FANDEEN RD
681+59	LT 39'	681+78	LT 39'	21	19	PE
683+10	LT 40'	683+19	LT 39'	10	9	PE
684+70	LT 35'	684+85	LT 36'	16	14	PE
686+02	LT 37'	686+17	LT 35'	18	16	PE
688+08	LT 34'	688+26	LT 35'	18	17	PE
688+69	LT 29'	688+89	LT 29'	22	19	PE
689+31	LT 30'	689+54	LT 30'	24	22	PE
689+73	RT 41'	689+82	RT 83'	12	11	PE
689+99	LT 37'	690+11	LT 37'	13	12	PE
690+64	LT 40'	690+76	LT 40'	13	12	PE
690+84	RT 45'	690+98	RT 44'	16	15	PE
696+92	RT 39'	697+12	RT 41'	23	21	PE
697+99	LT 47'	698+34	LT 36'	40	36	PE
697+99	RT 39'	698+18	RT 48'	23	21	PE
			SUBTOTALS	1,398	1,998	

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REMOVALS & SAWING (CONT'D)

				204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS	**690.0150** SAWING ASPHALT	
STATION	LOCATION	STATION	LOCATION	SY	LF	COMMENT
699+82	LT 42'	699+98	LT 44'	18	17	PE
702+34	LT 50'	702+61	LT 50'	30	27	CLEAR LAKE ST
703+53	RT 40'	703+68	RT 41'	16	15	PE
708+78	RT 49'	708+94	RT 49'	17	15	PE
710+28	RT 49'	710+48	RT 49'	22	20	CEMETERY RD
711+69	LT 44'	711+83	LT 44'	16	14	PE
713+56	LT 50'	713+78	LT 51'	25	23	RASMUSSEN ST
713+71	RT 49'	713+92	RT 49'	24	22	RASMUSSEN ST
716+83	LT 51'	717+02	LT 51'	22	19	OLSON ST
723+50	RT 44'	723+72	RT 43'	23	21	TOWER RD
724+66	LT 51'	725+00	LT 50'	38	35	CE
726+14	LT 50'	726+50	LT 50'	40	36	CE
730+57	RT 50'	730+80	RT 50'	25	23	CE
733+46	RT 50'	733+70	RT 51'	27	25	CE
733+81	RT 51	733+95	RT 51'	16	15	CE
736+78	LT 39'	736+91	LT 40'	15	13	PE
736+69	RT 52'	737+15	RT 52'	48	43	CAPES ST
739+92	RT 54'	740+35	RT 53'	48	43	ANDERSON ST
740+05	LT 50'	740+49	LT 50'	48	43	ANDERSON ST
742+77	RT 50'	743+23	RT 50'	48	43	LANQUIST ST
743+93	LT 49'	744+27	LT 49'	38	35	CE
746+47	CL	-	-	30	27	TERMINI
			SUBTOTALS	634	574	
			TOTALS	**2,032**	**2,572**	

ALL ITEMS AND QUANTITIES ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

MILLING & DRIVEWAYS

STATION	LOCATION	TO	STATION	LOCATION	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	COMMENT
232+00	CL	-	251+98	CL	6,700	-	MAINLINE
251+98	CL	-	280+00	CL	12,200	-	MAINLINE
280+00	CL	-	301+98	CL	11,800	-	MAINLINE
301+98	CL	-	310+97	CL	3,900	-	MAINLINE
310+97	CL	-	314+97	CL	1,800	-	MAINLINE
314+97	CL	-	339+97	CL	10,900	-	MAINLINE
339+97	CL	-	384+26	CL	14,800	-	MAINLINE
384+26	CL	-	389+55	CL	1,800	-	MAINLINE
389+55	CL	-	454+05	CL	21,500	-	MAINLINE
454+05	CL	-	457+56	CL	1,400	-	MAINLINE
457+56	CL	-	461+36	CL	1,700	-	MAINLINE
461+36	CL	-	466+78	CL	2,100	-	MAINLINE
466+78	CL	-	511+95	CL	15,100	-	MAINLINE
511+95	CL	-	518+75	CL	2,300	-	MAINLINE
518+75	CL	-	533+99	CL	5,100	-	MAINLINE
533+99	CL	-	542+14	CL	2,800	-	MAINLINE
542+14	CL	-	548+34	CL	2,100	-	MAINLINE
548+34	CL	-	570+22	CL	7,300	-	MAINLINE
570+22	CL	-	572+68	CL	1,100	-	MAINLINE
572+68	CL	-	577+67	CL	2,200	-	MAINLINE
577+67	CL	-	584+66	CL	2,400	-	MAINLINE
584+66	CL	-	630+49	CL	15,300	-	MAINLINE
630+49	CL	-	648+99	CL	6,200	-	MAINLINE
648+99	CL	-	666+50	CL	5,900	-	MAINLINE
666+50	CL	-	746+47	CL	30,200	-	MAINLINE
239+27	LT 15'	-	-	-	37	4	PE
256+10	RT 25'	-	-	-	470	-	BENSON RD
256+62	LT 18'	-	-	-	350	-	150TH ST
274+92	LT 17'	-	-	-	22	4	CE
282+43	LT 25'	-	-	-	120	21	CE
288+35	RT 27'	-	-	-	230	40	CE
298+77	RT 25'	-	-	-	340	-	140TH ST
299+46	LT 26'	-	-	-	420	-	140TH ST
313+61	LT 25'	-	-	-	89	-	330TH AVE
316+66	RT 18'	-	-	-	240	-	330TH AVE
320+91	LT 25'	-	-	-	93	11	PE
331+52	LT 25'	-	-	-	88	10	PE
342+87	RT 15'	-	-	-	48	6	PE
368+50	RT 16'	-	-	-	510	-	130TH AVE
369+37	LT 16'	-	-	-	380	-	130TH AVE
432+20	LT 18'	-	-	-	477	-	345TH AVE
436+91	RT 17'	-	-	-	300	-	120TH ST
444+95	RT 16'	-	-	-	71	8	PE
454+87	RT 21'	-	-	-	250	-	PINE AVE
459+26	LT 22'	-	-	-	280	-	MAIN AVE
459+91	RT 23'	-	-	-	490	-	MAIN AVE
474+13	LT 16'	-	-	-	250	-	115TH ST
511+14	RT 16'	-	-	-	450	-	110TH ST
563+06	LT 15'	-	-	-	37	4	PE
561+38	RT 17'	-	-	-	140	-	GODFREY LAKE RD
				SUBTOTALS	194,782	107	

MILLING & DRIVEWAYS (CONT'D)

STATION	LOCATION	TO	STATION	LOCATION	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	COMMENT
570+22	LT 20'	-	-	-	180	31	CE
590+42	LT 17'	-	-	-	261	-	ELBOW LAKE RD
636+82	LT 11'	-	-	-	99	11	PE
640+38	RT 22'	-	-	-	250	-	BURNIKEL RD
667+50	LT 18'	-	-	-	130	-	TEWALT RD
678+85	LT 17'	-	-	-	45	5	PE
680+20	LT 22'	-	-	-	470	81	CE
681+58	RT 18'	-	-	-	170	-	FANDEEN RD
681+71	LT 17'	-	-	-	55	6	PE
683+14	LT 17'	-	-	-	33	4	PE
684+78	LT 17'	-	-	-	44	5	PE
686+06	LT 17'	-	-	-	49	6	PE
689+43	LT 17'	-	-	-	40	5	PE
688+17	LT 17'	-	-	-	50	6	PE
689+76	RT 17'	-	-	-	42	5	PE
688+80	LT 17'	-	-	-	38	4	PE
690+04	LT 17'	-	-	-	43	5	PE
690+72	LT 17'	-	-	-	46	5	PE
690+92	RT 17'	-	-	-	74	9	PE
697+02	RT 17'	-	-	-	77	9	PE
698+04	LT 17'	-	-	-	170	20	PE
698+18	RT 17'	-	-	-	84	10	PE
699+99	LT 17'	-	-	-	89	10	PE
702+44	LT 17'	-	-	-	150	-	CLEAR LAKE ST
703+63	RT 17'	-	-	-	54	6	PE
708+88	RT 17'	-	-	-	92	11	PE
710+35	RT 17'	-	-	-	110	-	CEMETERY RD
711+81	LT 17'	-	-	-	72	8	PE
713+70	LT 17'	-	-	-	130	-	RASMUSSEN ST
713+78	RT 17'	-	-	-	930	-	RASMUSSEN ST
716+94	LT 17'	-	-	-	94	-	OLSON ST
723+63	RT 17'	-	-	-	94	-	TOWER RD
724+86	LT 17'	-	-	-	140	24	CE
726+39	LT 17'	-	-	-	140	24	CE
730+58	RT 17'	-	-	-	150	26	CE
733+80	RT 17'	-	-	-	220	38	CE
736+84	LT 17'	-	-	-	47	5	PE
736+87	RT 17'	-	-	-	280	-	CAPES ST
740+05	RT 17'	-	-	-	280	-	ANDERSON ST
740+30	LT 17'	-	-	-	280	-	ANDERSON ST
742+96	RT 20'	-	-	-	280	-	LANQUIST ST
744+14	LT 17'	-	-	-	140	24	CE
				SUBTOTALS	6,222	403	
				TOTALS	**201,004**	**510**	

ALL ITEMS AND QUANTITIES ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

3

BASE AGGREGATE DENSE

				305.0110	305.0120	624.0100	
				3/4-INCH	1 1/4-INCH	WATER	
STATION	TO	STATION	LOCATION	TON	TON	MGAL	COMMENT
232+00		454+05	LT/RT	650	-	13.0	MAINLINE SHOULDERS
454+05	-	457+56	LT	5	-	0.1	MAINLINE SHOULDERS
461+36	-	466+78	LT	8	-	0.2	MAINLINE SHOULDERS
466+78	-	746+50	LT/RT	681	-	13.6	MAINLINE SHOULDERS
468+78	-	475+59	RT	55	1,200	25.1	CTH E INTERSECTION
UNDISTRIBUTED (PE, CE, & FE)			LT/RT	205	-	4.1	
UNDISTRIBUTED			LT/RT	12	-	0.2	SIDE ROAD SHOULDERS
			TOTAL	**1,616**	**1,200**	**56**	

305.0500 SHAPING SHOULDERS

STATION	TO	STATION	LOCATION	STA
232+00	-	454+05	LT, RT	444
454+05	-	457+56	LT	4
461+36	-	466+78	LT	6
466+78	-	746+50	LT, RT	560
			TOTAL	**1,014**

460.4110.S REHEATING HMA PAVEMENT LONGITUDINAL JOINTS

LOCATION	LF
PROJECT: 8010-01-77	102,900
TOTAL	**102,900**

465.0475 ASPHALT CENTERLINE RUMBLE STRIPS 2-LANE RURAL

STATION	TO	STATION	LOCATION	LF
241+42	-	242+93	CL	151
244+93	-	245+97	CL	104
247+97	-	251+00	CL	303
253+00	-	254+36	CL	136
258+36	-	264+68	CL	632
266+68	-	273+84	CL	716
275+84	-	281+49	CL	565
283+49	-	287+34	CL	385
289+34	-	297+09	CL	775
301+09	-	314+70	CL	1,361
318+70	-	367+02	CL	4,832
371+02	-	430+19	CL	5,917
434+19	-	435+00	CL	81
439+00	-	450+93	CL	1,193
481+57	-	509+22	CL	2,765
513+22	-	559+36	CL	4,614
563+36	-	564+78	CL	142
566+78	-	569+16	CL	238
571+81	-	577+22	CL	541
579+22	-	589+48	CL	1,026
591+48	-	638+38	CL	4,690
642+38	-	665+43	CL	2,305
			TOTAL	**33,472**

ALL ITEMS AND QUANTITIES ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

HMA PAVEMENT

					455.0605	465.0110	460.6445	460.7644	
					TACK COAT	ASPHALTIC SURFACE PATCHING	HMA PAVEMENT 5 MT 58-34 H LEVELING LAYER	HMA PAVEMENT 4 HT 58-34 V UPPER LAYER	
STATION	LOCATION	TO	STATION	LOCATION	GAL	TON	TON	TON	COMMENT
-	-		266+36	- LT, RT	-	-	60	40	CULVERT TRANSITION
-	-		297+59	- LT, RT	-	-	70	50	CULVERT TRANSITION
-	-		355+28	- LT, RT	-	-	45	30	CULVERT TRANSITION
-	-		409+46	- LT, RT	-	-	45	30	CULVERT TRANSITION
-	-		523+28	- LT, RT	-	-	45	30	CULVERT TRANSITION
-	-		557+45	- LT, RT	-	-	45	30	CULVERT TRANSITION
232+00	CL	-	251+98	CL	469	-	482	674	MAINLINE
251+98	CL	-	280+00	CL	854	-	877	1,228	MAINLINE
280+00	CL	-	301+98	CL	826	-	848	1,187	MAINLINE
301+98	CL	-	310+97	CL	273	-	280	392	MAINLINE
310+97	CL	-	314+97	CL	126	-	129	181	MAINLINE
314+97	CL	-	339+97	CL	763	-	783	1,097	MAINLINE
339+97	CL	-	384+26	CL	1,036	-	1,064	1,489	MAINLINE
384+26	CL	-	389+55	CL	126	-	129	181	MAINLINE
389+55	CL	-	454+05	CL	1,505	-	1,545	2,163	MAINLINE
454+05	CL	-	457+56	CL	98	-	101	141	MAINLINE
457+56	CL	-	461+36	CL	119	-	122	171	MAINLINE
461+36	CL	-	466+78	CL	147	-	151	211	MAINLINE
466+78	CL	-	511+95	CL	1,057	-	1,085	1,519	MAINLINE
511+95	CL	-	518+75	CL	161	-	165	231	MAINLINE
518+75	CL	-	533+99	CL	357	-	367	513	MAINLINE
533+99	CL	-	542+14	CL	196	-	201	282	MAINLINE
542+14	CL	-	548+34	CL	147	-	151	211	MAINLINE
548+34	CL	-	570+22	CL	511	-	525	735	MAINLINE
570+22	CL	-	572+68	CL	77	-	79	111	MAINLINE
572+68	CL	-	577+67	CL	154	-	158	221	MAINLINE
577+67	CL	-	584+66	CL	168	-	173	242	MAINLINE
584+66	CL	-	630+49	CL	1,071	-	1,100	1,540	MAINLINE
630+49	CL	-	648+99	CL	434	-	446	624	MAINLINE
648+99	CL	-	666+50	CL	413	-	424	594	MAINLINE
666+50	CL	-	746+47	CL	2,114	-	2,171	3,039	MAINLINE
256+10	RT 25'	-	-	-	33	-	34	47	BENSON RD
256+62	LT 18'	-	-	-	25	-	25	35	150TH ST
298+77	RT 25'	-	-	-	24	-	24	34	140TH ST
299+46	LT 26'	-	-	-	29	-	30	42	140TH ST
313+61	LT 25'	-	-	-	6	-	6	9	330TH AVE
316+66	RT 18'	-	-	-	17	-	17	24	330TH AVE
368+50	RT 16'	-	-	-	36	-	37	51	130TH AVE
369+37	LT 16'	-	-	-	27	-	27	38	130TH AVE
432+20	LT 18'	-	-	-	33	-	34	48	345TH AVE
436+91	RT 17'	-	-	-	21	-	22	30	120TH ST
454+87	RT 21'	-	-	-	18	-	18	25	PINE AVE
459+26	LT 22'	-	-	-	20	-	20	28	MAIN AVE
459+91	RT 23'	-	-	-	34	-	35	49	MAIN AVE
474+13	LT 16'	-	-	-	18	-	18	25	115TH ST
511+14	RT 16'	-	-	-	32	-	32	45	110TH ST
561+38	RT 17'	-	-	-	10	-	10	14	GODFREY LAKE RD
				SUBTOTALS	13,583	0	14,256	19,735	

3

HMA PAVEMENT (CONT'D)

					455.0605 TACK COAT	465.0110 ASPHALTIC SURFACE PATCHING	460.6445 HMA PAVEMENT 5 MT 58-34 H LEVELING LAYER	460.7644 HMA PAVEMENT 4 HT 58-34 V UPPER LAYER	
STATION	LOCATION	TO	STATION	LOCATION	GAL	TON	TON	TON	COMMENT
667+50	LT 18'	-	-	-	9	-	9	13	TEWALT RD
681+58	RT 18'	-	-	-	12	-	12	17	FANDEEN RD
UNDISTRIBUTED					-	1,500	-	-	
				SUBTOTALS	21	1,500	22	30	
				TOTALS	**13,604**	**1,500**	**14,278**	**19,765**	

NOTE: ASPHALTIC SURFACE PATCHING IS USED FOR MINOR REPARES SUCH AS POP-OUTS, POT HOLES, OR RAMPING.

CULVERT PIPE MAINTENANCE

		520.7000 CLEANING CULVERT PIPES	520.9700.S.01 CULVERT PIPE LINERS 16 1/2-INCH	520.9700.S.02 CULVERT PIPE LINERS 21-INCH	520.9700.S.03 CULVERT PIPE LINERS 25-INCH	520.9750.S CLEANING CULVERT PIPES FOR LINER VERIFICATION	521.0124 CULVERT PIPE CORRUGATED STEEL 24-INCH	521.1024 APRON ENDWALLS FOR CULVERT PIPE STEEL 24-INCH	521.1036 APRON ENDWALLS FOR CULVERT PIPE STEEL 36-INCH	633.5200 MARKERS CULVERT END	650.6000 CONSTRUCTION STAKING PIPE CULVERTS	
STATION	LOCATION	EACH	LF	LF	LF	EACH	LF	EACH	EACH	EACH	EACH	COMMENT
254+65	LT, RT	-	-	130	-	1	-	-	-	-	-	30-INCH CPCS
266+36	LT, RT	-	-	-	80	1	-	-	2	2	-	36-INCH CPCS
297+59	LT, RT	-	80	-	-	1	-	2	-	2	-	24-INCH CPCS
313+28	LT, RT	1	-	-	-	-	-	-	-	-	-	24-INCH CPCS
326+24	LT, RT	1	-	-	-	-	-	2	-	2	-	24-INCH CPCS
355+29	LT, RT	-	100	-	-	1	-	2	-	2	-	24-INCH CPCS
367+80	LT, RT	1	-	-	-	-	-	2	-	2	-	24-INCH CPCS
387+67	LT, RT	1	-	-	-	-	-	-	-	-	-	36-INCH CPCA
400+67	LT, RT	1	-	-	-	-	-	-	-	-	-	24-INCH LINED CPCS
409+47	LT, RT	-	-	-	72	1	-	-	-	-	-	36-INCH CPCS
415+39	LT, RT	1	-	-	-	-	-	-	-	-	-	36-INCH CPCS
424+69	LT, RT	-	82	-	-	1	-	2	-	-	-	24-INCH CPCS
468+75	LT, RT	1	-	-	-	-	-	-	-	-	-	24-INCH CPCS
470+49	RT	-	-	-	-	-	10	1	-	1	1	24-INCH CPCS EXTENSION
495+30	LT, RT	1	-	-	-	-	-	2	-	-	-	24-INCH CPCS
523+28	LT, RT	-	60	-	-	-	-	-	-	2	-	24-INCH CPCS
557+45	LT, RT	-	56	-	-	1	-	2	-	2	-	24-INCH CPCS
564+62	LT, RT	1	-	-	-	-	-	-	-	-	-	72-INCH LINED CPCS
591+22	LT, RT	1	-	-	-	-	-	-	-	-	-	24-INCH CPRC
648+88	LT, RT	1	-	-	-	-	-	-	-	-	-	24-INCH CPCS
	TOTAL	**11**	**378**	**130**	**152**	**7**	**10**	**15**	**2**	**15**	**1**	

ALL ITEMS AND QUANTITIES ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

3

CONCRETE CURB & GUTTER

					601.0557 6-INCH SLOPED 36-INCH TYPE D	SPV.0090.01 CURE AND SEAL TREATMENT	
STATION	LOCATION	TO	STATION	LOCATION	LF	LF	COMMENT
473+20	RT 26'	-	473+61	RT 84'	83	83	CTH E
474+04	RT 65'	-	474+60	RT 26'	72	72	CTH E
				TOTAL	**155**	**155**	

BARRIER SYSTEM GRADING SHAPING FINISHING

										614.0010
				EXCAVATION COMMON	FILL	BORROW	TOPSOIL	FERTILIZER TYPE B	SEEDING	
STATION	TO	STATION	LOCATION	CY*	CY*	CY*	SY*	CWT*	LB*	EACH
305+88	-	342+25	RT	27	95	68	382	0.2	6.9	1
305+88	-	342+25	LT	146	307	161	906	0.6	16	1
342+23	-	353+43	RT	40	97	57	411	0.3	7	1
518+62	-	530+00	RT	15	98	83	313	0.2	5.6	1
536+50	-	546+07	LT	5	216	211	351	0.2	6	1
581+62	-	591+07	RT	109	93	-	323	0.2	5.8	1
581+62	-	591+07	LT	15	60	45	360	0.2	6	1
									TOTAL	**7**

* NOTE: ITEMS & QUANTITIES ARE LISTED FOR BID INFORMATION ONLY.

MGS GUARDRAIL AND TERMINALS

			614.2300 MGS GUARDRAIL 3	614.2330 MGS GUARDRAIL 3 K	614.2610 MGS GUARDRAIL TERMINAL EAT
STATION	STATION	LOCATION	LF	LF	EACH
306+84	307+37	RT	-	-	1
307+37	310+12	RT	275	-	-
310+12	310+65	RT	-	-	1
307+87	308+40	LT	-	-	1
308+40	310+90	LT	250	-	-
310+90	311+43	LT	-	-	1
343+42	343+95	RT	-	-	1
343+96	345+96	RT	200	-	-
345+96	349+96	RT	-	400	-
349+96	351+71	RT	175	-	-
351+73	352+26	RT	-	-	1
519+81	520+34	RT	-	-	1
520+34	531+09	RT	1,075	-	-
531+12	531+65	RT	-	-	1
537+31	537+84	LT	-	-	1
537+86	539+61	LT	175	-	-
539+61	541+11	LT	-	150	-
541+11	542+61	LT	150	-	-
542+61	543+12	LT	-	50	-
543+12	541+14	LT	200	-	-
545+17	545+70	LT	-	-	1
582+79	583+32	RT	-	-	1
583+35	585+60	RT	225	-	-
585+60	587+60	RT	-	200	-
587+60	588+88	RT	125	-	-
588+88	589+41	RT	-	-	1
583+79	584+32	LT	-	-	1
584+35	589+35	LT	500	-	-
589+34	589+87	LT	-	-	1
		TOTAL	**3,350**	**800**	**14**

ALL ITEMS AND QUANTITIES ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

EROSION CONTROL & RESTORATION ITEMS

STATION	TO	STATION	LOCATION	625.0100 TOPSOIL SY	627.0200 MULCHING SY	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1905 MOBILIZATIONS EACH	628.1910 MOBILIZATIONS EMERGENCY EACH	628.2004 EROSION MAT CLASS I TYPE B SY	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	628.7020 INLET PROTECTION TYPE D EA	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH	628.7570 ROCK BAGS EACH	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	COMMENT
305+88	-	342+25	RT	--	--	445	445	--	--	382	--	--	30	16	1	--	--	MGS
305+88	-	342+25	LT	--	--	410	410	--	--	906	--	--	30	--	1	--	--	MGS
342+23	-	353+43	RT	--	--	1,145	1,145	--	--	411	--	--	15	--	1	--	--	MGS
468+50	-	475+50	RT	1,760	--	110	110	--	--	1,760	--	--	--	13	--	1.1	31.7	CTH E INTERSECTION
518+62	-	530+00	RT	--	--	1,480	1,480	--	--	--	313	--	75	3	1	--	--	MGS
536+50	-	546+07	LT	--	--	1,005	1,005	--	--	351	--	--	--	--	1	--	--	MGS
581+62	-	591+07	RT	--	--	650	650	--	--	323	--	--	45	--	1	--	--	MGS
581+62	-	591+07	LT	--	--	590	590	--	--	360	--	--	60	16	1	--	--	MGS
			CLEANING CULVERT PIPES	10	10	--	--	--	--	100	--	--	150	30	--	1.0	25.0	
			UNDISTRIBUTED	215	215	--	--	1	2	50	--	2	10	--	10	0.5	5.0	
			TOTAL	**1,985**	**225**	**5,835**	**5,835**	**1**	**2**	**4,643**	**313**	**2**	**415**	**78**	**17**	**3**	**62**	

TRAFFIC CONTROL

LOCATION	643.0100.01 (PROJECT) EACH	643.0300 DRUMS EACH	643.0300 DRUMS DAYS	643.0900 SIGNS EACH	643.0900 SIGNS DAYS
8010-01-77	1	100	10,500	64	6,720
TOTAL	**1**		**10,500**		**6,720**

ASSUMED 105 CALENDAR DAYS (40 WORKING DAYS) FOR PROJECT 8010-01-77 QUANTITES.

648.0100 LOCATING NO-PASSING ZONES

LOCATION	MI
PROJECT	**9.75**

CONSTRUCTION STAKING

STATION	TO	STATION	LOCATION	650.4500 SUBGRADE LF	650.5000 BASE LF	650.5500 CURB, GUTTER, AND CURB & GUTTER LF	650.8000 RESURFACING REFERENCE LF	650.9910.01 SUPPLEMENTAL CONTROL 8010-01-77 LS	650.9920 SLOPE STAKES LF
232+00	-	746+50	LT, RT	-	-	-	51,650	1	-
468+60	-	473+20	RT	460	460	-	-	-	460
473+20	-	473+61	RT	-	-	83	-	-	-
474+04	-	474+60	RT	-	-	72	-	-	-
			TOTAL	**460**	**460**	**155**	**51,650**	**1**	**460**

ALL ITEMS AND QUANTITIES ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

PERMANENT SIGNING SCHEDULE

STATION	OFFSET	SIGN NO.	CODE NO.	DESCRIPTION	SIZE IN X IN	634.0614 POSTS WOOD 4X6-INCH 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH 16-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH
229+74	RT	1-1	R1-1	Stop	30 x 30	1	-	5.18	-	1	1
230+53	LT	1-2	R1-1	Stop	30 x 30	1	-	5.18	-	1	1
231+49	LT	1-3	R2-1	Speed Limit 25 MPH	24 x 30	1	-	5.00	-	1	1
231+51	RT	1-4	R2-1	Speed Limit 45 MPH	24 x 30	1	-	5.00	-	1	1
232+40	LT	1-5	I-55-56	Adopt-A-Highway [Sponsor]	30 x 36	1	-	7.50	-	1	1
232+40	RT	1-6	I-55-56	Adopt-A-Highway [Sponsor]	30 x 36	-	1	7.50	-	1	1
235+76	LT	1-7	W3-5	Speed Limit 25 Ahead [Arrow]	36 x 36	1	-	-	9.00	1	1
241+35	LT	1-8	R2-1	Speed Limit 45 MPH	24 x 30	1	-	5.00	-	1	1
241+37	RT	1-9	R2-1	Speed Limit 55 MPH	24 x 30	1	-	5.00	-	1	1
242+36	RT	1-10	W14-3	No Passing Zone	48 x 36	1	-	-	6.00	1	1
243+75	RT	1-11	-	Local Sign	x	-	-	-	-	1	1
246+12	RT	1-12	J4-1	North 35	24 x 36	-	1	6.00	-	1	1
247+70	LT	1-13	D2-2	Siren 11 / Superior 81	x	-	-	-	-	1	1
247+70	LT	1-14	W14-3	No Passing Zone	48 x 36	1	-	-	6.00	1	1
247+70	LT	1-15	W3-5	Speed Limit 45 Ahead [Arrow]	36 x 36	-	-	-	9.00	1	-
249+12	RT	1-16	D2-2	Siren 11 / Superior 81	72 x 24	-	2	12.00	-	-	-
249+68	LT	1-17	I-2-3	Frederic / Population 1137	60 x 24	1	-	10.00	-	1	1
249+70	RT	1-18	-	Deer Warning	x	-	-	-	-	1	1
252+89	RT	1-19	R4-3	Slower Traffic Keep Right	24 x 30	1	-	5.00	-	-	-
254+04	RT	1-20	R4-3	Slower Traffic Keep Right	x	-	-	-	-	1	1
256+35	RT	1-21	R1-1	Stop	30 x 30	1	-	5.18	-	1	1
256+41	LT	1-22	R1-1	Stop	30 x 30	1	-	5.18	-	1	1
284+66	RT	2-1	W9-1R	Right Lane Ends	36 x 36	1	-	-	9.00	1	1
286+53	LT	3-1	R3-72	Oncoming Traffic Uses Center Lane	30 x 36	1	-	7.50	-	1	1
288+99	LT	3-2	W4-2R	Lane Reduction Transition Symbol - RIGHT	36 x 36	1	-	-	9.00	1	1
288+99	RT	3-3	W4-2R	Lane Reduction Transition Symbol - RIGHT	36 x 36	1	-	-	9.00	1	1
290+25	RT	3-4	R3-72	Oncoming Traffic Uses Center Lane	30 x 36	1	-	7.50	-	-	-
294+22	RT	3-5	W4-2R	Lane Reduction Transition Symbol - RIGHT	36 x 36	1	-	-	9.00	1	1
294+24	LT	3-6	W4-2R	Lane Reduction Transition Symbol - RIGHT	36 x 36	1	-	-	9.00	1	1
297+91	LT	3-7	W9-1R	Right Lane Ends	36 x 36	1	-	-	9.00	1	1
299+11	LT	3-8	R1-1	Stop	30 x 30	1	-	5.18	-	1	1
299+18	RT	3-9	R1-1	Stop	30 x 30	1	-	5.18	-	1	1
316+99	RT	4-1	R1-1	Stop	30 x 30	1	-	5.18	-	1	1
325+32	RT	4-2	R3-72	Oncoming Traffic Uses Center Lane	x	-	-	-	-	1	1
333+91	LT	4-3	I-55-56	Adopt-A-Highway [Sponsor]	30 x 36	-	1	7.50	-	1	1
333+95	RT	4-4	I-55-56	Adopt-A-Highway [Sponsor]	30 x 36	1	-	7.50	-	1	1
339+60	LT	4-5	R4-3	Slower Traffic Keep Right	24 x 30	1	-	5.00	-	1	1
345+30	RT	5-1	W14-3	No Passing Zone	48 x 36	1	-	-	6.00	1	1
350+66	LT	5-2	W14-3	No Passing Zone	48 x 36	1	-	-	6.00	1	1
357+53	RT	5-3	J4-1	North 35	x	-	-	-	-	2	1
369+17	LT	6-1	R1-1	Stop	30 x 30	1	-	5.18	-	1	1
369+19	RT	6-2	R1-1	Stop	30 x 30	1	-	5.18	-	1	1
382+87	LT	6-3	W14-3	No Passing Zone	48 x 36	1	-	-	6.00	1	1
386+55	RT	6-4	W14-3	No Passing Zone	48 x 36	1	-	-	6.00	1	1
400+29	RT	7-1	S3-1	School Bus Stop Ahead	36 x 36	1	-	-	9.00	1	1
				SUBTOTAL		34	5	149.62	117	43	41

ALL ITEMS AND QUANTITIES ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

PERMANENT SIGNING SCHEDULE

STATION	OFFSET	SIGN NO.	CODE NO.	DESCRIPTION	SIZE IN X IN	634.0614 POSTS WOOD 4X6-INCH 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH 16-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH
428+70	LT	8-1	-	Local Sign	x	-	-	-	-	1	1
429+67	RT	8-2	W14-3	No Passing Zone	48 x 36	1	-	-	6.00	1	1
431+71	LT	8-3	R1-1	Stop	30 x 30	1	-	5.18	-	1	1
432+45	LT	8-4	R1-1	Stop	30 x 30	1	-	5.18	-	1	1
436+22	LT	8-5	I-55-56	Adopt-A-Highway [Sponsor]	30 x 36	1	-	7.50	-	1	1
436+22	RT	8-6	I-55-56	Adopt-A-Highway [Sponsor]	30 x 36	1	-	7.50	-	1	1
437+27	RT	8-7	R1-1	Stop	30 x 30	1	-	5.18	-	1	1
442+00	RT	8-8	I-2-3U	Lewis (UNINCORPORATED)	54 x 24	2	-	9.00	-	-	-
443+02	RT	8-9	W3-5	Speed Limit 40 Ahead [Arrow]	x	-	-	-	-	1	1
446+00	RT	8-10	W3-5	Speed Limit 40 Ahead [Arrow]	36 x 36	1	-	-	9.00	-	-
446+76	LT	8-11	W14-3	No Passing Zone	48 x 36	1	-	-	6.00	1	1
449+00	LT	8-12	D2-1	Frederic 5	66 x 15	-	2	6.88	-	-	-
450+98	LT	8-13	R2-1	Speed Limit 55 MPH	24 x 30	1	-	5.00	-	-	-
450+98	RT	8-14	R2-1	Speed Limit 40 MPH	24 x 30	1	-	5.00	-	1	1
452+93	LT	8-15	J4-1	South 35	24 x 36	-	1	6.00	-	1	1
452+93	LT	8-16	D2-1	Frederic 5	x	-	-	-	-	1	-
454+42	LT	9-1	R2-1	Speed Limit 55 MPH	x	-	-	-	-	1	1
455+17	RT	9-2	R1-1	Stop	30 x 30	1	-	5.18	-	1	1
456+19	RT	9-3	R2-1	Speed Limit 40 MPH	24 x 30	1	-	5.00	-	1	1
458+81	LT	9-4	R1-1	Stop	30 x 30	1	-	5.18	-	1	1
460+36	RT	9-5	R1-1	Stop	30 x 30	1	-	5.18	-	1	1
462+39	LT	9-6	R2-1	Speed Limit 40 MPH	x	-	-	-	-	1	1
463+93	RT	9-7	R2-1	Speed Limit 40 MPH	24 x 30	1	-	5.00	-	1	1
467+34	LT	9-8	W14-3	No Passing Zone	48 x 36	1	-	-	6.00	1	1
467+34	RT	9-9	J1-1	JCT, County E	24 x 39	-	1	6.50	-	1	1
467+35	RT	9-10	W14-3	No Passing Zone	48 x 36	1	-	-	6.00	1	-
468+73	RT	9-11	D1-1	Clam Falls [RA]	78 x 15	2	-	8.13	-	1	2
471+00	LT	9-12	R2-1	Speed Limit 40 MPH	24 x 30	1	-	5.00	-	-	-
472+72	LT	9-13	R2-1	Speed Limit 40 MPH	x	-	-	-	-	1	1
472+96	LT	9-14	J4-1	South 35	24 x 36	-	1	6.00	-	-	-
473+22	RT	9-15	J13-1	County E, [RA]	24 x 45	-	1	7.50	-	2	1
473+90	LT	9-16	R1-1	Stop	30 x 30	1	-	5.18	-	1	1
474+23	RT	9-17	R1-1	Stop	36 x 36	1	-	7.46	-	1	1
474+33	RT	9-18	J13-1	35, [DA]	24 x 45	-	1	7.50	-	-	-
474+71	LT	9-19	J13-1	County E, [LA]	24 x 45	-	1	7.50	-	2	1
475+78	RT	9-20	J4-1	North 35	24 x 36	-	1	6.00	-	1	1
475+78	RT	9-21	D2-1	Siren 6	x	-	-	-	-	1	-
477+16	RT	9-22	R2-1	Speed Limit 55 MPH	x	-	-	-	-	1	1
478+31	LT	9-23	D1-1	[LA] Clam Falls	78 x 18	2	-	9.75	-	1	2
480+00	RT	9-24	D2-1	Siren 6	48 x 15	-	1	5.00	-	-	-
482+19	LT	10-1	R2-1	Speed Limit 40 MPH	24 x 30	1	-	5.00	-	1	1
482+23	RT	10-2	R2-1	Speed Limit 55 MPH	24 x 30	1	-	5.00	-	-	-
483+35	LT	10-3	J1-1	JCT, County E	24 x 39	-	1	6.50	-	2	1
486+64	LT	10-4	I-2-3U	Lewis (UNINCORPORATED)	60 x 24	2	-	10.00	-	1	2
488+16	LT	10-5	W3-5	Speed Limit 40 Ahead [Arrow]	36 x 36	1	-	-	9.00	1	1
				SUBTOTAL		31	11	195.97	42	39	36

ALL ITEMS AND QUANTITIES ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

PERMANENT SIGNING SCHEDULE

STATION	OFFSET	SIGN NO.	CODE NO.	DESCRIPTION	SIZE IN X IN	634.0614 POSTS WOOD 4X6-INCH 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH 16-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH
491+00	RT	10-6	W14-3	No Passing Zone	48 x 36	1	-	-	6.00	1	1
492+17	LT	10-7	W14-3	No Passing Zone	48 x 36	1	-	-	6.00	1	1
503+25	RT	10-8	W2-2	Side Road (90 Degrees)	30 x 30	1	-	-	6.25	1	1
511+59	RT	11-1	R1-1	Stop	30 x 30	1	-	5.18	-	1	1
523+22	LT	11-2	W14-3	No Passing Zone	48 x 36	1	-	-	6.00	1	1
527+13	RT	11-3	W14-3	No Passing Zone	48 x 36	1	-	-	6.00	1	1
534+79	LT	11-4	I-2-2	Polk Co	42 x 15	-	1	4.38	-	1	1
534+79	RT	11-5	I-2-2	Burnett Co	54 x 15	1	-	5.63	-	1	1
534+84	LT	11-6	I-55-56	Adopt-A-Highway [Sponsor]	30 x 36	-	1	7.50	-	1	1
542+15	RT	12-1	D7-67	Melvin Daniels County Park 1/2 Mile	72 x 36	2	-	18.00	-	1	2
552+64	LT	12-2	W14-3	No Passing Zone	48 x 36	1	-	-	6.00	1	1
558+36	RT	12-3	W14-3	No Passing Zone	48 x 36	1	-	-	6.00	1	1
561+60	RT	12-4	R1-1	Stop	30 x 30	1	-	5.18	-	1	1
569+00	RT	13-1	D7-68-L	Melvin Daniels County Park [LA]	60 x 36	2	-	15.00	-	-	-
569+81	LT	13-2	R5-53A	Buckle Up - Its The Law	x	-	-	-	-	1	1
569+89	LT	13-3	R1-1	Stop	30 x 30	1	-	5.18	-	1	1
571+00	LT	13-4	D7-68-R	Melvin Daniels County Park [RA]	60 x 36	2	-	15.00	-	-	-
571+75	LT	13-5	S3-1	School Bus Stop Ahead	36 x 36	1	-	-	9.00	1	1
590+08	LT	13-6	R1-1	Stop	30 x 30	1	-	5.18	-	1	1
597+86	LT	14-1	D7-67	Melvin Daniels County Park 1/2 Mile	72 x 36	2	-	18.00	-	1	2
607+59	RT	14-2	W14-3	No Passing Zone	48 x 36	1	-	-	6.00	1	1
611+28	LT	14-3	W14-3	No Passing Zone	48 x 36	1	-	-	6.00	1	1
631+83	RT	15-1	W2-2	Side Road (90 Degrees)	30 x 30	1	-	-	6.25	1	1
640+65	RT	15-2	R1-1	Stop	30 x 30	1	-	5.18	-	1	1
658+81	RT	16-1	W3-5	Speed Limit 40 Ahead [Arrow]	36 x 36	-	-	-	-	1	1
662+22	RT	16-2	W3-5	Speed Limit 40 Ahead [Arrow]	36 x 36	1	-	-	9.00	-	-
665+48	RT	16-3	I-2-3	Siren / Population 806	54 x 24	2	-	9.00	-	1	2
665+48	RT	16-4	-	Local Sign	x	-	-	-	-	1	-
665+48	RT	16-5	-	Local Sign	x	-	-	-	-	1	-
666+12	LT	16-6	R2-1	Speed Limit 55 MPH	x	-	-	-	-	1	1
666+63	LT	16-7	R7-1R	No Parking Any Time - RIGHT Arrow	18 x 24	1	-	3.00	-	1	1
667+18	LT	16-8	R2-1	Speed Limit 55 MPH	24 x 30	1	-	5.00	-	-	-
667+22	RT	16-9	R2-1	Speed Limit 40 MPH	24 x 30	-	-	5.00	-	1	-
667+22	RT	16-10	-	Local Sign	x	-	-	-	-	1	-
667+22	LT	16-11	R1-1	Stop	30 x 30	1	-	5.18	-	1	1
667+39	RT	16-12	R7-1L	No Parking Any Time - LEFT Arrow	x	-	-	-	-	1	1
667+39	RT	16-13	W14-3	No Passing Zone	48 x 36	1	-	-	6.00	1	-
668+00	RT	16-14	R7-1L	No Parking Any Time - LEFT Arrow	18 x 24	1	-	3.00	-	-	-
669+13	LT	16-15	R7-1D	No Parking Any Time - Double Arrow	18 x 24	1	-	3.00	-	1	1
669+58	RT	16-16	W1-4R	Right Reverse Curve	30 x 30	-	-	-	6.25	1	1
669+58	RT	16-17	R7-1D	No Parking Any Time - Double Arrow	x	-	-	-	-	1	-
670+00	RT	16-18	R7-1D	No Parking Any Time - Double Arrow	18 x 24	1	-	3.00	-	-	-
671+35	LT	16-19	W14-3	No Passing Zone	48 x 36	1	-	-	6.00	1	1
671+38	LT	16-20	R2-1	Speed Limit 40 MPH	24 x 30	-	-	5.00	-	1	-
671+65	RT	16-21	R2-1	Speed Limit 40 MPH	24 x 30	1	-	5.00	-	1	1
				SUBTOTAL		37	2	155.58	96.75	39	35

ALL ITEMS AND QUANTITIES ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

PERMANENT SIGNING SCHEDULE

STATION	OFFSET	SIGN NO.	CODE NO.	DESCRIPTION	SIZE IN X IN	634.0614 POSTS WOOD 4X6-INCH 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH 16-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH
671+96	LT	16-22	R7-1D	No Parking Any Time - Double Arrow	18 x 24	1	-	3.00	-	1	1
672+26	RT	16-23	R7-1D	No Parking Any Time - Double Arrow	18 x 24	1	-	3.00	-	1	1
672+80	LT	16-24	R1-1	Stop	30 x 30	1	-	5.18	-	1	1
673+47	LT	16-25	R7-1D	No Parking Any Time - Double Arrow	18 x 24	1	-	3.00	-	1	1
673+75	RT	16-26	R7-1D	No Parking Any Time - Double Arrow	18 x 24	1	-	3.00	-	1	1
675+05	RT	16-27	W11-2	Pedestrian Crossing Symbol	x	-	-	-	-	1	1
676+05	RT	16-28	R7-1D	No Parking Any Time - Double Arrow	18 x 24	1	-	3.00	-	1	1
676+27	LT	16-29	R2-1	Speed Limit 40 MPH	24 x 30	1	-	5.00	-	1	1
676+70	RT	16-30	W11-2	Pedestrian Crossing Symbol	30 x 30	-	1	-	6.25	-	-
676+70	RT	16-31	W16-9P	Ahead Plaque	24 x 8	-	-	-	1.33	-	-
677+57	RT	17-1	S3-1	School Bus Stop Ahead	36 x 36	1	-	-	9.00	1	1
678+69	RT	17-2	R2-1	Speed Limit 40 MPH	24 x 30	1	-	5.00	-	1	1
678+98	LT	17-3	R7-1D	No Parking Any Time - Double Arrow	18 x 24	1	-	3.00	-	1	1
679+26	RT	17-4	R7-1D	No Parking Any Time - Double Arrow	18 x 24	1	-	3.00	-	1	1
680+99	RT	17-5	W11-2	Pedestrian Crossing Symbol	30 x 30	-	1	-	6.25	-	-
680+99	RT	17-6	W16-7L	Down Arrow Left	24 x 12	-	-	-	2.00	-	-
681+87	RT	17-7	R1-1	Stop	30 x 30	1	-	5.18	-	1	1
682+22	LT	17-8	W11-2	Pedestrian Crossing Symbol	30 x 30	-	1	-	6.25	-	-
682+22	LT	17-9	W16-7L	Down Arrow Left	24 x 12	-	-	-	2.00	-	-
683+98	LT	17-10	R7-1D	No Parking Any Time - Double Arrow	18 x 24	1	-	3.00	-	1	1
684+26	RT	17-11	R7-1D	No Parking Any Time - Double Arrow	18 x 24	1	-	3.00	-	1	1
685+22	LT	17-12	W11-2	Pedestrian Crossing Symbol	30 x 30	-	1	-	6.25	-	-
685+22	LT	17-13	W16-9P	Ahead Plaque	24 x 8	-	-	-	1.33	-	-
687+44	RT	17-14	R2-1	Speed Limit 40 MPH	24 x 30	1	-	5.00	-	1	1
687+44	RT	17-15	R7-1D	No Parking Any Time - Double Arrow	x	-	-	-	-	1	-
688+02	RT	17-16	R7-1D	No Parking Any Time - Double Arrow	18 x 24	1	-	3.00	-	-	-
690+32	LT	17-17	R7-1D	No Parking Any Time - Double Arrow	18 x 24	1	-	3.00	-	1	1
690+49	RT	17-18	R7-1D	No Parking Any Time - Double Arrow	18 x 24	1	-	3.00	-	1	1
692+34	LT	17-19	R7-1D	No Parking Any Time - Double Arrow	18 x 24	1	-	3.00	-	1	1
693+05	RT	17-20	R7-1D	No Parking Any Time - Double Arrow	18 x 24	1	-	3.00	-	1	1
694+09	LT	17-21	R7-1D	No Parking Any Time - Double Arrow	18 x 24	1	-	3.00	-	1	1
694+83	RT	17-22	R7-1D	No Parking Any Time - Double Arrow	18 x 24	1	-	3.00	-	1	1
695+77	LT	17-23	R7-1D	No Parking Any Time - Double Arrow	18 x 24	1	-	3.00	-	1	1
696+30	LT	17-24	S3-1	School Bus Stop Ahead	36 x 36	1	-	-	9.00	1	1
696+30	LT	17-25	R7-1D	No Parking Any Time - Double Arrow	x	-	-	-	-	1	-
696+57	RT	17-26	R7-1D	No Parking Any Time - Double Arrow	18 x 24	1	-	3.00	-	1	1
697+54	LT	17-27	R7-1D	No Parking Any Time - Double Arrow	18 x 24	1	-	3.00	-	-	-
698+70	LT	17-28	R2-1	Speed Limit 40 MPH	24 x 30	1	-	5.00	-	1	1
698+70	LT	17-29	R7-1D	No Parking Any Time - Double Arrow	x	-	-	-	-	1	-
698+83	RT	17-30	R2-1	Speed Limit 40 MPH	24 x 30	1	-	5.00	-	1	1
698+83	RT	17-31	R7-1D	No Parking Any Time - Double Arrow	x	-	-	-	-	1	-
699+06	LT	17-32	I-3-1	Clear Lake	36 x 12	1	-	3.00	-	1	1
699+42	RT	17-33	W11-2	Pedestrian Crossing Symbol	30 x 30	-	1	-	6.25	-	-
699+42	RT	17-34	W16-9P	Ahead Plaque	24 x 8	-	-	-	1.33	-	-
699+93	RT	17-35	R7-1D	No Parking Any Time - Double Arrow	18 x 24	1	-	3.00	-	1	1
				SUBTOTAL		30	5	98.36	57.25	33	29

ALL ITEMS AND QUANTITIES ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

PERMANENT SIGNING SCHEDULE

STATION	OFFSET	SIGN NO.	CODE NO.	DESCRIPTION	SIZE IN X IN	634.0614 POSTS WOOD 4X6-INCH 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH 16-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH
701+43	LT	17-36	R7-1D	No Parking Any Time - Double Arrow	18 x 24	1	-	3.00	-	1	1
701+50	RT	17-37	R7-1D	No Parking Any Time - Double Arrow	18 x 24	1	-	3.00	-	1	1
701+98	LT	17-38	W1-4R	Right Reverse Curve	30 x 30	1	-	-	6.25	1	1
702+06	RT	17-39	W11-2	Pedestrian Crossing Symbol	30 x 30	-	1	-	6.25	-	-
702+06	RT	17-40	W16-7L	Down Arrow Left	24 x 12	-	-	-	2.00	-	-
702+19	LT	17-41	R1-1	Stop	30 x 30	1	-	5.18	-	1	1
703+00	LT	17-42	W14-3	No Passing Zone	48 x 36	1	-	-	6.00	1	1
703+00	RT	17-43	W14-3	No Passing Zone	48 x 36	1	-	-	6.00	1	1
703+17	LT	17-44	W11-2	Pedestrian Crossing Symbol	30 x 30	-	1	-	6.25	-	-
703+17	LT	17-45	W16-7L	Down Arrow Left	24 x 12	-	-	-	2.00	-	-
703+99	LT	17-46	R7-1D	No Parking Any Time - Double Arrow	18 x 24	1	-	3.00	-	1	1
704+14	RT	17-47	R7-1D	No Parking Any Time - Double Arrow	18 x 24	1	-	3.00	-	1	1
706+03	LT	18-1	W11-2	Pedestrian Crossing Symbol	30 x 30	-	1	-	6.25	-	-
706+03	LT	18-2	W16-9P	Ahead Plaque	24 x 8	-	-	-	1.33	-	-
706+58	LT	18-3	R7-1D	No Parking Any Time - Double Arrow	18 x 24	1	-	3.00	-	1	1
706+64	RT	18-4	R7-1D	No Parking Any Time - Double Arrow	18 x 24	1	-	3.00	-	1	1
707+44	RT	18-5	W11-2	Pedestrian Crossing Symbol	30 x 30	-	1	-	6.25	-	-
707+44	RT	18-6	W16-9P	Ahead Plaque	24 x 8	-	-	-	1.33	-	-
708+90	LT	18-7	R7-1D	No Parking Any Time - Double Arrow	18 x 24	1	-	3.00	-	-	-
709+40	LT	18-8	R2-1	Speed Limit 40 MPH	24 x 30	1	-	5.00	-	1	1
709+40	LT	18-9	R7-1D	No Parking Any Time - Double Arrow	x	-	-	-	-	1	-
709+78	RT	18-10	R7-1D	No Parking Any Time - Double Arrow	18 x 24	1	-	3.00	-	1	1
710+03	RT	18-11	W11-2	Pedestrian Crossing Symbol	30 x 30	-	1	-	6.25	-	-
710+03	RT	18-12	W16-7L	Down Arrow Left	24 x 12	-	-	-	2.00	-	-
710+60	RT	18-13	R1-1	Stop	30 x 30	1	-	5.18	-	1	1
710+79	LT	18-14	W11-2	Pedestrian Crossing Symbol	30 x 30	-	1	-	6.25	-	-
710+79	LT	18-15	W16-7L	Down Arrow Left	24 x 12	-	-	-	2.00	-	-
710+93	RT	18-16	R2-1	Speed Limit 40 MPH	24 x 30	1	-	5.00	-	1	1
712+07	RT	18-17	W11-2	Pedestrian Crossing Symbol	x	-	-	-	-	1	1
712+07	RT	18-18	R7-1D	No Parking Any Time - Double Arrow	x	-	-	-	-	1	-
712+07	LT	18-19	R7-1D	No Parking Any Time - Double Arrow	18 x 24	1	-	3.00	-	1	1
712+49	RT	18-20	R7-1D	No Parking Any Time - Double Arrow	18 x 24	1	-	3.00	-	-	-
713+39	RT	18-21	W11-2	Pedestrian Crossing Symbol	30 x 30	-	1	-	6.25	-	-
713+39	RT	18-22	W16-7L	Down Arrow Left	24 x 12	-	-	-	2.00	-	-
713+45	LT	18-23	R1-1	Stop	30 x 30	1	-	5.18	-	1	1
714+00	RT	18-24	R1-1	Stop	30 x 30	1	-	5.18	-	1	1
714+10	LT	18-25	W11-2	Pedestrian Crossing Symbol	30 x 30	-	1	-	6.25	-	-
714+10	LT	18-26	W16-7L	Down Arrow Left	24 x 12	-	-	-	2.00	-	-
714+69	LT	18-27	R7-1D	No Parking Any Time - Double Arrow	18 x 24	1	-	3.00	-	1	1
715+02	RT	18-28	R7-1D	No Parking Any Time - Double Arrow	18 x 24	1	-	3.00	-	1	1
716+00	LT	18-29	W1-2L	Left Curve	30 x 30	1	-	-	6.25	-	-
716+71	RT	18-30	W11-2	Pedestrian Crossing Symbol	30 x 30	-	1	-	6.25	-	-
716+71	RT	18-31	W16-7L	Down Arrow Left	24 x 12	-	-	-	2.00	-	-
716+73	LT	18-32	R1-1	Stop	30 x 30	1	-	5.18	-	1	1
717+23	LT	18-33	W11-2	Pedestrian Crossing Symbol	30 x 30	-	1	-	6.25	-	-
				SUBTOTAL		23	10	71.9	103.67	23	21

ALL ITEMS AND QUANTITIES ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

PERMANENT SIGNING SCHEDULE

STATION	OFFSET	SIGN NO.	CODE NO.	DESCRIPTION	SIZE IN X IN	634.0614 POSTS WOOD 4X6-INCH 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH 16-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH
717+23	LT	18-34	W16-7L	Down Arrow Left	24 x 12	-	-	-	2.00	-	-
718+24	LT	18-35	R7-1D	No Parking Any Time - Double Arrow	18 x 24	1	-	3.00	-	1	1
718+46	RT	18-36	W14-3	No Passing Zone	48 x 36	1	-	-	6.00	1	1
719+58	RT	18-37	R7-1D	No Parking Any Time - Double Arrow	18 x 24	1	-	3.00	-	1	1
719+64	LT	18-38	R7-1D	No Parking Any Time - Double Arrow	18 x 24	1	-	3.00	-	1	1
720+75	LT	18-39	W11-2	Pedestrian Crossing Symbol	30 x 30	-	1	-	6.25	-	-
720+75	LT	18-40	W16-9P	Ahead Plaque	24 x 8	-	-	-	1.33	-	-
721+69	LT	18-41	W1-2L	Left Curve	x	-	-	-	-	1	1
721+78	LT	18-42	R7-1D	No Parking Any Time - Double Arrow	18 x 24	1	-	3.00	-	-	-
722+16	RT	18-43	R2-1	Speed Limit 40 MPH	24 x 30	-	-	5.00	-	1	1
722+39	LT	18-44	R2-1	Speed Limit 40 MPH	24 x 30	1	-	5.00	-	1	1
722+39	LT	18-45	R7-1D	No Parking Any Time - Double Arrow	x	-	-	-	-	1	-
723+56	LT	18-46	W11-2	Pedestrian Crossing Symbol	x x x	-	-	-	-	1	1
723+81	RT	18-48	R1-1	Stop	30 x 30	1	-	5.18	-	1	1
724+49	LT	18-49	R7-1L	No Parking Any Time - LEFT Arrow	18 x 24	1	-	3.00	-	1	1
724+72	RT	18-50	R7-1D	No Parking Any Time - Double Arrow	18 x 24	1	-	3.00	-	1	1
727+01	RT	18-51	R7-1R	No Parking Any Time - RIGHT Arrow	18 x 24	1	-	3.00	-	-	-
728+03	LT	18-52	D5-5B	Roadside Table Symbol 1/2 Mile	x	-	-	-	-	1	1
731+21	LT	18-53	R2-1	Speed Limit 40 MPH	24 x 30	1	-	5.00	-	1	1
737+31	RT	19-1	R1-1	Stop	30 x 30	1	-	5.18	-	1	1
738+19	RT	19-2	J1-2	JCT, 70, JCT, County B	48 x 39	-	1	13.00	-	4	1
739+17	LT	19-3	R59-51	Stop for Bus Flashing Lights	36 x 36	1	-	9.00	-	1	1
740+14	LT	19-4	R1-1	Stop	30 x 30	1	-	5.18	-	1	1
740+37	RT	19-5	R1-1	Stop	30 x 30	1	-	5.18	-	1	1
741+36	LT	19-6	R2-1	Speed Limit 40 MPH	24 x 30	1	-	5.00	-	1	1
741+39	RT	19-7	R2-1	Speed Limit 30 MPH	24 x 30	1	-	5.00	-	1	1
742+56	LT	19-8	W14-3	No Passing Zone	48 x 36	1	-	-	6.00	1	1
743+24	RT	19-9	R1-1	Stop	30 x 30	1	-	5.18	-	1	1
743+61	LT	19-10	J4-1	South 35	24 x 36	-	1	6.00	-	2	1
743+96	RT	19-11	D1-3	[UA] Superior / Spooner / [LA] Grantsburg	x	-	-	-	-	1	2
745+41	LT	19-12	R5-53A	Buckle Up - Its The Law	x	-	-	-	-	1	1
745+89	RT	19-13	W3-3	Signal Ahead	36 x 36	1	-	-	9.00	1	1
746+80	RT	19-14	R1-1	Stop	30 x 30	1	-	5.18	-	1	1
748+13	RT	19-15	D1-3	[UA] Webster / Spooner / [LA] Grantsburg	84 x 36	2	-	21.00	-	-	-
				SUBTOTAL		23	3	126.08	30.58	32	28
				PROJECT TOTAL		**178**	**36**	**797.51**	**447.25**	**209**	**190**

633.0200 DELINEATORS FLEXIBLE

STATION	OFFSET	DESCRIPTION	EACH
458+65	RT	Yellow Post, Yellow Reflective Sheeting	7
464+60	RT	Yellow Post, Yellow Reflective Sheeting	10
		TOTAL	**17**

ALL ITEMS AND QUANTITIES ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

PAVEMENT MARKING

				646.0106 PAVEMENT MARKING EPOXY 4-INCH		646.0126 PAVMENT MARKING EPOXY 8-INCH	646.0406 PAVMENT MARKING SAME DAY EPOXY 4-INCH	647.0566 STOP LINE EPOXY 18-INCH	649.0402 TEMPORARY PAVEMENT MARKING PAINT 4-INCH	
				(WHITE)	(YELLOW)	(WHITE)	(YELLOW CENTER LINE)			
STATION	TO	STATION	LOCATION	LF	LF	LF	LF*	LF	LF*	COMMENT
232+00	-	247+50	CL	-	391	-	391	-	-	NB DASHED CENTERLINE
232+00	-	242+00	CL	-	1,010	-	1,010	-	-	SB SOLID CENTERLINE
232+00	-	255+50	RT	2,374	-	-	-	-	-	NB EDGELINE
232+00	-	255+50	LT	2,374	-	-	-	-	-	SB EDGELINE
247+50	-	328+00	CL	-	8,131	-	8,131	-	-	NB SOLID CENTERLINE
247+50	-	279+50	CL	-	808	-	808	-	-	SB DASHED CENTERLINE
254+00	-	294+00	RT	1,010	-	-	-	-	-	NB DASHED CLIMBING LANE
256+50	-	298+00	RT	4,192	-	-	-	-	-	NB EDGELINE
256+50	-	298+50	LT	4,242	-	-	-	-	-	SB EDGELINE
279+50	-	345+00	CL	-	6,616	-	6,616	-	-	SB SOLID CENTERLINE
289+00	-	337+00	LT	1,212	-	-	-	-	-	SB DASHED CLIMBING LANE
298+50	-	316+00	RT	1,768	-	-	-	-	-	NB EDGELINE
299+00	-	368+50	LT	7,020	-	-	-	-	-	SB EDGELINE
316+75	-	368+00	RT	5,176	-	-	-	-	-	NB EDGELINE
328+00	-	350+00	CL	-	556	-	556	-	-	NB DASHED CENTERLINE
350+00	-	372+50	CL	-	2,273	-	2,273	-	-	NB SOLID CENTERLINE
350+00	-	363+00	CL	-	328	-	328	-	-	SB DASHED CENTERLINE
363+00	-	386+50	CL	-	2,374	-	2,374	-	-	SB SOLID CENTERLINE
369+00	-	436+50	RT	6,818	-	-	-	-	-	NB EDGELINE
369+50	-	431+50	LT	6,262	-	-	-	-	-	SB EDGELINE
372+50	-	382+50	CL	-	253	-	253	-	-	NB DASHED CENTERLINE
382+50	-	417+50	CL	-	3,535	-	3,535	-	-	NB SOLID CENTERLINE
386+50	-	396+50	CL	-	253	-	253	-	-	SB DASHED CENTERLINE
396+50	-	430+50	CL	-	3,434	-	3,434	-	-	SB SOLID CENTERLINE
417+50	-	446+50	CL	-	732	-	732	-	-	NB DASHED CENTERLINE
433+00	-	458+50	LT	2,576	-	-	-	-	-	SB EDGELINE
437+00	-	454+00	RT	1,717	-	-	-	-	-	NB EDGELINE
446+50	-	459+00	CL	-	1,263	-	1,263	-	-	NB SOLID CENTERLINE
446+50	-	459+00	CL	-	316	-	316	-	-	SB DASHED CENTERLINE
455+00	-	459+25	RT	429	-	-	-	-	-	NB EDGELINE
459+00	-	466+50	CL	-	189	-	189	-	-	NB DASHED CENTERLINE
459+00	-	466+50	CL	-	758	-	758	-	-	SB SOLID CENTERLINE
460+00	-	473+50	LT	1,364	-	-	-	-	-	SB EDGELINE
460+50	-	473+00	RT	1,263	-	-	-	-	-	NB EDGELINE
466+50	-	477+50	CL	-	1,111	-	1,111	-	-	NB SOLID CENTERLINE
466+50	-	474+50	CL	-	202	-	202	-	-	SB DASHED CENTERLINE
470+00	-	473+00	RT	-	-	300	-	-	-	CHANNELIZING LANE LINE CTH E
474+50	-	RT 50' - RT 125'		-	150	-	150	-	-	DOUBLE YELLOW CENTERLINE CTH E
474+50	-	510+50	RT	3,636	-	-	-	-	-	NB EDGELINE
474+50	-	569+50	LT	9,595	-	-	-	-	-	SB EDGELINE
474+50	-	491+00	CL	-	1,667	-	1,667	-	-	SB SOLID CENTERLINE
477+50	-	492+00	CL	-	366	-	366	-	-	NB DASHED CENTERLINE
492+00	-	504+00	CL	-	303	-	303	-	-	SB DASHED CENTERLINE
492+00	-	513+50	CL	-	2,172	-	2,172	-	-	NB SOLID CENTERLINE
504+00	-	526+50	CL	-	2,273	-	2,273	-	-	SB SOLID CENTERLINE
			SUBTOTALS	63,024	41,459	300	41,459	0	0	

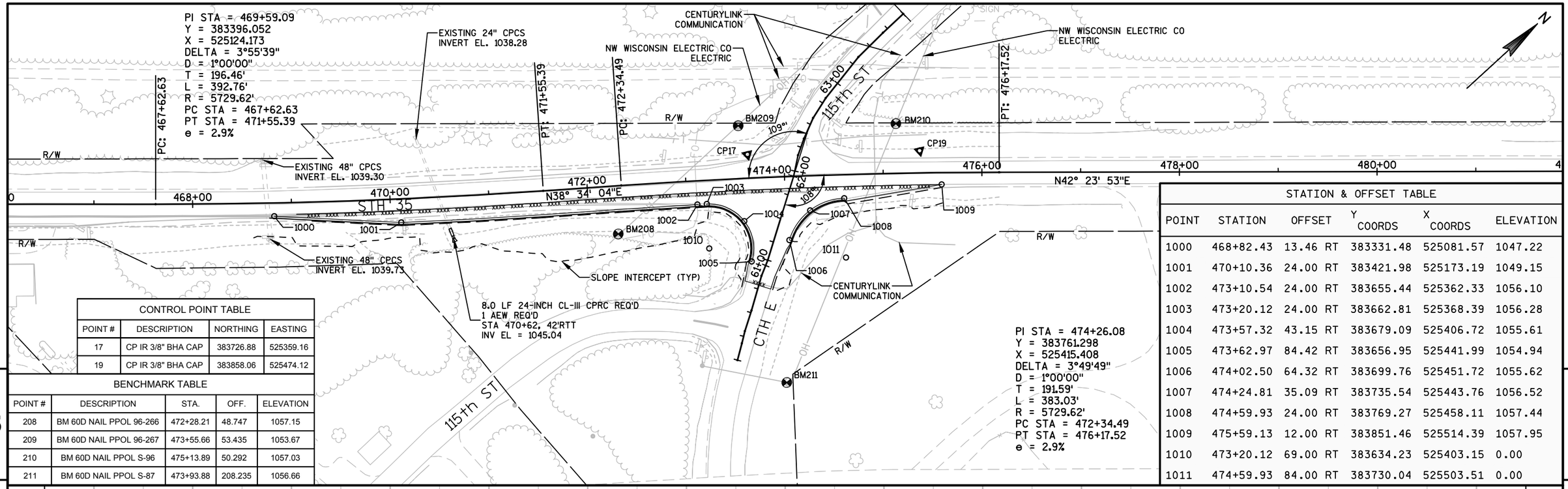
ALL ITEMS AND QUANTITIES ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

PAVEMENT MARKING (CONT'D)

				646.0106 PAVEMENT MARKING EPOXY 4-INCH		646.0126 PAVMENT MARKING EPOXY 8-INCH	646.0406 PAVMENT MARKING SAME DAY EPOXY 4-INCH	647.0566 STOP LINE EPOXY 18-INCH	649.0402 TEMPORARY PAVEMENT MARKING PAINT 4-INCH	
				(WHITE)	(YELLOW)	(WHITE)	(YELLOW CENTER LINE)			
STATION	TO	STATION	LOCATION	LF	LF	LF	LF*	LF	LF*	COMMENT
511+50	-	561+00	RT	5,000	-	-	-	-	-	NB EDGELINE
513+50	-	522+50	CL	-	227	-	227	-	-	NB DASHED CENTERLINE
522+50	-	545+00	CL	-	2,273	-	2,273	-	-	NB SOLID CENTERLINE
526+50	-	537+00	CL	-	265	-	265	-	-	SB DASHED CENTERLINE
537+00	-	558+50	CL	-	2,172	-	2,172	-	-	SB SOLID CENTERLINE
545+00	-	553+50	CL	-	215	-	215	-	-	NB DASHED CENTERLINE
558+50	-	568+00	CL	-	240	-	240	-	-	SB DASHED CENTERLINE
561+50	-	639+50	RT	7,878	-	-	-	-	-	NB EDGELINE
568+00	-	608+00	CL	-	4,040	-	4,040	-	-	SB SOLID CENTERLINE
570+50	-	589+50	LT	1,919	-	-	-	-	-	SB EDGELINE
570+50	-	575+00	LT	-	-	450	-	-	-	CHANNELIZING LANE LINE
591+00	-	667+00	LT	7,676	-	-	-	-	-	SB EDGELINE
553+50	-	594+50	CL	-	4,141	-	4,141	-	-	NB SOLID CENTERLINE
594+50	-	616+50	CL	-	556	-	556	-	-	NB DASHED CENTERLINE
616+50	-	651+50	CL	-	3,535	-	3,535	-	-	NB SOLID CENTERLINE
616+50	-	631+50	CL	-	379	-	379	-	-	SB DASHED CENTERLINE
631+50	-	667+00	CL	-	3,586	-	3,586	-	-	SB SOLID CENTERLINE
640+50	-	681+00	RT	4,091	-	-	-	-	-	NB EDGELINE
652+50	-	671+00	CL	-	467	-	467	-	-	NB DASHED CENTERLINE
668+00	-	672+75	LT	480	-	-	-	-	-	SB EDGELINE
671+00	-	694+00	CL	-	2,323	-	2,323	-	-	NB SOLID CENTERLINE
671+00	-	679+50	CL	-	215	-	215	-	-	SB DASHED CENTERLINE
673+25	-	702+00	LT	2,904	-	-	-	-	-	SB EDGELINE
679+50	-	703+00	CL	-	2,374	-	2,374	-	-	SB SOLID CENTERLINE
681+50	-	710+00	RT	2,879	-	-	-	-	-	NB EDGELINE
694+00	-	703+00	CL	-	227	-	227	-	-	NB DASHED CENTERLINE
703+00	-	713+25	LT	1,035	-	-	-	-	-	SB EDGELINE
703+00	-	715+00	CL	-	303	-	303	-	-	SB DASHED CENTERLINE
703+00	-	715+00	CL	-	1,212	-	1,212	-	-	NB SOLID CENTERLINE
710+50	-	713+50	RT	303	-	-	-	-	-	NB EDGELINE
714+00	-	716+50	LT	253	-	-	-	-	-	SB EDGELINE
714+25	-	723+25	RT	909	-	-	-	-	-	NB EDGELINE
717+25	-	740+25	LT	2,323	-	-	-	-	-	SB EDGELINE
715+00	-	742+50	CL	-	694	-	694	-	-	NB DASHED CENTERLINE
724+00	-	736+50	RT	1,263	-	-	-	-	-	NB EDGELINE
737+50	-	740+00	RT	253	-	-	-	-	-	NB EDGELINE
740+75	-	742+75	RT	202	-	-	-	-	-	NB EDGELINE
741+00	-	746+47	LT	552	-	-	-	-	-	SB EDGELINE
743+25	-	746+47	RT	325	-	-	-	-	-	NB EDGELINE
742+50	-	746+47	CL	-	401	-	401	-	-	NB SOLID CENTERLINE
742+50	-	746+47	CL	-	100	-	100	-	-	SB DASHED CENTERLINE
232+00	-	746+50	C/L	-	-	-	-	-	25,725	DASHED CENTERLINE 2 LAYERS
474+00	-	474+20	RT	-	-	-	-	20	-	INTERSECTION OF CTH E / STH 35
			SUBTOTALS	40,242	29,943	450	29,943	20	25,725	
			TOTAL	**174,668**		**750**	**71,402**	**20**	**25,725**	

*NOTES:
PLACEMENT OF PAVEMENT MARKING SAME DAY EPOXY TO BE COMPLETED PRIOR TO PLACEMENT OF RUMBLE STRIPS. APPLICATIONS RATE SHALL BE 16.5 GALLONS PER MILE (15 MIL THICKNESS). AFTER COMPLETION OF ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL, CONTRACTOR WILL PLACE PAVEMENT MARKING EPOXY 4-INCH AT THE APPLICATION RATE OF 22 GALLONS PER MILE (20 MIL THICKNESS). TEMPORARY PAVEMENT MARKING ACCOUNTS FOR PAINTING THE MILLED SURFACE AND A LEVELING LAYER OF PAVEMENT.

ALL ITEMS AND QUANTITIES ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED



CONTROL POINT TABLE			
POINT #	DESCRIPTION	NORTHING	EASTING
17	CP IR 3/8" BHA CAP	383726.88	525359.16
19	CP IR 3/8" BHA CAP	383858.06	525474.12

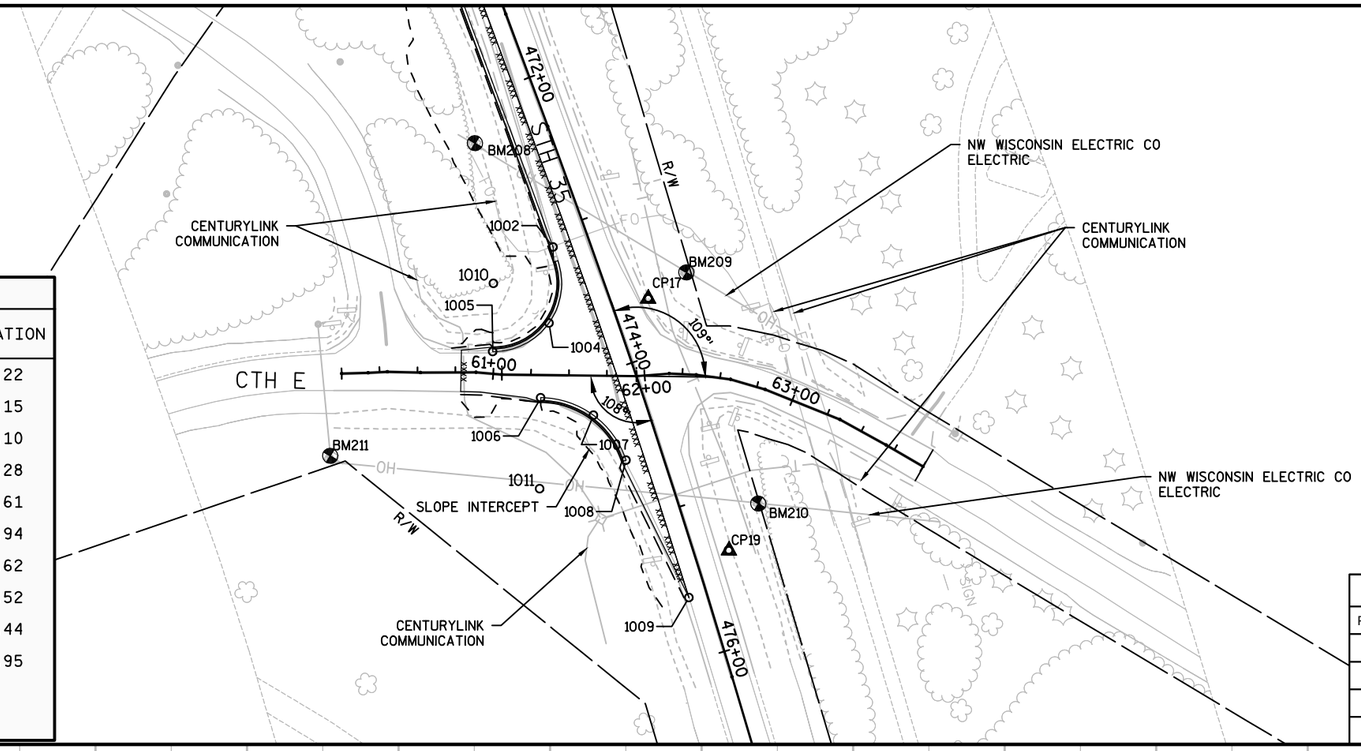
BENCHMARK TABLE				
POINT #	DESCRIPTION	STA.	OFF.	ELEVATION
208	BM 60D NAIL PPOL 96-266	472+28.21	48.747	1057.15
209	BM 60D NAIL PPOL 96-267	473+55.66	53.435	1053.67
210	BM 60D NAIL PPOL S-96	475+13.89	50.292	1057.03
211	BM 60D NAIL PPOL S-87	473+93.88	208.235	1056.66

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
1000	468+82.43	13.46 RT	383331.48	525081.57	1047.22
1001	470+10.36	24.00 RT	383421.98	525173.19	1049.15
1002	473+10.54	24.00 RT	383655.44	525362.33	1056.10
1003	473+20.12	24.00 RT	383662.81	525368.39	1056.28
1004	473+57.32	43.15 RT	383679.09	525406.72	1055.61
1005	473+62.97	84.42 RT	383656.95	525441.99	1054.94
1006	474+02.50	64.32 RT	383699.76	525451.72	1055.62
1007	474+24.81	35.09 RT	383735.54	525443.76	1056.52
1008	474+59.93	24.00 RT	383769.27	525458.11	1057.44
1009	475+59.13	12.00 RT	383851.46	525514.39	1057.95
1010	473+20.12	69.00 RT	383634.23	525403.15	0.00
1011	474+59.93	84.00 RT	383730.04	525503.51	0.00

1050.14	1049.29	1048.47	1047.72	1047.15	1046.92	1047.43	1048.42	1049.62	1051.14	1052.68	1054.05	1055.29	1056.35	1057.05	1057.49	1057.82	1058.04	1058.14	1058.15	1058.17	1058.21	1058.19	1057.92	1057.61	1057.31	1057.01	1056.58	1055.96
1050.19	1049.34	1048.51	1047.77	1047.19	1046.96	1047.47	1048.46	1049.66	1051.18	1052.72	1054.09	1055.34	1056.39	1057.09	1057.53	1057.87	1058.08	1058.18	1058.20	1058.21	1058.25	1058.24	1058.20	1058.19	1057.96	1057.65	1057.35	1057.05	1056.62	1056.01

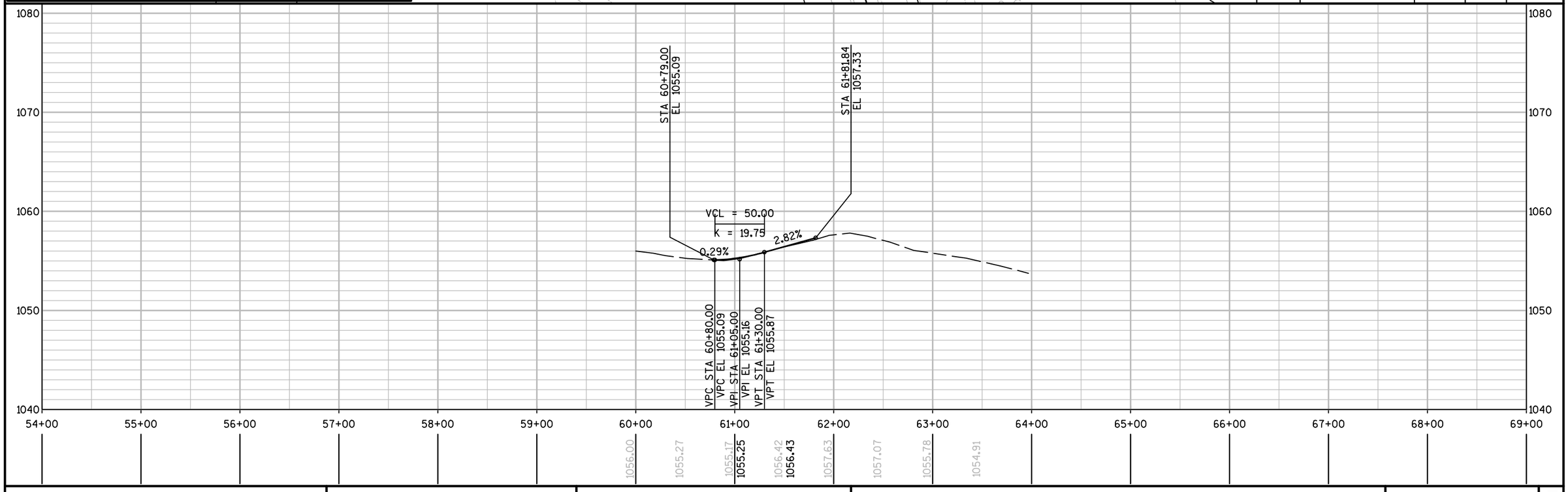
PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	PLAN & PROFILE: STH 35 AT CTH E	SHEET 70	E

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
1000	468+82.43	13.46 RT	383331.48	525081.57	1047.22
1001	470+10.36	24.00 RT	383421.98	525173.19	1049.15
1002	473+10.54	24.00 RT	383655.44	525362.33	1056.10
1003	473+20.12	24.00 RT	383662.81	525368.39	1056.28
1004	473+57.32	43.15 RT	383679.09	525406.72	1055.61
1005	473+62.97	84.42 RT	383656.95	525441.99	1054.94
1006	474+02.50	64.32 RT	383699.76	525451.72	1055.62
1007	474+24.81	35.09 RT	383735.54	525443.76	1056.52
1008	474+59.93	24.00 RT	383769.27	525458.11	1057.44
1009	475+59.13	12.00 RT	383851.46	525514.39	1057.95
1010	473+20.12	69.00 RT	383634.23	525403.15	0.00
1011	474+59.93	84.00 RT	383730.04	525503.51	0.00



CONTROL POINT TABLE			
POINT #	DESCRIPTION	NORTHING	EASTING
17	CP IR 3/8" BHA CAP	383726.88	525359.16
19	CP IR 3/8" BHA CAP	383858.06	525474.12

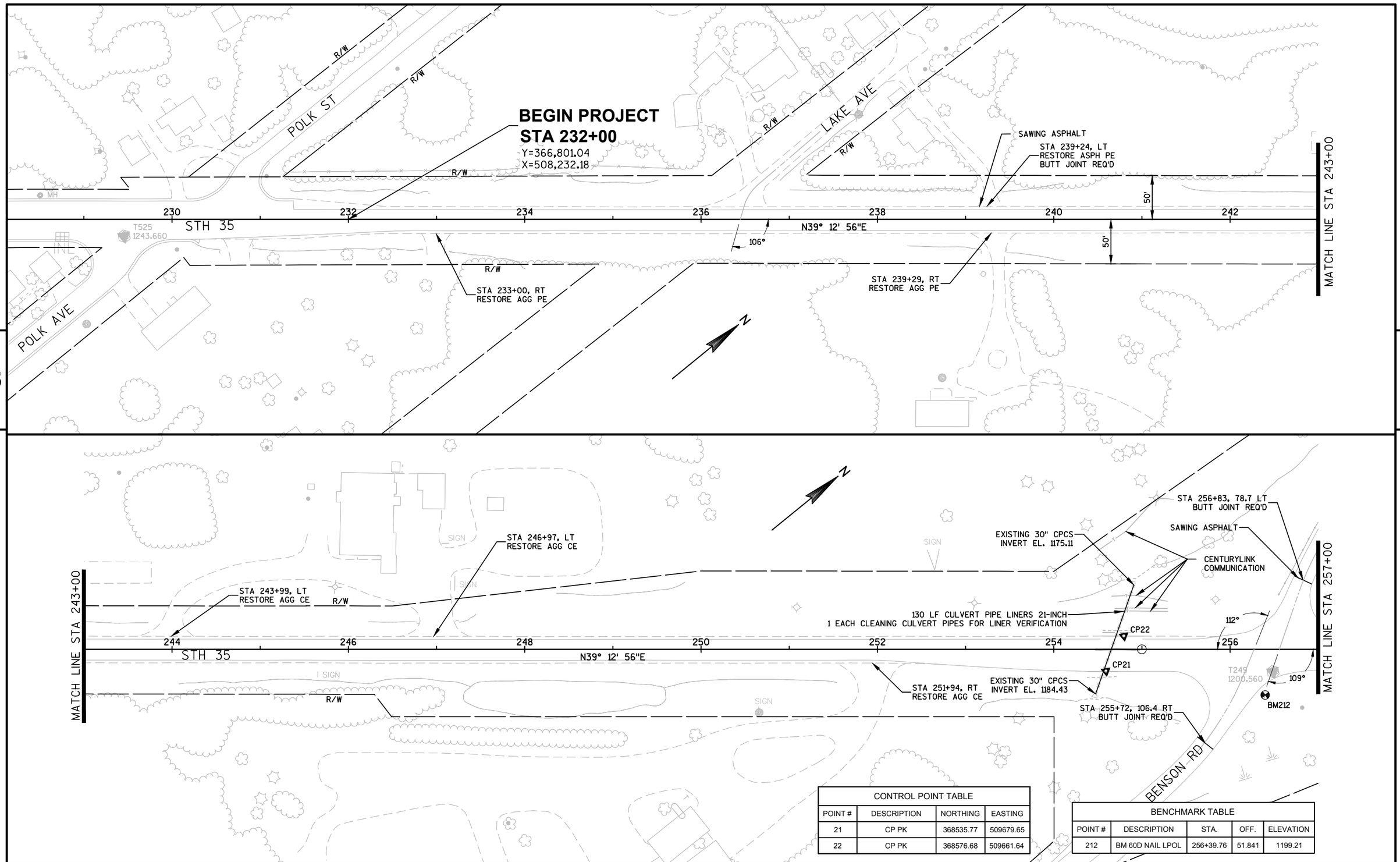
BENCHMARK TABLE				
POINT #	DESCRIPTION	STA.	OFF.	ELEVATION
208	BM 60D NAIL PPOL 96-266	472+28.21	48.747	1057.15
209	BM 60D NAIL PPOL 96-267	473+55.66	53.435	1053.67
210	BM 60D NAIL PPOL S-96	475+13.89	50.292	1057.03
211	BM 60D NAIL PPOL S-87	473+93.88	208.235	1056.66



PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	PLAN & PROFILE: CTH E	SHEET	E

FILE NAME : \\BHASERVER14\PROJECTS\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\050201_PP.DWG
LAYOUT NAME - 050417
PLOT DATE : 9/21/2017 11:06 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : PLOT SCALE : **********

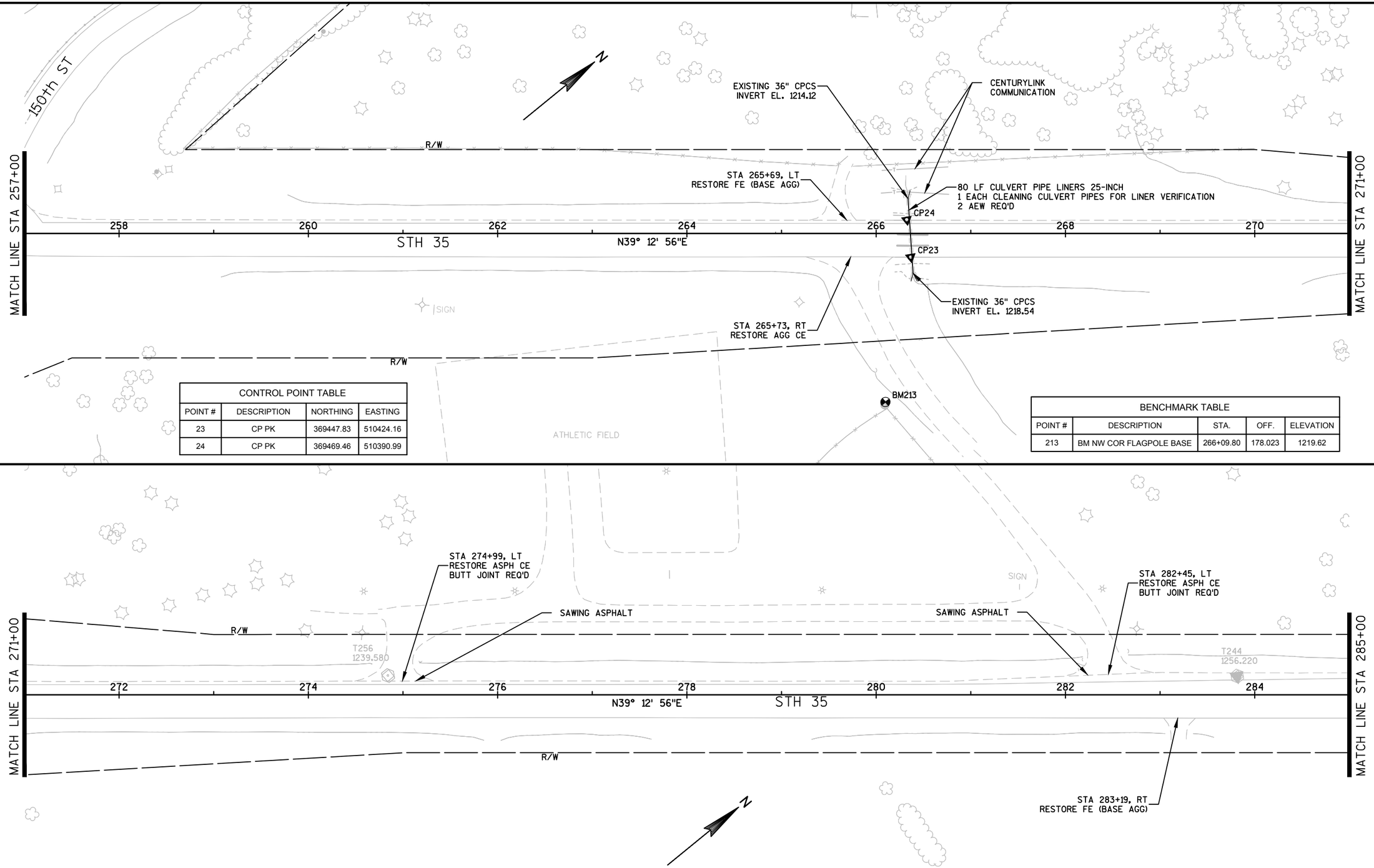
WISDOT/CADDS SHEET 44



CONTROL POINT TABLE			
POINT #	DESCRIPTION	NORTHING	EASTING
21	CP PK	368535.77	509679.65
22	CP PK	368576.68	509661.64

BENCHMARK TABLE				
POINT #	DESCRIPTION	STA.	OFF.	ELEVATION
212	BM 60D NAIL LPOL	256+39.76	51.841	1199.21

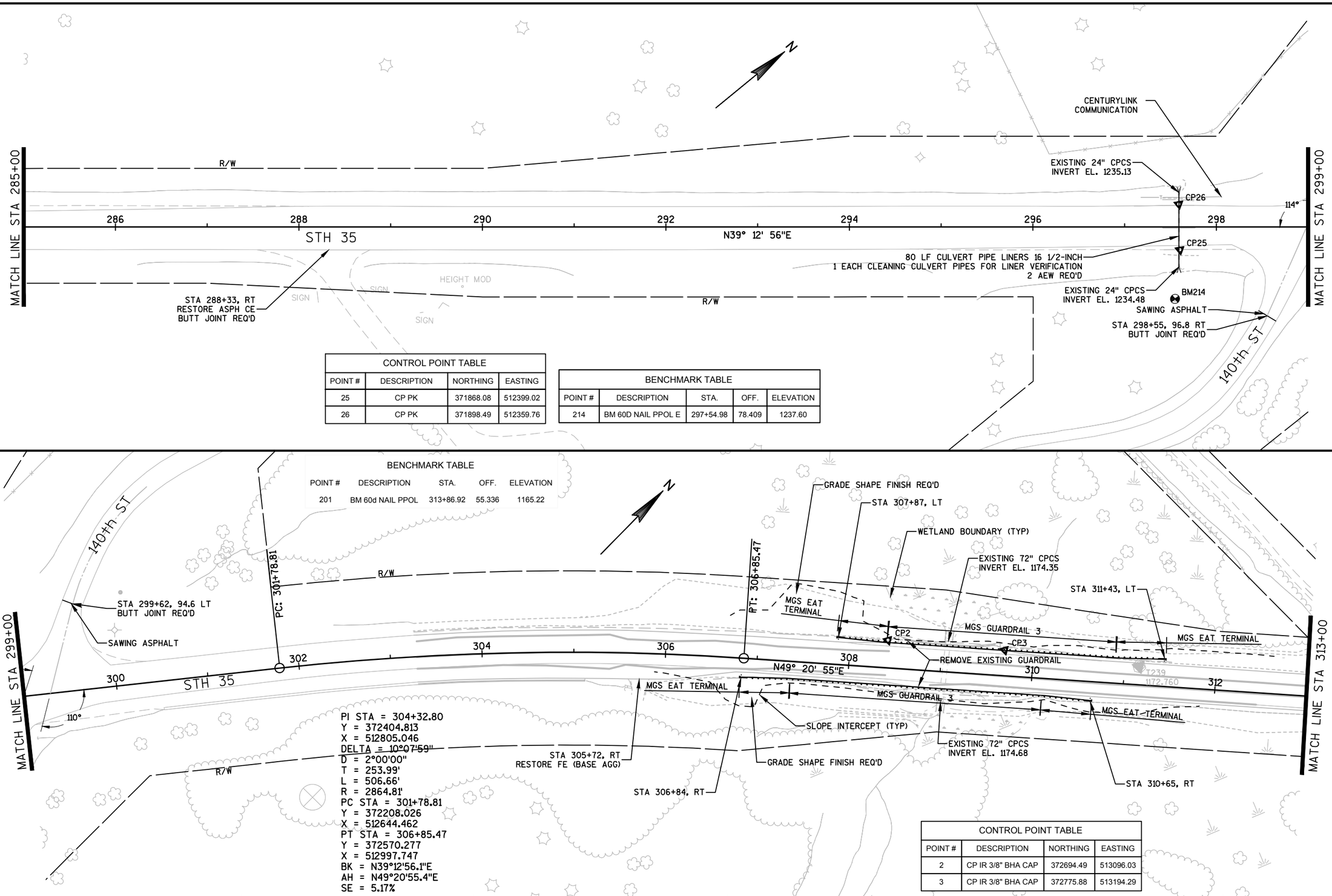
PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	LINE DIAGRAM: STH 35	SHEET 72	E



CONTROL POINT TABLE			
POINT #	DESCRIPTION	NORTHING	EASTING
23	CP PK	369447.83	510424.16
24	CP PK	369469.46	510390.99

BENCHMARK TABLE				
POINT #	DESCRIPTION	STA.	OFF.	ELEVATION
213	BM NW COR FLAGPOLE BASE	266+09.80	178.023	1219.62

PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	LINE DIAGRAM: STH 35	SHEET 73 E



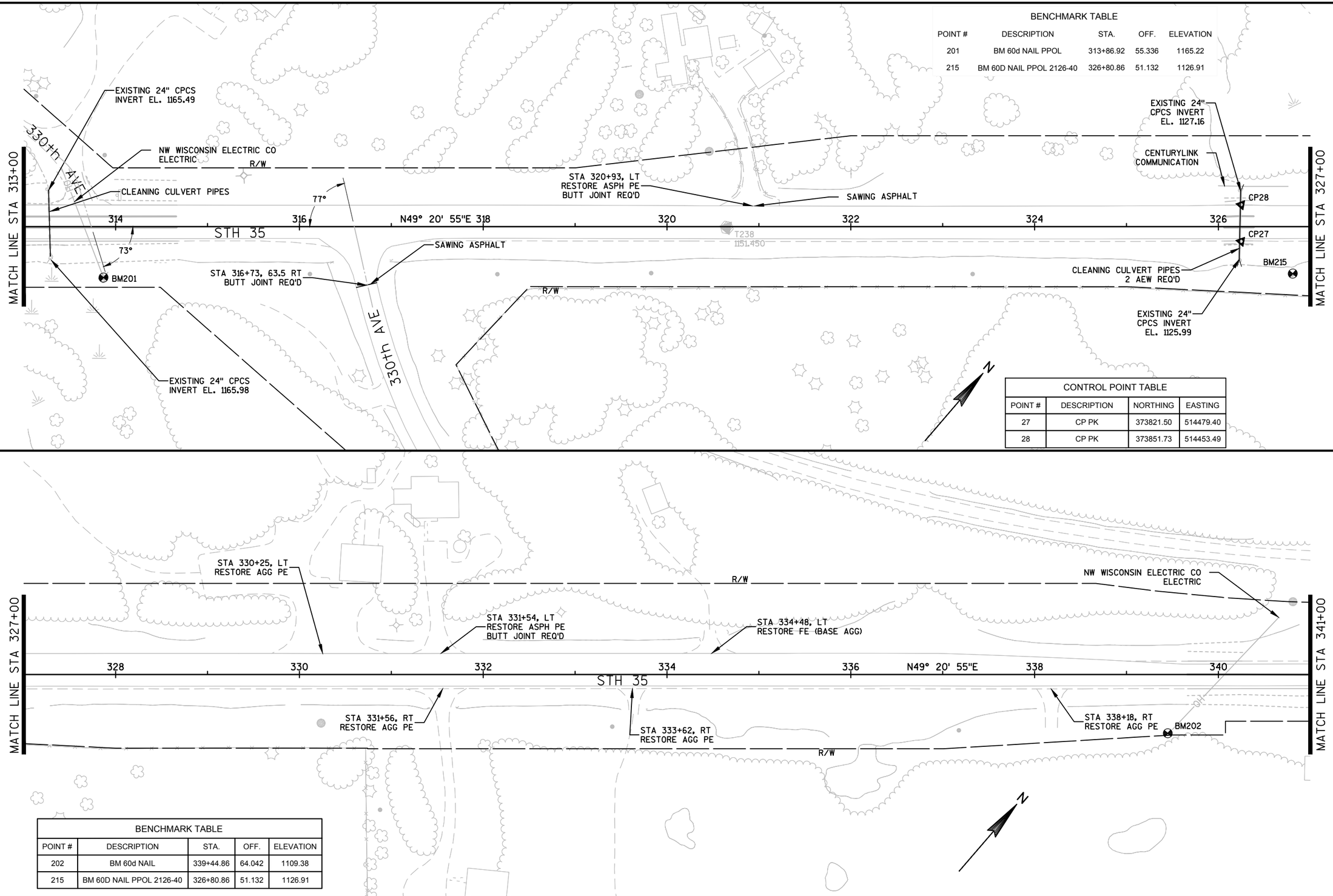
CONTROL POINT TABLE			
POINT #	DESCRIPTION	NORTHING	EASTING
25	CP PK	371868.08	512399.02
26	CP PK	371898.49	512359.76

BENCHMARK TABLE				
POINT #	DESCRIPTION	STA.	OFF.	ELEVATION
214	BM 60D NAIL PPOL E	297+54.98	78.409	1237.60

CONTROL POINT TABLE			
POINT #	DESCRIPTION	NORTHING	EASTING
2	CP IR 3/8" BHA CAP	372694.49	513096.03
3	CP IR 3/8" BHA CAP	372775.88	513194.29

PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	LINE DIAGRAM: STH 35	SHEET 74	E

FILE NAME : \\BHASERVER14\PROJECTS\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\050401_LD.DWG
LAYOUT NAME - 050405
PLOT DATE : 9/22/2017 8:20 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : PLOT SCALE : 1 IN:100 FT



BENCHMARK TABLE

POINT #	DESCRIPTION	STA.	OFF.	ELEVATION
201	BM 60d NAIL PPOL	313+86.92	55.336	1165.22
215	BM 60D NAIL PPOL 2126-40	326+80.86	51.132	1126.91

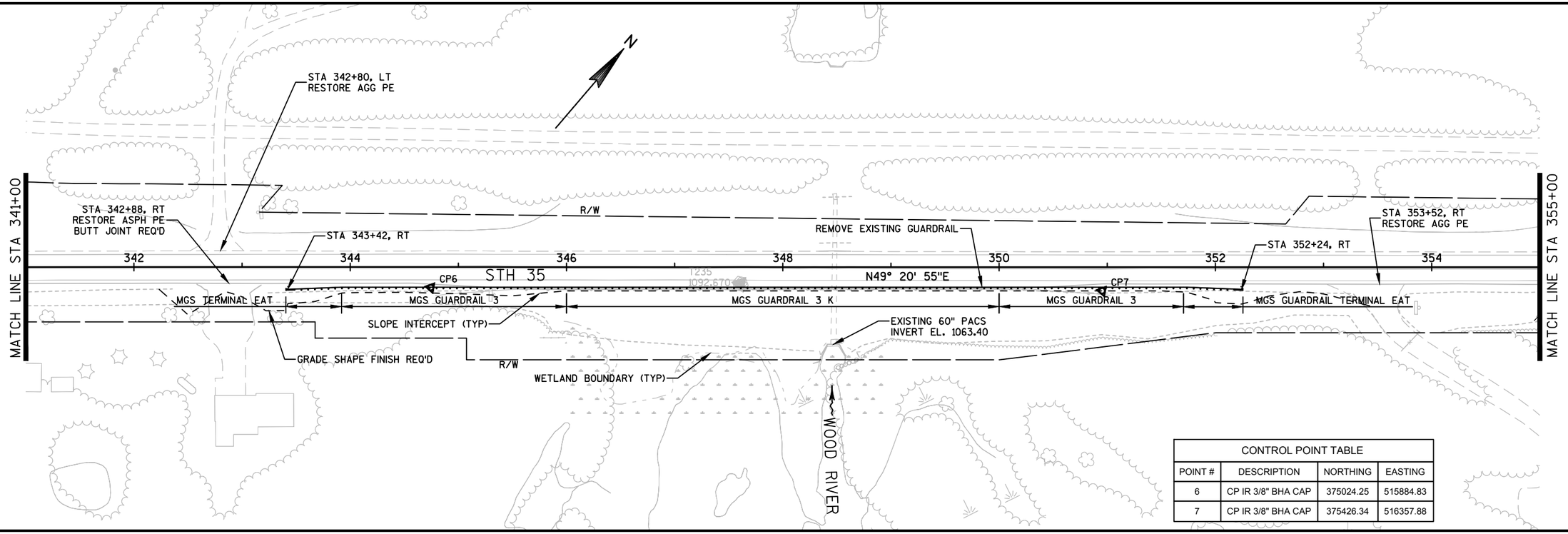
CONTROL POINT TABLE

POINT #	DESCRIPTION	NORTHING	EASTING
27	CP PK	373821.50	514479.40
28	CP PK	373851.73	514453.49

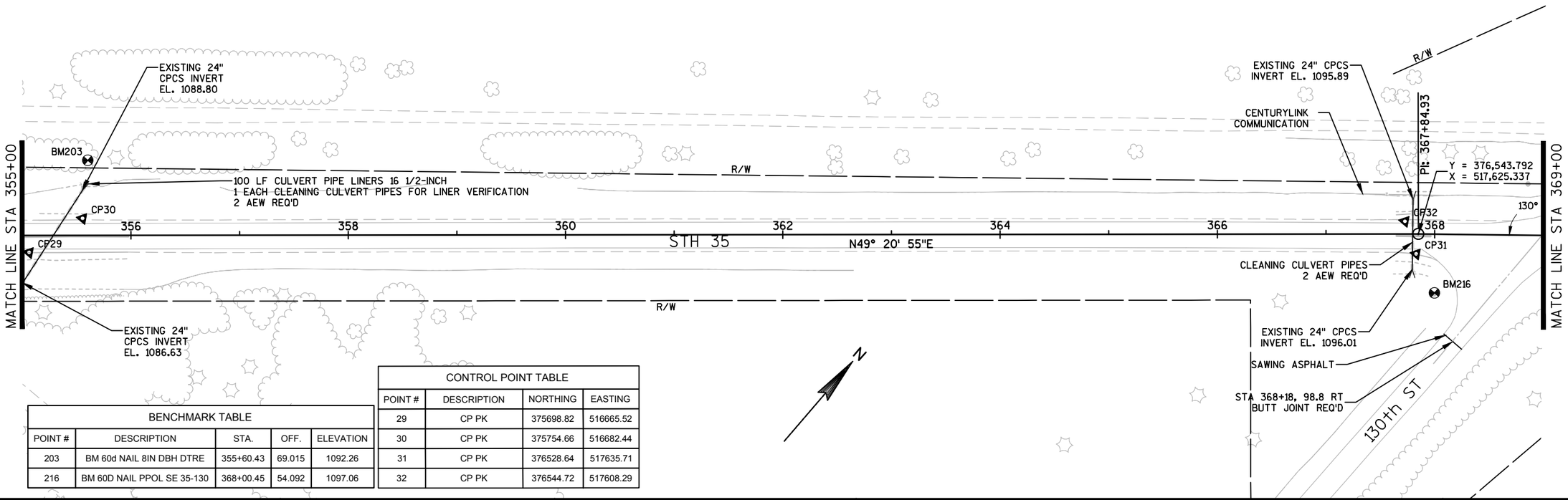
BENCHMARK TABLE

POINT #	DESCRIPTION	STA.	OFF.	ELEVATION
202	BM 60d NAIL	339+44.86	64.042	1109.38
215	BM 60D NAIL PPOL 2126-40	326+80.86	51.132	1126.91

PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	LINE DIAGRAM: STH 35	SHEET 75	E



CONTROL POINT TABLE			
POINT #	DESCRIPTION	NORTHING	EASTING
6	CP IR 3/8" BHA CAP	375024.25	515884.83
7	CP IR 3/8" BHA CAP	375426.34	516357.88

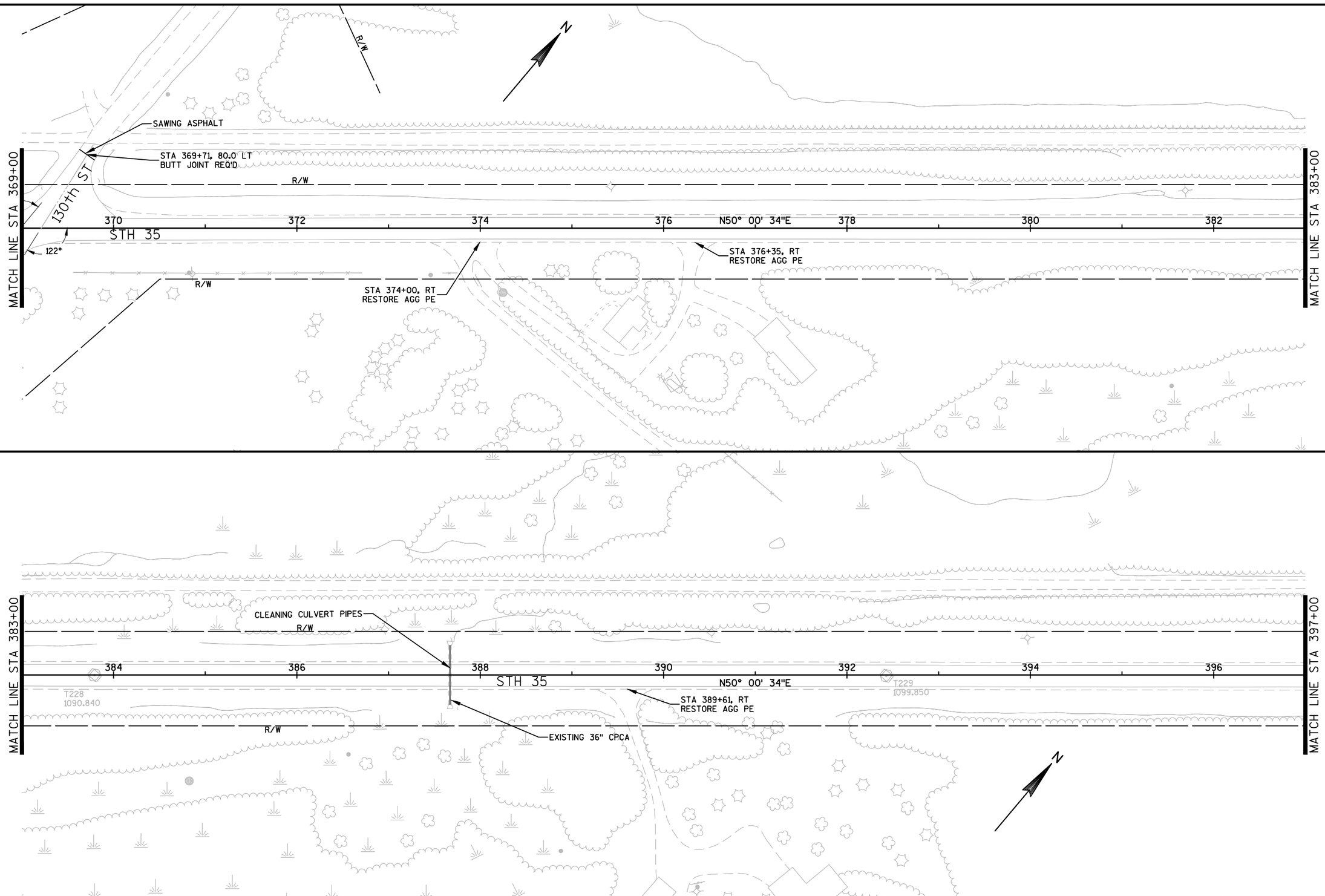


BENCHMARK TABLE				
POINT #	DESCRIPTION	STA.	OFF.	ELEVATION
203	BM 60d NAIL 8IN DBH DTRE	355+60.43	69.015	1092.26
216	BM 60D NAIL PPOL SE 35-130	368+00.45	54.092	1097.06

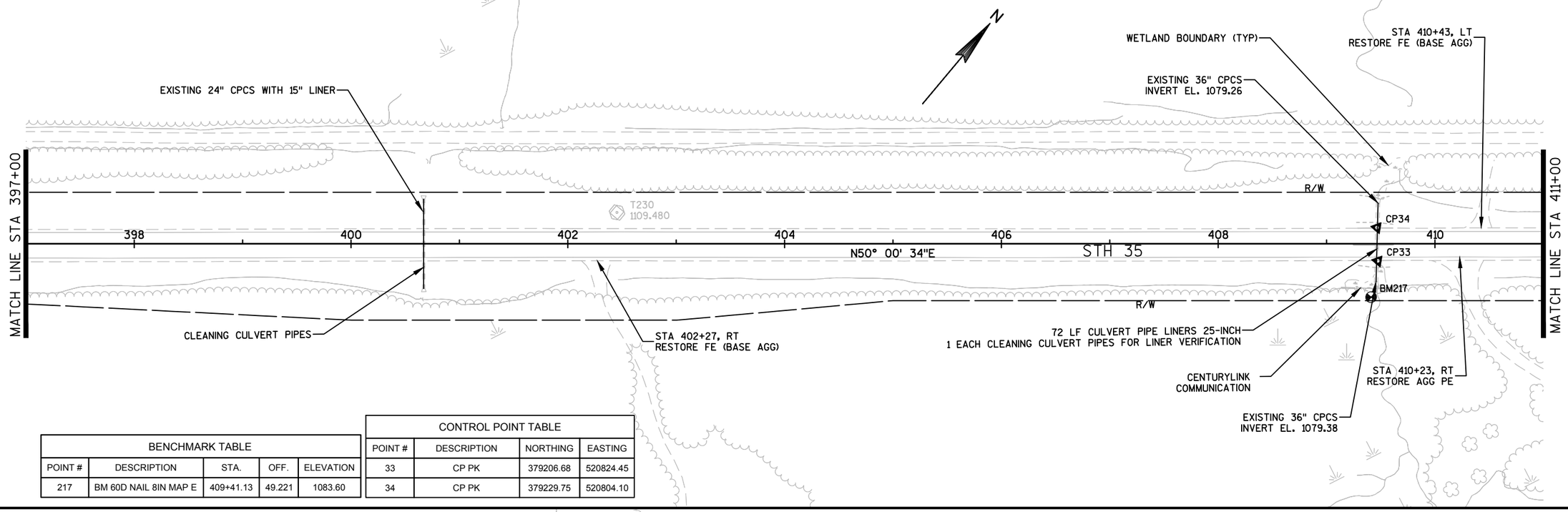
CONTROL POINT TABLE			
POINT #	DESCRIPTION	NORTHING	EASTING
29	CP PK	375698.82	516665.52
30	CP PK	375754.66	516682.44
31	CP PK	376528.64	517635.71
32	CP PK	376544.72	517608.29

PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	LINE DIAGRAM: STH 35	SHEET 76 E

FILE NAME : \\BHASERVER14\PROJECTS\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\050401_LD.DWG
LAYOUT NAME - 050409
PLOT DATE : 9/22/2017 8:22 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : PLOT SCALE : 1 IN:100 FT

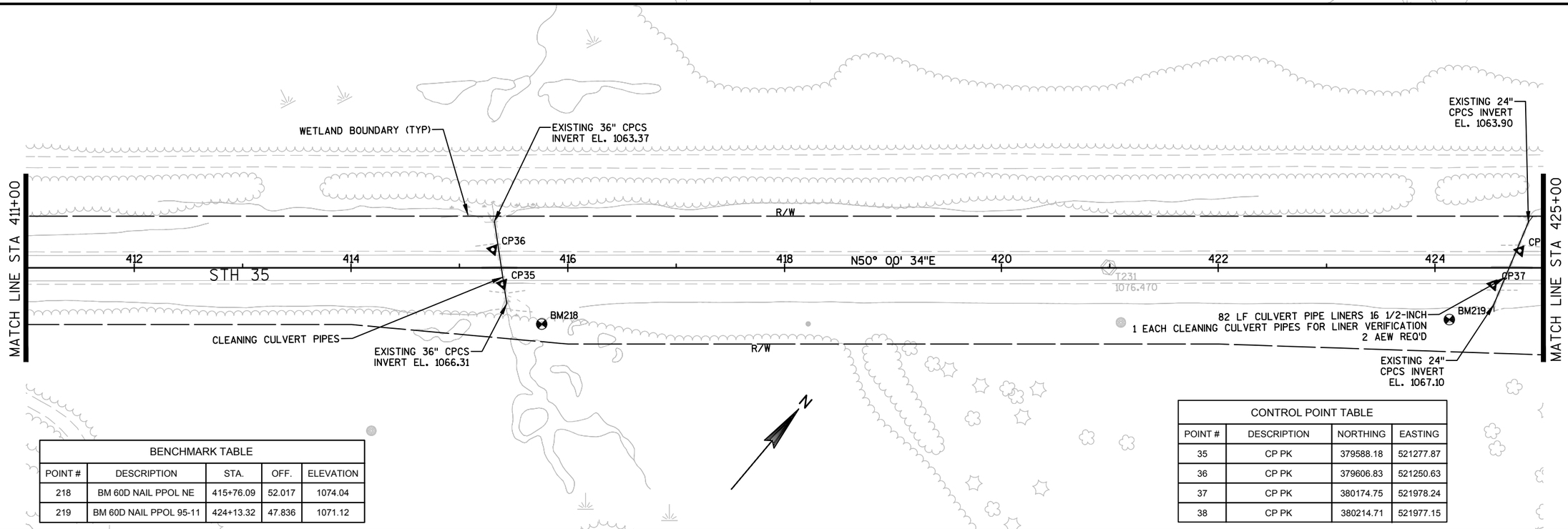


PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	LINE DIAGRAM: STH 35	SHEET 77	E



BENCHMARK TABLE				
POINT #	DESCRIPTION	STA.	OFF.	ELEVATION
217	BM 60D NAIL 8IN MAP E	409+41.13	49.221	1083.60

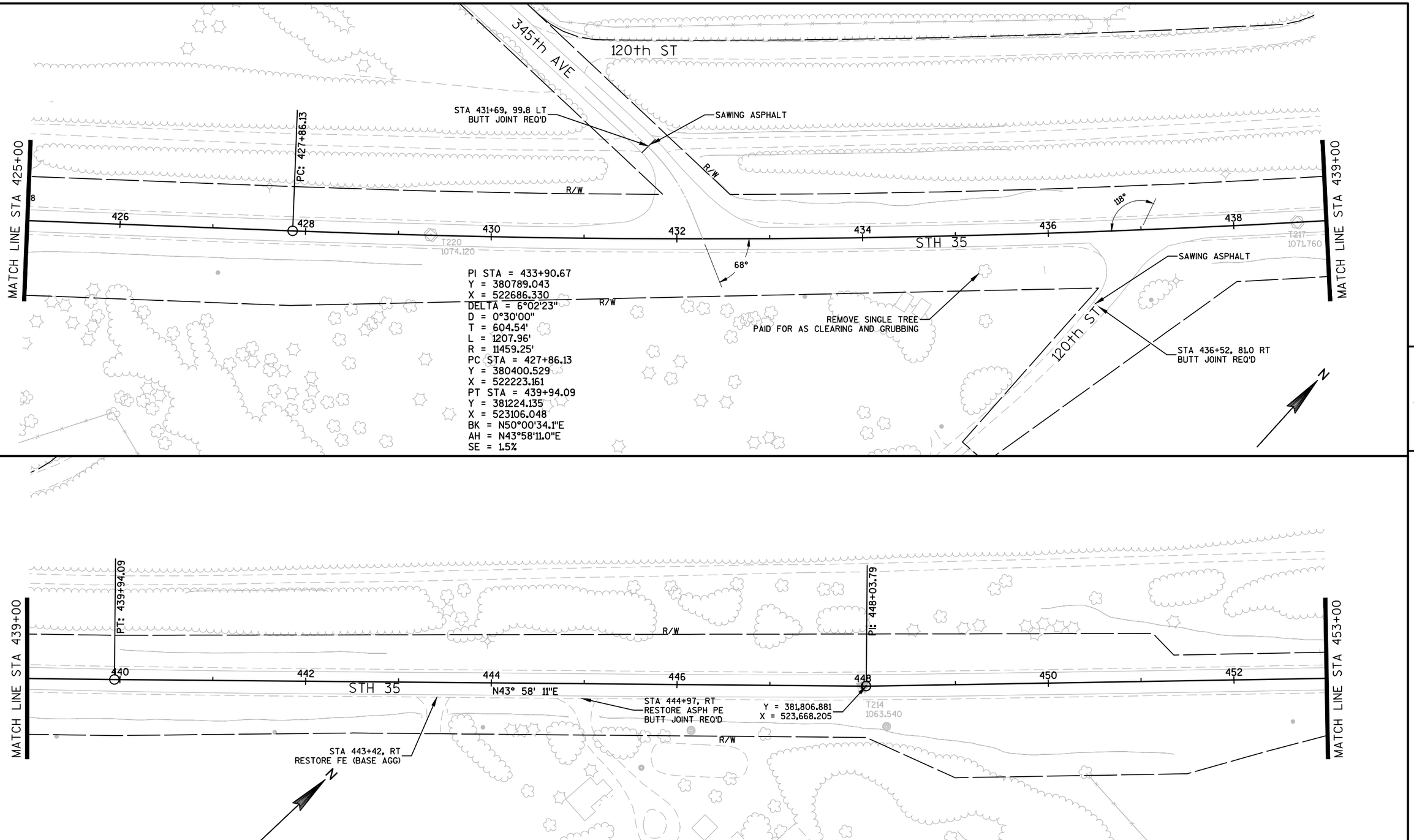
CONTROL POINT TABLE			
POINT #	DESCRIPTION	NORTHING	EASTING
33	CP PK	379206.68	520824.45
34	CP PK	379229.75	520804.10



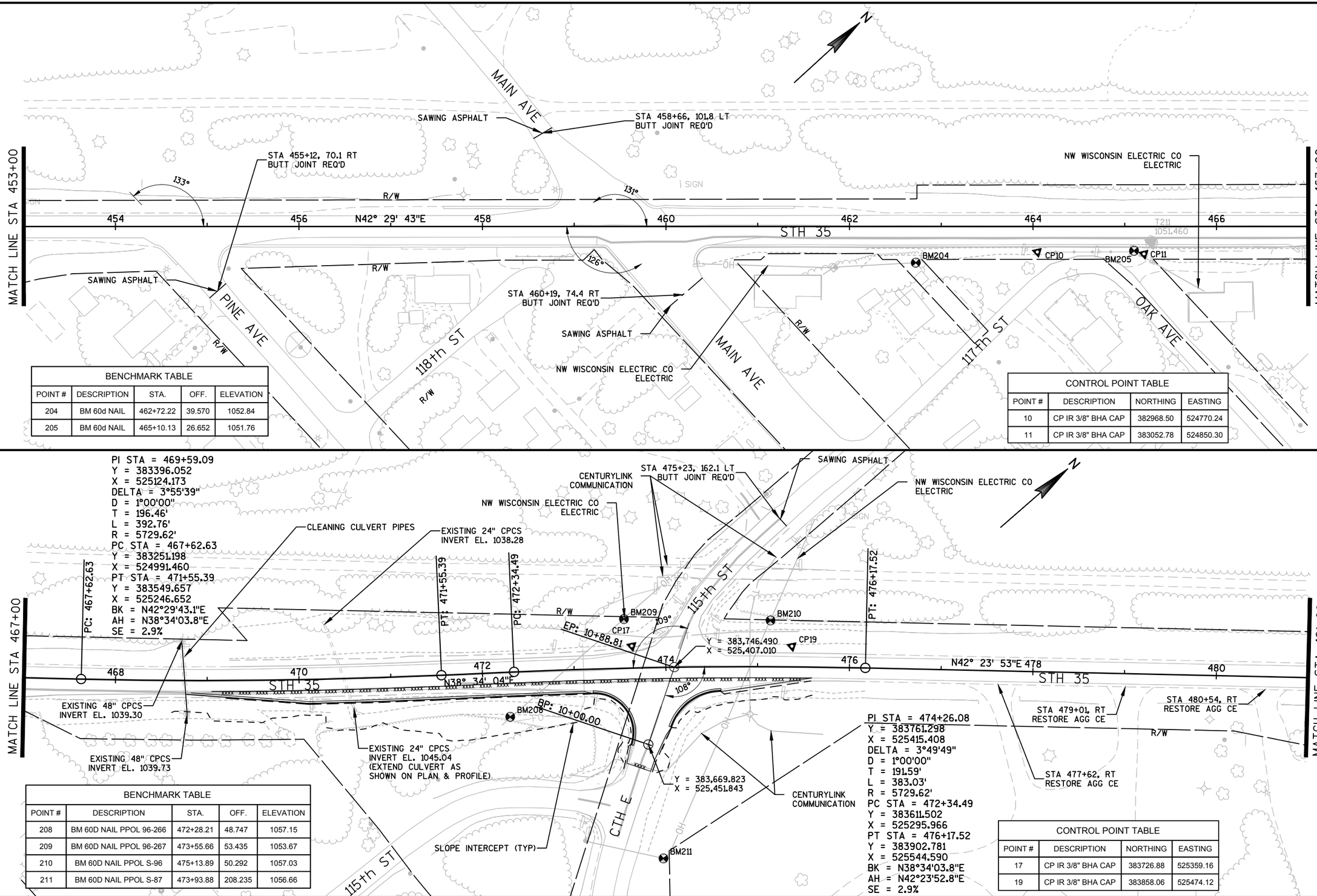
BENCHMARK TABLE				
POINT #	DESCRIPTION	STA.	OFF.	ELEVATION
218	BM 60D NAIL PPOL NE	415+76.09	52.017	1074.04
219	BM 60D NAIL PPOL 95-11	424+13.32	47.836	1071.12

CONTROL POINT TABLE			
POINT #	DESCRIPTION	NORTHING	EASTING
35	CP PK	379588.18	521277.87
36	CP PK	379606.83	521250.63
37	CP PK	380174.75	521978.24
38	CP PK	380214.71	521977.15

PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	LINE DIAGRAM: STH 35	SHEET 78	E



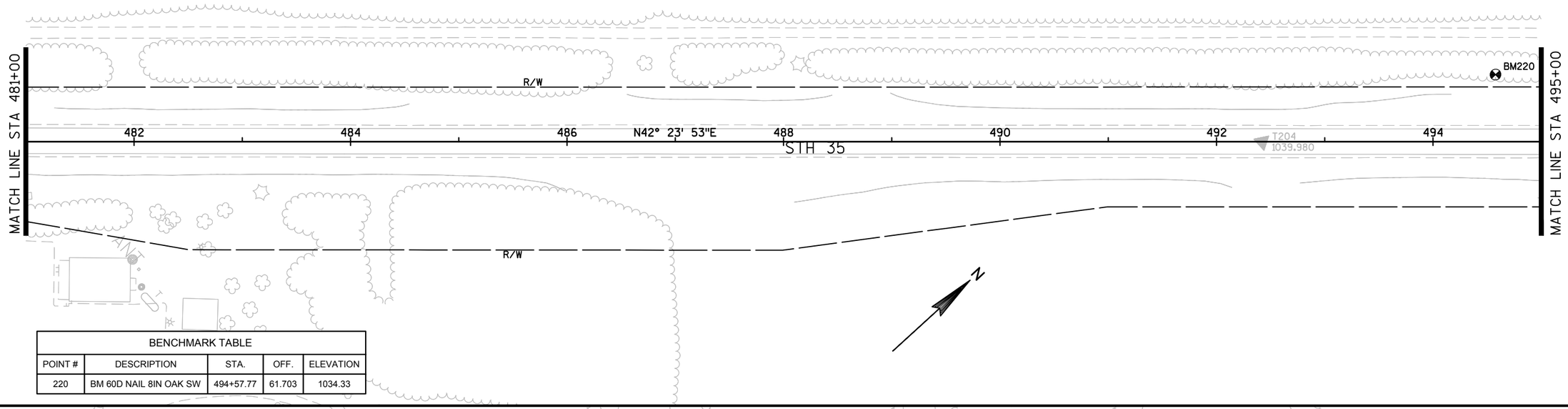
PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	LINE DIAGRAM: STH 35	SHEET 79	E



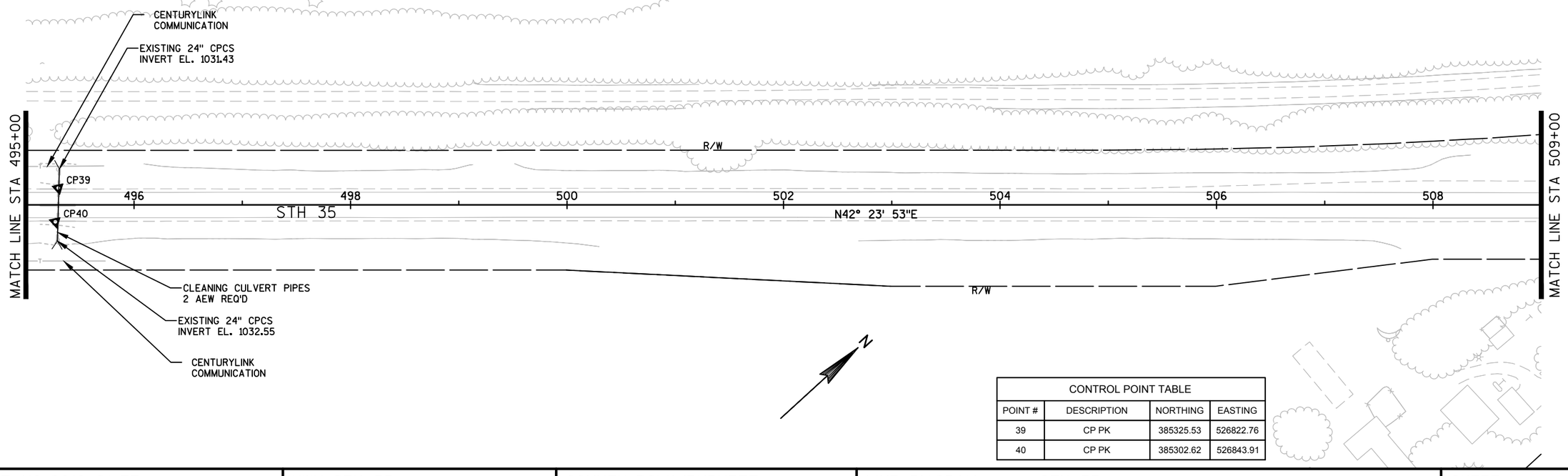
PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	LINE DIAGRAM: STH 35	SHEET 80	E

FILE NAME : \\BHASERVER14\PROJECTS\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\050401_LD.DWG
LAYOUT NAME - 050417
PLOT DATE : 9/22/2017 8:25 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



BENCHMARK TABLE				
POINT #	DESCRIPTION	STA.	OFF.	ELEVATION
220	BM 60D NAIL 8IN OAK SW	494+57.77	61.703	1034.33



CONTROL POINT TABLE			
POINT #	DESCRIPTION	NORTHING	EASTING
39	CP PK	385325.53	526822.76
40	CP PK	385302.62	526843.91

PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	LINE DIAGRAM: STH 35	SHEET 81	E

FILE NAME : \\BHASERVER14\PROJECTS\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\050401_LD.DWG
LAYOUT NAME - 050419
PLOT DATE : 9/22/2017 8:26 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : PLOT SCALE : 1 IN:100 FT

PI STA = 514+88.04
Y = 386761.078
X = 528154.392
DELTA = 19°19'44"
D = 2°00'00"
T = 487.86'
L = 966.45'
R = 2864.81'
PC STA = 510+00.18
Y = 386400.804
X = 527825.439
PT STA = 519+66.63
Y = 387209.926
X = 528345.557
BK = N42°23'52.8"E
AH = N23°04'08.9"E
SE = 5.1%

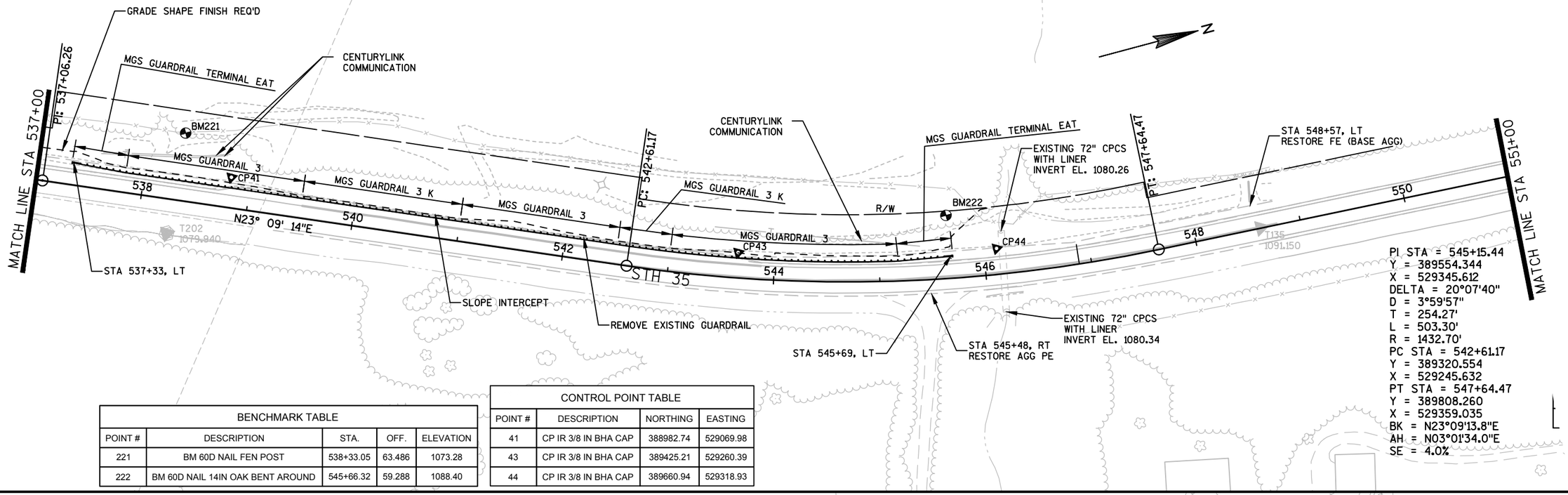
MATCH LINE STA 509+00
PC: 510+00.18
R/W
109°
510
512
514
516
518
520
522
PT: 519+66.63
MATCH LINE STA 523+00
STH 35
N23° 04' 09"E
SAWING ASPHALT
STA 510+96, 80.0 RT
BUTT JOINT REQ'D
110th ST
STA 516+74, LT
RESTORE FE (BASE AGG)
STA 514+41, RT
RESTORE AGG PE
STA 519+81, RT
WETLAND BOUNDARY (TYP)
CENTURYLINK
COMMUNICATION
SLOPE INTERCEPT
BM206
T103
1019.950
MGS GUARDRAIL 3
MGS GUARDRAIL TERMINAL EAT
GRADE SHAPE FINISH REQ'D
NW WISCONSIN ELECTRIC CO
ELECTRIC
N

BENCHMARK TABLE				
POINT #	DESCRIPTION	STA.	OFF.	ELEVATION
206	BM 60D NAIL XYZIN OAK	520+83.56	58.861	1013.94

EXISTING 24" CPCS
INVERT EL. 1009.03
60 LF CULVERT PIPE LINERS 16 1/2-INCH
1 EACH CLEANING CULVERT PIPES FOR LINER VERIFICATION
2 MARKERS CULVERT END
CENTURYLINK
COMMUNICATION
Y = 388,344.667
X = 528,828.842
PI: 532+00.00
PI: 533+76.80
Y = 388,507.142
X = 528,898.564
MATCH LINE STA 523+00
MATCH LINE STA 537+00
R/W
STA 531+62, RT
REMOVE EXISTING GUARDRAIL
524
526
528
530
532
534
536
STH 35
N23° 13' 31"E
MGS GUARDRAIL 3
MGS GUARDRAIL TERMINAL EAT
BM207
R/W
SLOPE INTERCEPT
CLEAN EXISTING INVERT
WETLAND BOUNDARY (TYP)
NW WISCONSIN ELECTRIC CO
ELECTRIC
GRADE SHAPE FINISH REQ'D
STA 536+63, RT
RESTORE AGG PE
N

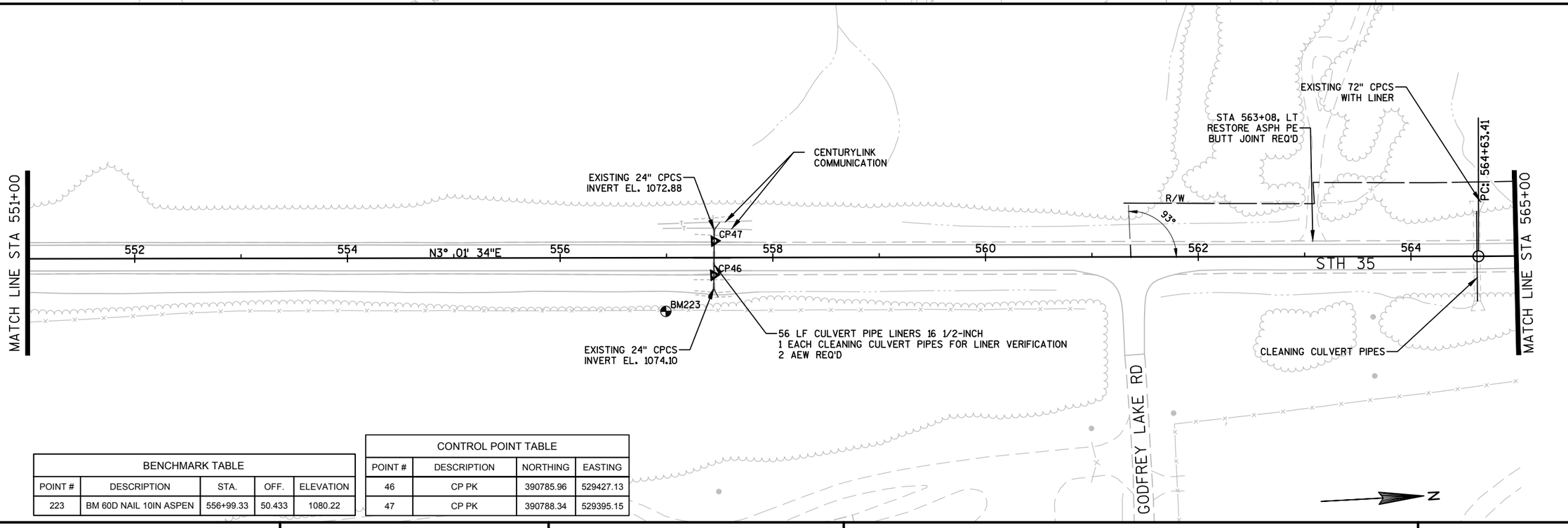
BENCHMARK TABLE				
POINT #	DESCRIPTION	STA.	OFF.	ELEVATION
207	BM 60D NAIL WHITE PINE	528+59.31	80.757	1012.37

PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	LINE DIAGRAM: STH 35	SHEET 82	E



BENCHMARK TABLE				
POINT #	DESCRIPTION	STA.	OFF.	ELEVATION
221	BM 60D NAIL FEN POST	538+33.05	63.486	1073.28
222	BM 60D NAIL 14IN OAK BENT AROUND	545+66.32	59.288	1088.40

CONTROL POINT TABLE			
POINT #	DESCRIPTION	NORTHING	EASTING
41	CP IR 3/8 IN BHA CAP	388982.74	529069.98
43	CP IR 3/8 IN BHA CAP	389425.21	529260.39
44	CP IR 3/8 IN BHA CAP	389660.94	529318.93



BENCHMARK TABLE				
POINT #	DESCRIPTION	STA.	OFF.	ELEVATION
223	BM 60D NAIL 10IN ASPEN	556+99.33	50.433	1080.22

CONTROL POINT TABLE			
POINT #	DESCRIPTION	NORTHING	EASTING
46	CP PK	390785.96	529427.13
47	CP PK	390788.34	529395.15

PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	LINE DIAGRAM: STH 35	SHEET 83	E

PI STA = 567+11.66
Y = 391752.734
X = 529461.829
DELTA = 9°54'17"
D = 2°00'00"
T = 248.24'
L = 495.25'
R = 2864.90'
PC STA = 564+63.41
Y = 391504.837
X = 529448.724
PT STA = 569+58.66
Y = 391999.192
X = 529432.099
BK = N03°01'34.0"E
AH = N06°52'42.7"W

WISCONSIN STATE WAYSIDE

MATCH LINE STA 565+00

PT: 569+58.66

SAWING ASPHALT

STA 570+20, LT
RESTORE ASPH CE
BUTT JOINT REQ'D

R/W

PC: 576+67.17

MATCH LINE STA 579+00

566 568 570 572 574 576 578

N6° 52' 43"W

T133
1075.716

T127
1073.910

STH 35

STA 565+69, LT
RESTORE FE (BASE AGG)

STA 565+78, RT
RESTORE AGG CE

STA 570+87, RT
RESTORE AGG CE

STA 578+23, RT
RESTORE AGG CE

PI STA = 578+30.42
Y = 392864.677
X = 529327.692
DELTA = 6°31'22"
D = 2°00'00"
T = 163.25'
L = 326.15'
R = 2864.90'
PC STA = 576+67.17
Y = 392702.600
X = 529347.244
PT STA = 579+93.32
Y = 393027.926
X = 529326.679
BK = N06°52'42.7"W
AH = N00°21'20.7"W
SE = 2.0%

N

CONTROL POINT TABLE			
POINT #	DESCRIPTION	NORTHING	EASTING
61	CP IR 3/8IN BHA CAP	393565.07	529300.65
62	CP IR 3/8IN BHA CAP	393934.04	529298.00

BENCHMARK TABLE				
POINT #	DESCRIPTION	STA.	OFF.	ELEVATION
225	BM 60D NAIL 20IN WP	585+06.36	67.453	1030.41
226	BM 60D NAIL PPOL 2151-20	588+33.11	50.944	999.16

MATCH LINE STA 579+00

PT: 579+93.32

STH 35

580 582 584 586 588 590 592

N0° 21' 21"W

Y = 393,794.690
X = 529,321.918

ELBOW LAKE RD

R/W

GRADE SHAPE FINISH REQ'D

WETLAND BOUNDARY (TYP)

NW WISCONSIN ELECTRIC CO
ELECTRIC

SIREN TELEPHONE CO
COMMUNICATION

SLOPE INTERCEPT (TYP)

CENTURYLINK
COMMUNICATION

EXISTING 72" CPCS
WITH LINER
INVERT EL. 1000.66

PI: 587+60.10

SAWING ASPHALT

EXISTING 24" CPRC
INVERT EL. 995.46

STA 590+19, 66.7 LT
BUTT JOINT REQ'D

CLEANING CULVERT PIPES

STA 583+82, LT

BM225

MGS GUARDRAIL TERMINAL EAT

MGS GUARDRAIL 3

CP61

CP62

MGS GUARDRAIL TERMINAL EAT

STA 589+89, LT

MGS GUARDRAIL TERMINAL EAT

MGS GUARDRAIL 3

MGS GUARDRAIL 3 K

MGS GUARDRAIL 3

REMOVE EXISTING GUARDRAIL

120°

STA 582+80, RT

GRADE SHAPE FINISH REQ'D

BM226

R/W

MGS GUARDRAIL TERMINAL EAT

EXISTING 72" CPCS
WITH LINER
INVERT EL. 1000.05

NW WISCONSIN ELECTRIC CO
ELECTRIC

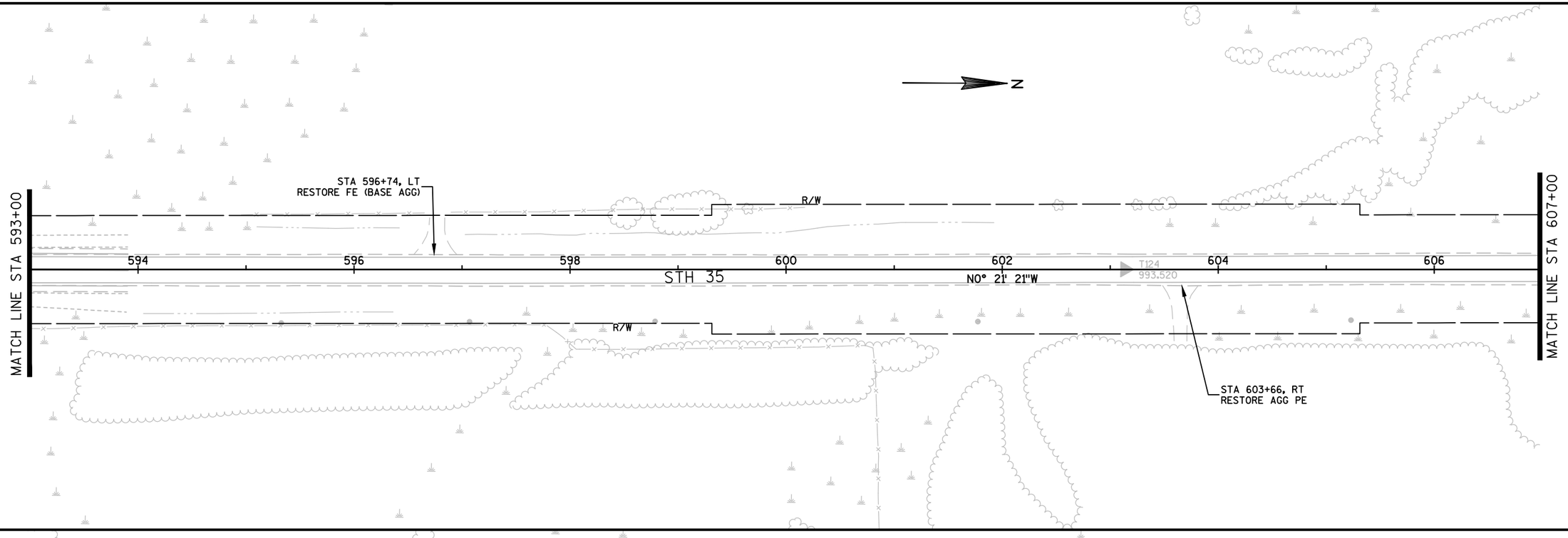
EXISTING 24" CPRC
INVERT EL. 995.18

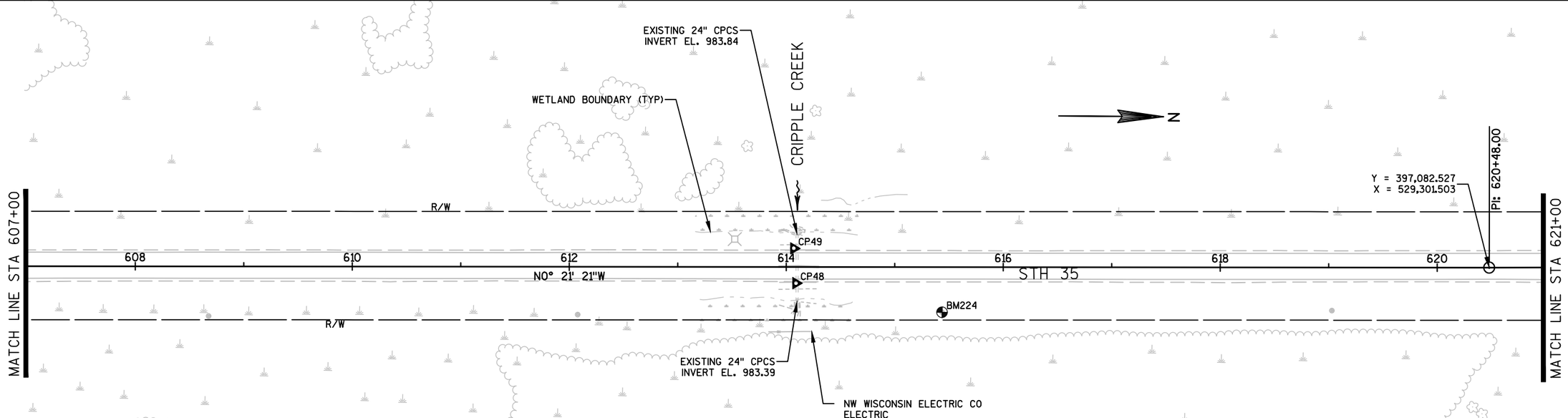
STA 589+72, RT
RESTORE FE (BASE AGG)

STA 589+39, RT

MATCH LINE STA 593+00

PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	LINE DIAGRAM: STH 35	SHEET 84	E

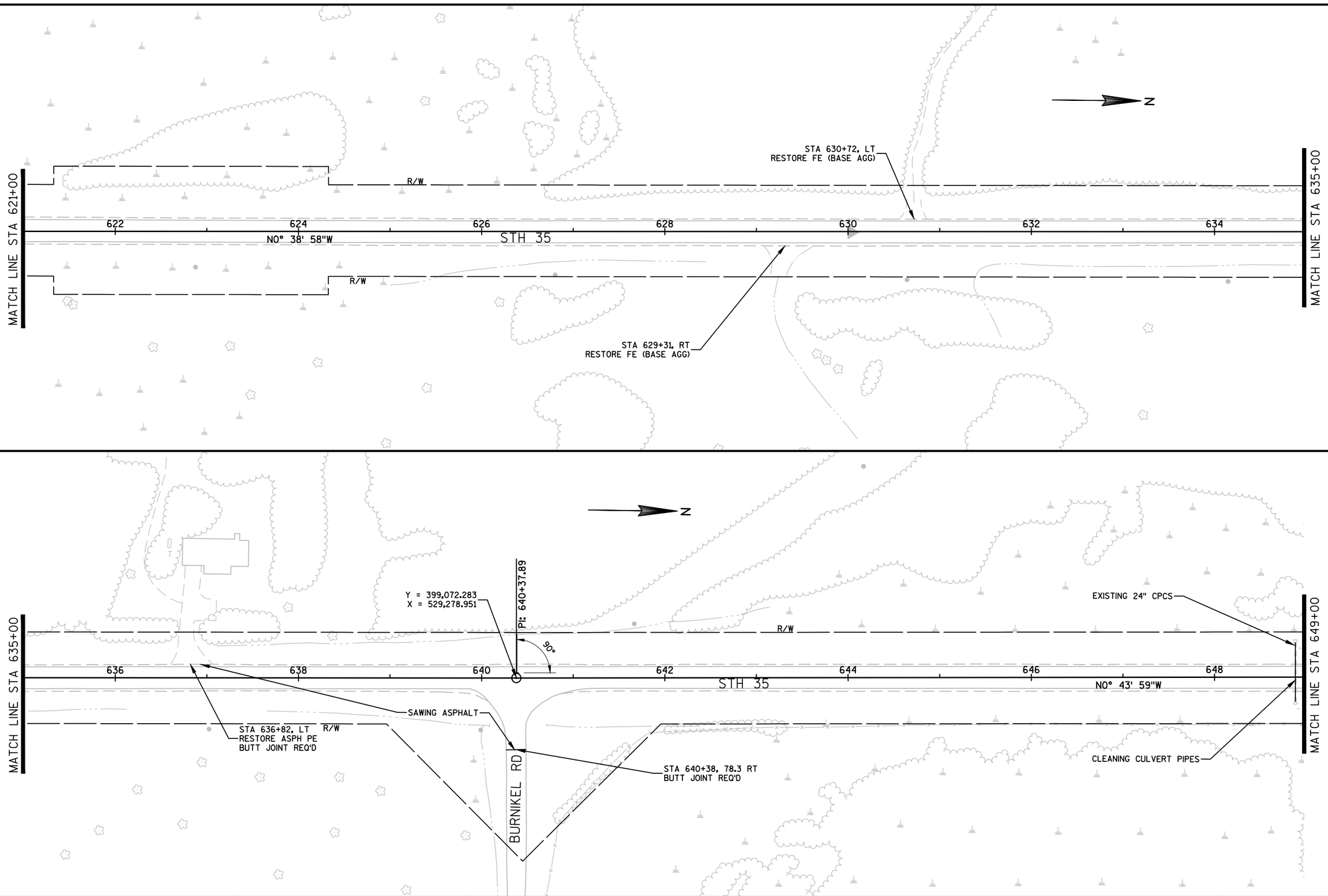




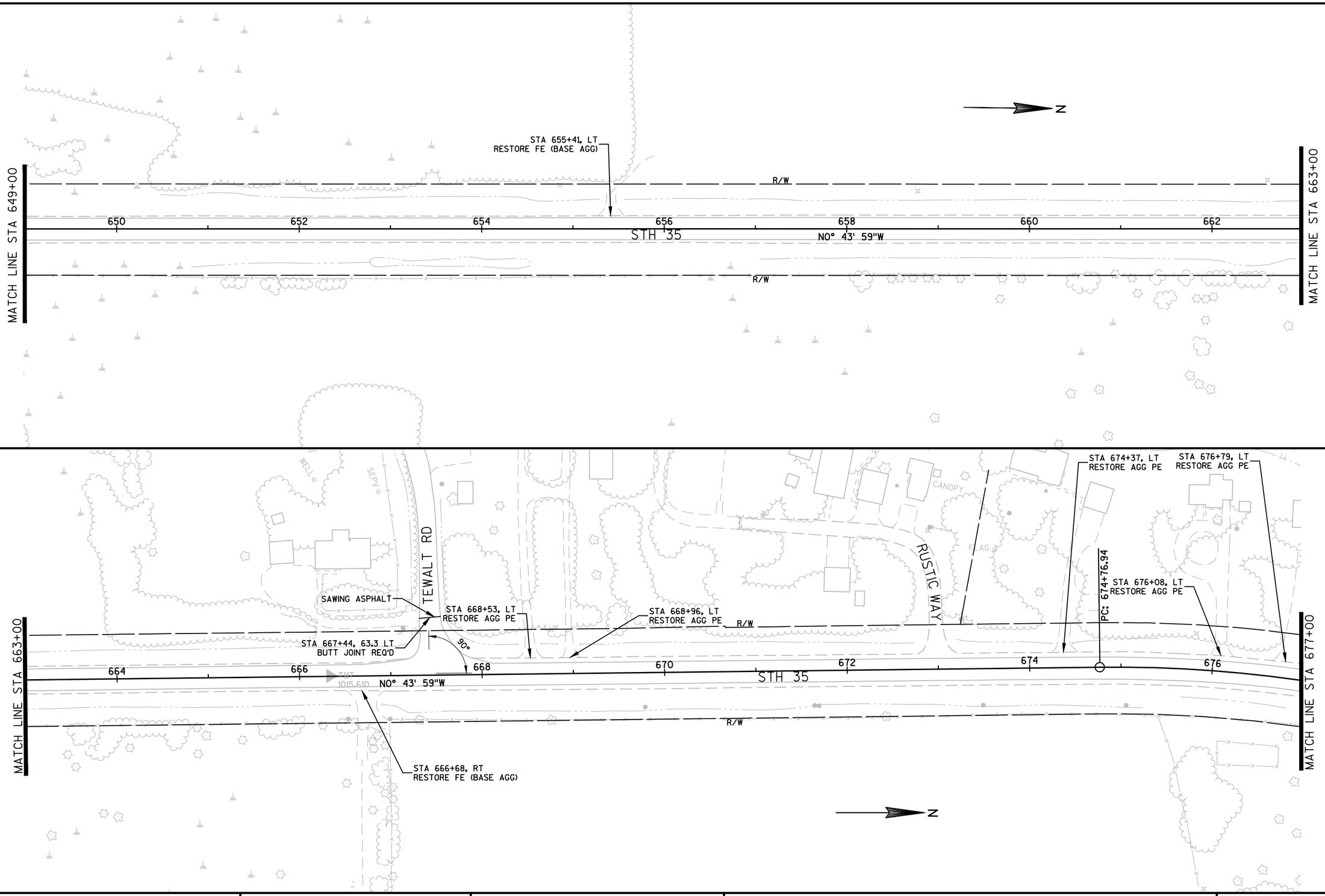
BENCHMARK TABLE				
POINT #	DESCRIPTION	STA.	OFF.	ELEVATION
224	BM 60D NAIL PPOL NE	615+43.48	41.711	985.02

CONTROL POINT TABLE			
POINT #	DESCRIPTION	NORTHING	EASTING
48	CP PK	396443.69	529320.37
49	CP PK	396441.46	529288.35

PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	LINE DIAGRAM: STH 35	SHEET 85	E



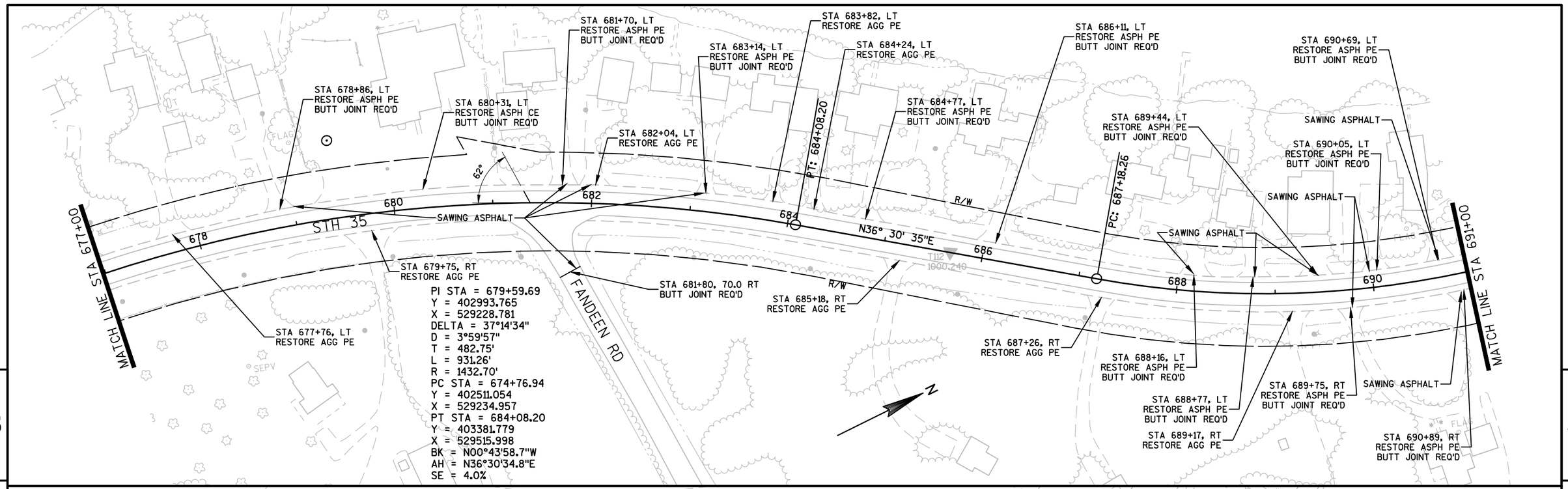
PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	LINE DIAGRAM: STH 35	SHEET 86	E



PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	LINE DIAGRAM: STH 35	SHEET 87 E

FILE NAME : \\BHASERVER14\PROJECTS\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\050401_LD.DWG
LAYOUT NAME - 050431

PLOT DATE : 9/22/2017 8:30 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : PLOT SCALE : 1 IN:100 FT



PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	LINE DIAGRAM: STH 35	SHEET 88	E

PI STA = 709+88.45
Y = 405717.616
X = 529247.208
DELTA = 27°30'59"
D = 3°59'57"
T = 350.80'
L = 688.06'
R = 1432.70'
PC STA = 706+37.66
Y = 405403.621
X = 529403.625
PT STA = 713+25.71
Y = 406068.357
X = 529253.552
BK = N26°28'48.7"W
AH = N01°02'10.8"E
SE = 4.0%

MATCH LINE STA 705+00

STA 705+95, RT
RESTORE AGG PE

STA 707+01, RT
RESTORE AGG PE

STA 708+70, LT
RESTORE AGG PE

SAWING ASPHALT

STA 708+92, RT
RESTORE ASPH PE
BUTT JOINT REQ'D

STA 710+38, 64.7 RT
BUTT JOINT REQ'D

SAWING ASPHALT

STA 710+40, LT
RESTORE AGG PE

SAWING ASPHALT

STA 711+69, RT
RESTORE AGG PE

STA 711+75, LT
RESTORE ASPH PE
BUTT JOINT REQ'D

STA 712+83, RT
RESTORE AGG PE

STA 713+67, 59.2 LT
BUTT JOINT REQ'D

STA 713+82, 43.6 RT
BUTT JOINT REQ'D

SAWING ASPHALT

STA 715+26, LT
RESTORE AGG PE

SAWING ASPHALT

STA 716+93, 43.5 LT
BUTT JOINT REQ'D

STA 717+38, RT
RESTORE AGG CE

STA 717+48, LT
RESTORE AGG CE

MATCH LINE STA 719+00

STA 719+42, LT
RESTORE AGG PE

STA 720+11, RT
RESTORE AGG PE

STA 720+39, LT
RESTORE AGG PE

STA 721+68, RT
RESTORE AGG PE

STA 722+10, LT
RESTORE AGG PE

STA 722+50, RT
RESTORE AGG PE

SAWING ASPHALT

STA 723+63, 46.8 RT
BUTT JOINT REQ'D

STA 724+88, LT
RESTORE ASPH CE
BUTT JOINT REQ'D

STA 726+38, LT
RESTORE ASPH CE
BUTT JOINT REQ'D

STA 727+31, LT
RESTORE AGG PE

STA 728+64, LT
RESTORE AGG PE

STA 729+43, LT
RESTORE AGG PE

STA 730+64, RT
RESTORE ASPH CE
BUTT JOINT REQ'D

STA 732+14, LT
RESTORE AGG PE

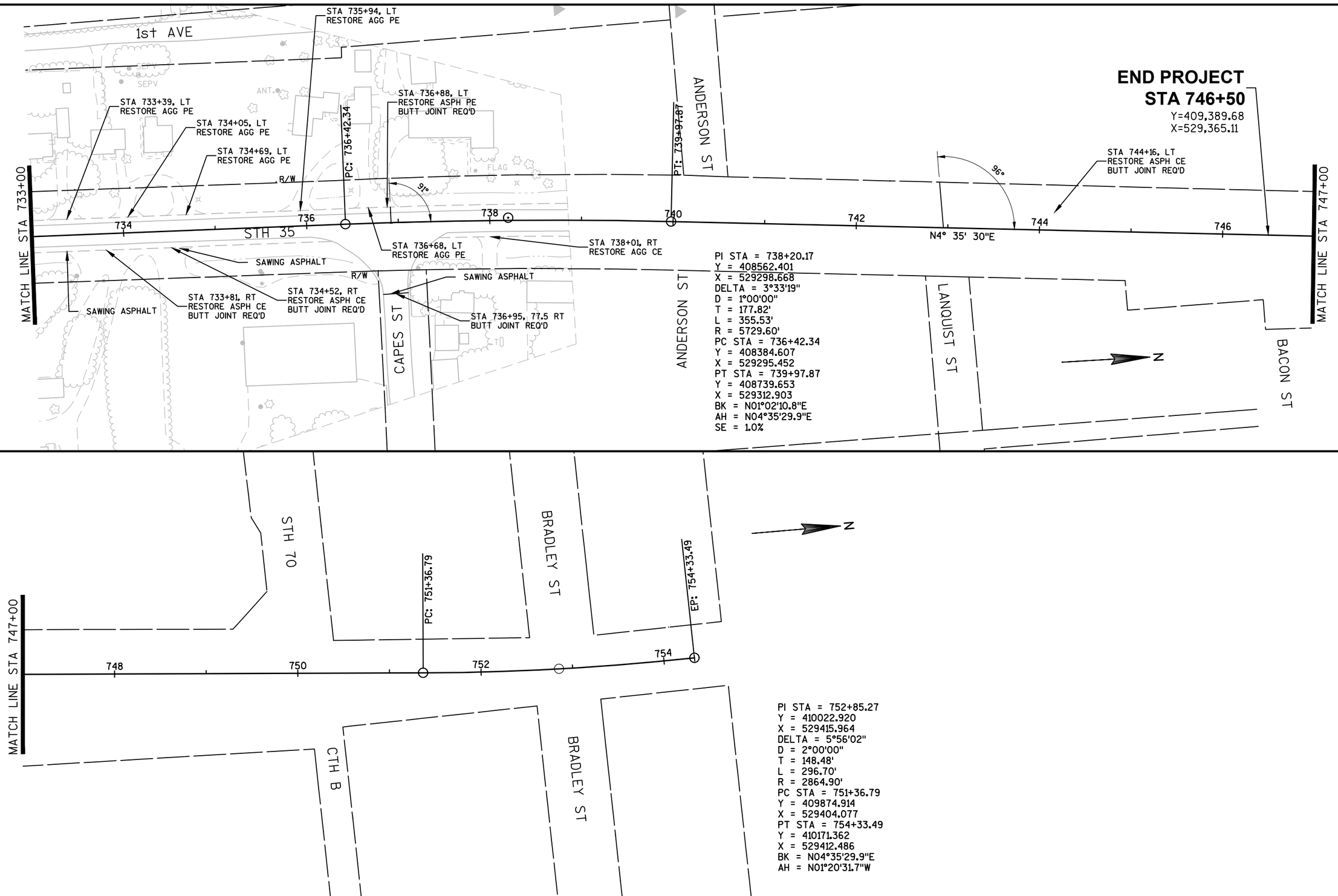
MATCH LINE STA 733+00

STH 35
N1° 02' 11"E
R/W
CEMETERY RD
TOWER RD
RASMUSSEN ST
OLSON ST
1st AVE
85°
94°
96°
91°
90°
N

PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	LINE DIAGRAM: STH 35	SHEET 89 E

FILE NAME : \\BHASERVER14\PROJECTS\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\050401_LD.DWG
LAYOUT NAME - 050435
PLOT DATE : 9/22/2017 8:31 AM
PLOT BY : CHAD D. GRUNDEMANN
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

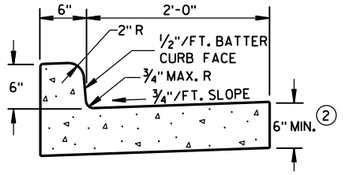


PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	LINE DIAGRAM: STH 35	SHEET 90	E

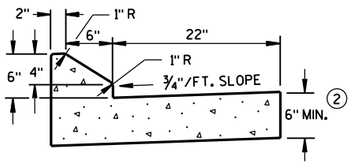
Standard Detail Drawing List

08D01-19	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
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
09A01-13B	AT-GRADE SIDE ROAD INTERSECTION, TYPE "A1" & "A2"
13A11-02A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-02B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
14B29-01	SAFETY EDGE
14B42-04A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-04B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-04C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-02A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING 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
15C08-17A	LONGITUDINAL MARKING (MAINLINE)
15C08-17B	PAVEMENT MARKING (TURN LANES)
15C12-05	TRAFFIC CONTROL FOR LANE CLOSURE (WITH FLAGGING OPERATIONS)
15C19-04A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-04B	MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY
15C35-01A	PAVEMENT MARKING (INTERSECTIONS)
15C35-01B	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15C35-01C	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

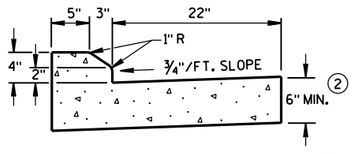
6



TYPES A & D ①

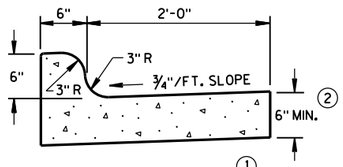


6" SLOPED CURB TYPES G & J ①

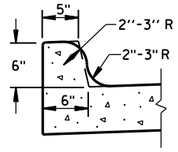


4" SLOPED CURB TYPES G & J ①

CONCRETE CURB & GUTTER 30"

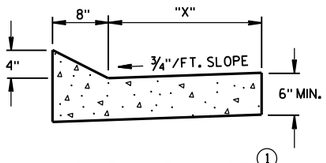


TYPES K & L ①



OPTIONAL CURB SHAPE FOR TYPES K & L ①

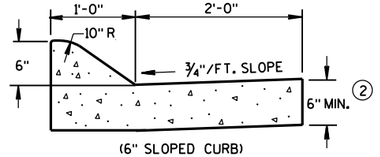
CONCRETE CURB & GUTTER 30"



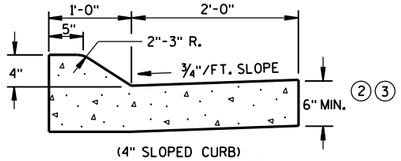
TYPES TBT & TBTT ①

CONCRETE CURB & GUTTER

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

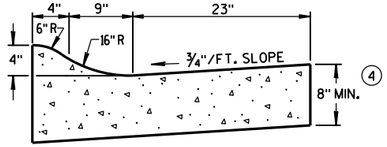


(6" SLOPED CURB)



(4" SLOPED CURB)

TYPES A & D ①



4" SLOPED CURB TYPES R & T ①⑤

CONCRETE CURB & GUTTER 36"

GENERAL NOTES

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

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

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

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

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

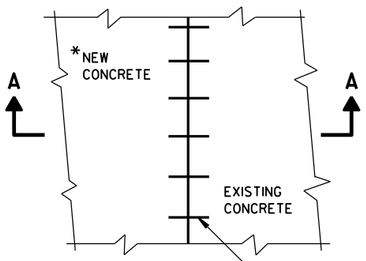
② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

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.

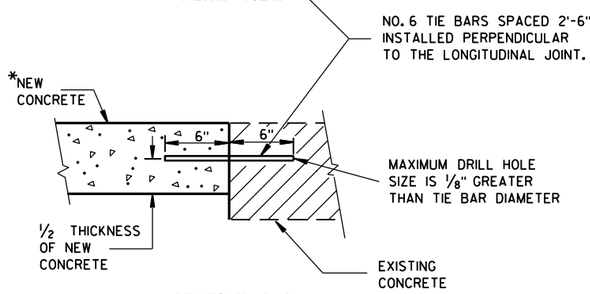
⑤ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

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



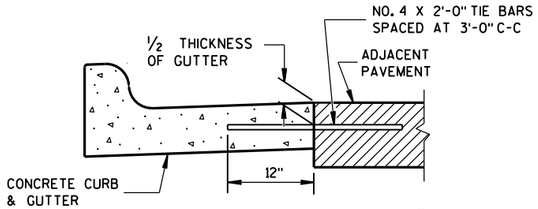
PLAN VIEW

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

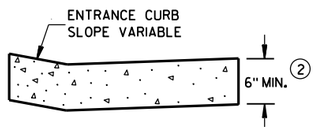


SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT

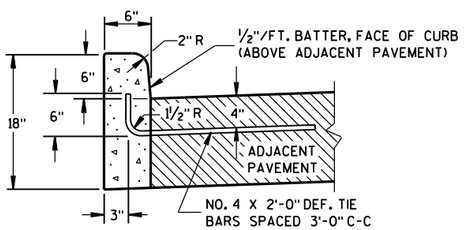


TYPICAL TIE BAR LOCATION ①

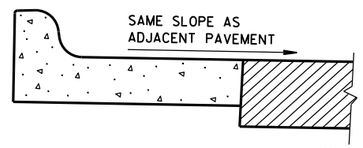


DRIVEWAY ENTRANCE CURB

(WHEN DIRECTED BY THE ENGINEER)

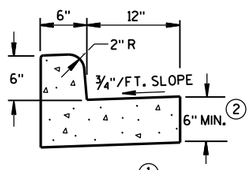


① TYPES A & D



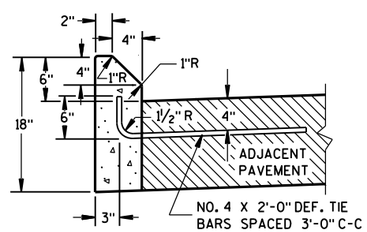
⑥ REVERSE SLOPE GUTTER

(TYPICAL FOR ALL CURB & GUTTER TYPES)



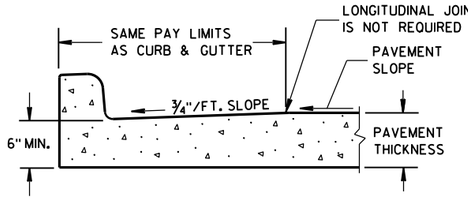
① TYPES A & D

CONCRETE CURB & GUTTER 18"

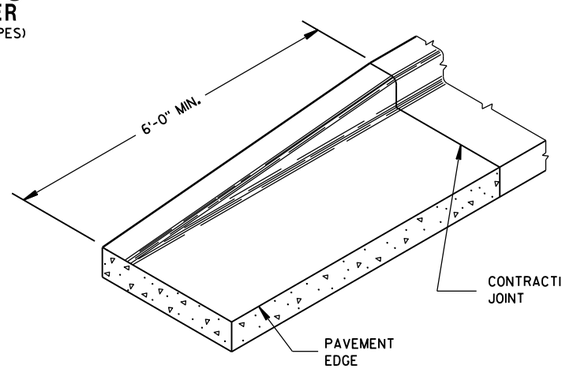


① TYPES G & J

CONCRETE CURB



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



END SECTION CURB & GUTTER

CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June, 2016 — DATE

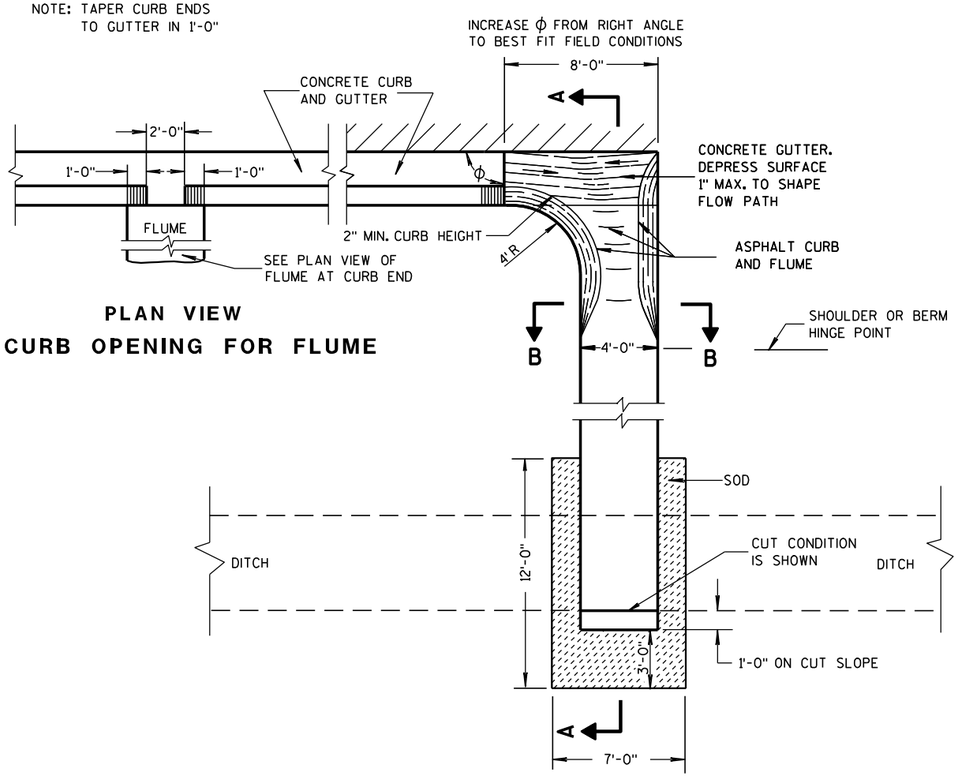
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

6

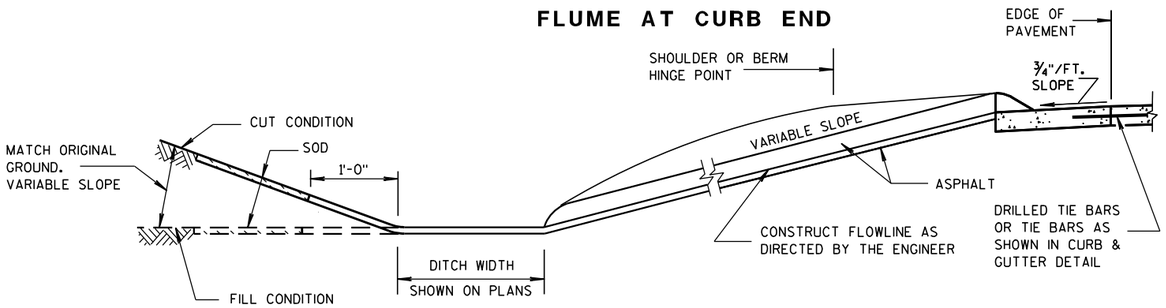
S.D.D. 8 D 1-19

ASPHALTIC FLUME

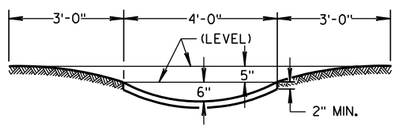


PLAN VIEW
CURB OPENING FOR FLUME

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.

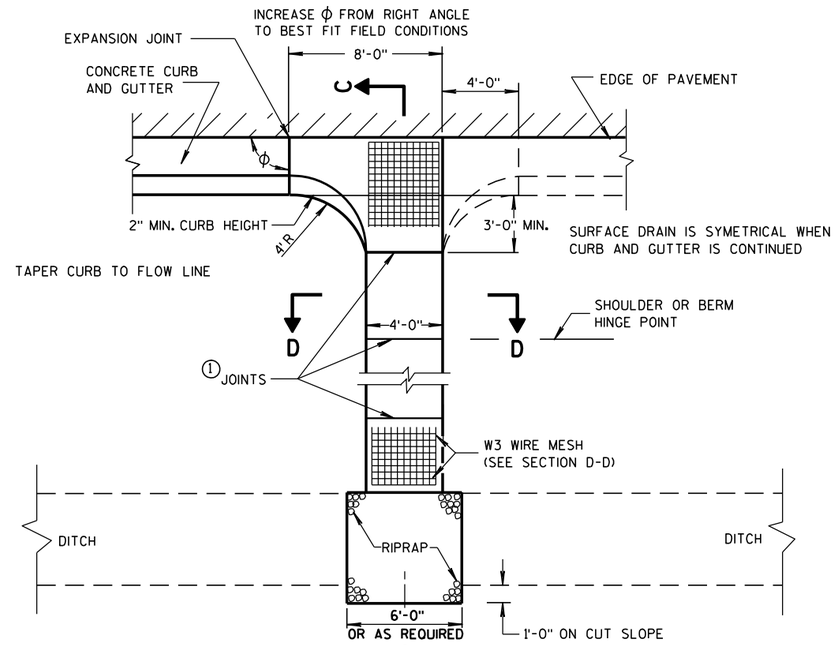
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

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.

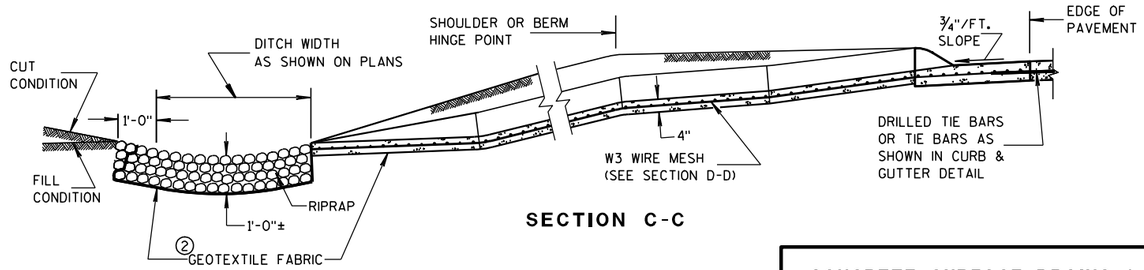
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

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

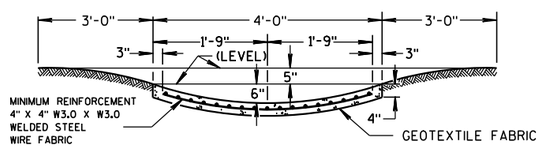
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

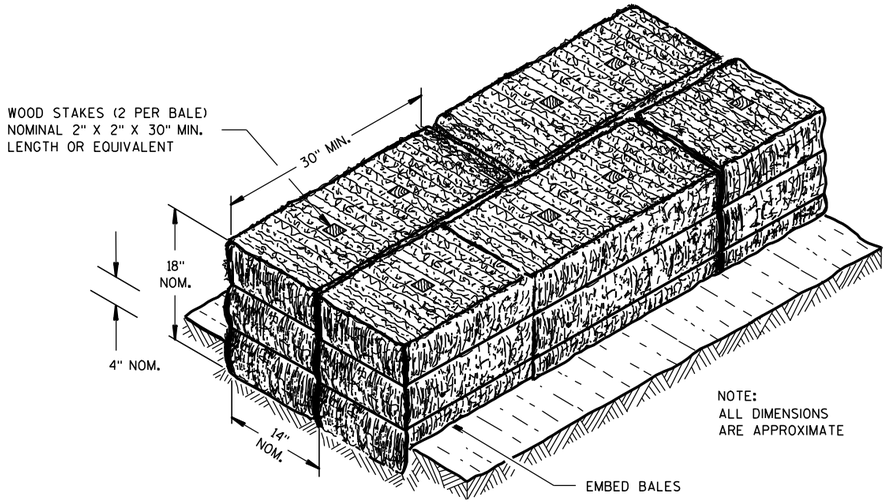
APPROVED
9-4-08 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
93
MENT
FHWA

6

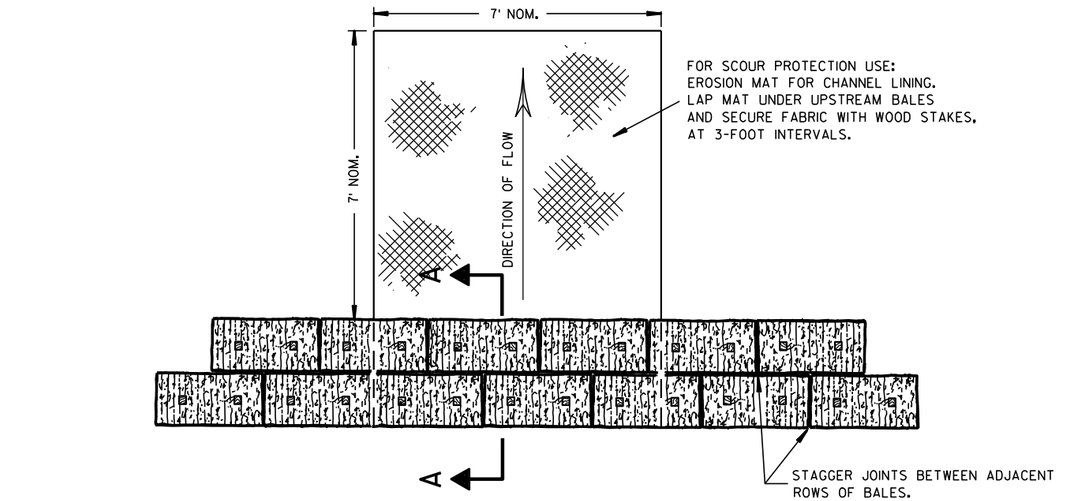
S.D.D. 8 D 4-5

6

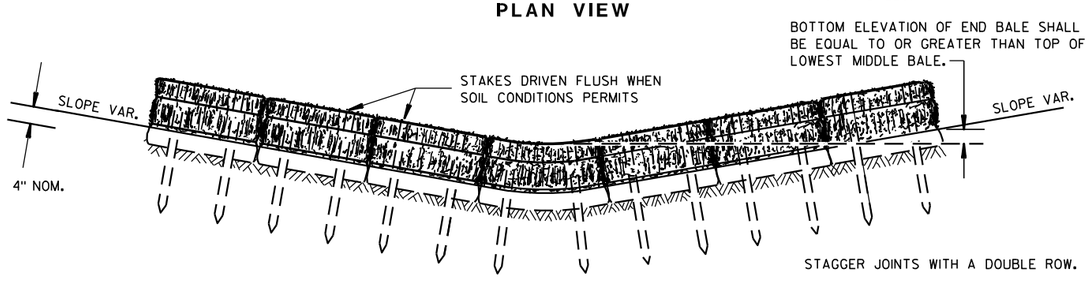
S.D.D. 8 D 4-5



SECTION A-A



PLAN VIEW



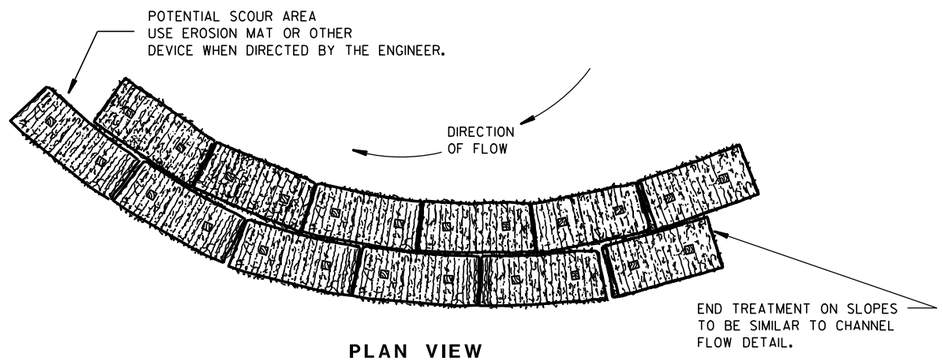
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

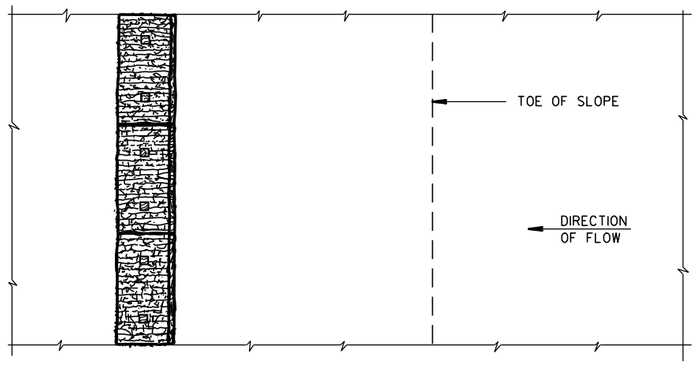
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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.

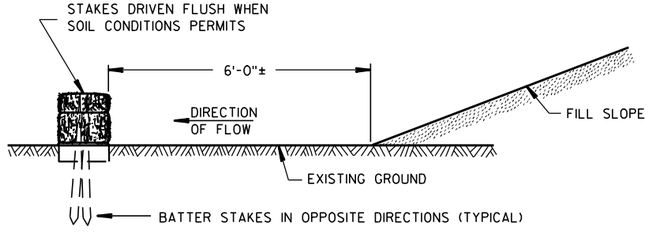


PLAN VIEW

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

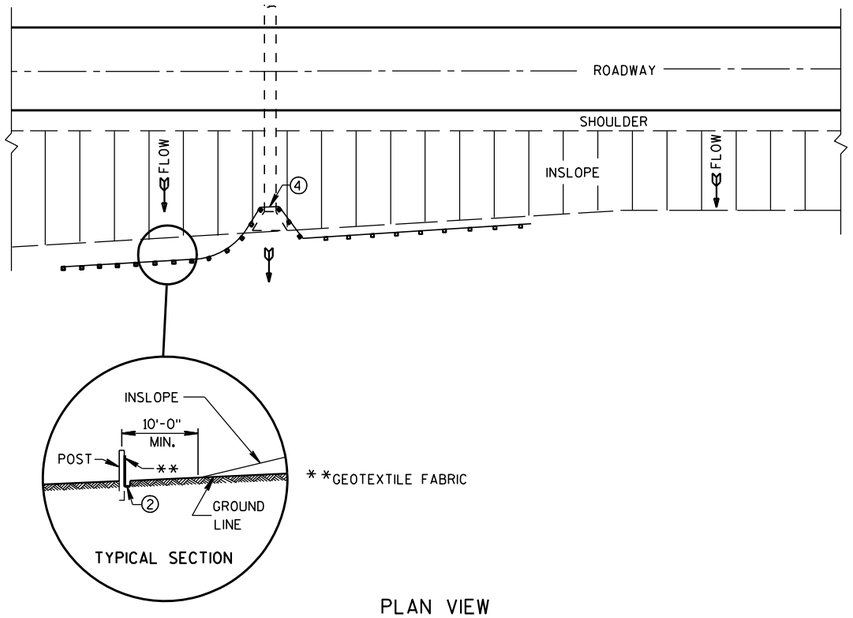
6/04/02 — DATE

/S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

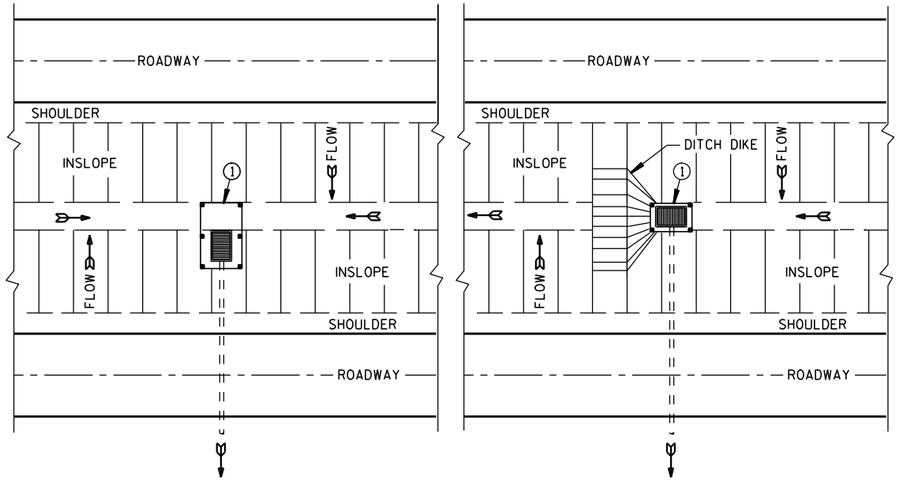
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S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

GENERAL NOTES

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

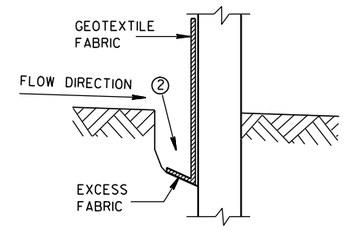
① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.

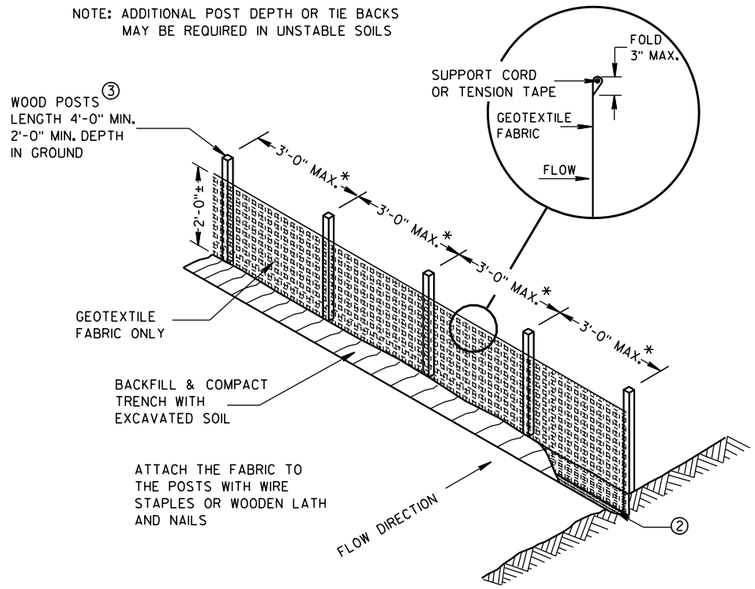
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.

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

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

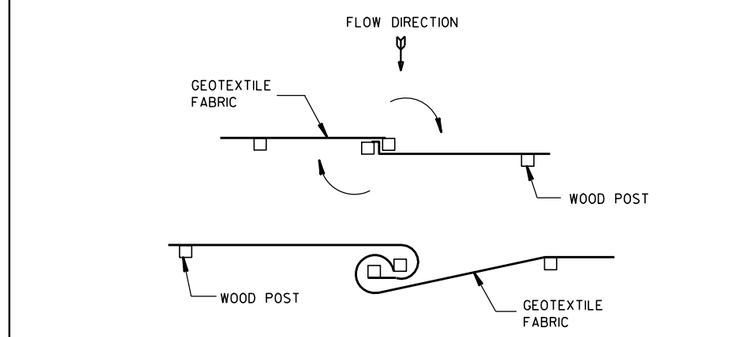


TRENCH DETAIL

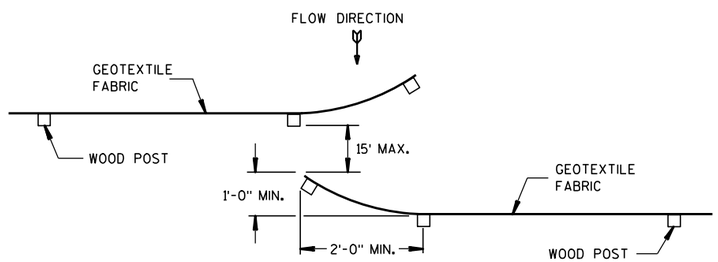


*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE

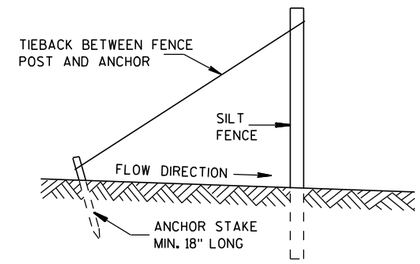


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE ⑤



SILT FENCE TIE BACK

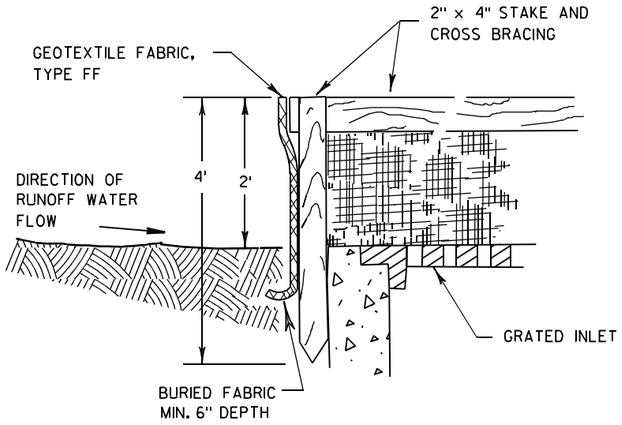
(WHEN REQUIRED BY THE ENGINEER)

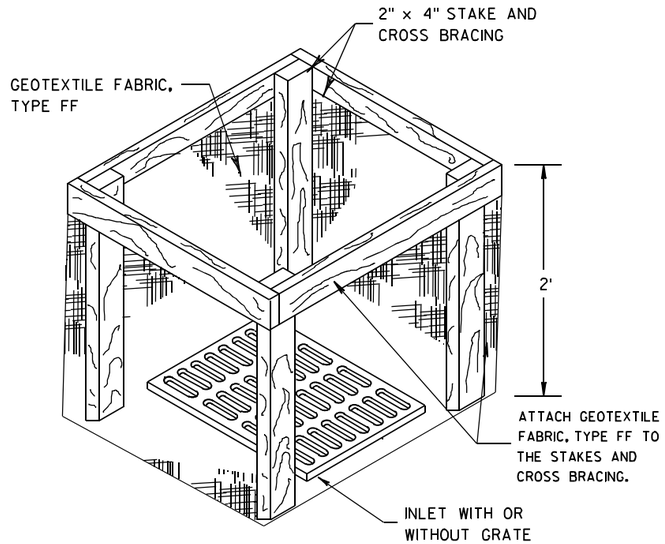
SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

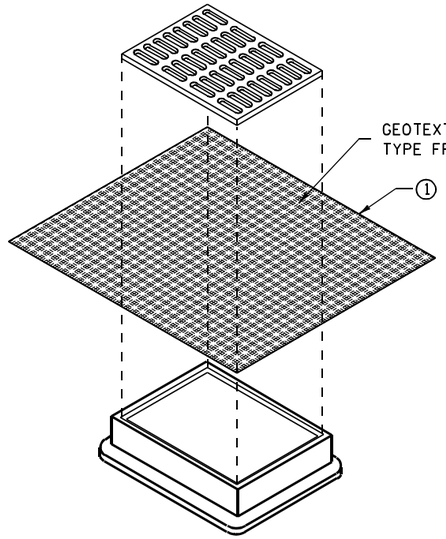
APPROVED
4-29-05
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 9-6



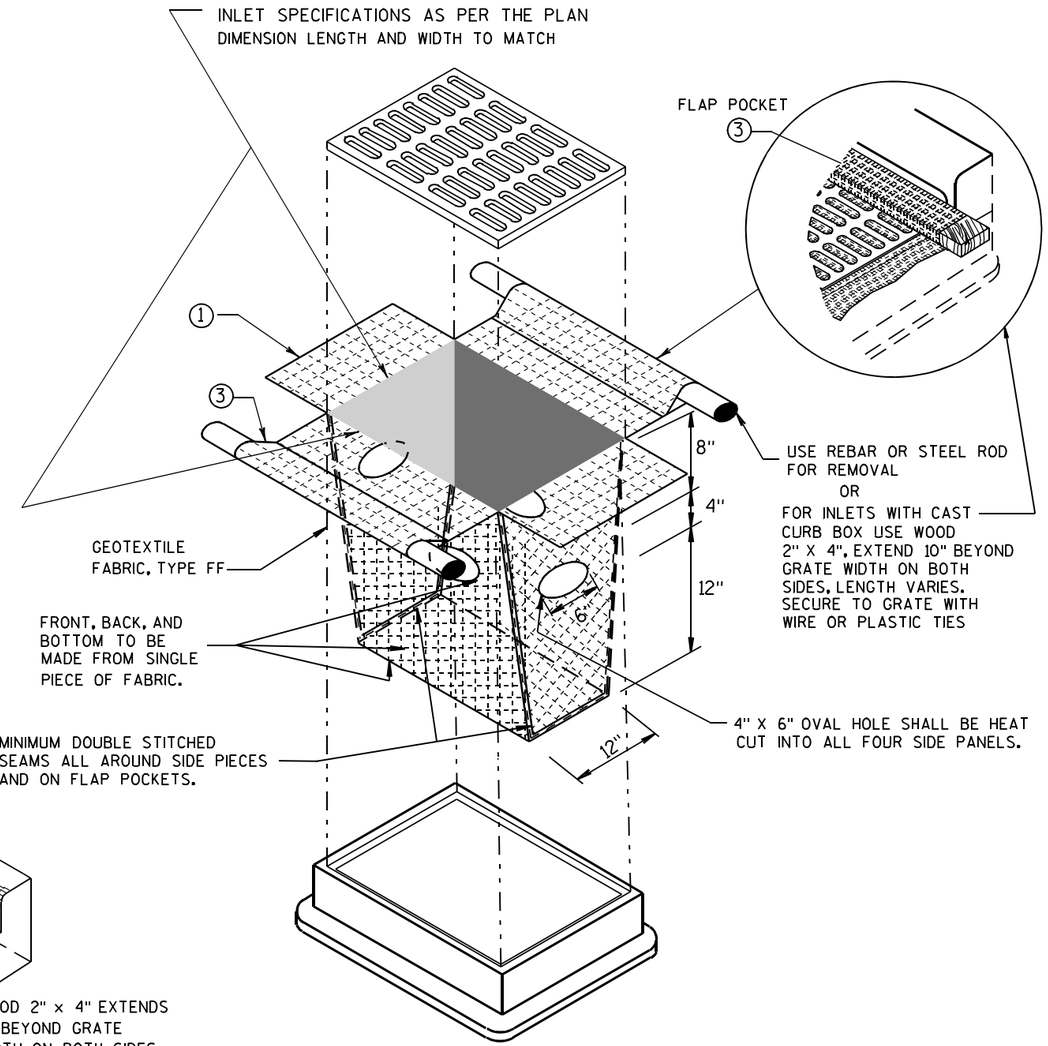


INLET PROTECTION, TYPE A



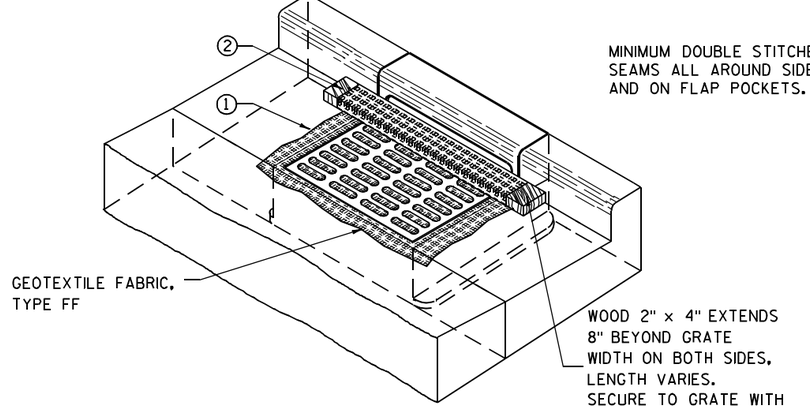
INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

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



INLET PROTECTION, TYPE D

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



INLET PROTECTION, TYPE C (WITH CURB BOX)

GENERAL NOTES

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

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

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

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

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

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

INSTALLATION NOTES

TYPE B & C

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

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

TYPE D

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

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

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

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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

METAL APRON ENDWALLS

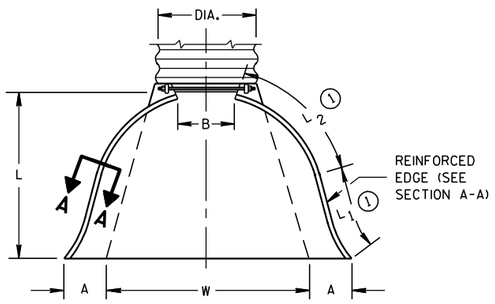
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4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

× EXCEPT CENTER PANEL SEE GENERAL NOTES

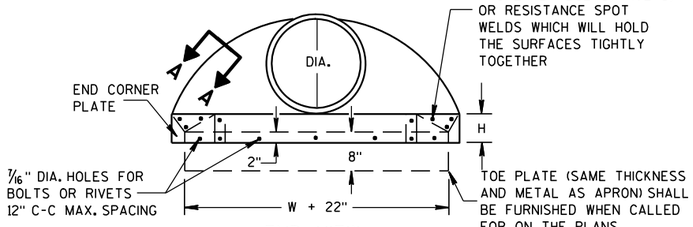
REINFORCED CONCRETE APRON ENDWALLS

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

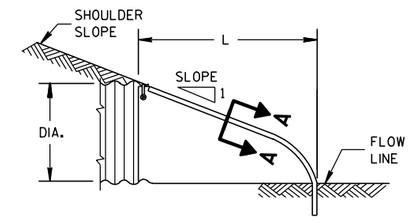
* MINIMUM
** MAXIMUM



PLAN VIEW

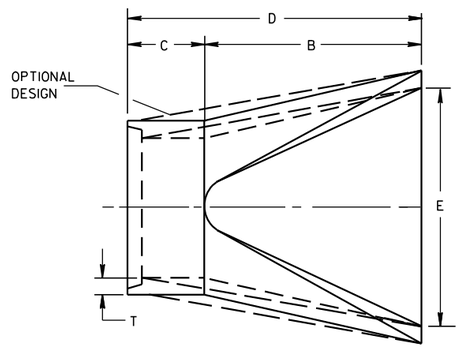


END VIEW

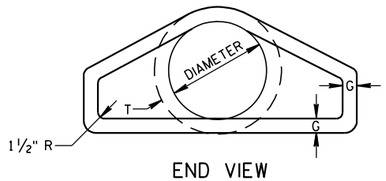


SIDE ELEVATION

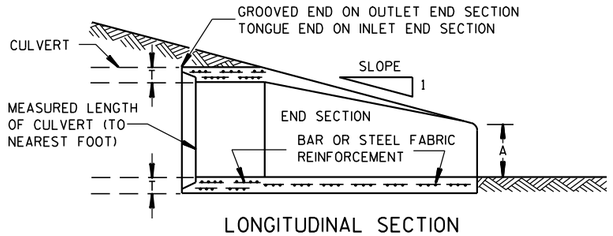
METAL ENDWALLS



PLAN

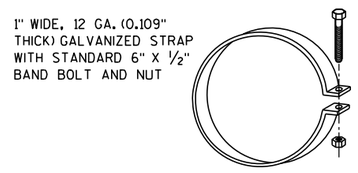


END VIEW



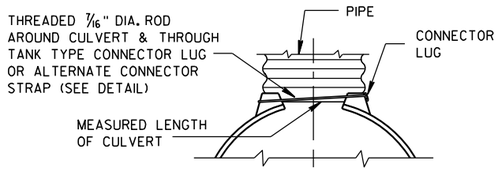
LONGITUDINAL SECTION

CONCRETE ENDWALLS

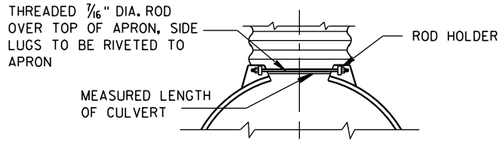


ALTERNATE FOR TYPE 1 CONNECTION

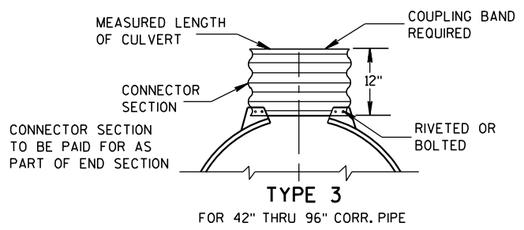
END SECTION CONNECTOR STRAP



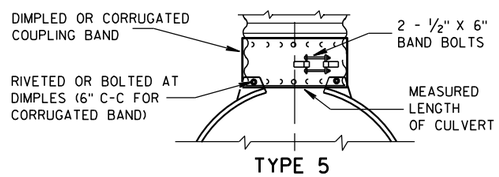
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

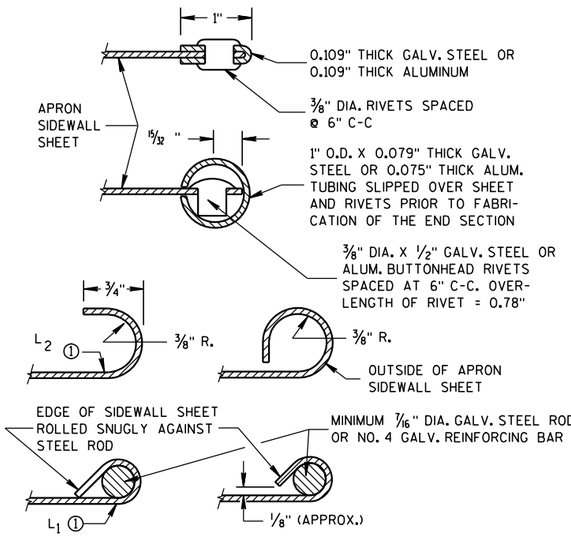
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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

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

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

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

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

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

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

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

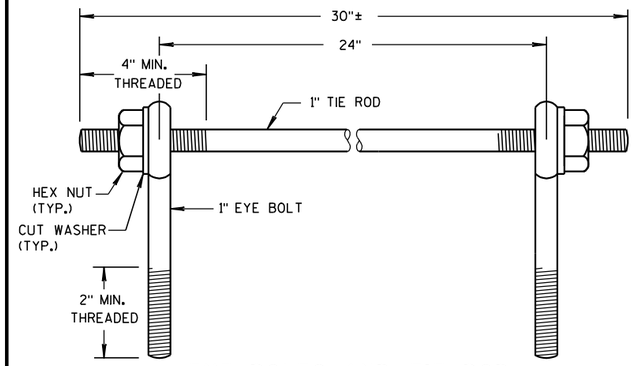
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

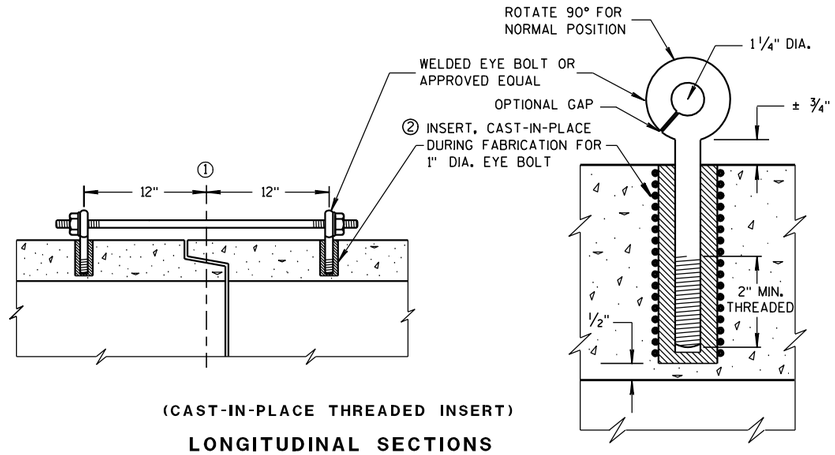
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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.

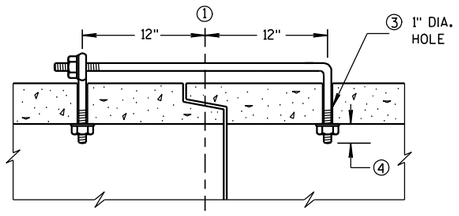
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

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

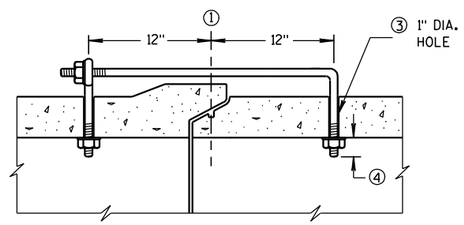
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

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)

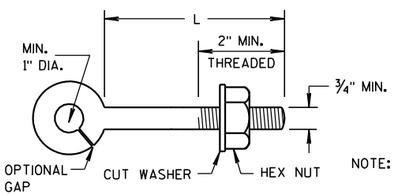


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

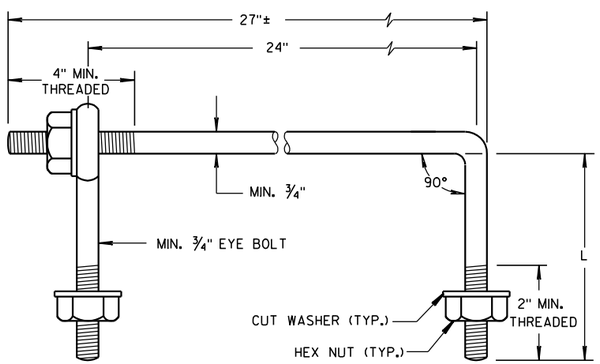
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



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

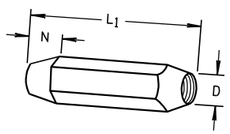
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

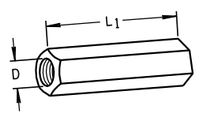
ADJUSTABLE TIE ROD TABLE

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



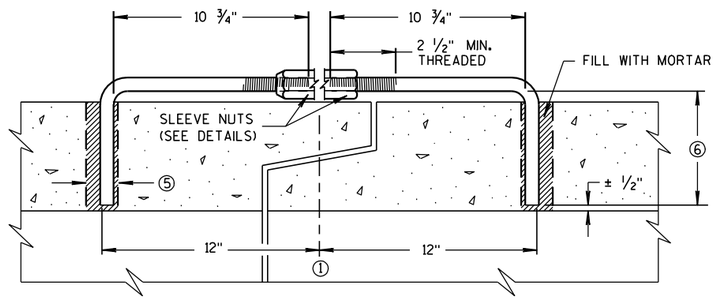
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PLAIN

RIGHT AND LEFT THREADS

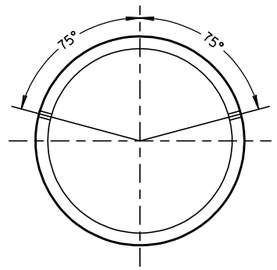
SLEEVE NUTS



LONGITUDINAL SECTION

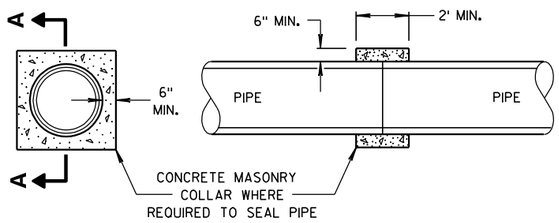
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

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

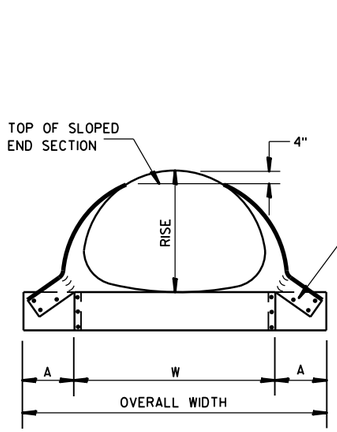
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
98
FHWA

6

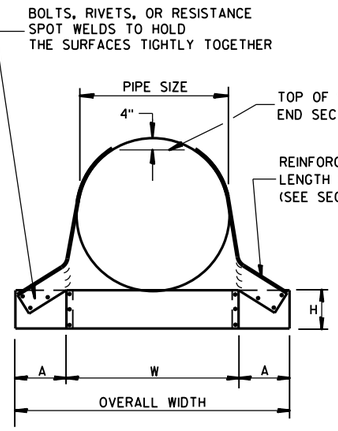
S.D.D. 8 F 4-7

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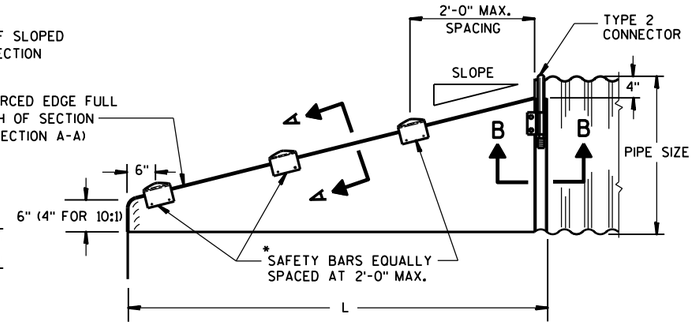
S.D.D. 8 F 4-7



FRONT VIEW



FRONT VIEW



SIDE VIEW

GENERAL NOTES

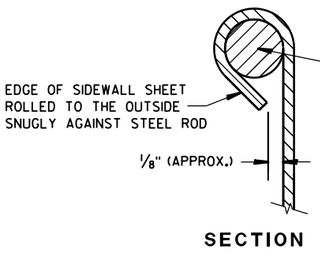
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

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

STEEL APRON ENDWALLS FOR CULVERT PIPE
SLOPED SIDE DRAINS

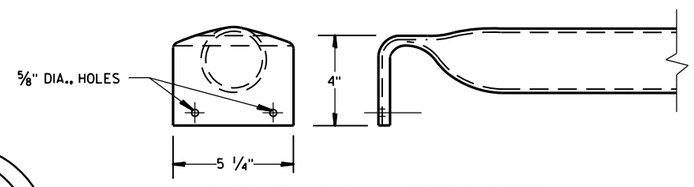
PIPE DIA. (IN.)	MIN. THICK. (Inches)	DIMENSIONS (Inches)				L DIMENSIONS					
		A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	.064	8	6	21	37	4:1	20	6:1	30	10:1	70
18	.064	8	6	24	40	4:1	32	6:1	48	10:1	100
21	.064	8	6	27	43	4:1	44	6:1	66	10:1	130
24	.064	8	6	30	46	4:1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



SECTION A-A

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

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

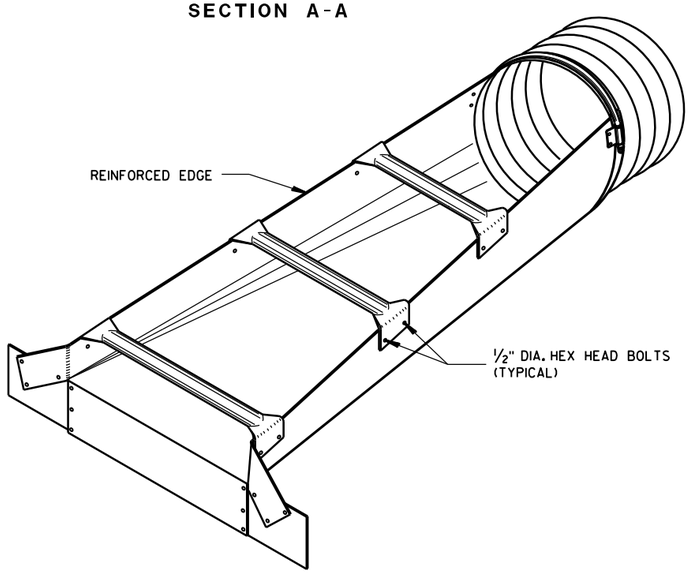


DETAIL OF SAFETY BAR

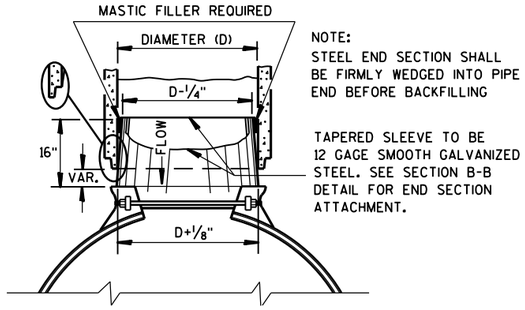
STEEL APRON ENDWALLS FOR PIPE ARCH
SLOPED SIDE DRAINS

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

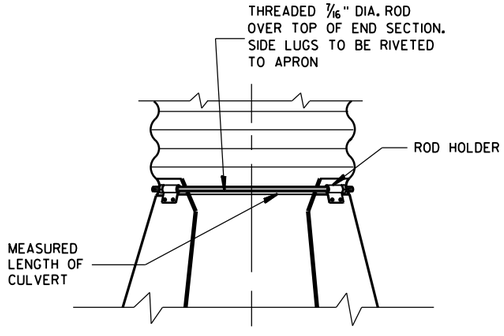
① * MINIMUM THICKNESS OF ALL 10:1 SLOPED SIDE DRAINS IS 0.109".
② ACTUAL SLOPE GREATER THAN 10:1.



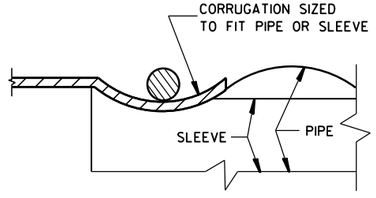
ISOMETRIC VIEW



STEEL ADAPTER SLEEVE FOR CONCRETE PIPE



TYPE 2
CONNECTION DETAIL



SECTION B-B

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

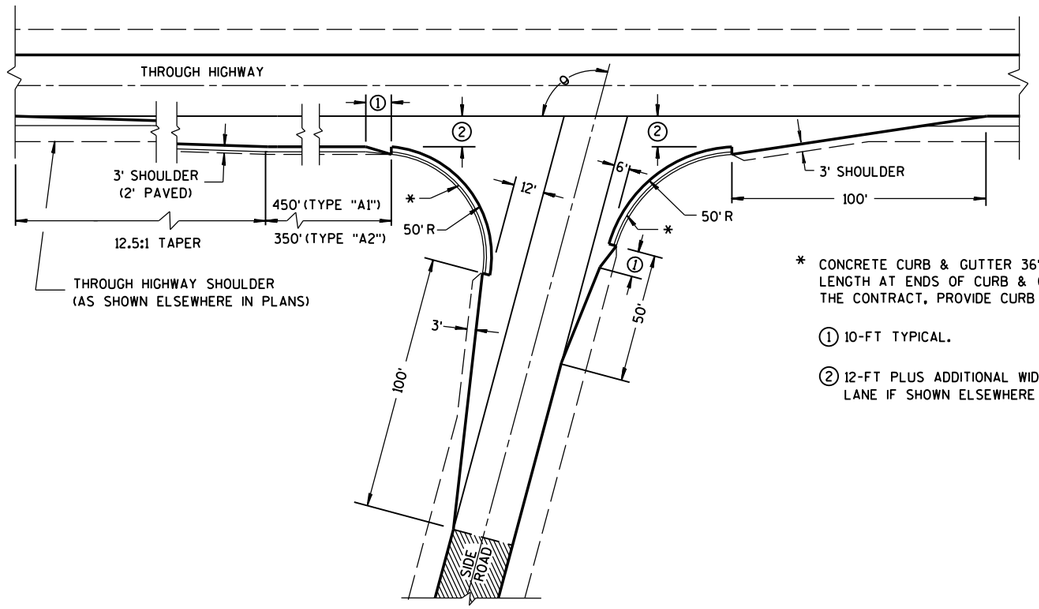
APPROVED
9/14/2012 — DATE
/S/ Jerry H. Zoda — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 F 7-5

6

S.D.D. 8 F 7-5



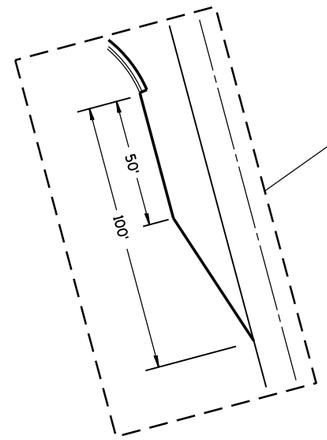
θ = MORE THAN 80°

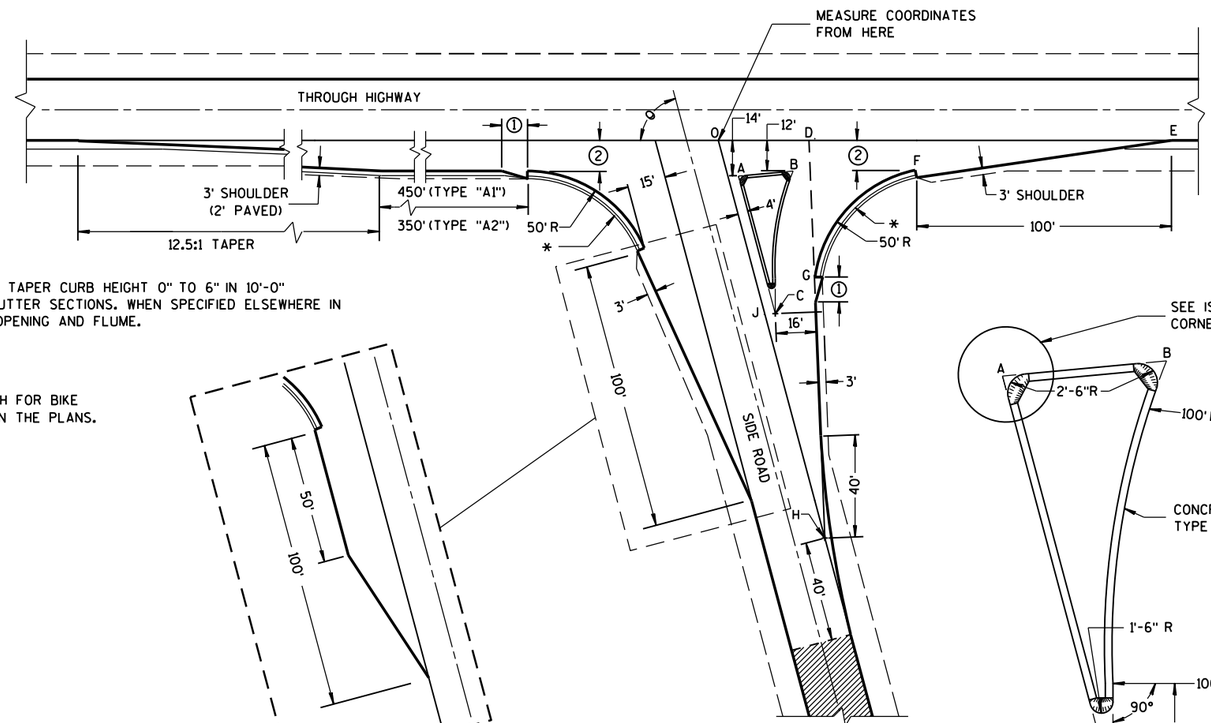
* CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

① 10-FT TYPICAL.

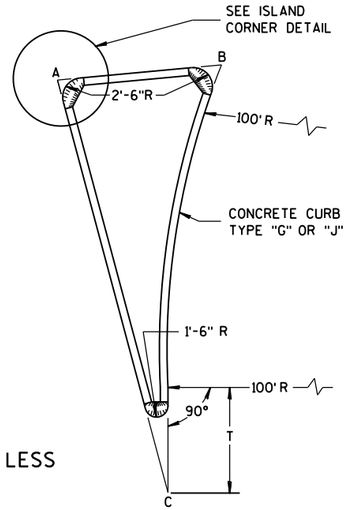
② 12-FT PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLANS.

EXISTING PAVED SURFACE

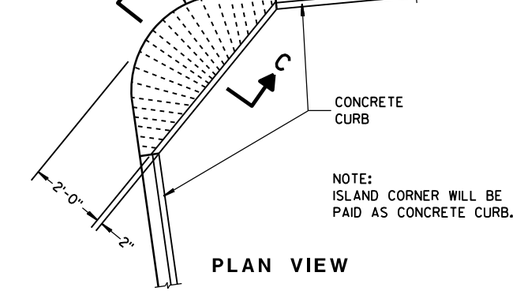




θ = ACUTE ANGLES 80° OR LESS

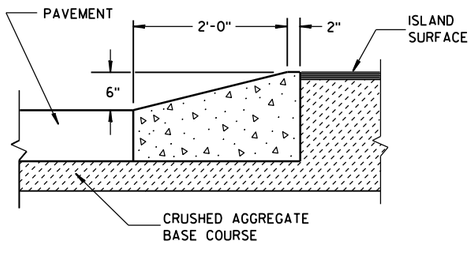


SIDE ROAD WIDENING AND TAPER REQUIRED WHERE
THE THROUGH HIGHWAY CARRIES TWO-WAY TRAFFIC
θ = ACUTE ANGLES 70° OR LESS



NOTE:
ISLAND CORNER WILL BE
PAID AS CONCRETE CURB.

PLAN VIEW



SECTION C-C

ISLAND CORNER DETAIL

(TO BE CONSTRUCTED AT ALL ISLAND CORNERS)

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

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

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

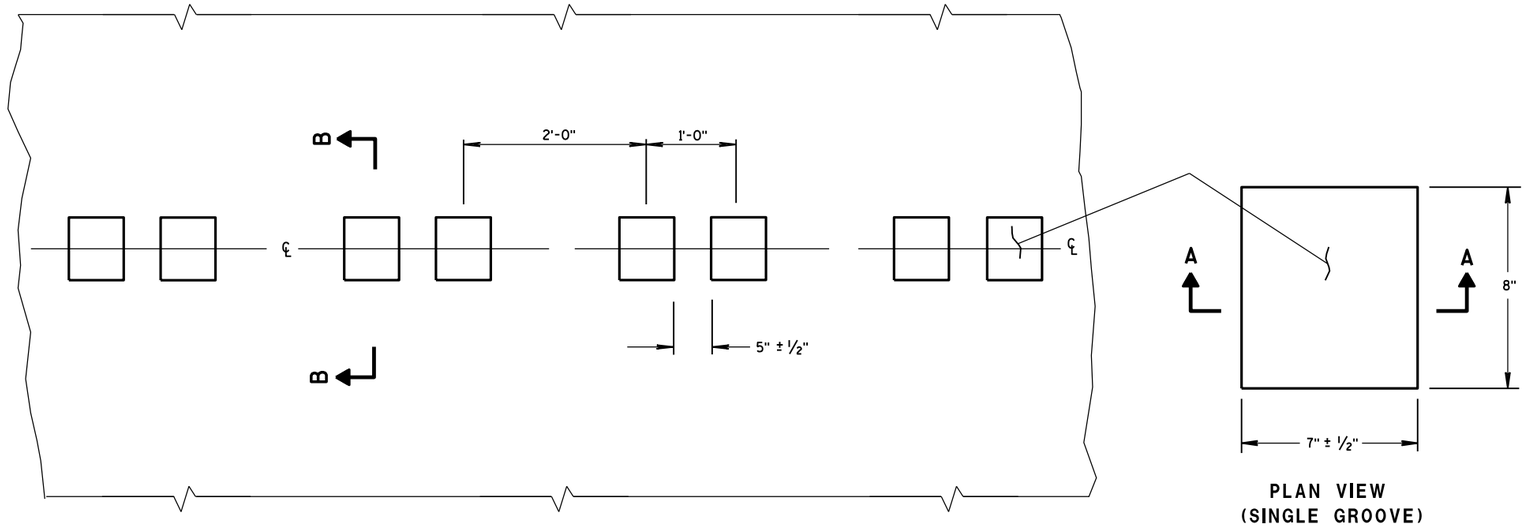
AT-GRADE SIDE ROAD
INTERSECTION, TYPE "A1" & "A2"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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

6



PLAN VIEW
CENTER LINE WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR MILLED RUMBLE STRIP

GENERAL NOTES

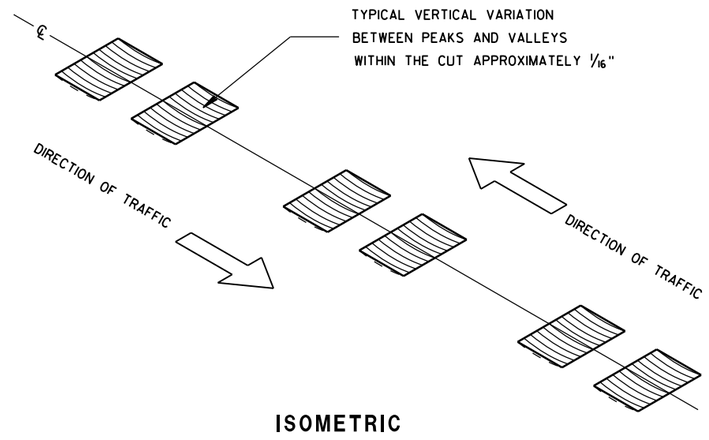
DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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

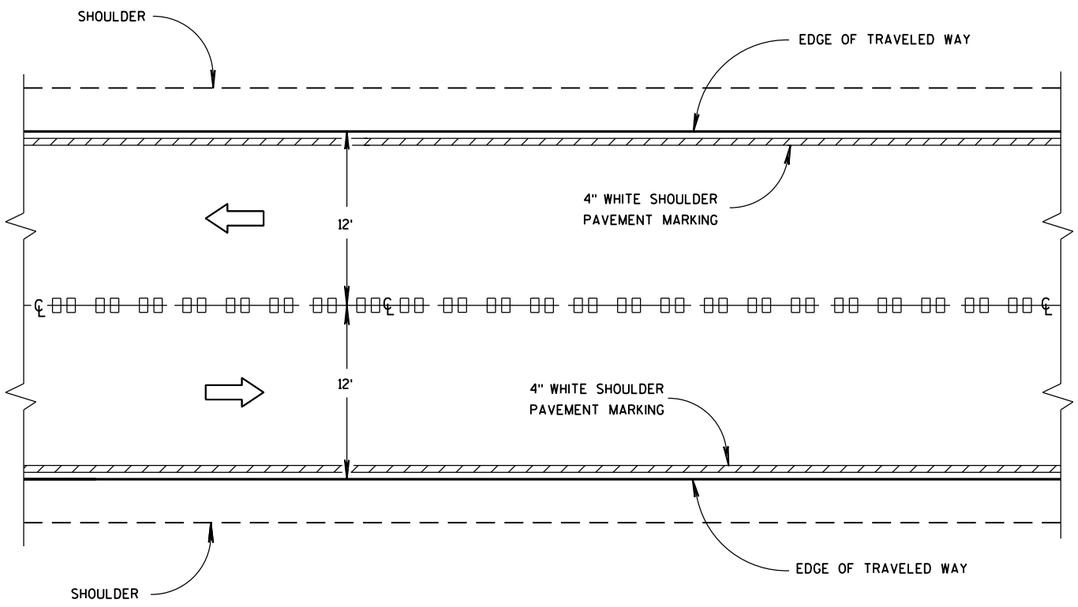
INSTALL PAVEMENT MARKING AFTER THE GROOVES ARE INSTALLED.

SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

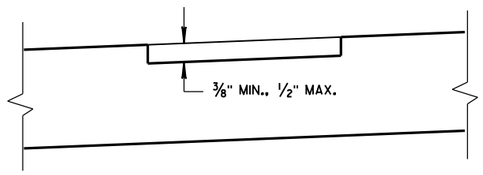
(1) CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



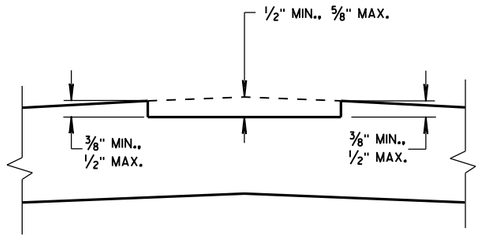
ISOMETRIC



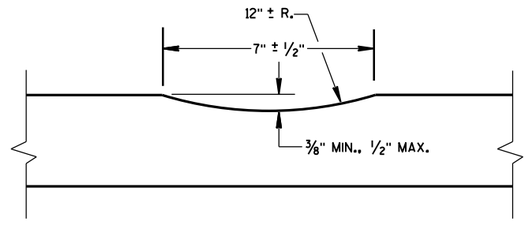
CENTER LINE GROOVES ON TWO-WAY ROADWAYS



SECTION B-B
SUPERELEVATED ROADWAY



SECTION B-B
CROWNED ROADWAY



SECTION A-A

6

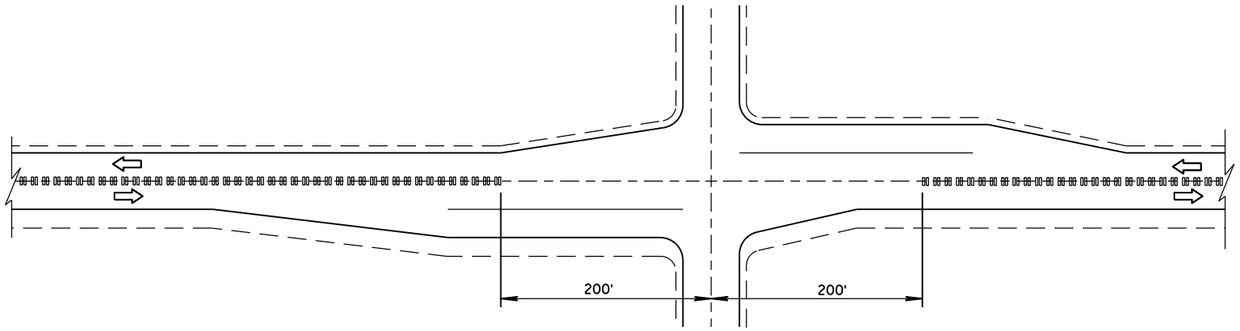
S.D.D. 13 A 11-2a

2-LANE RURAL
CENTER LINE RUMBLE STRIP,
MILLING

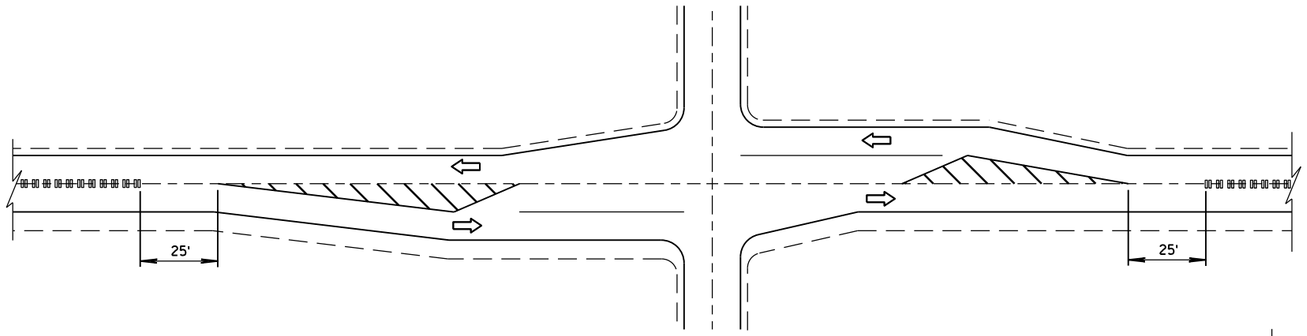
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

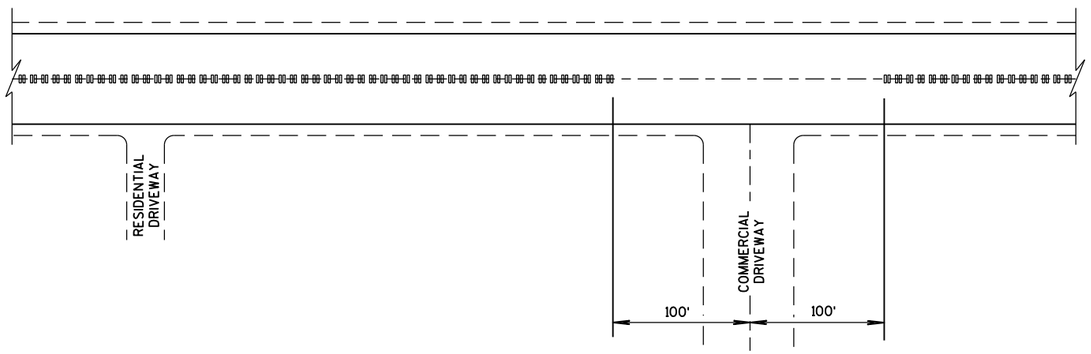
S.D.D. 13 A 11-2a



CENTER LINE GROOVES AT INTERSECTIONS

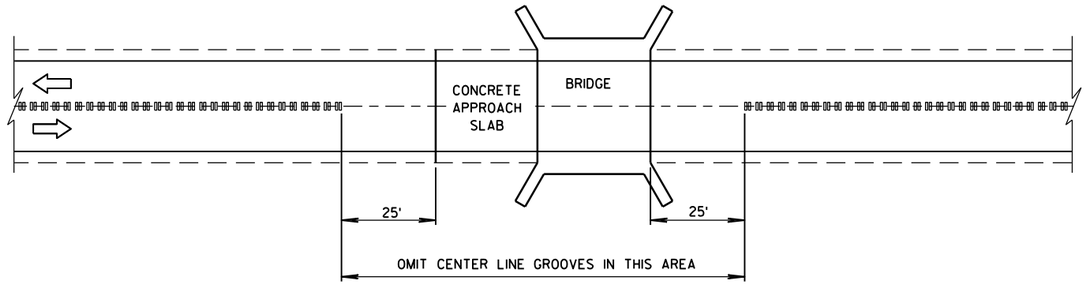


CENTER LINE GROOVES AT INTERSECTIONS
(WITH LEFT TURN LANES)

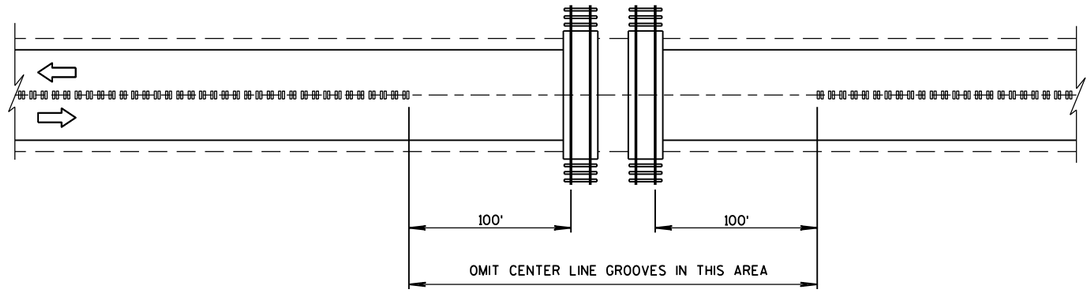


CENTER LINE GROOVES AT DRIVEWAYS (1)

(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

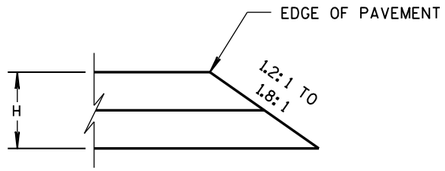
APPROVED

5/15/2013 — DATE

/S/ Jerry H. Zoda — ROADWAY STANDARDS DEVELOPMENT ENGINEER

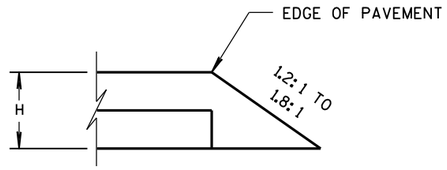
NT

FHWA



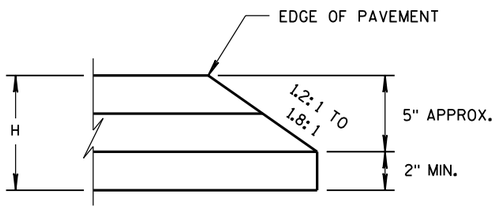
CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS



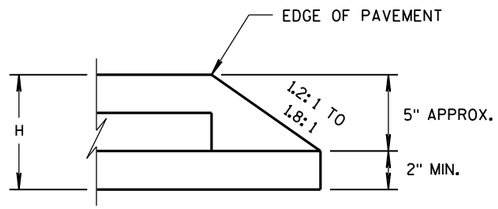
CONSTRUCTED WITH FINAL LAYER

FOR H 5" OR LESS



CONSTRUCTED WITH FINAL TWO LAYERS

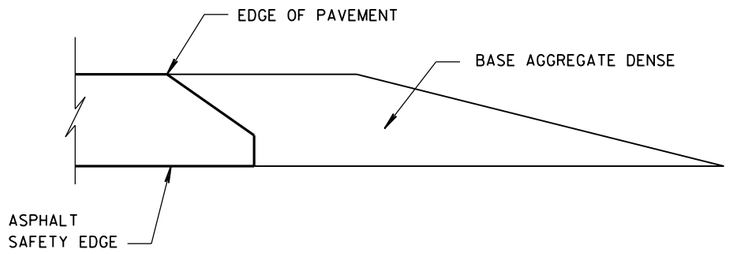
FOR H GREATER THAN 5"



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.

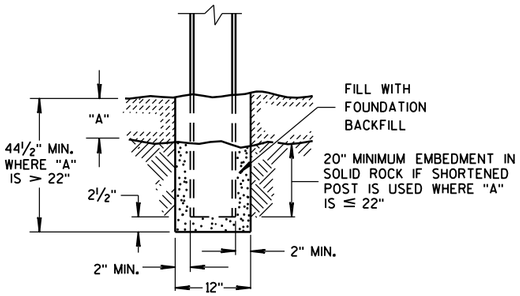
(2) USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

(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.

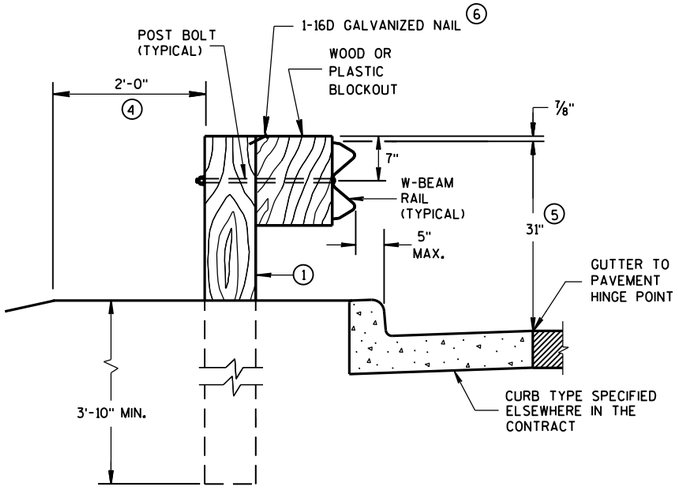
(4) WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

(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".

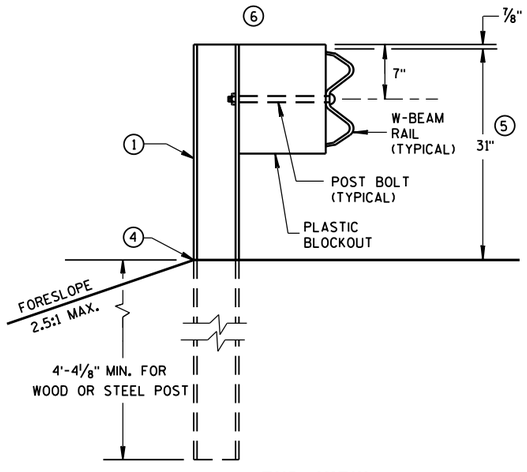
(6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.



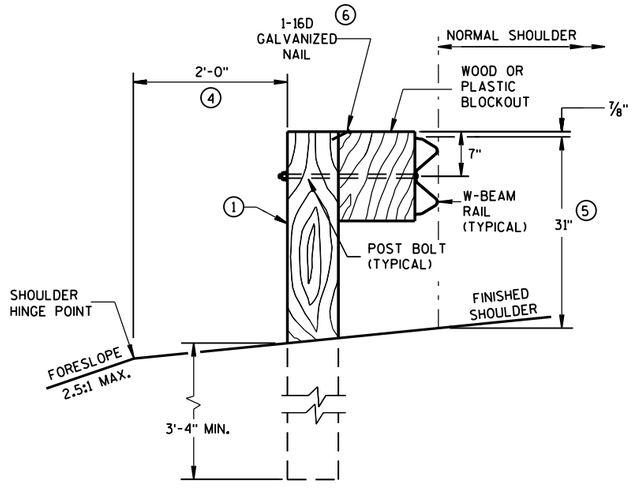
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (3)



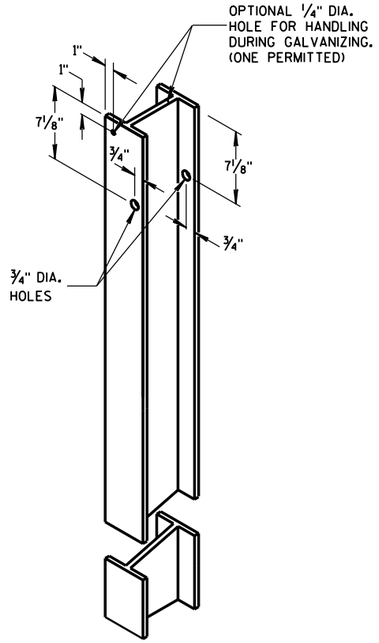
END VIEW
LOCATED ALONG A CURBED ROADWAY



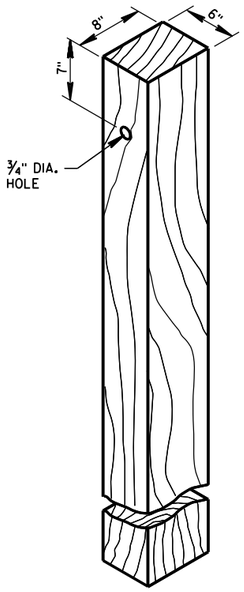
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



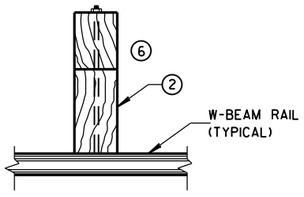
END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



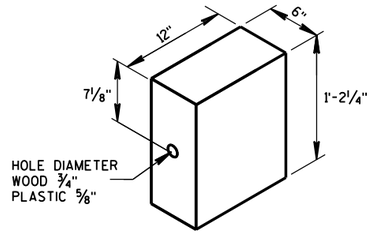
STEEL POST &
HOLE PUNCHING DETAIL
(w6X9) (1)



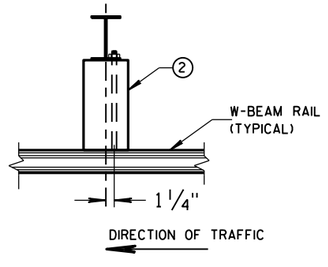
WOOD POST
(6" X 8") NOMINAL (1)



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



WOOD OR
PLASTIC BLOCKOUT (2)

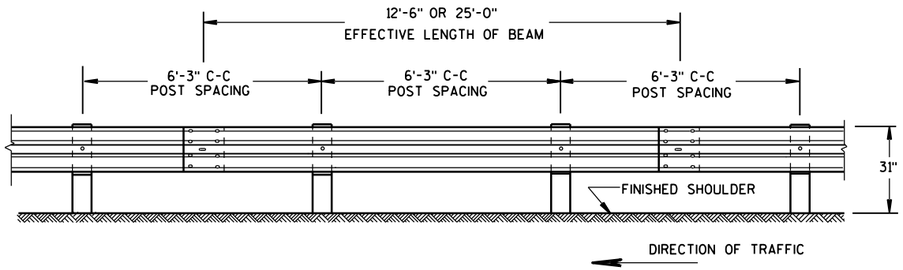


PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

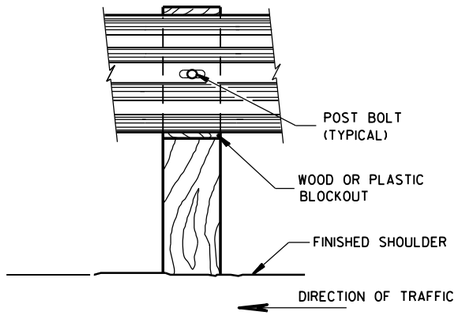
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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FRONT VIEW

POST SPACING STANDARD INSTALLATION



FRONT VIEW AT WOOD POST

7. PROVIDE SILVER REFLECTIVE SHEETING ON ALL REFLECTORS EXCEPT THOSE LOCATED ALONG THE LEFT EDGE OF ONE-WAY ROADWAYS, WHICH SHALL BE PROVIDED WITH YELLOW REFLECTIVE SHEETING. SHEETING IS TYPE H. SEE STANDARD SPECIFICATION 637.

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.

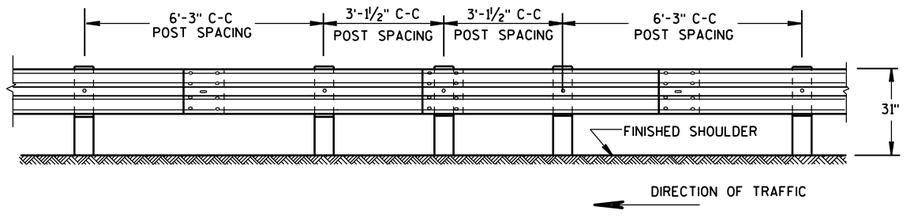
9. REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.

10. PROVIDE AN ANGLE OF BEND OF 90° ± 1° FOR TWO-SIDED REFLECTORS.

11. 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

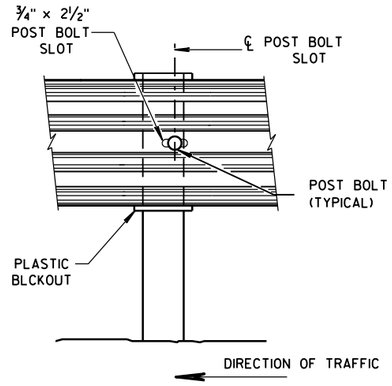
POST BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND 5/8" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

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.

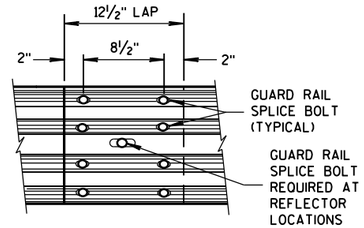


FRONT VIEW

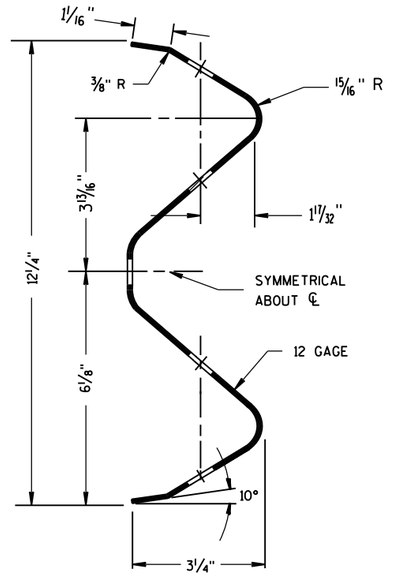
HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)



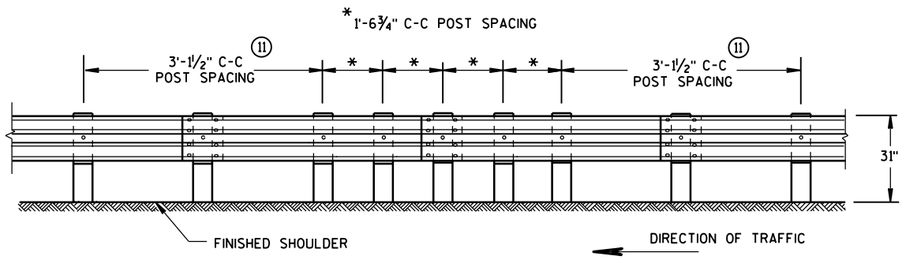
FRONT VIEW AT STEEL POST



FRONT VIEW
MID-SPAN BEAM SPLICE

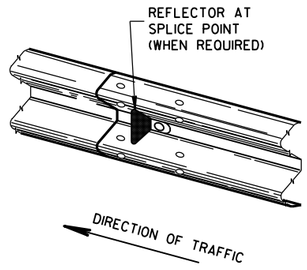


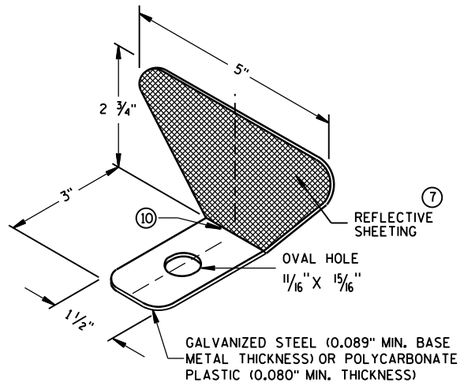
SECTION THRU W-BEAM RAIL



FRONT VIEW

QUARTER POST SPACING (QS)





ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION 7

REFLECTOR SPACING 8

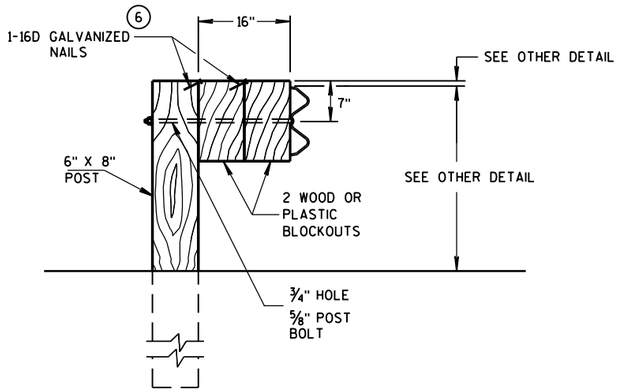
	BEAM GUARD LENGTH	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY TRAFFIC	< 200'	50' C-C	1	3
	> 200'	100' C-C	1	
TWO WAY TRAFFIC	< 200'	25' C-C	1 9	6
	> 200'	50' C-C	1	
TWO WAY TRAFFIC	< 200'	50' C-C	2	3
	> 200'	100' C-C	2 10	

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

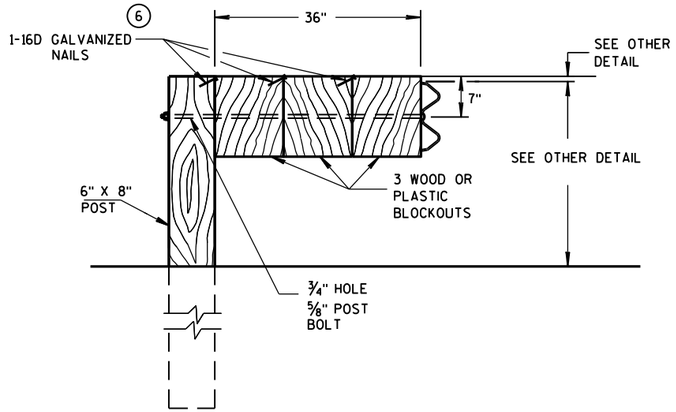
6

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DETAIL FOR 16" BLOCKOUT DEPTH

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

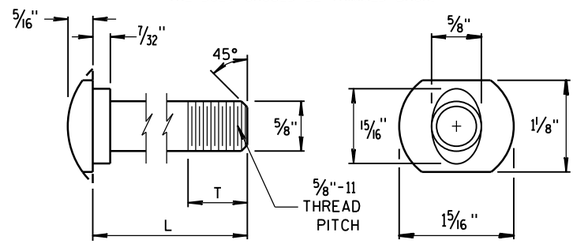


DETAIL FOR 36" BLOCKOUT DEPTH

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

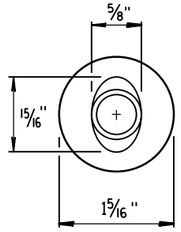
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

NOTE: 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 1/16".
2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

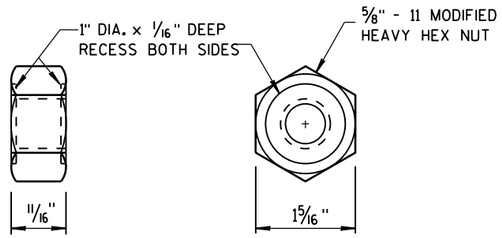


POST BOLT TABLE

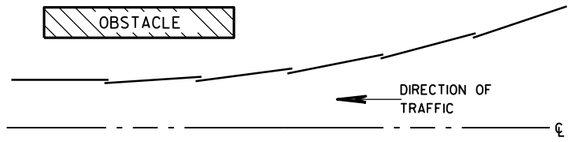
L	T (MIN.)
1¼"	1⅛"
2"	1¾"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



ALTERNATE BOLT HEAD

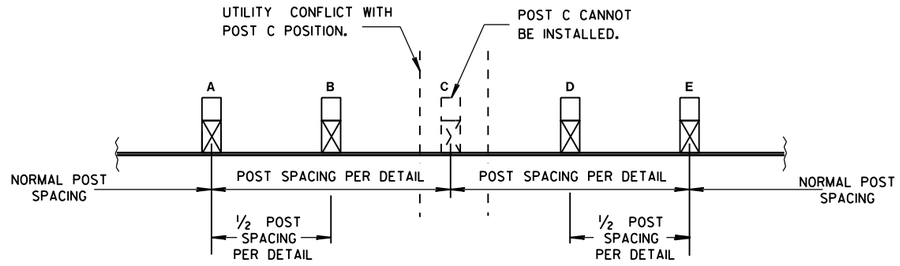


POST BOLT, SPLICE BOLT AND RECESS NUT

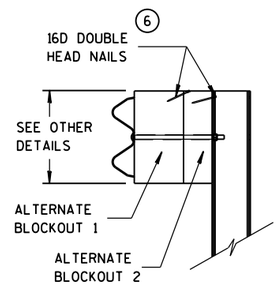


PLAN VIEW

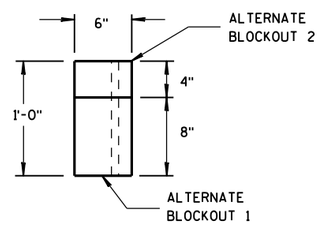
BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



SIDE VIEW



TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6
S.D.D. 14 B 42-4c

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.

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

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

(G) ½" DIAMETER X 3" LONG LAG BOLT AND WASHER.

(H) HARDWARE VARIES BETWEEN DIFFERENT MANUFACTURES. SEE MANUFACTURE'S DRAWING FOR INFORMATION.

(I) DIMENSIONS MAY VARY. SEE MANUFACTURE'S INFORMATION.

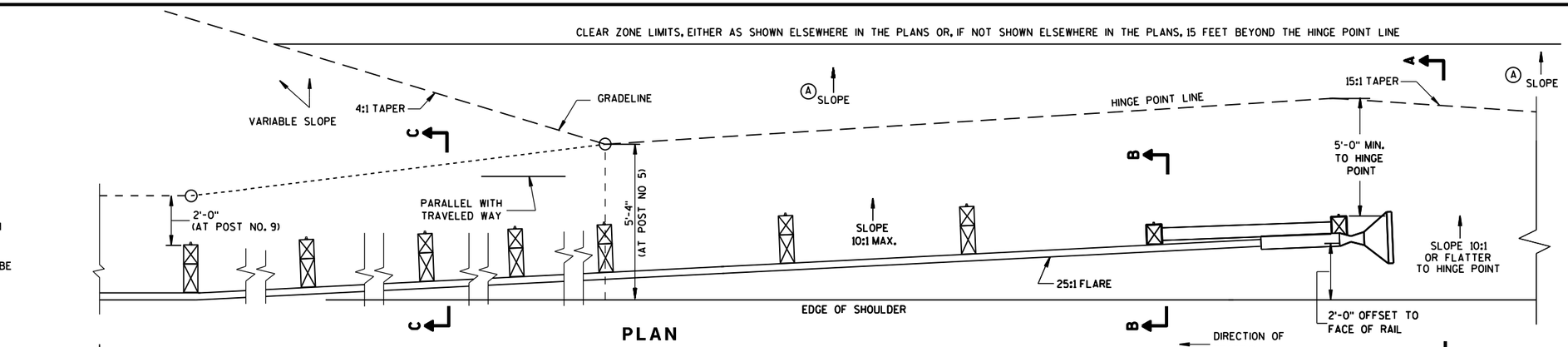
SEE SDD 14B42 FOR MORE INFORMATION.

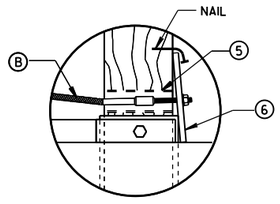
* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

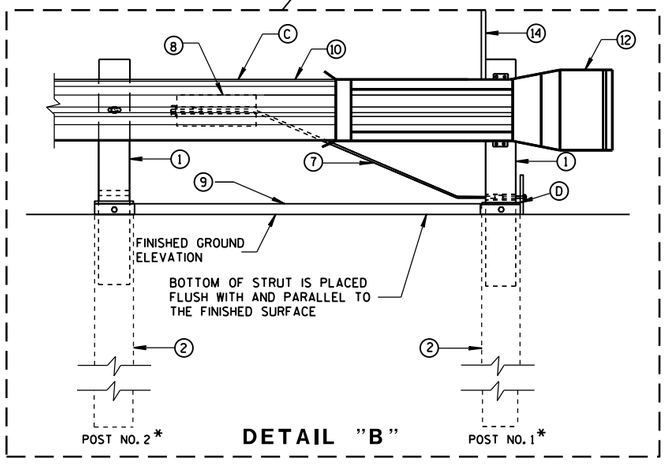
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

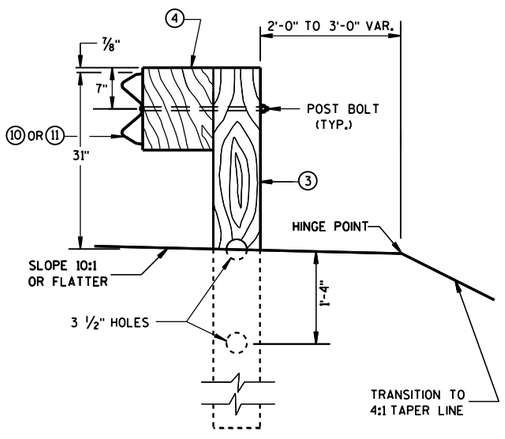
W-BEAM RAIL SPLICES ARE LOCATED AT POST NUMBER 3, AND BETWEEN POST 5 AND 6, BETWEEN POSTS 7 AND 8, AND MIDDLE OF THE SPAN AFTER POST 9.

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.

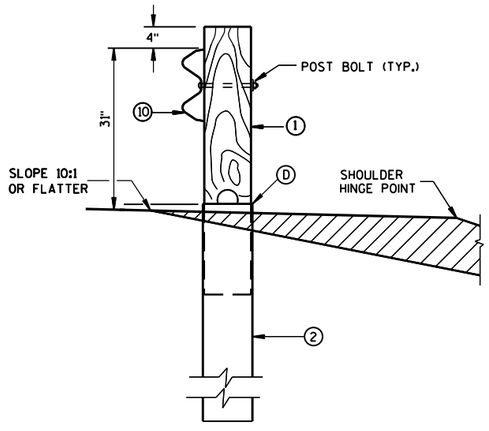




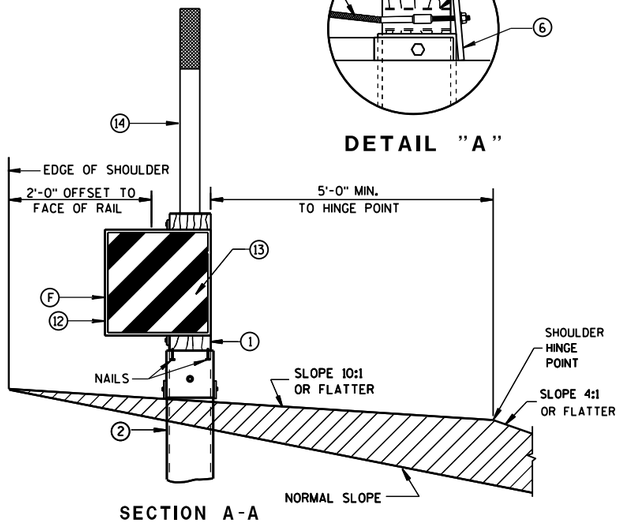




SECTION C-C
TYPICAL AT POST NOS. 3-9



SECTION B-B
TYPICAL AT POST NO. 2*



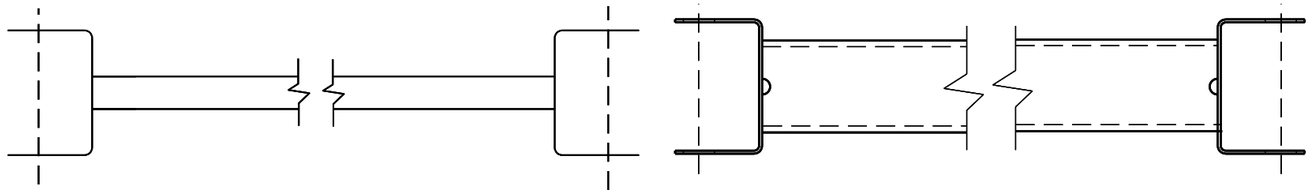
SECTION A-A
TYPICAL AT POST NO. 1*

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

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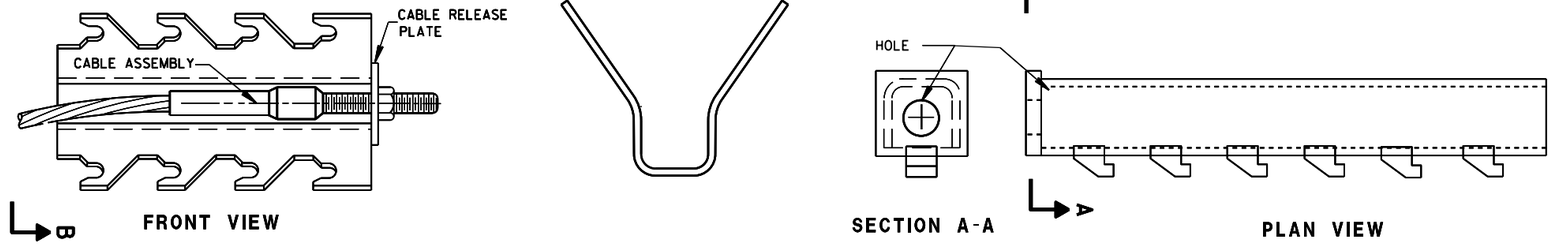
S.D.D. 14 B 44-2a



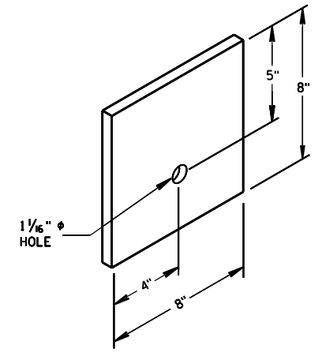
GENERIC GROUND STRUT (9) (H)

BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
(1)	WOOD BREAKAWAY POST
(2)	6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1 AND 2
(3)	WOOD CRT
(4)	WOOD BLOCKOUT
(5)	PIPE SLEEVE
(6)	BEARING PLATE
(7)	BCT CABLE ASSEMBLY
(8)	ANCHOR CABLE BOX
(9)	GROUND STRUT
(10)	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
(11)	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
(12)	END SECTION EAT
(13)	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE F PER SECTION 637 OF THE STANDARD SPECIFICATIONS
(14)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)



GENERIC ANCHOR CABLE BOX (8) (H)

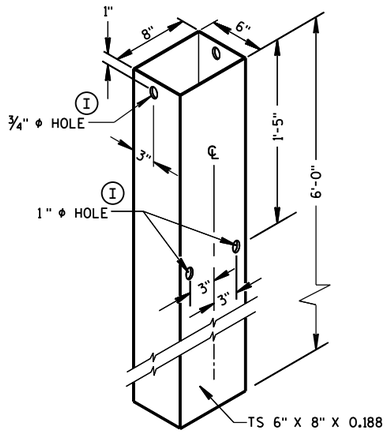


BEARING PLATE (6)

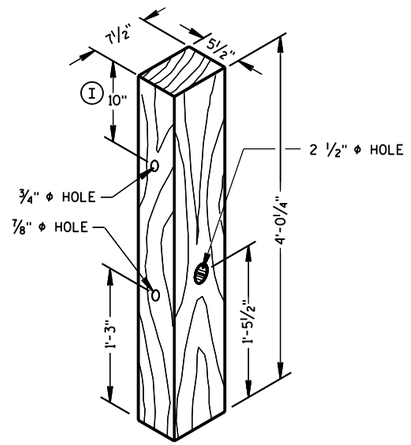
MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 14 B 44-2b

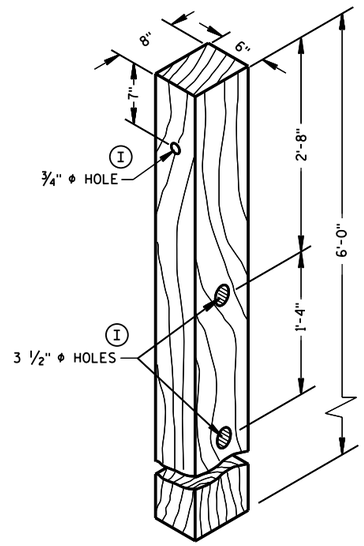


FOUNDATION TUBE (2)



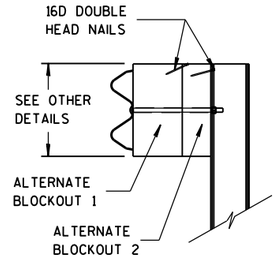
POSTS NUMBER 1 AND 2

WOOD BREAKAWAY POST (1)

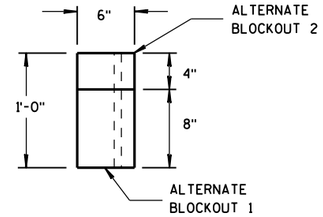


POSTS NUMBER 3-9

WOOD CRT POST (3)

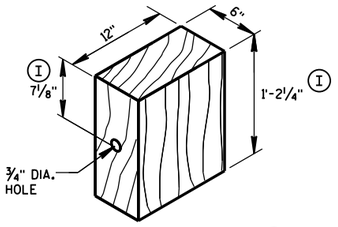


SIDE VIEW



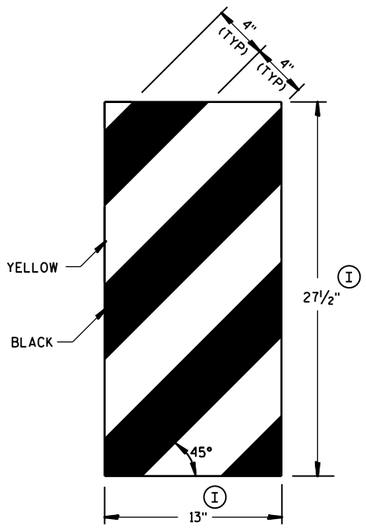
TOP VIEW

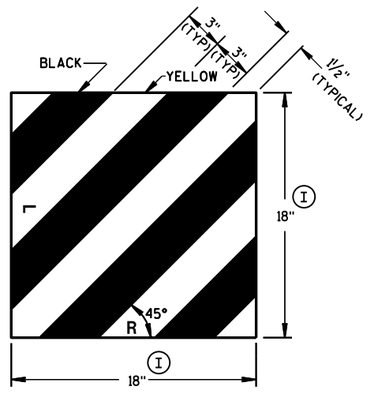
ALTERNATE WOOD BLOCKOUT DETAIL



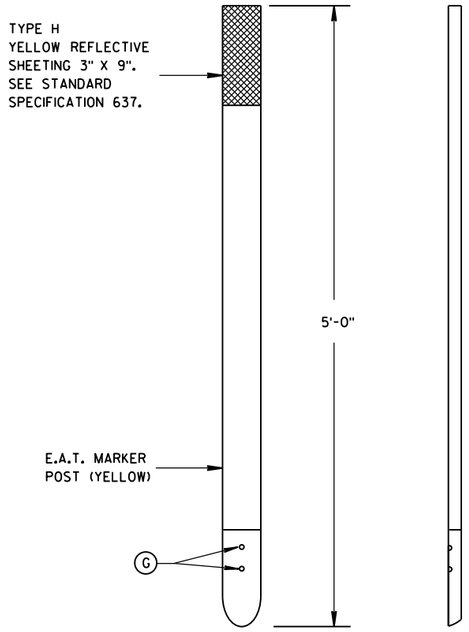
WOOD BLOCKOUT (4)

REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2





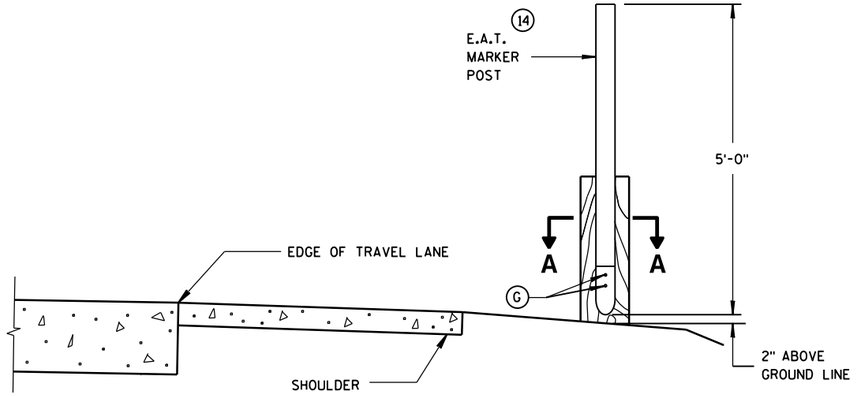
GENERIC REFLECTIVE SHEETING (13) (H)



FRONT VIEW

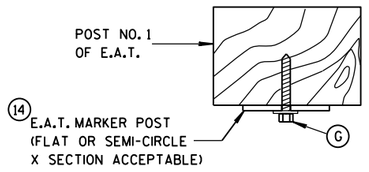
SIDE VIEW

E.A.T. MARKER POST (14)



TYPICAL INSTALLATION OF E.A.T. MARKER POST BACKSIDE OF POST NO. 1

(E.A.T. AND RAIL REMOVED FOR CLARITY)



SECTION A-A

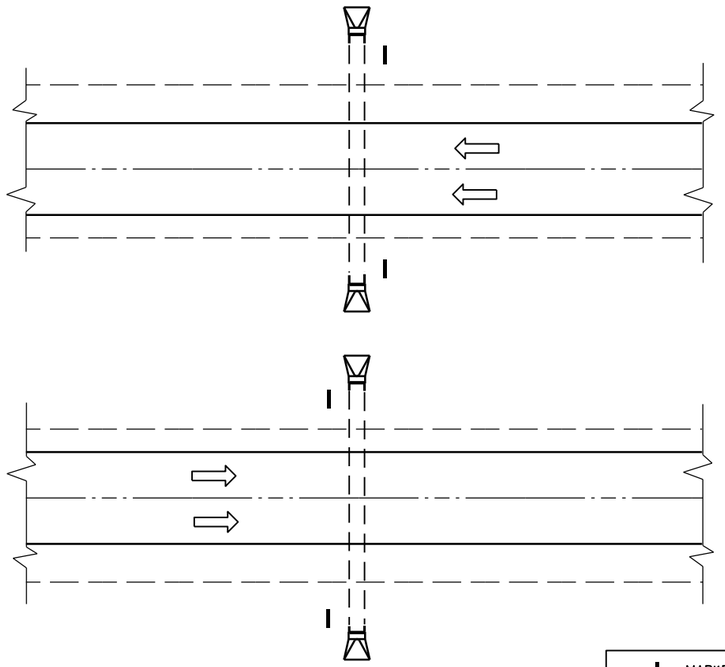
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

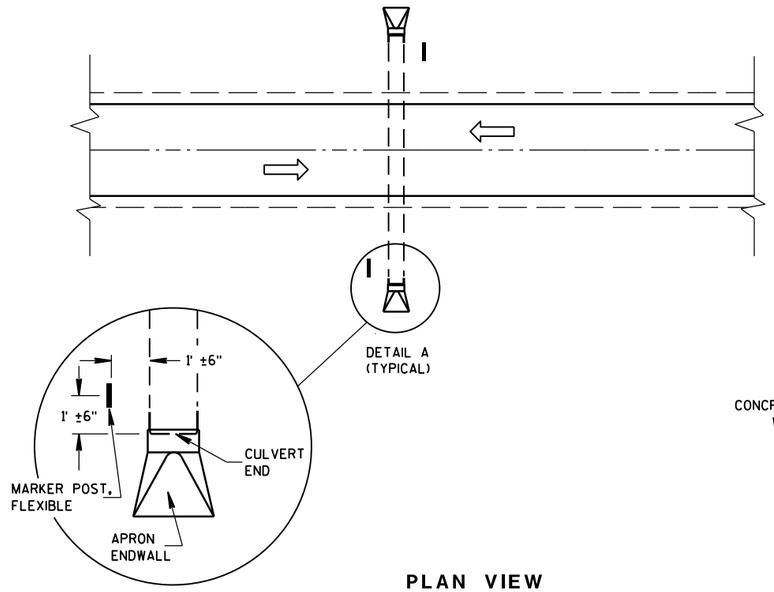
6

S.D.D. 14 B 44-2c



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

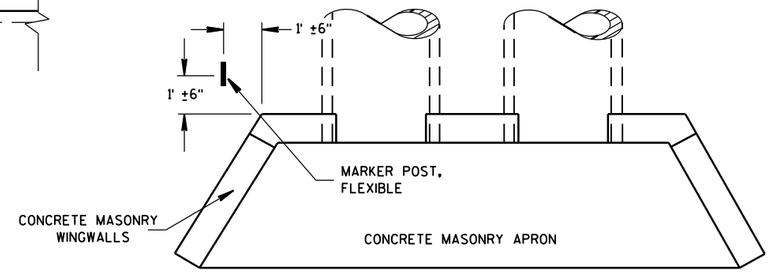
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

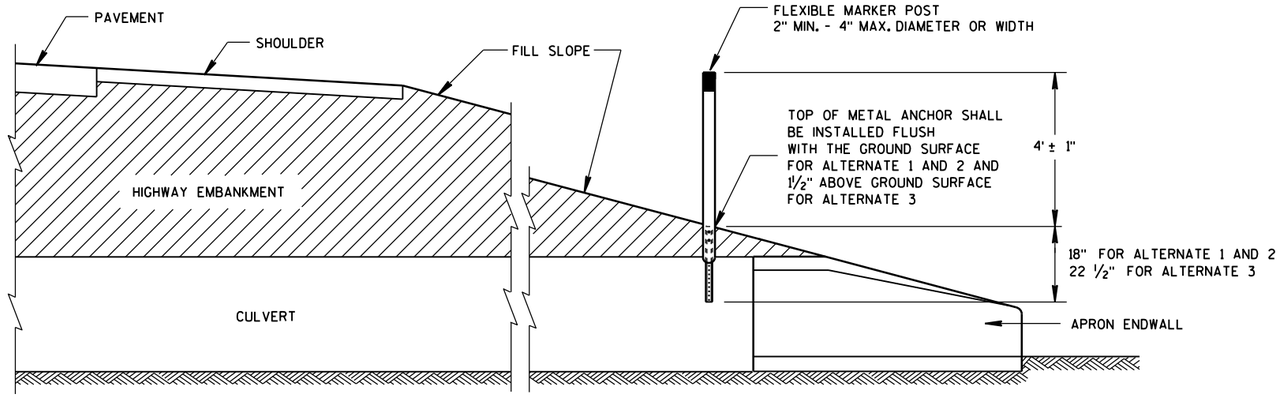
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



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

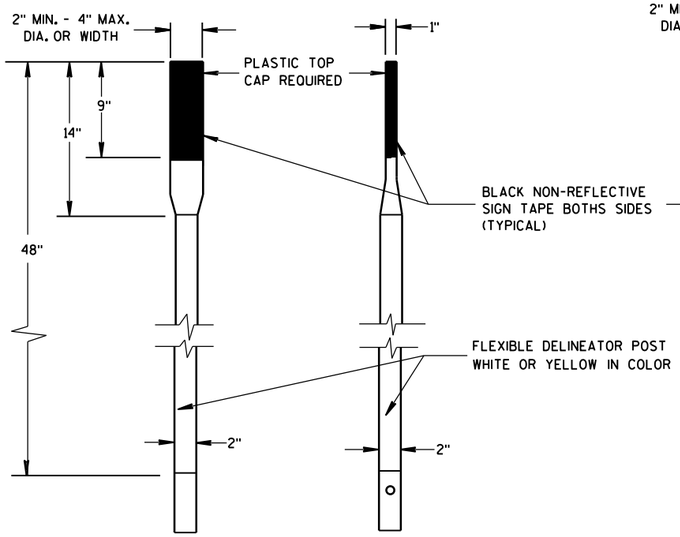
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

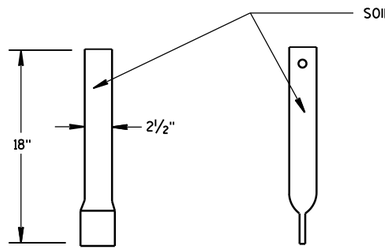
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S.D.D. 15 A 3-2a

6

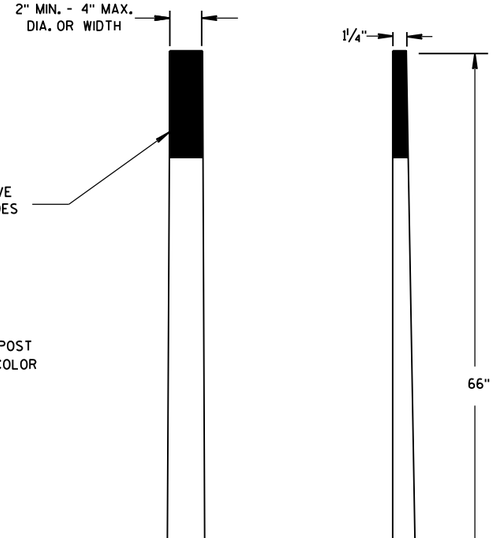
S.D.D. 15 A 3-2a





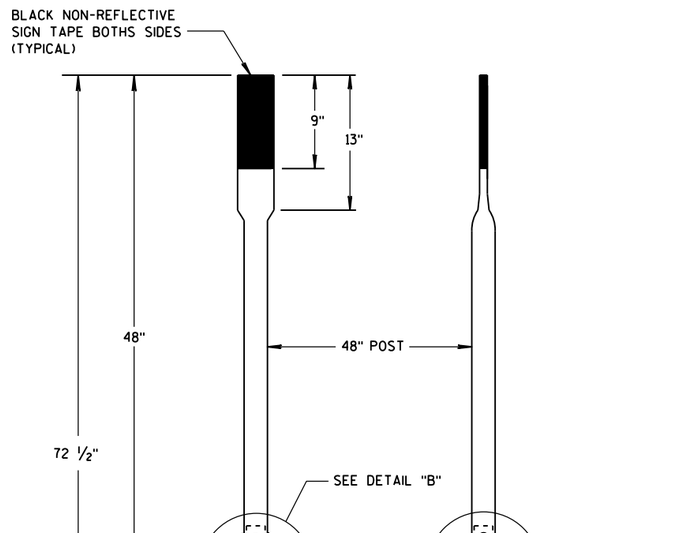
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

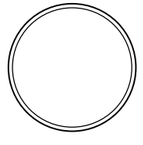
ALTERNATE 2



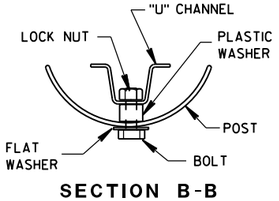
FRONT VIEW SIDE VIEW

ALTERNATE 3

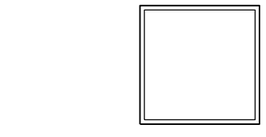
FLEXIBLE MARKER POSTS



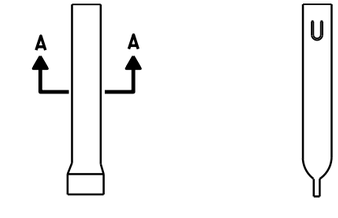
SECTION A-A



SECTION B-B

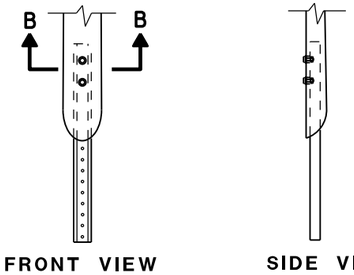


SECTION C-C



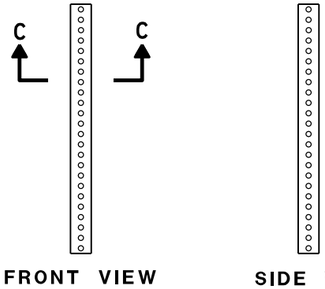
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

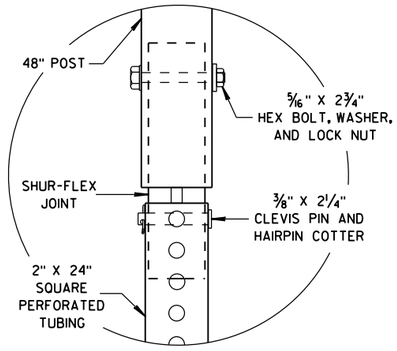
ALTERNATE 2



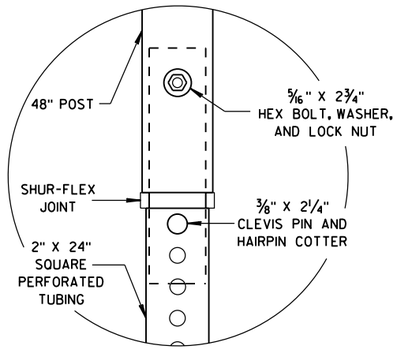
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

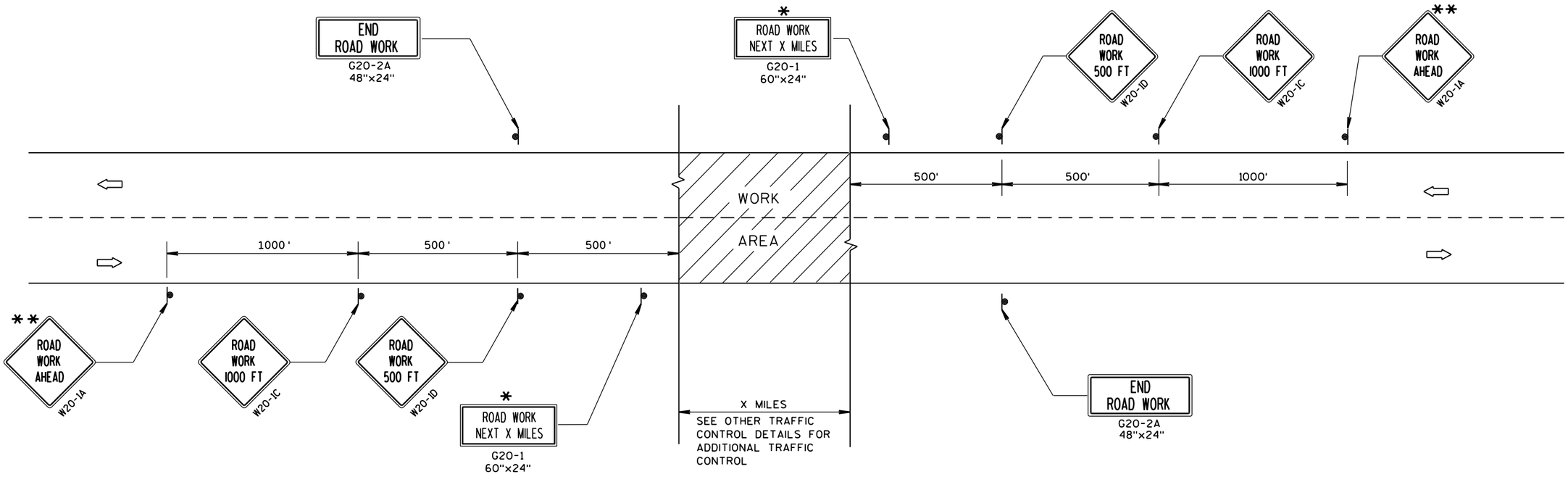
6

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.

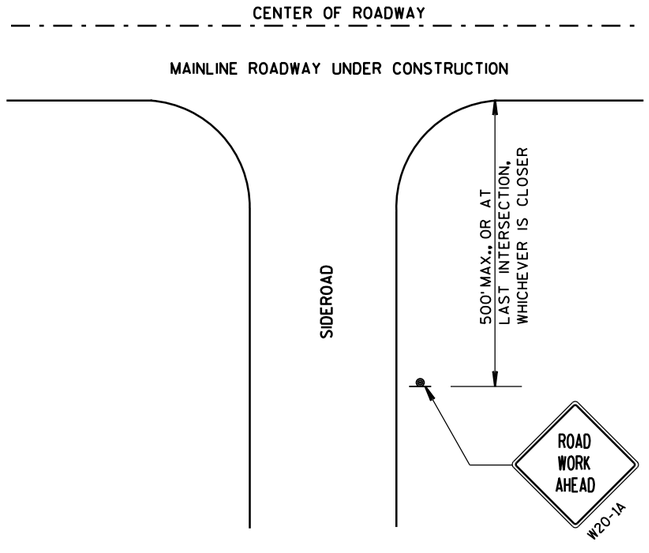
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

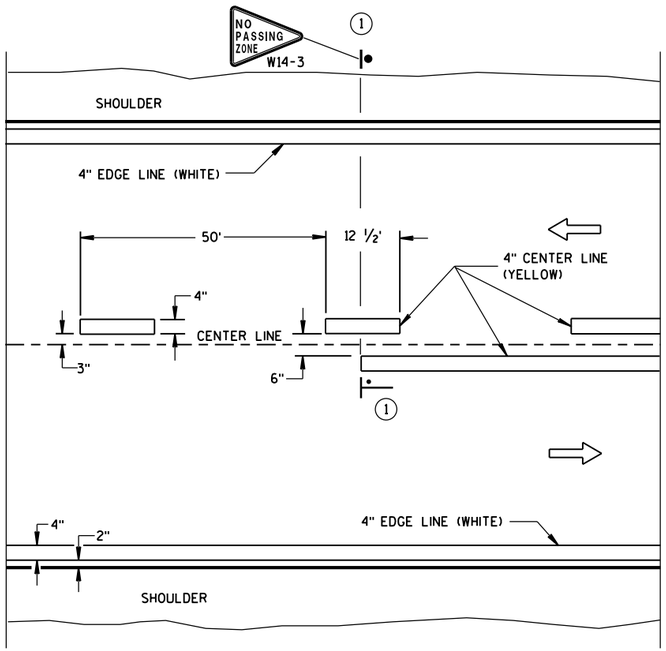
Sept. 2015 — DATE

/S/ Peter Amakobe Atepe — STATEWIDE WORK ZONE SAFETY ENGINEER

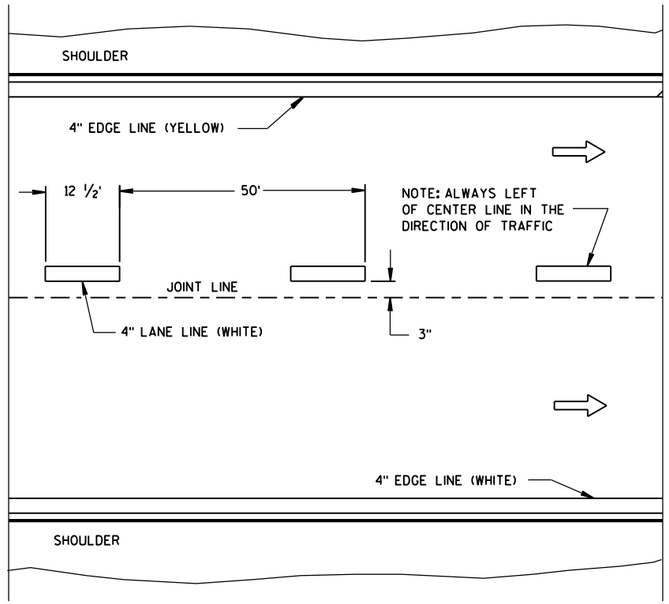
FHWA

6

S.D.D. 15 C 4-3



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) NO PASSING ZONE W14-3 SIGN SHALL BE LOCATED WITHIN 50 FEET OF THE "T" MARKING.

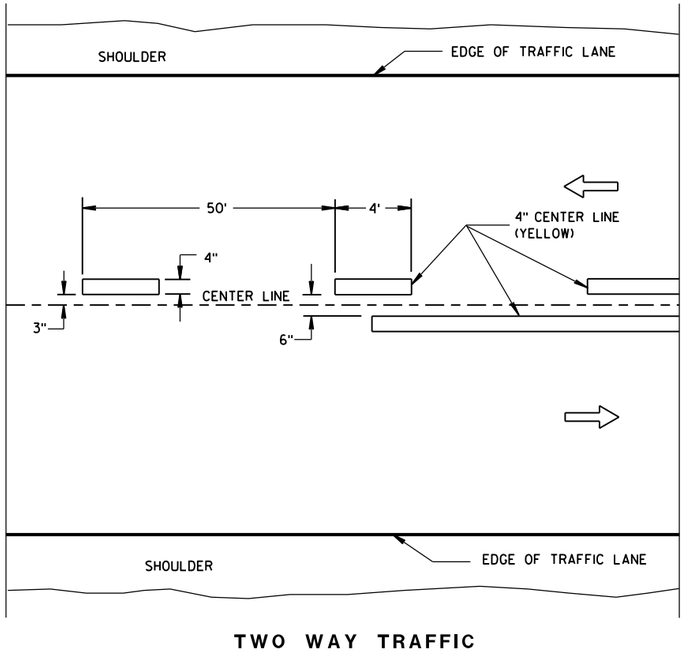
NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

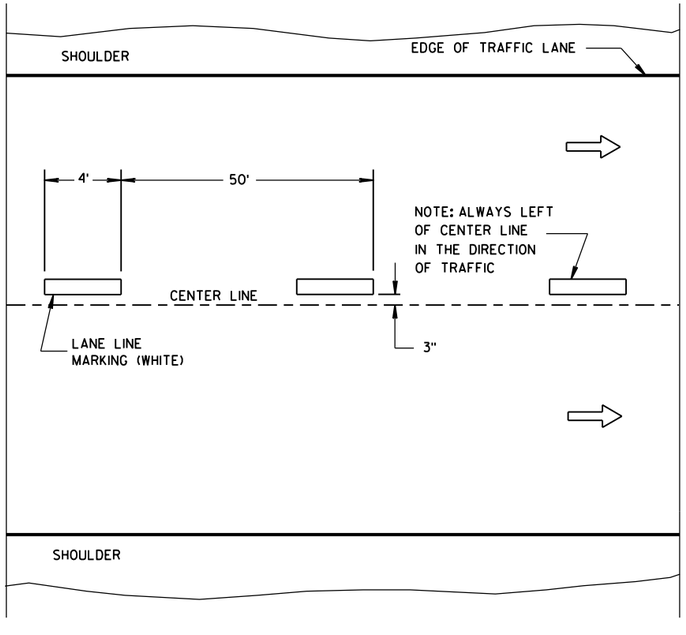
LEGEND

"T" MARKING

POST MOUNTED SIGN



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

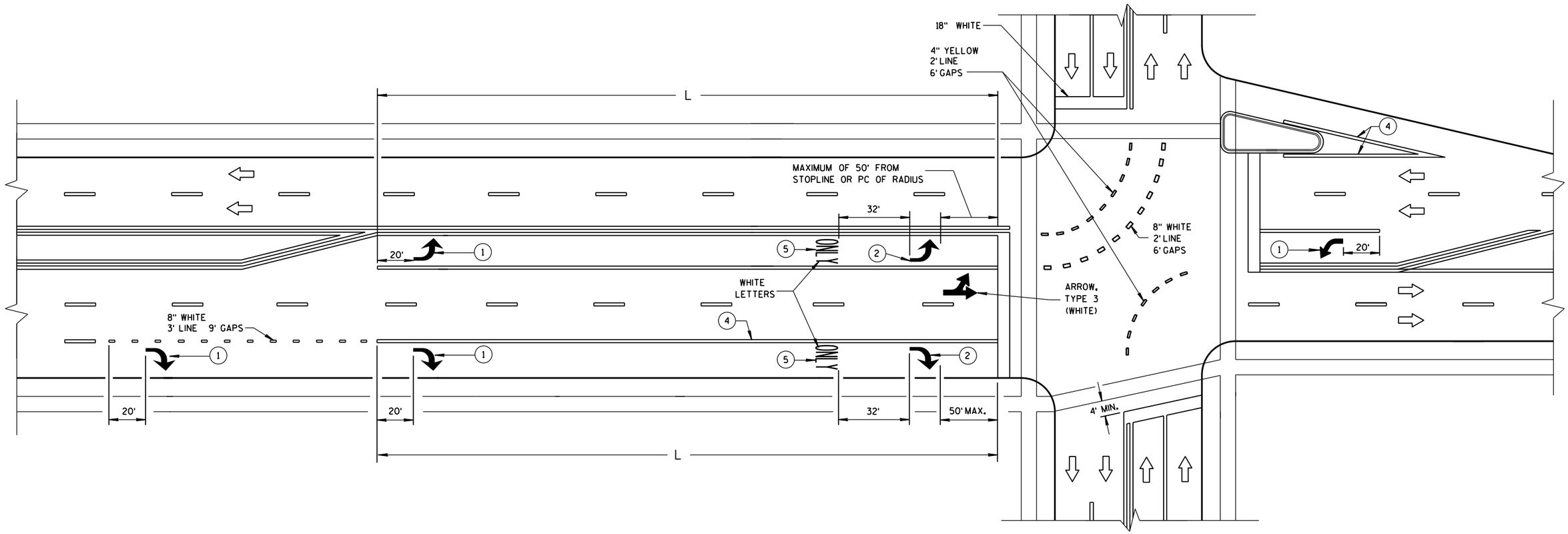
LONGITUDINAL MARKING (MAINLINE)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
Sept., 2016	/S/ Matthew R. Rauch
DATE	STATE SIGNING AND MAR ENGINEER
FHWA	

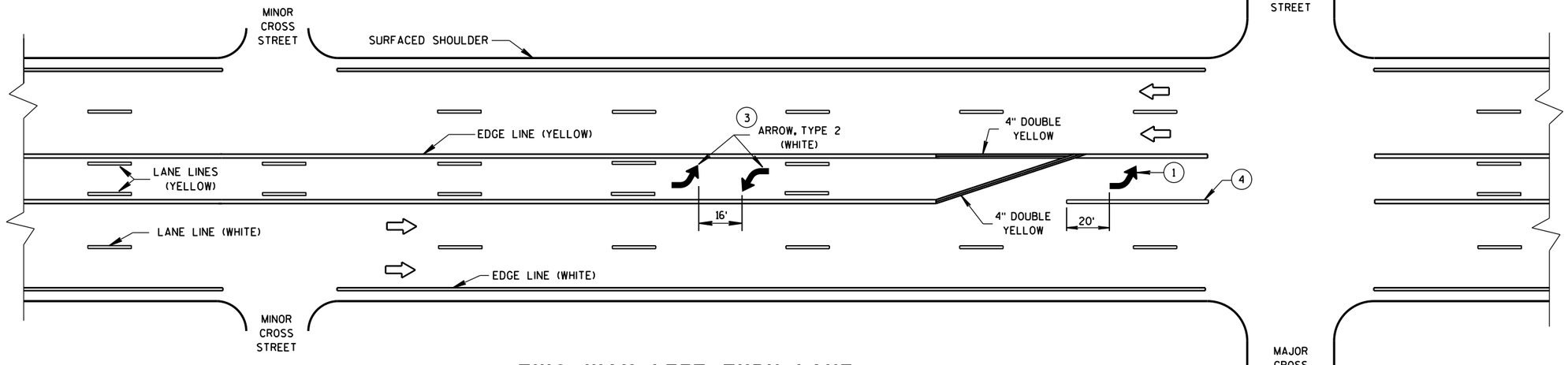
6

S.D.D. 15 C 8-17a

6

S.D.D. 15 C 8-17a





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 TRANSPOI

6

S.D.D. 15 C 8-17b

LEGEND

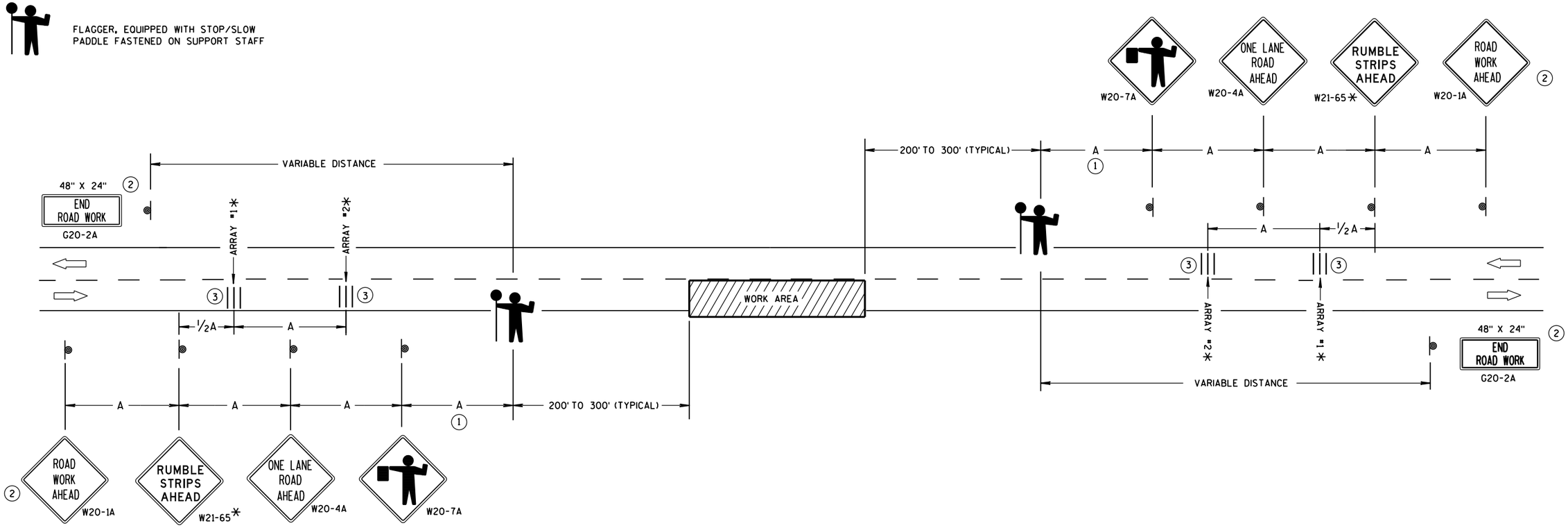
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

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.



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.

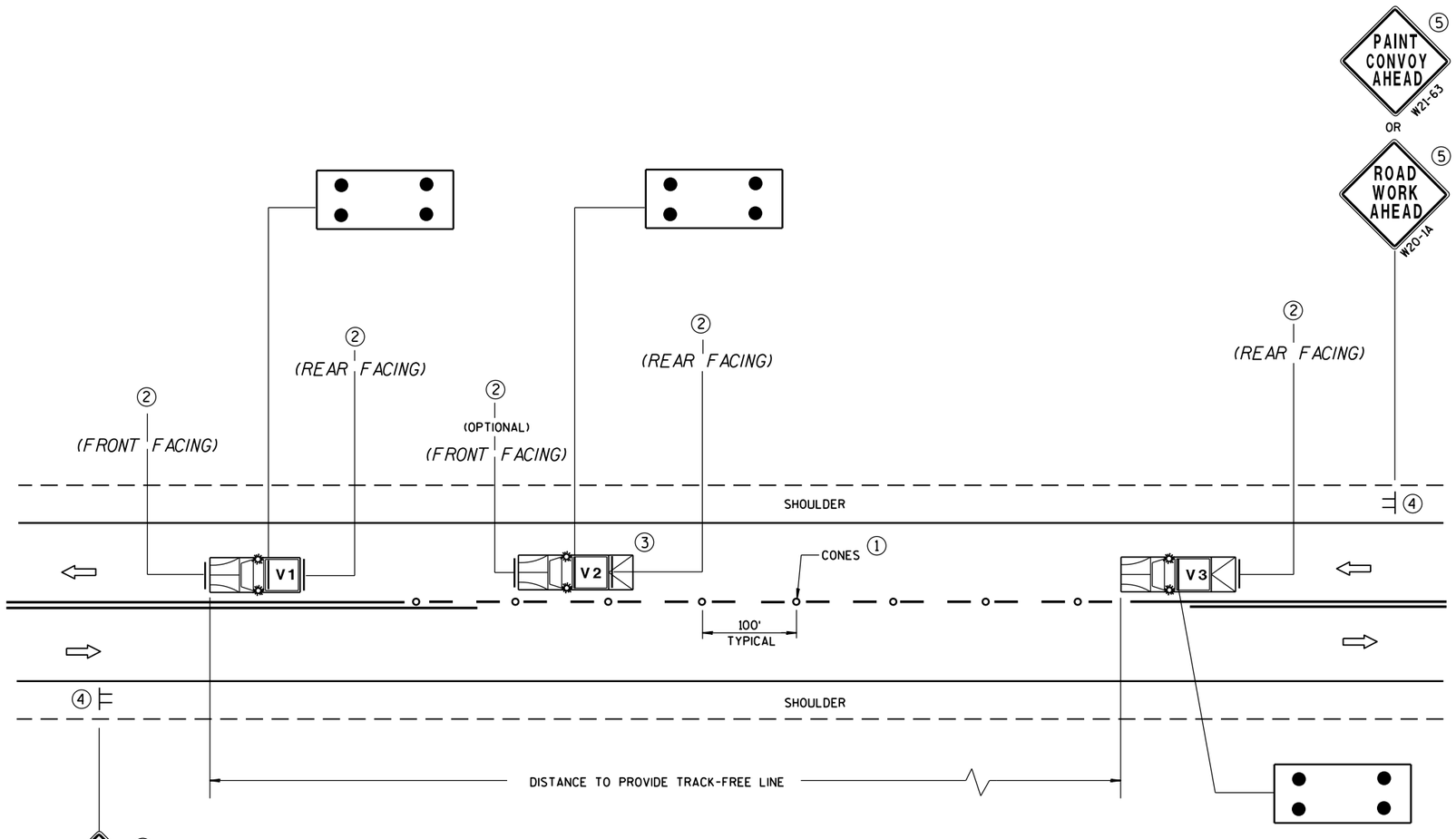
(3) EACH TEMPORARY RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December, 2016 — /S/ Andrew Heldtke
DATE — WORK ZONE ENG
FHWA

6
S.D.D. 15 C 12-5



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

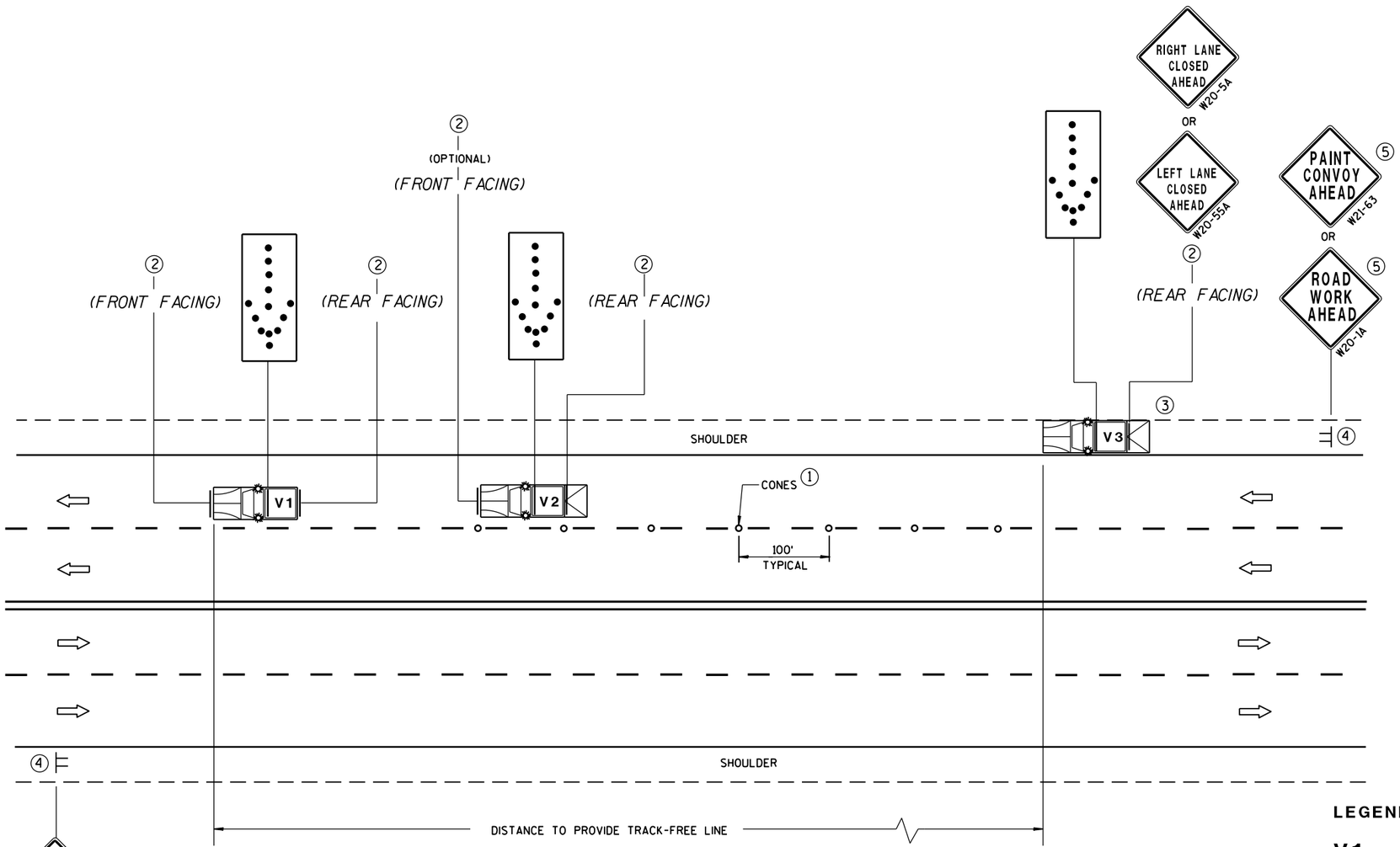
APPROVED
June 2016 — DATE
/S/ Peter Amakobe Atepe — STATEWIDE WORK ZON SAFETY ENGINE
FHWA

6

S.D.D. 15 C 19-4a

6

S.D.D. 15 C 19-4a



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)

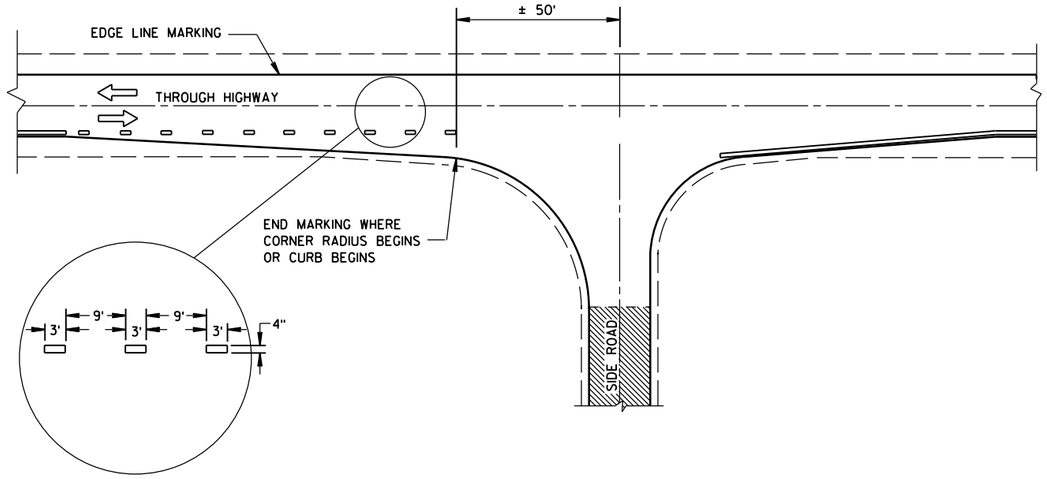
MOVING PAVEMENT MARKING OPERATION
MULTI-LANE UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016 — DATE
/S/ Peter Amakobe Atepe — STATEWIDE WORK ZON SAFETY ENGINE
FHWA

6

S.D.D. 15 C 19-4b



MINOR INTERSECTION WITHOUT CURBS

GENERAL NOTES

EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.

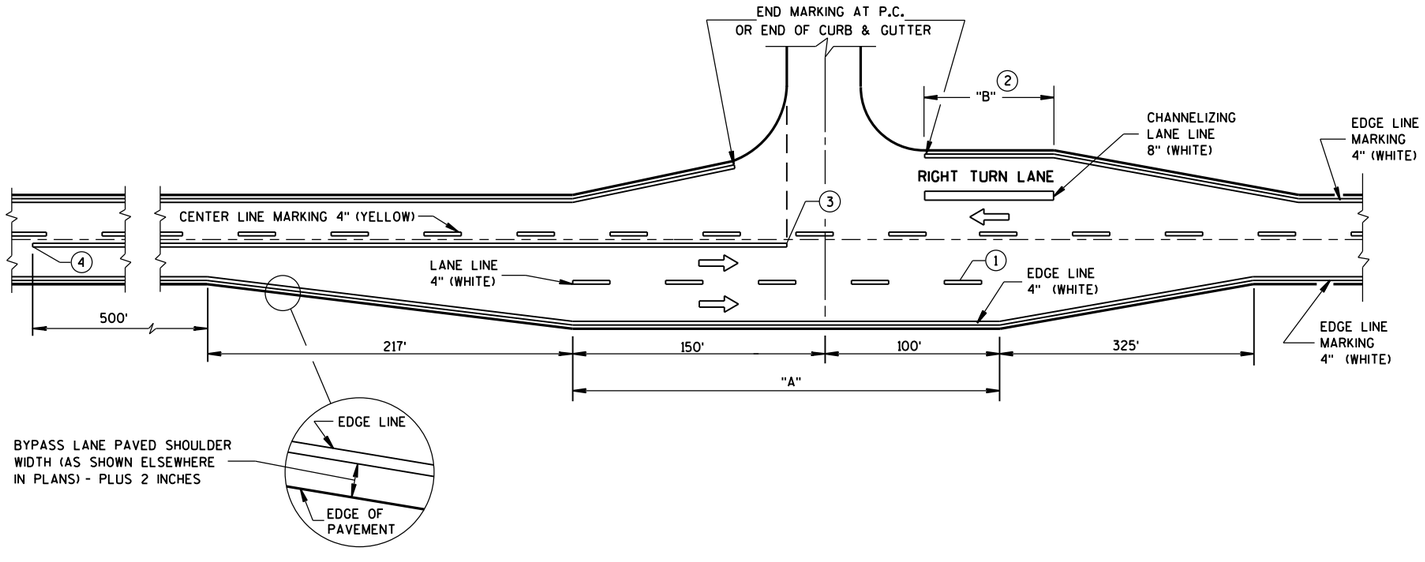
(1) WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.

(2) WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.

(3) 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

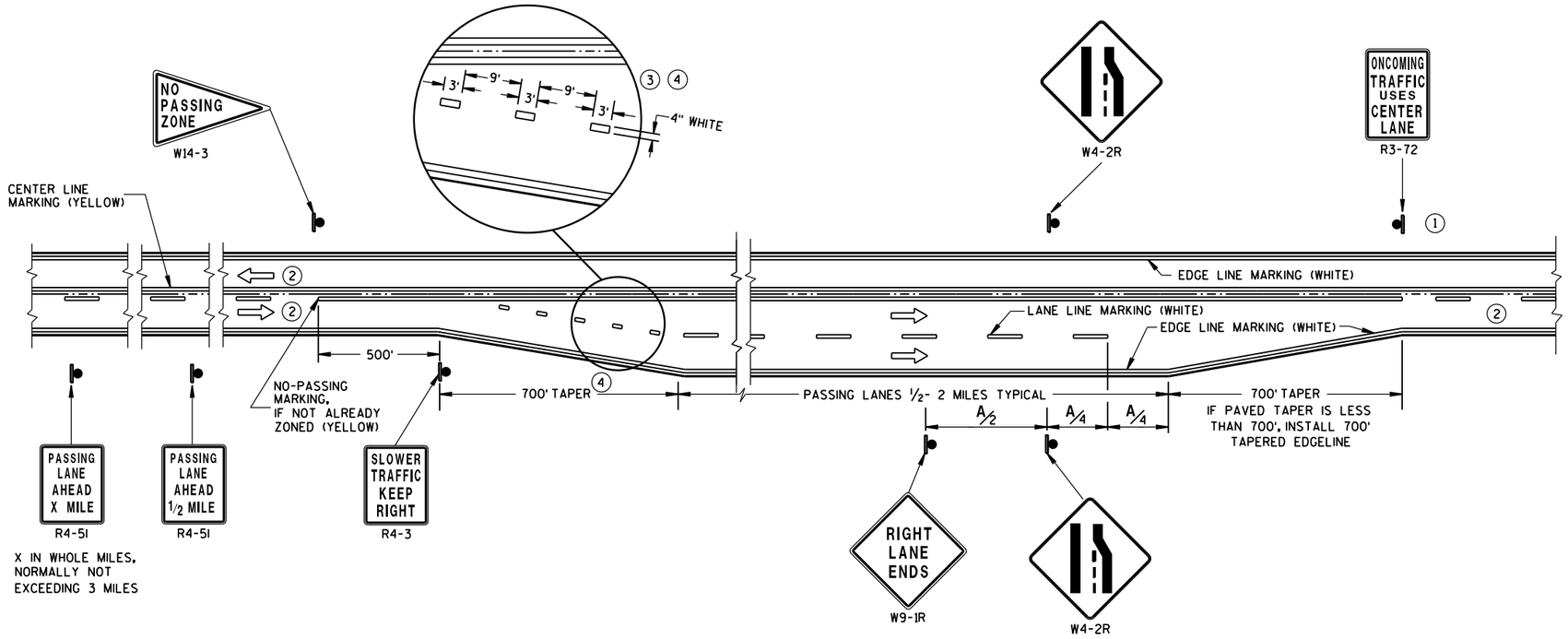
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)

PAVEMENT MARKING
(INTERSECTIONS)

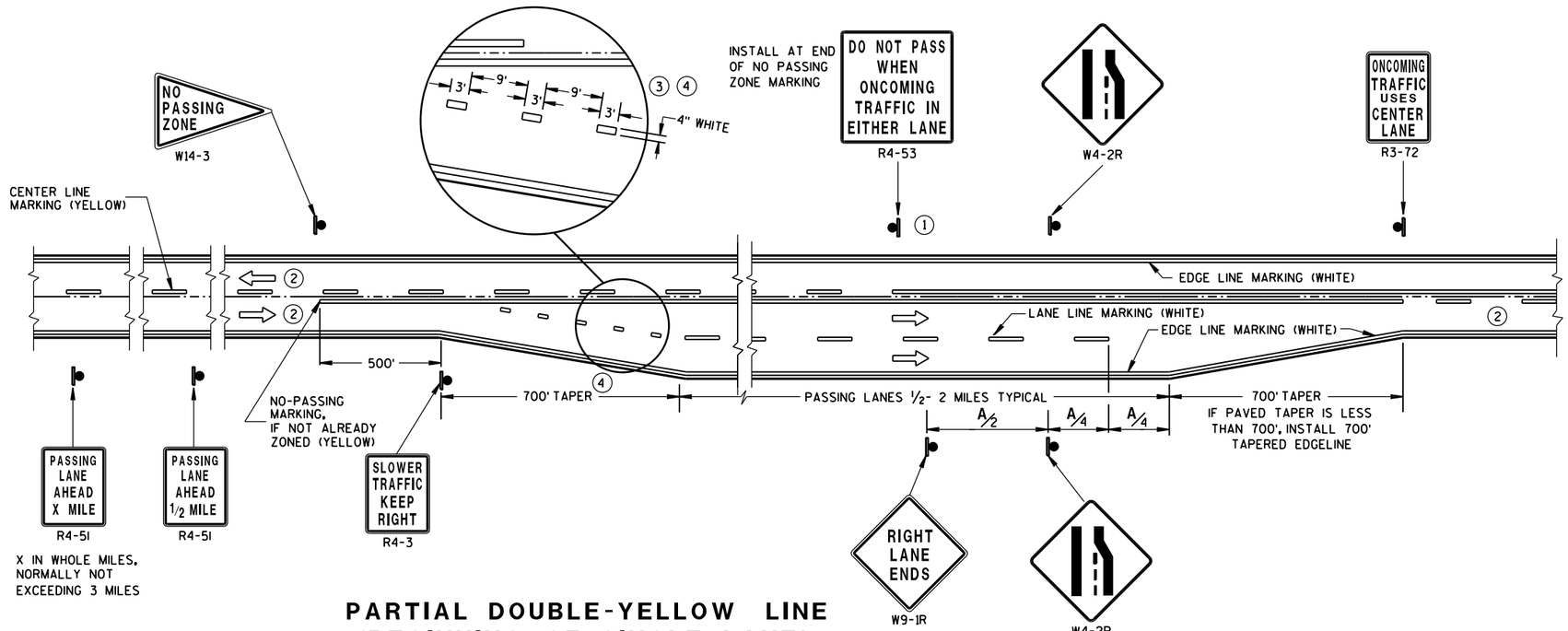
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 15 C 35-1a



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.
3. THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3'LINE 9'GAP, EXCEPT RETRACE THE EXISTING LINE-GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
4. WHEN THE ENTRANCE TAPER IS LESS THAN 700 FEET OR THE SHOULDER WIDTH IN THE PASSING/CLIMBING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

DISTANCE TABLE

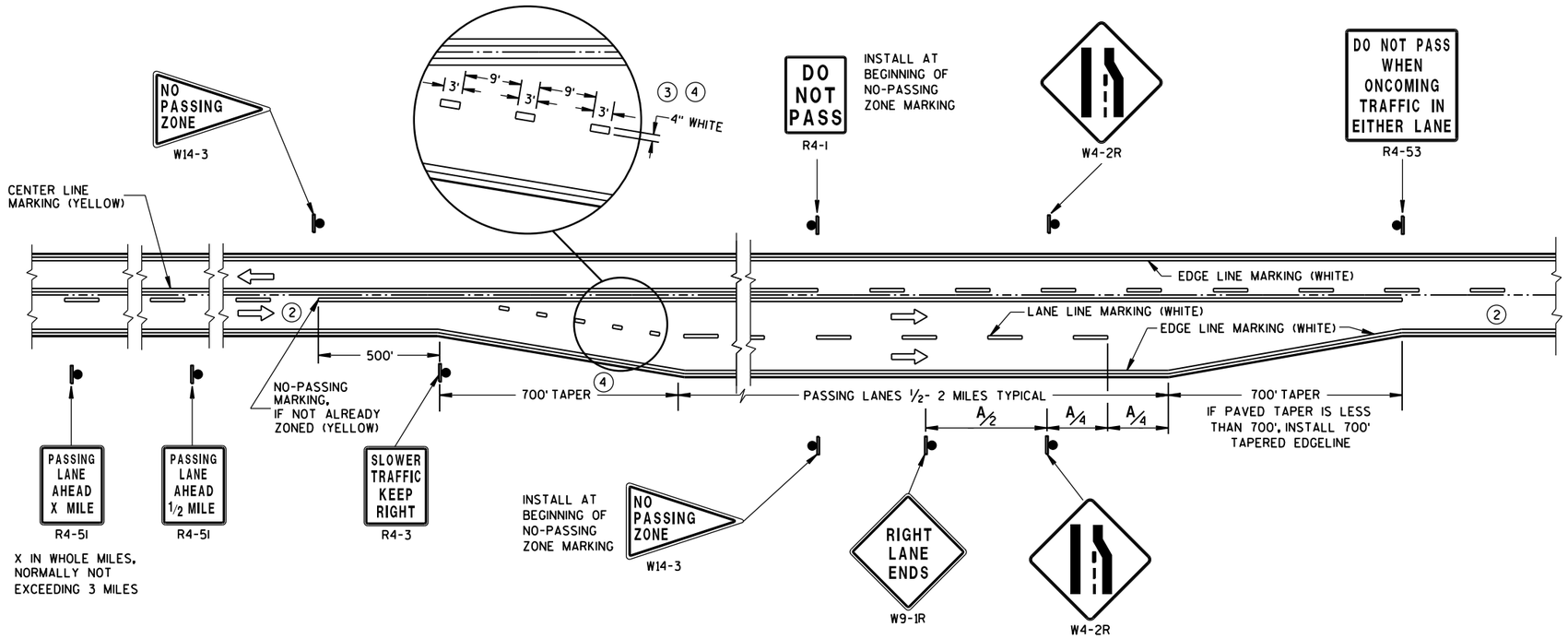
POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	750
50	850
55	950

PAVEMENT MARKING & SIGNING (CLIMBING LANE & PASSING LANE)

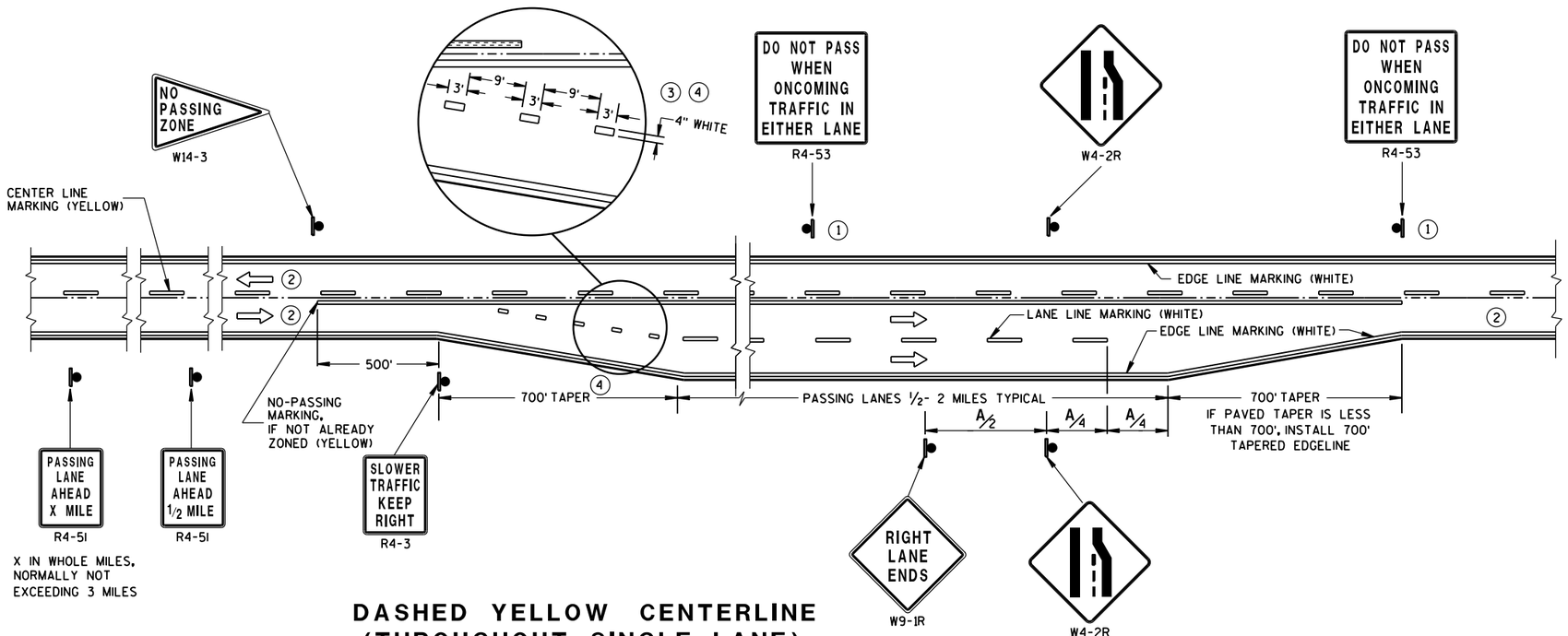
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 15 C 35-1b



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.
3. THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3'LINE 9'GAP, EXCEPT RETRACE THE EXISTING LINE-GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
4. WHEN THE ENTRANCE TAPER IS LESS THAN 700 FEET OR THE SHOULDER WIDTH IN THE PASSING/CLIMBING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	750
50	850
55	950

PAVEMENT MARKING & SIGNING (CLIMBING LANE & PASSING LANE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MAR[illegible] ENGINEER
FHWA

6

S.D.D. 15 C 35-1c

GENERAL NOTES

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

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

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

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

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

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

TABLE A

S \ W	SHOULDER TAPER LENGTH (FEET) 4	6	8	10	BUFFER SPACE (FEET)
30	20	30	40	50	200
35	30	45	55	70	250
40	40	55	75	90	305
45	60	90	120	150	360
50	70	100	135	170	425
55	75	110	150	185	495

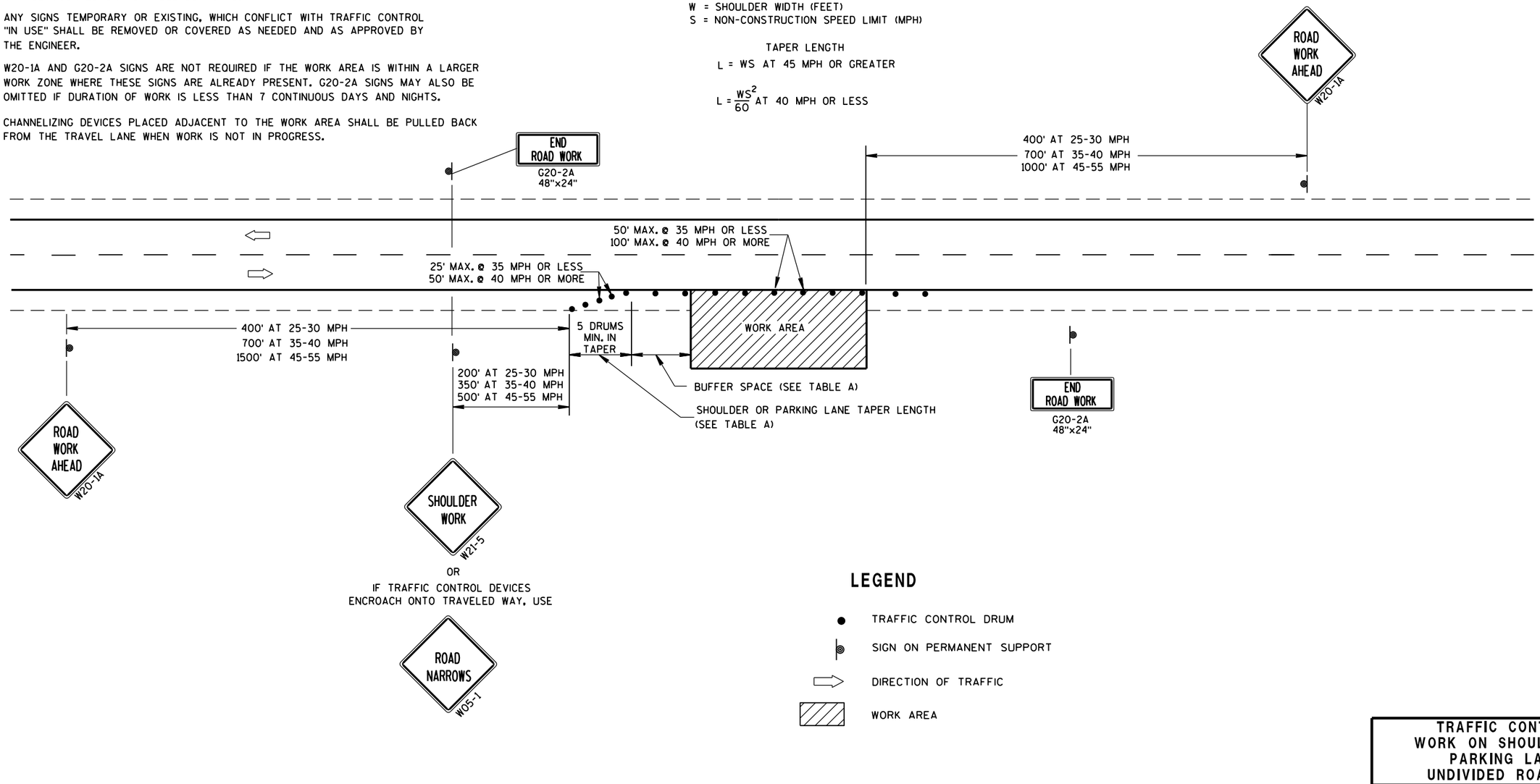
W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

TAPER LENGTH

L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

SHOULDER TAPER LENGTH = $\frac{1}{3}L$



LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

July 14, 2015 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO[illegible] SAFETY ENGI[illegible]

FHWA

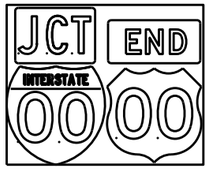
6

S.D.D. 15 D 28-3

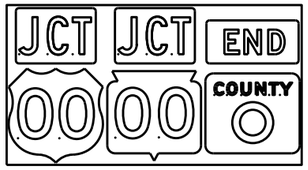
TYPICAL ASSEMBLIES



J1-1



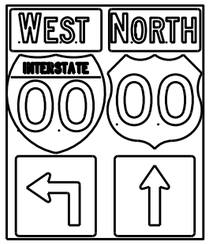
J1-2



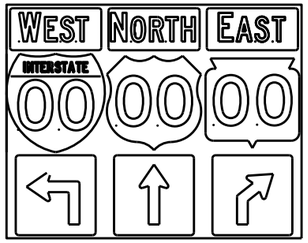
J1-3



J2-1



J2-2

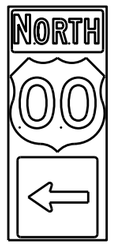


J2-3

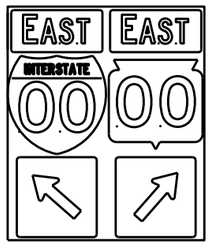


JV

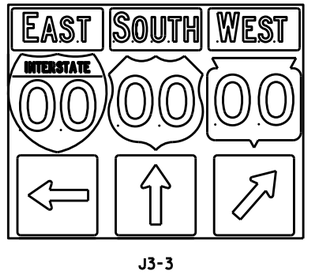
(Typical Vertical J-Assembly
See Note 10 and 11)



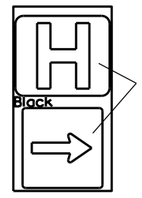
J3-1



J3-2



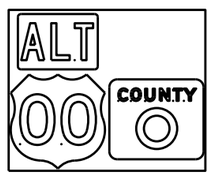
J3-3



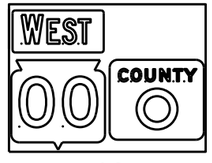
JH-1



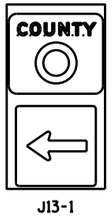
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1

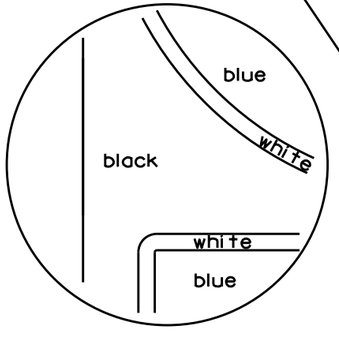


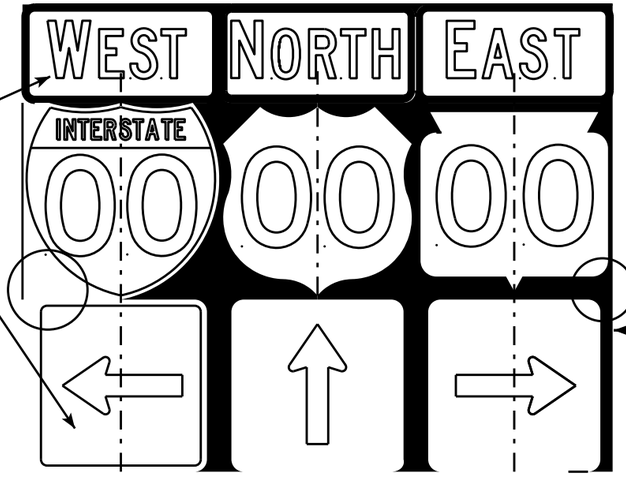
J23-1

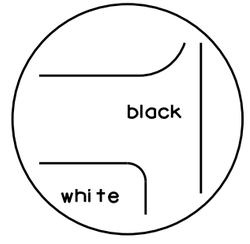


J22-1

[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

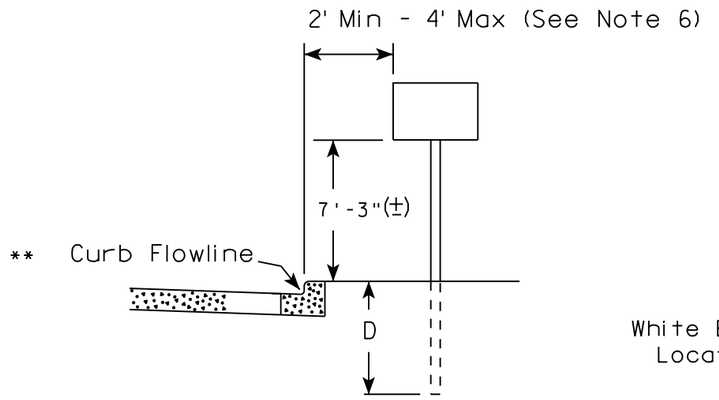
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/06/14 PL... A2-1S.8

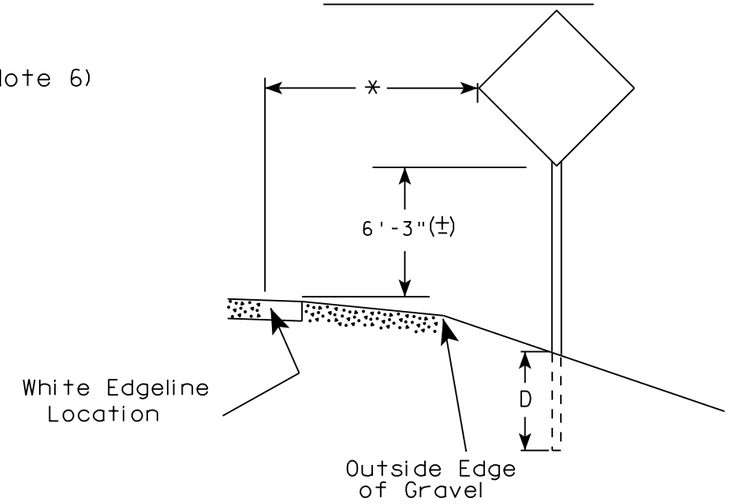
PROJECT NO: SHEET NO: E

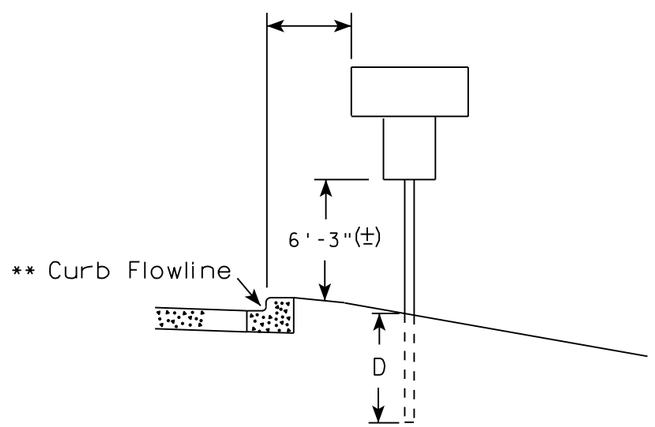
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A21S.DGN PLOT DATE : 06-FEB-2014 14:10 PLOT BY : mscsja PLOT NAME :
WISDOT/CADDS SHEET 42

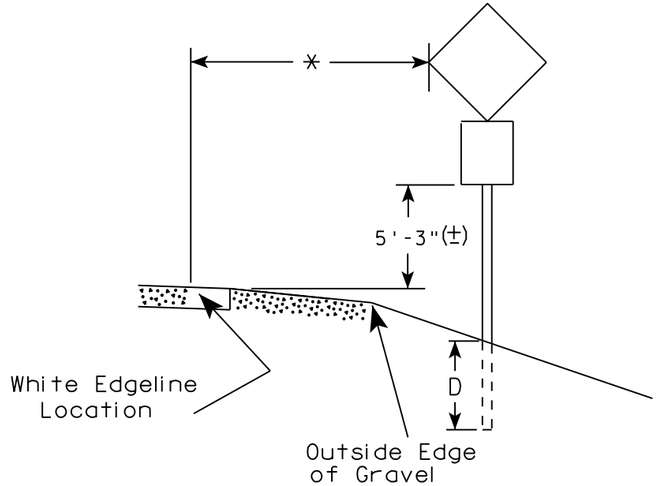
URBAN AREA



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" (±).

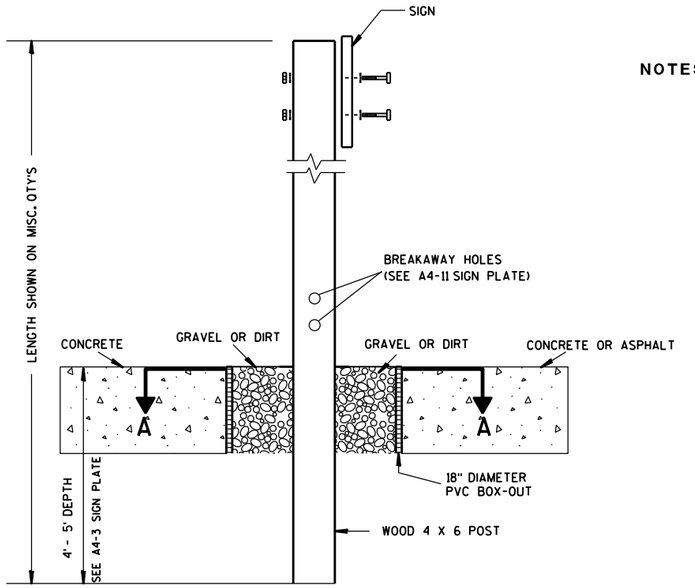
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-3.21

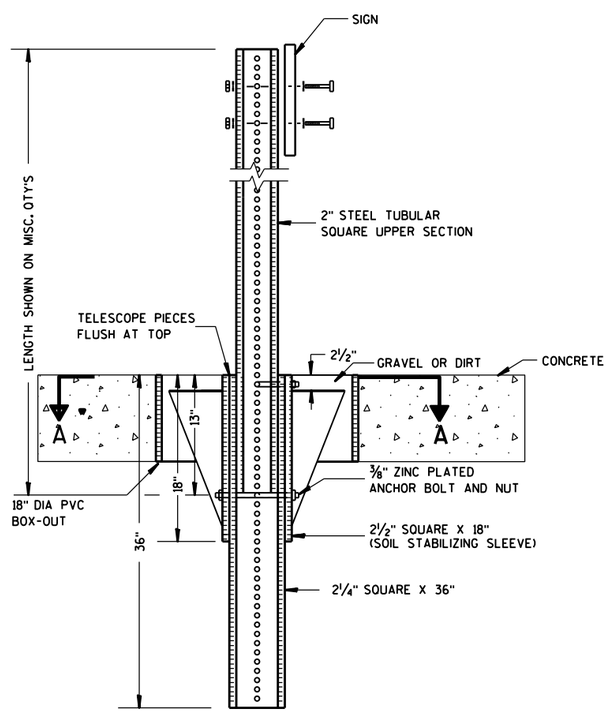
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 123	E



ELEVATION VIEW

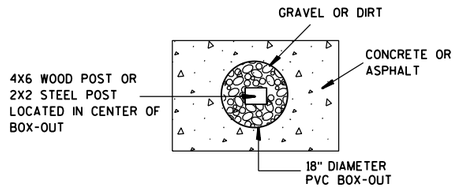
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

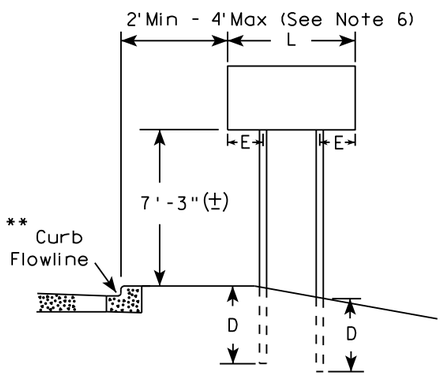
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

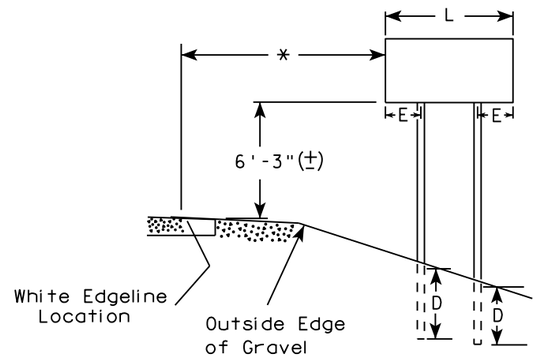
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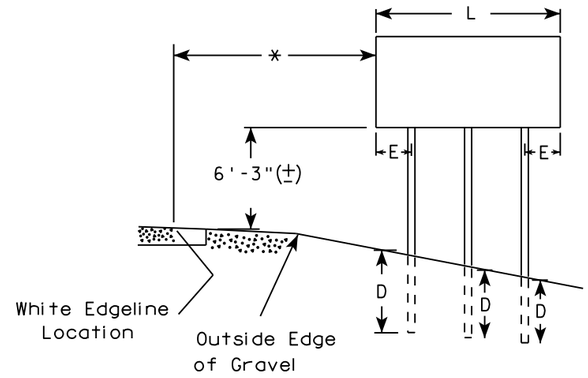
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

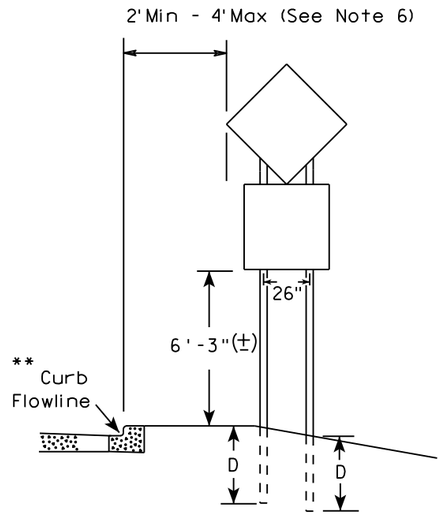
URBAN AREA



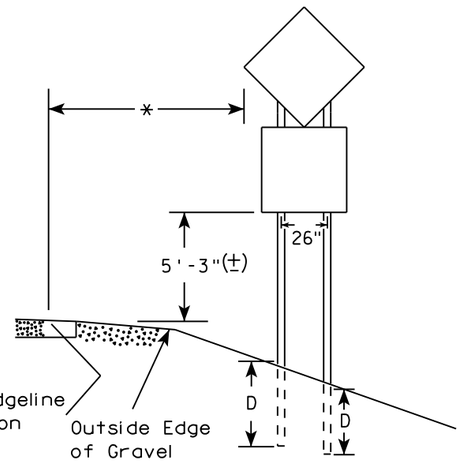
RURAL AREA (See Note 3)







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'

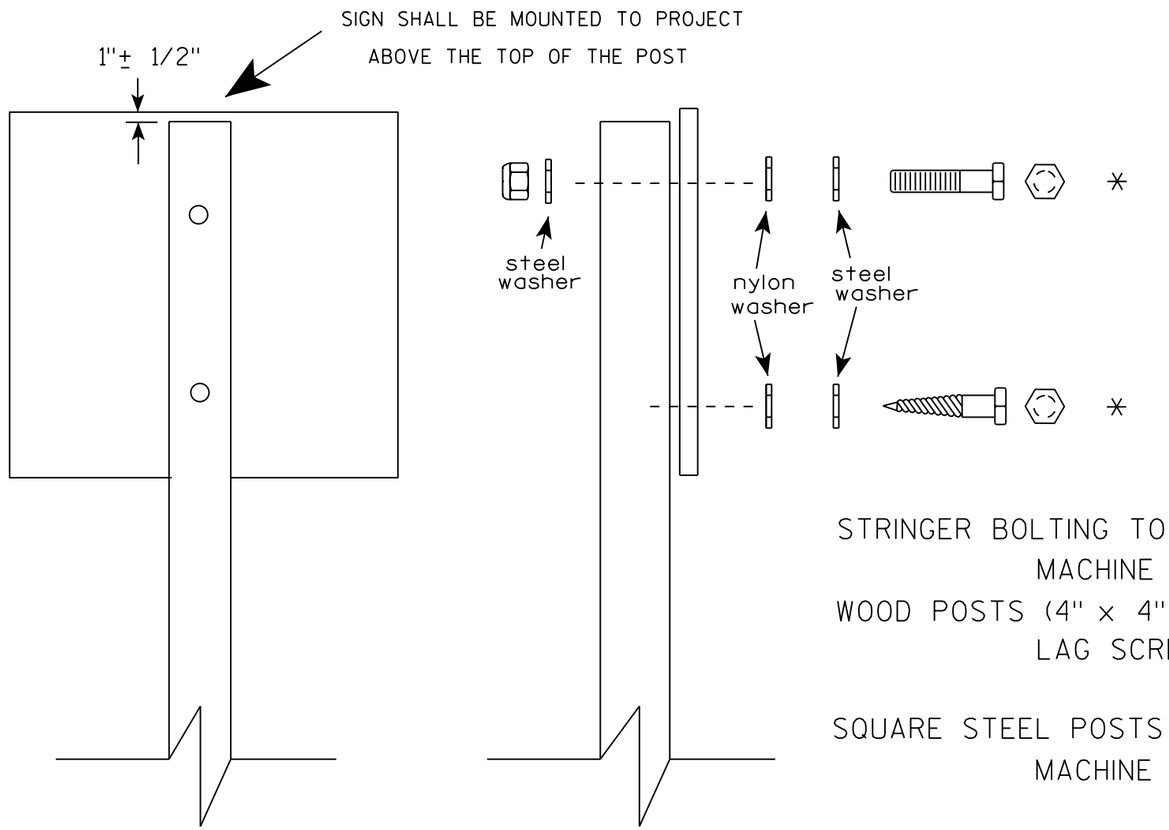
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

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: 125	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

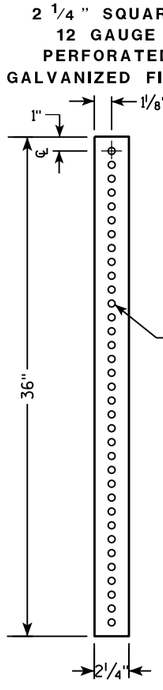
7

PROJECT NO: SHEET NO: E

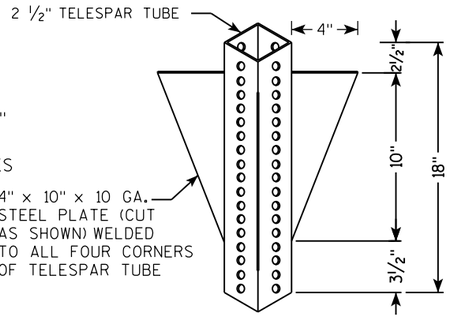
FILE NAME : C:\CADfiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 11-AUG-2016 11:35 PLOT BY : $$ plotuser $$

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

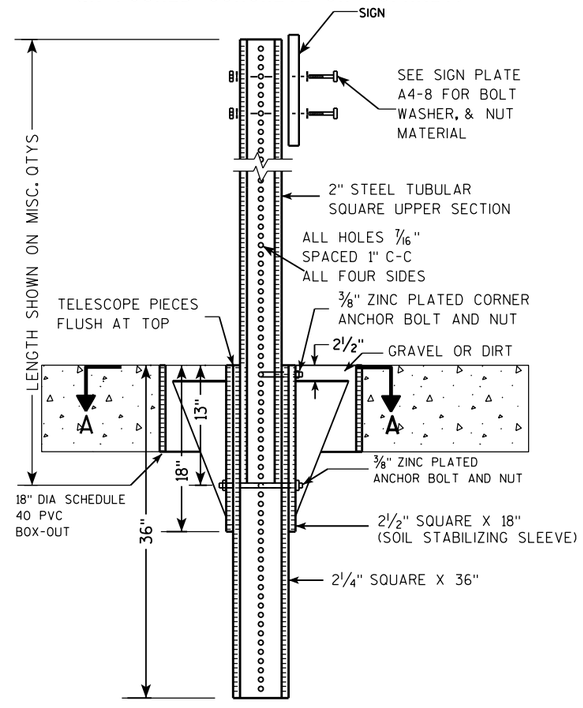
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



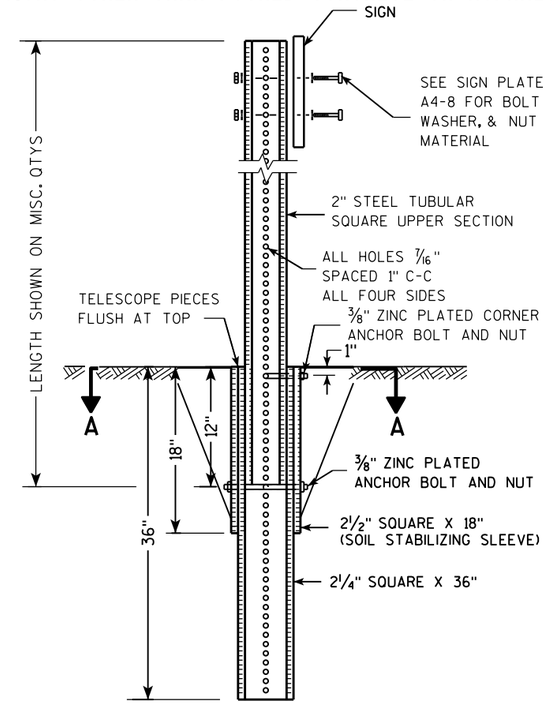
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

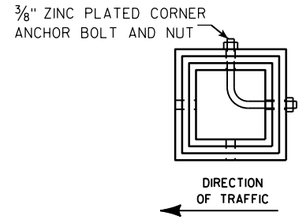


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL
SIGN POST
A4-9

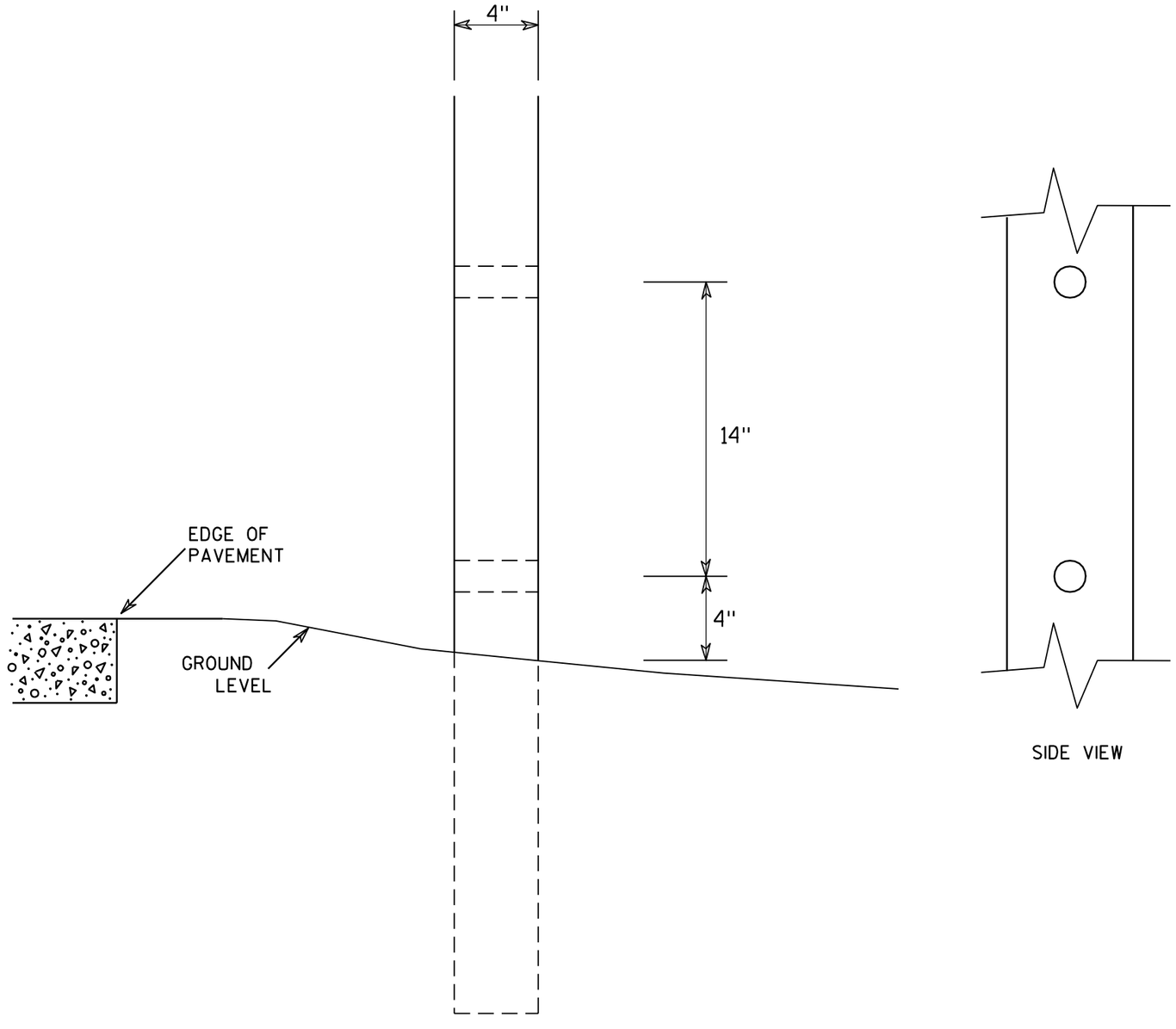
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE : 05-FEB-2015 17:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

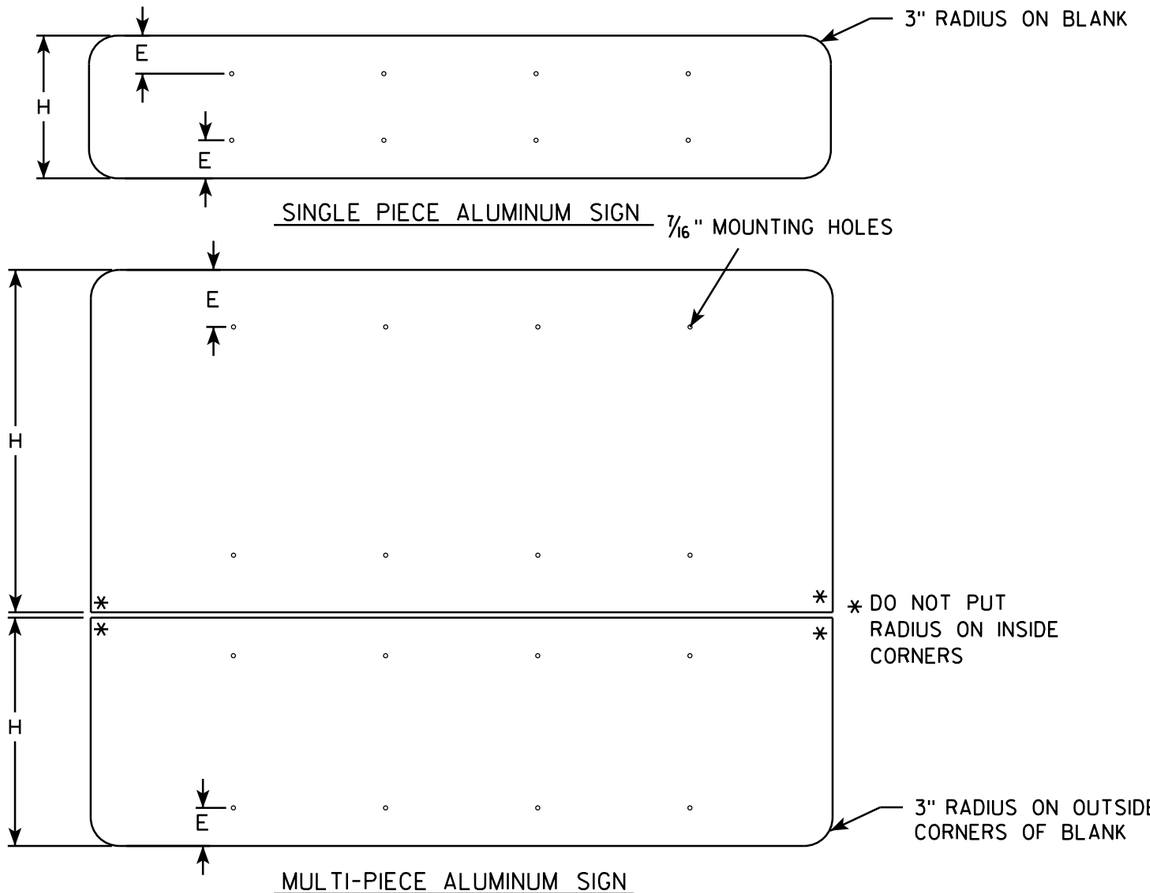
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

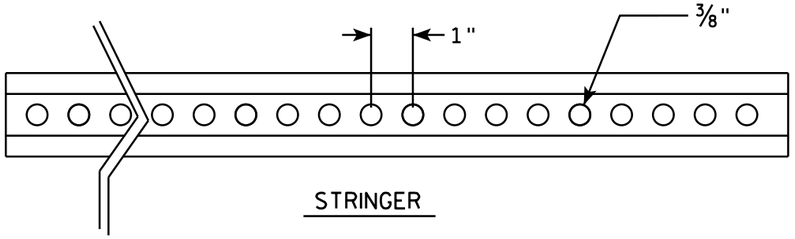
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 128	E



GENERAL NOTES

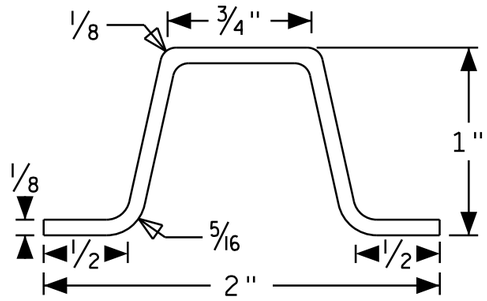
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 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"

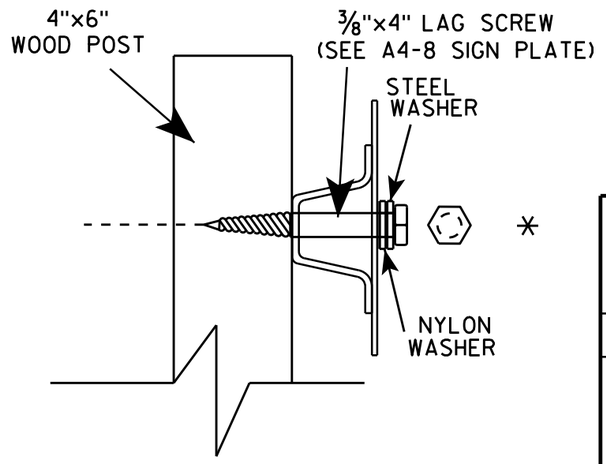


STRINGER

CROSS SECTION VIEW OF CHANNEL



POST MOUNTING



SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

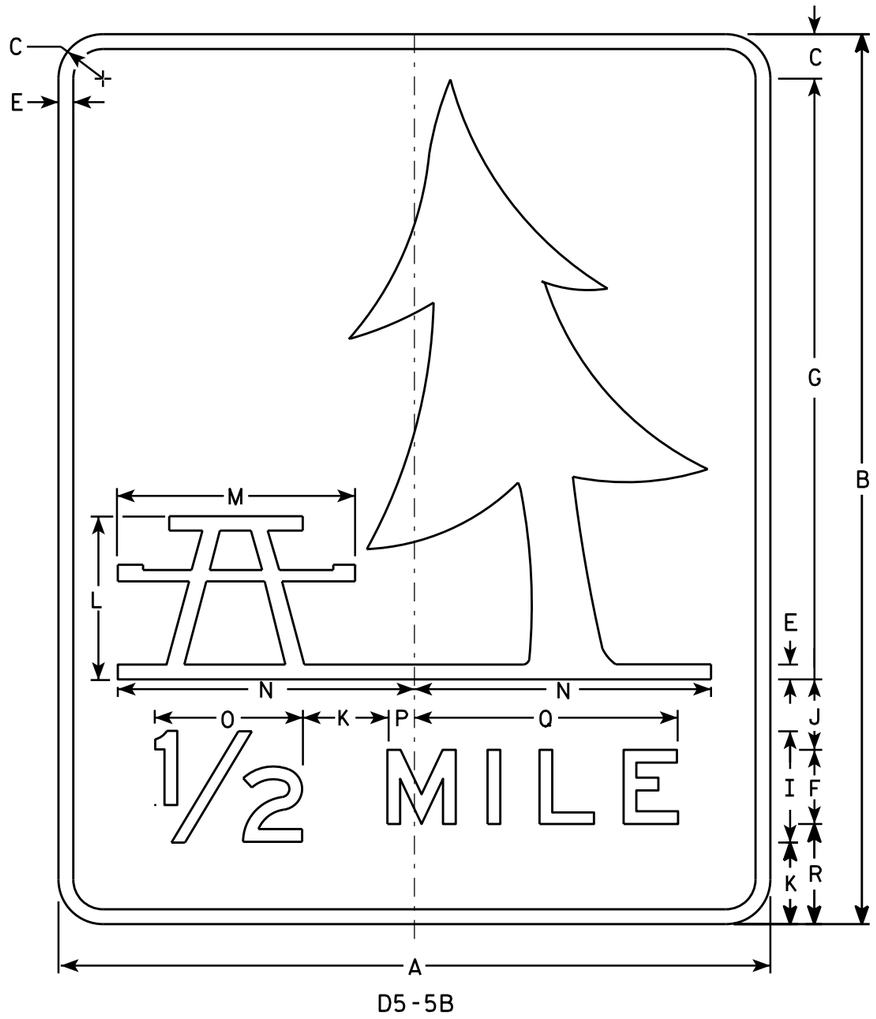
APPROVED Matthew R Rauch

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



D5-5B

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Blue
   Message - White - Type H Reflective
3. Message Series - E
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	30	1 ½		½	2 ½	20 ¼	2 ⅜	3 ¾	1 ¼	2 ⅞	5 ½	8	10	5	⅞	8 ⅞	3 ⅜									5.0
2	24	30	1 ½		½	2 ½	20 ¼	2 ⅜	3 ¾	1 ¼	2 ⅞	5 ½	8	10	5	⅞	8 ⅞	3 ⅜									5.0
3																											
4																											
5																											

STANDARD SIGN
D5-5B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/25/13 PLATE NO. D5-5B.7

PROJECT NO: SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\D55B.DGN PLOT DATE : 25-SEP-2013 13:15 PLOT BY : mscj9h

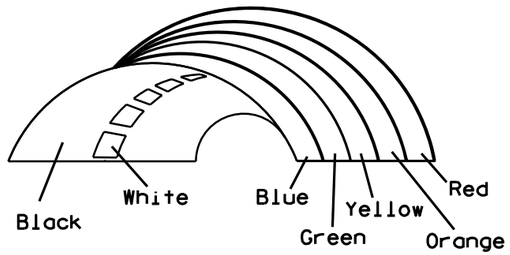
WISDOT/CADDS SHEET 42



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - (See Note 5)
3. Message Series - (See Note 6)
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Border - Blue
   Line 1 - Red
   Line 2 - Black
   Line 3-5 - Blue
6. Line 1 - Dutch 8011L
   Line 2 - Series E
   Line 3-5 - Series C
7. Contractor shall provide and install a new post bracket in accordance with the I55-56B sign detail.

Background Colors of Symbol*



*1/4" Black Border between each color of rainbow and border of rainbow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	36	1 1/2	1/2	5/8	3	2	3 1/2	2 7/8	1	8	2 1/8	11 1/4	11 1/8	9 3/8	1 1/4		3/4	12 5/8	7 1/2							7.5
3																											
4																											
5																											

STANDARD SIGN
I55-56

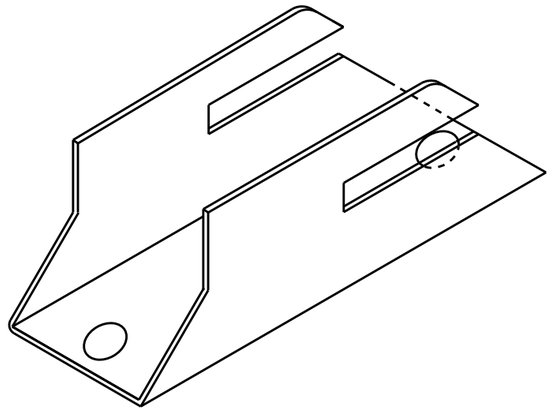
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

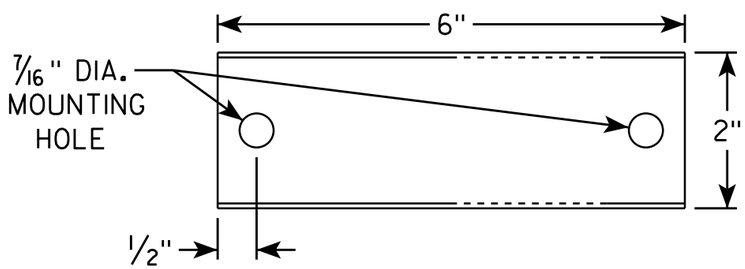
DATE 4/27/11 PLATE NO. 155-56.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 131

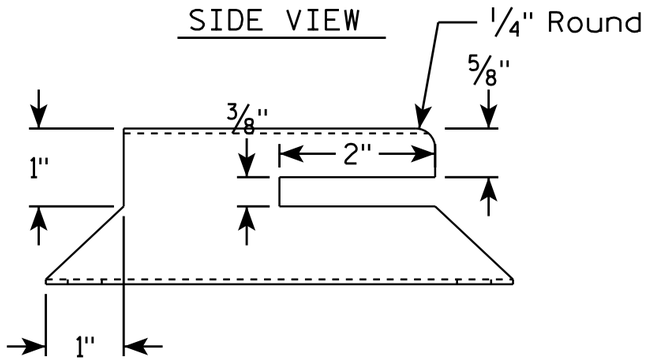
ISOMETRIC VIEW



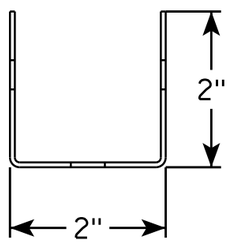
TOP VIEW



SIDE VIEW



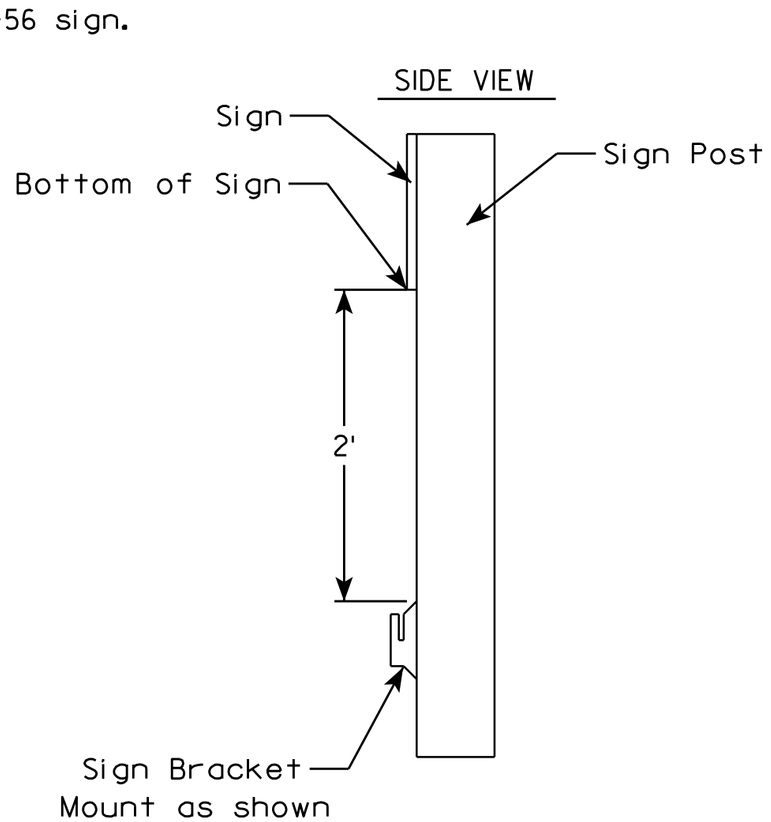
END VIEW



NOTES

1. Must be capable of permanent attachment to a wood or steel channel sign post utilizing the fastening hardware specified on the A4-8 sign plate.
2. Shall be entirely primed and painted with two coats of a black powder coated enamel paint.
3. Shall be made with 12 gauge steel, and incorporate no welds, no hinged components, no threaded lock-type components, and no parts which are loose or can be separated from the main body.
4. Shall have rounded edges with at least 1/8" radii.
5. Shall not have unrounded and uncoated metal edges which can contact the back surface of the roll-up sign.
6. Top of bracket shall be mounted 2' below the bottom of the I55-56 sign.
7. Cost of bracket and fastening hardware shall be incidental to the I55-56 sign.

SIDE VIEW



ROLLUP SIGN BRACKET
I55-56B

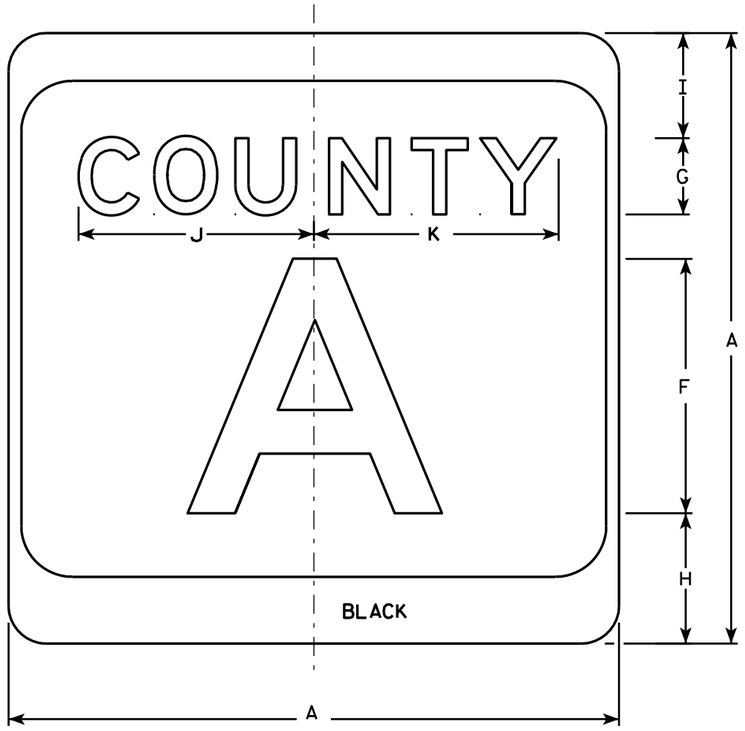
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

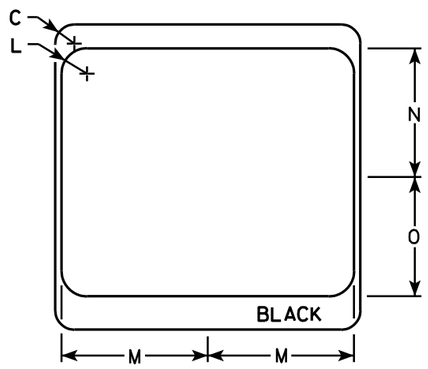
DATE 4/26/16 PLATE I55-56B.2

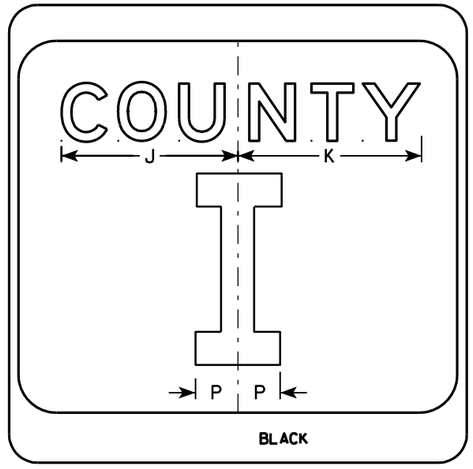
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

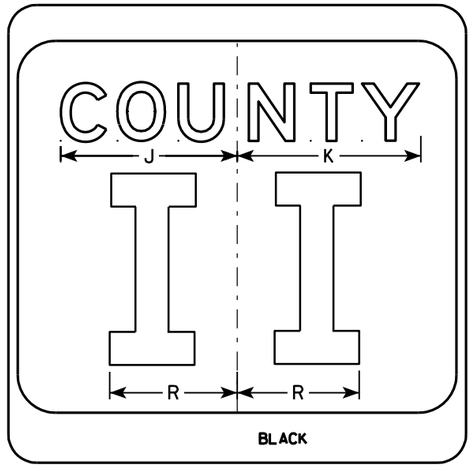
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\I5556B.DGN PLOT DATE : 26-APR-2016 17:29 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 1.945842:1.000000
WISDOT/CADDS SHEET 42



M1-5A







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

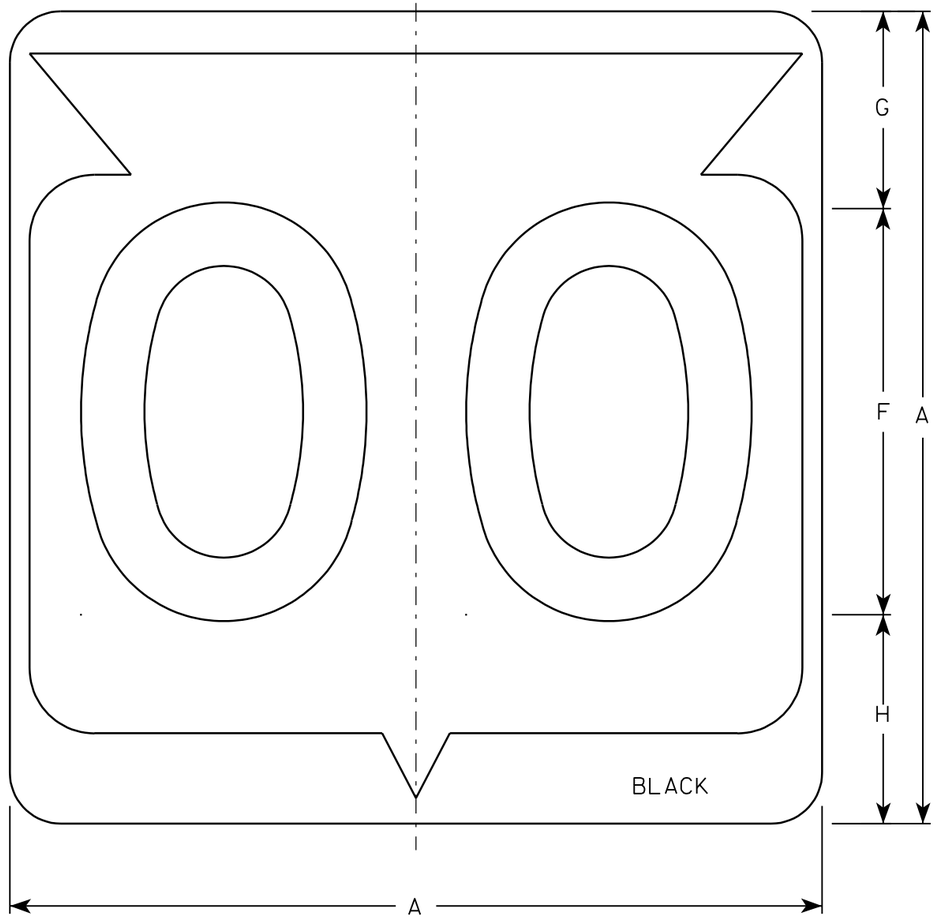
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

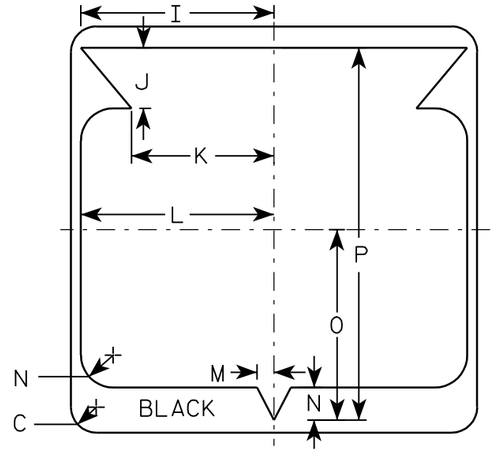
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 133	E



M1-6

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 6
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate Series numerals and adjust spacing as per plate A10-1.
6. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective



Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	900 mm X 900 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0	.36
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81

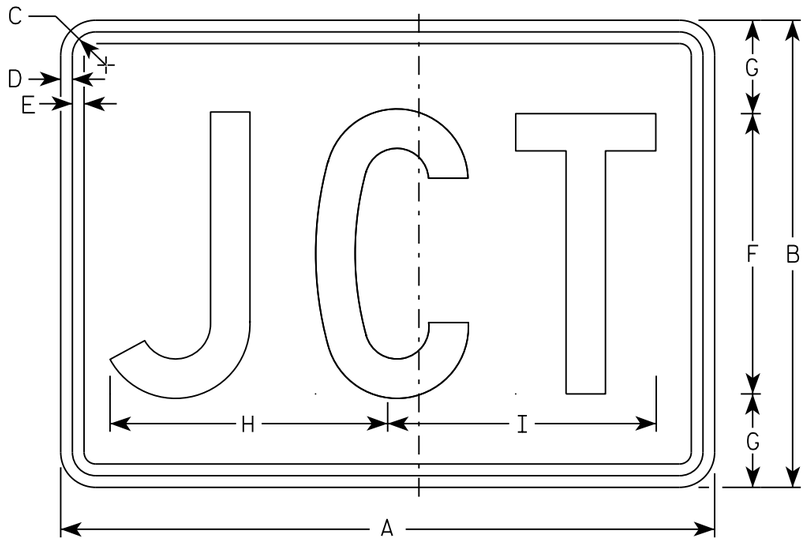
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

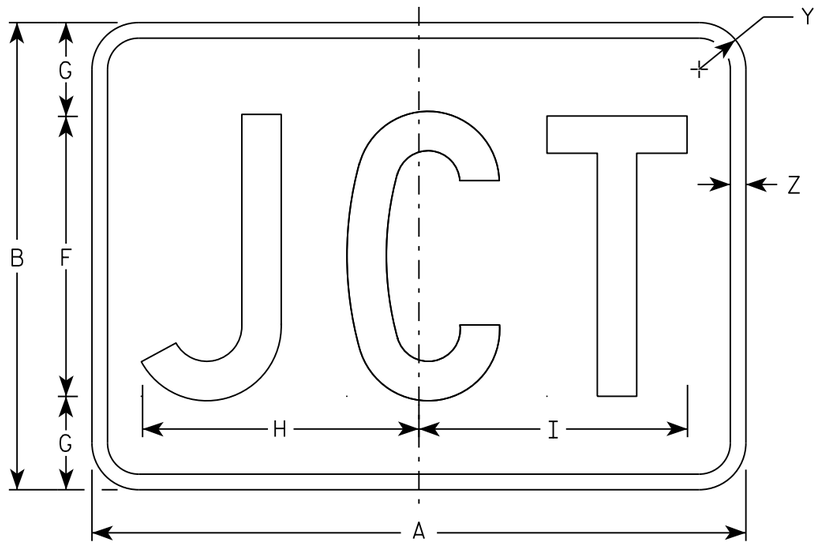
APPROVED Chester J Spang for State Traffic Engineer

DATE 3/20/02 PLATE NO. M1-6.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 134	E



M2-1
MM2-1
MP2-1



MB2-1
MK2-1
MN2-1
MR2-1

NOTES

1. Sign is 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. M2-1 Background - White
   Message - Black
   MB2-1 Background - Blue
   Message - White
   MK2-1 Background - Green
   Message - White
   MM2-1 Background - White
   Message - Green
   MN2-1 Background - Brown
   Message - White
   MP2-1 Background - White
   Message - Blue
   MR2-1 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40

STANDARD SIGN
M2-1

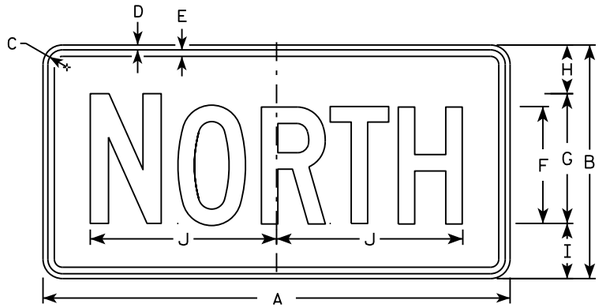
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

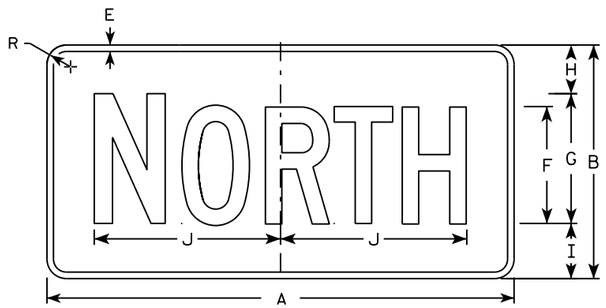
DATE 10/15/15 PLATE 135 12-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M21.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.864603:1.000000



M3-1
MM3-1
MP3-1



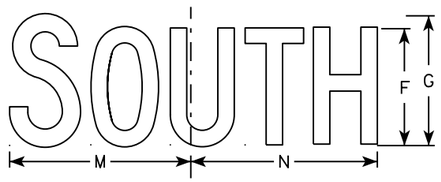
MB3-1
MK3-1
MN3-1



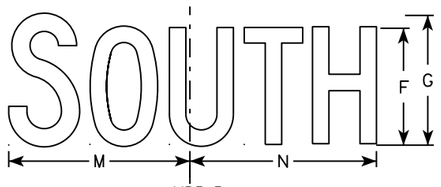
M3-2
MM3-2
MP3-2



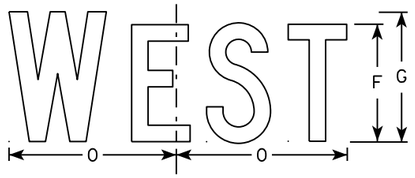
MB3-2
MK3-2
MN3-2



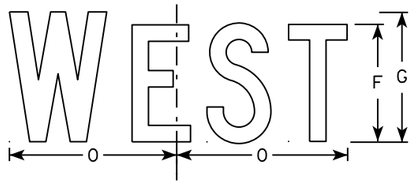
M3-3
MM3-3
MP3-3



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

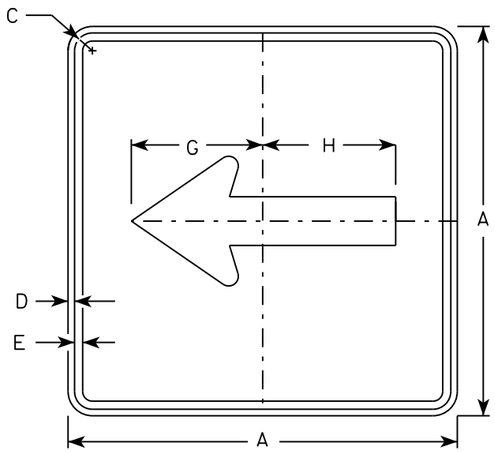
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

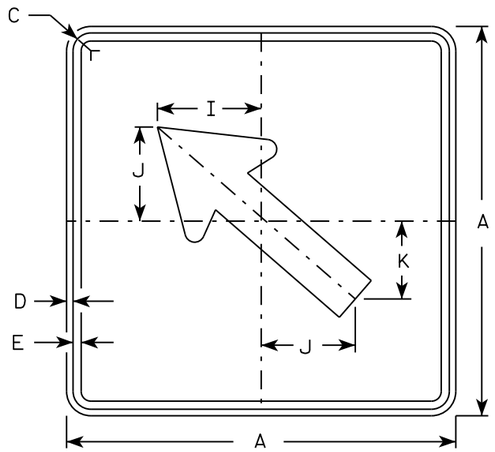
DATE 10/15/15 PLATE NO M3-1.14

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



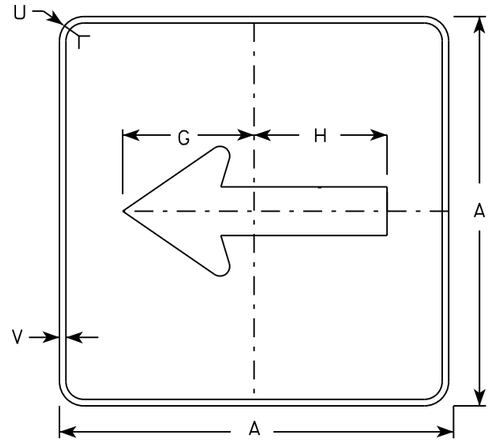
M6-1
MM6-1
MO6-1
MP6-1



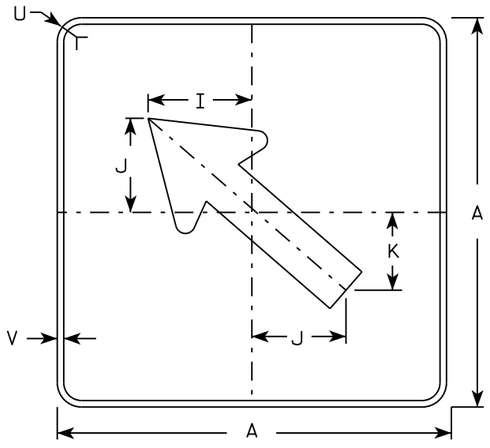
M6-2
MM6-2
MO6-2
MP6-2

NOTES

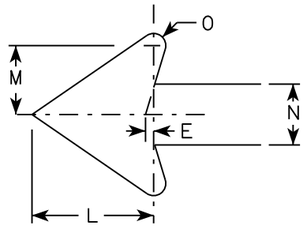
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - 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

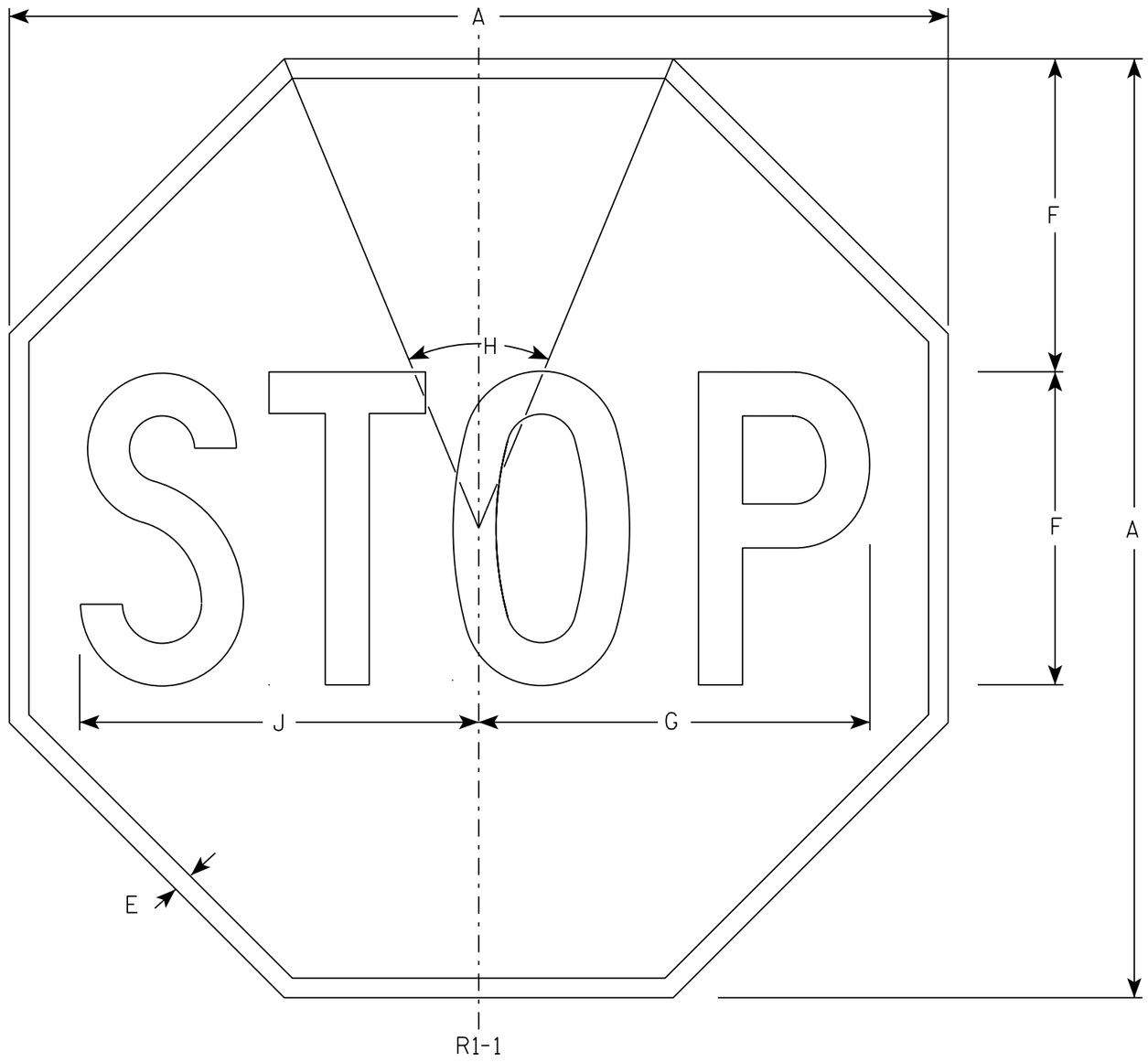
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 137 M6-1.15

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 01-DEC-2015 17:57 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - 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

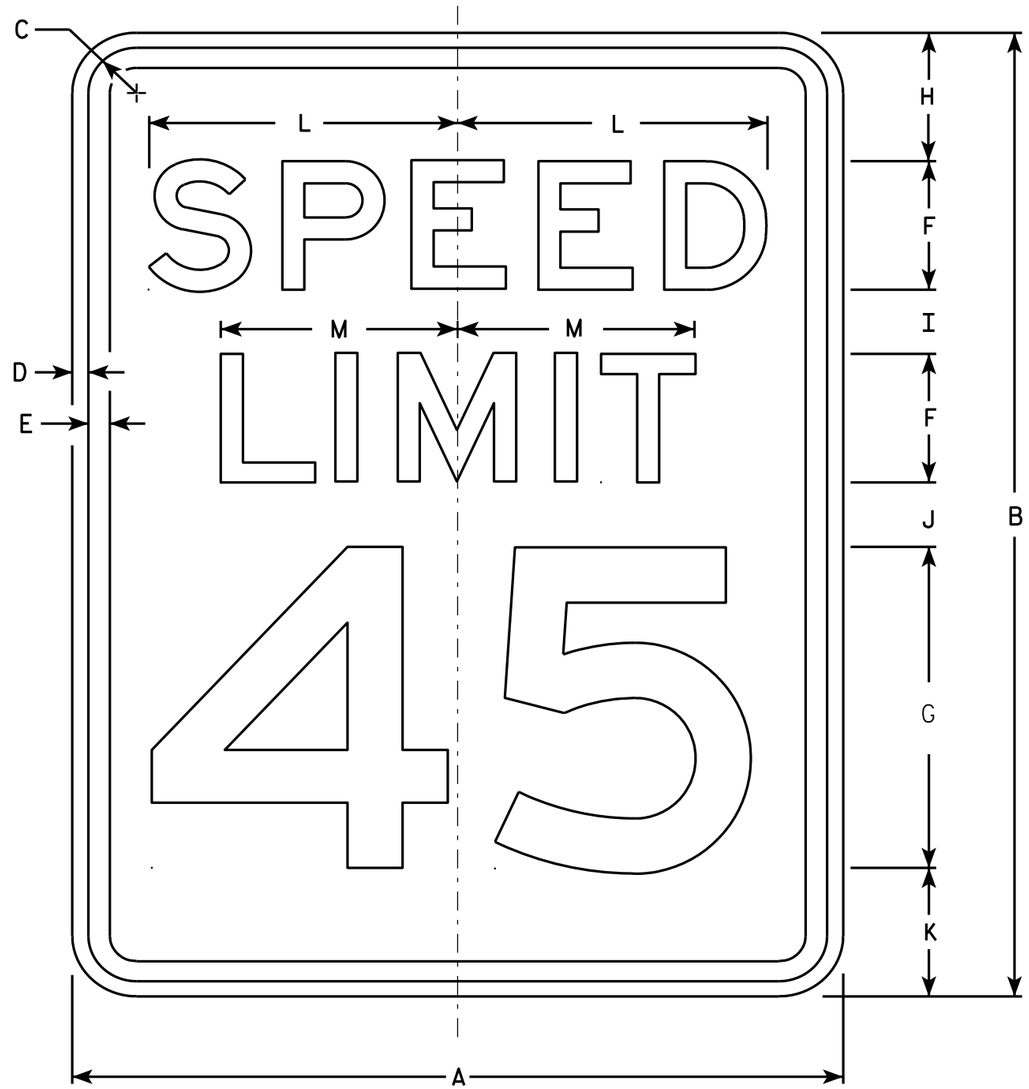
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 138	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

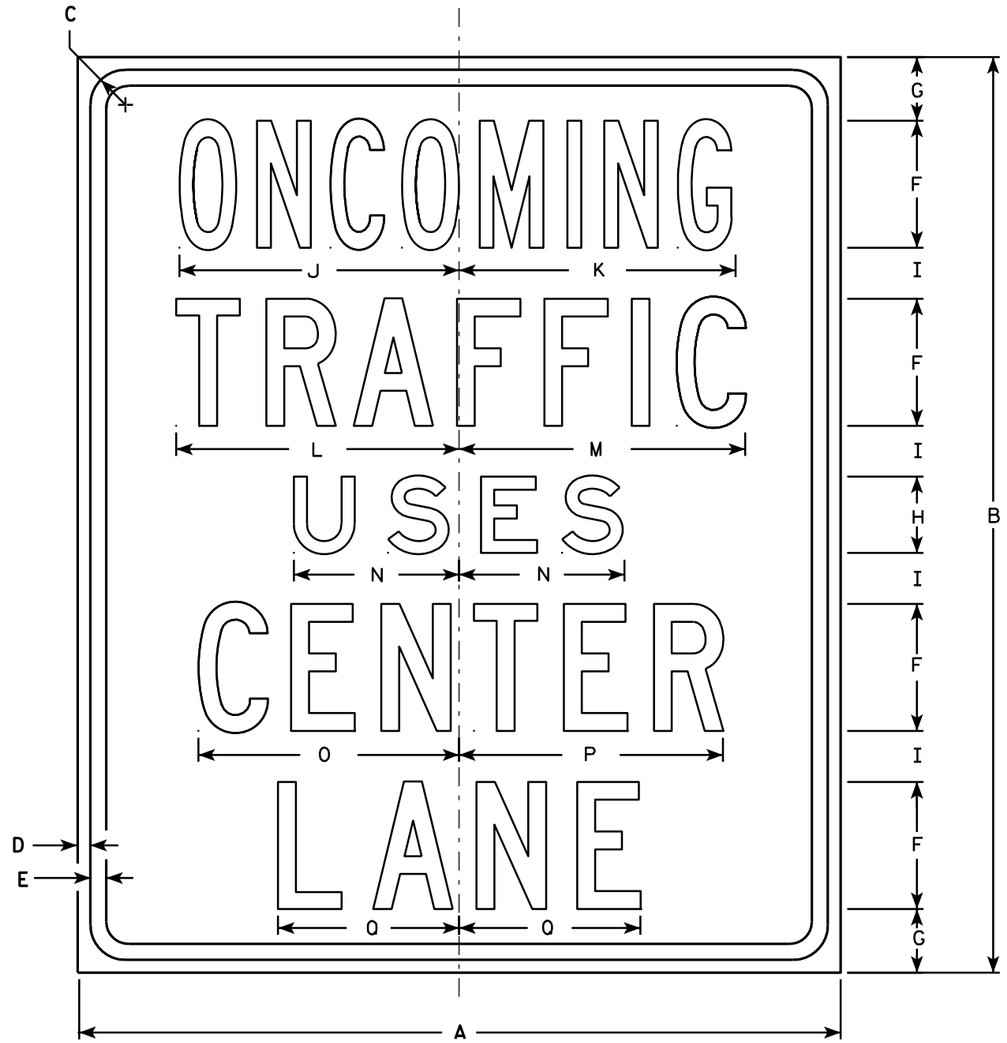
STANDARD SIGN
R2-1

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: 139 | E



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																											

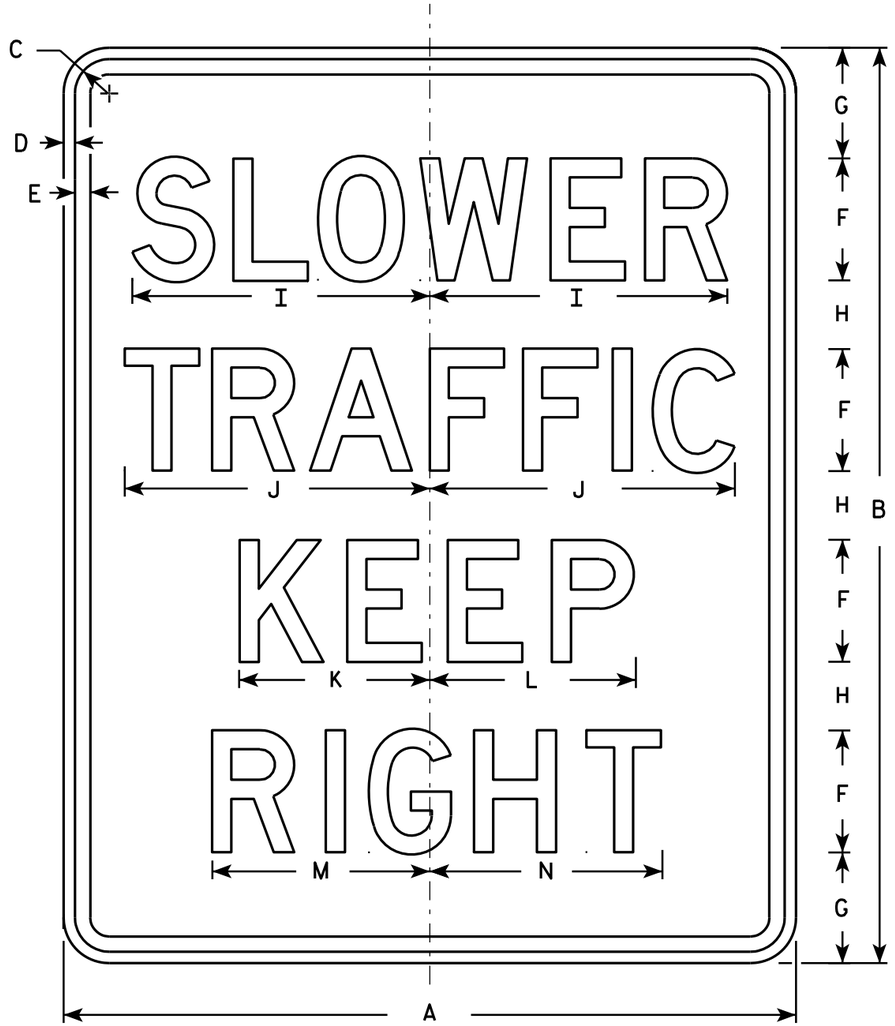
STANDARD SIGN
R3-72

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: 140 | 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

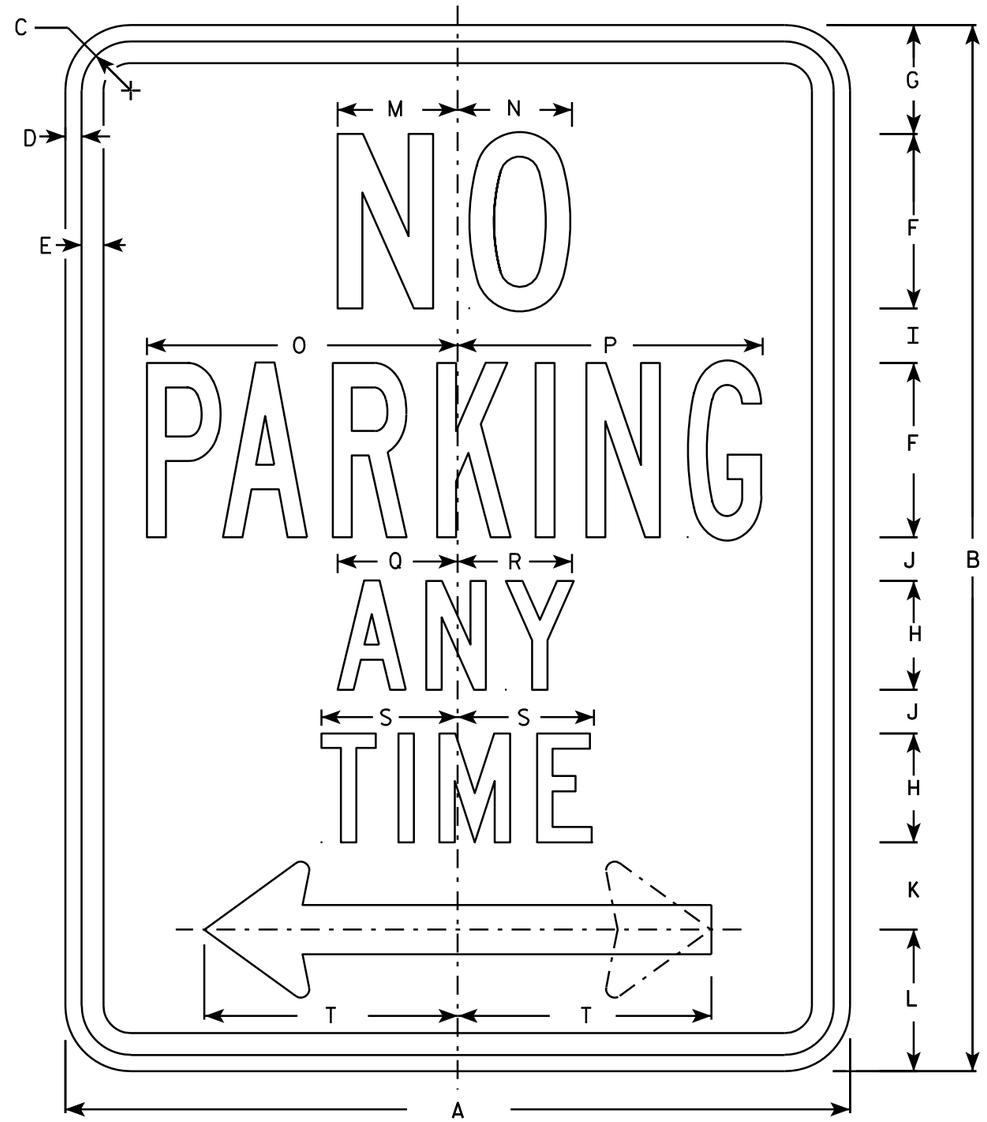
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-3.8

PROJECT NO:

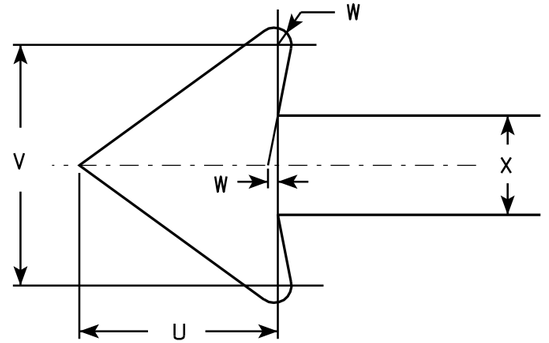
SHEET NO: 141 E



R7-1

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 - Red
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1, 3 and 4 are series C, line 2 is series B.
6. R7-1D (double arrow)
   R7-1L (left arrow)
   R7-1R (right arrow)



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 1/4	2 1/8	2 1/2	3 7/8	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 5/8	3 1/8	5 7/8	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

STANDARD SIGN
R7-1

WISCONSIN DEPT OF TRANSPORTATION

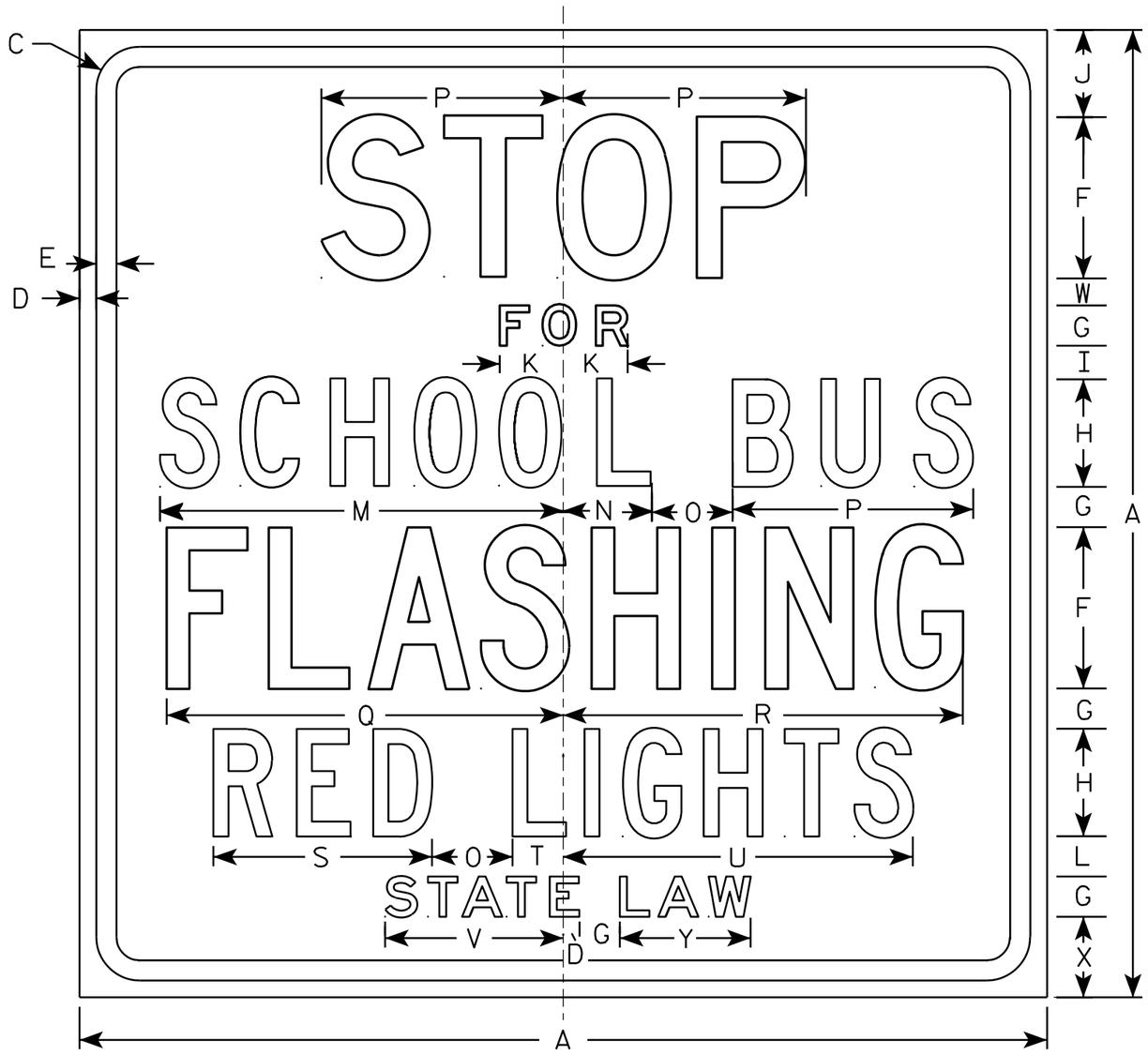
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-1.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 142	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R71.DGN PLOT DATE : 31-MAR-2011 09:20 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 3.476110:1.000000

WISDOT/CADDS SHEET 42



R59-51

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 - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series D
   Lines 2 & 6 are Series E
   Line 3, 4 & 5 are Series C

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	36		1 5/8	5/8	3/4	6	1 1/2	4	1 1/4	3 1/4	2 3/8	1 1/2	15	3 1/4	3	9	14 3/4	14 7/8	8 1/8	1 7/8	13	6 5/8	1	3	4 7/8		9.0
2M	36		1 5/8	5/8	3/4	6	1 1/2	4	1 1/4	3 1/4	2 3/8	1 1/2	15	3 1/4	3	9	14 3/4	14 7/8	8 1/8	1 7/8	13	6 5/8	1	3	4 7/8		9.0
3	48		2 1/4	3/4	1	8	2	6	1 1/4	4 3/4	3 1/4	1 1/2	20 1/4	5	3 5/8	12	19 1/2	20	11 5/8	3 3/4	19	9 1/2	1	3 1/2	6 3/4		16.0
4	48		2 1/4	3/4	1	8	2	6	1 1/4	4 3/4	3 1/4	1 1/2	20 1/4	5	3 5/8	12	19 1/2	20	11 5/8	3 3/4	19	9 1/2	1	3 1/2	6 3/4		16.0
5																											

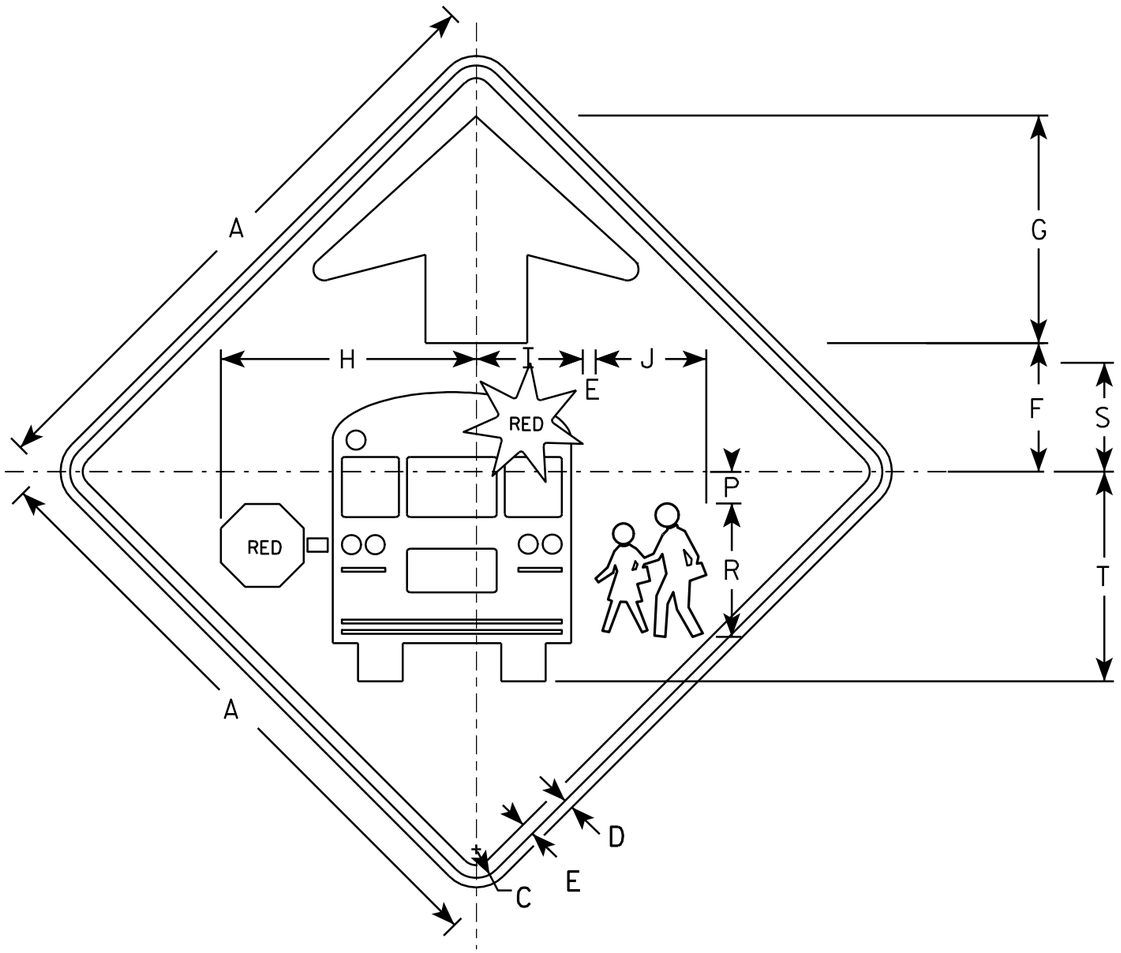
STANDARD SIGN
R59-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/30/11 PLATE NO. R59-51.10

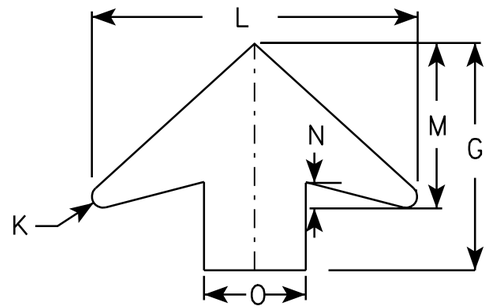
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 143 | E



S3-1

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW-GREEN
   Message - BLACK except as noted
   Circles except PEDS- RED BACKGROUND
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	12 1/2	5 1/4	5 1/2	1/2	16	8	1 1/4	5	1 1/2		6 5/8	5 3/8	10 3/8							6.25
2	36		1 5/8	5/8	3/4	7 1/2	13 1/2	15 1/8	6 1/4	6 1/2	5/8	19 1/4	9 3/4	1 5/8	6	1 7/8		7 7/8	6 3/8	12 3/8							9.0
3	48		2 1/4	3/4	1	10	17 7/8	20 1/8	8 3/8	8 3/4	7/8	25 5/8	13	2	8	2 1/2		10 1/2	8 1/2	16 1/2							16.0
4	48		2 1/4	3/4	1	10	17 7/8	20 1/8	8 3/8	8 3/4	7/8	25 5/8	13	2	8	2 1/2		10 1/2	8 1/2	16 1/2							16.0
5																											

STANDARD SIGN
S3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

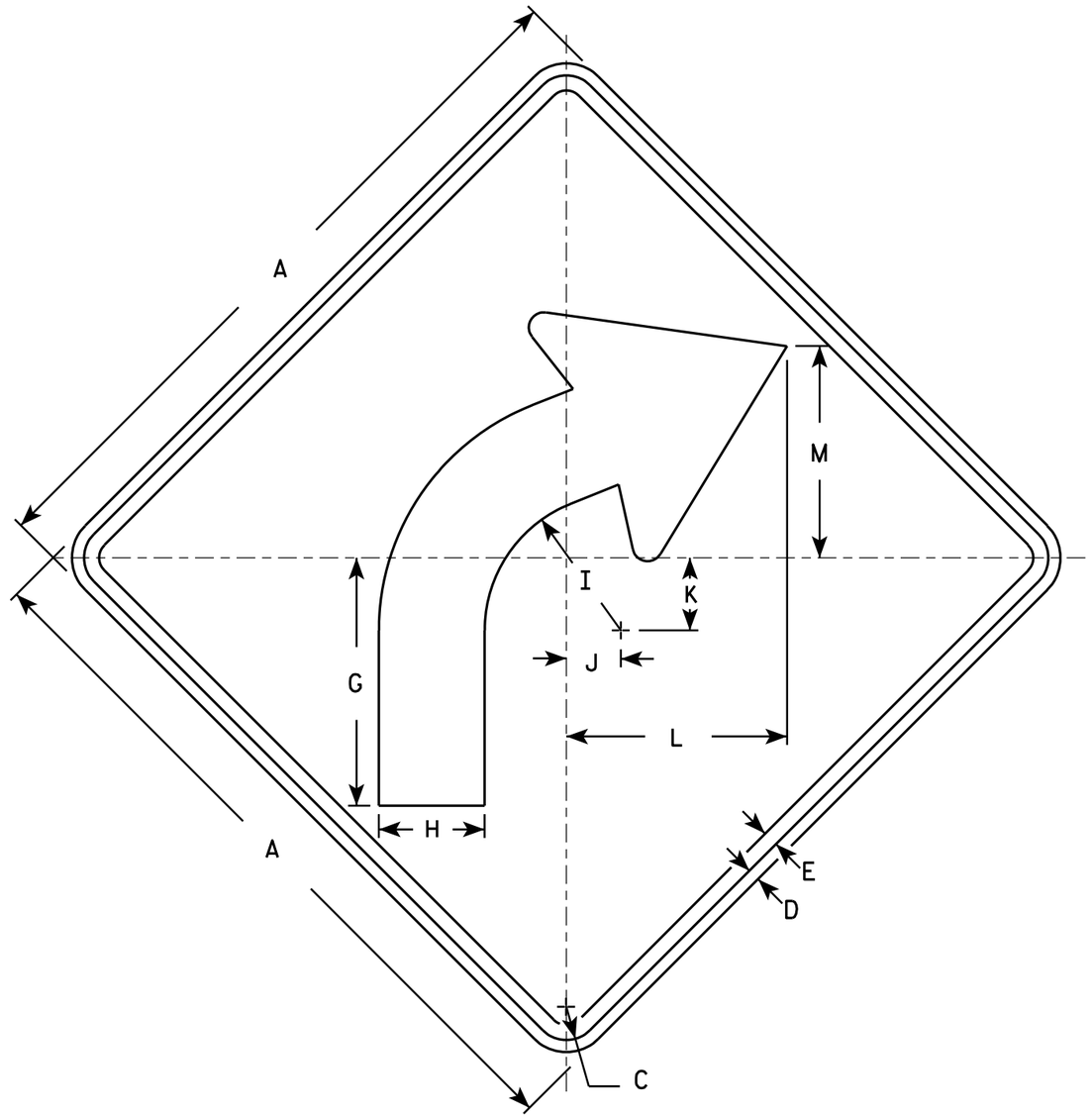
DATE 6/8/10 PLATE NO. S3-1.6

PROJECT NO:

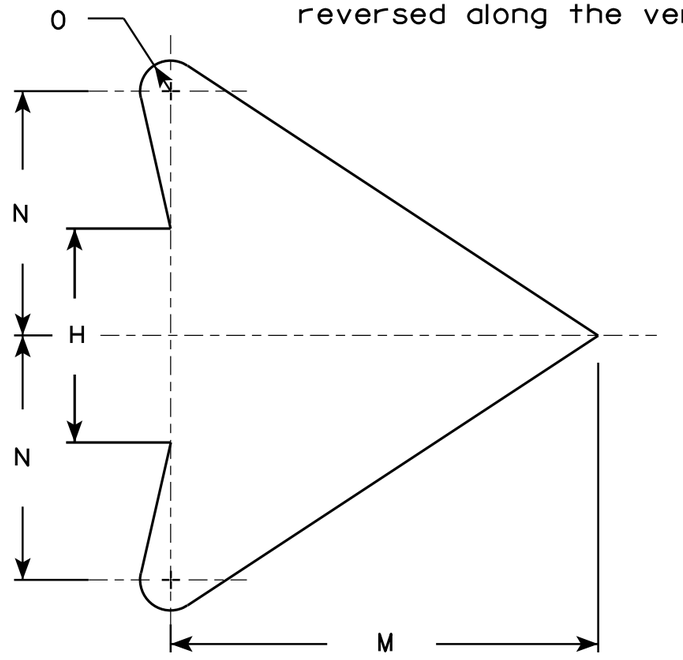
SHEET NO: 144 E

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



W1-2R



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
2S	30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 5/8	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2M	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
3	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
4	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
5	48		2 1/4	3/4	1		16 1/2	7	9	3 1/2	4 5/8	14 1/2	14	8	1												16.0

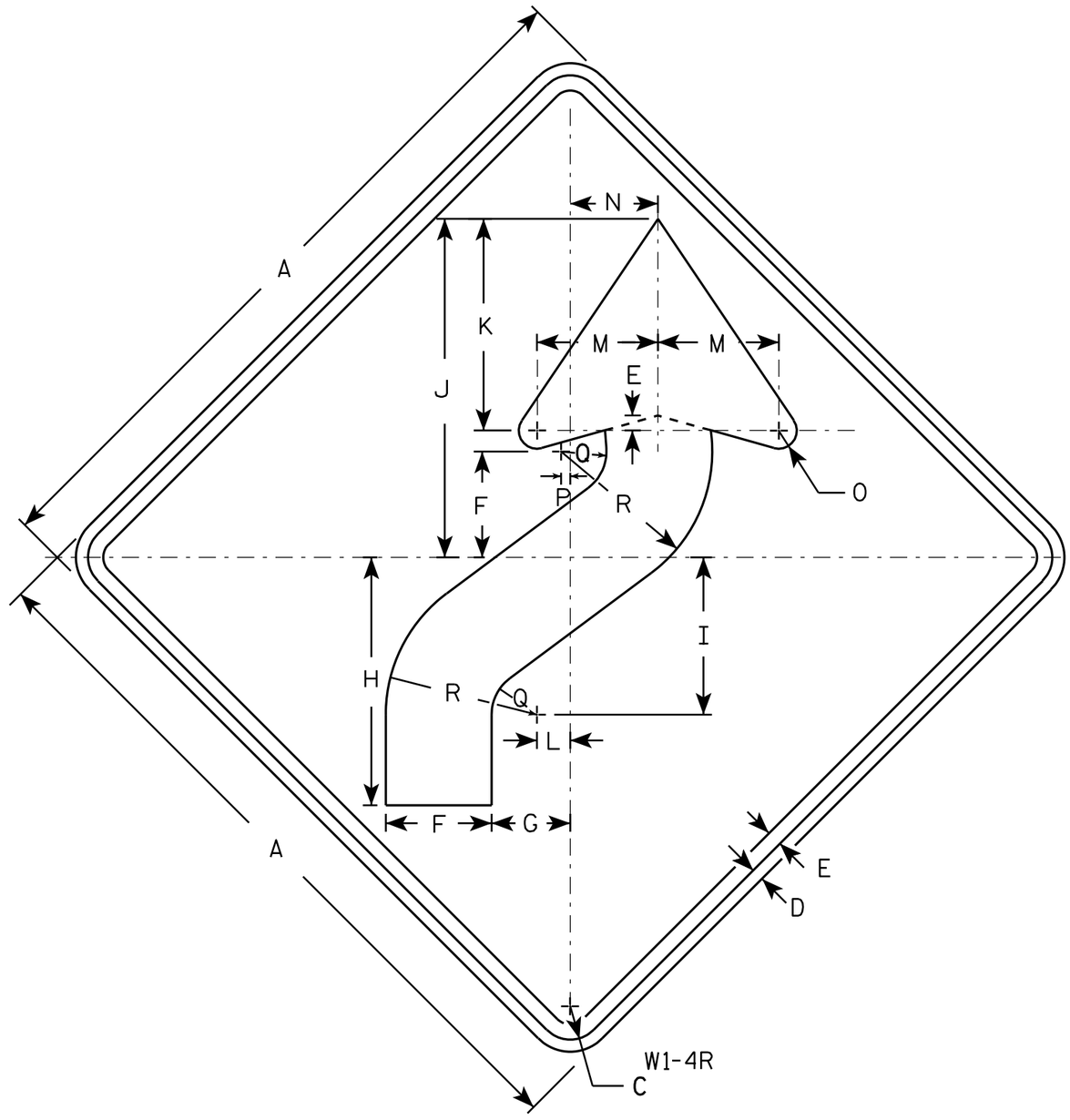
STANDARD SIGN
W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/15/12 PLATE NO. W1-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 145	E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W1-4L is the same as W1-4R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	3 1/2	2 5/8	8 1/4	5 1/4	11 1/4	7	1 1/8	4	3	5/8	1/4	1 1/2	5									4.0
2S	30		1 3/8	1/2	5/8	4 3/8	3 1/4	10 1/4	6 1/2	14	8 3/4	1 3/8	5	3 5/8	3/4	3/8	1 7/8	6 1/4									6.25
2M	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
3	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
4	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
5	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

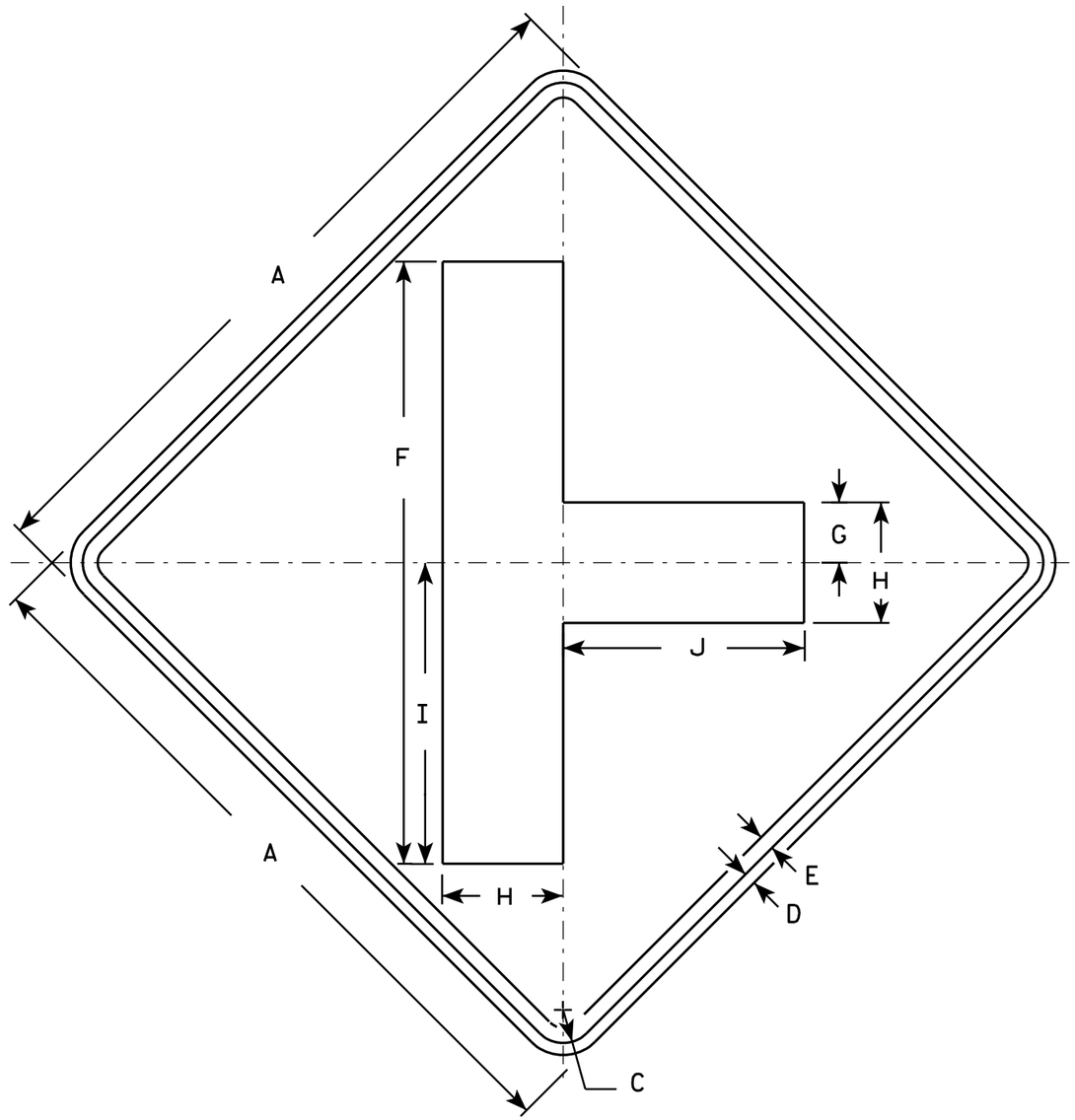
STANDARD SIGN
W1-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/17/12 PLATE NO. W1-4.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 146 | E



W2-2

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	20	2	4	10	8																	4.0
2S	30		1 3/8	1/2	5/8	25	2 1/2	5	12 1/2	10																	6.25
2M	30		1 3/8	1/2	5/8	25	2 1/2	5	12 1/2	10																	6.25
3	36		1 5/8	5/8	3/4	30	3	6	15	12																	9.0
4	48		2 1/4	3/4	1	40	4	8	20	16																	16.0
5																											

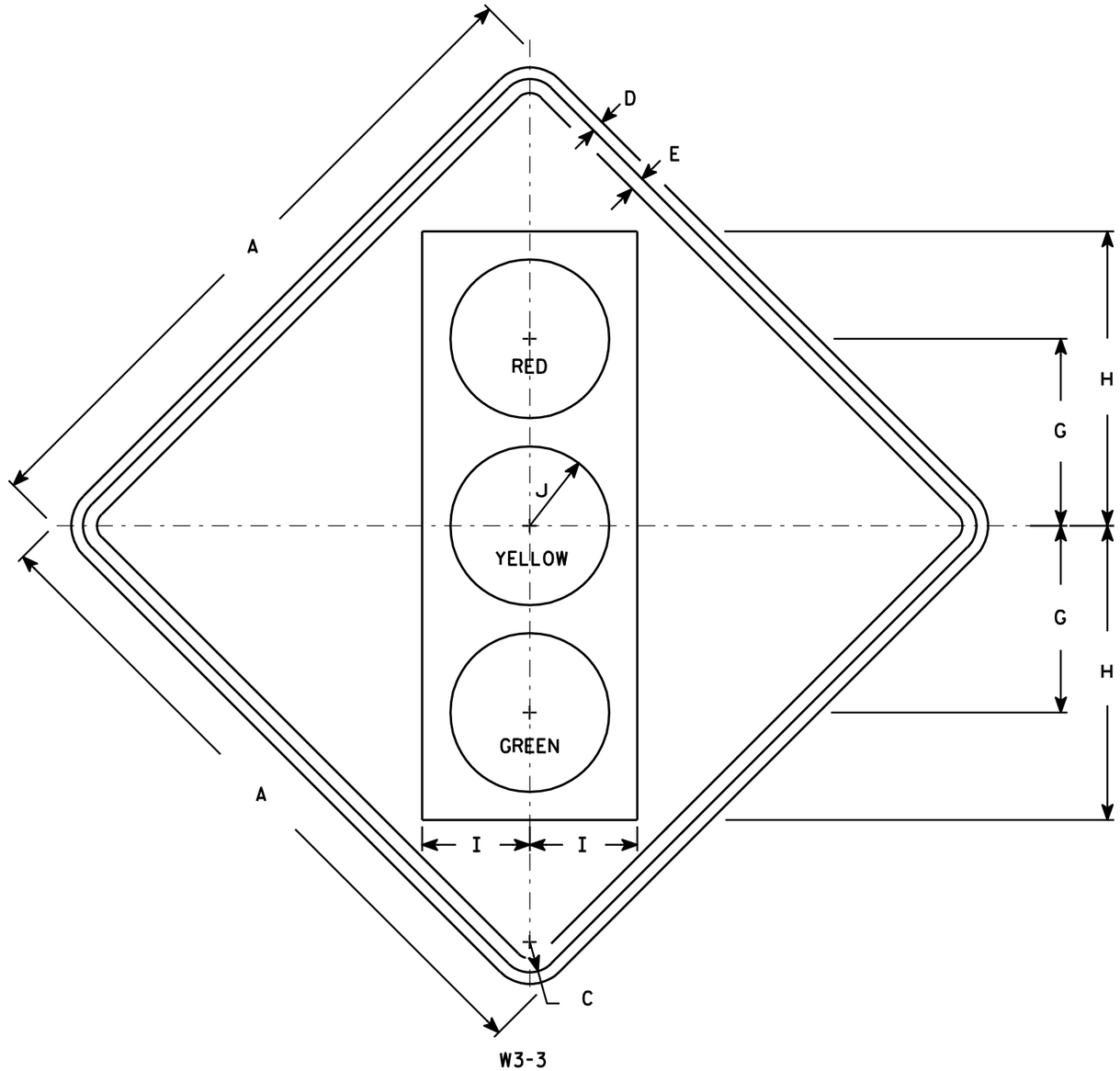
STANDARD SIGN
W2-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W2-2.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 147	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 - 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	30		1 3/8	1/2	5/8		8 3/4	13 3/4	5	3 3/4																	6.25
2S	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
2M	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
3	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
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
W3-3

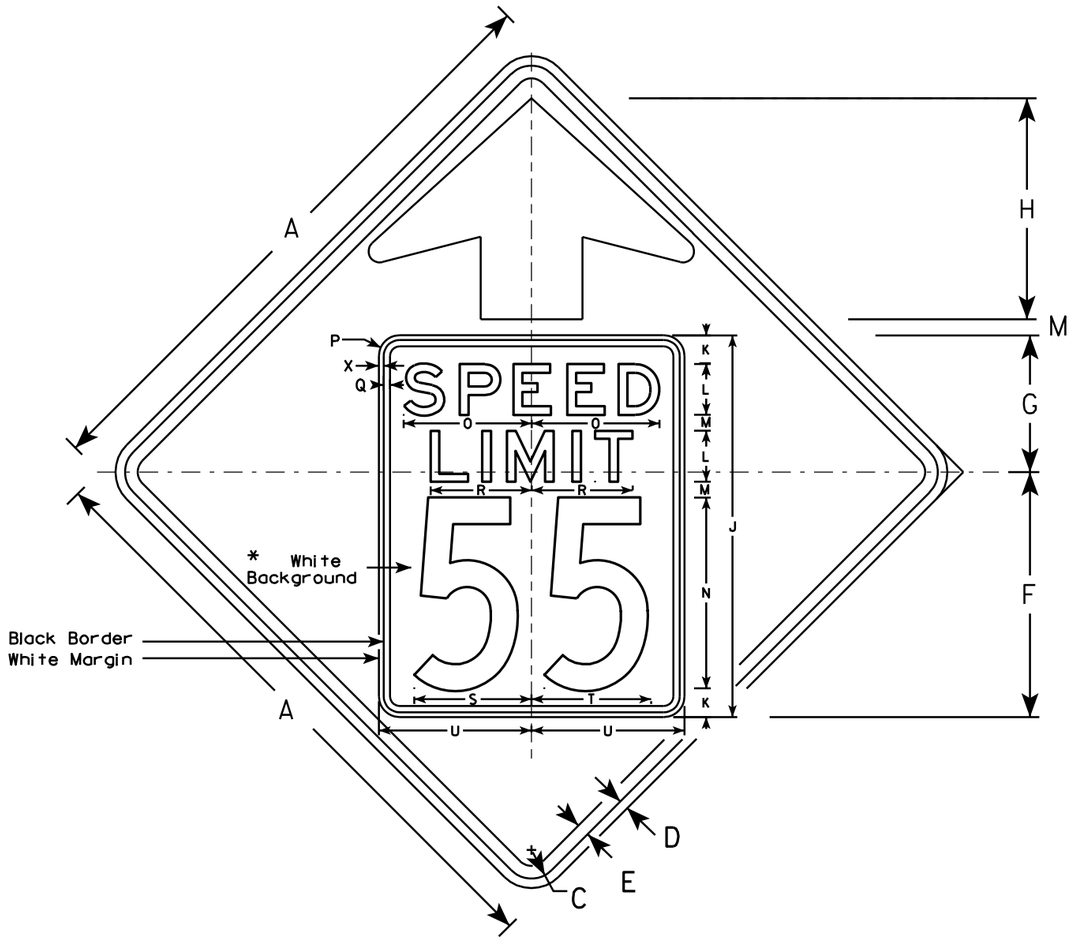
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-3.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 148 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W33.DGN PLOT DATE : 07-JUN-2010 13:07 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 7.448805:1.000000
WISDOT/CADDS SHEET 42

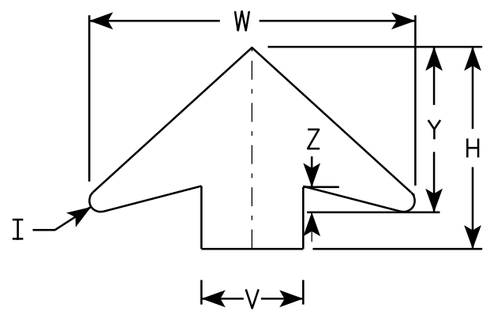


W3-5

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

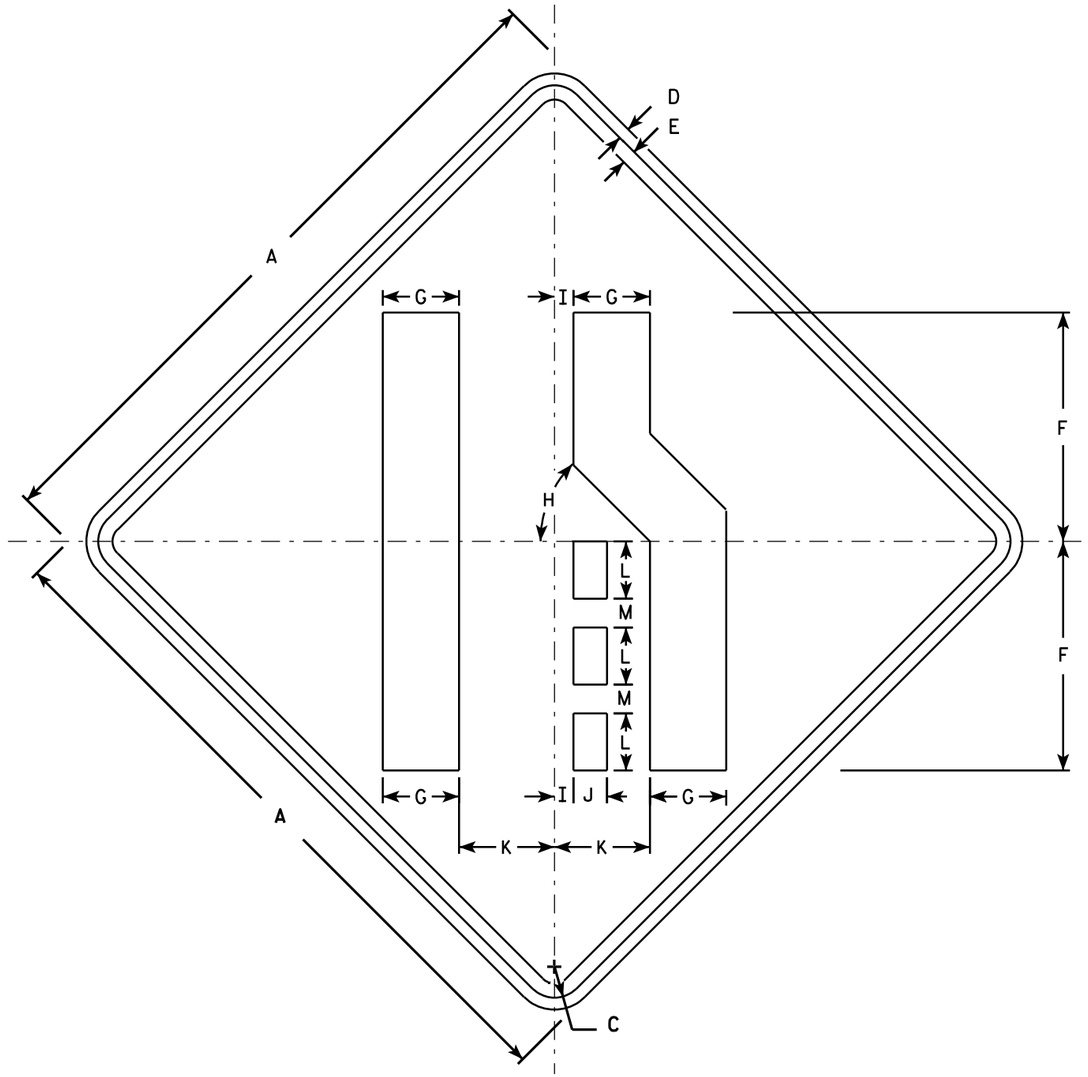
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W3-5.5

PROJECT NO:

SHEET NO: 149 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

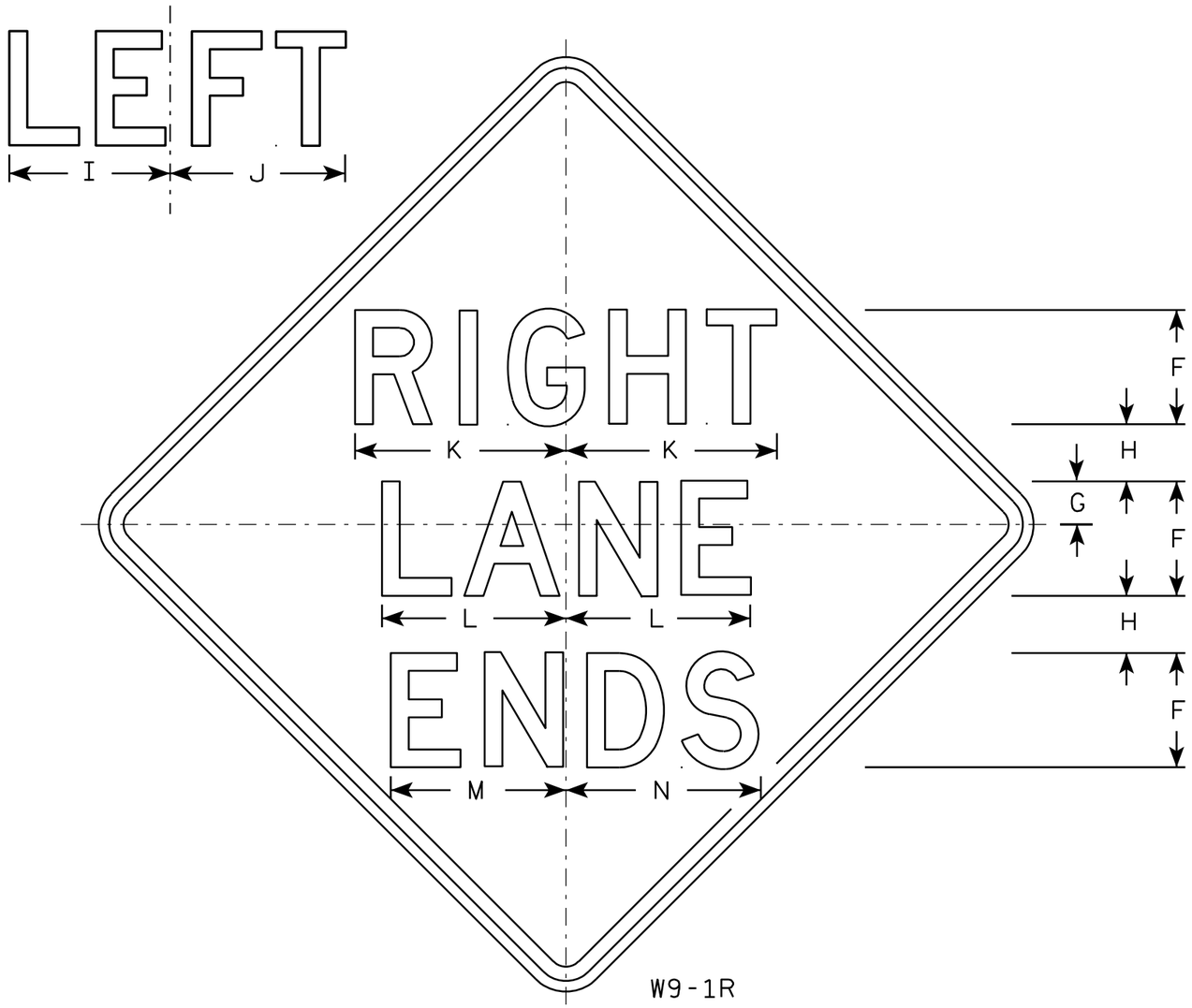
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/12/13 PLATE NO. W4-2.14

PROJECT NO:

SHEET NO: 150 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:

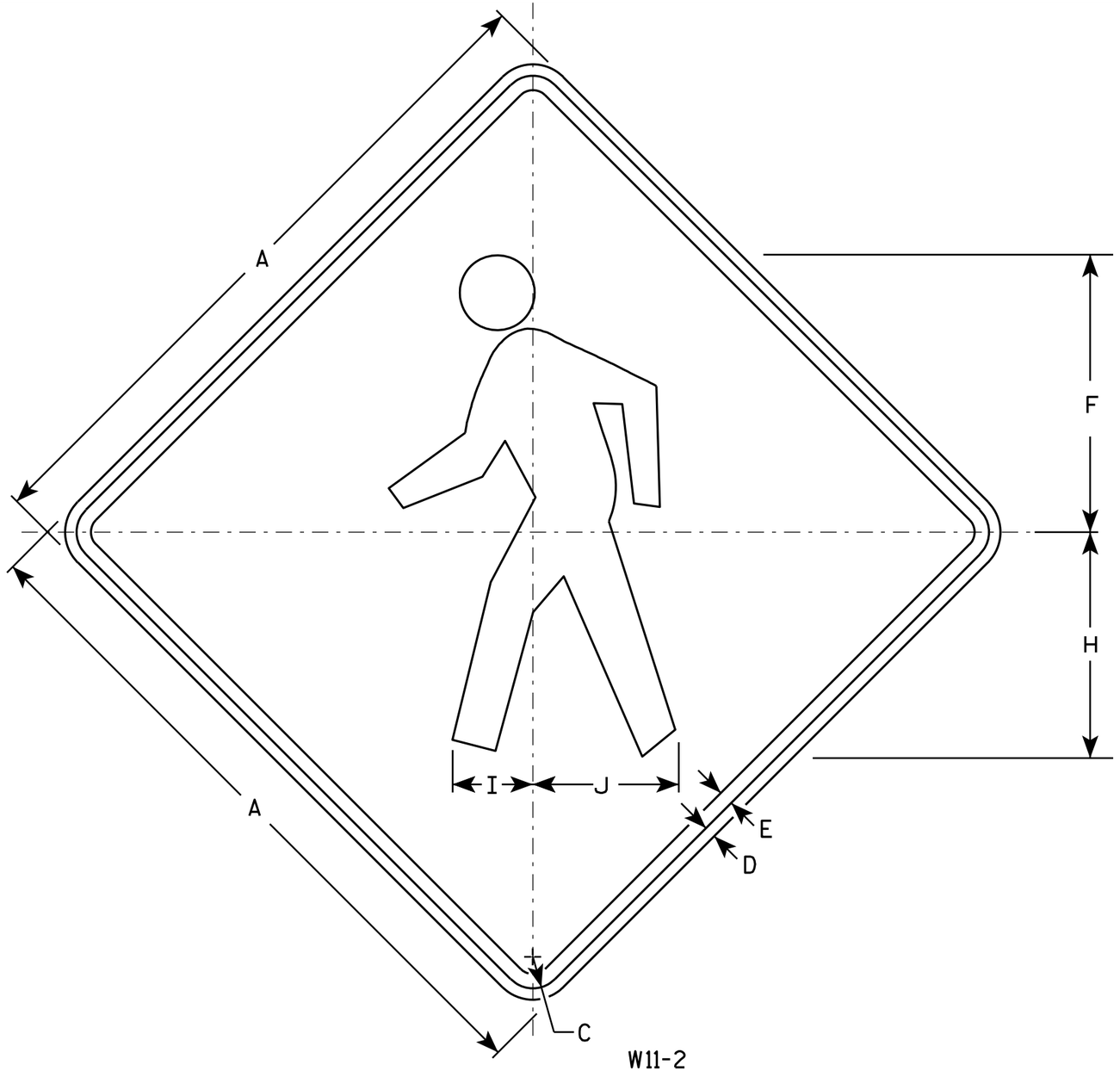
SHEET NO: 151 E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W91.DGN PLOT DATE : 18-MAR-2013 11:42 PLOT BY : mscsja

WISDOT/CADDS SHEET 42

7

7



W11-2

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	9 3/4		7 7/8	2 7/8	5 1/8																	4.0
2S	30		1 3/8	1/2	5/8	12 1/8		9 7/8	3 1/2	6 3/8																	6.25
2M	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
3	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
4	48		2 1/4	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
5																											

STANDARD SIGN
W11-2

WISCONSIN DEPT OF TRANSPORTATION

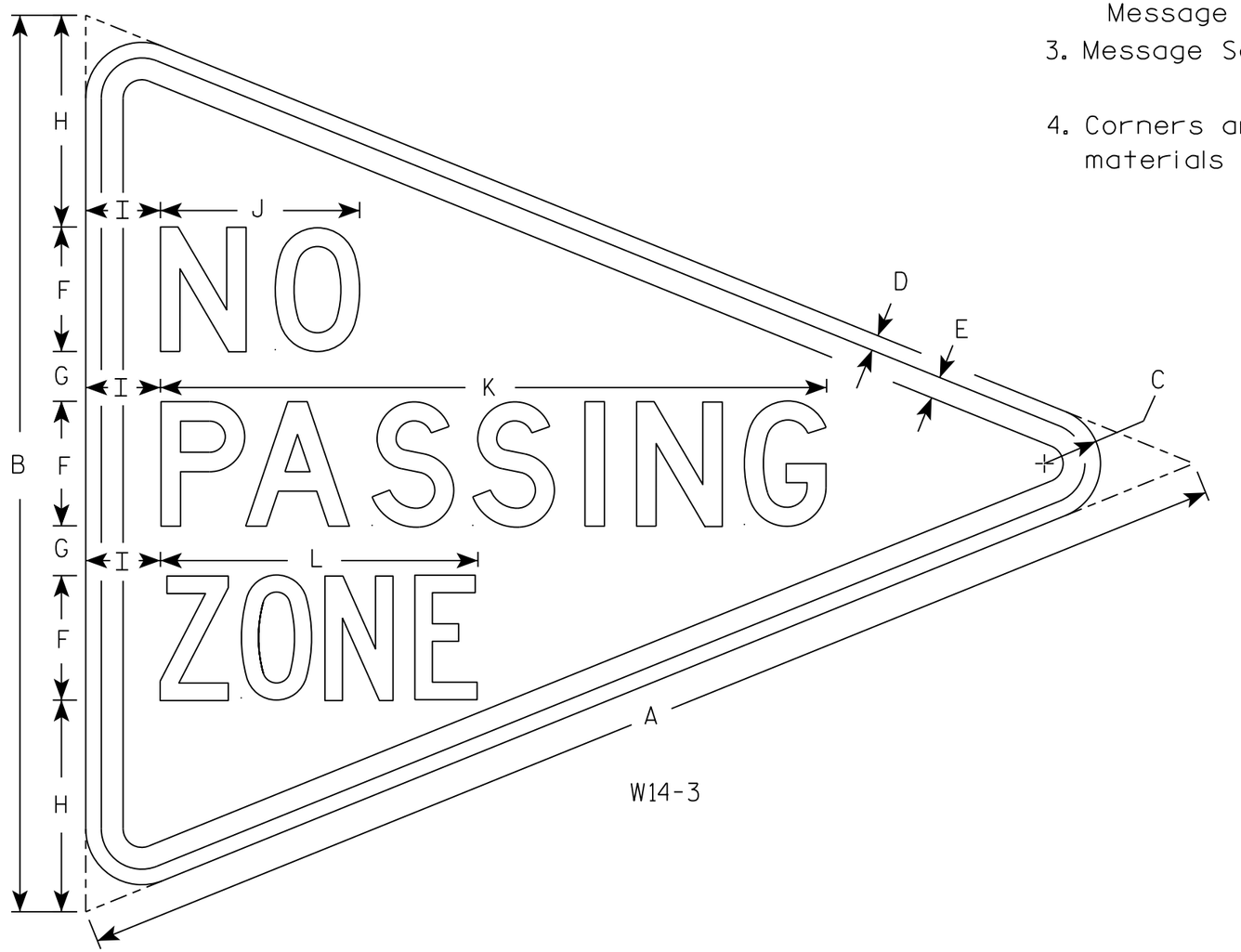
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W11-2.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 152	E

NOTES

1. Sign is Type II- Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - Lines 1 and 2 are Series D.
   Line 3 is series C.
4. Corners and borders shall be rounded on all base materials for this sign.



W14-3

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															5.56
2M																											
3																											
4																											
5																											

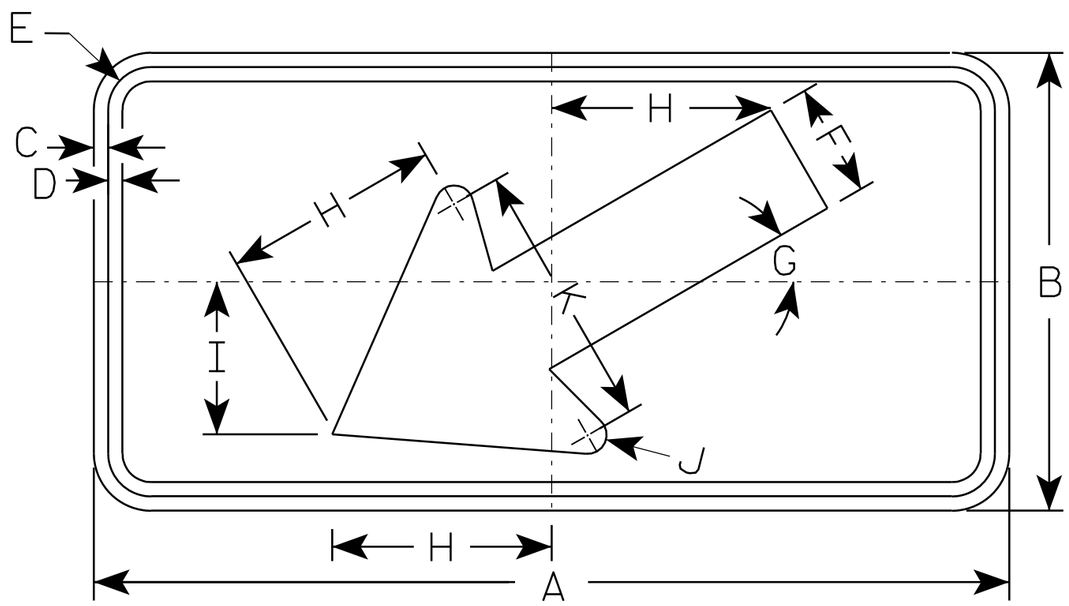
STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/17 PLATE NO. W14-3.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 153 | E



W16-7L

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. W16-7R is the same as W16-L except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	3/8	3/8	1 1/8	3	30°	5 3/4	4	1/2	7																2.0
2M	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
3	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
4																											8
5																											8

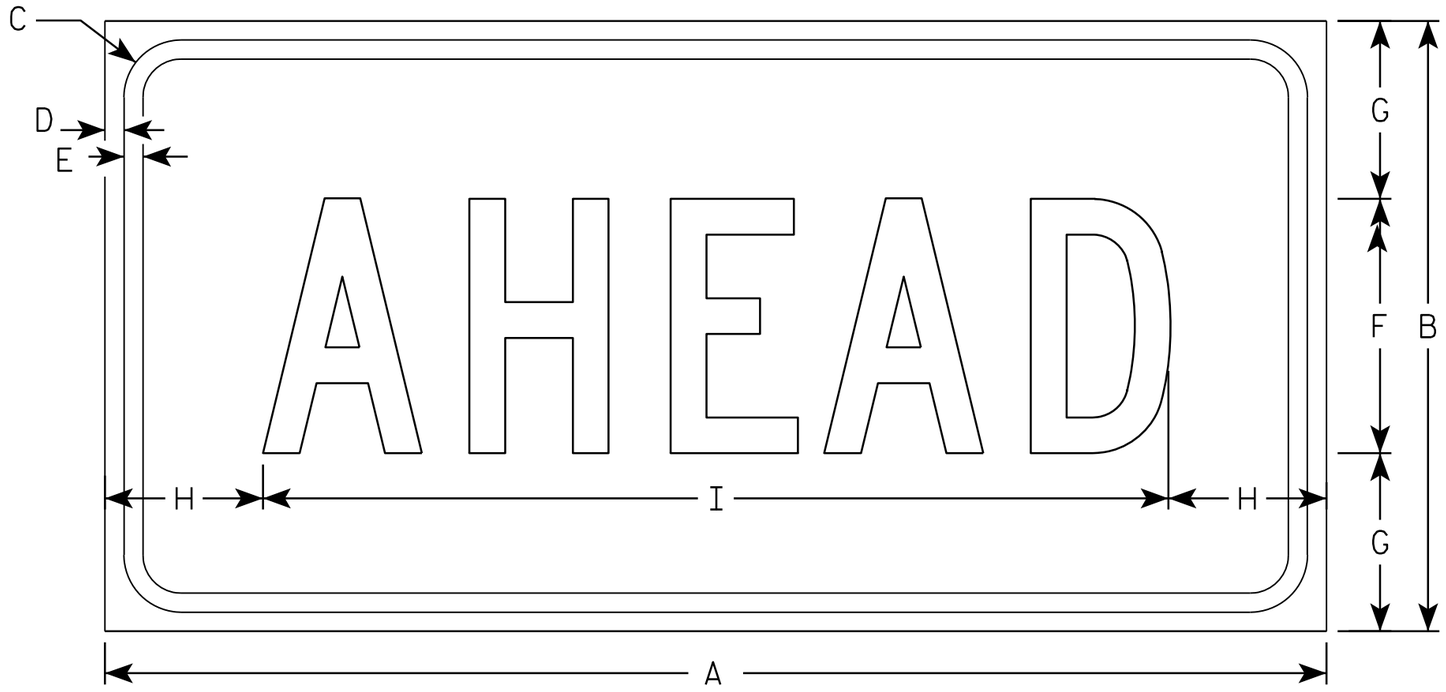
STANDARD SIGN
W16-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/02/10 PLATE NO. W16-7.5

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 154	E



W16-9P

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/8	3/8	3/8	5	3 1/2	3 1/8	17 3/4																		2.0
2M	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
3	30	18	1 1/8	3/8	1/2	7	3 1/2	2 3/4	24 1/2																		3.75
4	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
5																											

STANDARD SIGN
W16-9P

WISCONSIN DEPT OF TRANSPORTATION

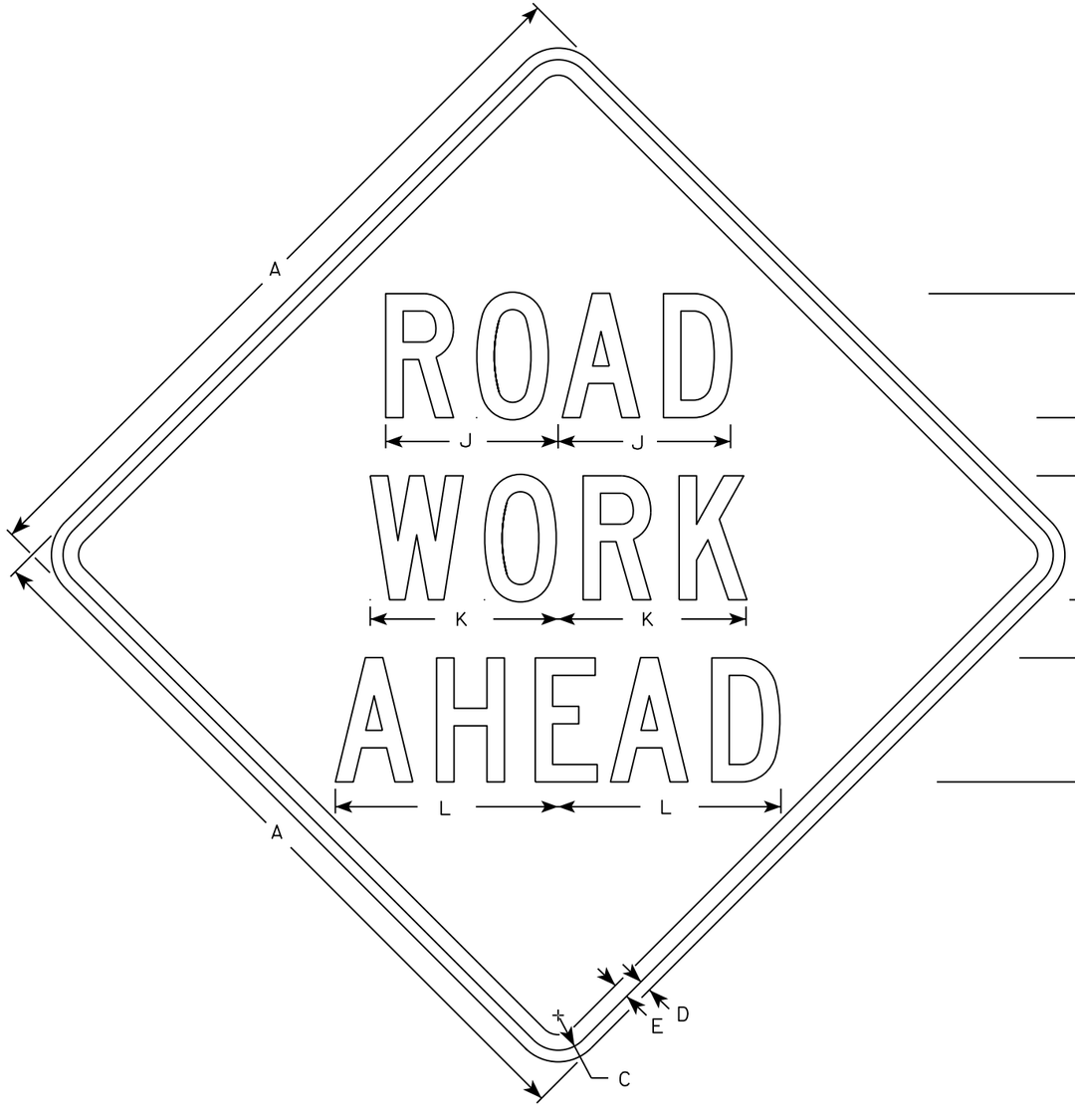
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/28/10 PLATE NO. W16-9P.6

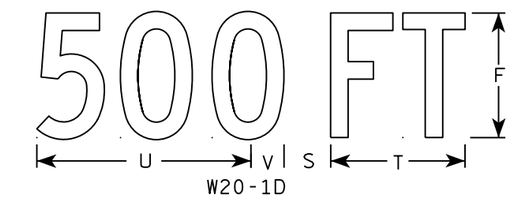
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 155 | E

7

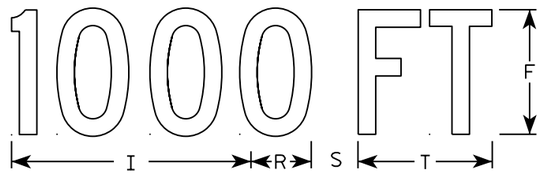
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W169P.DGN PLOT DATE : 28-DEC-2010 13:39 PLOT BY : dotsja PLOT NAME : PLOT SCALE : 2.979524:1.000000
WISDOT/CADDS SHEET 42



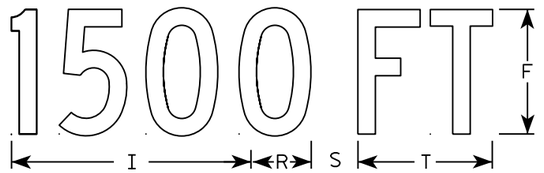
W20-1A



W20-1D



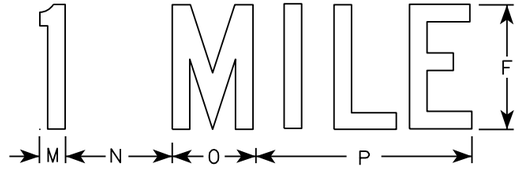
W20-1C



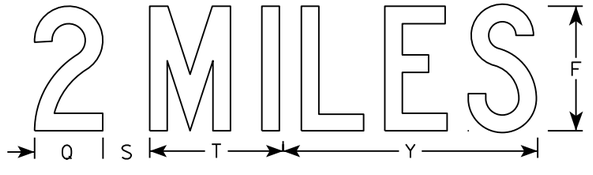
W20-1B



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

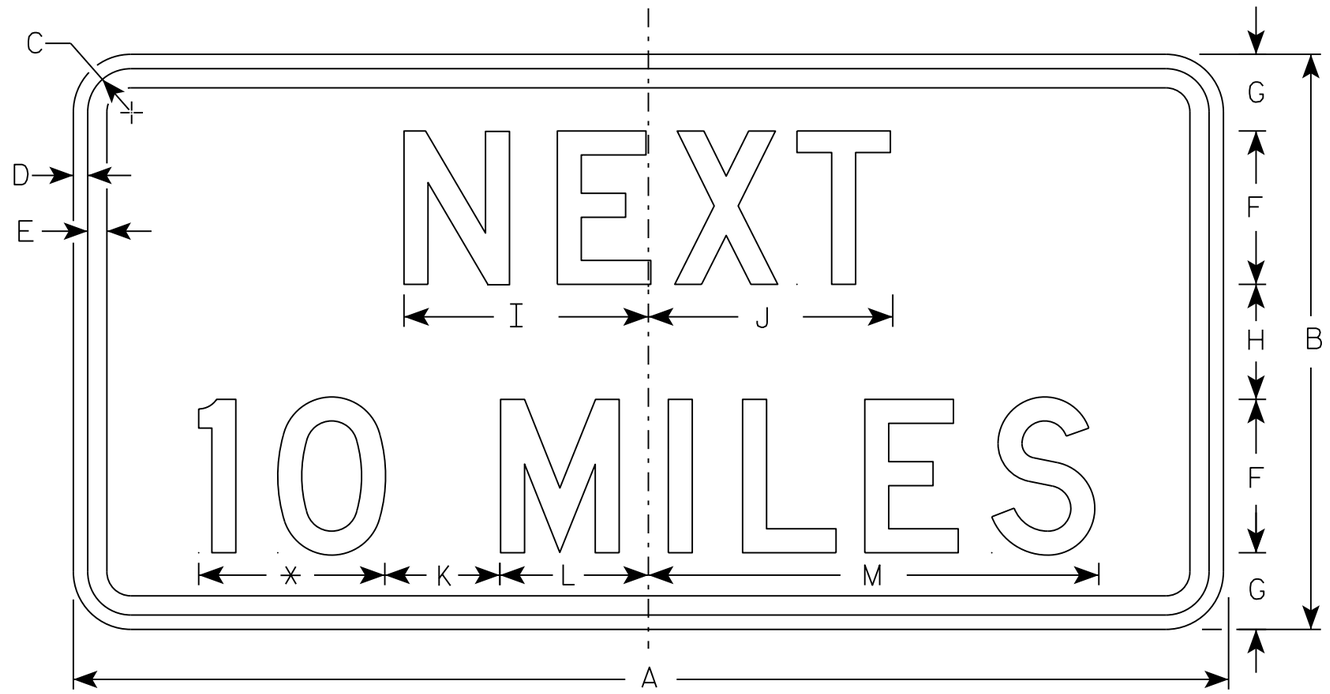
APPROVED Matthew R Rauch
for State Traffic Engineer

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 : $$ plotuser $$



W057-51

* See note 5

NOTES

1. Sign is Type II - Type F Reflective
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.
5. Round distance to the 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	36	18	1 1/8	3/8	1/2	5	2 5/8	2 3/4	7 7/8	8	5	4 1/8	15 3/8														4.5
2S	48	24	1 3/8	1/2	5/8	6	3 1/2	5	10	10 1/8	6	5 5/8	19														8.0
2M	48	24	1 3/8	1/2	5/8	6	3 1/2	5	10	10 1/8	6	5 5/8	19														8.0
3	48	24	1 3/8	1/2	5/8	6	3 1/2	5	10	10 1/8	6	5 5/8	19														8.0
4	48	24	1 3/8	1/2	5/8	6	3 1/2	5	10	10 1/8	6	5 5/8	19														8.0
5	48	24	1 3/8	1/2	5/8	6	3 1/2	5	10	10 1/8	6	5 5/8	19														8.0

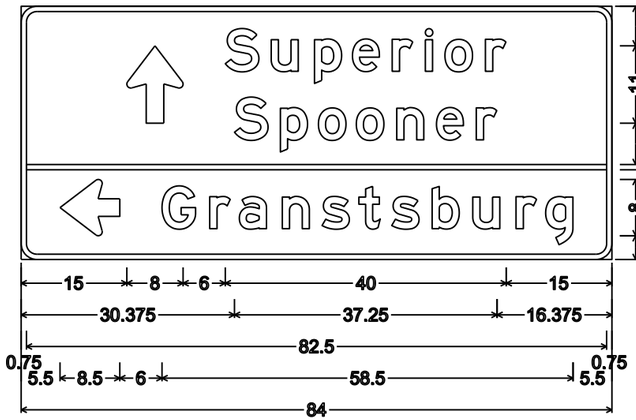
STANDARD SIGN
W057-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/14/17 PLATE NO. W057-51.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 157	E



D1-3; 2.250" Radius, 0.750" Border



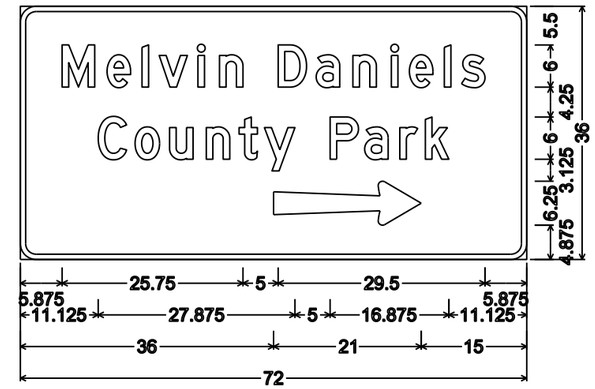
I3-1;
2.250" Radius, 0.750" Border



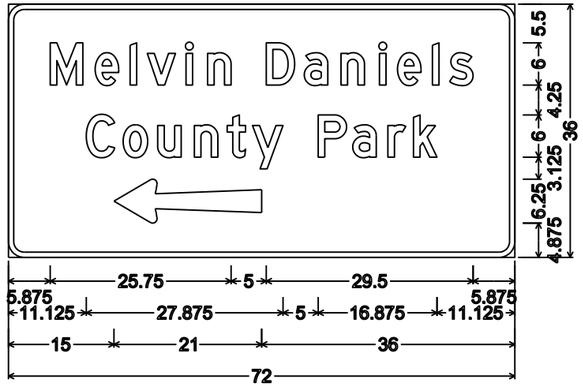
D2-2; 2.250" Radius, 0.750" Border

NOTES

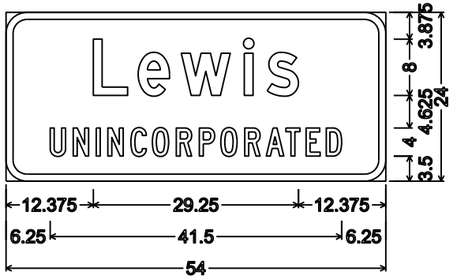
1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green except as noted
   Message - White
3. Message Series - E except as noted



D7-68R; 2.250" Radius, 0.750" Border, White on Brown;
"Melvin" D; "Daniels" D; "County" D; "Park" D



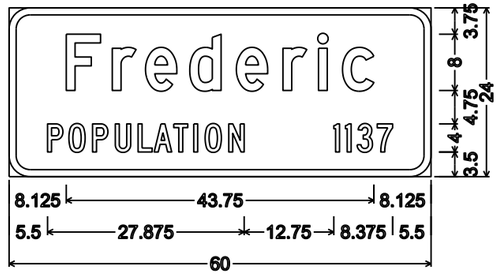
D7-68L; 2.250" Radius, 0.750" Border, White on Brown;
"Melvin" D; "Daniels" D; "County" D; "Park" D



I2-3;
3.000" Radius, 1.000" Border
"Lewis" D; "UNINCORPORATED" C



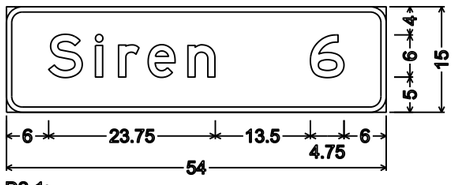
I2-3;
3.000" Radius, 1.000" Border,
"Siren" D; "POPULATION" C; "806" C



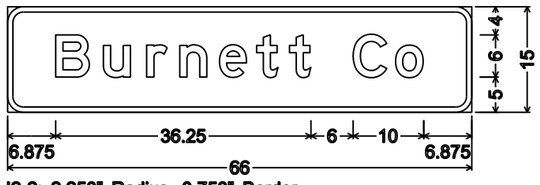
I2-3;
3.000" Radius, 1.000" Border,
"Frederic" D; "POPULATION" C; "1137" C



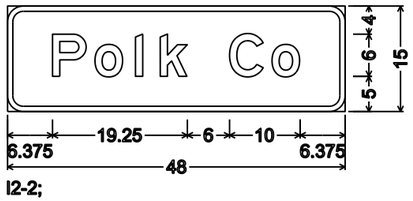
D2-1; 2.250" Radius, 0.750" Border



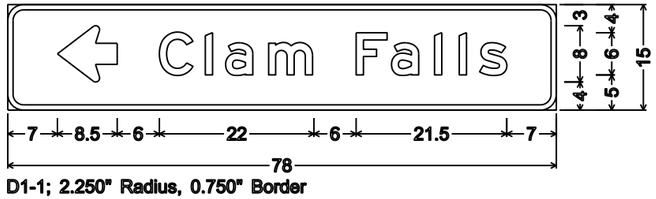
D2-1;
2.250" Radius, 0.750" Border



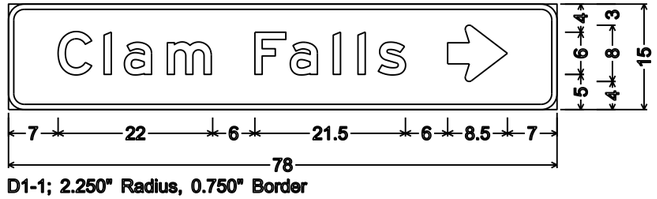
I2-2; 2.250" Radius, 0.750" Border



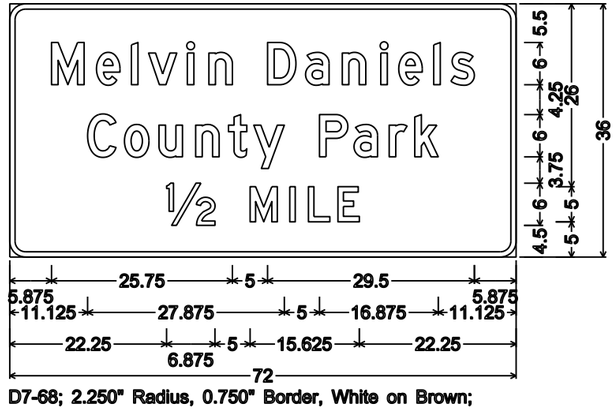
I2-2;
2.250" Radius, 0.750" Border



D1-1; 2.250" Radius, 0.750" Border



D1-1; 2.250" Radius, 0.750" Border

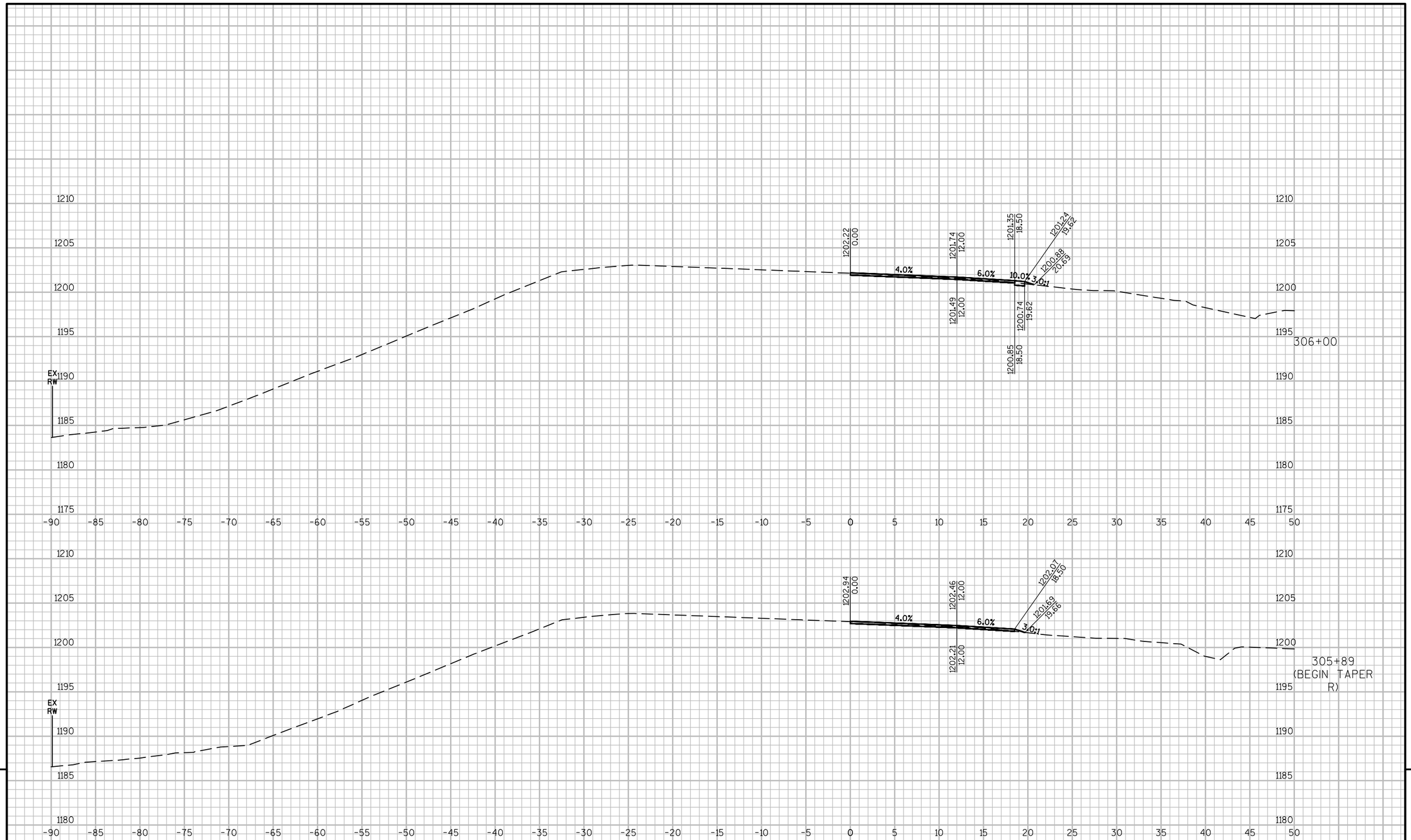


D7-68; 2.250" Radius, 0.750" Border, White on Brown;
"Melvin" D; "Daniels" D; "County" D; "Park" D; "½" D; "MILE" D

7

7

PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK	PERMANENT SIGNING	SHEET NO: 158	E



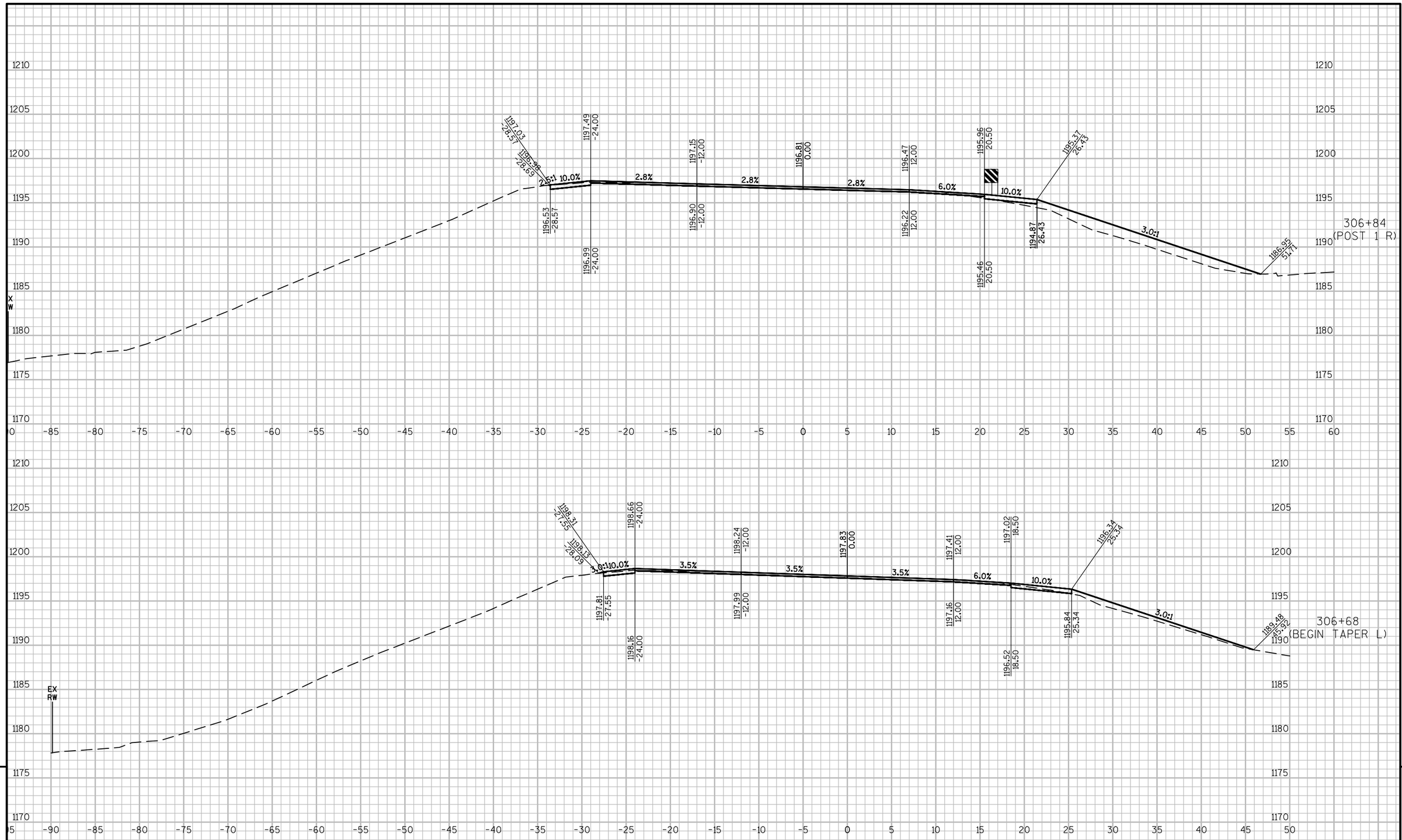
9

9

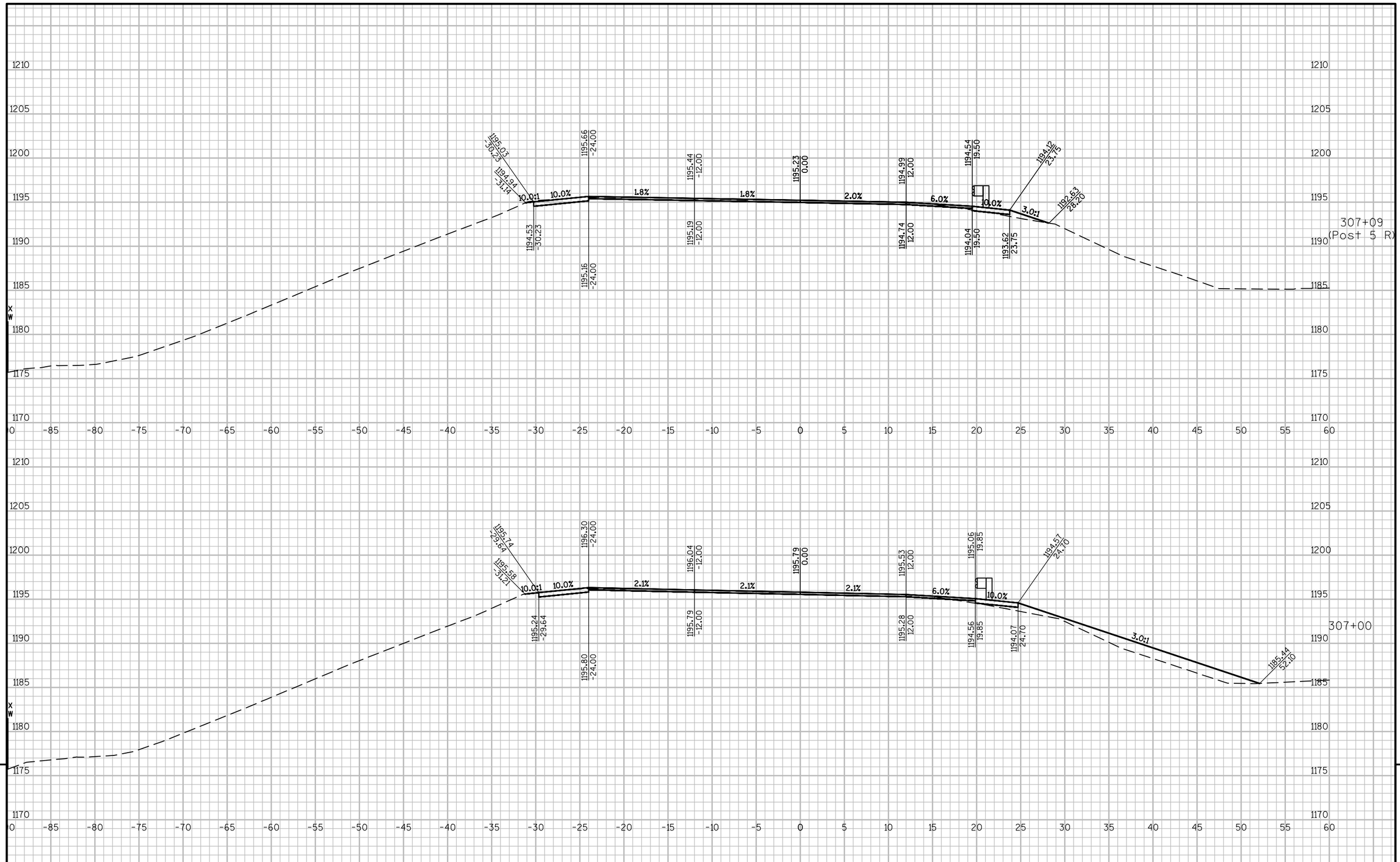
PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 159	E

FILE NAME : P:\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201

PLOT DATE : 9/22/2017 9:15 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : PLOT SCALE : 1 IN:10 FT

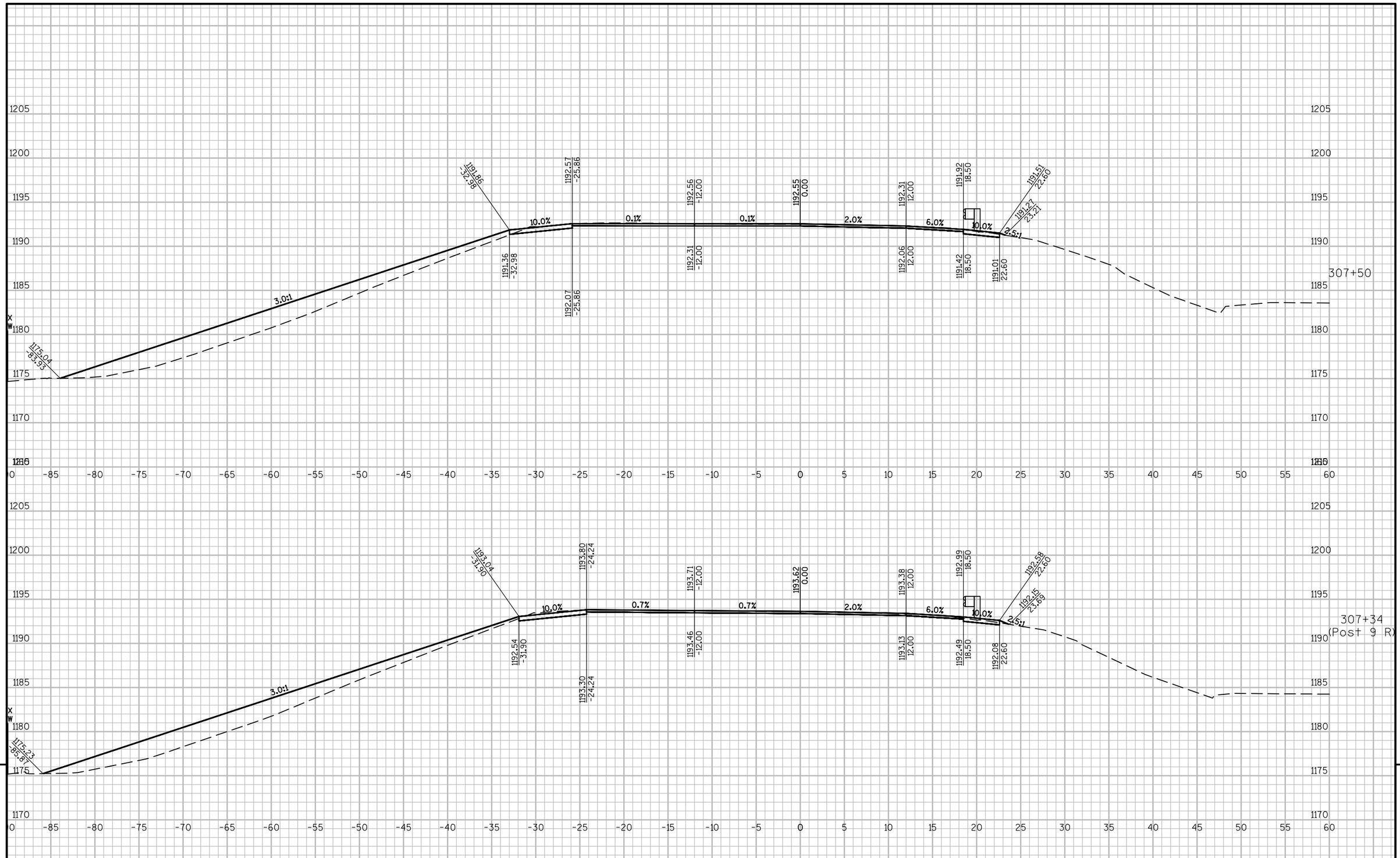


PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 160	E

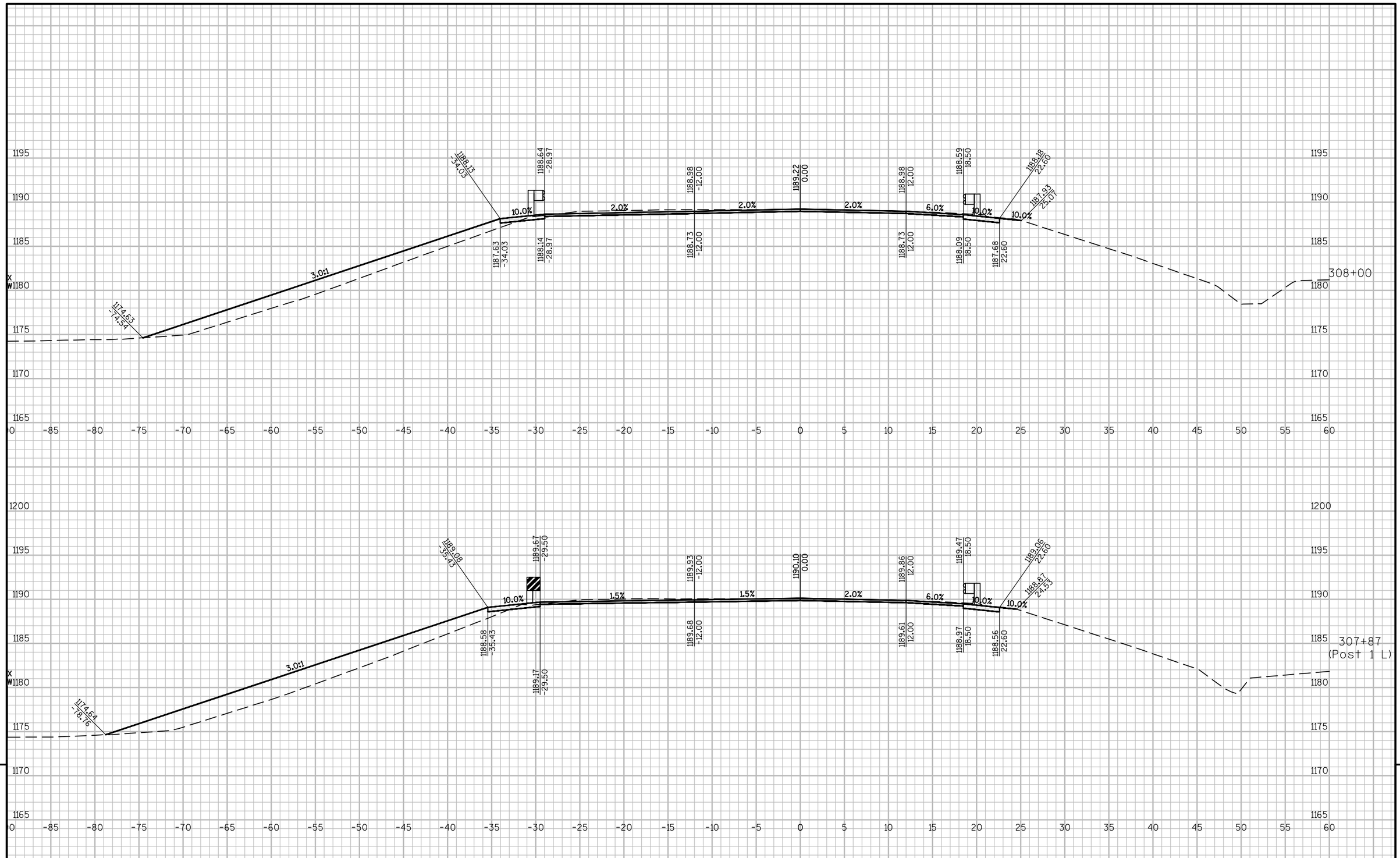


9 9

PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 161	E



PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 162	E

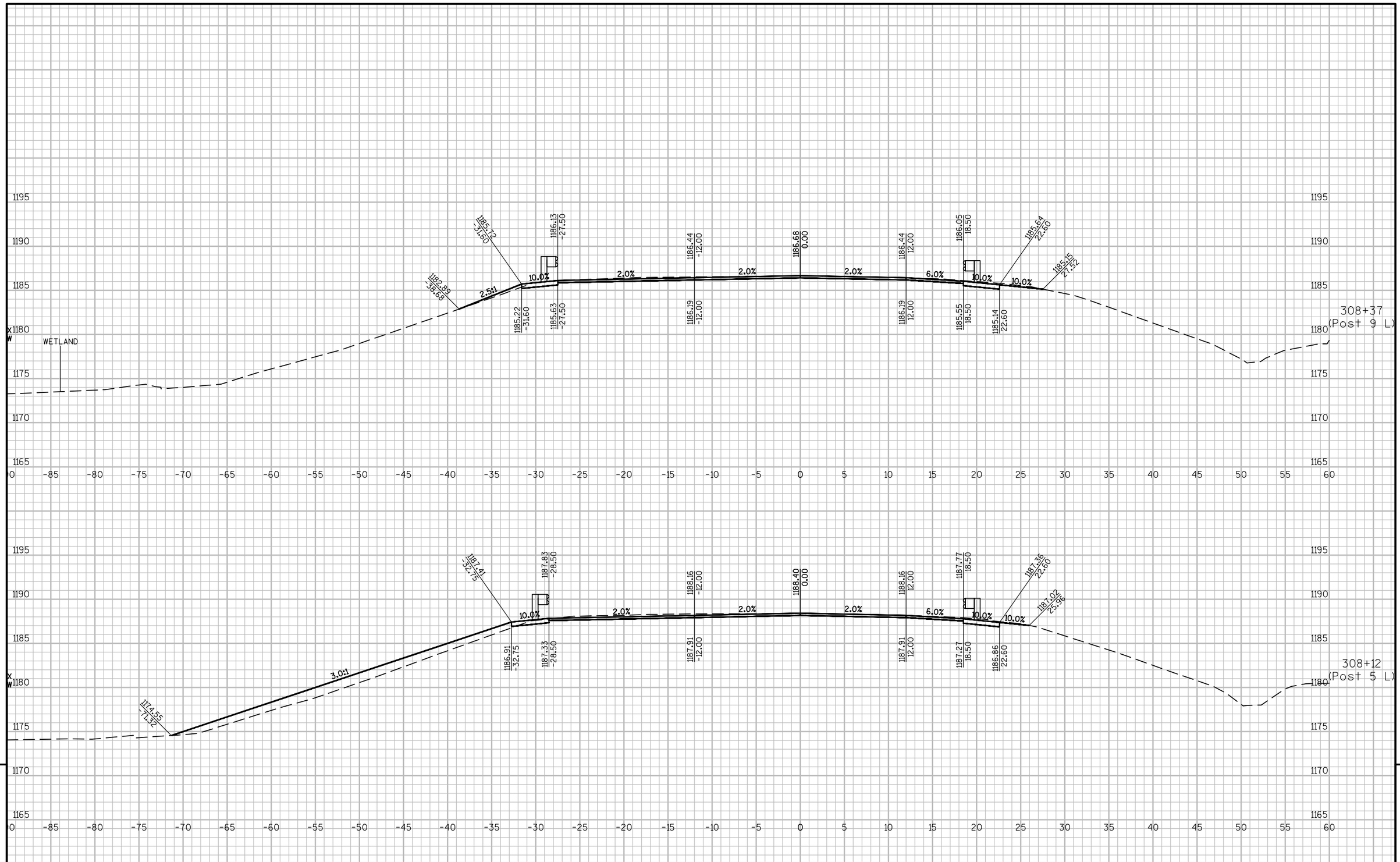


PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 163	E

FILE NAME : P:\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090205

PLOT DATE : 9/22/2017 9:18 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : PLOT SCALE : 1 IN:10 FT

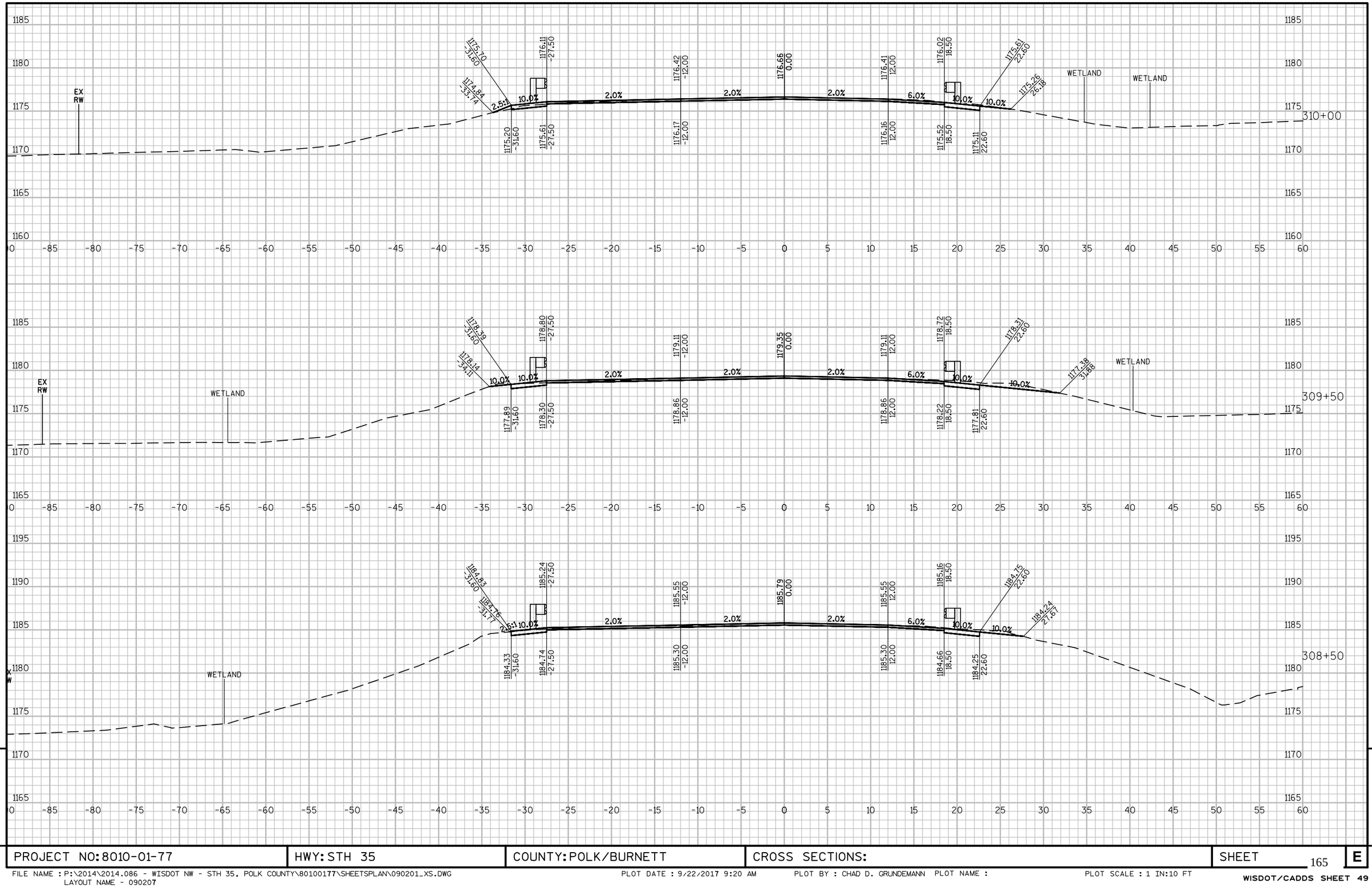
WISDOT/CADDS SHEET 49



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PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 164	E

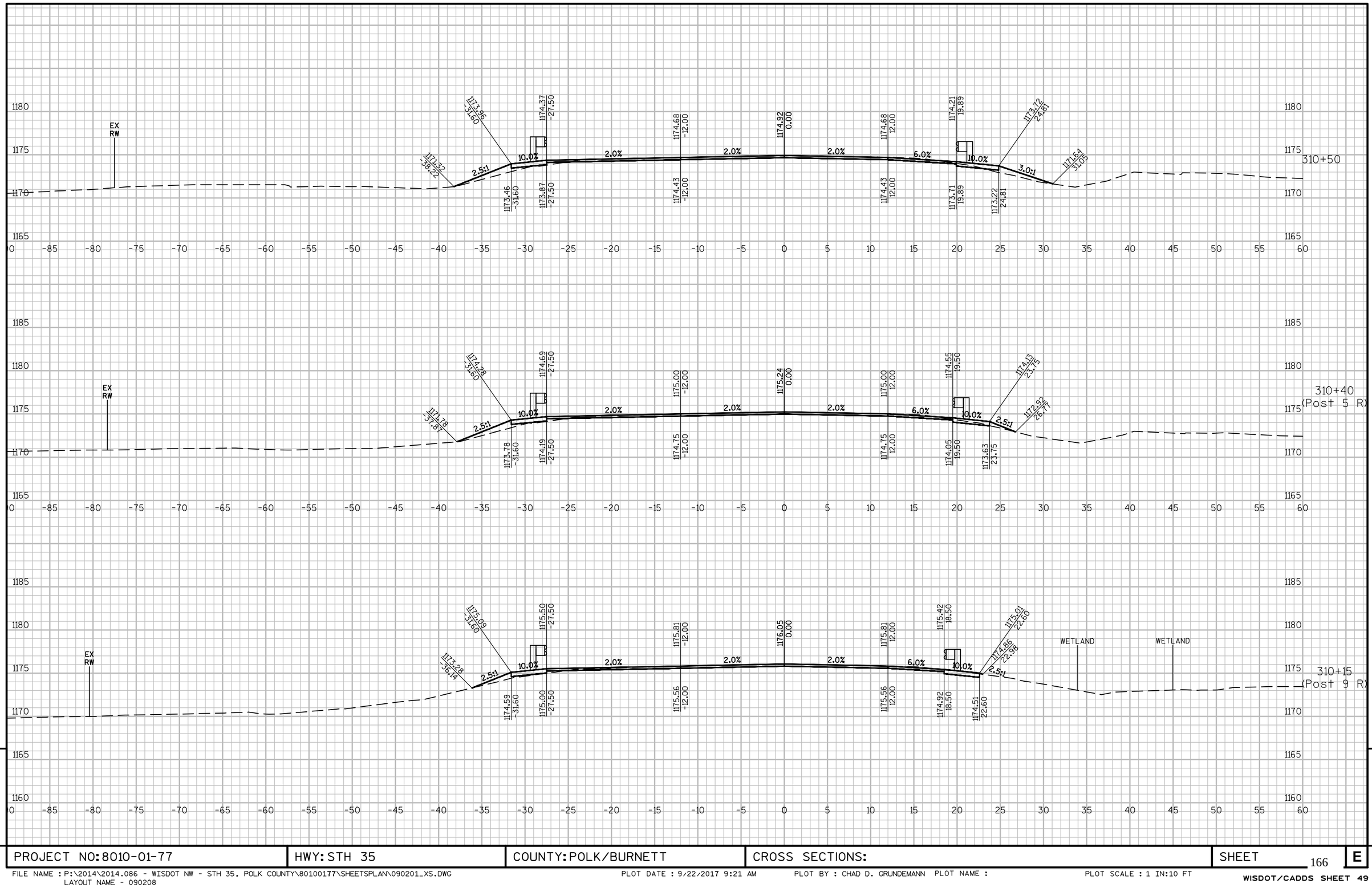


PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 165	E

FILE NAME : P:\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090207

PLOT DATE : 9/22/2017 9:20 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

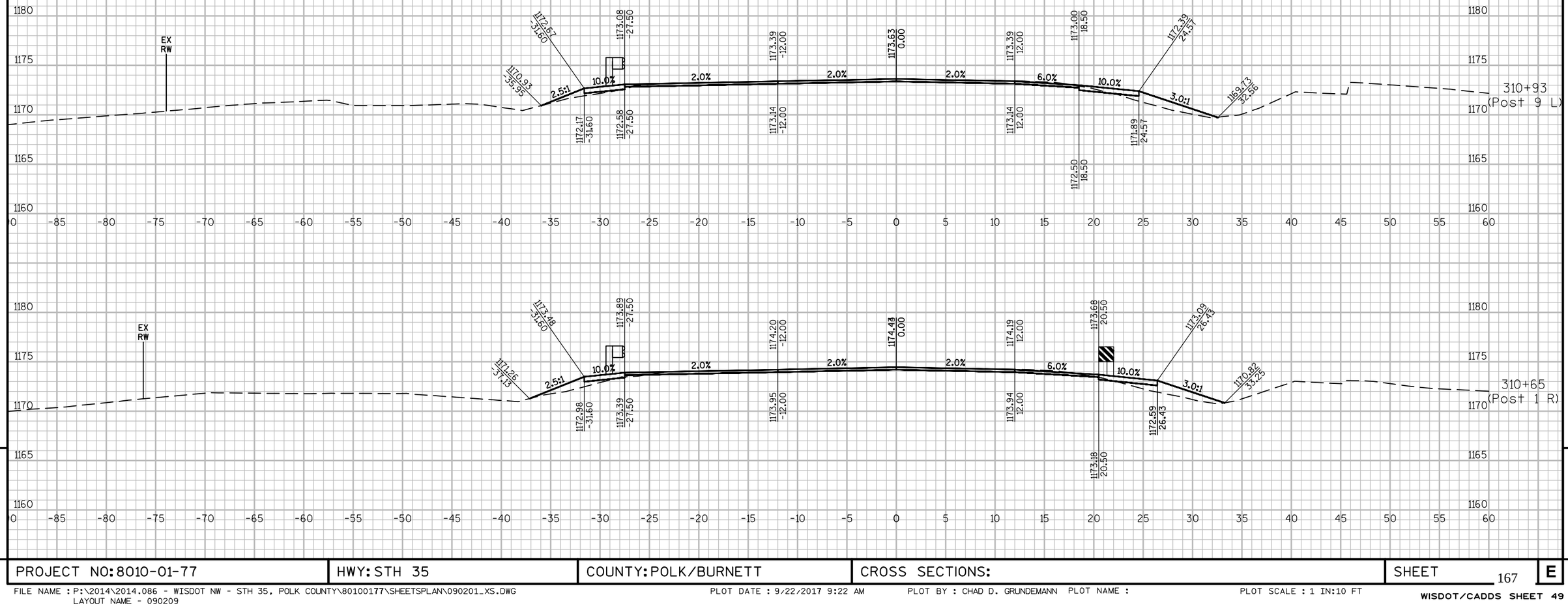


PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 166	E

FILE NAME : P:\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090208

PLOT DATE : 9/22/2017 9:21 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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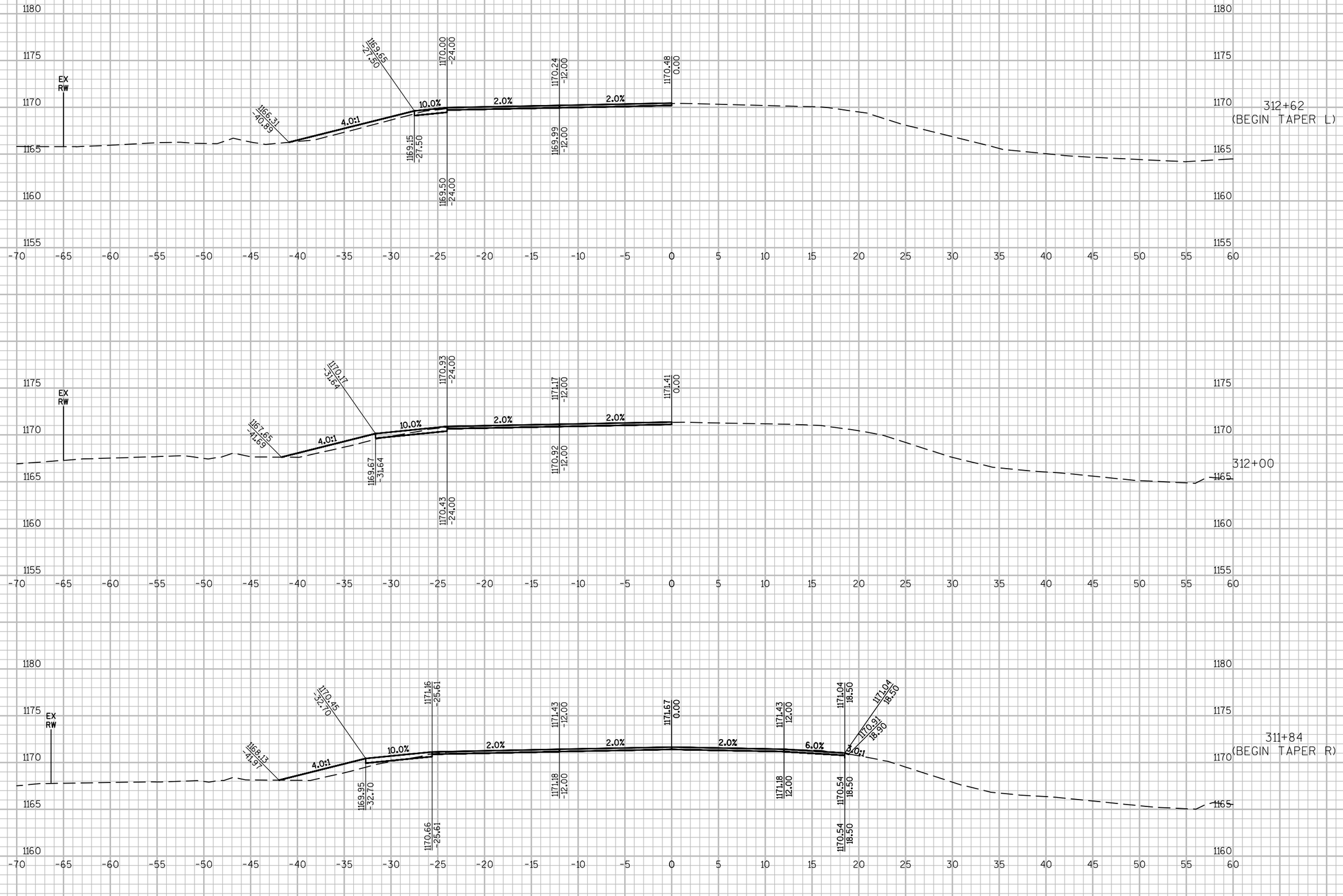
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PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 167	E

FILE NAME : P:\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090209

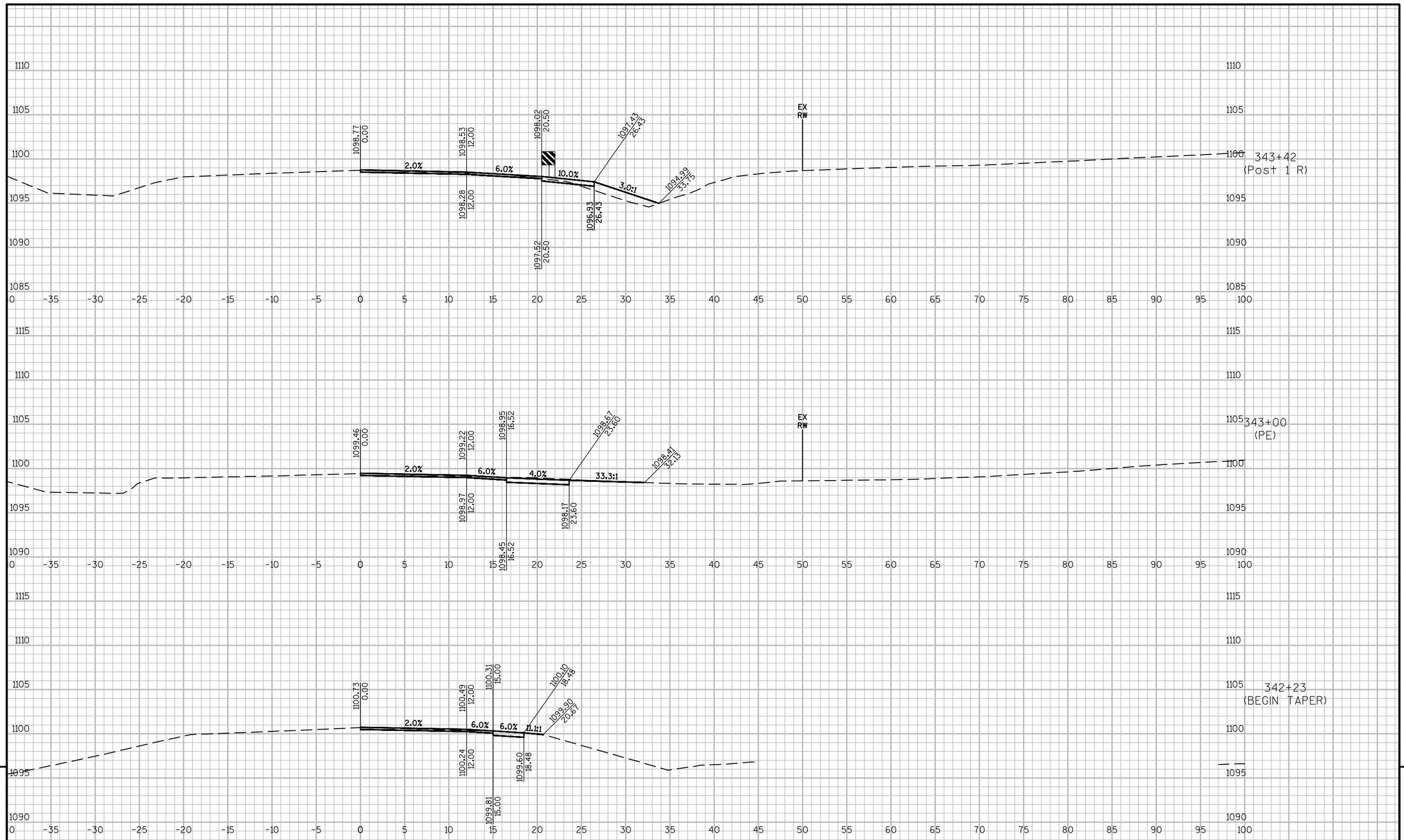
PLOT DATE : 9/22/2017 9:22 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : PLOT SCALE : 1 IN:10 FT

PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 168	E



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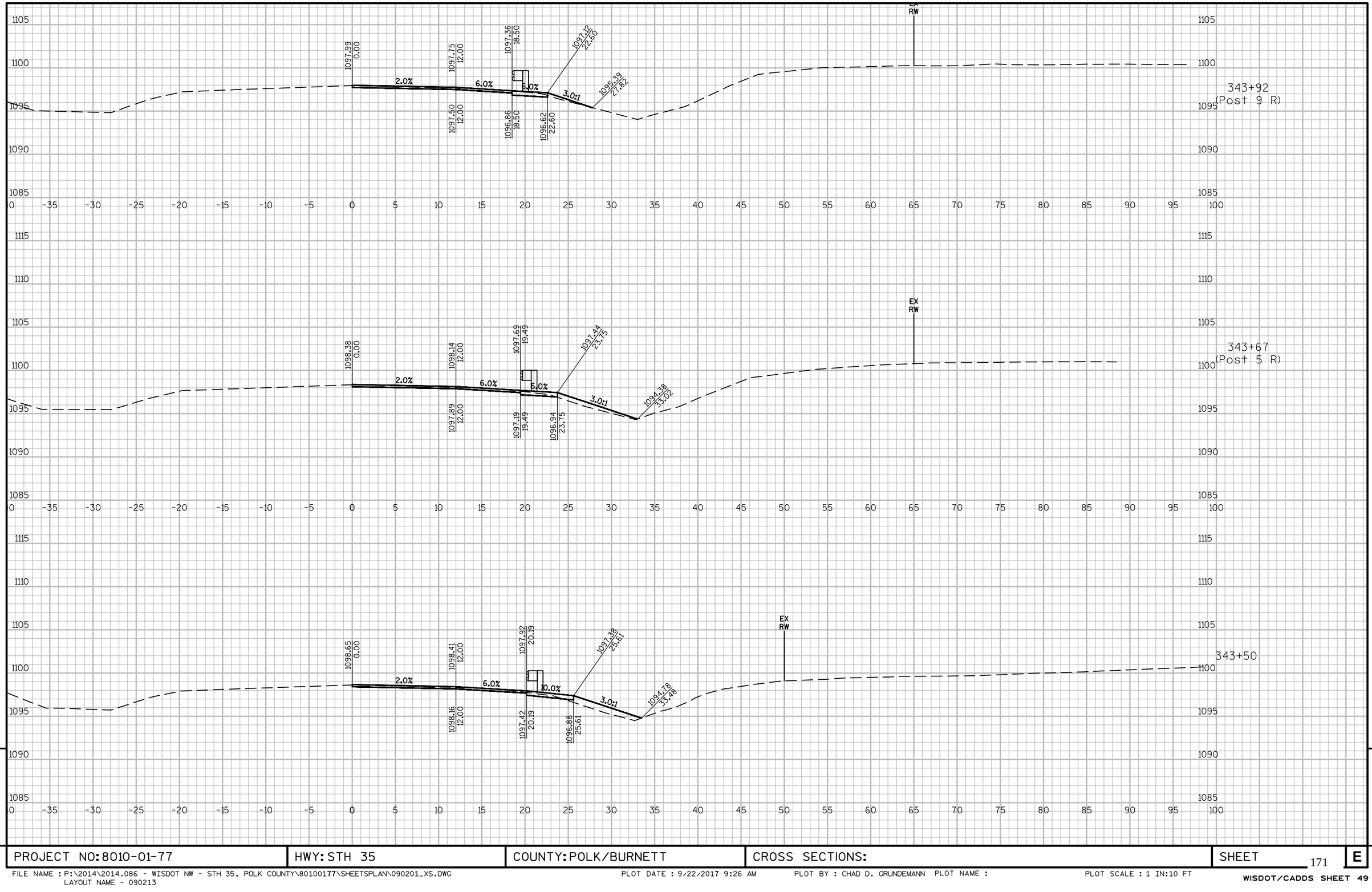
PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 169	E



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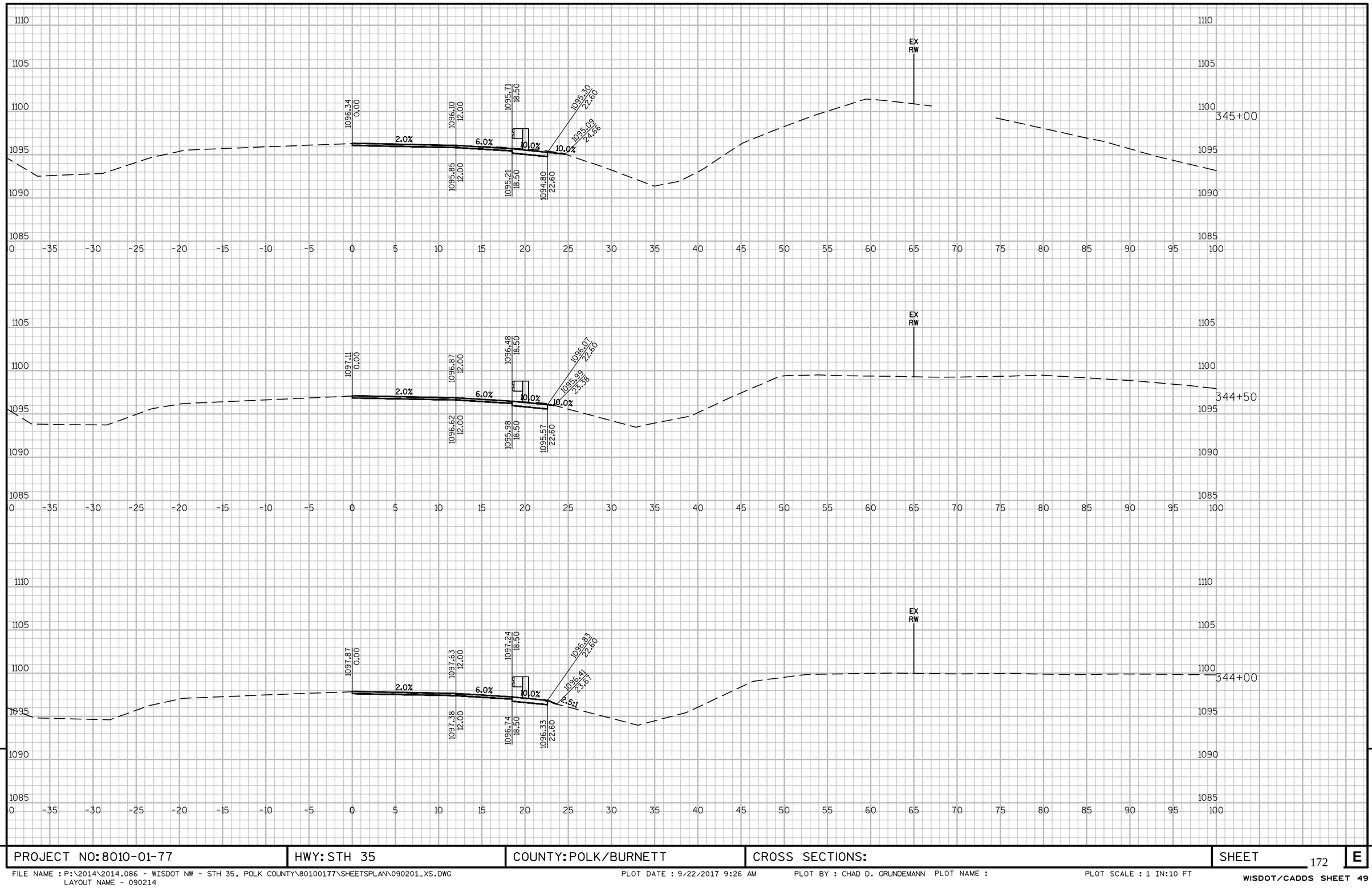
PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 170	E



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PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 171	E

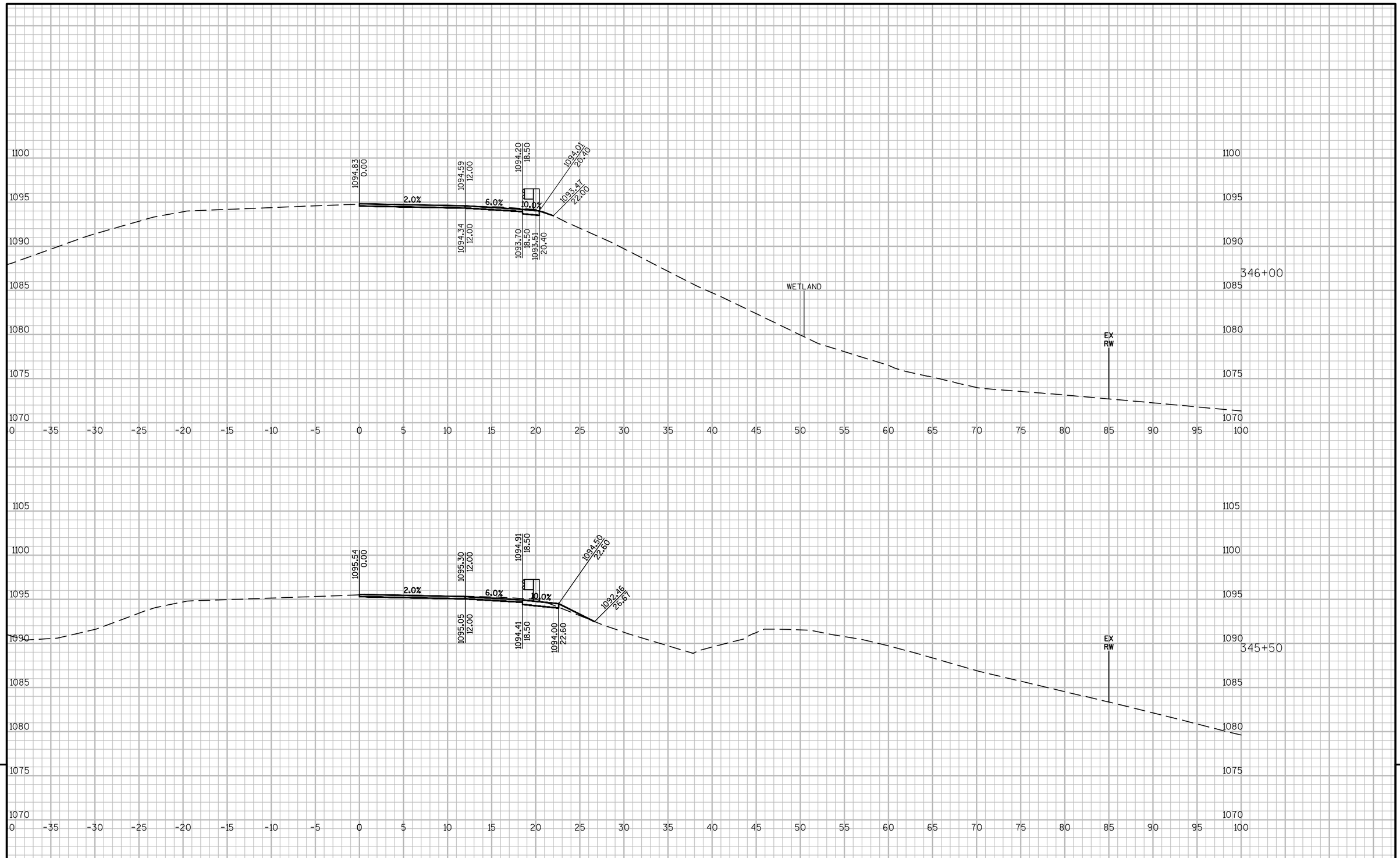


PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 172	E

FILE NAME : P:\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090214

PLOT DATE : 9/22/2017 9:26 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



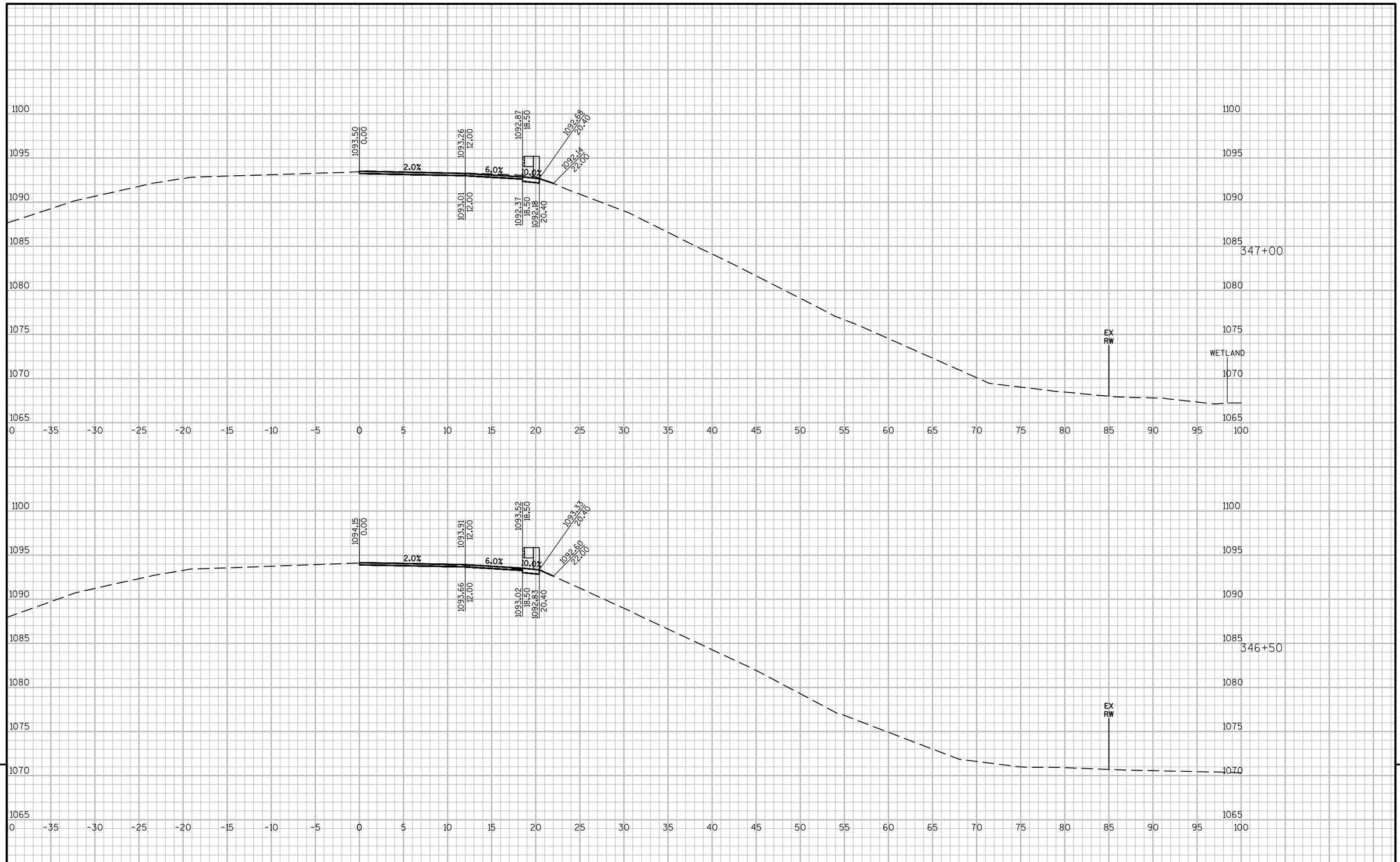
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PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 173	E

FILE NAME : P:\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090215

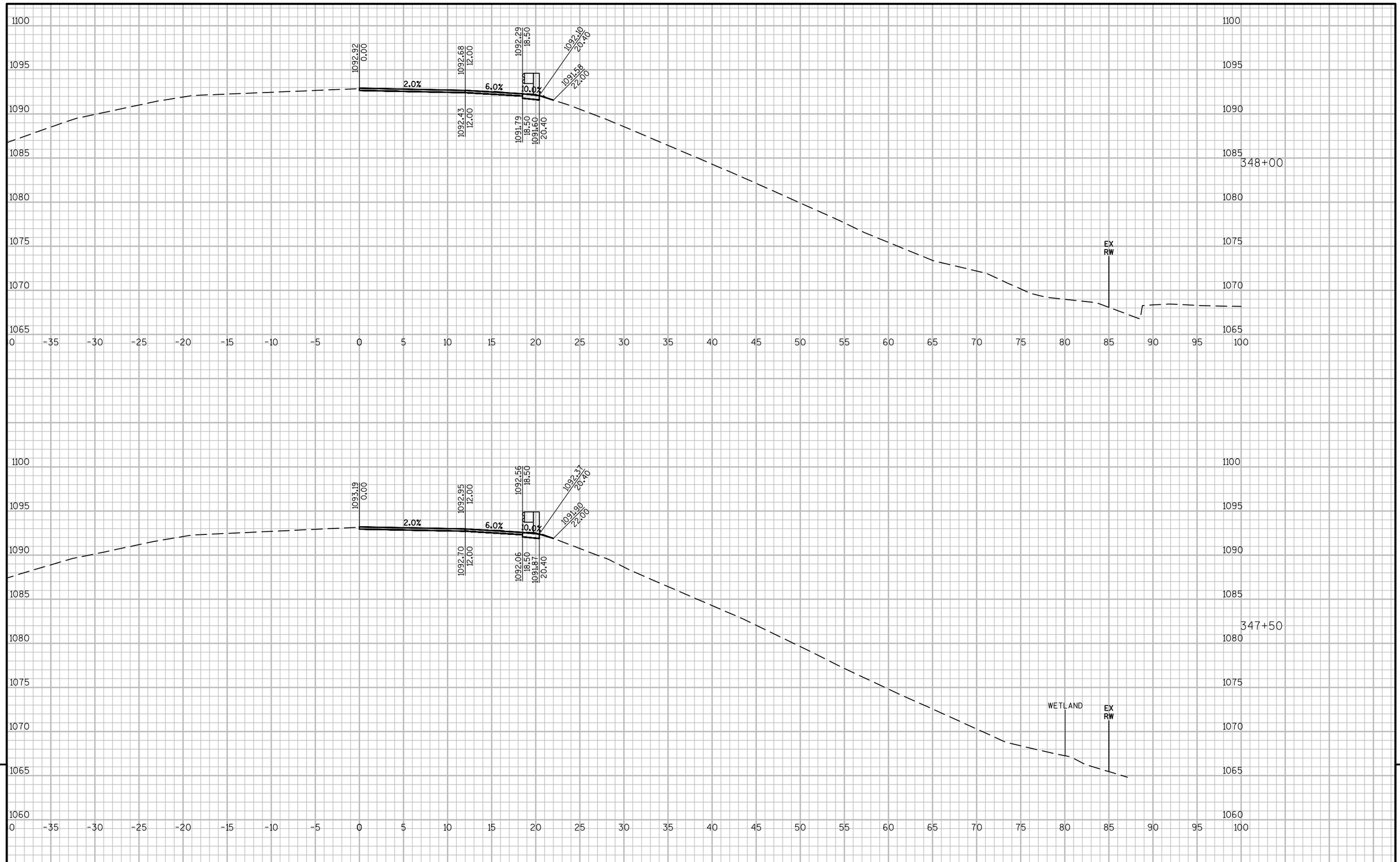
PLOT DATE : 9/22/2017 9:27 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : PLOT SCALE : 1 IN:10 FT



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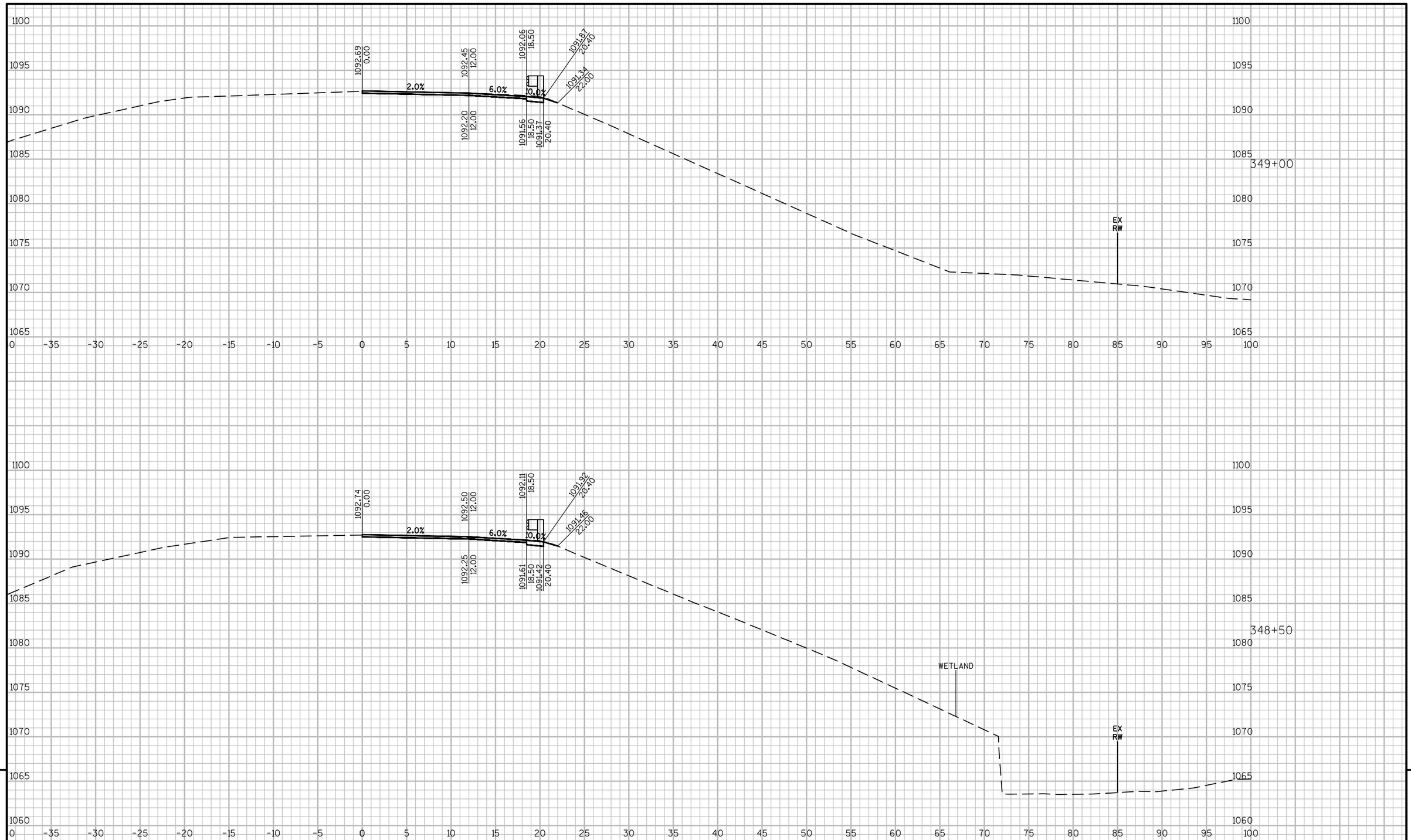
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PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 174	E



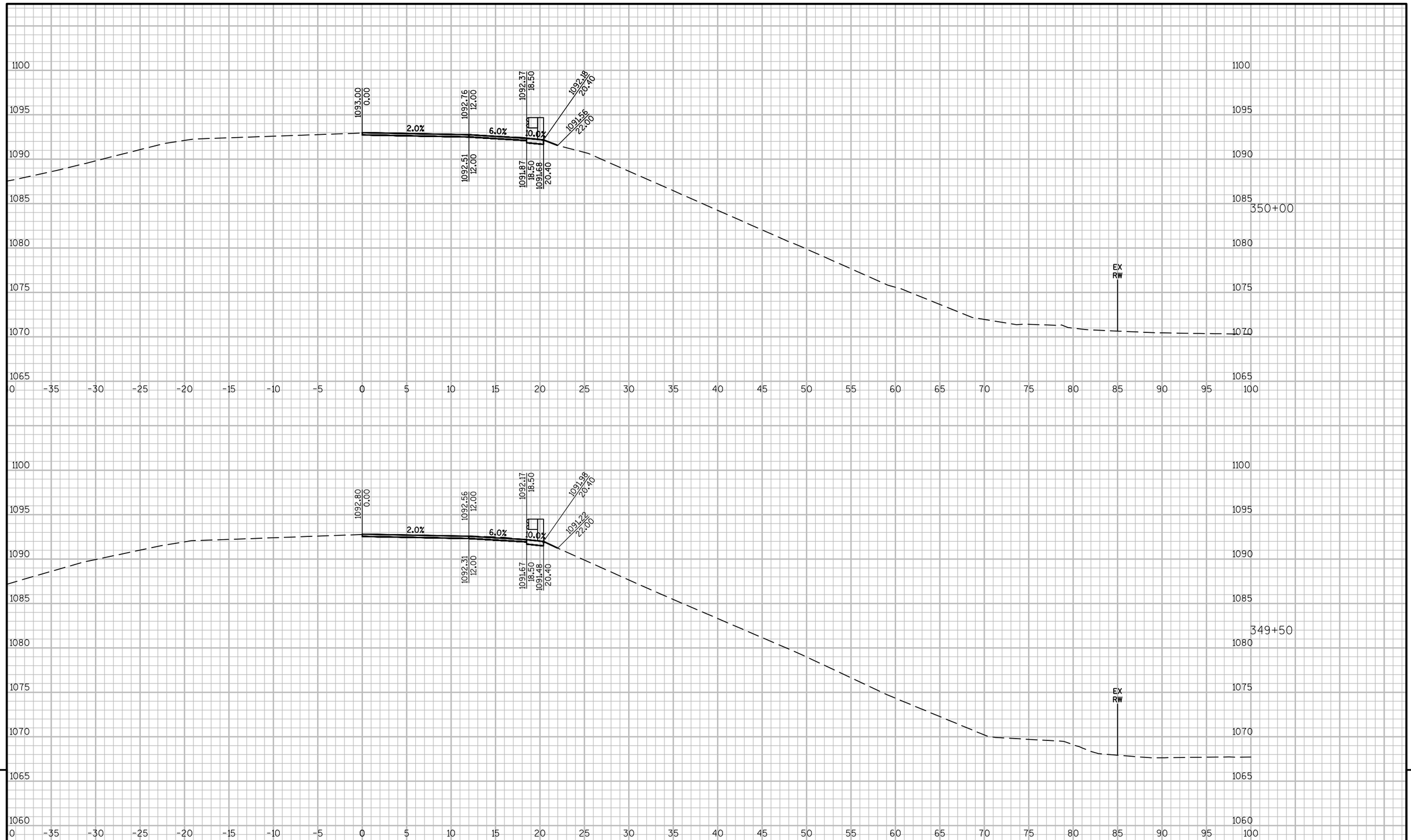
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PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 175	E



9 9

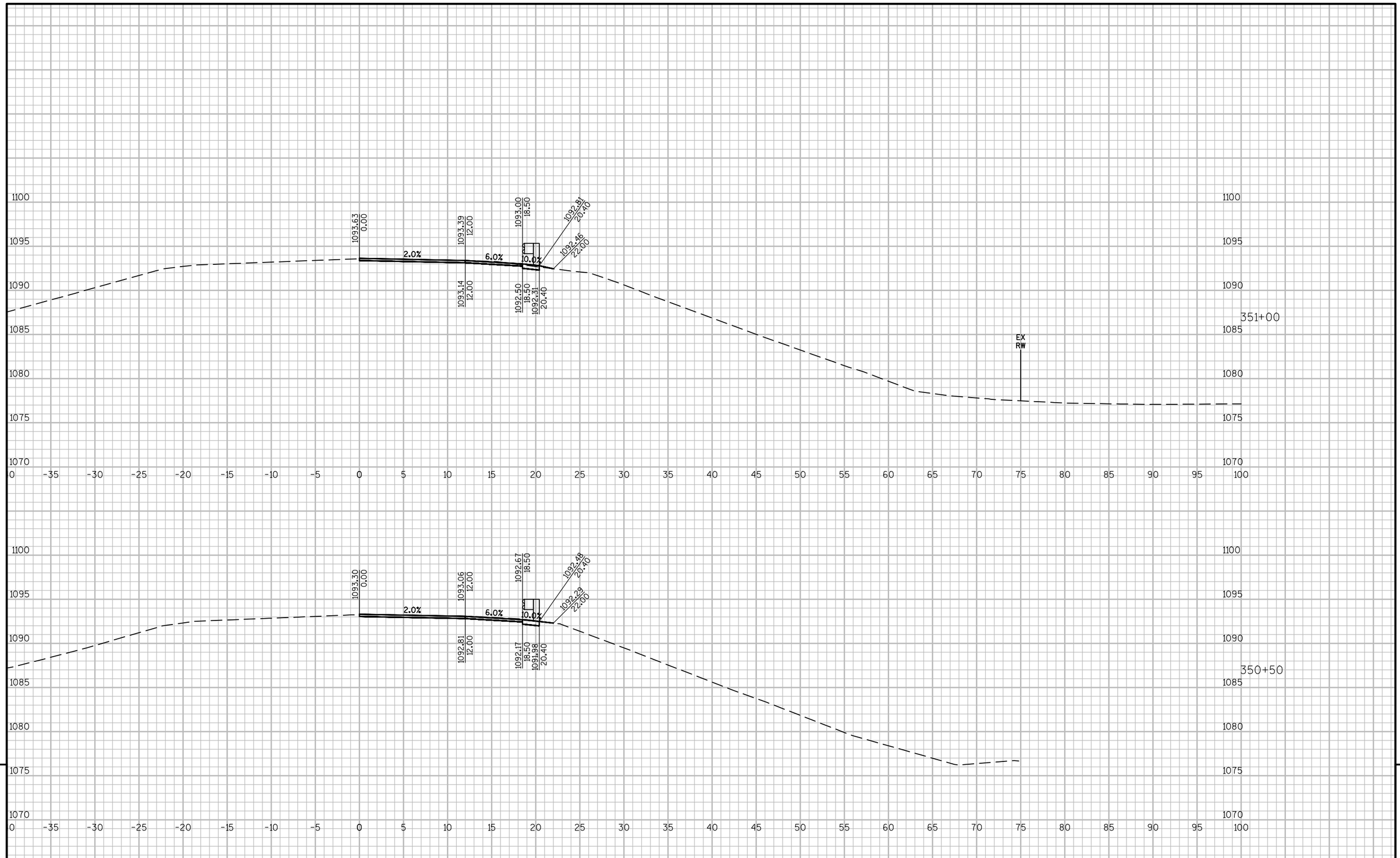
PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 176	E



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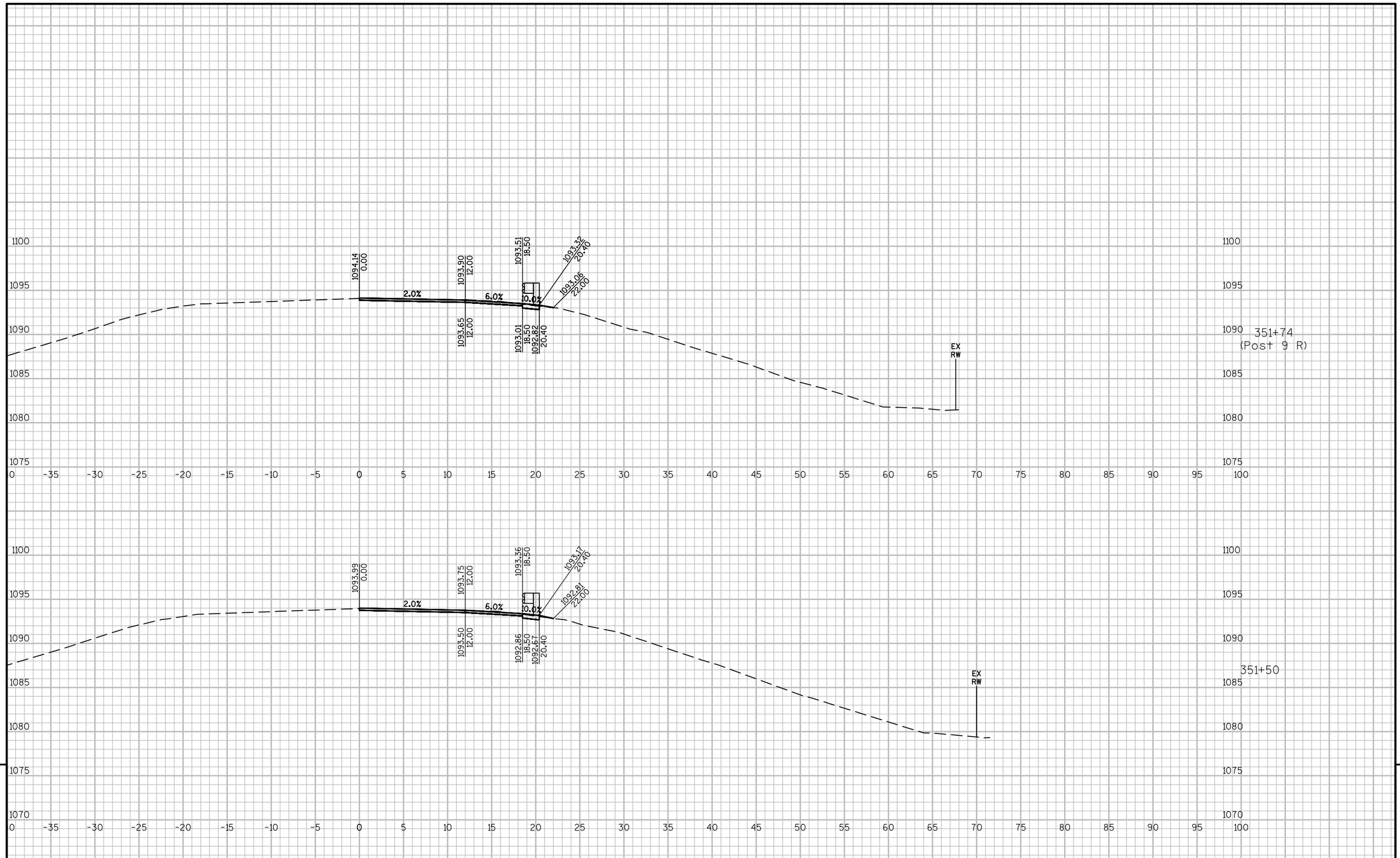
PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 177	E



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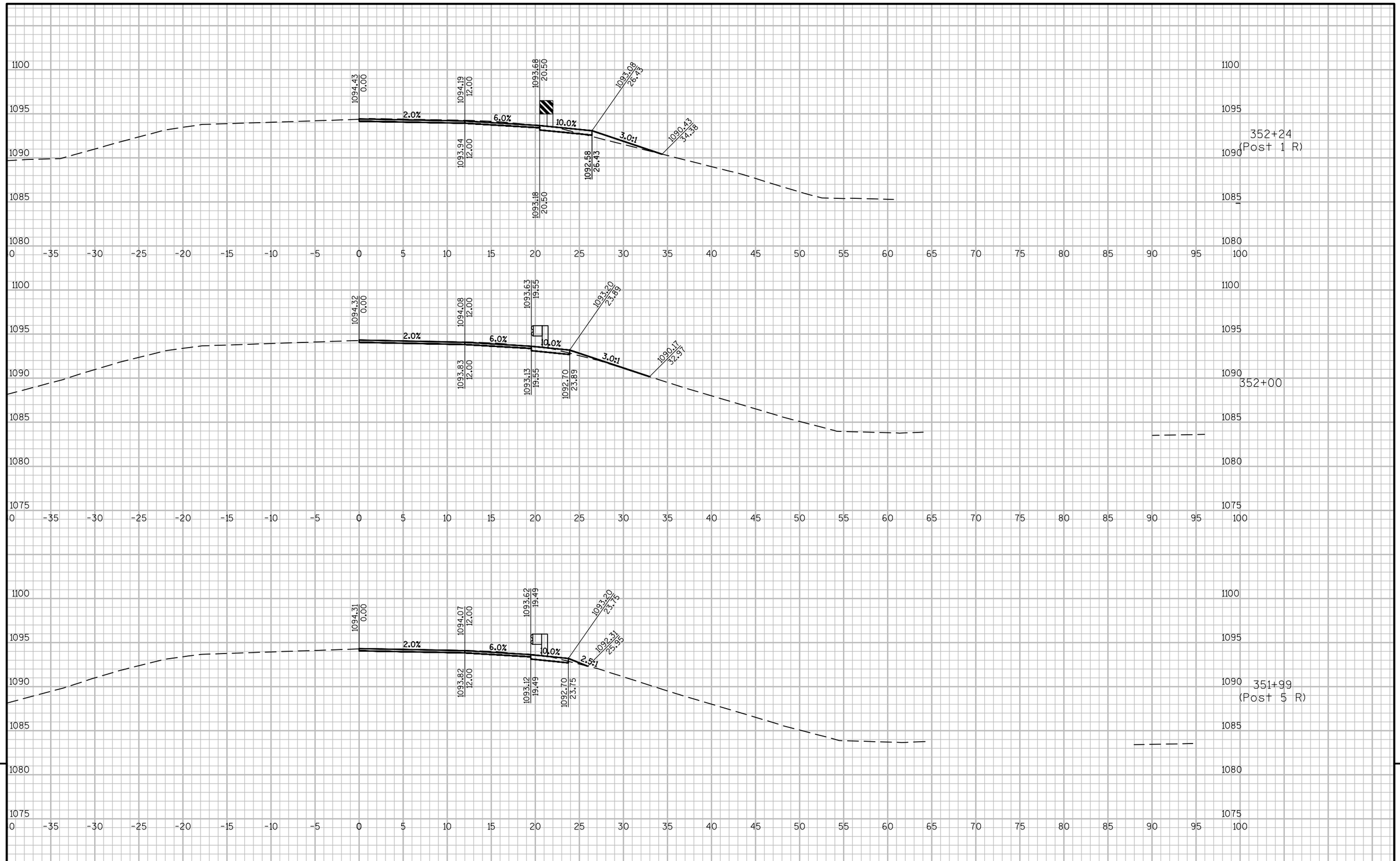
PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 178	E



9

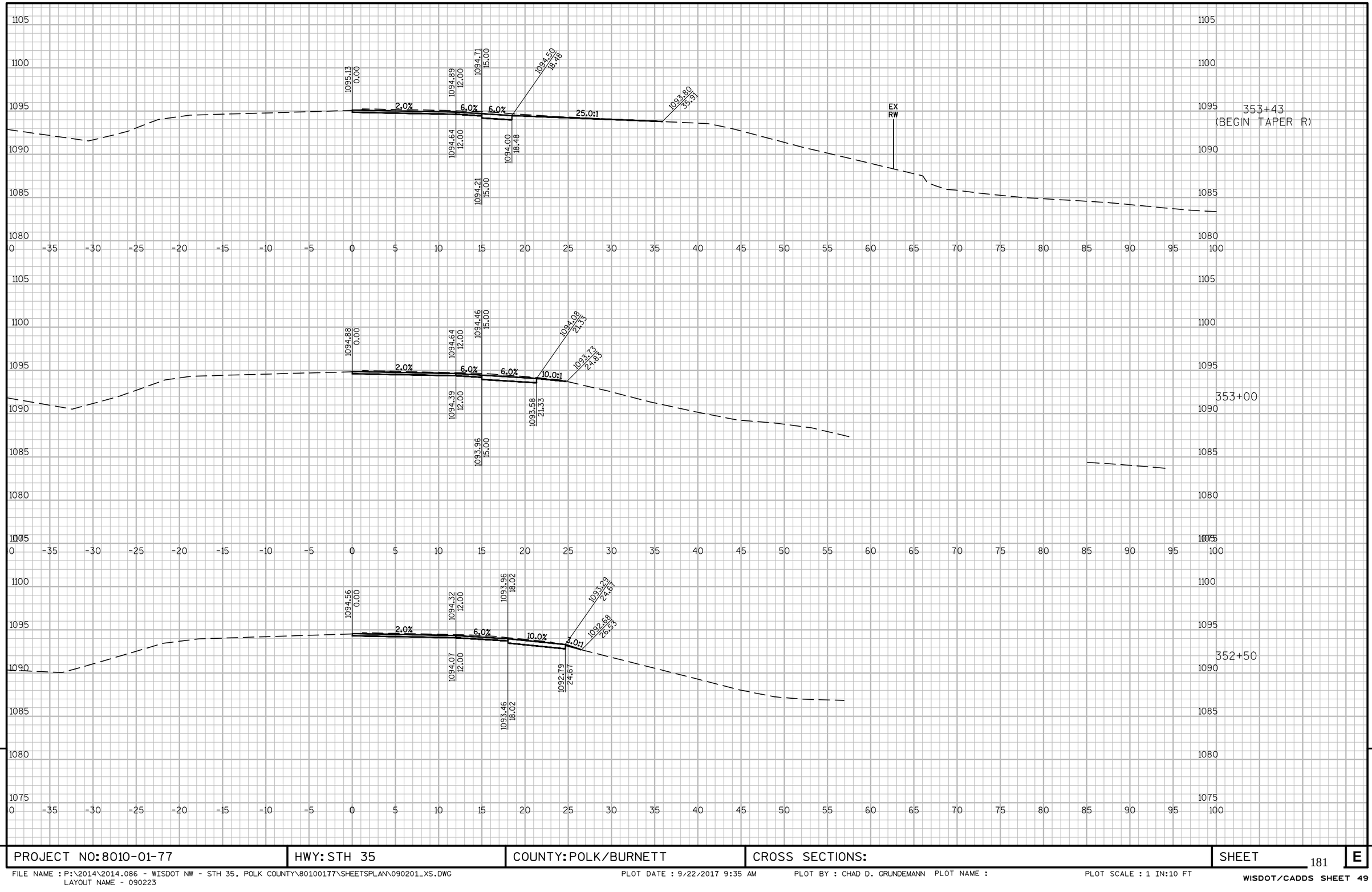
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PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 179	E



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PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 180	E

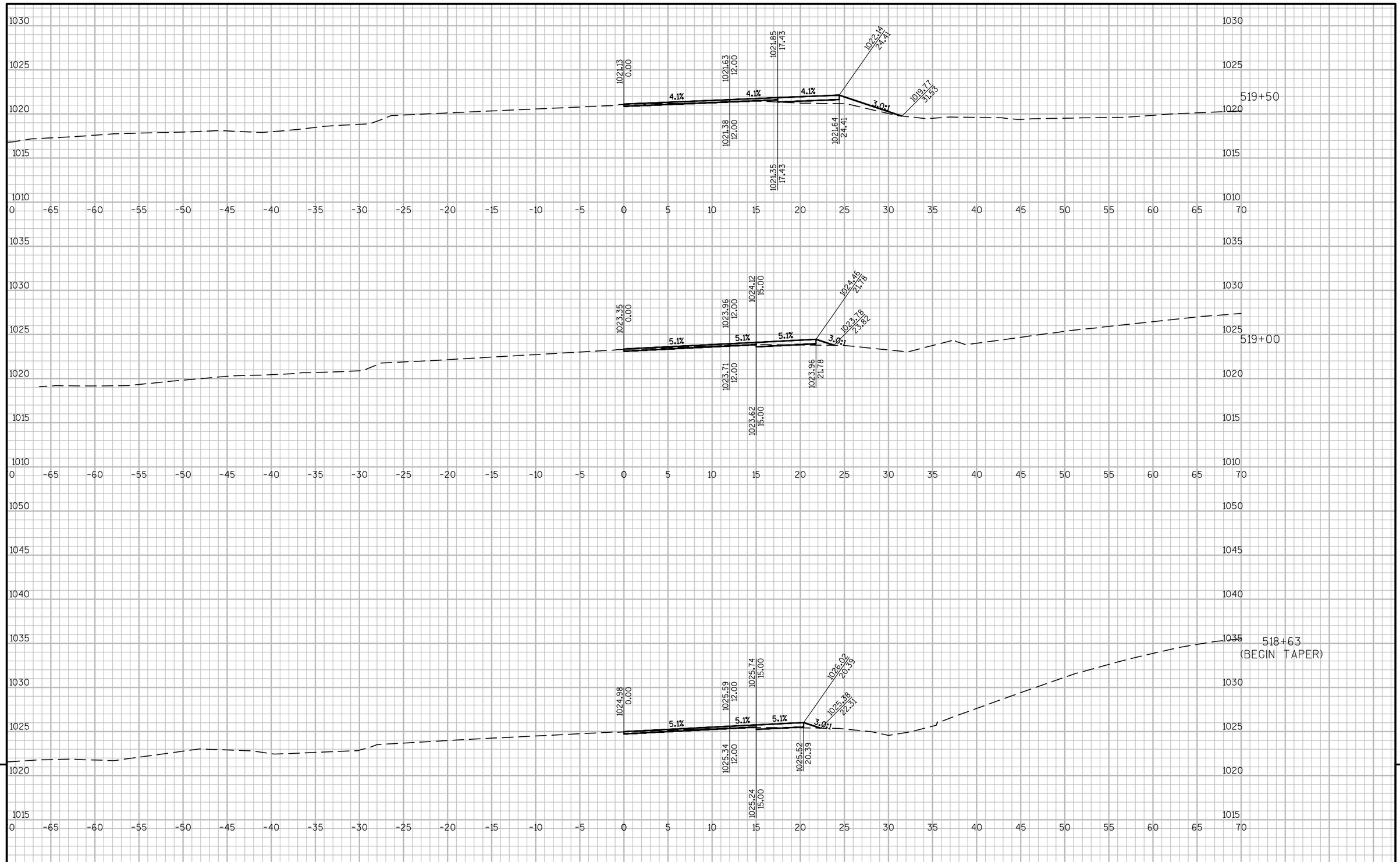


PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 181	E

FILE NAME : P:\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090223

PLOT DATE : 9/22/2017 9:35 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

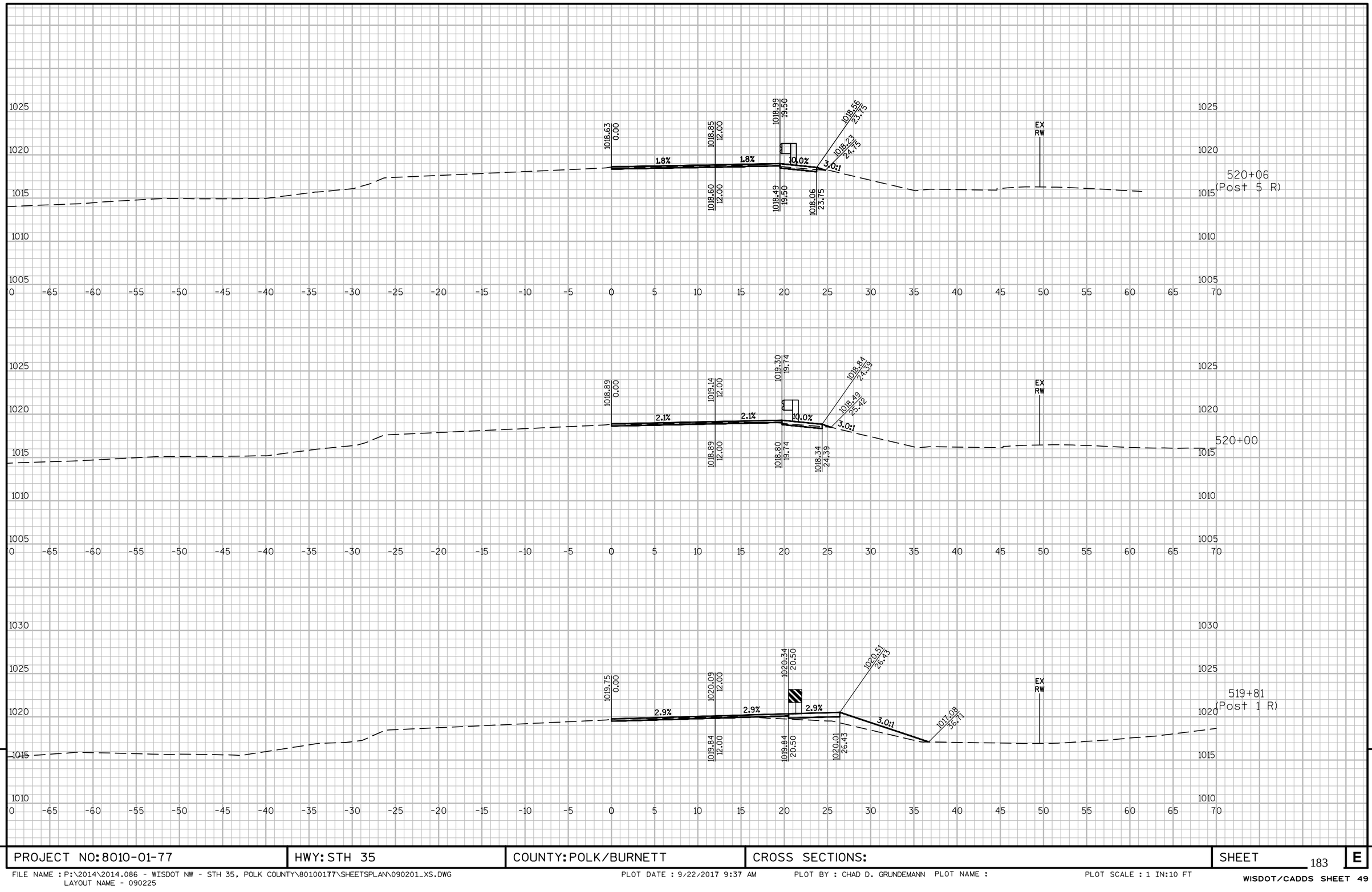


PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 182	E

FILE NAME : P:\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090224

PLOT DATE : 9/22/2017 9:36 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

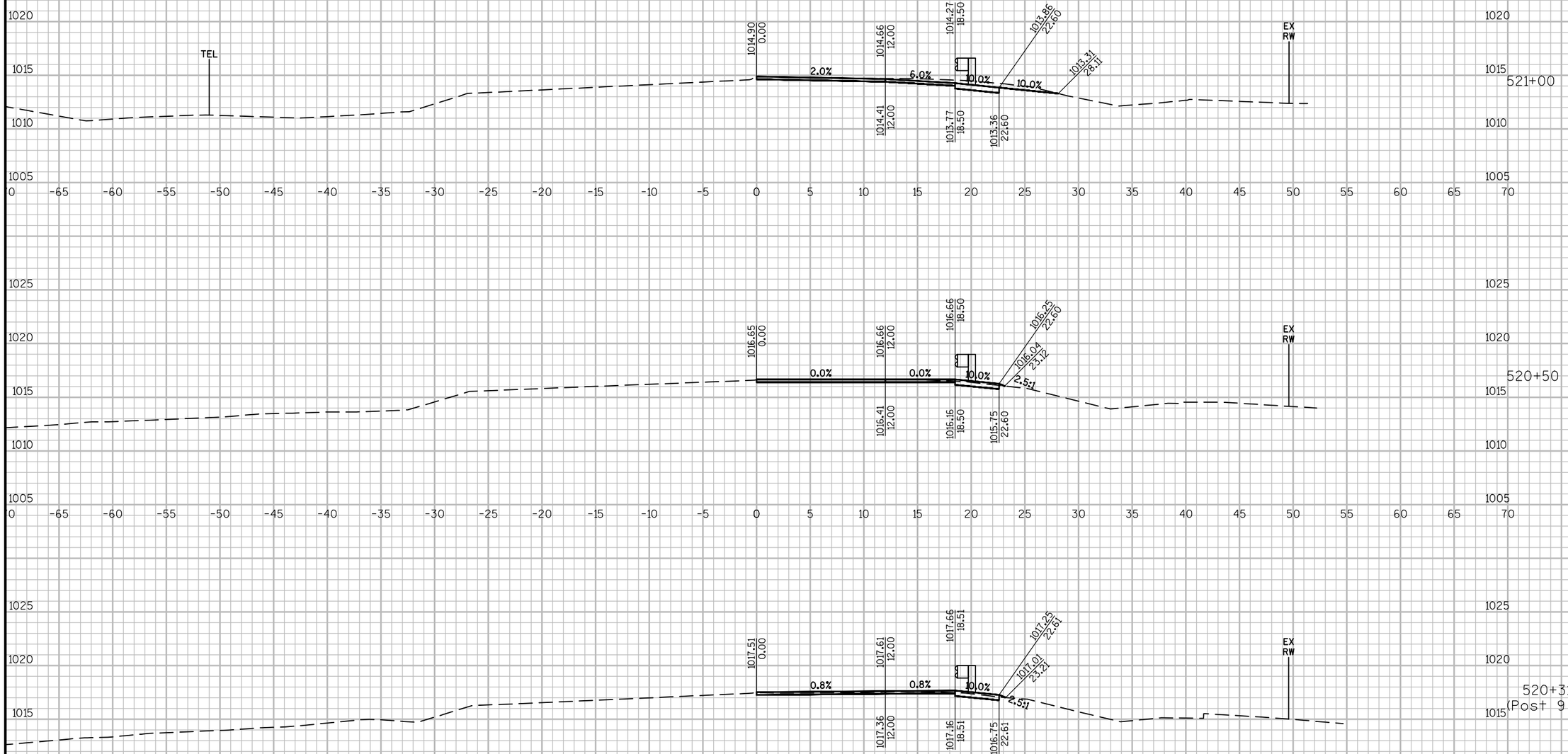


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PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 183	E

FILE NAME : P:\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090225
PLOT DATE : 9/22/2017 9:37 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



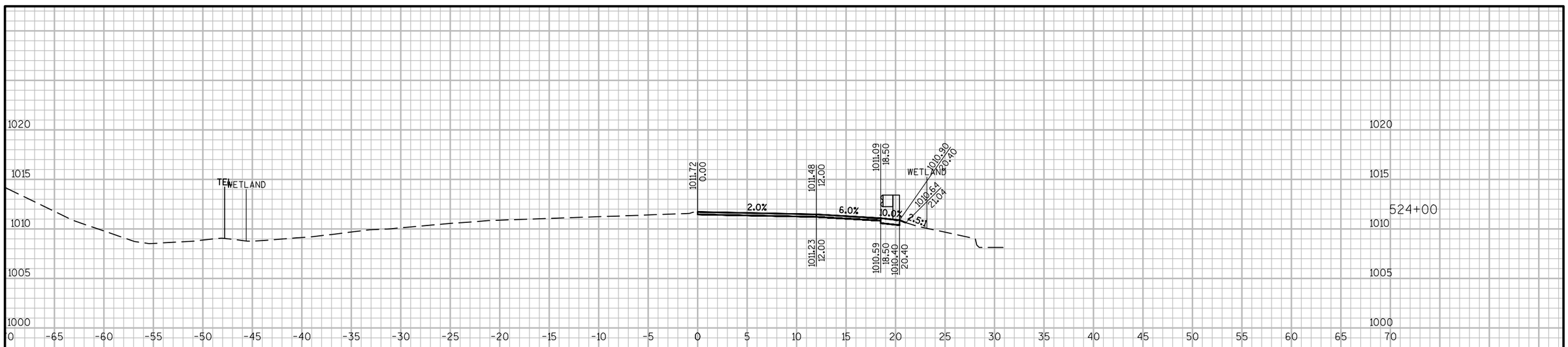
PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 184	E

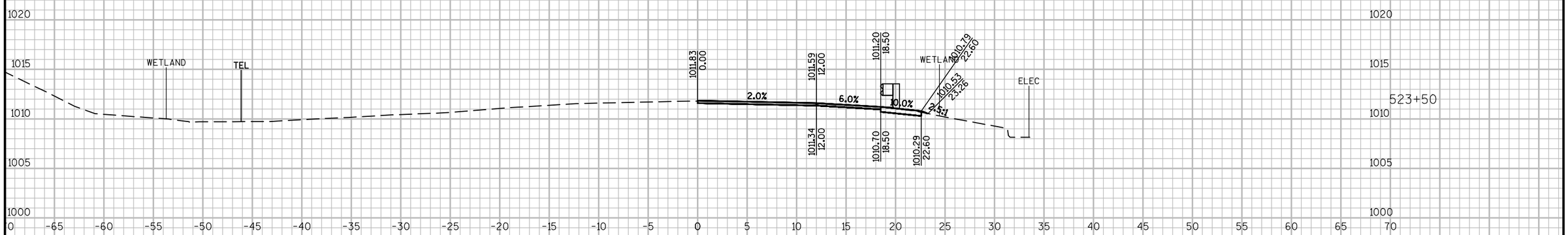
PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 185	E

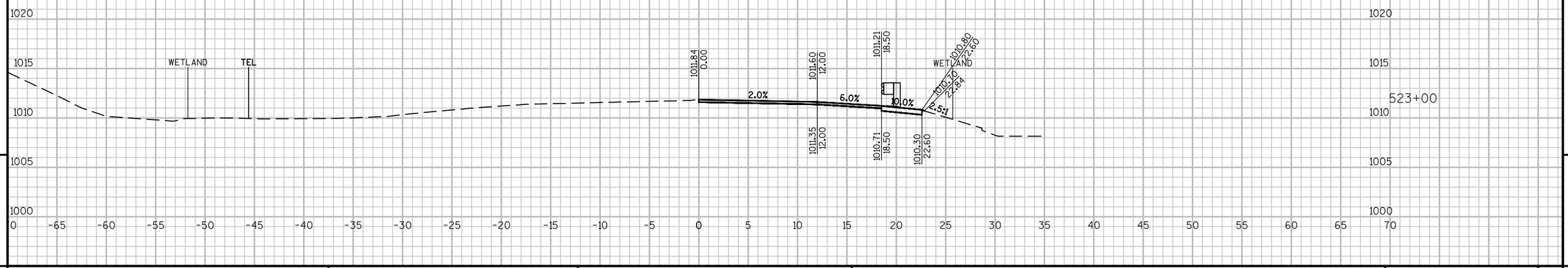
FILE NAME : P:\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090227

PLOT DATE : 9/22/2017 9:38 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME :

WISDOT/CADDS SHEET 49



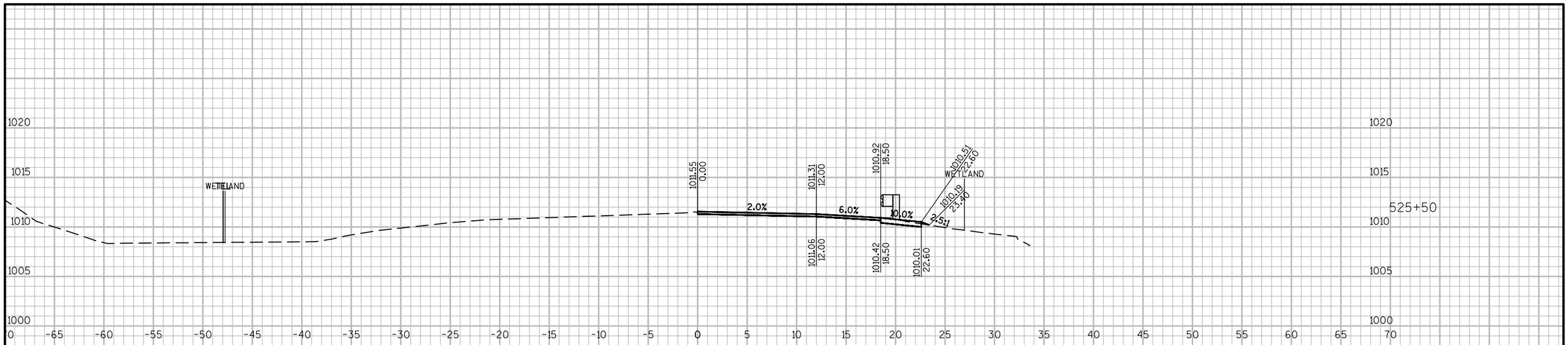


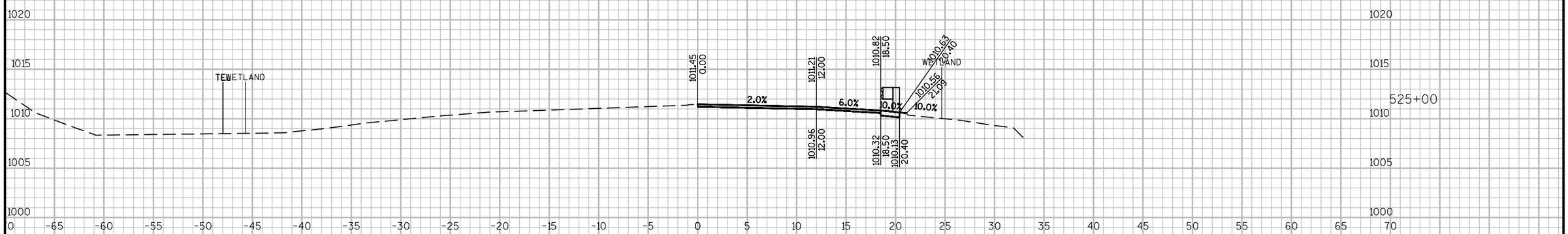


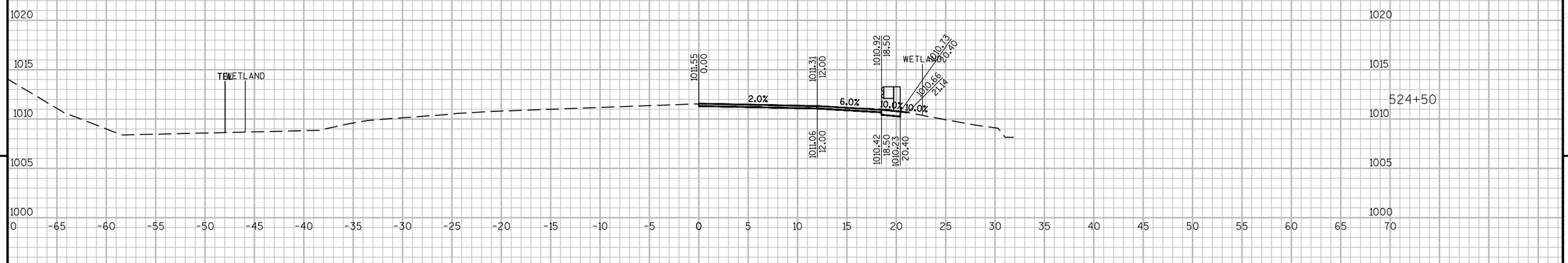
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PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 186	E



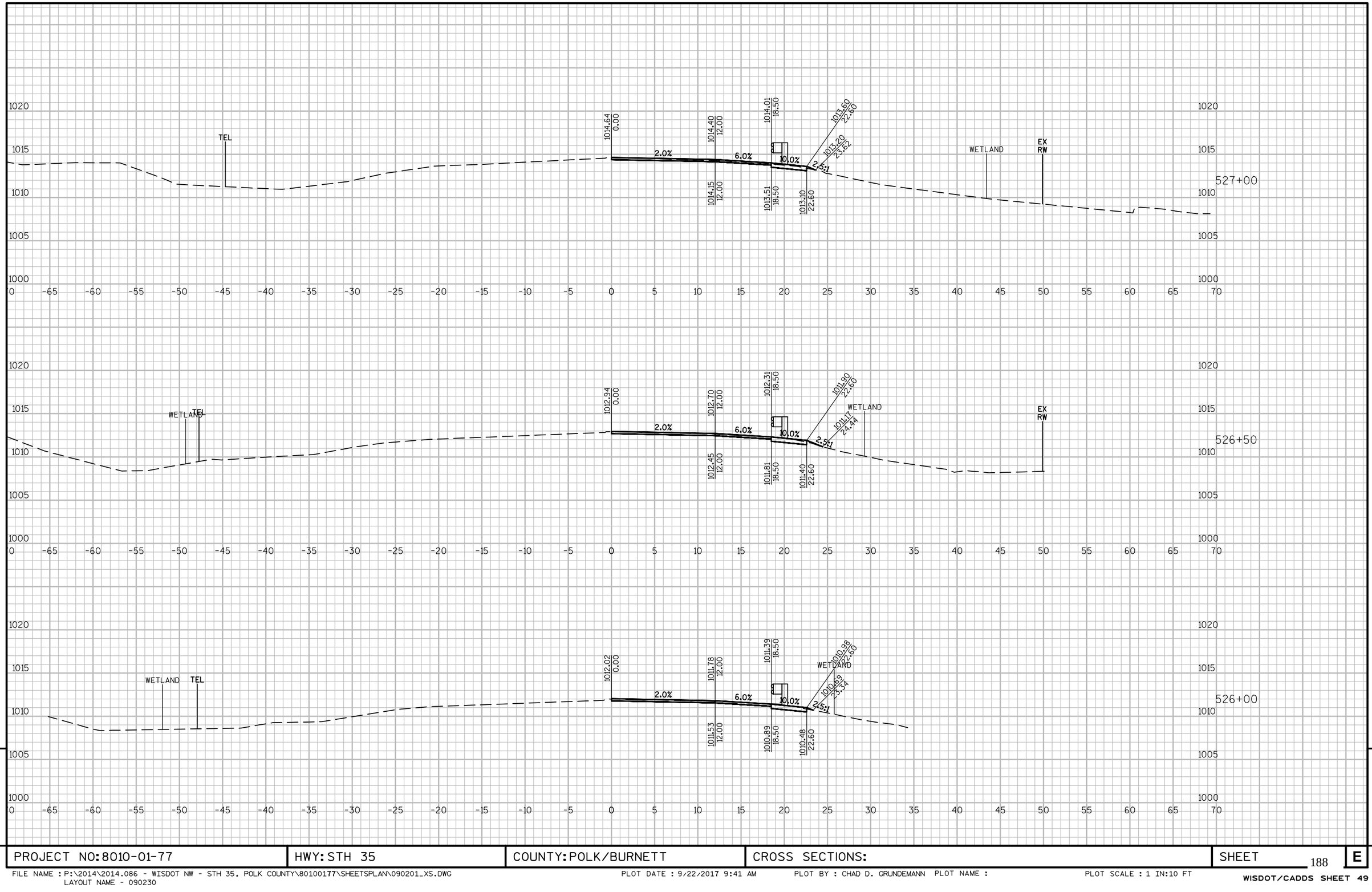




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PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 187	E



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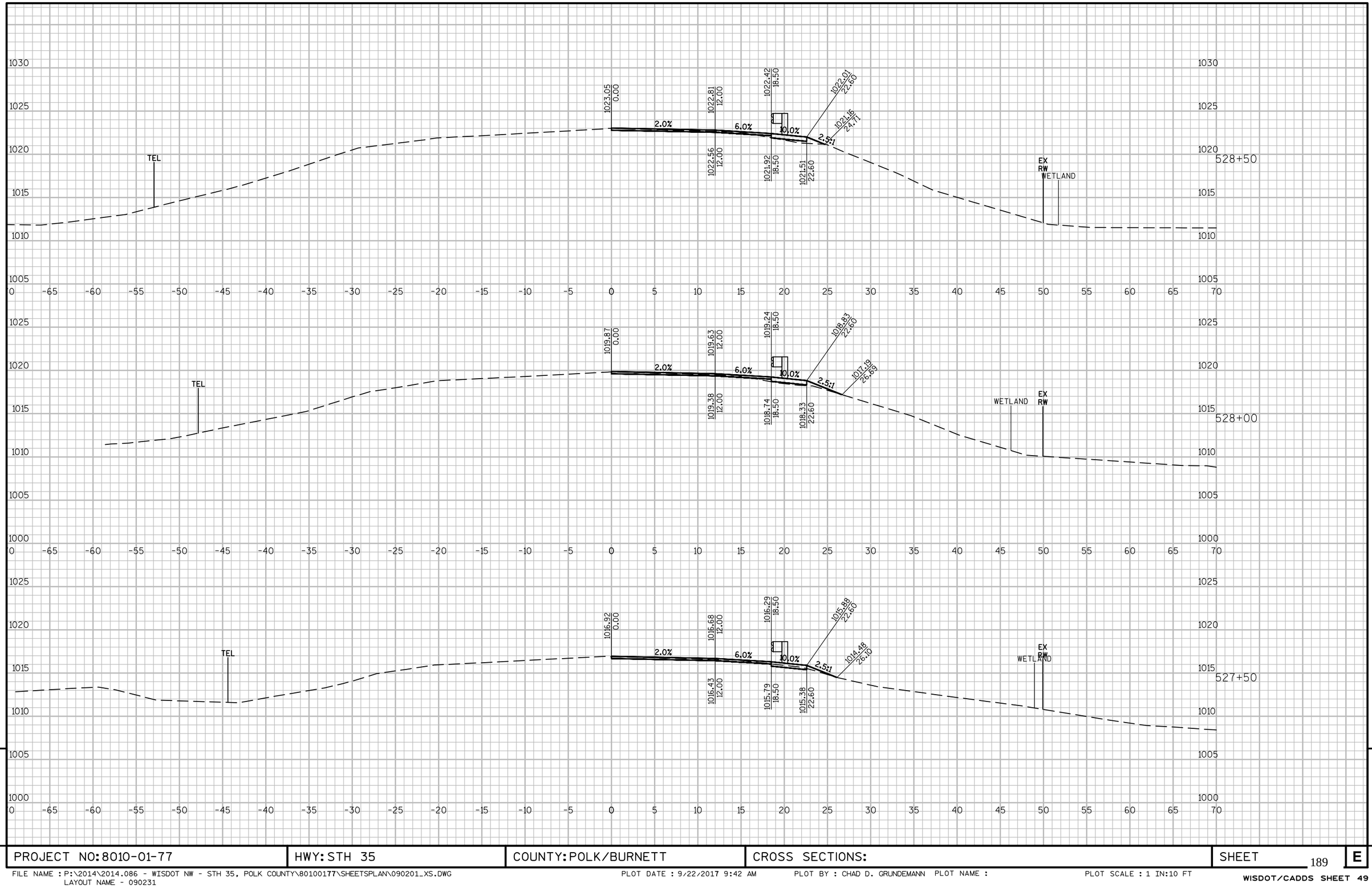
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PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 188	E

FILE NAME : P:\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090230

PLOT DATE : 9/22/2017 9:41 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : PLOT SCALE : 1 IN:10 FT

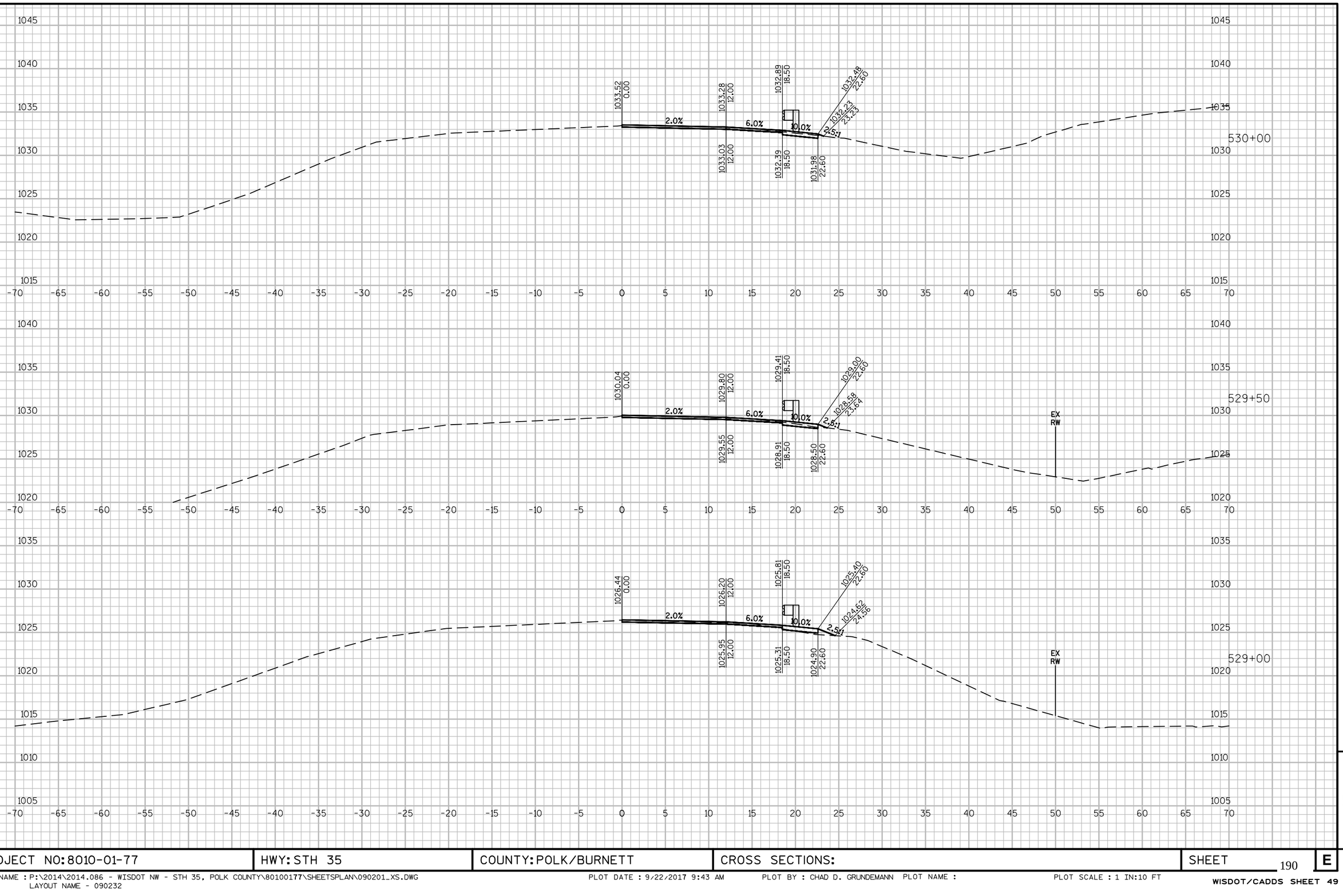
WISDOT/CADDS SHEET 49



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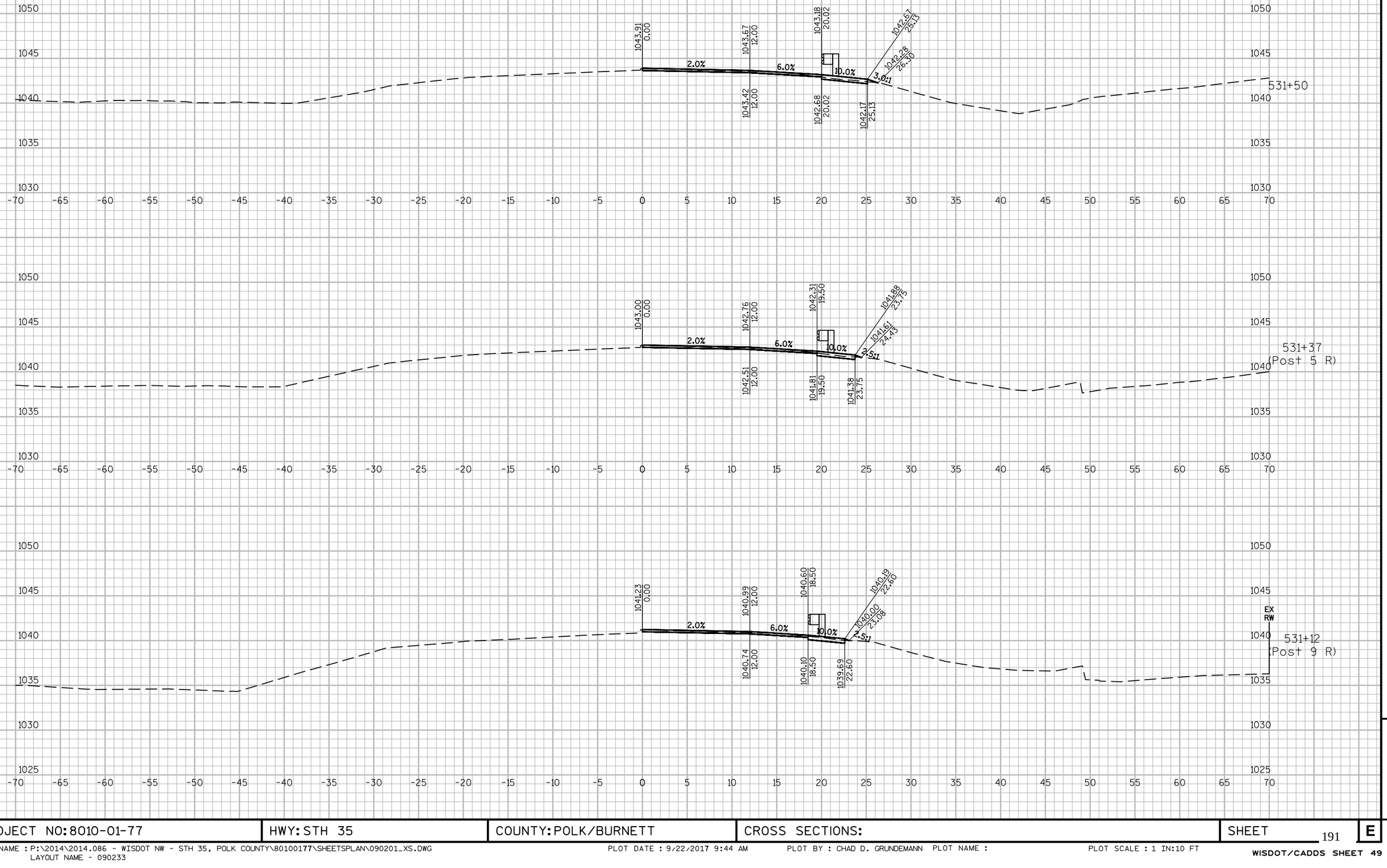
PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 189	E



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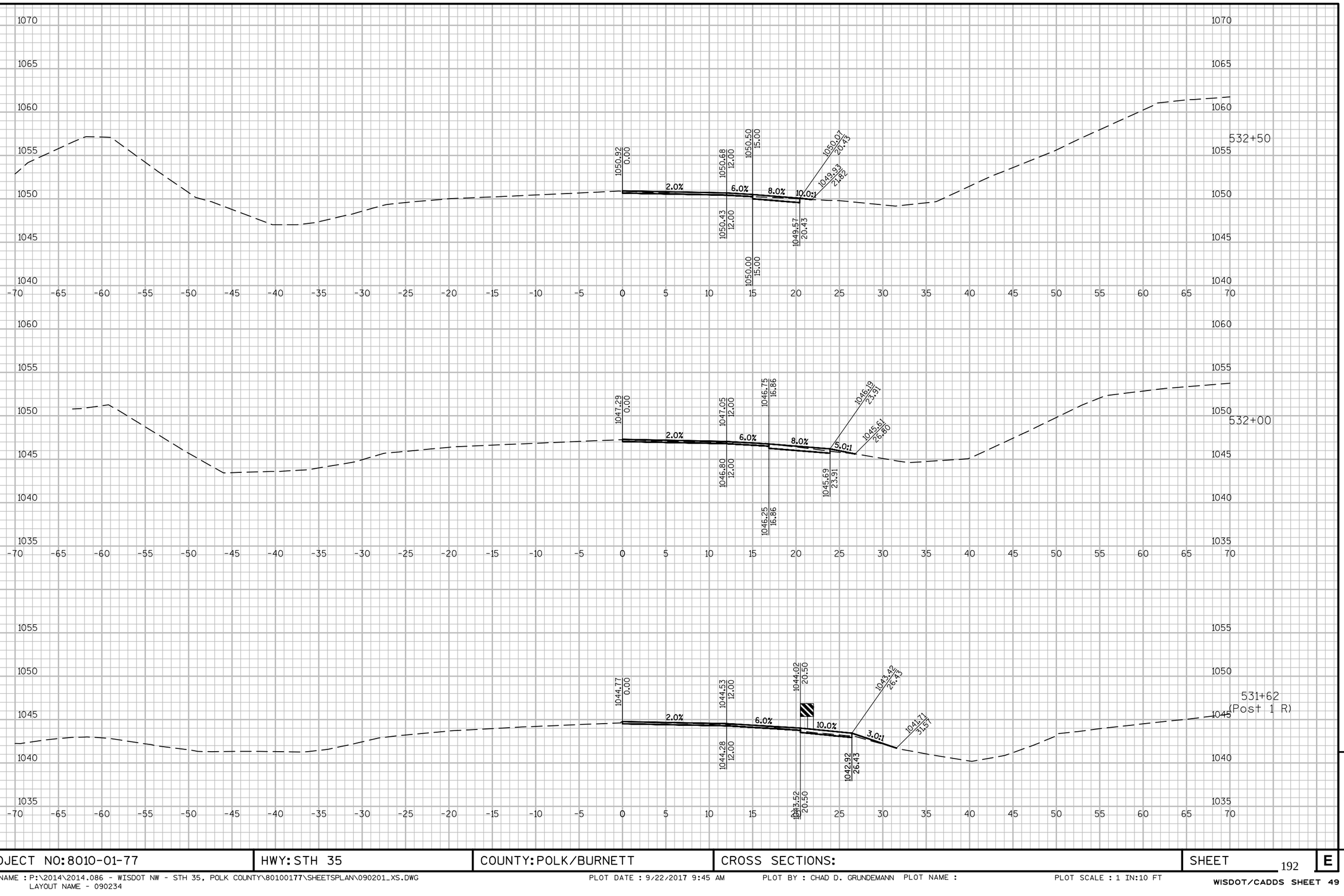
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PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 190	E



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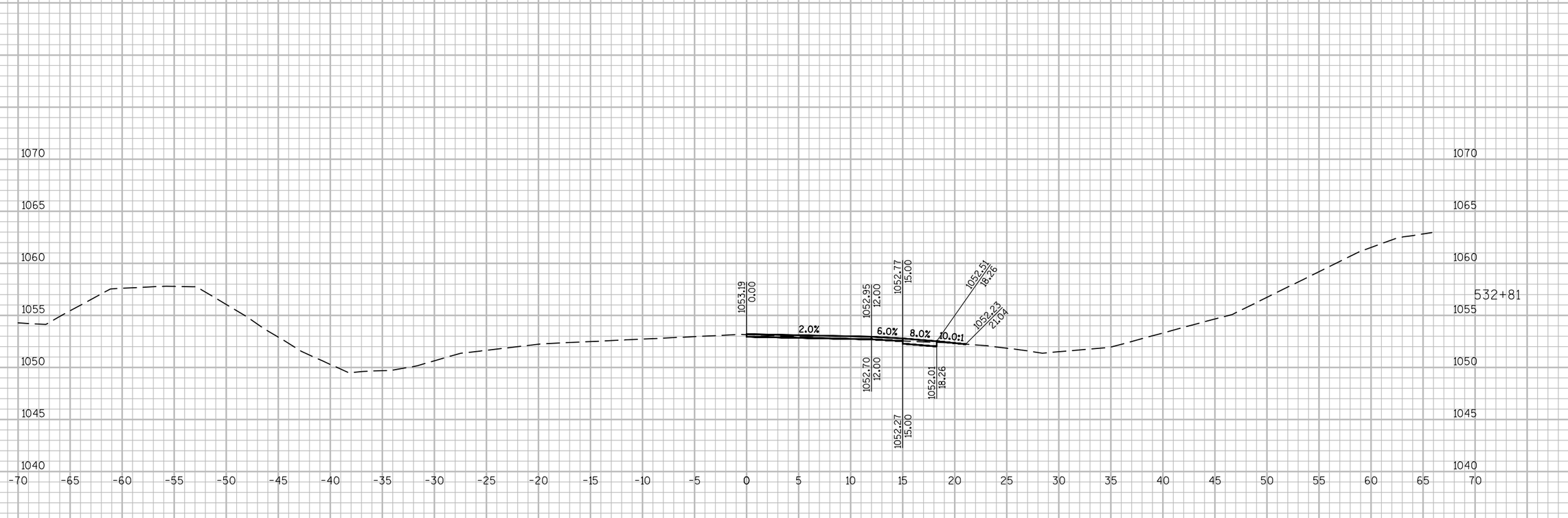
PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 191	E



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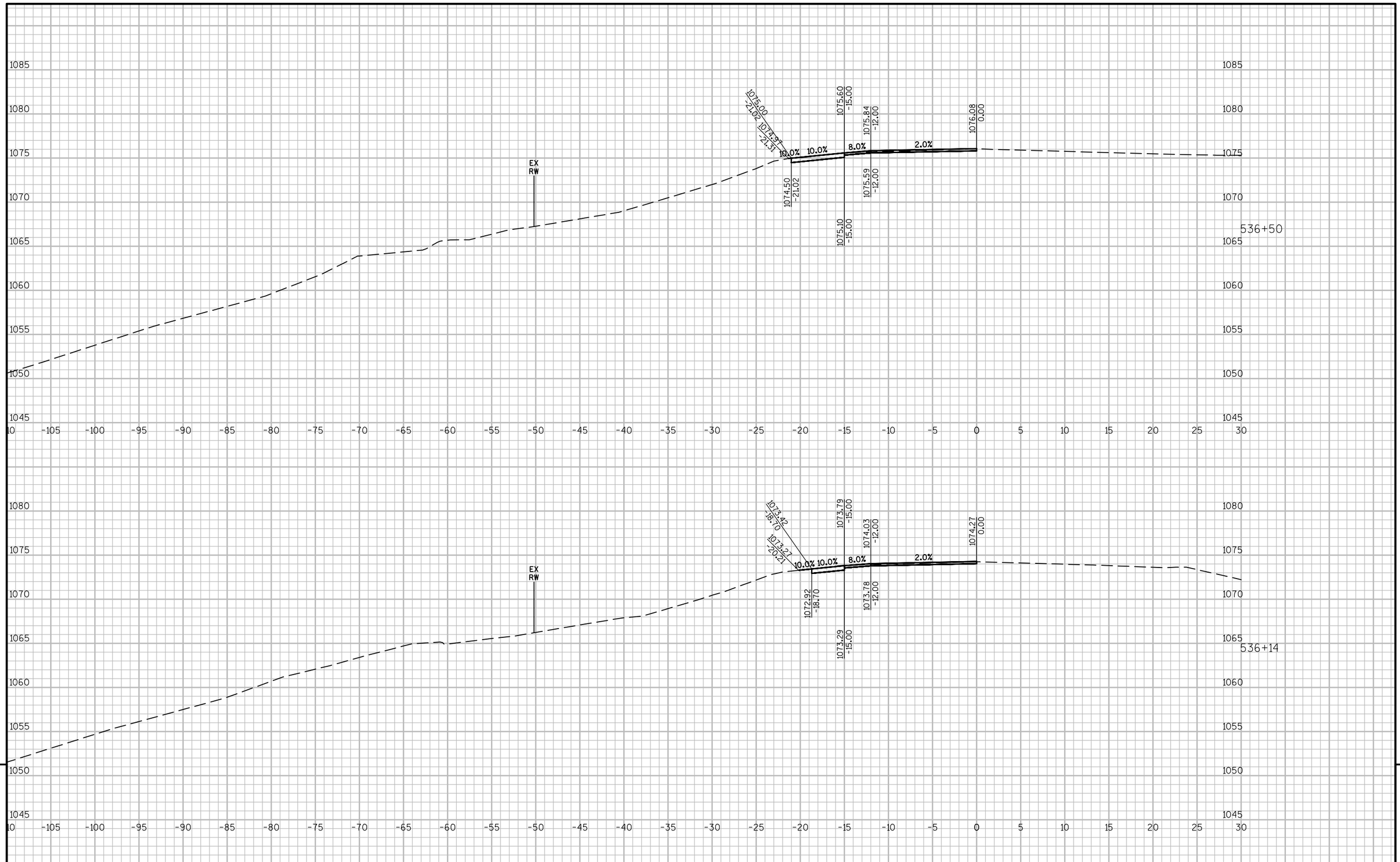
PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 192	E



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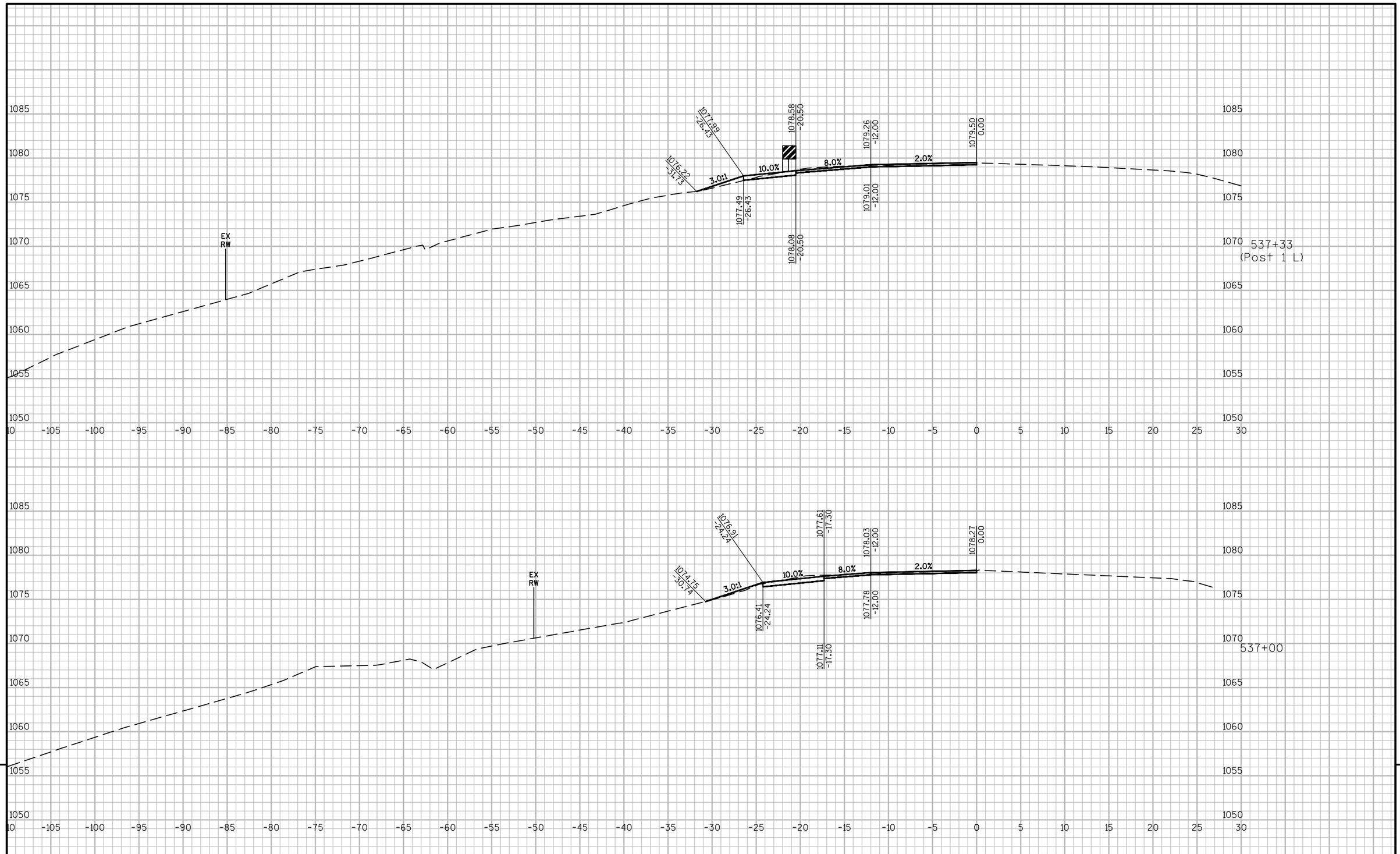
PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 193	E



9

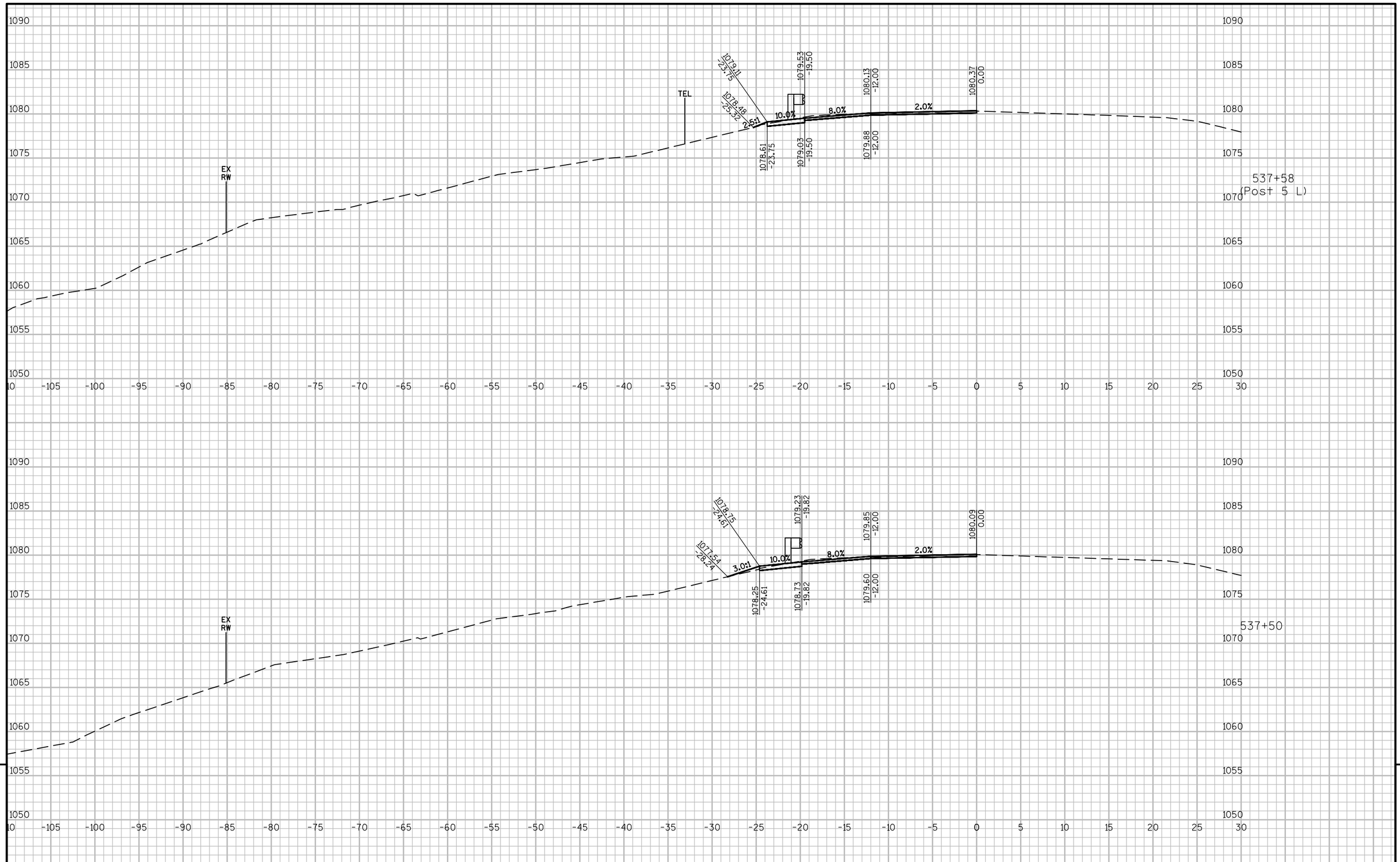
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PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 194	E



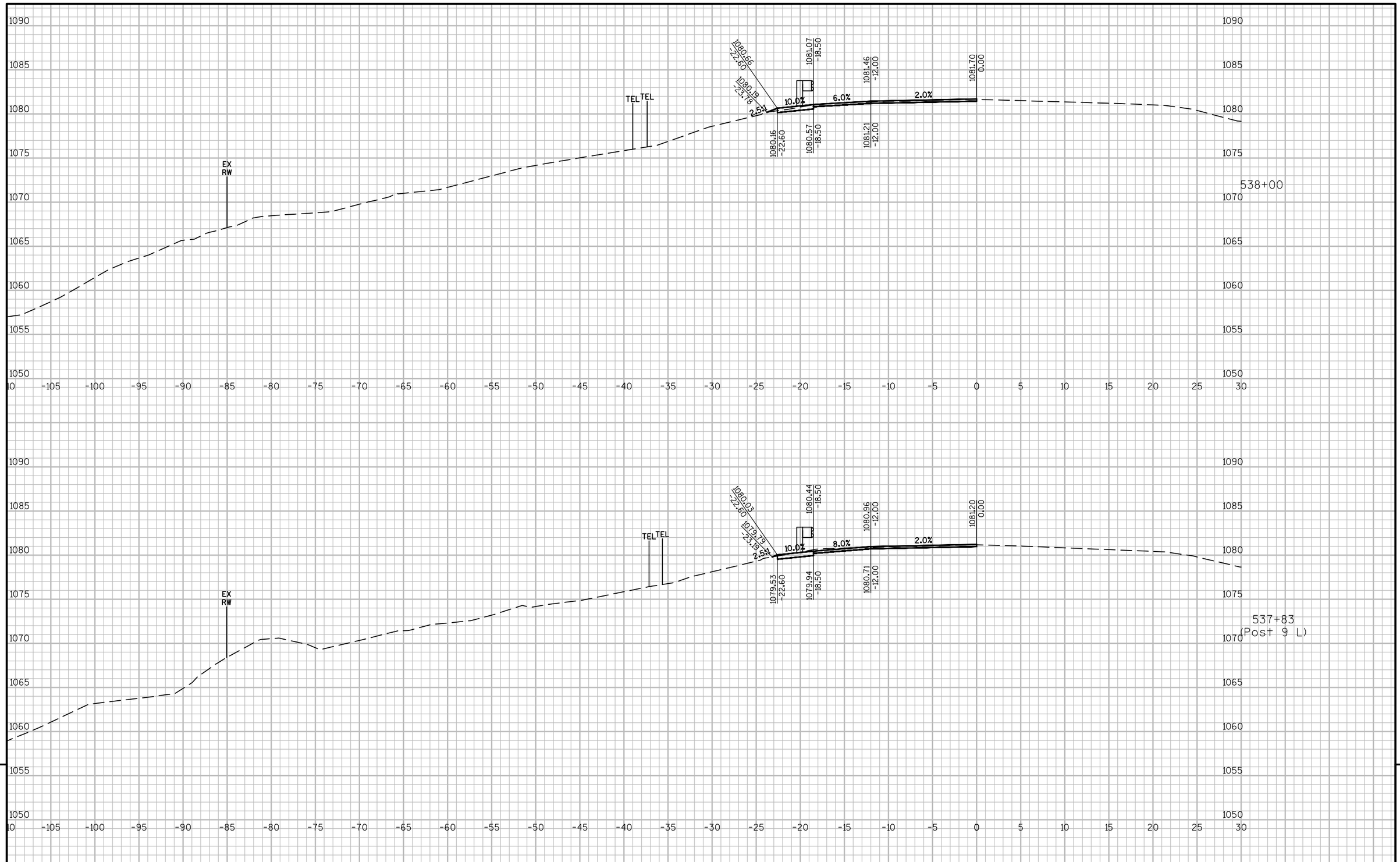
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PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 195	E



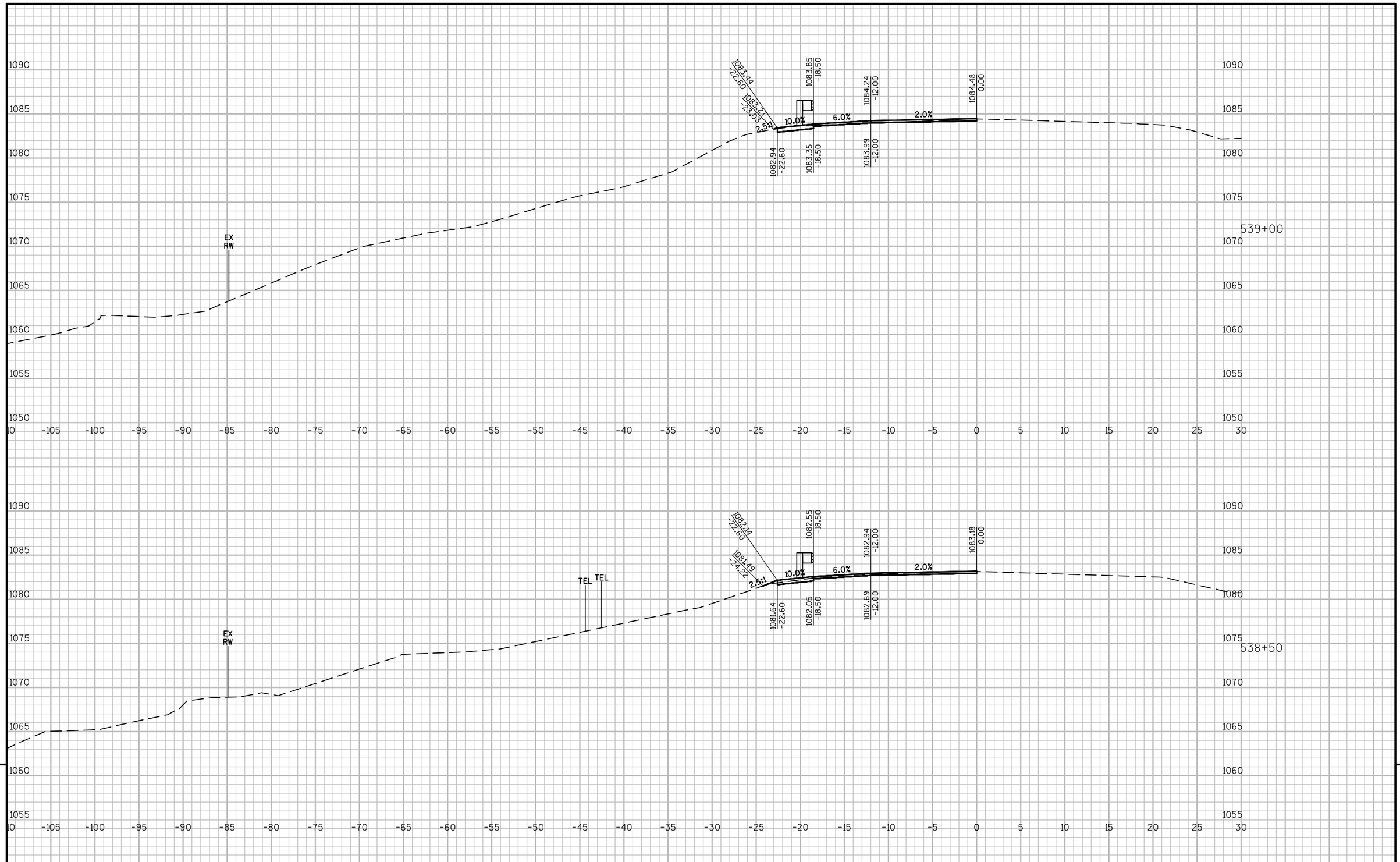
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PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 196	E

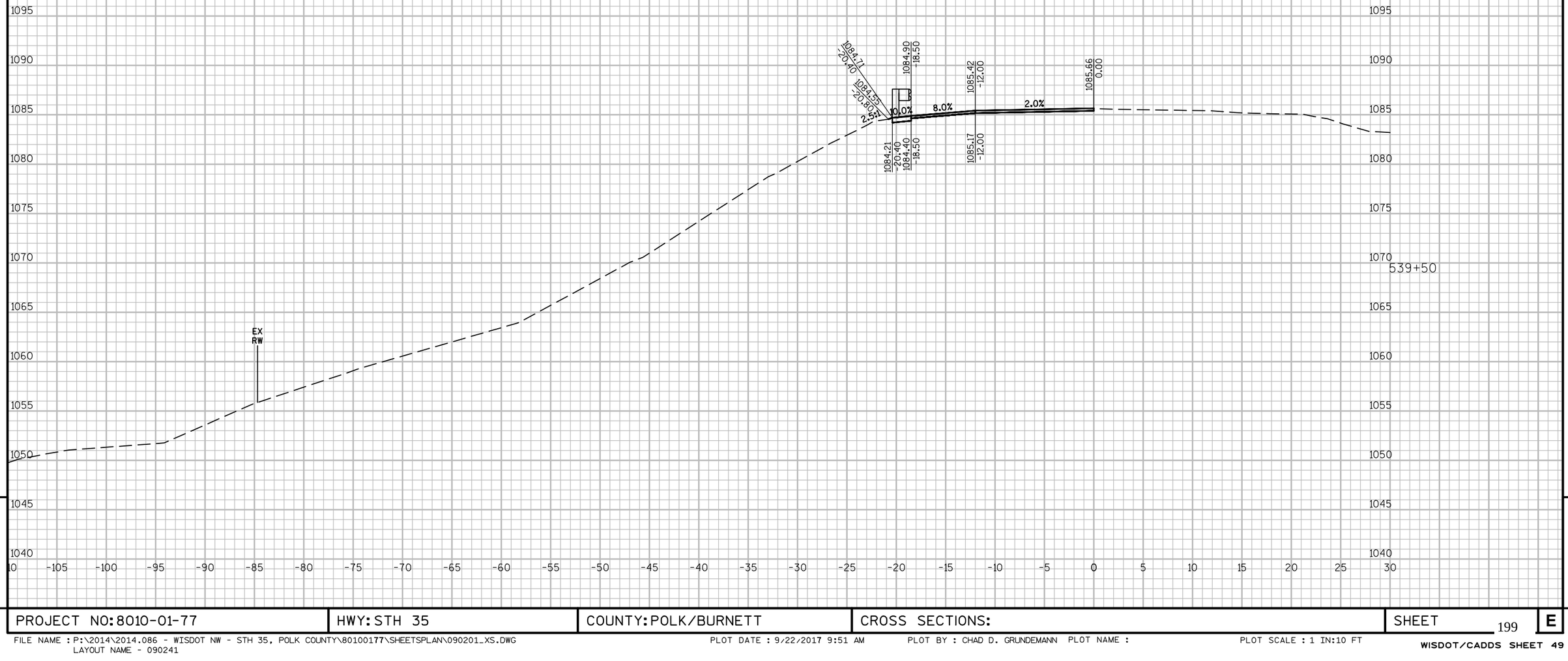


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PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 197 E



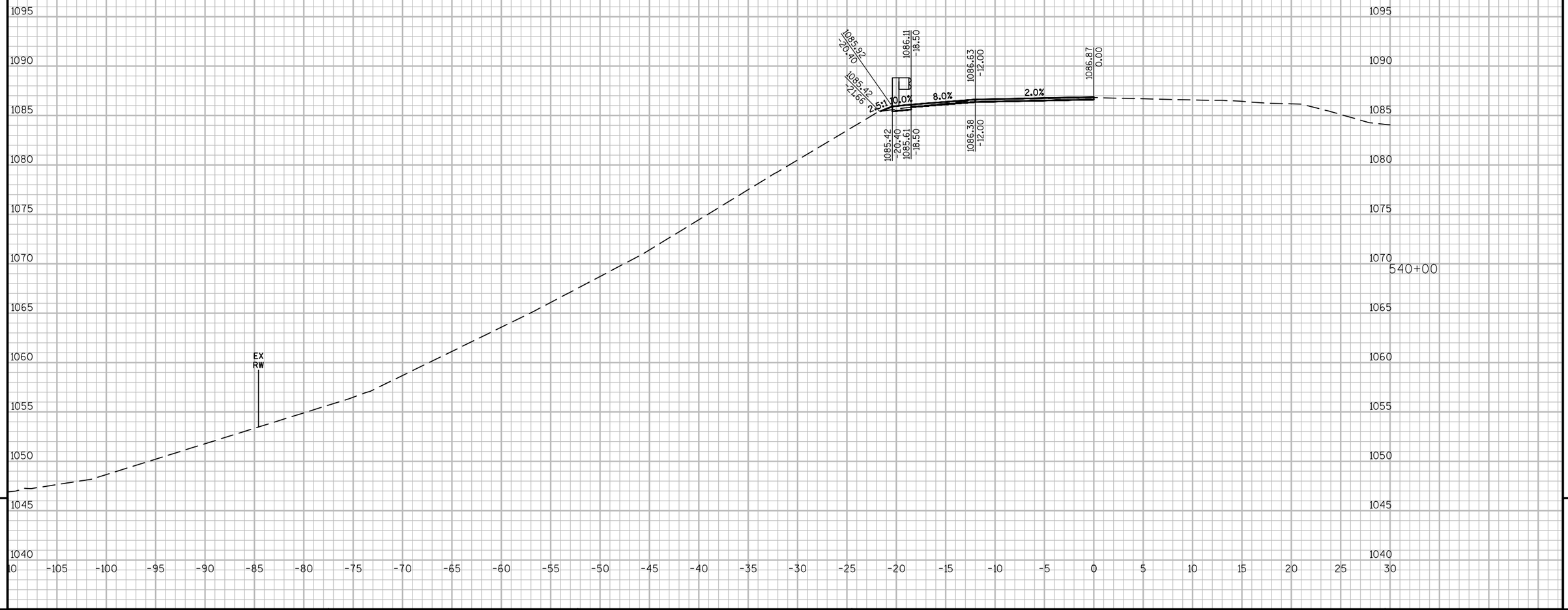
PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 198	E



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PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 199	E



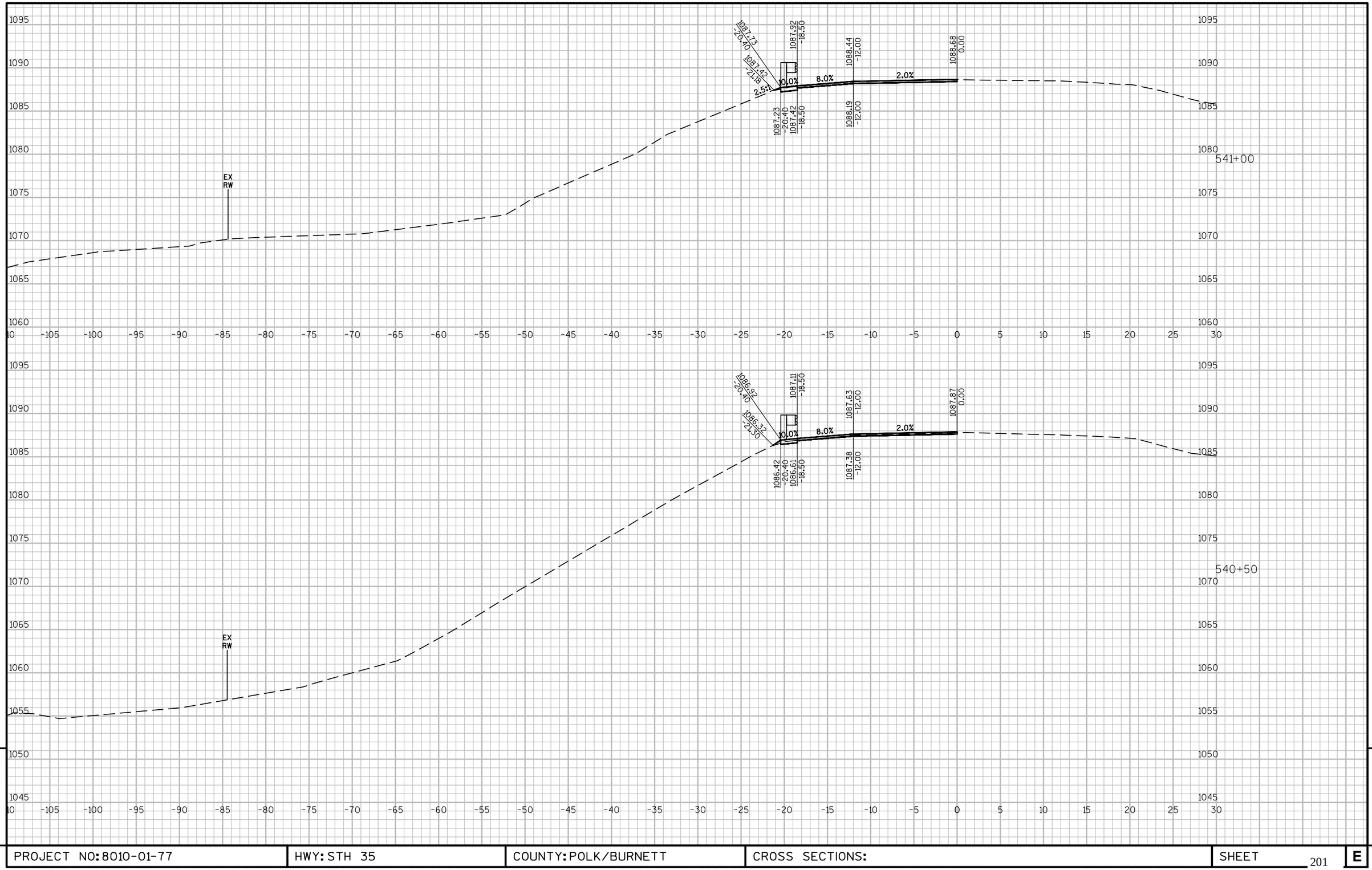
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PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 200	E

FILE NAME : P:\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090242

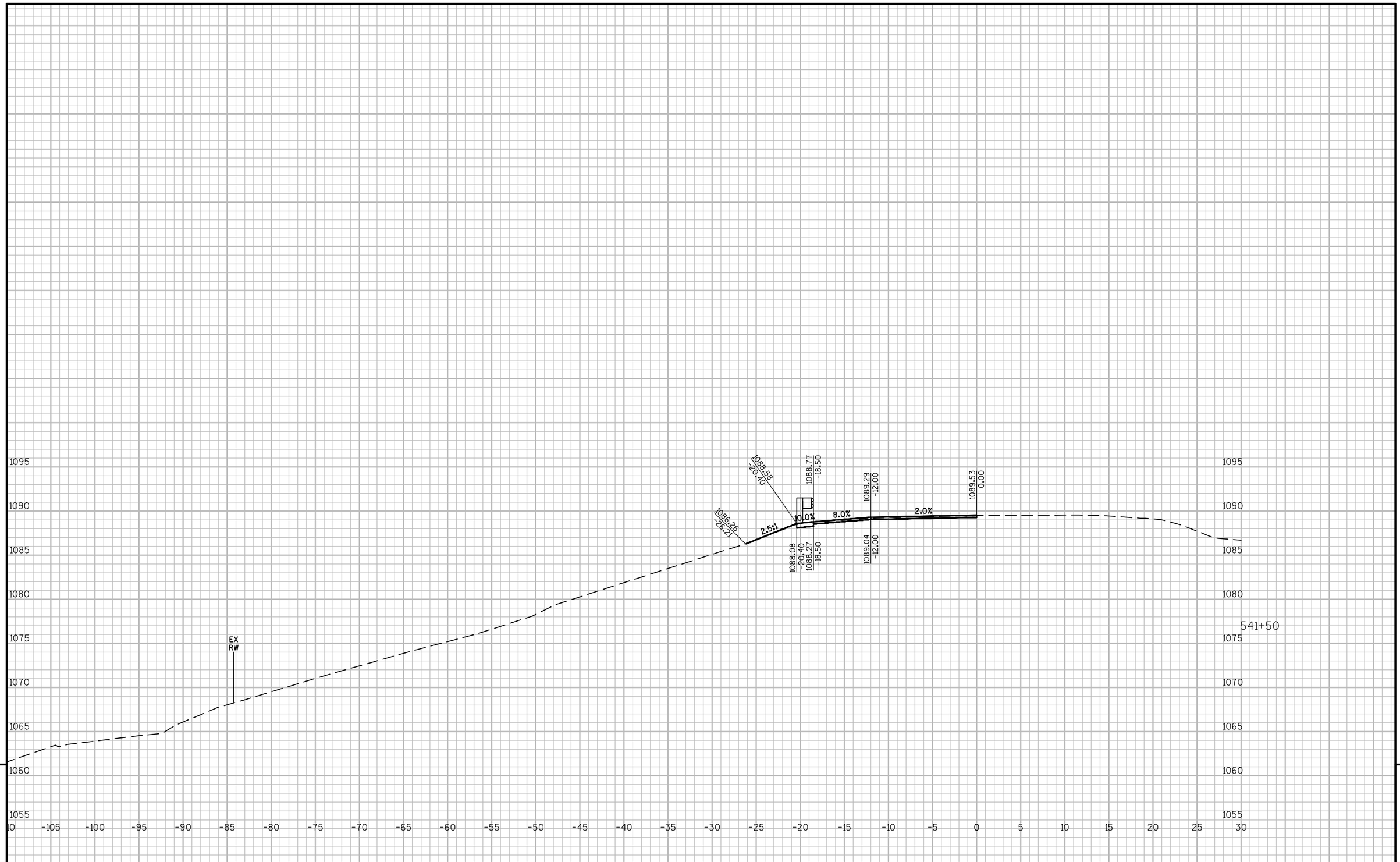
PLOT DATE : 9/22/2017 9:52 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : PLOT SCALE : 1 IN:10 FT



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PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 201	E



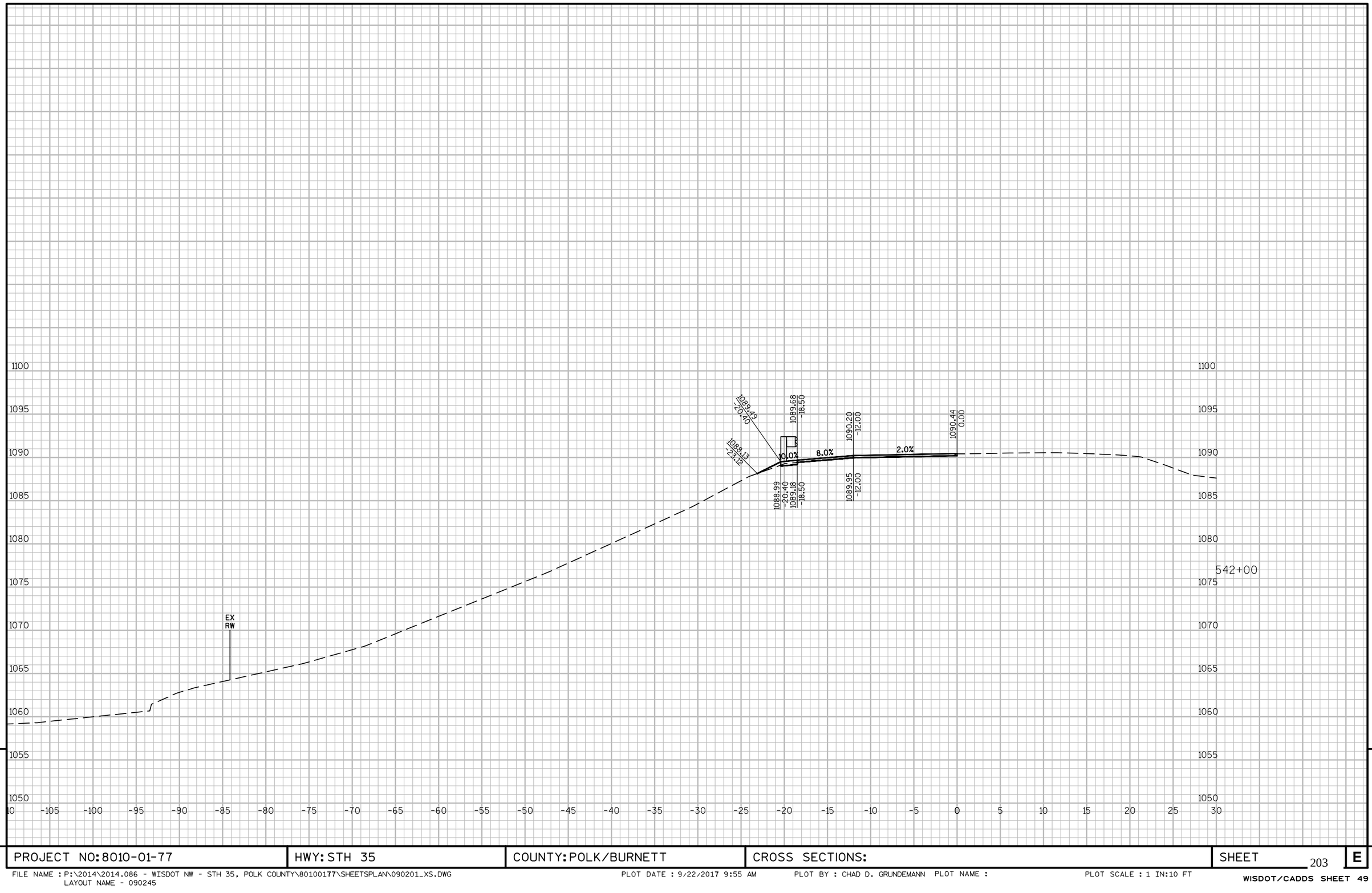
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PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 202	E

FILE NAME : P:\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090244

PLOT DATE : 9/22/2017 9:54 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : PLOT SCALE : 1 IN:10 FT



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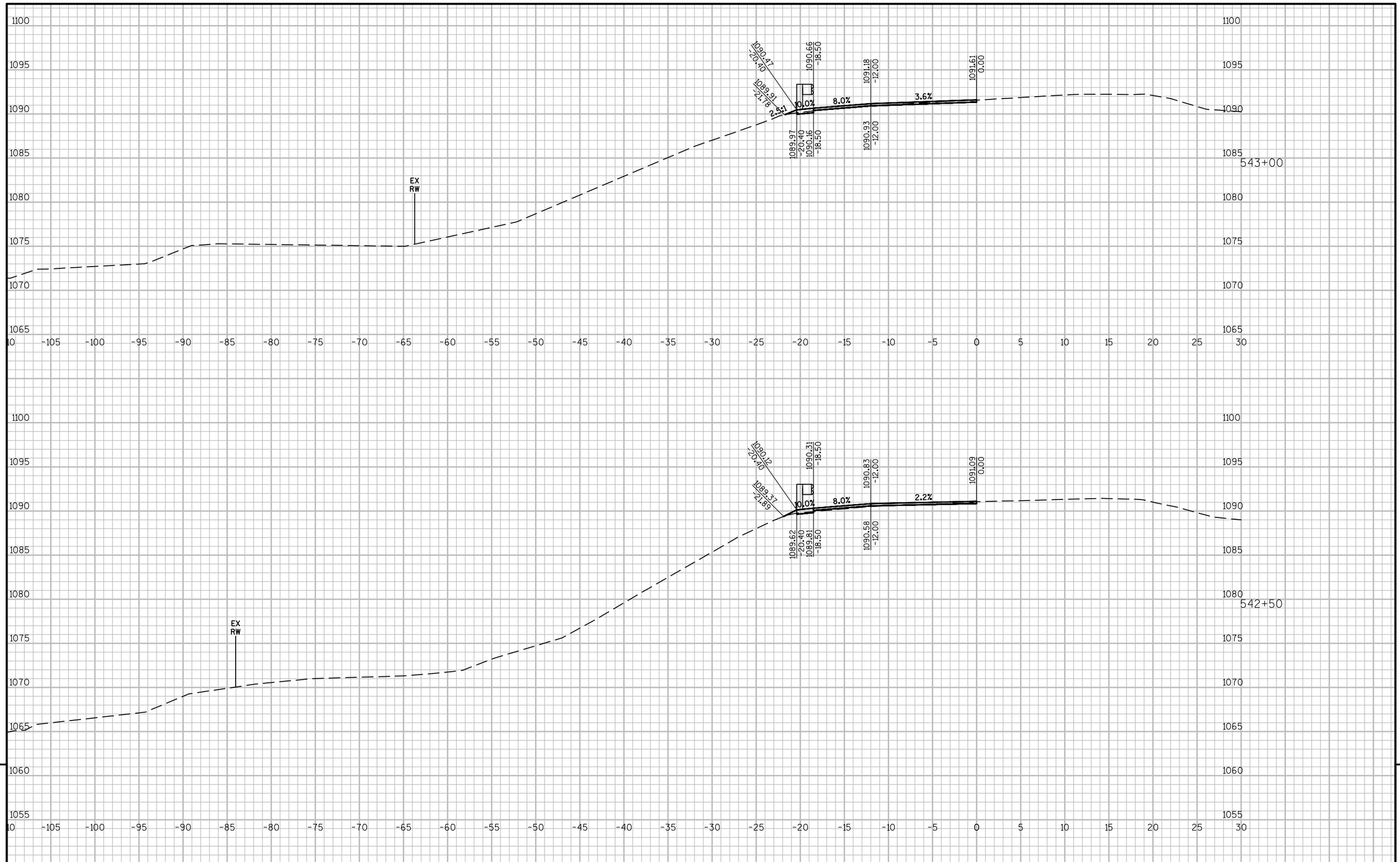
PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 203	E

FILE NAME : P:\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090245

PLOT DATE : 9/22/2017 9:55 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME :

PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

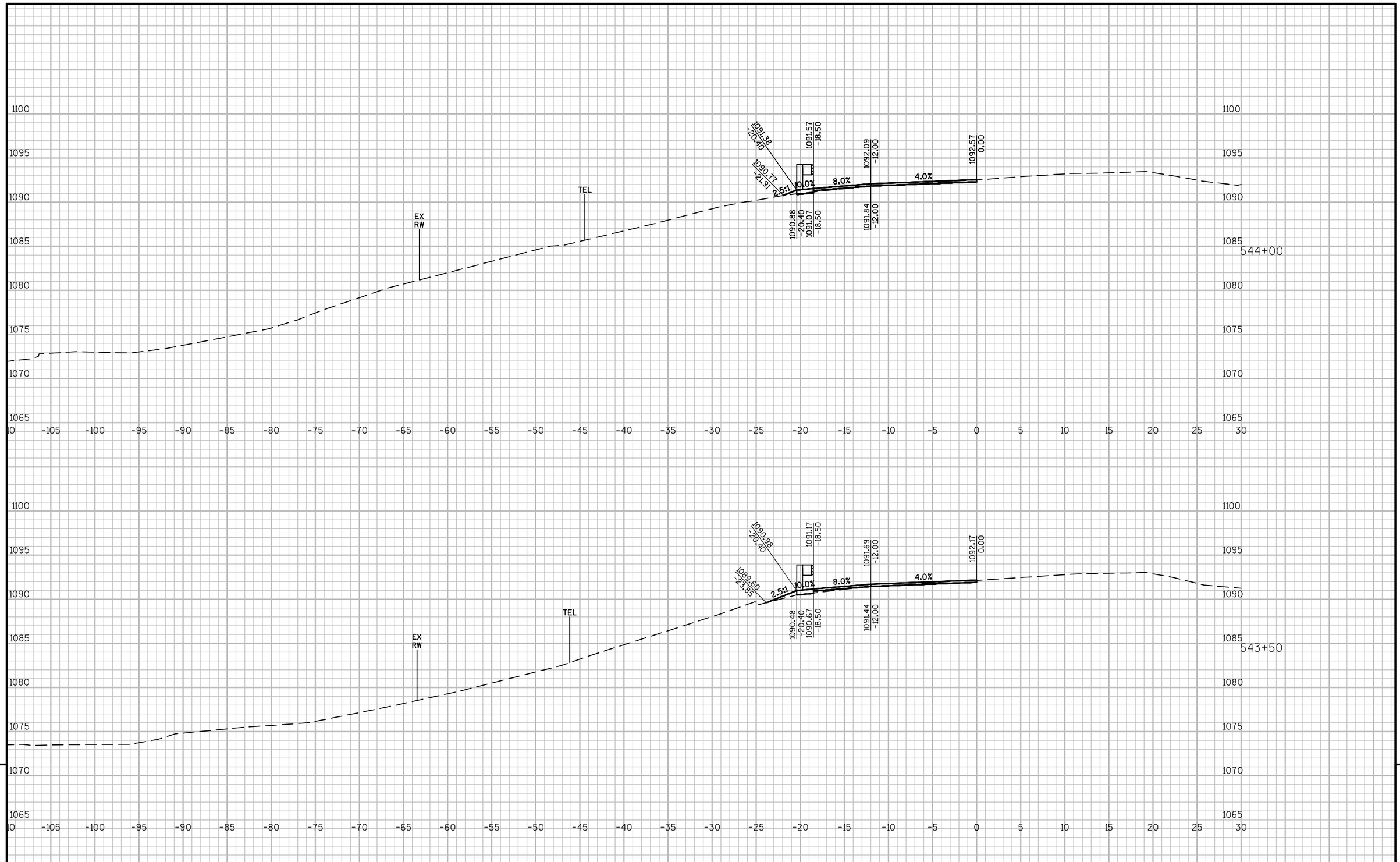


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PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 204	E

FILE NAME : P:\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090246

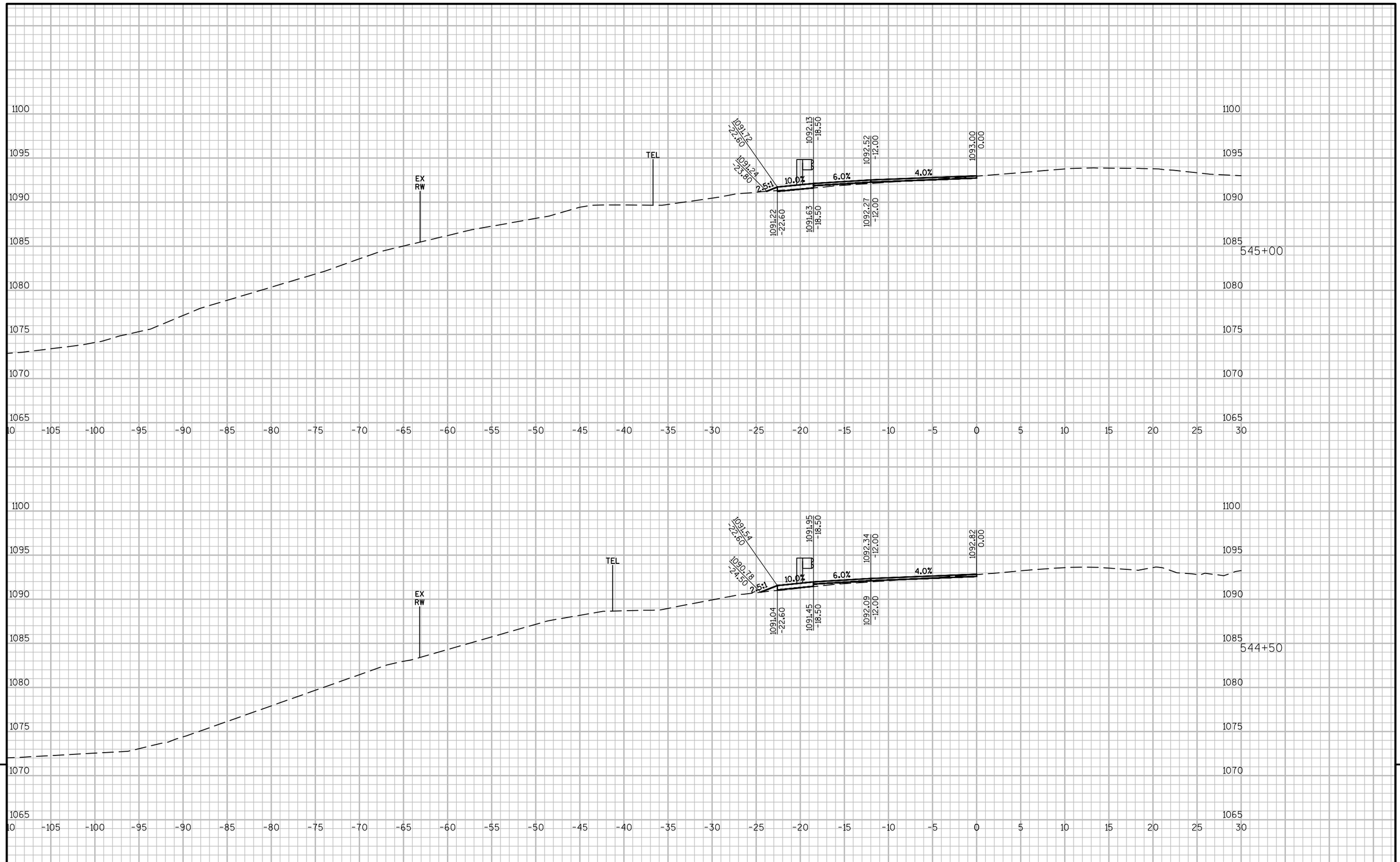
PLOT DATE : 9/22/2017 9:56 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : PLOT SCALE : 1 IN:10 FT



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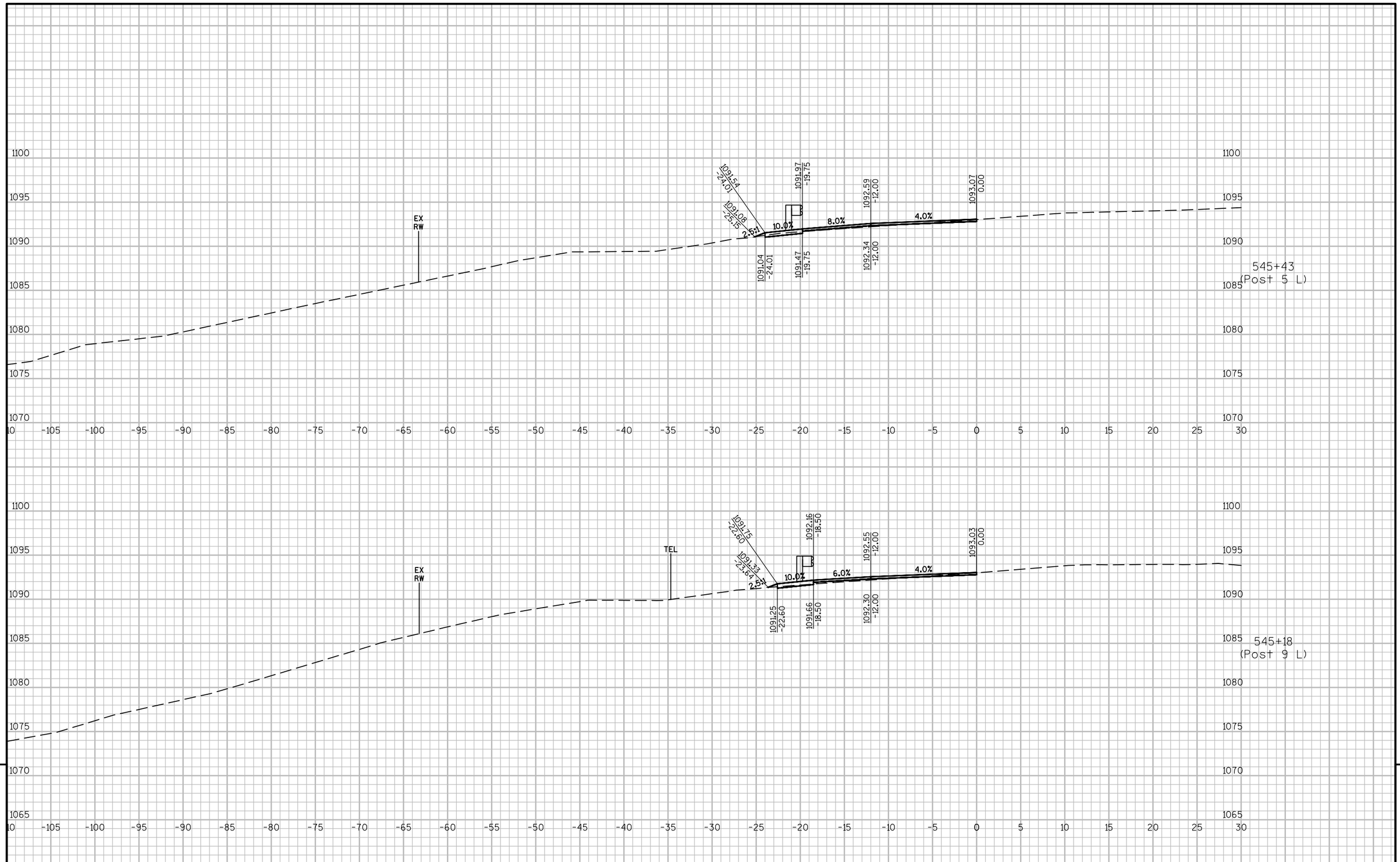
PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 205	E



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PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 206	E



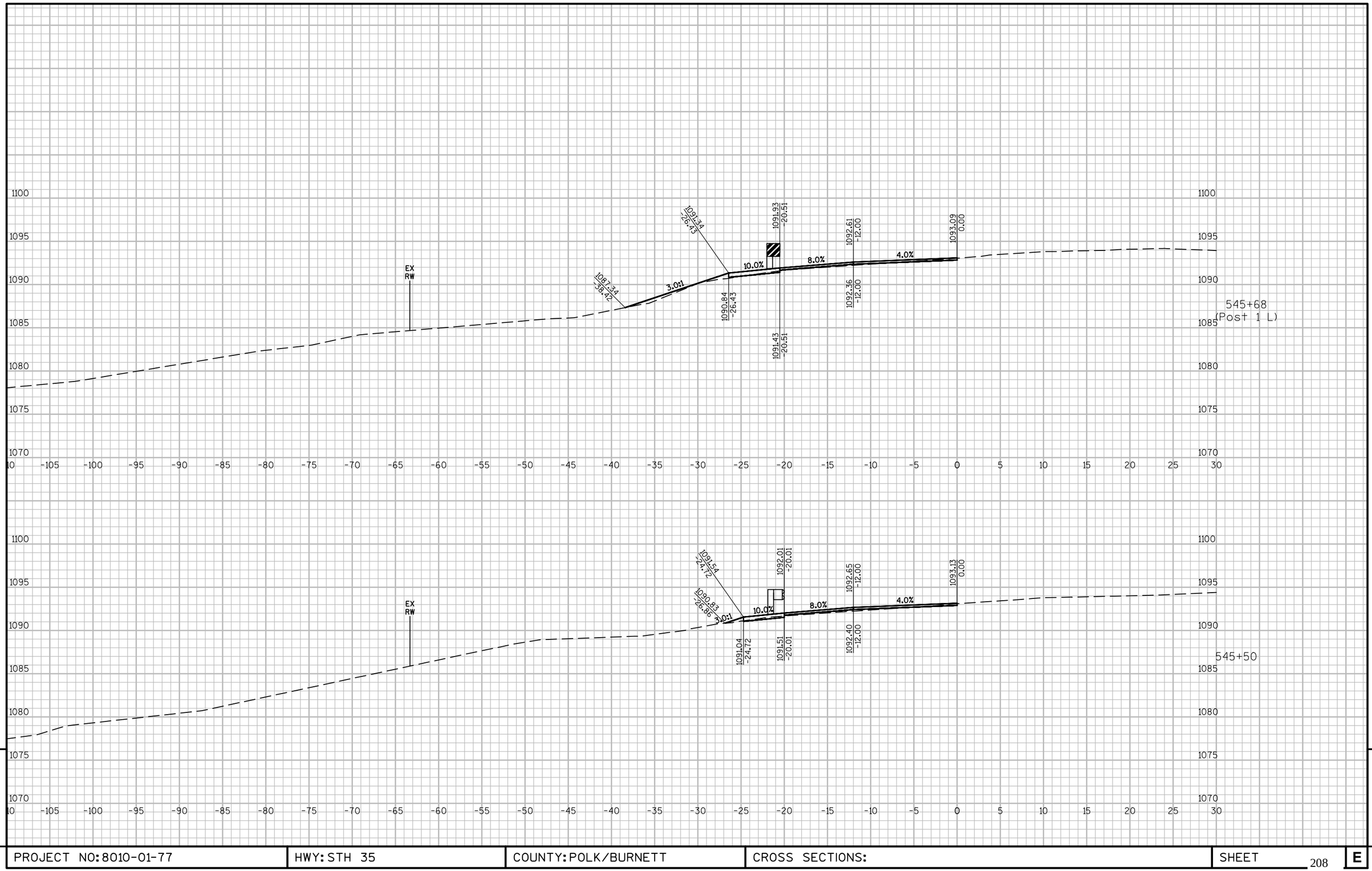
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PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 207	E

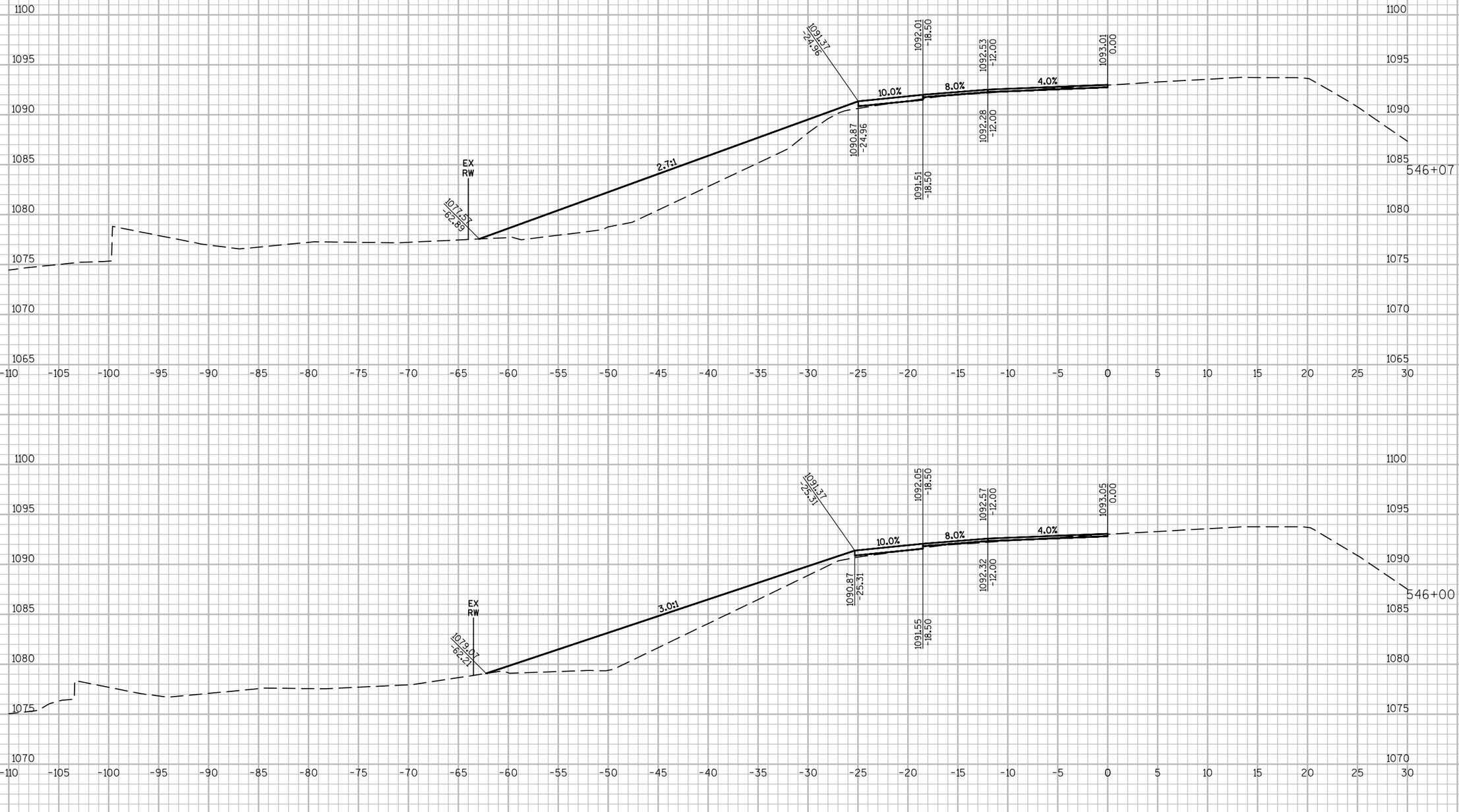
FILE NAME : P:\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090249

PLOT DATE : 9/22/2017 9:59 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : PLOT SCALE : 1 IN:10 FT



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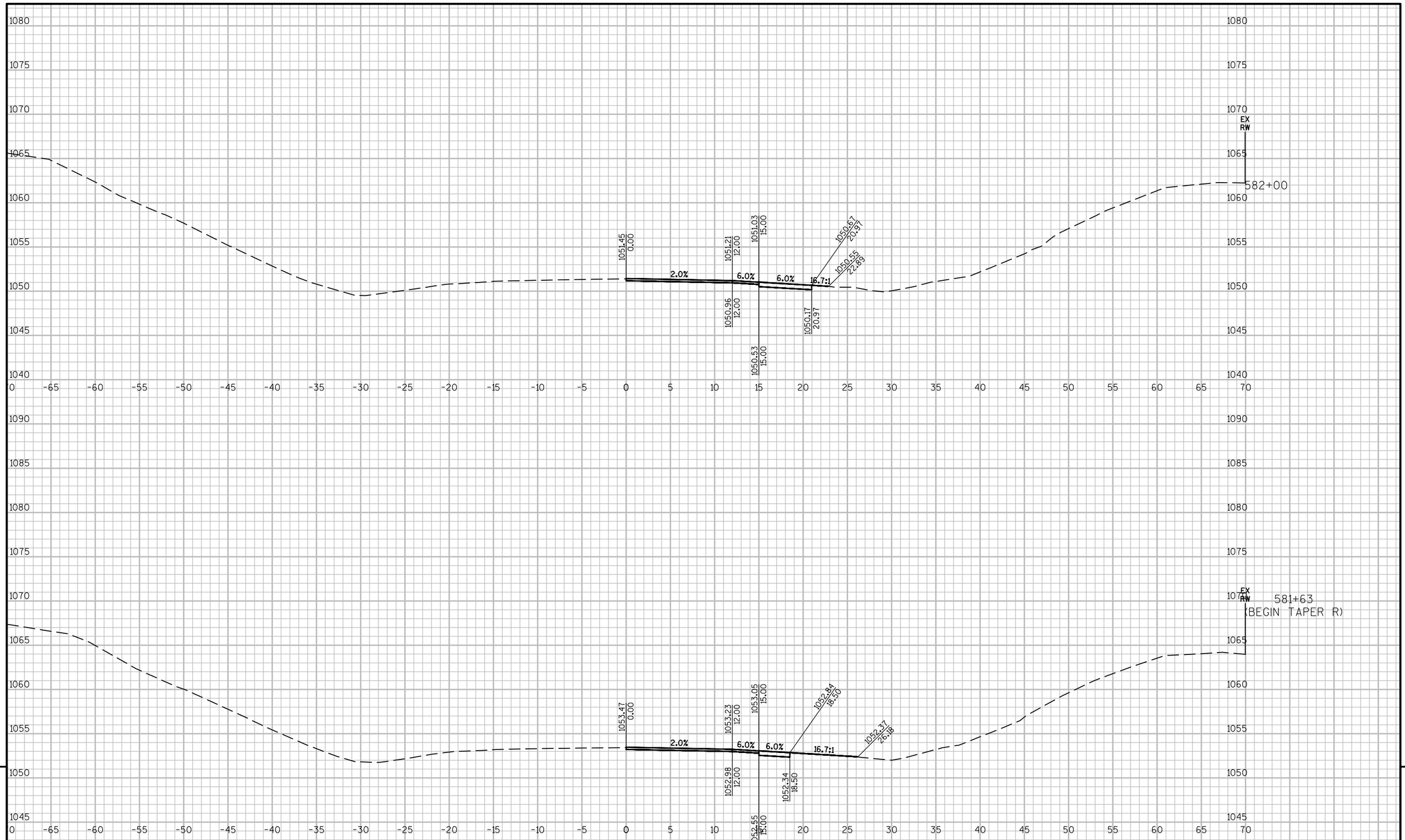
PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 208 E



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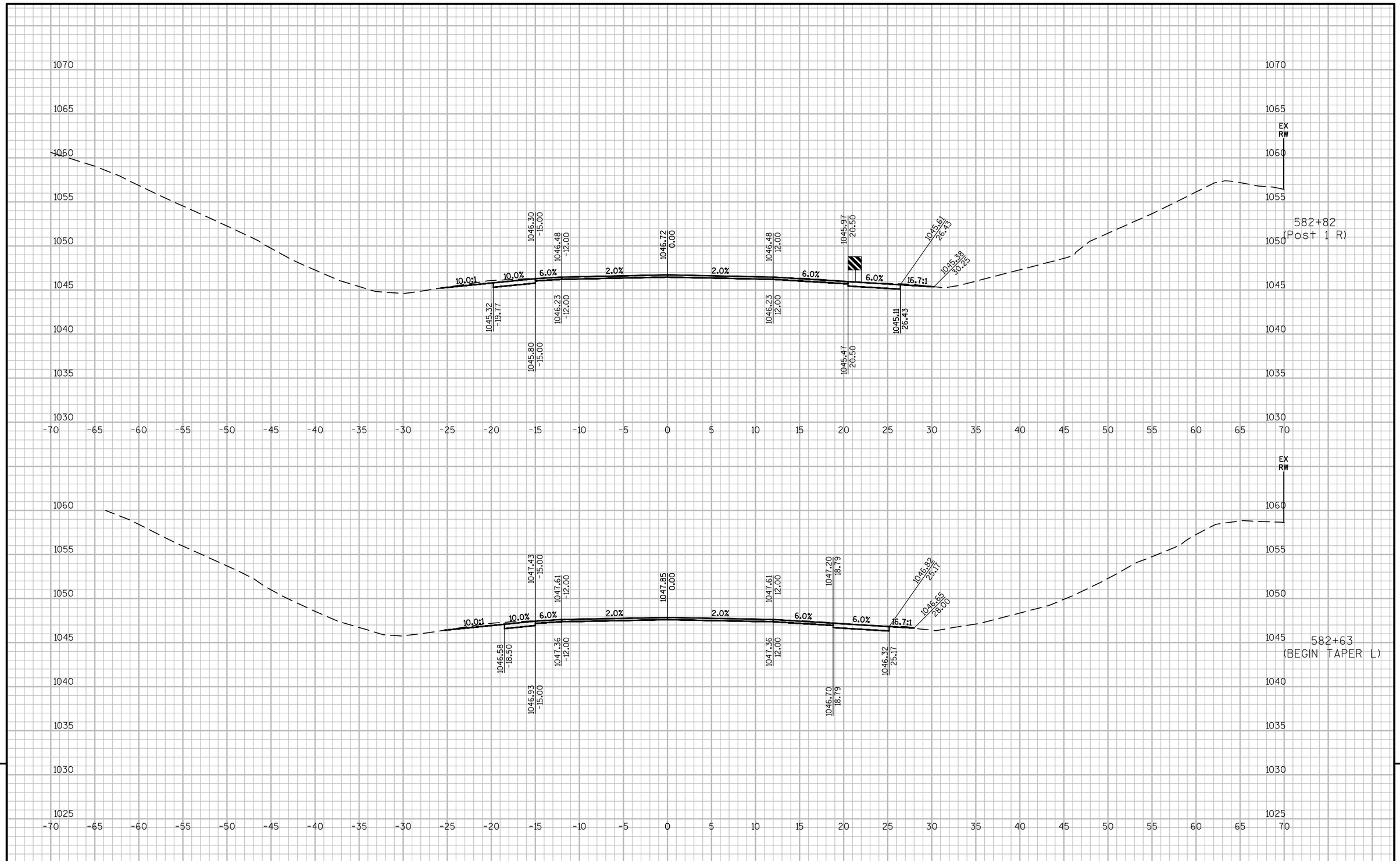
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PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 209	E

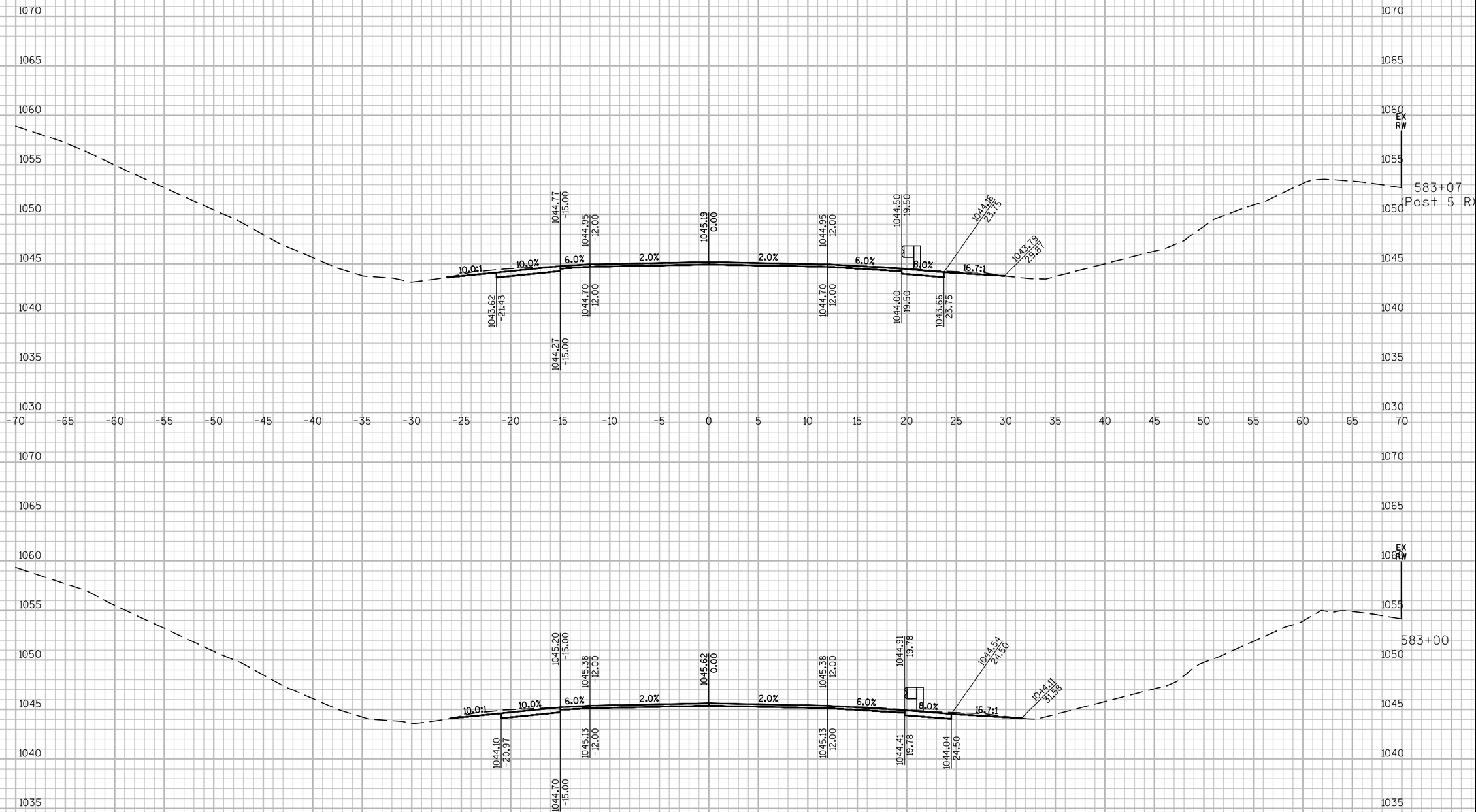


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PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 210	E



PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 211	E



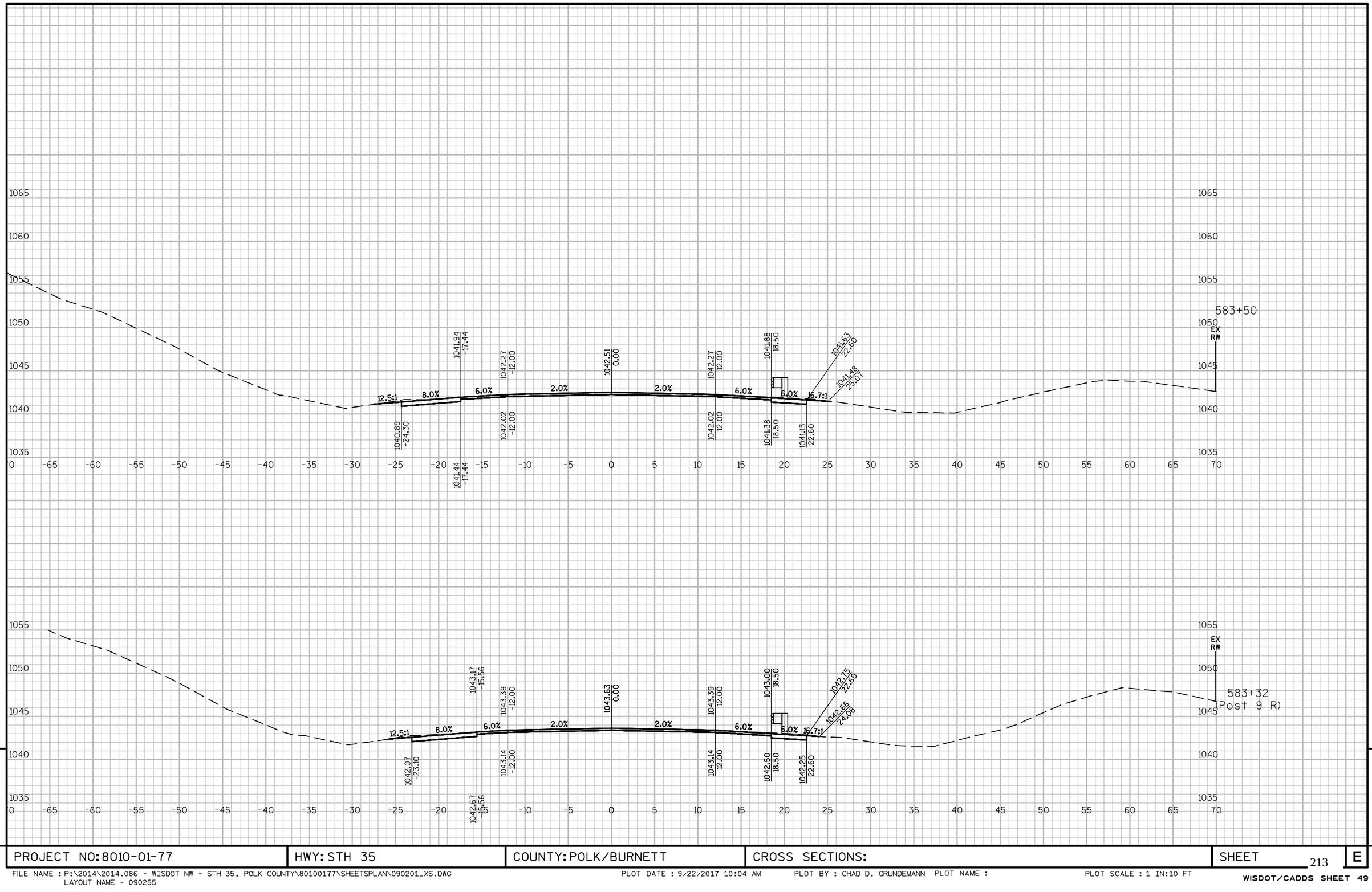
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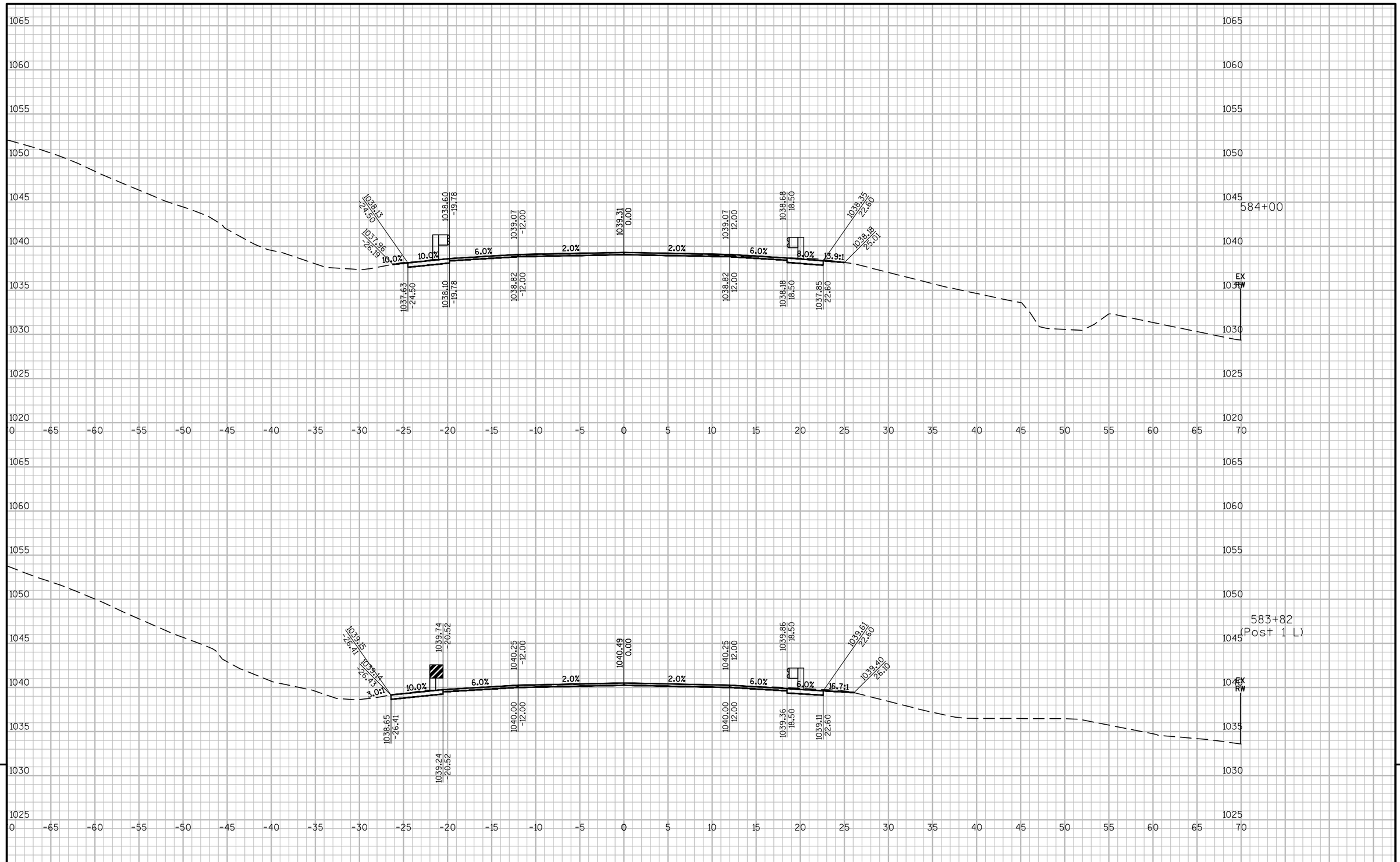
PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 212	E

FILE NAME : P:\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090254

PLOT DATE : 9/22/2017 10:03 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 213	E

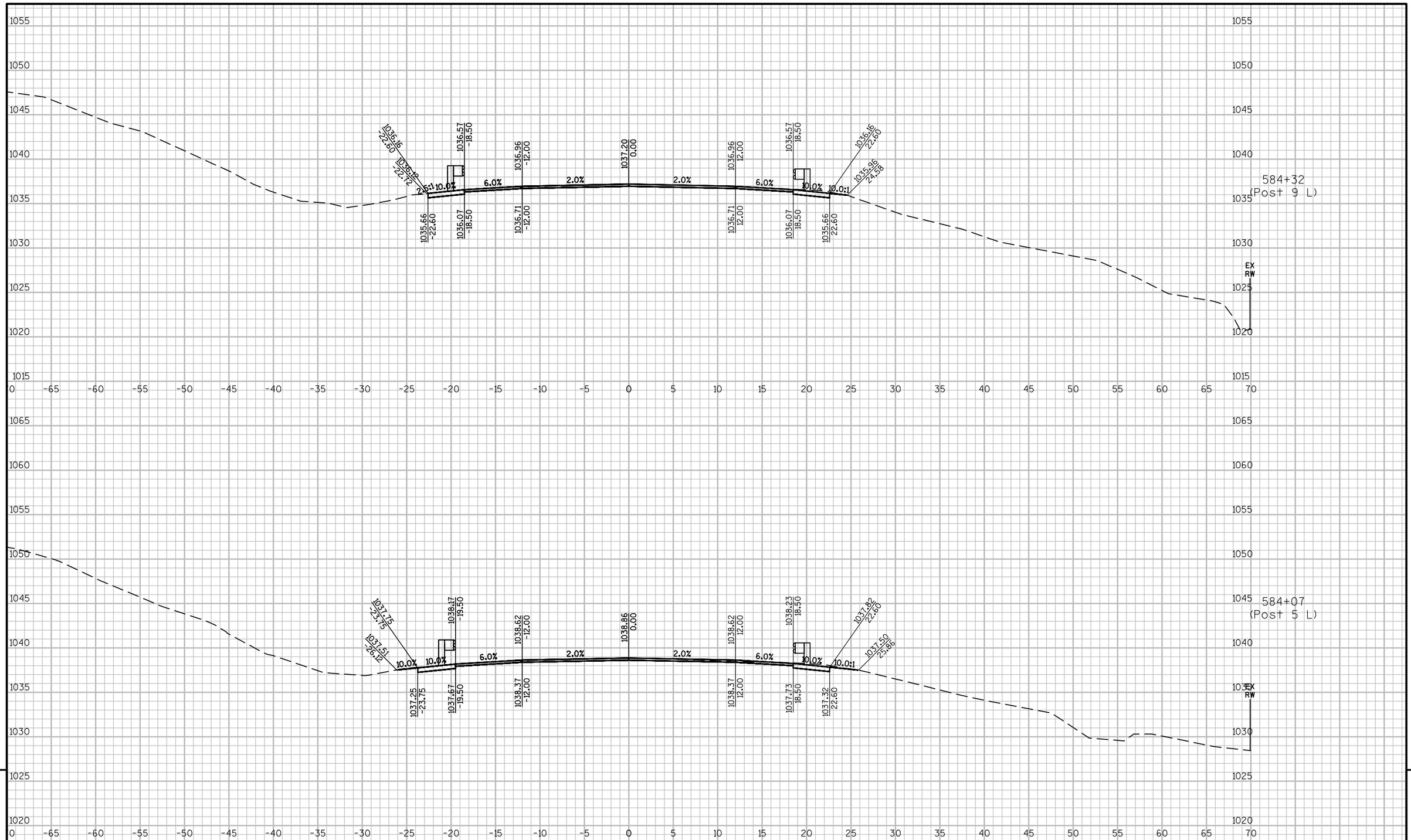


PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 214	E

FILE NAME : P:\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090256

PLOT DATE : 9/22/2017 10:05 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : PLOT SCALE : 1 IN:10 FT

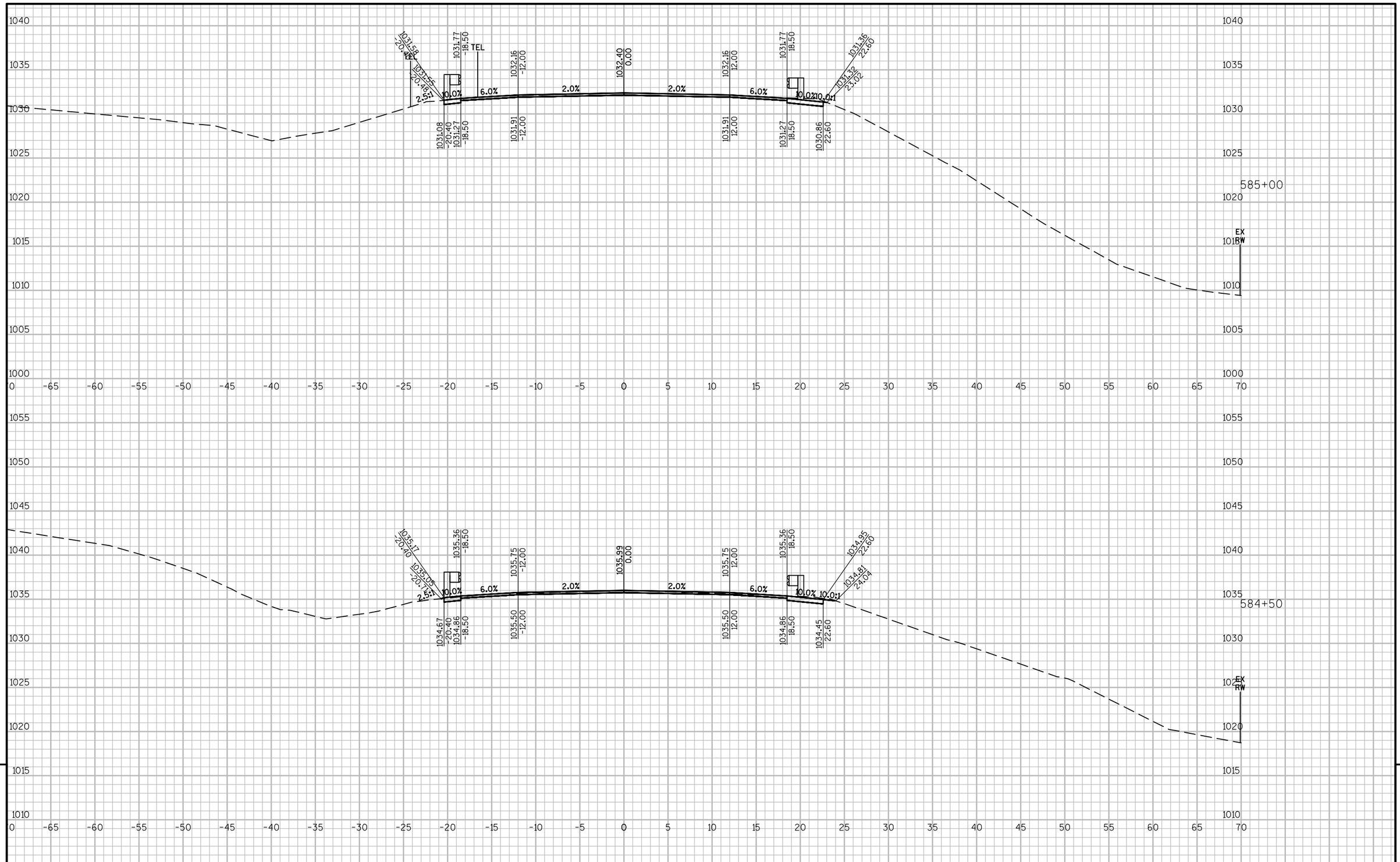
WISDOT/CADDS SHEET 49



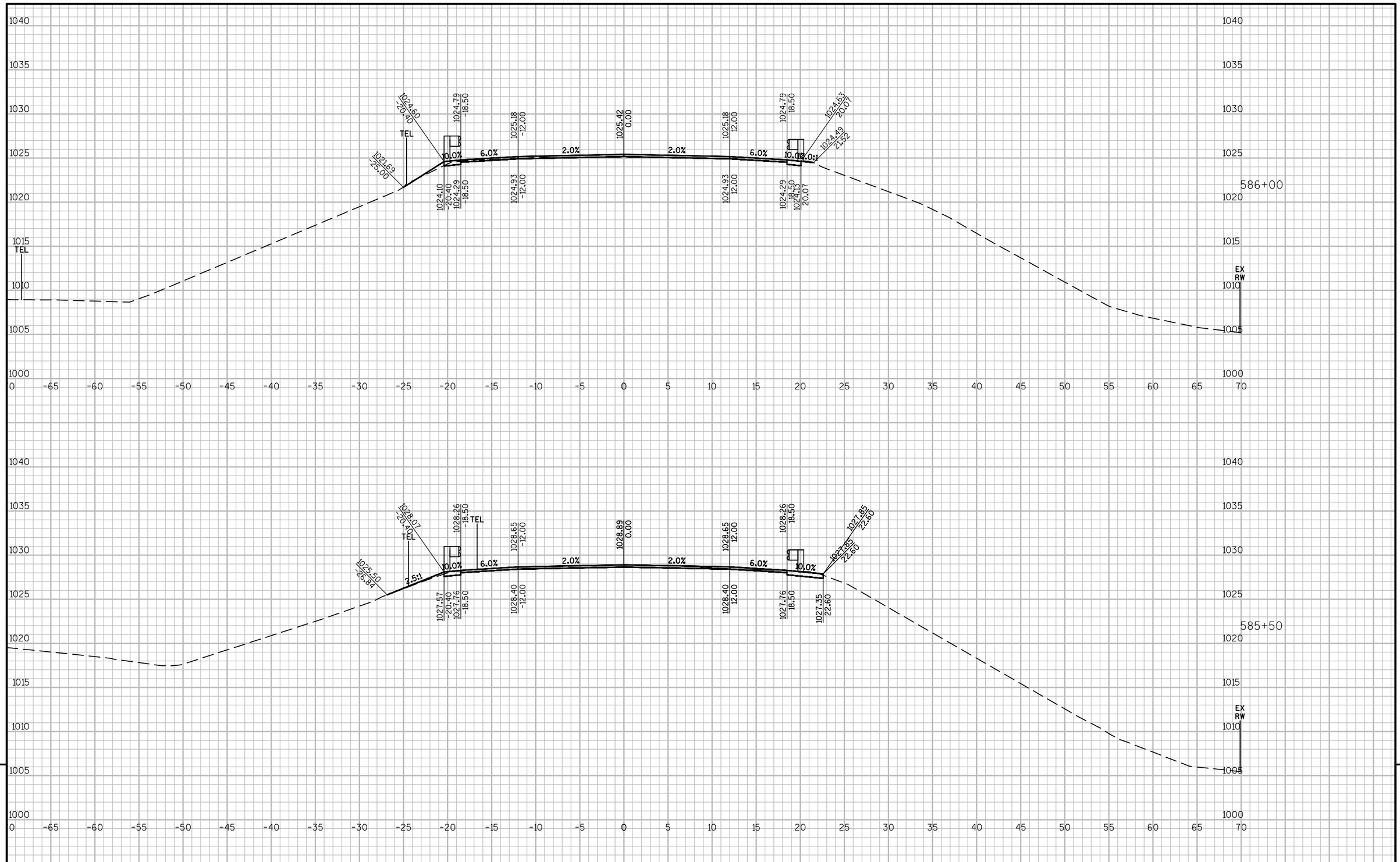
PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 215	E

FILE NAME : P:\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090257

PLOT DATE : 9/22/2017 10:06 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 216	E

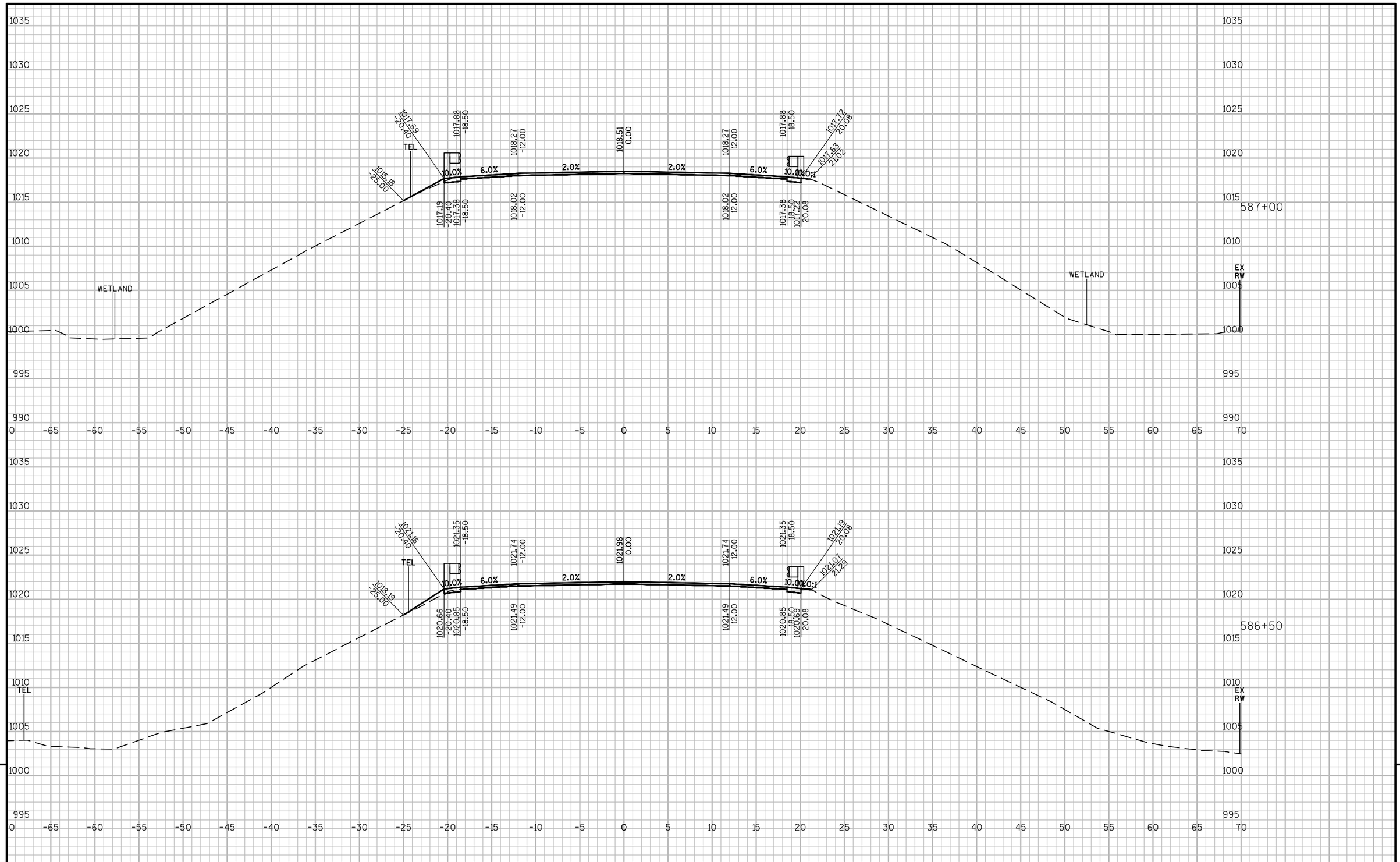


PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 217	E

FILE NAME : P:\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090259

PLOT DATE : 9/22/2017 10:08 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



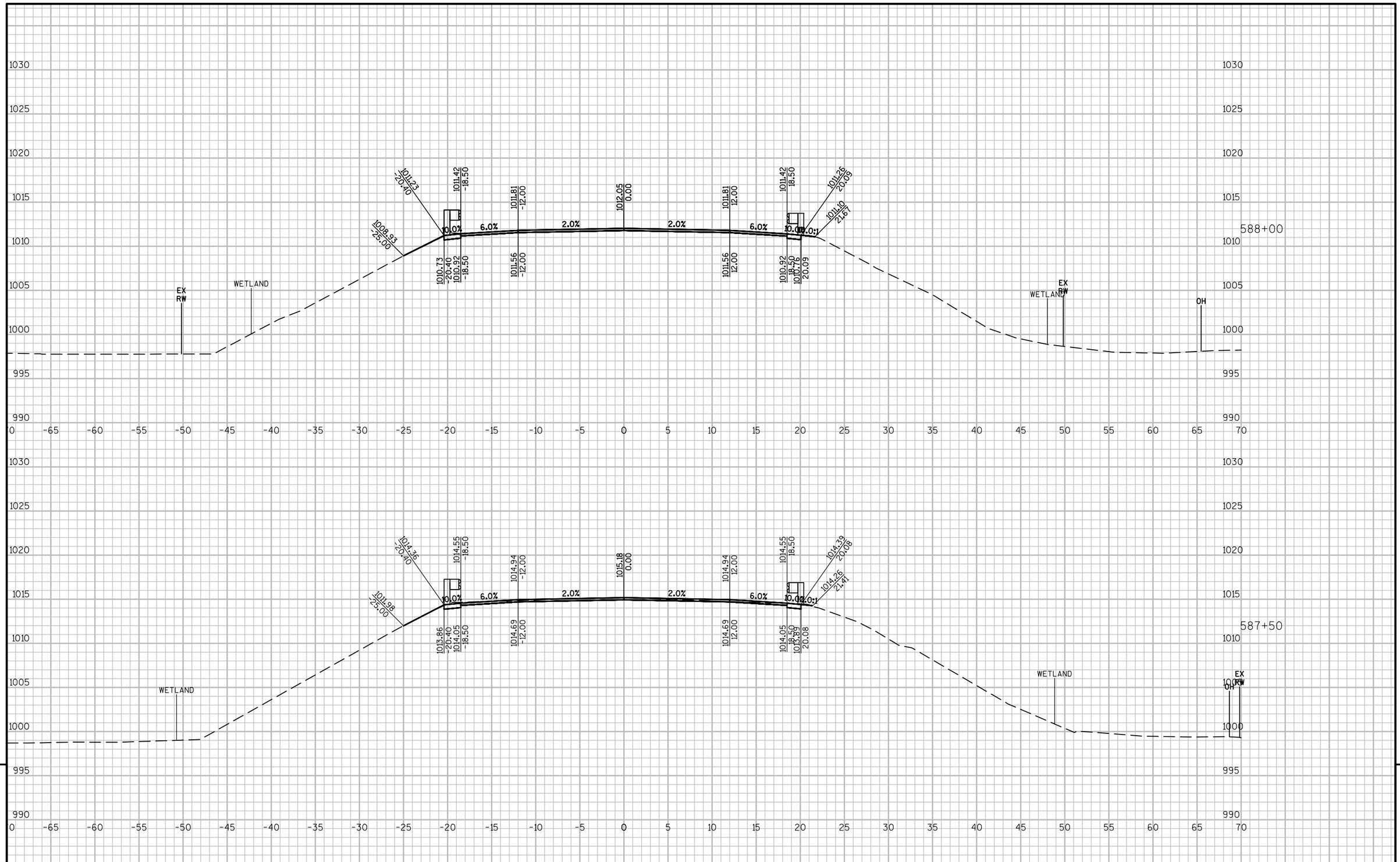
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PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 218	E

FILE NAME : P:\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090260

PLOT DATE : 9/22/2017 10:09 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : PLOT SCALE : 1 IN:10 FT

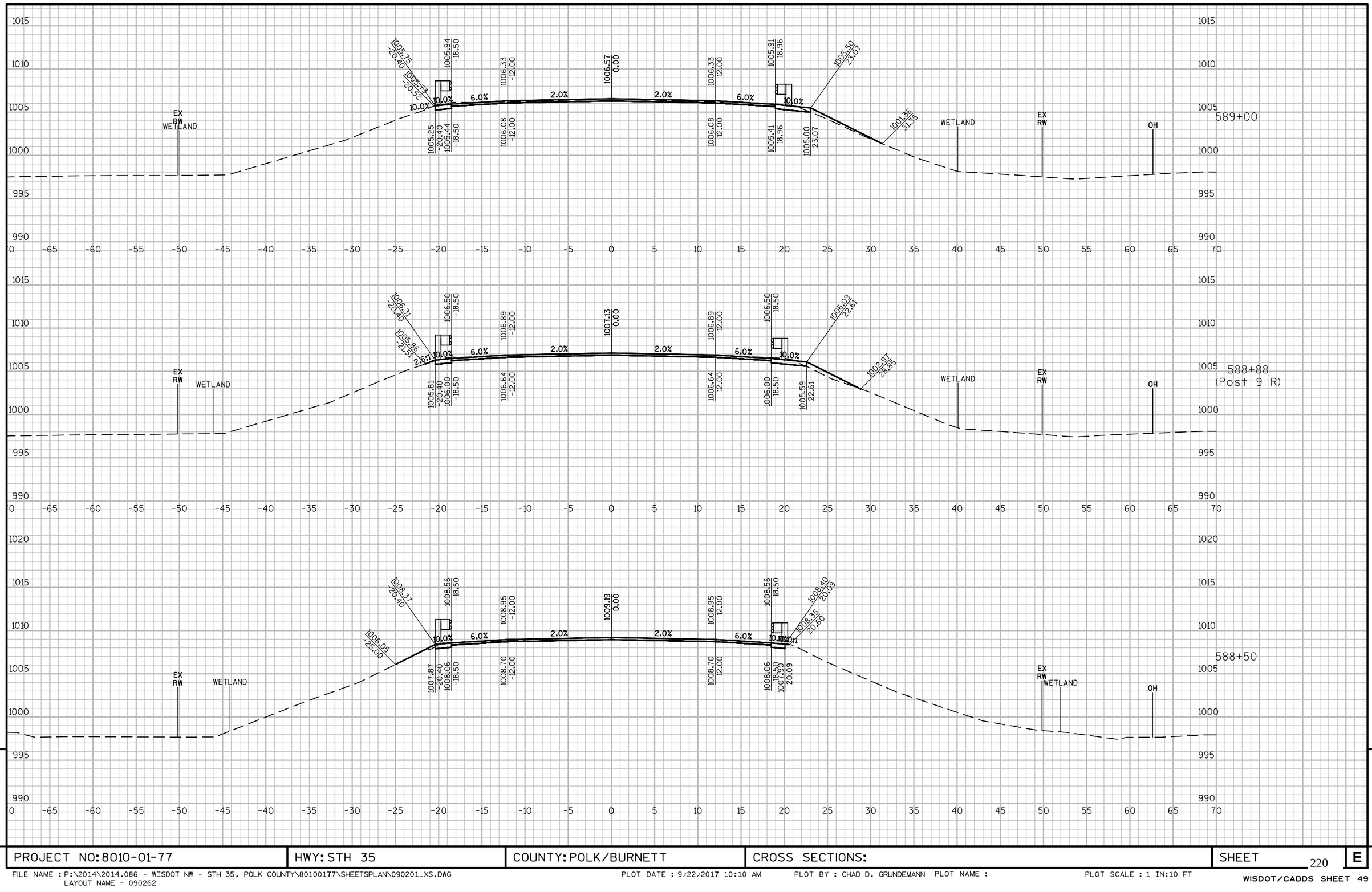


PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 219	E

FILE NAME : P:\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090261

PLOT DATE : 9/22/2017 10:10 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : PLOT SCALE : 1 IN:10 FT

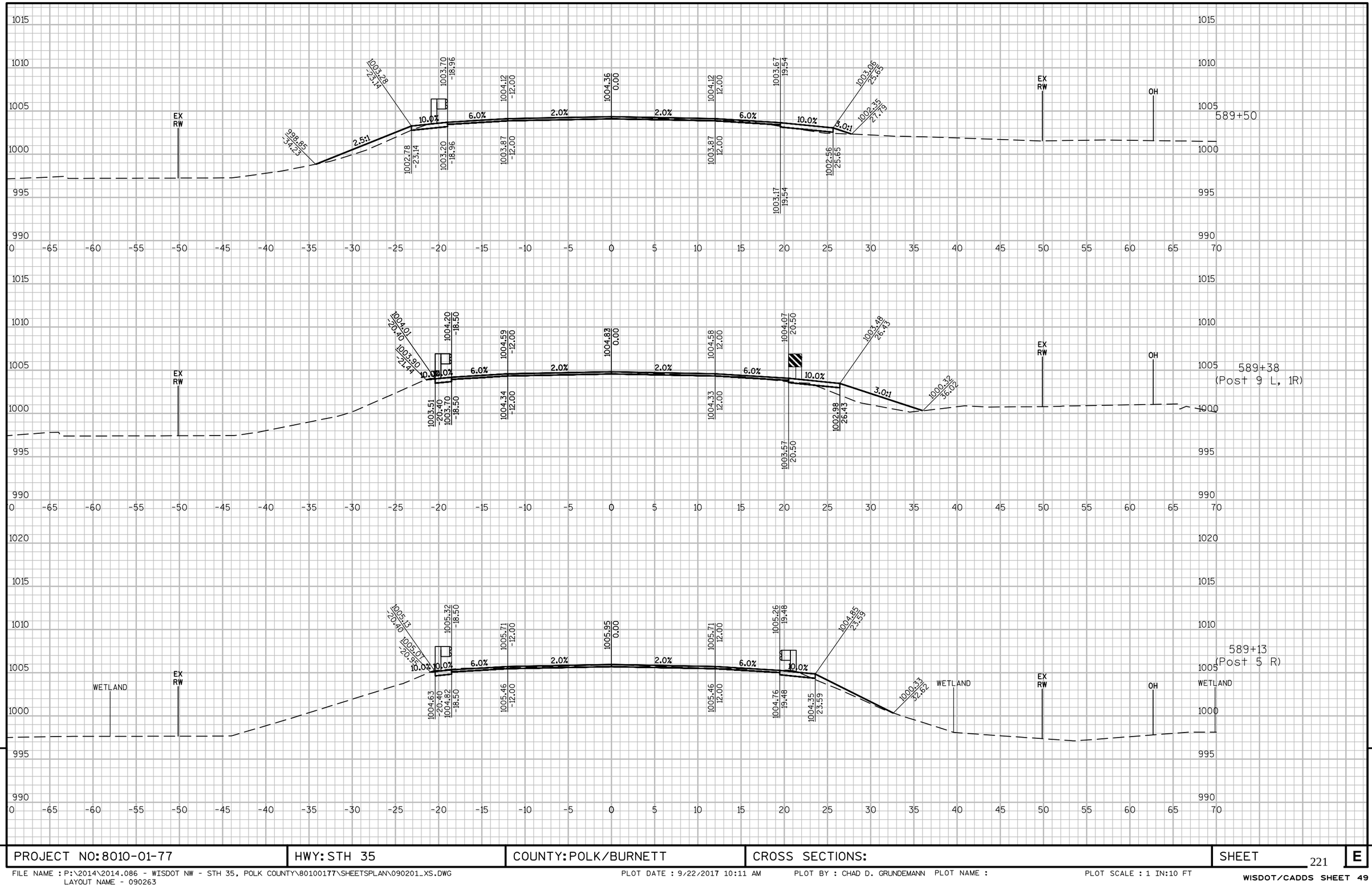
WISDOT/CADDS SHEET 49



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PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 220	E



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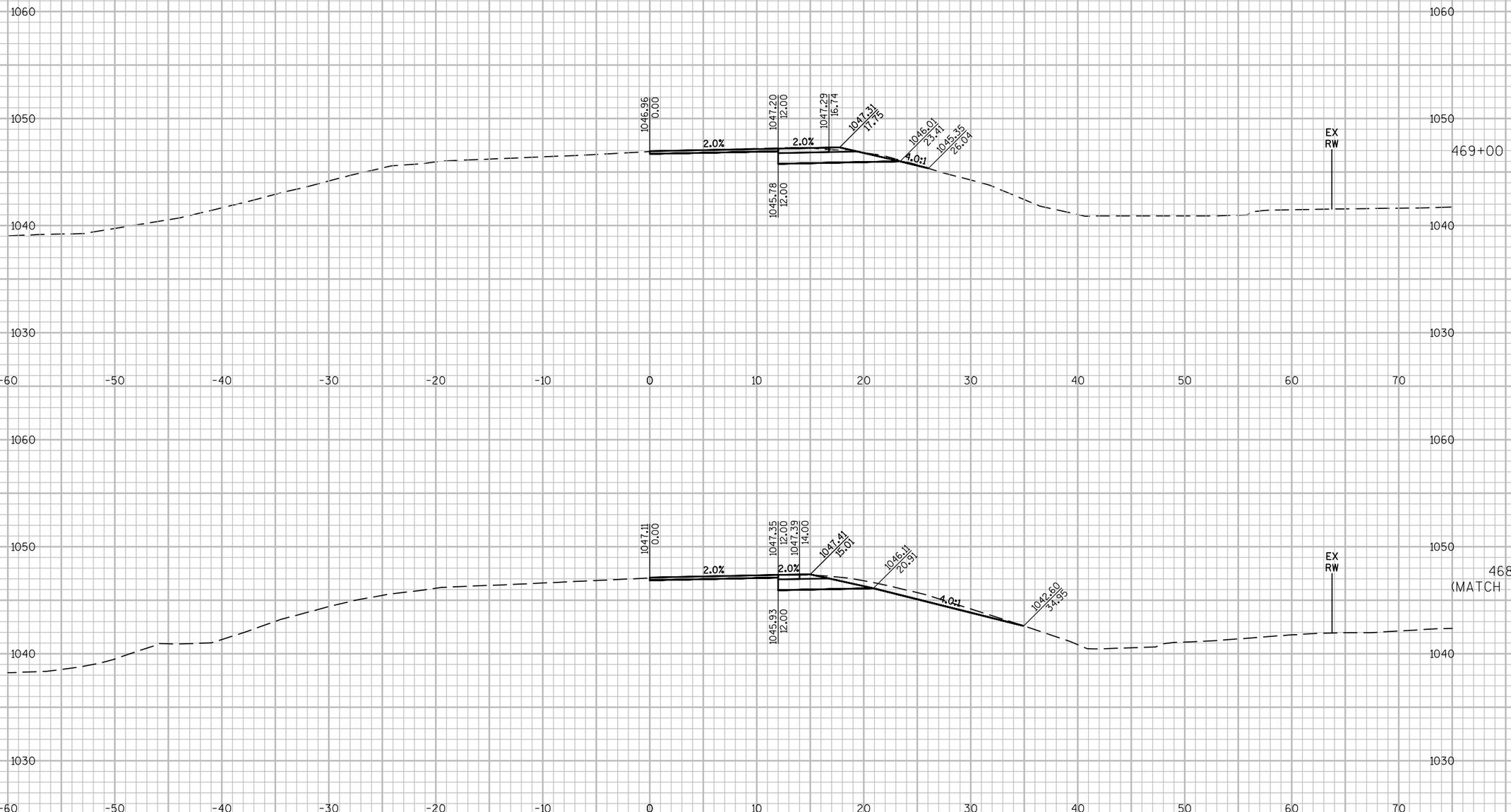
PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 221	E

PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS:	SHEET 222	E

FILE NAME : P:\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090264

PLOT DATE : 9/22/2017 10:12 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

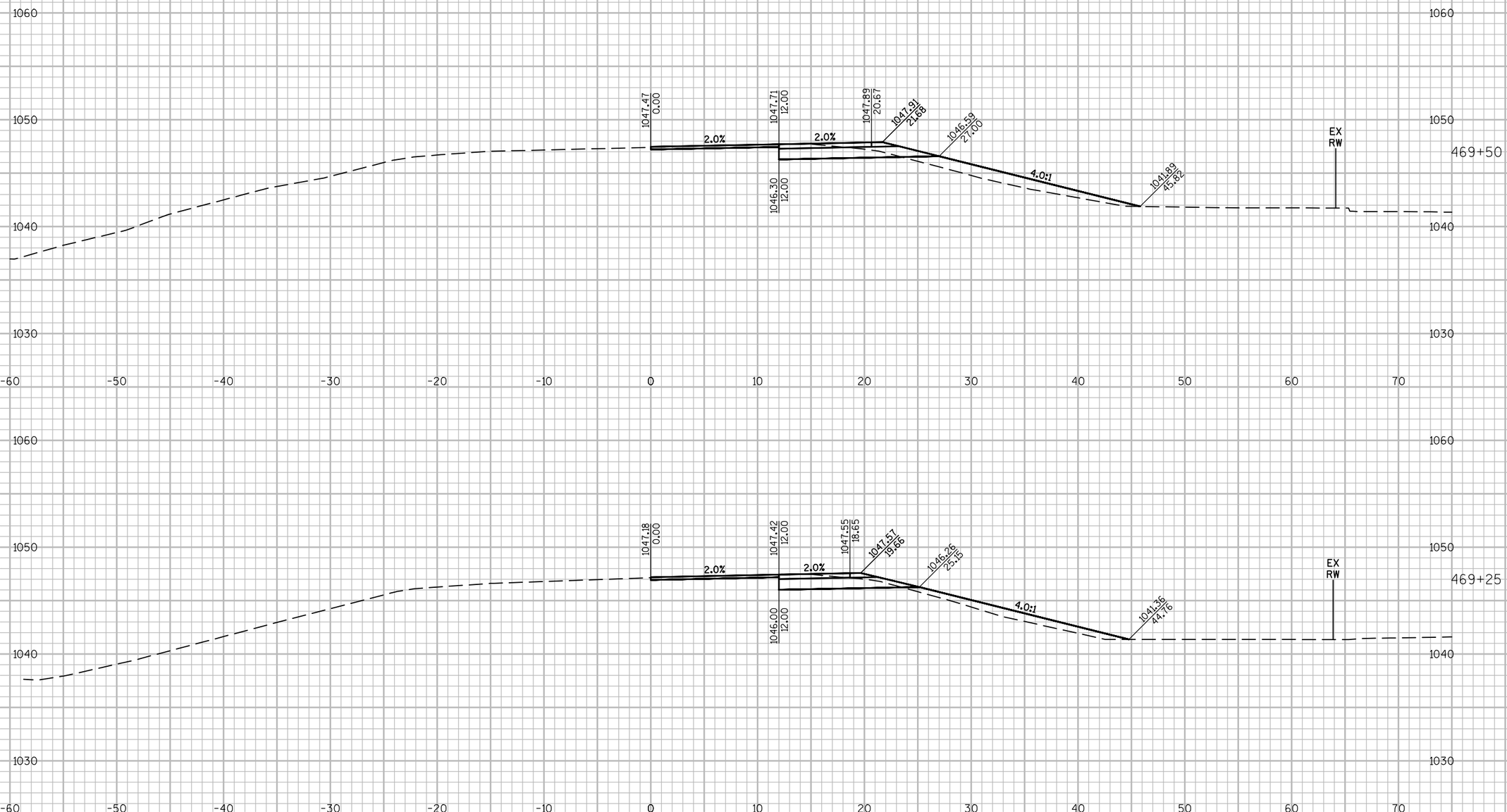


PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS: CTH E INTERSECTION	SHEET 223	E

FILE NAME : P:\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - SECTION SHEET - (1)

PLOT DATE : 9/22/2017 10:13 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : PLOT SCALE : 1:10_XREF

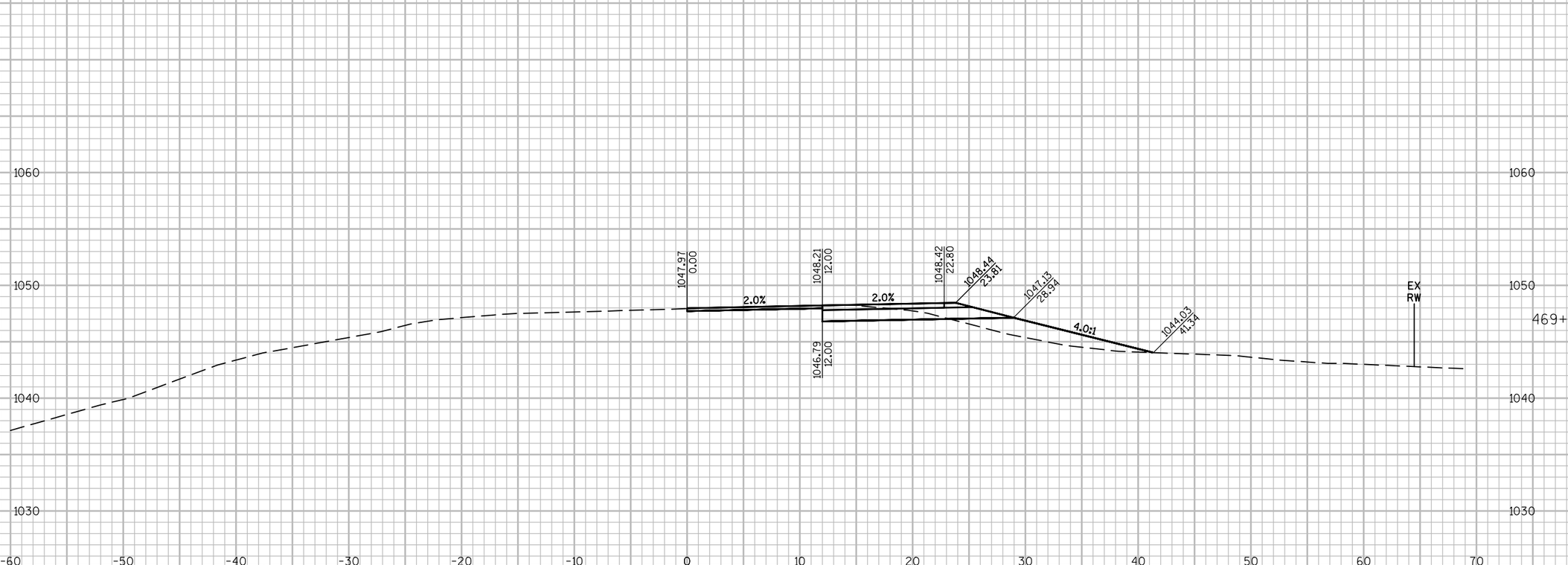
WISDOT/CADDS SHEET 49



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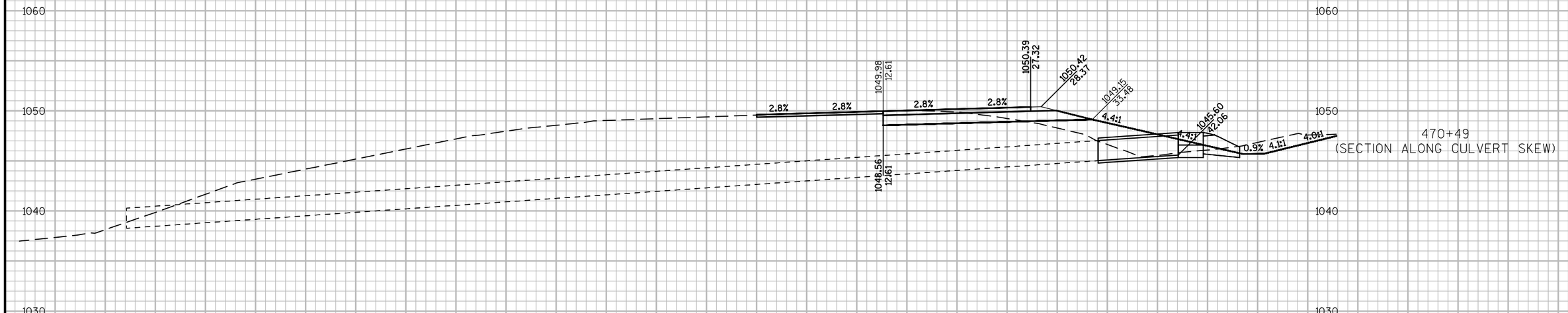
PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS: CTH E INTERSECTION	SHEET 224	E

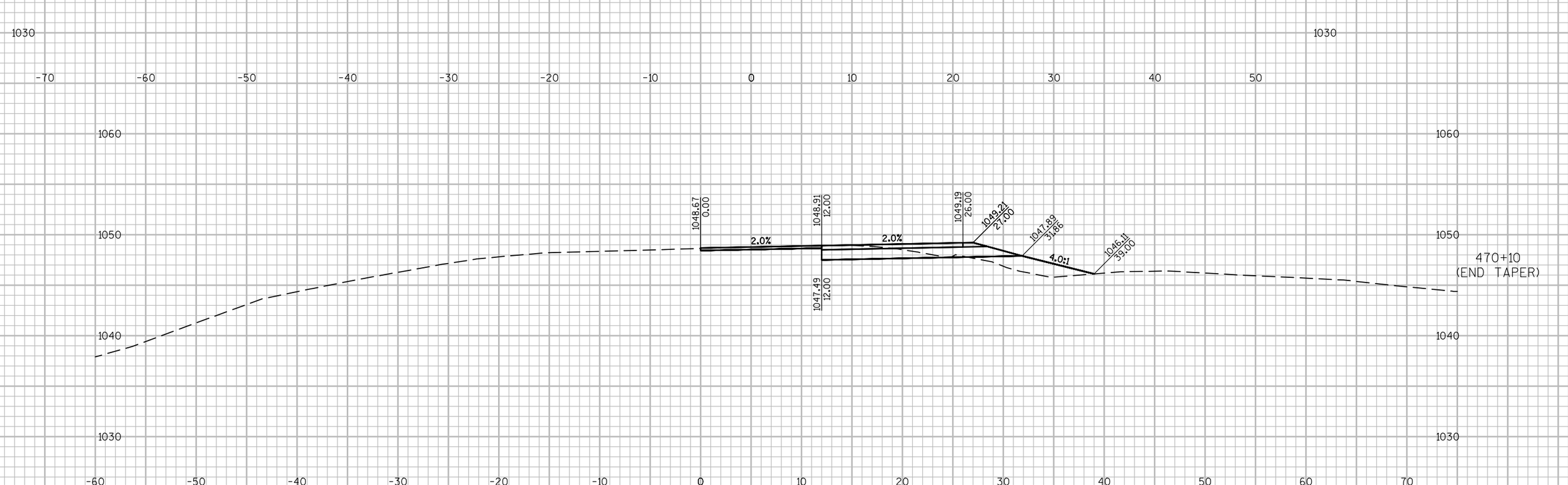


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PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS: CTH E INTERSECTION	SHEET 225	E

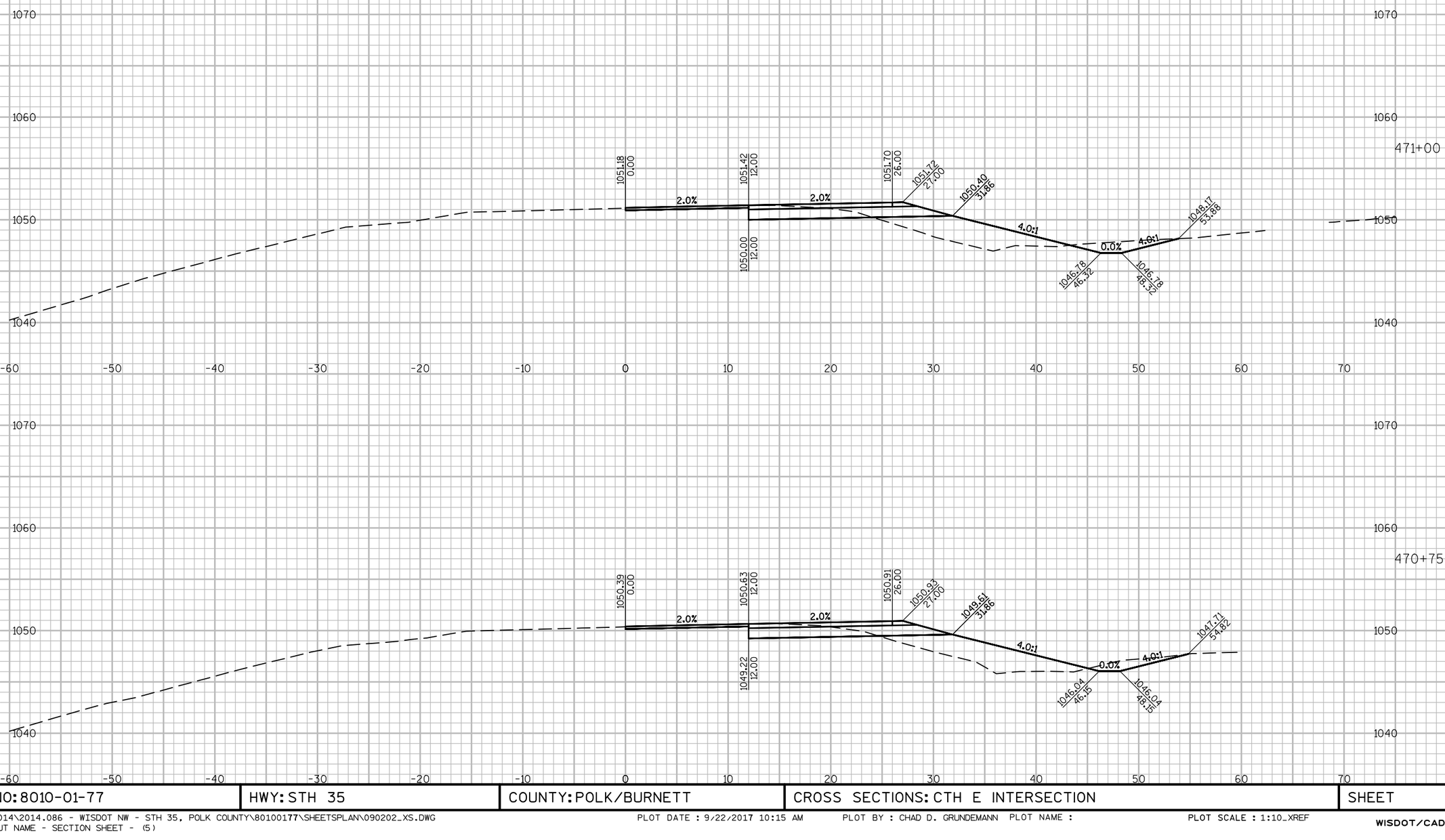




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PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS: CTH E INTERSECTION	SHEET 226	E



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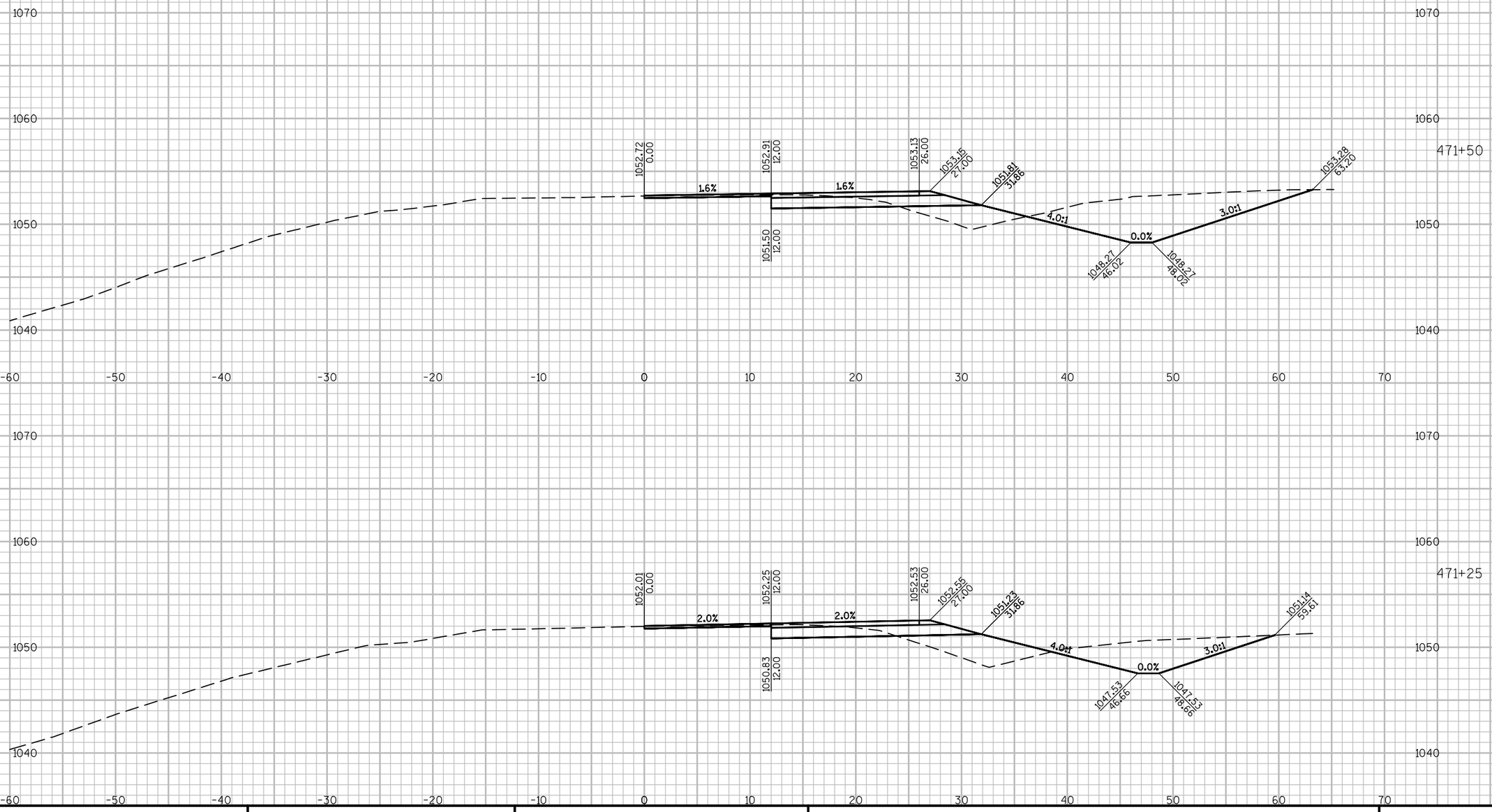
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PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS: CTH E INTERSECTION	SHEET 227	E

FILE NAME : P:\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - SECTION SHEET - (5)

PLOT DATE : 9/22/2017 10:15 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49

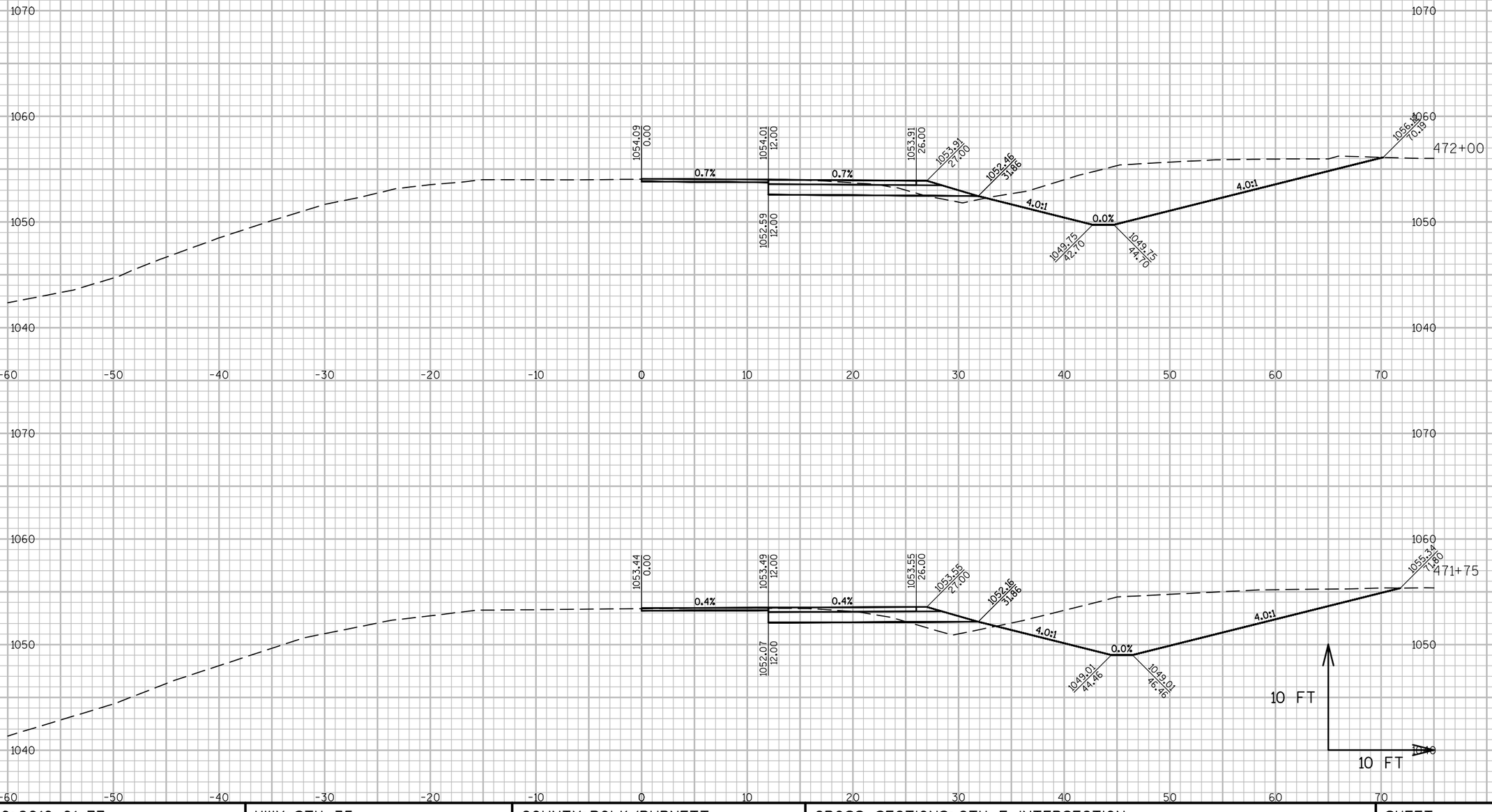


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PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS: CTH E INTERSECTION	SHEET 228	E

9

FILE NAME : P:\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - SECTION SHEET - (6)
PLOT DATE : 9/22/2017 10:15 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : PLOT SCALE : 1:10_XREF
WISDOT/CADDS SHEET 49



9

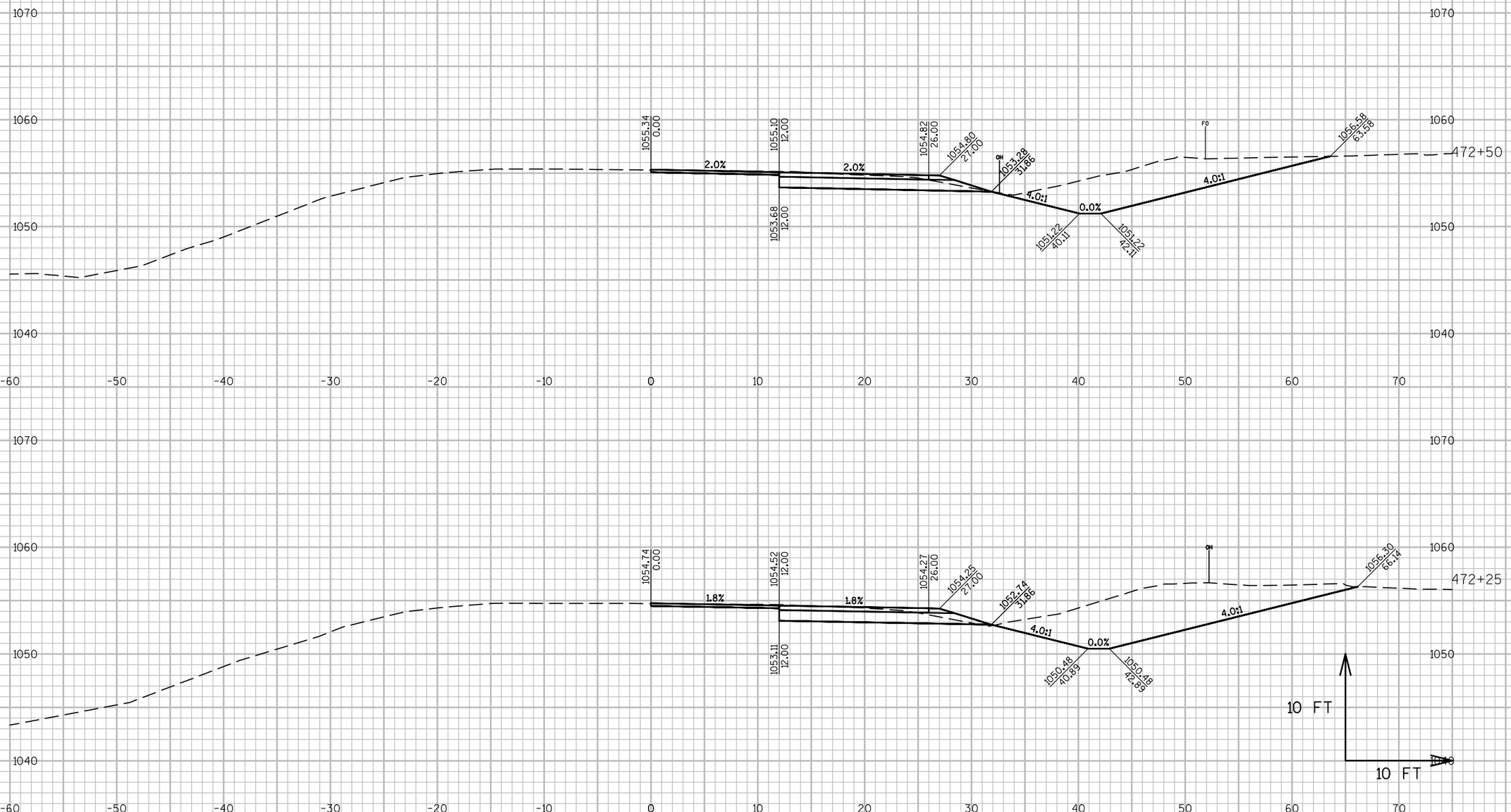
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PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS: CTH E INTERSECTION	SHEET 229	E

FILE NAME : P:\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090207

PLOT DATE : 9/22/2017 10:15 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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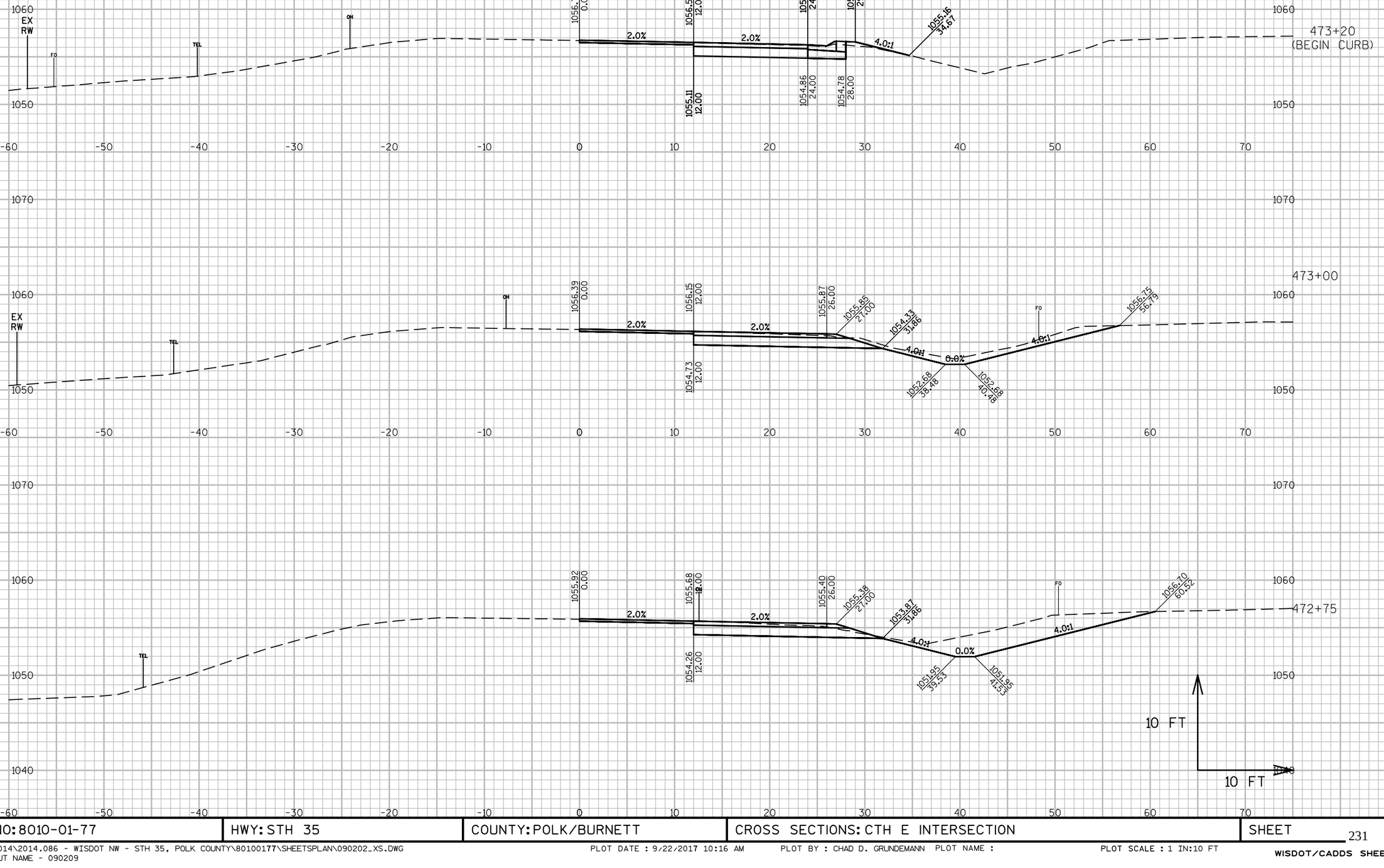
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PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS: CTH E INTERSECTION	SHEET 230	E

FILE NAME : P:\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090208

PLOT DATE : 9/22/2017 10:16 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

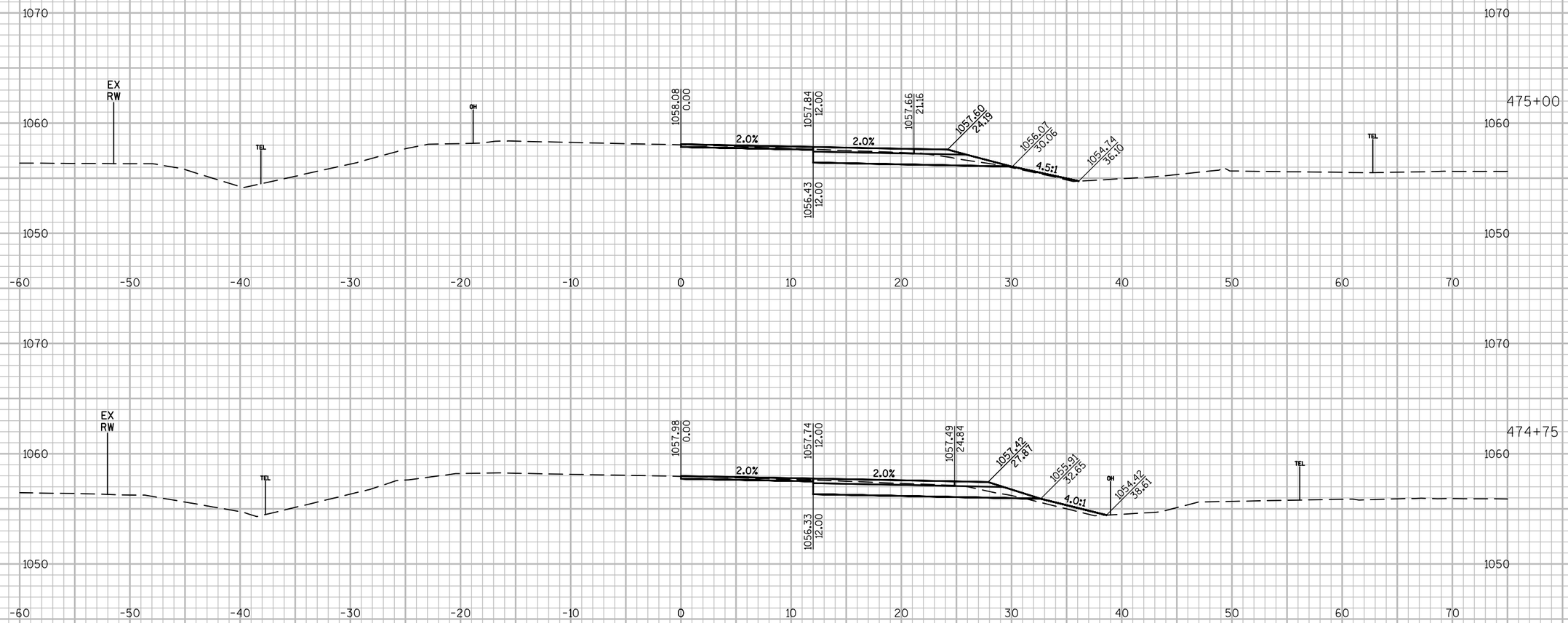


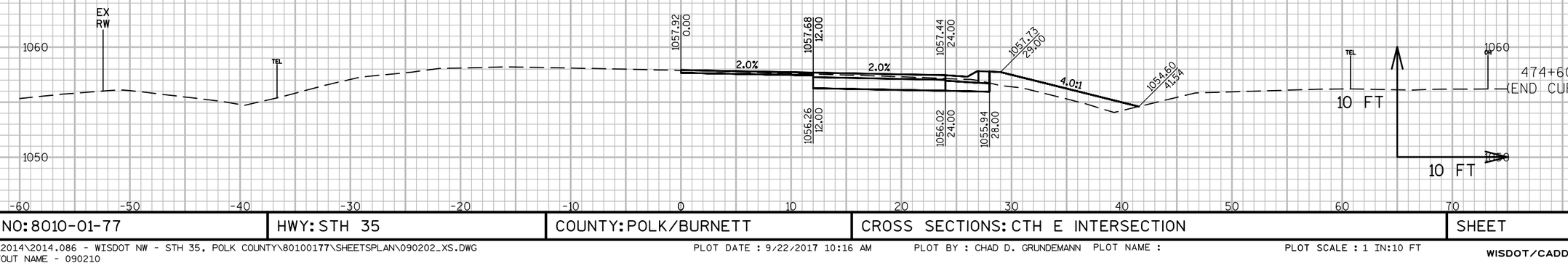
PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS: CTH E INTERSECTION	SHEET 231	E

FILE NAME : P:\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090209

PLOT DATE : 9/22/2017 10:16 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49





9

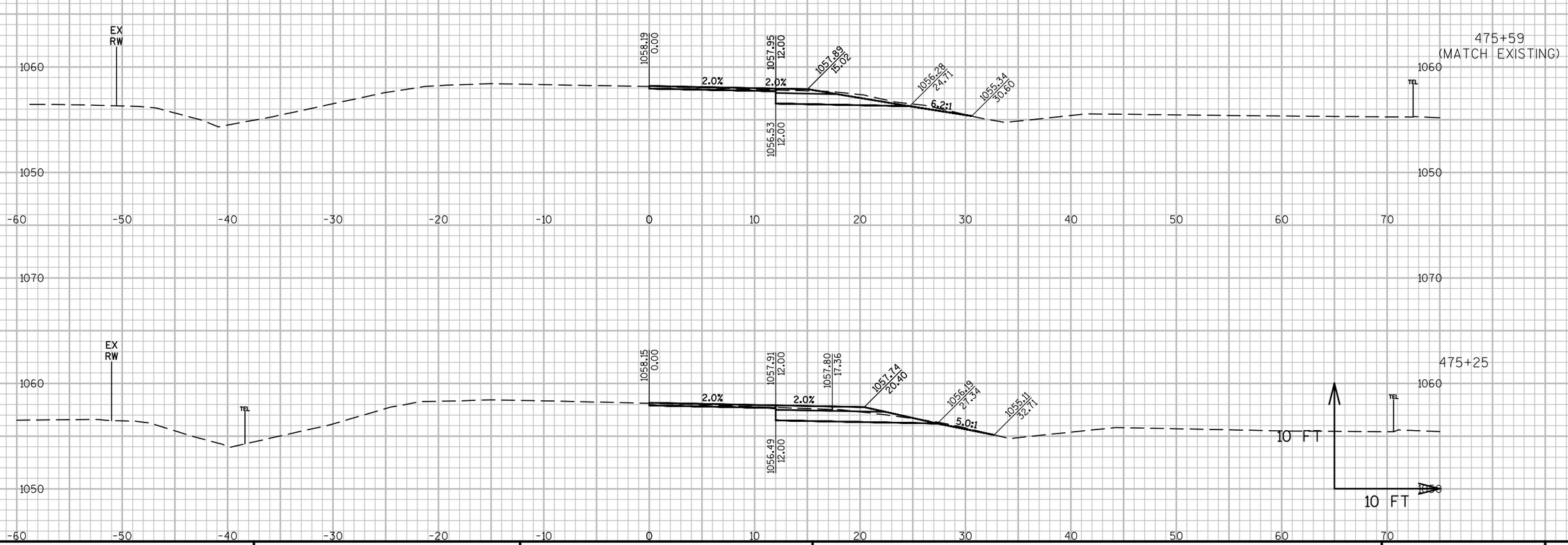
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PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS: CTH E INTERSECTION	SHEET 232	E

FILE NAME : P:\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090210

PLOT DATE : 9/22/2017 10:16 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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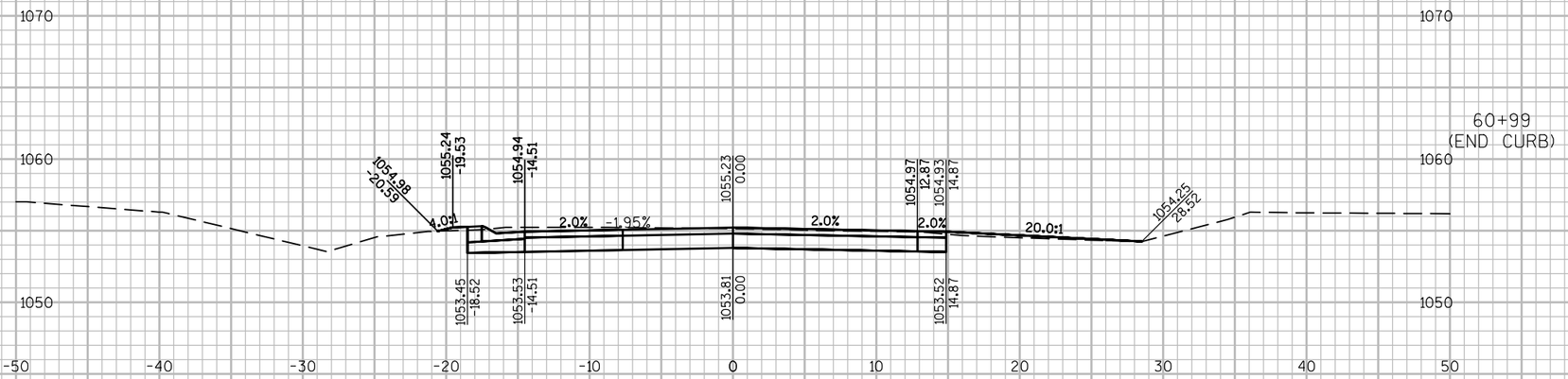
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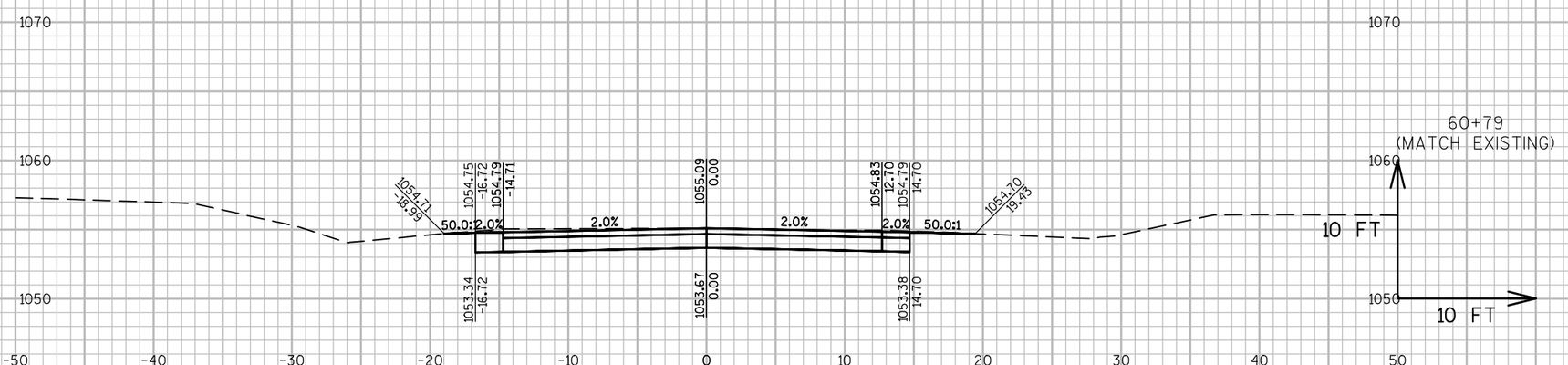
PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS: CTH E INTERSECTION	SHEET 233	E

FILE NAME : P:\2014\2014.086 - WISDOT NW - STH 35, POLK COUNTY\80100177\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090211

PLOT DATE : 9/22/2017 10:17 AM PLOT BY : CHAD D. GRUNDEMANN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49





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PROJECT NO: 8010-01-77	HWY: STH 35	COUNTY: POLK/BURNETT	CROSS SECTIONS: CTH E	SHEET 234	E

Notes

Wisconsin Department of Transportation

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