PROJECT ID: 1058-25-70
WITH: 6580-11-60

COUNTY: SHAWANO

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details (Inc. Erosion Cntrl)
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 =

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

SHAWANO - GREEN BAY

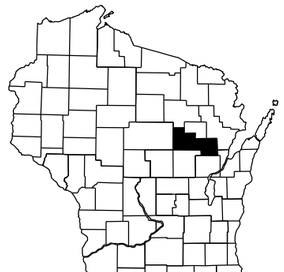
STH 29 & STH 156 INTERSECTION

STH 29

SHAWANO COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1058-25-70		

PRELIMINARY



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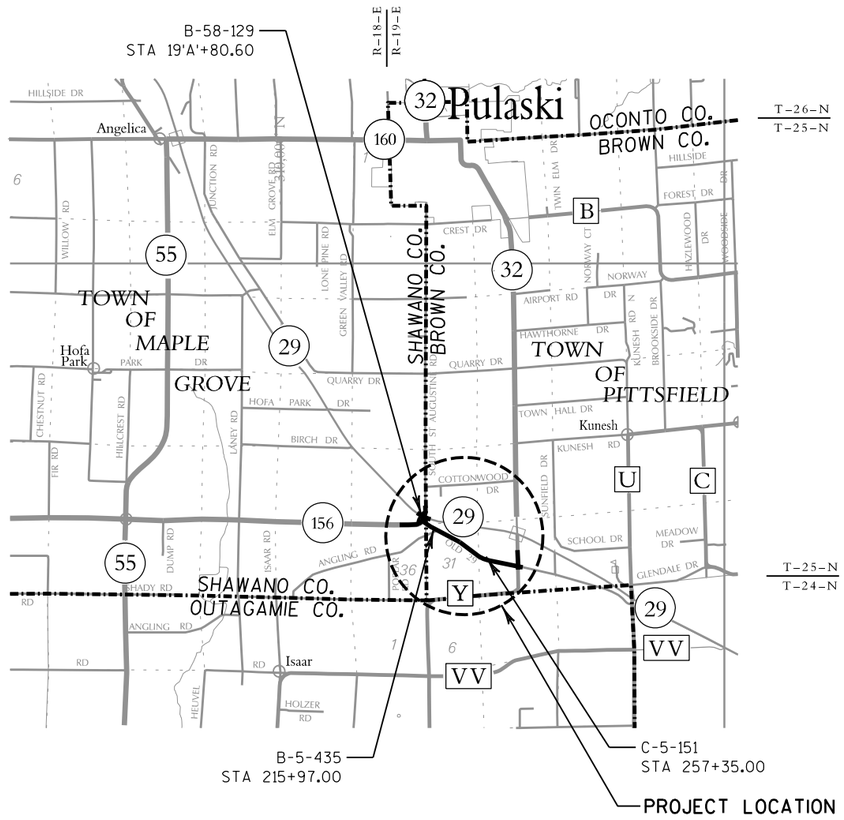
STATE PROJECT NUMBER
1058-25-70



DESIGN DESIGNATION			STH 29	STH 156/ OLD 29 DR	STH 156/ CTH Y	ST. AUGUSTINE RD
A.A.D.T.	(2017)	=	15,300	1,900	4,700	460
A.A.D.T.	(2037)	=	16,800	2,500	5,300	510
D.H.V.	(2037)	=	2,170	325	685	70
D.D.	(2037)	=	60/40	60/40	60/40	60/40
T.	(2037)	=	9.6%	9.6%	9.6%	UNKNOWN
DESIGN SPEED		=	70 MPH	50 MPH	60 MPH	45 MPH
ESALS		=	N/A	370,000	840,000	81,000

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

LAYOUT
SCALE 0 1 MI.

TOTAL NET LENGTH OF CENTERLINE =
STH 29 = 0.352 MILES
STH 156 = 1.740 MILES
ST. AUGUSTINE RD = 0.511 MILES

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), SHAWANO COUNTY, (NAD 83), 1991 ADJUSTMENT

ALL ELEVATIONS ON THIS PROJECT ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

ORIGINAL PLANS PREPARED BY
emcs.inc
500 North 17th Avenue
Wausau, WI 54401
715.845.1081 Fax 715.845.1099

WISCONSIN
STEPHANIE G. CHRISTENSEN
E35808
WAUSAU, WI
PROFESSIONAL ENGINEER

Stephanie G. Christensen
11-28-2016

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	EMCS, INC.
Designer	EMCS, INC.
Project Manager	JIM VOLKMANN
Regional Examiner	CHERYL SIMON
Regional Supervisor	MIKE WENDT

APPROVED FOR THE DEPARTMENT

DATE: 11/30/2016 (Signature)

E

GENERAL NOTES

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

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.

COORDINATE SYSTEM OF THE RIGHT-OF-WAY PLAT VARIES IN WISCONSIN COUNTY COORDINATES, SHAWANO COUNTY, NAD 83, (1991) & WISCONSIN COUNTY COORDINATES, BROWN COUNTY, NAD 83, (1991) DEPENDING ON THE SHEET LOCATION. ENGINEERING PLANS ARE STRICTLY REFERENCED TO WISCONSIN COUNTY COORDINATES, SHAWANO COUNTY, NAD 83, (1991).

AS-BUILTS USED FOR PLAN DEVELOPMENT

PROJECT NO. 6167-01-71
PROJECT NO. 1059-15-83
PROJECT NO. 9202-02-71

REFERENCE LINE CALL OUTS

'A'	ST. AUGUSTINE RD OVERPASS
'S'	EXISTING STH 156 & EXISTING ST. AUGUSTINE RD TO BE REMOVED
'T'	EXISTING OLD 29 DR TO BE REMOVED
'EB'	STH 29 (EASTBOUND)
'Y'	STH 156/CTH Y
'W'	STREAM REALIGNMENT ON ST. AUGUSTINE RD
'B'	TEMPORARY BYPASS OF STREAM REALIGNMENT ON ST. AUGUSTINE RD

ORDER OF SECTION 2 SHEETS

PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
INTERSECTION DETAILS
CROSS SECTION MATCH LINE DETAILS
EROSION CONTROL
PERMANENT SIGNING
PAVEMENT MARKING
TRAFFIC CONTROL
ALIGNMENT DETAILS

UTILITIES

ANR PIPELINE COMPANY
(GAS)
MATTHE HISCHKE
N4956 OAKCREST DRIVE
BONDUEL, WI 54107
(715) 758-3345
(715) 460-4042 (MOBILE)
MATTHEW_HISCHKE@TRANSCANADA.COM

NORTHEAST TELEPHONE COMPANY, LLC
(COMMUNICATIONS)
DENNIS BAER
5475 GLENDALE AVE
GREEN BAY, WI 54313
(920) 865-3162
DENNIS.BAER@NSIGHT.COM

WE ENERGIES
(ELECTRIC DISTRIBUTION)
TOM BRAUN
800 SOUTH LYNDALE DRIVE
APPLETON, WI 54911
(920) 380-3452
(920) 428-3114 (MOBILE)
TOM-B.BRAUN@WE-ENERGIES.COM

WISCONSIN PUBLIC SERVICE
(ELECTRIC DISTRIBUTION)
RANDY D. STEIER
2850 SOUTH ASHLAND AVENUE
PO BOX 19001
GREEN BAY, WI 54307
(920) 617-5167
(920) 655-1596 (MOBILE)
RDSTEIER@WISCONSINPUBLICSERVICE.COM

ATC MANAGEMENT, INC.
(ELECTRIC TRANSMISSION)
GERALD RHODE
801 OKEEFE ROAD
DE PERE, WI 54115
(920) 338-6523
GHRODE@ATCLLC.COM

CENTURYLINK COMMUNICATIONS LLC FKA QWEST COMMUNICATIONS
(COMMUNICATIONS)
BOB SAMPSON
1310 EAST MARY STREET
OTTUMWA, IA 52501
(636) 887-5367 (MOBILE)
ROBERT.SAMPSON@CENTURYLINK.COM

WISCONSIN PUBLIC SERVICE CORPORATION
(GAS)
DAVID CZARNECKI
2850 SOUTH ASHLAND AVENUE
PO BOX 19001
GREEN BAY, WI 54304
(920) 617-5132
DFCZARNECKI@WISCONSINPUBLICSERVICE.COM

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

OTHER CONTACTS

DNR LIAISON
JAMES DOPERALSKI JR
2984 SHAWANO AVE
P.O. BOX 10448
GREEN BAY, WI 54307-0448
(920) 662-5119
JAMES.DOPERALSKI@WISCONSIN.GOV

BROWN COUNTY SURVEYOR
TERRY VAN HOUT
305 EAST WALNUT ST, ROOM 320
PO BOX 23600
GREEN BAY, WI 54307
(920) 448-6493
VANHOUT_TL@CO.BROWN.WI.US

U.S. ARMY CORPS OF ENGINEERS
RYAN HUBER
211 NORTH BROADWAY, SUITE 221
GREEN BAY, WI 54303
(651) 290-5859
RYAN.J.HUBER@USACE.ARMY.MIL

2

N

END CONSTRUCTION
ST. AUGUSTINE RD
STA 37'A'+00.00

REALIGN UNNAMED TRIBUTARY TO THE WEST BRANCH OF THE SUAMICO RIVER

END CONSTRUCTION
EXISTING ST. AUGUSTINE RD
STA 22'S'+59.51

ST. AUGUSTINE RD

PROPOSED ATC OVERHEAD TRANSMISSION LINE ROUTE (2017/2018)

BEGIN CONSTRUCTION
STH 29
STA 316'EB'+50.00

PROPOSED ST. AUGUSTINE RD OVERPASS
CONSTRUCT STRUCTURE B-58-129
CONSTRUCT MEDIAN GUARDRAIL ON STH 29

UNNAMED TRIBUTARY OF THE WEST BRANCH OF THE SUAMICO RIVER (WEST)

BEGIN CONSTRUCTION
ST. AUGUSTINE RD
STA 10'A'+24.00

BEGIN CONSTRUCTION
STH 156
STA 196+50.00

SEE PROJECT 6580-11-60
MILL & HMA OVERLAY

STH 156 PAVEMENT RECONSTRUCTION
STA 196+50 TO
STA 217+50

END RECONSTRUCTION
BEGIN MILL & HMA OVERLAY
STA 217+50

WEST BRANCH OF THE SUAMICO RIVER

END HMA MILL & OVERLAY
BEGIN RECONSTRUCTION
STA 18'S'+70.00

END RECONSTRUCTION
BEGIN HMA MILL & OVERLAY
STA 13'S'+75.00

CONSTRUCT CUL-DE-SAC

BEGIN CONSTRUCTION
EXISTING ST. AUGUSTINE RD
STA 11'S'+39.00

END CONSTRUCTION
STH 29
STA 335'EB'+09.00

REMOVE C-5-54
CONSTRUCT B-5-435
SALVAGE & REPLACE GUARDRAIL

END MILL & HMA OVERLAY
BEGIN RECONSTRUCTION
STA 253+89

REMOVE EXISTING BOX CULVERT STRUCTURE
CONSTRUCT C-5-151
STH 156 PAVEMENT RECONSTRUCTION
STA 253+89 TO STA 260+54
SALVAGE & REPLACE GUARDRAIL

END RECONSTRUCTION
BEGIN MILL & HMA OVERLAY
STA 260+54

UNNAMED TRIBUTARY OF THE WEST BRANCH OF THE SUAMICO RIVER (EAST)

END MILL & HMA OVERLAY
BEGIN RECONSTRUCTION
STA 276+25

INTERSECTION RECONSTRUCTION

END CONSTRUCTION
STH 156
STA 12'Y'+92.00

END TURN LANE RECONSTRUCTION
STA 10'Y'+67

END RECONSTRUCTION
BEGIN MILL & HMA OVERLAY
STA 8'Y'+50

END CONSTRUCTION
OLD 29 DR
STA 286+59.26

END RECONSTRUCTION
STA 282+50

BEGIN CONSTRUCTION
CTH Y
STA 3'Y'+17.00

ONEIDA NATION PROPERTY
(NO WORK IN THIS AREA)

UNNAMED TRIBUTARY OF THE WEST BRANCH OF THE SUAMICO RIVER (EAST)

WEST BRANCH OF THE SUAMICO RIVER

COTTONWOOD DR

EXISTING ST. AUGUSTINE RD

ANGLE DR

EXISTING STH 156

STH 156

STH 29

STH 32

STH 29/32

STH 156/OLD 29 DR

CTH Y

TOWN

MAPLE GROVE

PITTSFIELD

SHAWANO COUNTY
BROWN COUNTY

300'EB'+00
320'EB'+00
340'EB'+00
360'EB'+00
380'EB'+00
400'EB'+00
420'EB'+00
180+00
200+00
10'T'+00
220+00
240+00
260+00
280+00
40'A'+00
20'S'+00
22'Y'+00
12'Y'+00
2'Y'+00

OH

NOTES
WITHIN SHAWANO COUNTY "OLD 29" IS REFERRED TO AS "OLD 29 RD", AND WITHIN BROWN COUNTY IT IS REFERRED TO AS "OLD 29 DR"

FOR THE PURPOSE OF PLAN DEVELOPMENT, IT WILL BE KNOWN AS "OLD 29 DR"

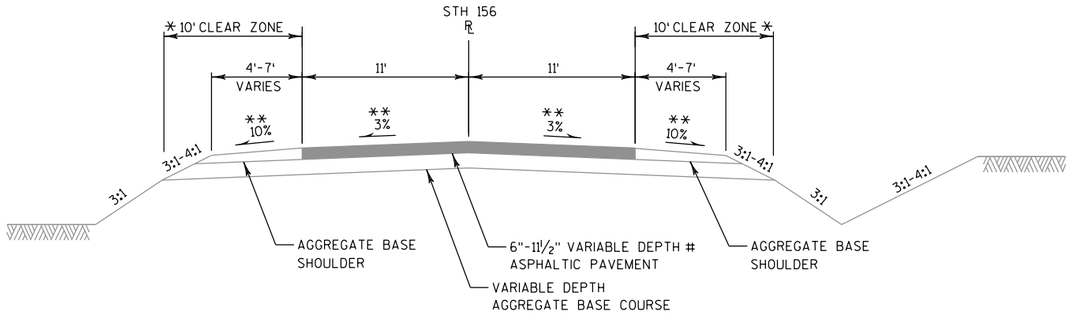
STH 156 NORTH OF OLD 29 DR AT STH 29/STH 32 IS KNOWN AS CTH Y IN THE EXISTING CONDITION; CTH Y WILL STOP AT THE STH 159/OLD 29 DR INTERSECTION IN THE PROPOSED CONDITION

LEGEND

REMOVE EXISTING ROADWAY CONNECTIONS AT STH 29

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	PROJECT OVERVIEW	SHEET	E

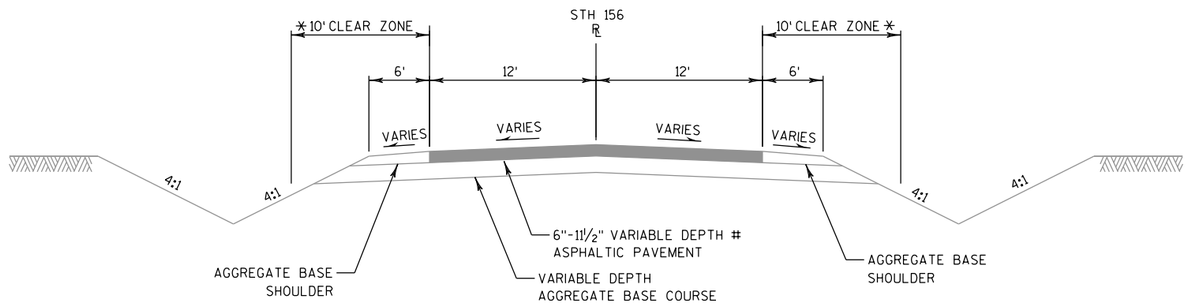
FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\020201_po.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:800



TYPICAL EXISTING SECTION
STH 156
STA 196+50 - STA 200+19

PAVEMENT CORES (2004)

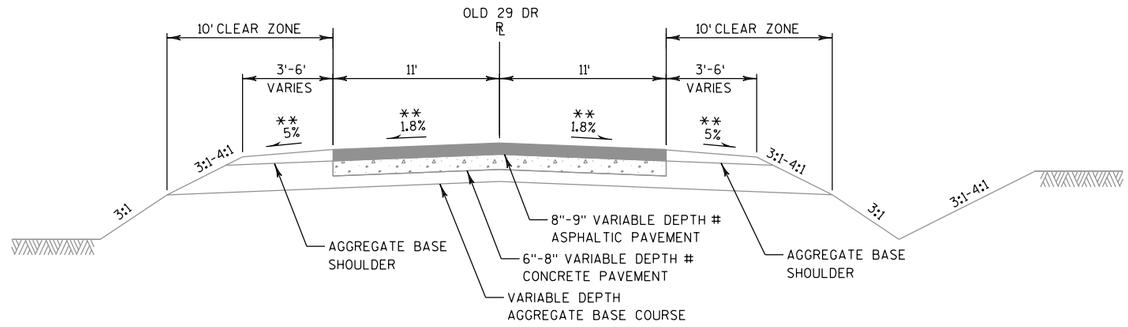
CORE NO.	STATION	LOCATION	ASPH. DEPTH	CONC. DEPTH
2	226+52	3' LT	8.5"	6"
3	237+08	11' RT	8.5"	7"
4	247+64	11' LT	9"	6.5"
5	258+20	7' RT	9"	7"
6	268+76	7' LT	8"	8"



TYPICAL EXISTING SECTION
STH 156
STA 200+19 - STA 201+07
STA 1'S'+00 - STA 9'S'+66

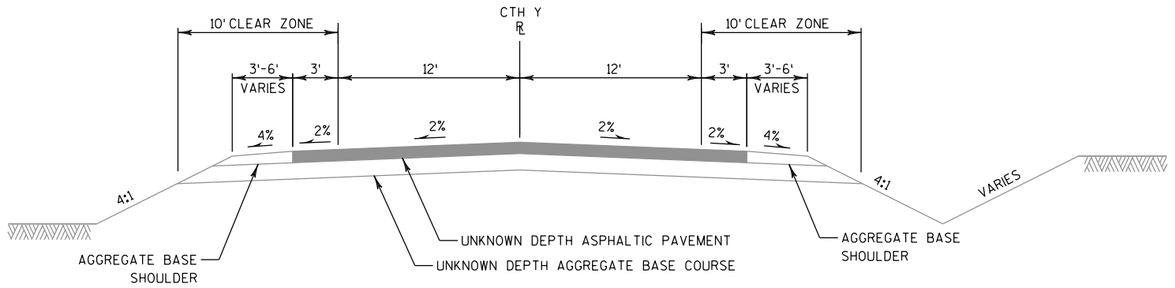
NOTES
* CLEAR ZONE AS PREVIOUSLY CONSTRUCTED PER AS BUILTS
** CROSS SLOPE VARIES THROUGHOUT PROJECT; AVERAGE CROSS SLOPES SHOWN

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	TYPICAL SECTIONS	SHEET	E



TYPICAL EXISTING SECTION
OLD 29 DR

STA 5'T'+68 - STA 14'T'+60
STA 214+96 - STA 286+59.26



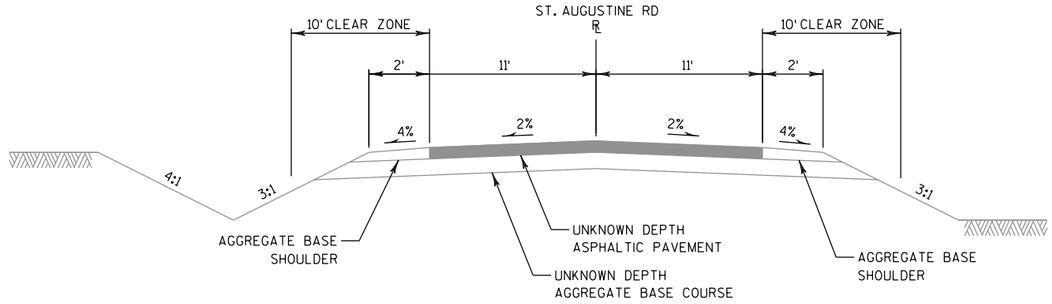
TYPICAL EXISTING SECTION
CTH Y

STA 3'Y'+17 - STA 12'Y'+92

NOTE

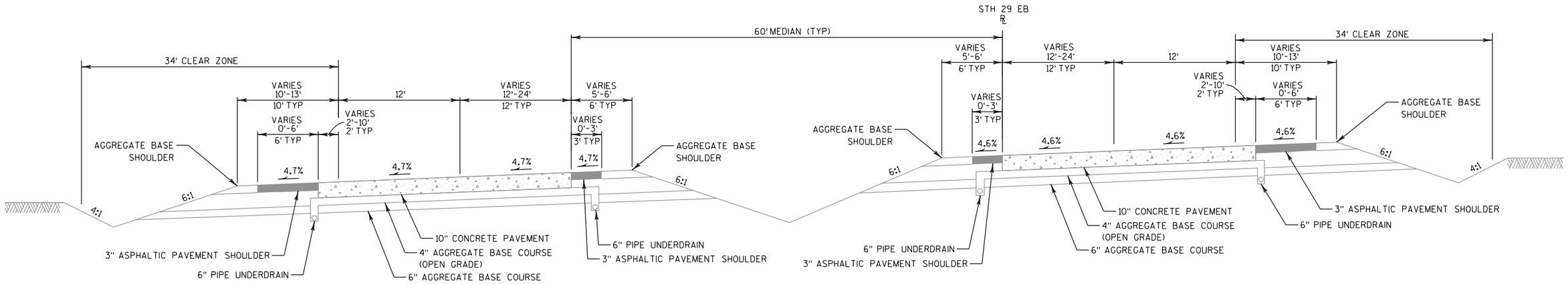
** CROSS SLOPE VARIES THROUGHOUT PROJECT; AVERAGE CROSS SLOPES SHOWN
# SEE PAVEMENT CORE LOG

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	TYPICAL SECTIONS	SHEET	E



TYPICAL EXISTING SECTION
ST. AUGUSTINE RD

STA 11'S'+38 - STA 21'S'+00
STA 29'A'+50 - STA 37'A'+00

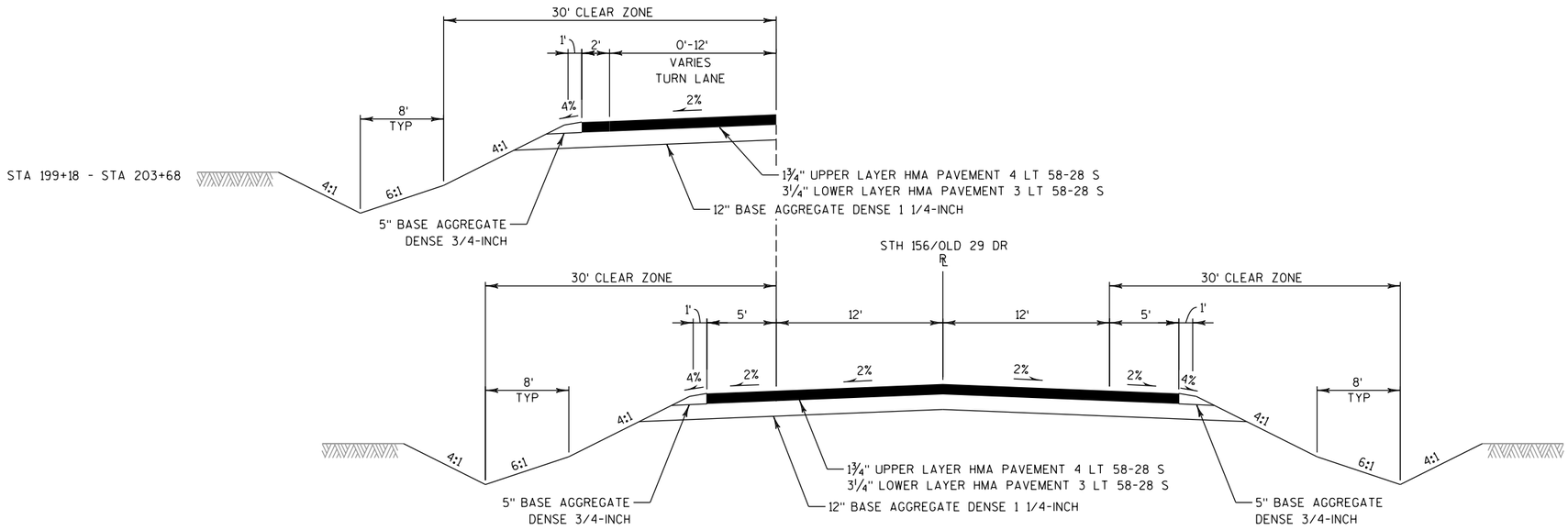


TYPICAL EXISTING SECTION
STH 29

STA 316'EB'+50 - STA 335'EB'+09

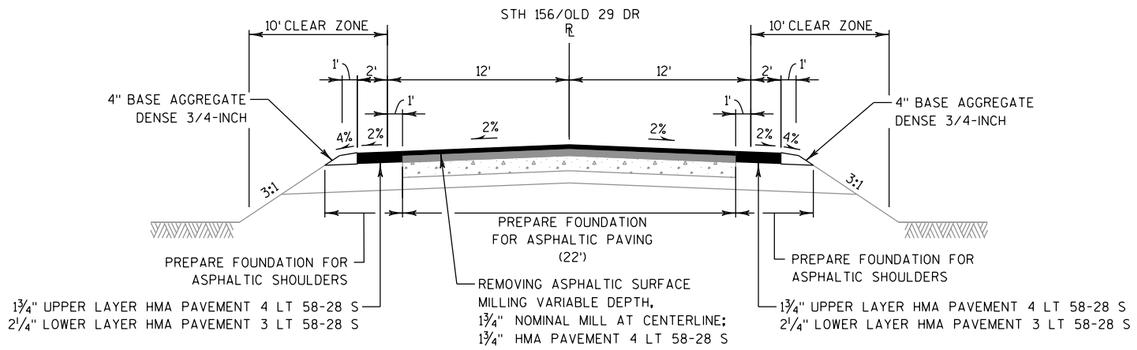
PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	TYPICAL SECTIONS	SHEET	E

2



TYPICAL FINISHED SECTION
STH 156/OLD 29 DR

STA 196+50 - STA 217+50
STA 253+89 - STA 260+54



TYPICAL FINISHED SECTION
STH 156/OLD 29 DR

STA 217+50 - STA 253+89
STA 260+54 - STA 276+25

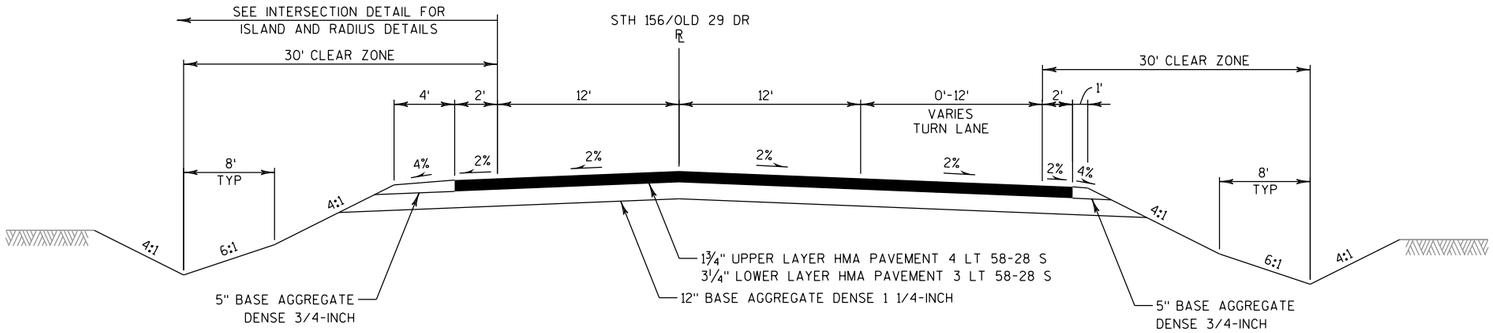
NOTES

SEE CROSS SECTIONS, CONSTRUCTION DETAILS, AND SDDS FOR SLOPES & SHOULDERS AT GUARDRAIL

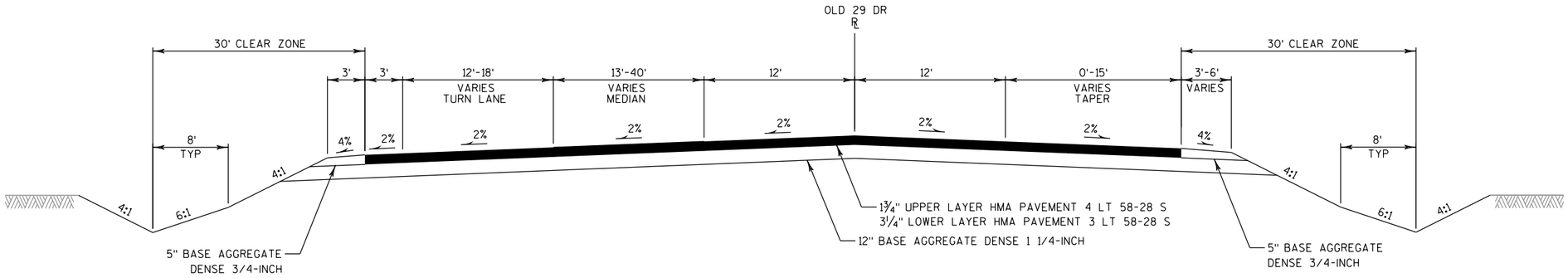
PAVEMENT CROSS SLOPE VARIES DUE TO SUPERELEVATION; SEE ALIGNMENT DETAIL SHEETS FOR SUPERELEVATION DATA

INSTALL SAFETY EDGE PER SDD

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	TYPICAL SECTIONS	SHEET	E



TYPICAL FINISHED SECTION
STH 156/OLD 29 DR
STA 276+25 - STA 280+36



TYPICAL FINISHED SECTION
OLD 29 DR
STA 280+36 - STA 282+50

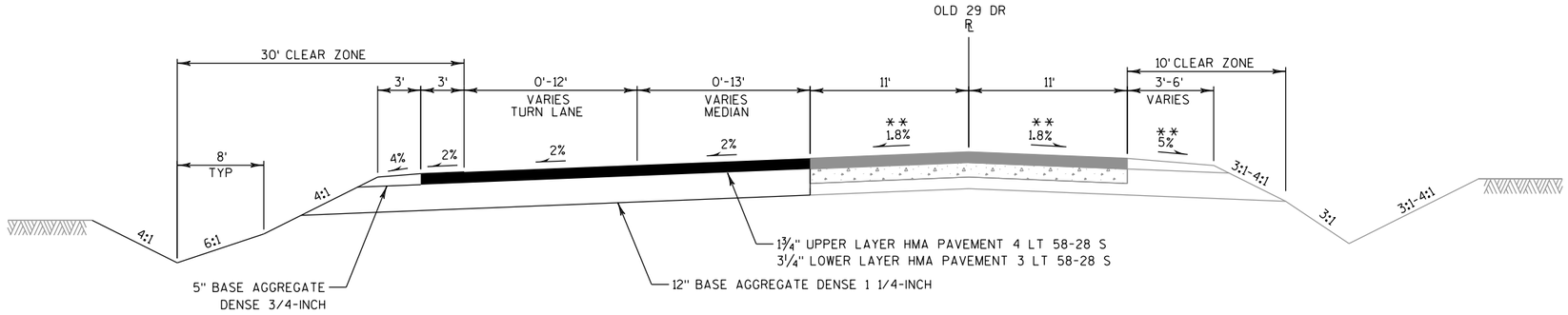
NOTES

SEE CROSS SECTIONS, CONSTRUCTION DETAILS, AND SDDS FOR SLOPES & SHOULDERS AT GUARDRAIL

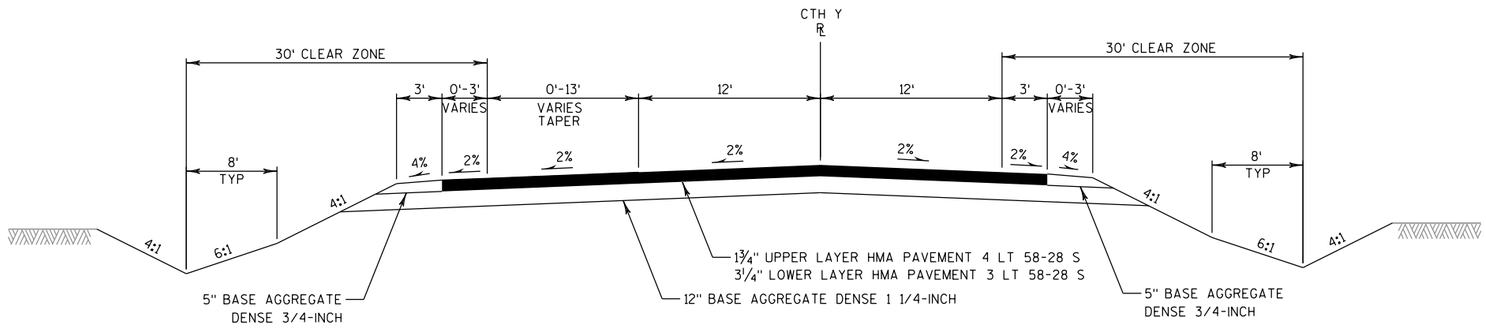
PAVEMENT CROSS SLOPE VARIES DUE TO SUPERELEVATION; SEE ALIGNMENT DETAIL SHEETS FOR SUPERELEVATION DATA

INSTALL SAFETY EDGE PER SDD

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	TYPICAL SECTIONS	SHEET	E



TYPICAL FINISHED SECTION
OLD 29 DR
STA 282+50 - STA 286+59



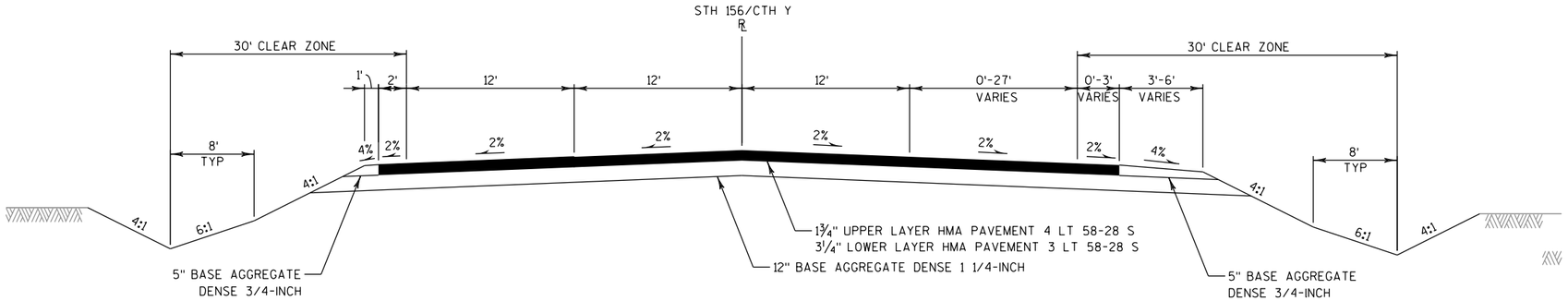
TYPICAL FINISHED SECTION
CTH Y
STA 3'Y'+17 - STA 4'Y'+89

NOTES

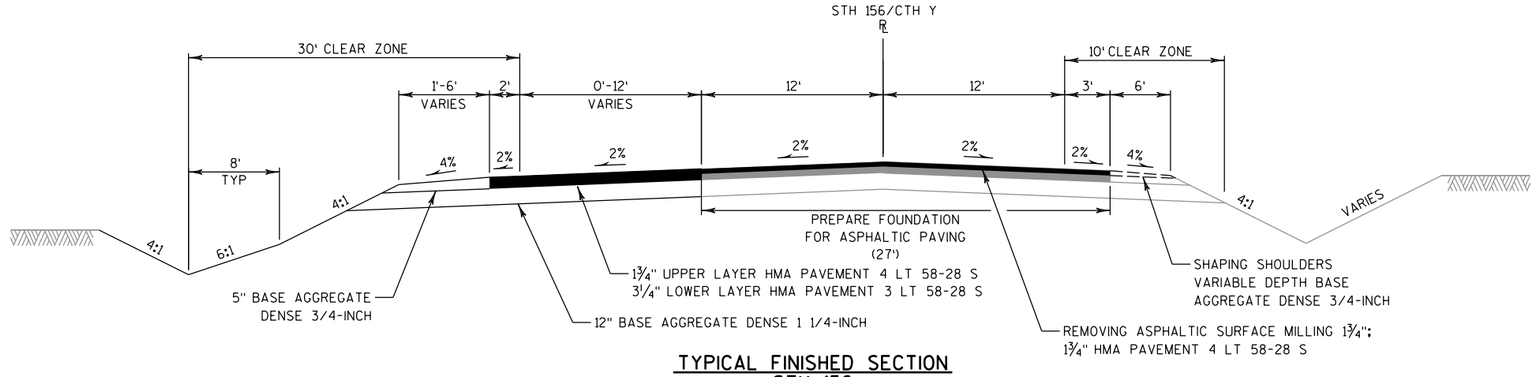
** CROSS SLOPE VARIES THROUGHOUT PROJECT; AVERAGE CROSS SLOPES SHOWN

INSTALL SAFETY EDGE PER SDD

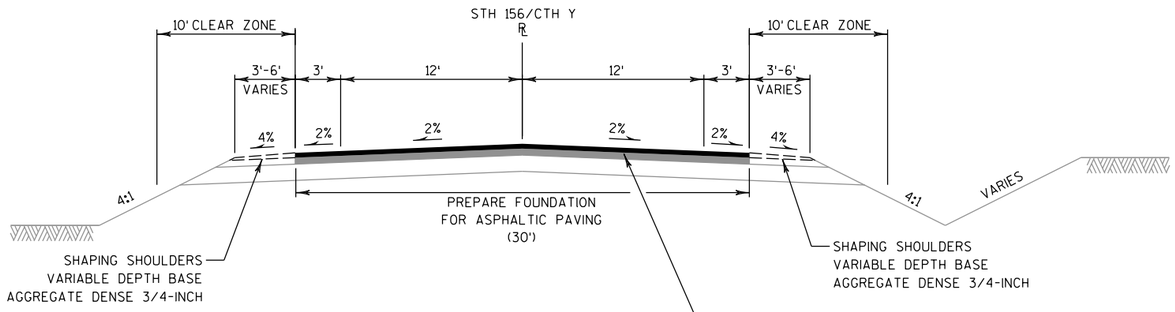
PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	TYPICAL SECTIONS	SHEET	E



TYPICAL FINISHED SECTION
STH 156
STA 4'Y'+89 - STA 8'Y'+50



TYPICAL FINISHED SECTION
STH 156
STA 8'Y'+50 - STA 10'Y'+67



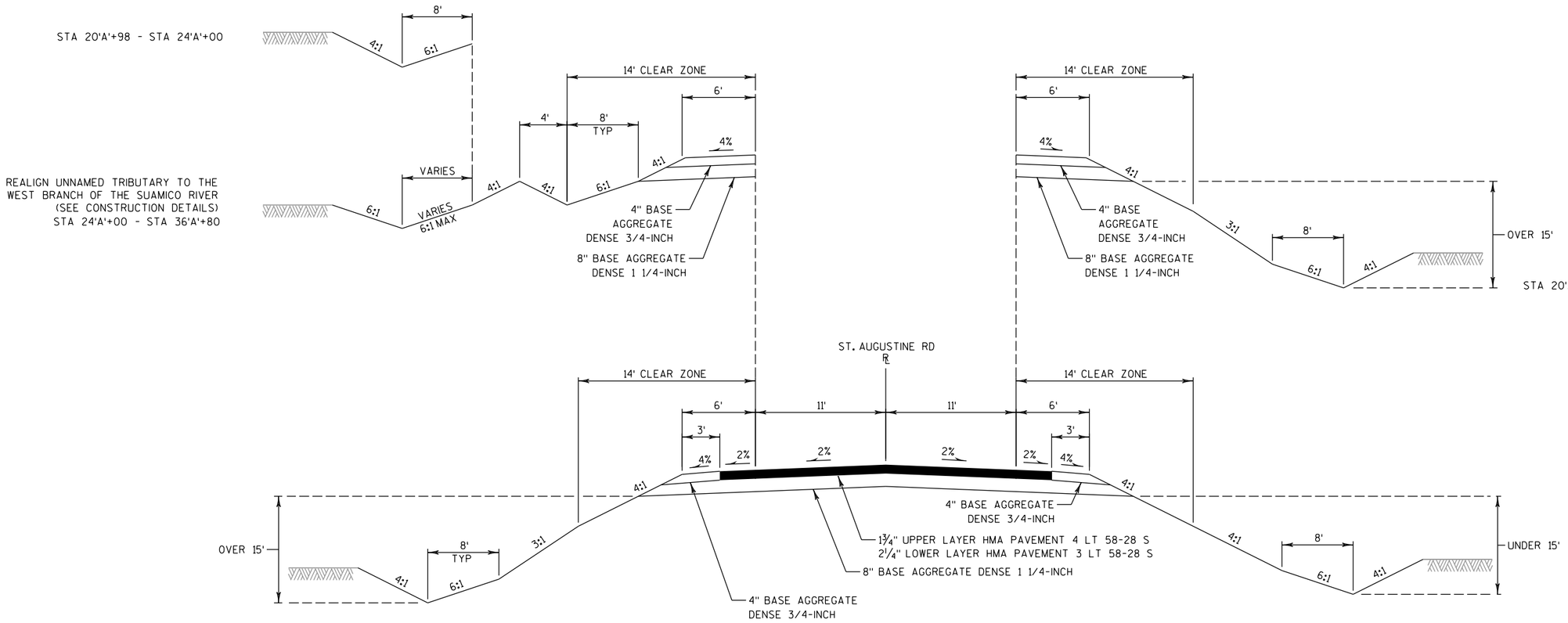
TYPICAL FINISHED SECTION
STH 156
STA 10'Y'+67 - STA 12'Y'+92

NOTE

INSTALL SAFETY EDGE PER SDD

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	TYPICAL SECTIONS	SHEET	E

2



TYPICAL FINISHED SECTION
ST. AUGUSTINE RD

STA 10'A'+24 - STA 18'A'+75 (B-58-129)
(B-58-129) STA 20'A'+92 - STA 37'A'+00

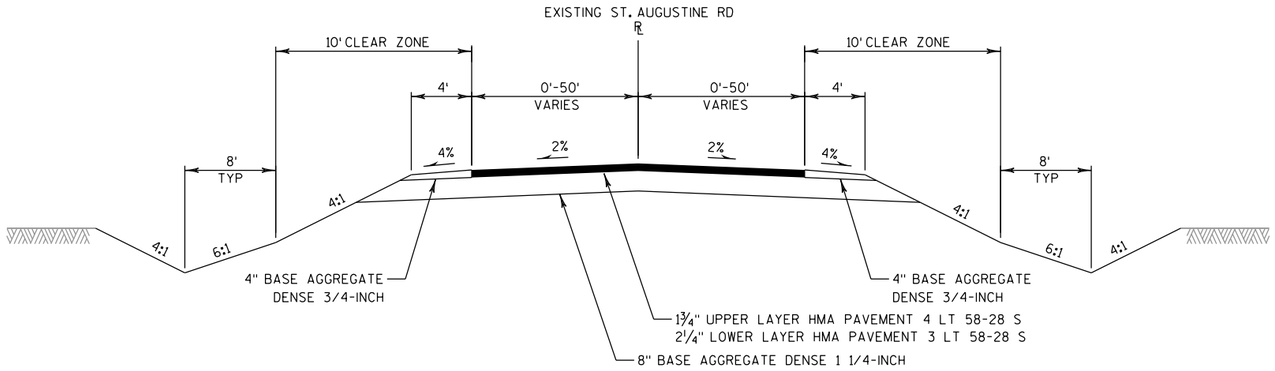
NOTES

SEE CROSS SECTIONS, CONSTRUCTION DETAILS, AND SDDS FOR SLOPES & SHOULDERS AT GUARDRAIL

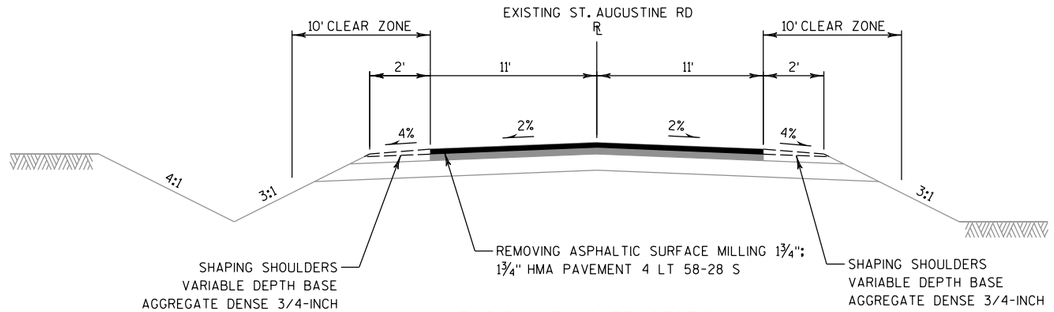
PAVEMENT CROSS SLOPE VARIES DUE TO SUPERELEVATION; SEE ALIGNMENT DETAIL SHEETS FOR SUPERELEVATION DATA

INSTALL SAFETY EDGE PER SDD

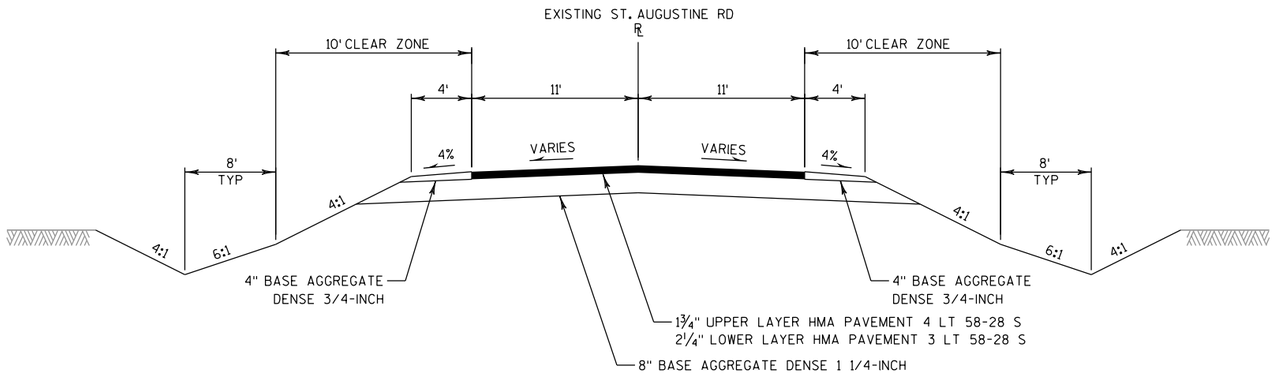
PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	TYPICAL SECTIONS	SHEET	E



TYPICAL FINISHED SECTION
EXISTING ST. AUGUSTINE RD
CUL-DE-SAC
STA 12'S'+50 - STA 13'S'+75



TYPICAL FINISHED SECTION
EXISTING ST. AUGUSTINE RD
STA 13'S'+75 - STA 18'S'+70



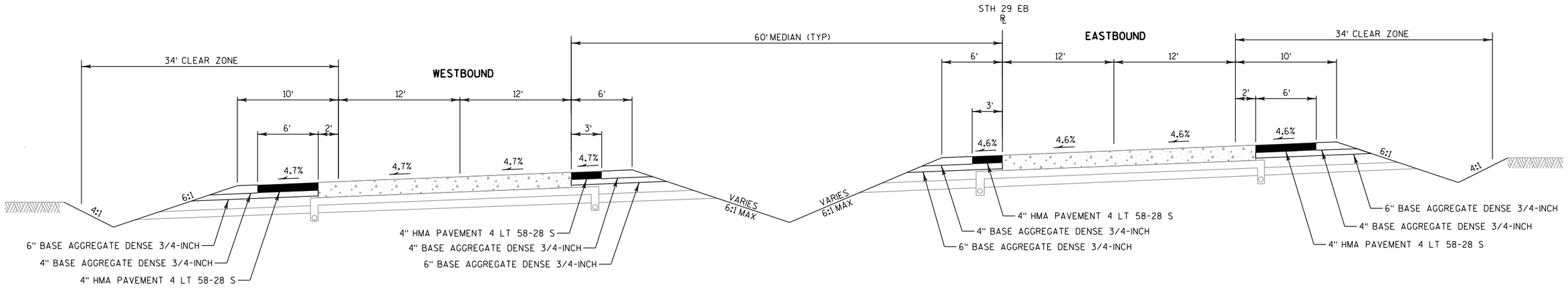
TYPICAL FINISHED SECTION
EXISTING ST. AUGUSTINE RD
STA 18'S'+70 - STA 22'S'+59

NOTE

INSTALL SAFETY EDGE PER SDD

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	TYPICAL SECTIONS	SHEET	E

2



LT DITCH GRADING
STA 327'EB'+31 - STA 327'EB'+63
STA 332'EB'+46 - STA 335'EB'+09

LT SHOULDER RECONSTRUCTION & DITCH GRADING
STA 327'EB'+63 - STA 332'EB'+46

MEDIAN SHOULDER & DITCH RECONSTRUCTION
STA 319'EB'+24 - STA 334'EB'+83 (WESTBOUND)
STA 319'EB'+24 - STA 330'EB'+87 (EASTBOUND)

RT DITCH GRADING
STA 316'EB'+50 - STA 323'EB'+52

RT SHOULDER RECONSTRUCTION & DITCH GRADING
STA 323'EB'+52 - STA 330'EB'+70

TYPICAL FINISHED SECTION
STH 29
STA 316'EB'+50 - STA 335'EB'+09

NOTES

SEE CROSS SECTIONS, CONSTRUCTION DETAILS, AND SDDS FOR SLOPES & SHOULDERS AT GUARDRAIL

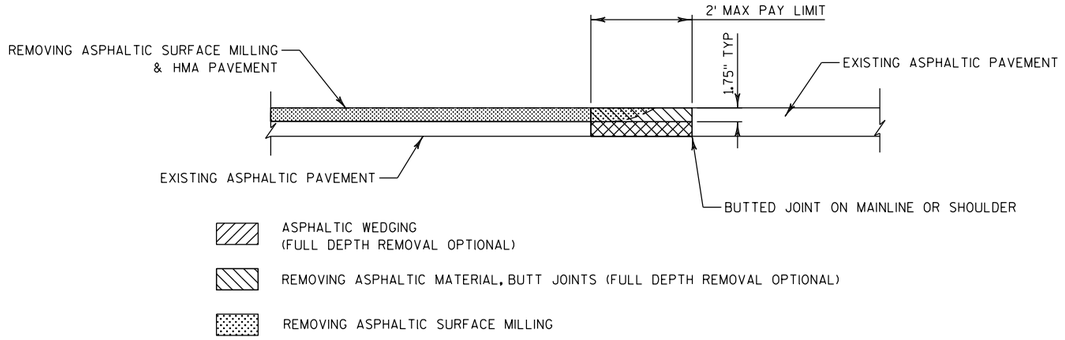
PAVEMENT CROSS SLOPE VARIES DUE TO SUPERELEVATION; SEE ALIGNMENT DETAIL SHEETS FOR SUPERELEVATION DATA

ADJUST/RECONNECT ANY EDGEDRAIN OUTFALLS

INSTALL SAFETY EDGE PER SDD ON INSIDE STH 29 SHOULDERS

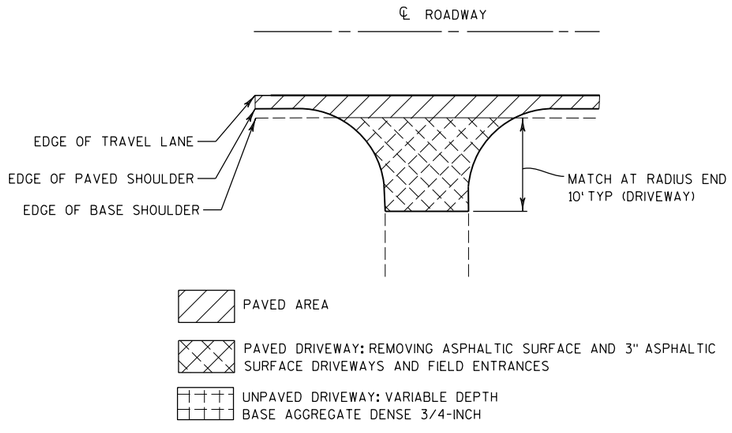
INSTALL ASPHALTIC SHOULDER RUMBLE STRIPS PER SDD

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	TYPICAL SECTIONS	SHEET	E



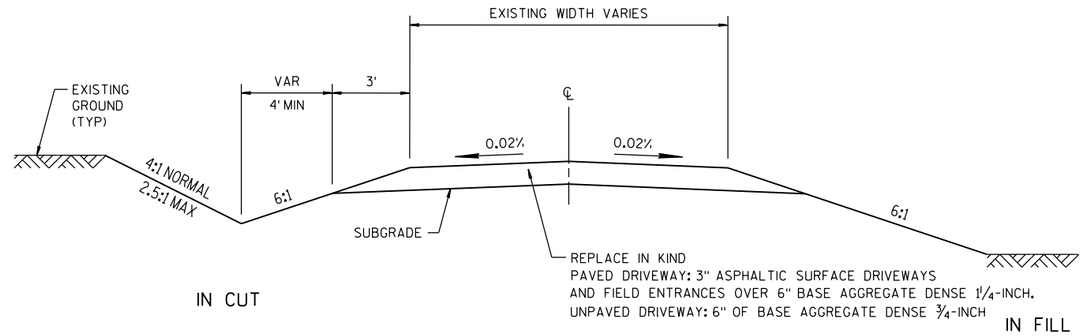
DETAIL OF ASPHALTIC BUTT JOINT

SEE PLAN SHEETS FOR LOCATIONS

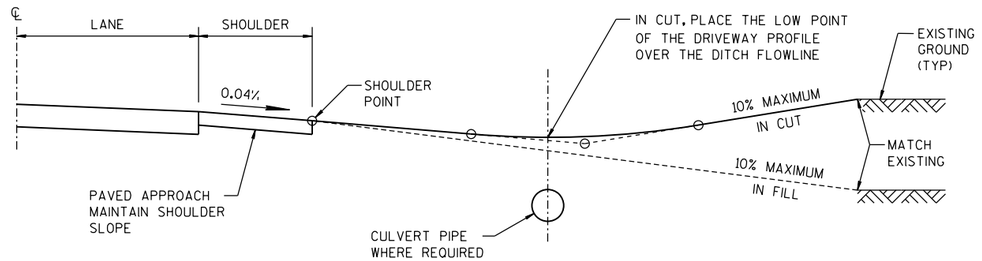


MATCH LIMITS AT DRIVEWAYS ENTRANCES DETAIL

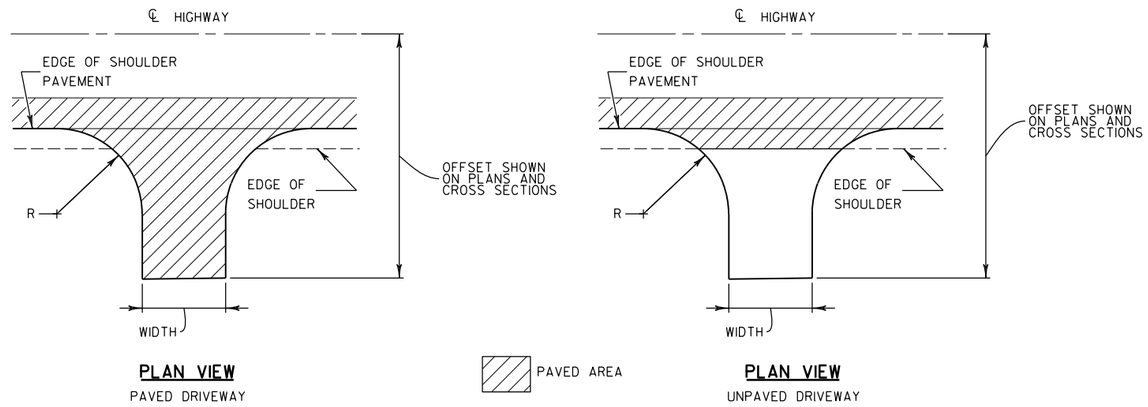
MILL AND HMA OVERLAY AREAS
DRIVEWAYS AND FIELD ENTRANCES



TYPICAL CROSS SECTION

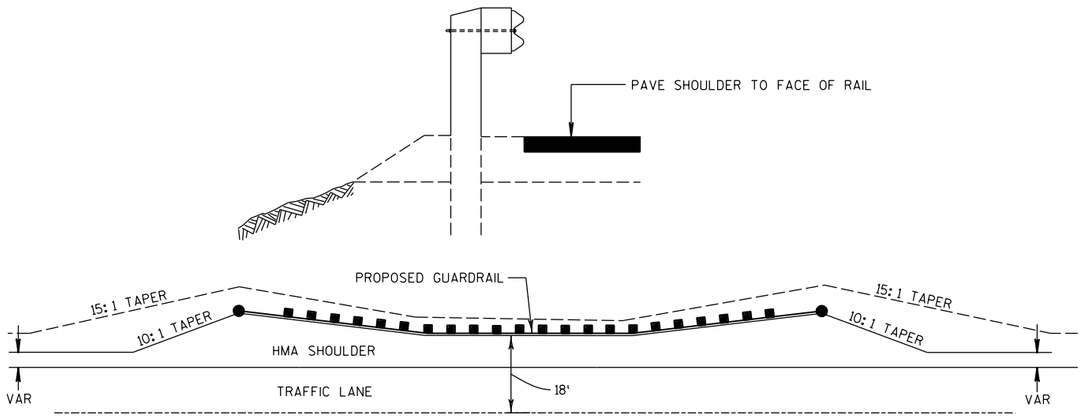


TYPICAL DRIVEWAY PROFILE



DRIVEWAY DETAIL FOR NEW CONSTRUCTION

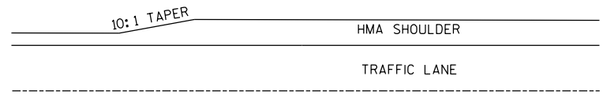
MATCH EXISTING WIDTH EXCEPT WHERE WIDTHS ARE
NOTED ON SECTION 5 PLANS ON REALIGNED ROADWAYS



DETAIL FOR ASPHALTIC SHOULDER AT GUARDRAIL

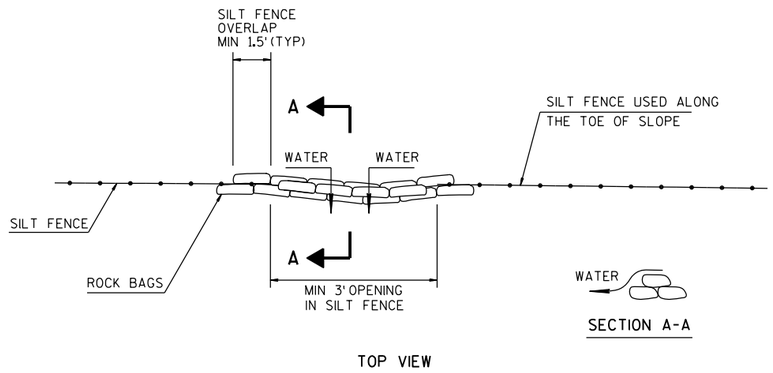
NOTE

SEE GUARDRAIL SDDS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION



PAVED SHOULDER WIDTH TRANSITION DETAIL

WHERE THERE IS A CHANGE IN SHOULDER WIDTH BETWEEN RECONSTRUCTION AND OVERLAY AREAS TAPER SHOULDER PER DETAIL

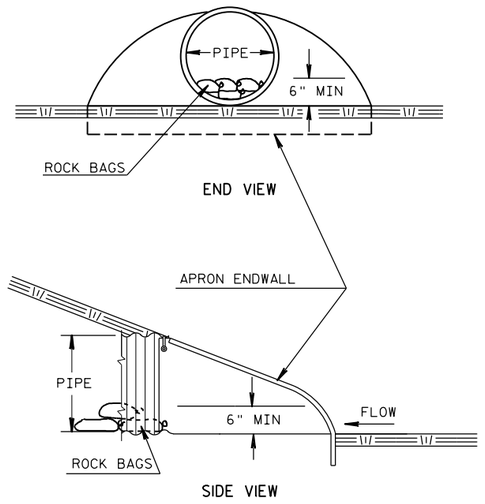


ROCK BAGS USED FOR SILT FENCE RELIEF DETAIL

PAID AS ROCK BAGS

NOTE

SEE EROSION CONTROL PLANS FOR ADDITIONAL INFORMATION



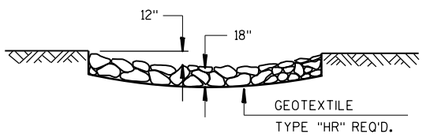
NOTE

SEE EROSION CONTROL PLANS FOR ADDITIONAL INFORMATION

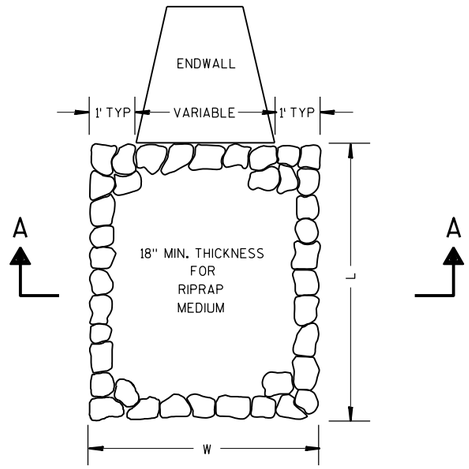
CULVERT PIPE CHECKS

INSTALL ON INLET END

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CONSTRUCTION DETAILS	SHEET	E



SECTION A-A



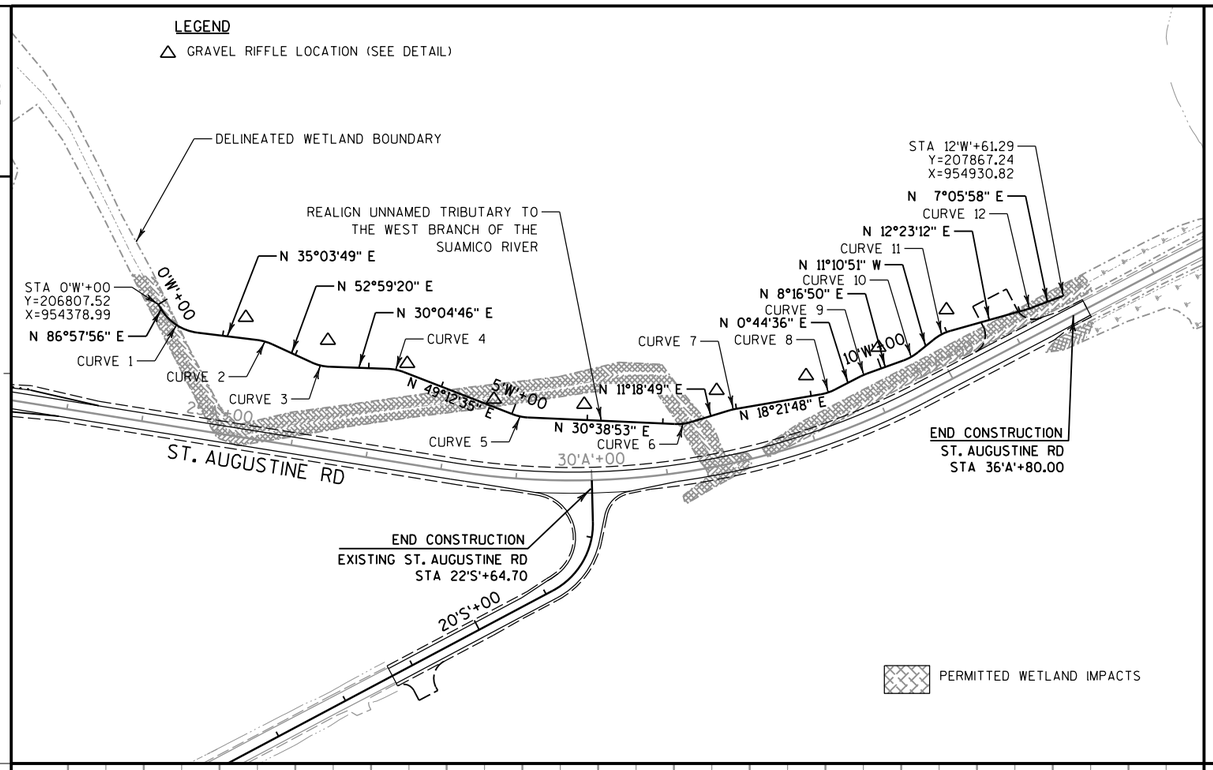
RIPRAP MEDIUM TREATMENT AT CULVERTS

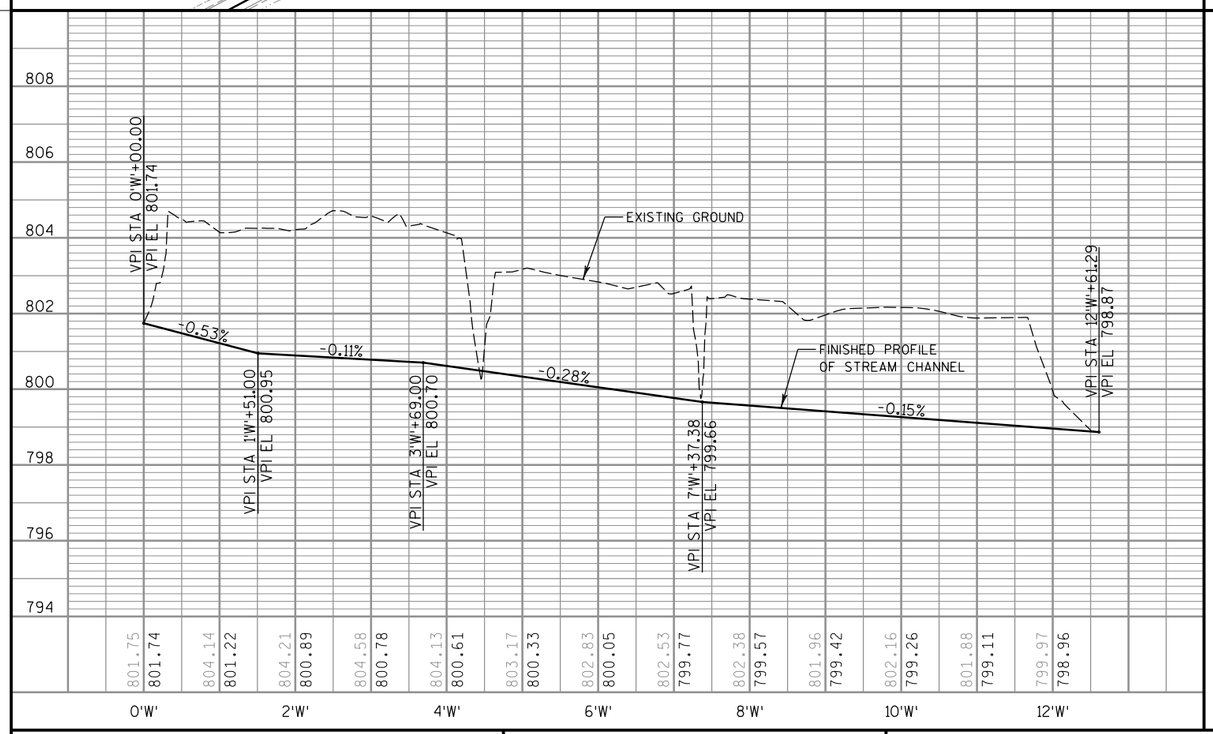
STA 21'A'+22 LT & RT (6'x12')

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 = 110 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 20 ACRES (GRADING AREA)





CURVE 1
PI = STA 0'W'+38.86
Y = 206809.58
X = 954417.79
PC = STA 0'W'+07.22
PT = STA 0'W'+66.11
DELTA = 51°54'06.93" LT.
T = 31.63'
L = 58.88'
R = 65.00'

CURVE 2
PI = STA 1'W'+56.36
Y = 206909.35
X = 954487.81
PC = STA 1'W'+46.11
PT = STA 1'W'+66.44
DELTA = 17°55'31.13" RT.
T = 10.25'
L = 20.34'
R = 65.00'

CURVE 3
PI = STA 2'W'+36.10
Y = 206957.45
X = 954551.62
PC = STA 2'W'+22.92
PT = STA 2'W'+48.91
DELTA = 22°54'34.77" LT.
T = 13.17'
L = 25.99'
R = 65.00'

CURVE 4
PI = STA 3'W'+35.98
Y = 207044.19
X = 954601.86
PC = STA 3'W'+25.03
PT = STA 3'W'+46.73
DELTA = 19°07'49.33" RT.
T = 10.95'
L = 21.70'
R = 65.00'

CURVE 5
PI = STA 5'W'+11.26
Y = 207158.83
X = 954734.72
PC = STA 5'W'+00.64
PT = STA 5'W'+21.70
DELTA = 18°33'42.43" LT.
T = 10.62'
L = 21.06'
R = 65.00'

CURVE 6
PI = STA 7'W'+26.67
Y = 207344.31
X = 954844.62
PC = STA 7'W'+15.60
PT = STA 7'W'+37.54
DELTA = 19°20'03.99" LT.
T = 11.07'
L = 21.93'
R = 65.00'

CURVE 7
PI = STA 7'W'+95.79
Y = 207412.30
X = 954858.22
PC = STA 7'W'+91.79
PT = STA 7'W'+99.79
DELTA = 07°02'59.34" RT.
T = 4.00'
L = 8.00'
R = 65.00'

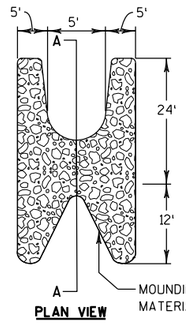
CURVE 8
PI = STA 9'W'+23.19
Y = 207533.21
X = 954898.36
PC = STA 9'W'+13.11
PT = STA 9'W'+33.10
DELTA = 17°37'12.30" LT.
T = 10.07'
L = 19.99'
R = 65.00'

CURVE 9
PI = STA 9'W'+75.45
Y = 207585.63
X = 954899.04
PC = STA 9'W'+71.17
PT = STA 9'W'+79.72
DELTA = 7°32'14.65" RT.
T = 4.28'
L = 8.55'
R = 65.00'

CURVE 10
PI = STA 10'W'+42.51
Y = 207652.00
X = 954908.70
PC = STA 10'W'+31.36
PT = STA 10'W'+53.44
DELTA = 19°27'40.93" LT.
T = 11.15'
L = 22.08'
R = 65.00'

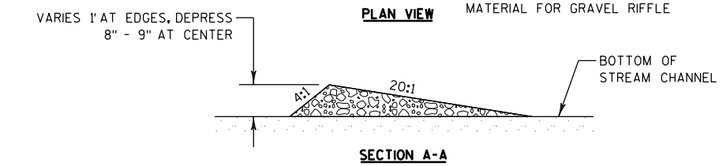
CURVE 11
PI = STA 10'W'+92.70
Y = 207701.45
X = 954898.92
PC = STA 10'W'+79.14
PT = STA 11'W'+05.88
DELTA = 23°34'02.70" RT.
T = 13.56'
L = 26.74'
R = 65.00'

CURVE 12
PI = STA 12'W'+13.45
Y = 207819.77
X = 954924.91
PC = STA 12'W'+10.45
PT = STA 12'W'+16.45
DELTA = 5°17'14.25" LT.
T = 3.00'
L = 6.00'
R = 65.00'

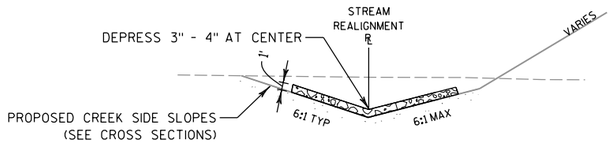


PLAN VIEW

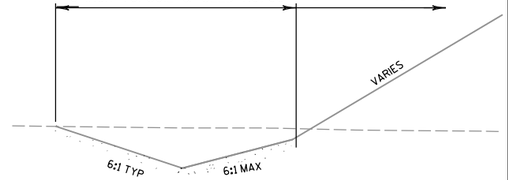
NOTES
THE TYPICAL SECTION IS SHOWN PERPENDICULAR TO THE STREAM ALIGNMENT; THE ROADWAY CROSS SECTIONS ARE CUT PERPENDICULAR TO THE ST. AUGUSTINE RD ROADWAY ALIGNMENT AND THEREFORE SLOPES WILL SHOW DIFFERENTLY. COMPLETE SUPPLEMENTAL STREAM CENTERLINE STAKING AS REQUIRED TO CONSTRUCT WATERWAY CROSS SECTION PER CROSS SECTIONS AND THIS DETAIL.



SECTION A-A



GRAVEL RIFFLE DETAIL
STA 0'W'+00 - STA 12'W'+61



TYPICAL FINISHED SECTION STREAM REALIGNMENT
STA 0'W'+00 - STA 12'W'+61

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CONSTRUCTION DETAIL - STREAM REALIGNMENT	SHEET	E

2

NOTES

TEMPORARY DIVERSION CHANNEL SHOULD BE CAPABLE OF CARRYING THE 2-YEAR FLOOD ELEVATION STREAM FLOW, WITH A FREEBOARD OF 6 TO 12-INCHES DURING THE CONSTRUCTION PERIOD AND MAINTAIN A SUITABLE DEPTH AND VELOCITY TO ALLOW THE PASSAGE OF MIGRATING FISH AND AQUATIC SPECIES. FISH THAT BECOME STRANDED IN DEWATERED AREAS OR TEMPORARY CHANNELS SHOULD BE CAPTURED AND RETURNED TO THE ACTIVE CHANNEL.

THE PROPOSED TEMPORARY DIVERSION CHANNEL IS SHOWN ON THE CROSS SECTIONS.

WORK FOR THE TEMPORARY DIVERSION CHANNEL AT THIS LOCATION WILL BE PAID UNDER ROADWAY BID ITEMS "EXCAVATION COMMON", "RIPRAP LIGHT", AND "POLYETHYLENE SHEETING".

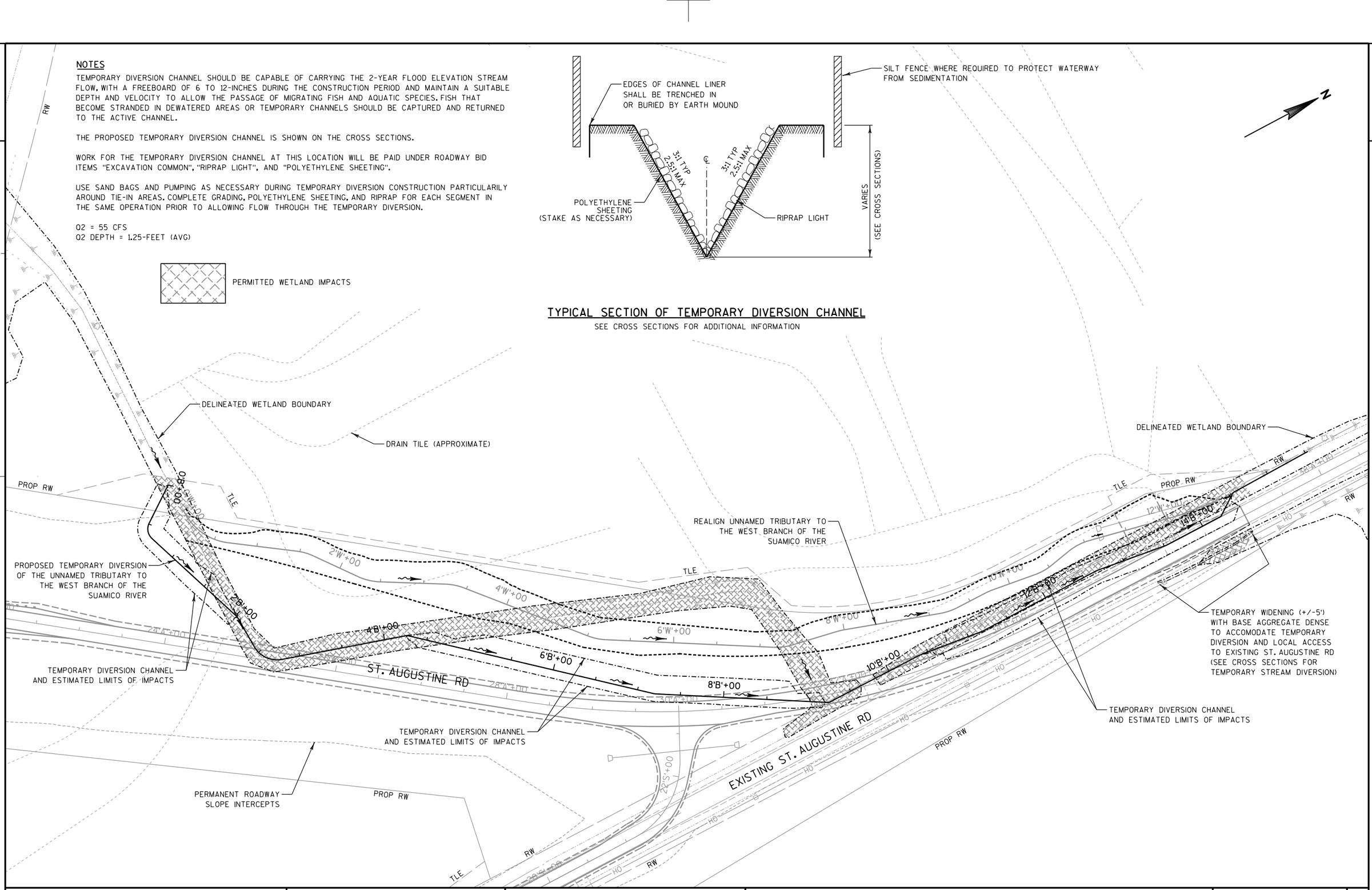
USE SAND BAGS AND PUMPING AS NECESSARY DURING TEMPORARY DIVERSION CONSTRUCTION PARTICULARILY AROUND TIE-IN AREAS. COMPLETE GRADING, POLYETHYLENE SHEETING, AND RIPRAP FOR EACH SEGMENT IN THE SAME OPERATION PRIOR TO ALLOWING FLOW THROUGH THE TEMPORARY DIVERSION.

Q2 = 55 CFS
Q2 DEPTH = 1.25-FEET (AVG)

PERMITTED WETLAND IMPACTS

TYPICAL SECTION OF TEMPORARY DIVERSION CHANNEL

SEE CROSS SECTIONS FOR ADDITIONAL INFORMATION



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CONSTRUCTION DETAIL - TEMP DIVERSION FOR STREAM REALIGNMEN	SHEET	E

2

NOTES

TEMPORARY DIVERSION CHANNEL SHOULD BE CAPABLE OF CARRYING THE Q2 FLOW, WITH A FREEBOARD OF APPROXIMATELY 9 TO 12-INCHES DURING THE CONSTRUCTION PERIOD AND MAINTAIN A SUITABLE DEPTH AND VELOCITY TO ALLOW THE PASSAGE OF MIGRATING FISH AND AQUATIC SPECIES. FISH THAT BECOME STRANDED IN DEWATERED AREAS OR TEMPORARY CHANNELS SHOULD BE CAPTURED AND RETURNED TO THE ACTIVE CHANNEL.

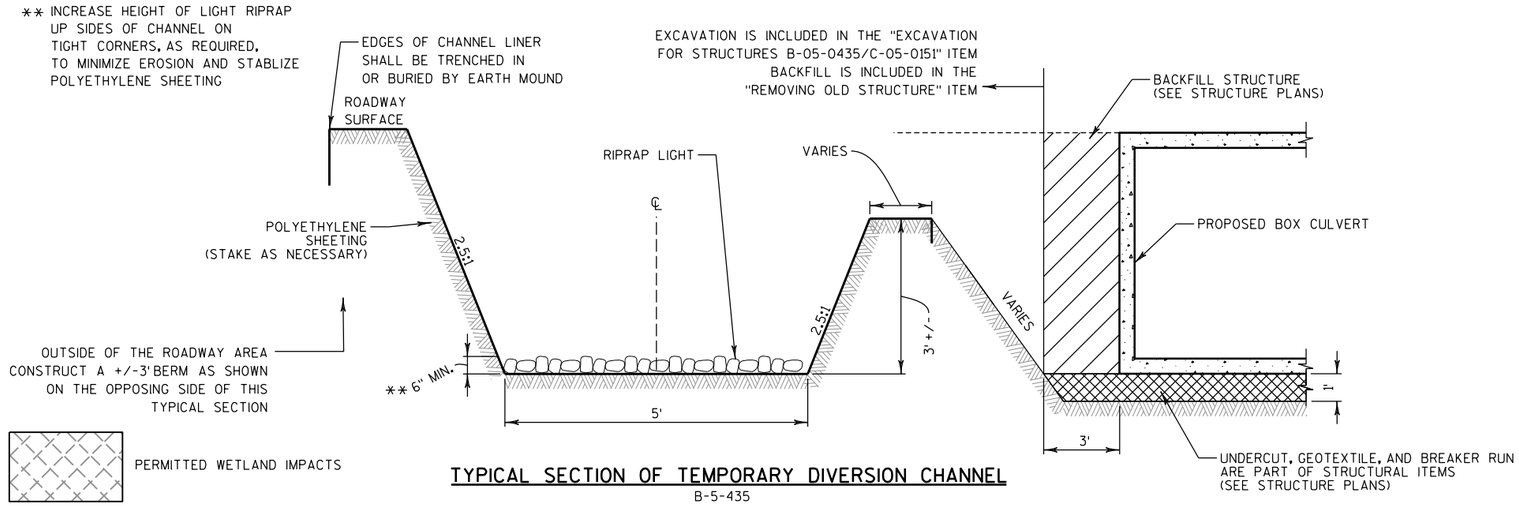
IF PERMANENT RIPRAP CONFLICTS WITH TEMPORARY DIVERSION CHANNEL, PLACE RIPRAP AFTER FLOW HAS BEEN DIVERTED TO NEW CULVERT AND TEMPORARY DIVERSION CHANNEL HAS BEEN BACKFILLED. TEMPORARY SANDBAGS AND STAGING OF RIPRAP PLACEMENT MAY BE REQUIRED.

WORK FOR TEMPORARY DIVERSION CHANNEL AND ANY TEMPORARY SANDBAGS USED AT THE BOX CULVERT OR OTHER DIVERSION TECHNIQUES IMPLEMENTED WILL BE PAID UNDER THE FOLLOWING BID ITEMS:
- ROADWAY BID ITEMS: "RIPRAP LIGHT" AND "POLYETHYLENE SHEETING".
- STRUCTURE BID ITEMS: EXCAVATION OF DIVERSION CHANNEL AND TEMPORARY SANDBAGS OR OTHER DIVERSION TECHNIQUES ARE PAID UNDER "EXCAVATION FOR STRUCTURES CULVERTS B-05-0435/C-05-0151". BACKFILL OF THE DIVERSION CHANNEL IS PAID UNDER STRUCTURAL BID ITEM "REMOVING OLD STRUCTURE". BACKFILL NEXT TO NEW CULVERT IS PAID UNDER "BACKFILL STRUCTURE". SEE STRUCTURE PLANS FOR ADDITIONAL DETAILS.

B-5-435
Q2 = 105 CFS
Q2 ELEVATION = 796.65 AT BOX CULVERT (APPROXIMATE)
Q2 DEPTH = 2-FEET (AVG)
ESTIMATED EXCAVATION VOLUME FOR TEMPORARY DIVERSION CHANNEL = 300 CY (FOR INFORMATION ONLY)

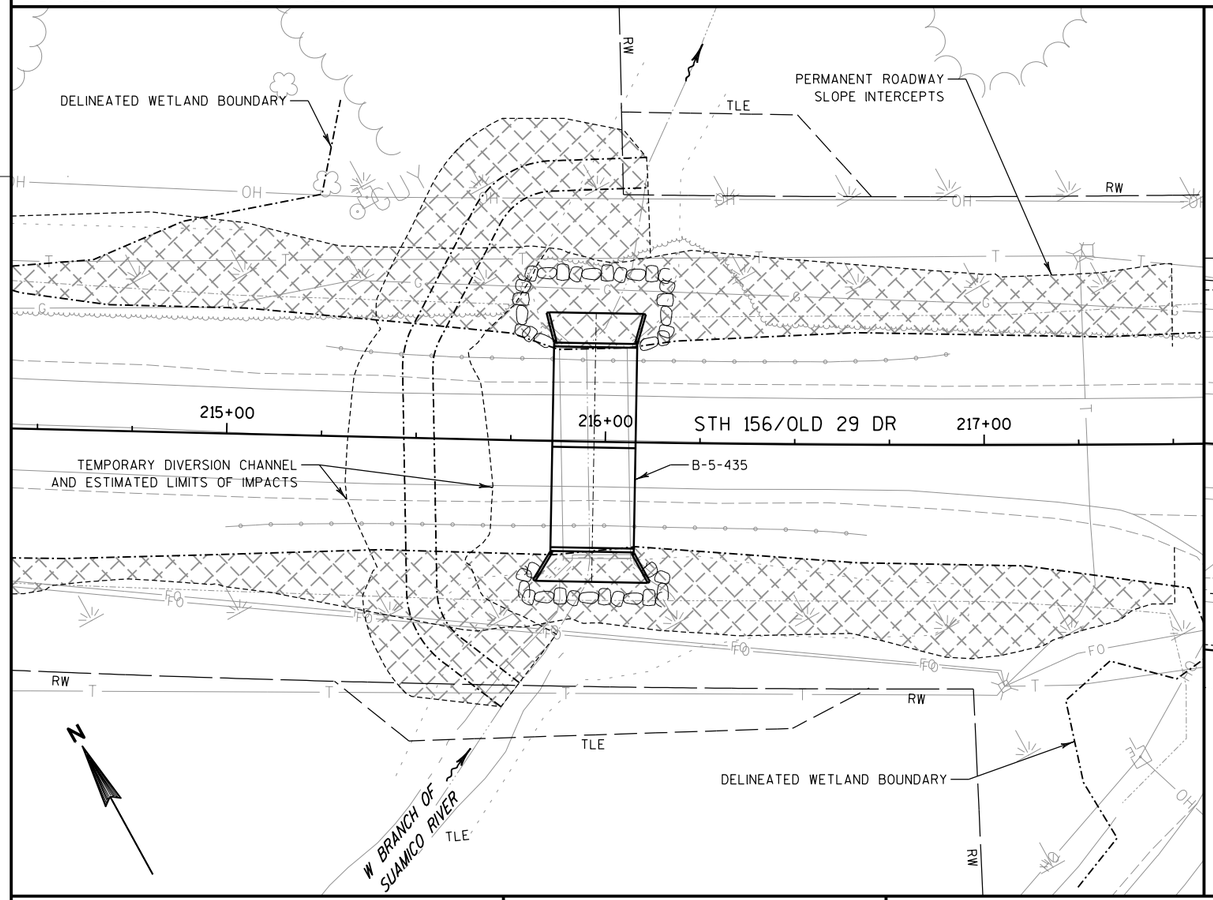
C-5-151
Q2 = 70 CFS
Q2 ELEVATION = 782.28 AT BOX CULVERT (APPROXIMATE)
Q2 DEPTH = 1.6-FEET (AVG)
ESTIMATED EXCAVATION VOLUME FOR TEMPORARY DIVERSION CHANNEL = 400 CY (FOR INFORMATION ONLY)

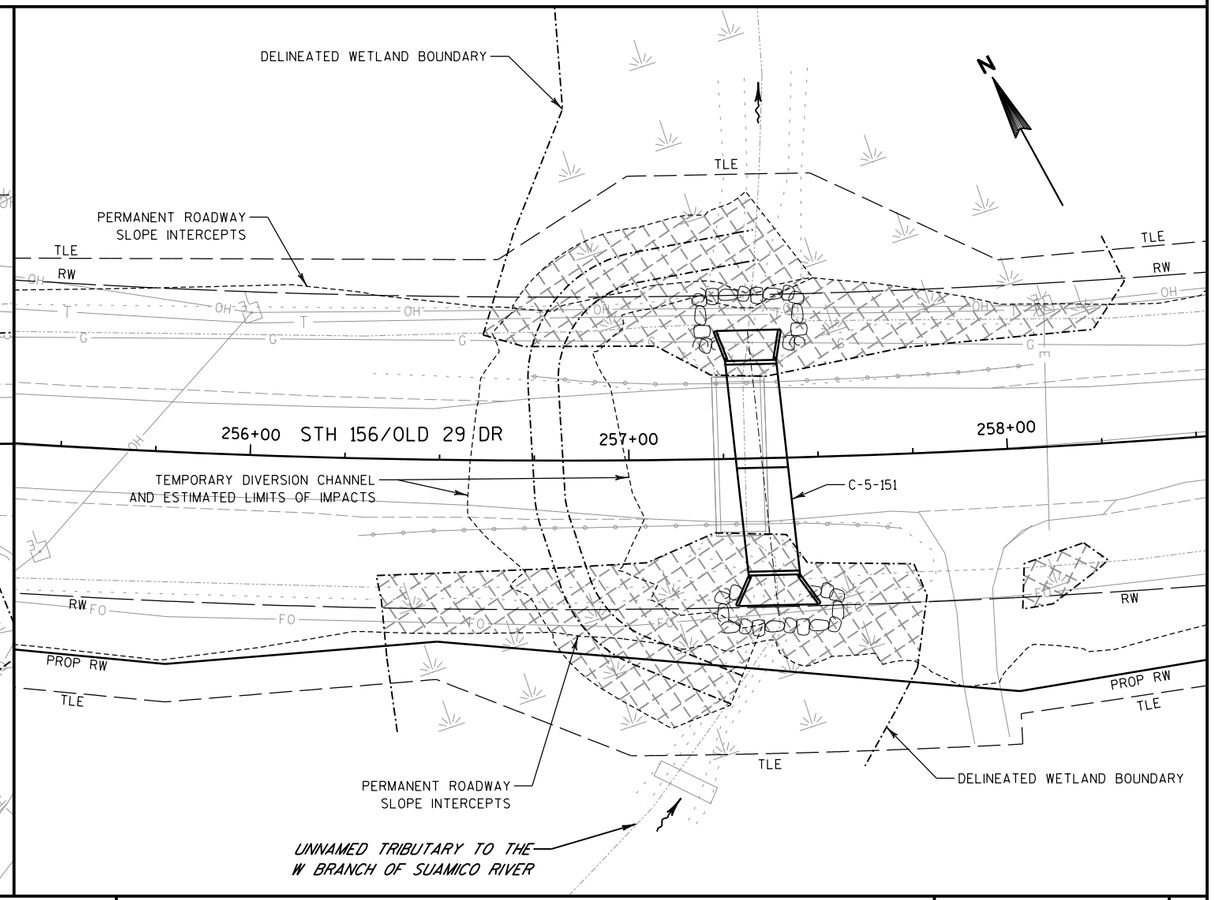
USE AVAILABLE EROSION CONTROL ITEMS IN THE CONTRACT TO IMPLEMENT ANY ADDITIONAL EROSION CONTROL ITEMS NECESSARY TO STABILIZE THE SITE DURING CONSTRUCTION OF THE BOX CULVERT.



TYPICAL SECTION OF TEMPORARY DIVERSION CHANNEL

B-5-435
C-5-151





PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CONSTRUCTION DETAIL-TEMPORARY DIVERSION (B-5-435 & C-5-151	SHEET	E

2

DATA TABLE

POINT NO.	STATION	OFFSET	RADIUS
1	10'A'+64.04	55.00' LT	40' R
2	10'A'+83.94	75.00' RT	60' R

LEGEND

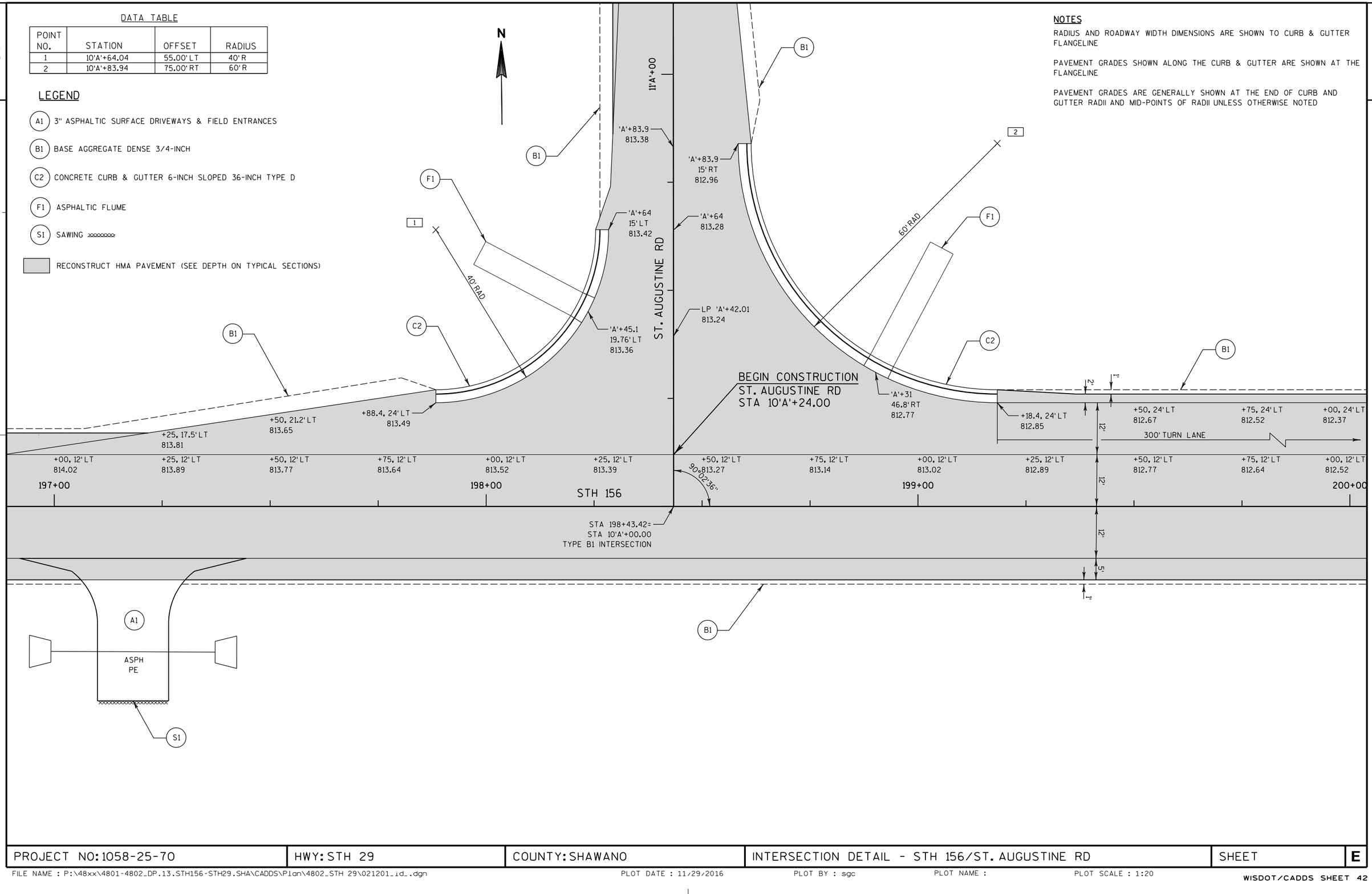
- (A1) 3" ASPHALTIC SURFACE DRIVEWAYS & FIELD ENTRANCES
- (B1) BASE AGGREGATE DENSE 3/4-INCH
- (C2) CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- (F1) ASPHALTIC FLUME
- (S1) SAWING xxxxxxx
- RECONSTRUCT HMA PAVEMENT (SEE DEPTH ON TYPICAL SECTIONS)

NOTES

RADIUS AND ROADWAY WIDTH DIMENSIONS ARE SHOWN TO CURB & GUTTER FLANGELINE

PAVEMENT GRADES SHOWN ALONG THE CURB & GUTTER ARE SHOWN AT THE FLANGELINE

PAVEMENT GRADES ARE GENERALLY SHOWN AT THE END OF CURB AND GUTTER RADII AND MID-POINTS OF RADII UNLESS OTHERWISE NOTED



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	INTERSECTION DETAIL - STH 156/ST. AUGUSTINE RD	SHEET	E

LEGEND

- (B1) BASE AGGREGATE DENSE 3/4-INCH
- (C1) CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T (SEE DETAIL B)
- (C2) CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- (F1) ASPHALTIC FLUME
- (H1) REMOVING ASPHALTIC SURFACE MILLING 1¾"; 1¾" HMA PAVEMENT
- (M) CONCRETE MEDIAN SLOPED NOSE (TYPE 2)
- (S1) SAWING
- RECONSTRUCT HMA PAVEMENT (SEE DEPTH ON TYPICAL SECTIONS)
- COLORING CONCRETE WISDOT RED CONCRETE TRUCK APRON 12-INCH

N

DATA TABLE

POINT NO.	STATION	OFFSET	RADIUS
1	279+03.50	97.00' LT	77' R
2	278+80.56	143.58' LT	100' R
3	279+38.59	64.43' LT	25' R
4	279+99.78	46.29' LT	4.75' R
5	280+08.14	22.64' LT	4.75' R
6	279+87.18	21.56' LT	4.75' R
7	280+92.45	64.97' LT	40' R
8	281+13.02	64.00' RT	40' R
9	279+68.57	94.00' RT	70' R
10	280+67.39	30.59' LT	4' R
11	280+70.42	20.08' LT	4' R
12	282+07.07	20.08' LT	4' R

NOTES

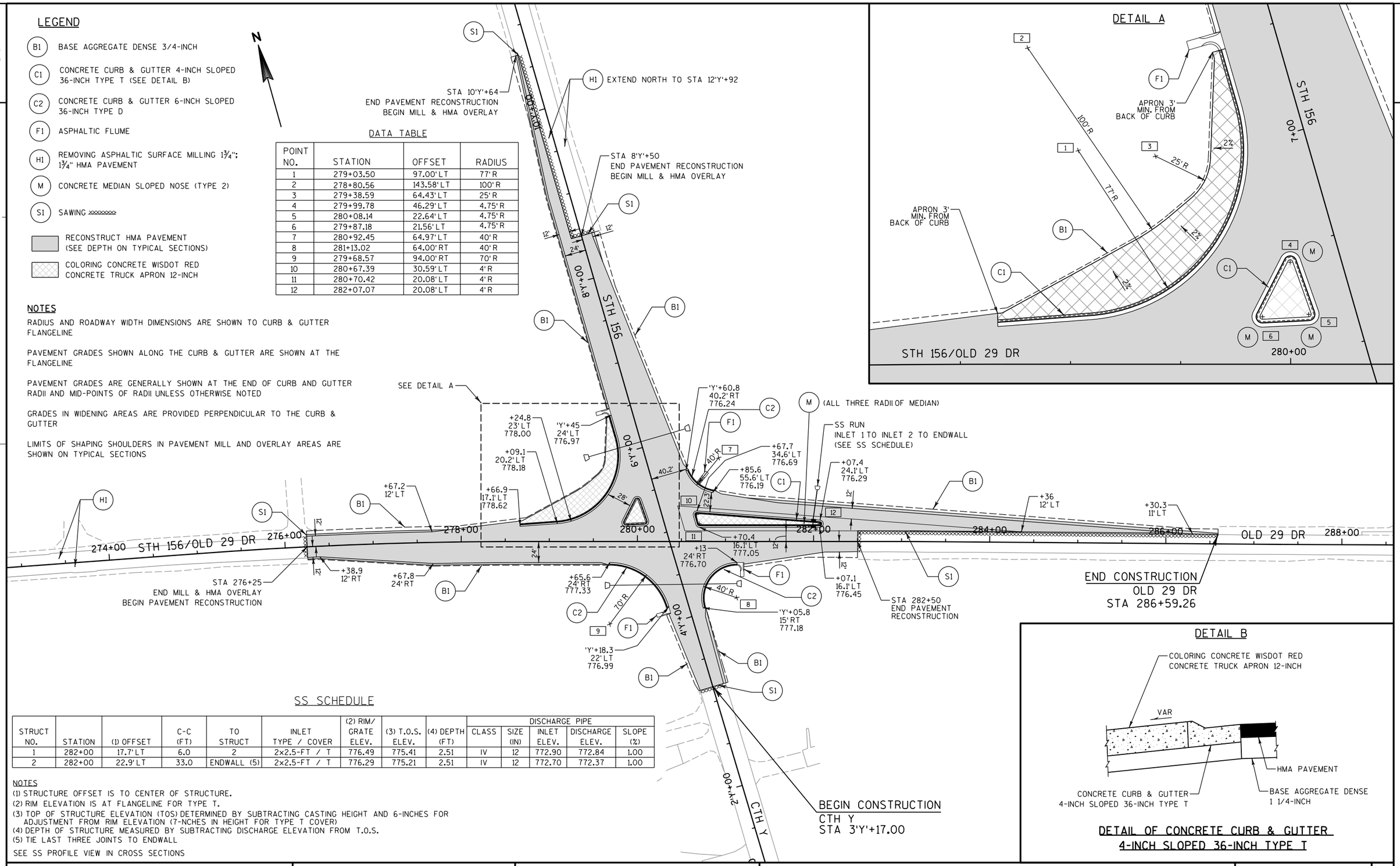
RADIUS AND ROADWAY WIDTH DIMENSIONS ARE SHOWN TO CURB & GUTTER FLANGELINE

PAVEMENT GRADES SHOWN ALONG THE CURB & GUTTER ARE SHOWN AT THE FLANGELINE

PAVEMENT GRADES ARE GENERALLY SHOWN AT THE END OF CURB AND GUTTER RADII AND MID-POINTS OF RADII UNLESS OTHERWISE NOTED

GRADES IN WIDENING AREAS ARE PROVIDED PERPENDICULAR TO THE CURB & GUTTER

LIMITS OF SHAPING SHOULDERS IN PAVEMENT MILL AND OVERLAY AREAS ARE SHOWN ON TYPICAL SECTIONS



DETAIL A

SS SCHEDULE

STRUCT NO.	STATION	(1) OFFSET	C-C (FT)	TO STRUCT	INLET TYPE / COVER	(2) RIM/ GRATE ELEV.	(3) T.O.S. ELEV.	(4) DEPTH (FT)	DISCHARGE PIPE CLASS	SIZE (IN)	INLET ELEV.	DISCHARGE ELEV.	SLOPE (%)
1	282+00	17.7' LT	6.0	2	2x2.5-FT / T	776.49	775.41	2.51	IV	12	772.90	772.84	1.00
2	282+00	22.9' LT	33.0	ENDWALL (5)	2x2.5-FT / T	776.29	775.21	2.51	IV	12	772.70	772.37	1.00

NOTES
(1) STRUCTURE OFFSET IS TO CENTER OF STRUCTURE.
(2) RIM ELEVATION IS AT FLANGELINE FOR TYPE T.
(3) TOP OF STRUCTURE ELEVATION (TOS) DETERMINED BY SUBTRACTING CASTING HEIGHT AND 6-INCHES FOR ADJUSTMENT FROM RIM ELEVATION (7-NCHES IN HEIGHT FOR TYPE T COVER)
(4) DEPTH OF STRUCTURE MEASURED BY SUBTRACTING DISCHARGE ELEVATION FROM T.O.S.
(5) TIE LAST THREE JOINTS TO ENDWALL

SEE SS PROFILE VIEW IN CROSS SECTIONS

DETAIL B

DETAIL OF CONCRETE CURB & GUTTER
4-INCH SLOPED 36-INCH TYPE T

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	INTERSECTION DETAIL - STH 156/OLD 29 DR/CTH Y	SHEET E

DATA TABLE

POINT NO.	STATION	OFFSET	RADIUS
1	13'S'+00.00	0.00'LT	50'R
2	13'S'+61.25	31.19'RT	20'R
3	13'S'+62.93	33.85'LT	20'R

NOTES

LIMITS OF SHAPING SHOULDERS ARE SHOWN ON TYPICAL SECTIONS

ROADWAY REMOVALS ARE SHOWN ON CROSS SECTIONS

LEGEND

- (B1) BASE AGGREGATE DENSE 3/4-INCH
- (H1) REMOVING ASPHALTIC SURFACE MILLING 1¾"; 1¾" HMA PAVEMENT
- (S1) SAWING
- RECONSTRUCT HMA PAVEMENT (SEE DEPTH ON TYPICAL SECTIONS)
- REMOVING ROADWAY

MATCHLINE SEE STH 29 CROSS SECTIONS

END CONSTRUCTION
STH 29, RT
BEGIN CONSTRUCTION
EXISTING ST. AUGUSTINE RD
STA 11'S'+38.75

12'S'+00

+50
℄
804.79

+75
℄
804.99

13'S'+00

+00
℄
805.19

1

50'RAD

EXISTING ST. AUGUSTINE RD

+25
℄
805.40

+50
℄
805.60

VARIES

VARIES

14'S'+00

+00
50'LT
804.19

B1

+44.3
24.8'LT
805.06

R 20'

3

S1

H1

H1

+44.3
21.7'RT
805.12

R 20'

2

STA 13'S'+75
END PAVEMENT RECONSTRUCTION
BEGIN MILL & HMA OVERLAY

+00
50'RT
804.19

4'

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	INTERSECTION DETAIL - EXISTING ST. AUGUSTINE RD CUL-DE-SAC	SHEET	E

LEGEND

---- = MATCHLINE

N

STH 156

10'A'+00

15'A'+00

200+00

15'S'+00

205+00

5'S'+00

EXSTING STH 156

5'T+00

STH 29 EB

STH 29 WB

10'S'+00

320EB+00

325EB+00

330EB+00

335EB+00

20'A'+00

ST. AUGUSTINE RD

25'A'+00

30'A'+00

35'A'+00

15'S'+00 EXISTING ST. AUGUSTINE RD 20'S'+00

ST. AUGUSTINE RD

EXISTING OLD 29 DR

210+00

10'T+00

STH 156/OLD 29 DR

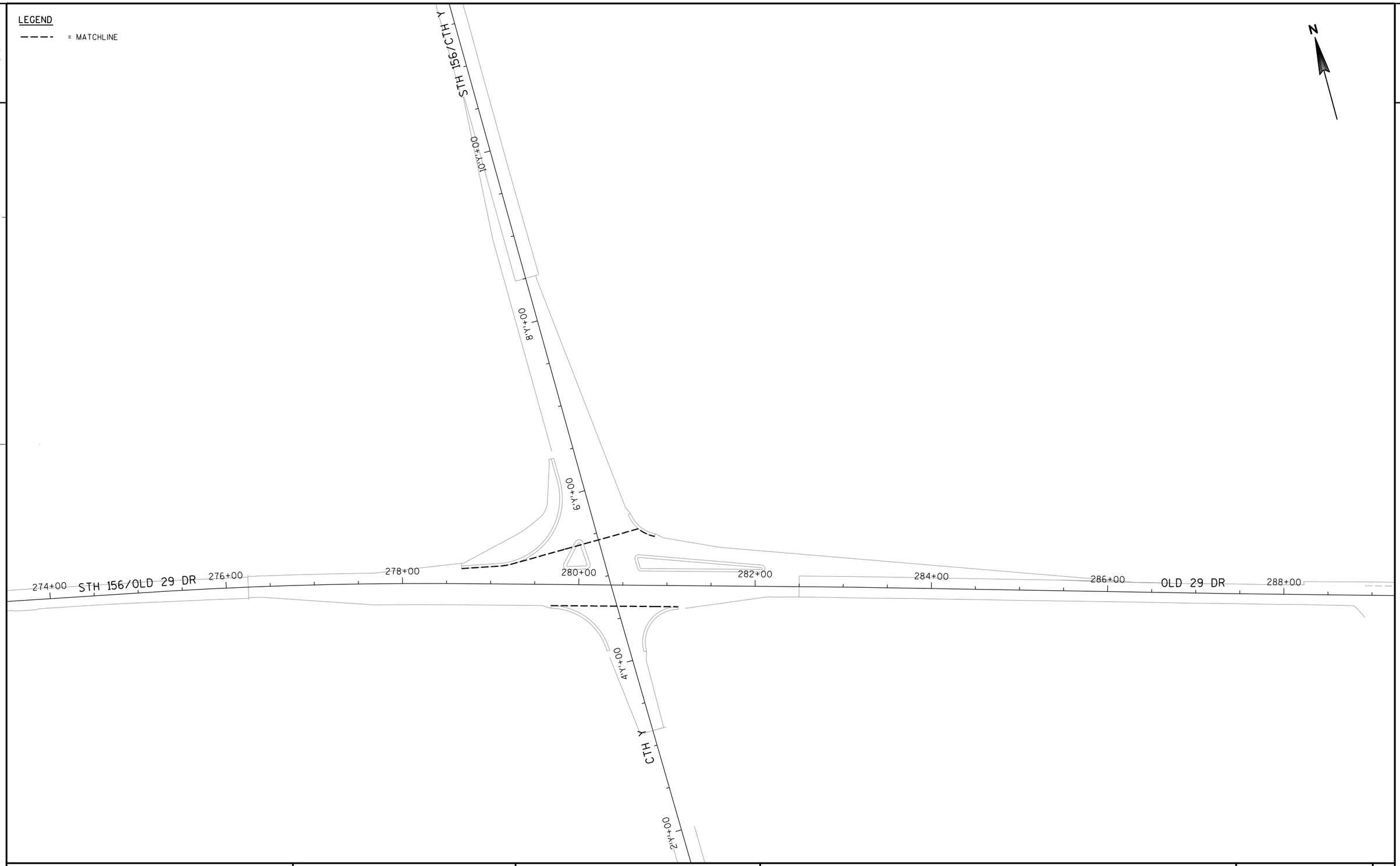
215+00

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTION MATCHLINE DETAIL	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\021701_xm.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:200

LEGEND

---- = MATCHLINE



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTION MATCHLINE DETAIL - CTH Y	SHEET	E

2

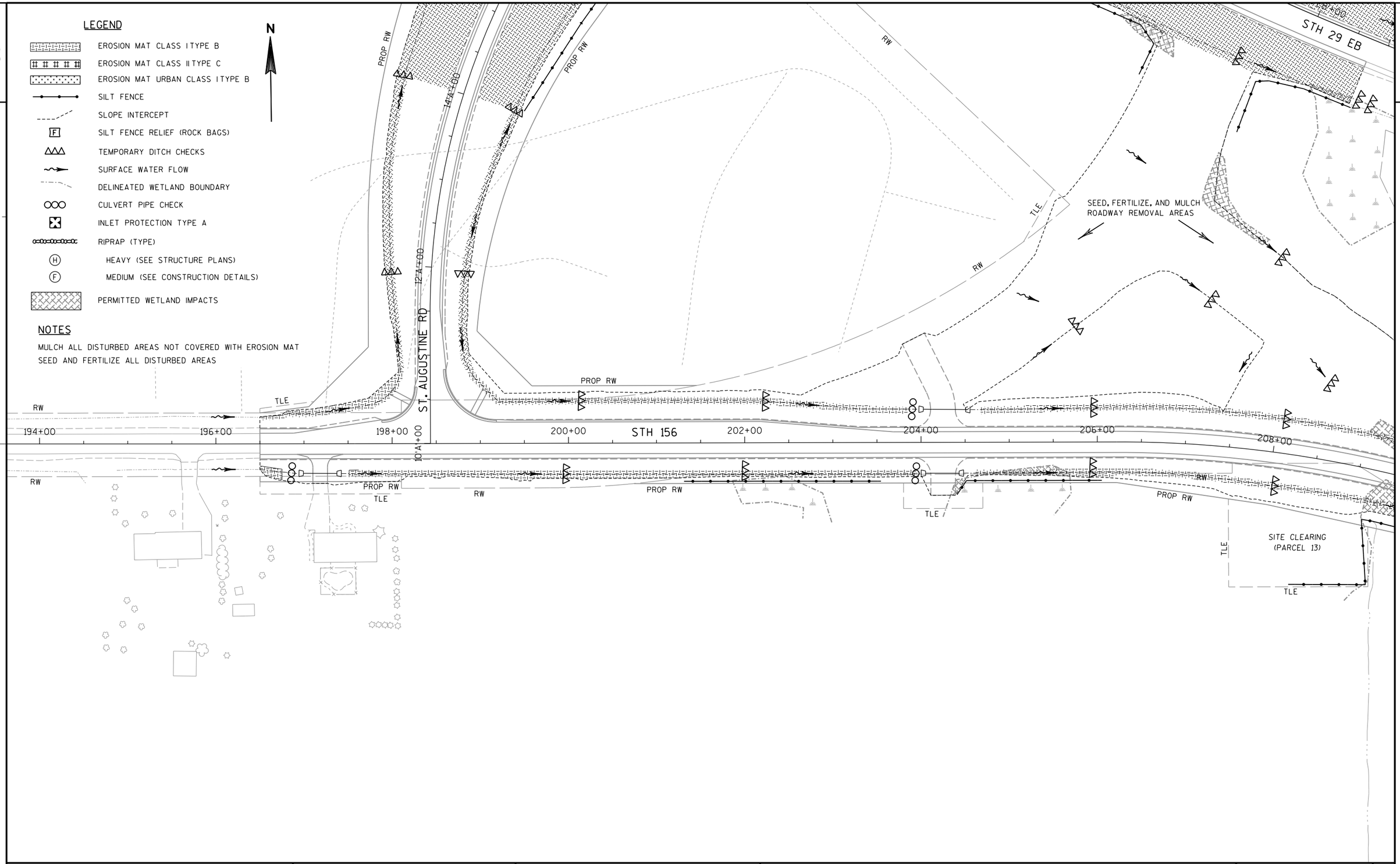
LEGEND

- EROSION MAT CLASS I TYPE B
- EROSION MAT CLASS II TYPE C
- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- SLOPE INTERCEPT
- [F] SILT FENCE RELIEF (ROCK BAGS)
- TEMPORARY DITCH CHECKS
- SURFACE WATER FLOW
- DELINEATED WETLAND BOUNDARY
- CULVERT PIPE CHECK
- INLET PROTECTION TYPE A
- RIPRAP (TYPE)
- (H) HEAVY (SEE STRUCTURE PLANS)
- (F) MEDIUM (SEE CONSTRUCTION DETAILS)
- PERMITTED WETLAND IMPACTS

N

NOTES

MULCH ALL DISTURBED AREAS NOT COVERED WITH EROSION MAT
SEED AND FERTILIZE ALL DISTURBED AREAS



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PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	EROSION CONTROL - STH 156	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\022001_ec.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:100

2

STH 29 EB

234+00

RW

WEST BRANCH OF THE SUAMICO RIVER

N

SEPTIC

TANKS

SEPTIC

TLE

210+00

212+00

214+00

216+00

218+00

STH 156

220+00

222+00

224+00

PROP RW

TLE

TLE

TLE

ANGLE DR

WEST BRANCH OF THE SUAMICO RIVER

LEGEND

- EROSION MAT CLASS I TYPE B
- EROSION MAT CLASS II TYPE C
- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- SLOPE INTERCEPT
- SILT FENCE RELIEF (ROCK BAGS)
- TEMPORARY DITCH CHECKS
- SURFACE WATER FLOW
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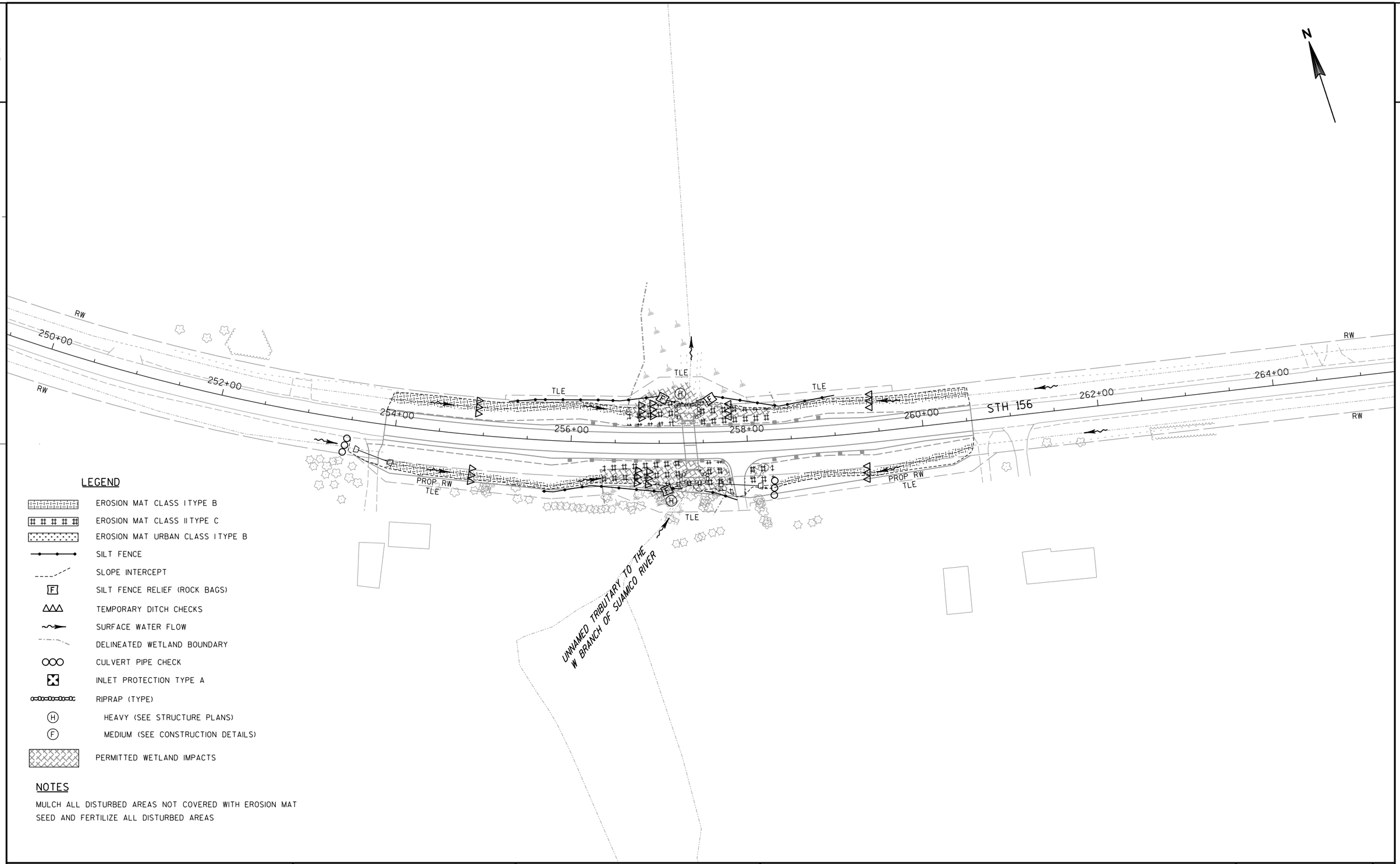
- CULVERT PIPE CHECK
- INLET PROTECTION TYPE A
- RIPRAP (TYPE)
- (H) HEAVY (SEE STRUCTURE PLANS)
- (F) MEDIUM (SEE CONSTRUCTION DETAILS)
- PERMITTED WETLAND IMPACTS

NOTES

MULCH ALL DISTURBED AREAS NOT COVERED WITH EROSION MAT
SEED AND FERTILIZE ALL DISTURBED AREAS

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	EROSION CONTROL - STH 156/OLD 29 DR	SHEET	E

2



LEGEND

- EROSION MAT CLASS I TYPE B
- EROSION MAT CLASS II TYPE C
- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- SLOPE INTERCEPT
- (F) SILT FENCE RELIEF (ROCK BAGS)
- TEMPORARY DITCH CHECKS
- SURFACE WATER FLOW
- DELINEATED WETLAND BOUNDARY
- CULVERT PIPE CHECK
- INLET PROTECTION TYPE A
- RIPRAP (TYPE)
- (H) HEAVY (SEE STRUCTURE PLANS)
- (F) MEDIUM (SEE CONSTRUCTION DETAILS)
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NOTES

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SEED AND FERTILIZE ALL DISTURBED AREAS

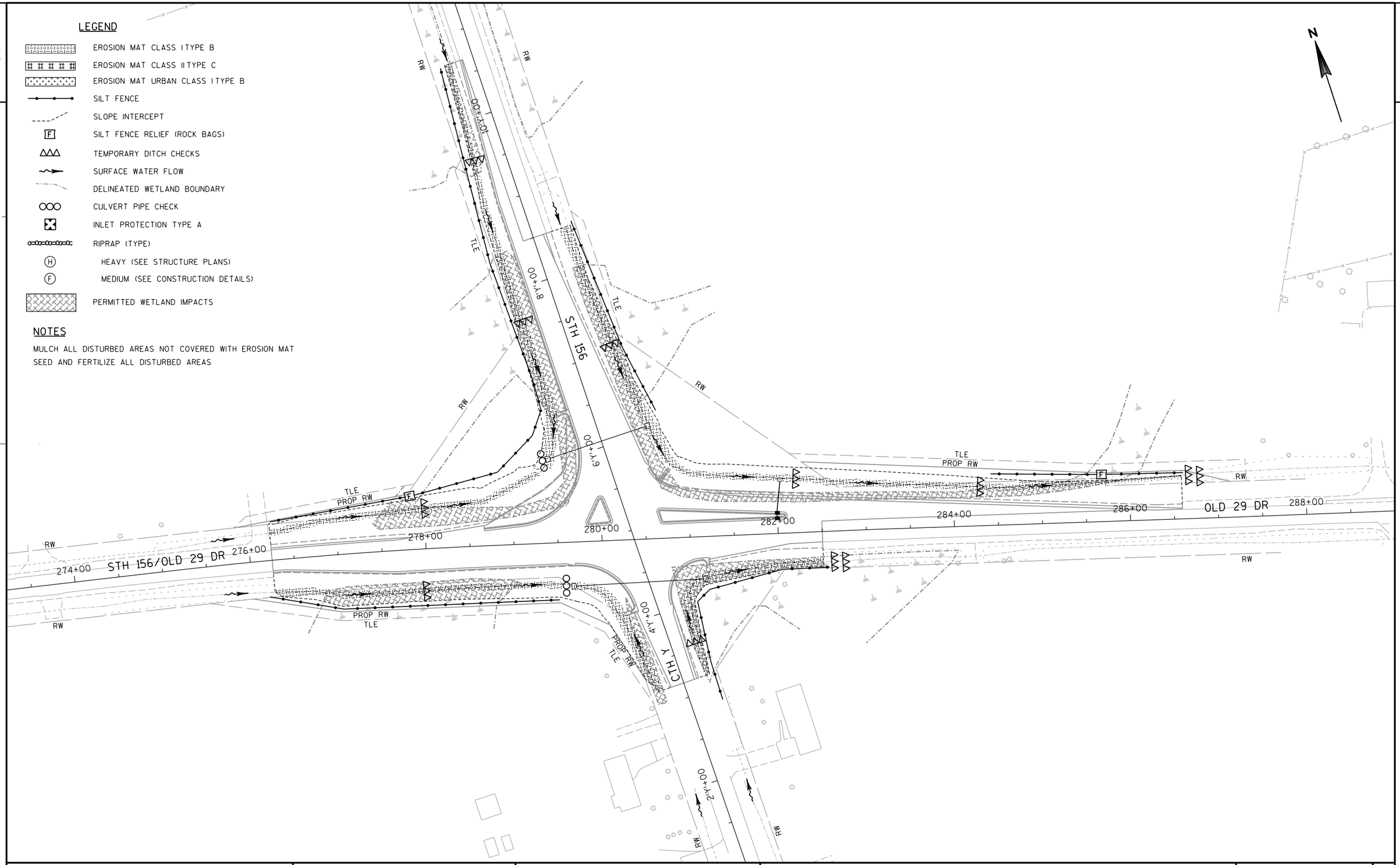
PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	EROSION CONTROL - STH 156/OLD 29 DR	SHEET	E

LEGEND

- EROSION MAT CLASS I TYPE B
- EROSION MAT CLASS II TYPE C
- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- SLOPE INTERCEPT
- (F) SILT FENCE RELIEF (ROCK BAGS)
- TEMPORARY DITCH CHECKS
- SURFACE WATER FLOW
- DELINEATED WETLAND BOUNDARY
- CULVERT PIPE CHECK
- INLET PROTECTION TYPE A
- RIPRAP (TYPE)
  - (H) HEAVY (SEE STRUCTURE PLANS)
  - (F) MEDIUM (SEE CONSTRUCTION DETAILS)
- PERMITTED WETLAND IMPACTS

NOTES

MULCH ALL DISTURBED AREAS NOT COVERED WITH EROSION MAT
SEED AND FERTILIZE ALL DISTURBED AREAS



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	EROSION CONTROL - STH 156/OLD 29 DR/CTH Y	SHEET	E

LEGEND

- EROSION MAT CLASS I TYPE B
- EROSION MAT CLASS II TYPE C
- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- SLOPE INTERCEPT
- (F) SILT FENCE RELIEF (ROCK BAGS)
- TEMPORARY DITCH CHECKS
- SURFACE WATER FLOW
- DELINEATED WETLAND BOUNDARY
- CULVERT PIPE CHECK
- INLET PROTECTION TYPE A
- RIPRAP (TYPE)
  - (H) HEAVY (SEE STRUCTURE PLANS)
  - (F) MEDIUM (SEE CONSTRUCTION DETAILS)
- PERMITTED WETLAND IMPACTS

NOTES

MULCH ALL DISTURBED AREAS NOT COVERED WITH EROSION MAT
SEED AND FERTILIZE ALL DISTURBED AREAS

** NON-NETTED EROSION MAT (CLASS II TYPE C OR URBAN CLASS I TYPE B) MAY BE USED AT TIE-IN LOCATIONS IF REQUIRED; OTHERWISE DO NOT PLACE EROSION MAT IN THE RE-ALIGNED WATERWAY AND RESTORE WITH TOPSOIL, SEED, AND GRAVEL RIFFLES PER CONSTRUCTION DETAIL UNLESS OTHERWISE ALLOWED BY THE ENGINEER.

SEE CONSTRUCTION DETAILS FOR RESTORATION OF STREAM REALIGNMENT

UNNAMED TRIBUTARY TO THE W BRANCH OF SUAMICO RIVER

STH 29 EB

STH 29 WB

ST. AUGUSTINE RD

STH 156

316'EB'+00
318'EB'+00
320'EB'+00
322'EB'+00
324'EB'+00

10'A'+00
12'A'+00
14'A'+00
16'A'+00
18'A'+00
20'A'+00
22'A'+00
24'A'+00
26'A'+

198+00

PROP RW
RW
TLE
(F) 8855
(F) 8856

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	EROSION CONTROL - ST. AUGUSTINE RD & STH 29	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\022005_ec.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:100

2

N

28'A'+00

ST. AUGUSTINE RD

28'A'+00

30'A'+00

32'A'+00

34'A'+00

36'A'+00

38'A'+00

40'A'+00

TLE

PROP RW

EXISTING ST. AUGUSTINE RD

SEE CONSTRUCTION DETAILS FOR RESTORATION OF STREAM REALIGNMENT

** NON-NETTED EROSION MAT (CLASS II TYPE C OR URBAN CLASS 1 TYPE B) MAY BE USED AT TIE-IN LOCATIONS IF REQUIRED; OTHERWISE DO NOT PLACE EROSION MAT IN THE RE-ALIGNED WATERWAY AND RESTORE WITH TOPSOIL, SEED, AND GRAVEL RIFFLES PER CONSTRUCTION DETAIL UNLESS OTHERWISE ALLOWED BY THE ENGINEER.

RW

COTTONWOOD DR

LEGEND

- EROSION MAT CLASS I TYPE B
- EROSION MAT CLASS II TYPE C
- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- SLOPE INTERCEPT
- (F) SILT FENCE RELIEF (ROCK BAGS)
- TEMPORARY DITCH CHECKS
- SURFACE WATER FLOW
- DELINEATED WETLAND BOUNDARY
- CULVERT PIPE CHECK
- INLET PROTECTION TYPE A
- RIPRAP (TYPE)
  - (H) HEAVY (SEE STRUCTURE PLANS)
  - (F) MEDIUM (SEE CONSTRUCTION DETAILS)
- PERMITTED WETLAND IMPACTS

NOTES

MULCH ALL DISTURBED AREAS NOT COVERED WITH EROSION MAT

SEED AND FERTILIZE ALL DISTURBED AREAS

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	EROSION CONTROL - ST. AUGUSTINE RD	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\022006_ec.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:100

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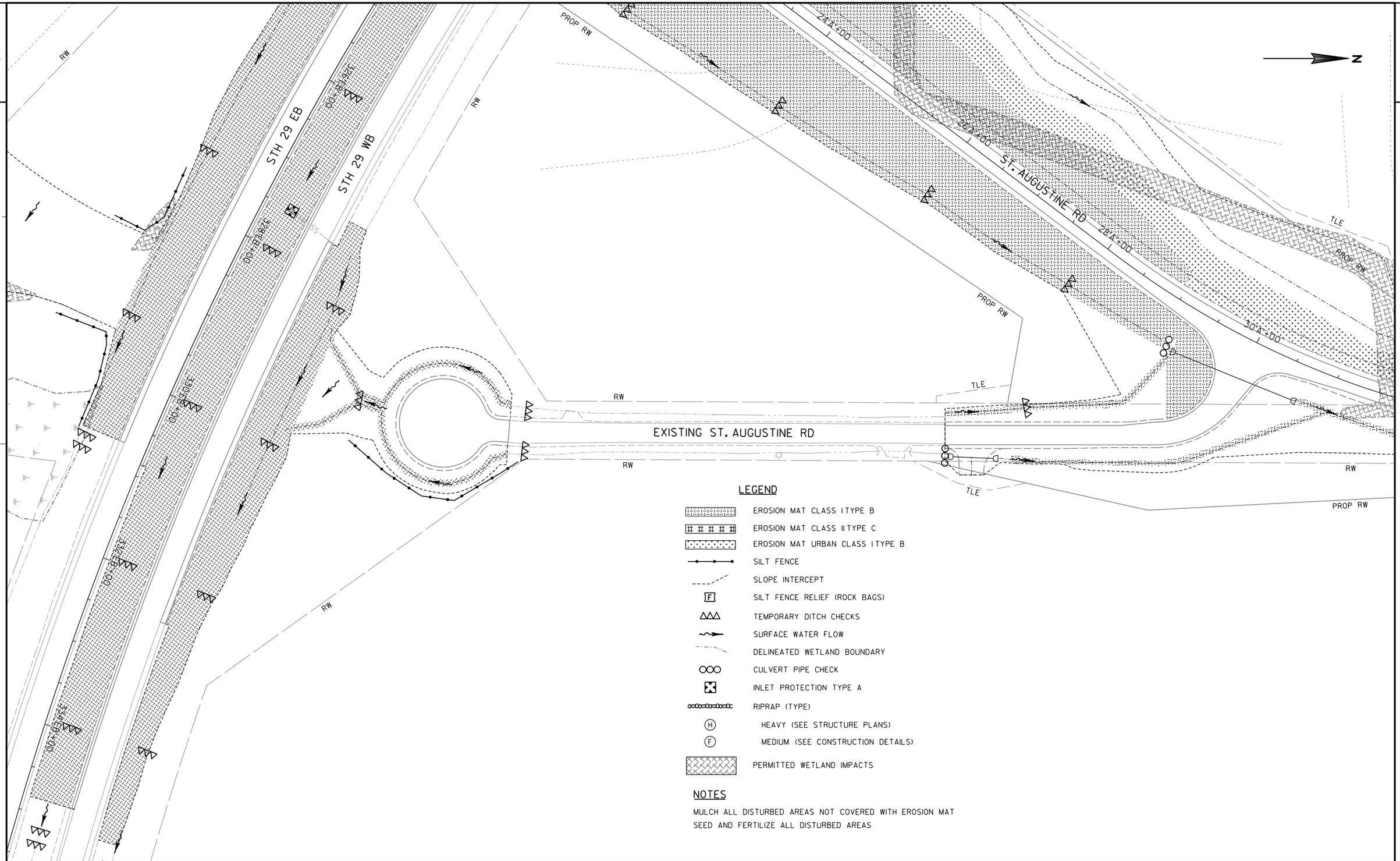


NOTES

MULCH ALL DISTURBED AREAS NOT COVERED WITH EROSION MAT

SEED AND FERTILIZE ALL DISTURBED AREAS

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	EROSION CONTROL - EXISTING ST. AUGUSTINE RD & STH 29	SHEET	E

2

LEGEND

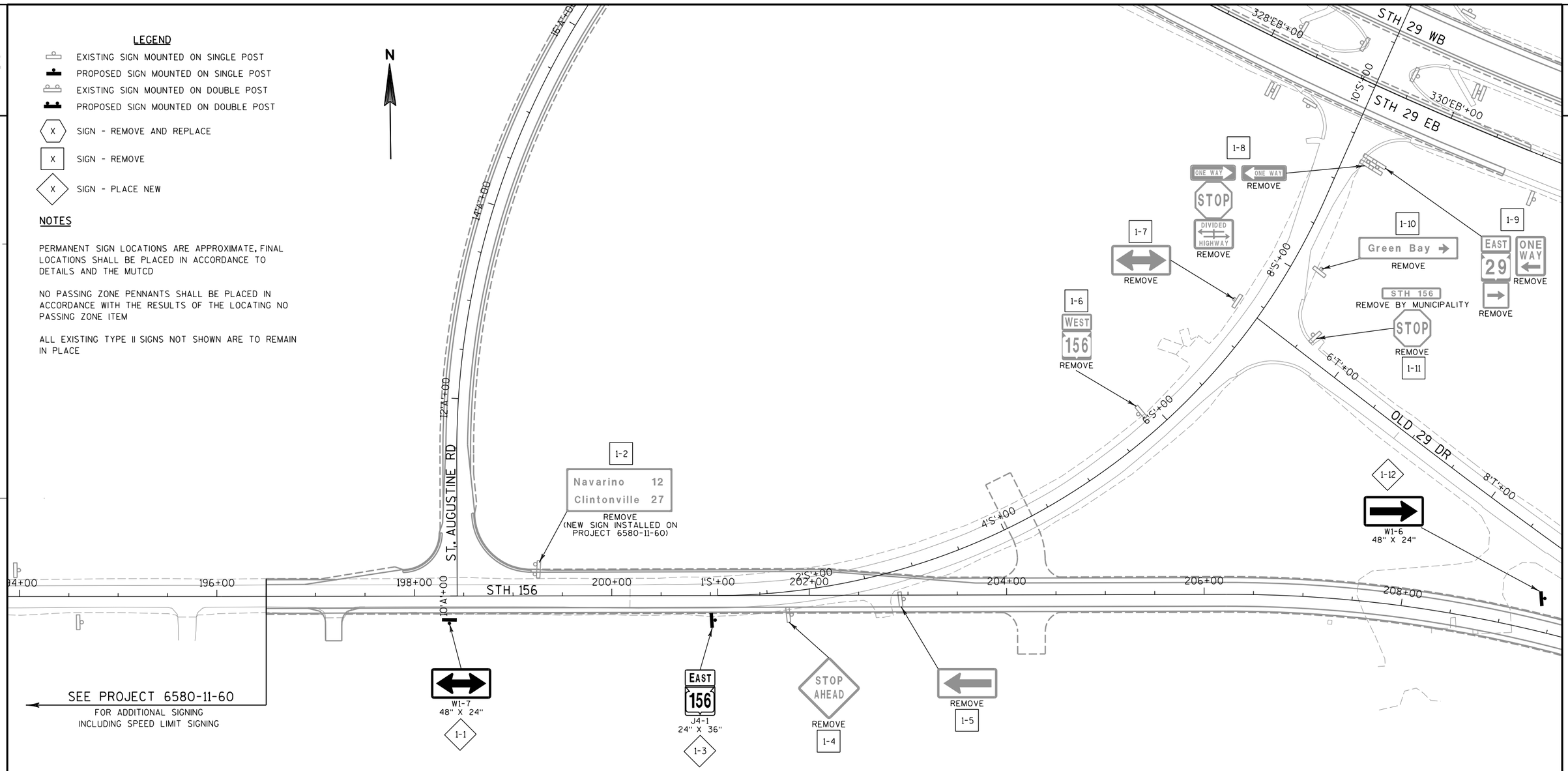
- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
- EXISTING SIGN MOUNTED ON DOUBLE POST
- PROPOSED SIGN MOUNTED ON DOUBLE POST
- (X) SIGN - REMOVE AND REPLACE
- [X] SIGN - REMOVE
- ◇X◇ SIGN - PLACE NEW

NOTES

PERMANENT SIGN LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD

NO PASSING ZONE PENNANTS SHALL BE PLACED IN ACCORDANCE WITH THE RESULTS OF THE LOCATING NO PASSING ZONE ITEM

ALL EXISTING TYPE II SIGNS NOT SHOWN ARE TO REMAIN IN PLACE



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	PERMANENT SIGNING - STH 156	SHEET	E

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STH 29 WB

STH 29 EB

334'EB'+00

336'EB'+00

0

LEGEND

- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
- EXISTING SIGN MOUNTED ON DOUBLE POST
- PROPOSED SIGN MOUNTED ON DOUBLE POST
- X — SIGN - REMOVE AND REPLACE
- X — SIGN - REMOVE
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N

2-10
W1-6
48" X 24"

OLD 29 DR

210+00

212+00

214+00

216+00

218+00

STH 156/OLD 29 DR

220+00

222+00

224+00

SPEED LIMIT 45
REMOVE
2-1

SCHOOL BUS ENTRANCE
REMOVE
2-2

2-3
STOP AHEAD
REMOVE

ANGLE DR

STOP
R1-1
30" X 30"
2-9
ANGLE DR
REMOVAL BY MUNICIPALITY

2-6
SPEED LIMIT 45
R2-1
24" X 30"
2-5

NO PASSING ZONE
W14-3
48" X 36"
2-4

2-8
NO PASSING ZONE
W14-3
48" X 36"

SCHOOL BUS STOP AHEAD
REMOVE
2-7

2

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	PERMANENT SIGNING - STH 156/OLD 29 DR	SHEET	E

2

2

LEGEND

- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
- EXISTING SIGN MOUNTED ON DOUBLE POST
- PROPOSED SIGN MOUNTED ON DOUBLE POST
- (X) SIGN - REMOVE AND REPLACE
- [X] SIGN - REMOVE
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NOTES

PERMANENT SIGN LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD

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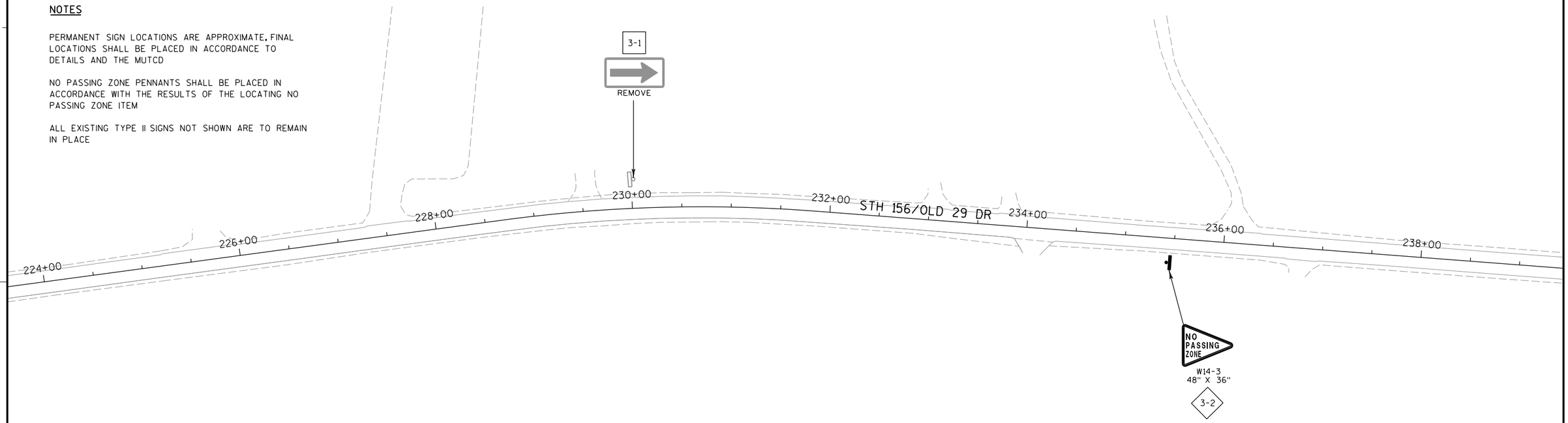

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	PERMANENT SIGNING - STH 156/OLD 29 DR	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\023203_ps.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:100

2

2

LEGEND

- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
- EXISTING SIGN MOUNTED ON DOUBLE POST
- PROPOSED SIGN MOUNTED ON DOUBLE POST
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- X — SIGN - REMOVE
- X — SIGN - PLACE NEW

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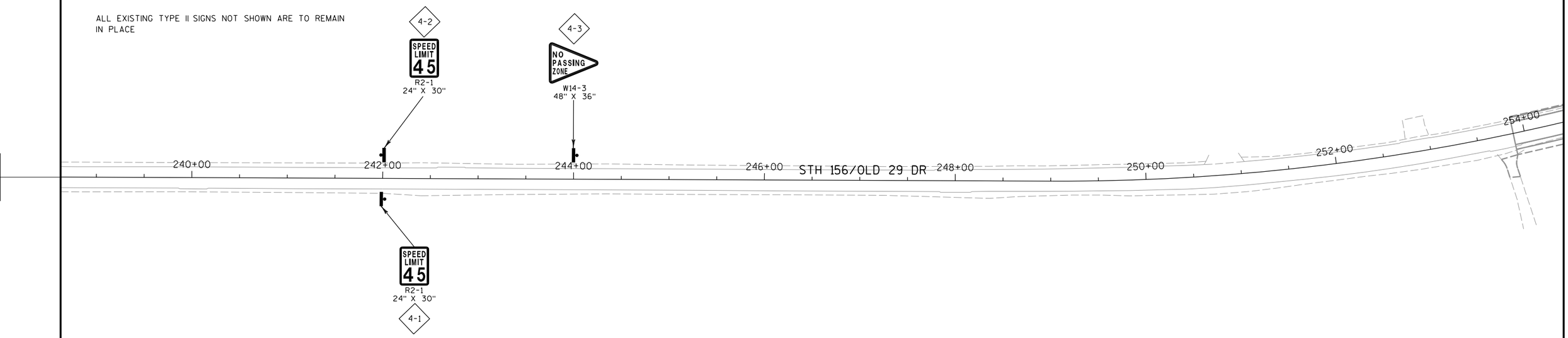

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	PERMANENT SIGNING - STH 156/OLD 29 DR	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\023204_ps.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:100

2

2

LEGEND

- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
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- PROPOSED SIGN MOUNTED ON DOUBLE POST
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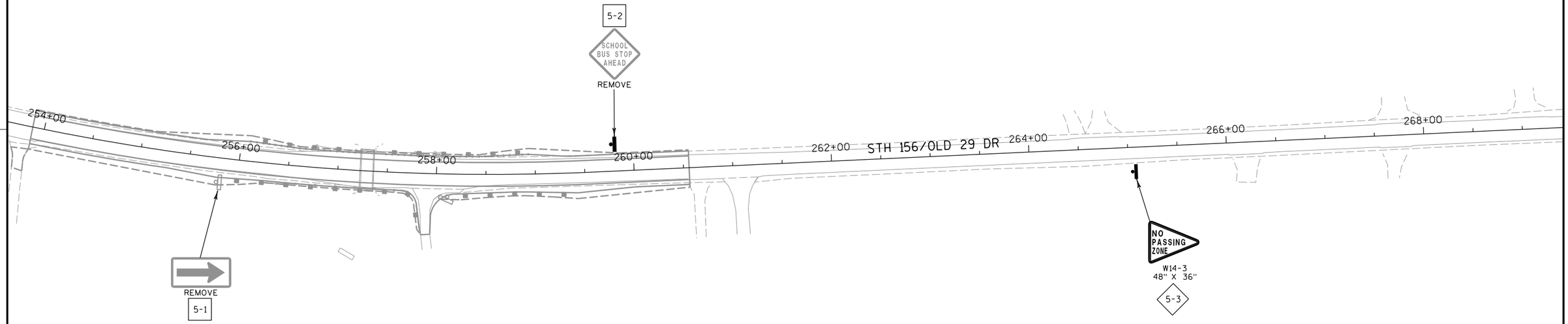

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	PERMANENT SIGNING - STH 156/OLD 29 DR	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\023205_ps.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:100

LEGEND

- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
- EXISTING SIGN MOUNTED ON DOUBLE POST
- PROPOSED SIGN MOUNTED ON DOUBLE POST
- (X) SIGN - REMOVE AND REPLACE
- [X] SIGN - REMOVE
- ◇X SIGN - PLACE NEW

NOTES

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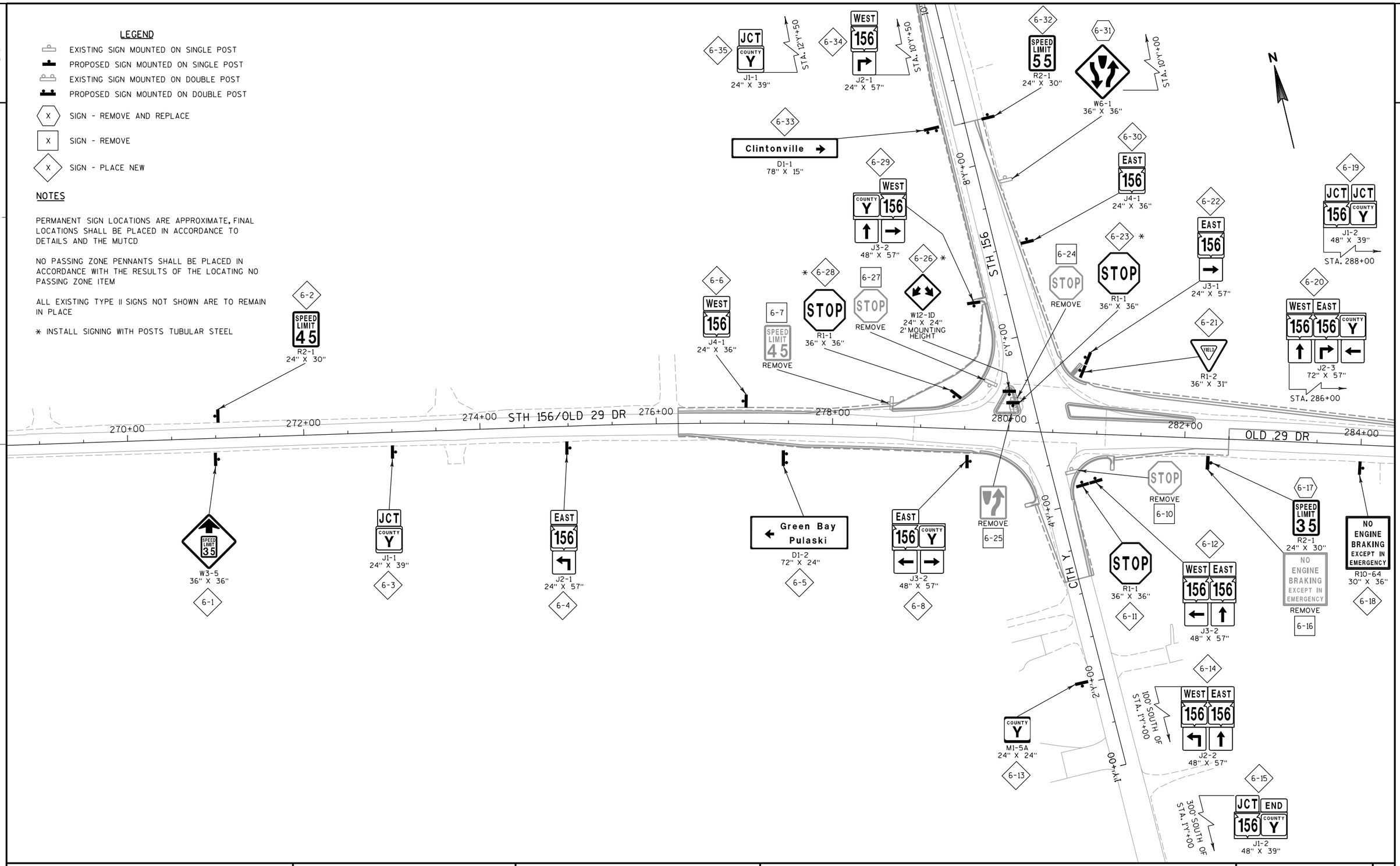
* INSTALL SIGNING WITH POSTS TUBULAR STEEL



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	PERMANENT SIGNING - STH 156/OLD 29 DR/CTH Y	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\023206_ps.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:100

2

LEGEND

- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
- EXISTING SIGN MOUNTED ON DOUBLE POST
- PROPOSED SIGN MOUNTED ON DOUBLE POST
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- [X] SIGN - REMOVE
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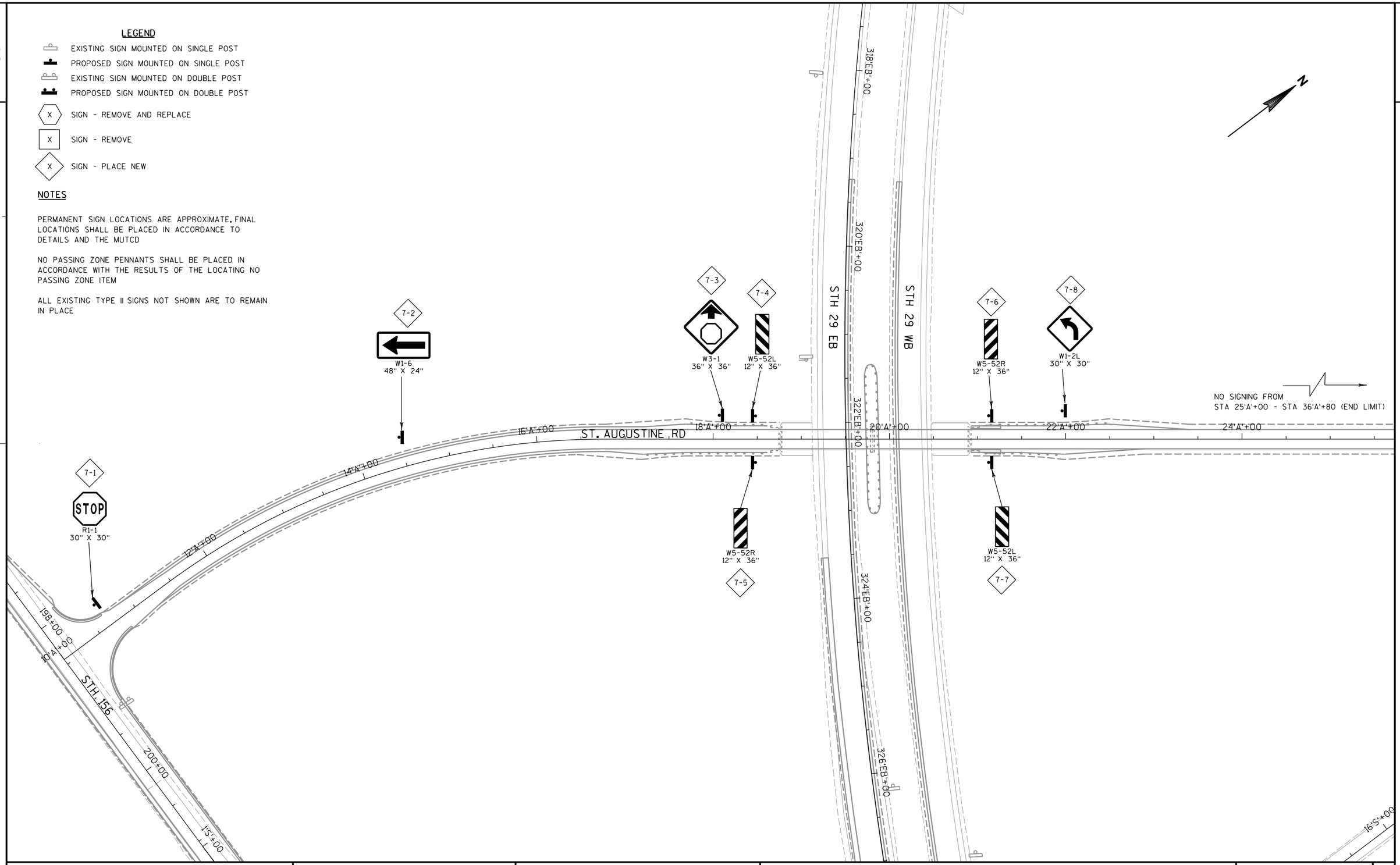
NO PASSING ZONE PENNANTS SHALL BE PLACED IN ACCORDANCE WITH THE RESULTS OF THE LOCATING NO PASSING ZONE ITEM

ALL EXISTING TYPE II SIGNS NOT SHOWN ARE TO REMAIN IN PLACE



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	PERMANENT SIGNING - ST. AUGUSTINE RD	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\023210_ps.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
- EXISTING SIGN MOUNTED ON DOUBLE POST
- PROPOSED SIGN MOUNTED ON DOUBLE POST
- X — SIGN - REMOVE AND REPLACE
- X — SIGN - REMOVE
- X — SIGN - PLACE NEW

NOTES

PERMANENT SIGN LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD

NO PASSING ZONE PENNANTS SHALL BE PLACED IN ACCORDANCE WITH THE RESULTS OF THE LOCATING NO PASSING ZONE ITEM

ALL EXISTING TYPE II SIGNS NOT SHOWN ARE TO REMAIN IN PLACE

N

STH 29 EB

STH 29 WB

326EB+00

328EB+00

8-1 WEST 29 REMOVE

8-2 ONE WAY ONE WAY REMOVE

STOP DIVIDED HIGHWAY REMOVE

ST. AUGUSTINE RD

24'A'+00

26'A'+00

28'A'+00

30'A'+00

32'A'+00

EXISTING ST. AUGUSTINE RD

12'S'+00

14'S'+00

16'S'+00

18'S'+00

20'S'+00

22'S'+00

8-7 STOP AHEAD REMOVE

8-8 DEAD END W14-1 30" X 30"

STOP REMOVE 8-3

W5-56 18" X 18" (4' MOUNTING HEIGHT) 8-4 8-5 8-6

STOP R1-1 30" X 30" 8-9

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	PERMANENT SIGNING - EXISTING ST. AUGUSTINE RD	SHEET	E

2

LEGEND

- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
- EXISTING SIGN MOUNTED ON DOUBLE POST
- PROPOSED SIGN MOUNTED ON DOUBLE POST
- X — SIGN - REMOVE AND REPLACE
- X — SIGN - REMOVE
- X — SIGN - PLACE NEW

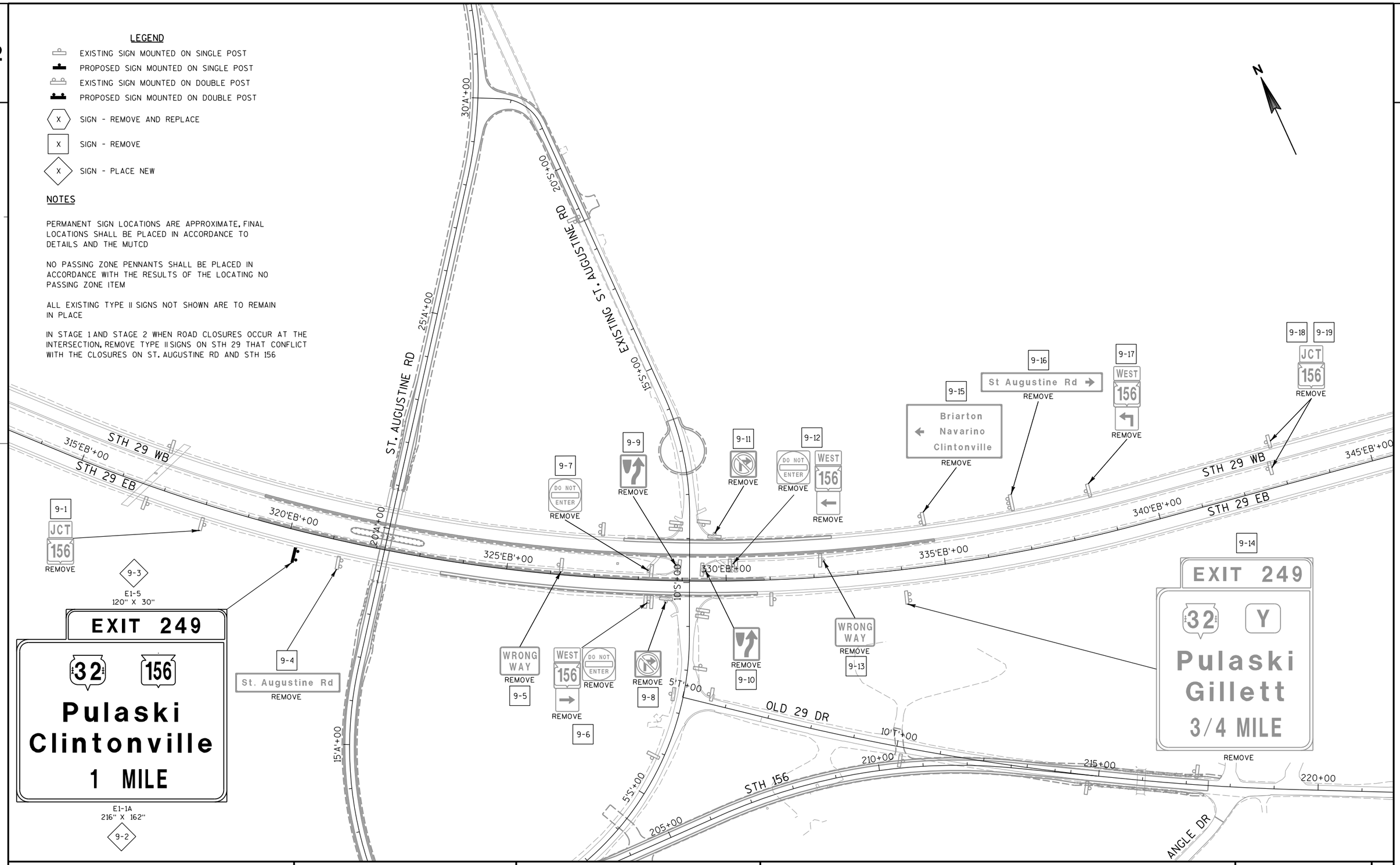
NOTES

PERMANENT SIGN LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD

NO PASSING ZONE PENNANTS SHALL BE PLACED IN ACCORDANCE WITH THE RESULTS OF THE LOCATING NO PASSING ZONE ITEM

ALL EXISTING TYPE II SIGNS NOT SHOWN ARE TO REMAIN IN PLACE

IN STAGE 1 AND STAGE 2 WHEN ROAD CLOSURES OCCUR AT THE INTERSECTION, REMOVE TYPE II SIGNS ON STH 29 THAT CONFLICT WITH THE CLOSURES ON ST. AUGUSTINE RD AND STH 156



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	PERMANENT SIGNING - STH 29	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\023230_ps.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:200

2

2

LEGEND

EXISTING SIGN MOUNTED ON SINGLE POST

PROPOSED SIGN MOUNTED ON SINGLE POST

EXISTING SIGN MOUNTED ON DOUBLE POST

PROPOSED SIGN MOUNTED ON DOUBLE POST

X SIGN - REMOVE AND REPLACE

X SIGN - REMOVE

X SIGN - PLACE NEW

NOTES

PERMANENT SIGN LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD

NO PASSING ZONE PENNANTS SHALL BE PLACED IN ACCORDANCE WITH THE RESULTS OF THE LOCATING NO PASSING ZONE ITEM

ALL EXISTING TYPE II SIGNS NOT SHOWN ARE TO REMAIN IN PLACE

N

STH 29 WB

345'EB'+00 350'EB'+00 355'EB'+00 360'EB'+00 365'EB'+00 370'EB'+00 375'EB'+00

STH 29 EB

10-2
E1-5
120" X 30"

EXIT 249

32 156

Pulaski

Clintonville

E4-1A
252" X 132"
10-1

225+00

STH 156

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	PERMANENT SIGNING - STH 29	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\023231_ps.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:200

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
- EXISTING SIGN MOUNTED ON DOUBLE POST
- PROPOSED SIGN MOUNTED ON DOUBLE POST
- (X) SIGN - REMOVE AND REPLACE
- [X] SIGN - REMOVE
- ◇X SIGN - PLACE NEW
- (X) SIGN - MOVE

NOTES

PERMANENT SIGN LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD

NO PASSING ZONE PENNANTS SHALL BE PLACED IN ACCORDANCE WITH THE RESULTS OF THE LOCATING NO PASSING ZONE ITEM

ALL EXISTING TYPE II SIGNS NOT SHOWN ARE TO REMAIN IN PLACE

11-27 JCT JCT / 29 COUNTY Y — REMOVE
1,000'+ FROM STH 29 WB ENTRANCE RAMP

11-26 JCT JCT / 29 156 — J1-2 48" X 39"
11-25 JCT JCT / 29 COUNTY Y — REMOVE
600' MIN. FROM STH 29 WB ENTRANCE RAMP

11-24 Green Bay Clintonville / Wausau — D1-3 78" X 36"
11-24A WRONG WAY — MOVE

11-23 Bonduel Shawano — REMOVE
200' MIN. FROM STH 29 WB ENTRANCE RAMP

400' MIN. FROM STH 29 WB ENTRANCE RAMP

11-28 WEST WEST / 156 29 — J2-2 48" X 57"

11-22 WEST WEST / 156 29 — J3-2 48" X 57"
11-21 WEST TO / 29 156 — REMOVE

STH 32

WEST 29 — TO REMAIN

11-17 SOUTH NORTH / COUNTY Y 32 — REMOVE
11-18 WEST NORTH / 156 32 — J3-2 48" X 57"

11-20 Clintonville / Pulaski — D1-2 78" X 30"
Pulaski Gillett — REMOVE
11-19

N

11-22A DO NOT ENTER — MOVE
11-22B RAMP CLOSED USE ALT ROUTE — MOVE

11-14 Clintonville / Green Bay — D1-2 78" X 30"
11-13 Howard Green Bay — REMOVE

EAST SOUTH SOUTH / 29 32 COUNTY Y — REMOVE
11-15
EAST SOUTH WEST / 29 32 156 — J2-3 72" X 57"
11-16

STH 29 WB
STH 29 EB
375'EB'+00
380'EB'+00
385'EB'+00
390'EB'+00
395'EB'+00
400'EB'+00
405'EB'+00

11-1 Pulaski / Clintonville — D1-2 78" X 30"
11-2 Pulaski Gillett — REMOVE

WEST NORTH / 29 32 — TO REMAIN

Bonduel Shawano Wausau — REMOVE
11-11
Pulaski / Wausau — D1-2 60" X 30"
11-12

EAST SOUTH / 29 32 — TO REMAIN

Pulaski Wausau / Green Bay — TO REMAIN

22V+00
20V+00
STH 156

WEST 156 — J3-1 24" X 57"
11-9

NORTH SOUTH / 32 COUNTY Y — REMOVE
11-3
NORTH WEST / 32 156 — J3-2 48" X 57"
11-4

EAST SOUTH / 29 32 — TO REMAIN

EAST SOUTH / 29 32 — J2-2 48" X 57"
11-10

11-6
JCT JCT END / 29 32 COUNTY Y — REMOVE

JCT JCT END / 29 32 156 — J1-3 72" X 39"
11-5

WEST 156 — J4-1 24" X 36"
11-8
COUNTY Y — REMOVE
11-7

11-8A WRONG WAY — MOVE

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	PERMANENT SIGNING - STH 29	SHEET	E

2

2

LEGEND

- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
- EXISTING SIGN MOUNTED ON DOUBLE POST
- PROPOSED SIGN MOUNTED ON DOUBLE POST
- X — SIGN - REMOVE AND REPLACE
- X — SIGN - REMOVE
- X — SIGN - PLACE NEW

NOTES

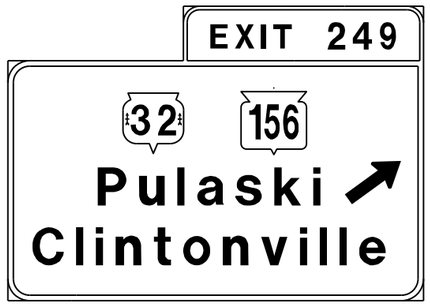
PERMANENT SIGN LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD

NO PASSING ZONE PENNANTS SHALL BE PLACED IN ACCORDANCE WITH THE RESULTS OF THE LOCATING NO PASSING ZONE ITEM

ALL EXISTING TYPE II SIGNS NOT SHOWN ARE TO REMAIN IN PLACE

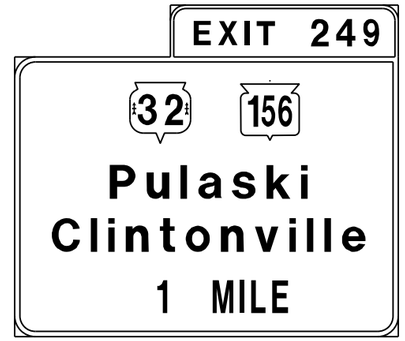
N

12-2
E1-5
120" X 30"



E4-1A
252" X 132"
12-1

12-4
E1-5
120" X 30"



E1-1A
216" X 162"
12-3

STA. 462'EB'+00 (ON WB SIDE ONE MILE FROM THE START OF THE EXIT 249 RAMP)

STH 29 WB

'EB'+00 410'EB'+00 415'EB'+00 420'EB'+00 425'EB'+00 430'EB'+00 435'EB'+00

STH 29 EB

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	PERMANENT SIGNING - STH 29	SHEET	E

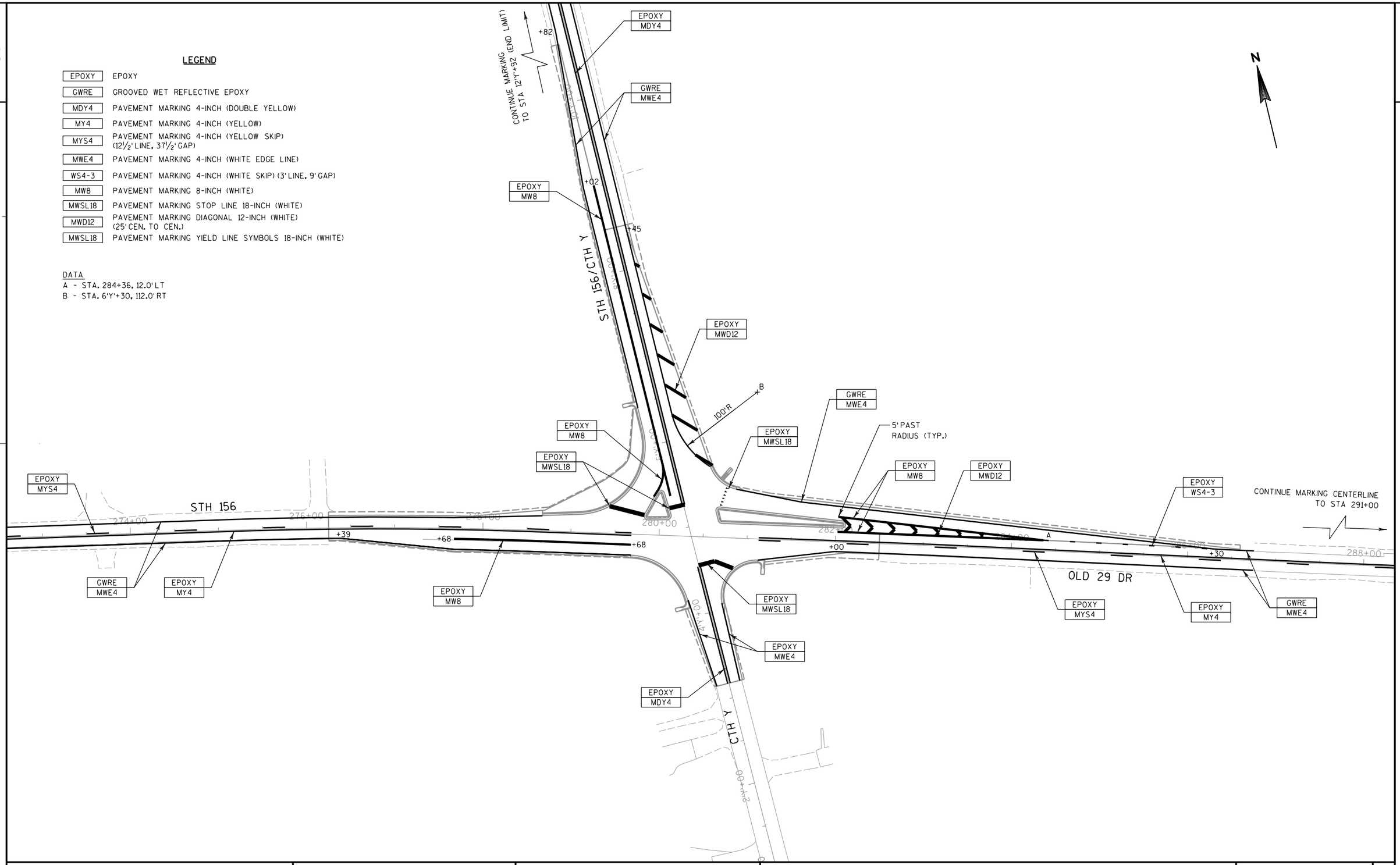
FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\023233_ps.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:200

2

LEGEND

EPOXY	EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY4	PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)
MY4	PAVEMENT MARKING 4-INCH (YELLOW)
MYS4	PAVEMENT MARKING 4-INCH (YELLOW SKIP) (12½' LINE, 37½' GAP)
MWE4	PAVEMENT MARKING 4-INCH (WHITE EDGE LINE)
WS4-3	PAVEMENT MARKING 4-INCH (WHITE SKIP) (3' LINE, 9' GAP)
MW8	PAVEMENT MARKING 8-INCH (WHITE)
MWSL18	PAVEMENT MARKING STOP LINE 18-INCH (WHITE)
MWD12	PAVEMENT MARKING DIAGONAL 12-INCH (WHITE) (25' CEN. TO CEN.)
MWSL18	PAVEMENT MARKING YIELD LINE SYMBOLS 18-INCH (WHITE)

DATA
A - STA. 284+36, 12.0' LT
B - STA. 6'Y'+30, 112.0' RT



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	PAVEMENT MARKING - STH 156/OLD 29 DR	SHEET E

TRAFFIC CONTROL GENERAL NOTES

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

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

3) "WO" SIGNS ARE THE SAME A "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

4) FOR NIGHTTIME OPERATION ALL DRUMS IN TAPERS SHALL HAVE A TYPE C WARNING LIGHT.

5) ALL TYPE III BARRICADES SHALL BE 8' WIDE, UNLESS OTHERWISE NOTED. EQUIP WITH TYPE "A" (LOW INTENSITY FLASHING) LIGHTS PER SDDS.

6) MAINTAIN ALL EXISTING STOP SIGNS AT ALL TIMES.

7) A FLAGGER MAY BE REQUIRED WHERE CONSTRUCTION VEHICLES ENTER OR LEAVE WORK AREAS IF WARRANTED BY CONDITIONS OR AS DIRECTED BY THE ENGINEER.

8) PLACE BASE AGGREGATE AT A 3:1 MAXIMUM SLOPE FROM THE EDGE OF PAVEMENT DURING NON WORKING HOURS ON ALL OPEN ROADWAYS.

NOTES

\# ADJUST TRAFFIC CONTROL PCMS MESSAGE AS NEEDED BASED ON WORK ZONE AREAS AND CONSTRUCTION SCHEDULE.

* ADD/REVISE PCM MESSAGES TO WARN TRAFFIC OF UNUSUAL CIRCUMSTANCES DUE TO TRUCKS ENTERING TRAFFIC OR OTHER ACTIVITIES. MAINTAIN STH 29 PCMS FOR THE DURATION FOR INCIDENT MANAGEMENT AND OTHER NEEDS DETERMINED BY THE ENGINEER.

CONSIDER GEOMETRICS WHEN LOCATING MESSAGE BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE BOARD FOR A MINIMUM OF 1000 FEET IN FRONT OF THE MESSAGE BOARD.

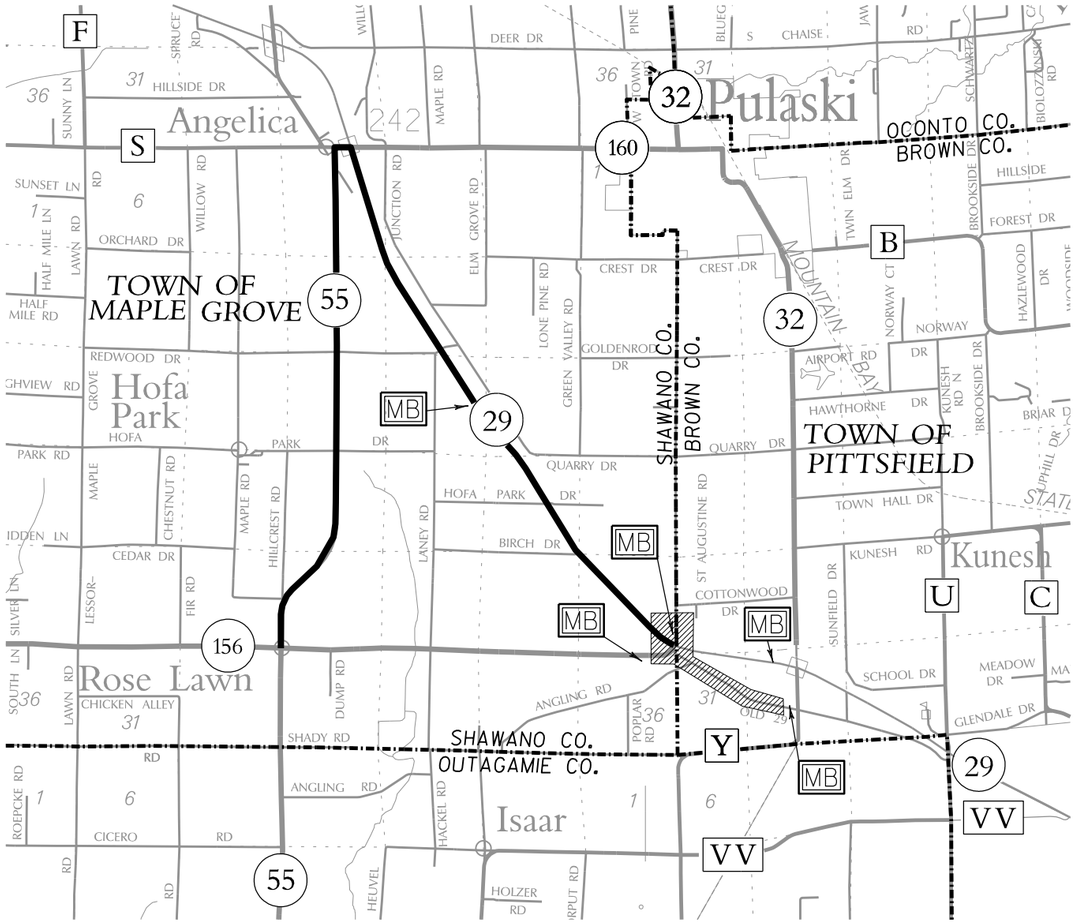
PLACE MESSAGE BOARDS AS FAR AWAY FROM LIVE TRAFFIC LANES AS POSSIBLE WITHOUT HAMPERING VISIBILITY. IN ADVANCE OF FREEWAY CONSTRUCTION PROJECTS THE SIGNS SHOULD BE PLACED ON THE BACKSLOPE BEYOND THE DITCH. THE LOCATION SELECTED SHOULD BE AT OR SLIGHTLY ABOVE THE ELEVATION OF THE ROADWAY. FOR INTERMITTENT WORK SUCH AS FREEWAY LANE CLOSURE, OR WHERE SITE CONDITIONS DO NOT ALLOW OTHERWISE, THE SIGNS MAY BE PLACED ON THE SHOULDER. THE SITE SHOULD BE VISITED TO ASSURE VISIBILITY, SAFETY AND MAINTENANCE CONSIDERATIONS. A TAPER OF REFLECTORIZED DRUMS OR BARRICADES SHOULD BE PLACED AHEAD OF PCMS PLACED ON THE SHOULDER IF IT IS NOT SHIELDED BY A BARRIER.

PLACE TRAFFIC CONTROL SIGNS PCMS THAT DISPLAY THE "PRIOR TO CONSTRUCTION" MESSAGE 7 DAYS PRIOR TO THE EXPECTED START OF THE PROPOSED WORK THAT WILL REQUIRE THE DETOUR.

IN STAGE 2 WHEN STH 156 IS CLOSED, REMOVE SIGNS ON STH 29 AS SHOWN ON THE PERMANENT SIGNING PLAN THAT CONFLICT WITH THE STH 156 CLOSURE.

TRAFFIC CONTROL SIGNS PCMS MESSAGES

	PRIOR TO STAGE 1 CONSTRUCTION		* DURING STAGE 1 CONSTRUCTION		PRIOR TO STAGE 2 CONSTRUCTION		* DURING STAGE 2 CONSTRUCTION		ROLLING CLOSURE	
# PCMS SIGN LOCATION	PHASE 1 (2 SEC)	PHASE 2 (2 SEC)	PHASE 1 (2 SEC)	PHASE 2 (2 SEC)	PHASE 1 (2 SEC)	PHASE 2 (2 SEC)	PHASE 1 (2 SEC)	PHASE 2 (2 SEC)	PHASE 1 (2 SEC)	PHASE 2 (2 SEC)
STH 29 EB	ROAD WORK STARTS	DATE	--	--	ROAD WORK STARTS	DATE	--	--	EXPECT DELAYS	TRAFFIC STOPPED AHEAD
STH 29 WB	ROAD WORK STARTS	DATE	--	--	ROAD WORK STARTS	DATE	--	--	EXPECT DELAYS	TRAFFIC STOPPED AHEAD
STH 156 WEST OF OLD 29 DR	OLD 29 CLOSING	STARTING DATE	--	--	HWY 156 CLOSING DATE	FROM HWY 55 - HWY 29	--	--	--	--
OLD 29 DR WEST OF CTH Y	OLD 29 CLOSING	STARTING DATE	--	--	OLD 29 CLOSING DATE	FROM HWY 156 - COUNTY Y	--	--	--	--
ST. AUGUSTINE RD SOUTH OF COTTONWOOD DR	ST. AUG-USTINE CLOSING	STARTING DATE	--	--	--	--	--	--	--	--



LEGEND

- PROJECT AREA
- DETOUR ROUTE SHOWN IN PROJECT 6580-11-60 (FOR STAGE 2)
- MB TRAFFIC CONTROL SIGNS PCMS

N

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	TRAFFIC CONTROL - TYPICAL SECTION	SHEET	E

2

N

END CONSTRUCTION
ST. AUGUSTINE RD
STA 37'A'+00.00

40'A'+00

COTTONWOOD DR

REALIGN STREAM AND CONSTRUCT GRADING AND NORTH ABUTMENT OF PROPOSED ST. AUGUSTINE RD OVERPASS FOR STRUCTURE B-58-129

300'EB'+00

EXISTING ST. AUGUSTINE RD

ST. AUGUSTINE RD

CLOSE EXISTING ST. AUGUSTINE ROAD BETWEEN COTTONWOOD DR AND STH 29 WHEN WORK REQUIRING TEMPORARY CONCRETE BARRIER ON STH 29 WB BEGINS, MAINTAIN LOCAL ACCESS FROM NORTH

WEST BRANCH OF THE SUAMICO RIVER

BEGIN CONSTRUCTION
STH 29
STA 316'EB'+50.00

CONSTRUCT GRADING AND SOUTH ABUTMENT OF PROPOSED ST. AUGUSTINE RD OVERPASS FOR STRUCTURE B-58-129

UNNAMED TRIBUTARY OF THE WEST BRANCH OF THE SUAMICO RIVER

END CONSTRUCTION
STH 29
STA 335'EB'+09.00

340'EB'+00

360'EB'+00

STH 29

380'EB'+00

400'EB'+00

STH 29/32

420'EB'+0

STH 32

EXISTING STH 156

200+00

10'T'+00

180+00

STH 156

CONSTRUCT CURVE RE-ALIGNMENT (OPTIONAL)

STA 11'T'+75 - STA 13'T'+64
TEMPORARY CONNECTION, SEE DETAIL SHEET

*CONSTRUCT B-5-435 AND RECONSTRUCT APPROACHES

220+00

ANGLE DR

BEGIN CONSTRUCTION
STH 156
STA 196+50.00

SEE PROJECT 6580-11-60
NO WORK PLANNED IN STAGE 1

ITEMS OF WORK (STAGE 1)

SHAWANO COUNTY
BROWN COUNTY

UNNAMED TRIBUTARY OF THE WEST BRANCH OF THE SUAMICO RIVER

240+00

STH 156/OLD 29 DR

MILL & OVERLAY

260+00

*CONSTRUCT C-5-151 AND RECONSTRUCT APPROACHES

22'Y'+00

STH 156

END CONSTRUCTION
STH 156
STA 12'Y'+92.00

12'Y'+00

MILL & OVERLAY

**RECONSTRUCT INTERSECTION

OLD 29 DR 300+00

2'Y'+00

CTH Y

BEGIN CONSTRUCTION
CTH Y
STA 3'Y'+17.00

END CONSTRUCTION
OLD 29 DR
STA 286+59.26

LEGEND

1. PLACE TRAFFIC CONTROL DEVICES PER SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES".
2. PLACE TRAFFIC CONTROL DEVICES PER SDD "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES".
3. PLACE TRAFFIC CONTROL DEVICES PER SDD "TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)".
4. PLACE TRAFFIC CONTROL DEVICES PER SDD "TRAFFIC CONTROL, LANE CLOSURE" AND "TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION."
5. PLACE TRAFFIC CONTROL DEVICES PER SDD "TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.".
6. PLACE TRAFFIC CONTROL DEVICES PER SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC".
7. PLACE TRAFFIC CONTROL DEVICES PER SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC".

STAGE 1 CONSTRUCTION

STAGE 2 CONSTRUCTION

NOTES

* DO NOT CLOSE OLD 29 DR (NEW STH 156) TO LOCAL AND EMERGENCY TRAFFIC AT STRUCTURES B-5-435 AND C-5-151 AT THE SAME TIME.

** MAINTAIN ONE LANE OF TRAFFIC WITH FLAGGING ON THE NORTH, SOUTH, AND EAST LEGS OF THE STH 156/CTH Y/OLD 29 DR INTERSECTION DURING WORKING HOURS AND OPEN TWO LANES DURING NON WORKING HOURS. MAINTAIN TRAFFIC ON A MINIMUM OF BASE AGGREGATE SURFACE.

SEE TRAFFIC CONTROL TYPICAL SECTIONS AND DETAIL SHEETS FOR ADDITIONAL INFORMATION ON STH 29.

EXISTING ST. AUGUSTINE WILL REMAIN CLOSED DURING WINTER SHUTDOWN.

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	TRAFFIC CONTROL - STAGE 1 OVERVIEW	SHEET	E

2

N

LEGEND

1. PLACE TRAFFIC CONTROL DEVICES PER SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES".
2. PLACE TRAFFIC CONTROL DEVICES PER SDD "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES".
3. PLACE TRAFFIC CONTROL DEVICES PER SDD "TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)".
4. PLACE TRAFFIC CONTROL DEVICES PER SDD "TRAFFIC CONTROL, LANE CLOSURE" AND "TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION."
5. PLACE TRAFFIC CONTROL DEVICES PER SDD "TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.".
6. PLACE TRAFFIC CONTROL DEVICES PER SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC".
7. PLACE TRAFFIC CONTROL DEVICES PER SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC".

STAGE 1 CONSTRUCTION

STAGE 2 CONSTRUCTION

NOTE

SEE TRAFFIC CONTROL TYPICAL SECTIONS AND DETAIL SHEETS FOR ADDITIONAL INFORMATION ON STH 29.

END CONSTRUCTION
ST. AUGUSTINE RD
STA 37'A'+00.00

COMPLETE CONSTRUCTION OF ST. AUGUSTINE RD, REMOVAL OF EXISTING ST. AUGUSTINE RD, AND PROPOSED ST. AUGUSTINE RD OVERPASS STRUCTURE B-58-129

40'A'+00

COTTONWOOD DR

300'EB'+00

ST. AUGUSTINE RD

EXISTING ST. AUGUSTINE RD

BEGIN CONSTRUCTION
STH 29
STA 316'EB'+50.00

COMPLETE CONSTRUCTION OF ST. AUGUSTINE RD AND STH 156, REMOVAL OF EXISTING STH 156/OLD 29 DR, AND PROPOSED ST. AUGUSTINE RD OVERPASS STRUCTURE B-58-129

UNNAMED TRIBUTARY OF THE WEST BRANCH OF THE SUAMICO RIVER

COMPLETE MEDIAN GRADING, SHOULDER WORK, AND PIER FOR STRUCTURE B-58-129

END CONSTRUCTION
STH 29
STA 335'EB'+09.00

WEST BRANCH OF THE SUAMICO RIVER

340'EB'+00

360'EB'+00

STH 29

380'EB'+00

400'EB'+00

STH 29/32

420'EB'+0

STH 32

EXISTING STH 156

200+00

180+00

STH 156

MAINTAIN DRIVEWAY ACCESS ON A MINIMUM OF BASE AGGREGATE DURING CONSTRUCTION

BEGIN CONSTRUCTION
STH 156
STA 196+50.00

SEE PROJECT 6580-11-60

220+00

ANGLE DR

240+00

STH 156/OLD 29 DR

UNNAMED TRIBUTARY OF THE WEST BRANCH OF THE SUAMICO RIVER

22'Y'+00

STH 156

END CONSTRUCTION
STH 156
STA 12'Y'+92.00

12'Y'+00

260+00

SHAWANO COUNTY
BROWN COUNTY

OLD 29 DR

300+00

2'Y'+00

CTH Y

BEGIN CONSTRUCTION
CTH Y
STA 3'Y'+17.00

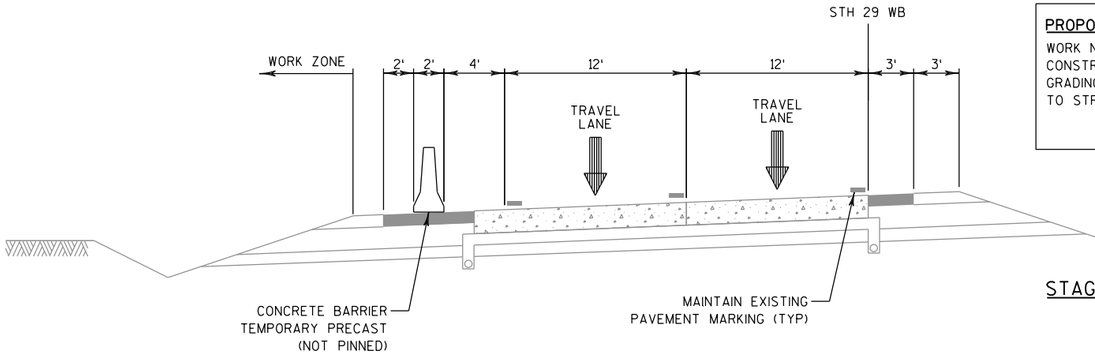
END CONSTRUCTION
OLD 29 DR
STA 286+59.26

ITEMS OF WORK (STAGE 2)

ITEMS OF WORK (STAGE 3 - NOT SHOWN)

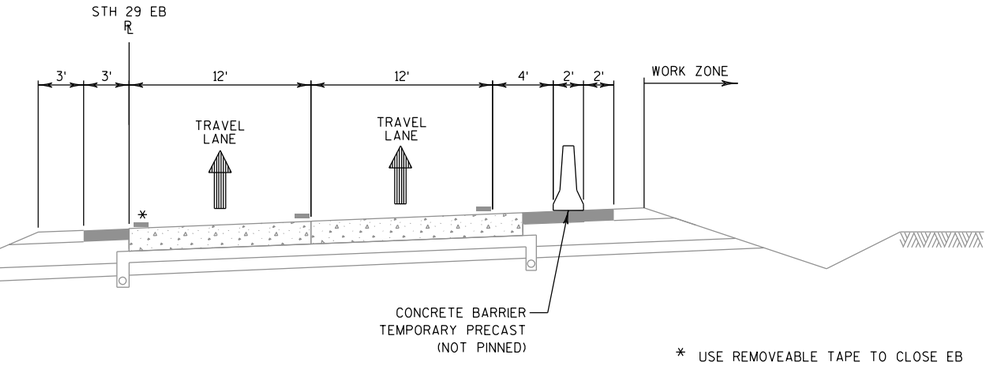
PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	TRAFFIC CONTROL - STAGE 2 OVERVIEW	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\025003_tc.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:800



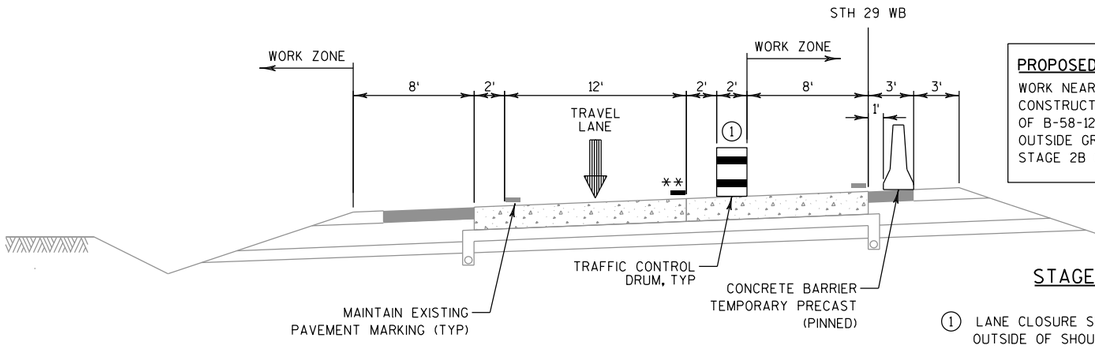
PROPOSED WORK STAGE 1

WORK NEAR STH 29:
CONSTRUCT ABUTMENTS AND GRADING FOR ROADWAY APPROACHES TO STRUCTURE B-58-129



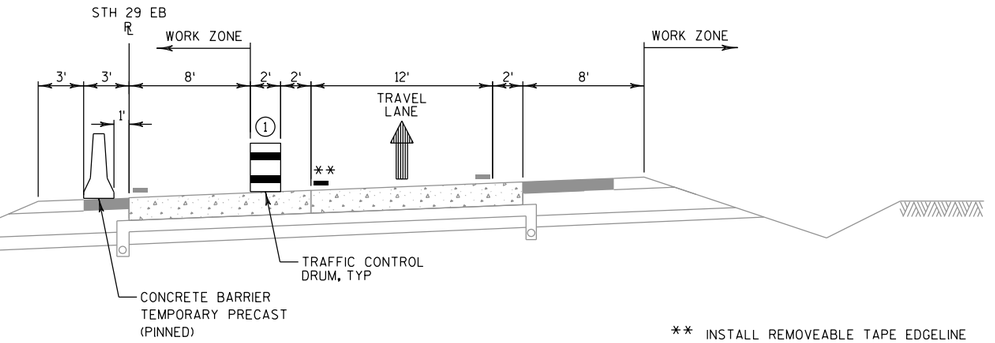
STAGE 1 TYPICAL SECTION
STH 29

* USE REMOVEABLE TAPE TO CLOSE EB LEFT TURN LANE AT ST. AUGUSTINE RD



PROPOSED WORK STAGES 2A & 2B

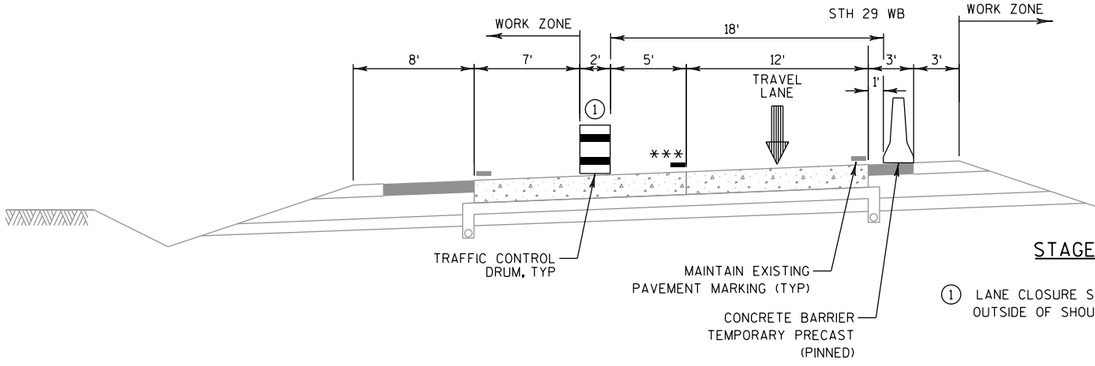
WORK NEAR STH 29:
CONSTRUCT PIER AND SUPER STRUCTURE OF B-58-129, COMPLETE MEDIAN AND OUTSIDE GRADING AND SHOULDER WORK IN STAGE 2B OR 3

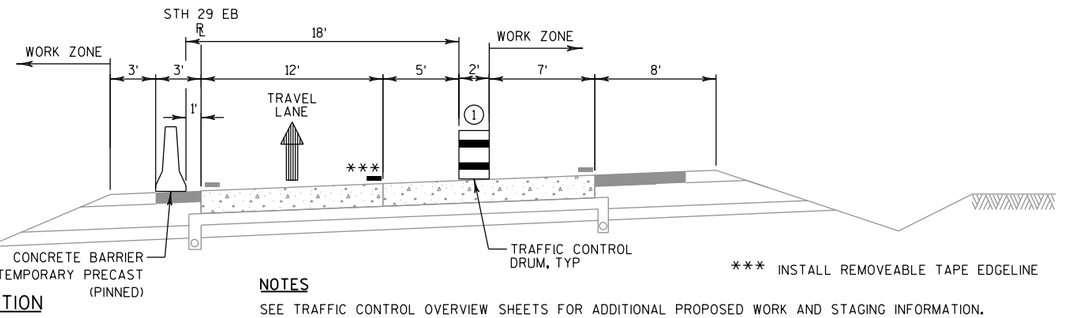


STAGE 2A TYPICAL SECTION
STH 29

① LANE CLOSURE SHOWN, PLACE TRAFFIC CONTROL DRUMS OUTSIDE OF SHOULDER WHILE LANE IS OPEN TO TRAFFIC

** INSTALL REMOVEABLE TAPE EDGELINE





STAGE 2B TYPICAL SECTION
STH 29

① LANE CLOSURE SHOWN, PLACE TRAFFIC CONTROL DRUMS OUTSIDE OF SHOULDER WHILE LANE IS OPEN TO TRAFFIC

*** INSTALL REMOVEABLE TAPE EDGELINE

NOTES

SEE TRAFFIC CONTROL OVERVIEW SHEETS FOR ADDITIONAL PROPOSED WORK AND STAGING INFORMATION.

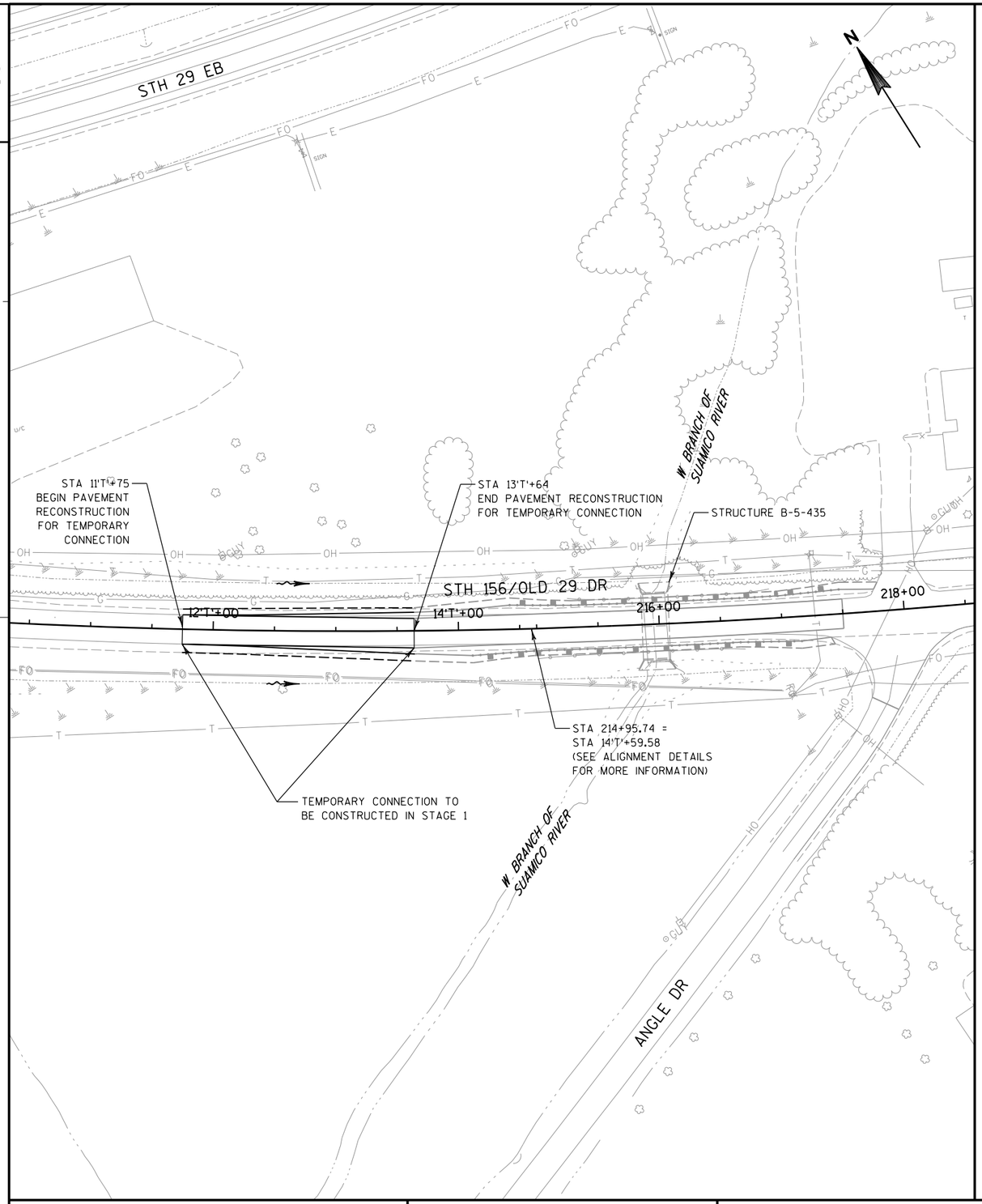
DURING WINTER SHUTDOWN BETWEEN STAGE 1 AND STAGE 2, REMOVE CONCRETE BARRIER TEMPORARY PRECAST FROM STH 29 AND FULLY OPEN OUTSIDE SHOULDERS. ENSURE THE EXISTING CLEAR ZONE (34') ON STH 29 IS CLEAR OF ALL HAZARDS DURING WINTER SHUTDOWN.

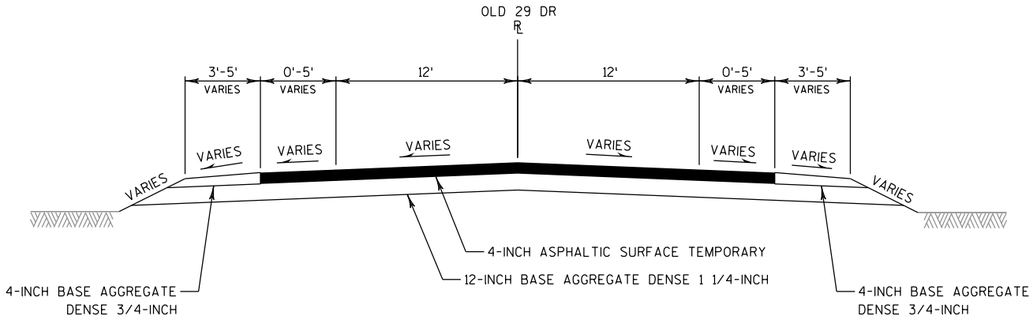
DO NOT REMOVE THE TEMPORARY PRECAST BARRIER IN STAGE 2A/2B UNTIL THE NEW GUARDRAIL IS IN PLACE TO PROTECT THE PIER.

STAGE 3:
UPON COMPLETION OF B-58-129 PIER AND ABUTMENTS, SHOULDER RECONSTRUCTION ON STH 29 MAY BE COMPLETED UNDER LANE CLOSURES AND SHOULDER CLOSURES UTILIZING TRAFFIC CONTROL DRUMS INSTEAD OF TEMPORARY PRECAST CONCRETE BARRIER. SEE SDD "TRAFFIC CONTROL, LANE CLOSURE" AND SDD "TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.".

TYPICAL SECTION FOR STAGE 3 OR OTHER WORK REQUIRING SHORT TERM SINGLE LANE CLOSURES ON STH 29 NOT SHOWN. MAINTAIN AT LEAST ONE LANE IN EACH DIRECTION ON STH 29 WITH 18-FEET CLEAR DURING SHOULDER WORK.

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	TRAFFIC CONTROL - TYPICAL SECTIONS	SHEET	E





TYPICAL FINISHED SECTION
OLD 29 DR
TEMPORARY CONNECTION
STA 11'T'+75 - STA 13'T'+64

NOTES

CONSTRUCT TEMPORARY CONNECTION PRIOR TO OPENING OLD 29 DRIVE THROUGH TO TRAFFIC AFTER STAGE 1 WORK IS COMPLETE

SEE CROSS SECTIONS FOR ADDITIONAL INFORMATION

USE EROSION CONTROL ITEMS PROVIDED IN CONTRACT TO INSTALL EROSION MAT AND DITCH CHECKS AS NECESSARY FOR THIS TEMPORARY CONNECTION

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	TRAFFIC CONTROL - TEMPORARY CONNECTION - STH 156/OLD 29	SHEET	E

2

2

S.T. AUGUSTINE RD

24'A'+00

22'A'+00

20'A'+00

18'A'+00

16'A'+00

EXISTING ST. AUGUSTINE RD

14'S+00

12'S+00

10'S+00

8'S+00

6'S+00

EXISTING STH 156

STH 29 WB

STH 29 EB

316'EB'+00

318'EB'+00

320'EB'+00

322'EB'+00

324'EB'+00

326'EB'+00

328'EB'+00

330'EB'+00

+85

+35

+00

+60

50'

6'T'+00

EXISTING OLD 29 DR

ROAD CLOSED
R11-2
48" X 30"

R3-1
36" X 36"

R3-2
36" X 36"

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

DIVIDED HIGHWAY
R6-3A
30" X 24"
(REMOVE OR COVER EXISTING R6-3 WITH R6-3A)

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

N

LEGEND

- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL BARRICADE TYPE III WITH/WITHOUT SIGN
- TRAFFIC CONTROL SIGN
- CONCRETE BARRIER TEMPORARY PRECAST
- CRASH CUSHION TEMPORARY
- WORK ZONE
- SEE TRAFFIC CONTROL - STAGE 1 OVERVIEW FOR ADVANCE WARNING AND ADDITIONAL TRAFFIC CONTROL DEVICES REQ'D

NOTES

REMOVE ANY EXISITNG SIGNING CONFLICTING WITH STAGE CLOSURES

SEE MISC QTYS AND STH 29 TRAFFIC TYPICAL SECTIONS FOR ANY TEMPORARY PAVEMENT MARKING

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	TRAFFIC CONTROL DETAIL - STH 29 - STAGE 1	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\025010_tc.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:100

2

2

ST. AUGUSTINE RD

224+00

EXISTING ST. AUGUSTINE RD

00+S40

00+S20

N

ROAD CLOSED
R11-2
48" X 30"

R3-2
36" X 36"

R3-1
36" X 36"

R3-1
36" X 36"

R3-2
36" X 36"

316'EB'+00

+90

318'EB'+00

320'EB'+00

322'EB'+00

324'EB'+00

+00

326'EB'+00

328'EB'+00

330'EB'+00

100' TYP

+85

+30

100' TYP

50' TYP

STH 29 WB

STH 29 EB

16'A'+00

16'K'+00

8'S'+00

6'S'+00

6'T'+00

EXISTING STH 156

EXISTING
OLD 29 DR

LEGEND

- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL BARRICADE TYPE III WITH/WITHOUT SIGN
- TRAFFIC CONTROL SIGN
- CONCRETE BARRIER TEMPORARY PRECAST
- CRASH CUSHION TEMPORARY
- WORK ZONE
- ✳✳ SEE TRAFFIC CONTROL - STAGE 2 OVERVIEW FOR ADVANCE WARNING AND ADDITIONAL TRAFFIC CONTROL DEVICES REQ'D

NOTES

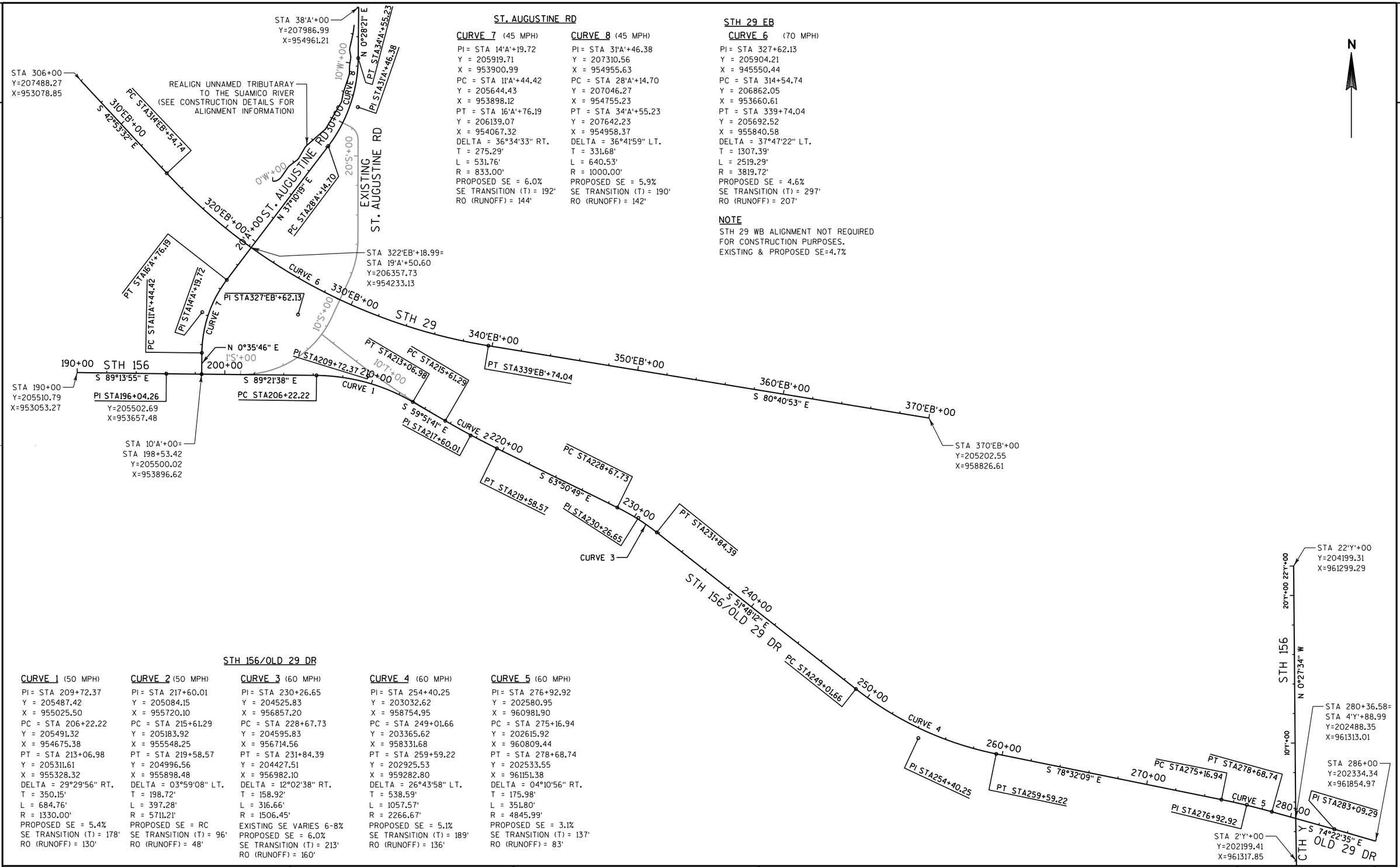
TRAFFIC CONTROL DETAIL FOR STAGE 2B NOT SHOWN. WORK ZONE AND CONCRETE BARRIER TEMPORARY PRECAST LOCATION TO REMAIN AS SHOWN IN STAGE 2A. SEE TRAFFIC CONTROL TYPICAL SECTIONS FOR TRAFFIC LANE, DRUM LOCATION, AND ADDITIONAL STAGE 2B INFORMATION.

MAINTAIN A MINIMUM OF 16' CLEAR WIDTH FOR EACH DIRECTION OF STH 29 TRAFFIC AT ALL TIMES.

REMOVE ANY EXISITNG SIGNING CONFLICTING WITH STAGE CLOSURES

SEE MISC OTYS AND STH 29 TRAFFIC TYPICAL SECTIONS FOR ANY TEMPORARY PAVEMENT MARKING

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	TRAFFIC CONTROL DETAIL - STH 29 - STAGE 2A	SHEET	E



ST. AUGUSTINE RD

CURVE 7 (45 MPH)
PI = STA 14'A'+19.72
Y = 205919.71
X = 953900.99
PC = STA 11'A'+44.42
Y = 205644.43
X = 953898.12
PT = STA 16'A'+76.19
Y = 206139.07
X = 954067.32
DELTA = 36°34'33" RT.
T = 275.29'
L = 531.76'
R = 833.00'
PROPOSED SE = 6.0%
SE TRANSITION (T) = 192'
RO (RUNOFF) = 144'

CURVE 8 (45 MPH)
PI = STA 31'A'+46.38
Y = 207310.56
X = 954955.63
PC = STA 28'A'+14.70
Y = 207046.27
X = 954755.23
PT = STA 34'A'+55.23
Y = 207642.23
X = 954958.37
DELTA = 36°41'59" LT.
T = 331.68'
L = 640.53'
R = 1000.00'
PROPOSED SE = 5.9%
SE TRANSITION (T) = 190'
RO (RUNOFF) = 142'

STH 29 EB

CURVE 6 (70 MPH)
PI = STA 327+62.13
Y = 205904.21
X = 945550.44
PC = STA 314+54.74
Y = 206862.05
X = 953660.61
PT = STA 339+74.04
Y = 205692.52
X = 955840.58
DELTA = 37°47'22" LT.
T = 1307.39'
L = 2519.29'
R = 3819.72'
PROPOSED SE = 4.6%
SE TRANSITION (T) = 297'
RO (RUNOFF) = 207'

NOTE
STH 29 WB ALIGNMENT NOT REQUIRED FOR CONSTRUCTION PURPOSES.
EXISTING & PROPOSED SE=4.7%

STH 156/OLD 29 DR

CURVE 1 (50 MPH)
PI = STA 209+72.37
Y = 205487.42
X = 955025.50
PC = STA 206+22.22
Y = 205491.32
X = 954675.38
PT = STA 213+06.98
Y = 205311.61
X = 955328.32
DELTA = 29°29'56" RT.
T = 350.15'
L = 684.76'
R = 1330.00'
PROPOSED SE = 5.4%
SE TRANSITION (T) = 178'
RO (RUNOFF) = 130'

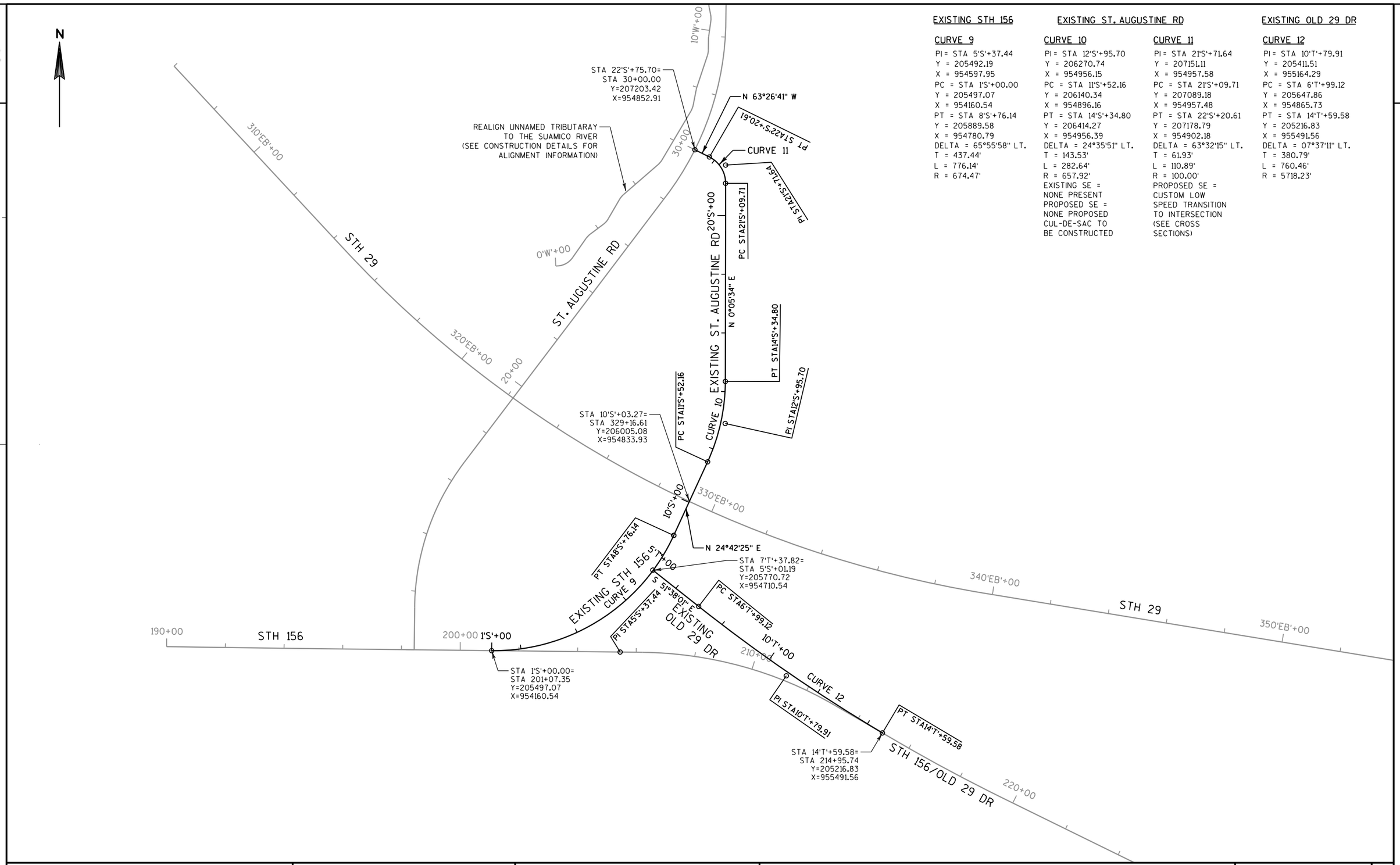
CURVE 2 (50 MPH)
PI = STA 217+60.01
Y = 205084.15
X = 955720.10
PC = STA 215+61.29
Y = 205183.92
X = 955548.25
PT = STA 219+58.57
Y = 204996.56
X = 955898.48
DELTA = 03°59'08" LT.
T = 198.72'
L = 397.28'
R = 5711.21'
PROPOSED SE = RC
SE TRANSITION (T) = 96'
RO (RUNOFF) = 48'

CURVE 3 (60 MPH)
PI = STA 230+26.65
Y = 204525.83
X = 956857.20
PC = STA 228+67.73
Y = 204595.83
X = 956714.56
PT = STA 231+84.39
Y = 204427.51
X = 956982.10
DELTA = 12°02'38" RT.
T = 158.92'
L = 316.66'
R = 1506.45'
EXISTING SE VARIES 6-8%
PROPOSED SE = 6.0%
SE TRANSITION (T) = 213'
RO (RUNOFF) = 160'

CURVE 4 (60 MPH)
PI = STA 254+40.25
Y = 203032.62
X = 958754.95
PC = STA 249+01.66
Y = 203365.62
X = 958331.68
PT = STA 259+59.22
Y = 202925.53
X = 959282.80
DELTA = 26°43'58" LT.
T = 538.59'
L = 1057.57'
R = 2266.67'
PROPOSED SE = 5.1%
SE TRANSITION (T) = 189'
RO (RUNOFF) = 136'

CURVE 5 (60 MPH)
PI = STA 276+92.92
Y = 202580.95
X = 960981.90
PC = STA 275+16.94
Y = 202615.92
X = 960809.44
PT = STA 278+68.74
Y = 202533.55
X = 961151.38
DELTA = 04°10'56" RT.
T = 175.98'
L = 351.80'
R = 4845.99'
PROPOSED SE = 3.1%
SE TRANSITION (T) = 137'
RO (RUNOFF) = 83'

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	ALIGNMENT DETAIL	SHEET	E



EXISTING STH 156

CURVE 9

PI = STA 5'S'+37.44
Y = 205492.19
X = 954597.95
PC = STA 1'S'+00.00
Y = 205497.07
X = 954160.54
PT = STA 8'S'+76.14
Y = 205889.58
X = 954780.79
DELTA = 65°55'58" LT.
T = 437.44'
L = 776.14'
R = 674.47'

EXISTING ST. AUGUSTINE RD

CURVE 10

PI = STA 12'S'+95.70
Y = 206270.74
X = 954956.15
PC = STA 11'S'+52.16
Y = 206140.34
X = 954896.16
PT = STA 14'S'+34.80
Y = 206414.27
X = 954956.39
DELTA = 24°35'51" LT.
T = 143.53'
L = 282.64'
R = 657.92'
EXISTING SE = NONE PRESENT
PROPOSED SE = NONE PROPOSED
CUL-DE-SAC TO BE CONSTRUCTED

CURVE 11

PI = STA 21'S'+71.64
Y = 207151.11
X = 954957.58
PC = STA 21'S'+09.71
Y = 207089.18
X = 954957.48
PT = STA 22'S'+20.61
Y = 207178.79
X = 954902.18
DELTA = 63°32'15" LT.
T = 61.93'
L = 110.89'
R = 100.00'
PROPOSED SE = CUSTOM LOW SPEED TRANSITION TO INTERSECTION (SEE CROSS SECTIONS)

EXISTING OLD 29 DR

CURVE 12

PI = STA 10'T'+79.91
Y = 205411.51
X = 955164.29
PC = STA 6'T'+99.12
Y = 205647.86
X = 954865.73
PT = STA 14'T'+59.58
Y = 205216.83
X = 955491.56
DELTA = 07°37'11" LT.
T = 380.79'
L = 760.46'
R = 5718.23'

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	ALIGNMENT DETAIL	SHEET	E

3

CLEARING AND GRUBBING ITEMS

STATION - STATION	LOCATION	201.0105 CLEARING STA	201.0205 GRUBBING STA
CAT 0010			
STH 156/OLD 29 DR			
198+00 - 200+00	RT	2	2
209+00 - 218+00	LT & RT	9	9
254+00 - 261+00	RT	5	5
ST. AUGUSTINE RD			
24'A'+00 - 25'A'+00	LT	1	1
31'A'+00 - 32'A'+00	LT & RT	1	1
TOTALS		18	18

REMOVING CONCRETE ITEMS

STATION	LOCATION	204.0100 PAVEMENT SY	204.0150 CURB & GUTTER LF	COMMENTS
CAT 0010				
STH 156/OLD 29 DR				
214+96 - 217+50	LT & RT	624	--	UNDERLYING PAVEMENT
253+89 - 260+54	LT & RT	1,626	--	UNDERLYING PAVEMENT
EXISTING ST. AUGUSTINE RD				
10'S'+98 - 11'S'+52	LT & RT	--	155	EXISTING ST. AUGUSTINE AT STH 29
STH 29				
323'EB'+50 - 330'EB'+85 (EB)	LT & RT	1,600	--	INCLUDES MEDIAN CURB AND GUTTER
327'EB'+46 - 334'EB'+83 (WB)	LT	1,300	--	INCLUDES MEDIAN CURB AND GUTTER
EXISTING STH 156				
9'S'+21 - 9'S'+67	LT & RT	--	126	EXISTING STH 156 AT STH 29
EXISTING OLD 29 DR				
5'T'+18 - 5'T'+79	LT & RT	--	134	EXISTING OLD 29 DR AT EXISTING STH 156
5'T'+68 - 14'T'+60	LT & RT	2,180	--	UNDERLYING PAVEMENT
TOTALS		7,330	415	

3

REMOVING SMALL PIPE CULVERTS

STATION	LOCATION	203.0100 EACH	FOR INFORMATION ONLY SIZE INCH	MATERIAL	LENGTH FT
CAT 0010					
STH 156/OLD 29 DR					
197+18	RT	1	18	STEEL	24
202+75	RT	1	18	STEEL	30
253+80	RT	1	18	STEEL	37
257+89	RT	1	12	STEEL	27
5'Y'+49	LT & RT	1	24X18	STEEL	101
CTH Y					
4'Y'+49	LT & RT	1	24X18	STEEL	60
ST. AUGUSTINE RD					
32'A'+22	LT	1	36	STEEL	20
32'A'+22	LT	1	36	STEEL	23
EXISTING ST. AUGUSTINE					
11'S'+59	LT & RT	1	18	STEEL	68
20'S'+33	RT	1	12	STEEL	19
EXISTING STH 156					
6'S'+73	LT	1	18	STEEL	36
7'S'+79	LT & RT	1	24	STEEL	86
EXISTING OLD 29 DR					
8'T'+44	RT	1	18	STEEL	44
TOTAL		13			

3

REMOVING ASPHALTIC SURFACE ITEMS

STATION - STATION	LOCATION	204.0110 ASPHALTIC SURFACE SY	204.0115 BUTT JOINTS SY	204.0125 MILLING TON
CAT 0010				
STH 156/OLD 29 DR				
217+50 - 253+89	LT & RT	--	--	860
260+54 - 276+25	LT & RT	--	--	370
8'Y'+50 - 12'Y'+92	LT & RT	--	7	135
EXISTING ST. AUGUSTINE RD				
13'S'+75 - 18'S'+70	LT & RT	--	--	120
PROJECT				
--	ANGLE DR	--	5	45
--	DRIVEWAYS	300	--	--
TOTALS		300	12	1,530

REMOVING DELINEATORS AND MARKERS

STATION - STATION	LOCATION	204.0180 EACH
CAT 0010		
STH 29		
316'EB'+00 - 331'EB'+00 (EB)	RT	4
321'EB'+00 - 336'EB'+00 (WB)	LT	4
TOTAL		8

REMOVING FENCE

STATION - STATION	LOCATION	204.0170 LF	COMMENTS
CAT 0010			
STH 156/OLD 29 DR			
276+61 - 9'Y'+71	LT	585	NW CORNER OF STH 156/OLD 29 DR/CTH Y
TOTAL		585	

REMOVING BUILDING AND SITE CLEARANCE ITEMS

STATION	LOCATION	204.0235.01 REMOVING BUILDING (PARCEL 13) LS	204.0240.01 SITE CLEARANCE LS	COMMENTS
CAT 0010				
STH 156/OLD 29 DR				
208+00	RT	1	1	INCLUDES ALL BUILDINGS ON PARCEL 13
TOTALS		1	1	

3

3

EARTHWORK SUMMARY

DIVISION	FROM/TO STATION	LOCATION	EXCAVATION COMMON (NOTE 1)			SALVAGED / UNUSEABLE PAVEMENT MATERIAL (NOTE 4)	AVAILABLE MATERIAL (NOTE 5)	REDUCED EBS IN FILL (6)	EXPANDED EBS BACKFILL (7)	UNEXPANDED FILL	EXPANDED FILL (NOTE 8)	MASS ORDINATE +/- (NOTE 9)	BORROW
			CUT (NOTE 2)	EBS (NOTE 3)				FACTOR 0.80	FACTOR 1.30		FACTOR 1.25		
ID 1058-25-70					EXCAVATION COMMON (ITEM 205.0100)				SELECT BORROW (ITEM 208.1100)				BORROW (ITEM 208.0100)
1	196+50 - 217+50	STH 156/OLD 29 DR (CURVE RECONSTRUCTION AND B-05-0435)	7,437	2,361	9,798	616	6,821	1,889	3,070	1,153	-920	7,741	
1	253+89 - 260+54	STH 156/OLD 29 DR (C-05-0151)	2,013	0	2,013	361	1,652	0	0	642	803	849	
1	276+25 - 286+59	STH 156/OLD 29 DR (CTH Y INTERSECTION)	3,916	0	3,916	562	3,354	0	0	81	102	3,252	
1	3'Y'+17 - 4'Y'+85	CTH Y (SOUTH OF STH 156)	756	0	756	91	665	0	0	29	36	629	
1	5'Y'+42 - 10'Y'+67	STH 156 (NORTH OF CTH Y & OLD 29 DR)	1,851	0	1,851	285	1,566	0	0	270	338	1,229	
1	10'A'+24 - 18'A'+75	ST. AUGUSTINE RD OVERPASS (SOUTH OF STH 29)	645	4,748	5,393	0	645	3,798	6,172	40,889	46,363	-45,718	
1	18'A'+75 - 19'A'+10	FILL IN FRONT OF SOUTH ABUTMENT (B-05-0129)	0	0	0	0	0	0	0	2,025	2,531	-2,531	
1	11'T'+75 - 13'T'+64	OLD 29 DR (TEMPORARY CONNECTION)	357	0	357	103	254	0	0	8	11	243	34,306
2	20'A'+51 - 20'A'+93	FILL IN FRONT OF NORTH ABUTMENT (B-05-0129)	0	0	0	0	0	0	0	2,375	2,968	-2,968	
2	20'A'+93 - 37'A'+00	ST. AUGUSTINE RD OVERPASS (NORTH OF STH 29)	5,669	9,531	15,200	197	5,472	7,625	12,390	82,535	93,638	-88,166	
2	11'S'+39 - 13'S'+75	EXISTING ST. AUGUSTINE RD (CUL-DE-SAC)	1,962	0	1,962	64	1,898	0	0	56	70	1,828	
2	18'S'+70 - 22'S'+59	EXISTING ST. AUGUSTINE RD (TIE TO ST. AUGUSTINE RD)	603	0	603	106	497	0	0	1,252	1,566	-1,068	
2	0'B'+00 - 14'B'+55	TEMPORARY STREAM BYPASS (CUT BYPASS)	1,364	0	1,364	88	1,276	0	0	489	611	665	
2	0'B'+00 - 14'B'+55	TEMPORARY STREAM DIVERSION (BACKFILL CUT AREA)	0	0	0	0	0	0	0	1,364	1,705	-1,705	91,415
3	316'EB'50 - 335'EB'+09	STH 29 (TURN LANE AND MEDIAN REMOVAL)	5,504	0	5,504	851	4,653	0	0	558	697	3,956	
3	2'S'+59 - 8'S'+92	EXISTING STH 156 (REMOVAL)	4,601	0	4,601	344	4,257	0	0	345	431	3,826	
3	5'T'+68 - 9'T'+37	EXISTING OLD 29 DR (REMOVAL)	974	0	974	200	774	0	0	679	849	-75	0
TOTALS			37,652	16,640	54,292	3,868	33,784	13,312	21,633	134,751	151,798	-118,014	125,721

1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100
2) SALVAGED/UNSUABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
3) EBS EXCAVATION TO BE BACKFILLED WITH SELECT BORROW MATERIAL.
4) SALVAGED/UNUSABLE PAVEMENT MATERIAL
5) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSUABLE PAVEMENT MATERIAL
6) REDUCED EBS IN FILL - EXCAVATED EBS MATERIAL IS USUABLE IN FILLS OUTSIDE THE 1:1 SLOPE. EBS IN FILL REDUCTION FACTOR = 0.8
7) EXPANDED EBS BACKFILL - THIS IS TO BE FILLED WITH SELECT BORROW MATERIAL. EBS BACKFILL FACTOR = 1.3. ITEM NUMBER 208.1100
8) EXPANDED FILL. FACTOR = 1.25; EXPANDED FILL = (UNEXPANDED FILL - REDUCED EBS) * FILL FACTOR
9) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. INUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.
10) DIVISION 3 MATERIAL COULD BE USED IN DIVISION 1 OR 2 IF APPROVED BY THE ENGINEER.

PREPARE FOUNDATION ITEMS

STATION - STATION	LOCATION	211.0100.01 ASPHALTIC PAVING (1058-25-70) LS	211.0400 ASPHALTIC SHOULDERS STA
CAT 0010			
STH 156/OLD 29 DR			
217+50 - 253+89	LT & RT	--	74
260+54 - 276+25	LT & RT	--	34
PROJECT			
PROJECT	LT & RT	1	--
TOTALS		1	108

SHAPING SHOULDERS

STATION - STATION	LOCATION	305.0500 STA
CAT 0010		
STH 156/OLD 29 DR		
8'Y'+50 - 10'Y'+67	RT	3
10'Y'+67 - 12'Y'+92	LT & RT	5
EXISTING ST. AUGUSTINE RD		
13'S'+75 - 18'S'+70	LT & RT	10
TOTAL		18

NOTE:
NOT INCLUDED IN PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS AREAS AND RECONSTRUCTION AREAS

BASE AGGREGATE DENSE ITEMS

STATION - STATION	LOCATION	305.0110 3/4-INCH TON	305.0120 1 1/4-INCH TON
CAT 0010			
STH 156/OLD 29 DR			
196+50 - 280+37	LT & RT	1,010	11,150
4'Y'+89 - 12'Y'+92	LT & RT	130	2,250
OLD 29 DR			
280+37 - 286+59	LT & RT	100	1,740
CTH Y			
3'Y'+17 - 4'Y'+89	LT & RT	20	620
ST. AUGUSTINE RD			
10'A'+24 - 18'A'+75	LT & RT	180	1,780
20'A'+92 - 37'A'+00	LT & RT	520	3,150
EXISTING ST. AUGUSTINE RD			
12'S'+50 - 22'S'+60	LT & RT	150	1,360
STH 29			
319'EB'+24 - 330'EB'+85 (EB)	LT & RT	950	--
319'EB'+24 - 334'EB'+83 (WB)	LT	1,000	--
EXISTING OLD 29 DR TEMPORARY CONNECTON			
11'T'+75 - 13'T'+64	LT & RT	50	650
PROJECT			
DRIVEWAYS	LT & RT	420	60
TEMPORARY LOCAL TRAFFIC MANAGEMENT	LT & RT	--	500
TOTALS		4,530	23,260

SELECT CRUSHED MATERIAL

STATION - STATION	LOCATION	312.0110 CY	COMMENTS
CAT 0010			
STREAM REALIGNMENT			
0'W'0+00 - 12'W'+61	LT & RT	120	GRAVEL RIFFLES
TOTAL		120	

CONCRETE ITEMS

STATION - STATION	LOCATION	405.0100 COLORING CONCRETE WISDOT RED CY	416.0512 CONCRETE TRUCK APRON 12-INCH SY	416.1010 CONCRETE SURFACE DRAINS CY	416.0610 DRILLED TIE BARS EACH	620.0300 CONCRETE MEDIAN SLOPED NOSE SF	COMMENTS
CAT 0010							
STH 156/OLD 29 DR							
5'Y'+14 - 5'Y'+48	LT	13	38	--	--	90	ISLAND
5'Y'+14 - 6'Y'+45	LT	108	327	--	--	--	NW CORNER
OLD 29 DR							
280+67 - 282+11	LT	39	115	--	--	90	MEDIAN ISLAND
ST. AUGUSTINE RD							
21'A'+25	LT & RT	--	--	6	14	--	B-58-129
TOTALS		160	480	6	14	180	

HMA AND ASPHALTIC ITEMS

STATION - STATION	LOCATION	450.4000 HMA COLD WEATHER PAVING TON	455.0605 TACK COAT GAL	460.5223 HMA PAVEMENT 3 LT 58-28 S TON	460.5224 HMA PAVEMENT 4 LT 58-28 S TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	465.0125 ASPHALTIC SURFACE TEMPORARY TON	465.0315 ASPHALTIC FLUMES SY	465.0400 ASPHALTIC SHOULDER RUMBLE STRIPS LF
CAT 0010									
STH 156/OLD 29 DR									
196+50 - 280+37	LT & RT	--	2,366	2,750	2,900	--	--	--	--
4'Y'+89 - 12'Y'+92	LT & RT	--	353	450	400	--	--	25	--
OLD 29 DR									
280+37 - 286+59	LT & RT	--	194	350	200	--	--	--	--
CTH Y									
3'Y'+17 - 4'Y'+89	LT & RT	--	80	140	80	--	--	25	--
ST. AUGUSTINE RD									
10'A'+00 - 18'A'+75	LT & RT	--	288	360	290	--	--	30	--
20'A'+92 - 37'A'+00	LT & RT	--	417	515	425	--	--	--	--
EXISTING OLD 29 DR TEMPORARY CONNECTION									
11'T'+75 - 13'T'+64	LT & RT	--	--	--	--	--	150	--	--
EXISTING ST. AUGUSTINE RD									
12'S'+50 - 22'S'+60	LT & RT	--	312	280	345	--	--	--	--
STH 29									
319'EB'+24 - 330'EB+85 (EB)	LT & RT	--	--	--	200	--	--	--	1,885
319'EB'+24 - 334'EB'+83 (WB)	LT	--	--	--	195	--	--	--	2,010
PROJECT									
--	ANGLE DR	--	30	--	45	--	--	--	--
--	DRIVEWAYS	--	--	--	--	65	--	--	--
UNDISTRIBUTED	LT & RT	5,365							
TOTALS		5,365	4,040	4,845	5,080	65	150	80	3,895

3

DRAINAGE PIPE AND APRON ENDWALL ITEMS

STATION	LOCATION	STEEL MIN. THICKNESS INCH	521.0118 CULVERT PIPE CORRUGATED STEEL 18-INCH LF	521.0124 CULVERT PIPE CORRUGATED STEEL 24-INCH LF	521.0757 PIPE ARCH CORRUGATED STEEL 57X38-INCH LF	521.1257 APRON ENDWALLS FOR PIPE ARCH STEEL 57X38-INCH EACH	521.1518 APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 18-INCH 6 TO 1 EACH	521.1524 APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 24-INCH 6 TO 1 EACH	522.0124 CULVERT PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	522.0324 CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH LF	522.1012 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 12-INCH EACH	522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	523.0424 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 24X38-INCH LF	523.0524 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 24X38-INCH EACH	608.0412 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 12-INCH LF	**PIPE JOINT TIES EACH
CAT 0010																
STH 156/OLD 29 DR																
197+18	RT	0.064	38	--	--	--	2	--	--	--	--	--	--	--	--	--
204+27	LT	0.064	--	48	--	--	--	2	--	--	--	--	--	--	--	--
204+27	RT	0.064	--	38	--	--	--	2	--	--	--	--	--	--	--	--
210+52	LT	0.064	--	38	--	--	--	2	--	--	--	--	--	--	--	--
253+80	RT	0.064	36	--	--	--	2	--	--	--	--	--	--	--	--	--
257+95	RT	0.064	--	40	--	--	--	2	--	--	--	--	--	--	--	--
6'Y'+07	LT & RT	0.064	--	--	--	--	--	--	--	--	--	--	114	2	--	12
OLD 29 DR																
282+00	LT	--	--	--	--	--	--	--	--	--	1	--	--	--	42	6
CTH Y																
4'Y'+38	LT & RT	--	--	--	--	--	--	--	--	--	--	--	144	2	--	12
ST. AUGUSTINE RD																
16'A'+50	LT & RT	--	--	--	--	--	--	--	--	168	--	2	--	--	--	12
36'A'+00	LT	0.109	--	--	200	4	--	--	--	--	--	--	--	--	--	--
EXISTING ST. AUGUSTINE RD																
19'S'+00	RT	0.064	--	46	--	--	--	2	--	--	--	--	--	--	--	--
22'S'+32	LT & RT	--	--	--	--	--	--	--	142	--	--	2	--	--	--	12
TOTALS			74	210	200	4	4	10	142	168	1	4	258	4	42	54

NOTES:
**NON BID ITEM, FOR INFORMATION ONLY. TIE LAST THREE JOINTS.
ADDITIONAL APRON ENDWALL ITEMS ARE SHOWN ELSEWHERE (SEE PIPE UNDERDRAIN ITEMS)

3

CONCRETE CURB & GUTTER ITEMS

STATION - STATION	LOCATION	601.0557 6-INCH SLOPED 36-INCH TYPE D LF	601.0582 4-INCH SLOPED 36-INCH TYPE T LF	COMMENTS
CAT 0010				
STH 156/OLD 29 DR				
5'Y'+14 - 6'Y'+45	LT	--	92	ISLAND
5'Y'+14 - 6'Y'+45	LT	--	202	NW CORNER
5'Y'+29 - 5'Y'+61	RT	40	--	NE CORNER
OLD 29 DR				
280+69 - 282+11	LT	--	301	MEDIAN ISLAND
CTH Y				
4'Y'+06 - 4'Y'+68	LT & RT	160	--	
ST. AUGUSTINE RD				
10'A'+23 - 10'A'+84	LT & RT	151	--	
TOTALS		351	595	

TEMPORARY DIVERSION CHANNEL ITEMS

LOCATION	606.0100 RIPRAP LIGHT CY	628.5505 POLYETHYLENE SHEETING SY
CAT 0010		
STH 156/OLD 29 DR		
STRUCTURE B-5-435 **	40	1,400
STRUCTURE C-5-151 **	40	1,400
ST. AUGUSTINE RD		
TEMPORARY BYPASS OF STREAM REALIGNMENT ***	170	6,200
TOTALS	250	9,000

NOTES:
** ESTIMATED EXCAVATION IS SHOWN ON THE ROADWAY PLANS AND IS INCIDENTAL TO THE ITEM "EXCAVATION FOR STRUCTURES" (SEE STRUCTURE LANS)
*** EXCAVATION FOR THE TEMPORARY BYPASS OF THE ST. AUGSTINE STREAM REALIGNMENT IS PAID BY CROSS SECTION VOLUME

3

CONCRETE BARRIER TEMPORARY PRECAST ITEMS

STATION - STATION	LOCATION	STAGE	603.8000 DELIVERED LF	603.8125 INSTALLED LF
CAT 0010				
STH 29				
316'EB'+85 - 327'EB'+60 (EB & WB)	LT & RT	1	1,400	1,400
316'EB'+90 - 326'EB'+30 (EB & WB)	LT & RT	2	1,275	1,275
TOTALS			2,675	2,675

RIPRAP AND GEOTEXTILE ITEMS

STATION	LOCATION	606.0200 RIPRAP MEDIUM CY	645.0120* GEOTEXTILE TYPE HR SY
CAT 0010			
ST. AUGUSTINE RD			
21'A'+25	LT & RT	10	30
TOTALS		10	30

*ADDITIONAL QUANTITIES SHOWN ON STRUCTURE PLANS

INLETS AND INLET COVERS

STATION	LOCATION	611.0652 INLET COVERS TYPE T EACH	611.3225 INLETS 2 X 2.5-FT EACH
CAT 0010			
OLD 29 DR			
282+00	LT	2	2
TOTALS		2	2

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	MISCELLANEOUS QUANTITIES	SHEET	E

3

PIPE UNDERDRAIN ITEMS

STATION	LOCATION	521.1012 APRON ENDWALLS FOR CULVERT PIPE STEEL 12-INCH EACH	612.0206 UNPERFORATED 6-INCH LF	612.0212 UNPERFORATED 12-INCH LF	612.0806 APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE 6-INCH EACH	646.0805.S PAVEMENT MARKING OUTFALL EACH
CAT 0010						
ST. AUGUSTINE RD						
21'A'+25	LT	1	--	85	--	--
21'A'+25	RT	1	--	82	--	--
S. ABUTMENT B-05-0129	LT OR RT	--	--	--	1	--
N. ABUTMENT B-05-0129	LT OR RT	--	--	--	1	--
STH 29						
327'EB'+00 (EB)	LT	--	15	--	1	1
332'EB'+00 (EB)	LT	--	15	--	1	1
333'EB'+00 (WB)	LT	--	15	--	1	1
TOTALS		2	45	167	5	3

NOTES:
THE 6-INCH UNPERFORATED PIPE UNDERDRAIN IS FOR ADJUSTING ANY OUTFALLS ALONG STH 29
SEE STRUCTURE PLANS FOR ABUTMENT UNDERDRAIN ITEMS

DRAIN TILE EXPLORATION

STATION	LOCATION	612.0700 LF
CAT 0010		
STH 156		
198+17	RT	10
ST. AUGUSTINE RD		
10'A'+00 - 19'A'+00	LT & RT	300
21'A'+00 - 37'A'+00	LT & RT	400
TOTAL		710

CRASH CUSHIONS TEMPORARY

STATION	LOCATION	STAGE	614.0905 EACH	BACK WIDTH REQUIREMENT FT	CRASH TEST CONDITION	OBJECT MARKING PATTERN	TRAFFIC DIRECTION	CRASH CUSHION SHIELDS
CAT 1000								
STH 29								
316'EB'+90 (EB)	RT	1	1	2	TL-3	OM-3R	UNDIRECTIONAL	EB OUTSIDE/SOUTH ABUTMENT B-5-129
327'EB'+60 (WB)	LT	1	1	2	TL-3	OM-3R	UNDIRECTIONAL	WB OUTSIDE/NORTH ABUTMENT B-5-129
316'EB'+90 (EB)	LT	2	1	2	TL-3	OM-3C	UNDIRECTIONAL	EB MEDIAN/PIER B-5-129
326'EB'+30 (WB)	LT	2	1	2	TL-3	OM-3C	UNDIRECTIONAL	WB MEDIAN/PIER B-5-129
TOTAL			4					

FENCE SAFETY

STATION	LOCATION	616.0700.S LF	COMMENTS
CAT 0010			
PROJECT			
8'S'+00	LT	50	FENCE TO PROTECT NGS MONUMENT
UNDISTRIBUTED	LT & RT	100	
TOTAL		150	

STEEL PLATE BEAM GUARD AND GUARDRAIL ITEMS

STATION - STATION	LOCATION	614.0220 STEEL THRIE BEAM BULLNOSE TERMINAL EACH	614.0230 STEEL THRIE BEAM LF	614.0305 STEEL PLATE BEAM GUARD CLASS A LF	614.0340 STEEL PLATE BEAM GUARD OVER LOW-FILL CULVERTS CLASS A LF	614.0345 STEEL PLATE BEAM GUARD SHORT RADIUS LF	614.0370 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL EACH	614.0390 STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL EACH	614.0397 GUARDRAIL MOW STRIP EMULSIFIED ASPHALT SY	614.0920 SALVAGED RAIL LF	614.0925 SALVAGED GUARDRAIL END TREATMENTS EACH	614.2300 MGS GUARDRAIL 3 LF	614.2340 MGS GUARDRAIL 3 L LF	614.2500 MGS THRIE BEAM TRANSITION LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH
CAT 0010															
STH 156/OLD 29 DR															
214+48 - 217+15	RT	--	--	--	--	--	--	--	--	170	2	50	112.5	--	2
214+79 - 217+48	LT	--	--	--	--	--	--	--	--	165	2	50	112.5	--	2
255+79 - 257+84	RT	--	--	37.5	100	35	1	1	126	145	2	--	--	--	--
256+10 - 258+93	LT	--	--	--	--	--	--	--	--	135	2	62.5	112.5	--	2
258+25 - 259+42	RT	--	--	--	--	--	--	--	--	--	--	12.5	--	--	2
ST. AUGUSTINE RD															
17'A'+19 - 18'A'+61	RT	--	--	--	--	--	--	--	--	--	--	50	--	39.4	1
17'A'+69 - 18'A'+61	LT	--	--	--	--	--	--	--	--	--	--	--	--	39.4	1
21'A'+06 - 22'A'+49	LT	--	--	--	--	--	--	--	--	--	--	50	--	39.4	1
21'A'+06 - 21'A'+99	RT	--	--	--	--	--	--	--	--	--	--	--	--	39.4	1
STH 29															
321'EB'+35 - 323'EB'+05 (MEDIAN)	LT	2	125	--	--	--	--	--	--	--	--	--	--	--	--
TOTALS		2	125	37.5	100	35	1	1	126	615	8	275.0	337.5	157.6	12

NOTE:
SHORT RADIUS IS INSTALLED AT A 100-DEGREE ANGLE

MONUMENT ITEMS

LOCATION	SPV.0105.01 VERIFY AND REPLACE EXISTING PROPERTY MONUMENTS PROJECT 1058-25-70 LS	SPV.0105.03 RESEARCH AND LOCATE EXISTING PROPERTY MONUMENTS PROJECT 1058-25-70 LS
CAT 0010		
PROJECT	1	1
TOTALS	1	1

DUST CONTROL AND WATER

	623.0200 DUST CONTROL SURFACE TREATMENT SY	624.0100 WATER MGAL
CAT 0010		
PROJECT	30,000	950
TOTALS	30,000	950

NOTE:
WATER IS FOR BASE AGGREGATE AND EMBANKMENT COMPACTION AND ADDITIONAL DUST CONTROL

MOBILIZATIONS EROSION CONTROL

	628.1905 EACH	628.1910 EMERGENCY EACH
CAT 0010		
PROJECT	15	10
TOTALS	15	10

3

3

EROSION CONTROL ITEMS

STATION - STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.2004 EROSION MAT CLASS I TYPE B SY	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	628.2027 EROSION MAT CLASS II TYPE C SY	628.6510 SOIL STABILIZER TYPE B ACRE	628.7005 INLET PROTECTION TYPE A EACH	628.7020 INLET PROTECTION TYPE D EACH	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH	628.7560 TRACKING PADS EACH	628.7570 ROCK BAGS EACH
CAT 0010													
STH 156/OLD 29 DR													
196+50 - 217+50	LT & RT	1,900	1,900	3,010	--	1,625	--	--	--	230	16	--	60
253+89 - 260+54	LT & RT	600	600	980	--	905	--	--	--	110	8	--	45
276+25 - 280+37	LT & RT	575	575	525	--	--	--	--	--	25	--	--	15
4'Y'+89 - 10'Y'+67	LT & RT	730	730	980	--	--	--	--	--	40	8	--	--
OLD 29 DR													
280+37 - 286+59	LT & RT	350	350	630	--	--	--	2	2	75	--	--	15
CTH Y													
3'Y'+17 - 4'Y'+89	LT & RT	135	135	395	--	--	--	--	--	15	8	--	--
ST. AUGUSTINE RD													
10'A'+24 - 19'A'+12	LT & RT	350	350	10,600	--	--	2.5	--	--	100	4	--	--
20'A'+49 - 37'A'+00	LT & RT	300	300	15,305	4,015	--	5.0	--	--	135	--	--	--
EXISTING ST. AUGUSTINE RD													
11'S'+50 - 13'S'+75	LT & RT	350	350	535	--	--	--	--	--	40	--	--	--
18'S'+70 - 22'S'+60	LT & RT	--	--	270	--	--	--	--	--	15	8	--	--
STH 29													
316'EB+50 - 335'EB'+10	LT & RT	450	450	18,225	--	30	--	2	--	325	--	--	30
EXISTING STH 156													
4'S'+00 - 9'S'+00	LT & RT	--	--	--	--	--	--	--	--	40	--	--	--
EXISTING OLD 29 DR													
5'T'+00 - 10'T'+00	LT & RT	--	--	--	--	--	--	--	--	50	4	--	--
TEMPORARY BYPASS OF STREAM REALIGNMENT													
0'B'+00 - 14'B'+00	LT & RT	2,800	2,800	--	--	--	--	--	--	--	--	--	--
UNDISTRIBUTED	--	2,460	2,460	12,695	1,010	640	1.5	1	1	300	14	4	85
TOTALS		11,000	11,000	64,150	5,025	3,200	9.0	5	3	1,500	70	4	250

FINISHING ITEMS

STATION - STATION	LOCATION	625.0100 TOPSOIL SY	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0130 SEEDING MIXTURE NO. 30 LB	630.0140 SEEDING MIXTURE NO. 40 LB	630.0160 SEEDING MIXTURE NO. 60 LB	630.0200 SEEDING TEMPORARY LB	630.0300 SEEDING BORROW PIT LB	631.0300 SOD WATER MGAL	SPV.0030.01 FERTILIZER FOR LAWN TYPE TURF CWT	SPV. 0180.01 PREPARING TOPSOIL FOR LAWN TYPE TURF SY
CAT 0010														
STH 156/OLD 29														
196+50 - 217+50	LT & RT	--	12,340	7,705	7.8	150	125	8	--	--	--	10	0.3	445
253+89 - 260+54	LT & RT	--	3,345	1,460	2.1	30	40	7	--	--	--	10	0.2	390
276+25 - 280+37	LT & RT	--	2,205	1,680	1.4	35	20	--	--	--	--	--	--	--
4'Y'+89 - 10'Y'+67	LT & RT	--	2,345	1,365	1.5	25	30	--	--	--	--	--	--	--
OLD 29 DR														
280+37 - 286+59	LT & RT	--	2,050	1,420	1.3	25	20	--	--	--	--	--	--	--
CTH Y														
3'Y'+17 - 4'Y'+89	LT & RT	--	880	485	0.6	10	10	--	--	--	--	--	--	--
ST. AUGUSTINE RD														
10'A'+24 - 19'A'+12	LT & RT	--	12,550	1,950	7.9	225	80	--	--	--	--	--	--	--
20'A'+49 - 37'A'+00	LT & RT	--	25,230	1,380	7.6	255	50	--	60	--	--	275	--	--
EXISTING ST. AUGUSTINE RD														
11'S'+50 - 13'S'+75	LT & RT	--	2,035	1,500	1.3	40	10	--	--	--	--	--	--	--
18'S'+70 - 22'S'+60	LT & RT	--	2,475	2,355	1.6	40	20	--	--	--	--	--	--	--
STH 29														
316'EB+50 - 335'EB'+10	LT & RT	--	18,225	--	11.5	240	175	--	--	--	--	--	--	--
EXISTING STH 156														
4'S'+00 - 9'S'+00	LT & RT	3,320	3,040	6,360	4.0	175	--	--	--	--	--	--	--	--
EXISTING OLD 29 DR														
5'T'+00 - 10'T'+00	LT & RT	2,640	2,110	4,750	3.0	130	--	--	--	--	--	--	--	--
UNDISTRIBUTED	--	1,490	22,220	8,115	13.5	370	145	5	15	300	700	105	0.5	215
TOTALS		7,450	111,050	40,525	65.0	1,750	725	20	75	300	700	400	1.0	1,050

NOTES:
SEEDING MIXTURE NO. 30 USED ON SLOPES WITHIN 15-FEET OF SHOULDER
SEEDING MIXTURE NO. 40 USED FOR LAWN TYPE TURF AREAS FOR RESIDENTIAL AREAS ALONG STH 156/OLD 29 DR
SEEDING MIXTURE NO. 60 USED ON SLOPES IN THE STREAM REALIGNMENT
SOD WATER IS FOR ESTABLISHING LAWN TYPE AREAS, SENSITIVE AREAS REQUIRING IMMEDIATE GROWTH, TEMPORARY DIVERSION CHANNEL, OR OTHERAREAS AS DIRECTED BY THE ENGINEER

3

DELINEATOR ITEMS

STATION - STATION	LOCATION	633.0100 POSTS STEEL EACH	633.0500 REFLECTORS EACH
CAT 0010			
STH 29			
316'EB'+00 - 331'EB'+00 (EB)	RT	4	4
321'EB'+00 - 336'EB'+00 (WB)	LT	4	4
TOTALS		8	8

3

MARKERS ITEMS

STATION	LOCATION	633.5100 ROW EACH	633.5200 CULVERT END EACH	COMMENTS
CAT 0010				
STH 156				
6'Y'+07	LT & RT	--	2	
CTH Y				
4'Y'+38	LT & RT	--	2	
ST. AUGUSTINE RD				
16'A'+50	LT & RT	--	2	
18'A'+65	RT	--	1	PIPE UNDERDRAIN B-58-129
21'A'+02	RT	--	1	PIPE UNDERDRAIN B-58-129
21'A'+25	LT & RT	--	2	SURFACE DRAIN OUTFALLS
EXISTING ST. AUGUSTINE RD				
22'S'+32	LT & RT	--	2	
PROJECT				
PROJECT	LT & RT	65	--	
TOTALS		65	12	

TYPE II SIGNS AND SUPPORTS

SIGN NO.	SIGN CODE	W	X	H	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0612 POSTS WOOD 4x6x12 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	634.0620 POSTS WOOD 4x6x20 EACH	634.0805 POSTS TUBULAR STEEL 2x2x5 EACH	634.0811 POSTS TUBULAR STEEL 2x2x11 EACH	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	COMMENTS
CAT 0010																
1-1	W1-7	48	X	24	--	8.00	--	--	1	--	--	--	--	--	--	
1-2	--	--	X	--	--	--	--	--	--	--	--	--	--	1	2	
1-3	J4-1	24	X	36	6.00	--	--	--	1	--	--	--	--	--	--	
1-4	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	
1-5	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	
1-6	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	
1-7	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	
1-8	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	
1-9	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	
1-10	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	
1-11	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	
1-12	W1-6	48	X	24	--	8.00	--	1	--	--	--	--	--	--	--	
2-1	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	
2-2	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	
2-3	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	
2-4	W14-3	48	X	36	--	6.00	--	--	1	--	--	--	--	--	--	
2-5	R2-1	24	X	30	5.00	--	--	--	--	--	--	--	--	--	--	45 MPH, MOUNT ON BACK OF 2-4
2-6	R2-1	24	X	30	5.00	--	--	--	1	--	--	--	--	--	--	45 MPH
2-7	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	
2-8	W14-3	48	X	36	--	6.00	--	--	1	--	--	--	--	--	--	
2-9	R1-1	30	X	30	5.18	--	--	--	1	--	--	--	--	1	1	RD NAME SIGN REMOVAL BY MUNICIPALITY
2-10	W1-6	48	X	24	--	8.00	--	1	--	--	--	--	--	--	--	
3-1	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	
3-2	W14-3	48	X	36	--	6.00	--	--	1	--	--	--	--	--	--	
4-1	R2-1	24	X	30	5.00	--	--	--	1	--	--	--	--	--	--	45 MPH
4-2	R2-1	24	X	30	5.00	--	--	--	1	--	--	--	--	--	--	45 MPH
4-3	W14-3	48	X	36	--	6.00	--	--	1	--	--	--	--	--	--	
5-1	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	
5-2	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	
5-3	W14-3	48	X	36	--	6.00	--	--	1	--	--	--	--	--	--	
6-1	W3-5	36	X	36	--	9.00	--	--	1	--	--	--	--	--	--	35 MPH
6-2	R2-1	24	X	30	5.00	--	--	--	1	--	--	--	--	--	--	45 MPH
6-3	J1-1	24	X	39	6.50	--	--	--	1	--	--	--	--	--	--	
6-4	J2-1	24	X	57	9.50	--	--	--	--	1	--	--	--	--	--	
6-5	D1-2	72	X	24	12.00	--	--	1	1	--	--	--	--	--	--	
6-6	J4-1	24	X	36	6.00	--	--	--	1	--	--	--	--	--	--	
6-7	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	
6-8	J3-2	48	X	57	19.00	--	--	--	--	1	--	--	--	--	--	
6-10	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	
6-11	R1-1	36	X	36	7.46	--	--	--	1	--	--	--	--	--	--	
6-12	J3-2	48	X	57	19.00	--	--	--	--	1	--	--	--	--	--	
6-13	M1-5A	24	X	24	4.00	--	--	1	--	--	--	--	--	--	--	
6-14	J2-2	48	X	57	19.00	--	--	--	--	1	--	--	--	--	--	
6-15	J1-2	48	X	39	13.00	--	--	--	1	--	--	--	--	--	--	
6-16	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	
6-17	R2-1	24	X	30	5.00	--	--	--	1	--	--	--	--	--	--	35 MPH
6-18	R10-64	30	X	36	7.50	--	--	--	1	--	--	--	--	--	--	
6-19	J1-2	48	X	39	13.00	--	--	--	1	--	--	--	--	--	--	
6-20	J2-3	72	X	57	28.50	--	--	--	--	2	--	--	--	--	--	
6-21	R1-2	36	X	31	3.88	--	--	--	1	--	--	--	--	--	--	
SUBTOTALS					209.52	63.00	0	4	22	6	0	0	0	20	21	

NOTE: SIGN 6-9 NUMBER NOT USED

TYPE II SIGNS AND SUPPORTS (CONTINUED)

SIGN NO.	SIGN CODE	W	X	H	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0612 POSTS WOOD 4x6x12 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	634.0620 POSTS WOOD 4x6x20 EACH	634.0805 POSTS TUBULAR STEEL 2x2x5 EACH	634.0811 POSTS TUBULAR STEEL 2x2x11 EACH	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	COMMENTS
CAT 0010																
6-22	J3-1	24	X	57	9.50	--	--	--	--	1	--	--	--	--	--	
6-23	R1-1	36	X	36	7.46	--	--	--	--	--	--	1	--	--	--	
6-24	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	
6-25	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	
6-26	W12-1D	24	X	24	--	4.00	--	--	--	--	1	--	--	--	--	2' MOUNTING HEIGHT
6-27	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	
6-28	R1-1	36	X	36	7.46	--	--	--	--	--	--	1	--	--	--	
6-29	J3-2	48	X	57	19.00	--	--	--	--	1	--	--	--	--	--	
6-30	J4-1	24	X	36	6.00	--	--	--	1	--	--	--	--	--	--	
6-31	W6-1	36	X	36	--	9.00	--	--	1	--	--	--	--	1	1	
6-32	R2-1	24	X	30	5.00	--	--	--	1	--	--	--	--	--	--	55 MPH
6-33	D1-1	78	X	15	8.13	--	--	1	1	--	--	--	--	--	--	
6-34	J2-1	24	X	57	9.50	--	--	--	--	1	--	--	--	--	--	
6-35	J1-1	24	X	39	6.50	--	--	--	1	--	--	--	--	--	--	
7-1	R1-1	30	X	30	6.25	--	--	1	--	--	--	--	--	--	--	
7-2	W1-6	48	X	24	--	8.00	--	1	--	--	--	--	--	--	--	
7-3	W3-1	36	X	36	--	9.00	--	1	--	--	--	--	--	--	--	
7-4	W5-52L	12	X	36	--	3.00	--	1	--	--	--	--	--	--	--	
7-5	W5-52R	12	X	36	--	3.00	--	1	--	--	--	--	--	--	--	
7-6	W5-52R	12	X	36	--	3.00	--	1	--	--	--	--	--	--	--	
7-7	W5-52L	12	X	36	--	3.00	--	1	--	--	--	--	--	--	--	
7-8	W1-2L	30	X	30	--	6.25	--	1	--	--	--	--	--	--	--	
8-1	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	
8-2	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	
8-3	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	
8-4	W5-56	18	X	18	--	2.25	1	--	--	--	--	--	--	--	--	4' MOUNTING HEIGHT
8-5	W5-56	18	X	18	--	2.25	1	--	--	--	--	--	--	--	--	4' MOUNTING HEIGHT
8-6	W5-56	18	X	18	--	2.25	1	--	--	--	--	--	--	--	--	4' MOUNTING HEIGHT
8-7	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	
8-8	W14-1	30	X	30	--	6.25	--	1	--	--	--	--	--	--	--	
8-9	R1-1	30	X	30	6.25	--	--	1	--	--	--	--	--	--	--	
9-1	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	
9-4	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	
9-5	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	
9-6	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	
9-7	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	
9-8	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	
9-9	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	
9-10	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	
9-11	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	
9-12	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	
9-13	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	
9-15	--	--	X	--	--	--	--	--	--	--	--	--	--	1	2	
9-16	--	--	X	--	--	--	--	--	--	--	--	--	--	1	3	
9-17	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	
9-18	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	
9-19	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	
SUBTOTALS					91.05	61.25	3	11	5	3	1	2	0	24	27	

3

TYPE II SIGNS AND SUPPORTS (CONTINUED)

SIGN NO.	SIGN CODE	W	X	H	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0612 POSTS WOOD 4x6x12 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	634.0620 POSTS WOOD 4x6x20 EACH	634.0805 POSTS TUBULAR STEEL 2x2x5 EACH	634.0811 POSTS TUBULAR STEEL 2x2x11 EACH	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	COMMENTS
CAT 0010																
11-1	D1-2	78	X	30	16.25	--	--	--	2	--	--	--	--	--	--	
11-2	--	--	X	--	--	--	--	--	--	--	--	--	--	1	2	
11-3	--	--	X	--	--	--	--	--	--	--	--	--	--	1	2	
11-4	J3-2	48	X	57	19.00	--	--	--	--	1	--	--	--	--	--	
11-5	J1-3	72	X	39	19.50	--	--	--	1	1	--	--	--	--	--	
11-6	--	--	X	--	--	--	--	--	--	--	--	--	--	1	2	
11-7	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	
11-8	J4-1	24	X	36	6.00	--	--	--	1	--	--	--	--	--	--	
11-8A	--	--	X	--	--	--	--	--	--	--	--	--	1	--	--	MOUNT WITH 11-8
11-9	J3-1	24	X	57	9.50	--	--	--	--	1	--	--	--	--	--	
11-10	J2-2	48	X	57	19.00	--	--	--	--	1	--	--	--	--	--	
11-11	--	--	X	--	--	--	--	--	--	--	--	--	--	1	2	
11-12	D1-2	60	X	30	12.50	--	--	--	2	--	--	--	--	--	--	
11-13	--	--	X	--	--	--	--	--	--	--	--	--	--	1	2	
11-14	D1-2	78	X	30	16.25	--	--	--	2	--	--	--	--	--	--	
11-15	--	--	X	--	--	--	--	--	--	--	--	--	--	1	2	
11-16	J2-3	72	X	57	28.50	--	--	--	--	2	--	--	--	--	--	
11-17	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	
11-18	J3-2	48	X	57	19.00	--	--	--	--	1	--	--	--	--	--	
11-19	--	--	X	--	--	--	--	--	--	--	--	--	--	1	2	
11-20	D1-2	78	X	30	16.25	--	--	--	2	--	--	--	--	--	--	
11-21	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	
11-22	J3-2	48	X	57	19.00	--	--	--	--	1	--	--		--	--	
11-22A	--	--	X	--	--	--	--	--	--	--	--	--	1	--	--	MOUNT ON BACK OF 11-22
11-22B	--	--	X	--	--	--	--	--	--	--	--	--	1	--	--	MOUNT WITH 11-22
11-23	--	--	X	--	--	--	--	--	--	--	--	--	--	1	2	
11-24	D1-3	78	X	36	19.50	--	--	--	1	1	--	--	--	--	--	
11-24A	--	--	X	--	--	--	--	--	--	--	--	--	1	--	--	MOUNT ON BACK OF 11-24
11-25	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	
11-26	J1-2	48	X	39	13.00	--	--	--	1	--	--	--	--	--	--	
11-27	--	--	X	--	--	--	--	--	--	--	--	--	--	1	1	REMOVE EXISTING DUPLICATE SIGN ASSEMBLY
11-28	J2-2	48	X	57	19.00	--	--	--	--	1	--	--	--	--	--	
SUBTOTALS					252.25	0.00	0	0	12	10	0	0	4	13	21	
TOTALS					552.82	124.25	3	15	39	19	1	2	4	57	69	

TYPE I SIGNS AND SUPPORTS

SIGN NO.	SIGN CODE	W X H	635.0200 SIGN SUPPORTS STRUCTURAL STEEL HS LB	636.0100 SIGN SUPPORTS CONCRETE MASONRY CY	636.0500 SIGN SUPPORTS STEEL REINFORCEMENT LB	637.1220 SIGNS TYPE I REFLECTIVE SH SF	638.2601 REMOVING SIGNS TYPE I EACH	638.3100 REMOVING STRUCTURAL STEEL SIGN SUPPORTS EACH	COMMENTS
CAT 0010									
STH 29									
9-2	E1-1A	216 X 162	1,170	1.6	98	243	--	--	
9-3	E1-5	120 X 30	--	--	--	25	--	--	MOUNT WITH 9-2
9-14	--	-- X --	--	--	--	--	1	2	
10-1	E4-1A	252 X 132	1,105	1.6	98	231	1	2	
10-2	E1-5	120 X 30	--	--	--	25	--	--	MOUNT WITH 10-1
12-1	E4-1A	252 X 132	1,105	1.6	98	231	1	2	
12-2	E1-5	120 X 30	--	--	--	25	--	--	MOUNT WITH 12-1
12-3	E1-1A	216 X 162	1,170	1.6	98	243	1	2	
12-4	E1-5	120 X 30	--	--	--	25	--	--	MOUNT WITH 12-3
TOTALS			4,550	6.4	392	1,048	4	8	

TRAFFIC CONTROL ITEMS

LOCATION	DAYS	643.0100.01 (1058-25-70) EACH	643.0300 DRUMS NO.	643.0300 DRUMS DAYS	643.0420 BARRICADES TYPE III NO.	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A NO.	643.0705 WARNING LIGHTS TYPE A DAYS	643.0715 WARNING LIGHTS TYPE C NO.	643.0715 WARNING LIGHTS TYPE C DAYS	643.0800 ARROW BOARDS NO.	643.0800 ARROW BOARDS DAYS	643.0900 SIGNS NO.	643.0900 SIGNS DAYS	643.1050 SIGNS PCMS NO.	643.1050 SIGNS PCMS DAYS	COMMENTS
CAT 0010																	
STAGE 1	120	--	45	5,400	45	5,400	68	8,160	20	2,400	2	240	57	6,840	5	261	
WINTER SHUTDOWN	150	--	30	4,500	21	3,150	28	4,200	--	--	--	--	38	5,700	--	--	
STAGES 2 & 3	155	--	130	20,150	28	4,340	36	5,580	20	3,100	4	620	60	9,300	4	324	
PROJECT	--	1	65	1,500	5	125	10	250	--	--	1	20	10	250	--	--	MISC SHOULDER CLOSURES FOR TYPE I SIGNING INSTALLATION ON STH 29, CTH Y INTERSECTION STAGING
TOTALS		1		31,550		13,015		18,190		5,500		880		22,090		585	

PAVEMENT MARKING ITEMS

STATION - STATION	LOCATION	646.0106 EPOXY 4-INCH (YELLOW) (CENTERLINE) LF	646.0106 EPOXY 4-INCH (YELLOW) (EDGELINE) LF	646.0106 EPOXY 4-INCH (WHITE) (EDGELINE) LF	646.0126 EPOXY 8-INCH (WHITE) (CHANNELIZING) LF	646.0600 REMOVING PAVEMENT MARKINGS LF	646.2304.S GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE) (EDGELINE) LF	647.0526 YIELD LINE SYMBOLS EPOXY 18-INCH (WHITE) EACH	647.0566 STOP LINE EPOXY 18-INCH (WHITE) LF	647.0726 DIAGONAL EPOXY 12-INCH (WHITE) LF	COMMENTS
CAT 0010											
STH 156/OLD 29 DR											
196+50 - 280+37	LT & RT	8,390	--	--	--	--	16,300	--	--	--	
199+18 - 202+18	LT	--	--	--	300	--	--	--	--	--	RT TURN LANE AT ST. AUGUSTINE RD
277+68 - 279+68	RT	--	--	--	200	--	--	--	--	--	RT TURN LANE AT CTH Y
4'Y'+89 - 12'Y'+92	LT & RT	1,565	--	--	405	--	1,355	--	60	150	
OLD 29 DR											
280+37 - 291+00	LT & RT	1,250	--	--	470	225	1,155	12	--	115	REMOVE CENTERLINE WHERE CONFLICTING WITH NEW MARKING
CTH Y											
3'Y'+17 - 4'Y'+89	LT & RT	278	--	196	--	--	--	--	42	--	
ST. AUGUSTINE RD											
10'A'+24 - 37'A'+00	LT & RT	5,326	--	--	--	--	--	--	22	--	
STH 29											
319'EB'+24 - 330'EB'+85 (EB)	LT & RT	--	740	730	--	--	--	--	--	--	REPLACE EDGELINE THROUGH TURN LANE AND MEDIAN REMOVALS
319'EB'+24 - 334'EB'+83 (WB)	LT	--	740	480	--	--	--	--	--	--	REPLACE EDGELINE THROUGH TURN LANE AND MEDIAN REMOVALS
TOTALS		16,809	1,480 19,695	1,406	1,375	225	18,810	12	124	265	

NOTE:
ADDITIONAL PAVEMENT MARKING ITEMS ARE SHOWN WITH PIPE UNDERDRAIN ITEMS (OUTFALL MARKING)

LOCATING NO-PASSING ZONES

STATION - STATION	LOCATION	648.0100 MI
CAT 0010		
STH 156/OLD 29 DR		
196+50 - 291+00	LT & RT	1.79
TOTAL		1.79

TEMPORARY PAVEMENT MARKING ITEMS

	649.0400 REMOVEABLE TAPE 4-INCH (WHITE) LF	649.0400 REMOVEABLE TAPE 4-INCH (YELLOW) LF	649.0506 REMOVEABLE MASK-OUT TAPE 6-INCH LF	COMMENTS
CAT 0010				
STH 29				
	--	450	--	EB LEFT TURN LANE CLOSURE STAGE 1
	--	6,400	400	LANE CLOSURE STAGE 2A
	6,650	--	400	LANE CLOSURE STAGE 2B
TOTALS	6,650	6,850 13,500	800	

NOTE:
MASK-OUT TAPE TO BE USED IN PLACE OF LANE LINE MARKING REMOVAL

3

CONSTRUCTION STAKING ITEMS

STATION - STATION	LOCATION	650.4500 SUBGRADE LF	650.5000 BASE LF	650.5500 CURB GUTTER AND CURB & GUTTER LF	650.6000 PIPE CULVERTS EACH	650.7000 CONCRETE PAVEMENT LF	650.8000 RESURFACING REFERENCE LF	650.9910.01 SUPPLEMENTAL CONTROL (1058-25-70) LS	650.9920 SLOPE STAKES LF
CAT 0010									
STH 156/OLD 29 DR									
196+50 - 217+50	LT & RT	2,100	2,100	--	--	--	--	--	2,100
217+50 - 276+25	LT & RT	665	665	--	--	--	5,875	--	665
276+25 - 280+37	LT & RT	412	412	--	--	--	--	--	412
4'Y'+89 - 12'Y'+92	LT & RT	578	578	334	1	175	225	--	578
OLD 29 DR									
280+37 - 286+59	LT & RT	622	622	301	--	--	--	--	622
CTH Y									
3'Y'+17 - 4'Y'+89	LT & RT	172	172	160	1	--	--	--	172
ST. AUGUSTINE RD									
10'A'+00 - 18'A'+75	LT & RT	875	875	151	1	--	--	--	875
20'A'+92 - 37'A'+00	LT & RT	1,608	1,608	--	--	--	--	--	1,608
EXISTING ST. AUGUSTINE RD									
11'S'+39 - 22'S'+60	LT & RT	626	626	--	1	--	495	--	626
STH 29									
319'EB'+24 - 330'EB'+87 (EB)	LT & RT	1,163	1,163	--	--	--	--	--	1,163
319'EB'+24 - 334'EB'+83 (WB)	LT	1,559	1,559	--	--	--	--	--	1,559
EXISTING STH 156 REMOVAL									
3'S'+25 - 8'S'+93	LT & RT	568	--	--	--	--	--	--	568
EXISTING OLD 29 DR REMOVAL									
5'T'+68 - 9'T'+60	LT & RT	392	--	--	--	--	--	--	392
EXISTING OLD 29 DR TEMPORARY CONNECTION									
11'T'+75 - 13'T'+64	LT & RT	189	--	--	--	--	--	--	189
STREAM REALIGNMENT									
0'W'+00 - 12'B'+61	LT & RT	1,261	--	--	--	--	--	--	1,261
TEMPORARY BYPASS OF STREAM REALIGNMENT									
0'B'+00 - 14'B'+55	LT & RT	1,100	--	--	--	--	--	--	1,100
PROJECT									
PROJECT	LT & RT	--	--	--	--	--	--	1	--
TOTALS		13,890	10,380	946	4	175	6,595	1	13,890

NOTE:
THE SLOPE AND SUBGRADE STAKING FOR THE STREAM REALIGNMENT IS ADDITIONAL STAKING THAT MAY BE REQUIRED TO ENSURE THE DITCH ALONG THE LEFT SIDE OF ST. AUGUSTINE RD MEETS THE REQUIREMENTS OF THE CHANNEL CONFIGURATION SHOWN ON THE CONSTRUCTION DETAILS

CONSTRUCTION STAKING STRUCTURE LAYOUT

STATION	LOCATION	650.6500.01 (B-58-0129) LS	650.6500.02 (B-05-0435) LS	650.6500.03 (C-05-0151) LS
CAT 0010				
STH 156/OLD 29 DR				
215+97	LT & RT	--	1	--
257+35	LT & RT	--	--	1
ST. AUGUSTINE RD				
19'A'+80.60	LT & RT	1	--	--
TOTALS		1	1	1

SAWING ITEMS

STATION - STATION	LOCATION	690.0150 ASPHALT LF	690.0250 CONCRETE LF
CAT 0010			
STH 156/OLD 29 DR			
196+50 - 218+50	LT & RT	84	--
253+89 - 260+54	LT & RT	48	--
276+25 - 280+37	LT & RT	24	--
8'Y'+50 - 10'Y'+67	LT & RT	250	--
OLD 29 DR			
282+50 - 286+59	LT & RT	364	--
CTH Y			
3'Y'+17	LT & RT	30	--
ST. AUGUSTINE RD			
37'A'+00	LT & RT	22	--
EXISTING ST. AUGUSTINE RD			
13'S'+75	LT & RT	22	--
18'S'+70	LT & RT	22	--
STH 29			
319'EB'+24 - 330'EB'+87 (EB)	LT & RT	430	1,455
319'EB'+24 - 334'EB'+83 (WB)	LT & RT	825	1,200
EXISTING OLD 29 DR TEMPORARY CONNECTION			
11'T'+75	LT & RT	22	--
13'T'+64	LT & RT	22	--
DRIVEWAYS			
PROJECT	LT & RT	185	--
TOTALS		2,350	2,655

DEPARTMENT COMPOSITE ORIGINAL LOCATED AT THE REGISTER OF DEEDS OFFICE

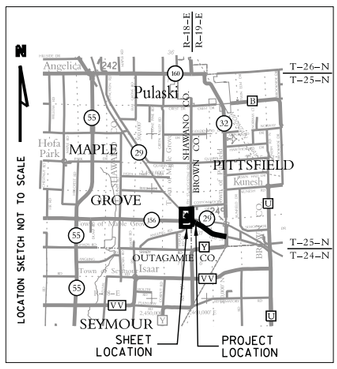
TRANSPORTATION PROJECT PLAT NO: 1058-25-20-4.01

THAT PART OF LOT 1 OF CSM 1766, RECORDED IN V.6, P.303 AS DOC. 512135, LOCATED IN AND PART OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 25, ALSO THAT PART OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 36, ALL IN TOWNSHIP 25 NORTH, RANGE 18 EAST, TOWN OF MAPLE GROVE, SHAWANO COUNTY, WISCONSIN.

RELOCATION ORDER STH 29 & STH 156 INTERSECTION, SHAWANO COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.



STH 29 EB
CURVE 2 DATA
PI = 327°EB"+62.13
Y = 205904.215
X = 954650.441
T = 1307.39'
L = 2519.29'
R = 3819.72'
DELTA = 37°47'22" LT
D = 01°30'00"
LCH = 2473.88'
LCB = S61°47'12"E
PC = 314"EB"+54.74
DB = N42°53'32"W
PT = 339"EB"+74.04
DA = S80°40'53"E

DOC # 712949
Recorded
January 22, 2015 9:21 AM
AMY DILLENBURG
REGISTER OF DEEDS
SHAWANO WI
Fee Amount: $25.00
Slide B-311

1058-25-20-4.01

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1058-25-20-4.01
AMENDMENT NO:

T 25 N
R 18 E | 25 30 | R 19 E

FOUND SURVEY NAIL
Y=208121.845
X=954961.958

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, SHAWANO COUNTY, NAD 83 (1991) IN SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

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

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

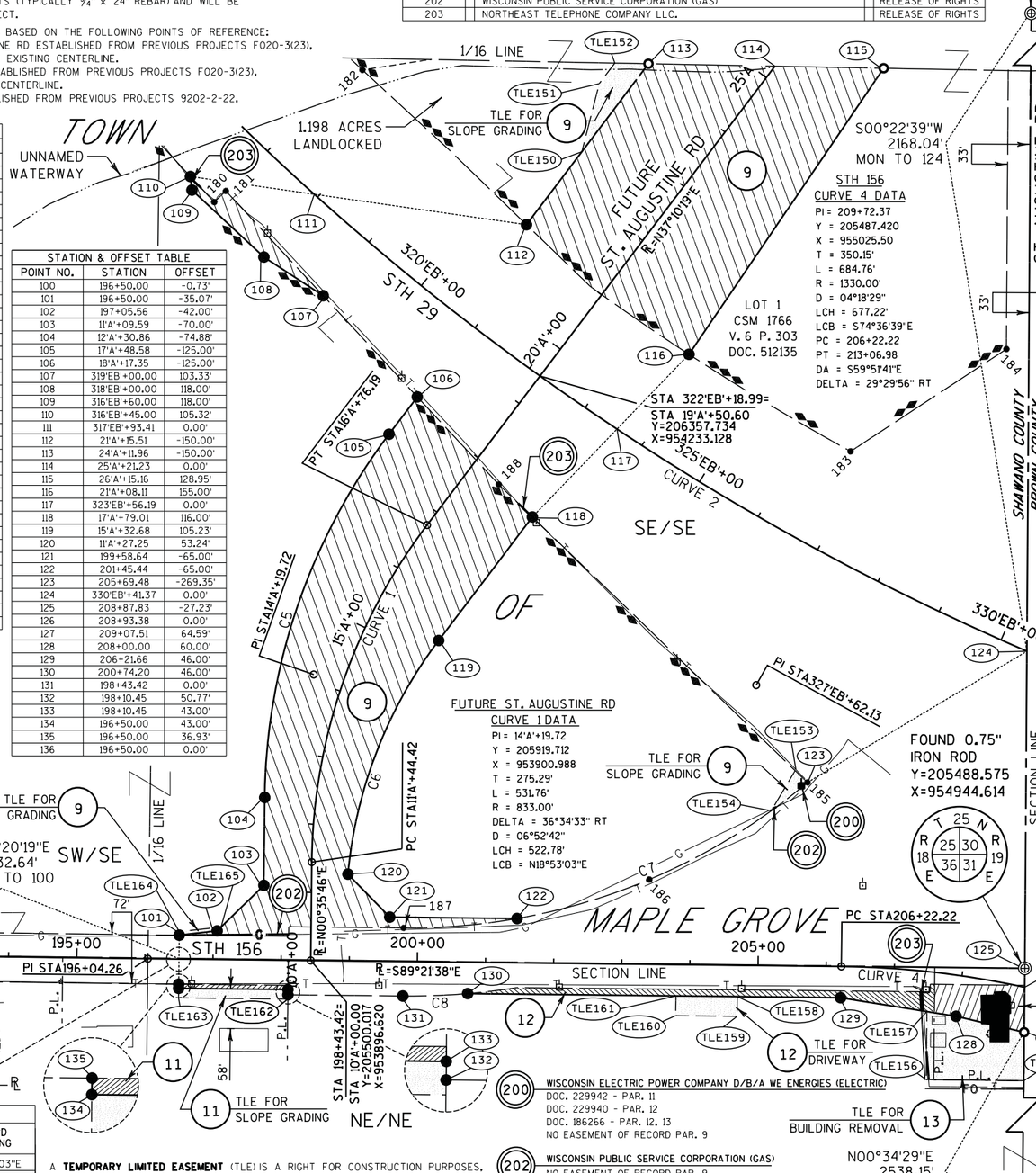
PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD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

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY ¾" x 24" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
EXISTING HIGHWAY RIGHT-OF-WAY FOR ST. AUGUSTINE RD ESTABLISHED FROM PREVIOUS PROJECTS F020-3(23), 9202-2-22, 1058-14-00, 9202-10-00, CSM 1766, AND EXISTING CENTERLINE.
EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 29 ESTABLISHED FROM PREVIOUS PROJECTS F020-3(23), 9202-2-22, 1058-14-00, 9202-10-00, AND EXISTING CENTERLINE.
EXISTING ACCESS CONTROL ALONG STH 29 ESTABLISHED FROM PREVIOUS PROJECTS 9202-2-22, 1058-14-00, AND CSM 1766

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
200	WISCONSIN ELECTRIC POWER COMPANY D/B/A WE ENERGIES (ELECTRIC)	RELEASE OF RIGHTS
202	WISCONSIN PUBLIC SERVICE CORPORATION (GAS)	RELEASE OF RIGHTS
203	NORTHEAST TELEPHONE COMPANY LLC.	RELEASE OF RIGHTS



STATION & OFFSET TABLE

POINT NO.	STATION	OFFSET
100	196+50.00	-0.73'
101	196+50.00	-35.07'
102	197+05.56	-42.00'
103	11'A'+09.59	-70.00'
104	12'A'+30.86	-74.88'
105	17'A'+48.58	-125.00'
106	18'A'+17.35	-125.00'
107	319'EB'+00.00	103.33'
108	318'EB'+00.00	118.00'
109	316'EB'+60.00	118.00'
110	316'EB'+45.00	105.32'
111	317'EB'+93.41	0.00'
112	21'A'+15.51	-150.00'
113	24'A'+11.96	-150.00'
114	25'A'+21.23	0.00'
115	26'A'+15.16	128.95'
116	21'A'+08.11	155.00'
117	323'EB'+56.19	0.00'
118	17'A'+79.01	116.00'
119	15'A'+32.68	105.23'
120	11'A'+27.25	53.24'
121	199+58.64	-65.00'
122	201+45.44	-65.00'
123	205+69.48	-269.35'
124	330'EB'+41.37	0.00'
125	208+87.83	-27.23'
126	208+93.38	0.00'
127	209+07.51	64.59'
128	208+00.00	60.00'
129	206+21.66	46.00'
130	200+74.20	46.00'
131	198+43.42	0.00'
132	198+10.45	50.77'
133	198+10.45	43.00'
134	196+50.00	43.00'
135	196+50.00	36.93'
136	196+50.00	0.00'

COURSE TABLE

COURSE	BEARING	DISTANCE
100-101	N 00°38'22" E	34.33'
101-102	N 83°31'34" E	55.99'
102-103	N 45°44'20" E	95.68'
103-104	N 00°35'46" E	128.87'
104-105	SEE CURVE DATA ON SHEET	
105-106	N 37°10'19" E	68.78'
106-107	N 42°54'59" W	202.75'
107-108	N 56°56'06" W	103.93'
108-109	N 47°01'15" W	144.32'
109-110	N 06°28'19" W	19.98'
110-111	S 81°50'58" E	183.64'
111-112	S 81°50'58" E	314.69'
112-113	N 37°10'19" E	296.34'
113-114	S 88°53'58" E	185.58'
114-115	S 88°53'58" E	159.54'
115-116	S 34°13'53" W	507.72'
116-117	S 43°55'49" W	152.45'
117-118	S 43°55'49" W	178.95'
118-119	S 37°10'19" W	227.59'
119-120	SEE CURVE DATA ON SHEET	
120-121	S 44°15'40" E	87.95'
121-122	S 89°21'38" E	186.80'
122-123	SEE CURVE DATA ON SHEET	
123-124	N 59°07'00" E	375.23'
124-125	S 00°22'39" W	465.28'
125-126	S 00°34'29" W	27.80'
126-127	S 00°34'29" W	66.04'
127-128	N 76°49'25" W	102.55'
128-129	N 80°52'37" W	171.69'
129-130	N 89°21'38" W	547.47'
130-131	SEE CURVE DATA ON SHEET	
131-132	N 89°25'06" W	168.69'
132-133	N 00°35'46" E	7.77'
133-134	N 89°21'38" W	160.45'
134-135	N 00°38'22" E	6.07'
135-136	N 00°38'22" E	36.93'
136-100	N 00°38'22" E	0.73'

TLE STATION & OFFSET TABLE

POINT NO.	STATION	OFFSET
TLE 150	22'A'+50.00	-150.00'
TLE 151	23'A'+45.00	-190.00'
TLE 152	23'A'+82.82	-190.00'
TLE 153	205+51.22	-286.59'
TLE 154	205+16.82	-227.21'
TLE 155	209+24.44	134.00'
TLE 156	207+65.97	157.85'
TLE 157	207+54.59	58.63'
TLE 158	204+70.00	46.00'
TLE 159	204+70.00	75.00'
TLE 160	203+80.00	75.00'
TLE 161	203+80.00	46.00'
TLE 162	198+10.46	57.00'
TLE 163	196+50.00	57.00'
TLE 164	196+50.00	-40.10'
TLE 165	197+11.34	-47.76'

CURVE TABLE

CURVE NUMBER	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING
C5	897.76'	573.10'	563.42'	N18°53'03"E
C6	669.56'	372.61'	367.82'	S21°13'46"W
C7	904.93'	476.19'	470.71'	N64°54'35"E
C8	1004.93'	95.20'	95.17'	S87°52'04"W

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

(200) WISCONSIN ELECTRIC POWER COMPANY D/B/A WE ENERGIES (ELECTRIC)
DOC. 229942 - PAR. 11
DOC. 229940 - PAR. 12
DOC. 186266 - PAR. 12, 13
NO EASEMENT OF RECORD PAR. 9

(202) WISCONSIN PUBLIC SERVICE CORPORATION (GAS)
NO EASEMENT OF RECORD PAR. 9

(203) NORTHEAST TELEPHONE COMPANY LLC.
NO EASEMENT OF RECORD PAR. 9, 12
DOC. 337364 - PAR. 11
DOC. 337234 - PAR. 12, 13
DOC. 337251 - PAR. 12, 13

CONVENTIONAL UTILITY SYMBOLS

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

CONVENTIONAL ABBREVIATIONS

ACCESS POINT, DRIVEWAY CONNECTION	AP	REFERENCE LINE	R/L
ACCESS RIGHTS	AR	RELEASE OF RIGHTS	ROR
ACRES	AC.	REMAINING	REM.
AND OTHERS	ET.AL.	RIGHT-OF-WAY	R/W
CENTERLINE	C/L	SECTION	SEC.
CERTIFIED SURVEY MAP	CSM	STATION	STA.
CORNER	COR.	TEMPORARY LIMITED EASEMENT	TLE
DOCUMENT	DOC.	VOLUME	V.
EASEMENT	EASE.	**CURVE DATA**	
HIGHWAY EASEMENT	H.E.	LONG CHORD	LCH
LAND CONTRACT	LC	LONG CHORD BEARING	LCB
MONUMENT	MON.	RADIUS	R
PAGE	P.	DEGREE OF CURVE	D
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	DELTA
PROPERTY LINE	PL	LENGTH OF CURVE	L
RECORDED AS	(100')	TANGENT	TAN

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	(1" UNLESS NOTED)	PROPOSED R/W LINE	
R/W MONUMENT	●(SET)	EXISTING H.E. LINE	
R/W STANDARD	▲(SET)	PROPERTY LINE	
SIGN	SIGN	LOT & TIE LINES	
SECTION CORNER MONUMENT		SLOPE INTERCEPTS	
SECTION CORNER SYMBOL		CORPORATE LIMITS	
FEE (HATCH VARIES)		RESTRICTED ACCESS (BY PREVIOUS ACQUISITION/CONTROL)	
TEMPORARY LIMITED EASEMENT		RESTRICTED ACCESS (BY ACQUISITION)	
PERMANENT LIMITED EASEMENT		NO ACCESS (BY STATUTORY AUTHORITY)	
R/W BOUNDARY POINT	RWB20	SECTION LINE	
PARCEL NUMBER	102	QUARTER LINE	
UTILITY NUMBER	40	SIXTEENTH LINE	
SIGN NUMBER (OFF PREMISE)	21	EXISTING CENTERLINE	
BUILDING		PROPOSED REFERENCE LINE	
		PARALLEL OFFSET	

GN

0 100 200
SCALE, FEET

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
9	BAUMGART MARITAL TRUST FUNDED JANUARY 24, 2006, SUSAN MIELCAREK TRUSTEE	FEE/TLE	6.245	0.163	6.408	0.119
11	JAMES J. VANDEN ENG AND MARGARET VANDEN	FEE/TLE	0.023	0.178	0.201	0.052
12	MELVIN A. & GERALDINE R. NOOYEN	FEE/TLE	0.180	0.443	0.623	0.085
13	WOZ'S POLISH PICKLE, LLC	FEE/TLE	0.165	0.076	0.241	0.259

EXISTING MONUMENTS

POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
180	206613.021	953754.876	1.25" OD IP
181	206629.335	953771.984	1.25" OD IP
182	206806.314	953972.385	1.00" OD IP
183	206247.105	954688.913	1.25" OD IP
184	206397.293	954917.606	1.00" OD IP
185	205761.246	954625.650	1.25" OD IP
186	205618.852	954393.493	1.25" OD IP
187	205547.898	954032.786	1.25" OD IP
188	206198.592	954172.486	1.25" OD IP

emcs.inc

I, KEVIN C. BOYER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1058-25-20-4.01 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE: 1-13-2016

KEVIN C. BOYER
PROFESSIONAL LAND SURVEYOR NUMBER 2675

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

Brent L Stella DATE: 1-13-16
(SIGNATURE)
(PRINTED NAME) Brent L Stella

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\PlanTPP\STH 29\040101_rp.dgn
PLOT DATE : 1/13/2016
PLOT BY : kcb
PLOT NAME :
PLOT SCALE : 1:100
APPRAISAL PLAT DATE :

DEPARTMENT COMPOSITE ORIGINAL LOCATED AT THE REGISTER OF DEEDS OFFICE

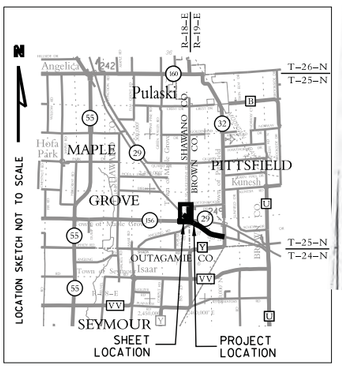
TRANSPORTATION PROJECT PLAT NO: 1058-25-20-4.02

THAT PART LOT 1 OF CSM 1766, RECORDED IN V.6, P.303 AS DOC. 512135, LOCATED IN AND PART OF THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 25, TOWNSHIP 25 NORTH, RANGE 18 EAST, TOWN OF MAPLE GROVE, SHAWANO COUNTY, WISCONSIN.

RELOCATION ORDER STH 29 & STH 156 INTERSECTION, SHAWANO COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.



DOC # 712950
Recorded
January 22, 2016 9:21 AM
AMY DILLENBURG
REGISTER OF DEEDS
SHAWANO WI
Fee Amount: $25.00
Slide B-311

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1058-25-20-4.02
AMENDMENT NO:

1058-25-20-4.02

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, SHAWANO COUNTY, NAD 83 (1991) IN SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

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

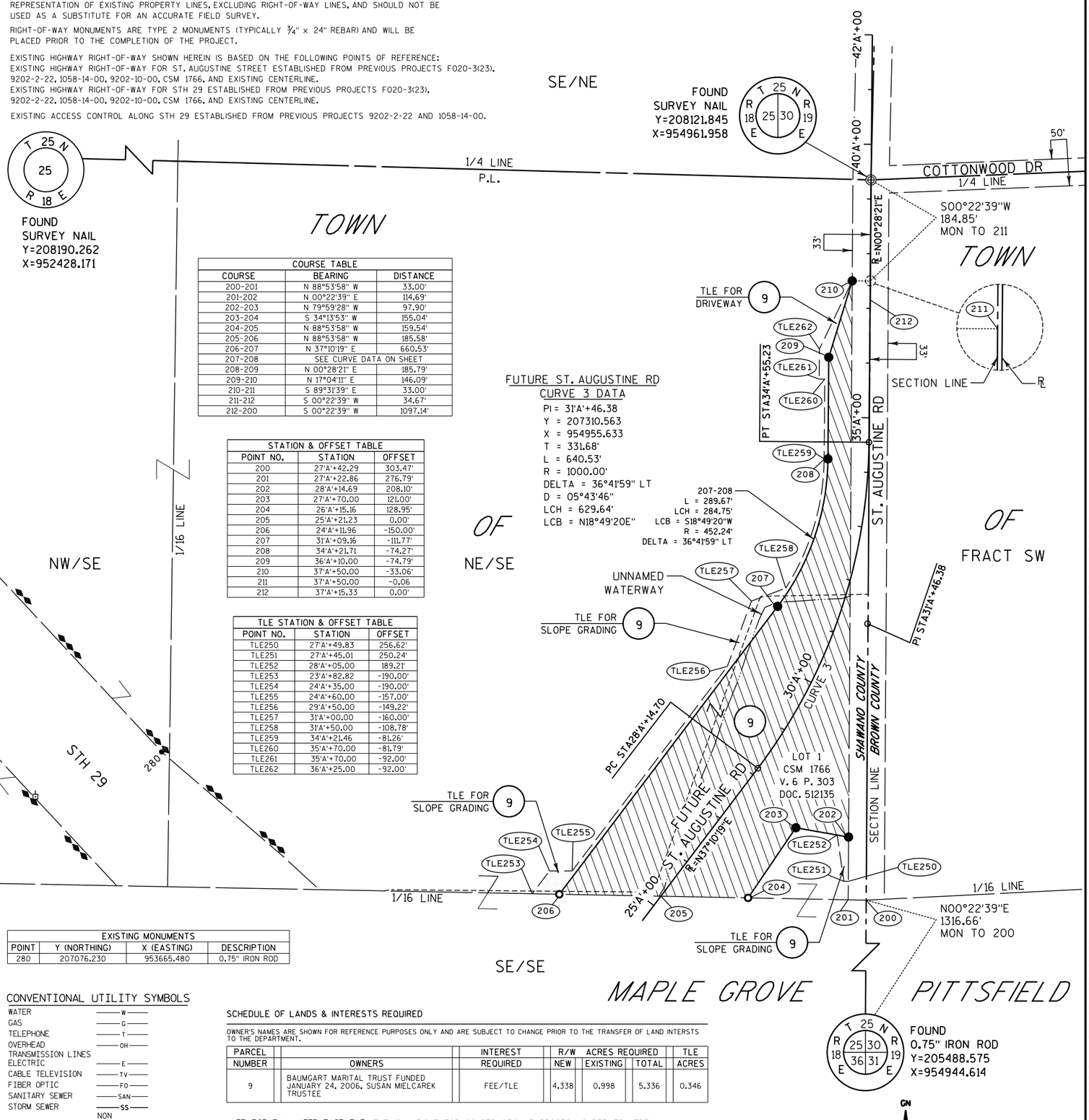
DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES.

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

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY ¾" x 24" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
EXISTING HIGHWAY RIGHT-OF-WAY FOR ST. AUGUSTINE STREET ESTABLISHED FROM PREVIOUS PROJECTS F020-3(23), 9202-2-22, 1058-14-00, 9202-10-00, CSM 1766, AND EXISTING CENTERLINE.
EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 29 ESTABLISHED FROM PREVIOUS PROJECTS F020-3(23), 9202-2-22, 1058-14-00, 9202-10-00, CSM 1766, AND EXISTING CENTERLINE.

EXISTING ACCESS CONTROL ALONG STH 29 ESTABLISHED FROM PREVIOUS PROJECTS 9202-2-22 AND 1058-14-00.



COURSE TABLE		
COURSE	BEARING	DISTANCE
200-201	N 88°53'58" W	33.00'
201-202	N 00°22'39" E	114.69'
202-203	N 79°59'28" W	97.90'
203-204	S 34°13'53" W	155.04'
204-205	N 88°53'58" W	159.54'
205-206	N 88°53'58" W	185.58'
206-207	N 37°10'19" E	660.53'
207-208	SEE CURVE DATA ON SHEET	
208-209	N 00°28'21" E	185.79'
209-210	N 17°04'11" E	146.09'
210-211	S 89°31'39" E	33.00'
211-212	S 00°22'39" W	34.67'
212-200	S 00°22'39" W	1097.14'

STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
200	27'A+42.29	303.47'
201	27'A+22.86	276.79'
202	28'A+14.69	208.10'
203	27'A+70.00	121.00'
204	26'A+15.16	128.95'
205	25'A+21.23	0.00'
206	24'A+11.96	-150.00'
207	31'A+09.16	-111.77'
208	34'A+21.71	-74.27'
209	36'A+10.00	-74.79'
210	37'A+50.00	-33.06'
211	37'A+50.00	-0.06
212	37'A+15.33	0.00'

TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE250	27'A+49.83	256.62'
TLE251	27'A+45.01	250.24'
TLE252	28'A+05.00	189.21'
TLE253	23'A+82.82	-190.00'
TLE254	24'A+35.00	-190.00'
TLE255	24'A+60.00	-157.00'
TLE256	29'A+50.00	-149.22'
TLE257	31'A+00.00	-160.00'
TLE258	31'A+50.00	-108.78'
TLE259	34'A+21.46	-81.26'
TLE260	35'A+70.00	-81.79'
TLE261	35'A+70.00	-92.00'
TLE262	36'A+25.00	-92.00'

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
280	207076.230	953665.480	0.75" IRON ROD

CONVENTIONAL UTILITY SYMBOLS

	NON COMPENSABLE	COMPENSABLE
WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD TRANSMISSION LINES	OH	
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
POWER POLE	○	●
TELEPHONE POLE	⌀	⌀
TELEPHONE PEDESTAL	⌑	⌑
ELECTRIC TOWER	⊠	

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
9	BAUMGART MARITAL TRUST FUNDED JANUARY 24, 2006, SUSAN MIELCAREK TRUSTEE	FEE/TLE	4.338	0.998	5.336	0.346

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

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	⌀ (1" UNLESS NOTED)	PROPOSED R/W LINE	
		EXISTING H.E. LINE	
R/W MONUMENT	○ •(SET)	PROPERTY LINE	
R/W STANDARD	△ •(SET)	LOT & TIE LINES	
SIGN	ISIGN	SLOPE INTERCEPTS	
SECTION CORNER MONUMENT	●	CORPORATE LIMITS	
SECTION CORNER SYMBOL		RESTRICTED ACCESS (BY PREVIOUS ACQUISITION/CONTROL)	
FEE (HATCH VARIES)		RESTRICTED ACCESS (BY ACQUISITION)	
TEMPORARY LIMITED EASEMENT		NO ACCESS (BY STATUTORY AUTHORITY)	
PERMANENT LIMITED EASEMENT		SECTION LINE	
R/W BOUNDARY POINT	RWB20	QUARTER LINE	
PARCEL NUMBER	102	SIXTEENTH LINE	
UTILITY NUMBER	40	EXISTING CENTERLINE	
SIGN NUMBER (OFF PREMISE)	21-1	PROPOSED REFERENCE LINE	
BUILDING		PARALLEL OFFSET	

CONVENTIONAL ABBREVIATIONS

ACCESS POINT, DRIVEWAY CONNECTION	AP	REFERENCE LINE	R/L
ACCESS RIGHTS	AR	RELEASE OF RIGHTS	ROR
ACRES	AC.	REMAINING	REM.
AND OTHERS	ET.AL.	RIGHT-OF-WAY	R/W
CENTERLINE	C/L	SECTION	SEC.
CERTIFIED SURVEY MAP	CSM	STATION	STA.
CORNER	COR.	TEMPORARY LIMITED EASEMENT	TLE
DOCUMENT	DOC.	VOLUME	V.
EASEMENT	EASE.	**CURVE DATA**	
HIGHWAY EASEMENT	H.E.	LONG CHORD	LCH
LAND CONTRACT	LC	LONG CHORD BEARING	LCB
MONUMENT	MON.	RADIUS	R
PAGE	P.	DEGREE OF CURVE	D
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	DELTA
PROPERTY LINE	PL	LENGTH OF CURVE	L
RECORDED AS	(100')	TANGENT	TAN

emcs.llc

I, KEVIN C. BOYER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1058-25-20-4.02 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN KEVIN C BOYER S-2675 MEWITT WI LAND SURVEYOR

Kevin C. Boyer DATE: 1-13-2016
KEVIN C. BOYER
PROFESSIONAL LAND SURVEYOR NUMBER 2675

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

Brent L Stella DATE: 1-13-16
(SIGNATURE)
(PRINTED NAME) Brent L Stella

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\PlanTPP\STH 29\040102_rp.dgn
PLOT DATE : 1/13/2016
PLOT BY : kcb
PLOT NAME :
PLOT SCALE : 1:100
APPRAISAL PLAT DATE :

DEPARTMENT COMPOSITE ORIGINAL LOCATED AT THE REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 1058-25-20-4.03

THAT PART OF THE FRACTIONAL SOUTHWEST 1/4 OF SECTION 30, TOWNSHIP 25 NORTH, RANGE 19 EAST, TOWN OF PITTSFIELD, BROWN COUNTY, WISCONSIN.

RELOCATION ORDER STH 29 & STH 156 INTERSECTION, BROWN COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, BROWN COUNTY, NAD 83 (1991) IN SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

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

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

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

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY ¾" x 24" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR ST. AUGUSTINE STREET ESTABLISHED FROM PREVIOUS PROJECTS F020-3(23), 9202-2-22, 1058-14-00, 9202-10-00, CSM 1766, AND EXISTING CENTERLINE. NO PREVIOUS ACCESS CONTROL EXISTS.

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

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
14	O'CONNOR FAMILY FARM, LLC	FEE/TLE	0.748	0.997	1.745	0.034

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	⌀ (1" UNLESS NOTED)	PROPOSED R/W LINE	
		EXISTING H.E. LINE	
R/W MONUMENT	•(SET)	PROPERTY LINE	
R/W STANDARD	▲(SET)	LOT & TIE LINES	
SIGN	SIGN	SLOPE INTERCEPTS	
SECTION CORNER MONUMENT		CORPORATE LIMITS	
SECTION CORNER SYMBOL		RESTRICTED ACCESS (BY PREVIOUS ACQUISITION/CONTROL)	
FEE (HATCH VARIES)		RESTRICTED ACCESS (BY ACQUISITION)	
TEMPORARY LIMITED EASEMENT		NO ACCESS (BY STATUTORY AUTHORITY)	
PERMANENT LIMITED EASEMENT		SECTION LINE	
R/W BOUNDARY POINT	RWB20	QUARTER LINE	
PARCEL NUMBER	102	SIXTEENTH LINE	
UTILITY NUMBER	40	EXISTING CENTERLINE	
SIGN NUMBER (OFF PREMISE)	21	PROPOSED REFERENCE LINE	
BUILDING		PARALLEL OFFSET	

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	REFERENCE LINE	R/L
ACCESS RIGHTS	AR	RELEASE OF RIGHTS	ROR
ACRES	AC.	REMAINING	REM.
AND OTHERS	ET.AL.	RIGHT-OF-WAY	R/W
CENTERLINE	C/L	SECTION	SEC.
CERTIFIED SURVEY MAP	CSM	STATION	STA.
CORNER	COR.	TEMPORARY LIMITED EASEMENT	TLE
DOCUMENT	DOC.	VOLUME	V.
EASEMENT	EASE.	**CURVE DATA**	
HIGHWAY EASEMENT	H.E.	LONG CHORD	LCH
LAND CONTRACT	LC	LONG CHORD BEARING	LCB
MONUMENT	MON.	RADIUS	R
PAGE	P.	DEGREE OF CURVE	D
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	DELTA
PROPERTY LINE	PL	LENGTH OF CURVE	L
RECORDED AS	(100')	TANGENT	TAN

CONVENTIONAL UTILITY SYMBOLS

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

FUTURE ST. AUGUSTINE RD CURVE 3 DATA

PI = 31'A'+46.38
Y = 599968.178
X = 39903.765
T = 331.68'
L = 640.53'
R = 1000.00'
DELTA = 36°41'59" LT
D = 05°43'46"
LCH = 629.64'
LCB = N19°14'51"E

FOUND SURVEY NAIL
Y=600779.390
X=39916.110

S00°48'09"W
184.74'
MON TO 306

SECTION LINE

TOWN OF FRACT SW NE/SE PITTSFIELD

ST. AUGUSTINE RD

SHAWANO COUNTY / BROWN COUNTY

SECTION LINE

FUTURE ST. AUGUSTINE RD CURVE 3

MAPLE GROVE

LOT 1
CSM 1766
VOL. 6 PG. 303
DOC. 512135

PT STA34'A'+55.23
PC STA28'A'+14.70
PI STA31'A'+46.38
R=N00°53'15"E
R=N57°35'50"E

36'A'+00
34'A'+00
32'A'+00
30'A'+00
28'A'+00
26'A'+00

300 301 302 303 304 305 306 307 308 14

TLE354 TLE355 TLE356 TLE357 TLE FOR DRIVEWAY

33' 33'

1/16 LINE

FOUND
0.75" IRON ROD
Y=598146.321
X=39879.226

N00°48'09"E
1316.66'
MON TO 304

T 25 N R 19 E — 25 30 31 36

GN

0 50 100
SCALE, FEET

LOCATION SKETCH NOT TO SCALE

Pulaski, MAPLE GROVE, PITTSFIELD, OUTAGAMIE CO., SHAWANO CO., BROWN CO., SEYMOUR, Hofa Park, Kunesh

SHEET LOCATION — PROJECT LOCATION

STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
300	37'A'+50.11	32.94'
301	36'A'+99.37	42.07'
302	29'A'+78.57	225.32'
303	27'A'+81.62	315.26'
304	27'A'+42.29	303.47'
305	37'A'+15.33	0.00'
306	37'A'+50.11	-0.06'
307	37'A'+50.11	0.00'
308	27'A'+63.55	328.78'

TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE 354	28+70.92	269.60'
TLE 355	28+47.77	299.93'
TLE 356	28+21.57	314.76'
TLE 357	27+69.00	324.70'

COURSE TABLE		
COURSE	BEARING	DISTANCE
306-307	S 89°06'09" E	0.06'
307-300	S 89°06'09" E	32.94'
300-301	S 09°17'43" E	51.56'
301-302	S 02°24'53" E	807.68'
302-303	S 13°03'33" W	256.11'
303-308	S 00°48'09" W	22.56'
308-304	S 87°33'43" W	33.05'
304-305	N 00°48'09" E	1097.14'
305-306	N 00°48'09" E	34.78'

200 WISCONSIN ELECTRIC POWER COMPANY D/B/A WE ENERGIES (ELECTRIC)
DOC. 111824 - PAR. 14

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
200	WISCONSIN ELECTRIC POWER COMPANY D/B/A WE ENERGIES (ELECTRIC)	RELEASE OF RIGHTS

2732358
CATHY WILLIQUETTE LINDSAY
BROWN COUNTY RECORDER
GREEN BAY, WI
RECORDED ON
01/26/2016 9:15 AM
REC FEE: 25.00
EXEMPT #
PAGES: 1
The above recording information verifies that this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1058-25-20-4.03
AMENDMENT NO:

emcs LLC

I, KEVIN C. BOYER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1058-25-20-4.03 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

Kevin C Boyer DATE: 1-13-2016

KEVIN C. BOYER
PROFESSIONAL LAND SURVEYOR NUMBER 2675

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

Brent L Stella DATE: 1-13-16
(SIGNATURE)
(PRINTED NAME) Brent L. Stella

1058-25-20-4.03

PLOT SCALE : 1:50
PLOT NAME :
PLOT BY : kcb
PLOT DATE : 1/13/2016
FILE NAME : P:\48xx\4801-4802_DP_13_STH156-STH29_SHA\CADDS\Plan\TPP\STH 29\040103_rp.dgn
APPRAISAL PLAT DATE :

DEPARTMENT COMPOSITE ORIGINAL LOCATED AT THE REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 1058-25-20-4.04

THAT PART OF THE FRACTIONAL NORTHWEST 1/4 OF SECTION 31, TOWNSHIP 25 NORTH, RANGE 19 EAST, TOWN OF PITTSFIELD, BROWN COUNTY, WISCONSIN.

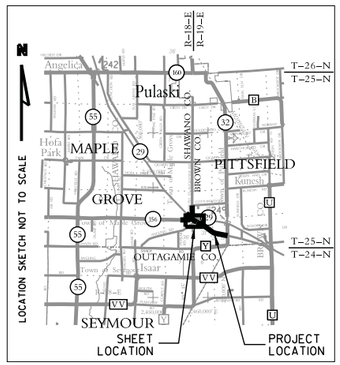
RELOCATION ORDER STH 29 & STH 156 INTERSECTION, BROWN COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

2732359
CATHY WILLIQUETTE LINDSAY
BROWN COUNTY RECORDER
GREEN BAY, WI
RECORDED ON
01/26/2016 9:19 AM
REC FEE: 25.00
EXEMPT #
PAGES: 1
The above recording information verifies that this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1058-25-20-4.04
AMENDMENT NO:



TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE 450	209+23.66	64.56'
TLE 451	209+40.65	130.54'
TLE 452	209+24.44	134.00'
TLE 454	216+50.00	75.00'
TLE 455	215+50.00	80.00'
TLE 456	215+30.00	64.72'
TLE 457	215+30.00	-65.28'
TLE 458	215+61.00	-87.00'
TLE 459	216+50.00	-87.00'

FOUND SURVEY NAIL
Y=600779.390
X=39916.110

S00°48'09"W
2280.85'
MON TO 400

L = 53.50'
LCH = 53.50'
LCB = S07°59'41"W
R = 1185.92'
DELTA = 02°35'05" RT

STH 29

SHAWANO COUNTY / BROWN COUNTY

SECTION LINE

TOWN

SE/SE

FRACT SW

FOUND
0.75" IRON ROD
Y=598146.321
X=39879.226

FOUND BRASS CAP MONUMENT
Y=598203.531
X=40975.283

OF

PC STA206+22.22
STH 156 206+00
R=S89°56'07"E

SECTION LINE 208+00

PI STA209+72.37
E0 210+00
CURVE 4

MAPLE GROVE

FRACT NW

OF

212+00

PT STA213+06.98

NE/NE

NO1°00'00"E
2538.15'
MON TO 410

P.L.

TLE450
TLE452
TLE451

12 TLE FOR BUILDING REMOVAL

FOUND
BRASS CAP MONUMENT
Y=595514.731
X=39833.292

407-408
L = 385.55'
LCH = 385.48'
LCB = N58°44'51"W
R = 5794.58'
DELTA = 03°48'44" RT

214+00

OLD 29 DR
R=S59°26'11"E
PC STA215+61.29

216+00

PITTSFIELD

TLE FOR SLOPE GRADING AND TEMPORARY DRAINAGE 12

TLE FOR SLOPE GRADING AND TEMPORARY DRAINAGE 10

15 TLE FOR SLOPE GRADING

TLE454 TLE455 TLE456 TLE457 TLE458 TLE459

ANGLE DR

0 50 100
SCALE, FEET

GN

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
~~* 10~~	~~BROWN COUNTY~~	~~TLE~~				~~0.029~~
12	MELVIN A. & GERALDINE R. NOOYEN	FEE/TLE	0.155	---	0.155	0.059
15	THOMAS M. & CHRISTINE SNIDER	TLE	---	---	---	0.028

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
200	WISCONSIN ELECTRIC POWER COMPANY D/B/A WE ENERGIES (ELECTRIC)	RELEASE OF RIGHTS
203	NORTHEAST TELEPHONE COMPANY LLC.	RELEASE OF RIGHTS

OLD 29 DR
CURVE 4 DATA
PI = 209+72.37
Y = 598144.56
X = 39960.10
T = 350.15'
L = 684.76'
R = 1330.00'
DELTA = 29°29'56" RT
D = 04°18'29"
LCH = 677.22'
LCB = S74°11'09"E

403-405
L = 706.15'
LCH = 705.70'
LCB = S57°05'08"E
R = 5664.58'
DELTA = 07°08'33" LT

200 WISCONSIN ELECTRIC POWER COMPANY D/B/A WE ENERGIES (ELECTRIC)
DOC. 103356 - PAR. ~~10~~, 15
*

203 NORTHEAST TELEPHONE COMPANY LLC.
DOC. 812305 - PAR. 15
NO EASEMENT OF RECORD - PAR. 12

* PARCEL 10 WAS VACATED PER DOCUMENT #2737712

COURSE TABLE		
COURSE	BEARING	DISTANCE
400-401	S 89°11'51" E	37.96'
401-402	SEE CURVE DATA ON SHEET	
402-403	S 24°09'15" E	242.96'
403-405	SEE CURVE DATA ON SHEET	
405-406	S 29°28'42" W	65.53'
406-407	S 29°28'42" W	64.47'
407-408	SEE CURVE DATA ON SHEET	
408-409	N 62°07'43" W	175.12'
409-410	N 76°23'54" W	185.81'
410-411	N 01°00'00" E	66.04'
411-412	N 01°00'00" E	2.81'
412-413	N 01°00'00" E	24.99'
413-400	N 00°48'09" E	352.48'

STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
400	208+32.00	-373.88'
401	208+61.13	-380.43'
402	208+63.65	-327.03'
403	209+92.19	-136.37'
405	216+69.50	-65.53'
406	216+69.50	0.00'
407	216+69.50	64.47'
408	212+84.25	58.62'
409	211+01.54	51.81'
410	209+07.51	64.59'
411	208+93.38	0.00'
412	208+92.81	-2.74'
413	208+87.83	-27.23'

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP 482	598498.176	39922.113	1.25" OD IP
IP 483	598444.927	39914.828	1.25" OD IP
IP 484	598223.570	40014.097	1.25" OD IP

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, BROWN COUNTY, NAD 83 (1991) IN SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

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

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

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

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY ¾" x 24" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 29 AND OLD 29 DRIVE ESTABLISHED FROM PREVIOUS PROJECTS F020-3(23), 9202-2-22, 1058-14-00, 9202-10-00, AND EXISTING CENTERLINE.
EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 156 ESTABLISHED FROM PREVIOUS PROJECTS S0114(2), F020-3(23), 9202-2-22, 1058-14-00, 9202-10-00, AND EXISTING CENTERLINE.

EXISTING ACCESS CONTROL ALONG OLD 29 DRIVE ESTABLISHED FROM PREVIOUS RIGHT OF WAY PROJECT F020-3(23).

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

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN (LR (1" UNLESS NOTED))
R/W MONUMENT (●(SET))
R/W STANDARD (▲(SET))
SIGN (SIGN)
SECTION CORNER MONUMENT
SECTION CORNER SYMBOL
FEE (HATCH VARIES)
TEMPORARY LIMITED EASEMENT
PERMANENT LIMITED EASEMENT
R/W BOUNDARY POINT (RWB20)
PARCEL NUMBER (102)
UTILITY NUMBER (40)
SIGN NUMBER (OFF PREMISE) (21-)
BUILDING

PROPOSED R/W LINE
EXISTING H.E. LINE
PROPERTY LINE
LOT & TIE LINES
SLOPE INTERCEPTS
CORPORATE LIMITS
RESTRICTED ACCESS (BY PREVIOUS ACQUISITION/CONTROL)
RESTRICTED ACCESS (BY ACQUISITION)
NO ACCESS (BY STATUTORY AUTHORITY)
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
EXISTING CENTERLINE
PROPOSED REFERENCE LINE
PARALLEL OFFSET

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	REFERENCE LINE	R/L
ACCESS RIGHTS	AR	RELEASE OF RIGHTS	ROR
ACRES	AC.	REMAINING	REM.
AND OTHERS	ET.AL.	RIGHT-OF-WAY	R/W
CENTERLINE	C/L	SECTION	SEC.
CERTIFIED SURVEY MAP	CSM	STATION	STA.
CORNER	COR.	TEMPORARY LIMITED EASEMENT	TLE
DOCUMENT	DOC.	VOLUME	V.
EASEMENT	EASE.	**CURVE DATA**	
HIGHWAY EASEMENT	H.E.	LONG CHORD	LCH
LAND CONTRACT	LC	LONG CHORD BEARING	LCB
MONUMENT	MON.	RADIUS	R
PAGE	P.	DEGREE OF CURVE	D
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	DELTA
PROPERTY LINE	PL	LENGTH OF CURVE	L
RECORDED AS	(100')	TANGENT	TAN

CONVENTIONAL UTILITY SYMBOLS

	NON COMPENSABLE	COMPENSABLE
WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD	OH	
TRANSMISSION LINES		
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
POWER POLE	⊕	⊕
TELEPHONE POLE	⌀	⌀
TELEPHONE PEDESTAL	⌧	⌧
ELECTRIC TOWER	⊠	

emcs.uc

I, KEVIN C. BOYER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1058-25-20-4.04 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN KEVIN C BOYER S-2675 HEWITT WI LAND SURVEYOR

DATE: 1/13/2016
KEVIN C. BOYER
PROFESSIONAL LAND SURVEYOR NUMBER 2675

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
Brent L Stella DATE: 1-13-16
(SIGNATURE)
(PRINTED NAME) Brent L Stella

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\TPP\STH 29\040104_rp.dgn PLOT DATE : 1/13/2016 PLOT BY : kcb PLOT NAME : PLOT SCALE : 1:50
APPRAISAL PLAT DATE :

1058-25-20-4.04

DEPARTMENT COMPOSITE ORIGINAL LOCATED AT THE REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 1058-25-20-4.05

THAT PART OF THE NORTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 32, TOWNSHIP 25 NORTH, RANGE 19 EAST, TOWN OF PITTSFIELD, BROWN COUNTY, WISCONSIN.

RELOCATION ORDER STH 29 & STH 156 INTERSECTION, BROWN COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	R/W ACRES REQUIRED EXISTING	R/W ACRES REQUIRED TOTAL	TLE ACRES
16	MARY K. GANSBERG	FEE/TLE	0.040	0.137	0.177	0.030
17	JUSTIN S. STANLEY	FEE/TLE	0.109	0.276	0.385	0.105
18	JOHN J. SCHINKTGEN AND BETTY J.	FEE/TLE	0.078	0.829	0.907	0.053
19	MELVIN A. & GERALDINE R. NOOYEN	TLE	---	---	---	0.130

STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
500	252+47.90	-42.42'
502	259+57.47	-43.12'
503	260+50.00	-42.97'
504	260+50.00	0.00'
505	260+50.00	39.53'
506	260+30.00	48.00'
507	258+00.00	64.00'
508	256+50.00	48.00'
509	255+80.00	56.00'
510	254+00.00	54.00'
512	253+60.00	39.80'
514	252+93.31	39.96'
515	252+71.75	0.00'

TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE 550	255+22.00	-43.00'
TLE 551	255+22.00	-48.00'
TLE 552	256+65.00	-53.00'
TLE 553	257+00.00	-75.00'
TLE 554	257+50.00	-75.00'
TLE 555	258+00.00	-50.00'
TLE 556	259+70.00	-50.00'
TLE 557	259+70.00	-43.10'
TLE 558	260+80.00	39.58'
TLE 559	260+50.00	57.13'
TLE 560	258+00.00	70.00'
TLE 561	257+00.00	78.00'
TLE 562	256+50.00	58.00'
TLE 563	255+80.37	66.03'
TLE 564	253+97.05	64.09'
TLE 565	258+00.00	78.00'

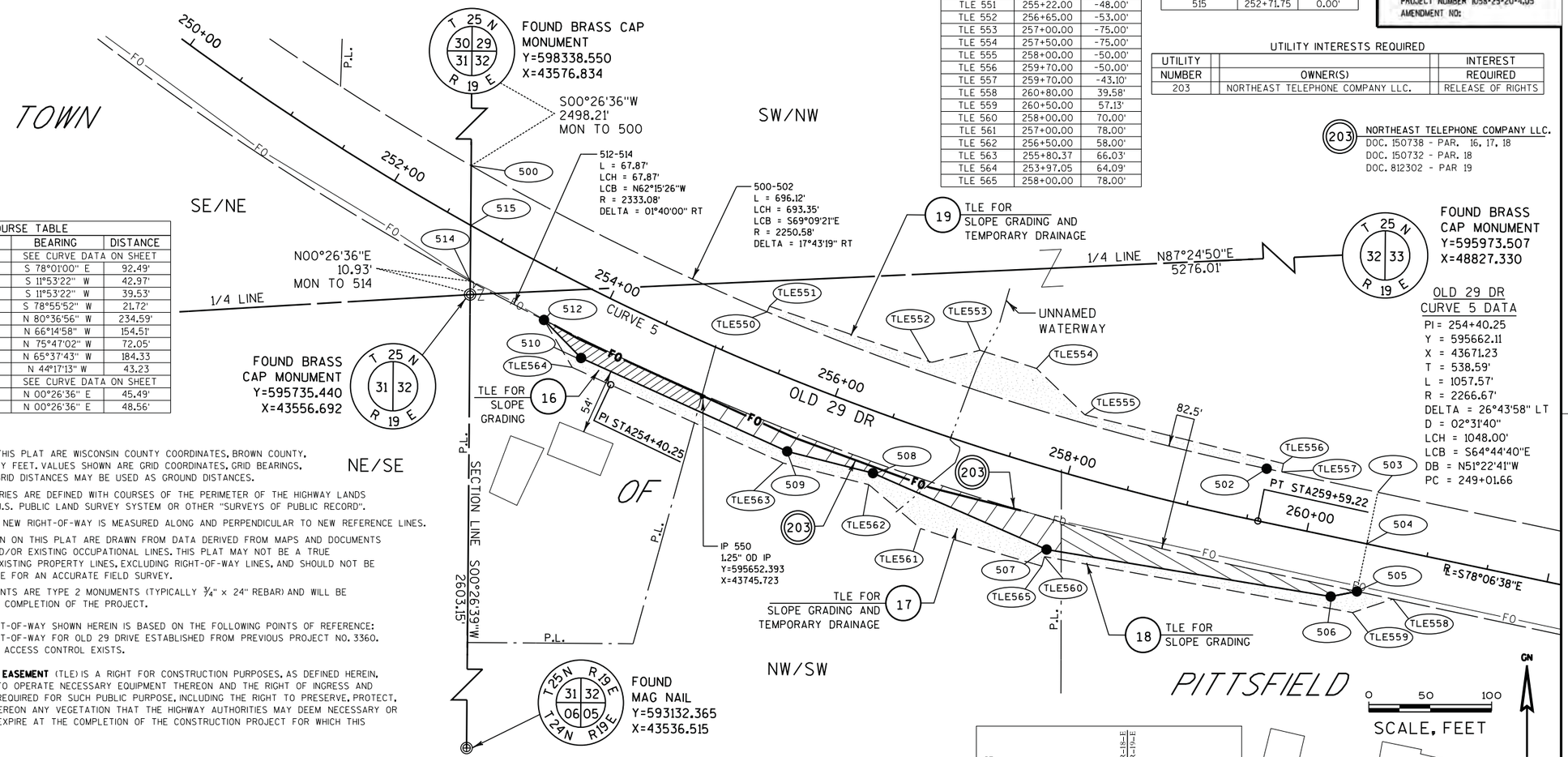
2732360
CATHY WILLIQUETTE LINDSAY
BROWN COUNTY RECORDER
GREEN BAY, WI
RECORDED ON
01/26/2016 9:22 AM
REC FEE: 25.00
EXEMPT #
PAGES: 1
The above recording information verifies that this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1058-25-20-4.05
AMENDMENT NO:

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
203	NORTHEAST TELEPHONE COMPANY LLC.	RELEASE OF RIGHTS

203 NORTHEAST TELEPHONE COMPANY LLC.
DOC. 150738 - PAR. 16, 17, 18
DOC. 150732 - PAR. 18
DOC. 812302 - PAR 19



OLD 29 DR CURVE 5 DATA

PI = 254+40.25
Y = 595662.11
X = 43671.23
T = 538.59'
L = 1057.57'
R = 2266.67'
DELTA = 26°43'58" LT
D = 02°31'40"
LCH = 1048.00'
LCB = S64°44'40"E
DB = N51°22'41"W
PC = 249+01.66

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, BROWN COUNTY, NAD 83 (1991) IN SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

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

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

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

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY ¾" x 24" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR OLD 29 DRIVE ESTABLISHED FROM PREVIOUS PROJECT NO. 3360. NO PREVIOUS EXISTING ACCESS CONTROL EXISTS.

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

COURSE TABLE		
COURSE	BEARING	DISTANCE
500-502	SEE CURVE DATA ON SHEET	
502-503	S 78°01'00" E	92.49'
503-504	S 11°53'22" W	42.97'
504-505	S 11°53'22" W	39.53'
505-506	S 78°55'52" W	21.72'
506-507	N 80°36'56" W	234.59'
507-508	N 66°14'58" W	154.51'
508-509	N 75°47'02" W	72.05'
509-510	N 65°37'43" W	184.33
510-512	N 44°17'13" W	43.23
512-514	SEE CURVE DATA ON SHEET	
514-515	N 00°26'36" E	45.49'
515-500	N 00°26'36" E	48.56'

CONVENTIONAL SYMBOLS

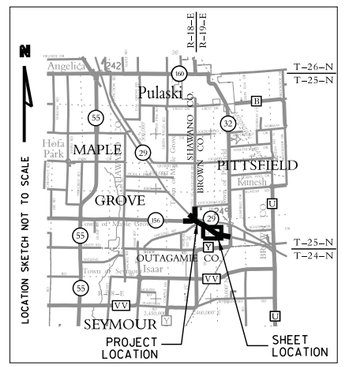
- FOUND IRON PIPE/PIN (1" UNLESS NOTED)
- R/W MONUMENT
- R/W STANDARD
- SIGN
- SECTION CORNER MONUMENT
- SECTION CORNER SYMBOL
- FEE (HATCH VARIES)
- TEMPORARY LIMITED EASEMENT
- PERMANENT LIMITED EASEMENT
- R/W BOUNDARY POINT (RWB20)
- PARCEL NUMBER (102)
- UTILITY NUMBER (40)
- SIGN NUMBER (OFF PREMISE) (21-1)
- BUILDING
- PROPOSED R/W LINE
- EXISTING H.E. LINE
- PROPERTY LINE
- LOT & TIE LINES
- SLOPE INTERCEPTS
- CORPORATE LIMITS
- RESTRICTED ACCESS (BY PREVIOUS ACQUISITION/CONTROL)
- RESTRICTED ACCESS (BY ACQUISITION)
- NO ACCESS (BY STATUTORY AUTHORITY)
- SECTION LINE
- QUARTER LINE
- SIXTEENTH LINE
- EXISTING CENTERLINE
- PROPOSED REFERENCE LINE
- PARALLEL OFFSET

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	REFERENCE LINE	R/L
ACCESS RIGHTS	AR	RELEASE OF RIGHTS	ROR
ACRES	AC.	REMAINING	REM.
AND OTHERS	ET.AL.	RIGHT-OF-WAY	R/W
CENTERLINE	C/L	SECTION	SEC.
CERTIFIED SURVEY MAP	CSM	STATION	STA.
CORNER	COR.	TEMPORARY LIMITED EASEMENT	TLE
DOCUMENT	DOC.	VOLUME	V.
EASEMENT	EASE.	**CURVE DATA**	
HIGHWAY EASEMENT	H.E.	LONG CHORD	LCH
LAND CONTRACT	LC	LONG CHORD BEARING	LCB
MONUMENT	MON.	RADIUS	R
PAGE	P.	DEGREE OF CURVE	D
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	DELTA
PROPERTY LINE	PL	LENGTH OF CURVE	L
RECORDED AS	(100')	TANGENT	TAN

CONVENTIONAL UTILITY SYMBOLS

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



emcs.llc

I, KEVIN C. BOYER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1058-25-20-4.05 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN KEVIN C BOYER S-2675 HEWITT WI LAND SURVEYOR

Kevin C. Boyer DATE: 1/13/2016
KEVIN C. BOYER
PROFESSIONAL LAND SURVEYOR NUMBER 2675

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION
Brent L Stella DATE: 1-13-16
(SIGNATURE)
(PRINTED NAME) Brent L Stella

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\TPP\STH 29\040105_rp.dgn PLOT DATE : 1/13/2016 PLOT BY : kcb PLOT NAME : PLOT SCALE : 1:50
APPRAISAL PLAT DATE :

DEPARTMENT COMPOSITE ORIGINAL LOCATED AT THE REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 1058-25-20-4.06

THAT PART OF THE NORTHEAST 1/4 OF THE SOUTHWEST 1/4 AND THE NORTHWEST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 32, TOWNSHIP 25 NORTH, RANGE 19 EAST, TOWN OF PITTSFIELD, BROWN COUNTY, WISCONSIN.

RELOCATION ORDER STH 29 & STH 156 INTERSECTION, BROWN COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

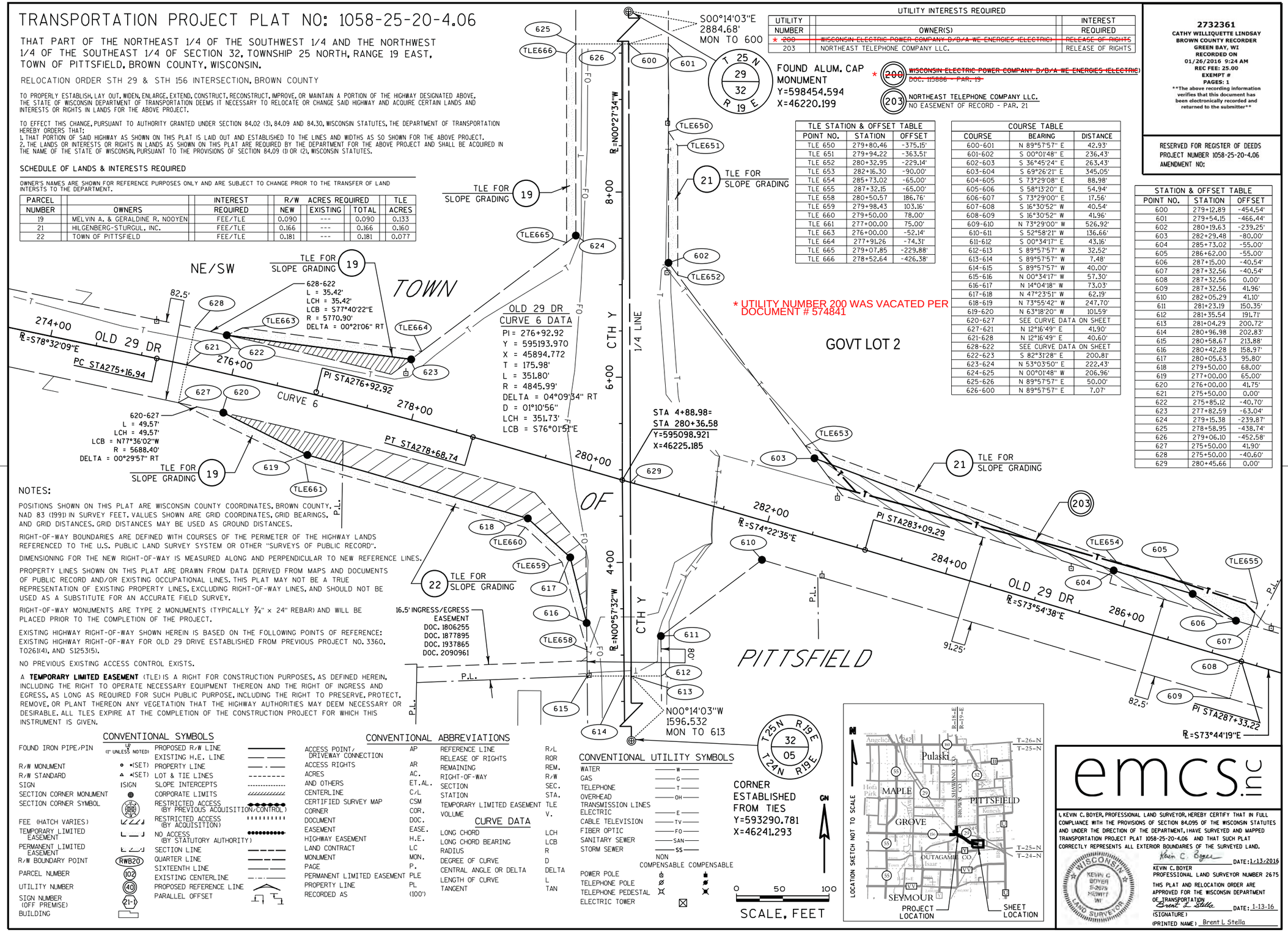
PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
19	MELVIN A. & GERALDINE R. NOOYEN	FEE/TLE	0.090	---	0.090	0.133
21	HILGENBERG-STURGUL, INC.	FEE/TLE	0.166	---	0.166	0.160
22	TOWN OF PITTSFIELD	FEE/TLE	0.181	---	0.181	0.077

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
~~* 200~~	~~WISCONSIN ELECTRIC POWER COMPANY D/B/A WE ENERGIES (ELECTRIC)~~	~~RELEASE OF RIGHTS~~
203	NORTHEAST TELEPHONE COMPANY LLC.	RELEASE OF RIGHTS

2732361
CATHY WILLIQUETTE LINDSAY
BROWN COUNTY RECORDER
GREEN BAY, WI
RECORDED ON
01/26/2016 9:24 AM
REC FEE: 25.00
EXEMPT #
PAGES: 1
The above recording information verifies that this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1058-25-20-4.06
AMENDMENT NO:



* UTILITY NUMBER 200 WAS VACATED PER DOCUMENT # 574841

TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE 650	279+80.46	-375.15'
TLE 651	279+94.22	-363.51'
TLE 652	280+32.95	-229.14'
TLE 653	282+16.30	-90.00'
TLE 654	285+73.02	-65.00'
TLE 655	287+32.15	-65.00'
TLE 658	280+50.57	186.76'
TLE 659	279+98.43	103.16'
TLE 660	279+50.00	78.00'
TLE 661	277+00.00	75.00'
TLE 663	276+00.00	-52.14'
TLE 664	277+91.26	-74.31'
TLE 665	279+07.85	-229.88'
TLE 666	278+52.64	-426.38'

COURSE TABLE		
COURSE	BEARING	DISTANCE
600-601	N 89°57'57" E	42.93'
601-602	S 00°01'48" E	236.43'
602-603	S 36°45'24" E	263.43'
603-604	S 69°26'21" E	345.05'
604-605	S 73°29'08" E	88.98'
605-606	S 58°13'20" E	54.94'
606-607	S 73°29'00" E	17.56'
607-608	S 16°30'52" W	40.54'
608-609	S 16°30'52" W	41.96'
609-610	N 73°29'00" W	526.92'
610-611	S 52°58'21" W	136.66'
611-612	S 00°34'17" E	43.16'
612-613	S 89°57'57" W	32.52'
613-614	S 89°57'57" W	7.48'
614-615	S 89°57'57" W	40.00'
615-616	N 00°34'17" W	57.30'
616-617	N 14°04'18" W	73.03'
617-618	N 47°23'51" W	62.19'
618-619	N 73°55'42" W	247.70'
619-620	N 63°18'20" W	101.59'
620-627	SEE CURVE DATA ON SHEET	
627-621	N 12°16'49" E	41.90'
621-628	N 12°16'49" E	40.60'
628-622	SEE CURVE DATA ON SHEET	
622-623	S 82°31'28" E	200.81'
623-624	N 53°03'50" E	222.43'
624-625	N 00°01'48" W	206.96'
625-626	N 89°57'57" E	50.00'
626-600	N 89°57'57" E	7.07'

STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
600	279+12.89	-454.54'
601	279+54.15	-466.44'
602	280+19.63	-239.25'
603	282+29.48	-80.00'
604	285+73.02	-55.00'
605	286+62.00	-55.00'
606	287+15.00	-40.54'
607	287+32.56	-40.54'
608	287+32.56	0.00'
609	287+32.56	41.96'
610	282+05.29	41.10'
611	281+23.19	150.35'
612	281+35.54	191.71'
613	281+04.29	200.72'
614	280+96.98	202.83'
615	280+58.67	213.88'
616	280+42.28	158.97'
617	280+05.63	95.80'
618	279+50.00	68.00'
619	277+00.00	65.00'
620	276+00.00	41.75'
621	275+50.00	0.00'
622	275+85.12	-40.70'
623	277+82.59	-63.04'
624	279+15.38	-239.87'
625	278+58.95	-438.74'
626	279+06.10	-452.58'
627	275+50.00	41.90'
628	275+50.00	-40.60'
629	280+45.66	0.00'

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, BROWN COUNTY, NAD 83 (1991) IN SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

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

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

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

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY ¾" x 24" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR OLD 29 DRIVE ESTABLISHED FROM PREVIOUS PROJECT NO. 3360, TO261(4), AND S1253(5).

NO PREVIOUS EXISTING ACCESS CONTROL EXISTS.

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

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN — LF (1" UNLESS NOTED)
R/W MONUMENT — ●(SET)
R/W STANDARD — ▲(SET)
SIGN — ISIGN
SECTION CORNER MONUMENT
SECTION CORNER SYMBOL
FEE (HATCH VARIES)
TEMPORARY LIMITED EASEMENT
PERMANENT LIMITED EASEMENT
R/W BOUNDARY POINT — RWB20
PARCEL NUMBER — 102
UTILITY NUMBER — 40
SIGN NUMBER (OFF PREMISE) — 21-1
BUILDING

PROPOSED R/W LINE
EXISTING H.E. LINE
PROPERTY LINE
LOT & TIE LINES
SLOPE INTERCEPTS
CORPORATE LIMITS
RESTRICTED ACCESS (BY PREVIOUS ACQUISITION/CONTROL)
RESTRICTED ACCESS (BY ACQUISITION)
NO ACCESS (BY STATUTORY AUTHORITY)
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
EXISTING CENTERLINE
PROPOSED REFERENCE LINE
PARALLEL OFFSET

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	REFERENCE LINE	R/L
ACCESS RIGHTS	AR	RELEASE OF RIGHTS	ROR
ACRES	AC.	REMAINING	REM.
AND OTHERS	ET.AL.	RIGHT-OF-WAY	R/W
CENTERLINE	C/L	SECTION	SEC.
CERTIFIED SURVEY MAP	CSM	STATION	STA.
CORNER	COR.	TEMPORARY LIMITED EASEMENT	TLE
DOCUMENT	DOC.	VOLUME	V.
EASEMENT	EASE.	**CURVE DATA**	
HIGHWAY EASEMENT	H.E.	LONG CHORD	LCH
LAND CONTRACT	LC	LONG CHORD BEARING	LCB
MONUMENT	MON.	RADIUS	R
PAGE	P.	DEGREE OF CURVE	D
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	DELTA
PROPERTY LINE	PL	LENGTH OF CURVE	L
RECORDED AS	(100')	TANGENT	TAN

CONVENTIONAL UTILITY SYMBOLS

	NON COMPENSABLE	COMPENSABLE
WATER		W
GAS		G
TELEPHONE		T
OVERHEAD TRANSMISSION LINES		OH
ELECTRIC		E
CABLE TELEVISION		TV
FIBER OPTIC		FO
SANITARY SEWER		SAN
STORM SEWER		SS
POWER POLE	●	●
TELEPHONE POLE	⌀	⌀
TELEPHONE PEDESTAL	⌑	⌑
ELECTRIC TOWER	⊠	

emcs.llc

I, KEVIN C. BOYER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1058-25-20-4.06 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

Kevin C. Boyer DATE: 1/13/2016
KEVIN C. BOYER
PROFESSIONAL LAND SURVEYOR NUMBER 2675

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

Brent L Stella DATE: 1-13-16
(SIGNATURE)
(PRINTED NAME) Brent L Stella

WISCONSIN KEVIN C BOYER S-2675 HEWITT WI LAND SURVEYOR

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\TPP\STH 29\040106_rp.dgn PLOT DATE : 1/13/2016 PLOT BY : kcb PLOT NAME : PLOT SCALE : 1:50
APPRAISAL PLAT DATE :

1058-25-20-4.06

PROPOSED WORK
STA 196+50 - STA 209+00
PAVEMENT RECONSTRUCTION

LEGEND
- DELINEATED WETLAND BOUNDARY
- X CLEARING & GRUBBING
- SLOPE INTERCEPT
- REMOVE EXISTING ROADWAYS

N

BEGIN CONSTRUCTION
STH 156
STA 196+50.00
MATCH PROJECT 6580-11-60
BEGIN PAVEMENT RECONSTRUCTION
SAWCUT REQ'D

SEE INTERSECTION DETAILS FOR MORE INFORMATION

PROP RW
PC STA11A+44.42
12°A'1.00
ST. AUGUSTINE RD
N 0°35'46" E
PROP RW

BEGIN CONSTRUCTION
ST. AUGUSTINE RD
STA 10'A'+24.00
MATCH STH 156

BAUMGART MARITAL TRUST
WISCONSIN PUBLIC SERVICE (GAS)
NORTHEAST TELEPHONE COMPANY, LLC (COMMUNICATIONS)
118' LT
28' WIDE
BASE AGG FE
EXISTING STH 156
EXISTING OLD 29 DR
CAUTION
STA 204+27, LT
1-24" CPCS REQ'D
2-24" AEW REQ'D
PC STA206+22.22
T25N R19E
25 30 36 31
LANDMARK REFERENCE MONUMENTS (BY OTHERS)

194+00 STH 156 196+00 198+00 200+00 202+00 204+00 206+00 208+00
S 89°13'55" E
S 89°21'38" E

BM 603A
PI STA196+04.26
TLE
RW
PROP RW
45' RT
ASPH PE
STA 197+18, RT
REMOVE 1-18" CPCS
STA 197+18, RT
1-18" CPCS REQ'D
2-18" AEW REQ'D
BM 603
CONTROL POINT 503
Y=205464.79
X=953944.45
0.75"X24" IRON REBAR WITH
BLUE EMCS CONTROL CAP
QWEST COMMUNICATIONS (COMMUNICATIONS)
WE ENERGIES (ELECTRIC DISTRIBUTION)
STA 198+43.62= STA 10'A'+00.00
DRAIN TILE EXPLORATION (EXISTING DRAIN TILE SHOULD DRAIN TO PROPOSED DITCH)
TLE 60' RT 28' WIDE
BASE AGG FE
STA 204+27, RT
1-24" CPCS REQ'D
2-24" AEW REQ'D
GUY
MOJO'S POLISH PICKLE, LLC
REMOVING BUILDINGS (PARCEL 13)
SITE CLEARANCE (PARCEL 13)

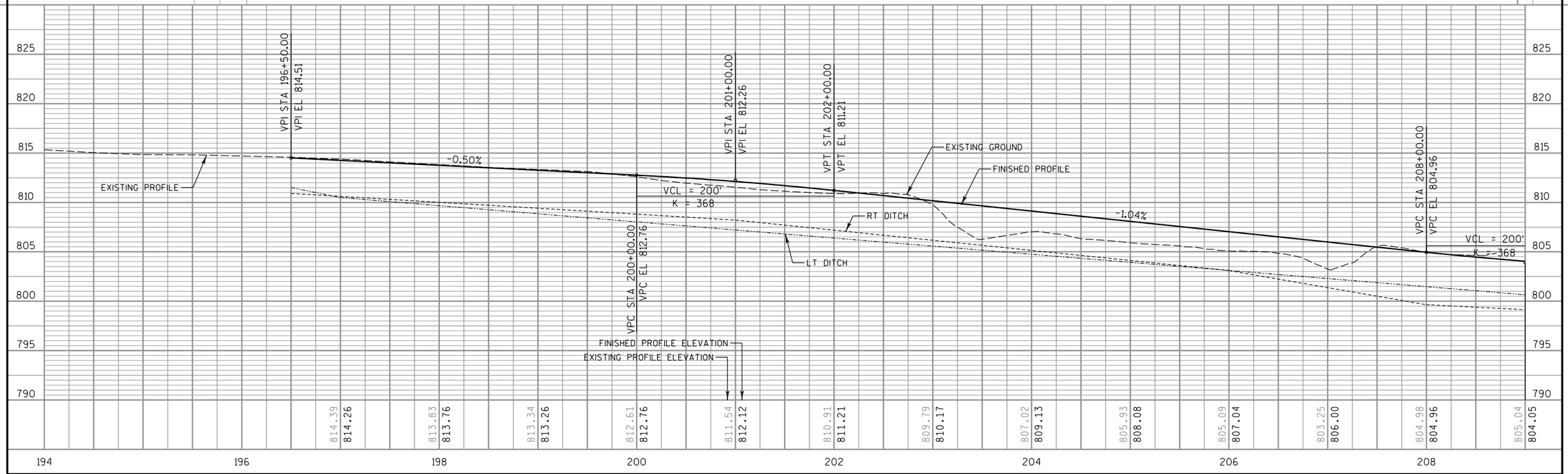
SEE PROJECT 6580-11-60
MILL & HMA OVERLAY

JAMES J & MARGARET VANDEN ENG LIVING TRUST
ALBERT M NOOYEN
SHAWANO COUNTY
BROWN COUNTY

BENCH MARK

NO.	STATION	DESCRIPTION	ELEV.
603	199+44, 36' RT	RR SPK IN POWER POLE	812.51
603A	194+79, 36' RT	RR SPK IN POWER POLE	813.03

PERMITTED WETLAND IMPACTS



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	PLAN & PROFILE - STH 156	SHEET E

PROPOSED WORK
STA 209+00 - STA 217+50
PAVEMENT RECONSTRUCTION
STA 215+97
CONSTRUCT B-5-435
STA 217+50 - STA 224+00
MILL AND HMA OVERLAY

LEGEND
- DELINEATED WETLAND BOUNDARY
- X CLEARING & GRUBBING
- SLOPE INTERCEPT
- REMOVE EXISTING ROADWAYS

N

HUBEN PROPERTIES LLC

BROWN COUNTY STH 29 EXCESS RW

STA 215+97
REMOVING OLD STRUCTURE (C-5-54)
55' OVERALL LENGTH
16' OVERALL WIDTH
STA 215+97
STRUCTURE B-5-435 REQ'D
4'H X 10'W 2-CELL BOX CULVERT
SKEW 0° RHF

THOMAS M & CHRISTINE SNIDER

HOG INVESTMENTS LLP

EXISTING CULVERT TO REMAIN

BASE AGG CE

STA 210+52, LT
1-24" CPCS REQ'D
2-24" AEW REQ'D

WISCONSIN PUBLIC SERVICE (GAS)

STA 214+79 - STA 217+47, LT
STA 214+48 - STA 217+15, RT
MGS GUARDRAIL 3 L
MGS GUARDRAIL 3
MGS GUARDRAIL TERMINAL EAT
(SEE STANDARD DETAIL DRAWINGS)

BM 601
SALVAGED RAIL & SALVAGE GUARDRAIL END TREATMENTS

CONTROL POINT 501
Y=205117.03
X=955719.04
0.75"X24" IRON REBAR WITH BLUE EMCS CONTROL CAP

WE ENERGIES (ELECTRIC DISTRIBUTION)

NORTHEAST TELEPHONE COMPANY, LLC (COMMUNICATIONS)

EXISTING OLD 29 DR

STH 156

PT STA213+06.98

PC STA215+61.29

PT STA219+58.57

STH 156/OLD 29 DR

S 59°51'41" E

S 63°50'49" E

PROP RW

SALVAGED RAIL & SALVAGE GUARDRAIL END TREATMENTS

NORTHEAST TELEPHONE COMPANY, LLC (COMMUNICATIONS)

ALBERT M NOOYEN

DAVID KRUEGER

BAUMGART MARITAL TRUST

W BRANCH OF SUAMICO RIVER

ANGLE DR

BROWN SHAWANO COUNTY

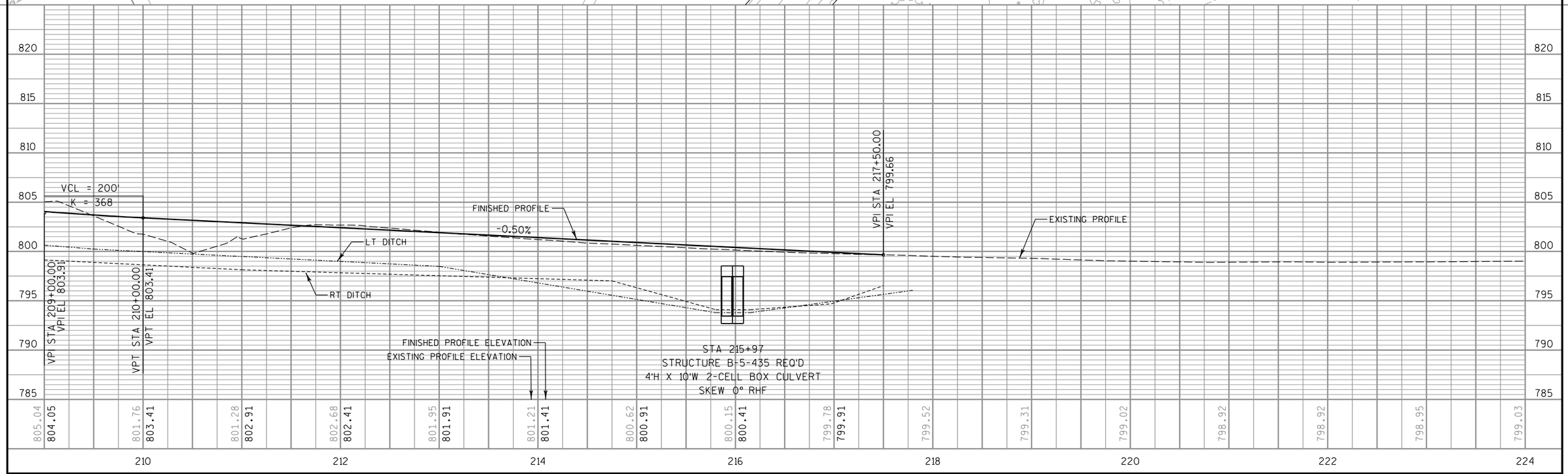
STA 217+50
END PAVEMENT RECONSTRUCTION
BEGIN MILL & HMA OVERLAY
SAWCUT REQ'D

END CONSTRUCTION
75' RT
BUTT JOINT REQ'D

PERMITTED WETLAND IMPACTS

BENCH MARK

NO.	STATION	DESCRIPTION	ELEV.
601	216+05, 25'LT	RR SPK IN POWER POLE	799.27



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	PLAN & PROFILE - STH 156/OLD 29 DR	SHEET E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\050102_pp.dgn
PLOT DATE : 11/29/2016
PLOT BY : sgc
PLOT NAME :
PLOT SCALE : 1:100

PROPOSED WORK
STA 224+00 - STA 239+00
MILL AND HMA OVERLAY

LEGEND
DELINEATED WETLAND BOUNDARY

N

5

5

DIEDERICK TRUCK REPAIR INC

RYAN S BUECHNER

WILLBERT & SHARON HOLL

BAUMGART MARITAL TRUST

WILCOX TRUST

WILCOX TRUST

MELVIN NOOYEN

WISCONSIN PUBLIC SERVICE
(GAS)

NORTHEAST TELEPHONE COMPANY, LLC
(COMMUNICATIONS)

NORTHEAST TELEPHONE COMPANY, LLC
(COMMUNICATIONS)

WISCONSIN PUBLIC SERVICE
(ELECTRIC DISTRIBUTION)

PC STA228+67.73

PT STA231+84.39

STH 156/OLD 29 DR

S 63°50'49" E

S 51°48'12" E

224+00

226+00

228+00

230+00

232+00

234+00

236+00

238+00

BASE AGG CE

BASE AGG FE

BASE AGG PE

ASPH PE

RW

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	PLAN - STH 156/OLD 29 DR	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\050103_pn.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 44

PROPOSED WORK
STA 239+00 - STA 253+89
MILL AND HMA OVERLAY

LEGEND
- DELINEATED WETLAND BOUNDARY
- SLOPE INTERCEPT

N

5

5

WILLBERT & SHARON HOLL

COREY C PIERNER

TAMMY L & CHRIS A JAMES ETAL

RALPH M & DEBRA A DIEDERICH

MELVIN NOOYEN

STA 253+89
END MILL & HMA OVERLAY
BEGIN PAVEMENT RECONSTRUCTION
SAWCUT REQ'D

NORTHEAST TELEPHONE COMPANY, LLC
(COMMUNICATIONS)

WISCONSIN PUBLIC SERVICE
(GAS)

WISCONSIN PUBLIC SERVICE
(ELECTRIC DISTRIBUTION)

BASE AGG FE

ASPH PE

BASE AGG PE

RROP RW TLE

RW

240+00 242+00 244+00 246+00 248+00 250+00 252+00 254+00

S 51°48'12" E

STH 156/OLD 29 DR

PC STA249+01.66

NORTHEAST TELEPHONE COMPANY, LLC
(COMMUNICATIONS)

MELVIN & GERALDINE NOOYEN

T 25 N
R 19 E
31 32

DO NOT DISTURB
LANDMARK REFERENCE MONUMENTS
(BY OTHERS)

MELVIN NOOYEN

STA 253+80, RT
REMOVE 1-18" CPCS
STA 253+80, RT
1-18" CPCS REQ'D
2-18" AEW REQ'D

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	PLAN - STH 156/OLD 29 DR	SHEET	E

PROPOSED WORK
STA 253+89 - STA 260+54
PAVEMENT RECONSTRUCTION
STA 215+35
CONSTRUCT C-5-151 BOX CULVERT
STA 260+54 - STA 269+00
MILL AND HMA OVERLAY

STA 257+25
REMOVING OLD STRUCTURE
42' OVERALL LENGTH
5'8" OVERALL WIDTH

STA 257+35
STRUCTURE C-5-151 REQ'D
4'H X 12'W 1-CELL BOX CULVERT
SKEW 5° RHF

BENCH MARK

NO.	STATION	DESCRIPTION	ELEV.
600	257+22, 21' LT	RR SPK IN POWER POLE	787.03

LEGEND
- DELINEATED WETLAND BOUNDARY
- SLOPE INTERCEPT
- X CLEARING & GRUBBING

N

STA 253+89
END MILL & HMA OVERLAY
BEGIN PAVEMENT RECONSTRUCTION
SAWCUT REQ'D

CONTROL POINT 500
Y=203029.97
X=959054.70
0.75"X24" IRON REBAR WITH
BLUE EMCS CONTROL CAP

BM 600

SALVAGED RAIL & SALVAGE GUARDRAIL END TREATMENTS

STA 256+10 - STA 258+93, LT
MGS GUARDRAIL 3 L
MGS GUARDRAIL 3
MGS GUARDRAIL TERMINAL EAT
GUARDRAIL MOW STRIP EMULSIFIED ASPHALT (LT ONLY)
(SEE STANDARD DETAIL DRAWINGS)

ANR PIPELINE COMPANY (GAS)

WISCONSIN PUBLIC SERVICE (GAS)

NORTHEAST TELEPHONE COMPANY, LLC (COMMUNICATIONS)

WISCONSIN PUBLIC SERVICE (ELECTRIC DISTRIBUTION)

PT STA259+59.22

STA 260+54
END PAVEMENT RECONSTRUCTION
BEGIN MILL & HMA OVERLAY
SAWCUT REQ'D

NORTHEAST TELEPHONE COMPANY, LLC (COMMUNICATIONS)

STH 156/OLD 29 DR
S 78°32'09" E

MELVIN NOOYEN
TAMMY NOOYEN
TAMMY NOOYEN ETAL
MARY K GANSBERG
DAVID O KLAPPER
JOHN J & BETTY J SCHINKTGEN
RYAN DERKS

UNNAMED TRIBUTARY TO THE W BRANCH OF SUAMICO RIVER

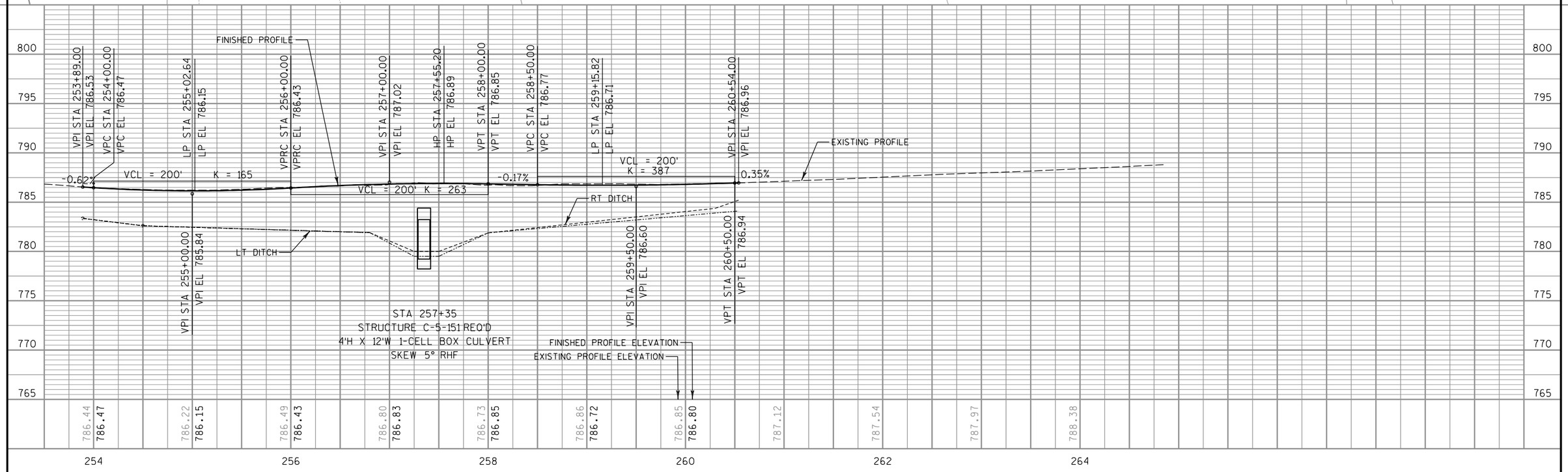
STA 253+80, RT
REMOVE 1-18" CPCS
STA 253+80, RT
1-18" CPCS REQ'D
2-18" AEW REQ'D

STA 255+79 - STA 257+84, RT
STEEL PLATE BEAM GUARD OVER LOW FILL CULVERTS CLASS A
STEEL PLATE BEAM GUARD SHORT RADIUS
STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
(SEE STANDARD DETAIL DRAWINGS)

STA 257+89, RT
REMOVE 1-12" CPCS
STA 257+95, RT
1-24" CPCS REQ'D
2-24" AEW REQ'D

STA 258+25 - STA 259+42, RT
MGS GUARDRAIL 3
MGS GUARDRAIL TERMINAL EAT
(SEE STANDARD DETAIL DRAWINGS)

PERMITTED WETLAND IMPACTS



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	PLAN & PROFILE - STH 156/OLD 29 DR	SHEET E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\050105_pp.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 40

PROPOSED WORK
STA 269+00 - STA 276+25
MILL AND HMA OVERLAY
STA 276+25 - STA 284+00
PAVEMENT RECONSTRUCTION

N

LEGEND
-·-·- DELINEATED WETLAND BOUNDARY
----- SLOPE INTERCEPT

BENCH MARK

NO.	STATION	DESCRIPTION	ELEV.
606	277+81.46'LT	RR SPK IN POWER POLE	777.81

MELVIN & GERALDINE NOOYEN

NORTHEAST TELEPHONE COMPANY, LLC (COMMUNICATIONS)

REMOVING FENCE

WISCONSIN PUBLIC SERVICE (ELECTRIC DISTRIBUTION)

WISCONSIN PUBLIC SERVICE (GAS)

BASE AGG PE

BASE AGG FE

TLE

PROP RW

RW

270+00 272+00 274+00 STH 156/OLD 29 DR 276+00 278+00 280+00 282+00 284+00

S 78°32'09" E

PC STA275+16.94

PT STA278+68.74

STA 280+36.58 = STA 4'Y'+88.99

S 74°22'35" E

S 73°54'38" E

PI STA283+09.29

BM 606

UPLAND AREA

HILGENBERG STURGUL INC.

STA 5'Y'+49
REMOVE 1-24"X18" CPCS
STA 6'Y'+07
1-24"x38" CPRCHE
CLASS IV REQ'D
2-24"x38" AEW REQ'D
SKEW 0° RHF
2-MARKERS FOR
CULVERT END REQ'D

STORM SEWER (SEE INTERSECTION DETAIL)

STH 156 N 02°12'32" W

CTH Y N 05°15'01" W

67Y+00

47Y+00

CAUTION

STA 276+25
END MILL & HMA OVERLAY
BEGIN PAVEMENT RECONSTRUCTION
SAWCUT REQ'D

STA 282+50
END PAVEMENT RECONSTRUCTION
SAWCUT REQ'D

STA 4'Y'+49
REMOVE 1-24"X18" CPCS
STA 4'Y'+38
1-24"x38" CPRCHE
CLASS IV REQ'D
2-24"x38" AEW REQ'D
SKEW 16° LHF
2-MARKERS FOR
CULVERT END REQ'D

CONTROL POINT 506
Y=202473.41
X=961247.41
0.75"X24" IRON REBAR WITH
BLUE EMCS CONTROL CAP

TOWN OF PITTSFIELD

LESTER F & BONNIE KRANING

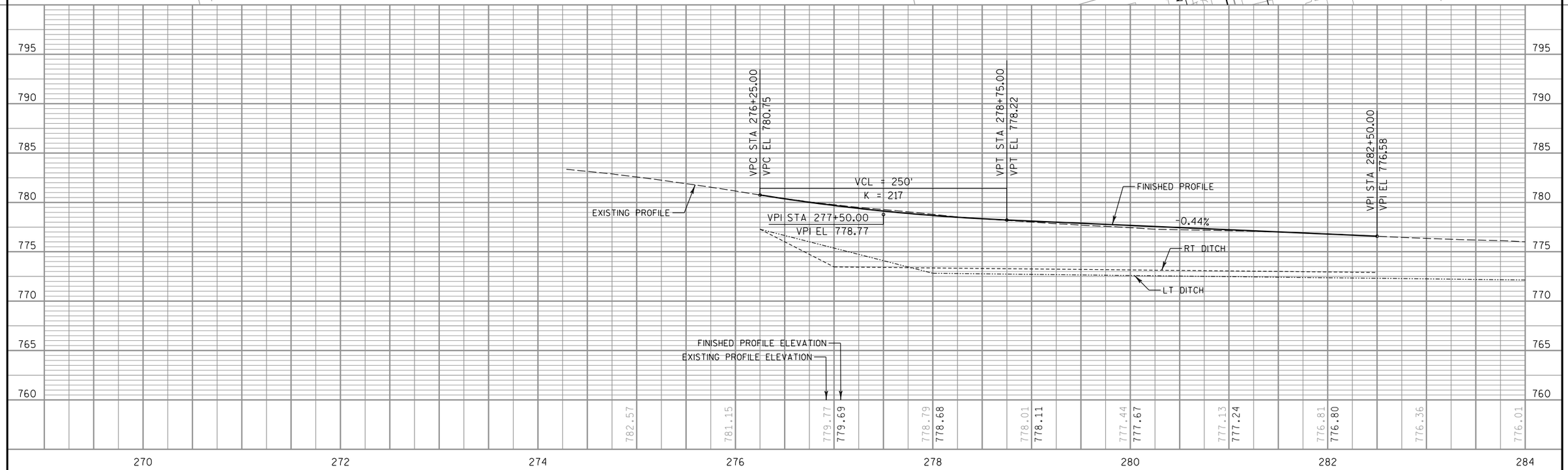
ONEIDA NATION PROPERTY (NO WORK IN THIS AREA)

RYAN DERKS

PERMITTED WETLAND IMPACTS

5

5



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	PLAN & PROFILE - STH 156/OLD 29 DR	SHEET	E

PROPOSED WORK
STA 284+00 - STA 286+59.26
PAVEMENT RECONSTRUCTION
FOR RIGHT TURN LANE

HILGENBERG STURGUL INC.

NORTHEAST TELEPHONE COMPANY, LLC
(COMMUNICATIONS)

WISCONSIN PUBLIC SERVICE
(GAS)

WISCONSIN PUBLIC SERVICE
(ELECTRIC DISTRIBUTION)

TLE
PROP RW
RW
HO
CAUTION
BASE
AGG
FE
284+00
286+00
288+00
290+00
292+00
294+00
296+00
298+00
S 73°54'38" E
OLD 29 DR
S 74°09'50" E
S 78°18'27" E
PI STA287+33.22
Y=202297.42
X=961982.97
Y=202207.642
X=962299.476
PC STA290+62.21
PT STA296+85.05

END CONSTRUCTION
OLD 29 DR
STA 286+59.26
SAWCUT REQ'D
MATCH EXISTING

ONEIDA NATION PROPERTY (NO WORK IN THIS AREA)

N

LEGEND
- DELINEATED WETLAND BOUNDARY
- SLOPE INTERCEPT

PERMITTED WETLAND IMPACTS

5

5

790
785
780
775
770
765
760
755

EXISTING PROFILE
LT DITCH
EXISTING PROFILE ELEVATION

776.01
775.51
775.08
774.71
774.39

284
286
288
290

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	PLAN & PROFILE - OLD 29 DR	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\050107_pp.dgn
PLOT DATE : 11/29/2016
PLOT BY : sgc
PLOT NAME :
PLOT SCALE : 1:100
WISDOT/CADDS SHEET 40

PROPOSED WORK
STA 3'Y'+17 - STA 10'Y'+67
PAVEMENT RECONSTRUCTION
STA 8'Y'+50 - STA 12'Y'+92
MILL AND HMA OVERLAY

BM 606

STA 5'Y'+49
REMOVE 1-24"X18" CPCS
STA 6'Y'+07
1-24"x38" CPRCHE
CLASS IV REQ'D
2-24"x38" AEW REQ'D
SKEW 0° RHF
2-MARKERS FOR
CULVERT END REQ'D

BENCH MARK

NO.	STATION	DESCRIPTION	ELEV.
606	277+81.46'LT	RR SPK IN POWER POLE	777.81
607	13'Y'+76.60'RT	SET CHISELED SQUARE ON OLD SIGN FOOTING	779.00

LEGEND
- DELINEATED WETLAND BOUNDARY
- SLOPE INTERCEPT

TOWN OF PITTSFIELD

CASEY B CORNELIUS

CONTROL POINT 506
Y=202473.41
X=961247.41
0.75"X24" IRON REBAR WITH
BLUE EMCS CONTROL CAP

STH 156/OLD 29 DR
S 14°21'18.68"E
280+00

MELVIN & GERALDINE NOOYEN

REMOVING FENCE

NORTHEAST TELEPHONE COMPANY, LLC
(COMMUNICATIONS)

STA 10'Y'+67
END PAVEMENT RECONSTRUCTION
BEGIN MILL & HMA OVERLAY
SAWCUT REQ'D

MELVIN & GERALDINE NOOYEN

END CONSTRUCTION
STH 156
STA 12'Y'+92.00
END MILL & HMA OVERLAY
BUTTJOINT REQ'D
MATCH EXISTING

1'Y'+00 CTH Y 2'Y'+00 4'Y'+00 6'Y'+00 8'Y'+00 10'Y'+00 12'Y'+00 14'Y'+00 STH 156 16'Y'+00

N 0°57'32" W N 0°27'34" W

STA 4'Y'+88.99=
STA 280+36.58

BEGIN CONSTRUCTION
CTH Y
STA 3'Y'+17.00
BEGIN PAVEMENT RECONSTRUCTION
SAWCUT REQ'D
MATCH EXISTING

LESTER F & BONNIE KRANING

OLD 29 DR
S 14°22'35" E
282+00

BASE AGG FE

WISCONSIN PUBLIC SERVICE
(GAS)

STA 8'Y'+50
END PAVEMENT RECONSTRUCTION
BEGIN MILL & HMA OVERLAY
SAWCUT REQ'D

BASE AGG PE | BASE AGG CE | BASE AGG CE

CONTROL POINT 507
Y=203382.09
X=961351.32
0.75"X24" IRON REBAR WITH
BLUE EMCS CONTROL CAP

BM 607

NORTHEAST TELEPHONE
COMPANY, LLC
(COMMUNICATIONS)

WISCONSIN PUBLIC SERVICE
(ELECTRIC DISTRIBUTION)

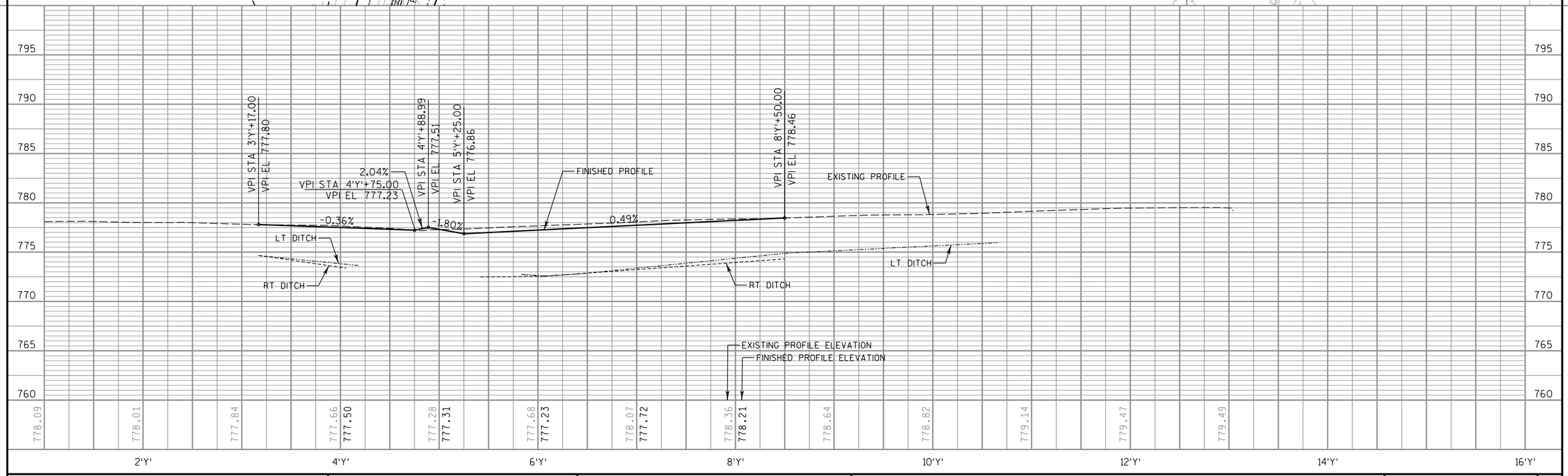
STORM SEWER
(SEE INTERSECTION DETAIL)

HILGENBERG STURGUL INC.

BEVERLY M. ARNDT ETAL

JOHN F. & KAREN BINKOWSKI

PERMITTED WETLAND IMPACTS



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	PLAN & PROFILE - STH 156/CTH Y	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\050108_pp.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 40

PROPOSED WORK
STA 10'A'+24 - STA 25'A'+00
PAVEMENT RECONSTRUCTION
STA 19'A'+80.60
CONSTRUCT B-58-129 STRUCTURE
STA 17'A'+73 - STA 22'A'+26, LT
STA 17'A'+48 - STA 22'A'+01, RT
CONSTRUCT GUARDRAIL

LEGEND
- DELINEATED WETLAND BOUNDARY
- SLOPE INTERCEPT
- X CLEARING & GRUBBING

N

BAUMGART MARITAL TRUST

STA 16'A'+50
1-24" CPRC CLASS IV REQ'D
2-24" AEW REQ'D
0° RHF
2-MARKERS FOR CULVERT END REQ'D

STA 17'A'+69 - STA 18'A'+61, LT
MGS THRIE BEAM TRANSITION
MGS GUARDRAIL TERMINAL EAT
(SEE STANDARD DETAIL DRAWINGS)

PROP RW

PT STA16'A'+76.19

STH 29 EB

STH 29 WB

324EB+00

B-58-129

N 37°10'19" E

REALIGN UNNAMED TRIBUTARAY TO THE WEST BRANCH OF THE SUAMICO RIVER
(SEE CONSTRUCTION DETAILS)

ST. AUGUSTINE RD

16'A'+00 18'A'+00 22'A'+00 24'A'+00

+78 +69 +94 +19 +45 +19 +44 +69 +99 +24 +49 +41 +49 +74 +99 +91

STA 21'A'+06 - STA 22'A'+49, LT
MGS THRIE BEAM TRANSITION
MGS GUARDRAIL 3
MGS GUARDRAIL TERMINAL EAT
(SEE STANDARD DETAIL DRAWINGS)

STA 21'A'+06 - STA 21A'+99, RT
MGS THRIE BEAM TRANSITION
MGS GUARDRAIL TERMINAL EAT
(SEE STANDARD DETAIL DRAWINGS)

WISCONSIN PUBLIC SERVICE (GAS)

TLE

PC STA11'A'+44.42
12'A'+00

14'A'+00

STA 17'A'+19 - STA 18'A'+61, RT
MGS THRIE BEAM TRANSITION
MGS GUARDRAIL 3
MGS GUARDRAIL TERMINAL EAT
(SEE STANDARD DETAIL DRAWINGS)

STA 19'A'+80.60
STRUCTURE B-58-129 REQ'D
2 SPAN 54" PRESTRESSED GIRDER BRIDGE
30' CLEAR ROADWAY
SKEW 0° RHF

PERMITTED WETLAND IMPACTS

STH 156

198+00 04+00

CAUTION

N 0°35'46" E

BEGIN CONSTRUCTION
ST. AUGUSTINE RD
STA 10'A'+24.00
MATCH STH 156
NORTHEAST TELEPHONE COMPANY, LLC (COMMUNICATIONS)
SEE INTERSECTION DETAILS FOR MORE INFORMATION

NORTHEAST TELEPHONE COMPANY, LLC (COMMUNICATIONS)

WE ENERGIES (ELECTRIC DISTRIBUTION)

VPI STA 16+59.15
VPI EL 837.58

VPT STA 19+12.65
VPT EL 836.31

VPC STA 20+19.00
VPC EL 835.78

VPI STA 23+25.00
VPI EL 834.25

HP STA 18+70.60
HP EL 836.42

-0.50%

FINISHED PROFILE

5.53%

VCL = 370'
K = 64

VCL = 507'
K = 84

VCL = 612'
K = 136

VPC STA 10+26.00
VPC EL 813.26

-0.25%

LP STA 10+42.01
LP EL 813.24

VPT STA 13+96.00
VPT EL 823.03

VPC STA 14+05.65
VPC EL 823.57

MATCH STH 156 EDGE OF LANE

VPI STA 12+11.00
VPI EL 812.80

VPI STA 10+12.00
VPI EL 813.30

RT DITCH

LT DITCH

EXISTING GROUND

STA 16'A'+50
1-24" CPRC CLASS IV REQ'D
0° RHF

FINISHED PROFILE ELEVATION
EXISTING GROUND ELEVATION

813.59	810.60	813.51	811.00	815.19	810.64	818.44	810.36	823.25	810.76	828.25	809.45	832.07	809.15	834.69	807.86	836.12	810.88	836.37	810.90	835.88	807.32	835.14	806.52	833.67	805.64	831.47	805.36	828.54	805.48	824.87

10'A' 12'A' 14'A' 16'A' 18'A' 20'A' 22'A' 24'A'

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	PLAN & PROFILE - ST. AUGUSTINE RD	SHEET	E

PERMITTED WETLAND IMPACTS

BENCH MARK

NO.	STATION	DESCRIPTION	ELEV.
602	40'A'+03, 26'RT	RR SPK IN POWER POLE	801.84
602A	35'A'+82, 26'RT	RR SPK IN POWER POLE	803.12

REALIGN UNNAMED TRIBUTARAY TO THE WEST BRANCH OF THE SUAMICO RIVER (SEE CONSTRUCTION DETAILS)

STA 36'A'+00
2-57"X38" CPPACS REQ'D
4-57"X38" AEW REQ'D

BASE AGG FE

74'LT
50' WIDE

END CONSTRUCTION
ST. AUGUSTINE RD
STA 37'A'+00.00
SAWCUT REQ'D
MATCH EXISTING

BM 602

CONTROL POINT 502
Y=208075.77
X=954998.91
0.75" IRON REBAR WITH YELLOW CAP STAMPED "COUNTY SURVEYOR"

DO NOT DISTURB

BM 602A

STA 32'A'+22
REMOVE 2-36" CPCS

END CONSTRUCTION
EXISTING ST. AUGUSTINE RD
STA 22'S'+59.51
MATCH ST. AUGUSTINE RD

PC STA28'A'+14.70
N 37°10'19" E

PT STA22'S'+20.61
N 63°26'41" W

PC STA21'S'+09.71

PI STA21'S'+71.64

PI STA34'A'+55.23

N 0°28'21" E

WE ENERGIES
(ELECTRIC DISTRIBUTION)

BAUMGART MARITAL TRUST

SHAWANO COUNTY

BROWN COUNTY

OCONOR FAMILY FARM LLC

COTTONWOOD DR

ST. AUGUSTINE RD

PROP RW

TLE

RW

HO

PROPOSED WORK
STA 25'A'+00 - STA 36'A'+80
PAVEMENT RECONSTRUCTION

LEGEND
- DELINEATED WETLAND BOUNDARY
- SLOPE INTERCEPT
- X CLEARING & GRUBBING
- REMOVE EXISTING ROADWAYS

T 25 N R 18 E 25 30 R 19 E

VPT STA 26+31.00
VPT EL 818.95
-5.00%
VPC STA 26+61.29
VPC EL 817.44
VCL = 452'
K = 96
VPT STA 31+13.29
VPT EL 805.46
FINISHED PROFILE
-0.30%
VPI STA 36+80.00
VPI EL 803.76
EXISTING GROUND
VPI STA 28+87.29
VPI EL 806.14
RT DITCH
LT DITCH
FINISHED PROFILE ELEVATION
EXISTING GROUND ELEVATION

825 820 815 810 805 800 795 790

26'A'	28'A'	30'A'	32'A'	34'A'	36'A'	38'A'
805.48 / 824.87	805.36 / 820.47	804.75 / 815.58	804.20 / 811.50	803.70 / 808.47	803.30 / 806.47	803.13 / 805.51
800.18 / 805.20	804.58 / 804.90	804.70 / 804.60	804.20 / 804.30	804.25 / 804.00		

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	PLAN & PROFILE - ST. AUGUSTINE RD	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\050110_pp.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 40

PROPOSED WORK
STA 11'S'+38.75 - STA 13'S'+75.00
STA 18'S'+70.00 - STA 22'S'+59.51
PAVEMENT RECONSTRUCTION
STA 13'S'+75.00 - STA 18'S'+70.00
MILL AND HMA OVERLAY

LEGEND
- DELINEATED WETLAND BOUNDARY
- SLOPE INTERCEPT
- REMOVE EXISTING ROADWAYS

N

END CONSTRUCTION
STH 29, LT
BEGIN CONSTRUCTION
EXISTING ST. AUGUSTINE RD
STA 11'S'+38.75

BAUMGART MARITAL TRUST

END MILL & HMA OVERLAY
BEGIN CONSTRUCTION
EXISTING ST. AUGUSTINE RD
STA 18'S'+70.00
SAWCUT REQ'D

END CONSTRUCTION
EXISTING ST. AUGUSTINE RD
STA 22'S'+58.70
MATCH PROPOSED
ST. AUGUSTINE RD

ST. AUGUSTINE RD

REALIGN UNNAMED
TRIBUTARAY
TO THE WEST BRANCH OF
THE SUAMICO RIVER
(SEE CONSTRUCTION DETAILS)

BAUMGART MARITAL TRUST

STH 29 WB

10'S'+00
12'S'+00
14'S'+00
16'S'+00
18'S'+00
20'S'+00
22'S'+00
24'A'+00
28'A'+00
30'A'+00
6'W'+00
8'W'+00

PROP RW
TLE
RW
HO
HO UC
INLET

MAINTAIN FIELD ENTRANCE

SHAWANO COUNTY

EXISTING ST. AUGUSTINE RD

BROWN COUNTY

END RECONSTRUCTION
BEGIN MILL & HMA OVERLAY
EXISTING ST. AUGUSTINE RD
STA 13'S'+75.00
SAWCUT REQ'D

MAINTAIN FIELD ENTRANCE

WE ENERGIES
(ELECTRIC DISTRIBUTION)

CONSTRUCT NEW CUL-DE-SAC
(SEE INTERSECTION DETAIL)

LARDINOIS FARMS INC

BASE
AGG
FE

45'RT
28' WIDE

STA 19'S'+00, RT
1-24" CPCS REQ'D
2-24" AEW REQ'D

STA 20'S'+33
REMOVE 1-18" CPCS

STA 22'S'+32
1-24" CPRC REQ'D
2-24" AEW REQ'D
SKEW 14° RHF
2-MARKERS FOR CULVERT END REQ'D

OCONOR FAMILY FARM LLC

PERMITTED WETLAND IMPACTS

5

5

825
820
815
810
805
800
795
790

EXISTING GROUND
LT DITCH
RT DITCH
EXISTING ST. AUGUSTINE RD REMOVAL
(MATCH STH 29 DITCH)
VPI STA 12+34.60
VPI EL 802.73
VPI STA 12+45.98
VPI EL 804.63
VPI STA 12+49.99
VPI EL 804.79
VPI STA 13+75.00
VPI EL 805.80
16.67'
0.81%
3.96%
FINISHED PROFILE
EXISTING PROFILE

VPI STA 18+70.00
VPI EL 806.60
VPC STA 19+50.00
VPC EL 806.37
LP STA 19+87.23
LP EL 806.32
VCL = 100'
K = 131
-0.28%
0.48%
FINISHED PROFILE
VPI STA 20+00.00
VPI EL 806.23
VPT STA 20+50.00
VPT EL 806.47
FINISHED PROFILE ELEVATION
EXISTING PROFILE ELEVATION
VPI STA 22+58.70
VPI EL 807.47
VPI STA 22+75.70
VPI EL 806.47
5.90%
R/L OF ST. AUGUSTINE RD
EXISTING GROUND
STA 22'S'+07
1- CPRC 24-INCH CLASS III REQ
SKEW 14° RHF
RT DITCH

805.69 802.56
805.31 805.19
806.46 806.51
806.32 806.33
806.13 806.71
803.68 807.19

12'S' 14'S' 16'S' 18'S' 20'S' 22'S' 24'S'

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	PLAN & PROFILE - EXISTING ST. AUGUSTINE RD	SHEET E

PROPOSED WORK
STA 316'EB'+50 - STA 325'EB'+00
TURN LANE REMOVAL, SHOULDER CONSTRUCTION & DITCH GRADING
STA 321'EB'+35 - STA 323'EB'+05
CONSTRUCT MEDIAN GUARDRAIL

LEGEND

-·-·- DELINEATED WETLAND BOUNDARY

----- SLOPE INTERCEPT

PERMITTED WETLAND IMPACTS

REALIGN UNNAMED TRIBUTARAY TO THE WEST BRANCH OF THE SUAMICO RIVER (SEE CONSTRUCTION DETAILS)

BAUMGART MARITAL TRUST

BAUMGART MARITAL TRUST

BAUMGART MARITAL TRUST

BAUMGART MARITAL TRUST

BAUMGART MARITAL TRUST

BAUMGART MARITAL TRUST

ST. AUGUSTINE RD

N 37°10'19" E

224+00

224+00

TLE

PROP RW

PROP RW

PROP RW

PROP RW

RW

RW

RW

RW

STA 321'EB'+35 - STA 323'EB'+05 LT
STEEL THRIE BEAM
STEEL THRIE BEAM BULLNOSE TERMINAL
(SEE STANDARD DETAIL DRAWINGS)

STA 319'EB'+24
BEGIN SHOULDER RECONSTRUCTION

STH 29 WB

STH 29 EB

310'EB'+00

312'EB'+00

S 42°53'32" E

314'EB'+00

PC STA314'EB'+54.74

316'EB'+00

318'EB'+00

320'EB'+00

322'EB'+00

324'EB'+00

+38 +50

+35

+89 +02

+89 +02

+38 +50

+05

224+00

STA 323'EB'+52
BEGIN SHOULDER RECONSTRUCTION

BEGIN CONSTRUCTION
STH 29
STA 316'EB'+50.00

NORTHEAST TELEPHONE COMPANY, LLC
(COMMUNICATIONS)

WE ENERGIES
(ELECTRIC DISTRIBUTION)

PT STA16'A'+76.19

164+00

184+00

UNNAMED TRIBUTARY OF THE WEST BRANCH OF THE SUAMICO RIVER (WEST)

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	PLAN - STH 29	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\050112_pn.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:100

PERMITTED WETLAND IMPACTS

NOTE
ROADWAY REMOVALS ARE SHOWN ON CROSS SECTIONS

PROPOSED WORK
STA 325'EB'+00 - STA 335'EB'+09
TURN LANE REMOVAL, SHOULDER CONSTRUCTION & DITCH GRADING

LEGEND
- DELINEATED WETLAND BOUNDARY
- SLOPE INTERCEPT
- REMOVE EXISTING ROADWAYS

ST. AUGUSTINE RD
N 37°10'19" E
247+00
PROP RW
BAUMGART MARITAL TRUST
RW
EXISTING ST. AUGUSTINE RD
16'S+00
14'S+00
PT STA14'S+34.80
PI STA12'S+96.10
LARDINOIS FARMS INC
END CONSTRUCTION
STH 29, LT
BEGIN CONSTRUCTION
EXISTING ST. AUGUSTINE RD
STA 11'S'+38.75
STA 11'S'+59
REMOVE 1-18" CPCS
PC STA11'S+52.16
12'S+00
STA 332'EB'+46
END SHOULDER
RECONSTRUCTION
STA 334'EB'+83
END SHOULDER
RECONSTRUCTION
+09
+31
STA 327'EB'+63
BEGIN SHOULDER
RECONSTRUCTION
STH 29 WB
N 24°42'25" E
10'S+00
324'EB'+00
326'EB'+00
328'EB'+00
330'EB'+00
332'EB'+00
334'EB'+00
336'EB'+00
338'EB'+00
END CONSTRUCTION
STH 29
STA 335'EB'+09.00
STH 29 EB
STA 323'EB'+52
BEGIN SHOULDER
RECONSTRUCTION
STA 330'EB'+87
END SHOULDER
RECONSTRUCTION
STA 330'EB'+70
END SHOULDER
RECONSTRUCTION
WE ENERGIES
(ELECTRIC DISTRIBUTION)
QWEST COMMUNICATIONS
(COMMUNICATONS)
END CONSTRUCTION
STH 29, RT
END CONSTRUCTION
EXISTING STH 156 REMOVAL
STA 8'S'+93.44
PT STA8'S'+76.14
8'S+00
NORTHEAST TELEPHONE COMPANY, LLC
(COMMUNICATIONS)
PI STA327'EB'+62.13
NGS MONUMENT
(DO NOT DISTURB)
HUBEN PROPERTIES LLC
PC STA6'T'+99.12
6'T+00
S 51°38'01" E
8'T+00
EXISTING OLD 29 DR
10'T+00
12'T+00
14'T+00
EXISTING STH 156
PROP RW
BAUMGART MARITAL TRUST
WE ENERGIES
(ELECTRIC DISTRIBUTION)
CONTROL POINT 508
Y=205796.49
X=954646.12
0.75"X24" IRON REBAR WITH
BLUE EMCS CONTROL CAP

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	PLAN - STH 29	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\050113_pn.dgn
PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:100

STH 29 WB

STH 29 EB

324'EB'+00

326'EB'+00

328'EB'+00

330'EB'+00

332'EB'+00

334'EB'+00

336'EB'+00

10'S'+00

8'S'+00

6'S'+00

4'S'+00

2'S'+00

262+00

END CONSTRUCTION
STH 29, RT
END CONSTRUCTION
EXISTING STH 156 REMOVAL
STA 8'S'+93.44

NGS MONUMENT
(DO NOT DISTURB)

STA 7'S'+79
REMOVE 1-24" CPCS

STA 6'S'+73
REMOVE 1-18" CPCS

CONTROL POINT 508
Y=205796.49
X=954646.12
0.75"X24" IRON REBAR WITH
BLUE EMCS CONTROL CAP

EXISTING STH 156

BROWN COUNTY
SHAWANO COUNTY

MATCH EXISTING
STH 156 REMOVAL, RT
BEGIN CONSTRUCTION
EXISTING OLD 29 DR REMOVAL
STA 5'T'+68.00

6'T'+00

8'T'+00

EXISTING OLD 29 DR

STA 8'T'+44
REMOVE 1-18" CPCS

END CONSTRUCTION
EXISTING OLD 29 DR REMOVAL
STA 9'T'+60.00

HUBEN PROPERTIES LLC

BROWN COUNTY STH 29 EXCESS RW

EXISTING 24" CPCS
TO REMAIN

10'T'+00

12'T'+00

214+00

4'T'+00

210+00

208+00

206+00

204+00

202+00

STH 156/OLD 29 DR

PROP RW

TLE

BAUMGART MARITAL TRUST

ALBERT M NOOYEN

WOZS POLISH
PICKLE LLC

BEGIN CONSTRUCTION
EXISTING STH 156 REMOVAL
STA 3'S'+25.00

STH 156

N

LEGEND

DELINEATED WETLAND BOUNDARY

SLOPE INTERCEPT

REMOVE EXISTING ROADWAYS

PERMITTED WETLAND IMPACTS

NOTE

ROADWAY REMOVALS ARE SHOWN ON CROSS SECTIONS

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	PLAN - EXISTING STH 156 & OLD 29 DR REMOVALS	SHEET	E

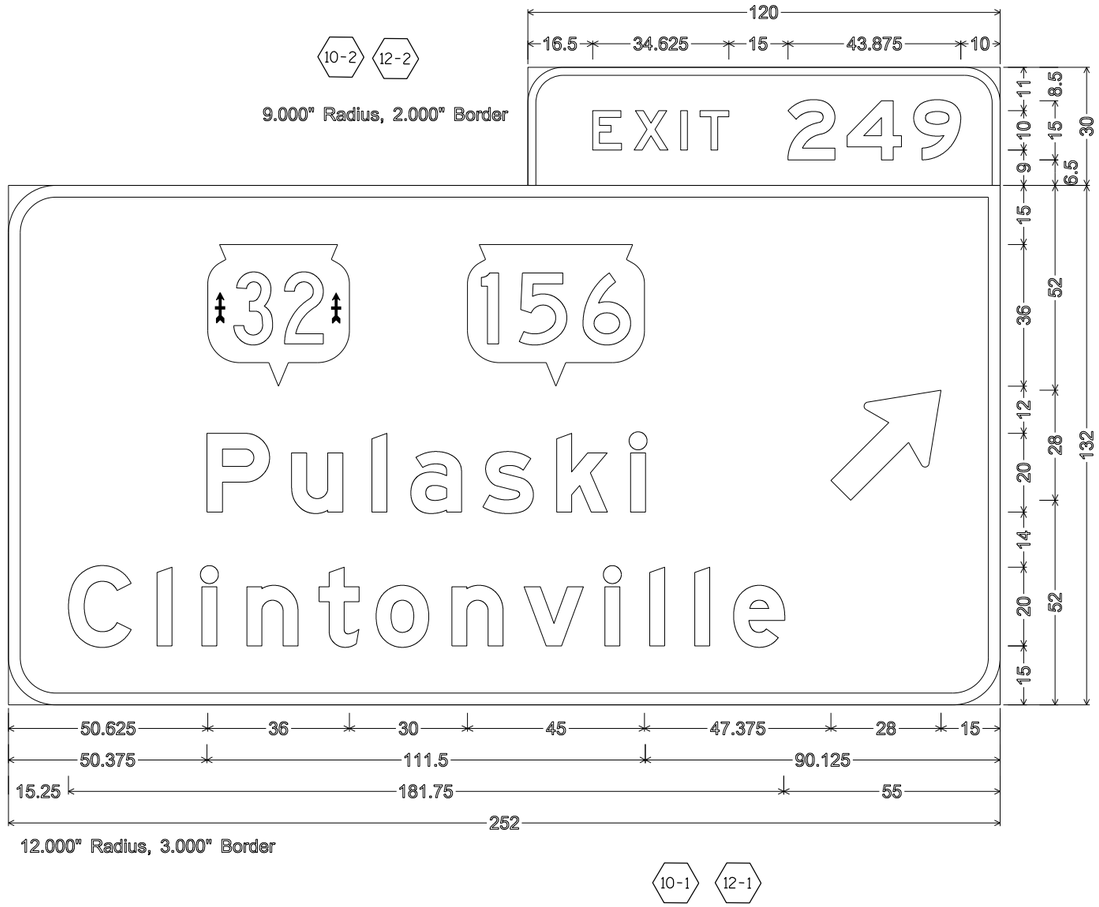
FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\050114_pn.dgn

PLOT DATE : 11/29/2016

PLOT BY : sgc

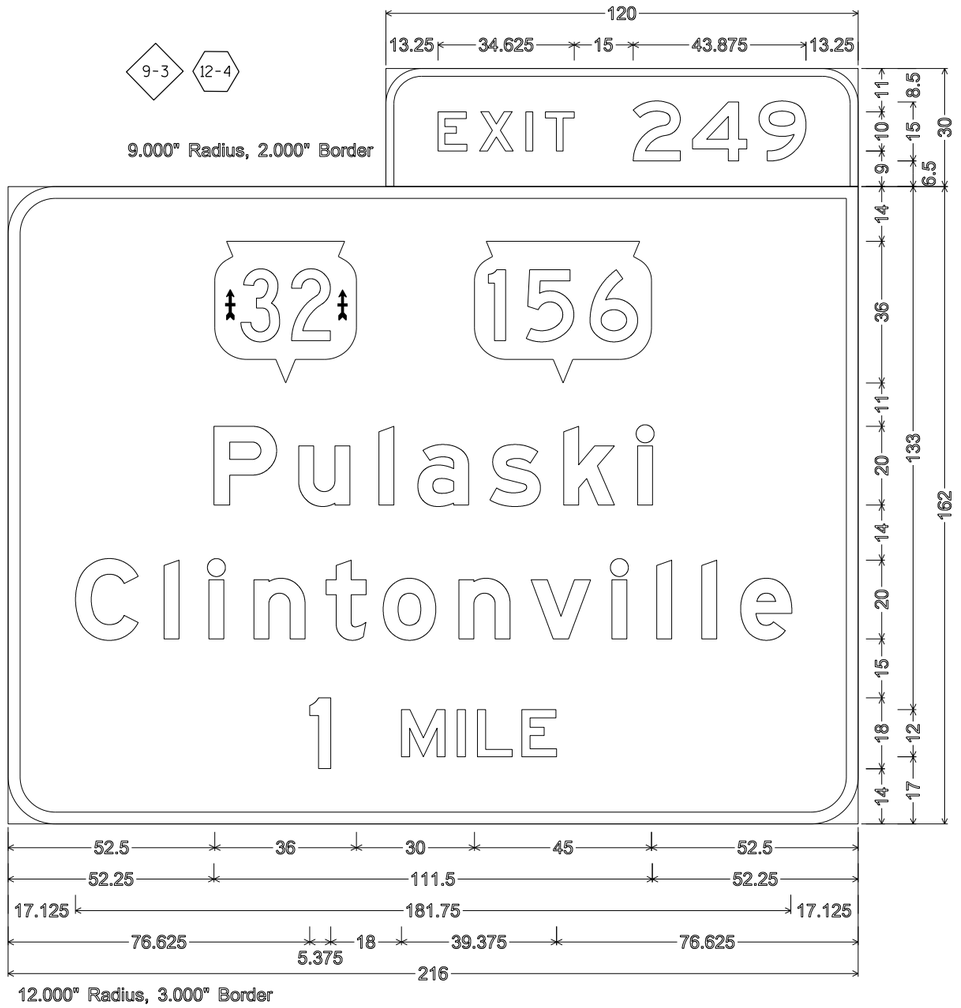
PLOT NAME :

PLOT SCALE : 1:100



NOTES

1. Signs are Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all CAP words Series E



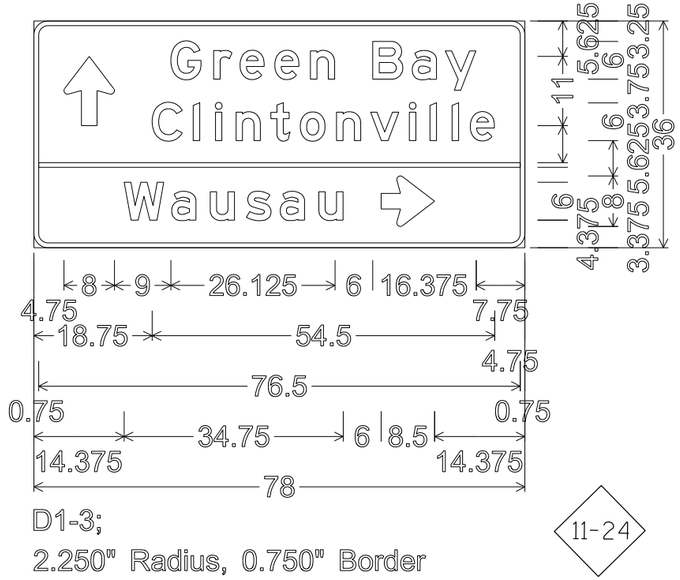
7

7

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	SIGN DETAILS	SCALE: 0 ½" 1"	SHEET	E

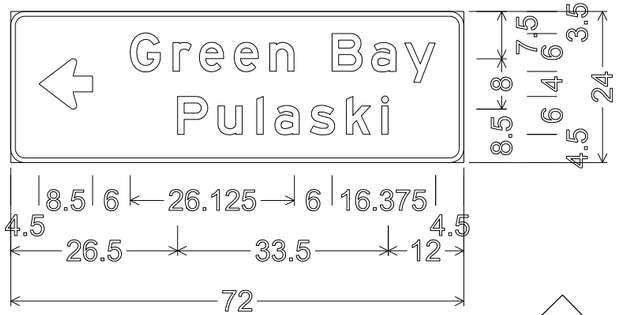
NOTES

1. Signs are Type II- Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E



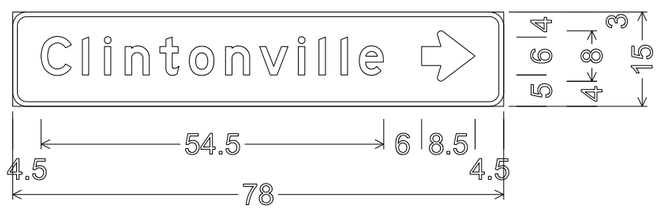
D1-3;
2.250" Radius, 0.750" Border

11-24



D1-2;
2.250" Radius, 0.750" Border

6-5



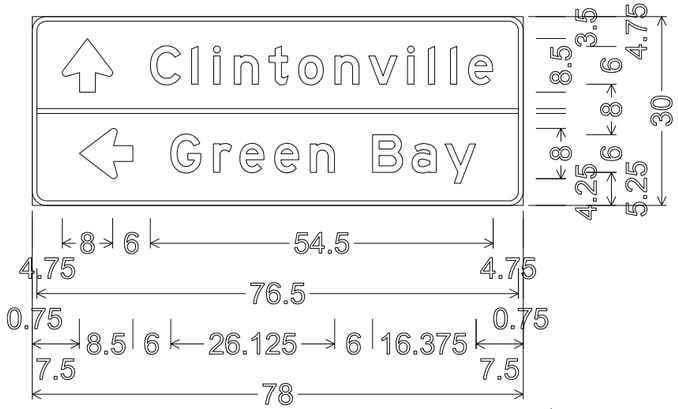
D1-1;
2.250" Radius, 0.750" Border

6-33

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	SIGN DETAILS	SCALE: 0 1/2" 1"	SHEET	E

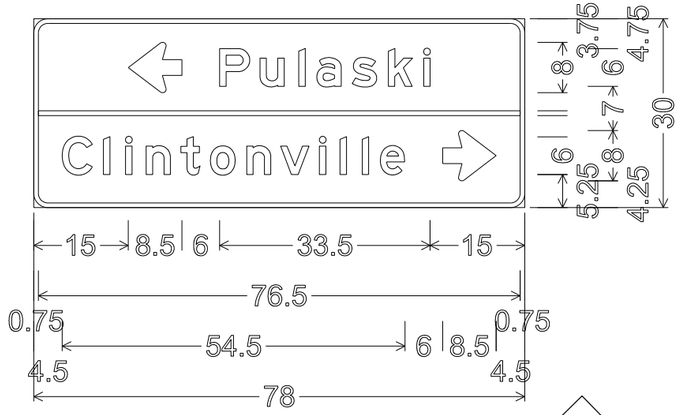
NOTES

1. Signs are Type II- Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E



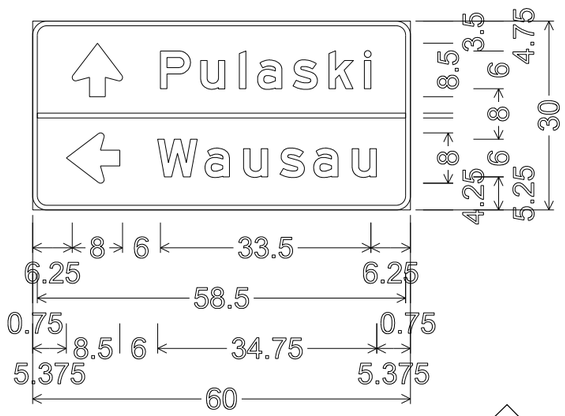
D1-2;
2.250" Radius, 0.750" Border

11-14



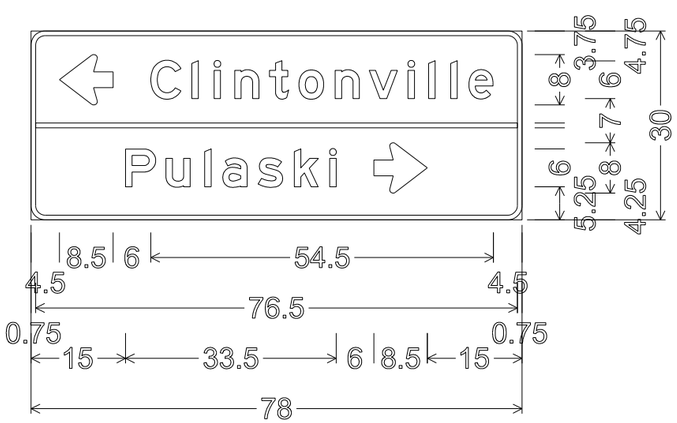
D1-2;
2.250" Radius, 0.750" Border,

11-1



D1-2;
2.250" Radius, 0.750" Border

11-12



D1-2;
2.250" Radius, 0.750" Border,

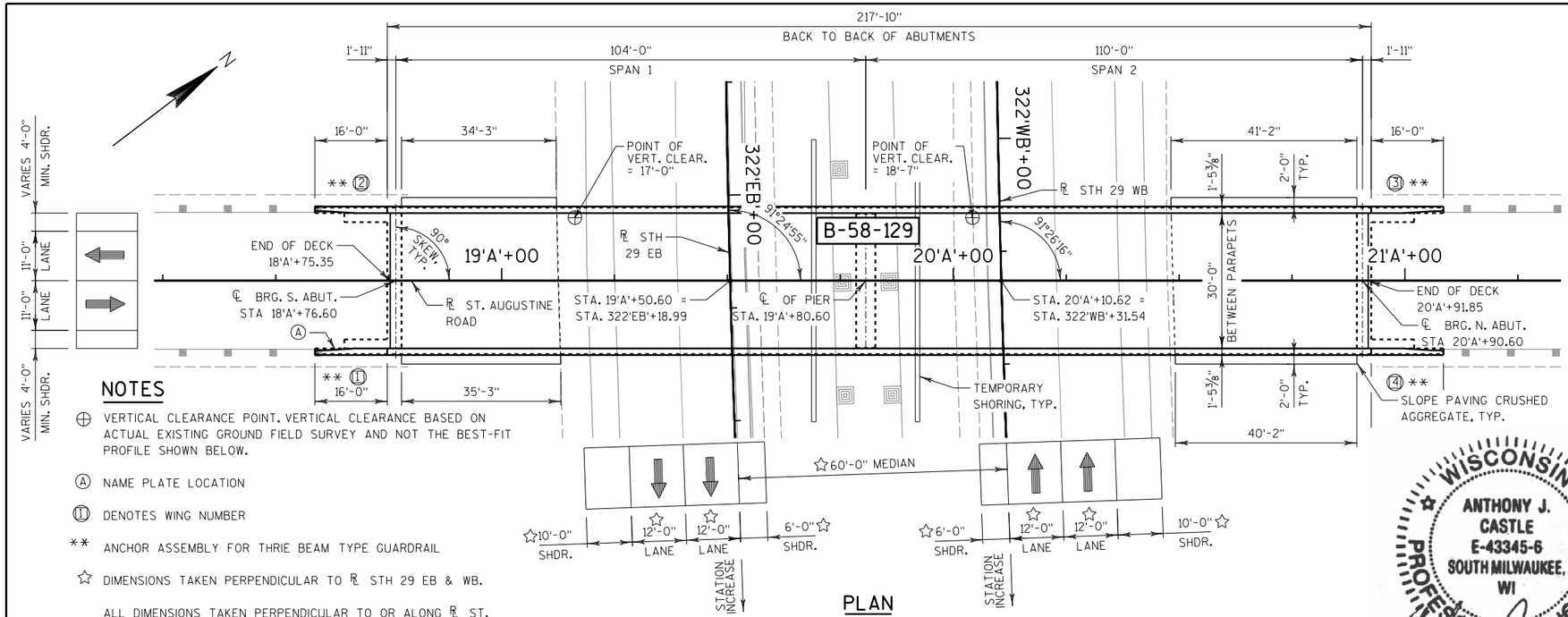
11-20

7

7

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	SIGN DETAILS	SCALE: 0 1/2" 1"	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\070101_sd.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:385



NOTES

⊕ VERTICAL CLEARANCE POINT. VERTICAL CLEARANCE BASED ON ACTUAL EXISTING GROUND FIELD SURVEY AND NOT THE BEST-FIT PROFILE SHOWN BELOW.

Ⓐ NAME PLATE LOCATION

⑪ DENOTES WING NUMBER

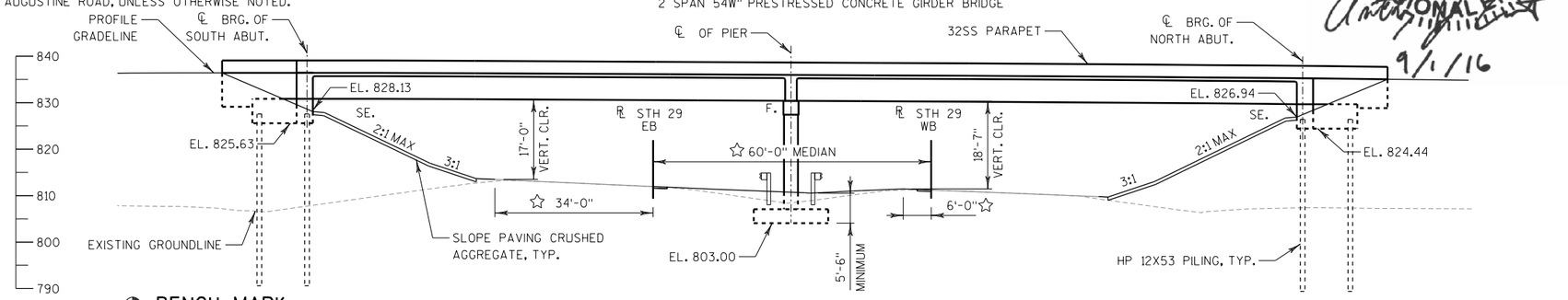
** ANCHOR ASSEMBLY FOR THRIE BEAM TYPE GUARDRAIL

☆ DIMENSIONS TAKEN PERPENDICULAR TO ℄ STH 29 EB & WB.

ALL DIMENSIONS TAKEN PERPENDICULAR TO OR ALONG ℄ ST. AUGUSTINE ROAD, UNLESS OTHERWISE NOTED.

PLAN

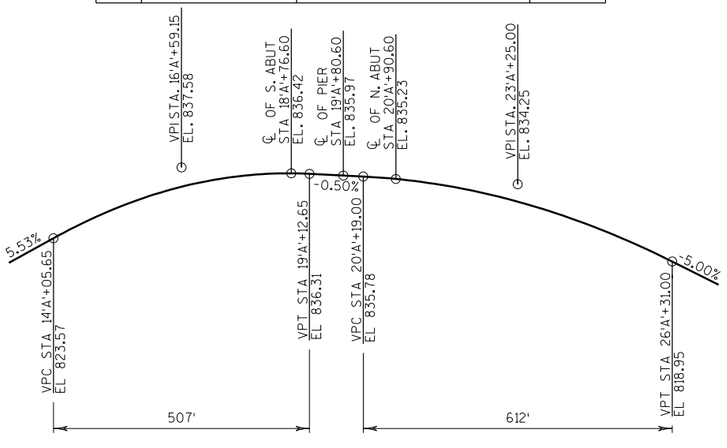
2 SPAN 54W" PRESTRESSED CONCRETE GIRDER BRIDGE



BENCH MARK

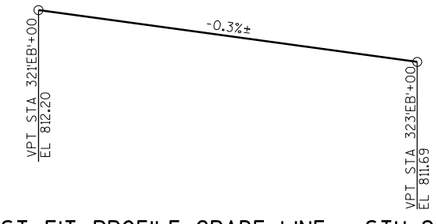
NO.	STATION	DESCRIPTION	ELEV.
603	324'EB'+87.876'(RT)	SET RR SPIKE IN POWER POLE	812.51

PROFILE GRADE LINE - ST. AUGUSTINE ROAD

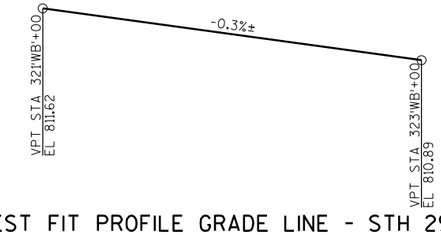


ELEVATION

NORMAL TO STH 29 LOOKING NORTH



BEST FIT PROFILE GRADE LINE - STH 29 EB



BEST FIT PROFILE GRADE LINE - STH 29 WB

HORIZONTAL ALIGNMENT

STH 29 EB ℄
PI STA= 327+62.13
Y = 205904.21
X = 945550.44
DELTA= 37°47'22" LT.
T= 1307.39'
L= 2519.29'
R= 3819.72'
PC STA.= 314+54.74
PT STA.= 339+74.04

STH 29 WB ℄
PI STA= 327+64.55
Y = 205960.10
X = 954580.42
DELTA= 37°47'22" LT.
T= 1286.85'
L= 2479.72'
R= 3759.72'
PC STA.= 314+77.70
PT STA.= 339+57.42

LIST OF DRAWINGS

1. GENERAL PLAN & ELEVATION
2. CROSS SECTION AND QUANTITIES
3. SUBSURFACE EXPLORATION
4. SOUTH ABUTMENT
5. SOUTH ABUTMENT WING DETAILS
6. SOUTH ABUTMENT DETAIL
7. NORTH ABUTMENT
8. NORTH ABUTMENT WING DETAILS
9. NORTH ABUTMENT DETAILS
10. PIER
11. PIER DETAILS
12. PIER FOOTING
13. 54W" PRESTRESSED GIRDER
14. 54W" PRESTRESSED GIRDER DETAILS
15. STEEL DIAPHRAGM
16. SUPERSTRUCTURE PLAN & CROSS SECTION
17. SUPERSTRUCTURE DETAILS
18. SINGLE SLOPE PARAPET 32SS
19. SLOPE PAVING CRUSHED AGGREGATE

STRUCTURE DESIGN CONTACTS

BRIDGE OFFICE: WILLIAM DREHER (608) 266-8489
CONSULTANT: MICHAEL D. RADTKE (414) 347-1607

DESIGN DATA

STATE PROJECT NUMBER 1058-25-70

LIVE LOAD:
DESIGN LOADING: HL-93
INVENTORY RATING: RF = 1.30
OPERATING RATING: RF = 1.69
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 250 KIPS

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 P.S.F.

MATERIAL PROPERTIES:
CONCRETE MASONRY
SUPERSTRUCTURE ..... f'c = 4,000 psi
ALL OTHER ..... f'c = 3,500 psi

STRUCTURAL CARBON STEEL,
ASTM A709, GRADE 36 .....fy = 36,000 psi

BAR STEEL REINFORCEMENT,
HIGH STRENGTH, GRADE 60 .....fy = 60,000 psi

54W-INCH PRESTRESSED GIRDERS,
CONCRETE MASONRY .....f'c = 8,000 psi
.....f'ci = 6,800 psi

0.6" DIA. PRESTRESSING STRANDS f's = 270,000 psi

FOUNDATION DATA:
ABUTMENTS TO BE SUPPORTED ON HP 12X53 STEEL PILES DRIVEN TO THE FOLLOWING REQUIRED DRIVING RESISTANCE AS DETERMINED BY THE MODIFIED GATES DYNAMIC EQUATION.

REQUIRED DRIVING RESISTANCE*:
SOUTH ABUTMENT: 220 TONS
NORTH ABUTMENT: 220 TONS

ESTIMATED PILE LENGTH:
SOUTH ABUTMENT: 35 FEET
NORTH ABUTMENT: 35 FEET

PIER COLUMNS TO BE SUPPORTED ON SPREAD FOOTING. THE MINIMUM FACTORED BEARING RESISTANCE OF THE SOIL DIRECTLY BELOW THE SPREAD FOOTING SHALL BE 6500 PSF***. GEOTECHNICAL ENGINEER WILL VISUALLY INSPECT TO VERIFY SOIL MEETS BEARING RESISTANCE AND REQUIREMENTS OF THE GEOTECHNICAL REPORT. CONTRACTOR TO NOTIFY GEOTECHNICAL ENGINEER A MINIMUM ONE WEEK PRIOR TO START OF EXCAVATION ACTIVITIES.

*THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.50 USING THE MODIFIED GATES METHOD TO DETERMINE PILE CAPACITY.

***THE FACTORED BEARING RESISTANCE IS THE VALUE USED FOR DESIGN.

TRAFFIC DATA:

ST. AUGUSTINE ROAD	STH 29
A.D.T. = 460 (2017)	A.D.T. = 15,300 (2017)
A.D.T. = 510 (2037)	A.D.T. = 16,800 (2037)
R.D.S. = 45 M.P.H.	R.D.S. = 70 M.P.H.

WISCONSIN
ANTHONY J. CASTLE
E-43345-6
SOUTH MILWAUKEE, WI
PROFESSIONAL ENGINEER
9/1/16

NO.	DATE	REVISION	BY

emcs inc
1300 W. Canal Street, Suite 200
Milwaukee, WI 53233
414.347.1607 Fax 414.347.1347

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-58-129

ST. AUGUSTINE ROAD OVER STH 29

COUNTY SHAWANO | TOWN MAPLE GROVE

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	AJC	DESIGN CK'D.	MDR	DRAWN BY	AJC	PLANS CK'D.	MDR

GENERAL PLAN & ELEVATION

SHEET 1 OF 19

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\09 STRUCTURES\B-58-129- St. Augustine over STH 29\Plan\080101_gp.dgn
PLOT DATE : 8/29/2016
PLOT BY : ajc

STATE PROJECT NUMBER

1058-25-70

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.

ALL STATIONS AND ALL ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NAVD 88 DATUM.

ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.

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

ALL REINFORCING BARS ARE ENGLISH DESIGNATION AND THE FIRST DIGIT OF A 3-DIGIT BAR MARK OR FIRST TWO DIGITS OF A 4-DIGIT BAR MARK SIGNIFY THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M153 TYPE 1, 2, OR 3, OR AASHTO M213.

THE EXISTING GROUNDLINE SHALL BE USED AS THE UPPER LIMITS OF EXCAVATION AT THE PIER.

AT THE BACKFACE OF THE ABUTMENTS, ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.

THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE PRESTRESSED GIRDER DETAILS SHEET.

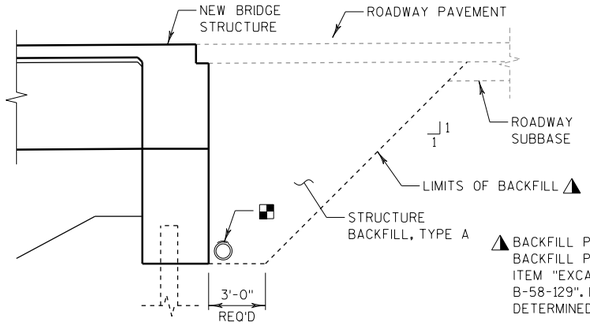
THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH SLOPE PAVING MATERIAL TO THE EXTENT SHOWN ON SHEET 1 AND IN THE ABUTMENT DETAILS.

APPLY PROTECTIVE SURFACE TREATMENT TO TOP OF BRIDGE DECK AND PAVING NOTCH SURFACES. APPLY PIGMENTED SURFACE SEALER TO TOP AND INSIDE FACES OF PARAPETS.

THE QUANTITY FOR BACKFILL STRUCTURE, BID ITEM 210.0150, IS CALCULATED BASED ON THE APPLICABLE FIGURES 12.6-2 IN THE WISCONSIN DEPARTMENT OF TRANSPORTATION BRIDGE MANUAL.

TOTAL ESTIMATED QUANTITIES

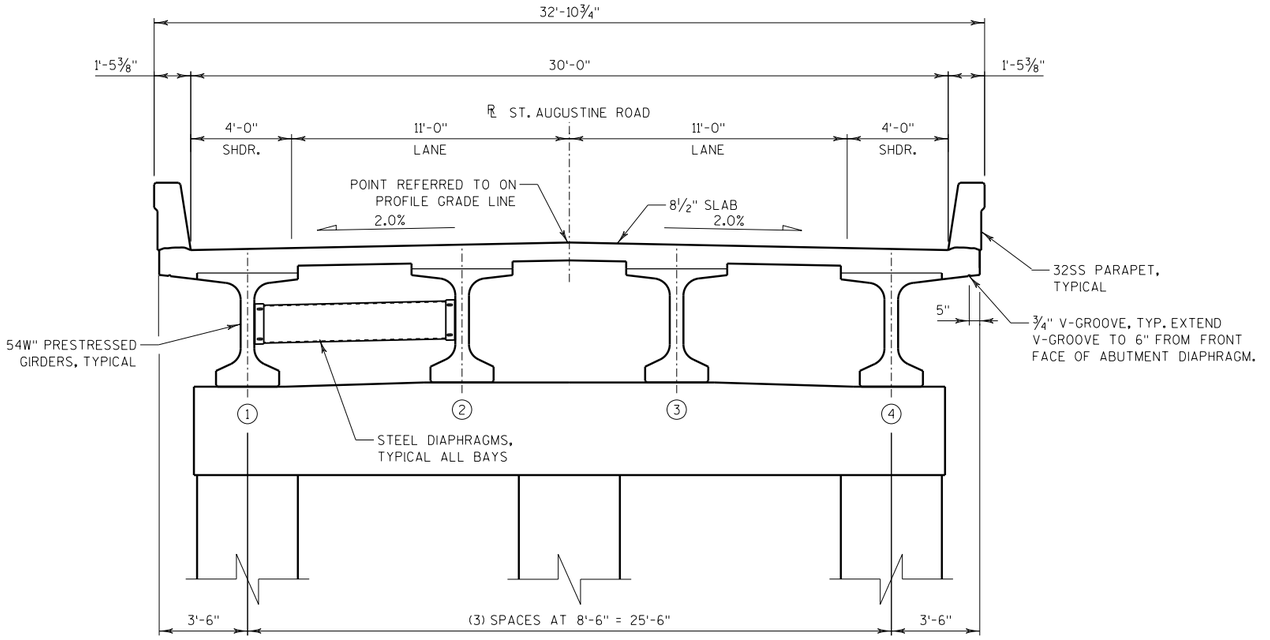
BID ITEM NO.	BID ITEMS	UNIT	SOUTH ABUT.	PIER	NORTH ABUT.	SUPER	TOTAL
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-58-0129	LS	-	-	-	-	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	233	1090	231	-	1554
502.0100	CONCRETE MASONRY BRIDGES	CY	44	128	43	310	525
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-	-	-	733	733
502.3210	PIGMENTED SURFACE SEALER	SY	14	-	14	181	209
503.0155	PRESTRESSED GIRDER TYPE I 54W-INCH	LF	-	-	-	860	860
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	2110	6390	2110	-	10610
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	2820	15600	2820	61580	82820
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	4	8	4	-	16
506.4000	STEEL DIAPHRAGMS B-58-0129	EACH	-	-	-	12	12
511.1200	TEMPORARY SHORING B-58-0129	SF	-	1720	-	-	1720
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	13	-	13	-	26
550.0500	PILE POINTS	EACH	8	-	8	-	16
550.1120	PILING STEEL HP 12-INCH X 53 LB	LF	280	-	280	-	560
604.0500	SLOPE PAVING CRUSHED AGGREGATE	SY	160	-	185	-	345
612.0206	PIPE UNDERDRAIN UNPERFORATED 6-INCH	LF	30	-	30	-	60
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	70	-	70	-	140
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	2	-	2	-	4
	NON-BID ITEMS						
	NON-BITUMINOUS JOINT SEALER	SIZE	-		-	-	-
	PREFORMED JOINT FILLER	SIZE	-		-	-	1/2" & 3/4"



TYPICAL SECTION THROUGH ABUTMENT

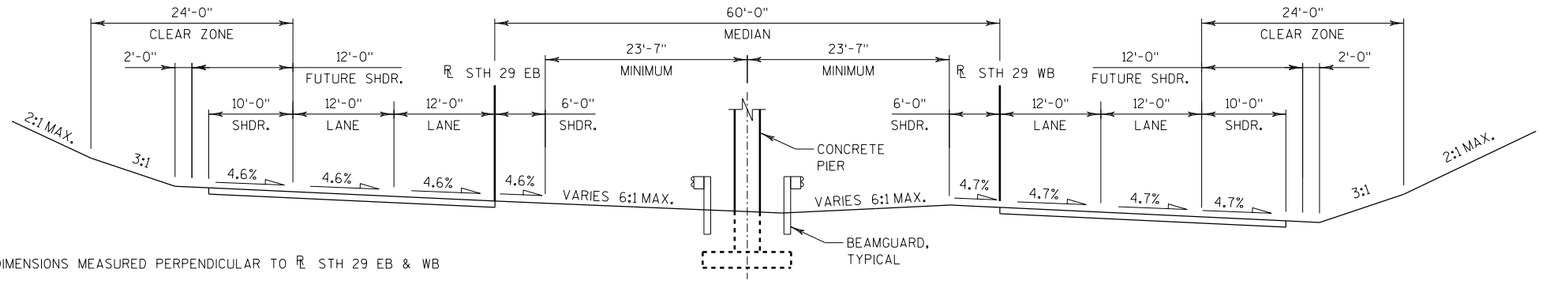
BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCLUDED IN BID ITEM "EXCAVATION FOR STRUCTURES BRIDGES B-58-129". LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN.



PROPOSED CROSS SECTION

(LOOKING NORTH)



NOTE: DIMENSIONS MEASURED PERPENDICULAR TO ℄ STH 29 EB & WB

STH 29 PROPOSED TYPICAL SECTION

(LOOKING WEST)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-58-129

DRAWN BY AJC | PLANS CK'D. MDR

CROSS SECTION AND QUANTITIES

SHEET 2 OF 19

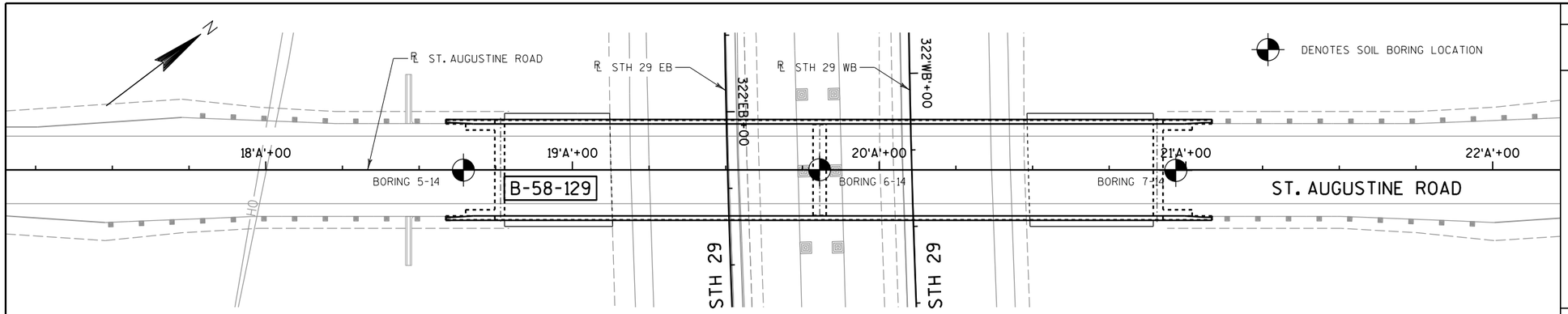
8

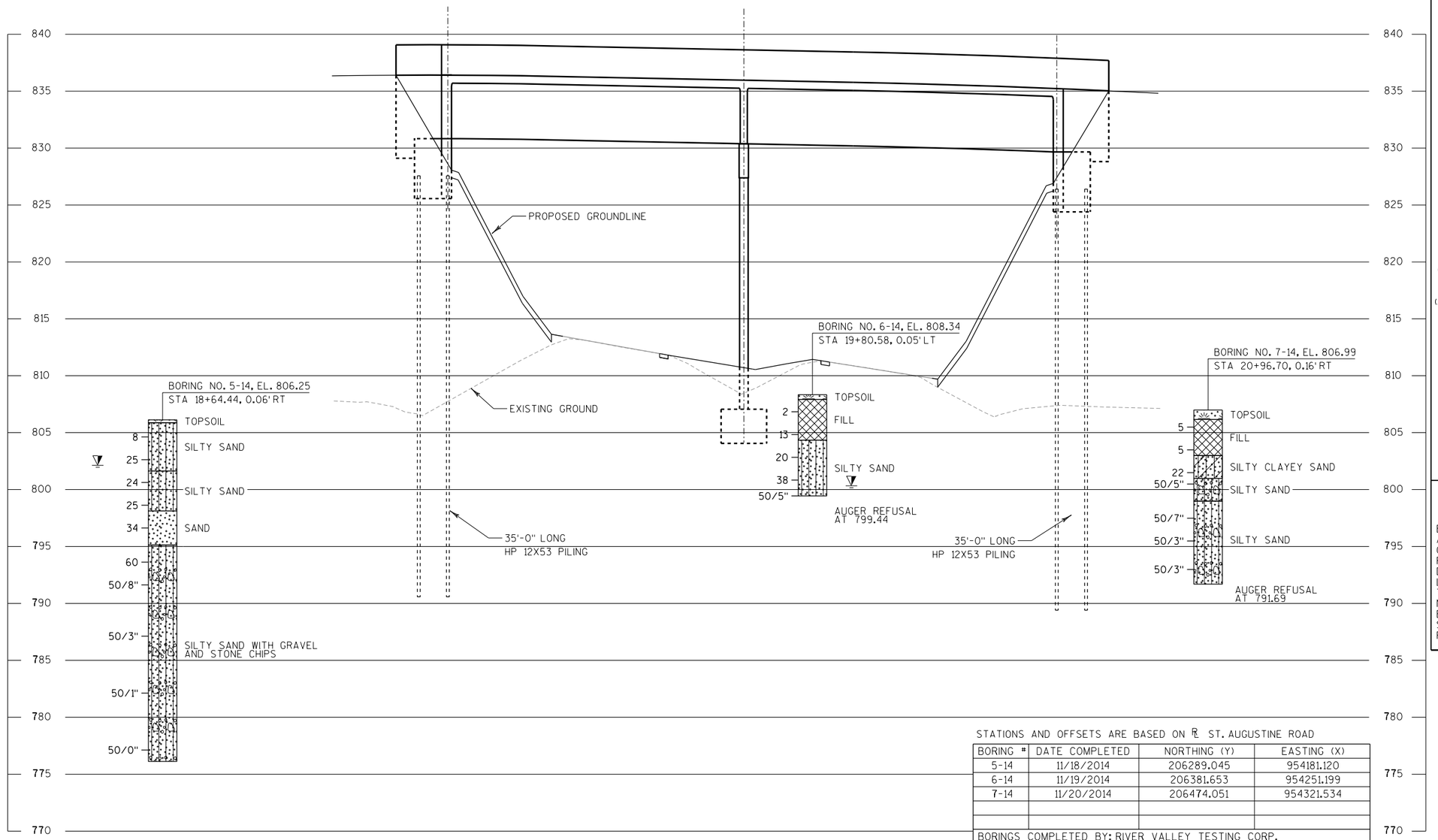
8

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\09 STRUCTURES\B-58-129- St. Augustine over STH 29\Plan\080102_ts.dgn

PLOT DATE : 8/29/2016

PLOT BY : ajc





STATIONS AND OFFSETS ARE BASED ON ℄ ST. AUGUSTINE ROAD

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
5-14	11/18/2014	206289.045	954181.120
6-14	11/19/2014	206381.653	954251.199
7-14	11/20/2014	206474.051	954321.534

BORINGS COMPLETED BY: RIVER VALLEY TESTING CORP.

REPORT COMPLETED BY: RIVER VALLEY TESTING CORP.

ALL COORDINATES REFERENCED TO WCCS NAD 83(91) SHAWANO COUNTY

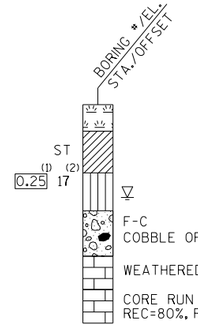
STATE PROJECT NUMBER

1058-25-70

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- ▽ AT TIME OF DRILLING
- ▼ END OF DRILLING
- ▽ AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-58-129

DRAWN BY: TEO | PLANS CK'D.: MDR

SUBSURFACE EXPLORATION

SHEET 3 OF 19

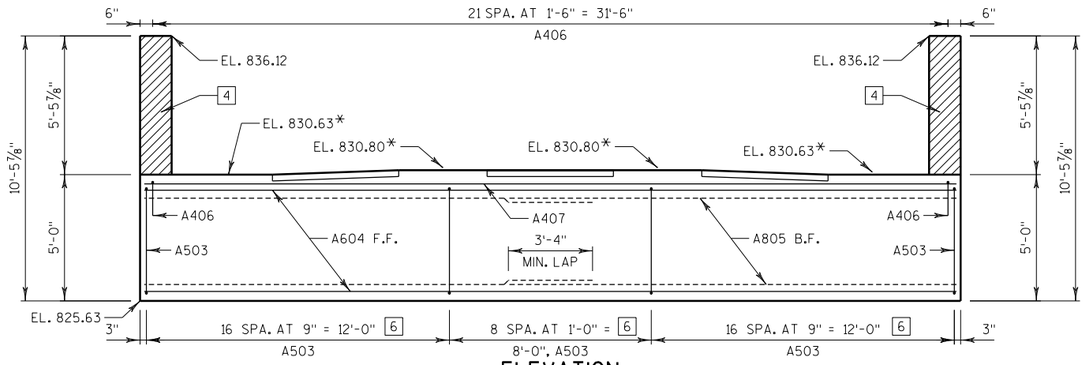
8

8

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\09 STRUCTURES\B-58-129- St. Augustine over STH 29\Plan\080103_se.dgn

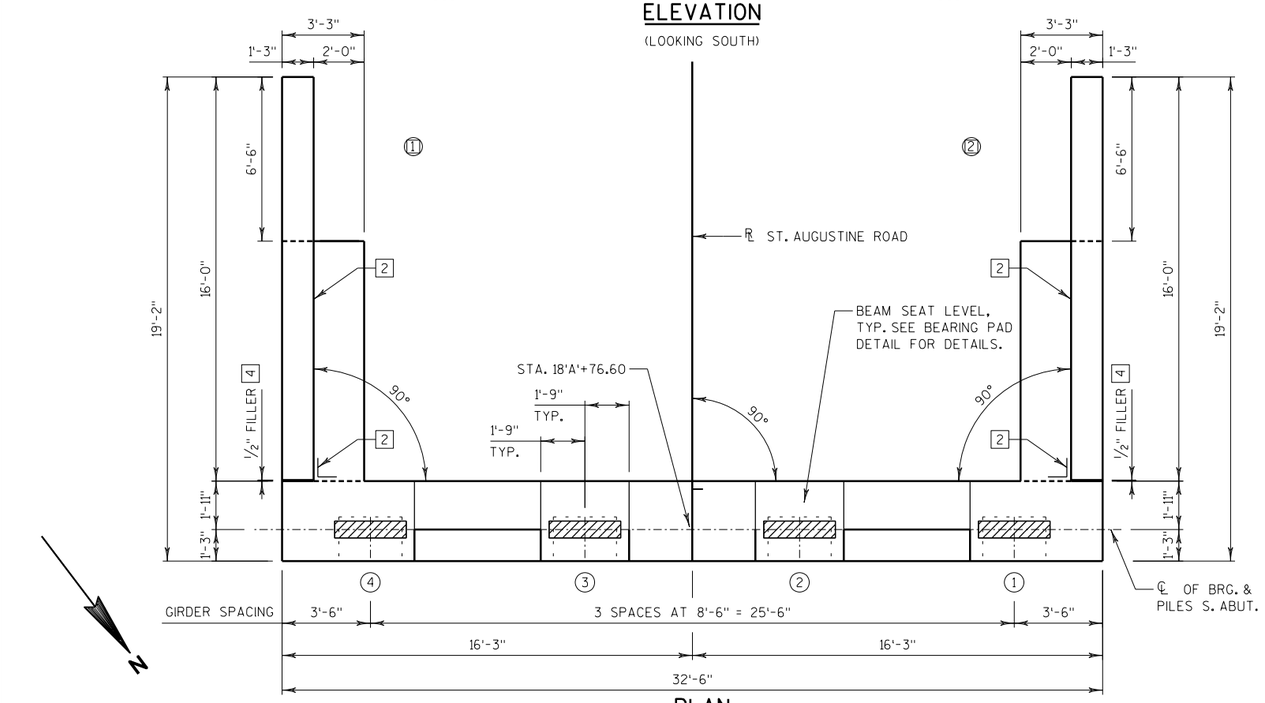
PLOT DATE : 8/16/2016

PLOT BY : ajc

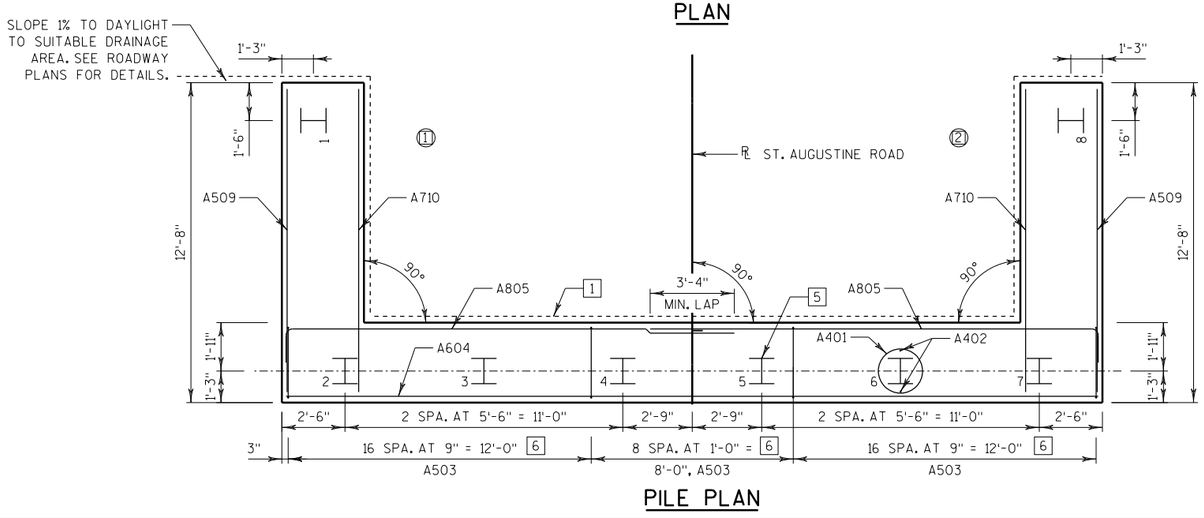


ELEVATION

(LOOKING SOUTH)



PLAN



PILE PLAN

GENERAL NOTES

SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE.)

F.F. DENOTES FRONT FACE.

B.F. DENOTES BACK FACE.

SEE SHEET 6 FOR TYPCIAL SECTION OF ABUTMENT.

FOR PILE SPLICE DETAIL SEE SHEET 6.

(X) INDICATES GIRDER NUMBER.

(X) INDICATES WINGWALL NUMBER.

1 INDICATES PILE NUMBER

[1] PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE AS DIRECTED BY THE ENGINEER. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON SHEET 6. RODENT SHIELD TO BE INCLUDED IN BID PRICE OF "PIPE UNDERDRAIN WRAPPED 6-INCH". CAP END AS SHOWN.

[2] 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL VERTICAL AND HORIZONTAL JOINTS ON BACK FACE.

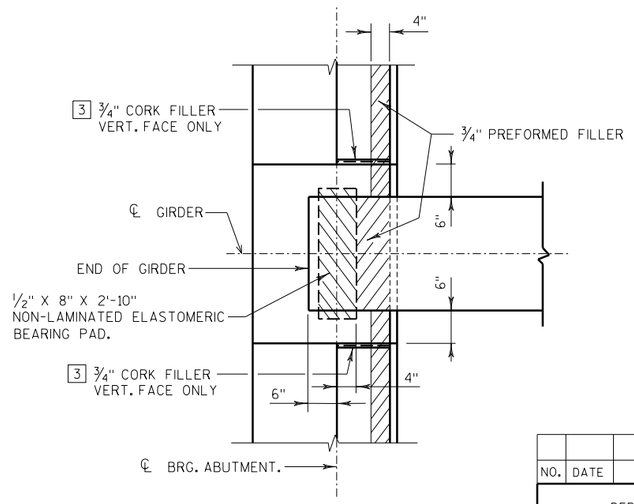
[3] ¾" CORK FILLER ON VERTICAL BEAM SEAT FACES THAT RUN PARALLEL WITH GIRDER.

[4] ½" FILLER - EXTEND FROM BEAM SEAT TO TOP OF CONCRETE PARAPET. INCLUDED IN WINGWALL LENGTH.

[5] SUPPORT ABUTMENT ON HP 12x53 STEEL PILING, ESTIMATED 35'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 220 TONS PER PILE.

[6] SPACE TO MISS PILES.

* ELEVATIONS AND DIMENSIONS TAKEN AT ℄ OF BRG. & PILES S. ABUT.



BEARING PAD DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-58-129

DRAWN BY AJC | PLANS CK'D. MDR

SOUTH ABUTMENT

SHEET 4 OF 19

STATE PROJECT NUMBER

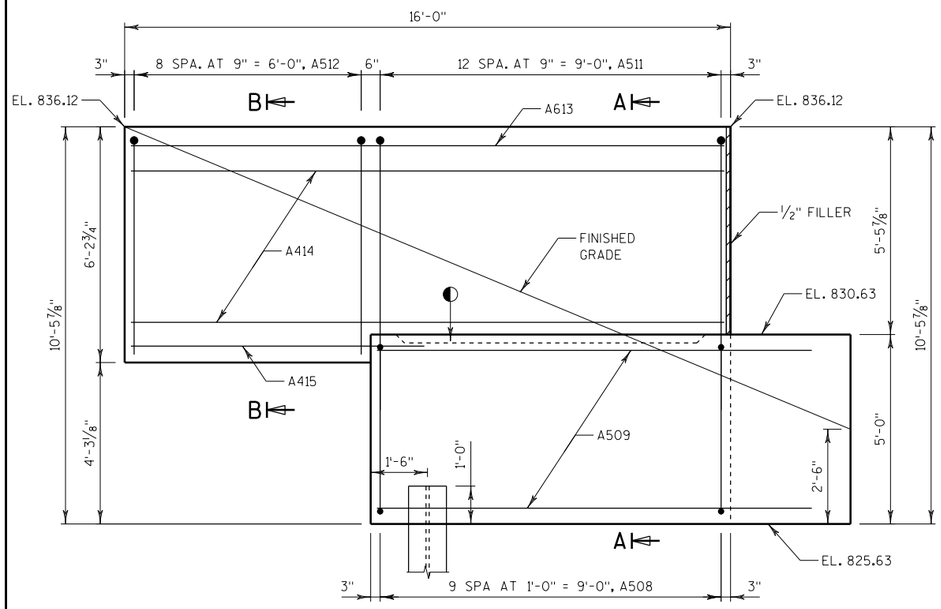
1058-25-70

8

8

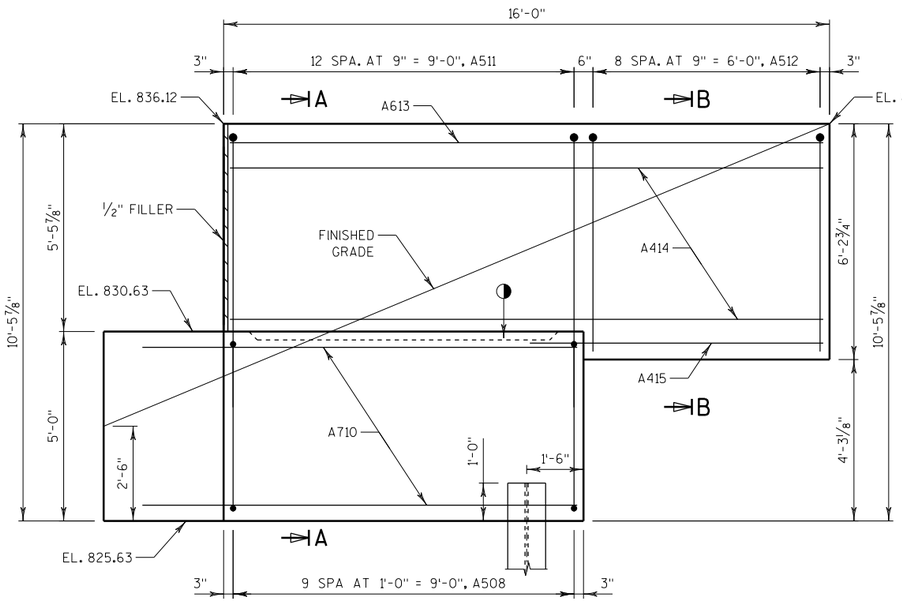
STATE PROJECT NUMBER

1058-25-70



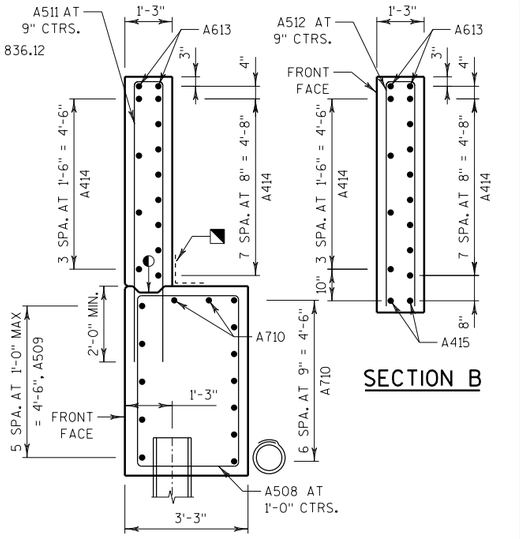
WING 1 ELEVATION

(FRONT FACE)



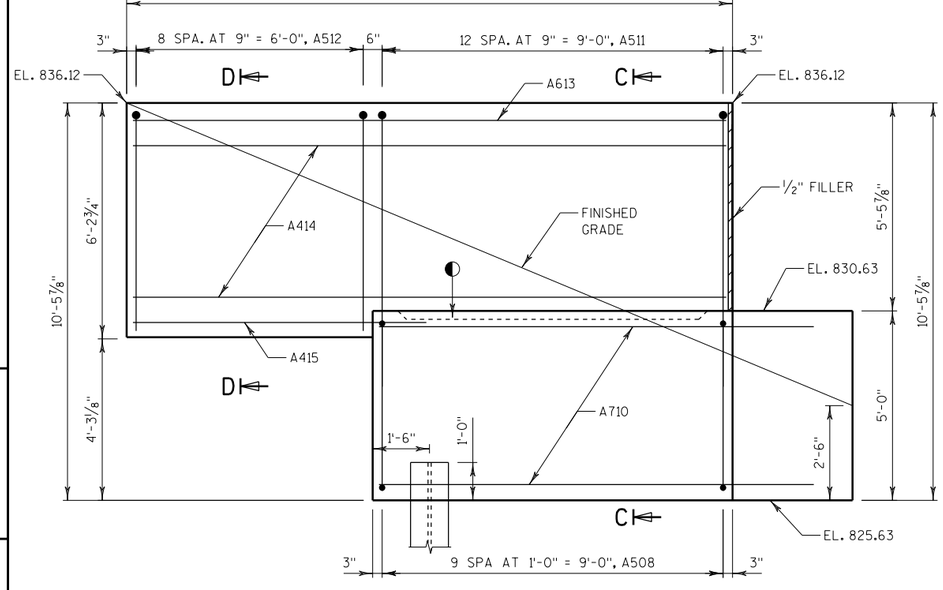
WING 1 ELEVATION

(BACK FACE)



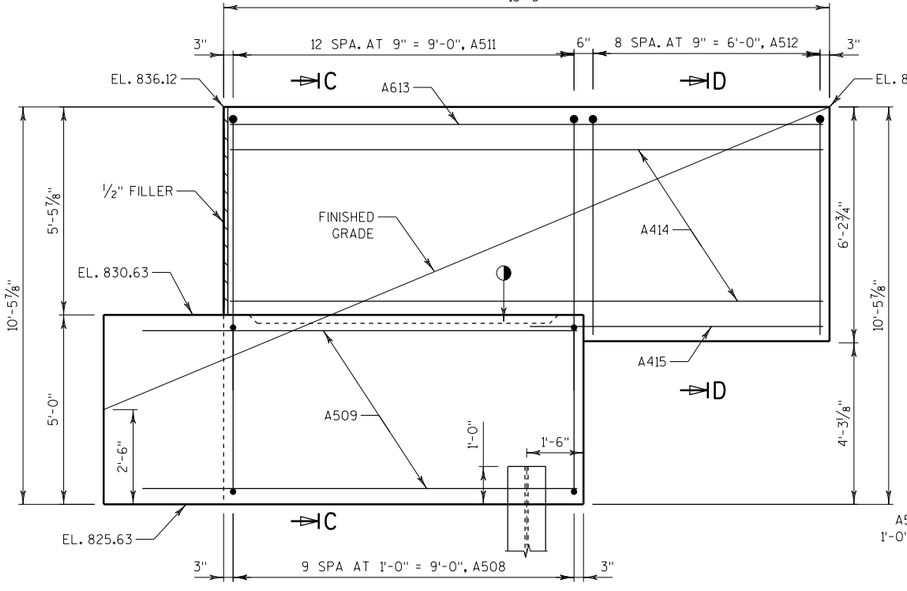
SECTION B

SECTION A



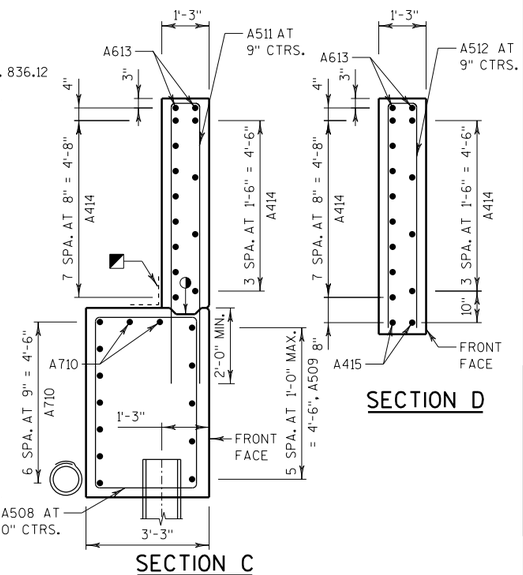
WING 2 ELEVATION

(BACK FACE)



WING 2 ELEVATION

(FRONT FACE)



SECTION D

SECTION C

◐ OPTIONAL KEYED CONST. JOINT - FORMED BY A SURFACE BEVELED 2"x6.

◥ 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZ. AND VERT. JOINTS ON BACKFACE OF ABUTMENT

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-58-129

DRAWN BY AJC | PLANS CK'D. MDR

SOUTH ABUTMENT WING DETAILS

SHEET 5 OF 19

8

8

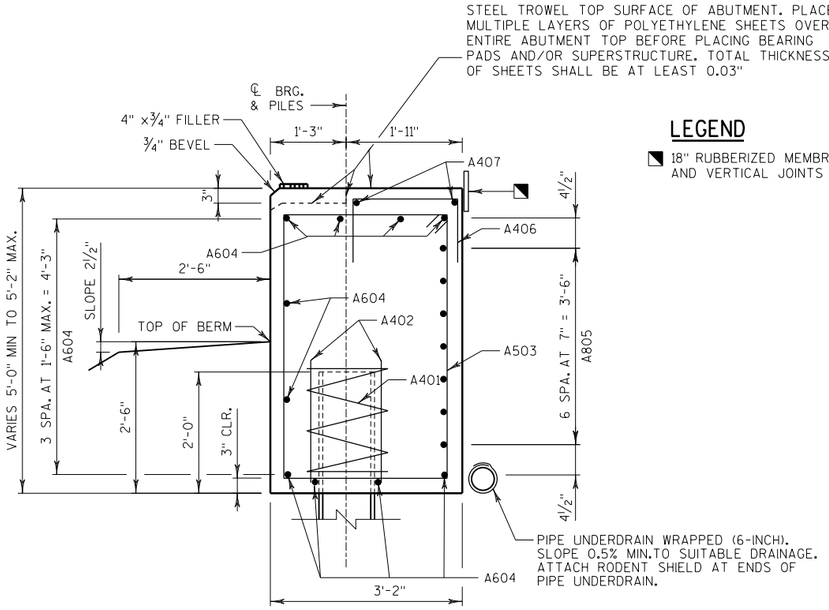
FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\09 STRUCTURES\B-58-129- St. Augustine over STH 29\Plan\080105_sw.dgn

PLOT DATE : 8/16/2016

PLOT BY : ajc

STATE PROJECT NUMBER

1058-25-70



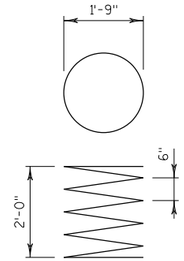
TYPICAL SECTION AT ABUTMENT

LEGEND

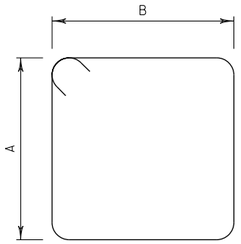
18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE.

SOUTH ABUTMENT BILL OF BARS

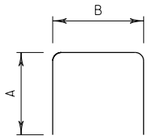
BAR MARK	COAT	NO.	LENGTH	BENT	LOCATION
A401		8	28'-0"	X	ABUT. BODY AT PILES
A402		16	2'-3"		ABUT. BODY AT PILES
A503		41	15'-0"	X	ABUT. BODY VERT.
A604		10	32'-2"		ABUT. BODY HORIZ.
A805		14	18'-11"	X	ABUT. BODY HORIZ. B.F.
A406		22	3'-9"	X	ABUT. BODY VERT.
A407		2	32'-2"		ABUT. BODY HORIZ.
A508	X	20	15'-8"	X	WING 1 & 2 STIRRUPS
A509	X	12	11'-1"		WING 1 & 2 HORIZ. F.F.
A710	X	18	12'-1"		WING 1 & 2 HORIZ. B.F.
A511	X	26	15'-6"	X	WING 1 & 2 VERT.
A512	X	18	12'-4"	X	WING 1 & 2 VERT.
A613	X	4	15'-8"		WING 1 & 2 HORIZ.
A414	X	24	15'-8"		WING 1 & 2 HORIZ.
A415	X	4	7'-9"		WING 1 & 2 HORIZ.



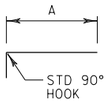
A401



A503, A508,

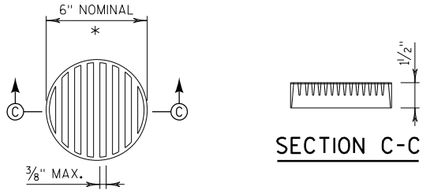


A406, A511, A512



A805

BAR MARK	A	B
A503	4'-4"	2'-10"
A805	17'-9"	-
A406	1'-2"	1'-7"
A508	4'-7"	2'-11"
A511	7'-5"	11"
A512	5'-10"	11"



SECTION C-C

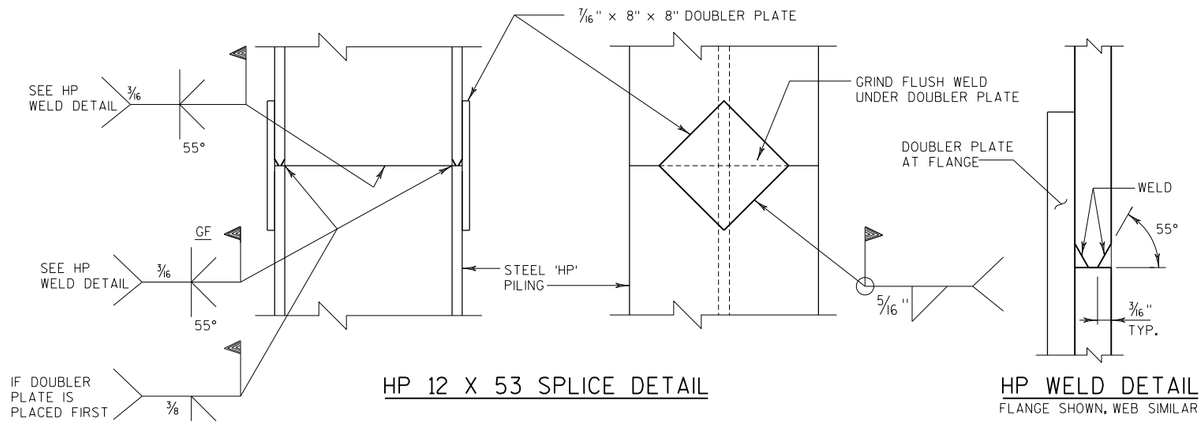
RODENT SHIELD

NOTES:

*DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SHIELD SO SLOTS ARE VERTICAL.

THE RODENT SCREEN, PIPE COUPLING AND SCREWS SHALL BE INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH"

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



HP 12 X 53 SPLICE DETAIL

HP WELD DETAIL

FLANGE SHOWN, WEB SIMILAR

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-58-129

DRAWN BY AJC | PLANS CK'D. MDR

SOUTH ABUTMENT DETAILS

SHEET 6 OF 19

8

8

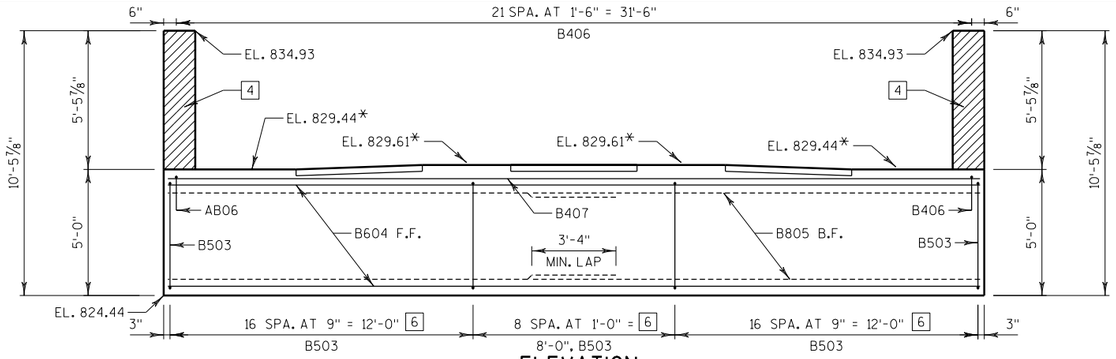
FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\09 STRUCTURES\B-58-129- St. Augustine over STH 29\Plan\080106_sd.dgn

PLOT DATE : 8/16/2016

PLOT BY : ajc

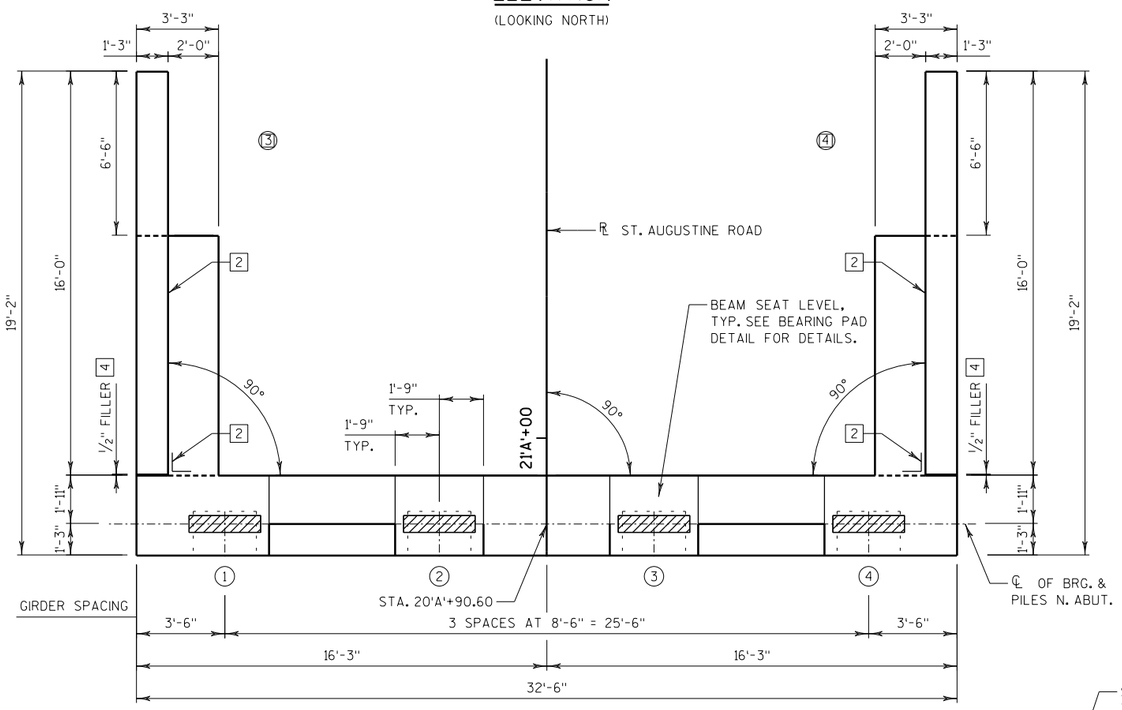
STATE PROJECT NUMBER

1058-25-70

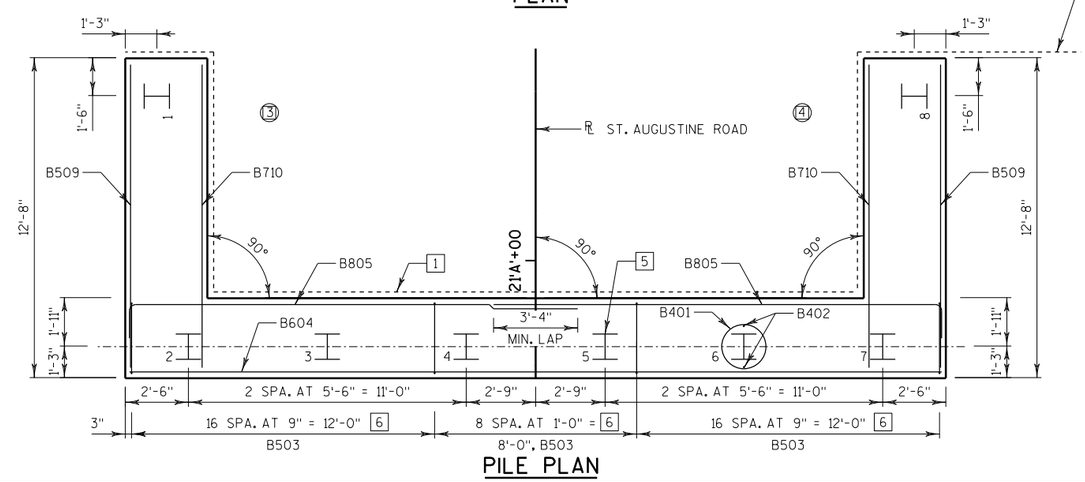


ELEVATION

(LOOKING NORTH)



PLAN



PILE PLAN

SLOPE 1% TO DAYLIGHT TO SUITABLE DRAINAGE AREA. SEE ROADWAY PLANS FOR DETAILS.

GENERAL NOTES

SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE.)

F.F. DENOTES FRONT FACE.

B.F. DENOTES BACK FACE.

SEE SHEET 9 FOR TYPCIAL SECTION OF ABUTMENT.

FOR PILE SPLICE DETAIL SEE SHEET 6.

(X) INDICATES GIRDER NUMBER.

(X) INDICATES WINGWALL NUMBER.

1 INDICATES PILE NUMBER

[1] PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE AS DIRECTED BY THE ENGINEER. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON SHEET 6. RODENT SHIELD TO BE INCLUDED IN BID PRICE OF "PIPE UNDERDRAIN WRAPPED 6-INCH". CAP END AS SHOWN.

[2] 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL VERTICAL AND HORIZONTAL JOINTS ON BACK FACE.

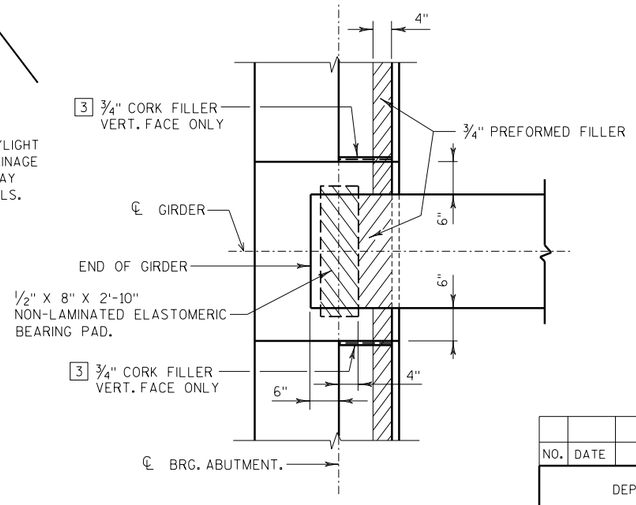
[3] ¾" CORK FILLER ON VERTICAL BEAM SEAT FACES THAT RUN PARALLEL WITH GIRDER.

[4] ½" FILLER - EXTEND FROM BEAM SEAT TO TOP OF CONCRETE PARAPET. INCLUDED IN WINGWALL LENGTH.

[5] SUPPORT ABUTMENT ON HP 12x53 STEEL PILING, ESTIMATED 35'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE.

[6] SPACE TO MISS PILES.

* ELEVATIONS AND DIMENSIONS TAKEN AT ℄ OF BRG. & PILES NORTH ABUTMENT.



BEARING PAD DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-58-129

DRAWN BY AJC | PLANS CK'D. MDR

NORTH ABUTMENT

SHEET 7 OF 19

8

8

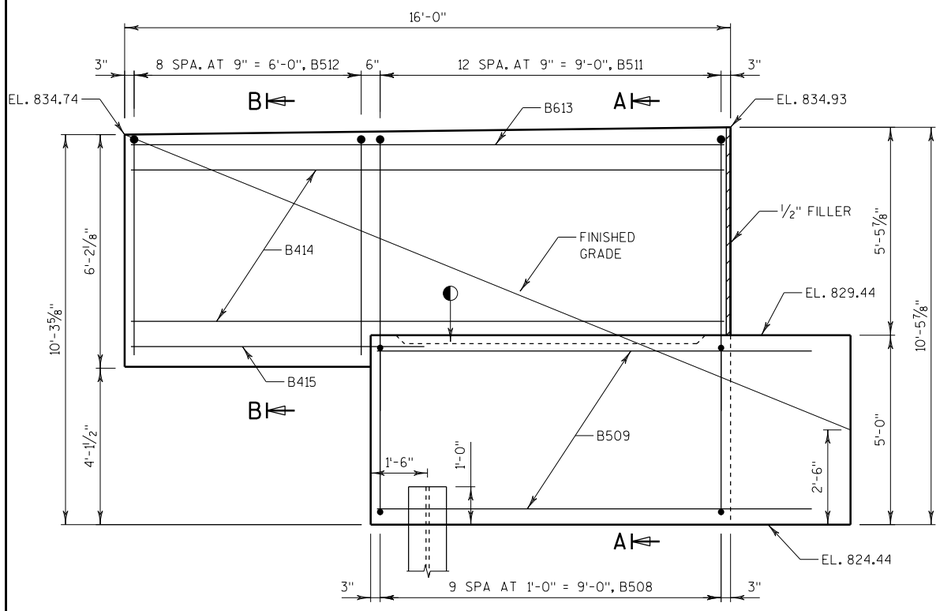
FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\09 STRUCTURES\B-58-129- St. Augustine over STH 29\Plan\080107_na.dgn

PLOT DATE : 8/16/2016

PLOT BY : ajc

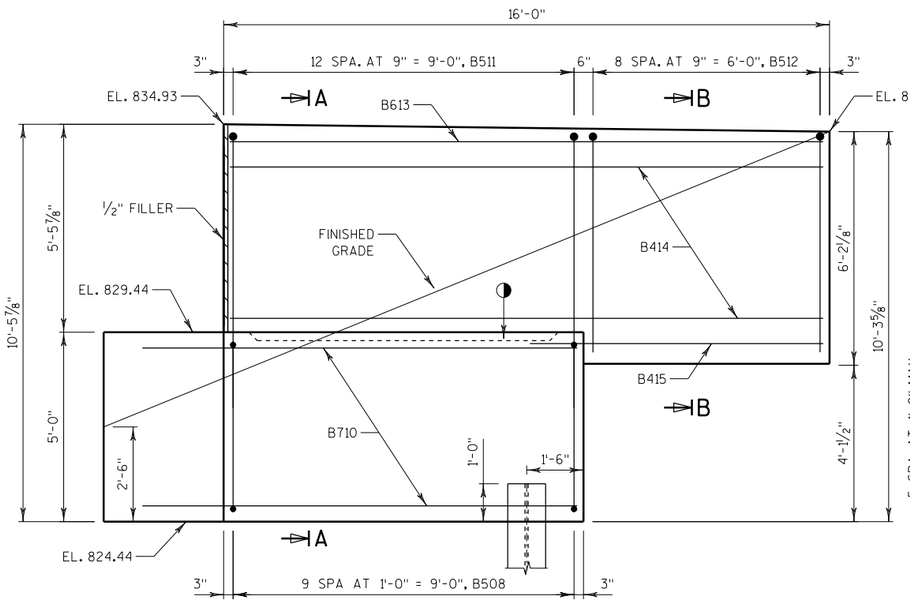
STATE PROJECT NUMBER

1058-25-70



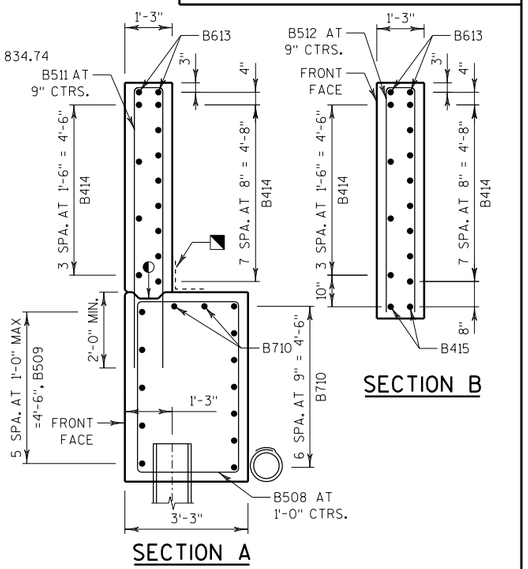
WING 3 ELEVATION

(FRONT FACE)



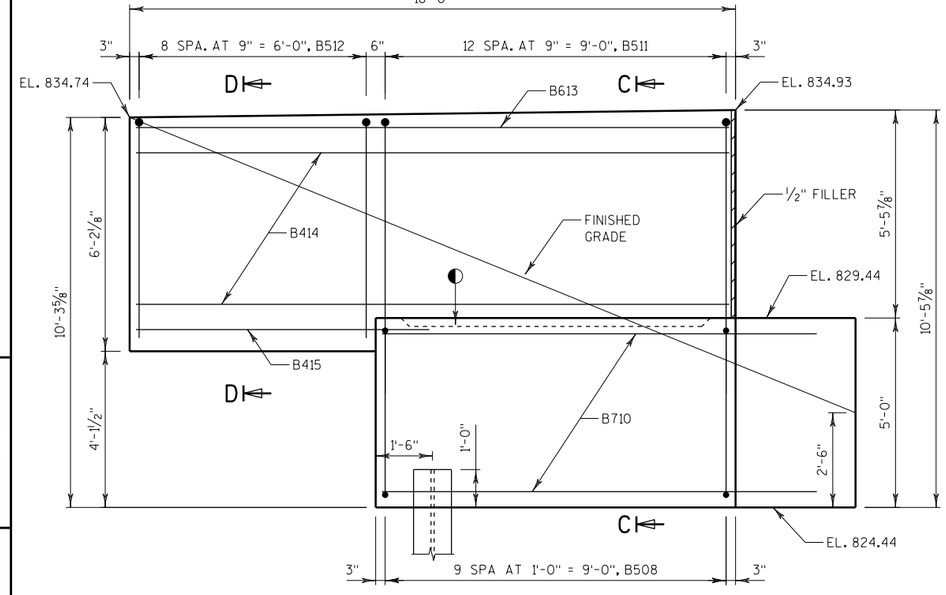
WING 3 ELEVATION

(BACK FACE)



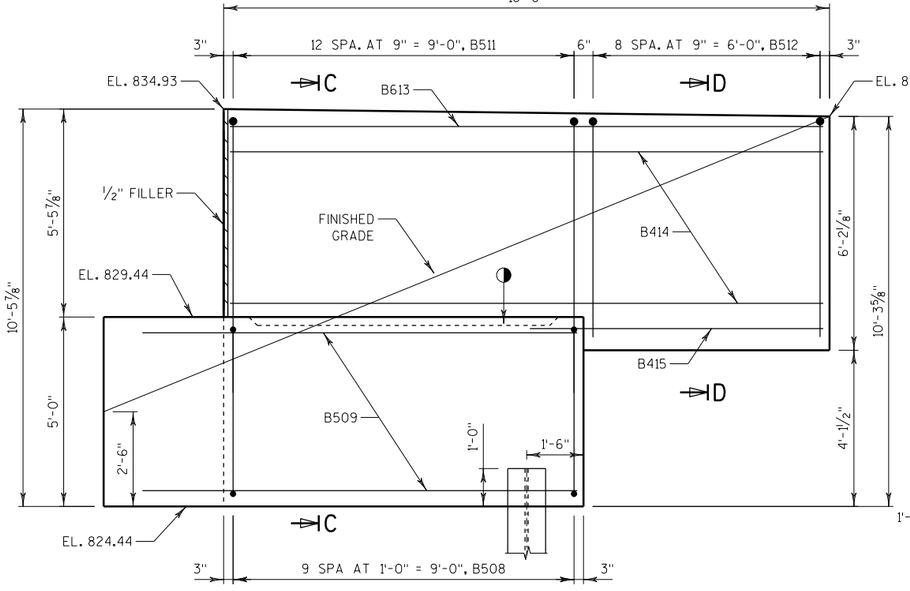
SECTION B

SECTION A



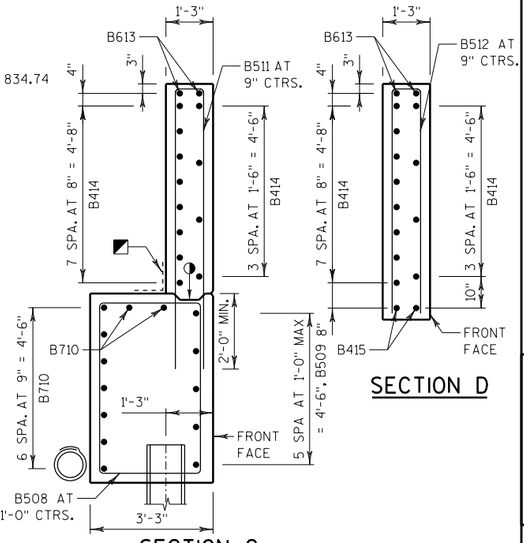
WING 4 ELEVATION

(BACK FACE)



WING 4 ELEVATION

(FRONT FACE)



SECTION D

SECTION C

◐ OPTIONAL KEYED CONST. JOINT - FORMED BY A SURFACE BEVELED 2"x6.

◥ 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZ. AND VERT. JOINTS ON BACKFACE OF ABUTMENT

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-58-129

DRAWN BY AJC | PLANS CK'D. MDR

NORTH ABUTMENT WING DETAILS

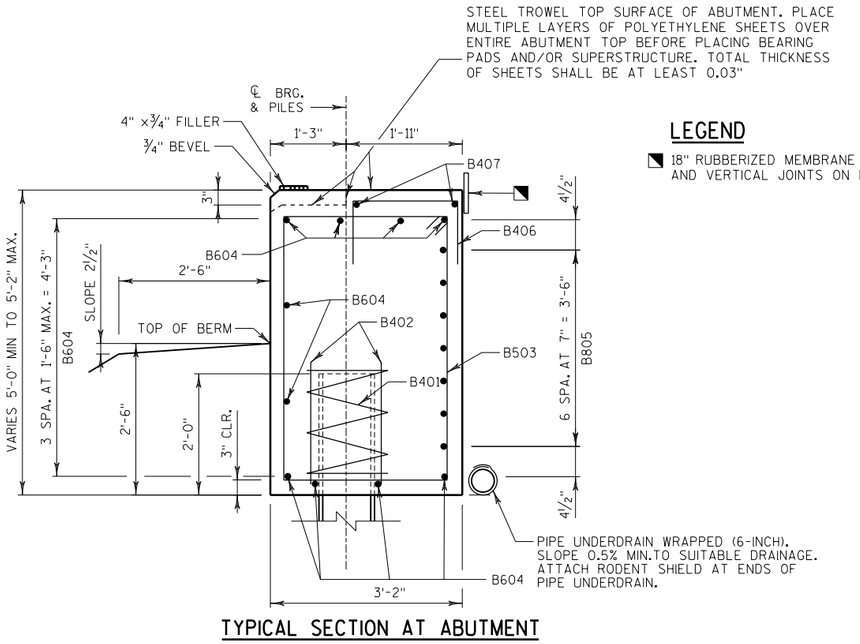
SHEET 8 OF 19

8

8

STATE PROJECT NUMBER

1058-25-70



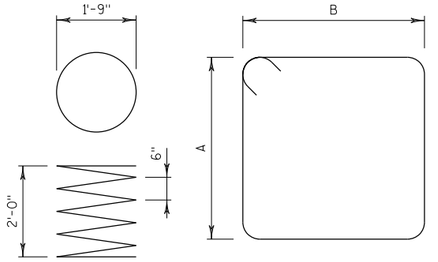
TYPICAL SECTION AT ABUTMENT

LEGEND

▨ 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE.

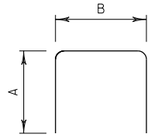
NORTH ABUTMENT BILL OF BARS

BAR MARK	COAT	NO.	LENGTH	BENT	LOCATION
B401		8	28'-0"	X	ABUT. BODY AT PILES
B402		16	2'-3"		ABUT. BODY AT PILES
B503		41	15'-0"	X	ABUT. BODY VERT.
B604		10	32'-2"		ABUT. BODY HORIZ.
B805		14	18'-11"	X	ABUT. BODY HORIZ. B.F.
B406		22	3'-9"	X	ABUT. BODY VERT.
B407		2	32'-2"		ABUT. BODY HORIZ.
B508	X	20	15'-8"	X	WING 3 & 4 STIRRUPS
B509	X	12	11'-1"		WING 3 & 4 HORIZ. F.F.
B710	X	18	12'-1"		WING 3 & 4 HORIZ. B.F.
B511	X	26	15'-6"	X	WING 3 & 4 VERT.
B512	X	18	12'-4"	X	WING 3 & 4 VERT.
B613	X	4	15'-8"		WING 3 & 4 HORIZ.
B414	X	24	15'-8"		WING 3 & 4 HORIZ.
B415	X	4	7'-9"		WING 3 & 4 HORIZ.

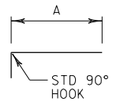


B401

B503, B508,



B406, B511, B512



B805

BAR MARK	A	B
B503	4'-4"	2'-10"
B805	17'-9"	-
B406	1'-2"	1'-7"
B508	4'-7"	2'-11"
B511	7'-5"	11"
B512	5'-10"	11"

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-58-129

DRAWN BY AJC | PLANS CK'D. MDR

NORTH ABUTMENT DETAILS

SHEET 9 OF 19

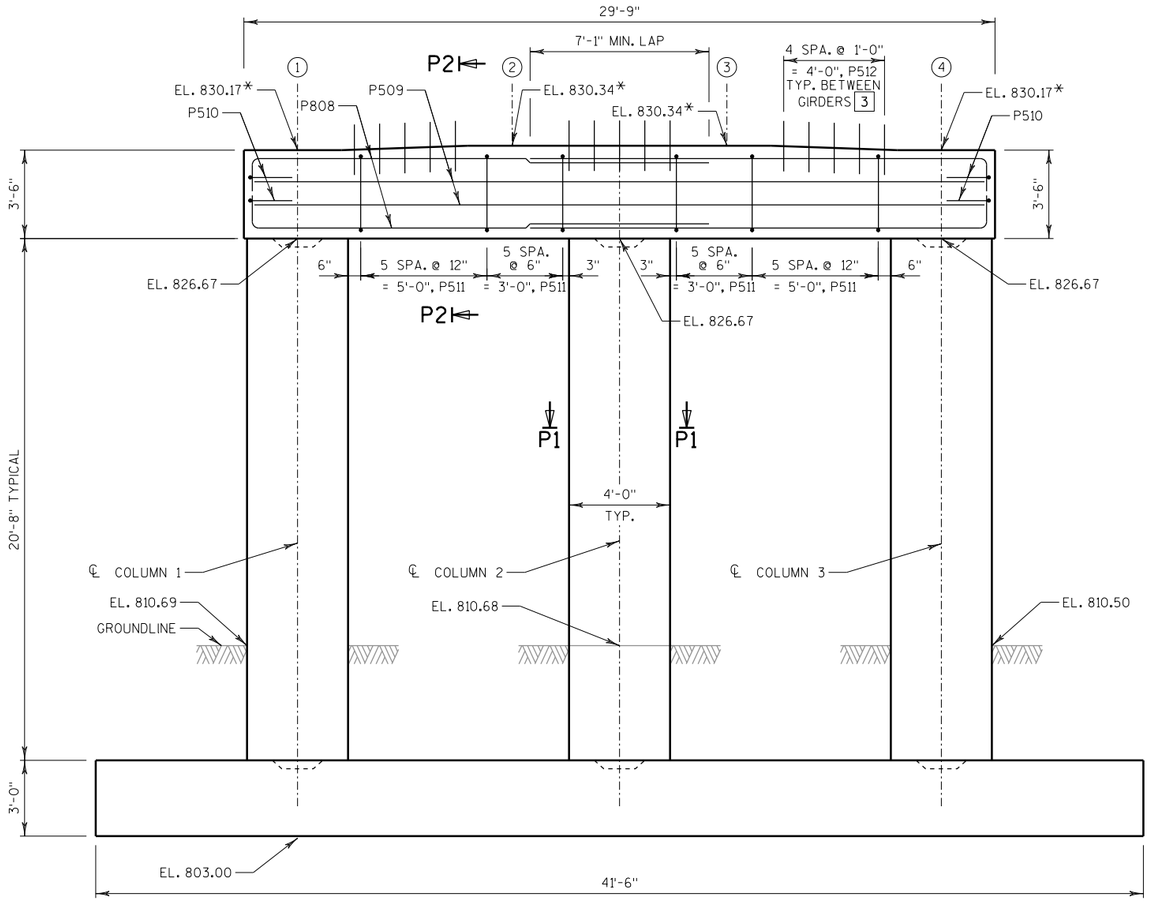
FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\09 STRUCTURES\B-58-129- St. Augustine over STH 29\Plan\080109_nd.dgn

PLOT DATE : 8/16/2016

PLOT BY : ajc

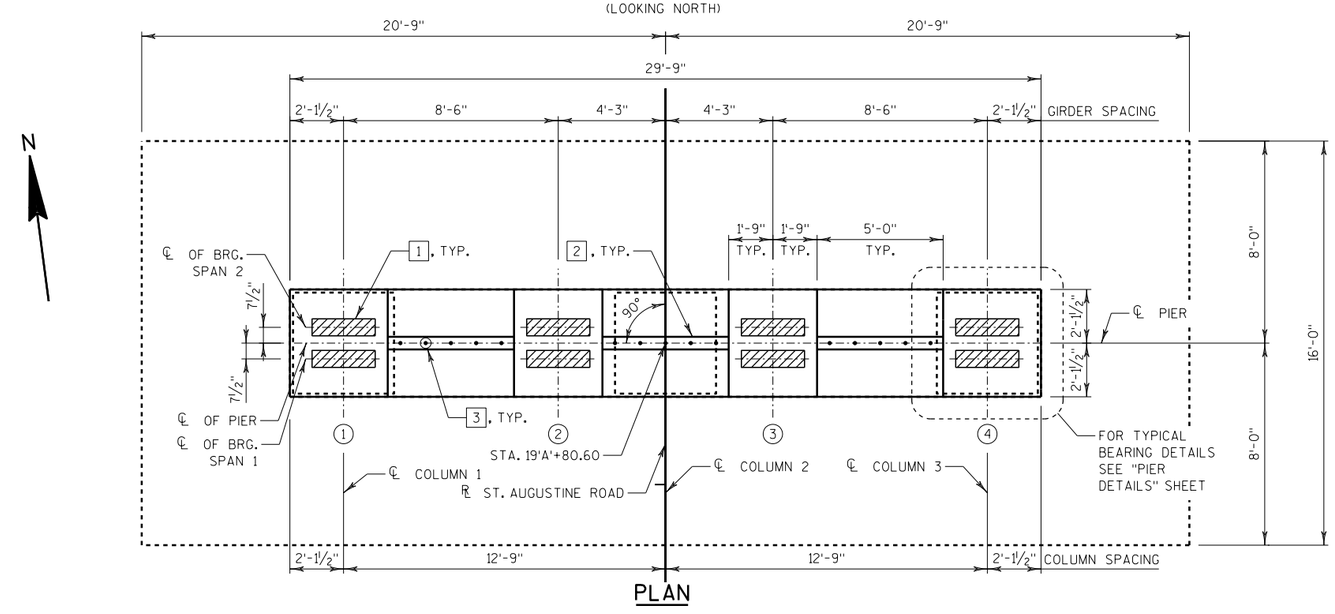
STATE PROJECT NUMBER

1058-25-70

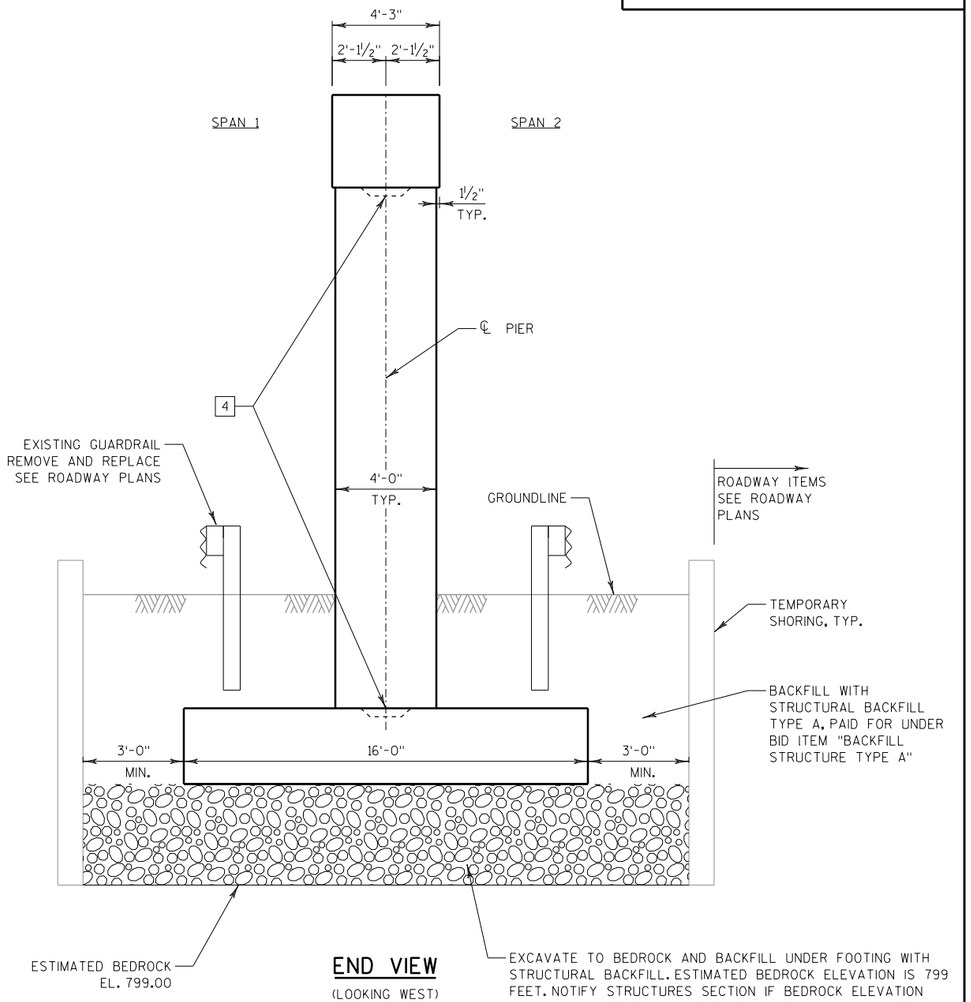


ELEVATION

(LOOKING NORTH)



PLAN



END VIEW

(LOOKING WEST)

LEGEND

- (X) INDICATES GIRDER NUMBER
- [1] BEARING PAD ELASTOMERIC NON-LAMINATED ½" X 8" X 2'-6"
- [2] KEYED CONSTRUCTION JOINT. FORMED BY SURFACE BEVELED 2" X 6" BETWEEN BEAM SEATS.
- [3] P512 BARS AT 1'-0" CENTERS, BETWEEN BEAM SEATS. EMBED 1'-0" INTO CAP CONCRETE.
- [4] 1'-3" X 2'-0" X 4" DEEP CONSTRUCTION JOINT FORMED BY BEVELED KEYWAY.
- ✳ ELEVATIONS AND DIMENSIONS TAKEN AT ℄ OF PIER.

FOR SECTIONS P1 AND P2 SEE SHEET 11.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-58-129

DRAWN BY AJC | PLANS CK'D. MDR

PIER

SHEET 10 OF 19

8

8

FILE NAME : \\Emcs\vol3\VOL3\48xx\4801-4802_DP.13.STH156-STH29.SHA\09 STRUCTURES\B-58-129- St. Augustine over STH 29\Plan\080110_p1.dgn

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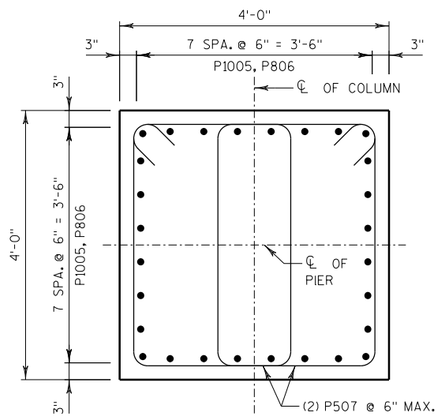
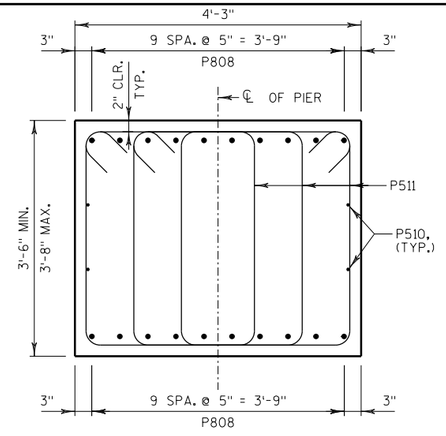


SECTION P1

PIER COLUMN

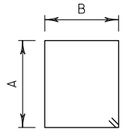


SECTION P2

PIER CAP

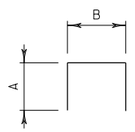
PIER BILL OF BARS

BAR MARK	COAT	NO.	LENGTH	BENT	LOCATION
P901		42	15'-6"		PIER FOOTING - BOTTOM
P602		41	15'-6"		PIER FOOTING - TOP
P903		16	41'-0"		PIER FOOTING - BOTTOM
P604		16	41'-0"		PIER FOOTING - TOP
P1005	X	84	10'-10"	X	PIER FOOTING DOWEL
P806	X	84	23'-8"		PIER VERT. COLUMN
P507	X	252	12'-6"	X	COLUMN STIRRUPS
P808	X	40	19'-5"	X	PIER CAP - HORIZ. TOP & BOT.
P509	X	4	29'-5"		PIER CAP FACE - HORZ.
P510	X	4	7'-0"	X	PIER CAP - HORZ. AT END
P511	X	66	12'-0"	X	PIER CAP - STIRRUPS
P512	X	15	2'-0"		PIER CAP - VERT. BETWEEN BEAM SEATS



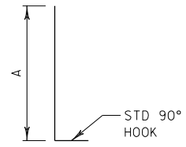
P507, P511

BAR MARK	DIM. A	DIM. B
P507	3'-7"	2'-4"
P511	3'-2"	2'-6"



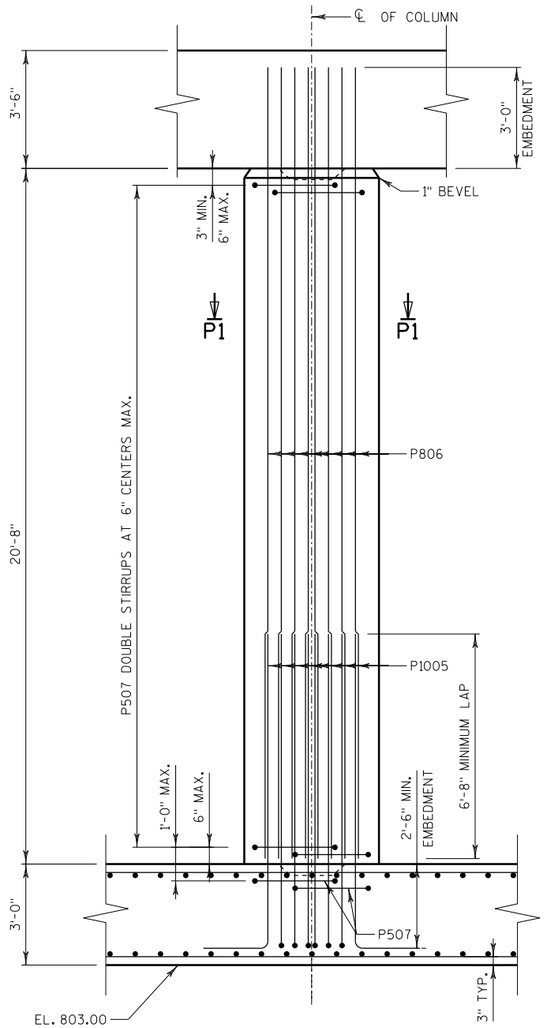
P510

BAR MARK	DIM. A	DIM. B
P510	1'-9"	3'-9"



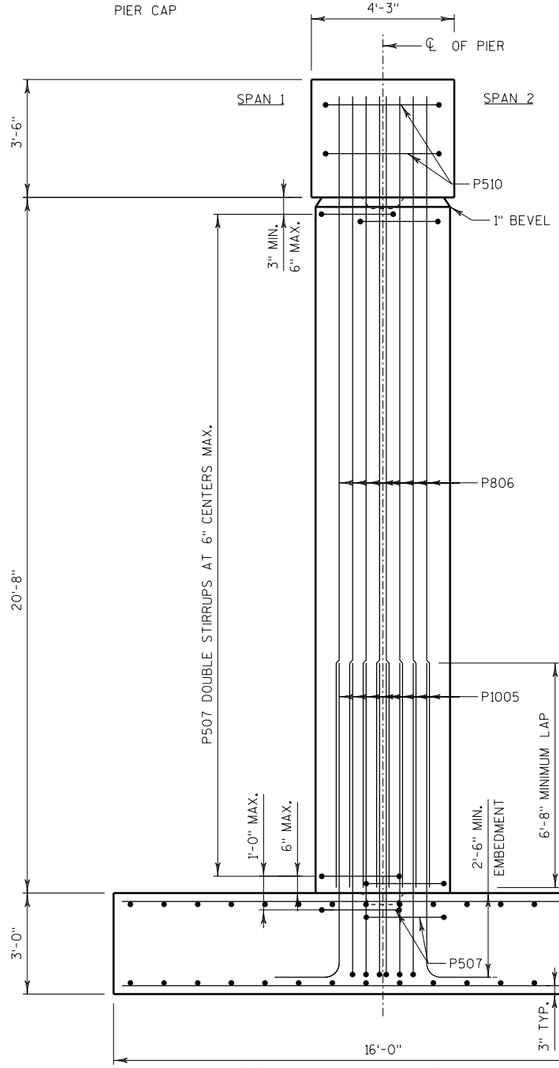
P1005, P808

BAR MARK	DIM. A
P1005	9'-2"
P808	18'-3"



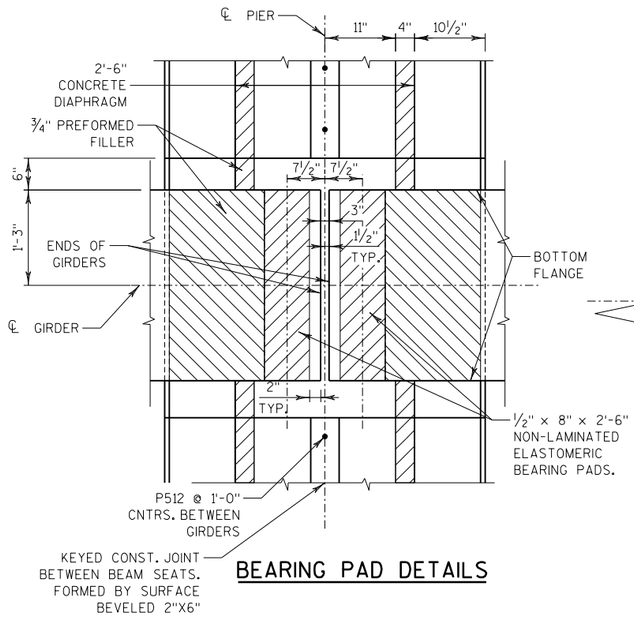
PIER COLUMN ELEVATION

LOOKING UP STATION

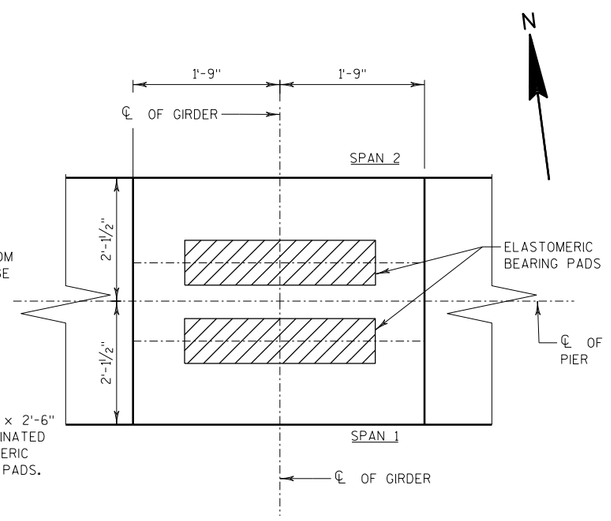


PIER COLUMN ELEVATION- END VIEW

(LOOKING WEST)



BEARING PAD DETAILS



BEAM SEAT DETAILS

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-58-129

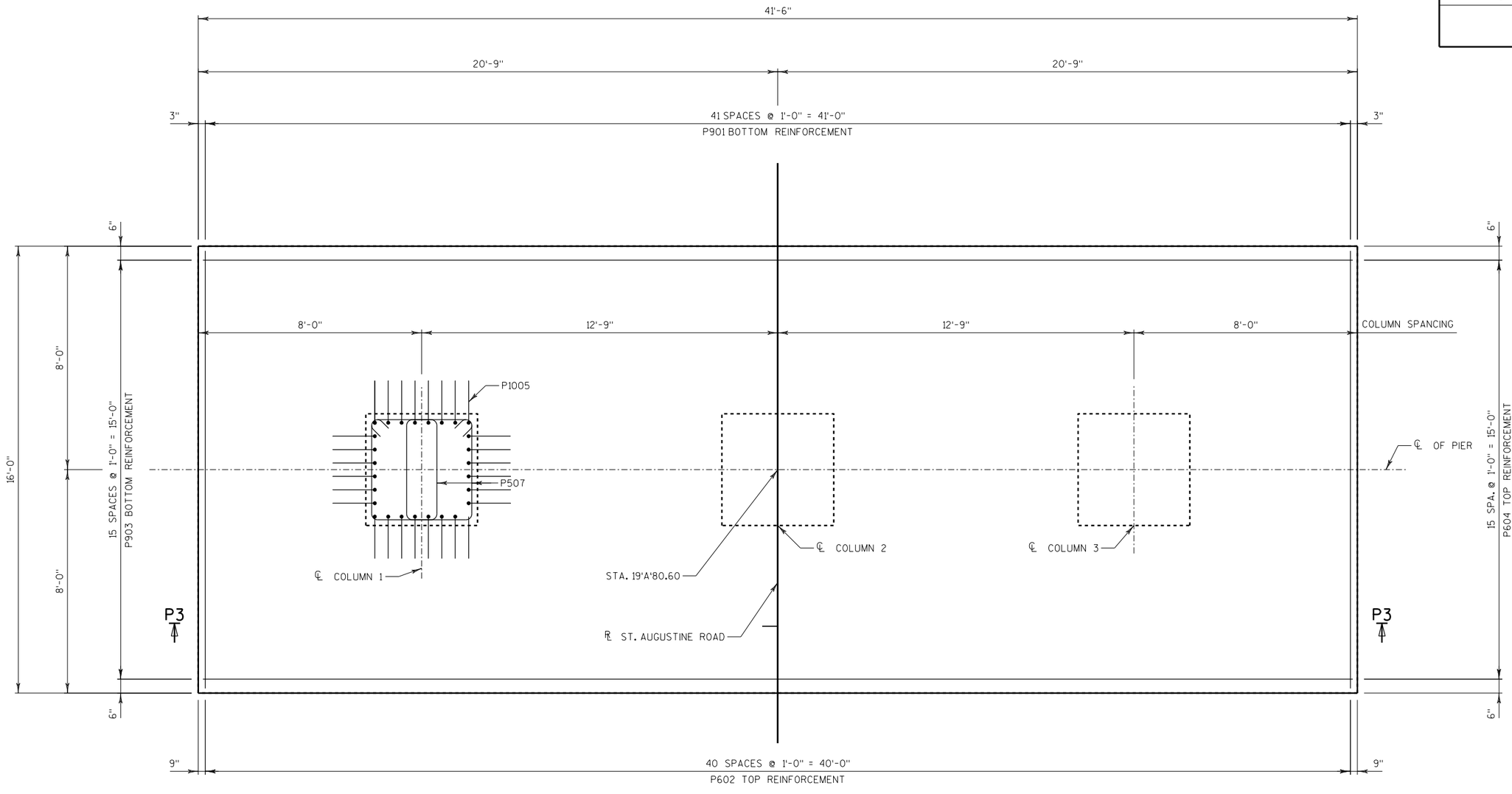
DRAWN BY AJC | PLANS CK'D. MDR

PIER DETAILS

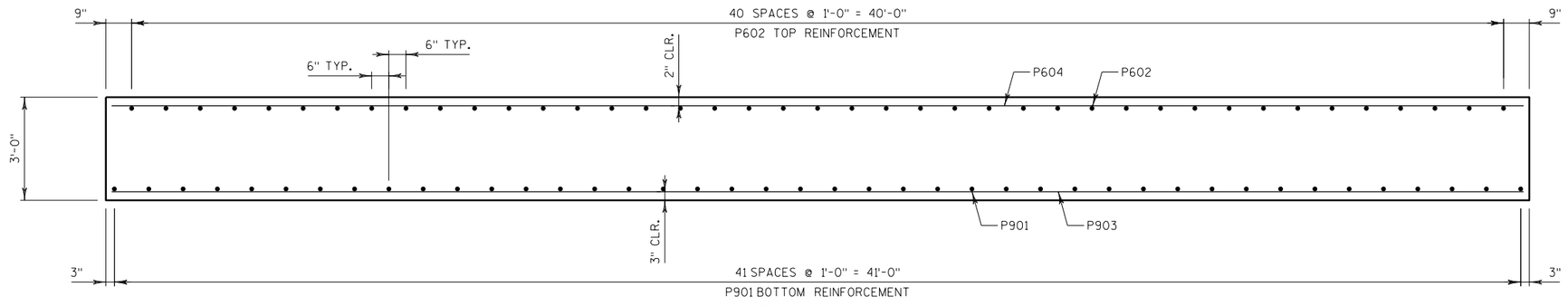
SHEET 11 OF 19

STATE PROJECT NUMBER

1058-25-70



COMBINED FOOTING REINFORCEMENT PLAN



SECTION P3

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-58-129

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PIER FOOTING

SHEET 12 OF 19

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\09 STRUCTURES\B-58-129- St. Augustine over STH 29\Plan\080112_pf.dgn

PLOT DATE : 8/16/2016

PLOT BY : ajc

STATE PROJECT NUMBER

1058-25-70

NOTES

TOP OF GIRDER TO BE ROUGH FLOATED AND BROOMED TRANSVERSELY, EXCEPT THE OUTSIDE 15" OF GIRDER, WHICH SHALL RECEIVE A SMOOTH FINISH. AN APPROVED CONCRETE SEALER SHALL BE APPLIED TO ALL SMOOTH SURFACES INCLUDING THE OUTSIDE 15" OF THE TOP FLANGE.

DO NOT APPLY CONCRETE SEALER TO SURFACES RECEIVING APPLICATION OF CONCRETE STAINING.

THE GIRDERS SHALL BE PROVIDED WITH A SUITABLE LIFTING DEVICE FOR HANDLING AND ERECTING THE GIRDERS. SEE SECTION 503.3.3 OF STANDARD SPECIFICATION FOR GUIDANCE.

STRANDS SHALL BE FLUSH WITH END OF GIRDER. FOR GIRDER ENDS EMBEDDED COMPLETELY IN CONCRETE, END OF STRANDS SHALL BE COATED WITH NON-BITUMINOUS JOINT SEALER. FOR GIRDER ENDS THAT ARE FINALLY EXPOSED, COAT THE GIRDER ENDS, EXPOSED STRAND ENDS AND ALL NON-BONDING SURFACES WITHIN 2 FEET OF THE GIRDER ENDS WITH A NON-PIGMENTED EPOXY CONFORMING TO AASHTO M-235 TYPE III, GRADE 2, CLASS B OR C. THE EPOXY SHALL BE APPLIED AT LEAST 3 DAYS AFTER MOIST CURING HAS CEASED AND PRIOR TO THE APPLICATION OF THE SEALER.

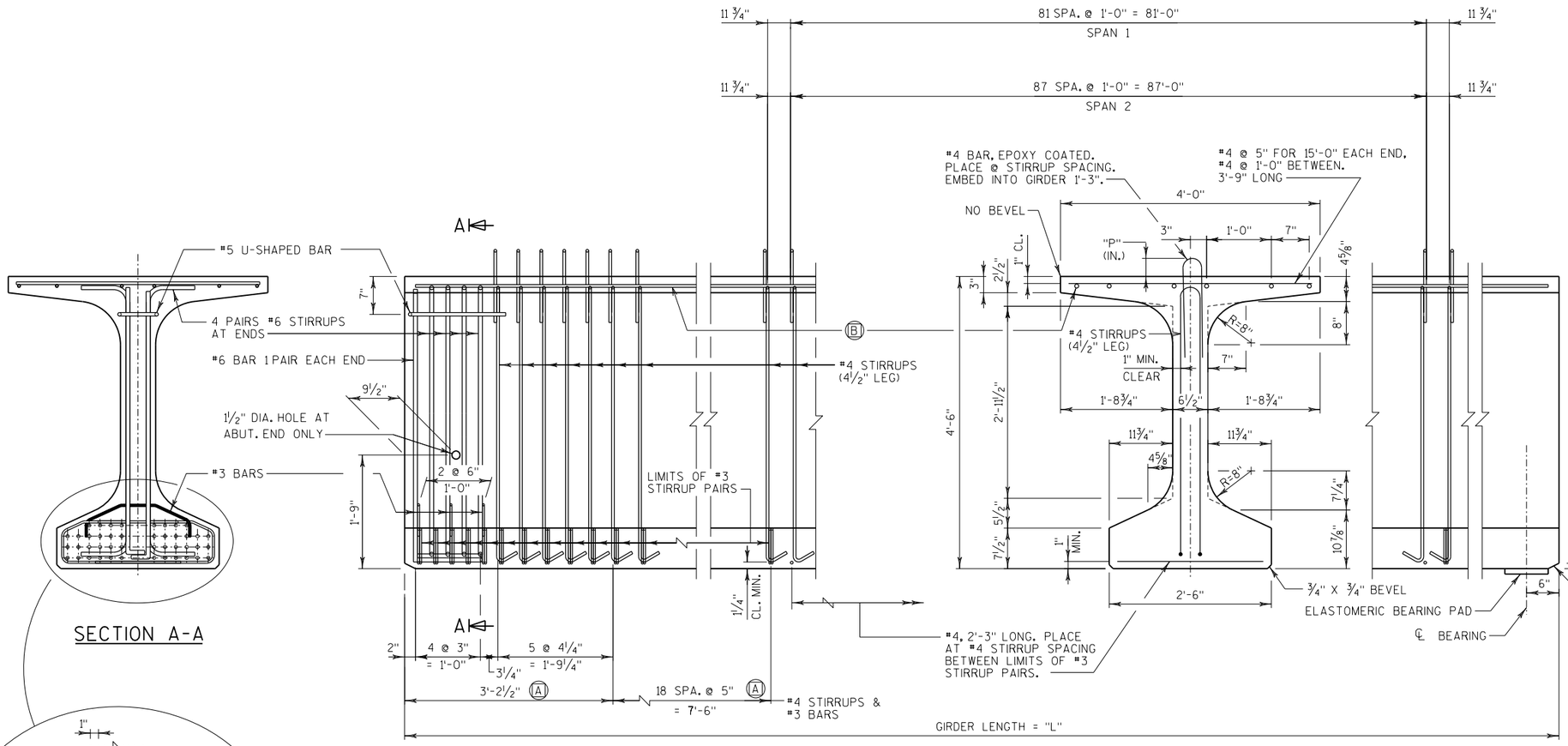
ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN.

SPACING SHOWN FOR #4 STIRRUPS IS FOR GRADE 60 REINFORCEMENT.

AN ALTERNATE EQUIVALENT OF WELDED WIRE FABRIC (WWF) ASTM A497 MAY BE SUBSTITUTED FOR THE STIRRUP REINFORCEMENT SHOWN, UPON APPROVAL OF THE STRUCTURES DEVELOPMENT SECTION.

PRESTRESSING STRANDS SHALL BE (0.6" DIA.)-7 WIRE LOW-RELAXATION STRANDS WITH AN ULTIMATE STRENGTH OF 270,000 PSI.

FOR DIAPHRAGM INSERT & CONNECTION DETAILS SEE "STEEL DIAPHRAGM" SHEET.

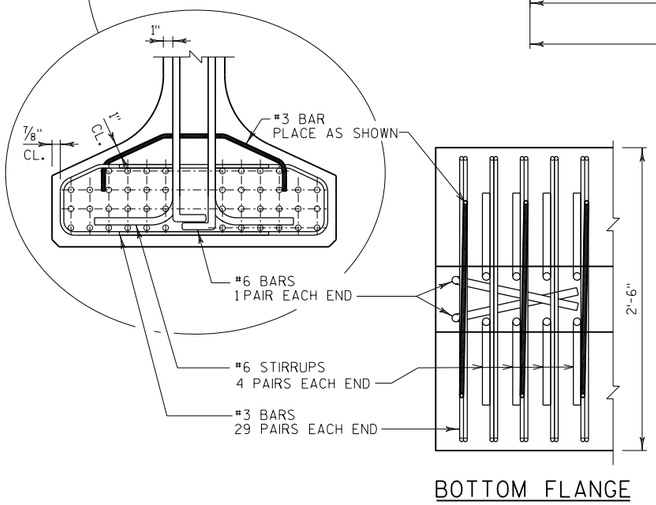


SECTION A-A

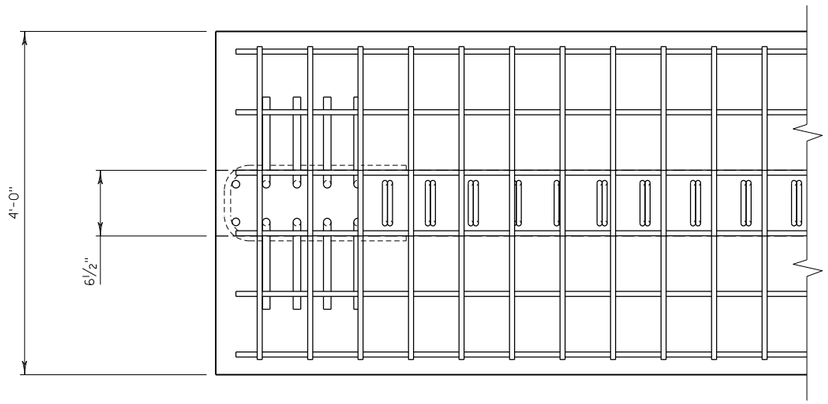
SIDE VIEW & TYP. SECTION IN SPAN

(A) DETAIL TYP. AT EACH END

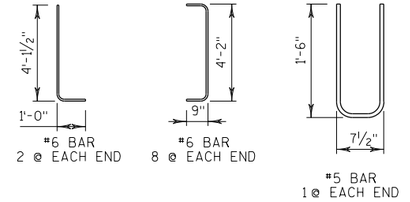
(B) 6 #4 BARS, FULL LENGTH, MIN. LAP = 2'-6"

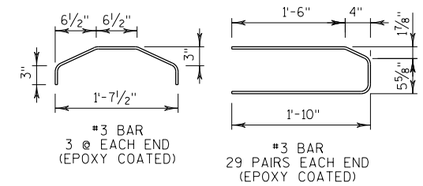


BOTTOM FLANGE



TOP FLANGE





NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-58-129

DRAWN BY AJC | PLANS CK'D. MDR

54W" PRESTRESSED GIRDER

SHEET 13 OF 19

8

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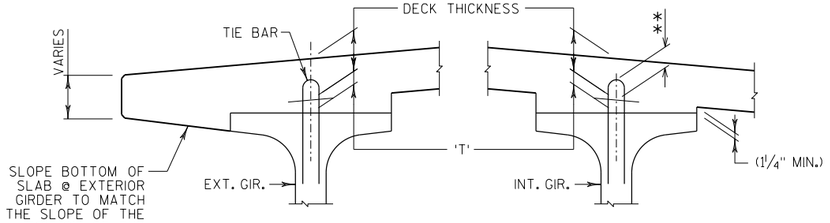
FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\09 STRUCTURES\B-58-129- St. Augustine over STH 29\Plan\080113_gi.dgn

PLOT DATE : 8/16/2016

PLOT BY : ajc

STATE PROJECT NUMBER

1058-25-70



DECK HAUNCH DETAIL

IF 1¼" MINIMUM HAUNCH HEIGHT AT EDGE OF GIRDER CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR, THE PLAN DECK THICKNESS SHALL BE HELD. NOTIFY THE STRUCTURES SECTION IF THE GRADE LINE IS RAISED FROM THE PLAN PROFILE BY MORE THAN ½" OR,

** IF 3" MINIMUM DECK EMBEDMENT OF TIE BAR CANNOT BE OBTAINED.

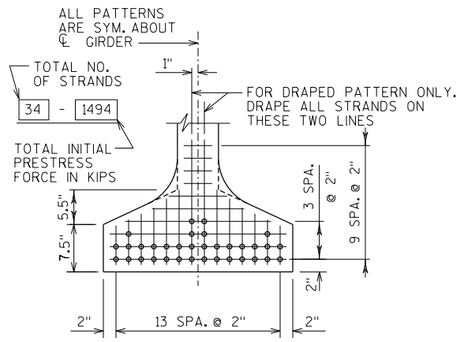
TO DETERMINE 'T', ELEV. OF TOP OF GIRDERS. AT ℄ OF SUBSTRUCTURE UNITS & AT 1/10 POINTS OF EACH SPAN SHALL BE TAKEN. THEN FOLLOW THIS PROCESS:

TOP OF DECK ELEV. AT FINAL GRADE
\- TOP OF GIRDER ELEVATION
\+ DEAD LOAD DEFLECTION
\- DECK THICKNESS
= HAUNCH HEIGHT 'T'

NOTE: AN AVERAGE HAUNCH ('T') OF 3" WAS USED IN THE QUANTITY "CONCRETE MASONRY BRIDGES".

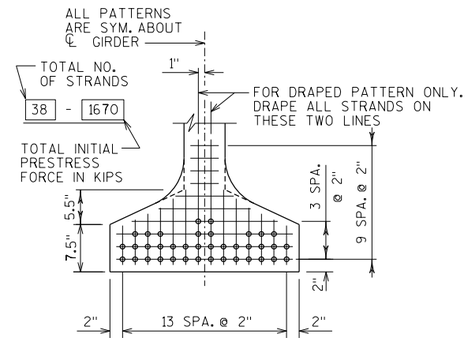
GIRDER DATA																						
SPAN	GIRDER	GIRDER LENGTH "L"	DEAD LOAD DEFL. (IN)									CONC. STRGTH. f'c (psi)	"P" FIRST 1/3 OF GIRDER	"P" MID 1/3 OF GIRDER	"P" END 1/3 OF GIRDER	DIA. OF STRAND (IN.)	DRAPED PATTERN					
			1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10						TOTAL NO. OF STRANDS	f'ci (psi) ☆	(IN.) "A"	"B" MIN.	"B" MAX"	"C"
1	1,4	104'-4 1/2"	0.4	0.8	1.1	1.3	1.3	1.3	1.1	0.8	0.4	8,000	6.50	6.00	6.50	0.6	34	6,800	49	16	19	5
1	2,3	104'-4 1/2"	0.4	0.8	1.1	1.3	1.3	1.3	1.1	0.8	0.4	8,000	6.50	6.00	6.50	0.6	34	6,800	49	16	19	5
2	1,4	110'-4 1/2"	0.5	1.0	1.4	1.6	1.7	1.6	1.4	1.0	0.5	8,000	6.50	6.00	6.50	0.6	38	6,800	49	16	19	5
2	2,3	110'-4 1/2"	0.5	1.0	1.4	1.6	1.7	1.6	1.4	1.0	0.5	8,000	6.50	6.00	6.50	0.6	38	6,800	49	16	19	5

☆ MINIMUM CYLINDER STRENGTH OF CONCRETE @ TIME OF TRANSFER OF PRESTRESS FORCE.



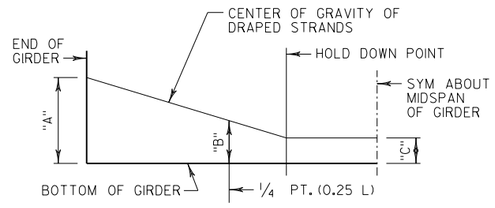
TYPICAL STRAND PATTERN

SPAN 1



TYPICAL STRAND PATTERN

SPAN 2



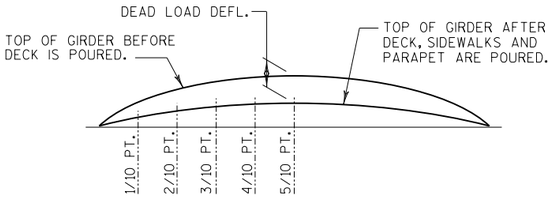
DRAPED STRAND PROFILE

*THE THEORETICAL INITIAL CAMBER VALUE AT THE TIME OF STRAND RELEASE AT MIDSPAN MULTIPLIED BY A FACTOR OF 1.4 TO ACCOUNT FOR CAMBER GROWTH FROM THE TIME OF STRAND RELEASE TO JOBSITE PLACEMENT.

SPAN	CAMBER (IN.) *
1	3.0"
2	3.0"

THESE VALUES ARE NOT TO BE USED IN DETERMINING 'T', USE ACTUAL GIRDER SHOTS.

THESE VALUES ARE FOR INFORMATIONAL PURPOSES ONLY.



DEAD LOAD DEFLECTION DIAGRAM

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-58-129

DRAWN BY AJC | PLANS CK'D. MDR

54W" PRESTRESSED GIRDER DETAILS

SHEET 14 OF 19

8

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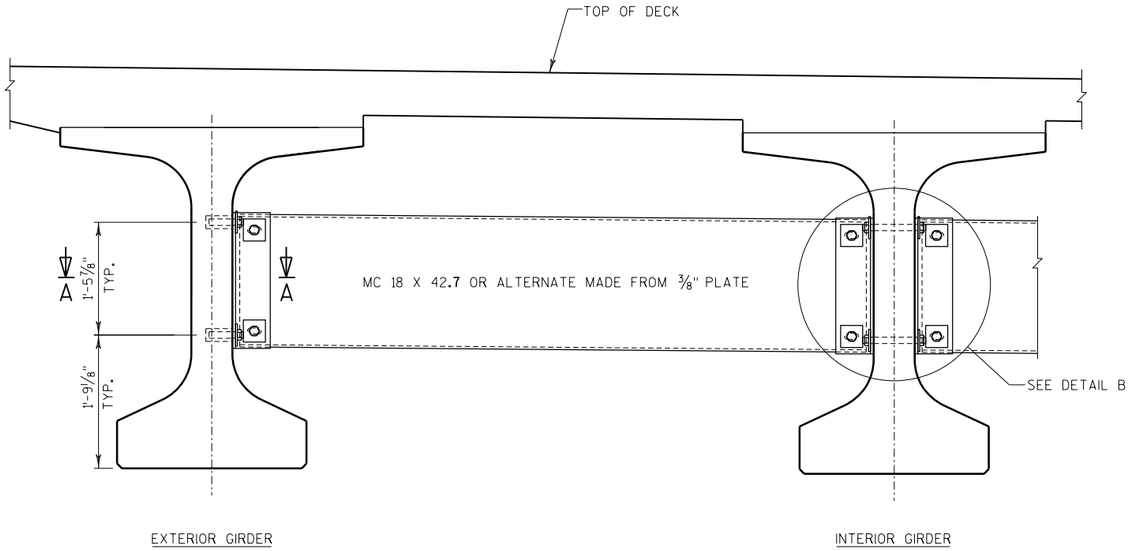
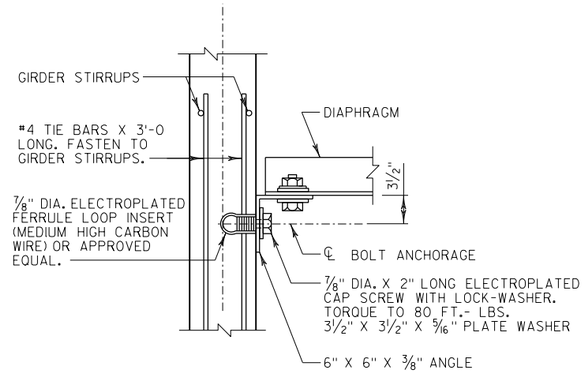
STATE PROJECT NUMBER

1058-25-70



PART TRANSVERSE SECTION AT DIAPHRAGM



SECTION A-A

(FOR EXTERIOR ATTACHMENT)

NOTES

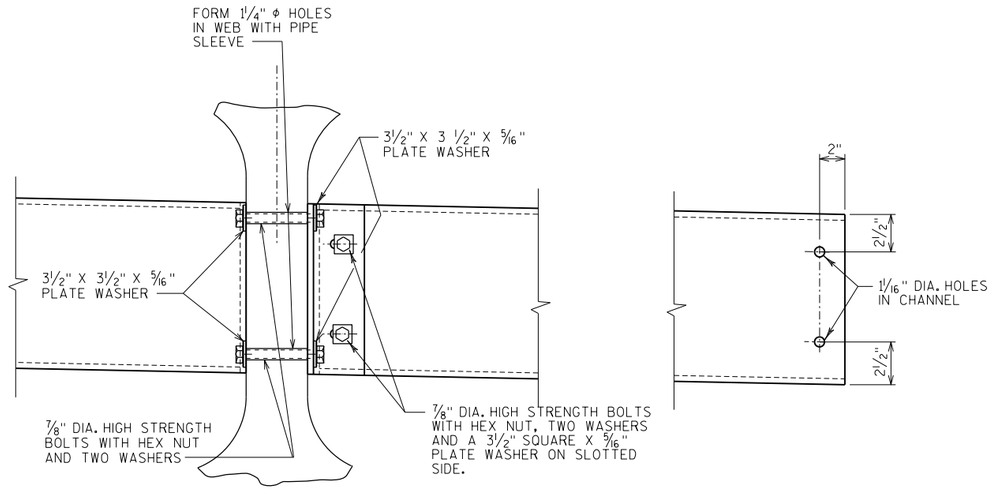
ALL DIAPHRAGM MATERIAL NOT EMBEDDED IN THE CONCRETE GIRDER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STEEL DIAPHRAGMS B-58-129", EACH.

EACH DIAPHRAGM BETWEEN GIRDERS SHALL CONSTITUTE ONE UNIT.

ALL DIAPHRAGM STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 36.

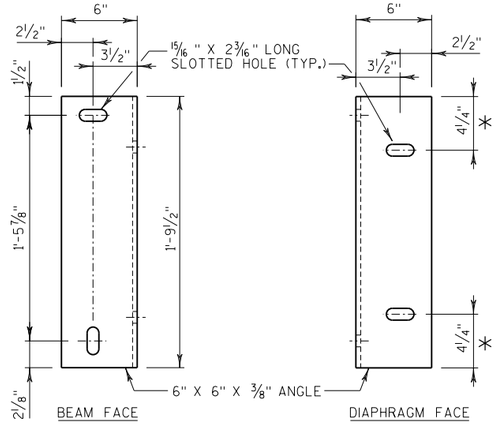
ALL DIAPHRAGM MATERIAL INCLUDING BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AFTER FABRICATION.

STEEL DIAPHRAGM TO CONCRETE WEB CONNECTION SHALL BE SNUG-TIGHT PLUS ¼ TURN, UNLESS NOTED OTHERWISE. HIGH STRENGTH BOLTS FOR WEB CONNECTION SHALL MEET THE REQUIREMENTS FOR ASTM A325 OR ASTM A449.



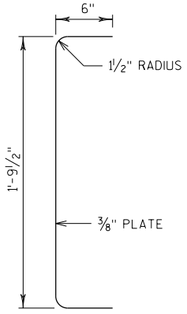
(FOR CONTINUOUS LINE OF DIAPHRAGM)

DETAIL B



DIAPHRAGM SUPPORT

* 2½" FOR ALTERNATE PLATE DIAPHRAGM



SECTION THRU ALTERNATE DIAPHRAGM

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-58-129

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STEEL DIAPHRAGM

SHEET 15 OF 19

8

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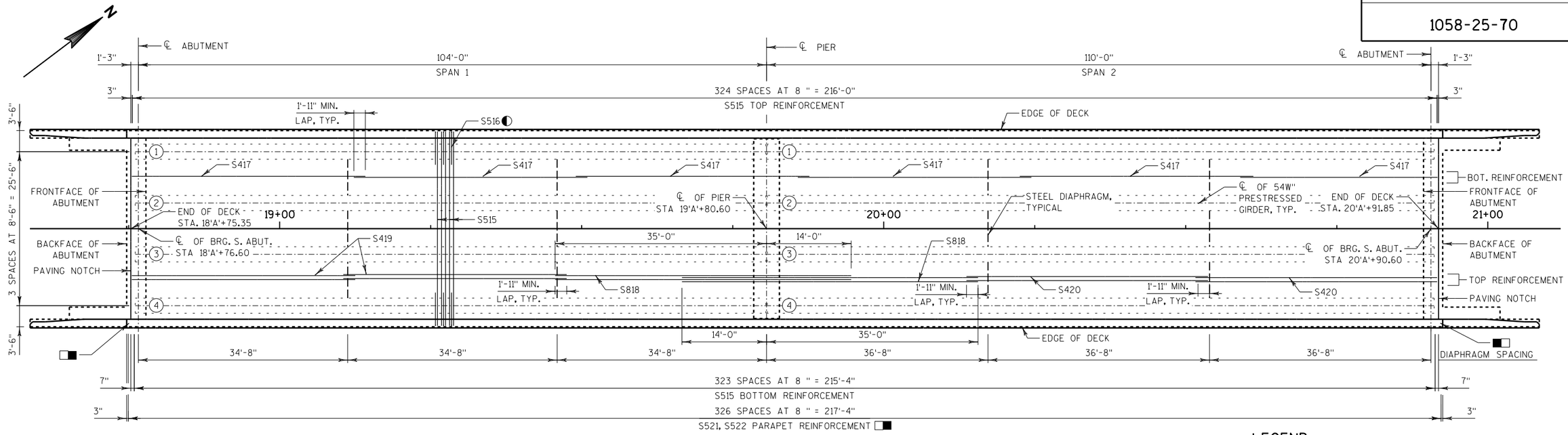
FILE NAME : \\Emcs\vol3\VOL3\48xx\4801-4802_DP.13.STH156-STH29.SHA\09 STRUCTURES\B-58-129- St. Augustine over STH 29\Plan\080115_sd.dgn

PLOT DATE : 8/29/2016

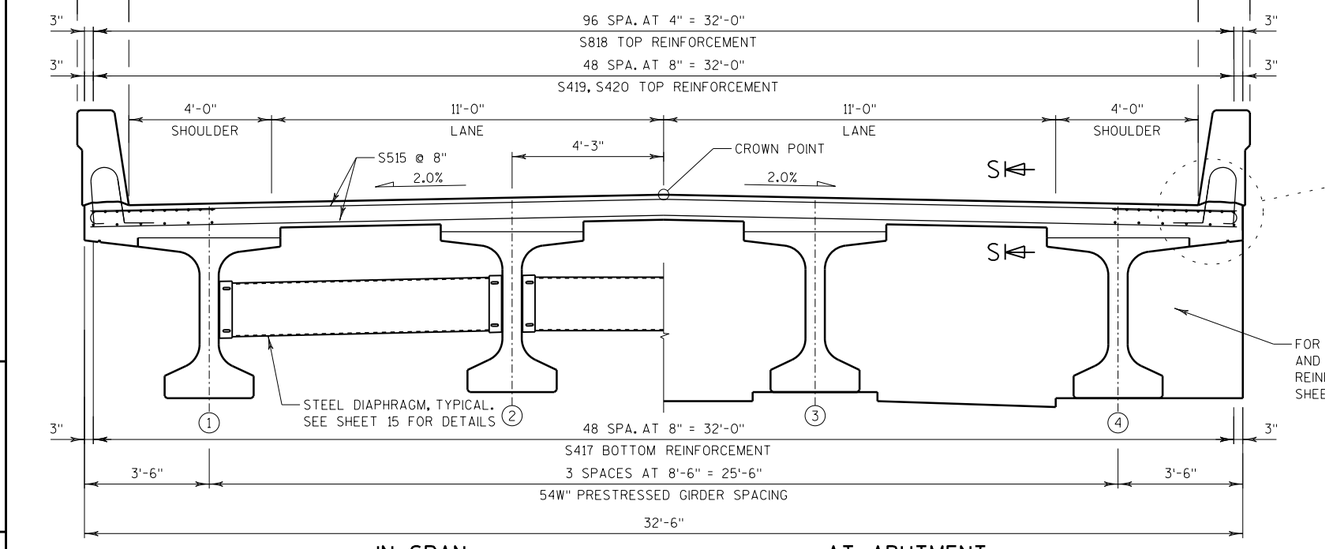
PLOT BY : ajc

STATE PROJECT NUMBER

1058-25-70



PLAN



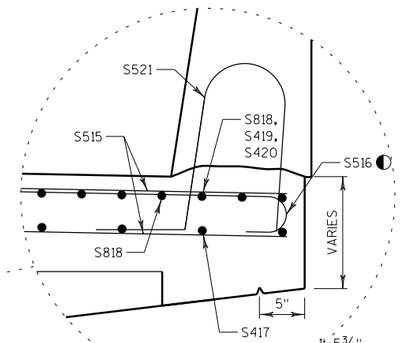
IN SPAN

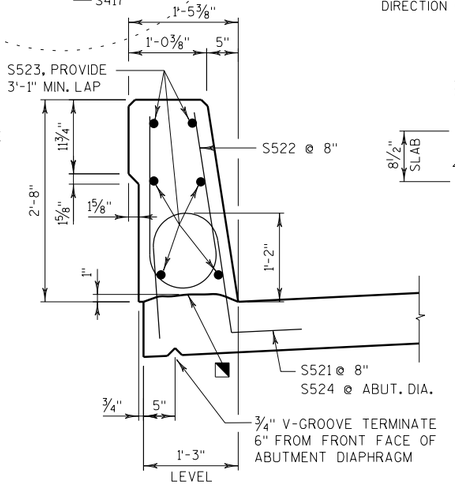
FOR CONCRETE ABUTMENT AND PIER DIAPHRAGM REINFORCEMENT DETAILS SEE SHEET 17

AT ABUTMENT

TYPICAL CROSS SECTION THRU DECK

(LOOKING NORTH)





SECTION THRU PARAPET ON BRIDGE

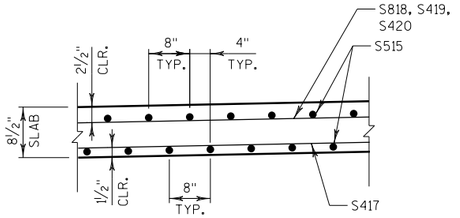
LEGEND:

- LAP S516 ONTO EVERY OTHER TRANSVERSE BAR IN THE TOP MAT AS SHOWN.
- (1) GIRDER NUMBER
- PROVIDE 2-S524 IN PARAPET AT EACH ABUT. DIAPHRAGM. PROVIDE S521 IN PARAPET AT 8" SPACING MAX ALONG SPAN

NOTES:

THE BOTTOM TRANSVERSE BAR STEEL REINFORCEMENT SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS WITH A CENTER TO CENTER SPACING NOT TO EXCEED 4'-0". ONE LINE OF CONTINUOUS BAR CHAIRS SHALL BE PLACED NEAR EACH EDGE OF SLAB TO SUPPORT THE ENDS OF THE BOTTOM TRANSVERSE BAR STEEL.

THE TOP LONGITUDINAL BAR STEEL REINFORCEMENT SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS IN TRANSVERSE DIRECTION ON 4'-0" CENTERS.



SECTION S-S

TOP OF DECK ELEVATIONS

LOCATION	S. ABUT	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.5 PT	0.7 PT	0.8 PT	0.9 PT	PIER	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	N. ABUT
W. EDGE DECK	836.12	836.11	836.08	836.04	835.98	835.93	835.88	835.83	835.77	835.72	835.67	835.62	835.56	835.51	835.45	835.39	835.31	835.23	835.14	835.04	834.93
GIRDER 1	836.17	836.16	836.13	836.09	836.03	835.98	835.92	835.87	835.82	835.77	835.72	835.66	835.61	835.55	835.50	835.43	835.36	835.28	835.19	835.09	834.98
GIRDER 2	836.34	836.33	836.30	836.26	836.20	836.15	836.09	836.04	835.99	835.94	835.89	835.83	835.78	835.72	835.67	835.60	835.53	835.45	835.36	835.26	835.15
GIRDER 3	836.34	836.33	836.30	836.26	836.20	836.15	836.09	836.04	835.99	835.94	835.89	835.83	835.78	835.72	835.67	835.60	835.53	835.45	835.36	835.26	835.15
GIRDER 4	836.17	836.16	836.13	836.09	836.03	835.98	835.92	835.87	835.82	835.77	835.72	835.66	835.61	835.55	835.50	835.43	835.36	835.28	835.19	835.09	834.98
E. EDGE DECK	836.12	836.11	836.08	836.04	835.98	835.93	835.88	835.83	835.77	835.72	835.67	835.62	835.56	835.51	835.45	835.39	835.31	835.23	835.14	835.04	834.93

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-58-129

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SUPERSTRUCTURE PLAN & CROSS SECTION

SHEET 16 OF 19

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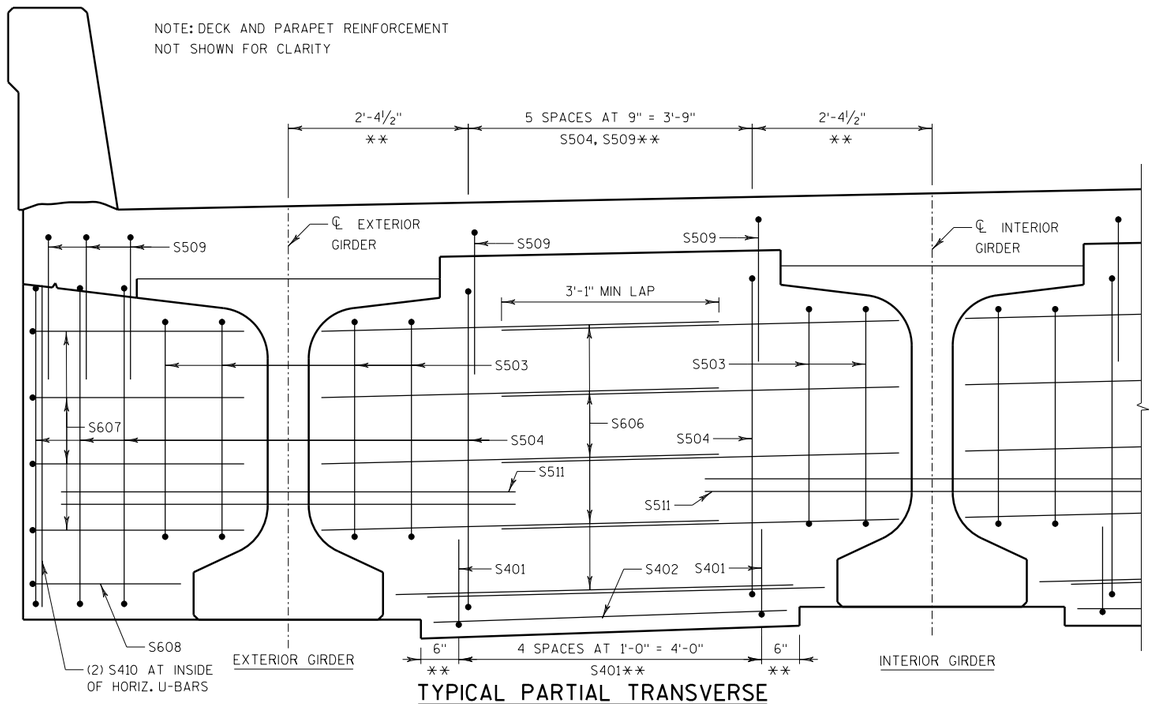
STATE PROJECT NUMBER

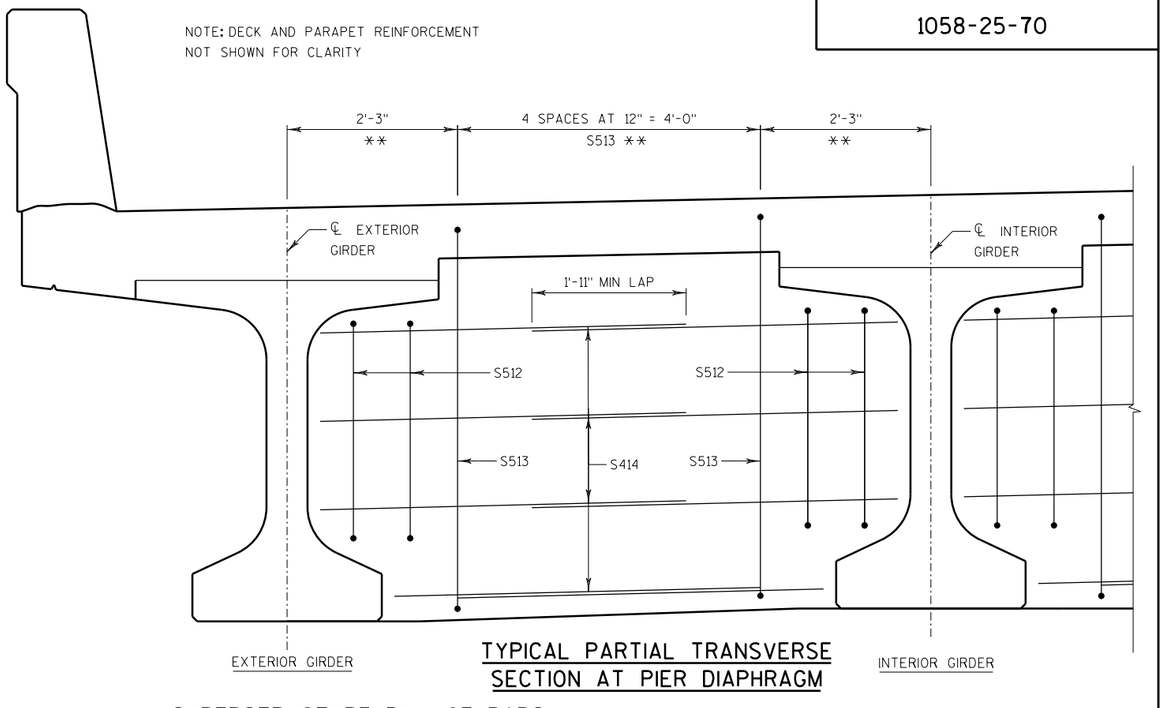
1058-25-70

NOTE: DECK AND PARAPET REINFORCEMENT NOT SHOWN FOR CLARITY



TYPICAL PARTIAL TRANSVERSE SECTION AT ABUTMENT DIAPHRAGM

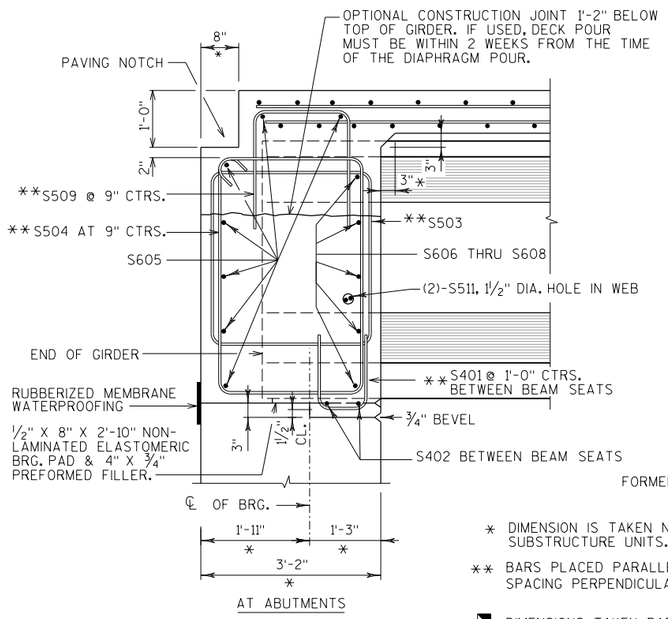
NOTE: DECK AND PARAPET REINFORCEMENT NOT SHOWN FOR CLARITY



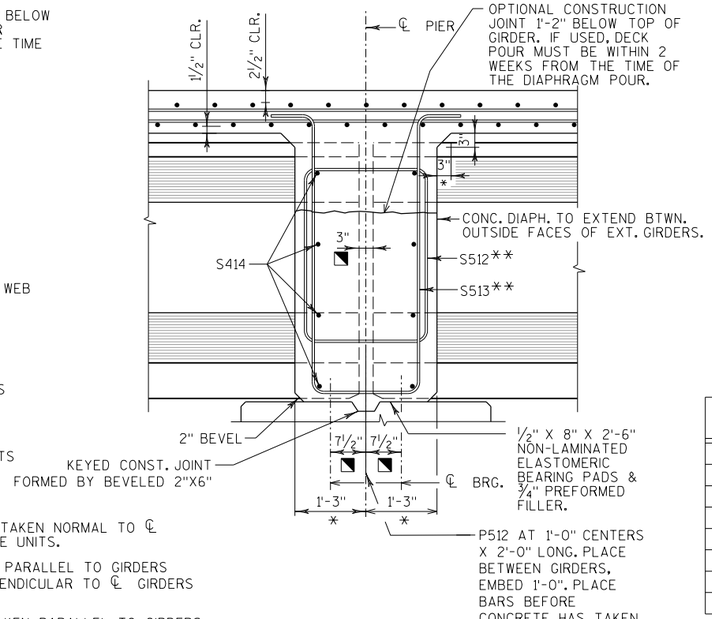
TYPICAL PARTIAL TRANSVERSE SECTION AT PIER DIAPHRAGM

SUPERSTRUCTURE BILL OF BARS

BAR MARK	COAT	NO.	LENGTH	BENT	LOCATION
S401	X	30	3'-5"	X	ABUT. DIAPHRAGM VERT.
S402	X	12	4'-8"		ABUT. DIAPHRAGM HORIZ.
S503	X	32	12'-2"	X	ABUT. DIAPHRAGM STIRRUP
S504	X	48	14'-8"	X	ABUT. DIAPHRAGM STIRRUP
S605	X	14	32'-2"		ABUT. DIAPHRAGM HORIZ.
S606	X	60	5'-5"		ABUT. DIAPHRAGM HORIZ. F.F.
S607	X	16	8'-2"	X	ABUT. DIAPHRAGM END HORIZ.
S608	X	4	6'-4"	X	ABUT. DIAPHRAGM END HORIZ.
S509	X	48	5'-9"	X	ABUT. DIAPHRAGM VERT.
S410	X	8	4'-2"		ABUT. DIAPHRAGM END VERT.
S511	X	16	6'-0"		ABUT. DIAPH. HORIZ. THRU GIRDERS
S512	X	12	10'-10"	X	PIER DIAPHRAGM STIRRUP
S513	X	15	13'-6"	X	PIER DIAPHRAGM VERT.
S414	X	48	4'-10"		PIER DIAPHRAGM HORIZ.
S515	X	649	32'-2"		SLAB TRANS. TOP AND BOTTOM
S516	X	326	5'-5"	X	SLAB TRANS. TOP AT OVERHANGS
S417	X	294	37'-8"		SLAB LONG. BOT.
S818	X	97	49'-0"		SLAB LONG. TOP
S419	X	98	37'-0"		SLAB LONG. TOP SPAN 1
S420	X	98	40'-0"		SLAB LONG. TOP SPAN 2
S521	X	650	4'-5"	X	PARAPET VERT.
S522	X	654	5'-0"	X	PARAPET VERT.
S523	X	48	56'-9"		PARAPET HORIZ.
S524	X	4	5'-10"	X	PARAPET - VERT. AT ABUT. DIAPHRAGM



AT ABUTMENT DIAPHRAGM



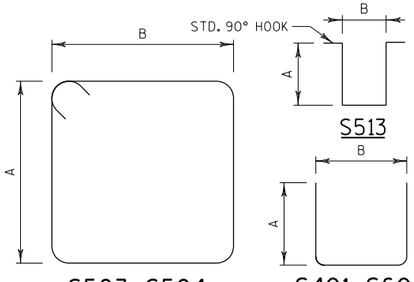
AT PIER DIAPHRAGM

* DIMENSION IS TAKEN NORMAL TO ℄ SUBSTRUCTURE UNITS.

** BARS PLACED PARALLEL TO GIRDERS SPACING PERPENDICULAR TO ℄ GIRDERS

◥ DIMENSIONS TAKEN PARALLEL TO GIRDERS

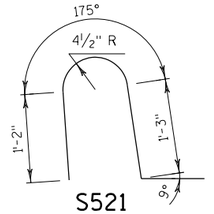
BAR MARK	A	B
S401	1'-4"	11"
S503	2'-11"	2'-10"
S504	4'-2"	2'-10"
S607	2'-10"	2'-10"
S608	1'-11"	2'-10"
S509	1'-11"	2'-2"
S512	2'-11"	2'-2"
S513	5'-1"	2'-2"



S503, S504 S512

S513

S401, S607 S608, S509



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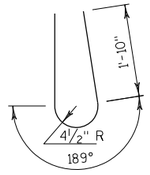

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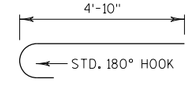

S516

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-58-129

DRAWN BY AJC | PLANS CK'D. MDR

SUPERSTRUCTURE DETAILS

SHEET 17 OF 19

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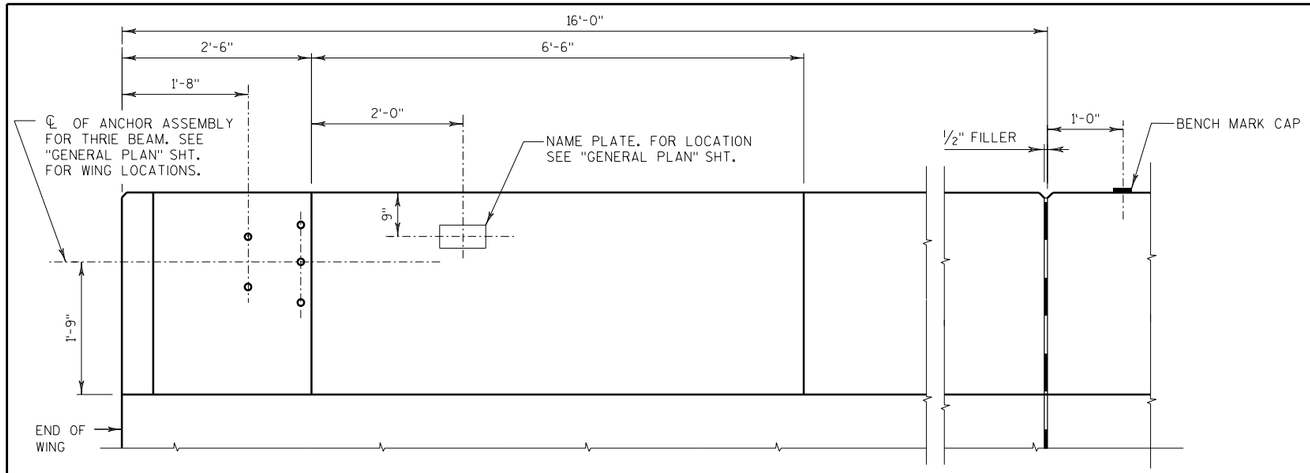
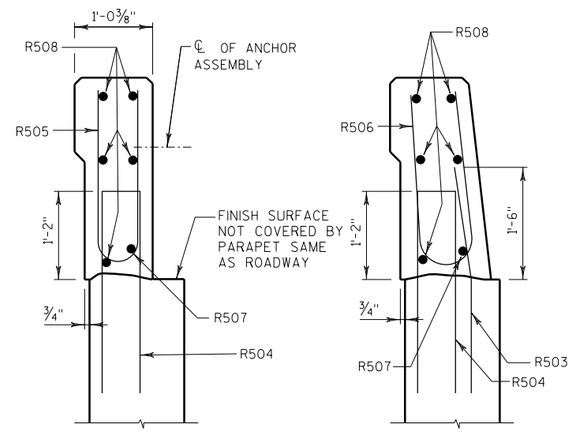
STATE PROJECT NUMBER

1058-25-70

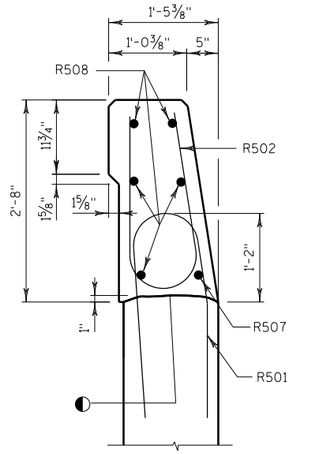


INSIDE ELEVATION



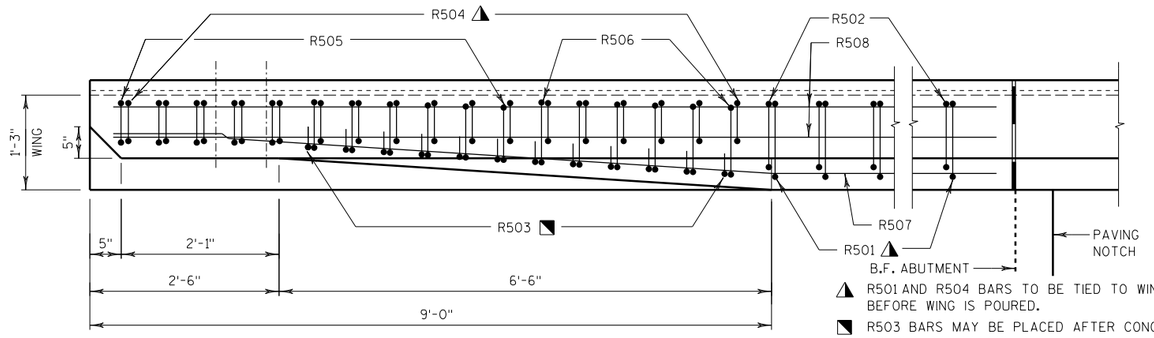
SECTION A

SECTION B



◐ CONST. JOINT - STRIKE OFF AS SHOWN.

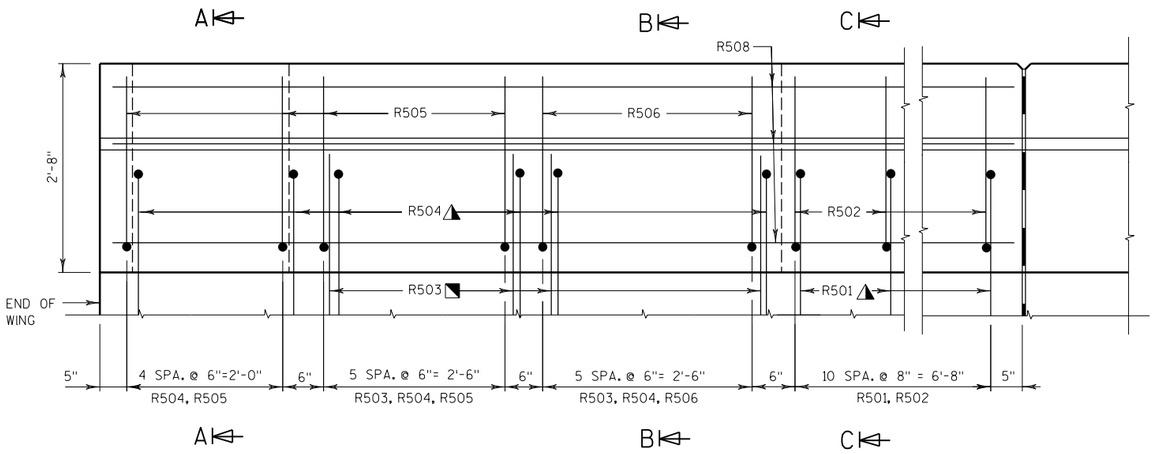
SECTION C



◭ R501 AND R504 BARS TO BE TIED TO WING STEEL BEFORE WING IS POURED.

◥ R503 BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. USE CARE TO PLACE R503 BARS CORRECTLY ALONG TRANSITION OF PARAPET.

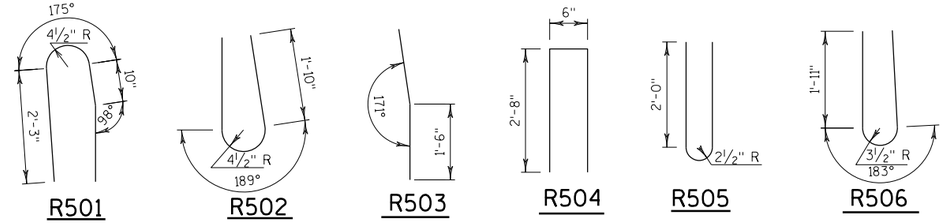
PLAN

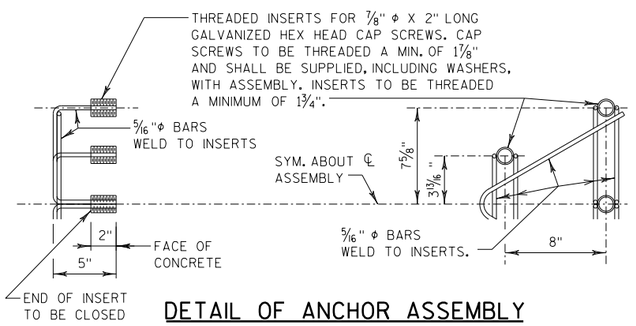


OUTSIDE ELEVATION

BILL OF BARS

BAR MARK	COAT	NO. S. ABUT.	NO. N. ABUT.	LENGTH	BENT	LOCATION
R501	X	22	22	5'-10"	X	PARAPET - VERT.
R502	X	22	22	5'-0"	X	PARAPET - VERT.
R503	X	24	24	3'-0"	X	PARAPET - VERT.
R504	X	34	34	5'-7"	X	PARAPET - VERT.
R505	X	22	22	4'-9"	X	PARAPET - VERT.
R506	X	12	12	4'-10"	X	PARAPET - VERT.
R507	X	2	2	15'-6"	X	PARAPET - HORIZ.
R508	X	10	10	15'-6"		PARAPET - HORIZ.

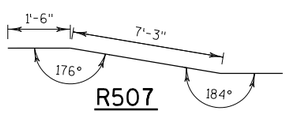




DETAIL OF ANCHOR ASSEMBLY

NOTE: HEX HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

ASSEMBLY SHALL BE BID ITEM "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD", EACH.



R507

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-58-129

DRAWN BY AJC | PLANS CK'D. MDR

SINGLE SLOPE PARAPET 32SS

SHEET 18 OF 19

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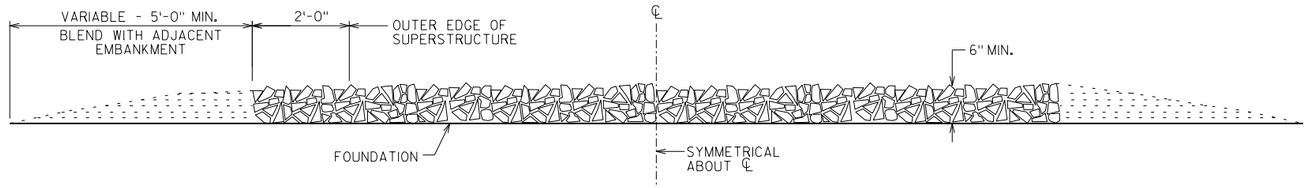
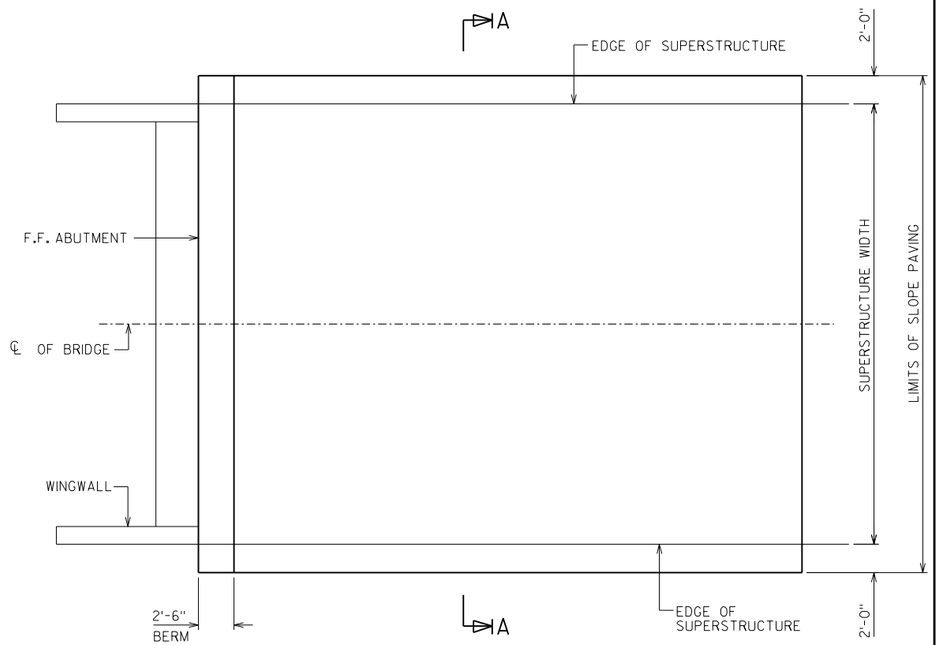
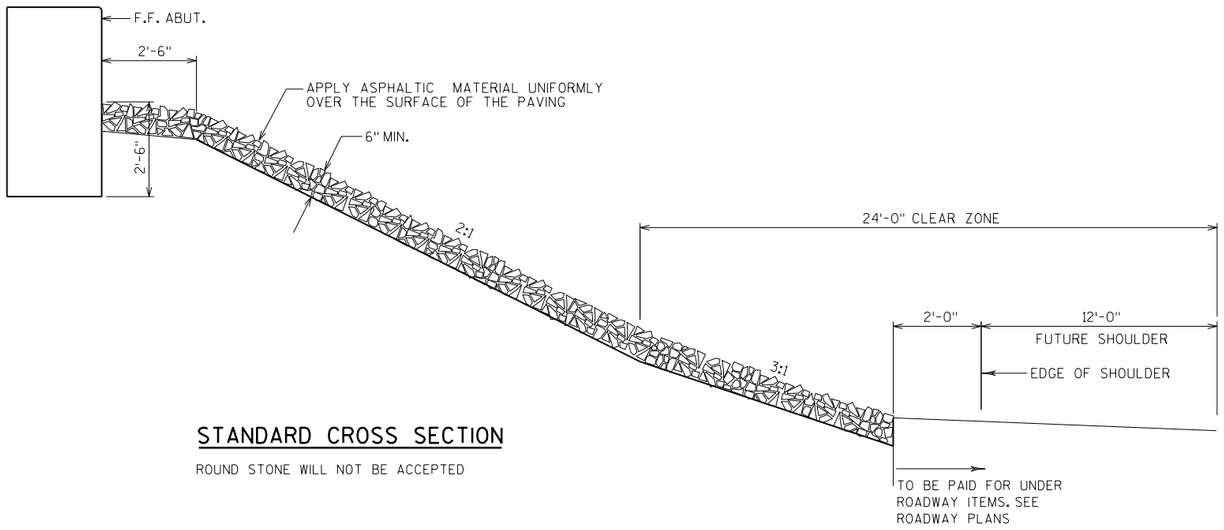
STATE PROJECT NUMBER
1058-25-70



SECTION A-A



PLAN



STANDARD CROSS SECTION

ROUND STONE WILL NOT BE ACCEPTED

GENERAL NOTES

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

WOOD FORMS MAY BE LEFT IN PLACE WHEN OF A QUALITY ACCEPTABLE TO THE ENGINEER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-58-129

DRAWN BY AJC | PLANS CK'D. MDR

SLOPE PAVING - CRUSHED AGGREGATE

SHEET 19 OF 19

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STATE PROJECT NUMBER

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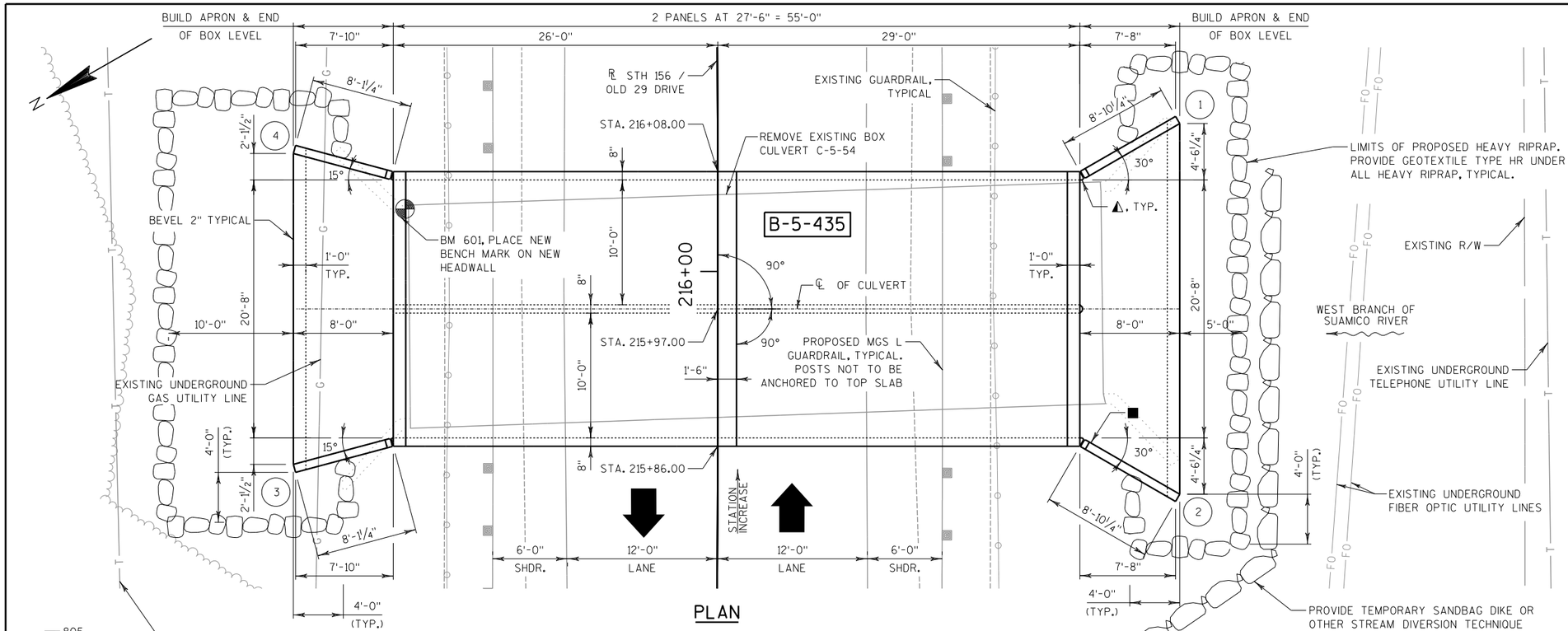
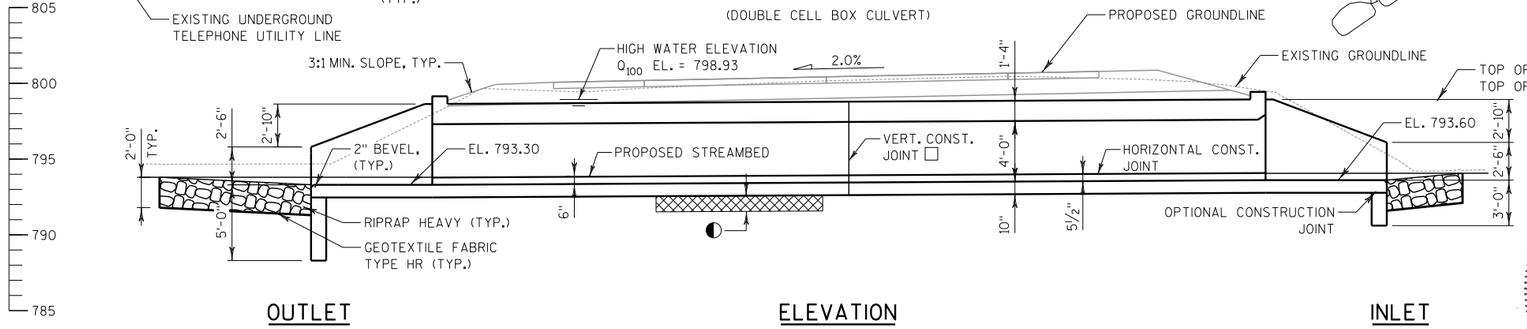


PLAN

(DOUBLE CELL BOX CULVERT)



OUTLET ELEVATION INLET

DESIGN DATA

LIVE LOAD: HL-93
INVENTORY RATING FACTOR: RF = 1.05
OPERATING RATING FACTOR: RF = 1.35
WISCONSIN STANDARD PERMIT VEHICLE (Wis-SPV) = 255 KIPS
EARTH LOAD: DESIGNED FOR FILL
HEIGHT RANGE OF 1.0 TO 3.0 FEET.

MATERIAL PROPERTIES:

CONCRETE MASONRY _____ f'c = 3.5 K.S.I.
BAR STEEL REINFORCEMENT _____ fy = 60 K.S.I.

HYDRAULIC DATA

Q(100) = 440 C.F.S.
VELOCITY - THROUGH STRUCTURE = 6.3 F.P.S.
HIGH WATER ELEVATION, Q(100) = 798.93
WATERWAY AREA = 70 SQ. FT.
DRAINAGE AREA = 2.9 SQ. MI.
ROADWAY OVERTOPPING FREQUENCY = N/A
SCOUR CRITICAL CODE = 8
Q(2) = 105 C.F.S.
HIGH WATER EL, Q(2) = 796.65

TRAFFIC DATA

STH 156 / OLD 29 DRIVE:
ADT (2017) = 1,900
ADT (2037) = 2,500
RDS = 50 M.P.H.

LIST OF DRAWINGS

1. GENERAL PLAN & ELEVATION
2. BOX CULVERT DETAILS
3. BOX CULVERT DETAILS 2
4. APRON DETAILS
5. APRON DETAILS 2
6. SUBSURFACE EXPLORATION

STRUCTURE DESIGN CONTACTS

BRIDGE OFFICE: WILLIAM DREHER (608) 266-8489
CONSULTANT: MICHAEL D. RADTKE (414) 347-1607

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

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

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

THE EXISTING STRUCTURE C-5-54 IS A 16'X5'-10" THREE SIDED CONCRETE BOX CULVERT APPROXIMATELY 55 FEET IN LENGTH.

THE CONTRACTOR MAY FURNISH A PRECAST CONCRETE BOX CULVERT IN LIEU OF THE CAST-IN-PLACE BOX CULVERT WITH THE ACCEPTANCE OF THE SHOP DRAWINGS BY THE STRUCTURES DESIGN SECTION. THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO THE PRECAST DETAILS IN CHAPTER 36 OF THE CURRENT WISCONSIN DOT BRIDGE MANUAL. PAYMENT FOR THE PRECAST CULVERT SHALL BE BASED ON QUANTITIES AND PRICES BID FOR THE ITEMS LISTED IN THE "TOTAL ESTIMATED QUANTITIES". IF A PRECAST CONCRETE BOX CULVERT OPTION IS PERSUED, CONTRACTOR SHALL MAKE SURE STRUCTURE WIDTH DOES NOT EXCEED WIDTH REQUIRED BY THE MGS L GUARDRAIL STANDARD DETAIL.

SEE ROADWAY PLANS FOR TEMPORARY DIVERSION CHANNEL DETAILS. WORK TO BE PAID FOR UNDER ROADWAY BID ITEMS EXCEPT EXCAVATION FOR TEMPORARY BYPASS CHANNEL WILL BE INCLUDED IN BID ITEM, "EXCAVATION FOR STRUCTURES CULVERTS B-5-435".

LEGEND

(X) INDICATES WING NUMBER

◭ FOR CORNER DETAILS, SEE "APRON DETAILS" SHEETS

■ FOR NAME PLATE LOCATION, SEE "BOX CULVERT DETAIL" SHEET

◐ UNDERCUT 1'-0" (INCLUDED IN EXCAVATION FOR STRUCTURES), PLACE GEOTEXTILE FABRIC TYPE 'C', AND BACKFILL WITH 'BREAKER RUN'. EXTEND 3'-0" BEYOND THE FOOTPRINT OF THE CULVERT.

☐ PLACE AN 18" (MIN.) WIDE SHEET OF "RUBBERIZED MEMBRANE WATERPROOFING" ON TOP SLAB OVER ALL CONSTRUCTION JOINTS AND EXTEND DOWN TO BOTTOM OF OUTSIDE WALLS.

◐ BENCH MARK

NO.	STATION	DESCRIPTION	EL.
601	216+05 (LT)	CHISELED SQUARE ON HEADWALL	799.27

WISCONSIN
MICHAEL D. RADTKE 40967 Elm Grove WI
PROFESSIONAL ENGINEER
SEPT 1, 2016

NO.	DATE	REVISION	BY

emcs inc
1300 W. Canal Street, Suite 200
Milwaukee, WI 53233
414.347.1607 Fax 414.347.1347

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-5-435

STH 156 OVER WEST BRANCH SUAMICO RIVER

COUNTY	TOWN
BROWN	PITTSFIELD

DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
AJC	MDR	AJC	MDR

GENERAL PLAN & ELEVATION

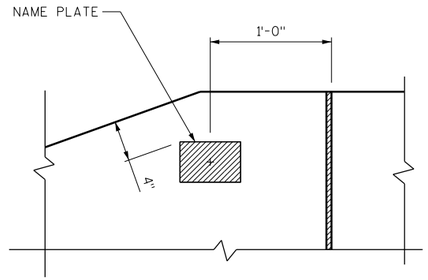
SHEET 1 OF 6

STATE PROJECT NUMBER

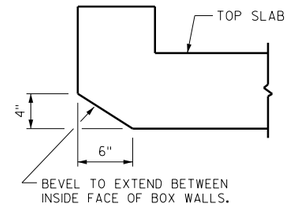
1058-25-70

TOTAL ESTIMATED QUANTITIES

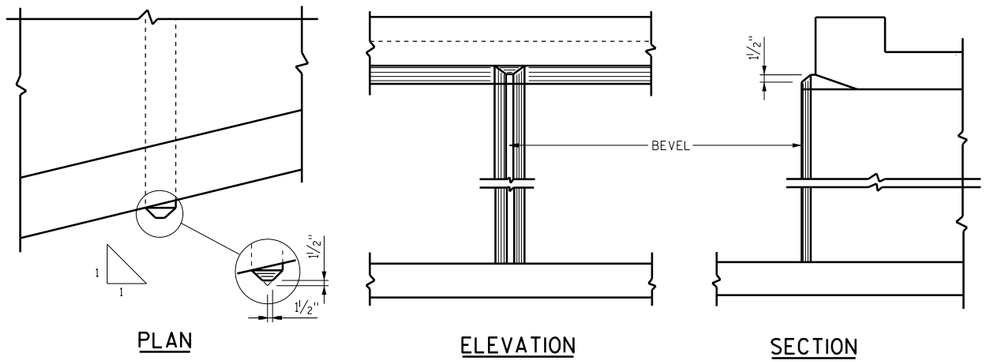
BID ITEM NO.	BID ITEMS	UNIT	INLET	BARREL	OUTLET	TOTAL
203.0600.S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STA. 215+97.00	LS	-	-	-	1
206.2000	EXCAVATION FOR STRUCTURES CULVERTS B-05-0435	LS	-	-	-	1
210.2500	BACKFILL STRUCTURE TYPE B	TON	20	155	20	195
311.0110	BREAKER RUN	TON	19	115	17	151
504.0100	CONCRETE MASONRY CULVERTS	CY	11	115	12	138
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	440	15720	470	16630
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	430	-	390	820
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	5	6	5	16
606.0300	RIPRAP HEAVY	CY	20	-	30	50
645.0105	GEOTEXTILE TYPE C	SY	-	223	-	223
645.0120	GEOTEXTILE TYPE HR	SY	26	-	43	69
	NON-BID ITEMS					
	FILLER	SIZE	3/4"	-	-	



NAME PLATE LOCATION
WING 2

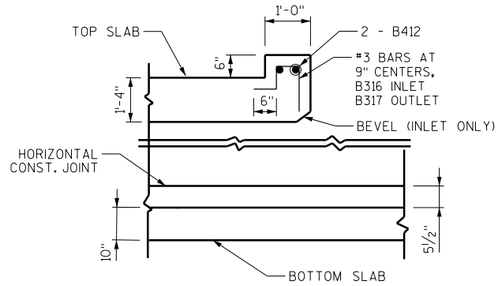


SECTION THRU INLET HEADER

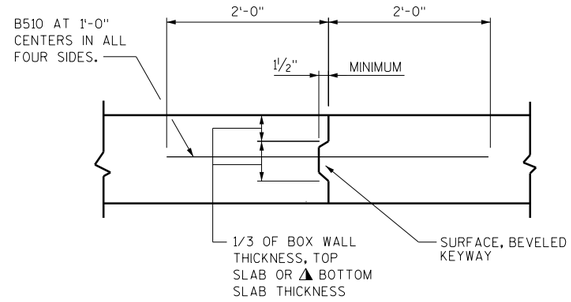


PLAN ELEVATION SECTION

INLET NOSE CENTERWALL DETAILS

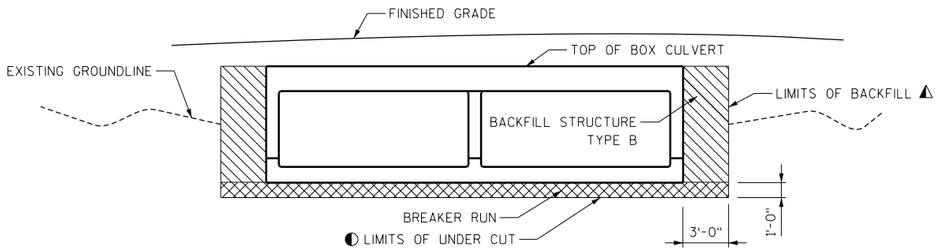


TYPICAL SECTION THRU
CULVERT HEADERS



CONSTRUCTION JOINT

⚠ IN LIEU OF CONSTRUCTION JOINTS IN THE BOTTOM SLAB, THE CONTRACTOR MAY USE 2" DEEP SAW CUTS WITHIN 12 HOURS AFTER POURING.



TYPICAL SECTION THRU BOX CULVERT

NOTES

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS B-5-435" SHALL BE THE EXISTING GROUND LINE.

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

BACKFILL WITH "BACKFILL STRUCTURE TYPE B" ALL VOLUME WHICH CANNOT BE PLACED BEFORE CULVERT CONSTRUCTION AND WILL NOT OCCUPIED BY THE NEW STRUCTURE. BACKFILL WITHIN THE LENGTH OF THE BOX INCLUDING THE APRON WING WALLS

◐ UNDER CUT 1'-0". INCLUDE THE EXCAVATION FOR UNDER CUT IN "EXCAVATION FOR STRUCTURES CULVERTS B-5-435". PLACE "GEOTEXTILE TYPE C" AND BACKFILL WITH "BREAKER RUN".

PLACE ALL PRECAST BOX SECTIONS ON A BEDDING OF "STRUCTURE BACKFILL TYPE B" OF 6" MINIMUM DEPTH.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-5-435

DRAWN BY PLR | PLANS CK'D. MDR

BOX CULVERT DETAILS

SHEET 2 OF 6

8

8

STATE PROJECT NUMBER

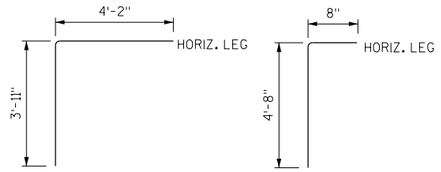
1058-25-70

BILL OF BARS FOR BARREL

BAR MARK	NO.	LENGTH	BENT	LOCATION
B501	110	21'-8"		TOP SLAB TRANS. I.F.
B602	56	21'-8"		BOTTOM SLAB TRANS. I.F.
B503	440	7'-11"	X	CORNER BARS
B404	112	5'-4"	X	INTERIOR WALL VERT.
B505	56	15'-8"		TOP SLAB TRANS. E.F.
B506	54	8'-0"		TOP SLAB TRANS. E.F.
B607	56	15'-8"		BOTTOM SLAB TRANS. E.F.
B608	54	8'-0"		BOTTOM SLAB TRANS. E.F.
B409	112	2'-9"		INTERIOR WALL DOWEL
B510	56	4'-0"		CONST. JT. DOWEL
B411	88	27'-2"		TOP & BOT. SLAB LONG. I.F. INT. PANEL
B412	4	21'-8"		HEADERS HORIZ.
B413	36	27'-2"		TOP & BOT. SLAB LONG. E.F. INT. PANEL
B414	112	2'-9"		EXTERIOR WALL DOWEL
B415	36	27'-2"		EXTERIOR AND INTERIOR WALL LONG.
B316	29	3'-1"	X	INLET HEADER TIES
B317	29	3'-5"	X	OUTLET HEADER TIES
B418	112	4'-8"		EXTERIOR WALL VERT. I.F.

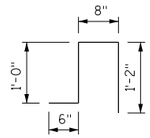
ALL REINFORCEMENT BARS IN BARREL WILL BE UNCOATED.

FOR BAR SERIES SEE BAR SERIES TABLE FOR ACTUAL LENGTHS. LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD BE USED FOR BAR WEIGHT CALCULATIONS.

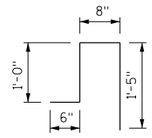


B503

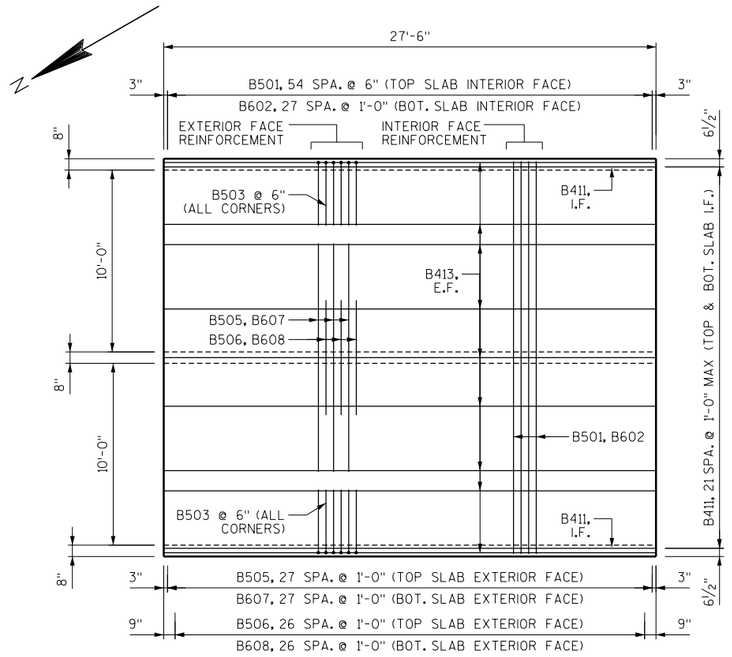
B404



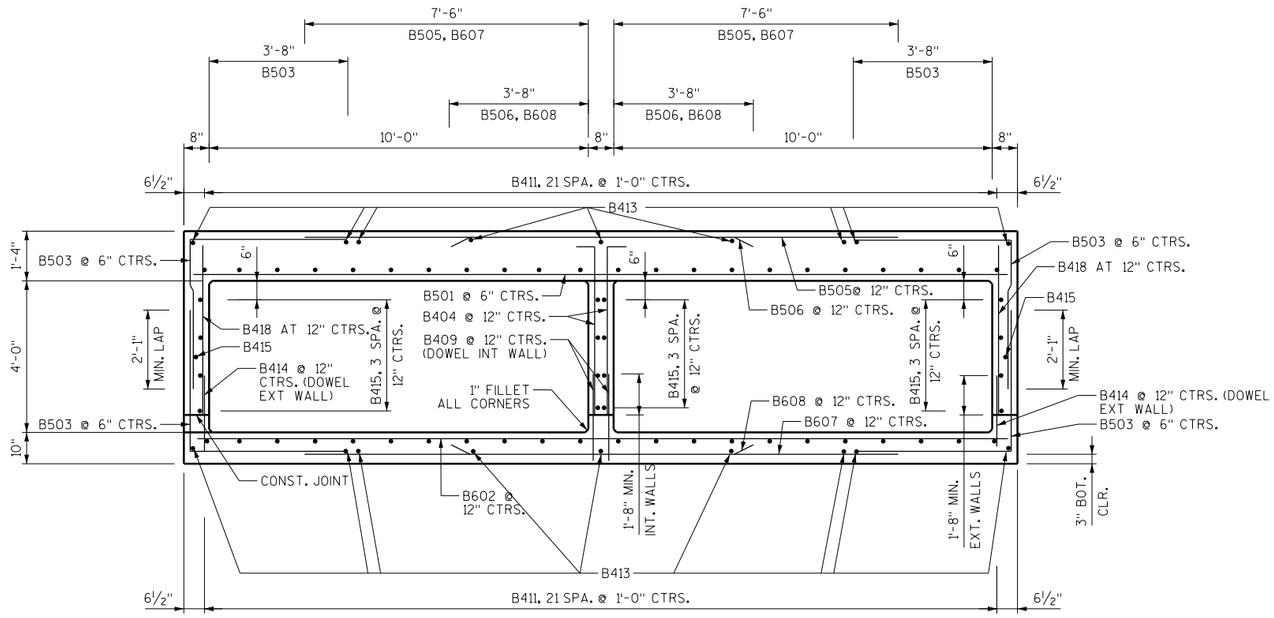
B316



B317



PLAN VIEW OF TYPICAL INTERIOR PANEL



SECTION THRU BOX

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-5-435

DRAWN BY PLR | PLANS CK'D. MDR

BOX CULVERT DETAILS 2

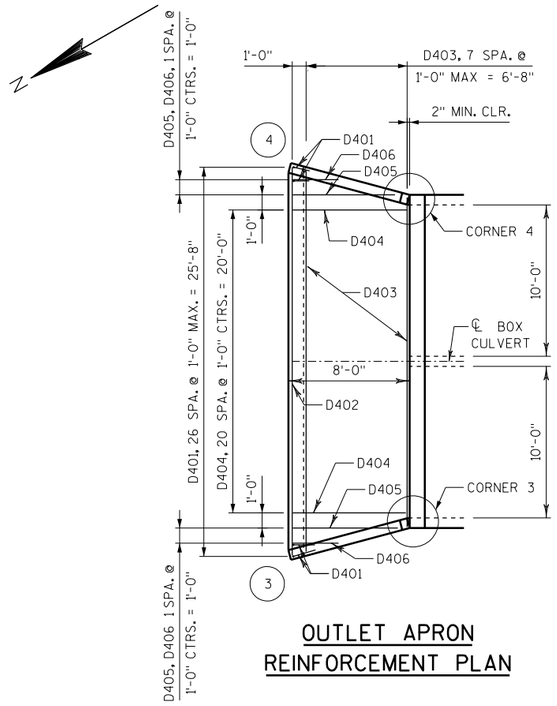
SHEET 3 OF 6

8

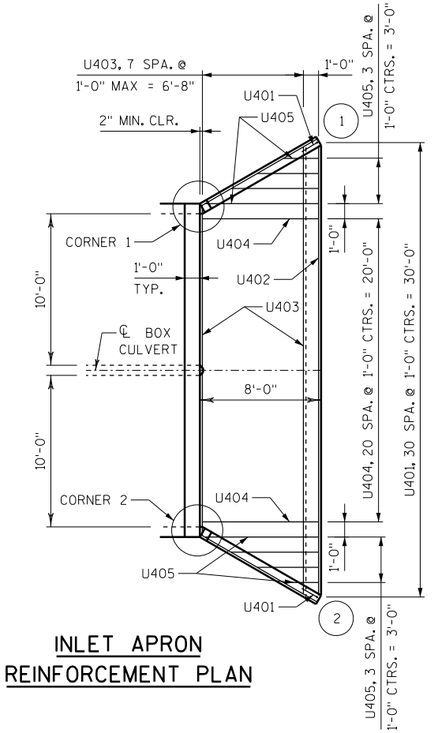
8

STATE PROJECT NUMBER

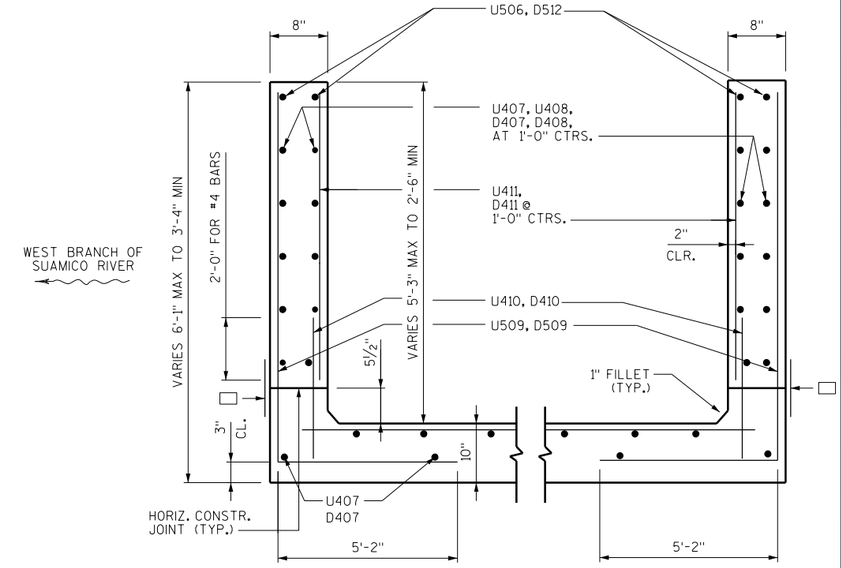
1058-25-70



OUTLET APRON REINFORCEMENT PLAN

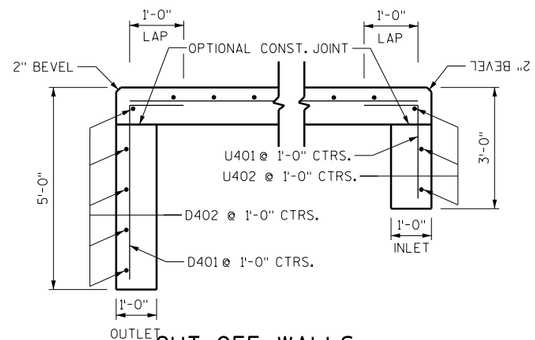


INLET APRON REINFORCEMENT PLAN



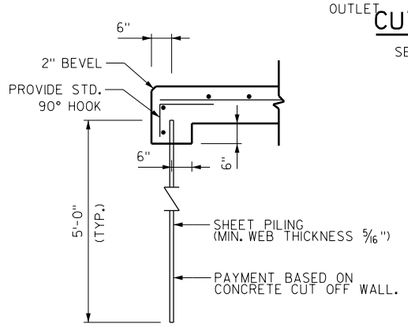
SECTION THRU WINGWALLS

☐ 18" MIN. WIDTH RUBBERIZED MEMBRANE WATERPROOFING ALONG HORIZ. CONSTR. JT. IN WING. (TYP.)



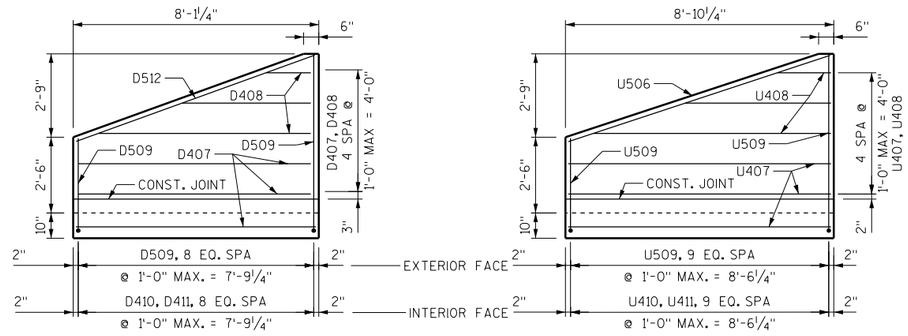
CUT-OFF WALLS

SECTION THRU WALLS



ALTERNATE CUT-OFF WALL

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

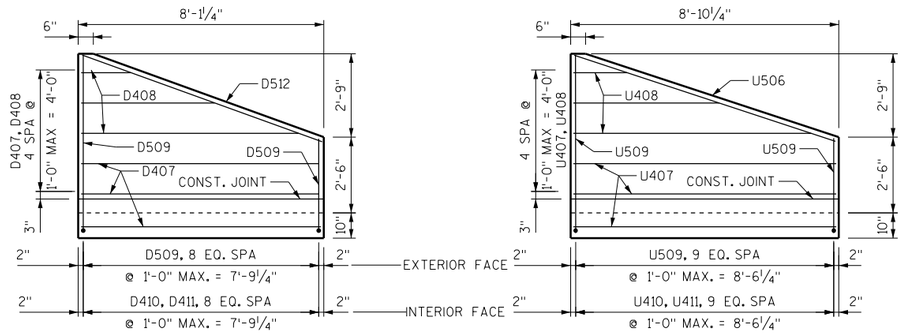


WING 3

EXTERIOR FACE

WING 1

EXTERIOR FACE



WING 4

EXTERIOR FACE

WING 2

EXTERIOR FACE

NOTE:
ALL WING ELEVATION VIEWS SHOW EXTERIOR FACE REINFORCING ONLY. INTERIOR FACE REINFORCING NOT SHOWN FOR CLAIRTY.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-5-435

DRAWN BY PLR | PLANS CK'D. MDR

APRON DETAILS

SHEET 4 OF 6

8

8

STATE PROJECT NUMBER

1058-25-70

BILL OF BARS FOR INTLET APRON

BAR	NO.	LENGTH	COAT	BENT	SERIES	LOCATION
U401	31	3'-6"		X		INLET CUTOFF WALL VERT.
U402	3	29'-9"				INLET CUTOFF WALL HORIZ.
U403	8	25'-8"			X	INLET APRON TRANSVERSE
U404	21	10'-1"				INLET APRON LONG.
U405	8	4'-11"			X	INLET APRON LONG.
U506	4	8'-8"	X			INLET WINGWALL TOP DIAG. WING 1 & 2
U407	12	8'-6"	X			INLET WINGWALL LONG. WING 1 & 2
U408	12	4'-10"	X		X	INLET WINGWALL LONG. WING 1 & 2
U509	20	9'-4"	X	X	X	INLET WINGWALL CONER BAR WING 1 & 2
U410	20	3'-1"	X			INLET WINGWALL I.F. DOWEL WING 1 & 2
U411	20	3'-2"	X		X	INLET WINGWALL VERT. I.F. WING 1 & 2

FOR BAR SERIES SEE BAR SERIES TABLE FOR ACTUAL LENGTHS. LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD BE USED FOR BAR WEIGHT CALCULATIONS.

BAR SERIES TABLE

BAR	NO. REQ'D.	LENGTHS FOR EACH SERIES
U403	1 SERIES OF 8	21'-9" TO 29'-6"
U405	2 SERIES OF 4	2'-3" TO 7'-7"
U408	4 SERIES OF 3	1'-10" TO 7'-10"
U509	2 SERIES OF 10	7'-11" TO 10'-8"
U411	2 SERIES OF 10	1'-9" TO 4'-7"

BUNDLE AND TAG EACH SERIES SEPERATELY

BILL OF BARS FOR OUTLET APRON

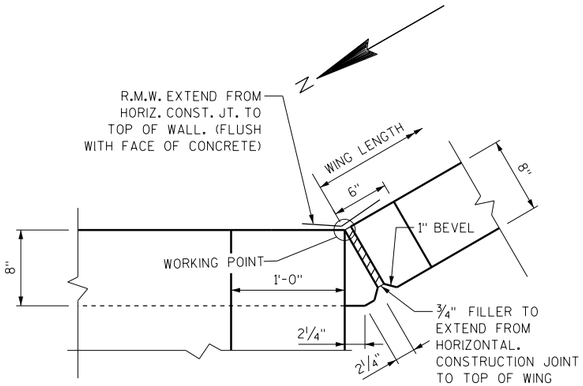
BAR	NO.	LENGTH	COAT	BENT	SERIES	LOCATION
D401	27	5'-6"		X		OUTLET CUTOFF WALL VERT.
D402	5	25'-6"				OUTLET CUTOFF WALL HORIZ.
D403	8	23'-4"			X	OUTLET APRON TRANSVERSE
D404	21	10'-1"				OUTLET APRON LONG.
D405	2	6'-11"				OUTLET APRON LONG.
D406	2	3'-0"				OUTLET APRON LONG.
D407	12	7'-9"	X			OUTLET WINGWALL LONG. WING 3 & 4
D408	12	4'-6"	X		X	OUTLET WINGWALL LONG. WING 3 & 4
D509	18	9'-4"	X	X	X	OUTLET WINGWALL CONER BAR WING 3 & 4
D410	18	3'-1"	X			OUTLET WINGWALL I.F. DOWEL WING 3 & 4
D411	18	3'-2"	X		X	OUTLET WINGWALL VERT. I.F. WING 3 & 4
D512	4	8'-2"	X			INLET WINGWALL TOP DIAG. WING 3 & 4

FOR BAR SERIES SEE BAR SERIES TABLE FOR ACTUAL LENGTHS. LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD BE USED FOR BAR WEIGHT CALCULATIONS.

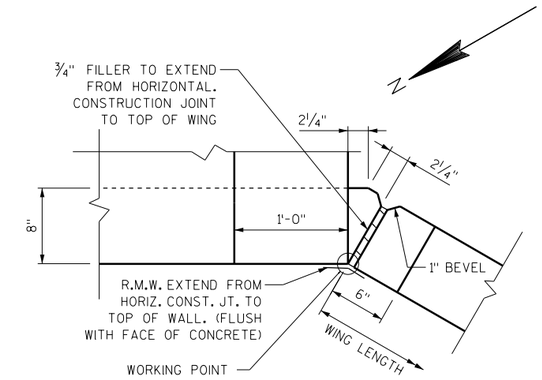
BAR SERIES TABLE

BAR	NO. REQ'D.	LENGTHS FOR EACH SERIES
D403	1 SERIES OF 8	21'-8" TO 25'-0"
D408	4 SERIES OF 3	1'-9" TO 7'-3"
D509	2 SERIES OF 9	7'-11" TO 10'-8"
D411	2 SERIES OF 9	1'-9" TO 4'-7"

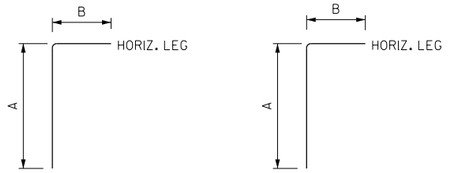
BUNDLE AND TAG EACH SERIES SEPERATELY



CORNER 1



CORNER 2

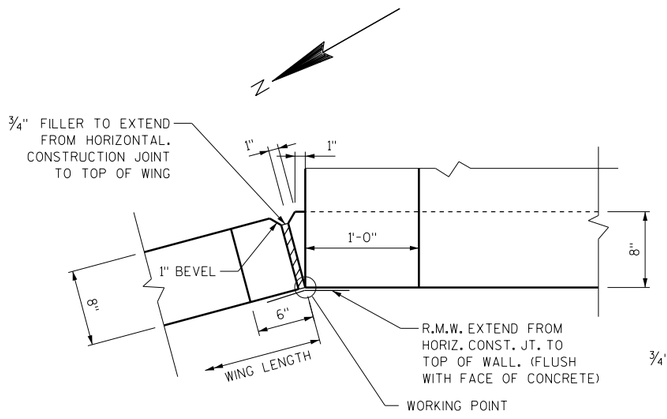


U401, U509

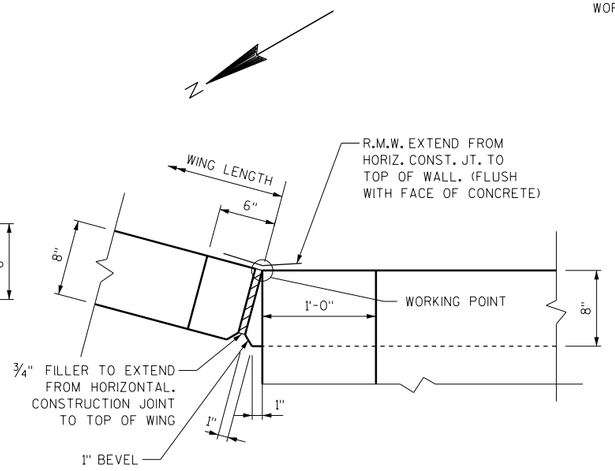
BAR MARK	A	B
U401	2'-7"	1'-0"
U509	4'-8"	3'-8"

D401, D509

BAR MARK	A	B
D401	4'-7"	1'-0"
D509	4'-8"	3'-8"



CORNER 3



CORNER 4

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-5-435

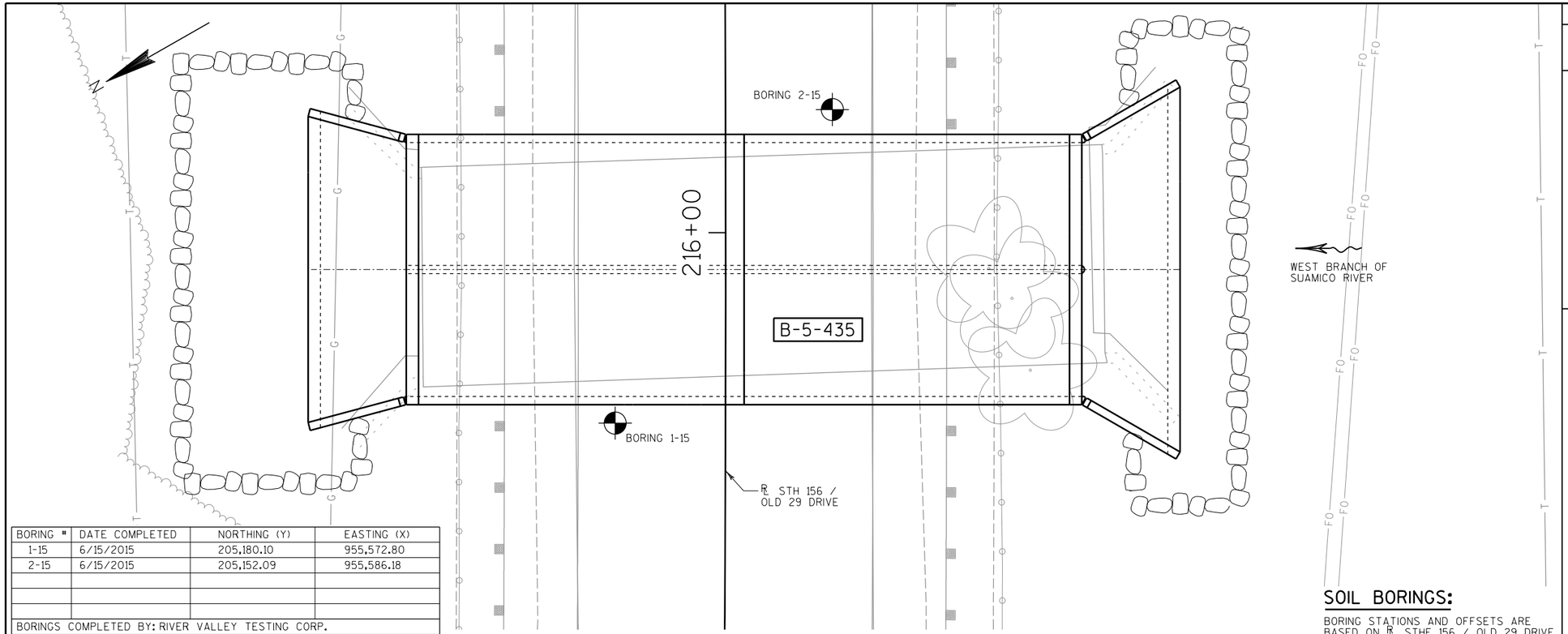
DRAWN BY PLR | PLANS CK'D. MDR

APRON DETAILS 2

SHEET 5 OF 6

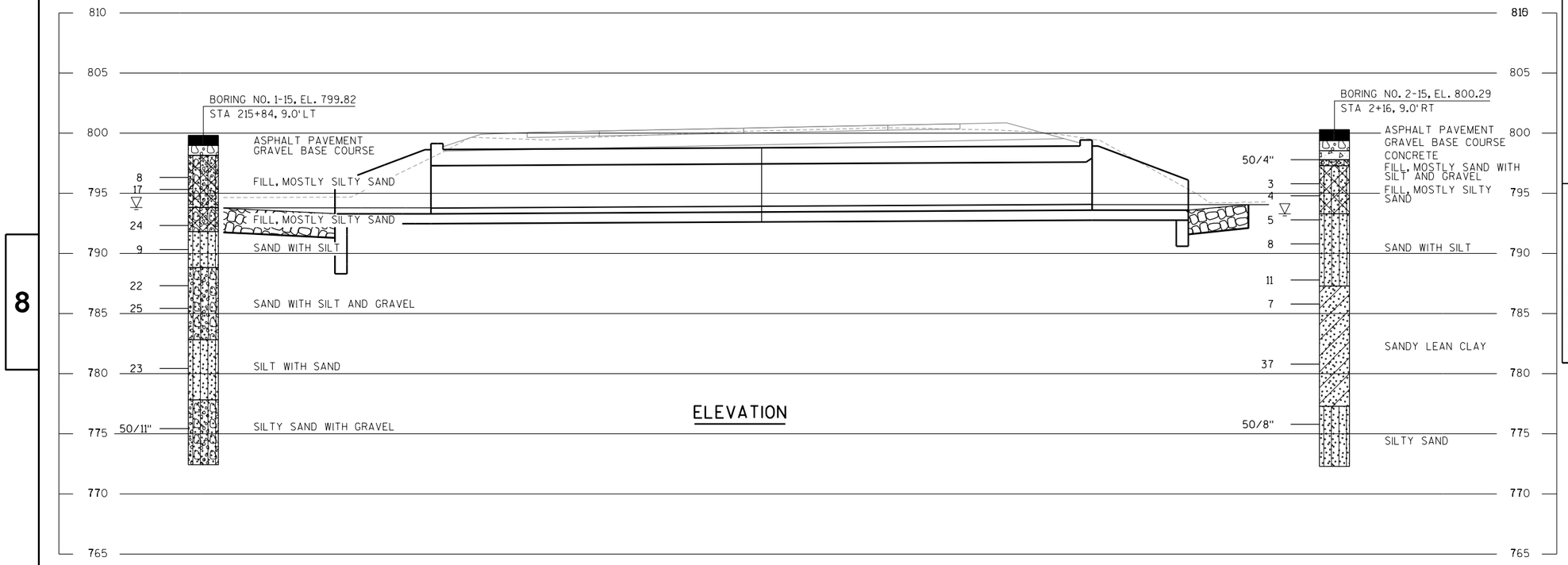
8

8



PLAN

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
1-15	6/15/2015	205,180.10	955,572.80
2-15	6/15/2015	205,152.09	955,586.18
BORINGS COMPLETED BY: RIVER VALLEY TESTING CORP.			
REPORT COMPLETED BY: RIVER VALLEY TESTING CORP.			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) SHAWANO COUNTY			



ELEVATION

SOIL BORINGS:

BORING STATIONS AND OFFSETS ARE BASED ON ℄ STHE 156 / OLD 29 DRIVE.

DENOTES SOIL BORING LOCATION

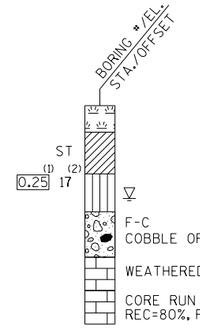
STATE PROJECT NUMBER

1058-25-70

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- AT TIME OF DRILLING
- END OF DRILLING
- AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-5-435

DRAWN BY	TEO	PLANS CK'D.	AJC

SUBSURFACE EXPLORATION

SHEET 6 OF 6

8

8

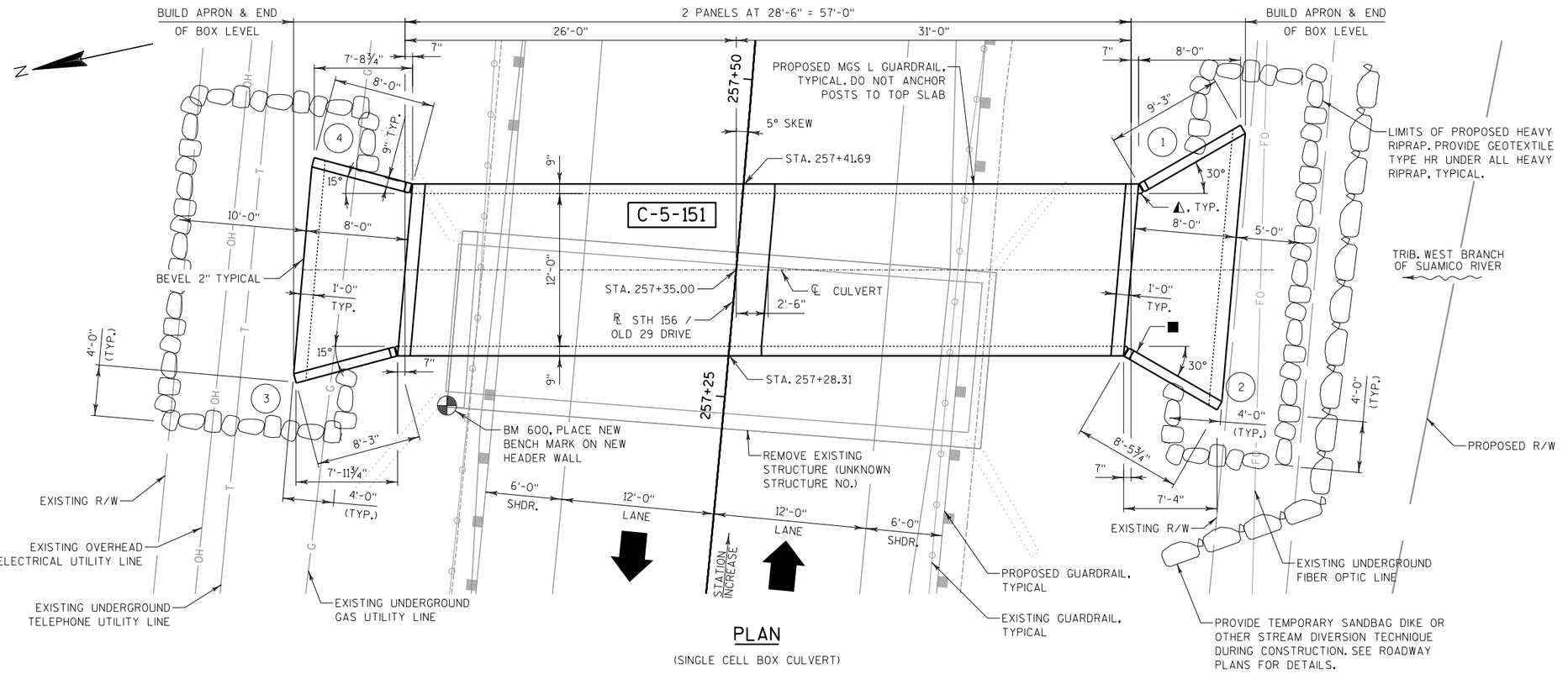
FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\09 STRUCTURES\B-5-435 - STH 156 over Suamico Trib\Plan\080106_se.dgn

PLOT DATE : 8/16/2016

PLOT BY : mdr

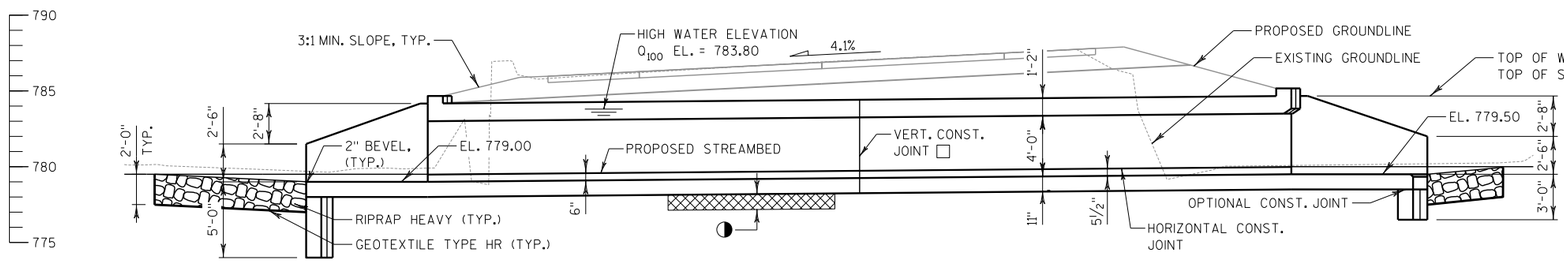
STATE PROJECT NUMBER

1058-25-70



PLAN

(SINGLE CELL BOX CULVERT)



OUTLET ELEVATION INLET

DESIGN DATA

LIVE LOAD: HL-93
INVENTORY RATING FACTOR: RF = 1.05
OPERATING RATING FACTOR: RF = 1.35
WISCONSIN STANARD PERMIT VEHICLE (Wis-SPV) = 255 KIPS
EARTH LOAD: DESIGNED FOR FILL HEIGHT RANGE OF 1.0 TO 4.0 FEET.

MATERIAL PROPERTIES:

CONCRETE MASONRY _____ f'c = 3.5 K.S.I.
BAR STEEL REINFORCEMENT _____ fy = 60 K.S.I.

HYDRAULIC DATA

Q(100) = 260 C.F.S.
VELOCITY - THROUGH STRUCTURE = 7.0 F.P.S.
HIGH WATER ELEVATION, Q(100) = 783.80
WATERWAY AREA = 42 SQ. FT.
DRAINAGE AREA = 1.5 SQ. MI.
ROADWAY OVERTOPPING FREQUENCY = N/A
SCOUR CRITICAL CODE = 5
Q(2) = 70 C.F.S.
HIGH WATER EL, Q(2) = 782.28

TRAFFIC DATA

STH 156 / OLD 29 DRIVE:
ADT (2017) = 1,900
ADT (2037) = 2,500
RDS = 50 M.P.H.

LIST OF DRAWINGS

1. GENERAL PLAN & ELEVATION
2. BOX CULVERT DETAILS
3. APRON DETAILS
4. APRON DETAILS 2
5. SUBSURFACE EXPLORATION

STRUCTURE DESIGN CONTACTS

BRIDGE OFFICE: WILLIAM DREHER (608) 266-8489
CONSULTANT: MICHAEL D. RADTKE (414) 347-1607

WISCONSIN MICHAEL D. RADTKE 40967 Elm Grove WI PROFESSIONAL ENGINEER

SEPT 1, 2016

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

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

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

THE EXISTING STRUCTURE (STRUCTURE NUMBER UNKNOWN) IS A 12'X5'-8" THREE SIDED CONCRETE BOX CULVERT APPROXIMATELY 42 FEET IN LENGTH.

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

SEE ROADWAY PLANS FOR TEMPORARY DIVERSION CHANNEL DETAILS. WORK TO BE PAID FOR UNDER ROADWAY BID ITEMS EXCEPT EXCAVATION FOR TEMPORARY BYPASS CHANNEL WILL BE INCLUDED IN BID ITEM, "EXCAVATION FOR STRUCTURES CULVERTS C-5-151".

LEGEND

(X) INDICATES WING NUMBER

△ FOR CORNER DETAILS, SEE "APRON DETAILS" SHEETS

■ FOR NAME PLATE LOCATION, SEE "BOX CULVERT DETAIL" SHEET

◐ UNDERCUT 1'-0" (INCLUDED IN EXCAVATION FOR STRUCTURES), PLACE GEOTEXTILE TYPE 'C', AND BACKFILL WITH 'BREAKER RUN'. EXTEND 3'-0" BEYOND THE FOOTPRINT OF THE CULVERT.

□ PLACE AN 18" (MIN.) WIDE SHEET OF "RUBBERIZED MEMBRANE WATERPROOFING" ON TOP SLAB OVER ALL CONSTRUCTION JOINTS AND EXTEND DOWN TO BOTTOM OF OUTSIDE WALLS.

BENCH MARK

NO.	STATION	DESCRIPTION	EL.
600	257+22 (LT)	CHISELED SQUARE IN HEADWALL	787.03

NO.	DATE	REVISION	BY

emcs inc
1300 W. Canal Street, Suite 200
Milwaukee, WI 53233
414.347.1607 Fax 414.347.1347

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE C-5-151

STH 156 OVER TRIB. BRANCH SUAMICO RIVER

COUNTY	TOWN
BROWN	PITTSFIELD

DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
MDR	AJC	PLR	AJC

GENERAL PLAN & ELEVATION

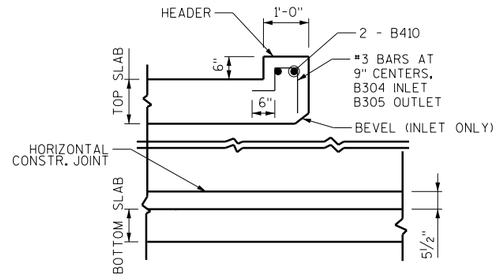
SHEET 1 OF 5

STATE PROJECT NUMBER

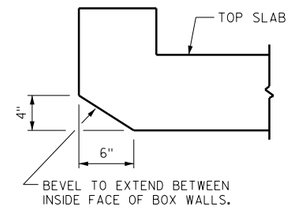
1058-25-70

TOTAL ESTIMATED QUANTITIES

BID ITEM NO.	BID ITEMS	UNIT	INLET	BARREL	OUTLET	TOTAL
203.0600.S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STA. 257+35.00	LS	-	-	-	1
206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-05-0151	LS	-	-	-	1
210.2500	BACKFILL STRUCTURE TYPE B	TON	23	366	21	410
311.0110	BREAKER RUN	TON	14	83	12	109
504.0100	CONCRETE MASONRY CULVERTS	CY	9	73	10	92
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	300	10080	290	10670
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	430	-	390	820
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	5	4	5	14
606.0300	RIPRAP HEAVY	CY	15	-	25	40
645.0105	GEOTEXTILE TYPE C	SY	-	159	-	159
645.0120	GEOTEXTILE TYPE HR	SY	23	-	33	56
	NON-BID ITEMS					
	FILLER	SIZE	3/4"			



TYPICAL SECTION THRU CULVERT HEADERS



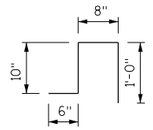
SECTION THRU INLET HEADER

BILL OF BARS FOR BARREL

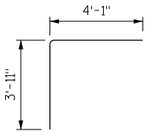
BAR MARK	NO.	LENGTH	BENT	LOCATION
B601	114	13'-3"		TOP SLAB TRANS. I.F.
B402	20	28'-2"		WALL LONG.
B503	114	13'-3"		BOTTOM SLAB TRANS. I.F.
B304	18	2'-10"	X	INLET HEADERS TIES
B305	18	3'-1"	X	OUTLET HEADERS TIES
B406	72	28'-2"		TOP & BOT SLAB LONG. EF
B507	456	7'-10"	X	CORNER BARS
B408	116	4'-2"		WALL VERT. I.F.
B409	116	3'-0"		WALL DOWEL VERT . I.F.
B410	4	13'-2"		HEADERS LONGITUDINAL
B511	36	4'-0"		CONST. JT. DOWEL

FOR BAR SERIES SEE BAR SERIES TABLE FOR ACTUAL LENGTHS. LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD BE USED FOR BAR WEIGHT CALCULATIONS.

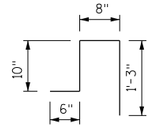
ALL BARS IN BARREL ARE UNCOATED



B304



B507



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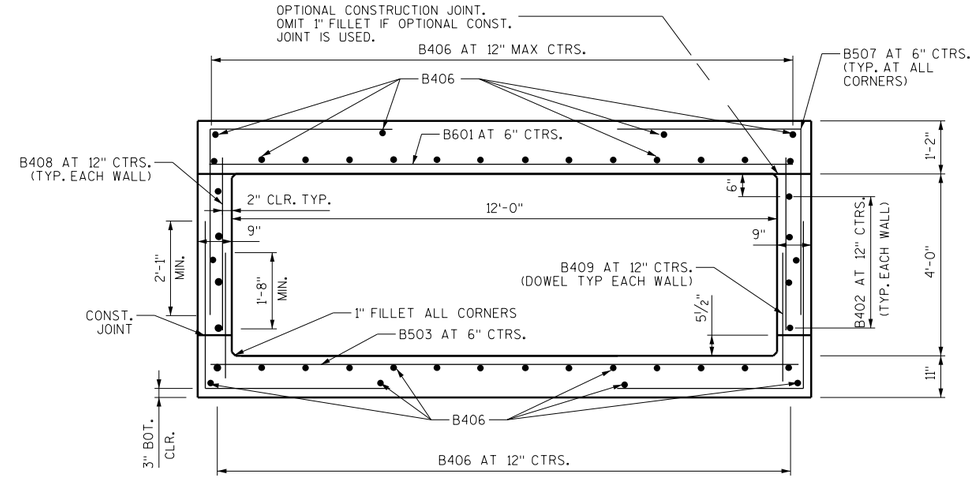
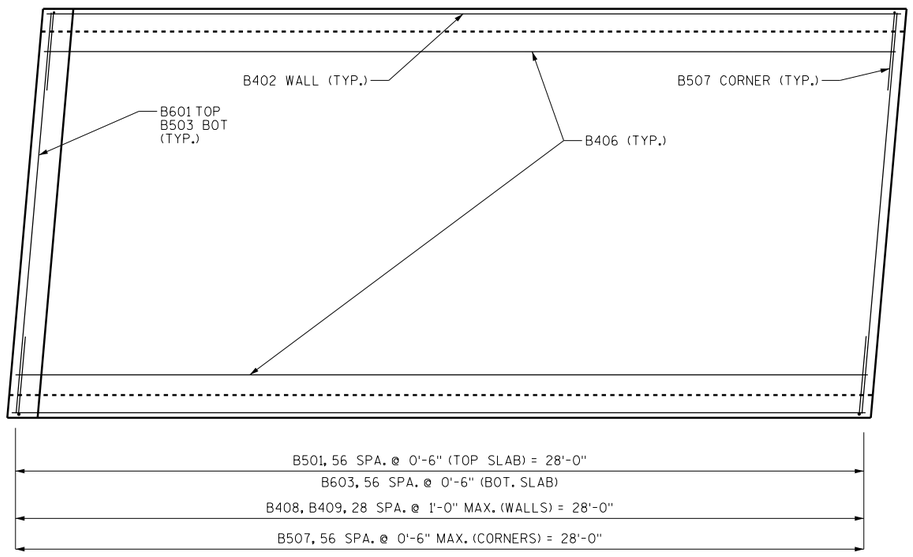
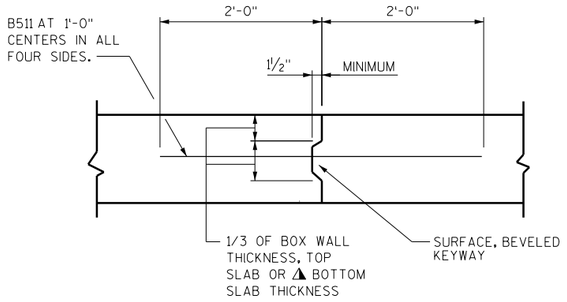


SECTION THRU BOX



PLAN VIEW OF TYPICAL PANEL



CONSTRUCTION JOINT

⚠ IN LIEU OF CONSTRUCTION JOINTS IN THE BOTTOM SLAB, THE CONTRACTOR MAY USE 2" DEEP SAW CUTS WITHIN 12 HOURS AFTER POURING.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-5-151

DRAWN BY PLR | PLANS CK'D. AJC

BOX CULVERT DETAILS

SHEET 2 OF 5

8

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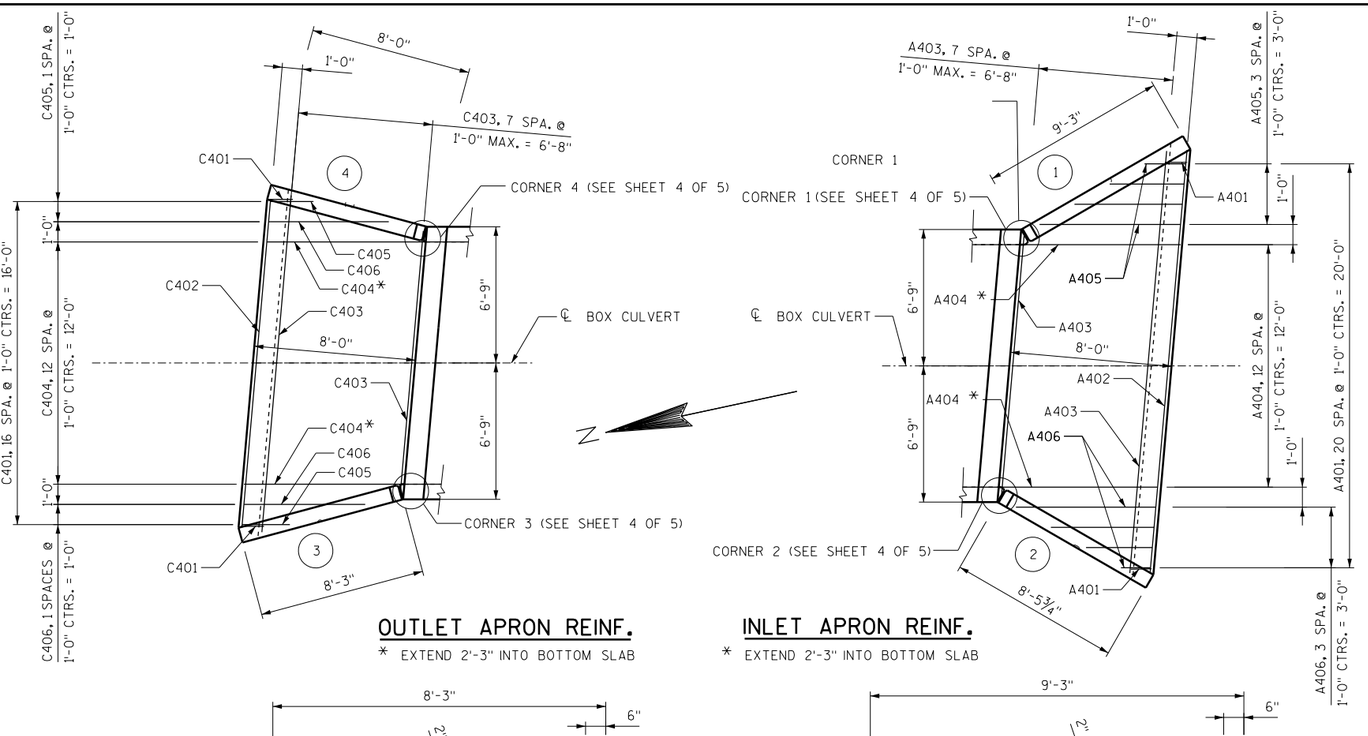
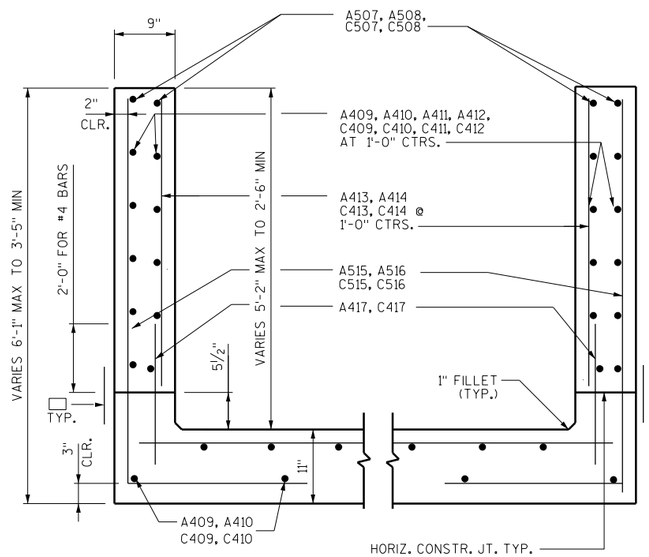
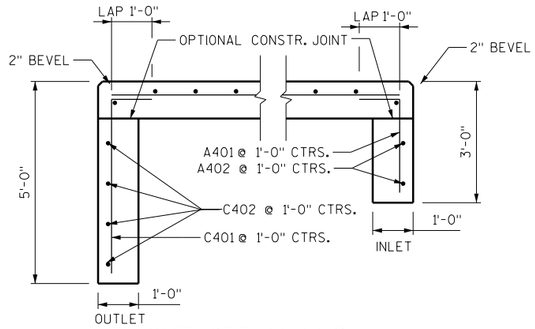




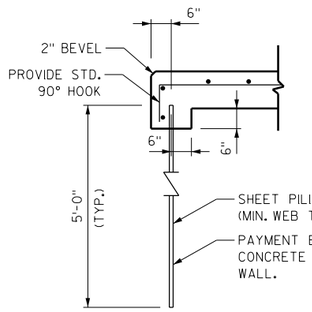
SECTION THRU WINGWALLS

☐ 18" MIN. WIDTH RUBBERIZED MEMBRANE WATERPROOFING ALONG HORIZ. CONSTR. JT. IN WING. (TYP.)



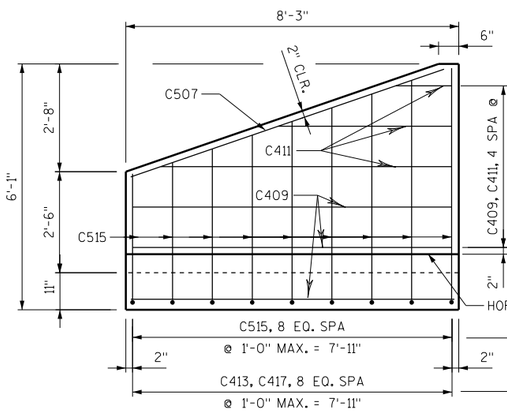
CUT-OFF WALLS

SECTION THRU WALLS



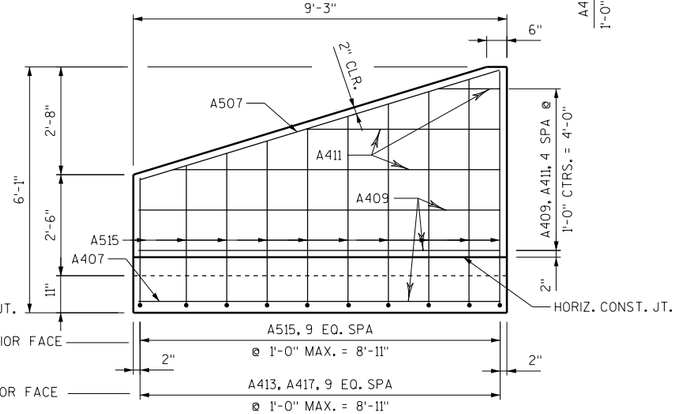
ALTERNATE CUT-OFF WALL

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



WING 3

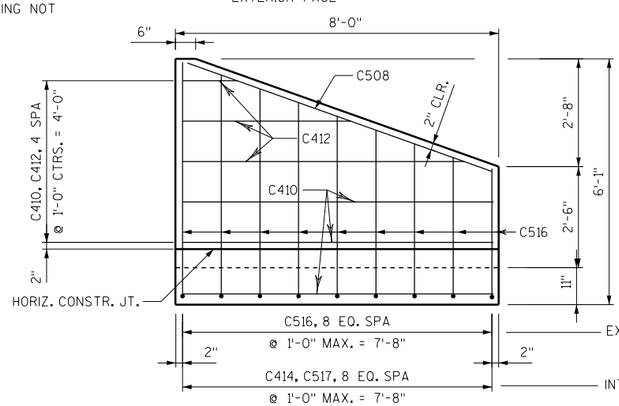
EXTERIOR FACE



WING 1

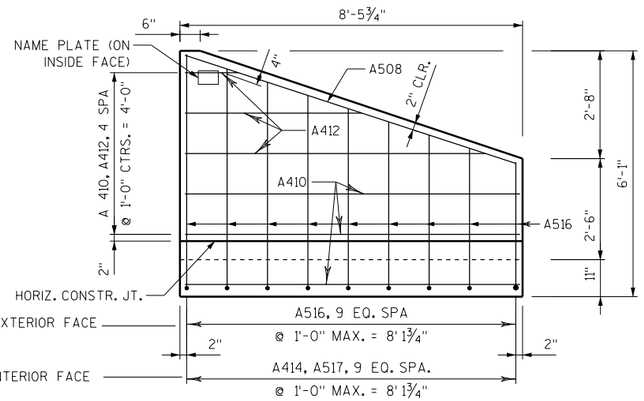
EXTERIOR FACE

NOTE:
ALL WING ELEVATION VIEWS SHOW EXTERIOR FACE REINFORCING ONLY. INTERIOR FACE REINFORCING NOT SHOWN FOR CLAIRTY.



WING 4

EXTERIOR FACE



WING 2

EXTERIOR FACE

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-5-151

DRAWN BY PLR | PLANS CK'D. AJC

APRON DETAILS

SHEET 3 OF 5

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STATE PROJECT NUMBER

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BILL OF BARS FOR INLET APRON

BAR MARK	NO. REQ'D	LENGTH	COAT	BENT	BAR SERIES	LOCATION
A401	21	3'-6"		X		INLET CUTOFF WALL VERT.
A402	3	21'-0"				INLET CUTOFF WALL HORIZ.
A403	8	17'-0"			X	INLET APRON TRANSVERSE
A404	13	10'-2"				INLET APRON LONG.
A405	4	4'-5"			X	INLET APRON LONG. AT WING 1
A406	4	4'-2"			X	INLET APRON LONG. AT WING 2
A507	2	9'-3"	X			INLET WINGWALL 1 TOP DIAG.
A508	2	8'-6"	X			INLET WINGWALL 2 TOP DIAG.
A409	6	8'-11"	X			INLET WINGWALL 1 HORIZ. BOTTOM
A410	6	8'-1"	X			INLET WINGWALL 2 HORIZ. BOTTOM
A411	6	4'-9"	X		X	INLET WINGWALL 1 HORIZ. TOP
A412	6	4'-4"	X		X	INLET WINGWALL 2 HORIZ. TOP
A413	10	3'-2"	X		X	INLET WINGWALL 1 VERT. I.F.
A414	10	3'-2"	X		X	INLET WINGWALL 2 VERT. I.F.
A515	10	9'-5"	X	X	X	INLET WINGWALL 1 CORNER BAR
A516	10	9'-5"	X	X	X	INLET WINGWALL 2 CORNER BAR
A417	20	3'-3"	X			INLET WINGWALL 1 & 2 I.F. DOWEL

FOR BAR SERIES SEE BAR SERIES TABLE FOR ACTUAL LENGTHS. LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD BE USED FOR BAR WEIGHT CALCULATIONS.

BAR SERIES TABLE

BAR MARK	NO. REQ'D.	LENGTHS FOR EACH SERIES
A403	1 SERIES OF 8	13'-2" TO 20'-10"
A405	1 SERIES OF 4	2'-0" TO 6'-10"
A406	1 SERIES OF 4	1'-5" TO 6'-11"
A411	2 SERIES OF 3	1'-6" TO 8'-0"
A412	2 SERIES OF 3	1'-3" TO 7'-5"
A413	1 SERIES OF 10	1'-10" TO 4'-6"
A414	1 SERIES OF 10	1'-10" TO 4'-6"
A515	1 SERIES OF 10	8'-1" TO 10'-9"
A516	1 SERIES OF 10	8'-1" TO 10'-9"

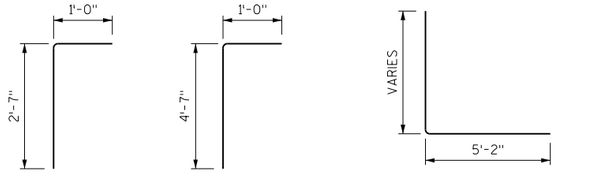
BILL OF BARS FOR OUTLET APRON

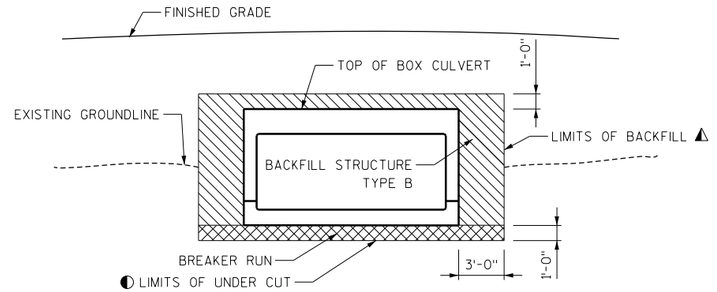
BAR MARK	NO. REQ'D	LENGTH	COAT	BENT	BAR SERIES	LOCATION
C401	17	5'-6"		X		OUTLET CUTOFF WALL VERT.
C402	5	16'-3"				OUTLET CUTOFF WALL HORIZ.
C403	8	14'-10"			X	OUTLET APRON TRANSVERSE
C404	13	10'-2"				OUTLET APRON LONG.
C405	2	2'-3"				OUTLET APRON LONG. AT CORNER
C406	2	6'-0"				OUTLET APRON LONG. AT CORNER
C507	2	8'-4"	X			OUTLET WINGWALL 3 TOP DIAG.
C508	2	8'-1"	X			OUTLET WINGWALL 4 TOP DIAG.
C409	6	7'-11"	X			OUTLET WINGWALL 3 HORIZ. BOTTOM
C410	6	7'-8"	X			OUTLET WINGWALL 4 HORIZ. BOTTOM
C411	6	4'-3"	X		X	OUTLET WINGWALL 3 HORIZ. TOP
C412	6	4'-2"	X		X	OUTLET WINGWALL 4 HORIZ. TOP
C413	9	3'-2"	X		X	OUTLET WINGWALL 3 VERT. I.F.
C414	9	3'-2"	X		X	OUTLET WINGWALL 4 VERT. I.F.
C515	9	9'-5"	X	X	X	OUTLET WINGWALL 3 CORNER BAR
C516	9	9'-5"	X	X	X	OUTLET WINGWALL 4 CORNER BAR
C417	18	3'-3"	X			OUTLET WINGWALL 3 & 4 I.F. DOWEL

FOR BAR SERIES SEE BAR SERIES TABLE FOR ACTUAL LENGTHS. LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD BE USED FOR BAR WEIGHT CALCULATIONS.

BAR SERIES TABLE

BAR MARK	NO. REQ'D.	LENGTHS FOR EACH SERIES
C403	1 SERIES OF 8	13'-1" TO 16'-7"
C411	2 SERIES OF 3	1'-4" TO 7'-2"
C412	2 SERIES OF 3	1'-4" TO 7'-0"
C413	1 SERIES OF 9	1'-10" TO 4'-6"
C414	1 SERIES OF 9	1'-10" TO 4'-6"
C515	1 SERIES OF 9	8'-1" TO 10'-9"
C516	1 SERIES OF 9	8'-1" TO 10'-9"





TYPICAL SECTION THRU BOX CULVERT

NOTES

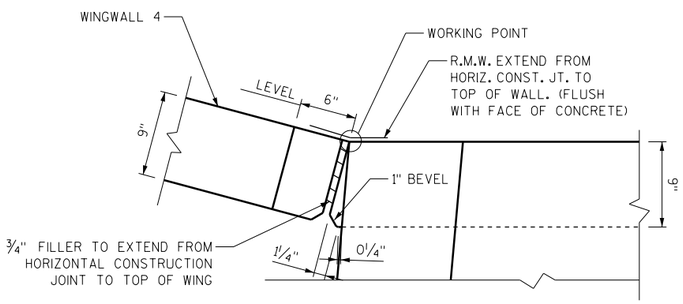
THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS C-5-151" SHALL BE THE EXISTING GROUND LINE.

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

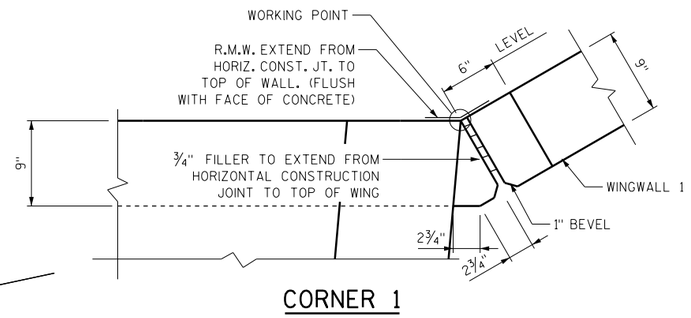
BACKFILL WITH "BACKFILL STRUCTURE TYPE B" ALL VOLUME WHICH CANNOT BE PLACED BEFORE CULVERT CONSTRUCTION AND WILL NOT OCCUPIED BY THE NEW STRUCTURE. BACKFILL WITHIN THE LENGTH OF THE BOX INCLUDING THE APRON WING WALLS

◐ UNDER CUT 1'-0". INCLUDE THE EXCAVATION FOR UNDER CUT IN "EXCAVATION FOR STRUCTURES CULVERTS C-5-151". PLACE "GEOTEXTILE TYPE C" AND BACKFILL WITH "BREAKER RUN".

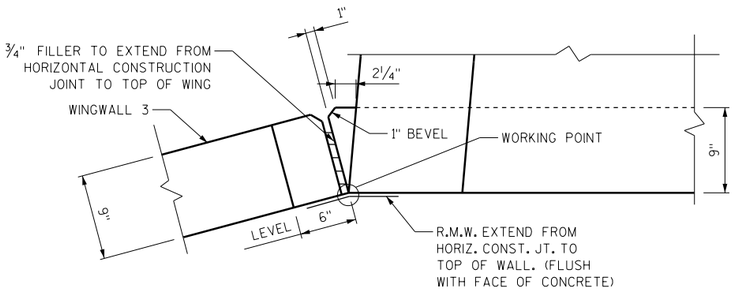
PLACE ALL PRECAST BOX SECTIONS ON A BEDDING OF "STRUCTURE BACKFILL TYPE B" OF 6" MINIMUM DEPTH.



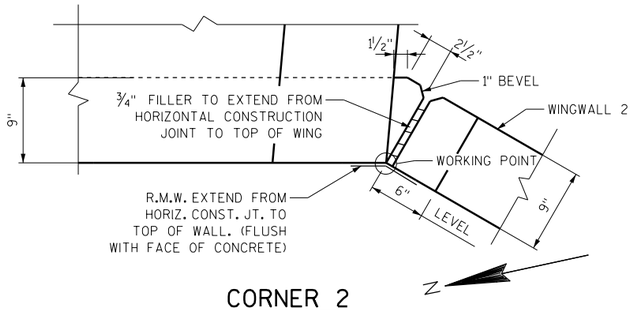
CORNER 4



CORNER 1



CORNER 3



CORNER 2

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-5-151

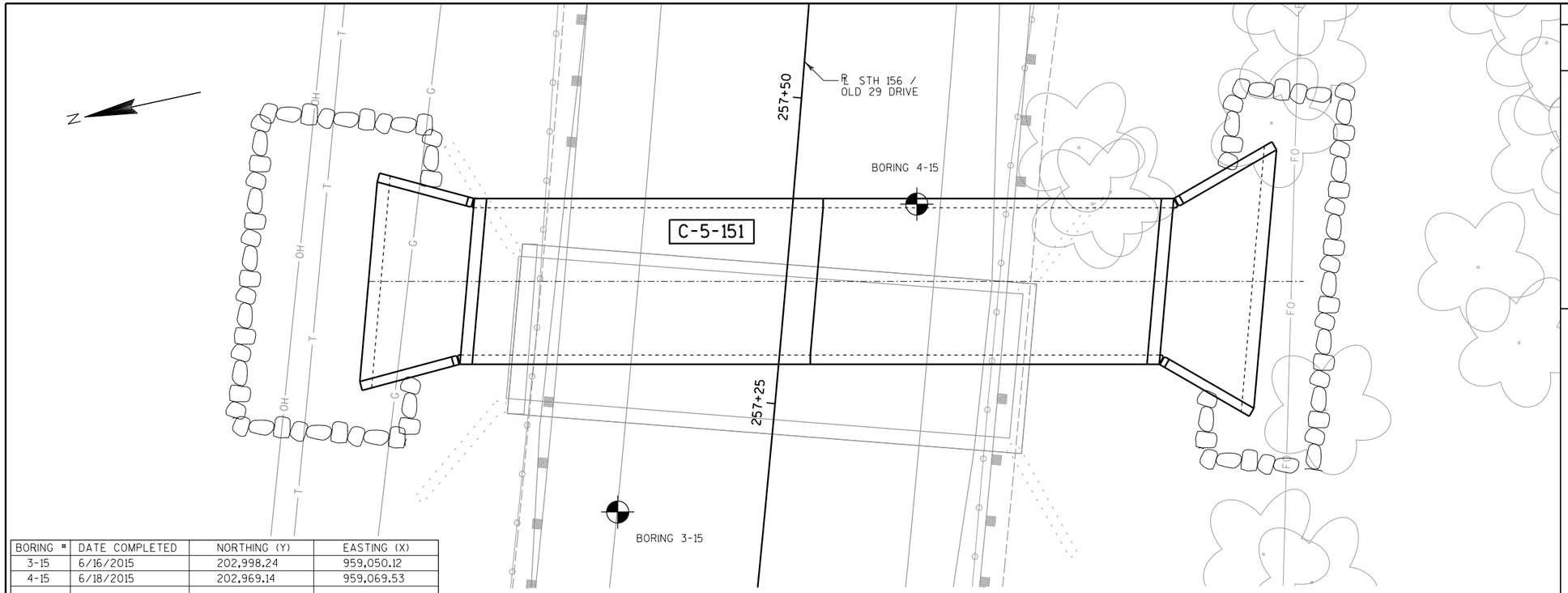
DRAWN BY PLR | PLANS CK'D. AJC

APRON DETAILS 2

SHEET 4 OF 5

8

8

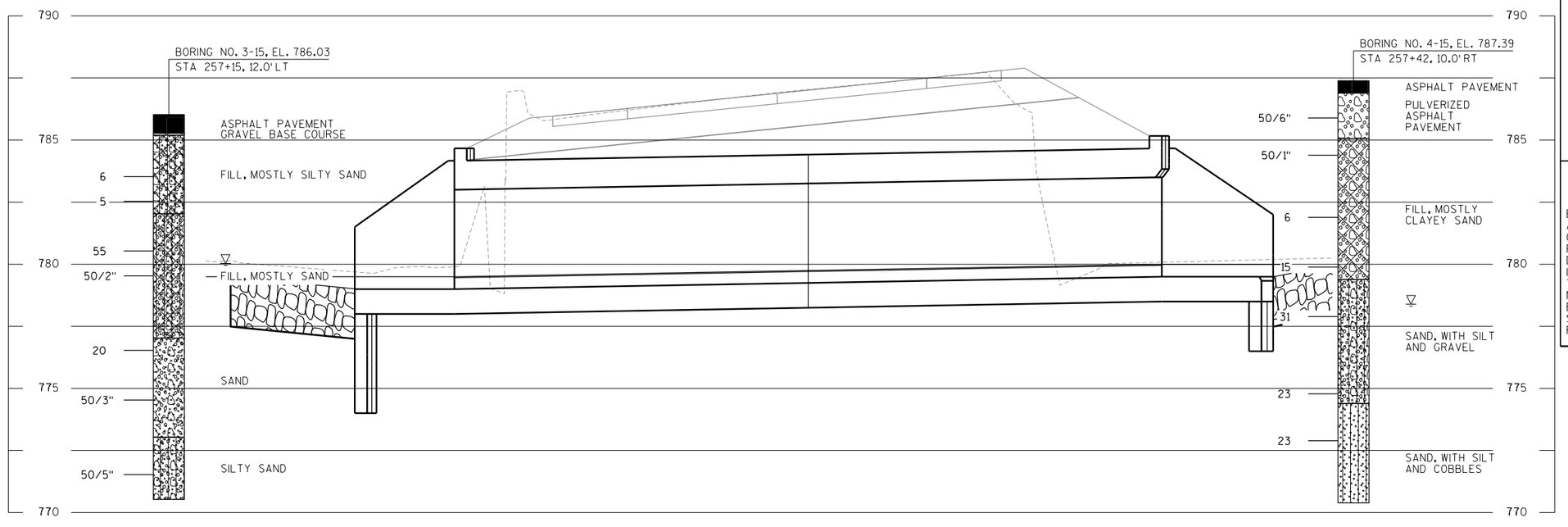


BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
3-15	6/16/2015	202,998.24	959,050.12
4-15	6/18/2015	202,969.14	959,069.53
BORINGS COMPLETED BY: RIVER VALLEY TESTING CORP.			
REPORT COMPLETED BY: RIVER VALLEY TESTING CORP.			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) SHAWANO COUNTY			

SOIL BORINGS:

BORING STATIONS AND OFFSETS ARE BASED ON ℄ STH 156 / OLD 29 DRIVE.

DENOTES SOIL BORING LOCATION



STATE PROJECT NUMBER

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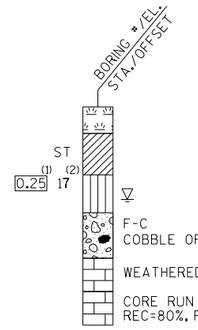
MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- AT TIME OF DRILLING
- END OF DRILLING
- AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

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STRUCTURE C-5-151

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SUBSURFACE EXPLORATION

SHEET 5 OF 5

8

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NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	SALVAGED/UNUSABLE PAVEMENT MATERIAL IS NOT SHOWN ON CROSS SECTIONS; REMOVE AND WASTE EXISTING AND TEMPORARY PAVEMENTS PRESENT IN BOTH CUT AND FILL SECTIONS; SALVAGED/UNUSABLE PAVEMENT MATERIAL INCLUDES BOTH CONCRETE AND ASPHALTIC PAVEMENTS
3 - FILL	INCLUDES BACKFILL OF SALVAGED/UNUSABLE PAVEMENT MATERIAL EXCAVATION AREAS TO BE REMOVED BELOW THE ULTIMATE SUBGRADE IN FILL SECTIONS
4 - EXPANDED FILL	((UNEXPANDED FILL - REDUCED EBS IN FILL) * FILL FACTOR)
5 - EXPANDED EBS BACKFILL	(EBS EXCAVATION * EXPANDED EBS BACKFILL FACTOR)
6 - REDUCED EBS IN FILL	(EBS EXCAVATION * REDUCED EBS FILL FACTOR)
7 - MASS ORDINATE	((CUT) - (EXPANDED FILL) - (SALVAGED/UNUSABLE PAVEMENT MATERIAL)); PLUS INDICATES AN EXCESS OF MATERIAL; MINUS INDICATES A SHORTAGE OF MATERIAL

STH 156/OLD 29 DR (CURVE RECONSTRUCTION AND B-05-0435)
STA 196+50 - STA 217+50

STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)					MASS ORDINATE
		CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.25 NOTE 4	EXPANDED EBS BACKFILL 1.30 NOTE 5	REDUCED EBS IN FILL 0.80 NOTE 6	NOTE 7
196+50		52	15	0	0	0	0	0	0	0	0	0	0	0	0
197+00	50	74	15	4	0	117	27	4	0	117	27	4	0	0	85
197+18	18	111	15	3	0	62	10	2	0	178	37	7	0	0	134
197+50	32	75	15	13	0	110	17	10	0	288	54	20	0	0	215
197+88	38	67	15	17	0	100	21	21	0	389	75	46	0	0	267
198+00	12	59	15	3	0	27	6	4	0	416	81	52	0	0	283
198+50	50	53	15	2	0	103	27	5	0	519	109	58	0	0	353
199+00	50	55	15	2	0	100	27	4	0	619	136	62	0	0	421
199+18	18	81	15	14	0	47	10	5	0	666	146	69	0	0	451
199+50	32	99	15	12	0	106	17	16	0	771	163	89	0	0	520
200+00	50	81	15	13	0	167	27	24	0	938	190	118	0	0	629
200+50	50	70	15	18	0	140	27	29	0	1,078	217	154	0	0	706
201+00	50	63	15	24	0	123	27	39	0	1,201	244	203	0	0	754
201+50	50	60	15	22	0	114	27	42	0	1,315	272	255	0	0	788
202+00	50	66	15	15	67	116	27	34	62	1,431	299	236	80	49	896
202+18	18	71	0	12	69	46	5	9	46	1,477	304	201	140	86	972
202+50	32	84	0	9	67	91	0	13	80	1,568	304	138	243	150	1,127
203+00	50	104	0	23	50	174	0	29	108	1,743	304	66	384	236	1,373
203+50	50	76	0	44	27	167	0	62	71	1,910	304	73	476	293	1,534
203+68	18	60	0	46	47	46	0	31	25	1,956	304	86	508	313	1,567
204+00	32	31	0	37	32	54	0	49	46	2,010	304	101	568	349	1,605
204+25	25	16	0	32	38	22	0	32	32	2,032	304	108	610	375	1,620
204+50	25	18	0	35	34	15	0	31	34	2,047	304	114	654	402	1,630
205+00	50	38	0	33	40	52	0	63	69	2,099	304	124	743	457	1,671
205+50	50	44	0	28	49	76	0	56	82	2,175	304	112	850	523	1,759
206+00	50	65	0	24	55	101	0	48	96	2,276	304	76	976	600	1,896
206+50	50	91	0	12	70	145	0	34	116	2,420	304	2	1,126	693	2,115
207+00	50	90	0	44	39	167	0	52	101	2,588	304	-34	1,258	774	2,318
207+50	50	150	0	0	83	222	0	41	114	2,810	304	-97	1,406	865	2,603
208+00	50	203	0	0	83	327	0	0	154	3,137	304	-251	1,606	988	3,085
208+50	50	239	0	0	83	409	0	0	154	3,546	304	-406	1,806	1,112	3,648
209+00	50	244	0	0	83	447	0	0	154	3,993	304	-560	2,007	1,235	4,249
209+50	50	90	0	14	72	309	0	13	144	4,302	304	-687	2,194	1,350	4,686
210+00	50	281	0	43	41	344	0	53	104	4,646	304	-725	2,330	1,434	5,068
210+50	50	185	0	31	53	432	0	68	87	5,078	304	-727	2,443	1,503	5,501
211+00	50	182	0	15	69	340	0	43	114	5,417	304	-787	2,590	1,594	5,901
211+50	50	133	0	2	81	291	0	16	139	5,708	304	-907	2,772	1,706	6,311
212+00	50	116	15	0	83	231	14	2	152	5,939	317	-1,056	2,969	1,827	6,678
212+50	50	93	15	1	0	194	27	1	77	6,133	344	-1,132	3,070	1,889	6,921
213+00	50	90	15	1	0	169	27	2	0	6,302	372	-1,130	3,070	1,889	7,061
213+29	29	80	15	1	0	92	16	1	0	6,395	388	-1,129	3,070	1,889	7,136
213+50	21	73	15	1	0	59	11	0	0	6,453	399	-1,128	3,070	1,889	7,183
213+60	10	69	15	1	0	27	6	0	0	6,481	404	-1,128	3,070	1,889	7,205
214+00	40	81	15	0	0	110	22	1	0	6,591	426	-1,127	3,070	1,889	7,293
214+48	48	71	15	10	0	134	26	9	0	6,725	452	-1,116	3,070	1,889	7,389
214+50	3	71	15	10	0	7	1	1	0	6,732	453	-1,115	3,070	1,889	7,394
214+73	23	75	15	10	0	61	12	8	0	6,792	465	-1,105	3,070	1,889	7,432
214+79	6	76	15	10	0	17	3	2	0	6,809	469	-1,102	3,070	1,889	7,443
214+98	19	89	15	6	0	58	10	6	0	6,867	479	-1,095	3,070	1,889	7,483
215+00	3	87	15	5	0	8	1	1	0	6,875	480	-1,094	3,070	1,889	7,489
215+04	4	78	15	7	0	11	2	1	0	6,886	482	-1,093	3,070	1,889	7,497
215+29	25	72	15	3	0	69	14	4	0	6,956	496	-1,088	3,070	1,889	7,547
215+50	21	71	15	7	0	57	12	4	0	7,013	507	-1,083	3,070	1,889	7,588
216+00	50	56	15	24	0	103	27	44	0	7,116	535	-1,027	3,070	1,889	7,609
216+50	50	46	15	13	0	95	27	34	0	7,211	562	-985	3,070	1,889	7,634
216+65	15	56	15	12	0	29	8	7	0	7,240	570	-976	3,070	1,889	7,646
216+90	25	61	15	21	0	54	14	15	0	7,294	584	-957	3,070	1,889	7,667
216+98	8	69	15	20	0	18	4	6	0	7,312	588	-950	3,070	1,889	7,674
217+00	2	71	15	16	0	6	1	1	0	7,317	589	-949	3,070	1,889	7,677
217+15	15	60	15	19	0	37	8	10	0	7,355	597	-936	3,070	1,889	7,693
217+23	8	59	15	12	0	16	4	4	0	7,371	601	-931	3,070	1,889	7,700
217+48	25	71	15	5	0	60	14	8	0	7,432	615	-920	3,070	1,889	7,737
217+50	2	75	15	5	0	6	1	0	0	7,437	616	-920	3,070	1,889	7,741
				COLUMN TOTALS		7,437	616	1,153	2,361						

STH 156/OLD 29 DR (C-05-0151)
STA 253+89 - STA 260+54

STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)					MASS ORDINATE
		CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.25 NOTE 4	EXPANDED EBS BACKFILL 1.30 NOTE 5	REDUCED EBS IN FILL 0.80 NOTE 6	NOTE 7
253+89		93	15	0	0	0	0	0	0	0	0	0	0	0	0
254+00	11	60	15	24	0	31	6	5	0	31	6	6	0	0	19
254+50	50	72	15	24	0	123	27	44	0	154	33	61	0	0	59
255+00	50	66	15	29	0	128	27	49	0	282	60	123	0	0	99
255+25	25	67	15	34	0	62	14	29	0	344	74	160	0	0	110
255+33	8	89	15	31	0	23	4	10	0	367	78	172	0	0	117
255+50	17	79	15	37	0	53	9	21	0	420	87	198	0	0	134
255+79	29	78	15	51	0	84	16	47	0	504	103	257	0	0	144
256+00	21	75	15	48	0	59	11	39	0	563	115	305	0	0	144
256+04	4	74	15	48	0	11	2	7	0	574	117	314	0	0	143
256+10	6	72	15	45	0	16	3	10	0	591	120	327	0	0	144
256+29	19	74	15	27	0	52	10	26	0	642	130	359	0	0	153
256+35	6	73	15	25	0	16	3	6	0	659	134	366	0	0	159
256+50	15	66	15	23	0	38	8	13	0	697	142	383	0	0	172
256+60	10	68	15	19	0	25	5	8	0	722	147	393	0	0	181
257+00	40	82	15	21	0	111	22	30	0	832	169	430	0	0	233
257+50	50	167	15	23	0	309	27	42	0	1,141	196	483	0	0	463
257+65	15	133	15	21	0	83	8	12	0	1,224	204	498	0	0	522
257+90	25	119	15	0	0	117	14	10	0	1,341	218	510	0	0	613
258+00	10	110	15	4	0	42	5	1	0	1,384	223	511	0	0	649
258+25	25	61	15	48	0	79	14	24	0	1,463	237	541	0	0	684
258+43	18	60	15	39	0	40	10	29	0	1,503	247	578	0	0	678
258+50	7	59	15	36	0	15	4	10	0	1,518	250	590	0	0	678
258+68	18	61	15	32	0	40	10	23	0	1,558	260	618	0	0	680
258+75	7	63	15	30	0	16	4	8	0	1,574	264	628	0	0	682
258+92	17	62	15	31	0	40	9	19	0	1,614	273	653	0	0	688
258+93	1	63	15	32	0	2	1	1	0	1,616	274	654	0	0	688
259+00	7	63	15	33	0	16	4	8	0	1,632	278	665	0	0	690
259+17	17	66	15	36	0	41	9	22	0	1,673	287	692	0	0	695
259+42	25	67	15	36	0	62	14	33	0	1,735	300	734	0	0	701
259+50	8	66	15	31	0	20	4	10	0	1,754	305	746	0	0	704
259+66	16	65	15	21	0	39	9	15	0	1,793	313	765	0	0	715
260+00	34	71	15	9	0	86	18	19	0	1,879	332	789	0	0	758
260+36	36	68	15	4	0	93	20	9	0	1,972	351	800	0	0	820
260+50	14	57	15	3	0	32	8	2	0	2,004	359	802	0	0	843
260+54	4	54	15	0	0	8	2	0	0	2,013	361	803	0	0	849
				COLUMN TOTALS		2,013	361	642	0						

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PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	EARTHWORK	SHEET	E

STH 156/OLD 29 DR (CTH Y INTERSECTION)
STA 276+25 - STA 286+59

STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)					MASS ORDINATE
		CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.25 NOTE 4	EXPANDED EBS BACKFILL 1.30 NOTE 5	REDUCED EBS IN FILL 0.80 NOTE 6	NOTE 7
276+25	0	87	15	1	0	0	0	0	0	0	0	0	0	0	0
276+39	14	82	15	10	0	43	7	3	0	43	7	3	0	0	33
276+50	11	88	15	8	0	35	6	4	0	78	14	8	0	0	57
277+00	50	145	15	7	0	215	27	14	0	294	41	25	0	0	228
277+50	50	152	15	4	0	275	27	10	0	569	68	37	0	0	464
277+67	17	156	15	3	0	97	9	2	0	666	77	39	0	0	549
277+68	1	156	15	3	0	4	0	0	0	670	78	40	0	0	553
278+00	32	175	15	1	0	197	17	2	0	867	95	42	0	0	730
278+50	50	178	15	7	0	327	27	8	0	1,194	122	52	0	0	1,020
278+67	17	111	15	0	0	93	9	2	0	1,287	132	55	0	0	1,101
279+00	33	112	15	0	0	135	18	0	0	1,422	149	55	0	0	1,218
279+50	50	127	15	0	0	222	27	0	0	1,644	177	55	0	0	1,412
279+69	19	143	15	0	0	93	10	0	0	1,737	187	55	0	0	1,495
280+00	31	102	15	0	0	142	17	0	0	1,879	204	55	0	0	1,621
280+50	50	117	15	0	0	202	27	0	0	2,081	231	55	0	0	1,796
280+85	35	87	15	2	0	133	19	1	0	2,215	250	56	0	0	1,908
281+00	15	156	15	1	0	67	8	1	0	2,281	258	57	0	0	1,966
281+13	13	171	15	4	0	79	7	1	0	2,360	265	59	0	0	2,036
281+50	37	167	15	1	0	231	20	3	0	2,591	285	63	0	0	2,243
281+60	10	164	15	1	0	61	5	0	0	2,653	291	64	0	0	2,298
282+00	40	163	15	3	0	243	22	3	0	2,895	312	67	0	0	2,515
282+13	13	152	15	4	0	76	7	2	0	2,971	319	69	0	0	2,582
282+50	37	142	15	4	0	201	20	5	0	3,172	340	75	0	0	2,757
283+00	50	64	15	3	0	190	27	6	0	3,362	367	83	0	0	2,912
283+50	50	56	15	3	0	111	27	5	0	3,474	394	90	0	0	2,990
284+00	50	46	15	3	0	94	27	5	0	3,568	421	96	0	0	3,051
284+50	50	38	15	1	0	78	27	3	0	3,645	448	100	0	0	3,097
285+00	50	34	15	0	0	67	27	1	0	3,712	475	102	0	0	3,135
285+50	50	34	15	0	0	62	27	0	0	3,775	502	102	0	0	3,171
286+00	50	39	15	0	0	67	27	0	0	3,841	530	102	0	0	3,210
286+30	30	32	15	0	0	40	16	0	0	3,881	546	102	0	0	3,233
286+50	20	32	15	0	0	24	11	0	0	3,905	557	102	0	0	3,246
286+59	9	33	15	0	0	11	5	0	0	3,916	562	102	0	0	3,252
				COLUMN TOTALS		3,916	562	81	0						

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PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	EARTHWORK	SHEET	E

CTH Y (SOUTH OF STH 156)
STA 3+17 - STA 4+85

STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)					MASS ORDINATE
		CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.25 NOTE 4	EXPANDED EBS BACKFILL 1.30 NOTE 5	REDUCED EBS IN FILL 0.80 NOTE 6	NOTE 7
3+17	0	53	15	0	0	0	0	0	0	0	0	0	0	0	0
3+50	33	73	15	3	0	77	18	3	0	77	18	4	0	0	55
4+00	50	122	15	3	0	180	27	6	0	257	45	11	0	0	201
4+06	6	127	15	3	0	27	3	1	0	284	48	12	0	0	224
4+18	12	155	15	3	0	65	7	1	0	349	55	13	0	0	281
4+46	28	264	15	10	0	214	15	10	0	562	70	26	0	0	466
4+50	4	292	15	12	0	43	2	2	0	605	72	28	0	0	505
4+64	14	115	15	11	0	105	8	6	0	710	80	36	0	0	595
4+85	21	0	15	0	0	46	12	0	0	756	91	36	0	0	629
				COLUMN TOTALS		756	91	29	0						

STH 156 (NORTH OF CTH Y & OLD 29 DR)
STA 5+42 - STA 10+67

STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)					MASS ORDINATE
		CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.25 NOTE 4	EXPANDED EBS BACKFILL 1.30 NOTE 5	REDUCED EBS IN FILL 0.80 NOTE 6	NOTE 7
5+42	0	229	15	2	0	0	0	0	0	0	0	0	0	0	0
5+50	8	244	15	68	0	70	4	20	0	70	4	25	0	0	40
5+61	11	177	15	300	0	84	6	120	0	154	10	175	0	0	-32
6+00	39	301	15	12	0	347	21	18	0	501	31	198	0	0	271
6+45	45	149	15	6	0	375	24	10	0	876	56	210	0	0	610
6+50	5	147	15	6	0	27	3	1	0	904	59	211	0	0	633
7+00	50	121	15	8	0	249	27	14	0	1,152	86	229	0	0	837
7+50	50	103	15	8	0	208	27	15	0	1,360	113	248	0	0	999
8+00	50	81	15	9	0	171	27	16	0	1,531	140	268	0	0	1,122
8+50	50	72	15	12	0	142	27	22	0	1,672	167	296	0	0	1,209
9+00	50	18	15	9	0	83	27	16	0	1,755	194	316	0	0	1,245
9+50	50	16	15	5	0	31	27	9	0	1,787	222	328	0	0	1,237
10+00	50	15	15	2	0	29	27	4	0	1,816	249	332	0	0	1,235
10+50	50	14	15	2	0	27	27	4	0	1,843	276	338	0	0	1,229
10+67	17	13	15	0	0	8	9	0	0	1,851	285	338	0	0	1,229
				COLUMN TOTALS		1,851	285	270	0						

ST. AUGUSTINE RD OVERPASS (SOUTH OF STH 29)
STA 10+24 - STA 18+75

STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)					MASS ORDINATE
			CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.25 NOTE 4	EXPANDED EBS BACKFILL 1.30 NOTE 5	REDUCED EBS IN FILL 0.80 NOTE 6	NOTE 7
10+24	1024	0	0	0	130	0	0	0	0	0	0	0	0	0	0	0
10+50	1050	26	25	0	173	0	12	0	146	0	12	0	182	0	0	-170
11+00	1100	50	13	0	91	106	35	0	244	98	46	0	390	127	78	-343
11+50	1150	50	23	0	82	121	33	0	160	210	79	0	379	401	247	-300
12+00	1200	50	23	0	130	110	43	0	197	214	122	0	411	679	418	-289
12+50	1250	50	20	0	204	131	40	0	309	223	162	0	574	969	597	-413
13+00	1300	50	14	0	332	139	31	0	496	250	193	0	945	1,294	796	-752
13+50	1350	50	20	0	492	162	32	0	763	279	225	0	1,619	1,657	1,020	-1,395
14+00	1400	50	33	0	701	149	49	0	1,104	288	273	0	2,711	2,032	1,250	-2,438
14+50	1450	50	40	0	947	148	67	0	1,525	275	341	0	4,343	2,389	1,470	-4,002
15+00	1500	50	41	0	1,222	157	76	0	2,008	283	417	0	6,571	2,757	1,697	-6,154
15+50	1550	50	32	0	1,569	165	68	0	2,584	299	485	0	9,502	3,145	1,936	-9,018
16+00	1600	50	22	0	1,962	176	50	0	3,270	315	535	0	13,274	3,555	2,188	-12,739
16+45	1645	45	14	0	1,962	176	30	0	3,247	291	565	0	17,042	3,933	2,420	-16,477
16+50	1650	5	11	0	2,336	183	2	0	423	35	568	0	17,536	3,979	2,449	-16,968
16+78	1678	28	8	0	2,404	183	9	0	2,420	187	577	0	20,373	4,222	2,598	-19,796
17+00	1700	22	6	0	2,590	186	6	0	2,074	153	583	0	22,813	4,422	2,721	-22,230
17+19	1719	19	6	0	2,753	179	4	0	1,850	127	587	0	24,999	4,586	2,822	-24,412
17+44	1744	25	7	0	3,131	213	6	0	2,722	182	592	0	28,219	4,822	2,968	-27,627
17+50	1750	6	7	0	3,143	213	2	0	734	50	594	0	29,087	4,887	3,007	-28,493
17+69	1769	19	11	0	3,204	218	6	0	2,198	150	600	0	31,685	5,081	3,127	-31,085
17+94	1794	25	13	0	3,282	228	11	0	3,000	207	611	0	35,229	5,350	3,292	-34,618
18+00	1800	6	14	0	3,290	228	3	0	769	53	614	0	36,137	5,420	3,335	-35,523
18+19	1819	19	16	0	3,383	211	10	0	2,306	152	624	0	38,867	5,617	3,457	-38,243
18+50	1850	31	11	0	3,483	204	16	0	3,985	241	640	0	43,608	5,930	3,649	-42,968
18+75	1875	25	0	0	1,667	204	5	0	2,354	186	645	0	46,363	6,172	3,798	-45,718
					COLUMN TOTALS		645	0	40,889	4,748						

ST. AUGUSTINE RD OVERPASS (NORTH OF STH 29)
STA 20+93 - STA 37+00

STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)					MASS ORDINATE
			CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.25 NOTE 4	EXPANDED EBS BACKFILL 1.30 NOTE 5	REDUCED EBS IN FILL 0.80 NOTE 6	NOTE 7
20+93	2093	0	31	0	1,526	206	0	0	0	0	0	0	0	0	0	0
21+00	2100	7	31	0	4,035	206	9	0	770	57	9	0	906	74	46	-897
21+49	2149	49	29	0	4,169	239	54	0	7,375	400	63	0	9,724	594	366	-9,661
21+50	2150	1	32	0	4,185	239	2	0	226	13	64	0	9,994	611	376	-9,929
21+74	2174	24	41	0	4,247	243	32	0	3,673	210	96	0	14,375	884	544	-14,279
21+99	2199	25	41	0	4,312	250	38	0	3,966	228	134	0	19,104	1,180	726	-18,970
22+00	2200	1	40	0	4,340	252	2	0	234	14	136	0	19,383	1,198	737	-19,247
22+24	2224	24	38	0	4,384	271	34	0	3,800	228	170	0	23,905	1,494	919	-23,735
22+49	2249	25	43	0	4,350	247	37	0	4,040	240	207	0	28,716	1,805	1,111	-28,509
22+50	2250	2	55	0	3,995	230	3	0	232	13	210	0	28,992	1,823	1,122	-28,782
22+91	2291	41	69	0	4,081	225	93	0	6,064	341	303	0	36,231	2,266	1,395	-35,928
23+00	2300	9	83	0	3,999	218	27	0	1,414	77	330	0	37,921	2,367	1,457	-37,591
23+41	2341	41	104	0	3,717	234	140	0	5,795	339	470	0	44,825	2,808	1,728	-44,355
23+50	2350	9	66	0	3,525	343	30	0	1,267	101	500	0	46,308	2,939	1,809	-45,808
24+00	2400	50	92	0	3,259	249	147	0	6,281	548	646	0	53,612	3,651	2,247	-52,965
24+50	2450	50	115	0	2,924	191	192	0	5,725	408	838	0	60,360	4,181	2,573	-59,521
25+00	2500	50	95	0	2,565	191	195	0	5,083	354	1,034	0	66,359	4,641	2,856	-65,326
25+50	2550	50	121	0	2,236	202	201	0	4,446	364	1,234	0	71,553	5,114	3,147	-70,319
26+00	2600	50	149	0	1,931	203	251	0	3,859	375	1,485	0	76,002	5,602	3,447	-74,517
26+50	2650	50	159	0	1,677	191	285	0	3,341	365	1,770	0	79,813	6,076	3,739	-78,043
27+00	2700	50	77	0	1,448	191	218	0	2,893	354	1,988	0	83,075	6,536	4,022	-81,087
27+50	2750	50	45	0	1,238	133	113	0	2,487	300	2,101	0	85,883	6,926	4,262	-83,782
28+00	2800	50	86	0	1,040	129	122	0	2,110	243	2,223	0	88,277	7,242	4,457	-86,055
28+50	2850	50	87	0	601	113	161	0	1,520	224	2,383	0	89,953	7,534	4,636	-87,570
29+00	2900	50	102	0	478	110	175	0	1,000	206	2,559	0	90,997	7,802	4,801	-88,438
29+50	2950	50	281	0	578	132	355	0	978	224	2,913	0	91,996	8,093	4,980	-89,083
30+00	3000	50	174	7	538	125	421	7	1,034	238	3,335	7	93,051	8,401	5,170	-89,723
30+50	3050	50	98	7	355	202	252	14	827	303	3,587	20	93,783	8,795	5,412	-90,216
31+00	3100	50	122	7	222	153	204	14	534	328	3,790	34	94,122	9,222	5,675	-90,366
31+50	3150	50	94	7	133	193	201	14	328	320	3,991	48	94,212	9,637	5,931	-90,268
32+00	3200	50	72	7	87	102	154	14	203	273	4,145	61	94,193	9,992	6,149	-90,109
32+50	3250	50	90	7	64	82	150	14	140	170	4,295	75	94,198	10,214	6,285	-89,978
33+00	3300	50	115	7	55	94	190	14	111	163	4,484	88	94,173	10,426	6,416	-89,777
33+50	3350	50	98	7	58	112	197	14	105	191	4,682	102	94,113	10,674	6,569	-89,533
34+00	3400	50	95	7	65	107	179	14	114	204	4,861	115	94,052	10,938	6,731	-89,307
34+50	3450	50	88	7	49	103	169	14	106	195	5,030	129	93,989	11,192	6,887	-89,088
35+00	3500	50	80	7	79	122	156	14	119	209	5,186	143	93,929	11,463	7,054	-88,886
35+50	3550	50	83	7	56	111	152	14	126	216	5,337	156	93,870	11,744	7,227	-88,689
35+93	3593	43	107	7	46	105	150	12	80	170	5,487	168	93,800	11,965	7,363	-88,481
36+00	3600	8	63	7	48	106	24	2	13	29	5,511	170	93,788	12,003	7,386	-88,447
36+50	3650	50	41	7	40	77	96	14	81	169	5,606	183	93,720	12,223	7,522	-88,297
37+00	3700	50	26	7	0	62	62	14	37	129	5,669	197	93,638	12,390	7,625	-88,166
					COLUMN TOTALS		5,669	197	82,535	9,531						

9

EXISTING ST. AUGUSTINE RD (CUL DE SAC)
STA 11+39 - STA 13+75

STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)					MASS ORDINATE
		CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.25 NOTE 4	EXPANDED EBS BACKFILL 1.30 NOTE 5	REDUCED EBS IN FILL 0.80 NOTE 6	NOTE 7
11+39		483	7	0	0	0	0	0	0	0	0	0	0	0	0
11+50	11	393	7	0	0	182	3	0	0	182	3	0	0	0	179
12+00	50	224	7	0	0	571	14	0	0	754	17	0	0	0	737
12+50	50	211	7	0	0	403	14	0	0	1,157	30	0	0	0	1,127
13+00	50	216	7	28	0	396	14	26	0	1,553	44	33	0	0	1,476
13+50	50	148	7	2	0	337	14	28	0	1,890	57	68	0	0	1,765
13+75	25	7	7	0	0	72	7	1	0	1,962	64	70	0	0	1,828
				COLUMN TOTALS		1,962	64	56	0						

EXISTING ST. AUGUSTINE RD (TIE TO ST. AUGUSTINE RD)
STA 18+70 - STA 22+59

STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)						CUMULATIVE VOL (CY)					MASS ORDINATE
		CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	MARSH EXC	ROCK EXC	EBS	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.25 NOTE 4	EXPANDED EBS BACKFILL 1.30 NOTE 5	REDUCED EBS IN FILL 0.80 NOTE 6	NOTE 7
18+70		29	7	13	0	0	0	0	0	0	0	0	0	0	0	0	0
19+00	30	38	7	5	0	37	8	10	0	0	0	37	8	12	0	0	16
19+50	50	41	7	3	0	73	14	8	0	0	0	110	22	22	0	0	66
20+00	50	38	7	4	0	74	14	7	0	0	0	183	35	30	0	0	118
20+50	50	45	7	6	0	77	14	9	0	0	0	260	49	42	0	0	170
21+00	50	39	7	20	0	78	14	24	0	0	0	338	62	72	0	0	204
21+50	50	47	7	76	0	79	14	89	0	0	0	417	76	183	0	0	158
22+00	50	154	7	199	0	186	14	255	0	0	0	603	90	502	0	0	12
22+50	50	0	7	395	0	0	14	732	0	0	0	603	103	1,417	0	0	-916
22+59	9	0	7	345	0	0	2	119	0	0	0	603	106	1,566	0	0	-1,068
				COLUMN TOTALS		603	106	1,252	0	0	0						

STH 29 (TURN LANE AND MEDIAN REMOVAL)
STA 316+50 - STA 335+09

STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)					
		CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.25 NOTE 4	EXPANDED EBS BACKFILL 1.30 NOTE 5	REDUCED EBS IN FILL 0.80 NOTE 6	MASS ORDINATE NOTE 7
316+50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
317+00	50	67	0	11	0	62	0	10	0	62	0	12	0	0	49
317+50	50	69	0	0	0	126	0	10	0	188	0	25	0	0	163
318+00	50	67	0	0	0	126	0	0	0	314	0	25	0	0	289
318+50	50	63	0	0	0	120	0	0	0	434	0	25	0	0	410
319+00	50	55	0	0	0	109	0	0	0	544	0	25	0	0	519
319+24	24	60	4	4	0	51	2	2	0	595	2	27	0	0	566
319+50	26	55	4	8	0	56	4	6	0	650	6	34	0	0	610
320+00	50	46	4	16	0	94	7	22	0	744	13	62	0	0	670
320+50	50	50	4	19	0	89	7	32	0	833	20	102	0	0	711
320+74	24	37	4	21	0	39	4	18	0	872	24	123	0	0	724
321+00	26	10	4	27	0	23	4	23	0	894	28	152	0	0	714
321+38	38	11	4	35	0	14	6	43	0	909	33	206	0	0	669
321+50	12	11	4	37	0	5	2	16	0	913	35	226	0	0	652
322+00	50	11	4	45	0	21	7	76	0	934	43	321	0	0	571
322+02	2	11	4	45	0	1	0	3	0	935	43	325	0	0	567
322+37	35	12	4	40	0	15	5	55	0	950	48	394	0	0	508
322+50	13	12	4	38	0	6	2	19	0	956	50	417	0	0	488
322+89	39	13	4	31	0	18	6	50	0	974	56	480	0	0	439
323+00	11	13	4	29	0	5	2	12	0	980	57	495	0	0	427
323+02	2	13	4	29	0	1	0	2	0	980	58	497	0	0	426
323+50	48	14	4	17	0	25	7	41	0	1,005	65	548	0	0	392
323+52	2	22	4	17	0	2	0	1	0	1,006	65	550	0	0	391
323+65	13	51	4	13	0	17	2	7	0	1,024	67	559	0	0	398
324+00	35	61	4	4	0	73	5	11	0	1,096	72	573	0	0	451
324+45	45	82	4	0	0	119	7	4	0	1,215	79	578	0	0	558
324+50	5	85	4	0	0	15	1	0	0	1,231	80	578	0	0	573
325+00	50	103	7	0	0	174	10	0	0	1,405	90	578	0	0	737
325+15	15	107	8	0	0	58	4	0	0	1,463	94	578	0	0	791
325+50	35	121	10	0	0	148	12	0	0	1,611	106	578	0	0	927
326+00	50	120	14	0	0	223	22	0	0	1,834	128	578	0	0	1,128
326+50	50	124	14	0	0	226	26	0	0	2,060	154	578	0	0	1,328
327+00	50	110	14	0	0	217	26	0	0	2,277	180	578	0	0	1,519
327+31	31	93	14	0	0	117	16	0	0	2,393	196	578	0	0	1,619
327+50	19	89	14	15	0	64	10	5	0	2,457	206	585	0	0	1,667
328+00	50	114	14	14	0	188	26	26	0	2,645	232	618	0	0	1,796
328+50	50	168	60	0	0	261	69	13	0	2,906	300	634	0	0	1,972
328+52	2	174	60	0	0	14	5	0	0	2,920	305	634	0	0	1,981
329+00	48	414	60	0	0	521	106	0	0	3,441	411	634	0	0	2,396
329+50	50	362	60	0	0	719	111	0	0	4,160	522	634	0	0	3,004
329+84	34	175	60	0	0	337	75	0	0	4,498	598	634	0	0	3,266
330+00	16	132	16	0	0	92	23	0	0	4,589	620	634	0	0	3,335
330+50	50	119	16	0	0	233	30	0	0	4,822	650	634	0	0	3,538
330+70	20	100	16	0	0	82	12	0	0	4,904	662	634	0	0	3,608
330+85	15	87	16	0	0	51	9	0	0	4,955	671	634	0	0	3,651
331+00	15	72	16	0	0	44	9	0	0	5,000	680	634	0	0	3,686
331+50	50	63	16	2	0	125	30	2	0	5,125	709	637	0	0	3,779
332+00	50	48	16	11	0	103	30	12	0	5,228	739	652	0	0	3,837
332+50	50	34	14	5	0	76	28	14	0	5,304	767	670	0	0	3,867
333+00	50	25	12	9	0	55	24	13	0	5,359	791	685	0	0	3,882
333+50	50	26	10	0	0	47	20	8	0	5,406	811	696	0	0	3,899
334+00	50	23	8	0	0	46	17	0	0	5,451	828	696	0	0	3,927
334+50	50	14	6	0	0	35	13	0	0	5,486	841	696	0	0	3,949
334+83	33	9	4	1	0	14	6	0	0	5,500	847	697	0	0	3,957
335+00	17	2	4	0	0	3	3	0	0	5,504	849	697	0	0	3,957
335+09	9	1	4	0	0	0	1	0	0	5,504	851	697	0	0	3,956
				COLUMN TOTALS		5,504	851	558	0						

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PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	EARTHWORK	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\090101_ew.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:200
WISDOT/CADDS SHEET 49

EXISTING STH 156 (REMOVAL)
STA 2+59 - STA 8+92

STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)					MASS ORDINATE
		CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.25 NOTE 4	EXPANDED EBS BACKFILL 1.30 NOTE 5	REDUCED EBS IN FILL 0.80 NOTE 6	NOTE 7
2+59	0	4	15	0	0	0	0	0	0	0	0	0	0	0	0
3+00	41	32	15	3	0	27	22	2	0	27	22	3	0	0	2
3+50	50	110	15	5	0	131	27	7	0	158	50	12	0	0	97
4+00	50	197	15	9	0	284	27	13	0	443	77	28	0	0	338
4+50	50	192	15	10	0	360	27	18	0	803	104	50	0	0	649
5+00	50	139	15	6	0	306	27	15	0	1,109	131	69	0	0	909
5+50	50	129	15	10	0	248	27	14	0	1,357	158	87	0	0	1,112
6+00	50	151	15	11	0	260	27	19	0	1,617	185	111	0	0	1,321
6+50	50	197	15	6	0	322	27	16	0	1,939	213	131	0	0	1,596
7+00	50	337	15	24	0	495	27	28	0	2,434	240	165	0	0	2,029
7+50	50	354	15	41	0	640	27	60	0	3,074	267	240	0	0	2,568
8+00	50	272	15	41	0	579	27	75	0	3,653	294	334	0	0	3,026
8+50	50	250	15	20	0	483	27	56	0	4,136	321	404	0	0	3,411
8+92	42	341	15	7	0	465	23	22	0	4,601	344	431	0	0	3,826
				COLUMN TOTALS		4,601	344	345	0						

OLD 29 DR (REMOVAL)
STA 5+68 - STA 9+37

STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)					MASS ORDINATE
		CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.25 NOTE 4	EXPANDED EBS BACKFILL 1.30 NOTE 5	REDUCED EBS IN FILL 0.80 NOTE 6	NOTE 7
5+68	0	200	15	11	0	0	0	0	0	0	0	0	0	0	0
6+00	32	78	15	29	0	165	17	24	0	165	17	30	0	0	118
6+50	50	63	15	34	0	131	27	58	0	295	45	103	0	0	148
7+00	50	56	15	30	0	110	27	59	0	405	72	177	0	0	157
7+50	50	61	15	123	0	108	27	142	0	514	99	354	0	0	61
8+00	50	53	15	145	0	106	27	248	0	619	126	664	0	0	-171
8+50	50	74	15	3	0	118	27	137	0	737	153	835	0	0	-251
9+00	50	74	15	5	0	137	27	7	0	874	180	844	0	0	-151
9+37	37	71	15	0	0	100	20	3	0	974	200	849	0	0	-75
				COLUMN TOTALS		974	200	679	0						

OLD 29 DR (TEMPORARY CONNECTION)
STA 11+75 - STA 13+64

STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)					MASS ORDINATE
		CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.25 NOTE 4	EXPANDED EBS BACKFILL 1.30 NOTE 5	REDUCED EBS IN FILL 0.80 NOTE 6	NOTE 7
11+75	0	60	15	0	0	0	0	0	0	0	0	0	0	0	0
12+00	25	54	15	0	0	52	14	0	0	52	14	0	0	0	39
12+50	50	50	15	0	0	95	27	0	0	148	41	0	0	0	107
13+00	50	48	15	1	0	91	27	1	0	239	68	1	0	0	169
13+50	50	44	15	4	0	86	27	7	0	325	95	10	0	0	219
13+64	14	81	15	0	0	32	8	0	0	357	103	11	0	0	243
				COLUMN TOTALS		357	103	8	0						

TEMPORARY STREAM DIVERSION (ST. AUGUSTINE RD)
STA 0+00 - STA 14+55

STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)					MASS ORDINATE
		CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.25 NOTE 4	EXPANDED EBS BACKFILL 1.30 NOTE 5	REDUCED EBS IN FILL 0.80 NOTE 6	NOTE 7
0+00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0+25	25	46	0	0	0	21	0	0	0	21	0	0	0	0	21
0+50	25	46	0	5	0	42	0	2	0	64	0	3	0	0	61
0+75	25	49	0	2	0	44	0	3	0	107	0	7	0	0	100
1+00	25	55	0	1	0	48	0	1	0	156	0	9	0	0	147
1+25	25	62	0	0	0	54	0	0	0	210	0	9	0	0	201
1+50	25	87	0	0	0	69	0	0	0	279	0	9	0	0	270
1+75	25	45	0	0	0	61	0	0	0	340	0	9	0	0	330
2+00	25	7	0	0	0	24	0	0	0	364	0	9	0	0	355
2+04	4	0	0	0	0	1	0	0	0	364	0	9	0	0	355
SECTION 1 SUBTOTALS						364	0	7	0						
4+26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4+50	24	21	0	0	0	10	0	0	0	10	0	0	0	0	10
4+75	25	34	0	0	0	26	0	0	0	35	0	0	0	0	35
5+00	25	28	0	5	0	29	0	2	0	64	0	3	0	0	62
5+25	25	30	0	13	0	27	0	8	0	91	0	13	0	0	78
5+50	25	30	0	12	0	28	0	12	0	119	0	28	0	0	92
5+75	25	30	0	11	0	28	0	11	0	147	0	41	0	0	106
6+00	25	29	0	12	0	28	0	11	0	175	0	54	0	0	120
6+25	25	29	0	12	0	27	0	11	0	202	0	68	0	0	133
6+50	25	28	0	13	0	26	0	11	0	228	0	83	0	0	145
6+75	25	27	0	13	0	26	0	12	0	253	0	98	0	0	156
7+00	25	27	0	14	0	25	0	12	0	278	0	113	0	0	165
7+25	25	26	0	14	0	24	0	13	0	303	0	129	0	0	173
7+50	25	24	0	15	0	23	0	14	0	326	0	146	0	0	180
7+75	25	23	0	16	0	22	0	15	0	348	0	164	0	0	183
8+00	25	23	0	18	0	21	0	16	0	369	0	184	0	0	185
8+25	25	25	0	16	0	22	0	16	0	392	0	204	0	0	188
8+50	25	24	0	18	0	23	0	16	0	414	0	223	0	0	191
8+75	25	24	0	15	0	22	0	15	0	437	0	242	0	0	195
9+00	25	27	0	0	0	24	0	7	0	460	0	250	0	0	210
9+17	17	0	0	0	0	9	0	0	0	469	0	250	0	0	219
SECTION 2 SUBTOTALS						469	0	200	0						
10+40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10+50	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10+75	25	11	0	0	0	5	0	0	0	5	0	0	0	0	5
11+00	25	26	0	25	0	17	0	12	0	22	0	15	0	0	8
11+25	25	37	5	26	0	29	2	24	0	51	2	44	0	0	5
11+50	25	37	5	23	0	34	5	22	0	85	7	72	0	0	6
11+75	25	35	5	22	0	33	5	21	0	118	12	98	0	0	9
12+00	25	33	5	23	0	31	5	21	0	150	16	124	0	0	9
12+25	25	30	5	24	0	29	5	22	0	178	21	151	0	0	6
12+50	25	24	5	25	0	25	5	23	0	204	25	180	0	0	-2
12+75	25	27	5	19	0	24	5	20	0	227	30	205	0	0	-8
13+00	25	38	10	17	0	30	7	16	0	258	37	226	0	0	-5
13+25	25	49	10	17	0	40	9	16	0	298	46	246	0	0	6
13+50	25	57	10	27	0	49	9	20	0	347	56	271	0	0	21
13+75	25	59	10	29	0	54	9	26	0	401	65	303	0	0	33
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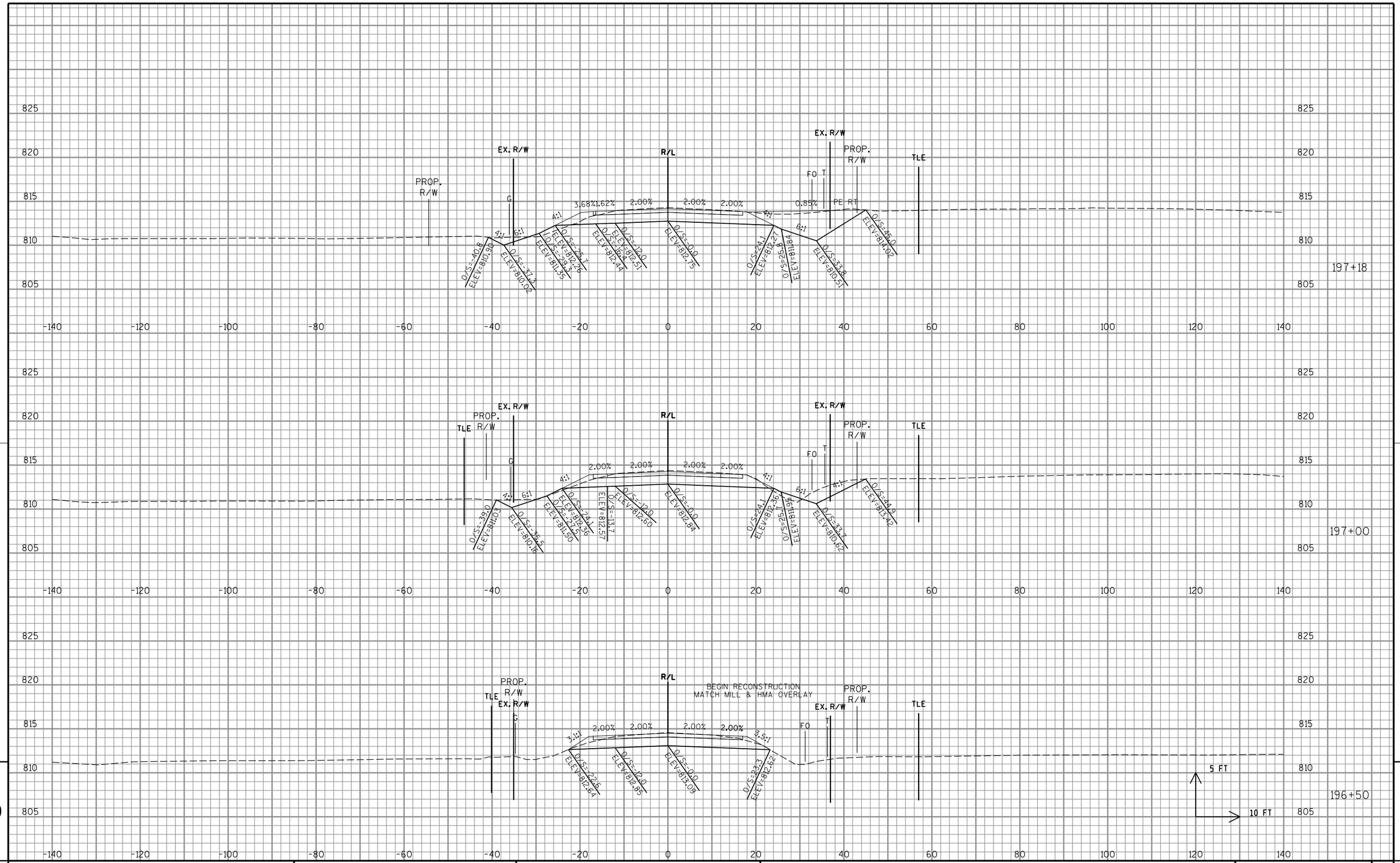
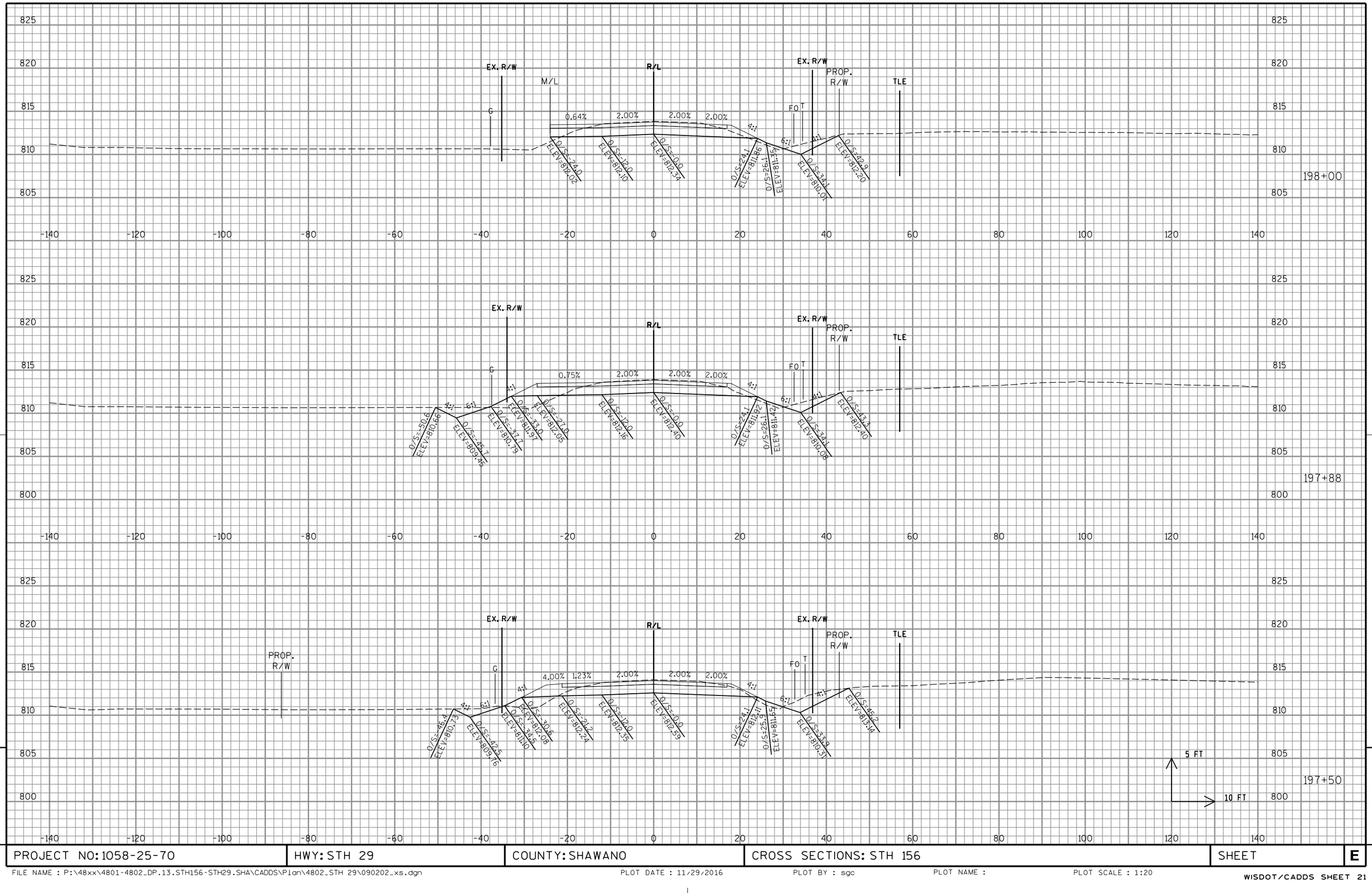
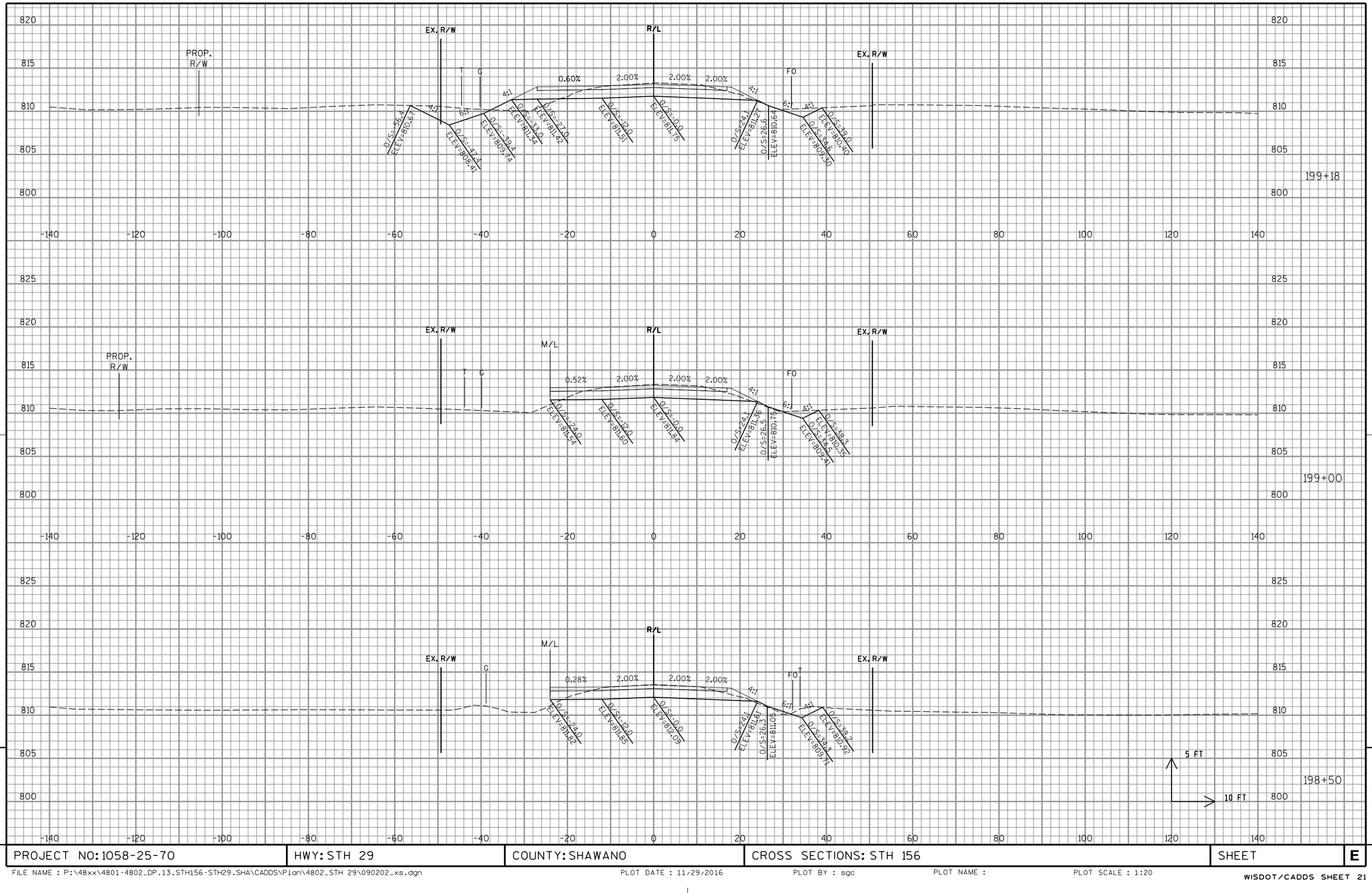
14+25	25	54	10	3	0	51	9	13	0	505	83	350	0	0	72
14+50	25	0	0	0	0	25	5	2	0	530	88	352	0	0	90
14+55	5	0	0	0	0	0	0	0	0	530	88	352	0	0	90
SECTION 3 SUBTOTALS						530	88	281	0						
COLUMN TOTALS						1,364	88	489	0						



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 156	SHEET	E



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 156	SHEET	E



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 156	SHEET	E

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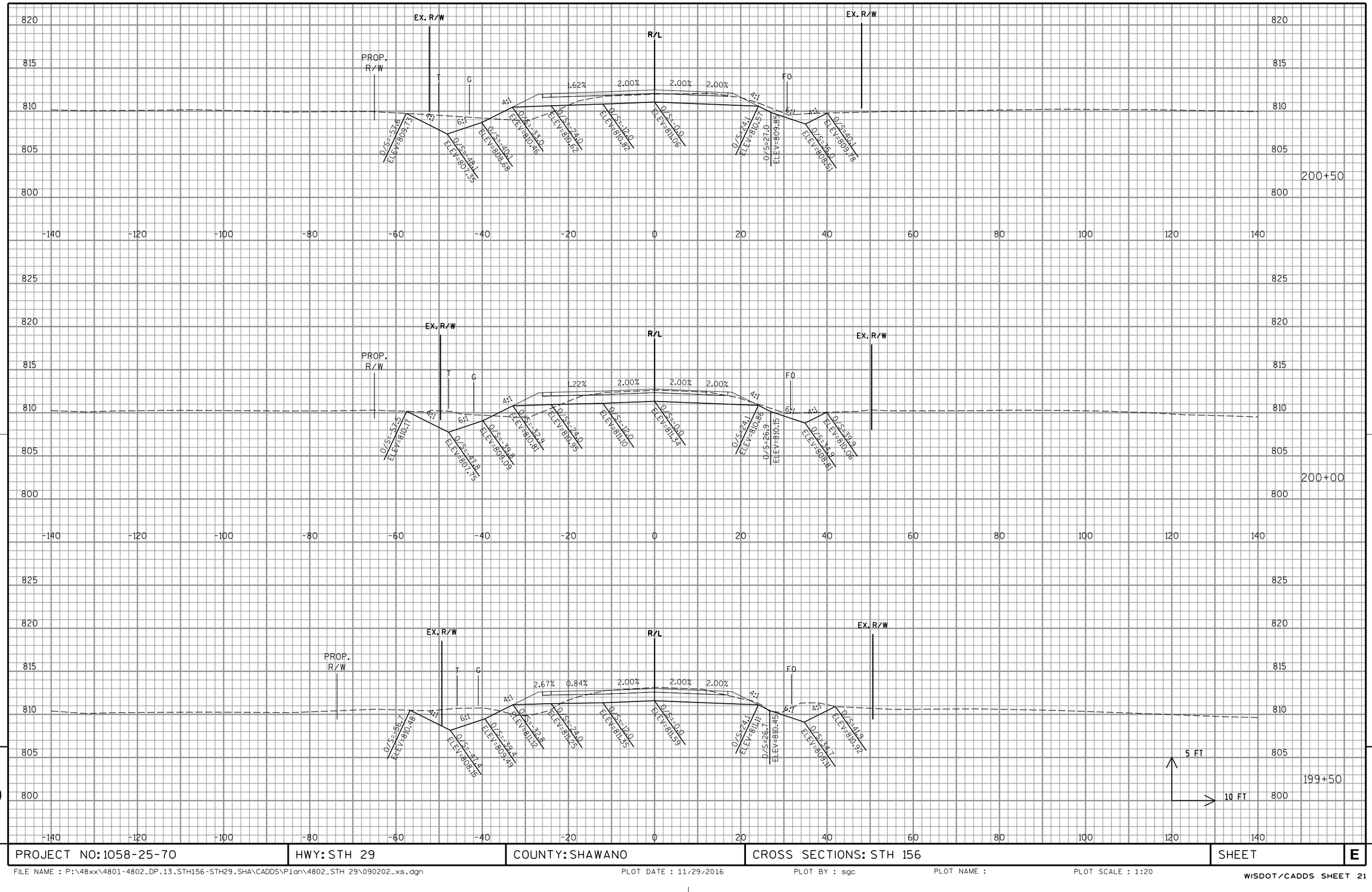
WISDOT/CADDS SHEET 21



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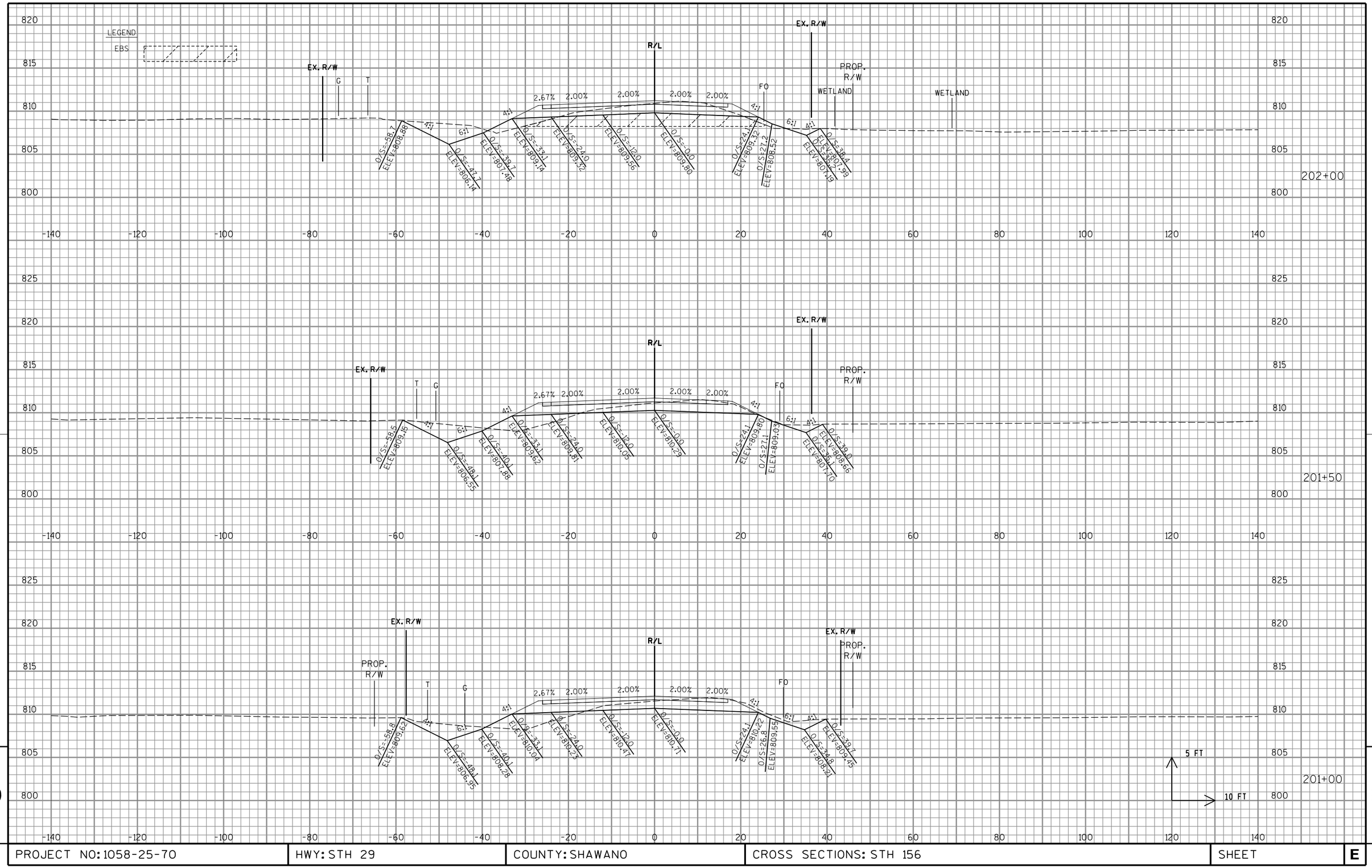
WISDOT/CADDS SHEET 21



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 156	SHEET	E

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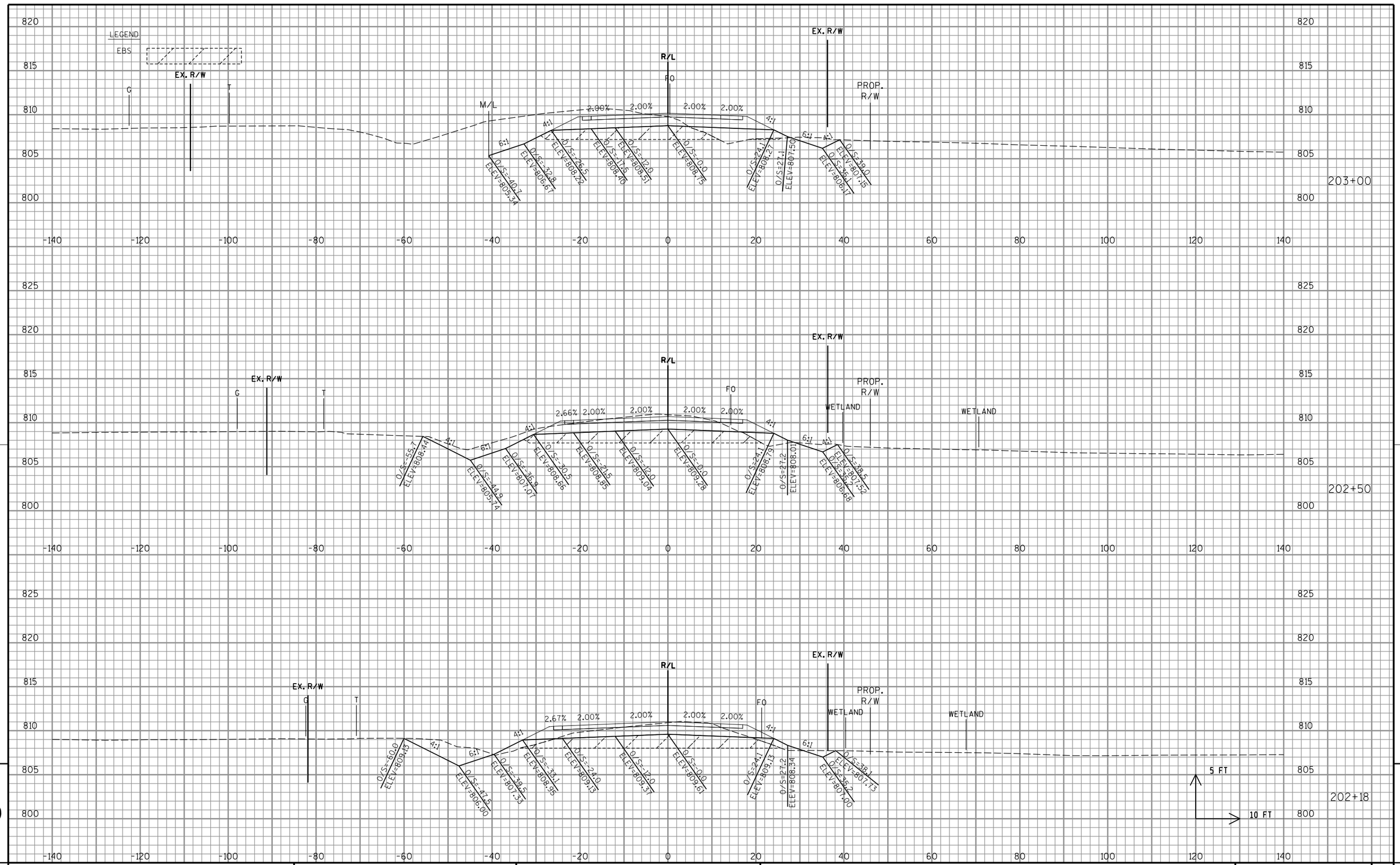
WISDOT/CADDS SHEET 21



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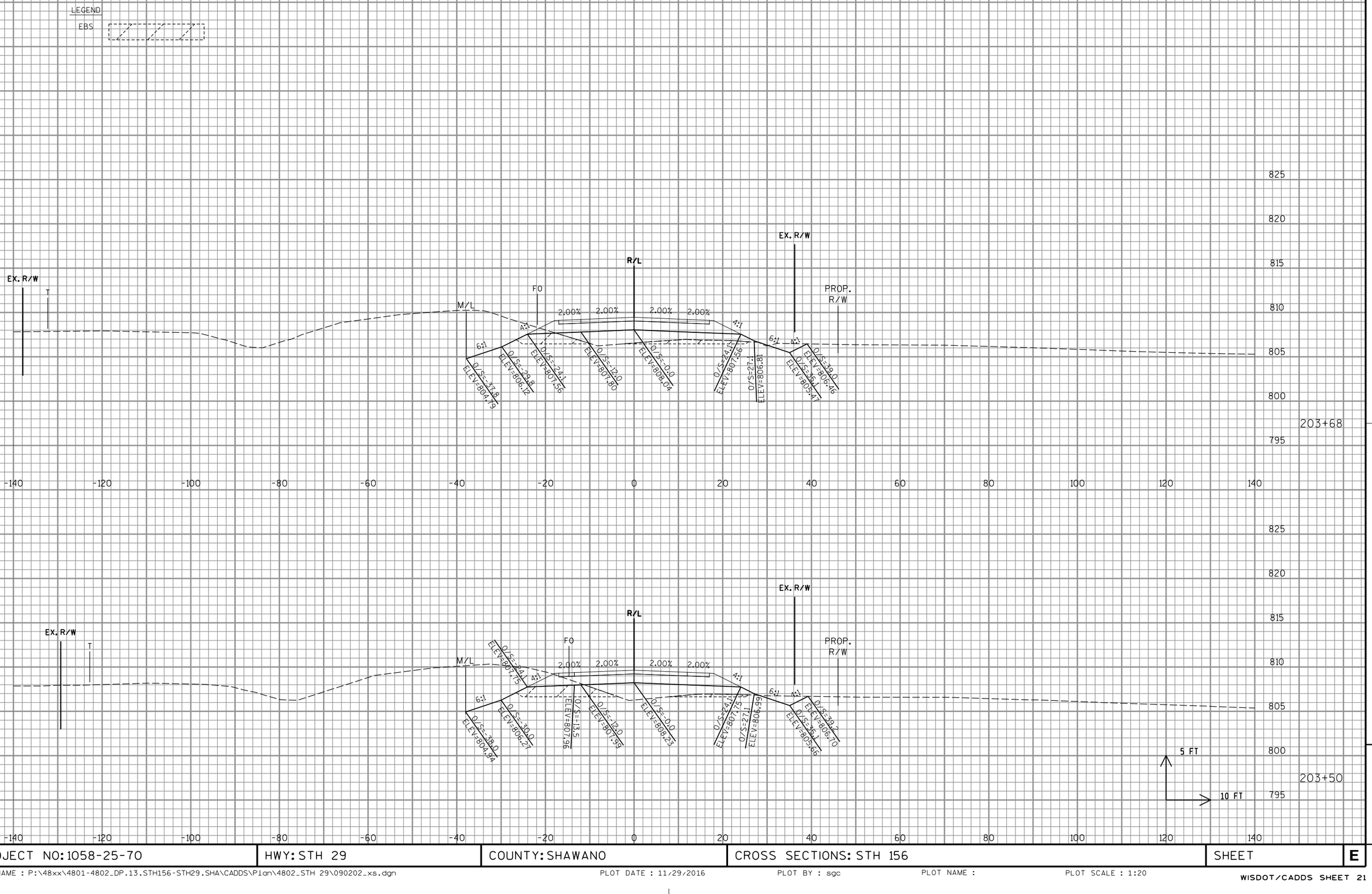
WISDOT/CADDS SHEET 21

LEGEND

EBS



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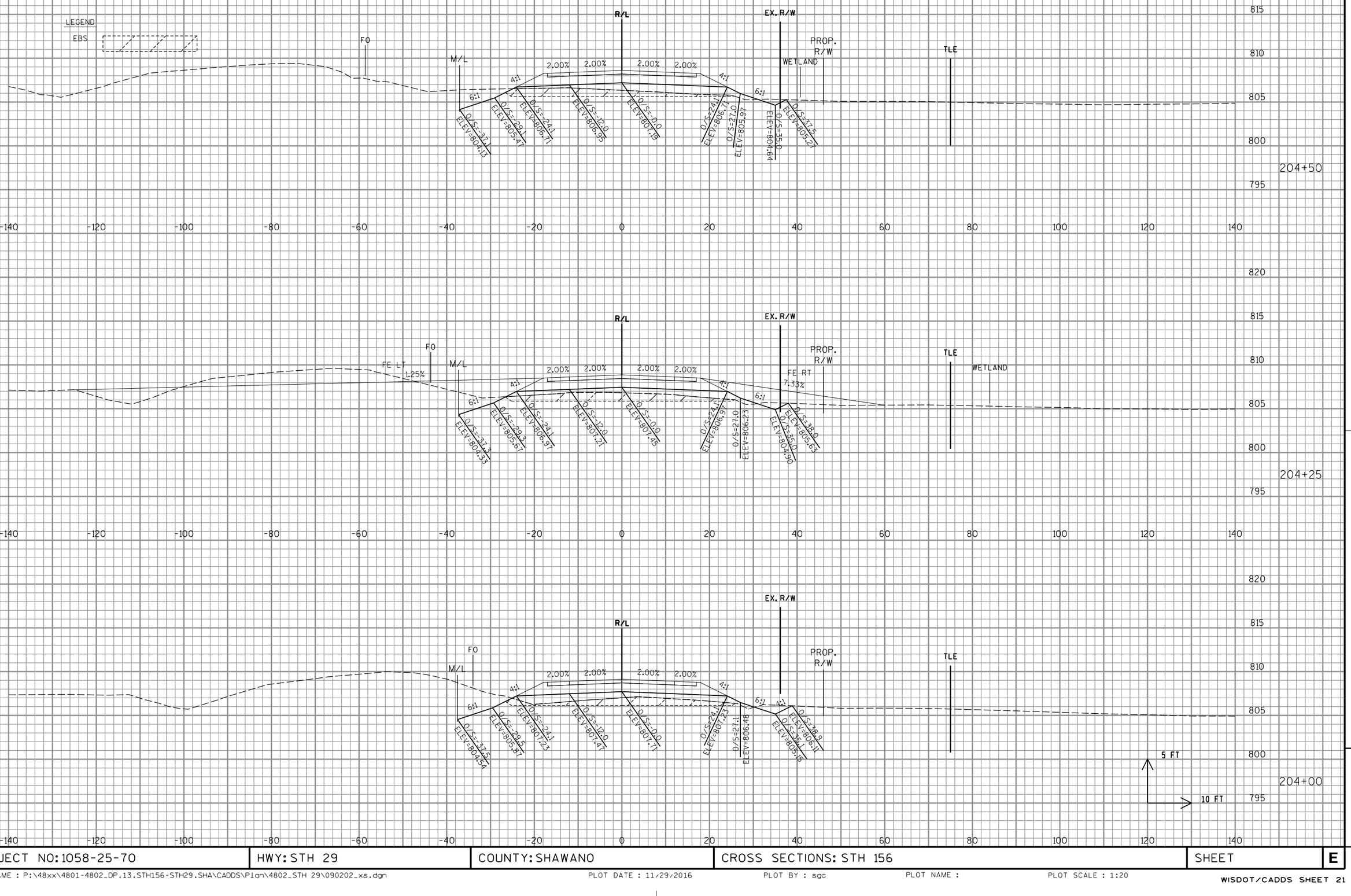
LEGEND

EBS



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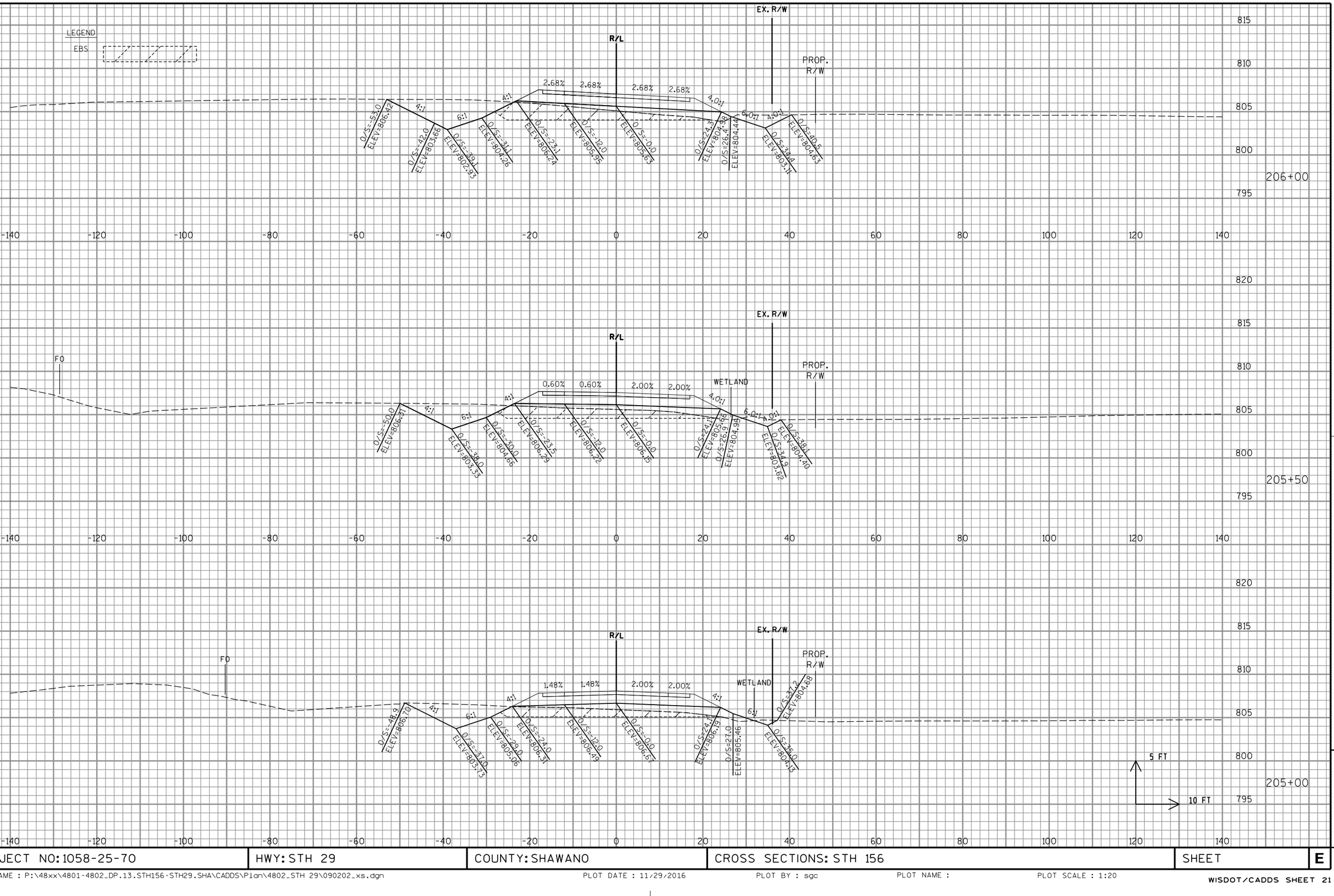
WISDOT/CADDS SHEET 21

LEGEND

EBS



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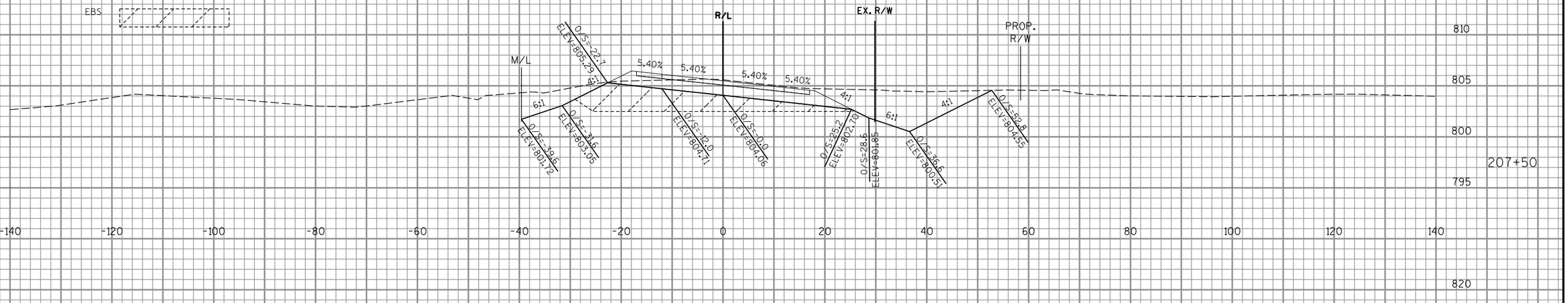
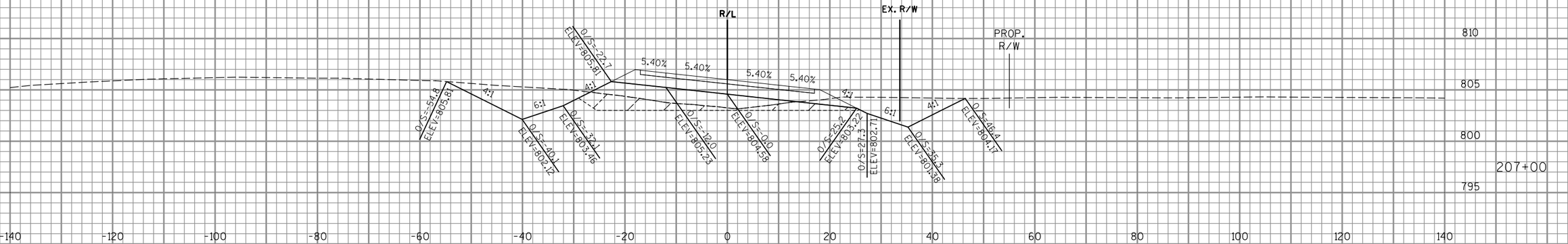
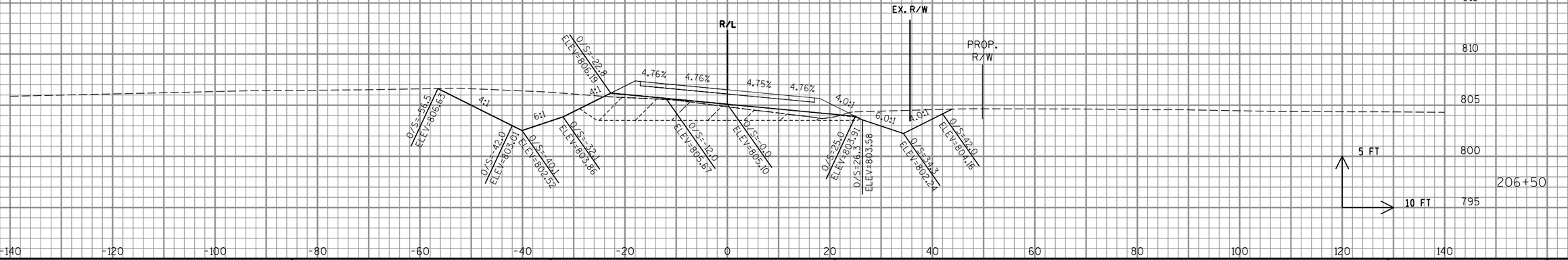
WISDOT/CADDS SHEET 21

LEGEND

EBS







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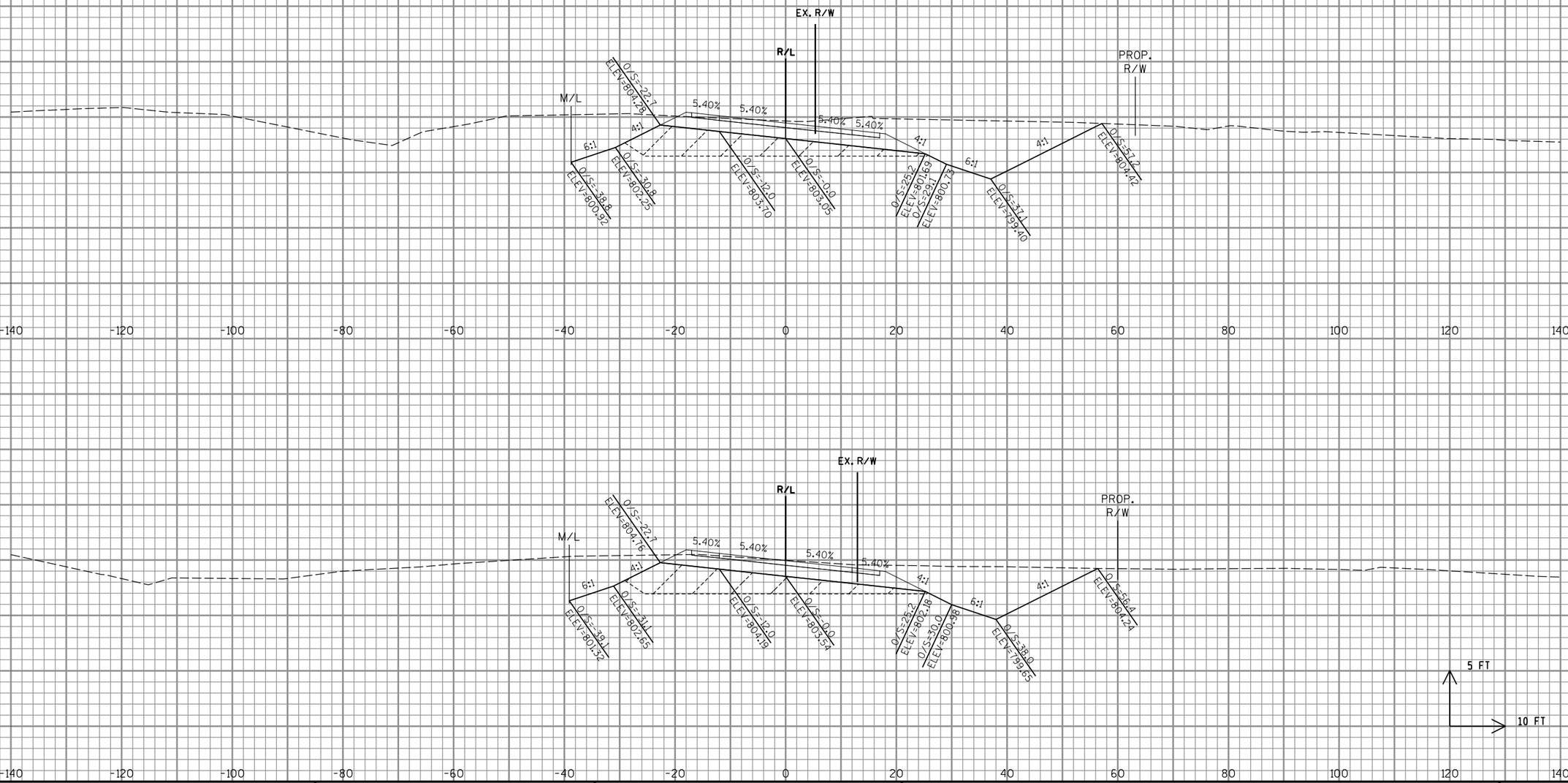
PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 156/OLD 29 DR	SHEET	E

LEGEND

EBS



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PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 156/OLD 29 DR	SHEET	E

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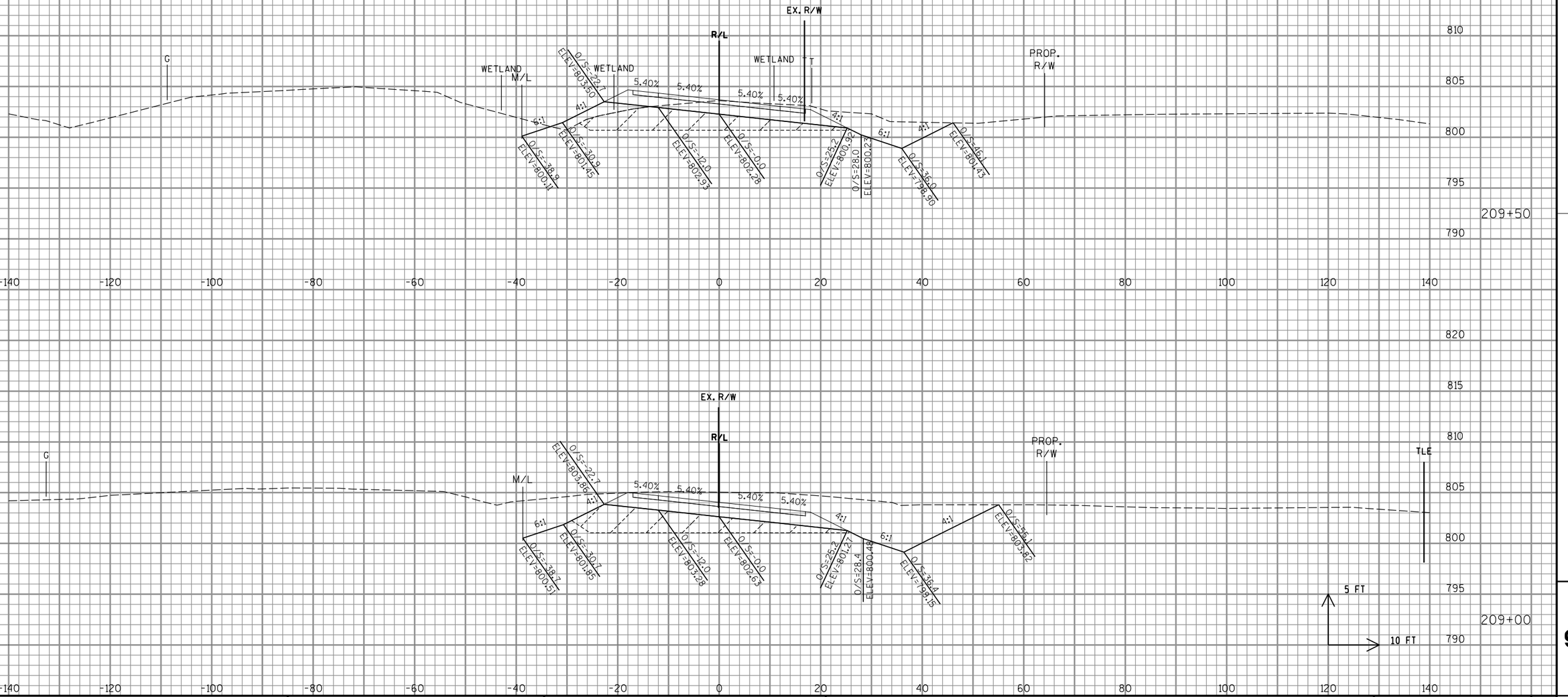
WISDOT/CADDS SHEET 21

LEGEND

EBS



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 156/OLD 29 DR	SHEET	E

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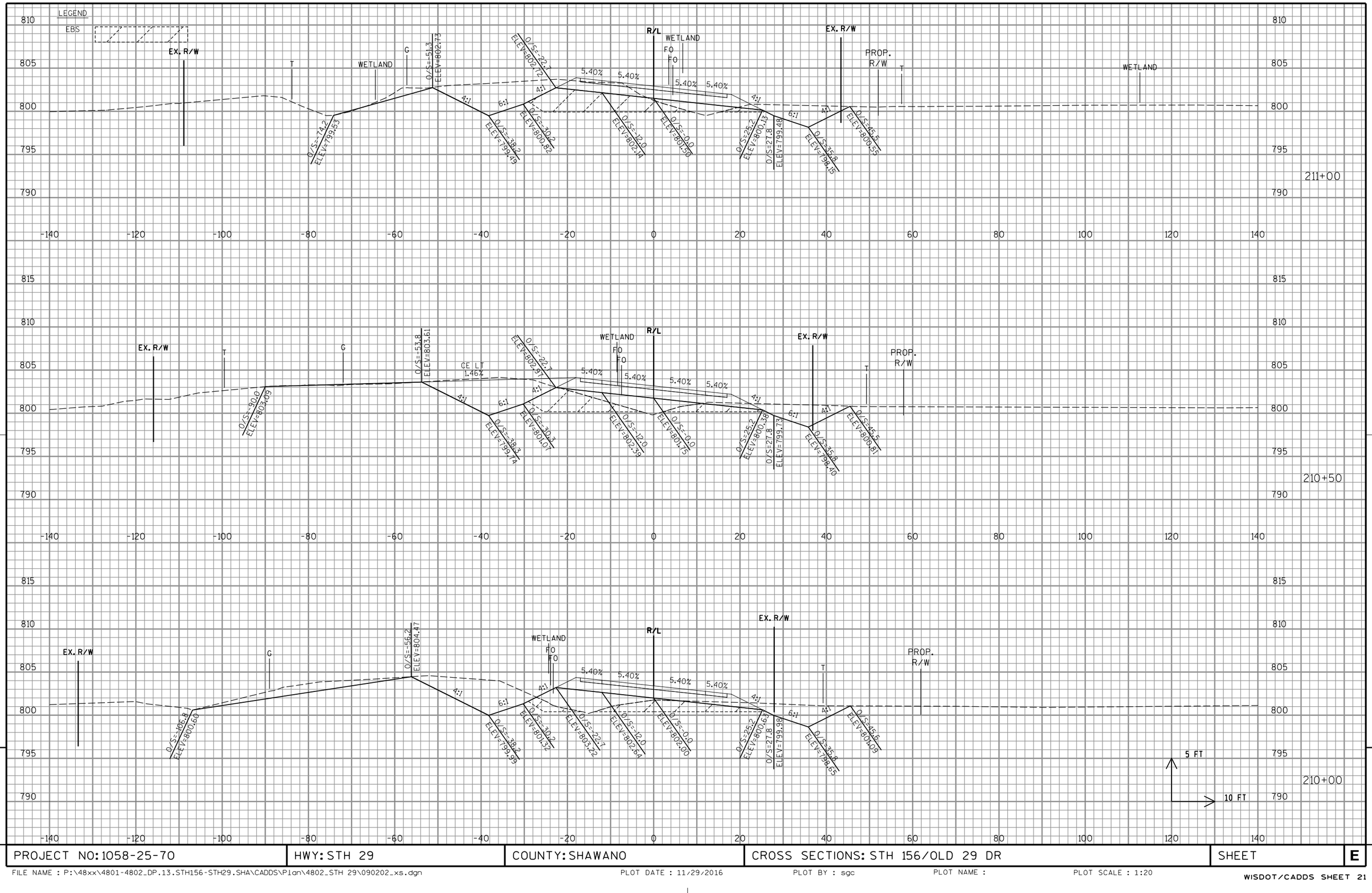
WISDOT/CADDS SHEET 21



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 156/OLD 29 DR	SHEET E

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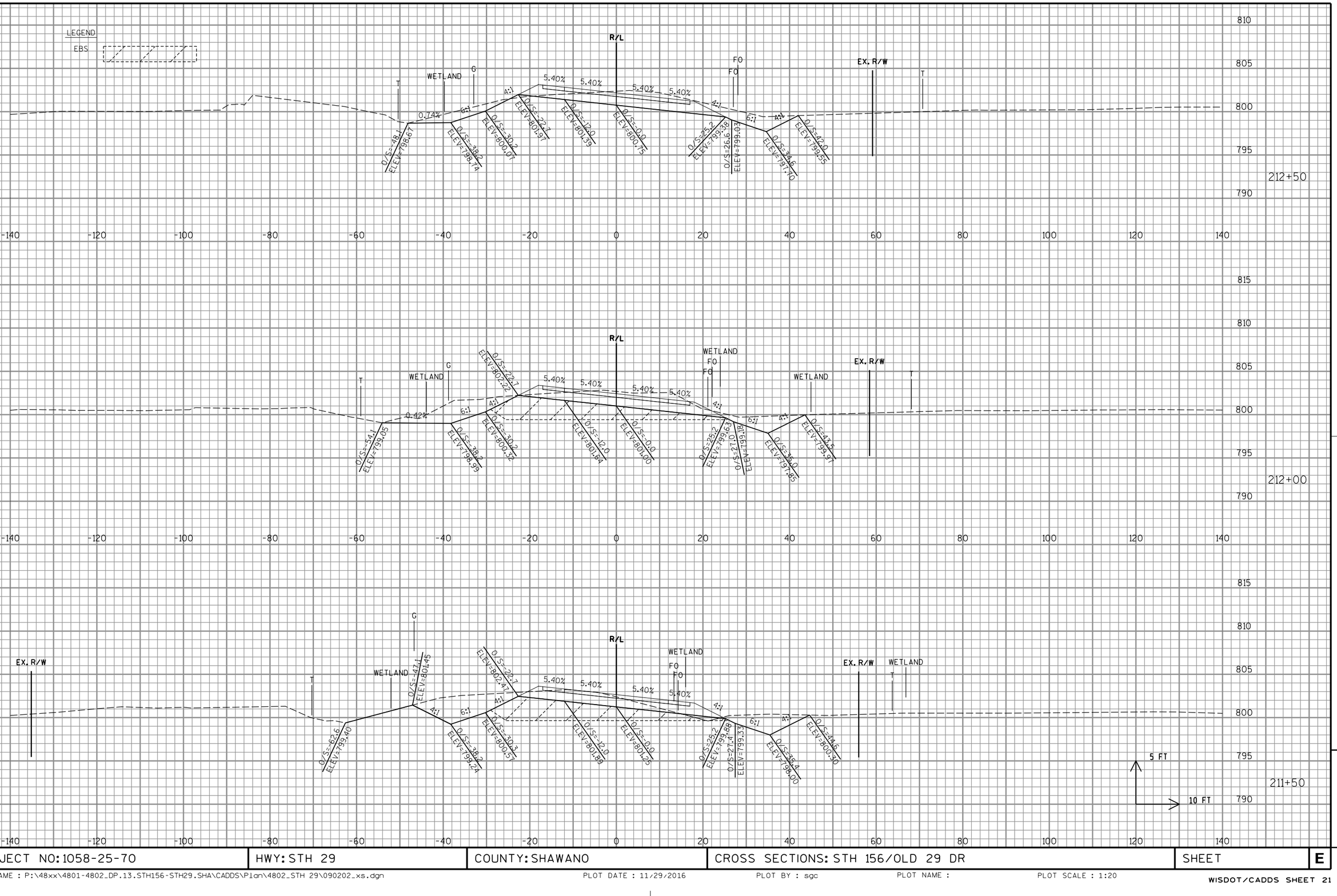
WISDOT/CADDS SHEET 21

LEGEND

EBS



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 156/OLD 29 DR	SHEET	E

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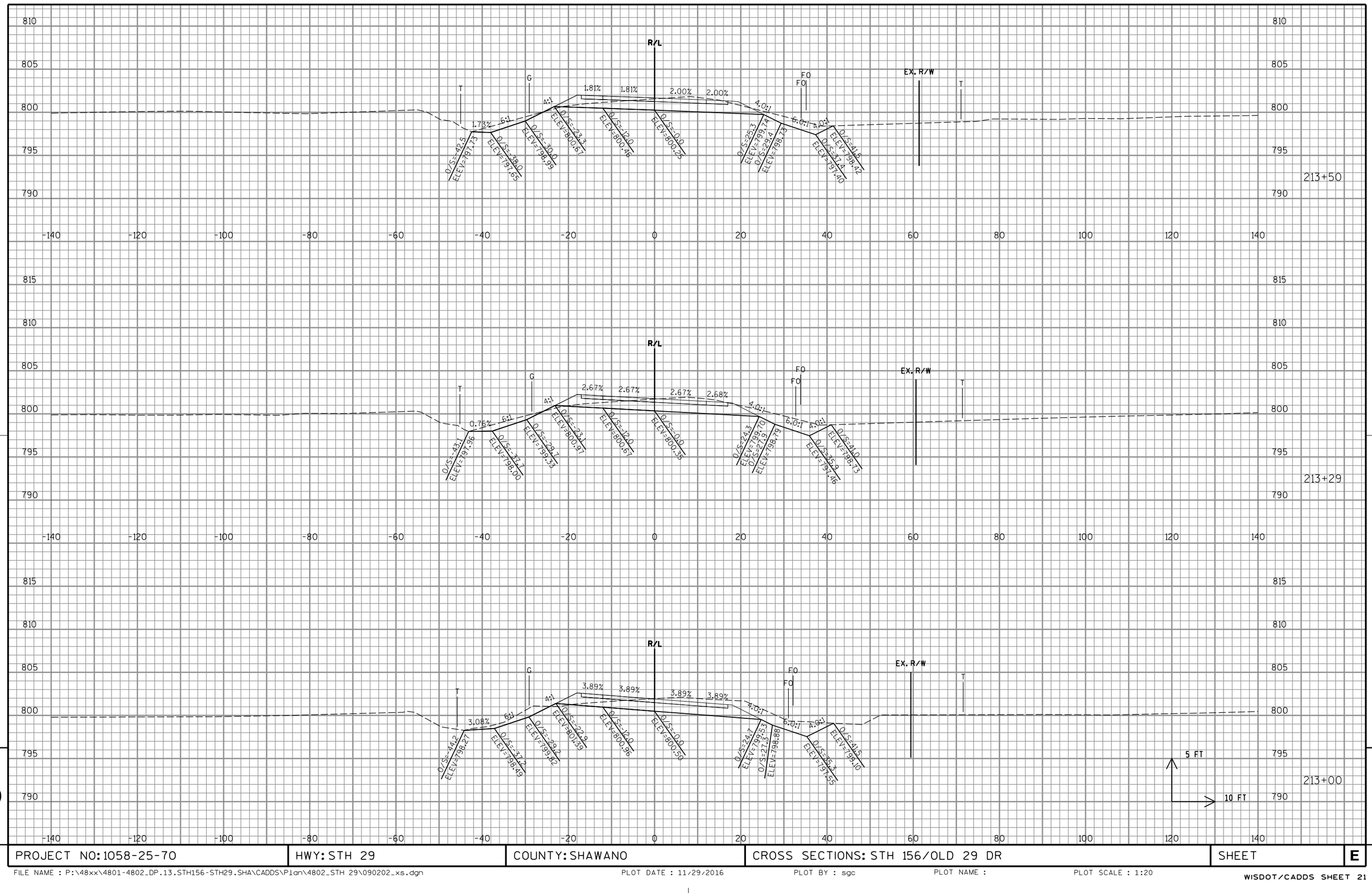
WISDOT/CADDS SHEET 21



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 156/OLD 29 DR	SHEET	E

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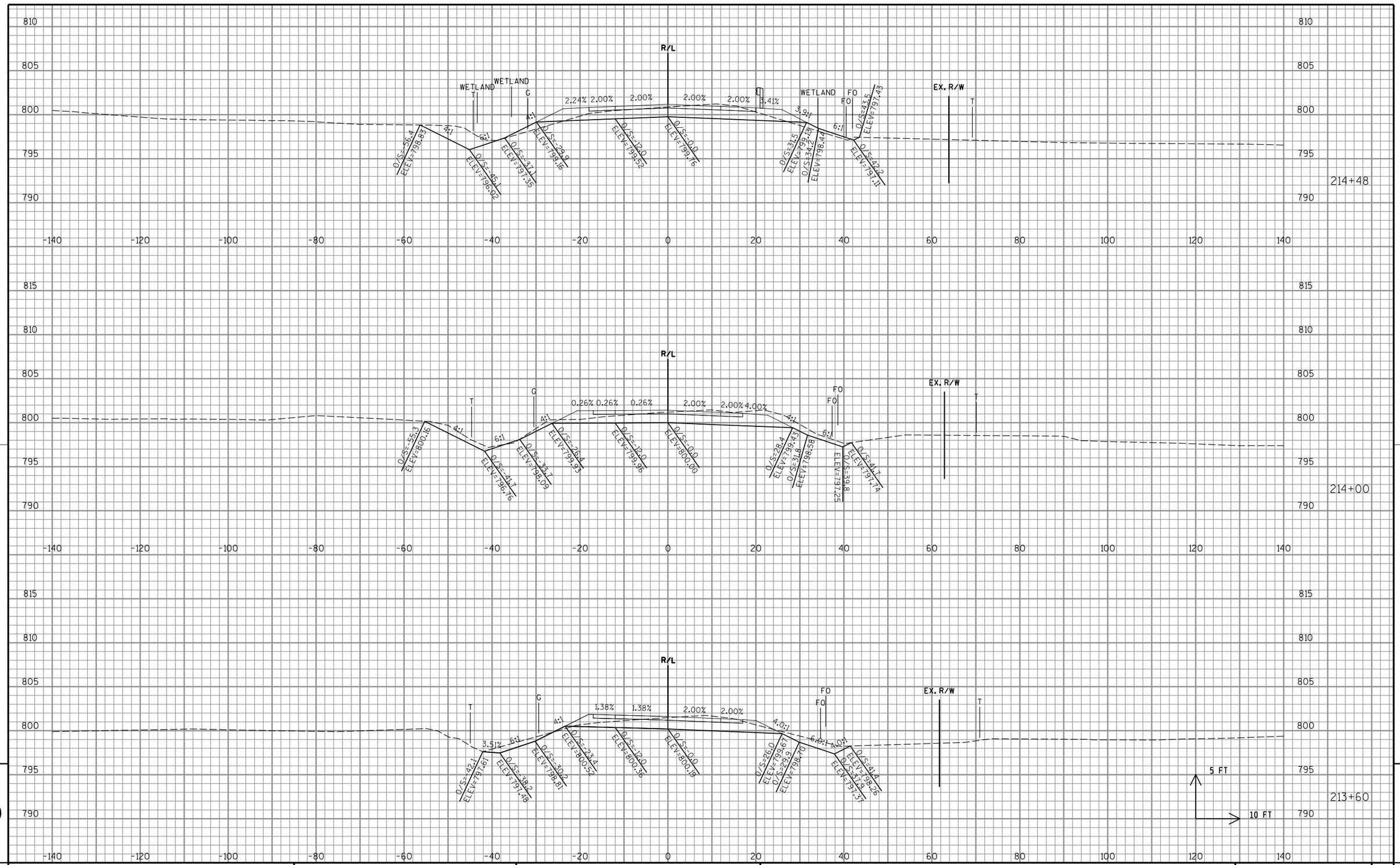

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PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 156/OLD 29 DR	SHEET	E

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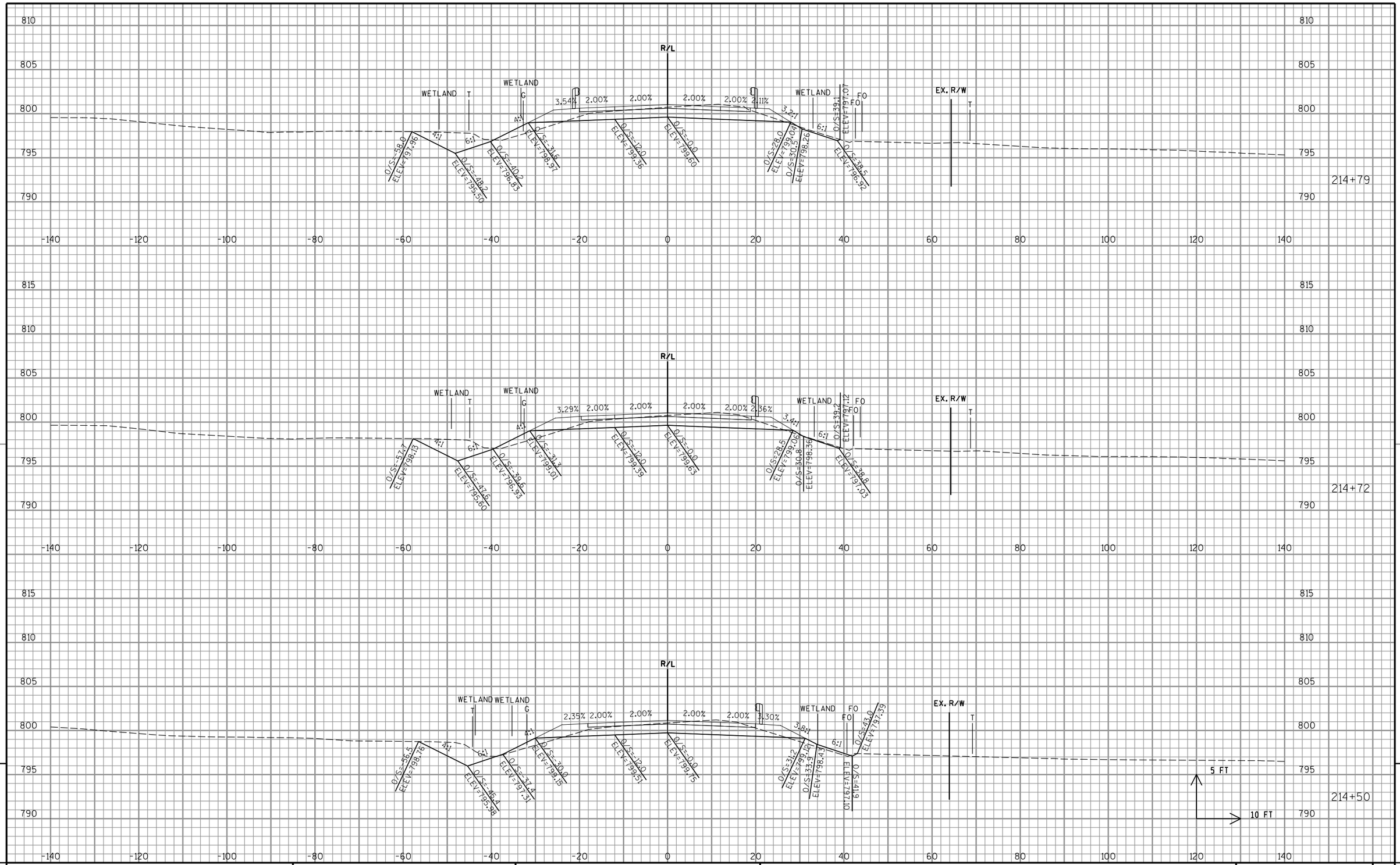
WISDOT/CADDS SHEET 21



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 156/OLD 29 DR	SHEET	E

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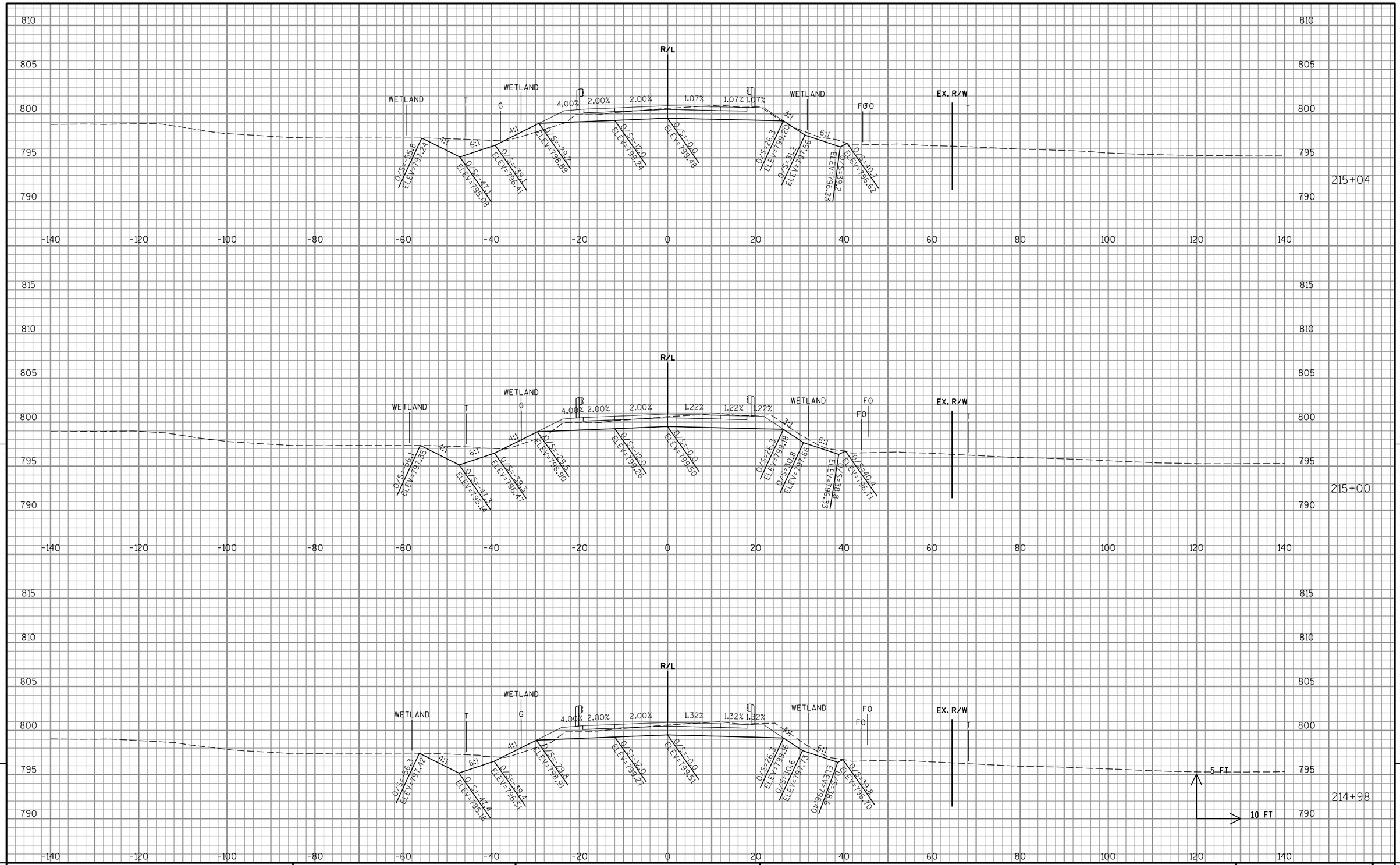
WISDOT/CADDS SHEET 21



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PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 156/OLD 29 DR	SHEET	E

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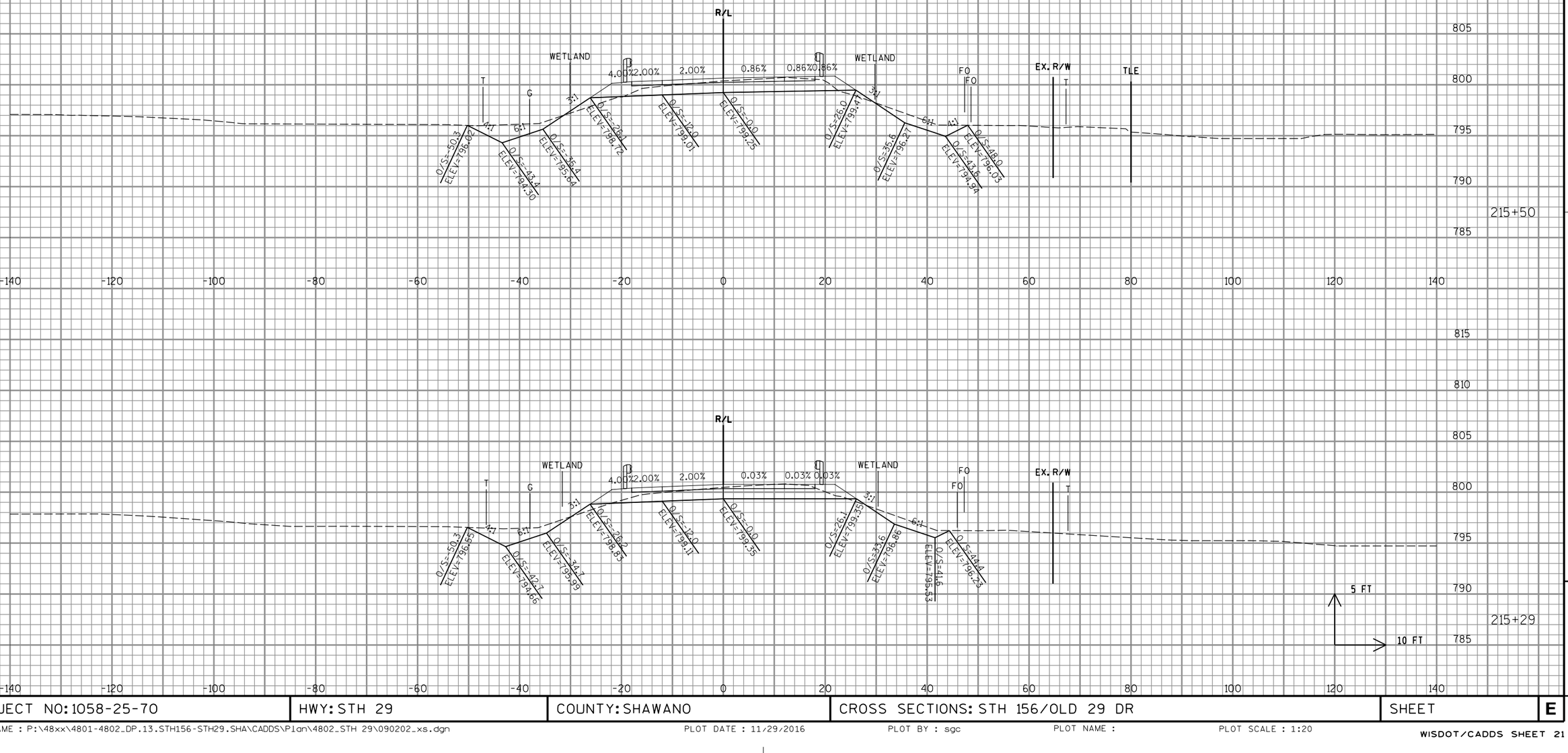

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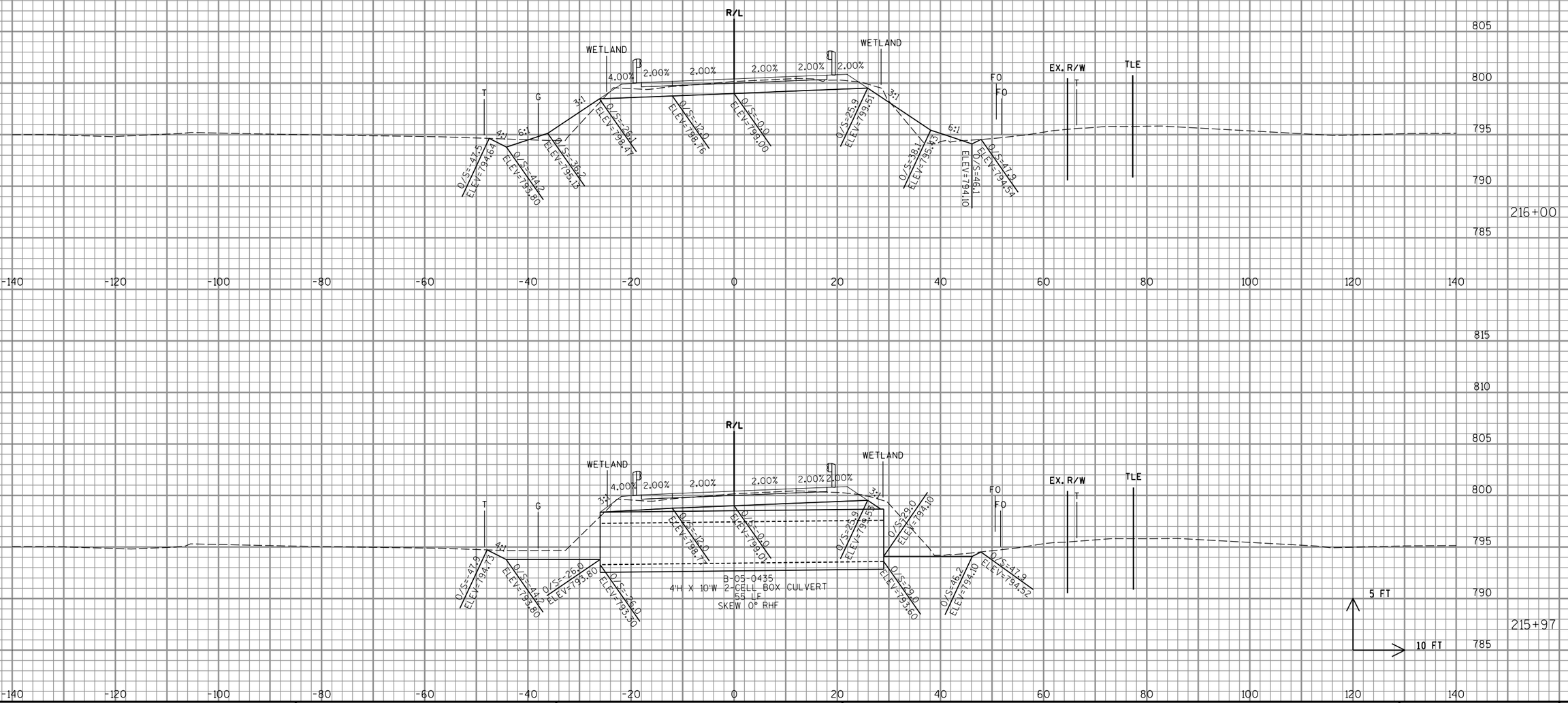

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PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 156/OLD 29 DR	SHEET	E

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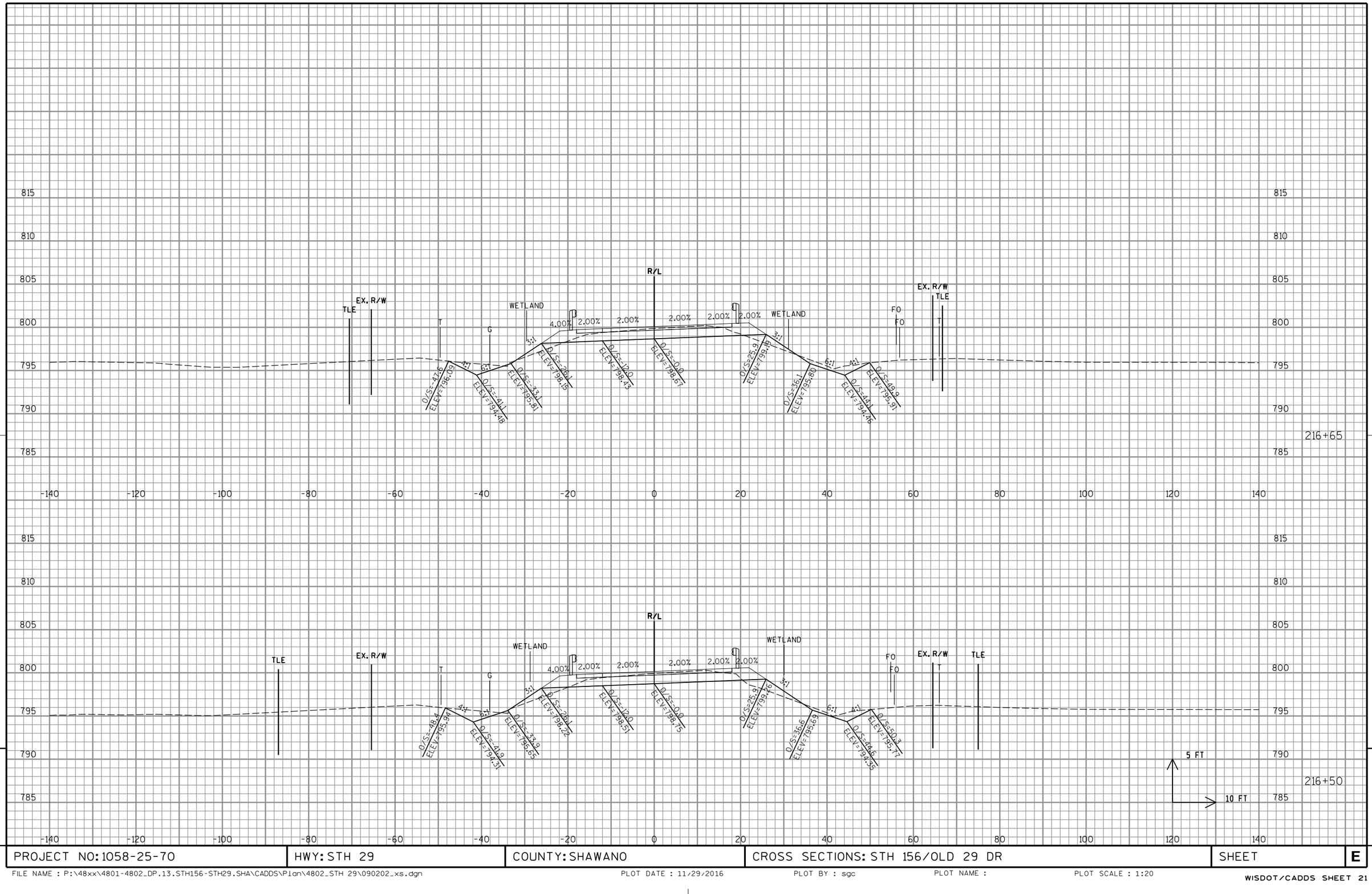
WISDOT/CADDS SHEET 21



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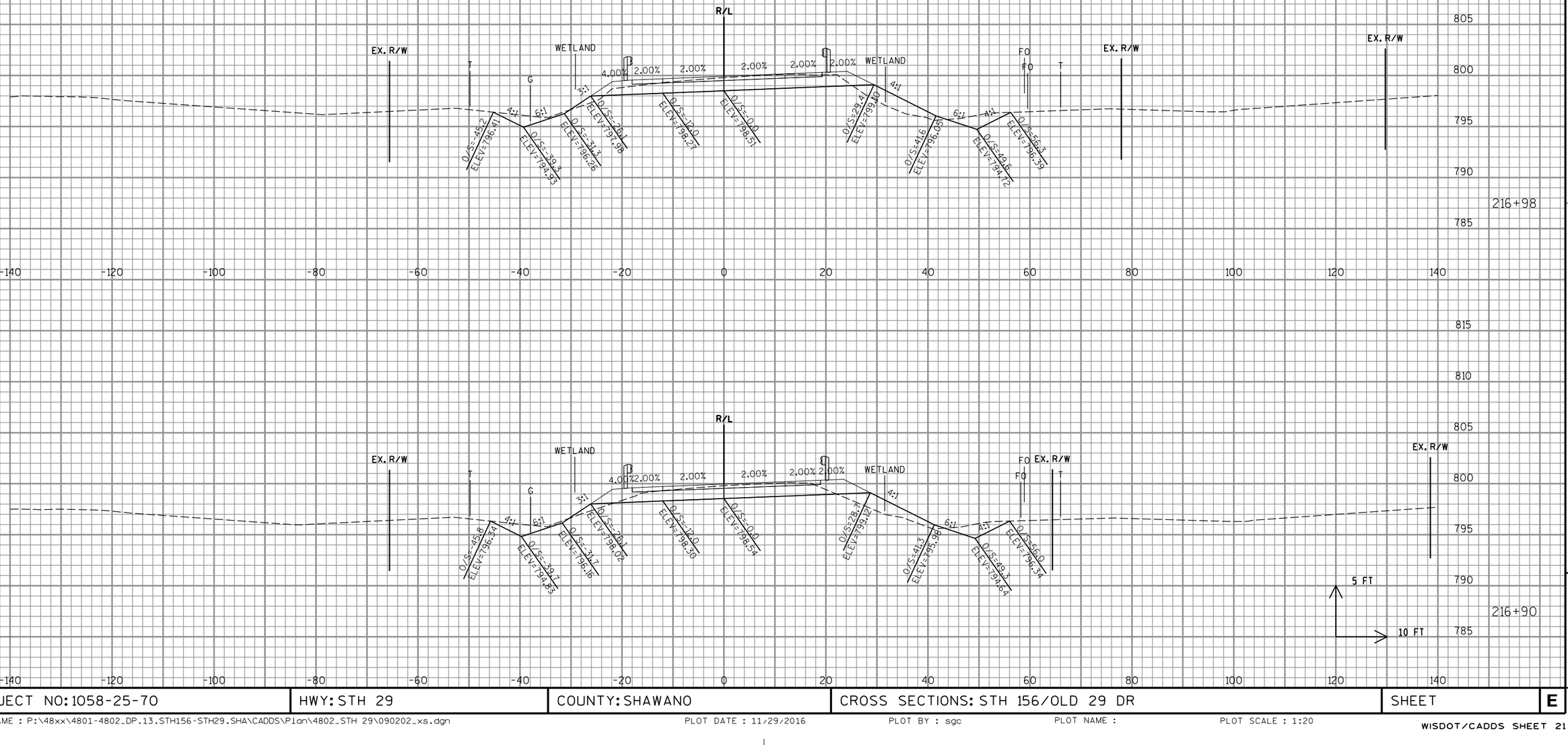

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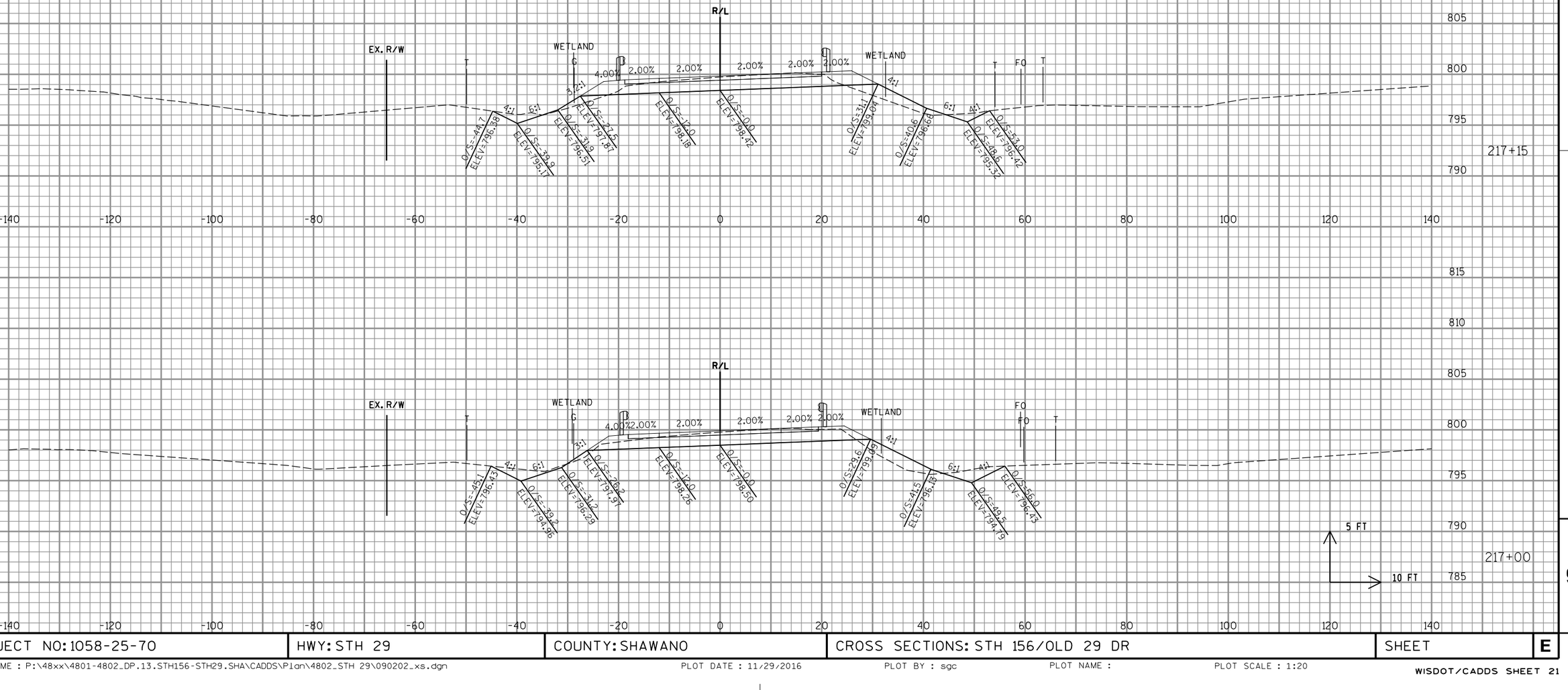

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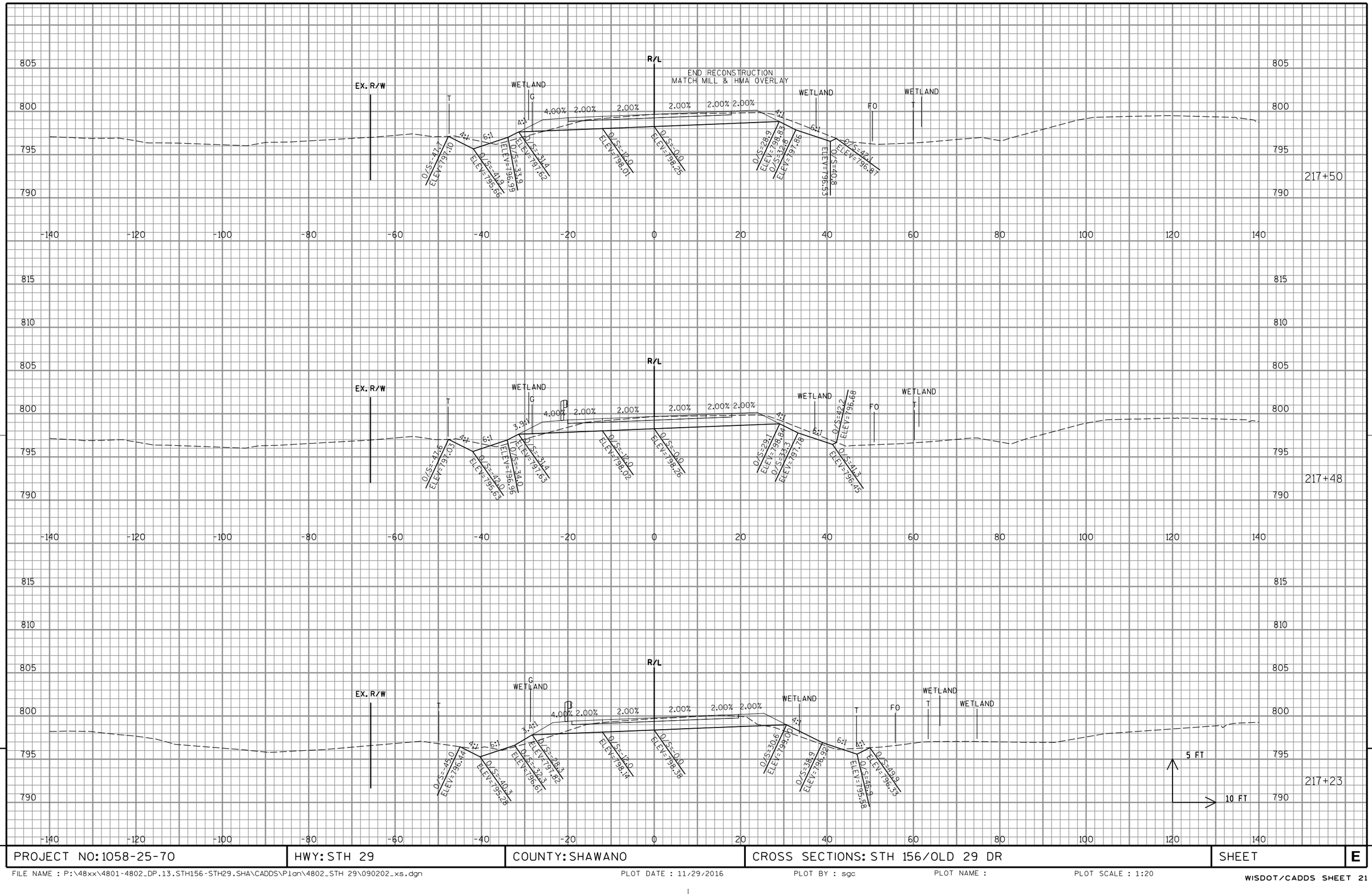

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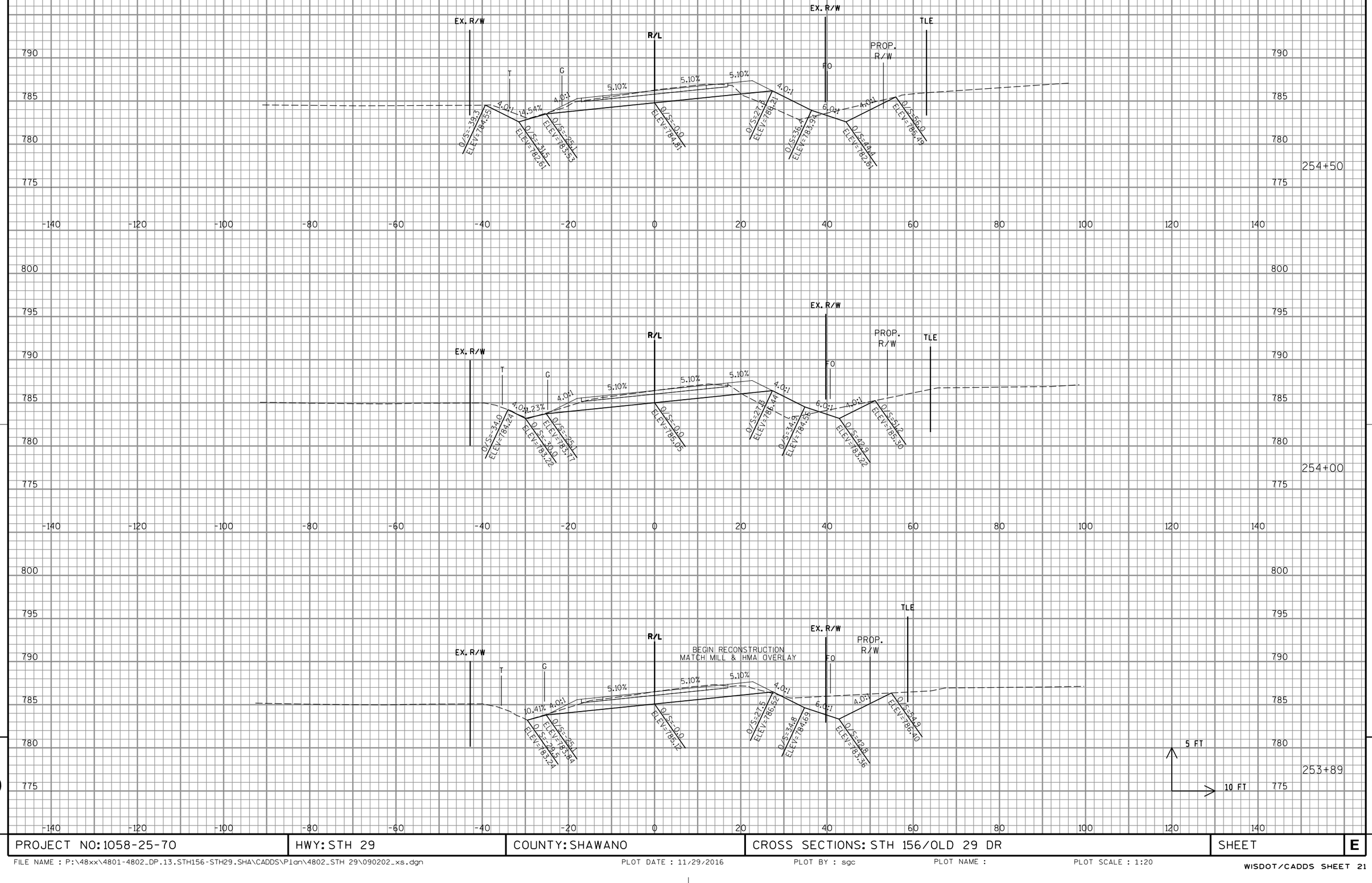

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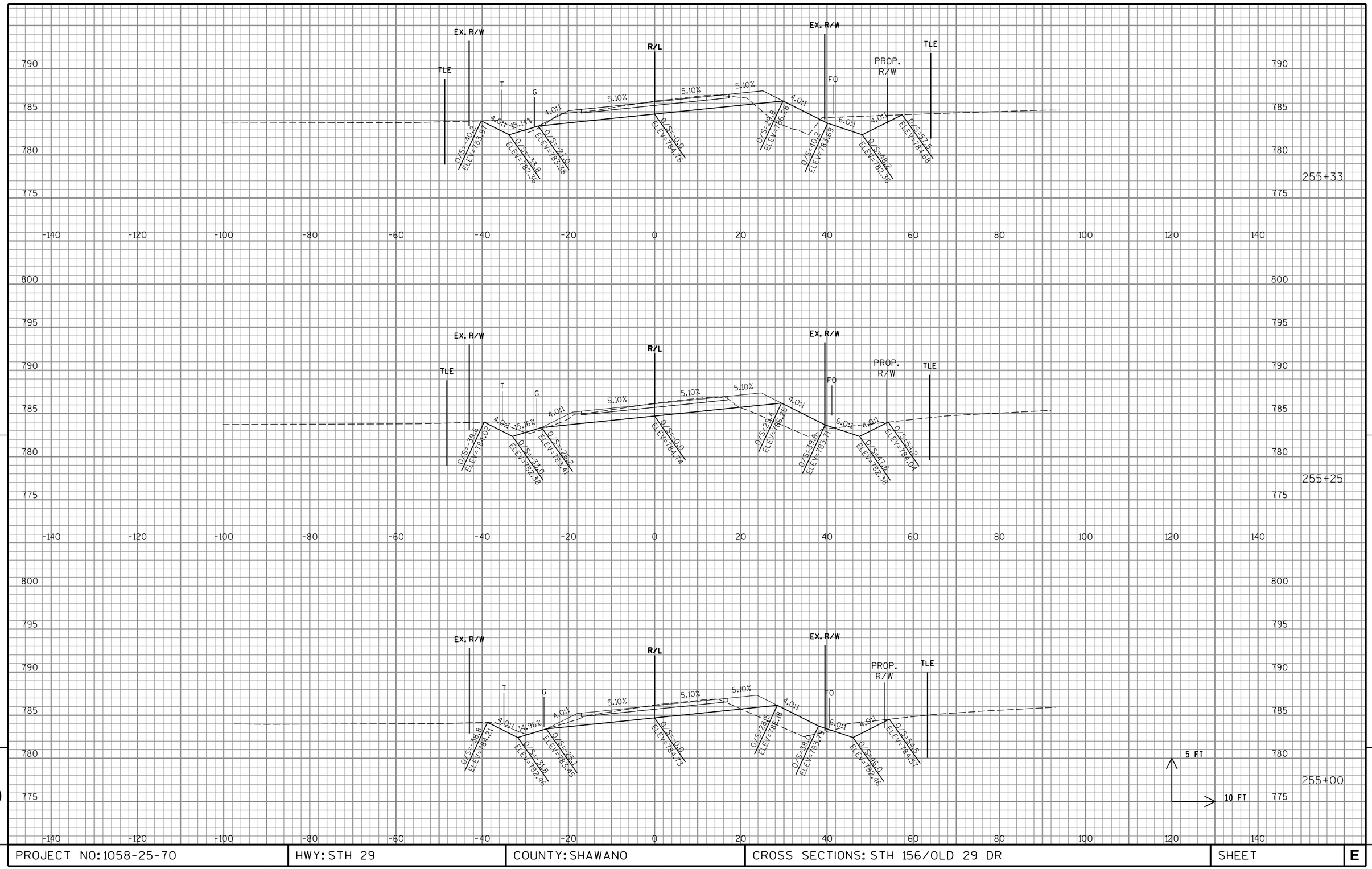

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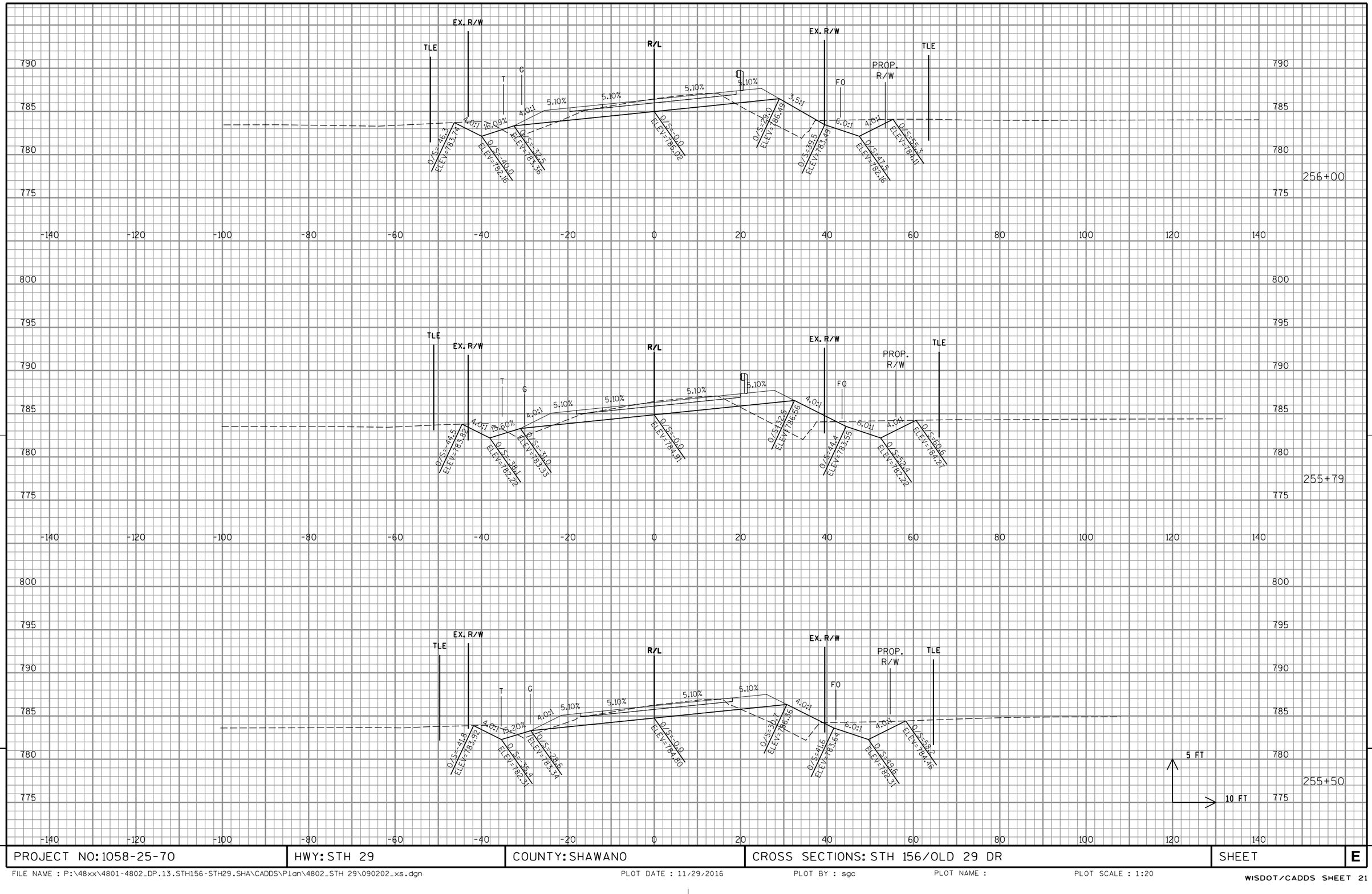
WISDOT/CADDS SHEET 21



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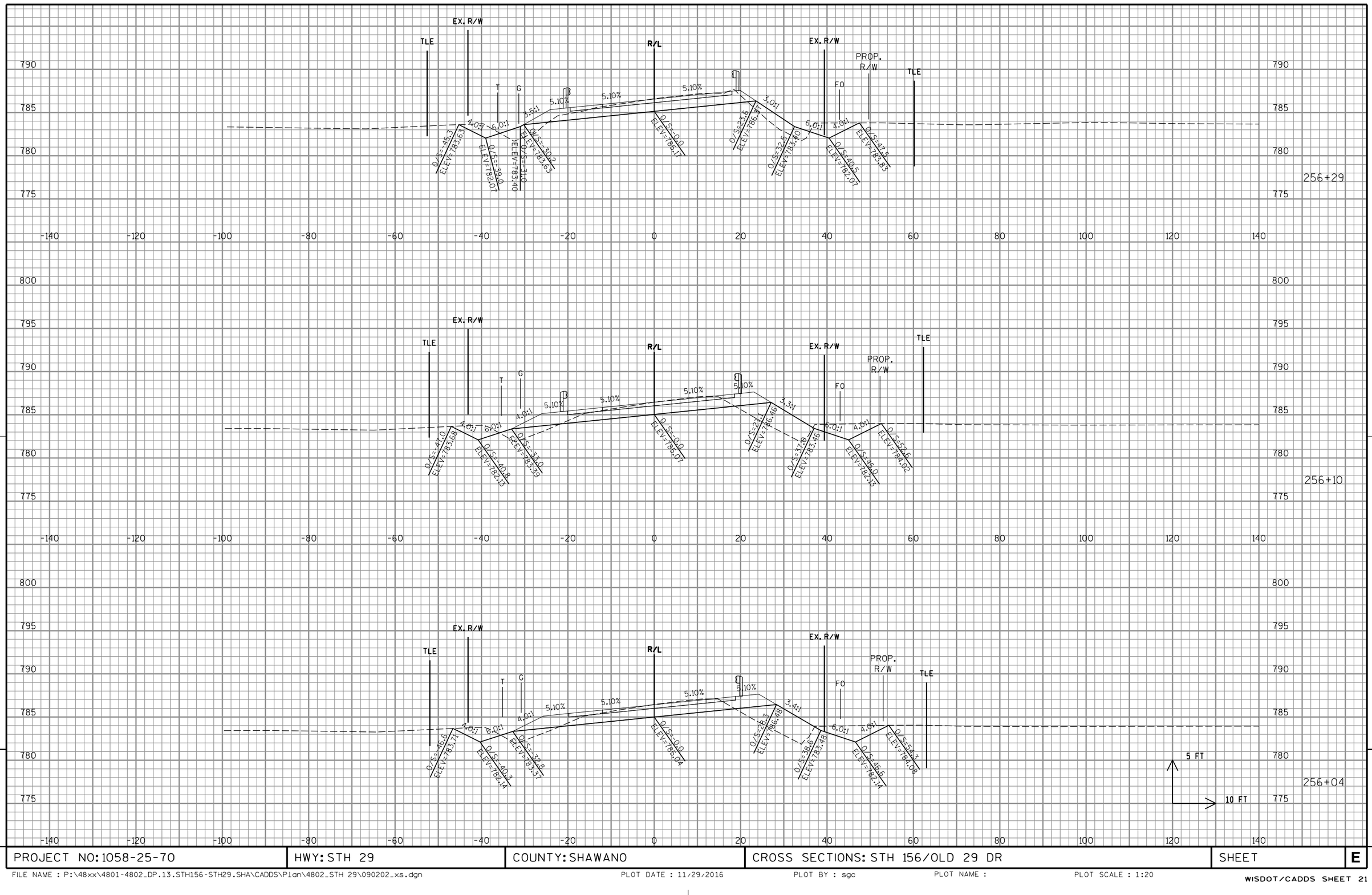

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PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 156/OLD 29 DR	SHEET	E

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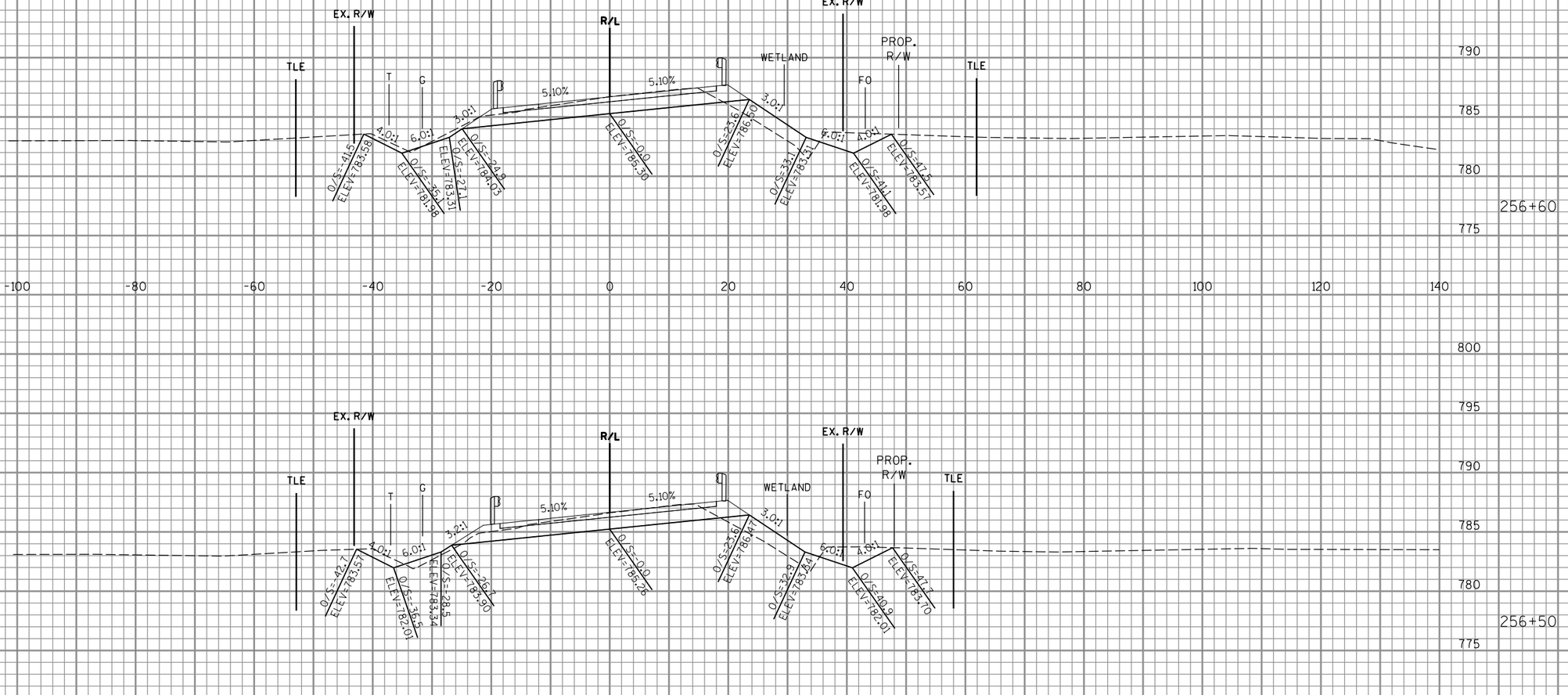
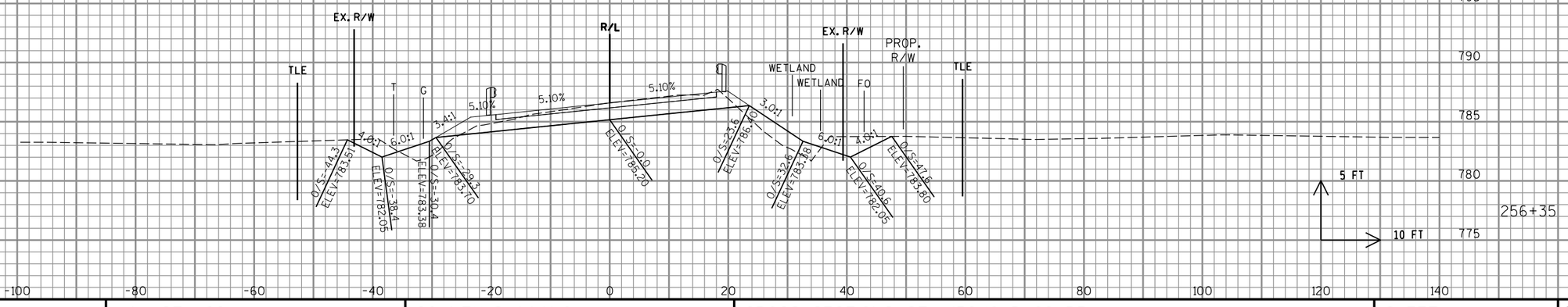
FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\090202_xs.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20





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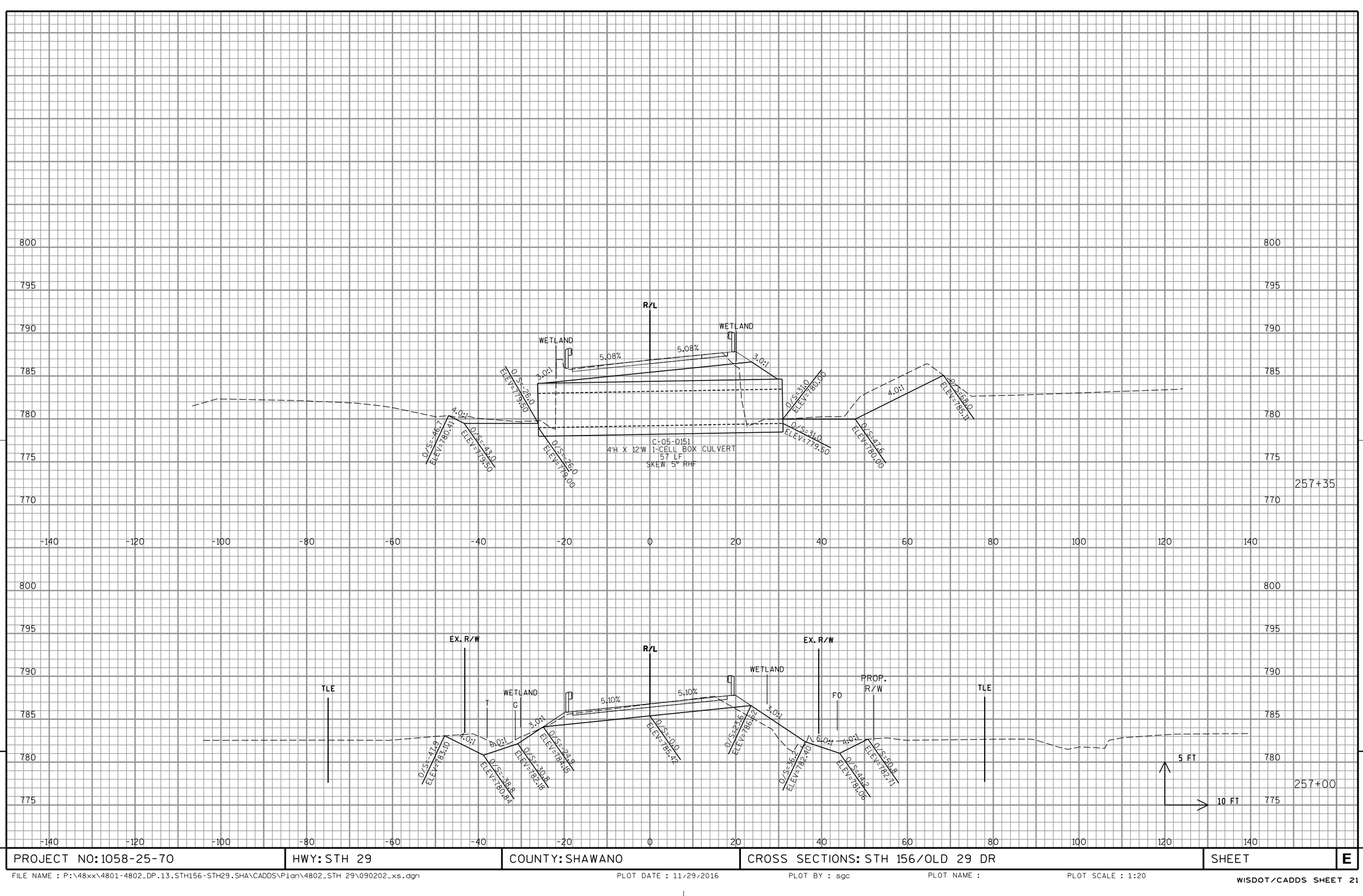
PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 156/OLD 29 DR	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\090202_xs.dgn
PLOT DATE : 11/29/2016
PLOT BY : sgc
PLOT NAME :
PLOT SCALE : 1:20
WISDOT/CADDS SHEET 21



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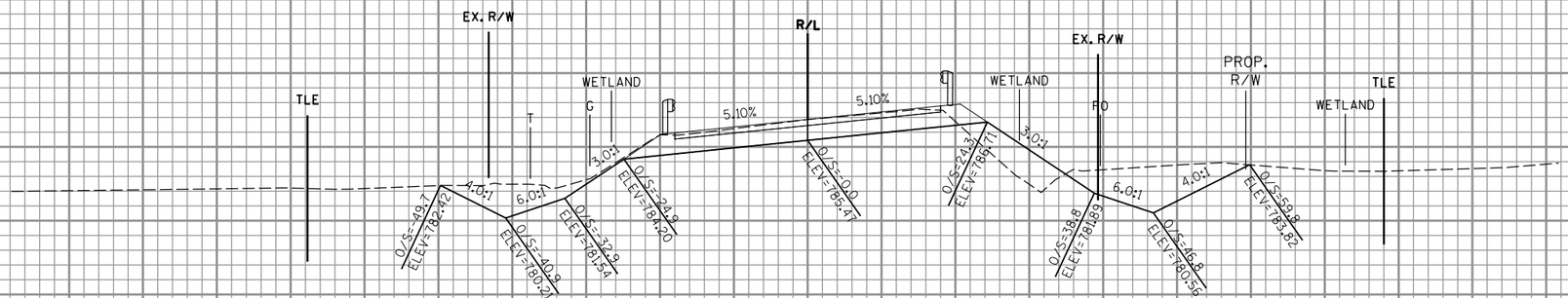
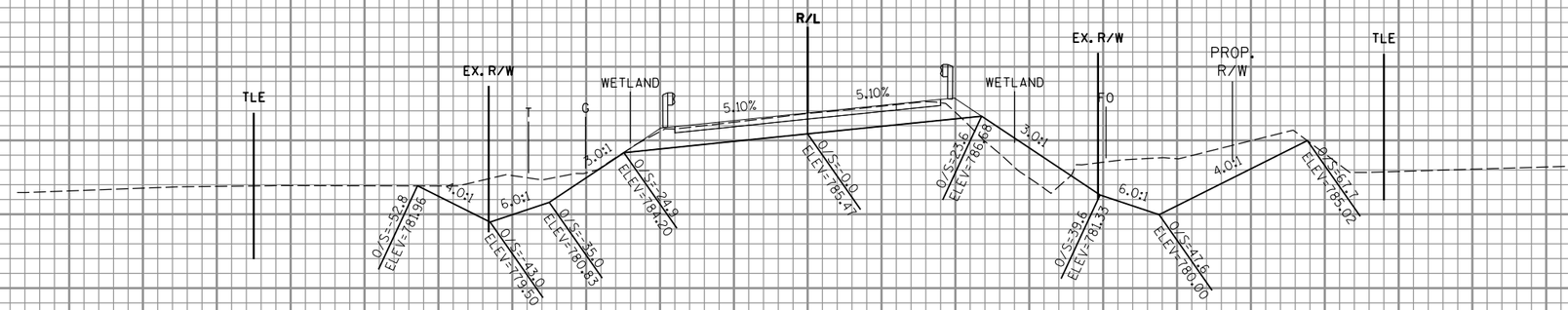
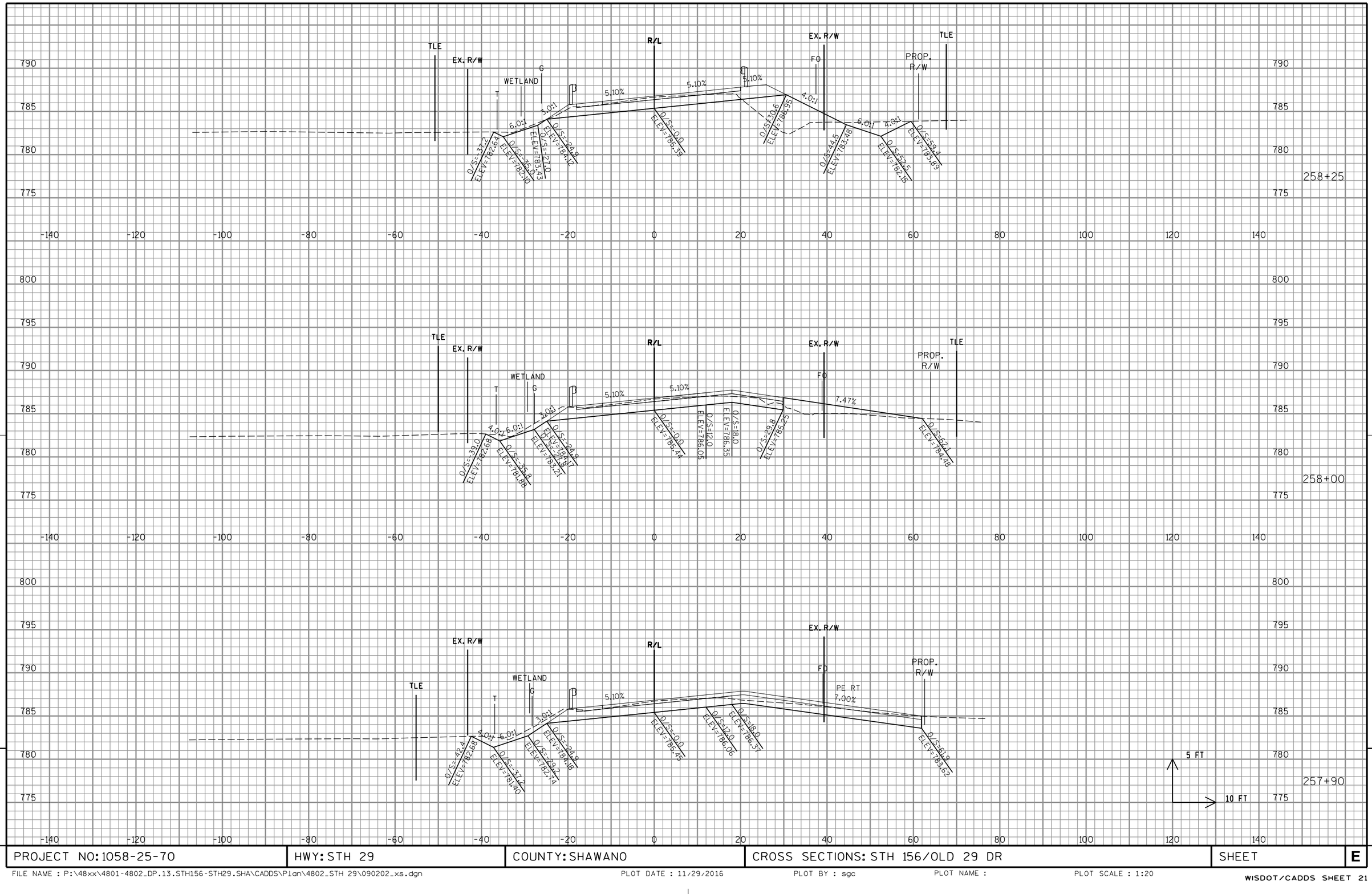
PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 156/OLD 29 DR	SHEET	E





PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 156/OLD 29 DR	SHEET	E



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 156/OLD 29 DR	SHEET E

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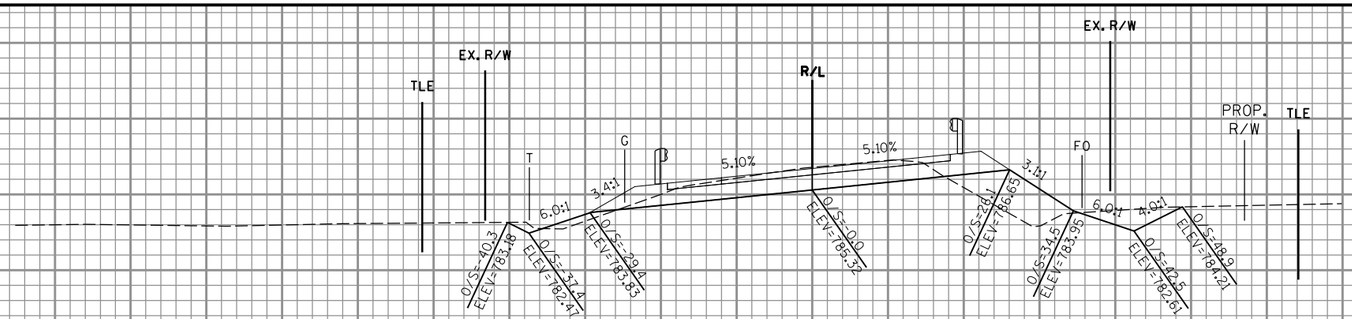
WISDOT/CADDS SHEET 21



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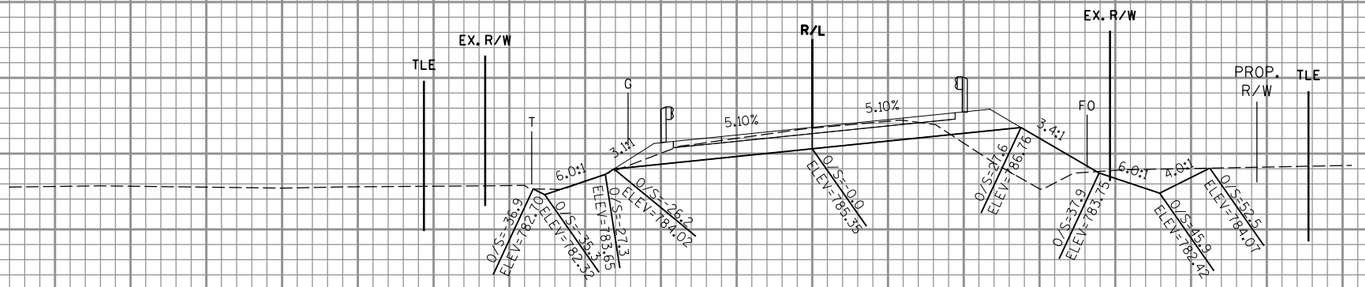

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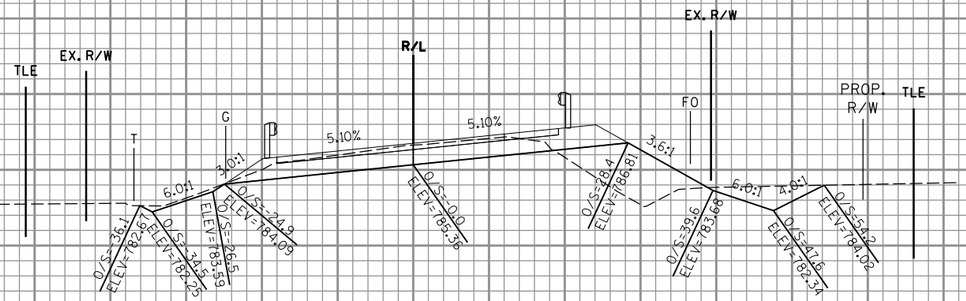

258+43

5 FT

10 FT

9

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PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 156/OLD 29 DR	SHEET	E

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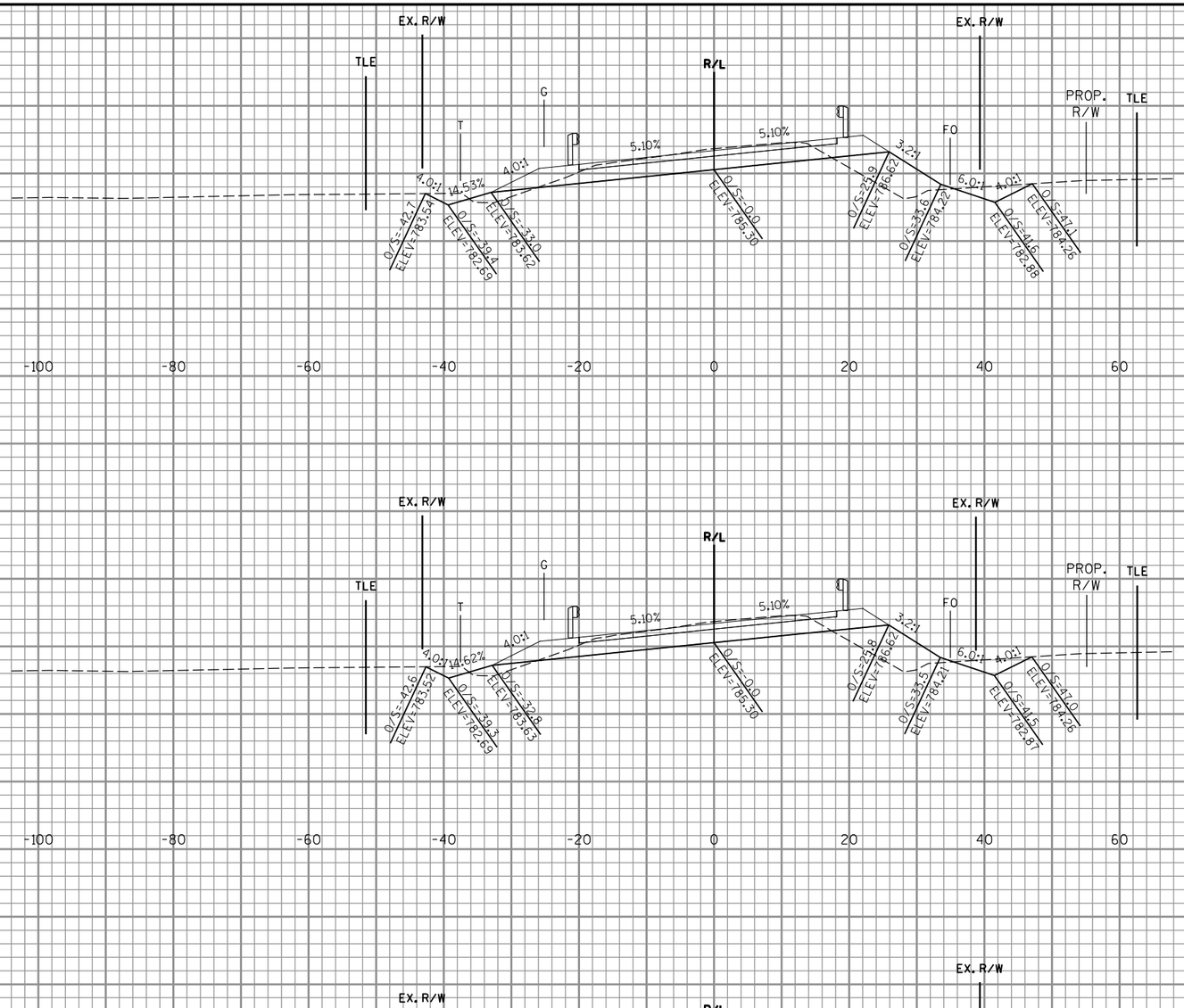
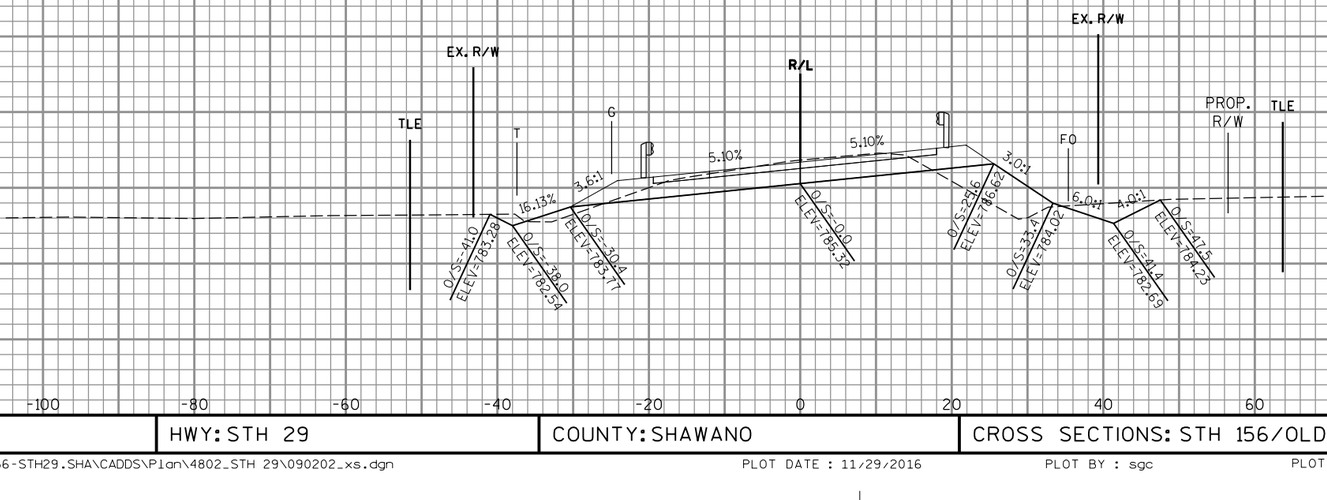
PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21





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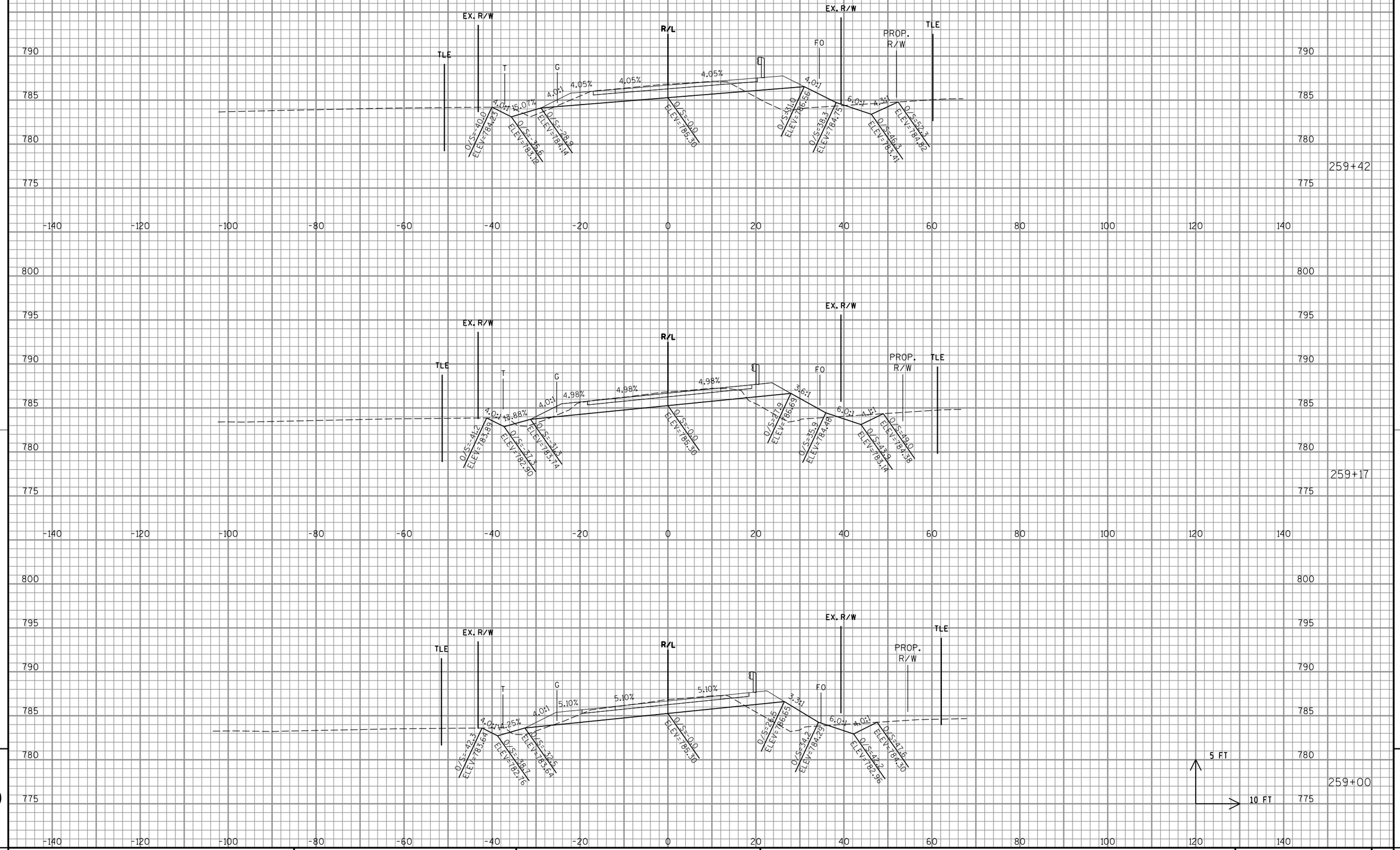
PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 156/OLD 29 DR	SHEET	E



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 156/OLD 29 DR	SHEET	E

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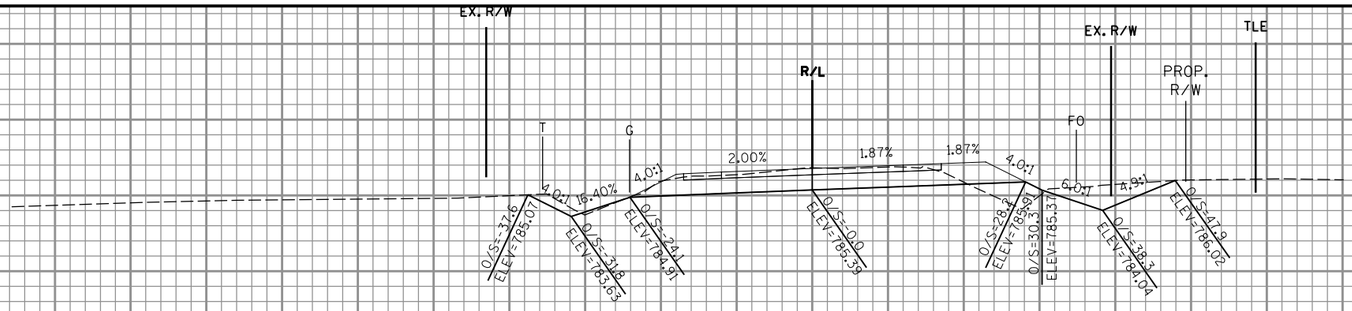
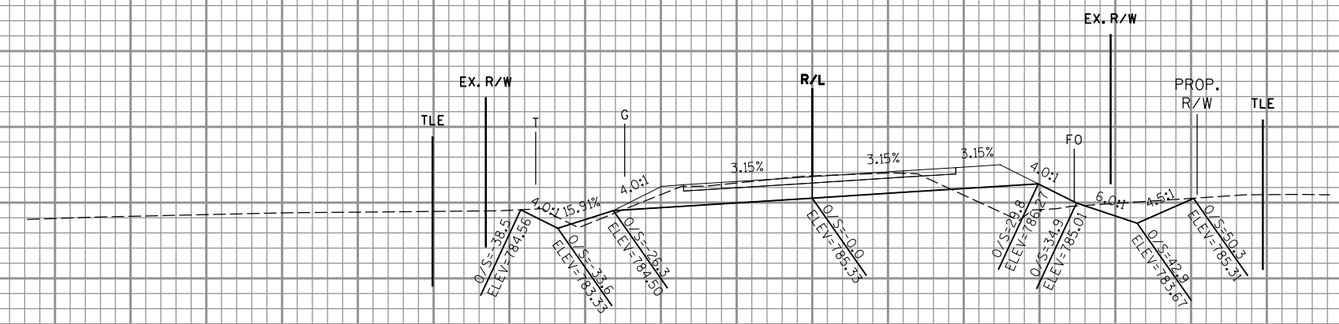
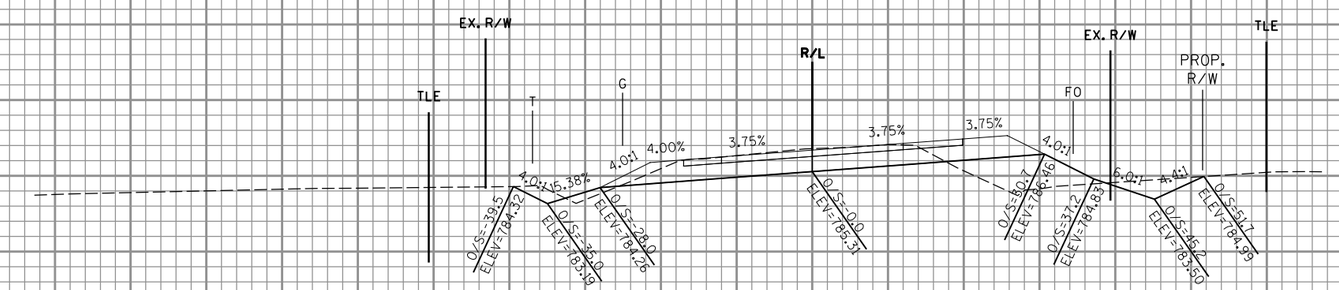
WISDOT/CADDS SHEET 21







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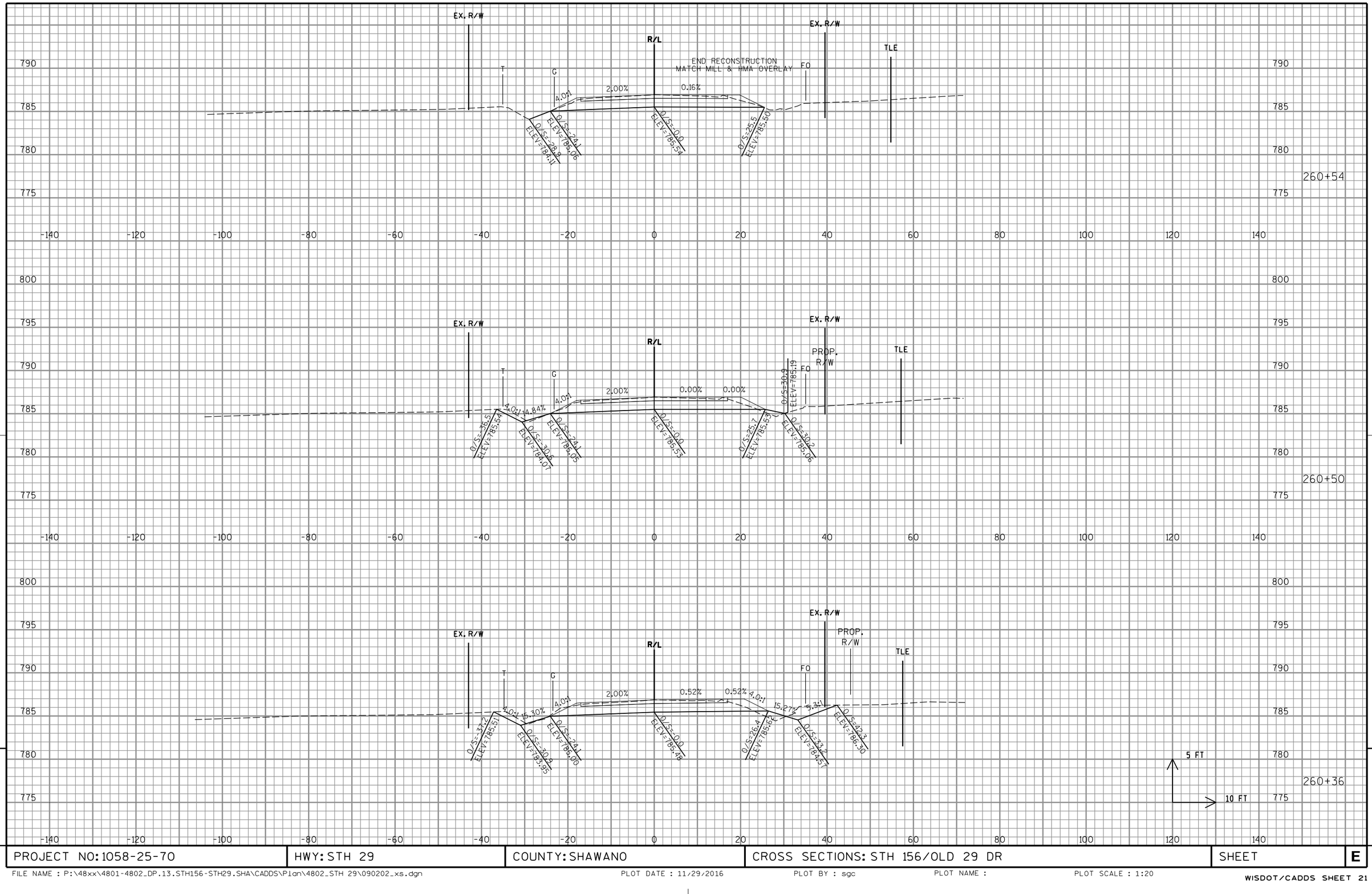
PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 156/OLD 29 DR	SHEET	E



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PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 156/OLD 29 DR	SHEET	E

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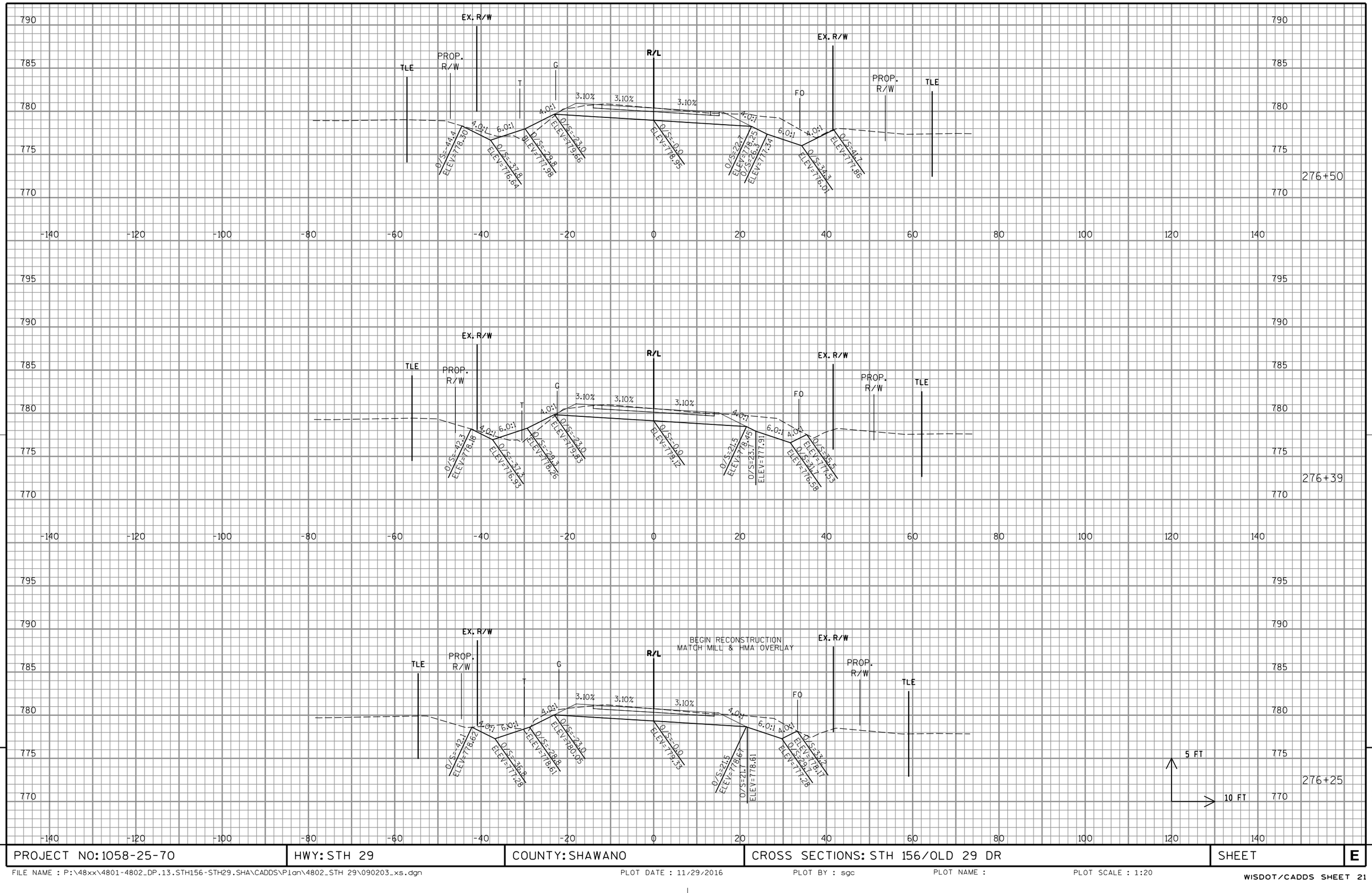
PLOT DATE : 11/29/2016

PLOT BY : sgc

PLOT NAME :

PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 156/OLD 29 DR	SHEET	E

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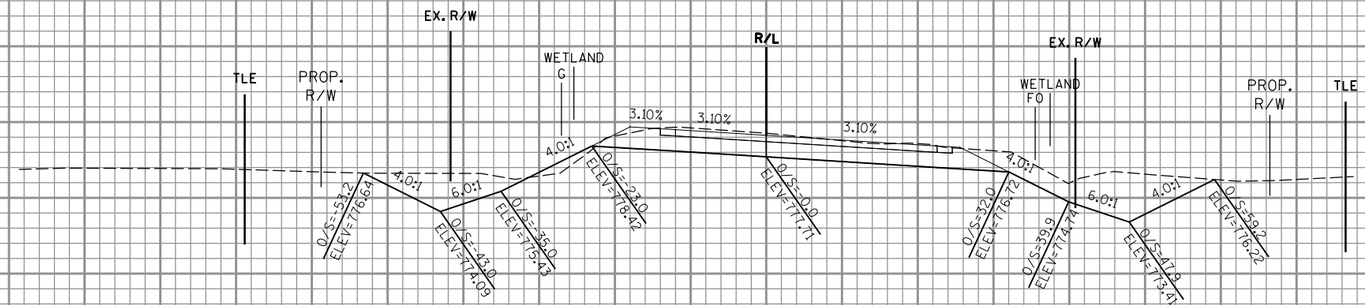
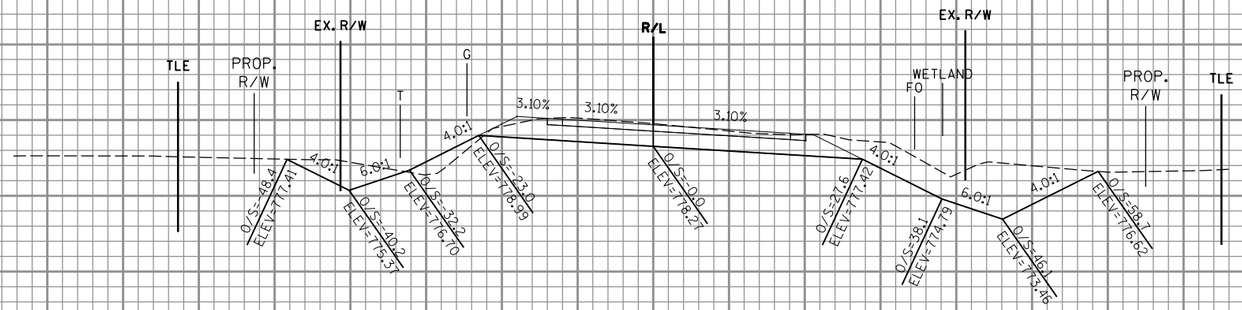
WISDOT/CADDS SHEET 21





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PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 156/OLD 29 DR	SHEET	E

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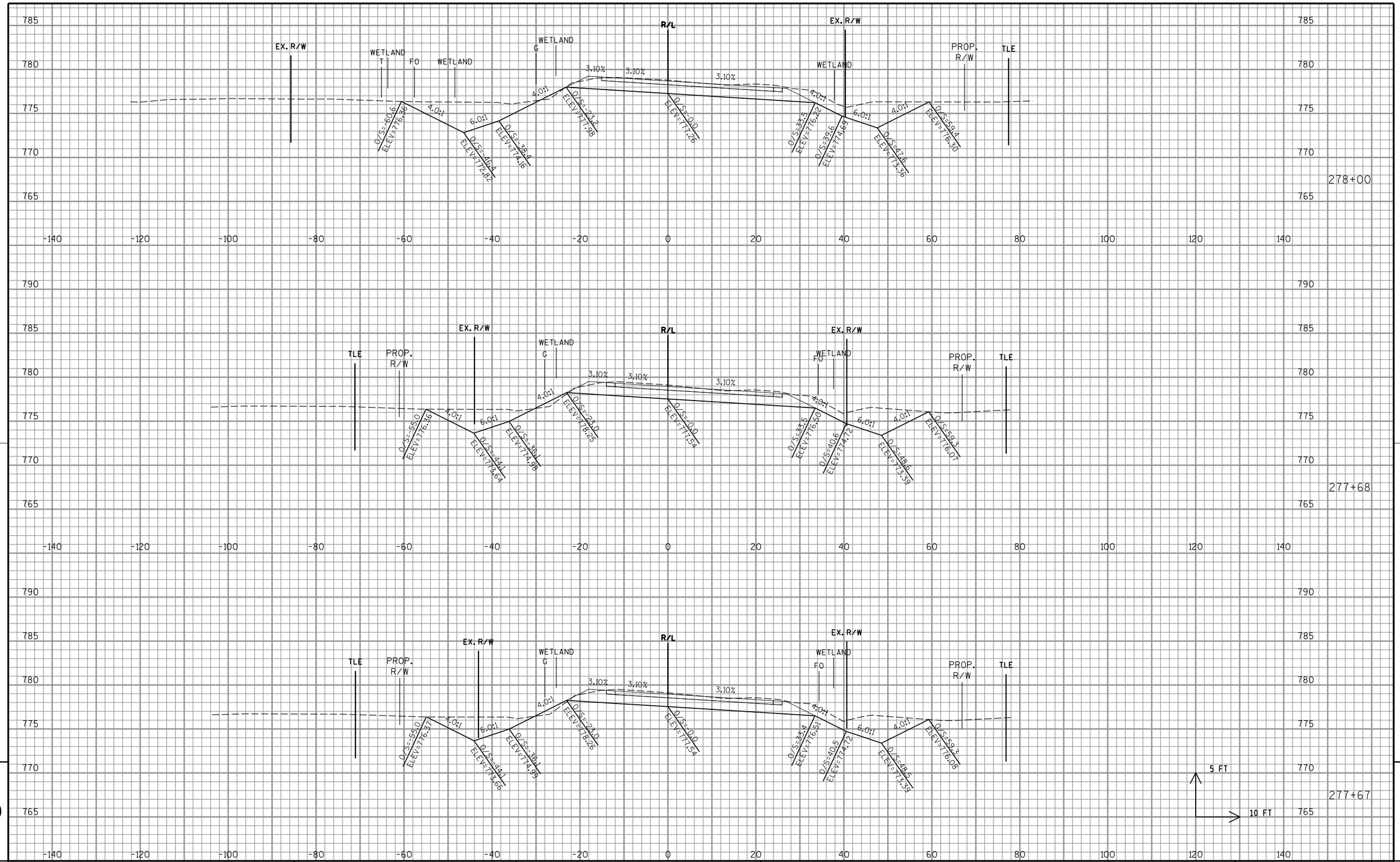

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 156/OLD 29 DR	SHEET	E

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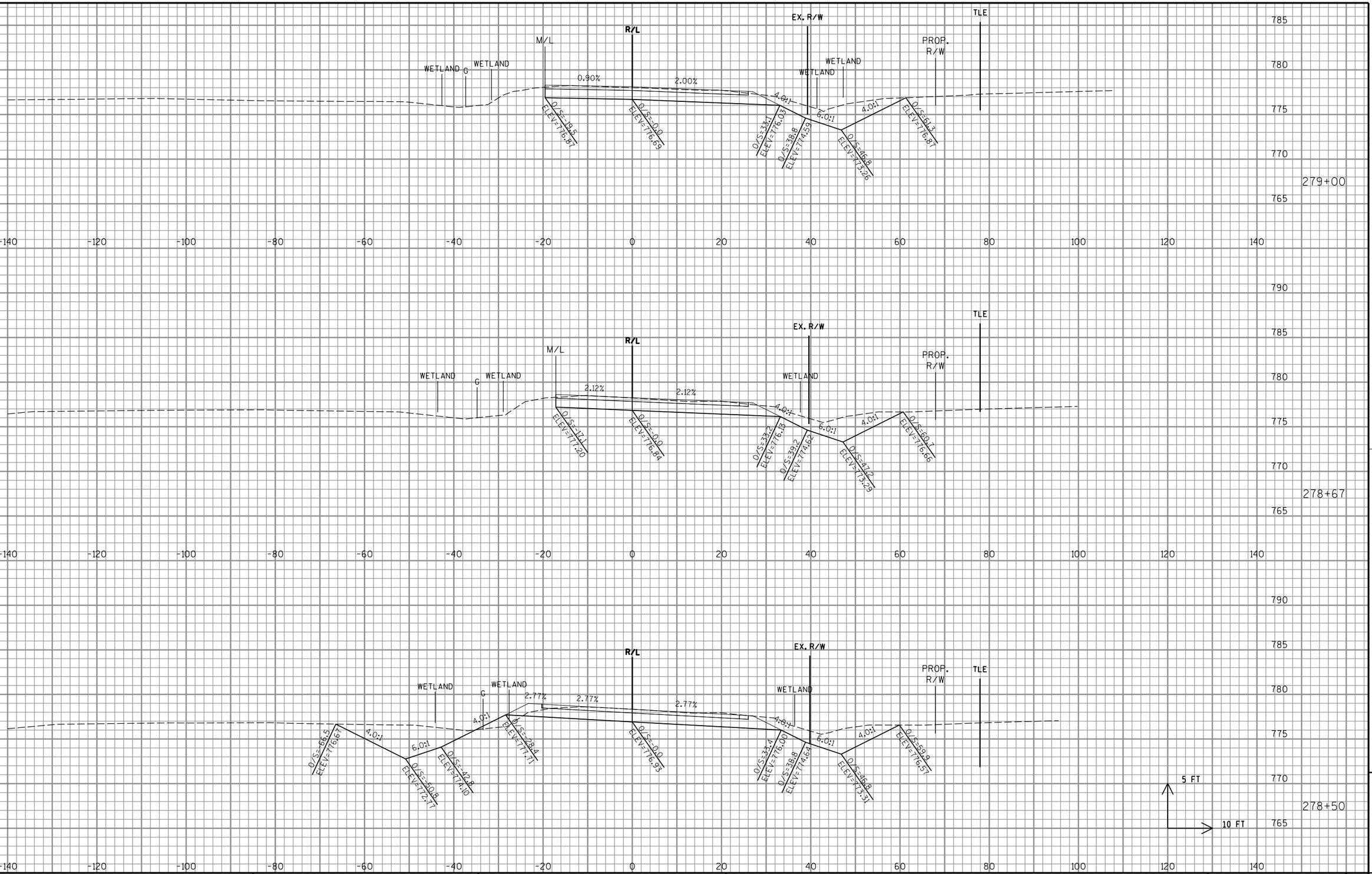

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 156/OLD 29 DR	SHEET	E

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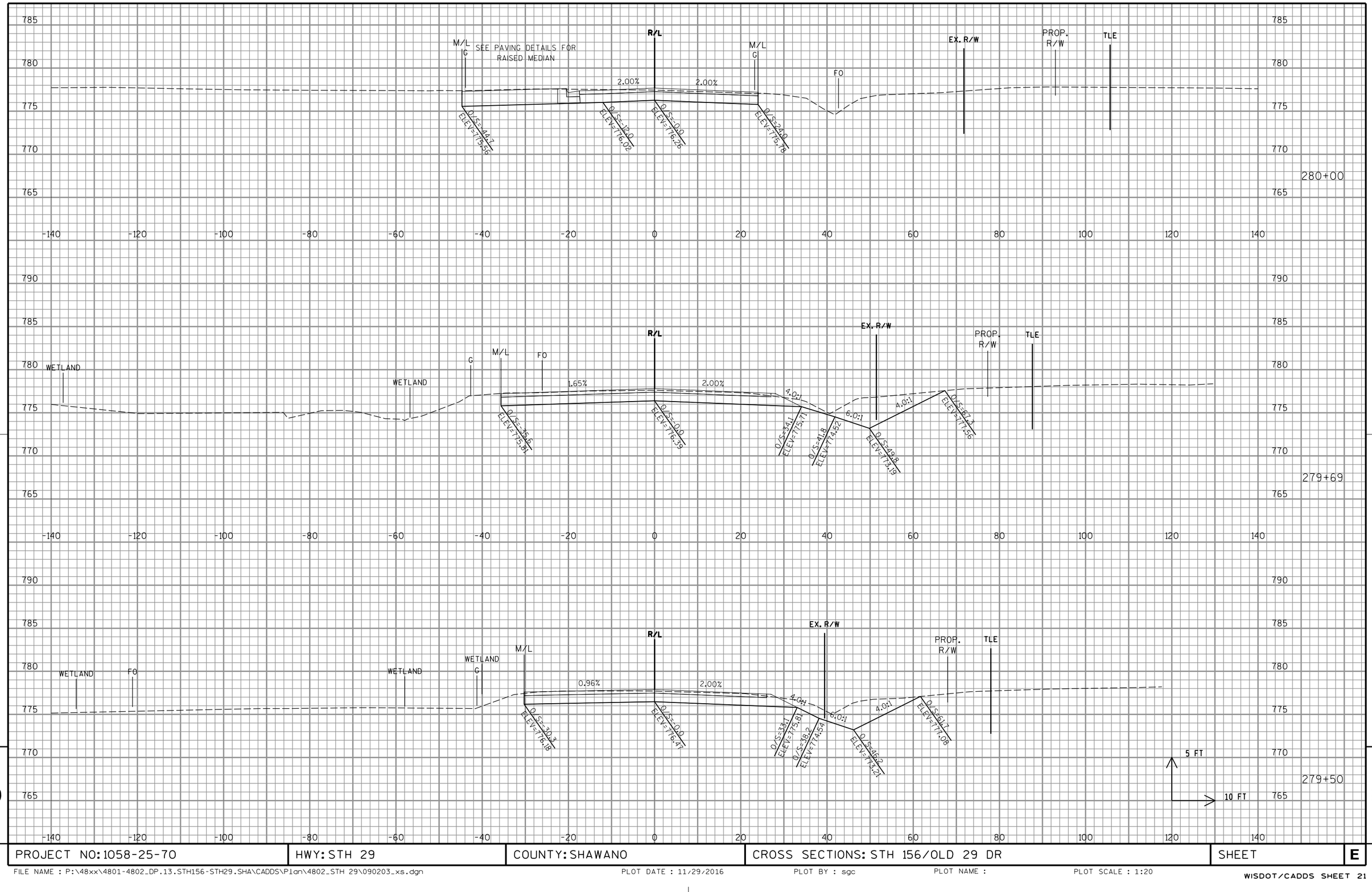

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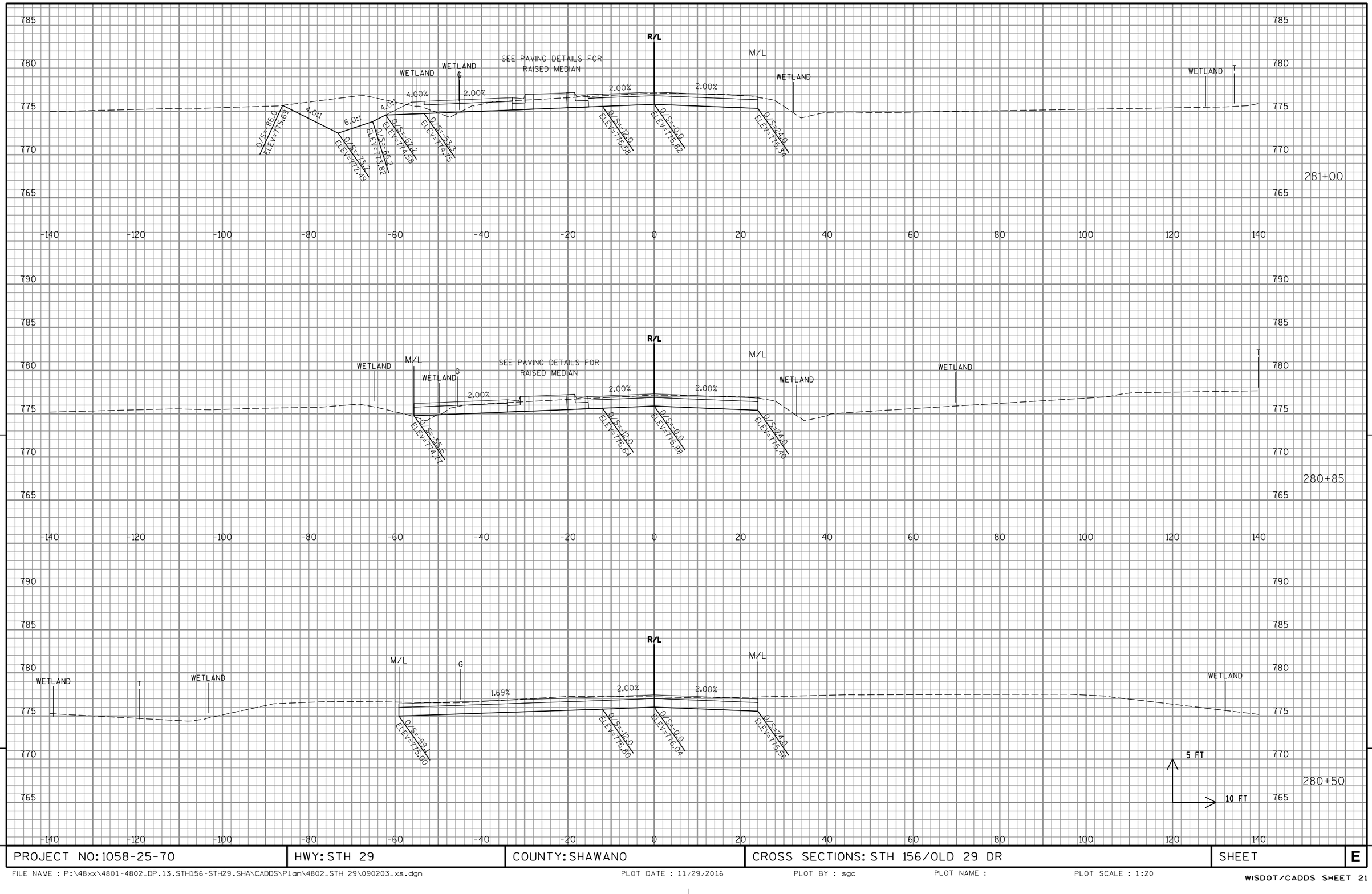

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 156/OLD 29 DR	SHEET	E

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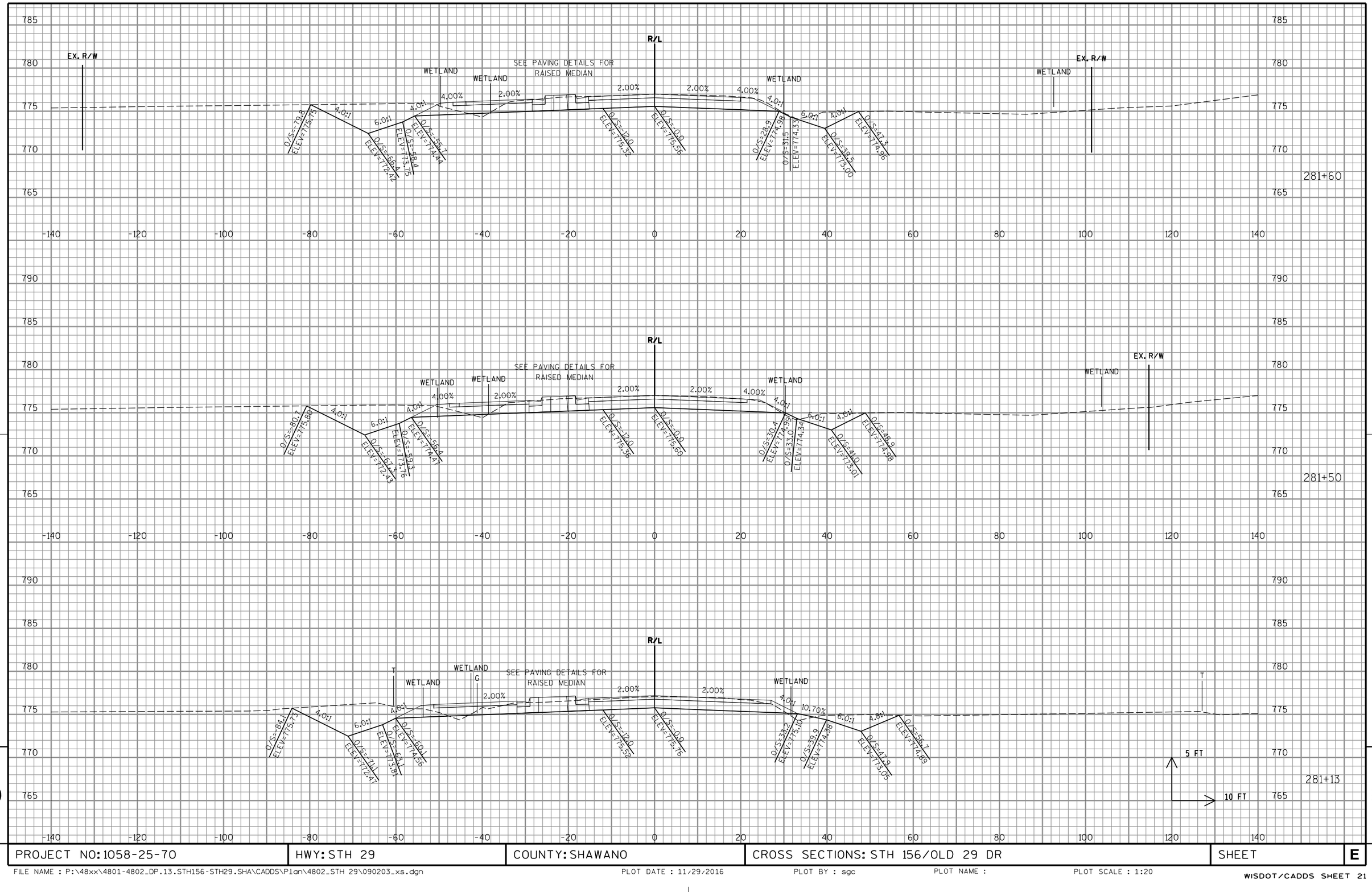
WISDOT/CADDS SHEET 21



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 156/OLD 29 DR	SHEET	E

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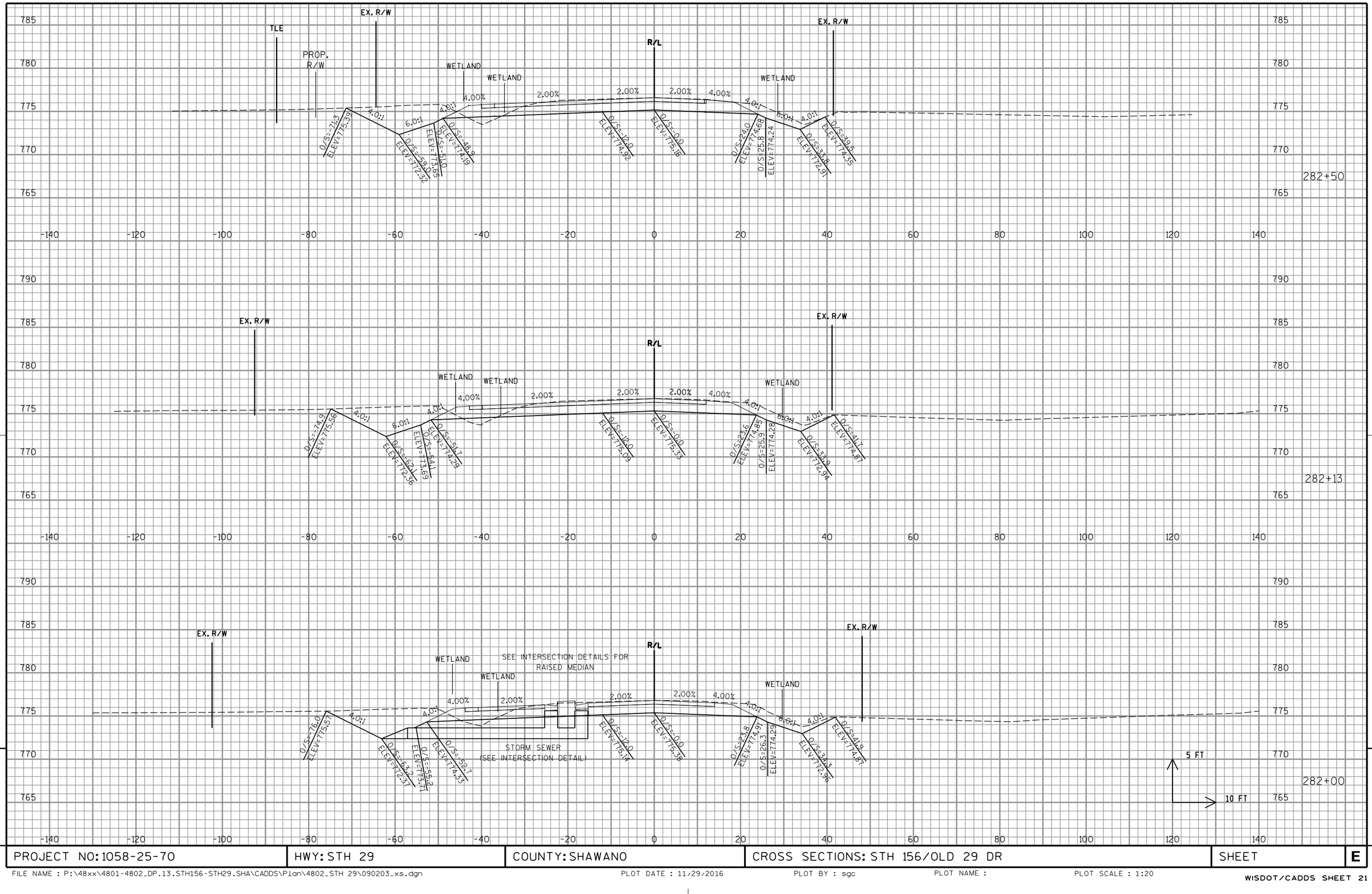

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 156/OLD 29 DR	SHEET	E

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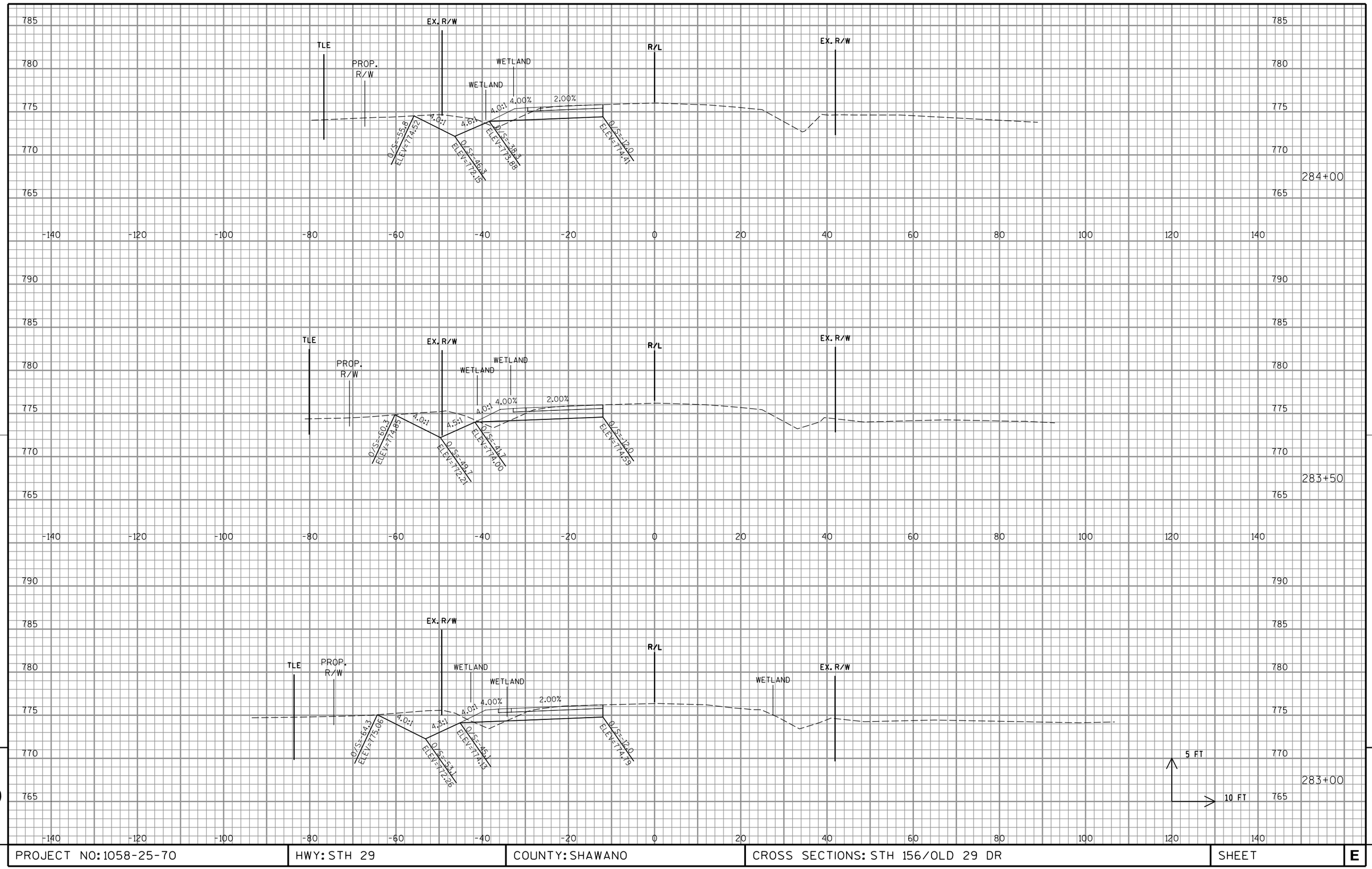
WISDOT/CADDS SHEET 21



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 156/OLD 29 DR	SHEET	E

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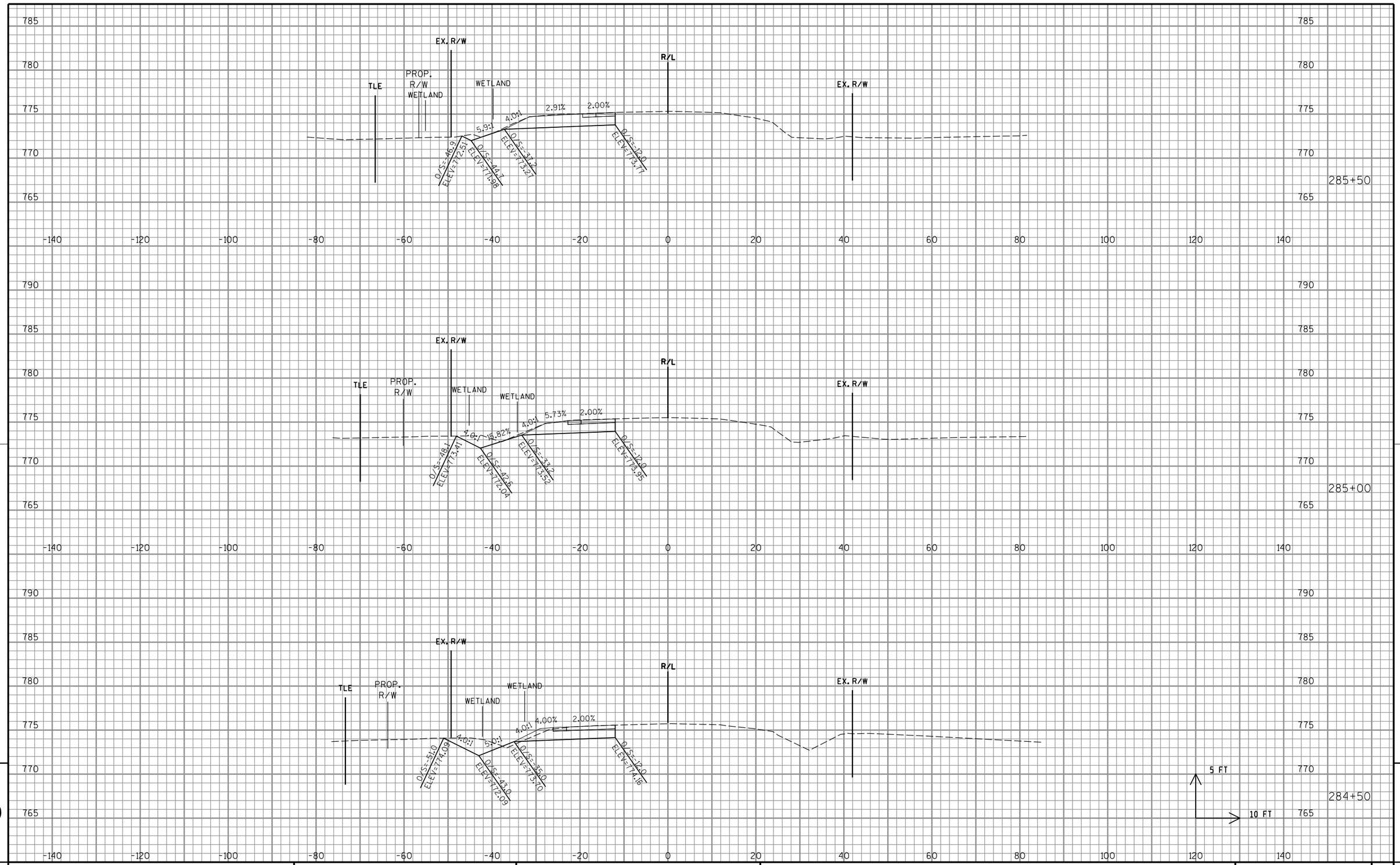

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 156/OLD 29 DR	SHEET	E

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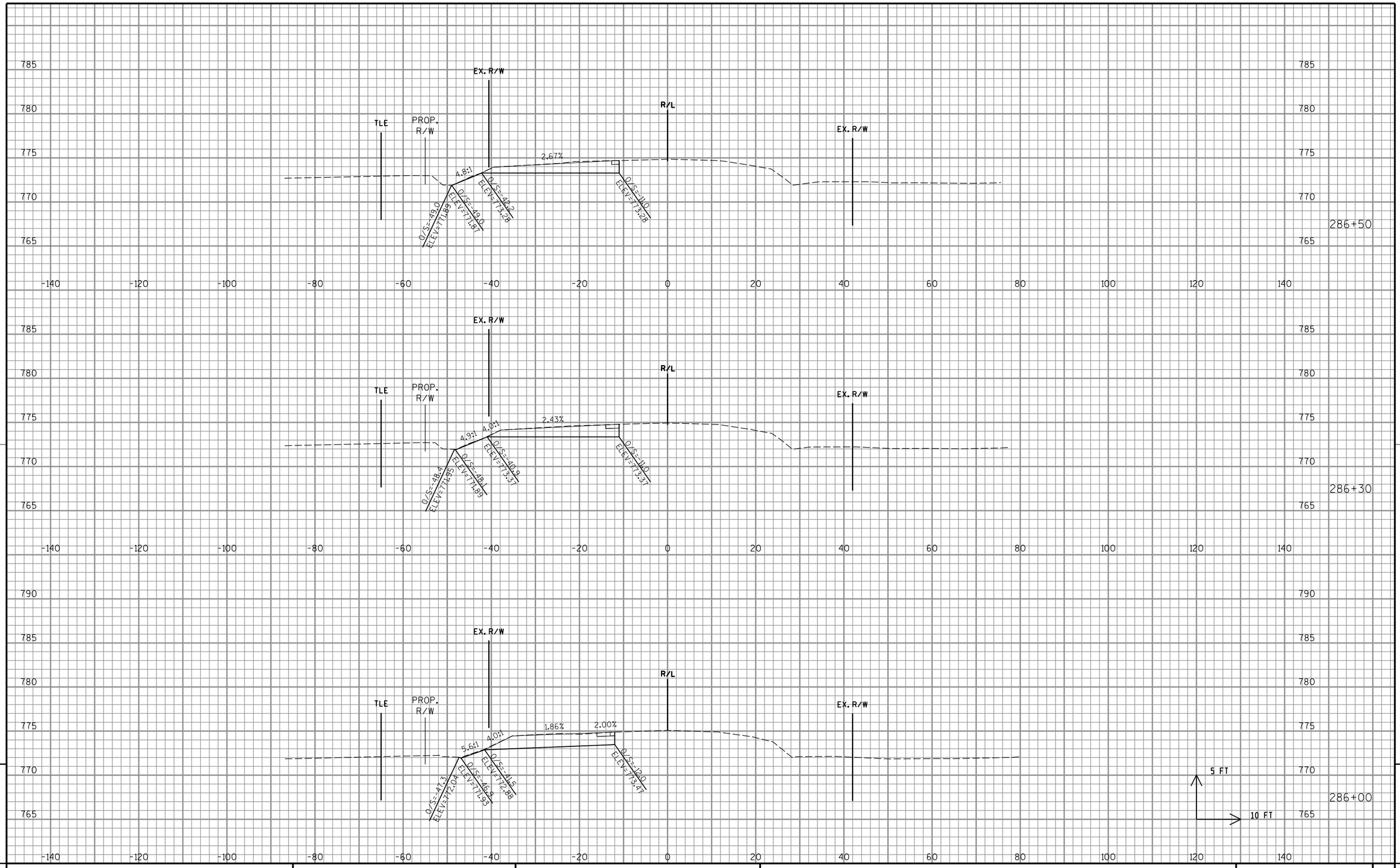

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 156/OLD 29 DR	SHEET	E

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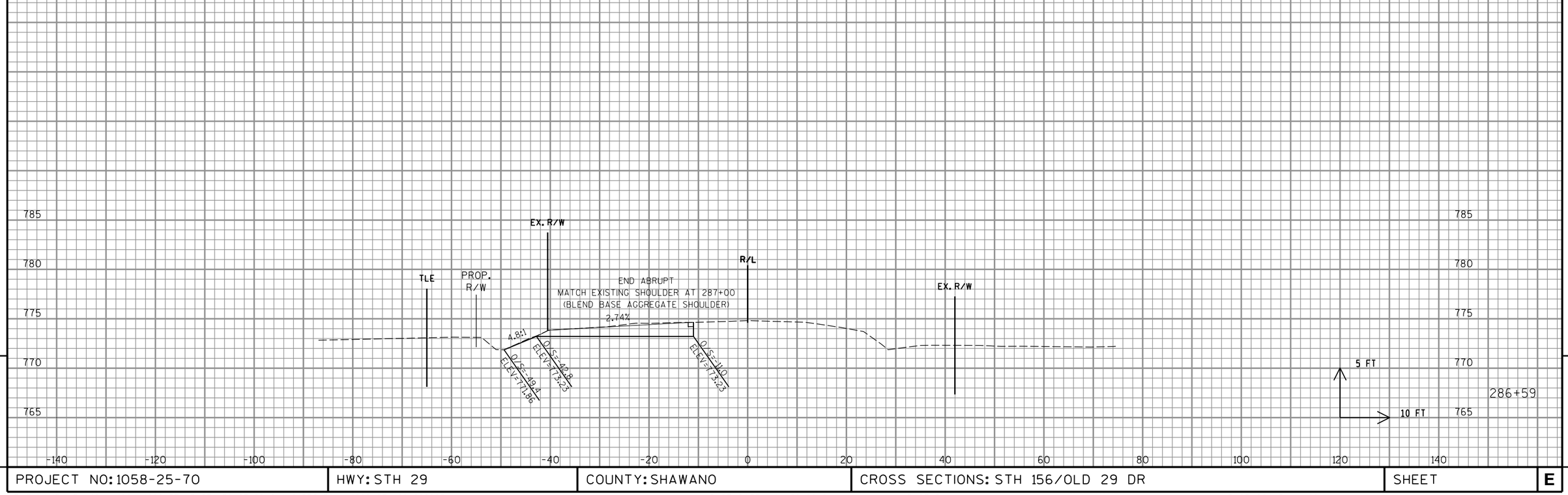
WISDOT/CADDS SHEET 21



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PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 156/OLD 29 DR	SHEET	E

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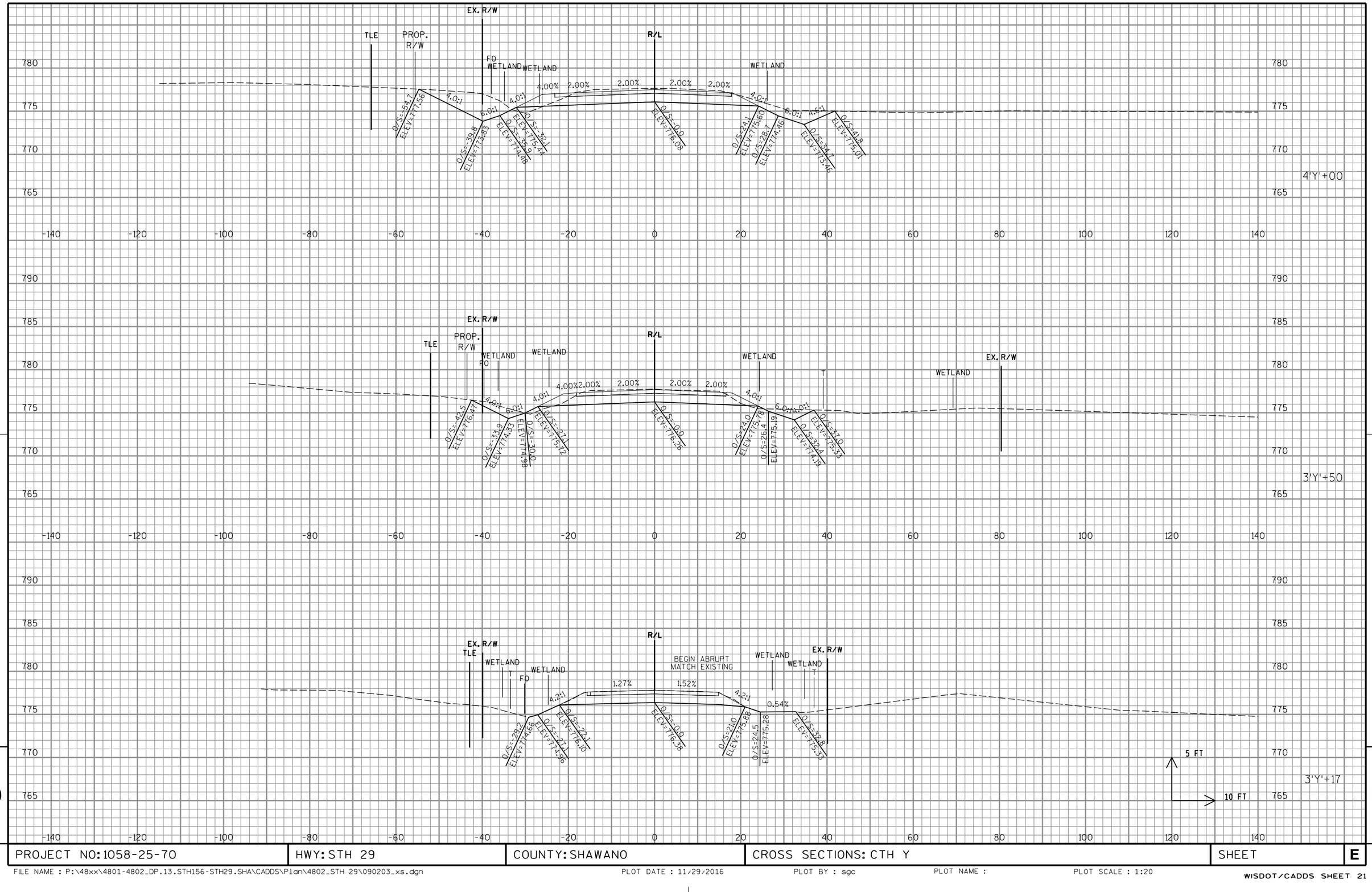
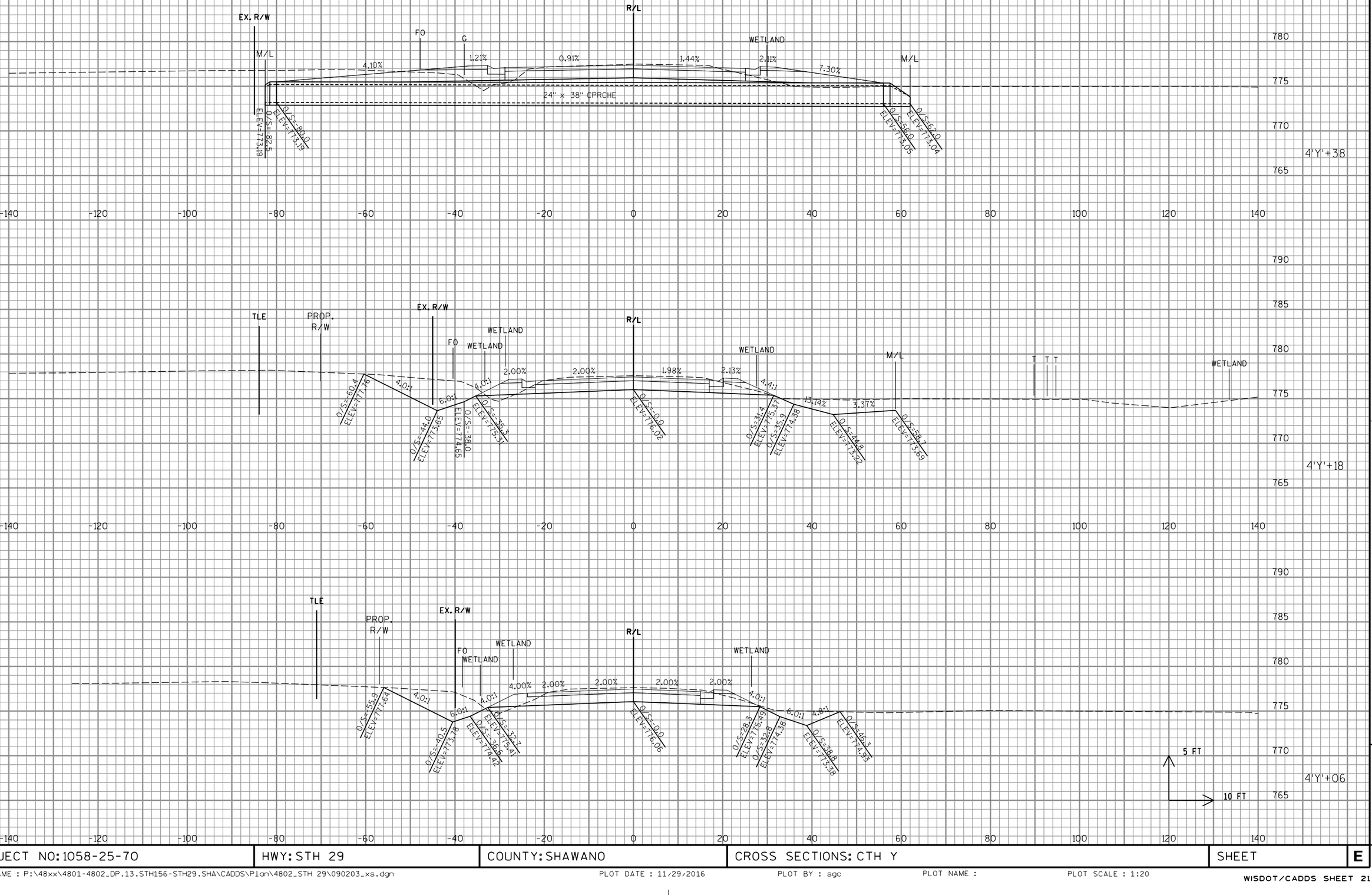


PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: CTH Y	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\090203_xs.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: CTH Y	SHEET	E

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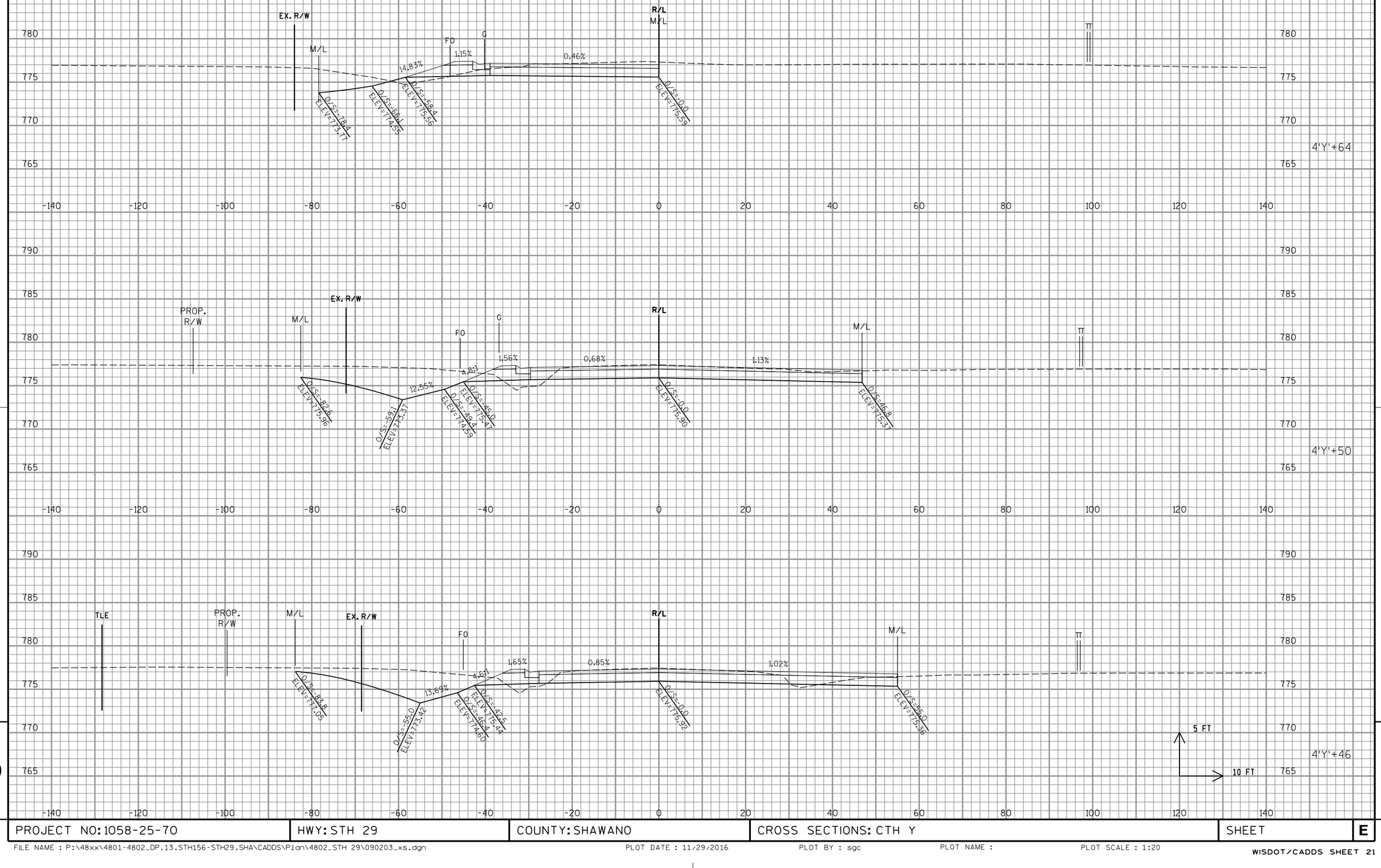
WISDOT/CADDS SHEET 21



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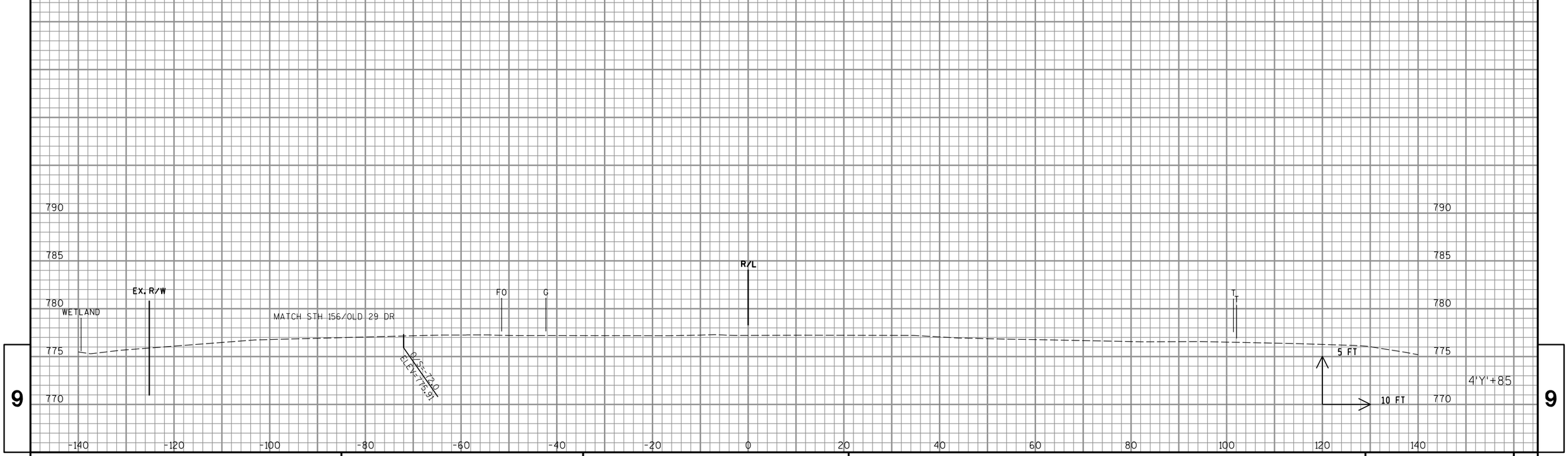

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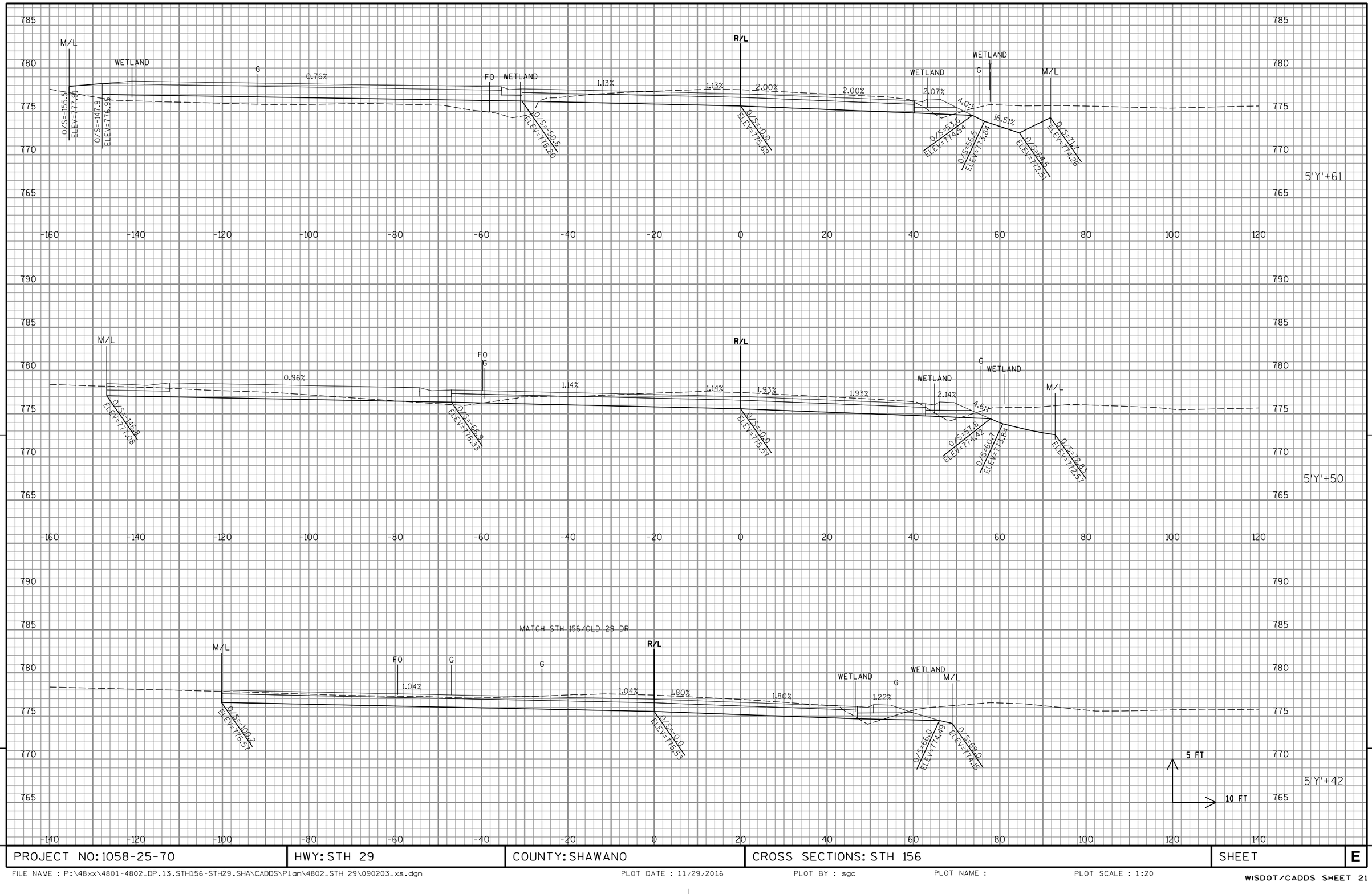
PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: CTH Y	SHEET	E



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 156	SHEET	E

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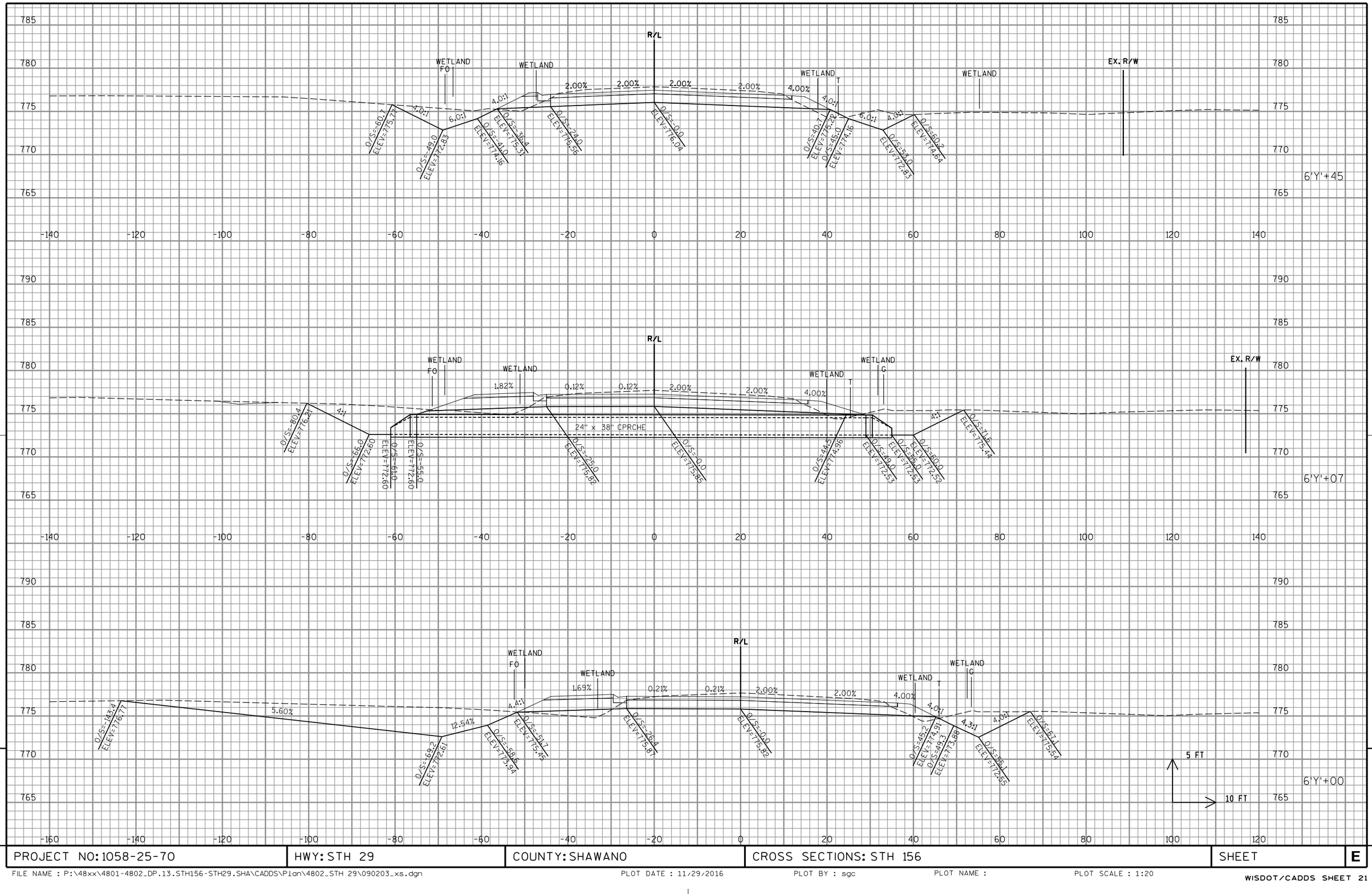
WISDOT/CADDS SHEET 21



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 156	SHEET	E

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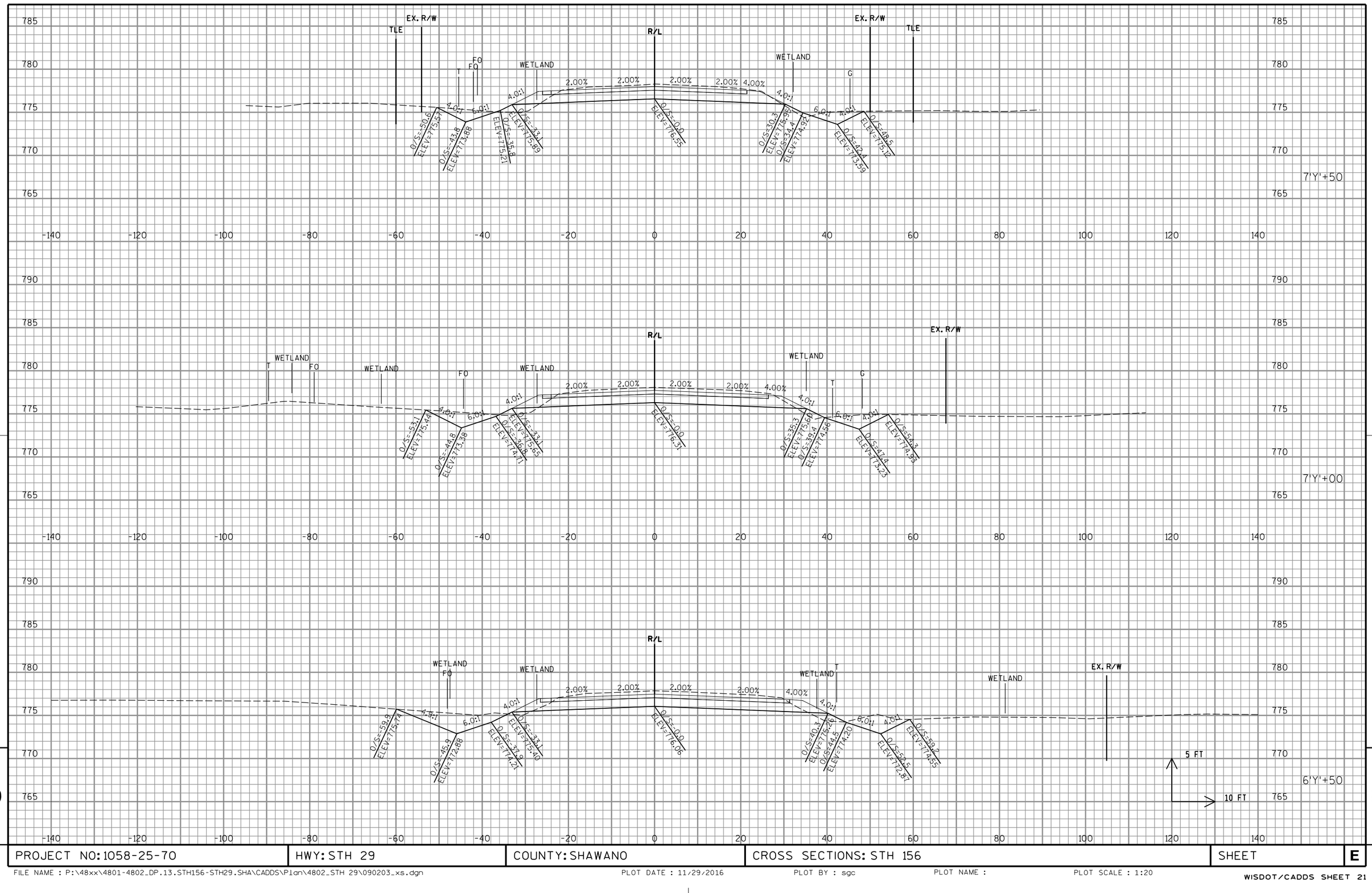
WISDOT/CADDS SHEET 21



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PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 156	SHEET	E

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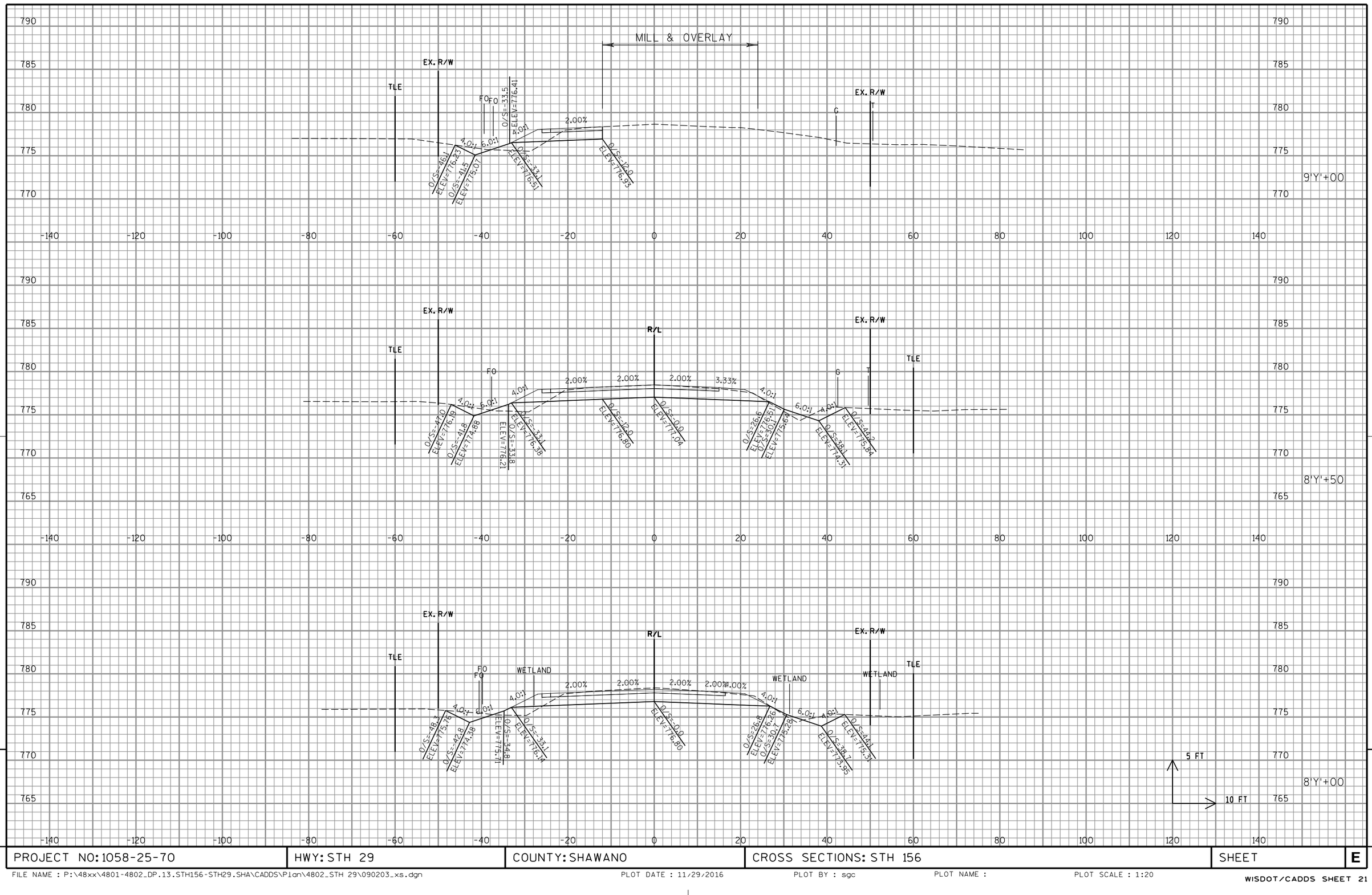
FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\090203_xs.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 156	SHEET	E

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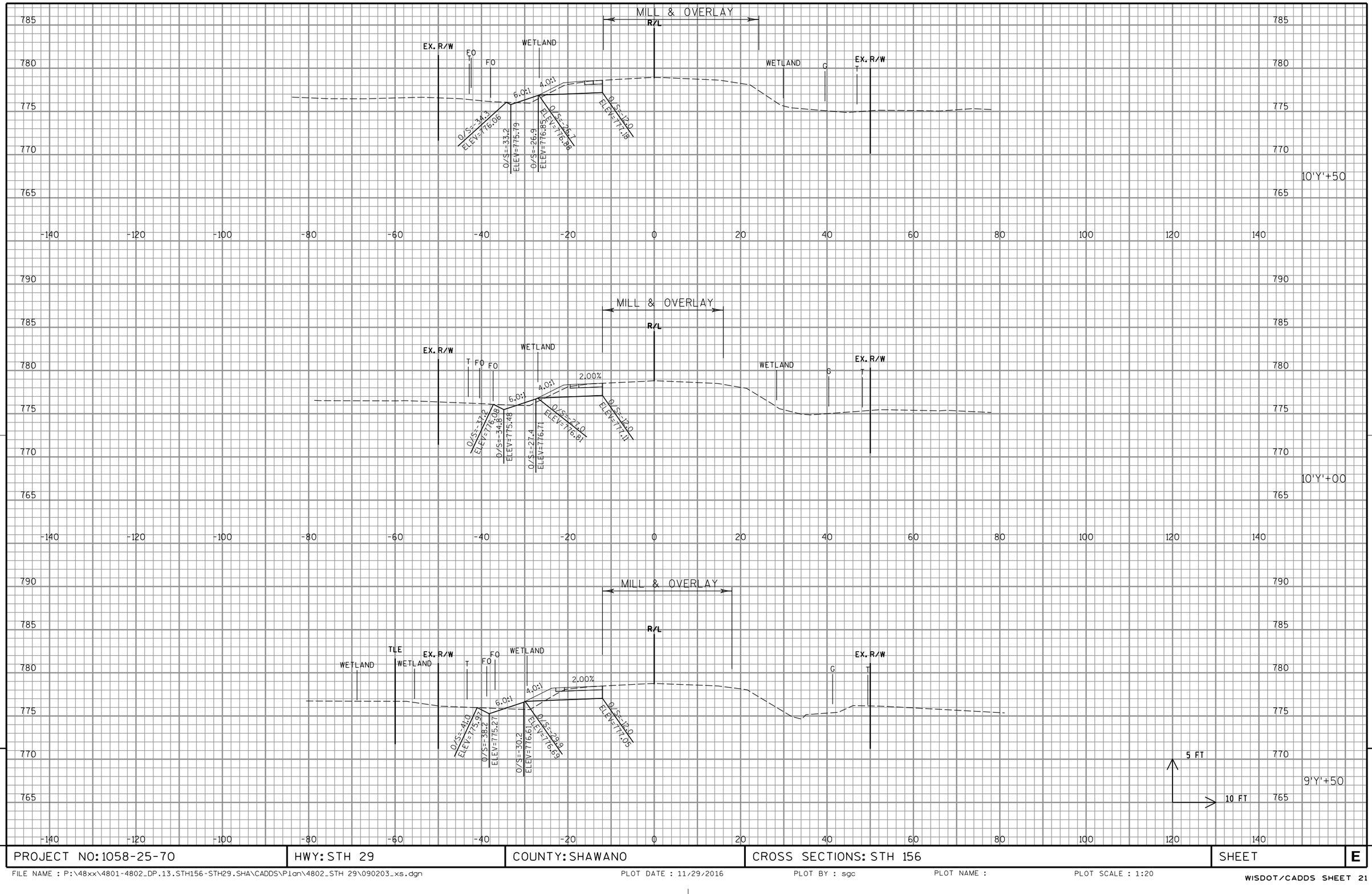
WISDOT/CADDS SHEET 21



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 156	SHEET	E

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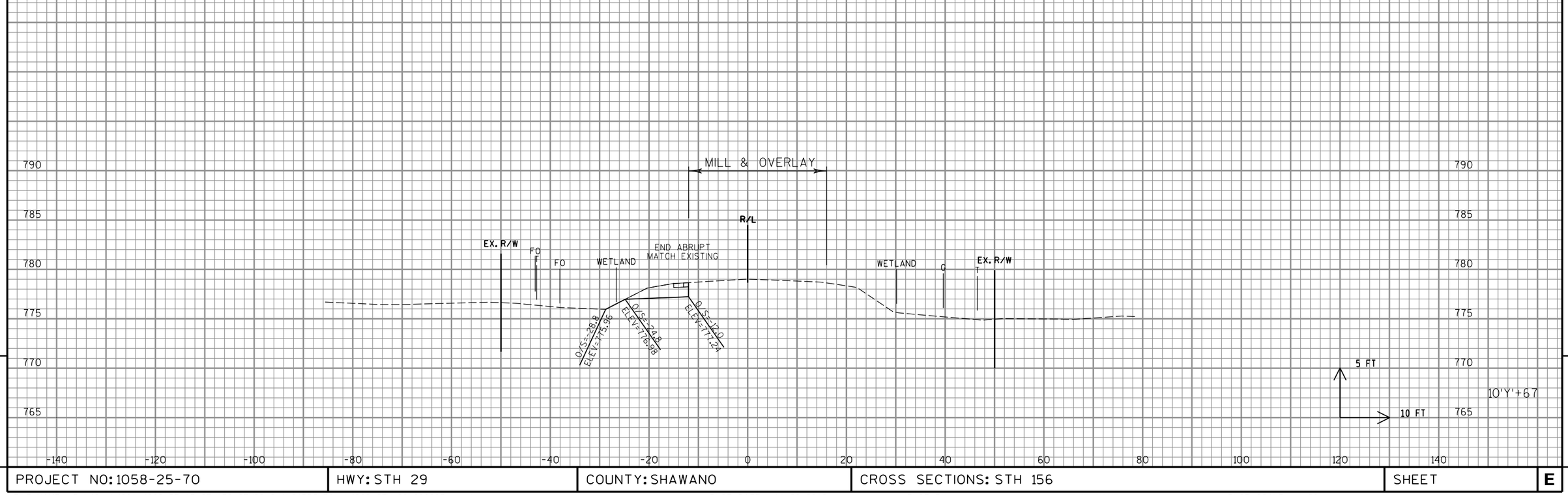

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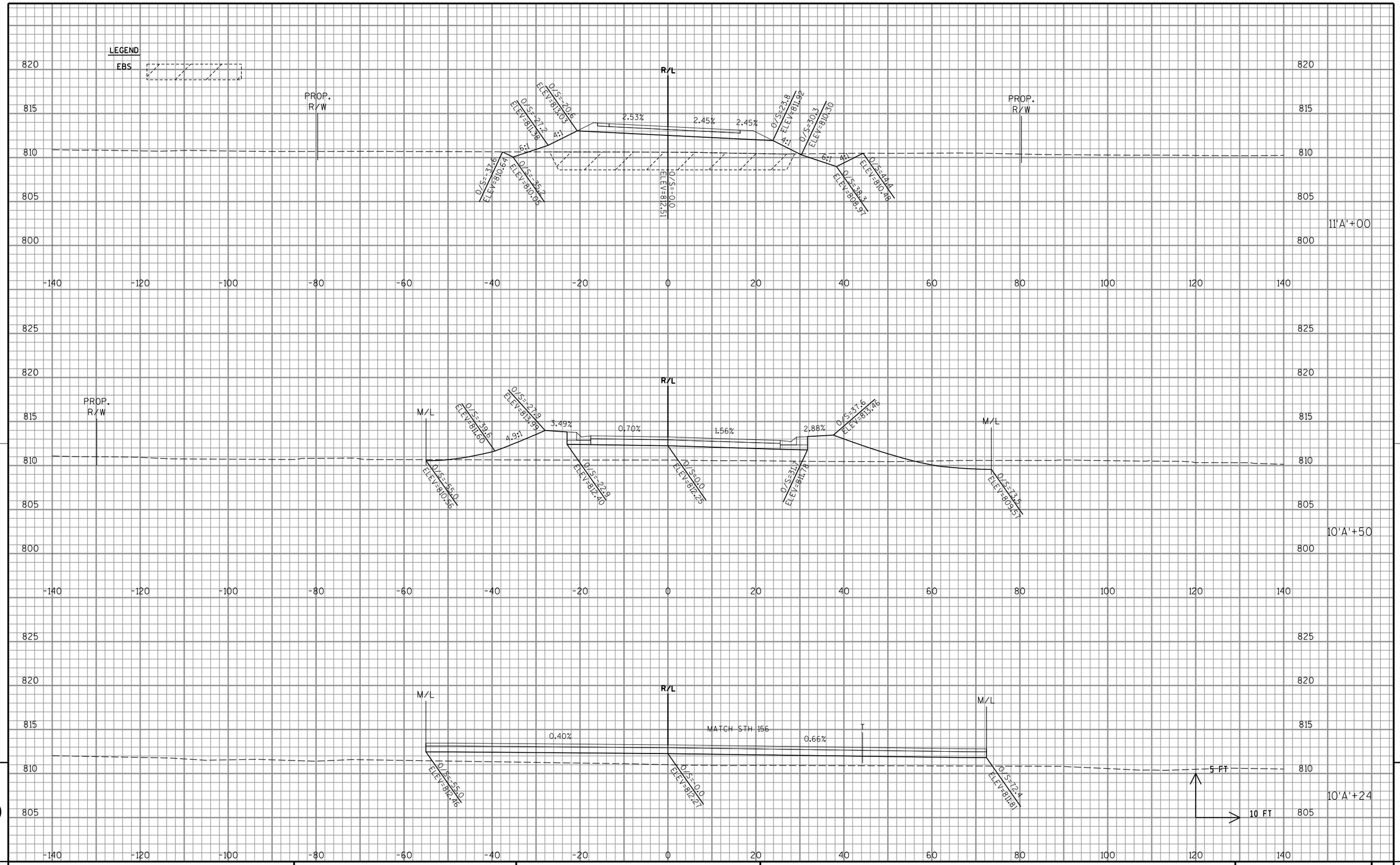
PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 156	SHEET	E



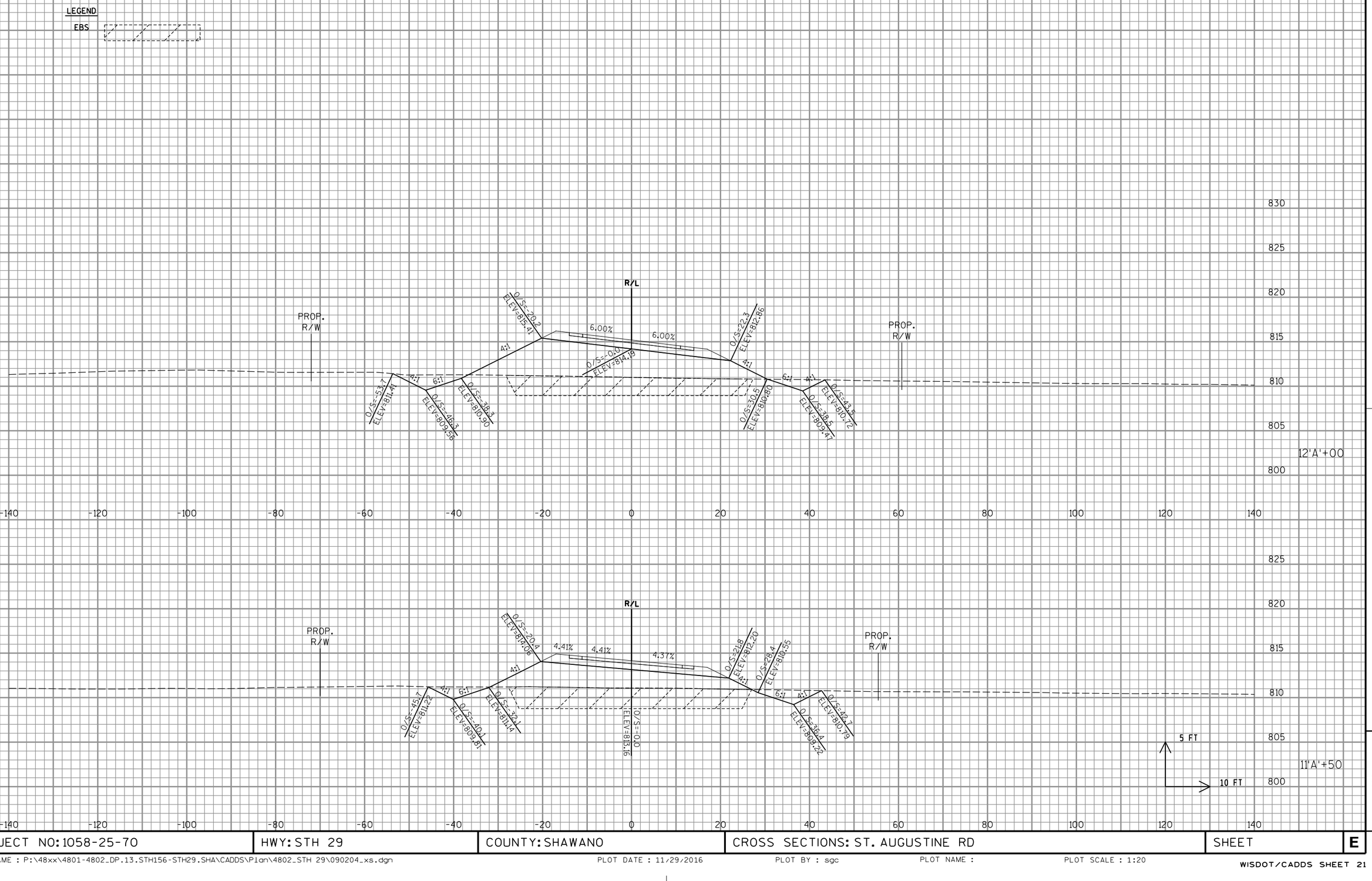
PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\090204_xs.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

LEGEND

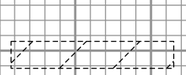
EBS

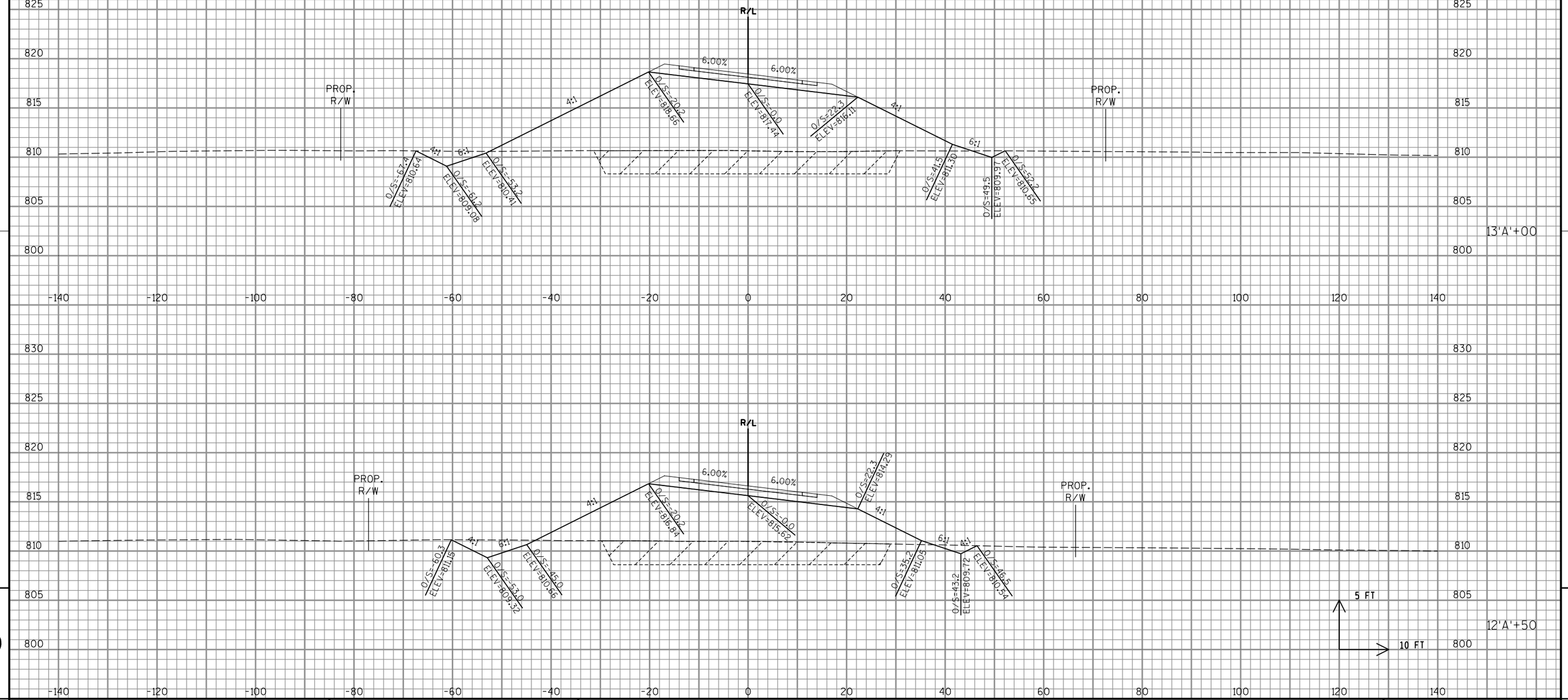


PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E

LEGEND

EBS





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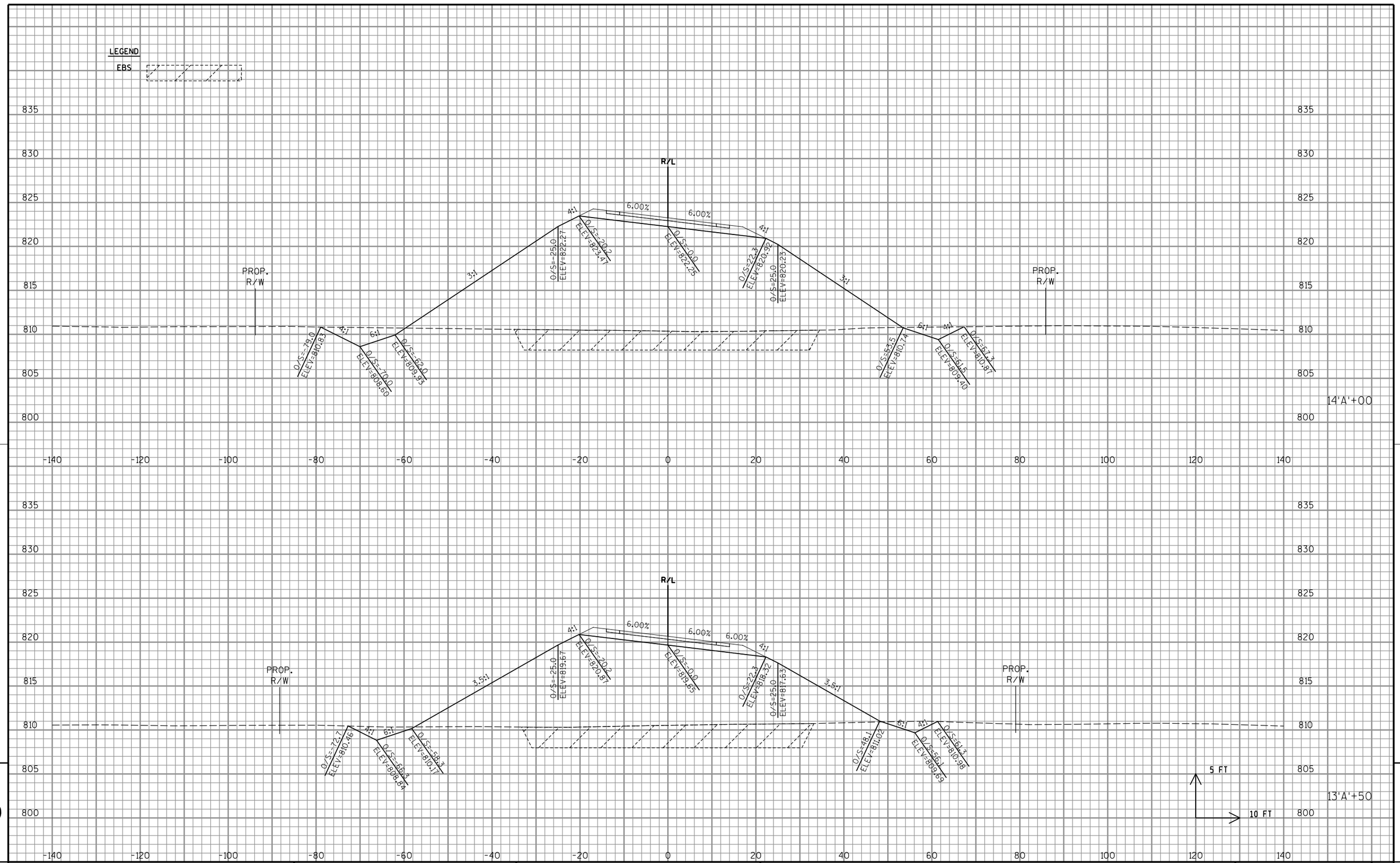
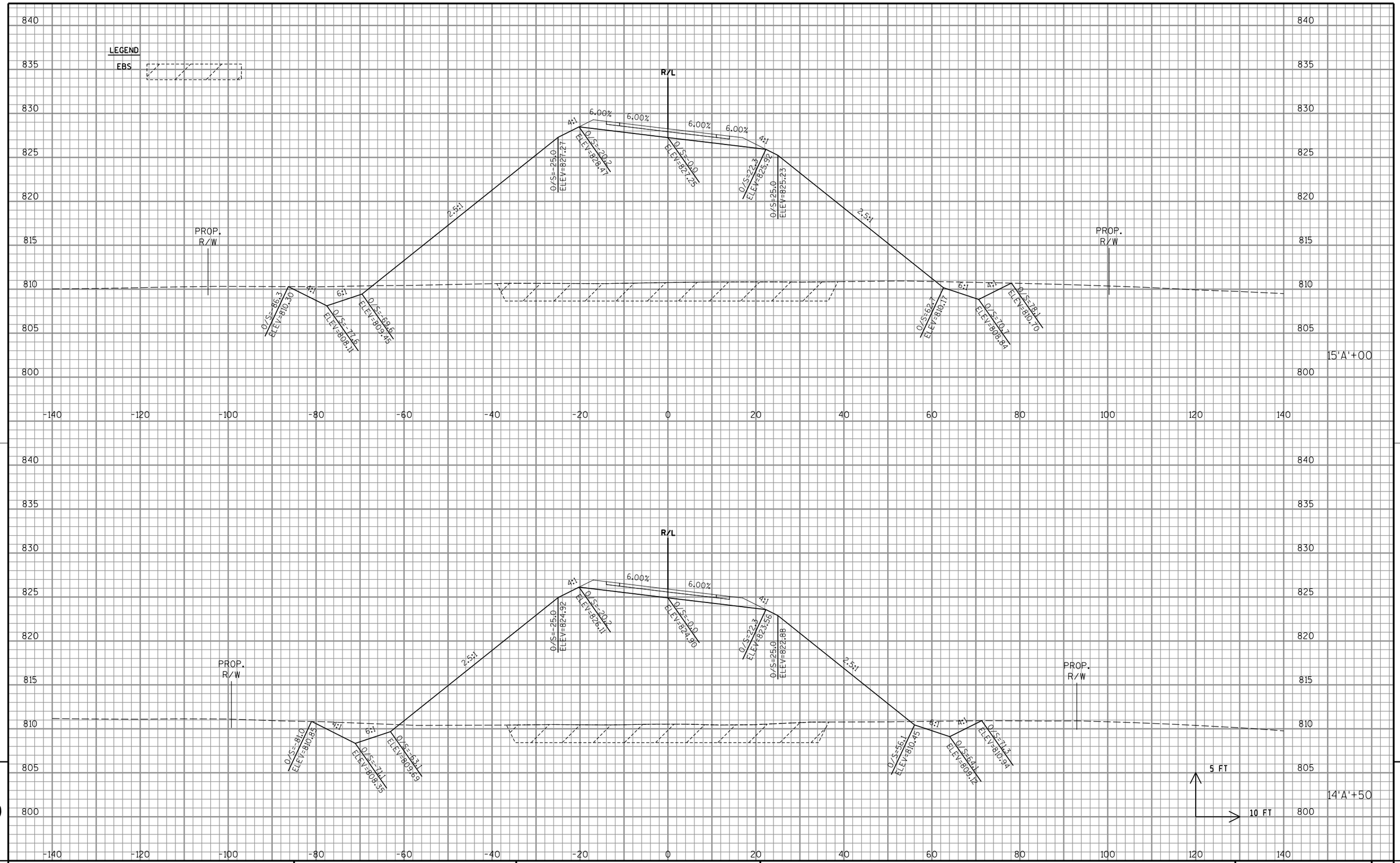
PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\090204_xs.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

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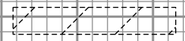
LEGEND

EBS



R/L

6.00%

6.00%

6.00%

6.00%

4:1

4:1

2.5:1

2.5:1

O/S=25.0
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O/S=20.2
ELEV=830.72

O/S=00.0
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O/S=22.3
ELEV=827.97

O/S=25.0
ELEV=827.29

O/S=90.0
ELEV=809.57

O/S=33.3
ELEV=807.87

O/S=75.3
ELEV=809.21

O/S=568.5
ELEV=809.89

O/S=76.5
ELEV=808.55

O/S=93.7
ELEV=810.36

PROP.
R/W

PROP.
R/W

5 FT

10 FT

15'A'+50

840
835
830
825
820
815
810
805
800
845

-140 -120 -100 -80 -60 -40 -20 0 20 40 60 80 100 120 140

9

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PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E

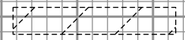
FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\090204_xs.dgn

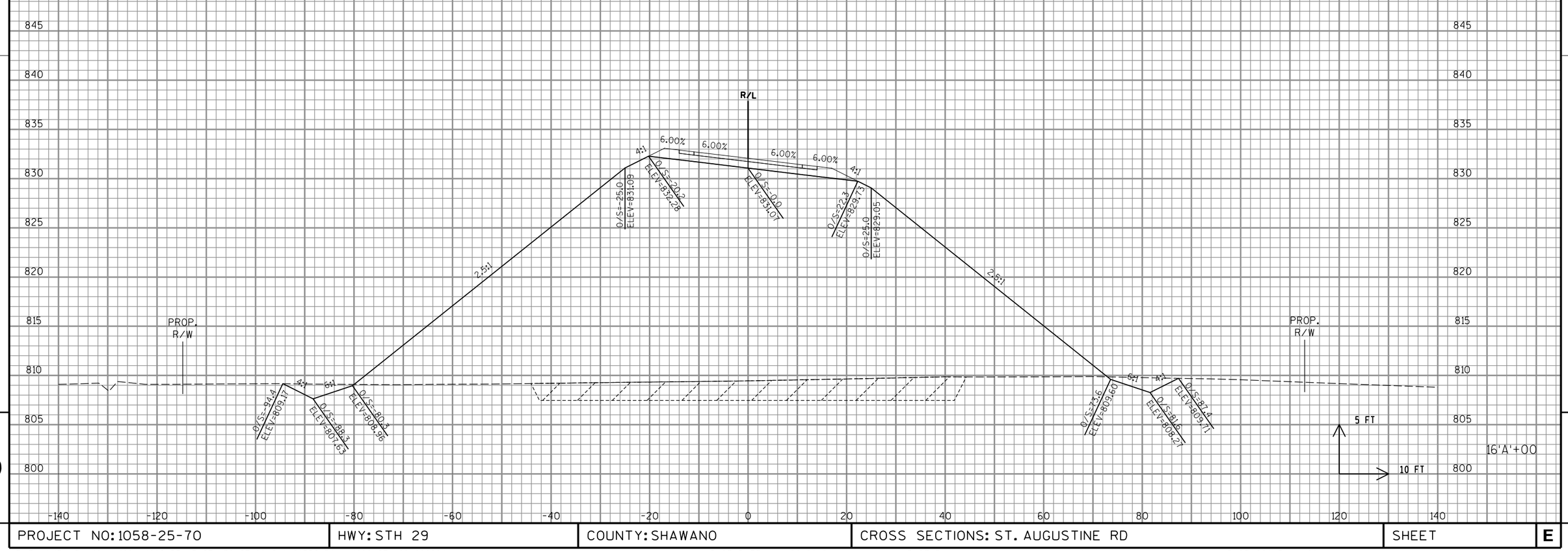
PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

LEGEND

EBS





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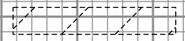
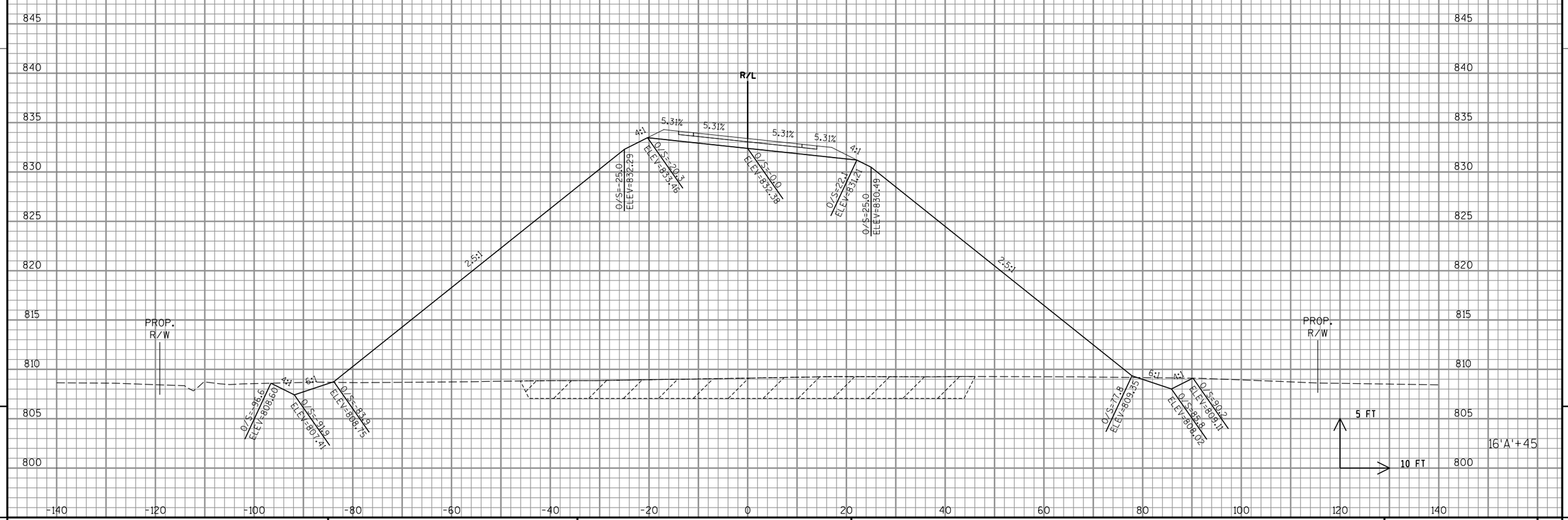
PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E

LEGEND

EBS





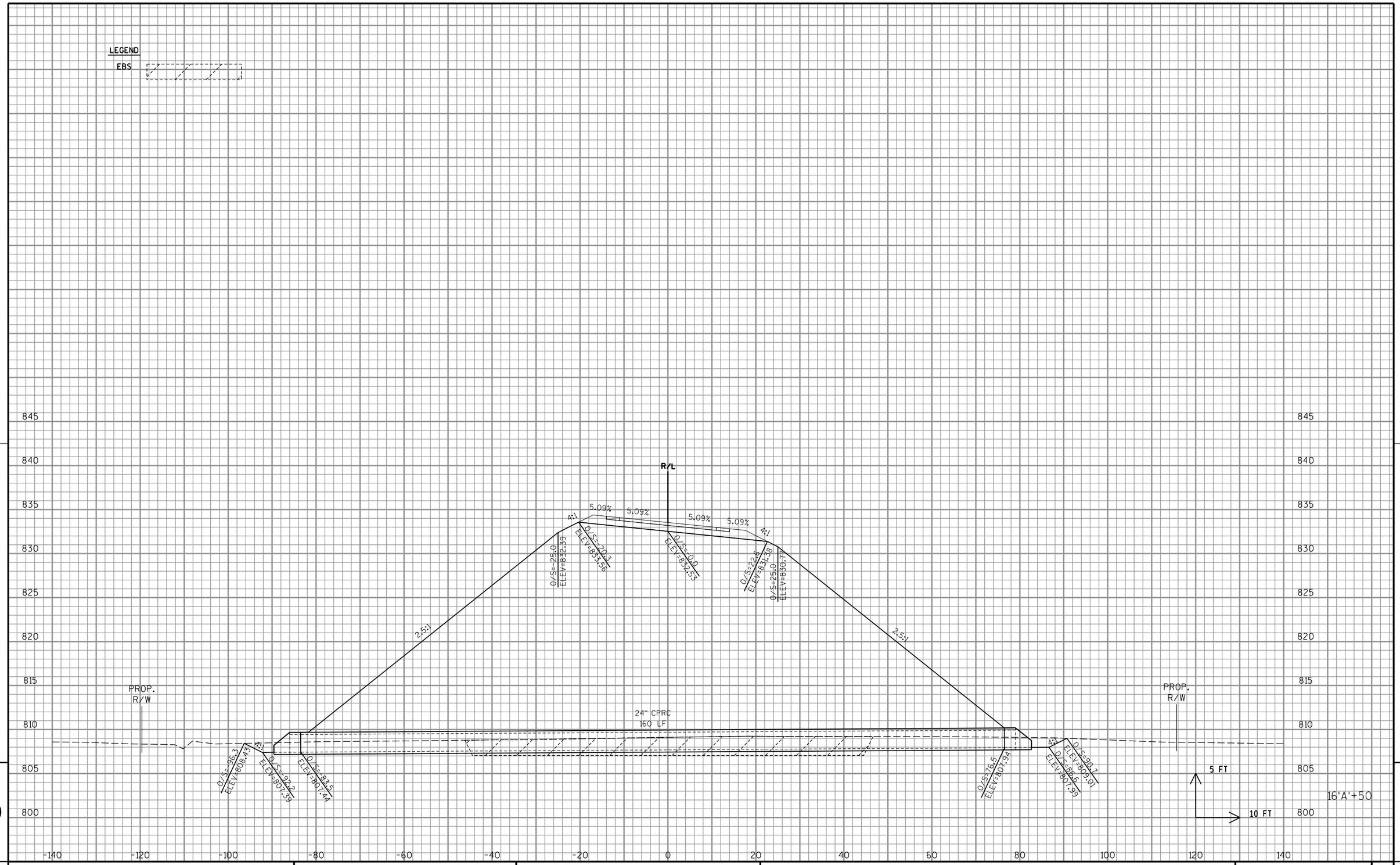
PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\090204_xs.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

LEGEND

EBS



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PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\090204_xs.dgn

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PLOT BY : sgc

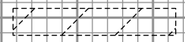
PLOT NAME :

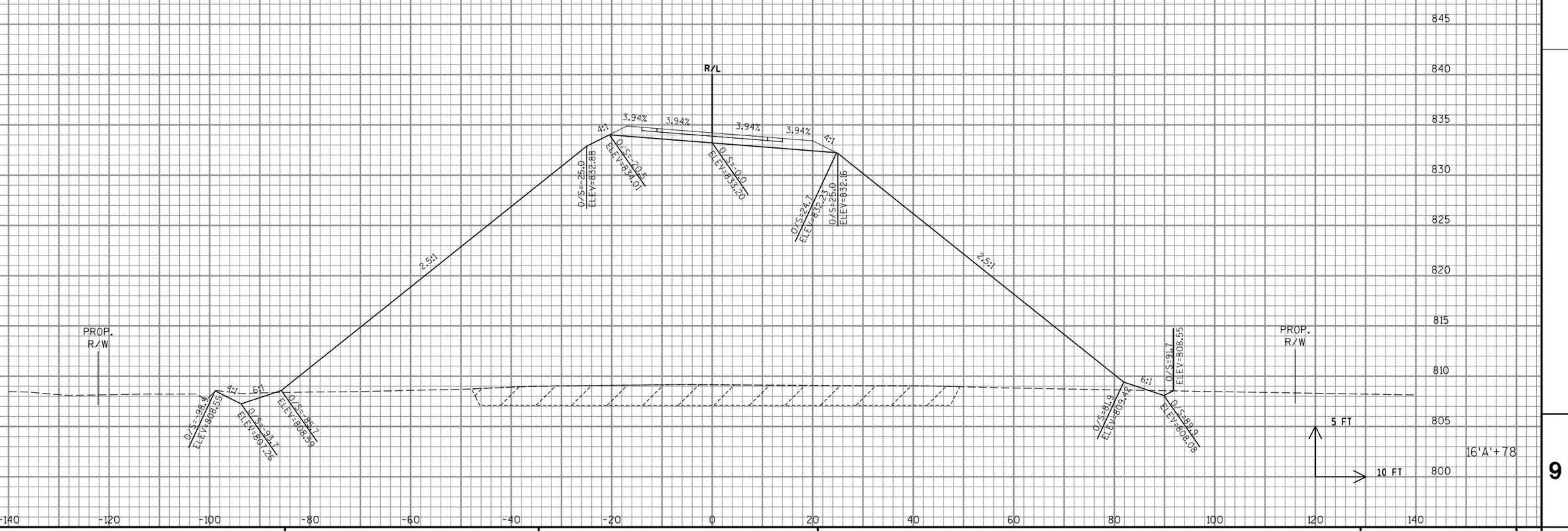
PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

LEGEND

EBS





PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E

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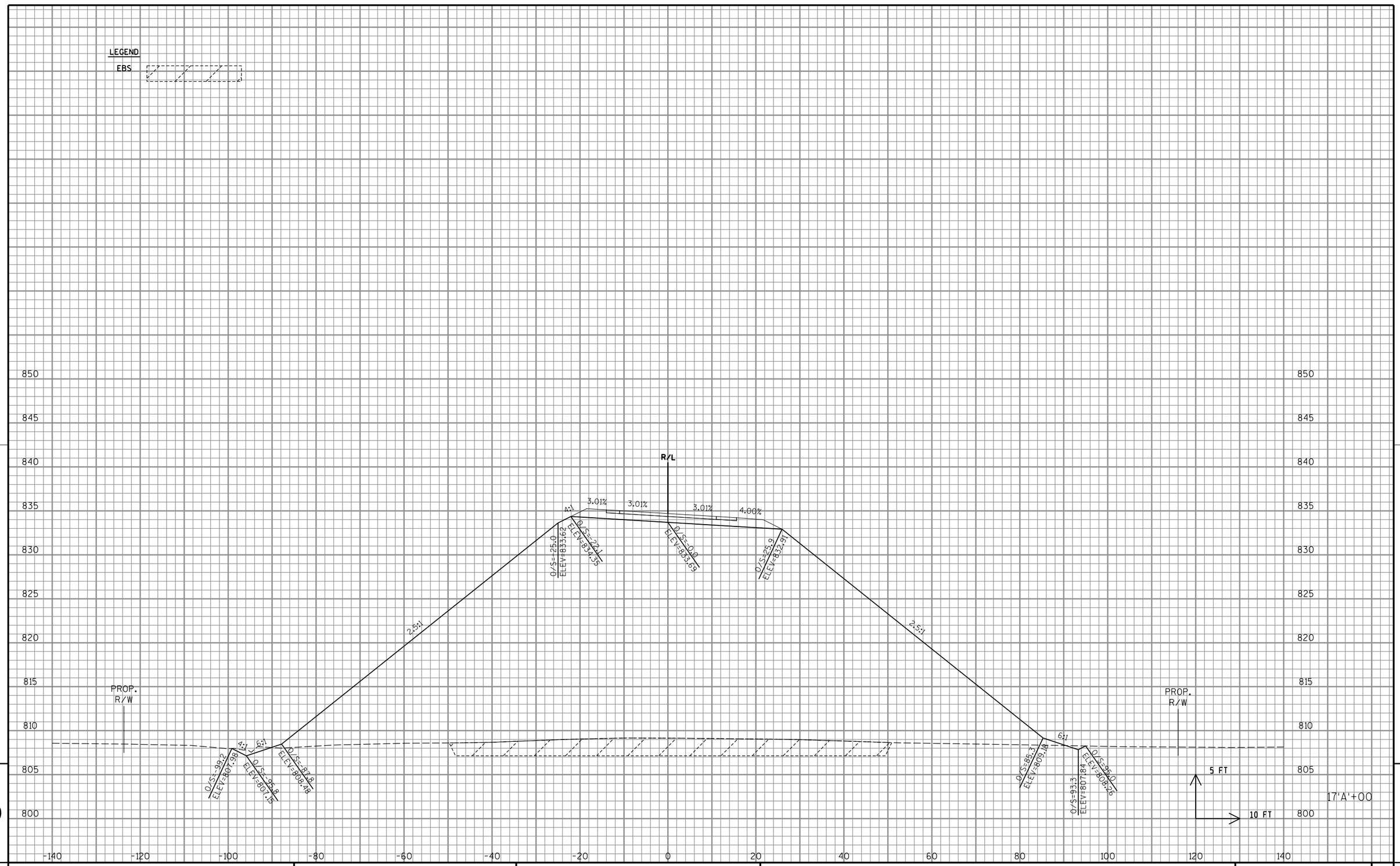
WISDOT/CADDS SHEET 21

LEGEND

EBS



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PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\090204_xs.dgn

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LEGEND

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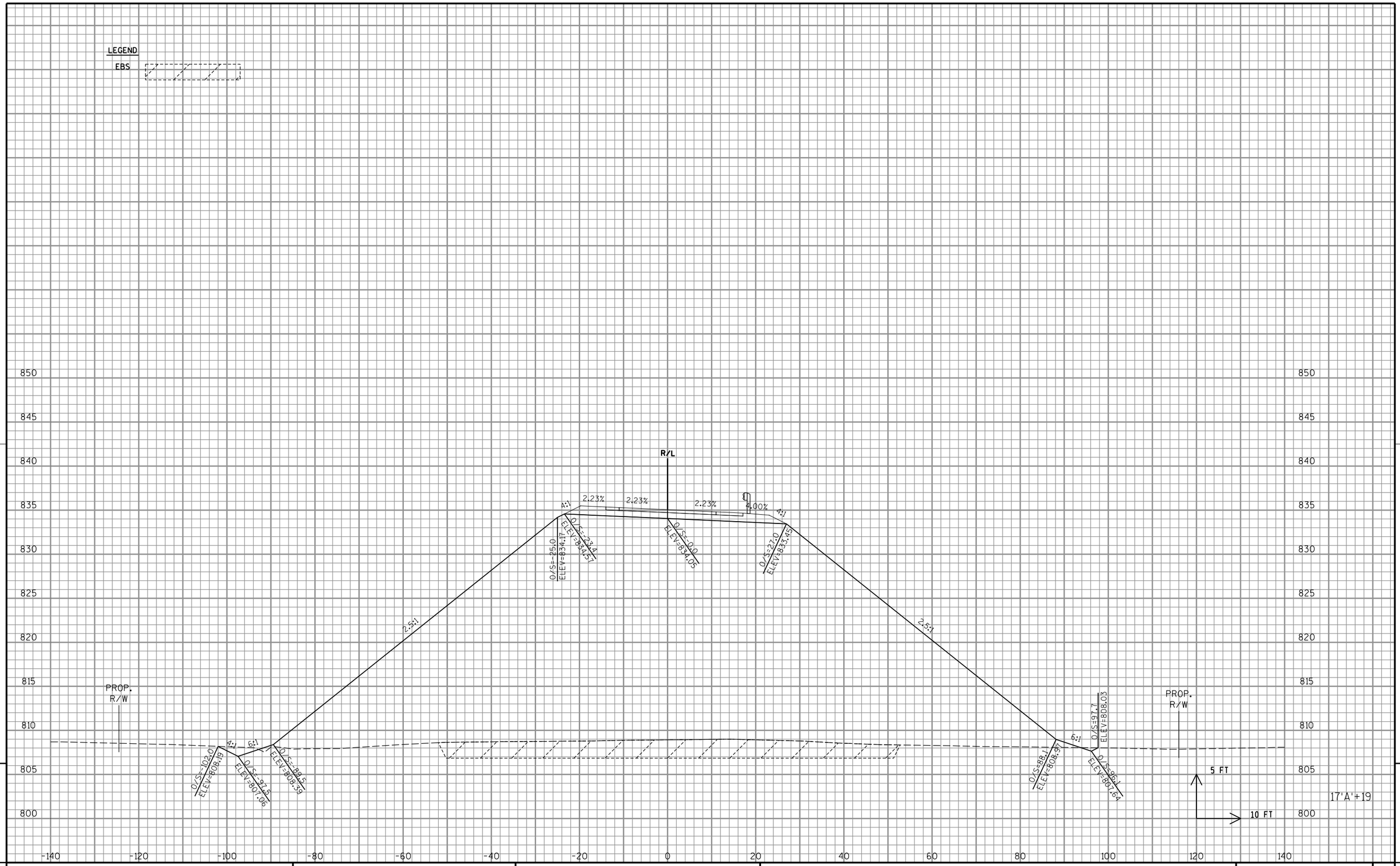

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PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E

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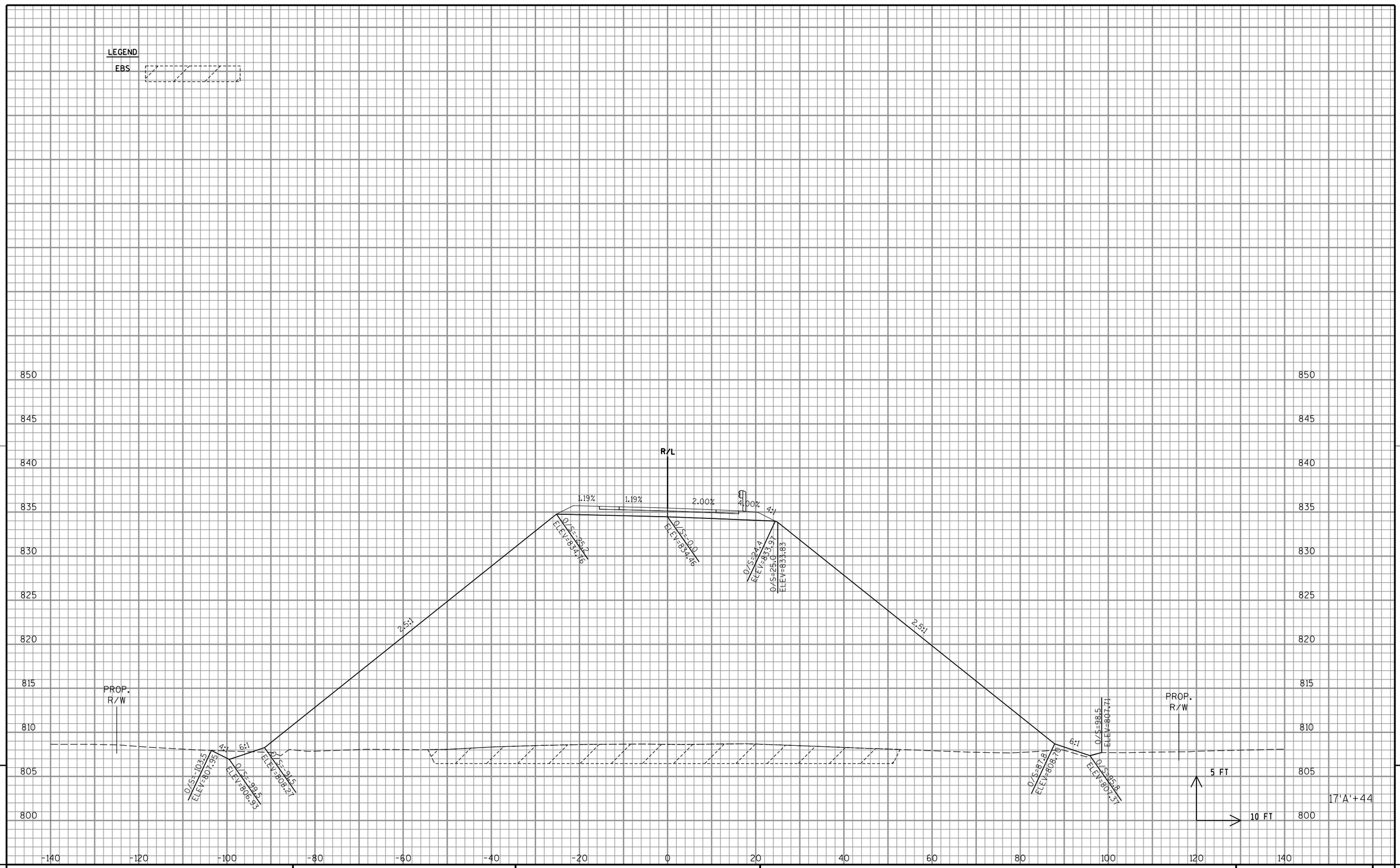
LEGEND

EBS



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PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E

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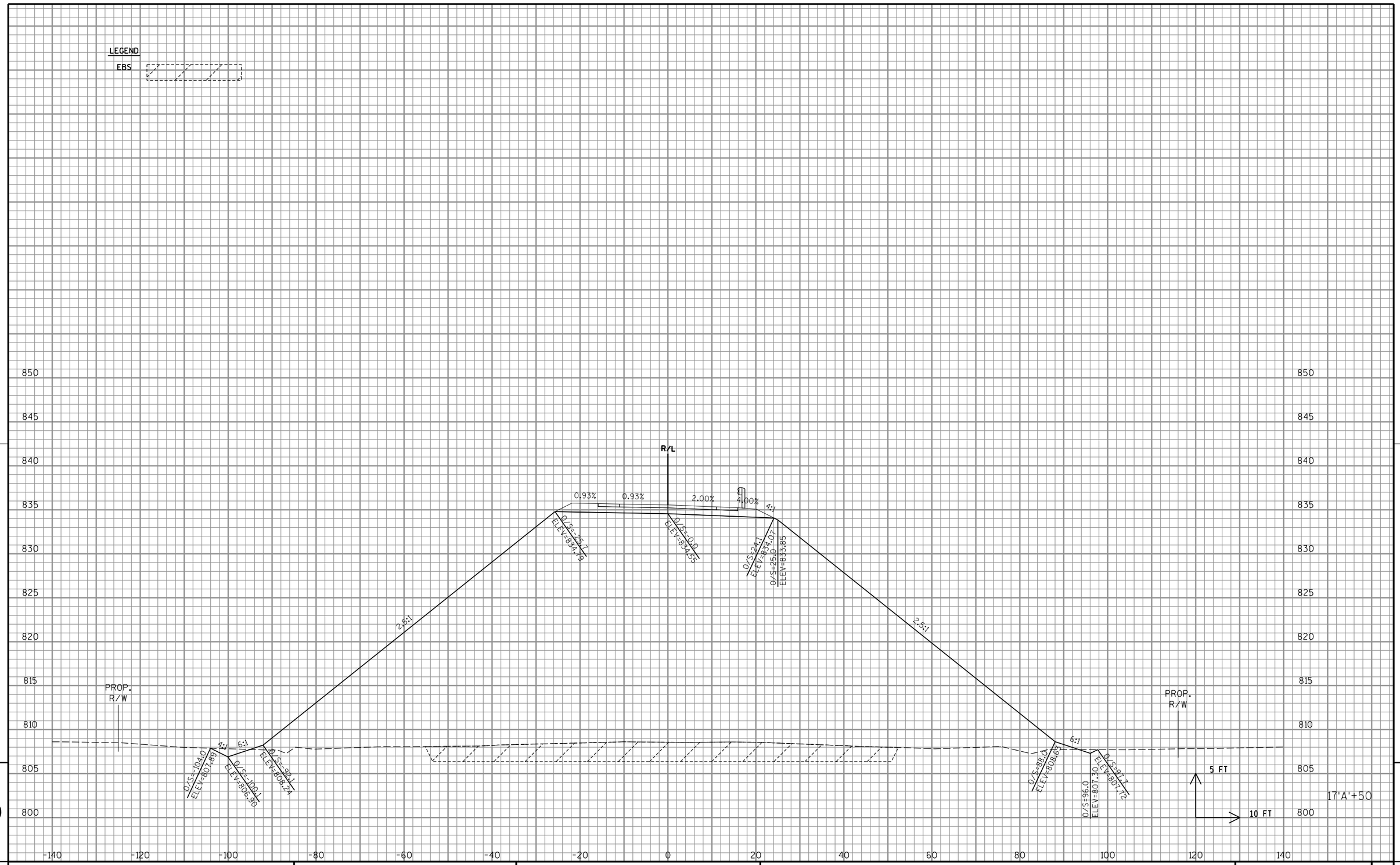
PLOT NAME :

PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

LEGEND

EBS



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PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E

LEGEND

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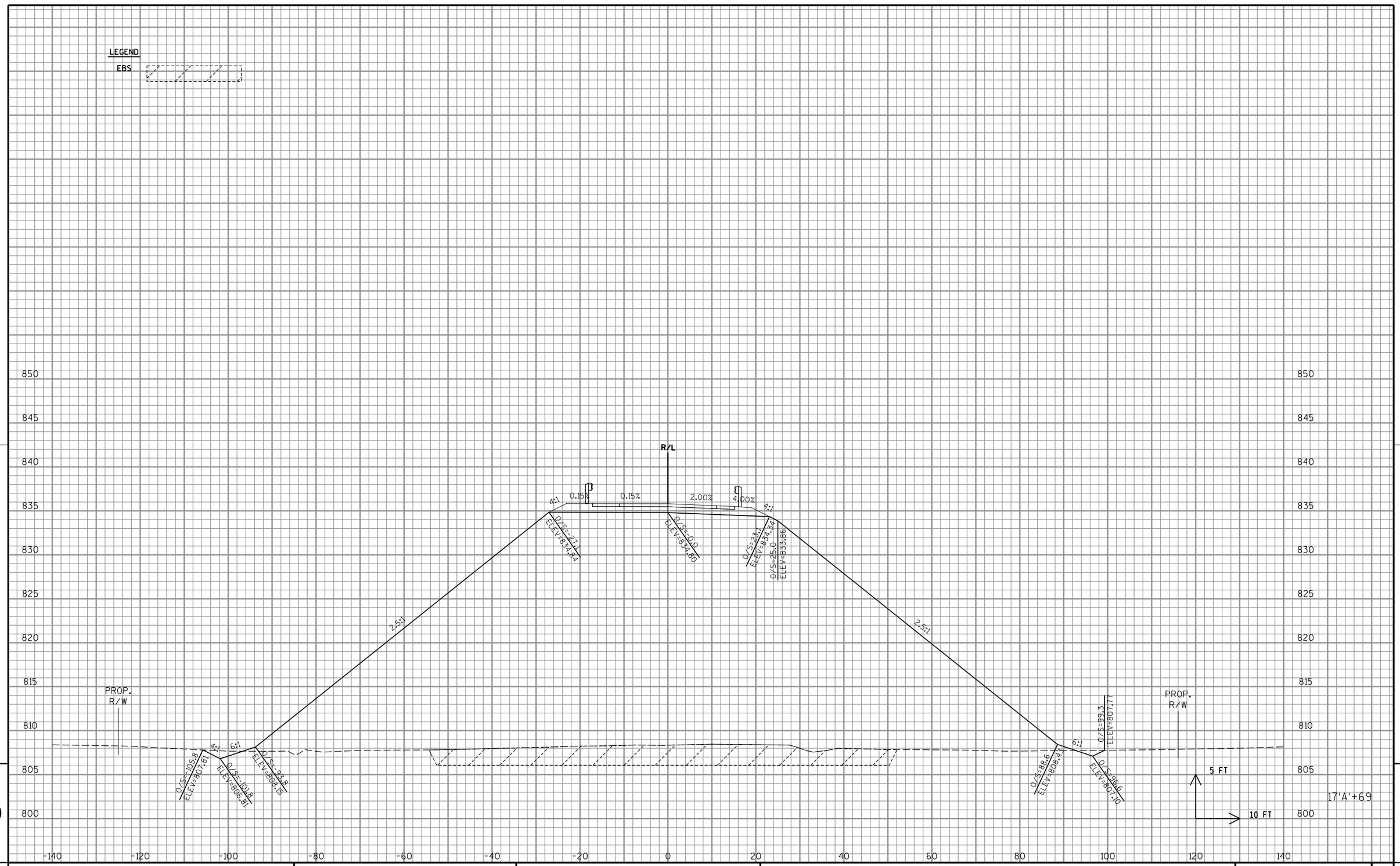

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PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E

LEGEND

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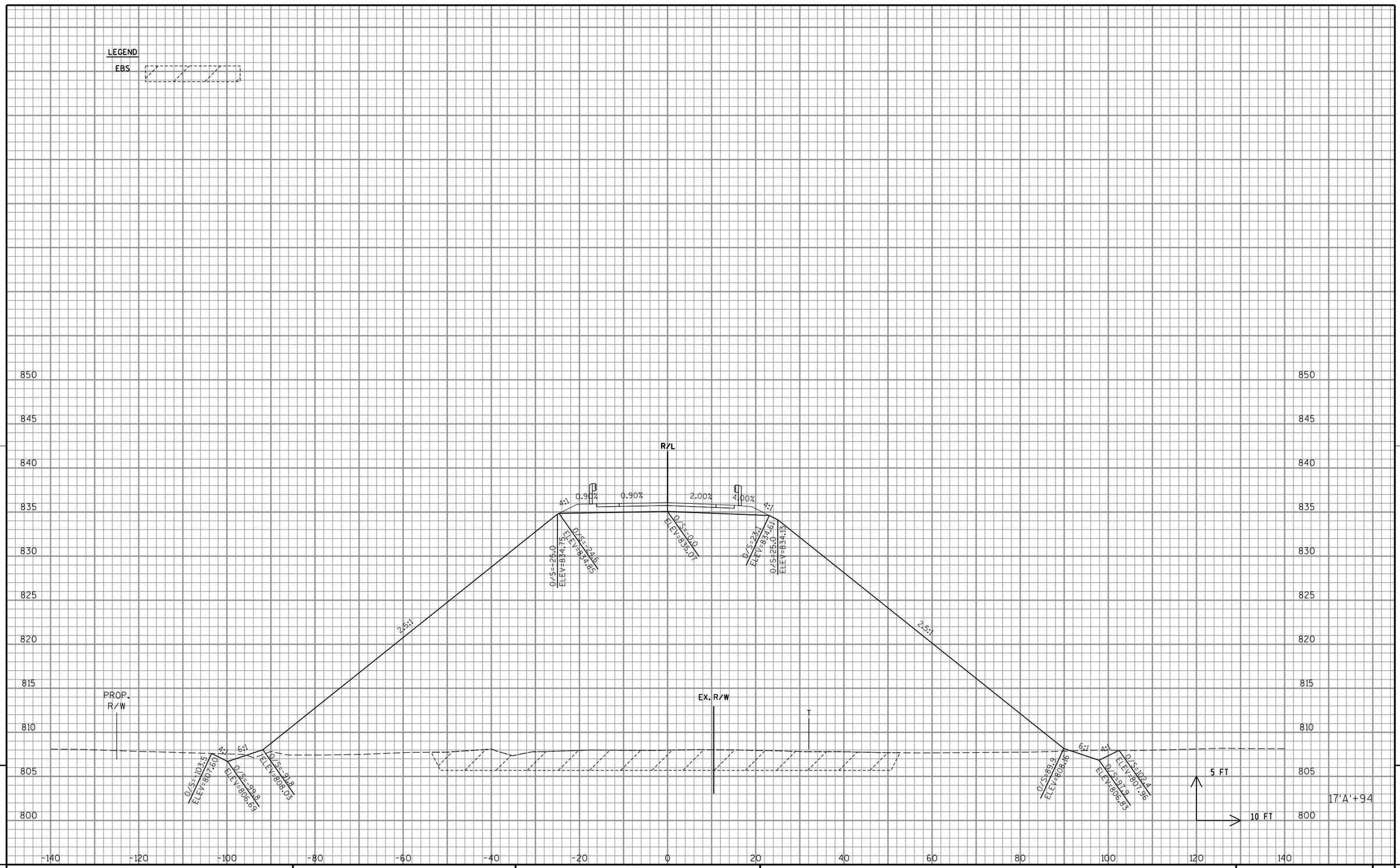

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E

LEGEND

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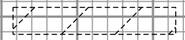

R/L

1.16%

1.16%

2.00%

4.00%

4:1

4:1

2.5:1

2.5:1

O/S=25.0
ELEV=834.27

O/S=22.3
ELEV=834.44

O/S=0.0
ELEV=835.17

O/S=23.1
ELEV=834.66

O/S=25.0
ELEV=834.18

EX. R/W

PROP. R/W

T

6:1

4:1

O/S=103.4
ELEV=807.59

O/S=99.7
ELEV=806.86

O/S=91.7
ELEV=808.00

O/S=90.2
ELEV=808.09

O/S=98.2
ELEV=806.76

O/S=103.3
ELEV=808.04

5 FT

10 FT

18'A'+00

850 845 840 835 830 825 820 815 810 805 800

-140 -120 -100 -80 -60 -40 -20 0 20 40 60 80 100 120 140

9

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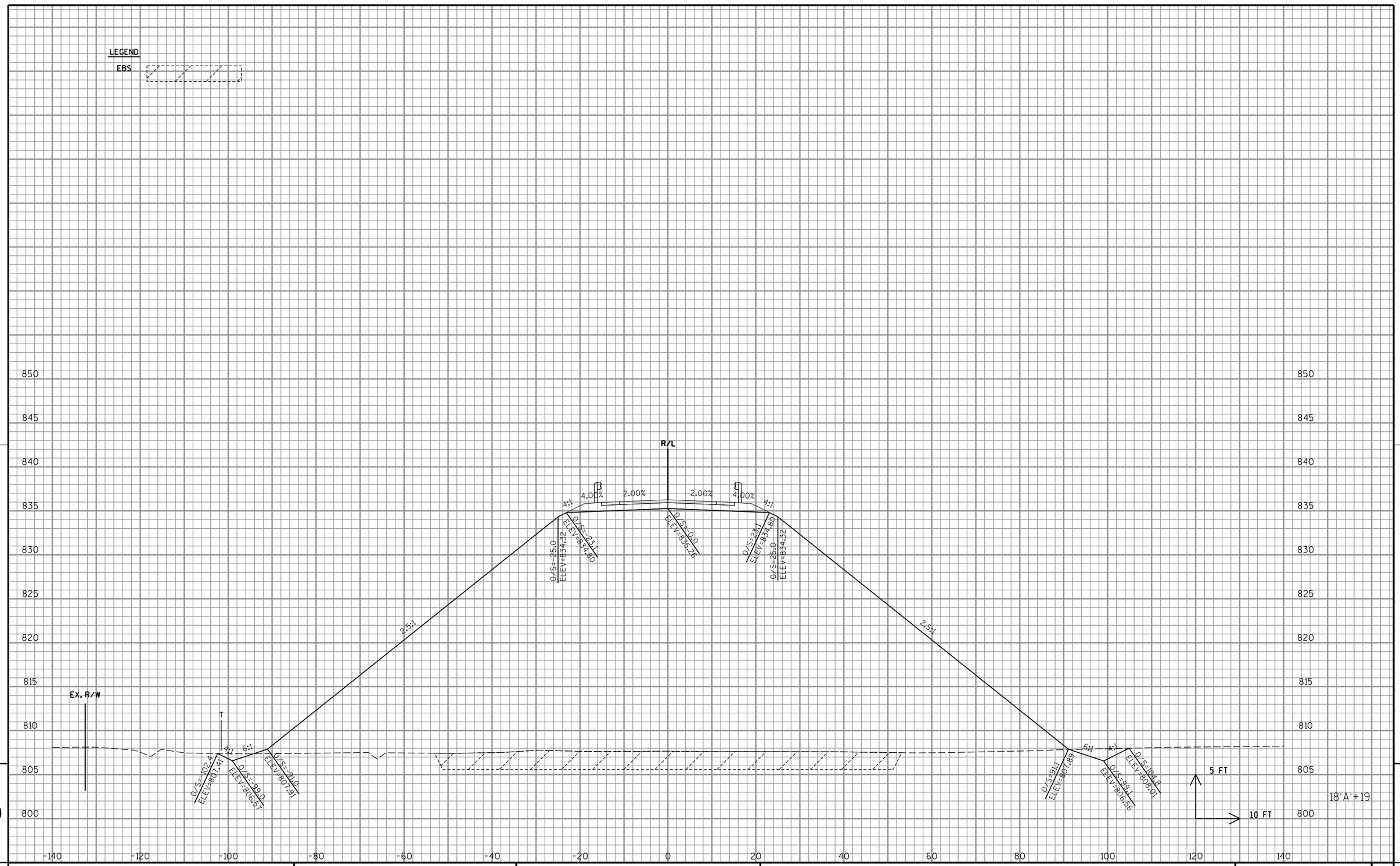
PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\090204_xs.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

LEGEND

EBS



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PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E

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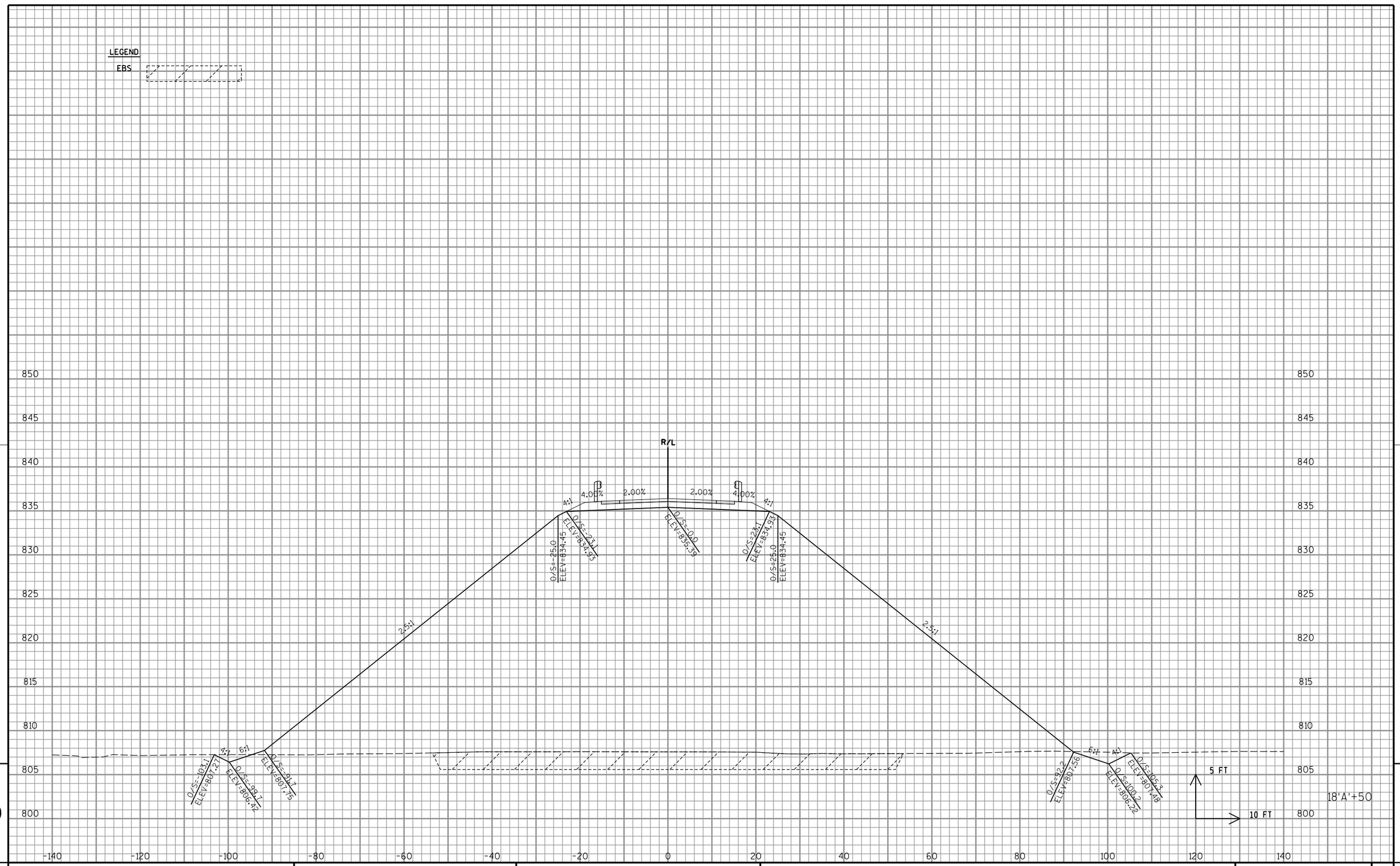
PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

LEGEND

EBS



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PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\090204_xs.dgn

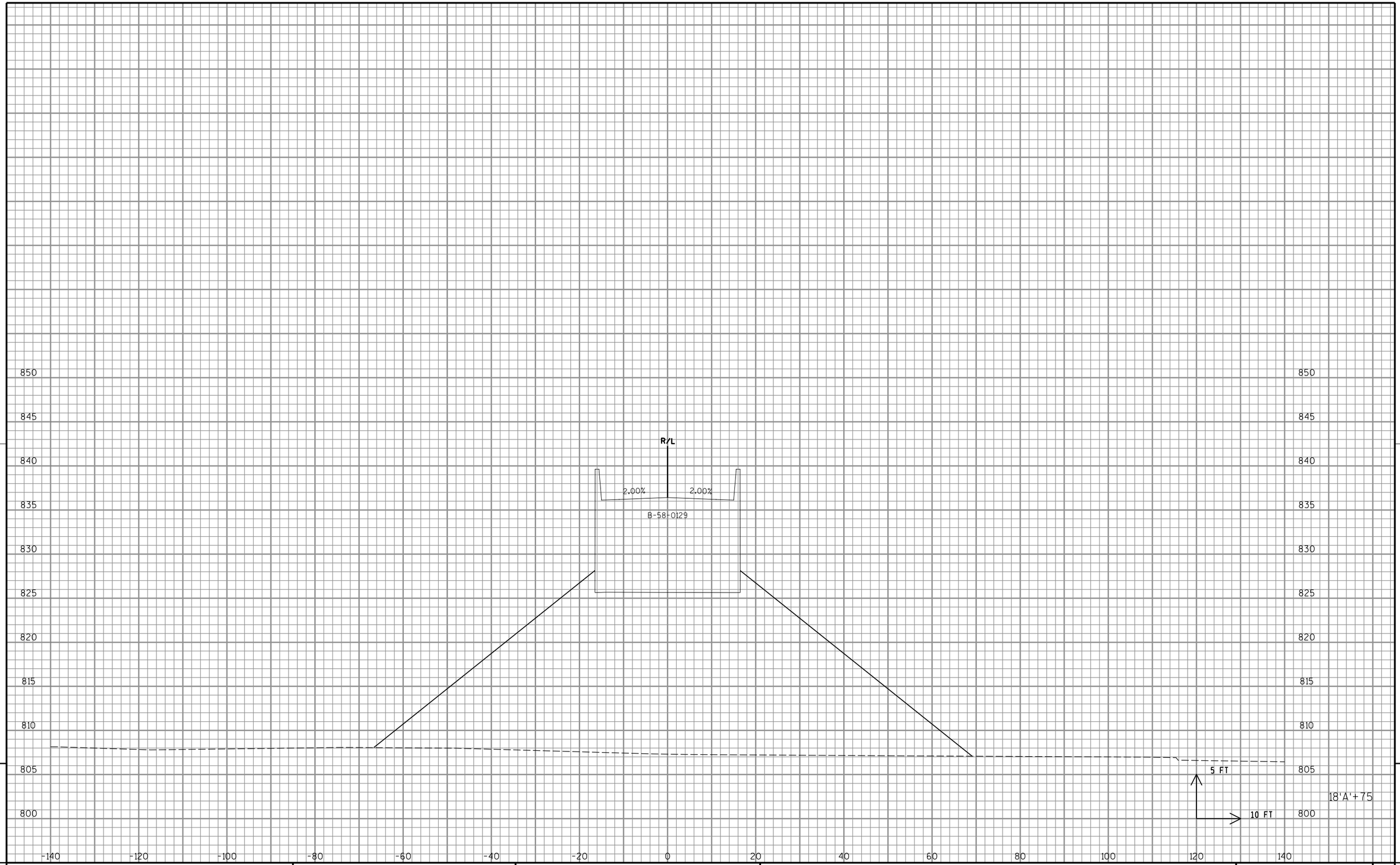
PLOT DATE : 11/29/2016

PLOT BY : sgc

PLOT NAME :

PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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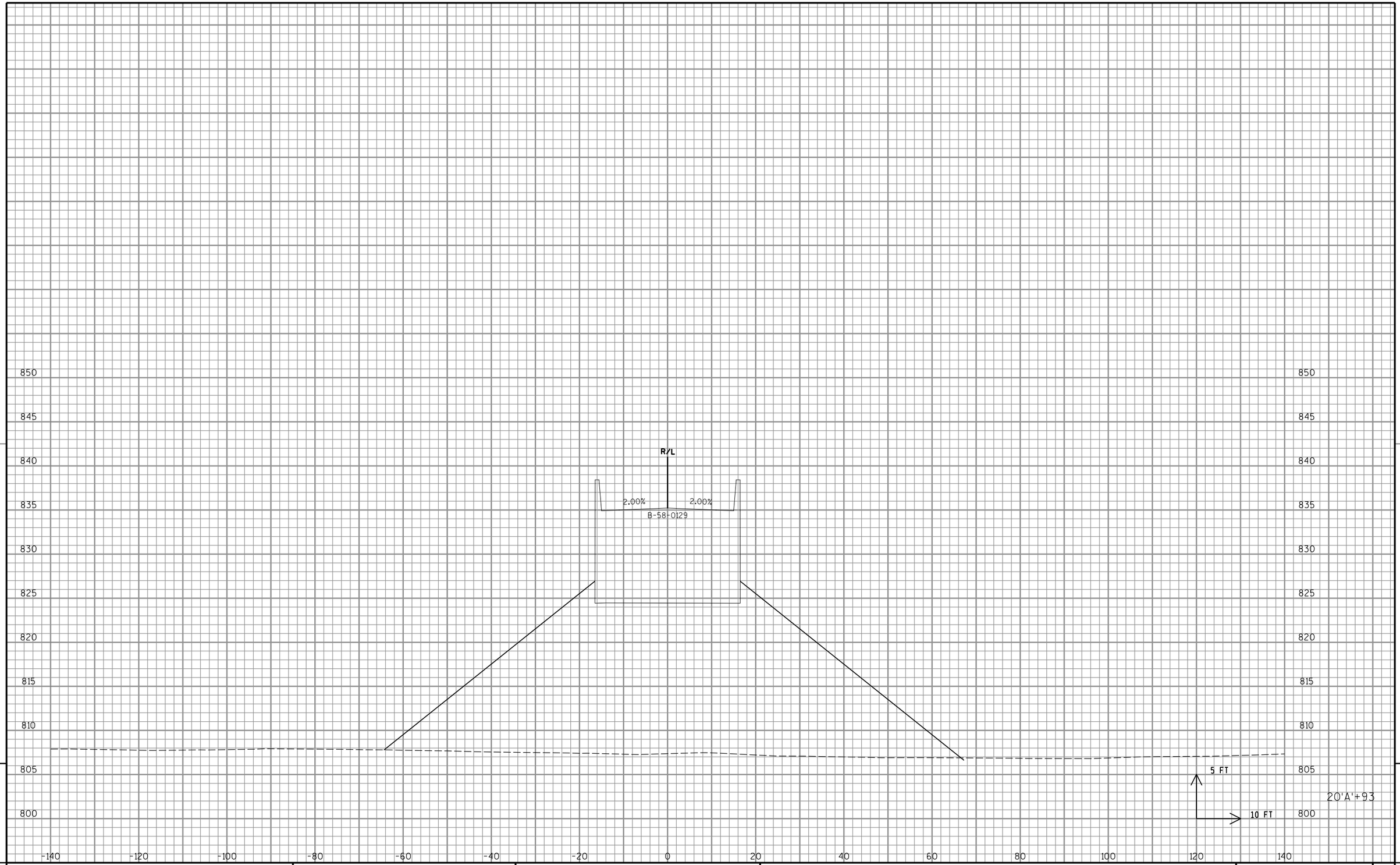
PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\090204_xs.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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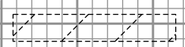
PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E

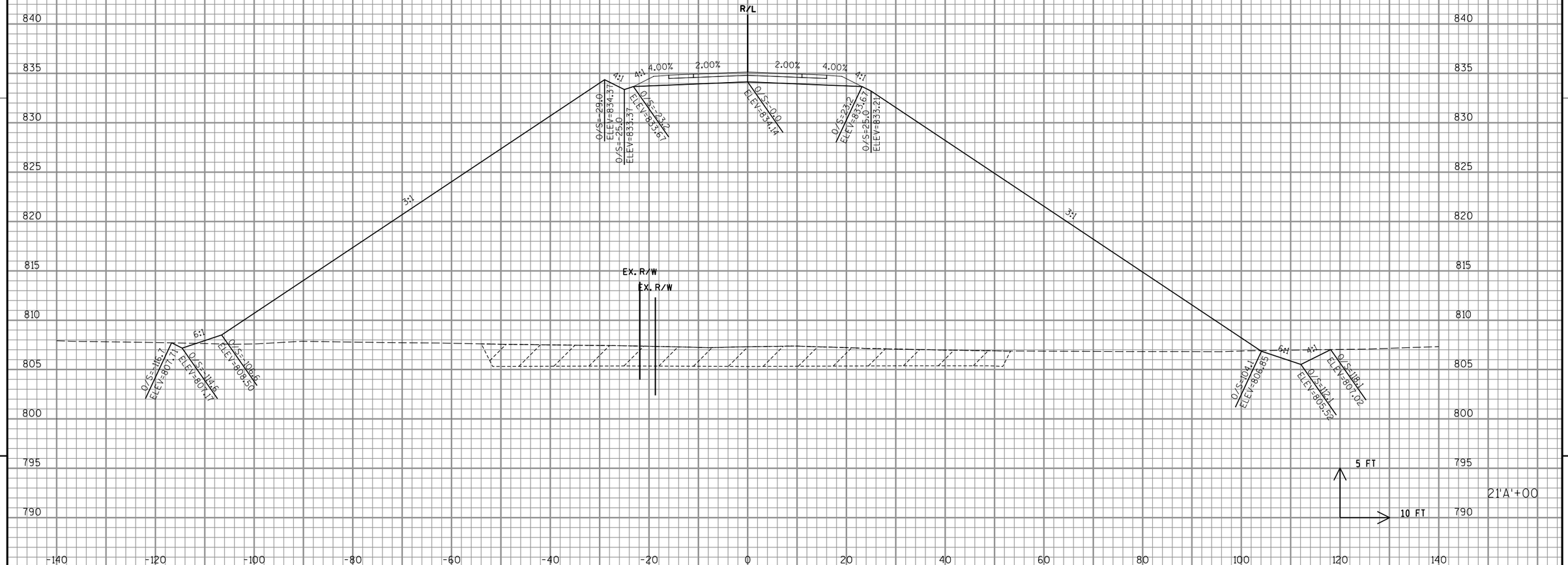
FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\090204_xs.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

LEGEND

EBS

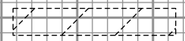


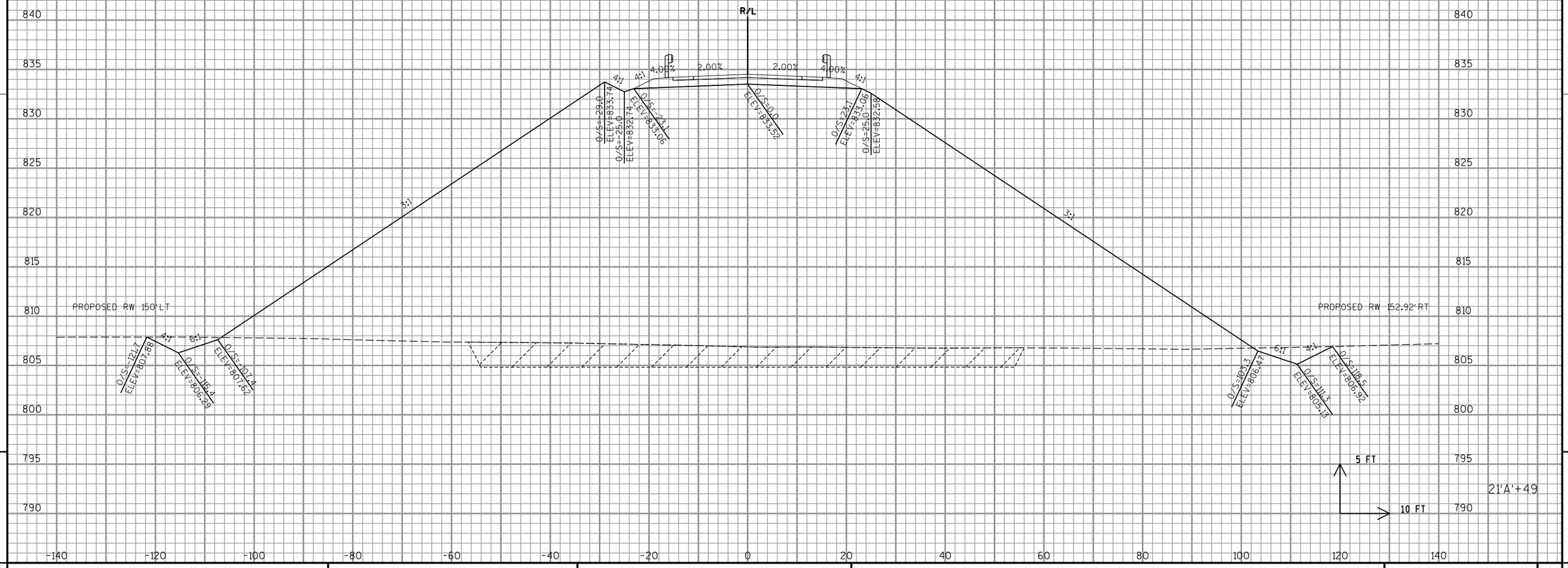


PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E

LEGEND

EBS





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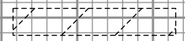
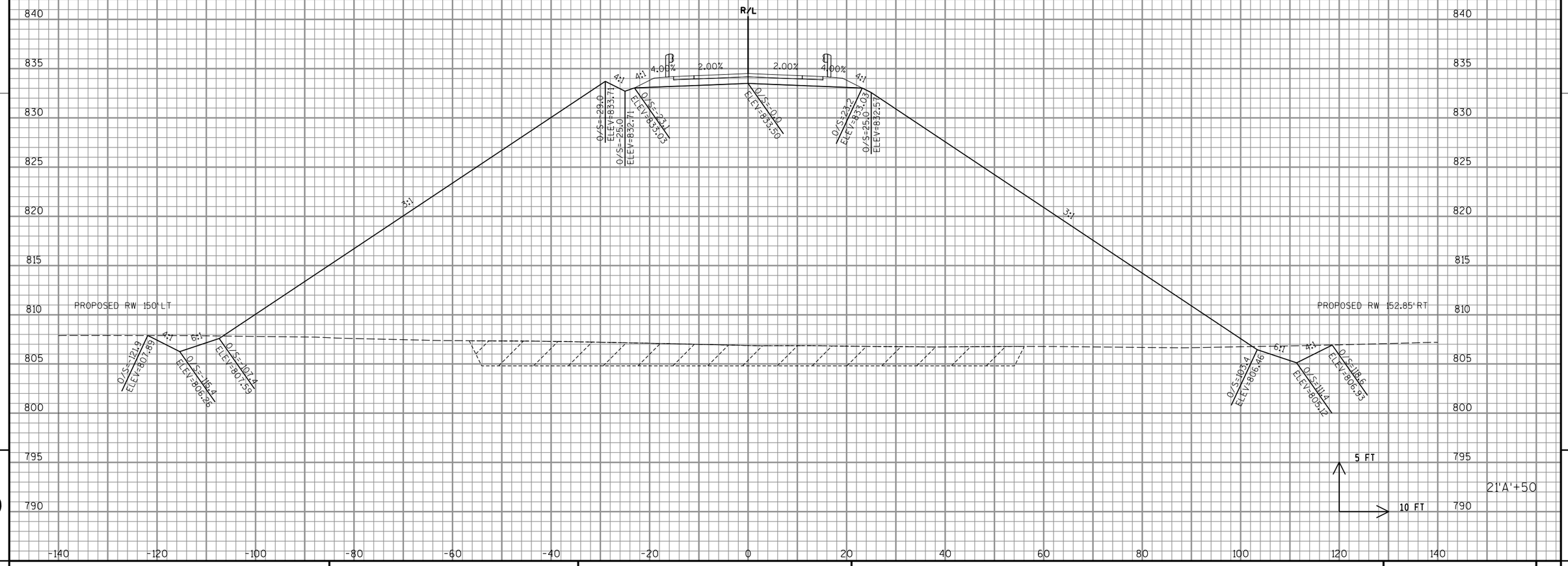
PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\090204_xs.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

LEGEND

EBS





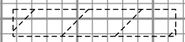
PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET E

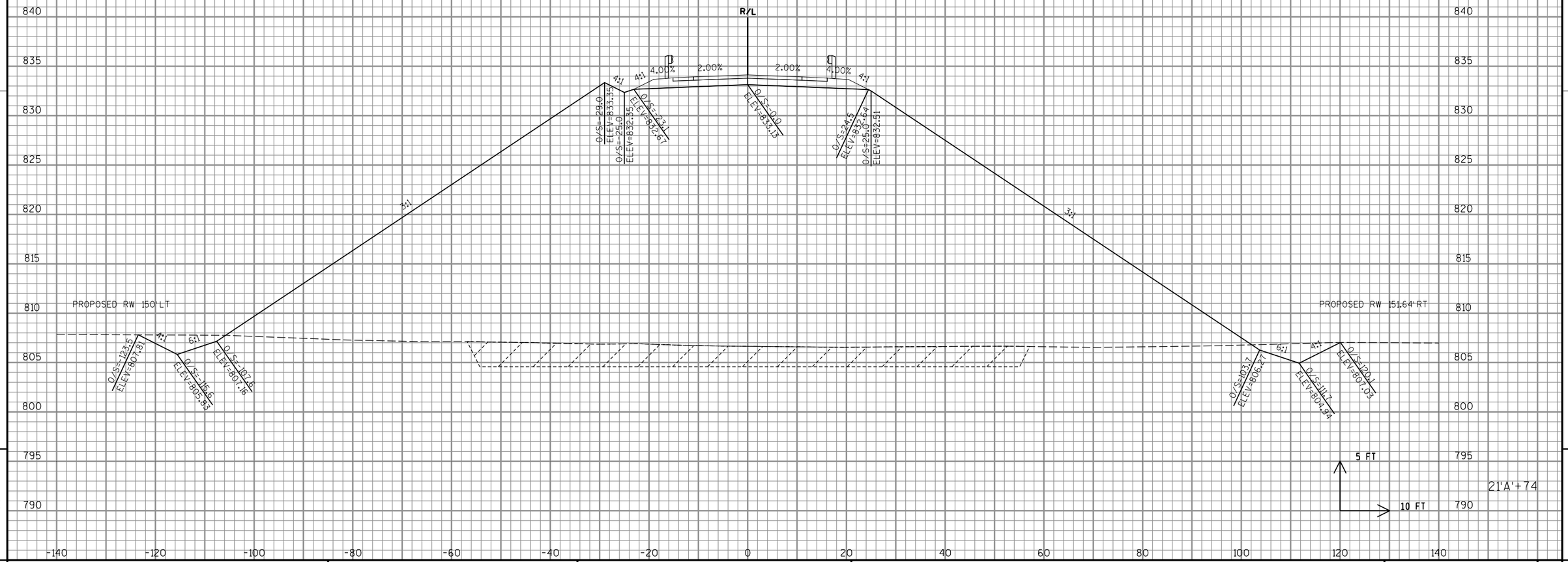
FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\090204_xs.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

LEGEND

EBS

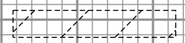


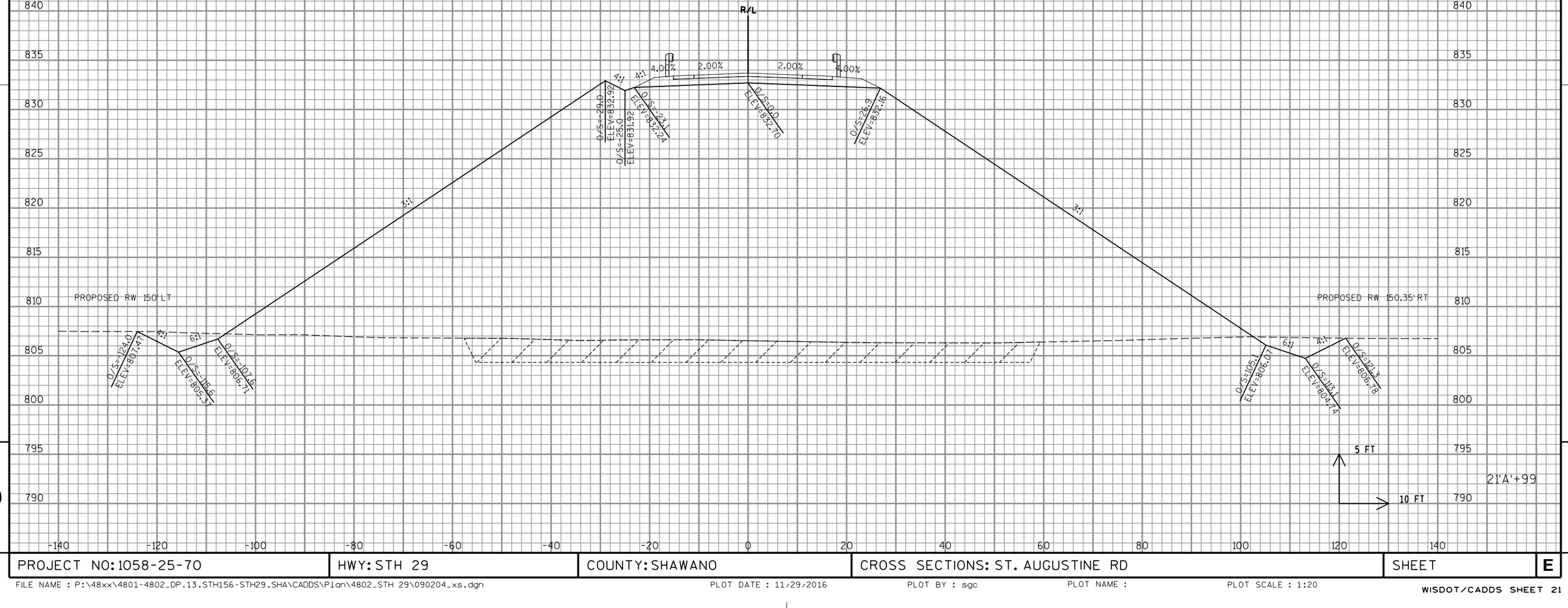


PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E

LEGEND

EBS





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PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E

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PLOT DATE : 11/29/2016

PLOT BY : sgc

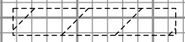
PLOT NAME :

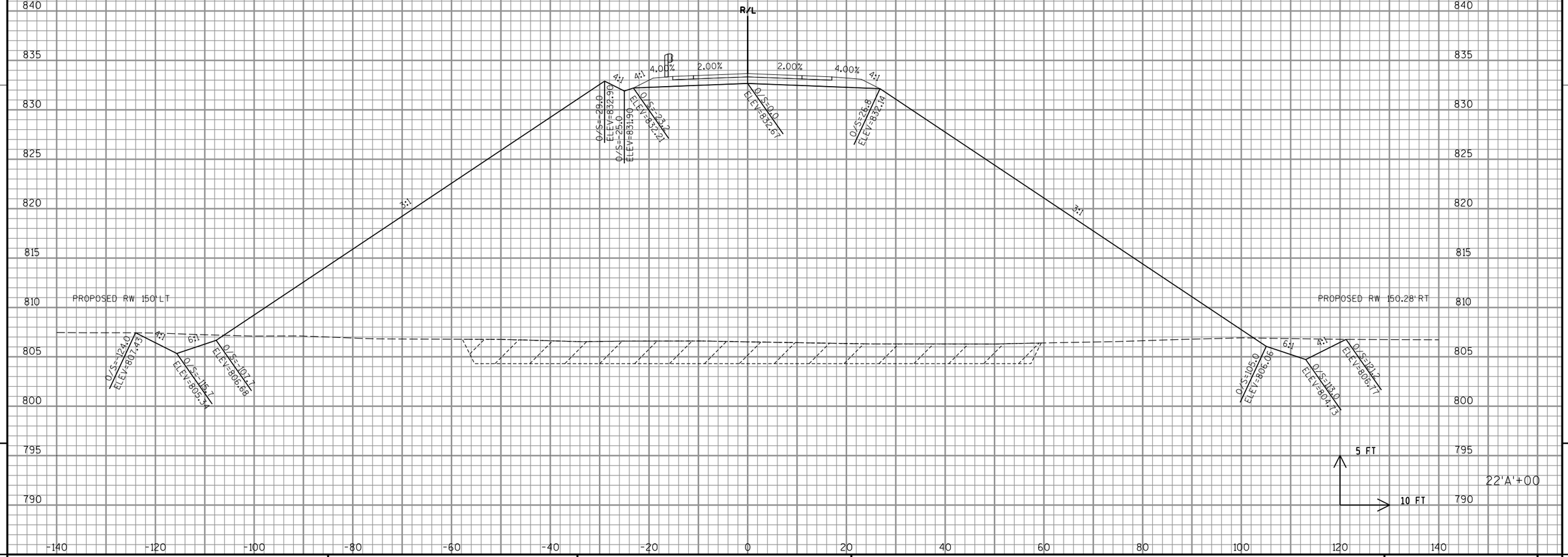
PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

LEGEND

EBS





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PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E

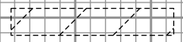
FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\090204_xs.dgn

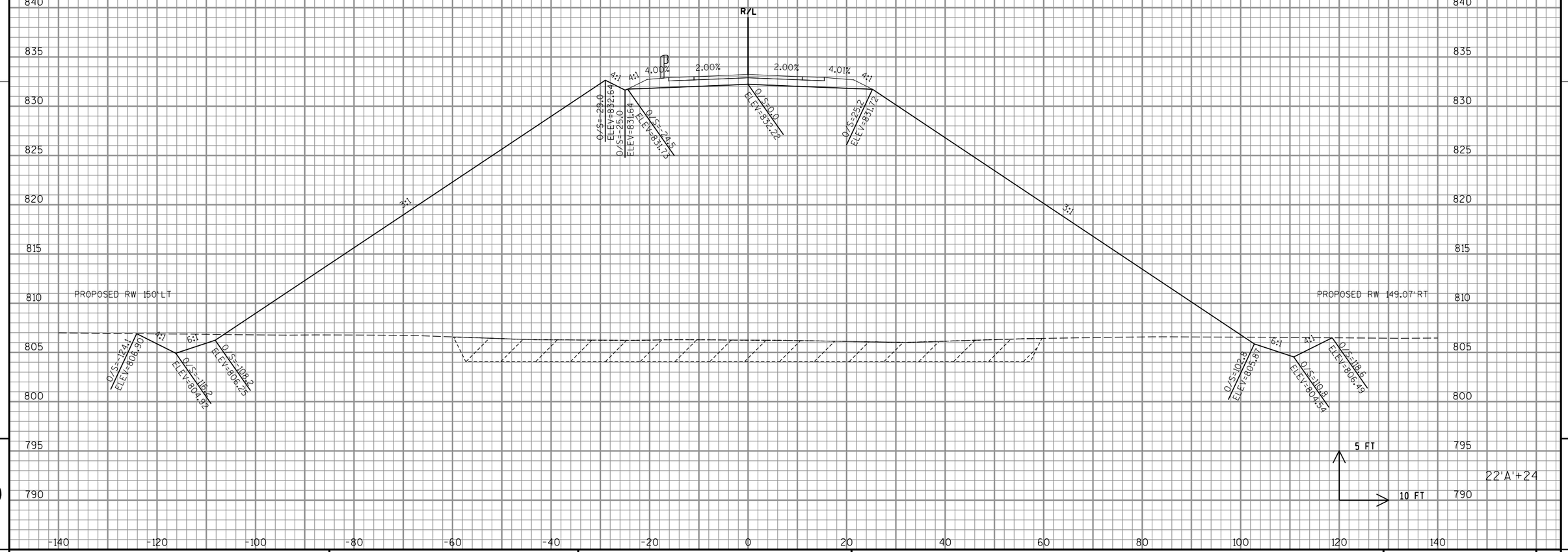
PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

LEGEND

EBS





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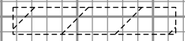
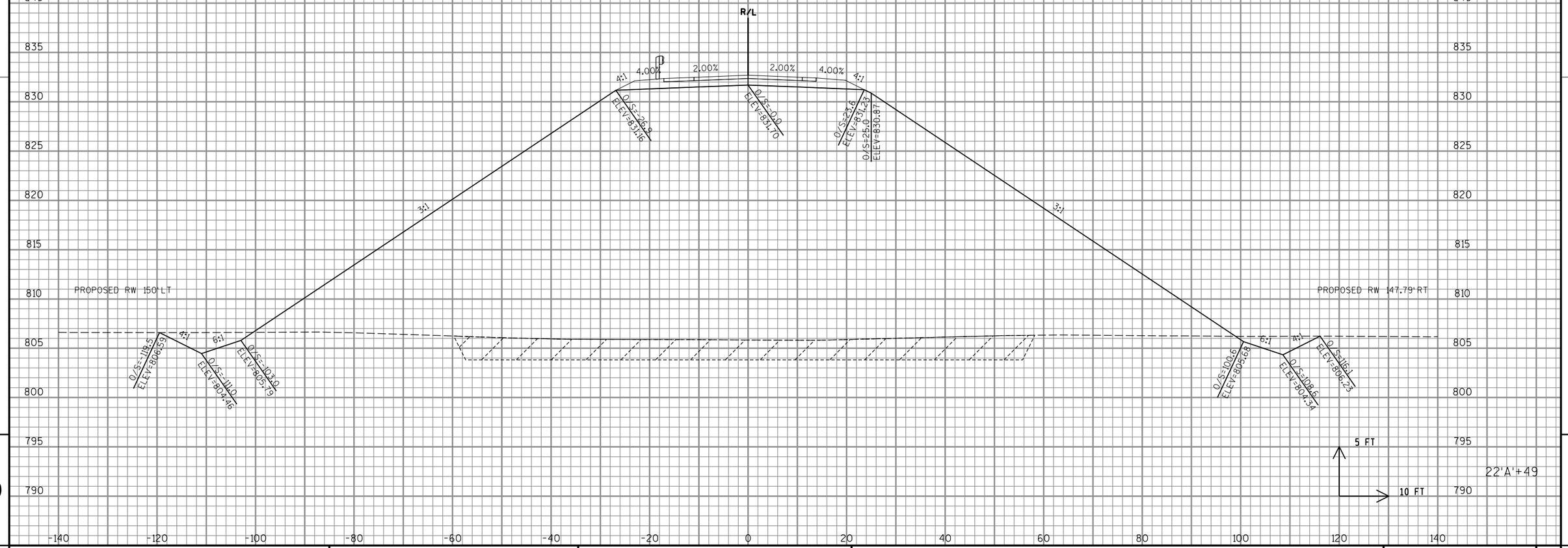
PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E

LEGEND

EBS





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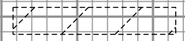
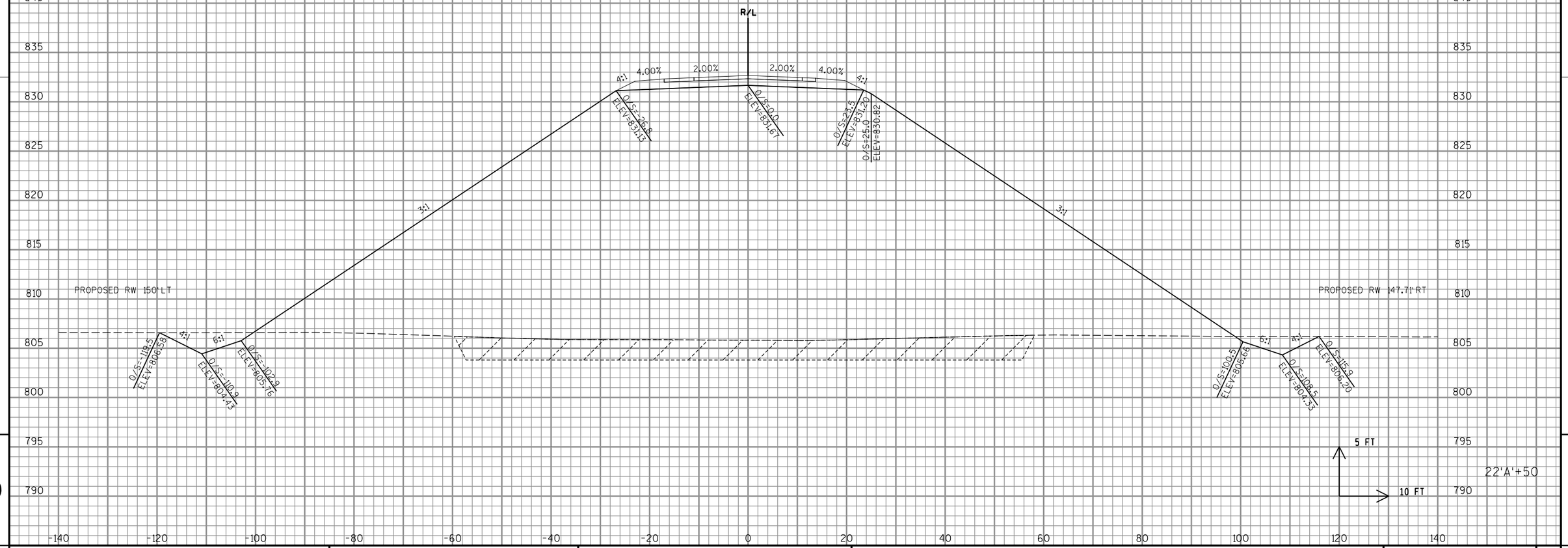
PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E

LEGEND

EBS





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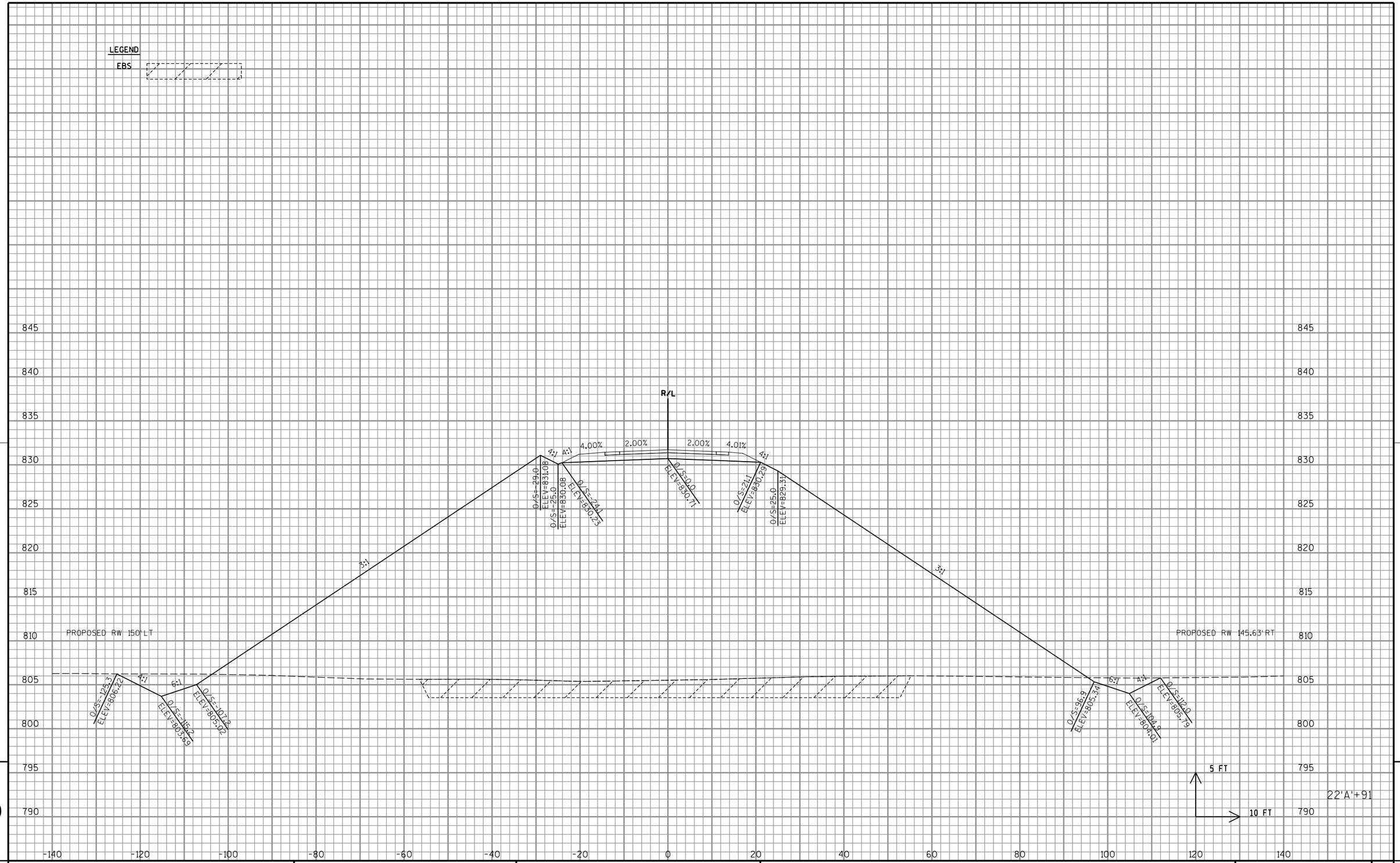
PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E

LEGEND

EBS



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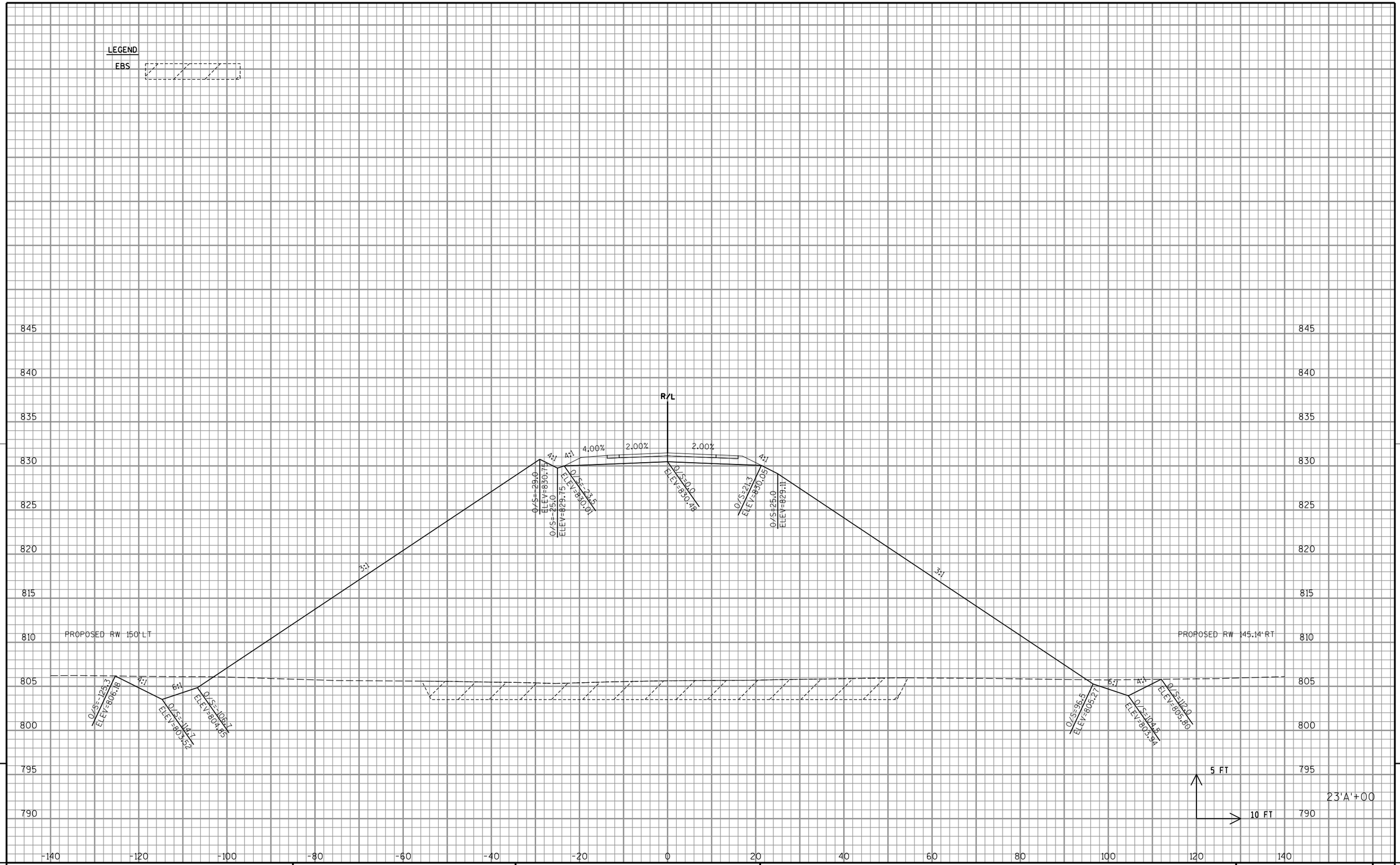
PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E

LEGEND

EBS



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\090204_xs.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

LEGEND

EBS

R/L

4.00% 2.00% 2.00% 4.00%

4:1 6:1 4:1 4:1

O/S=29.0
ELEV=829.26
O/S=25.0
ELEV=828.26
O/S=20.8
ELEV=828.96
O/S=0.0
ELEV=829.37
O/S=20.8
ELEV=828.96
O/S=25.0
ELEV=827.91

3.4:1

3:1

PROP.
R/W

PROPOSED RW 143.06'RT

O/S=135.0
ELEV=805.94
4:1
6:1
O/S=122.3
ELEV=802.78
O/S=114.3
ELEV=804.11
O/S=93.3
ELEV=805.15
6:1
4:1
O/S=101.3
ELEV=805.61
O/S=110.4
ELEV=806.08

5 FT

10 FT

23'A'+41

845 840 835 830 825 820 815 810 805 800 795 790

-160 -140 -120 -100 -80 -60 -40 -20 0 20 40 60 80 100 120

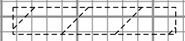
9

9

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E

LEGEND

EBS



R/L

4.00% 2.00% 2.00% 4.00%

4:1 6:1 4:1 4:1

3.5:1 3:1

O/S=29.0
ELEV=828.99
O/S=25.0
ELEV=827.99

O/S=20.8
ELEV=826.68

O/S=0.0
ELEV=829.10

O/S=20.8
ELEV=826.68

O/S=25.0
ELEV=827.69

PROP.
R/W

O/S=138.6
ELEV=805.94

O/S=124.7
ELEV=802.60

O/S=116.7
ELEV=803.94

PROPOSED RW 142.57' RT

O/S=93.6
ELEV=805.12

O/S=100.6
ELEV=803.79

O/S=109.8
ELEV=806.09

5 FT

10 FT

23'A'+50

845 840 835 830 825 820 815 810 805 800 795 790

-160 -140 -120 -100 -80 -60 -40 -20 0 20 40 60 80 100 120

9

9

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\090204_xs.dgn

PLOT DATE : 11/29/2016

PLOT BY : sgc

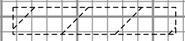
PLOT NAME :

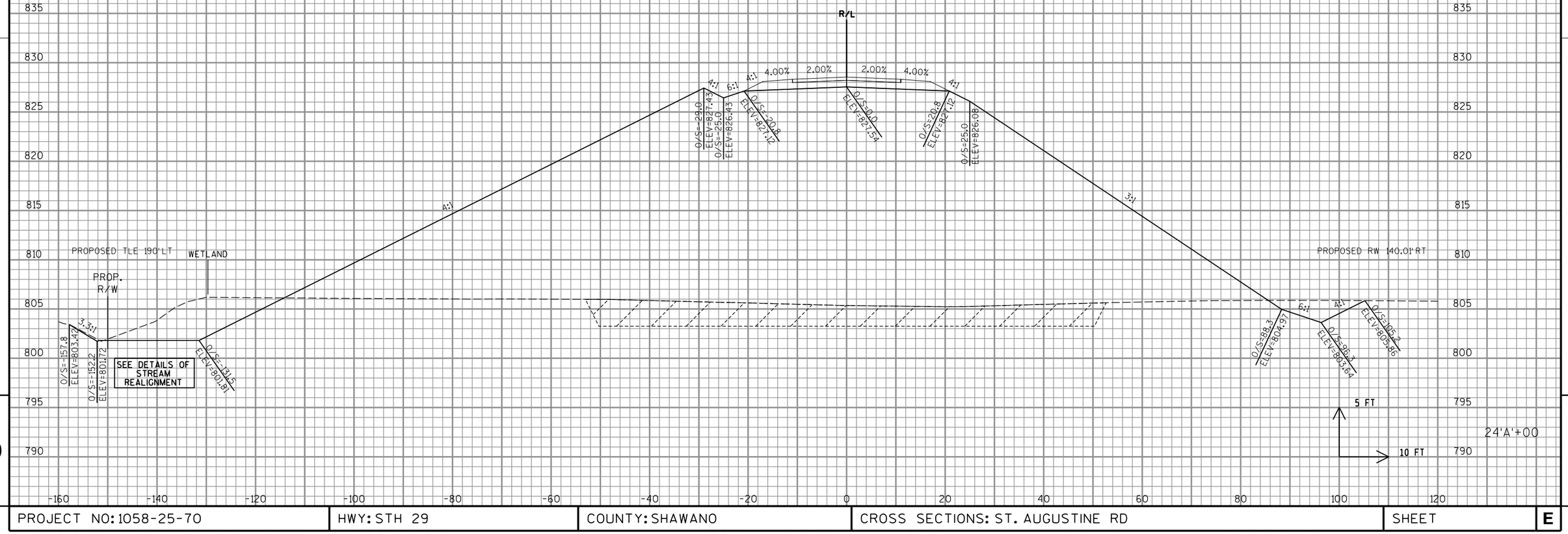
PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

LEGEND

EBS





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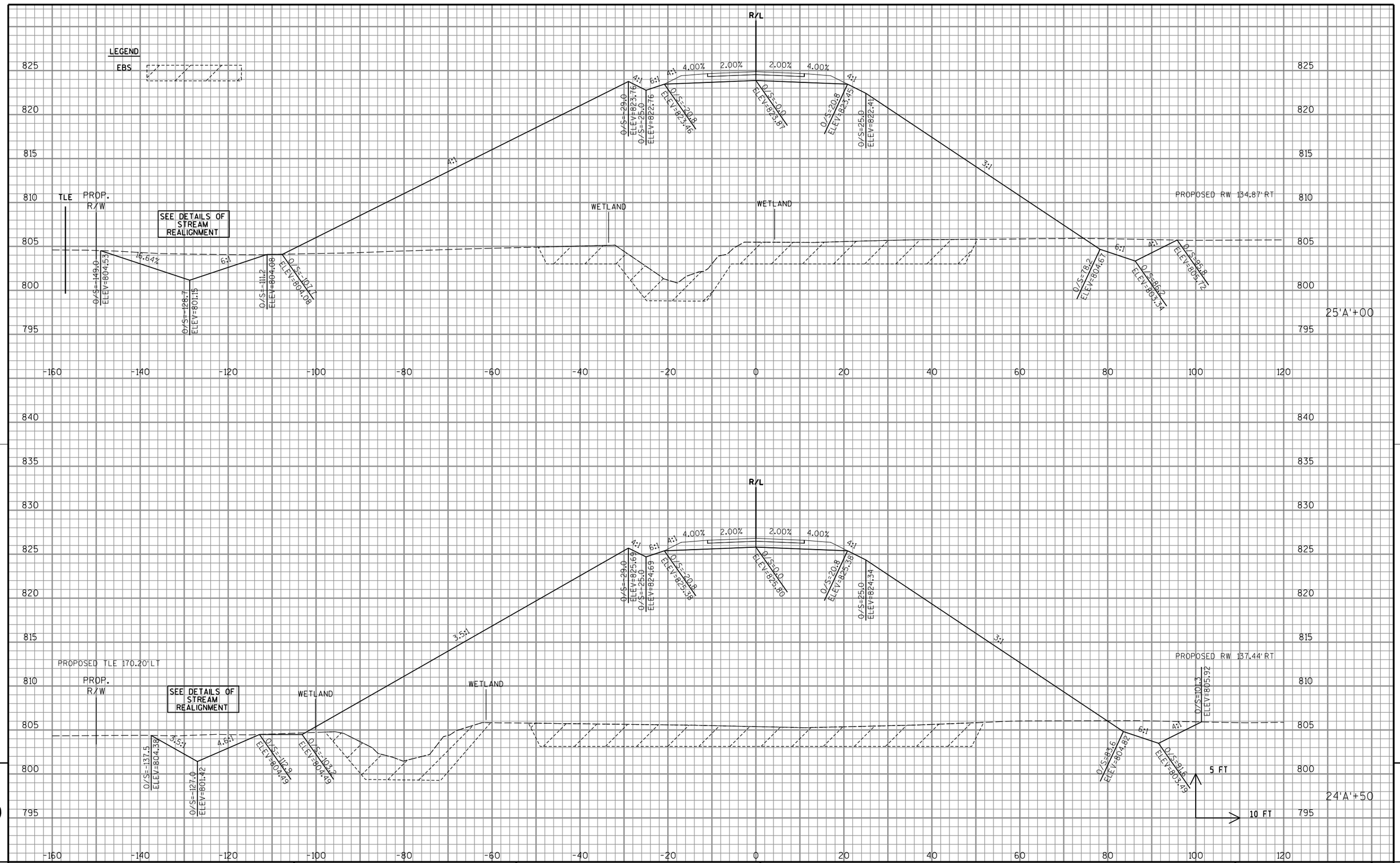
PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E

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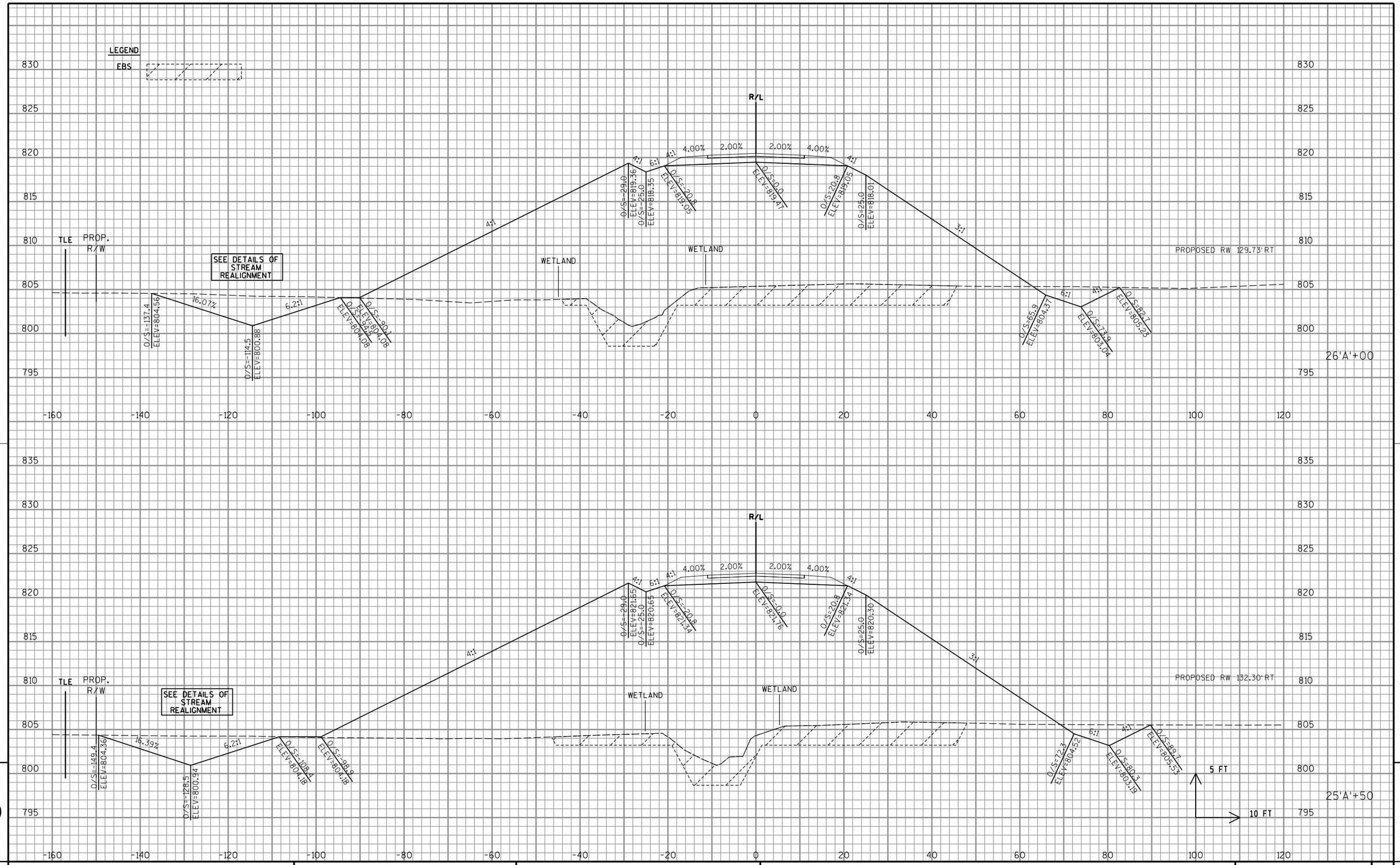
WISDOT/CADDS SHEET 21



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E

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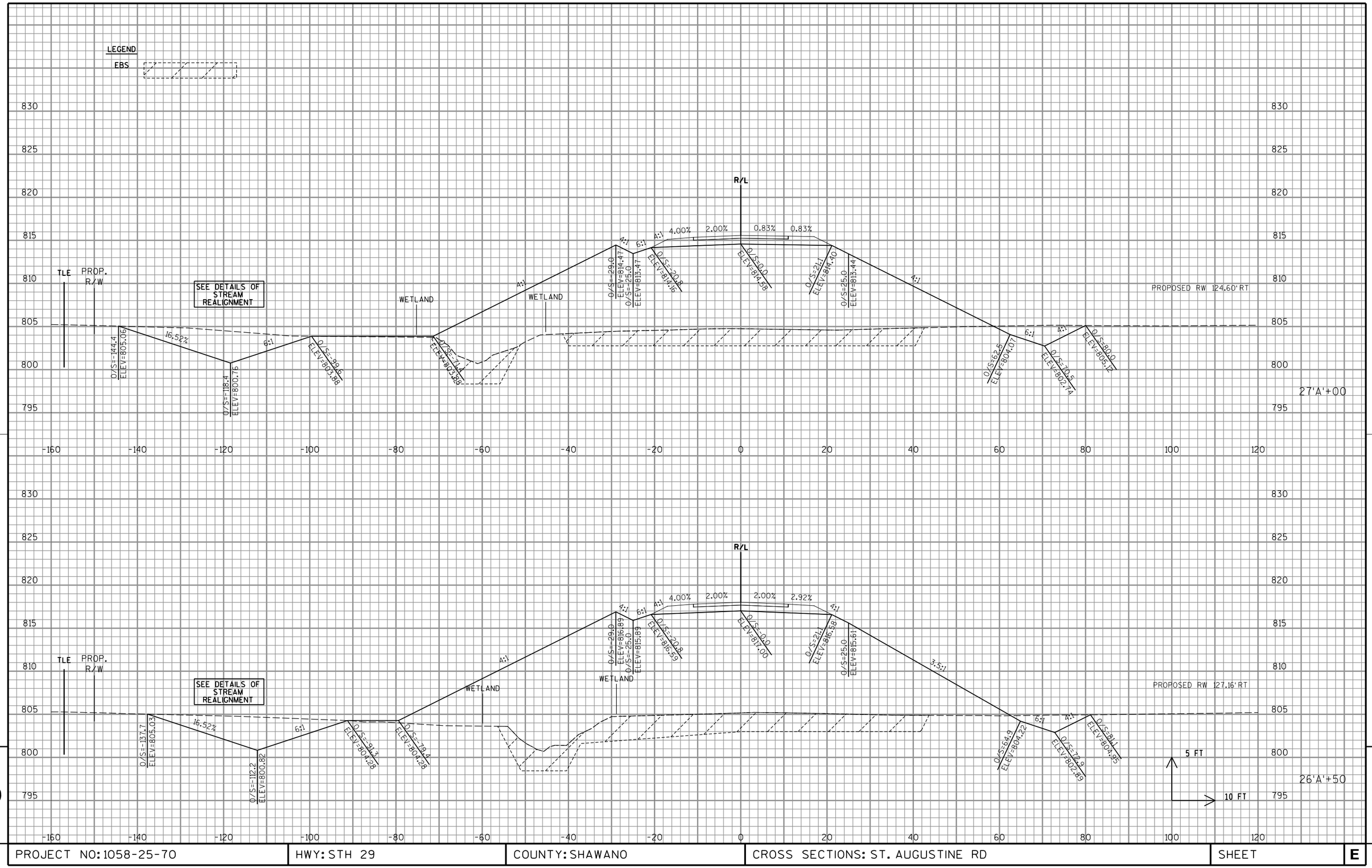

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E

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LEGEND

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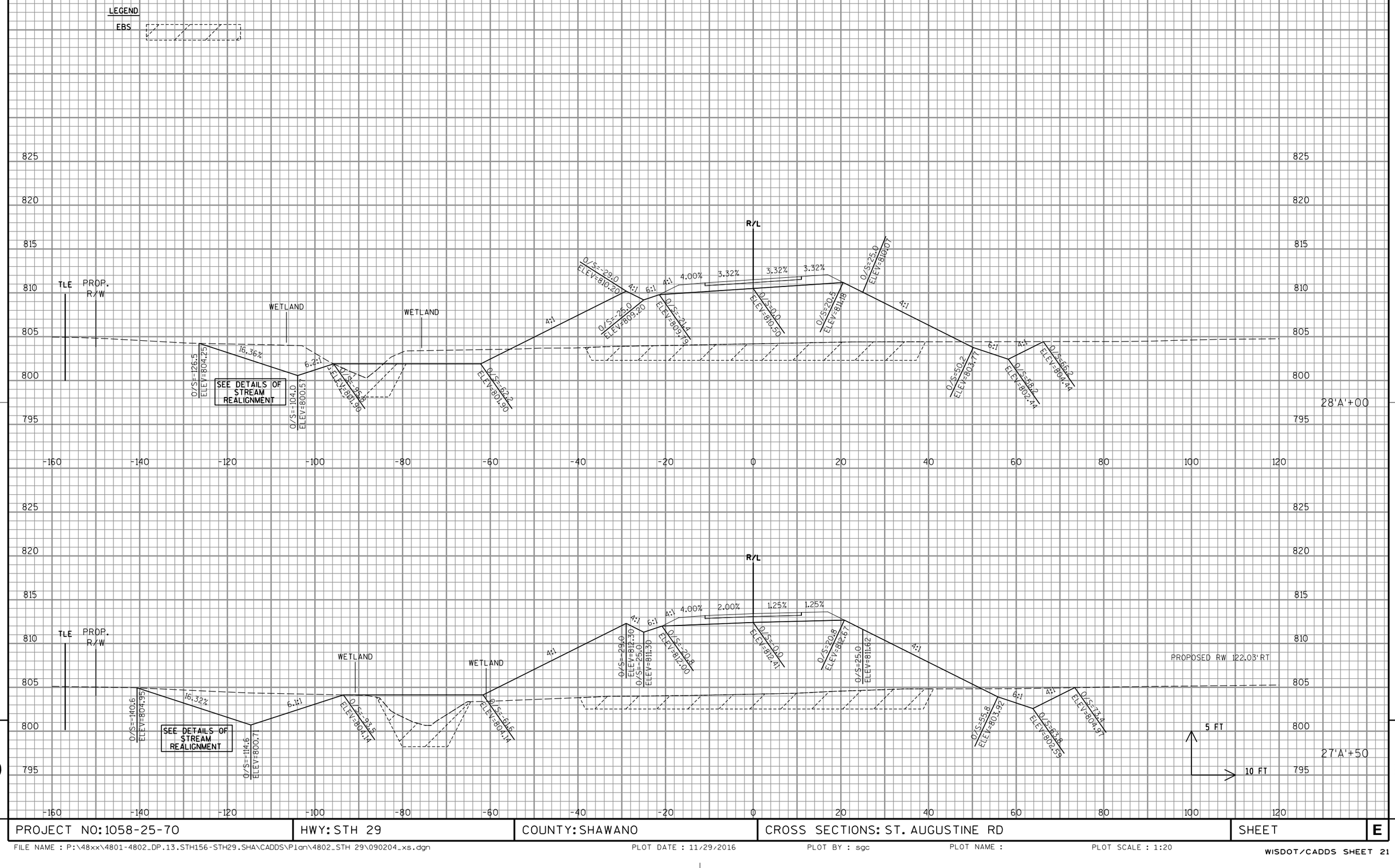
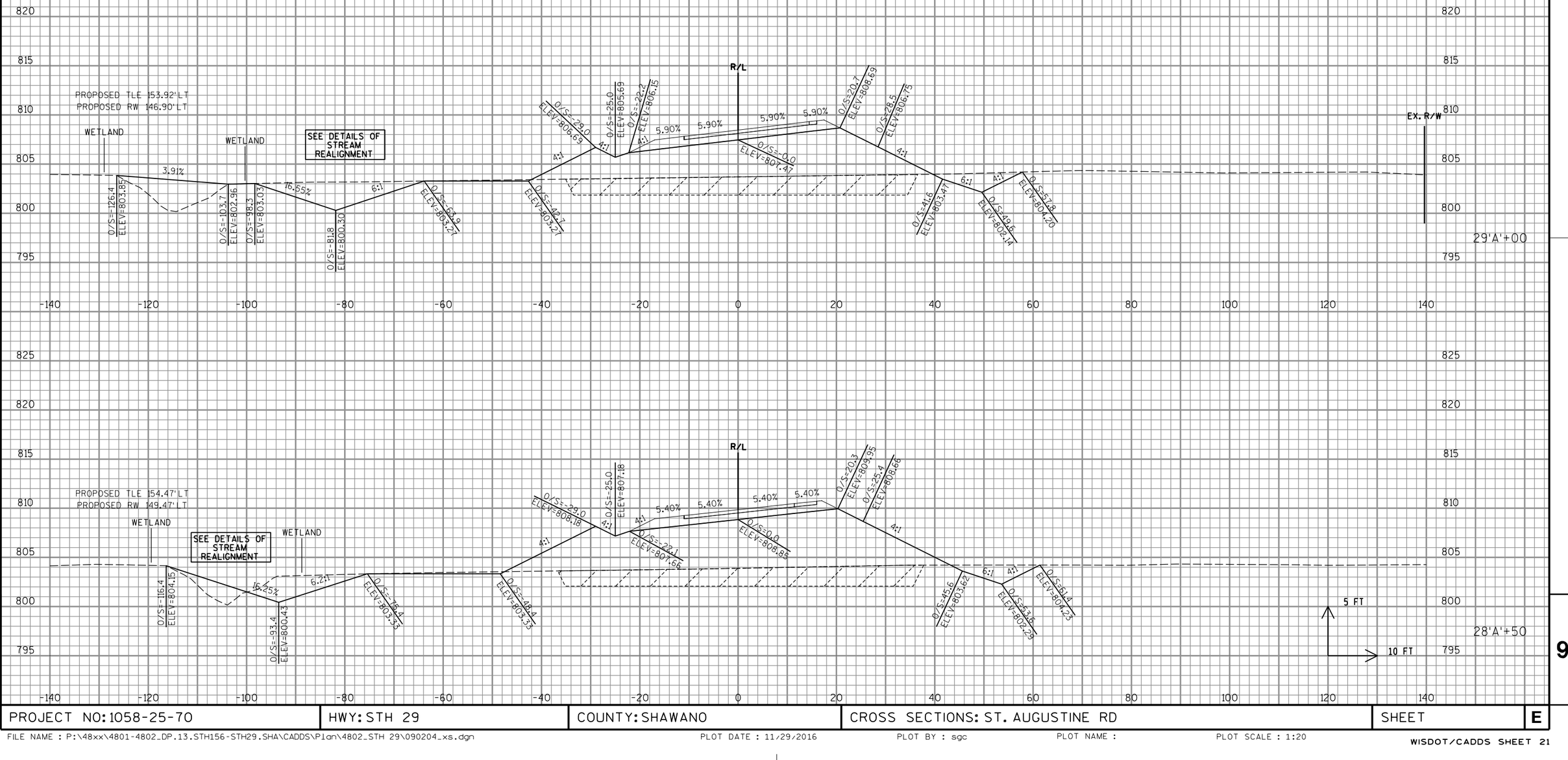


PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E

LEGEND

EBS



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E

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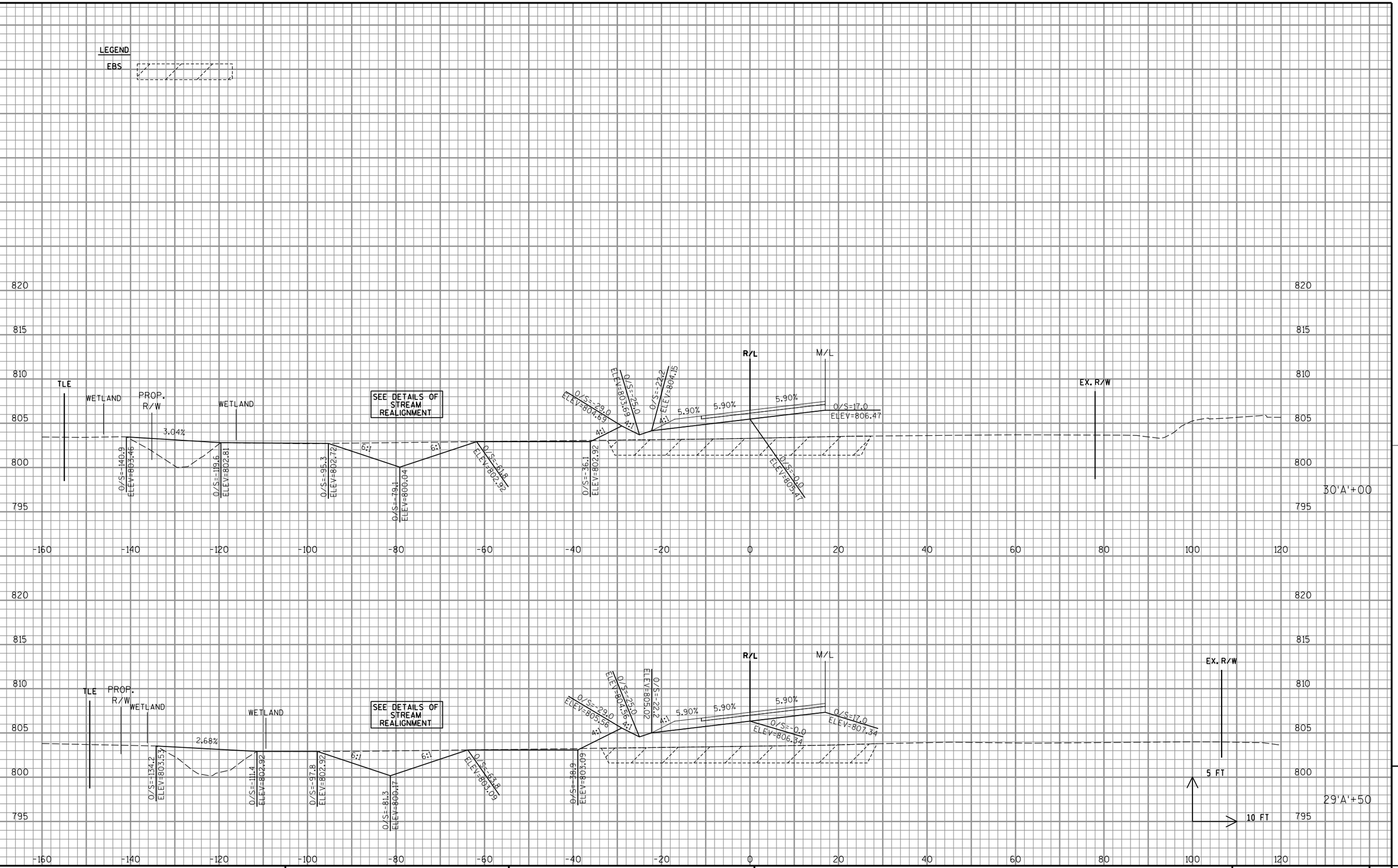
WISDOT/CADDS SHEET 21

LEGEND

EBS



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E

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WISDOT/CADDS SHEET 21

LEGEND

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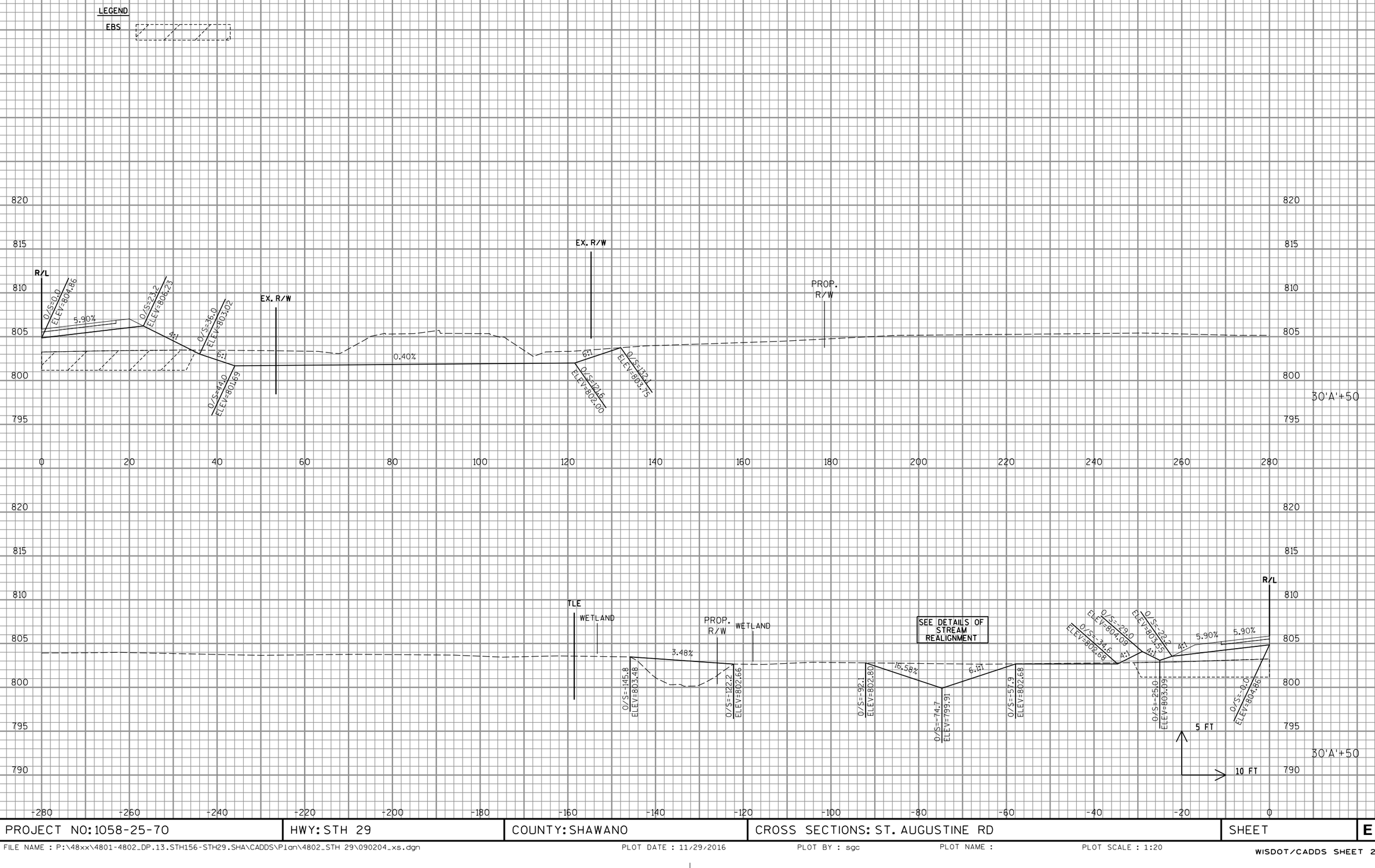

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E

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WISDOT/CADDS SHEET 21

LEGEND

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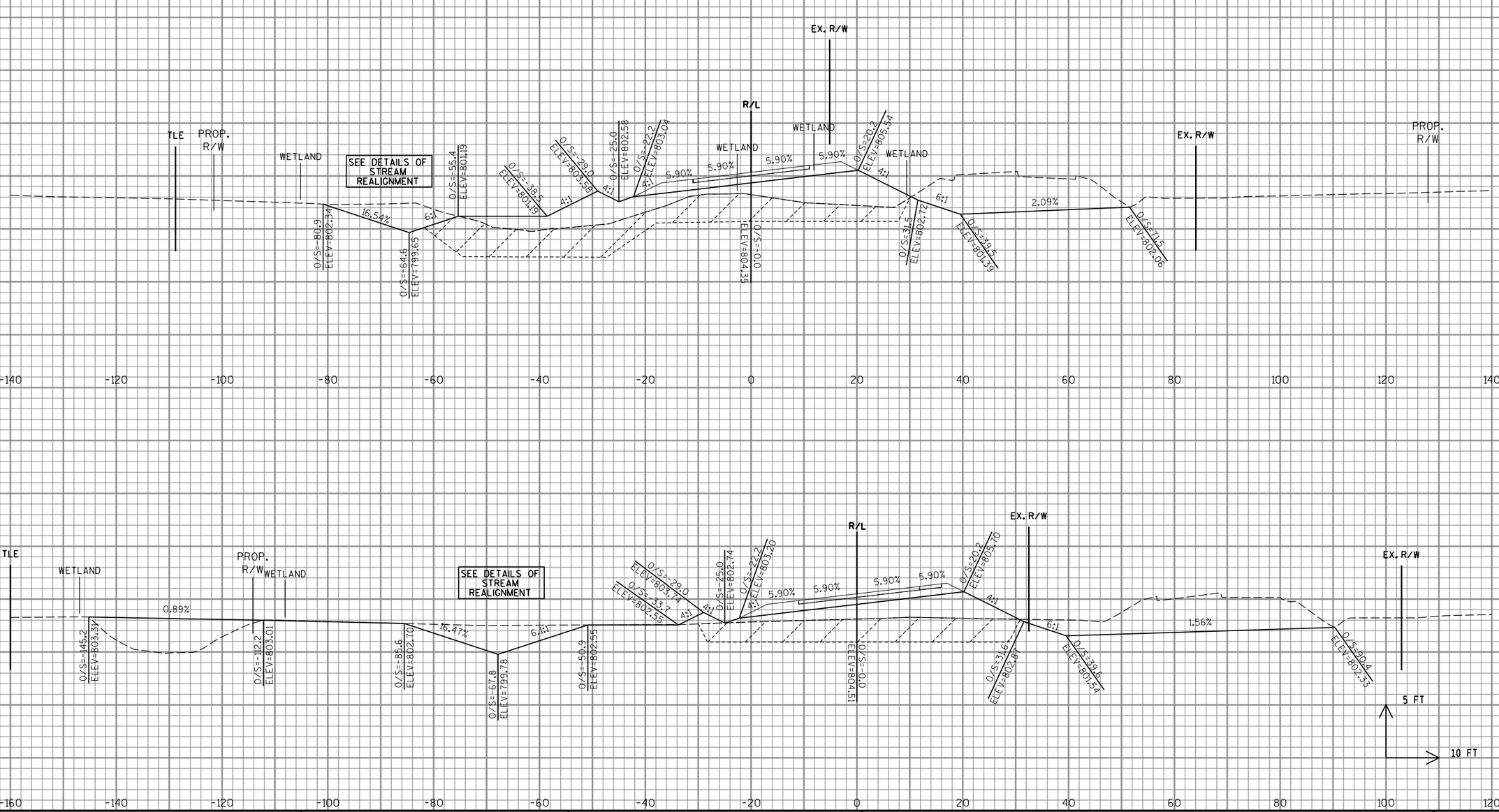

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PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E

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WISDOT/CADDS SHEET 21

LEGEND

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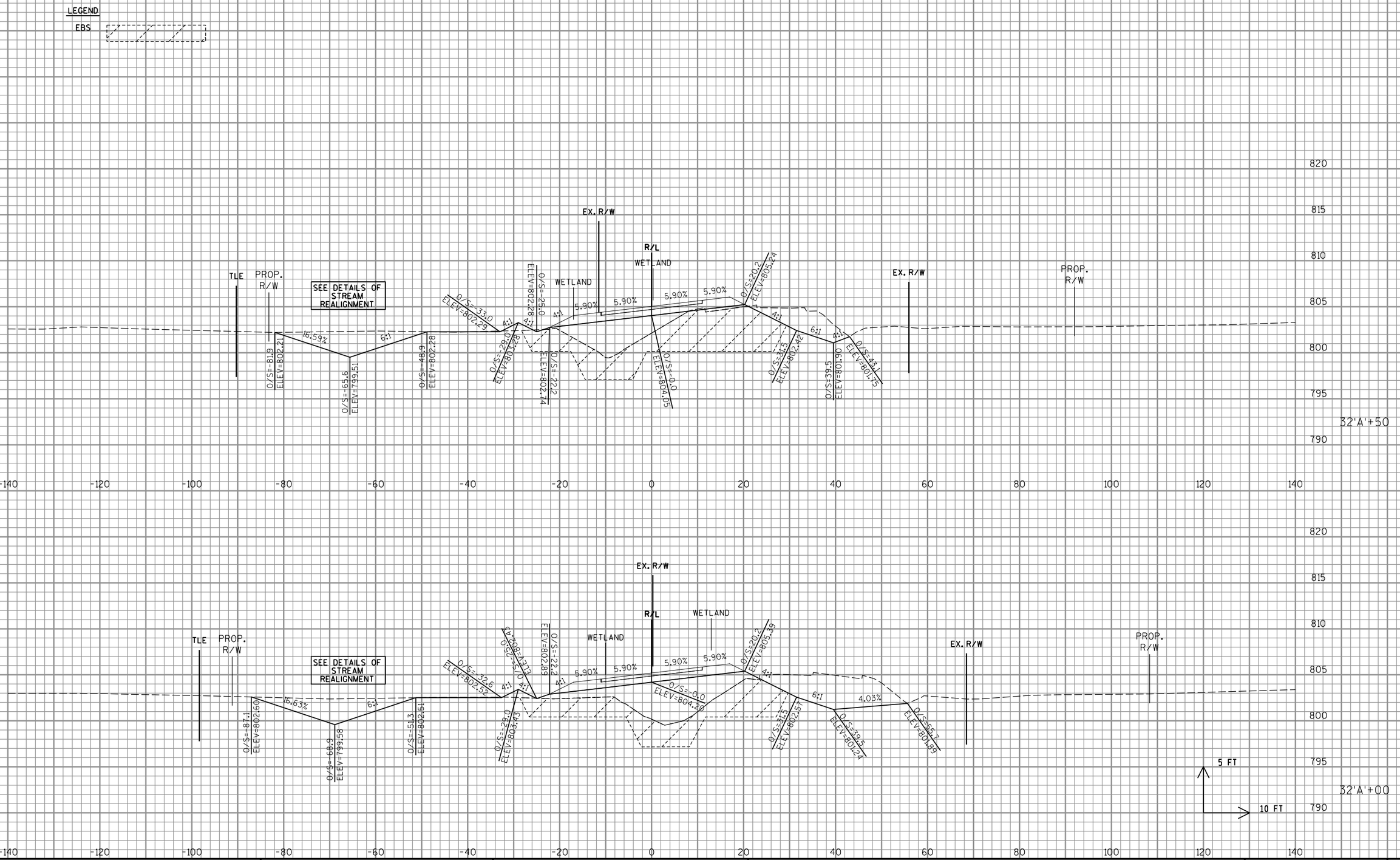

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PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E

LEGEND

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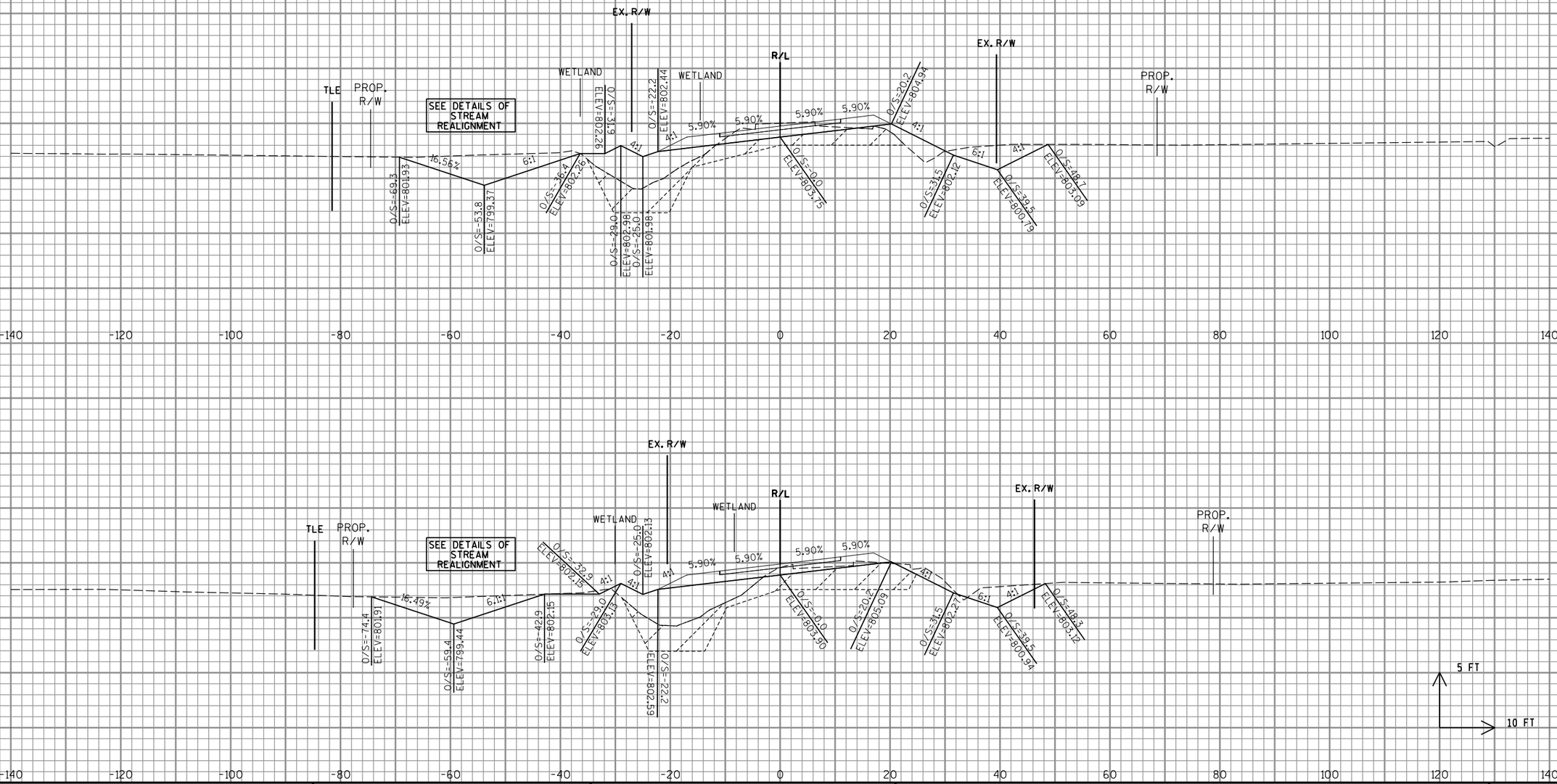

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E

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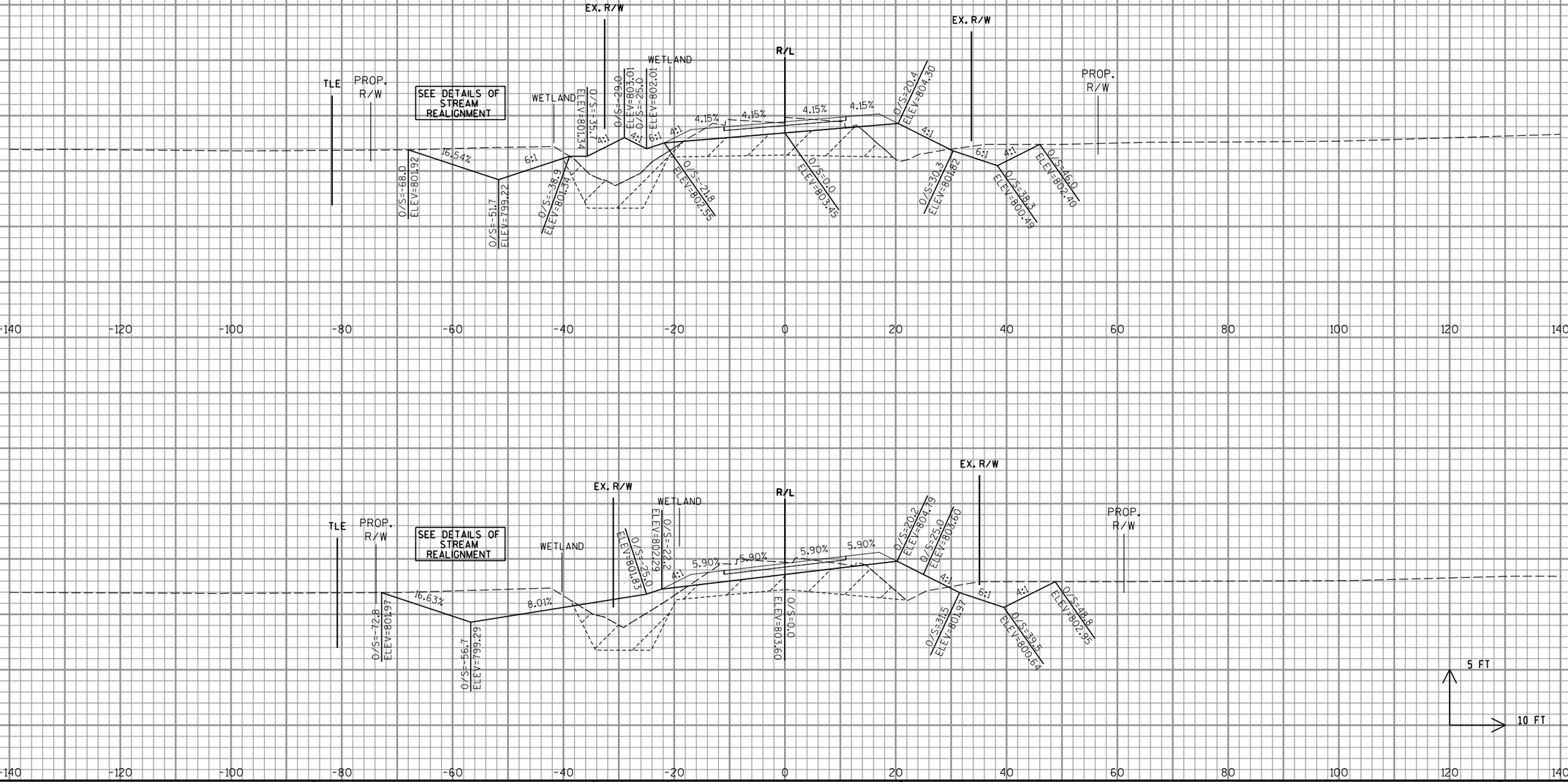
WISDOT/CADDS SHEET 21

LEGEND

EBS



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PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E

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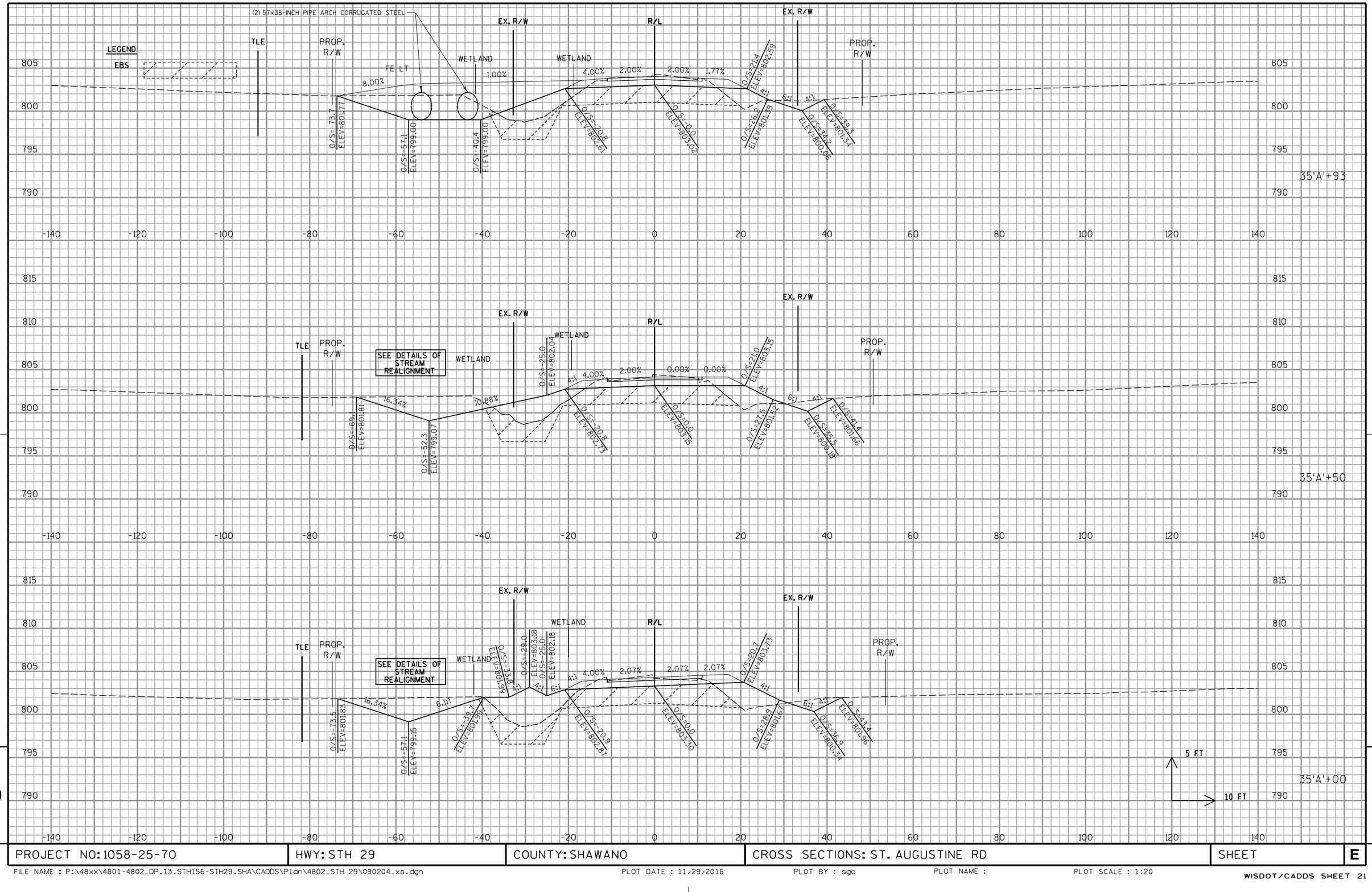

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LEGEND

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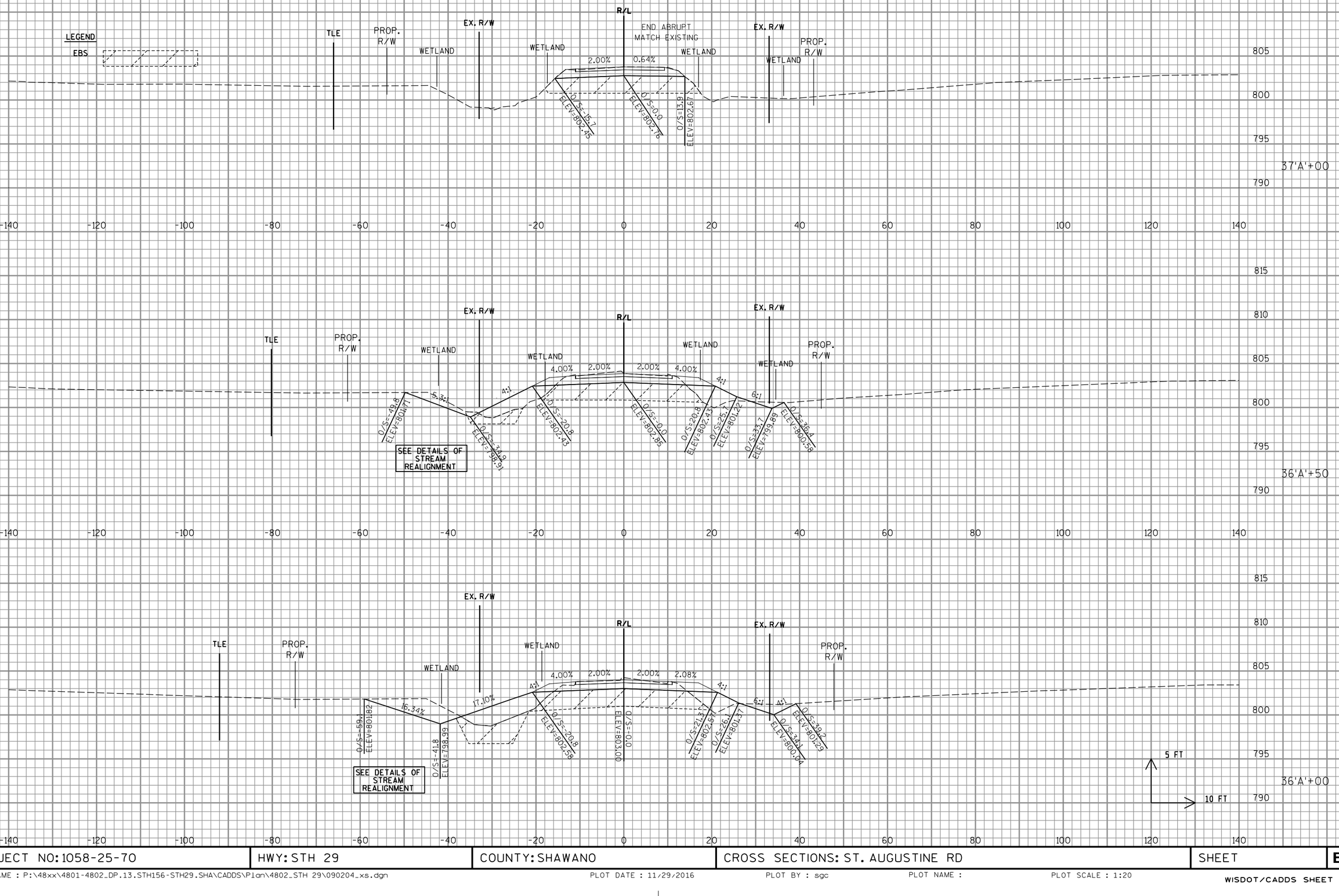
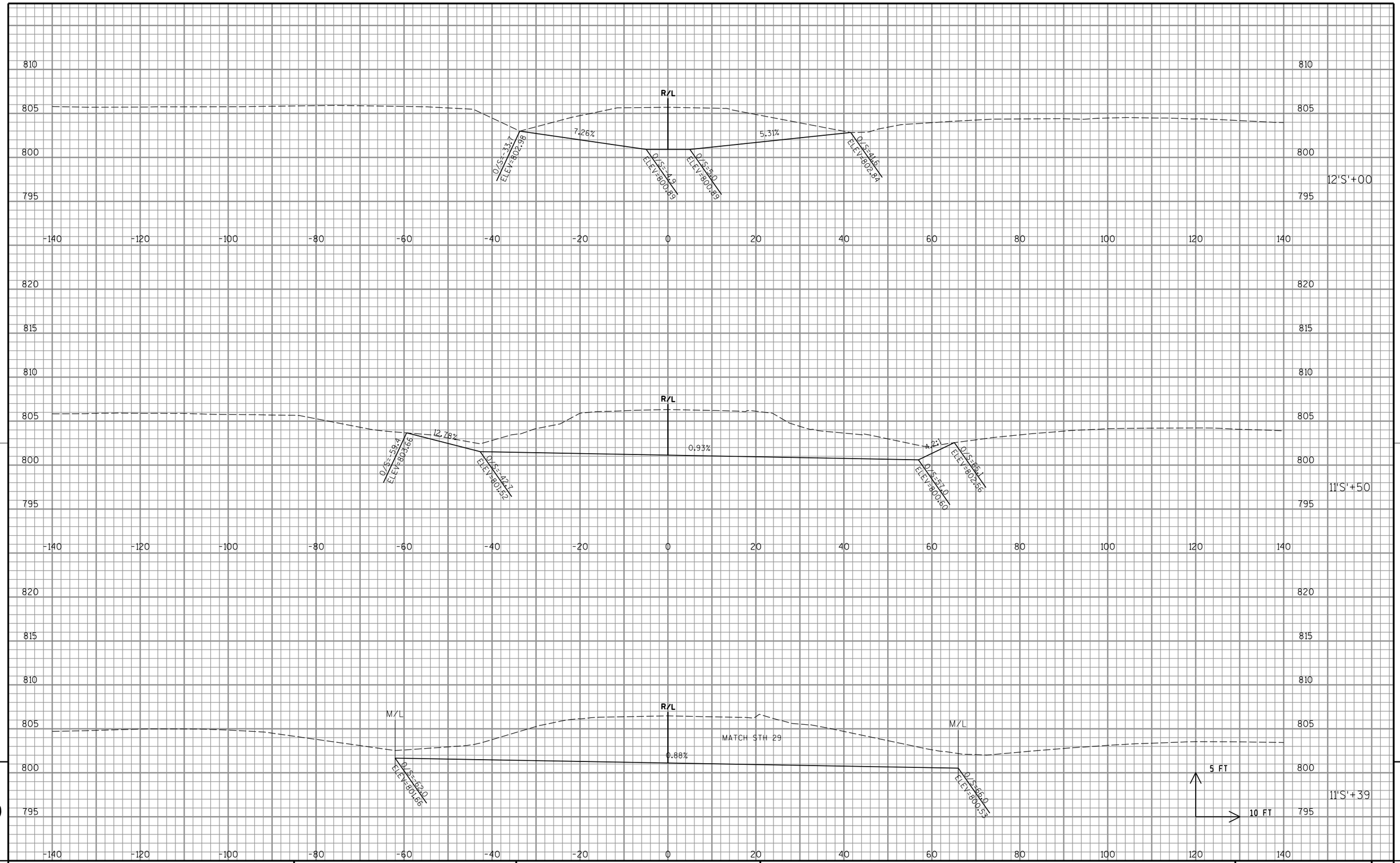
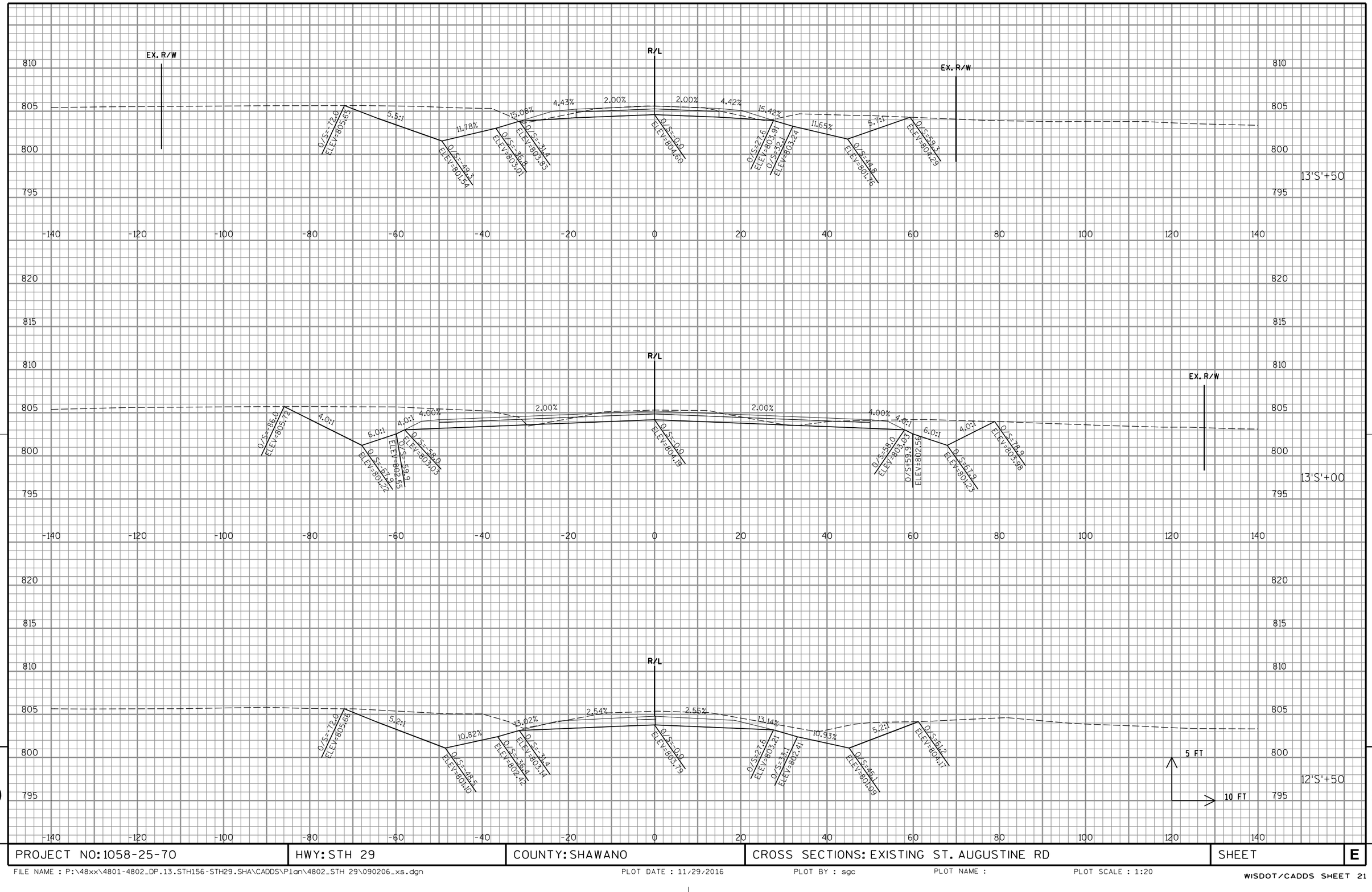


PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: ST. AUGUSTINE RD	SHEET	E



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: EXISTING ST. AUGUSTINE RD	SHEET	E



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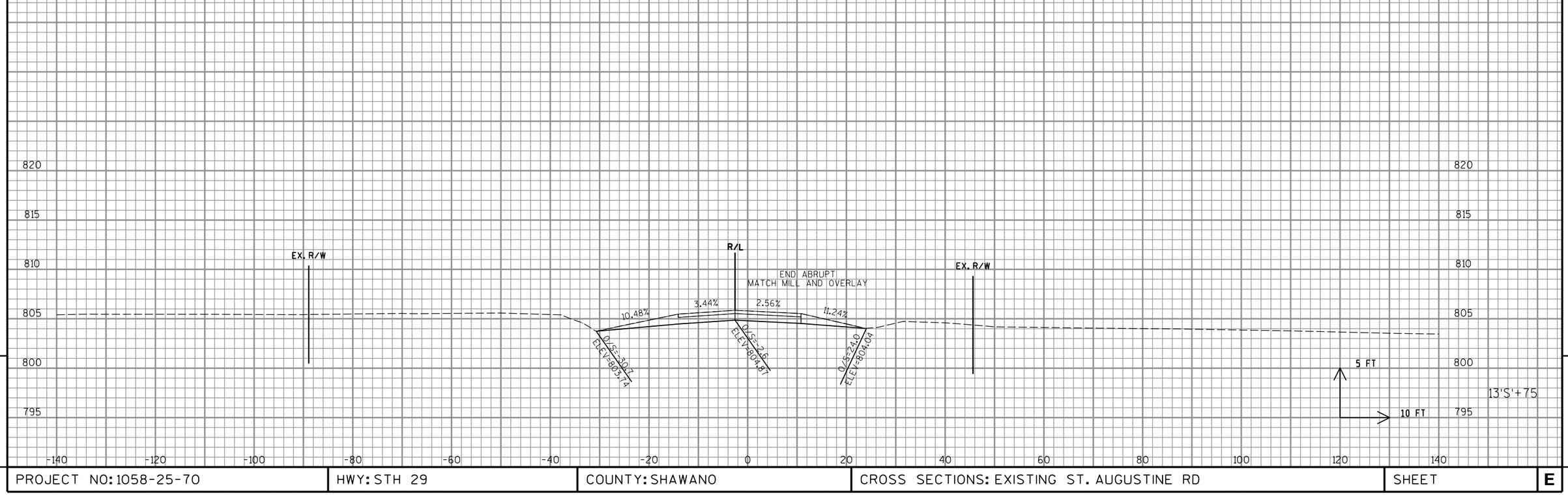

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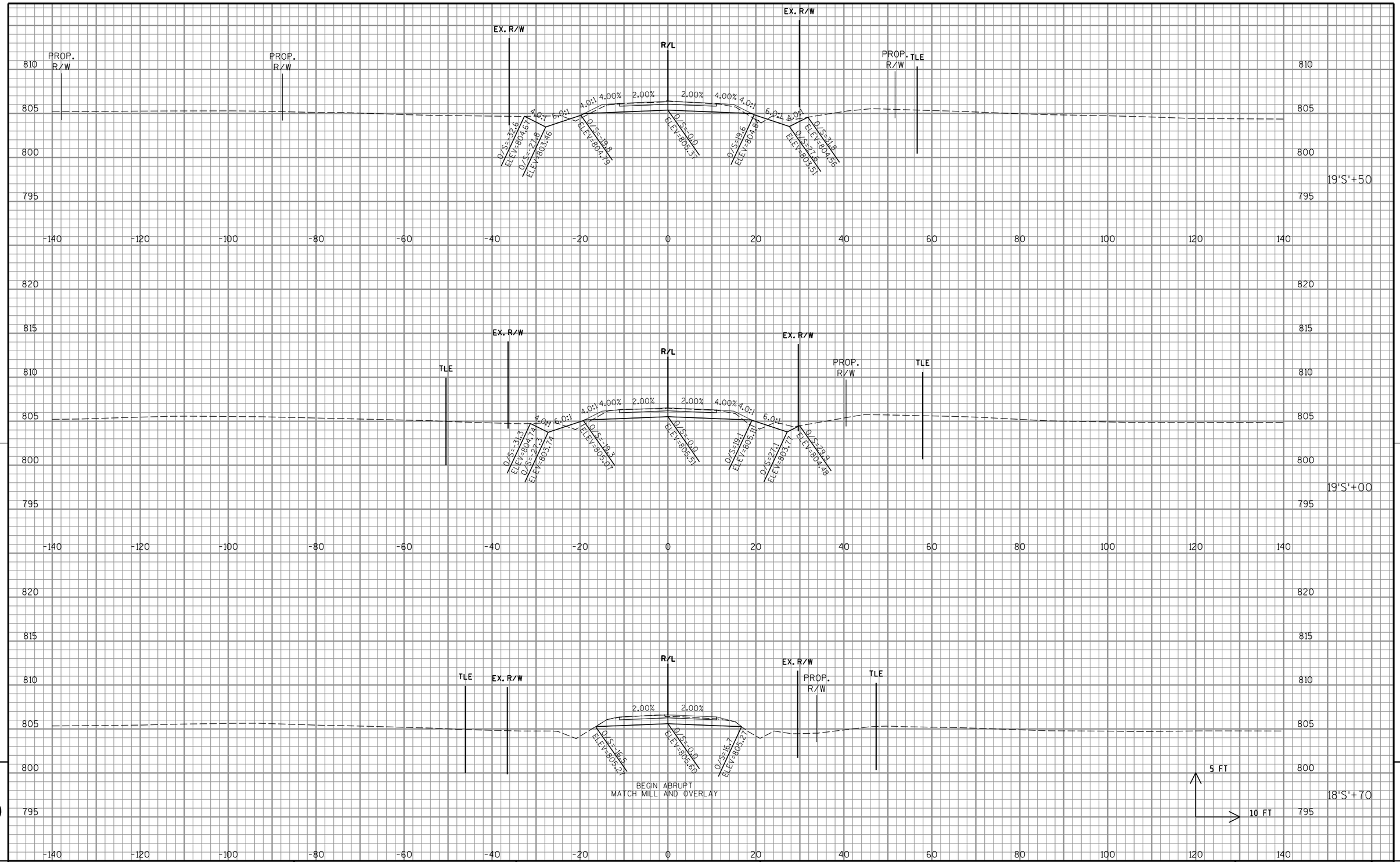
PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: EXISTING ST. AUGUSTINE RD	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\090206_xs.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: EXISTING ST. AUGUSTINE RD	SHEET E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\090206_xs.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

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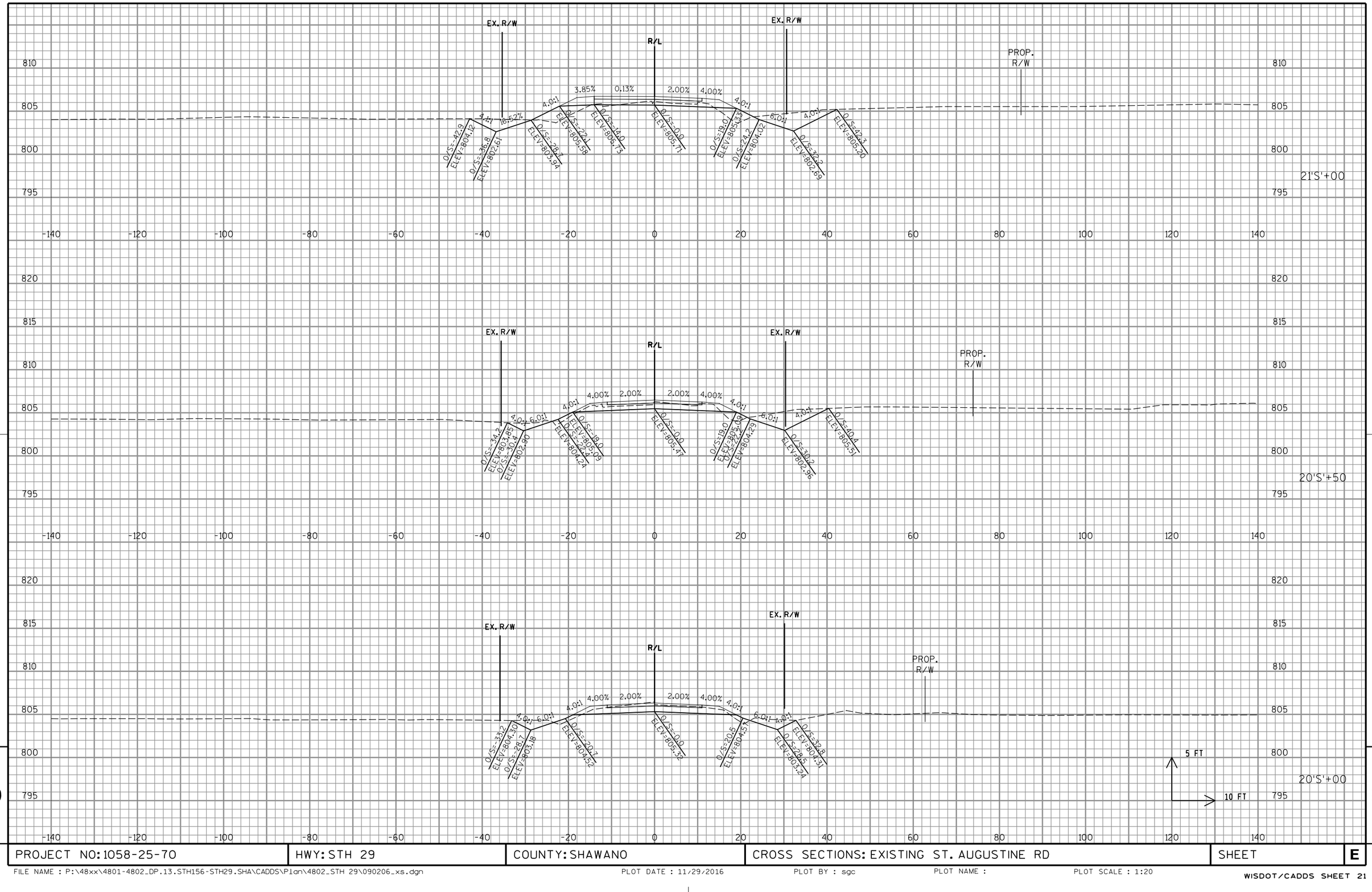
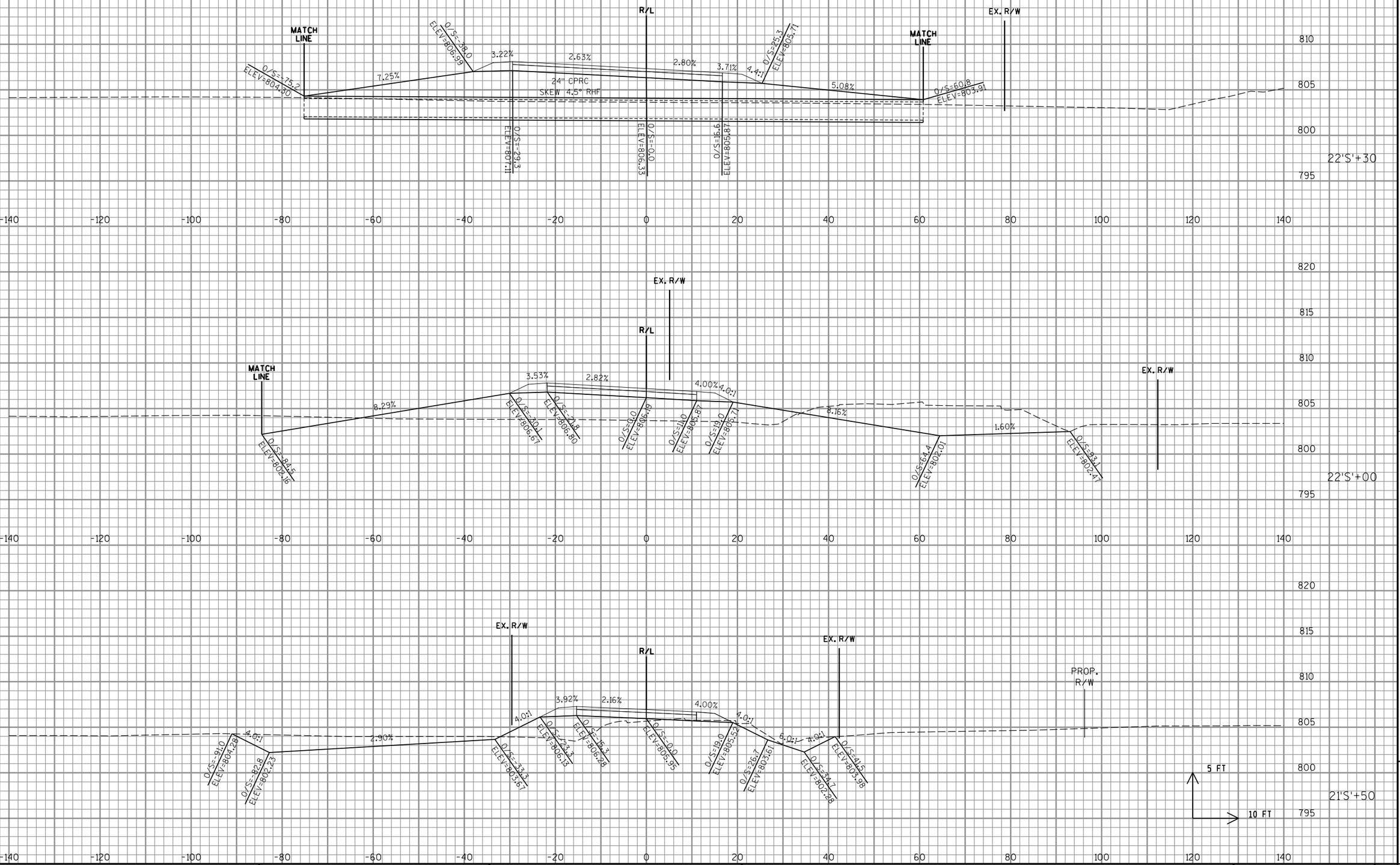
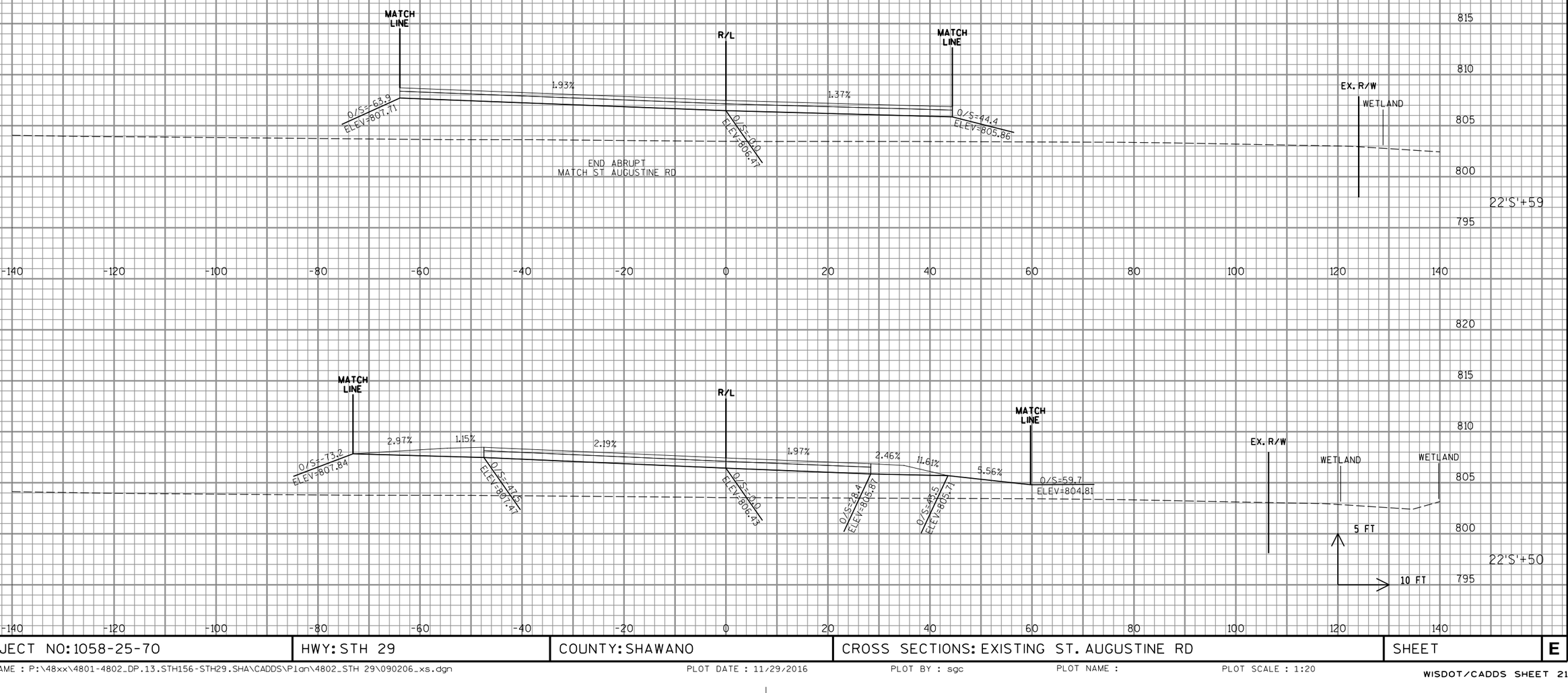


PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: EXISTING ST. AUGUSTINE RD	SHEET	E

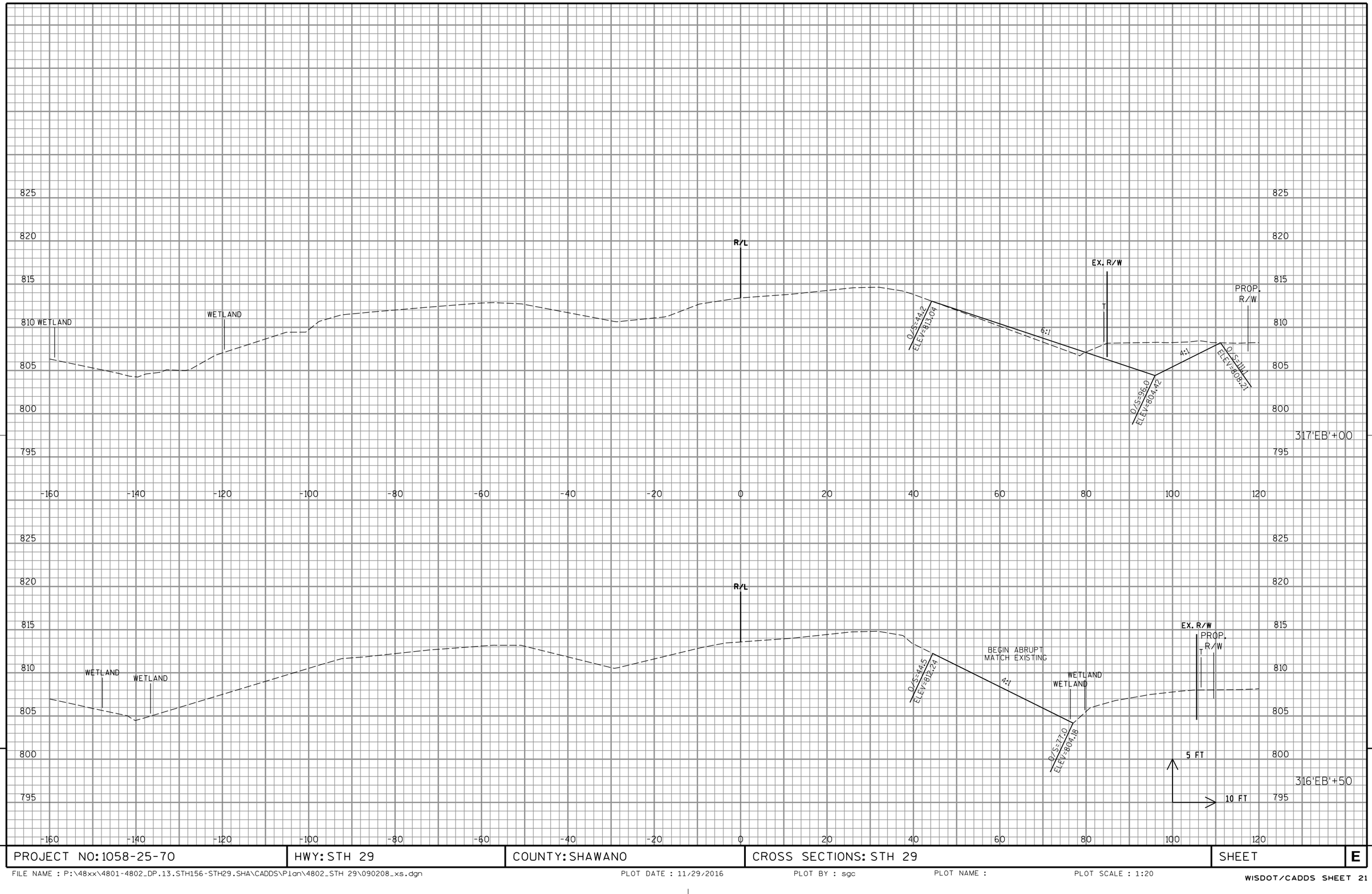
CROSS SECTION IS SKEWED IN LINE WITH CULVERT



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: EXISTING ST. AUGUSTINE RD	SHEET	E



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: EXISTING ST. AUGUSTINE RD	SHEET	E



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PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 29	SHEET	E

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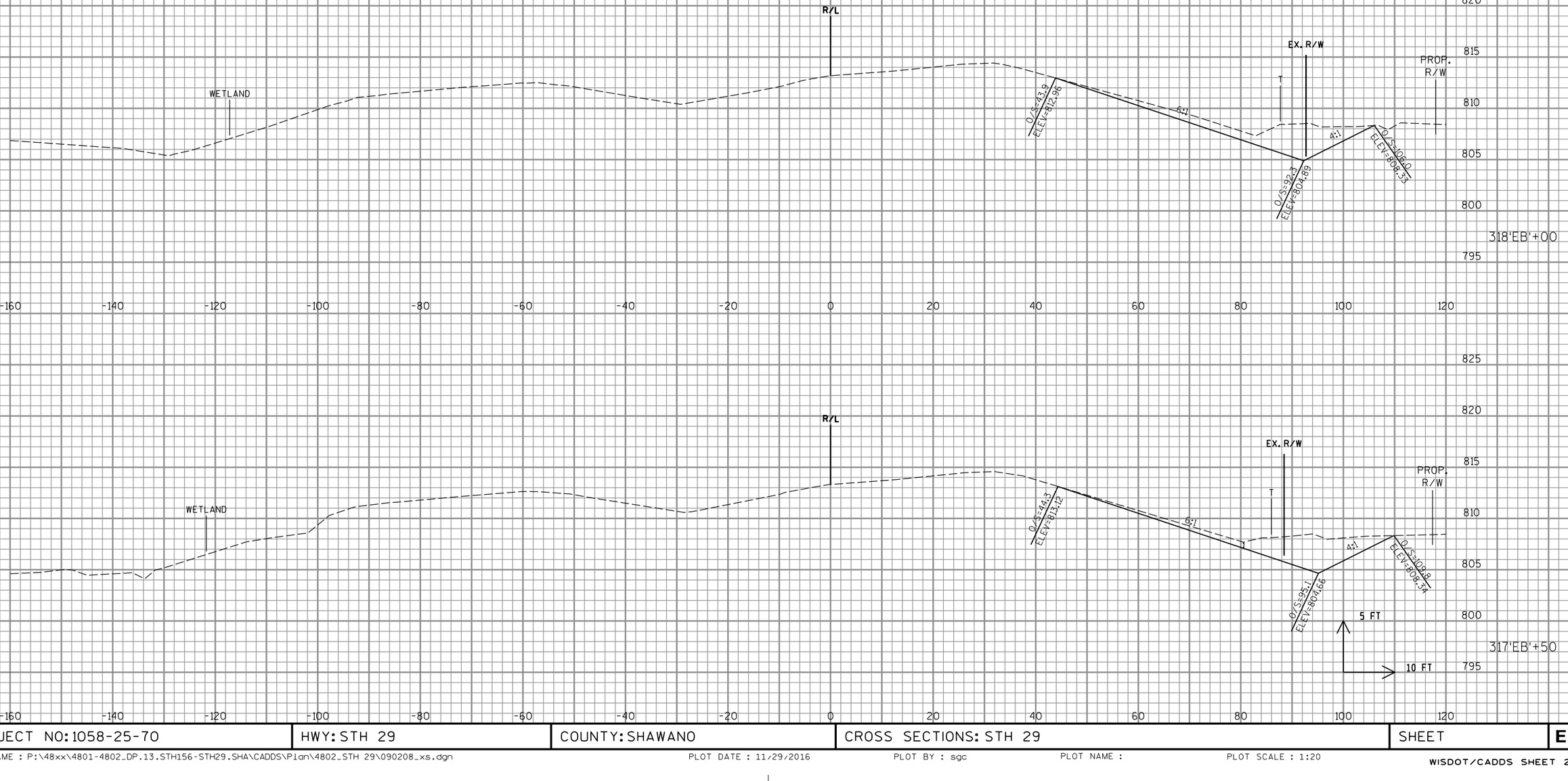
WISDOT/CADDS SHEET 21



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 29	SHEET	E

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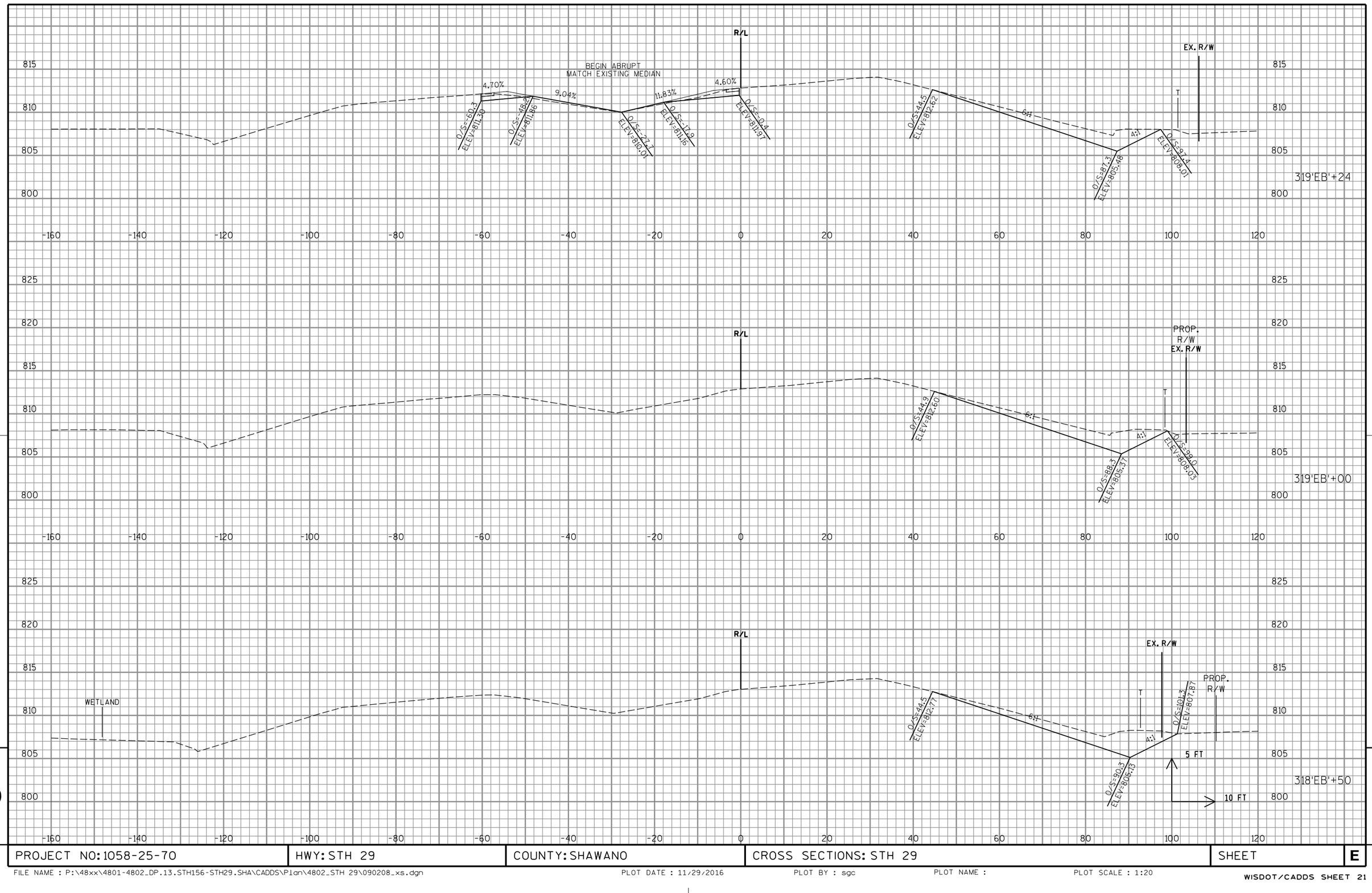
WISDOT/CADDS SHEET 21



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 29	SHEET	E

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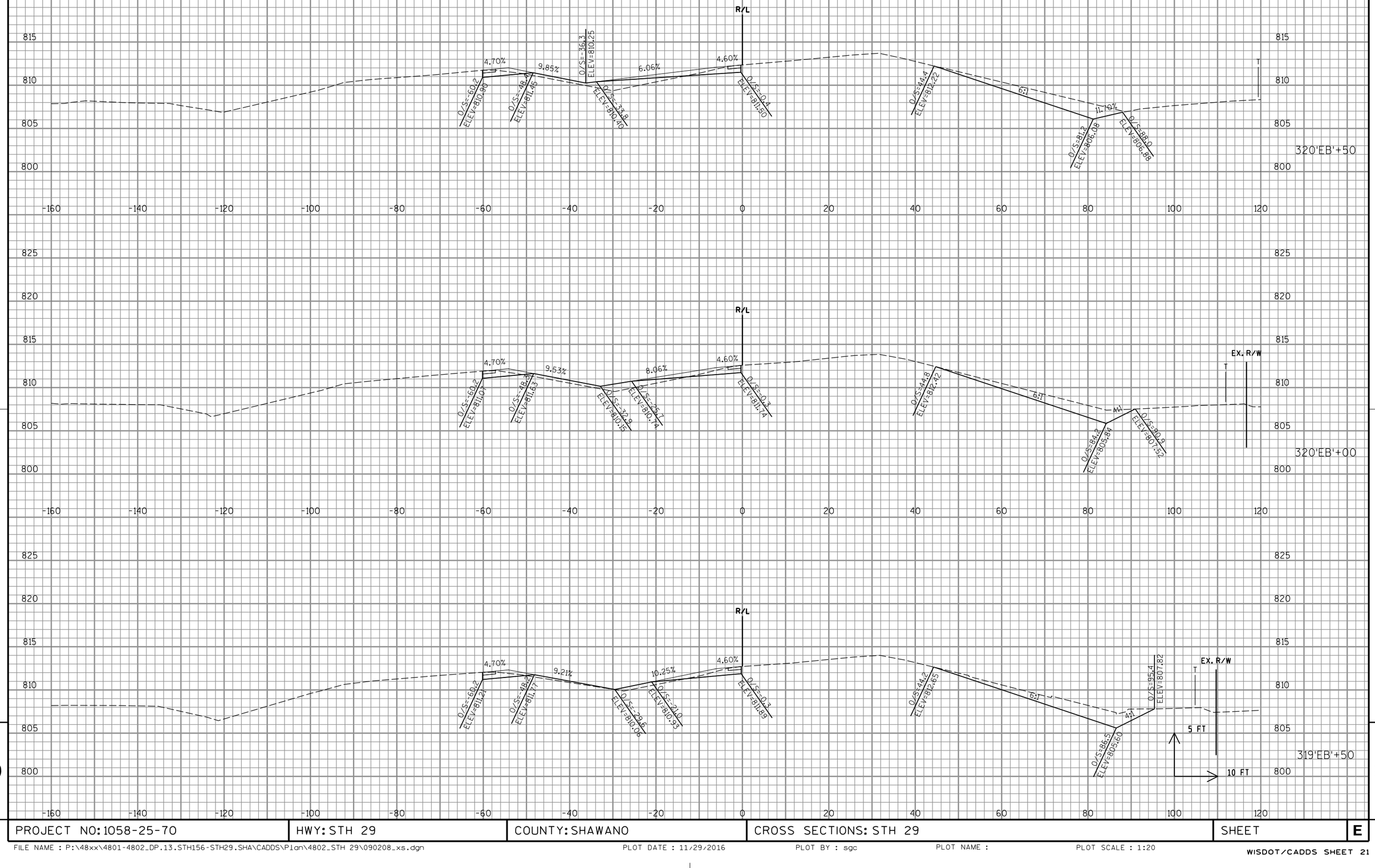
WISDOT/CADDS SHEET 21



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 29	SHEET	E

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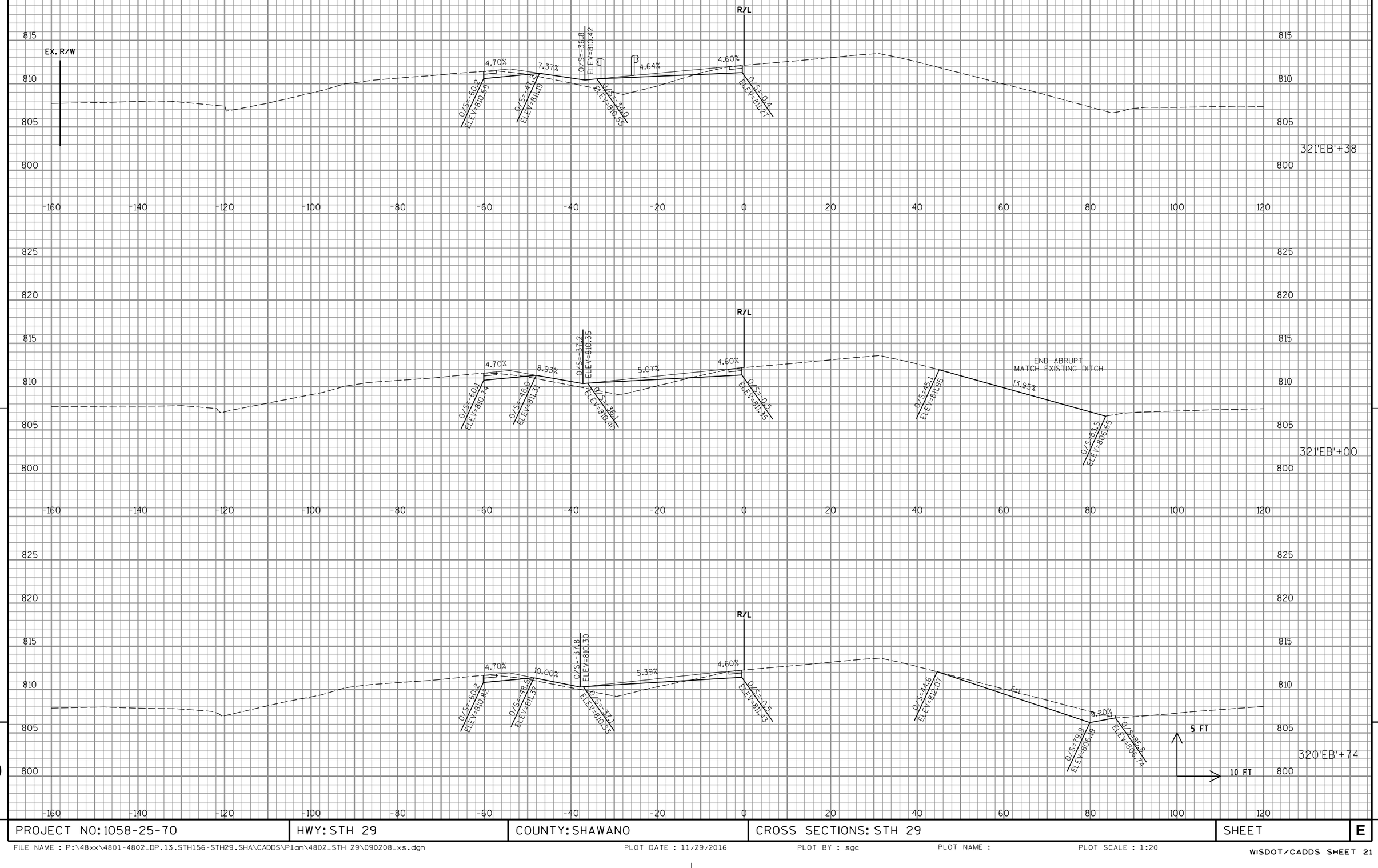

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 29	SHEET	E

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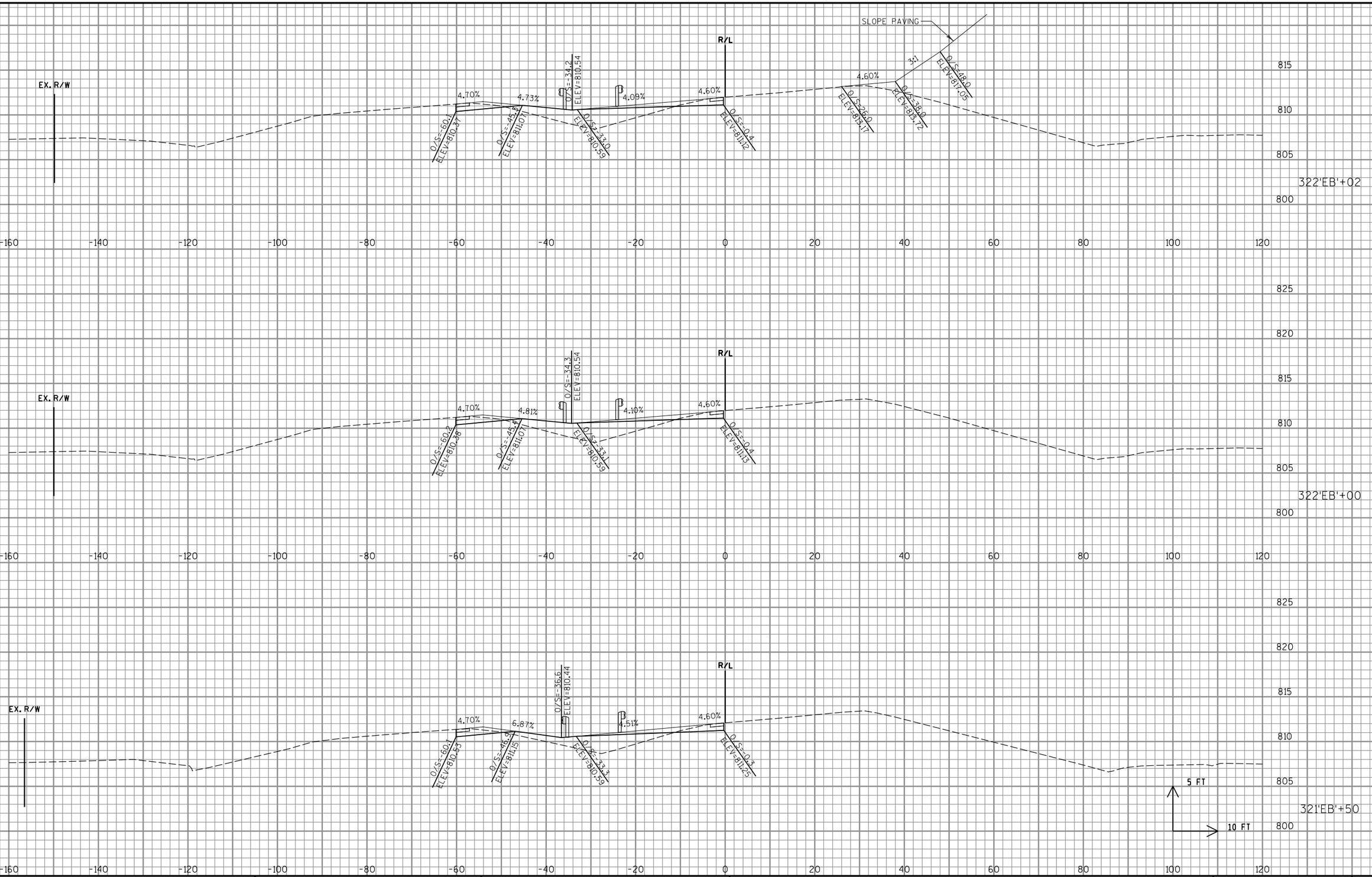

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 29	SHEET	E

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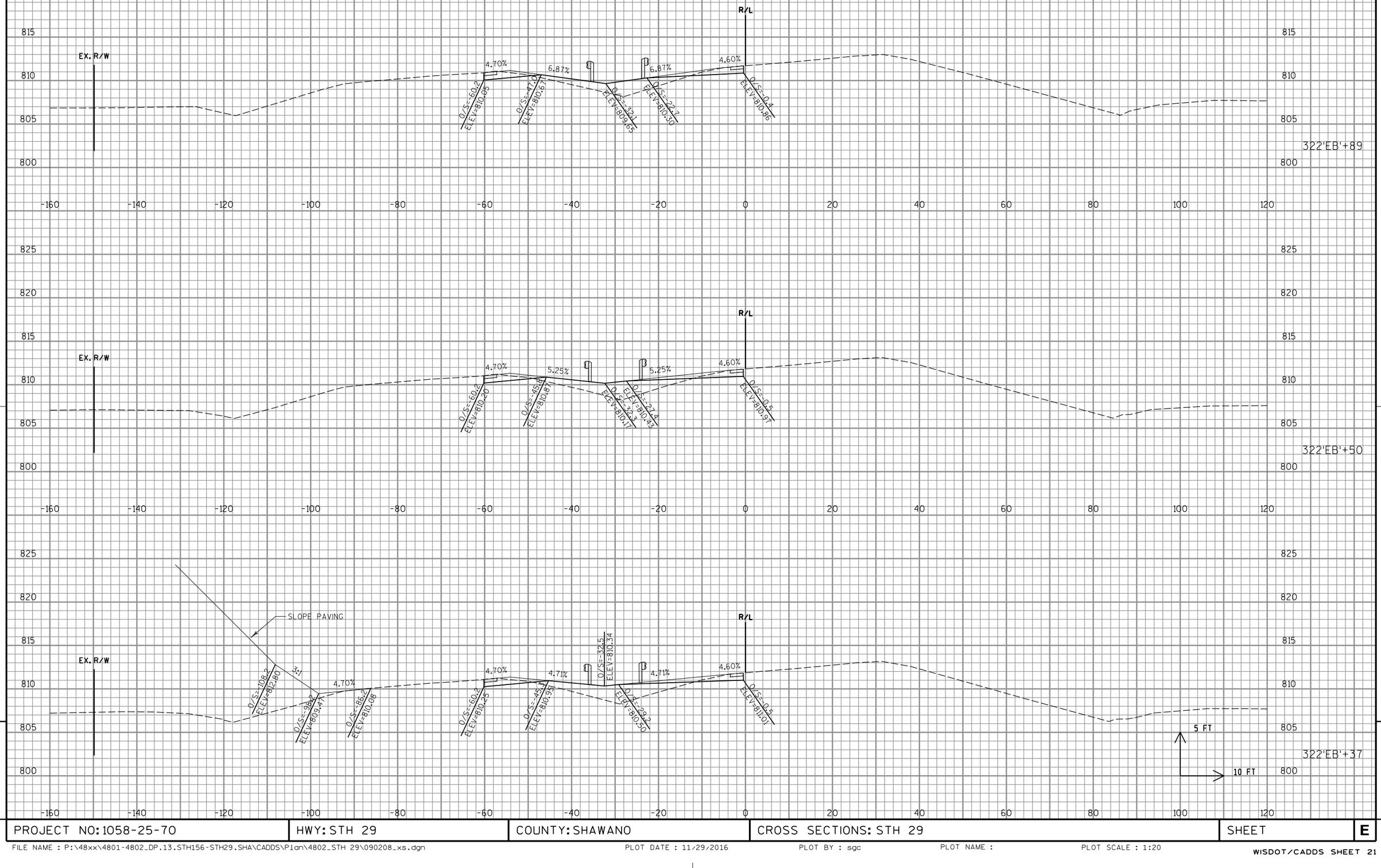
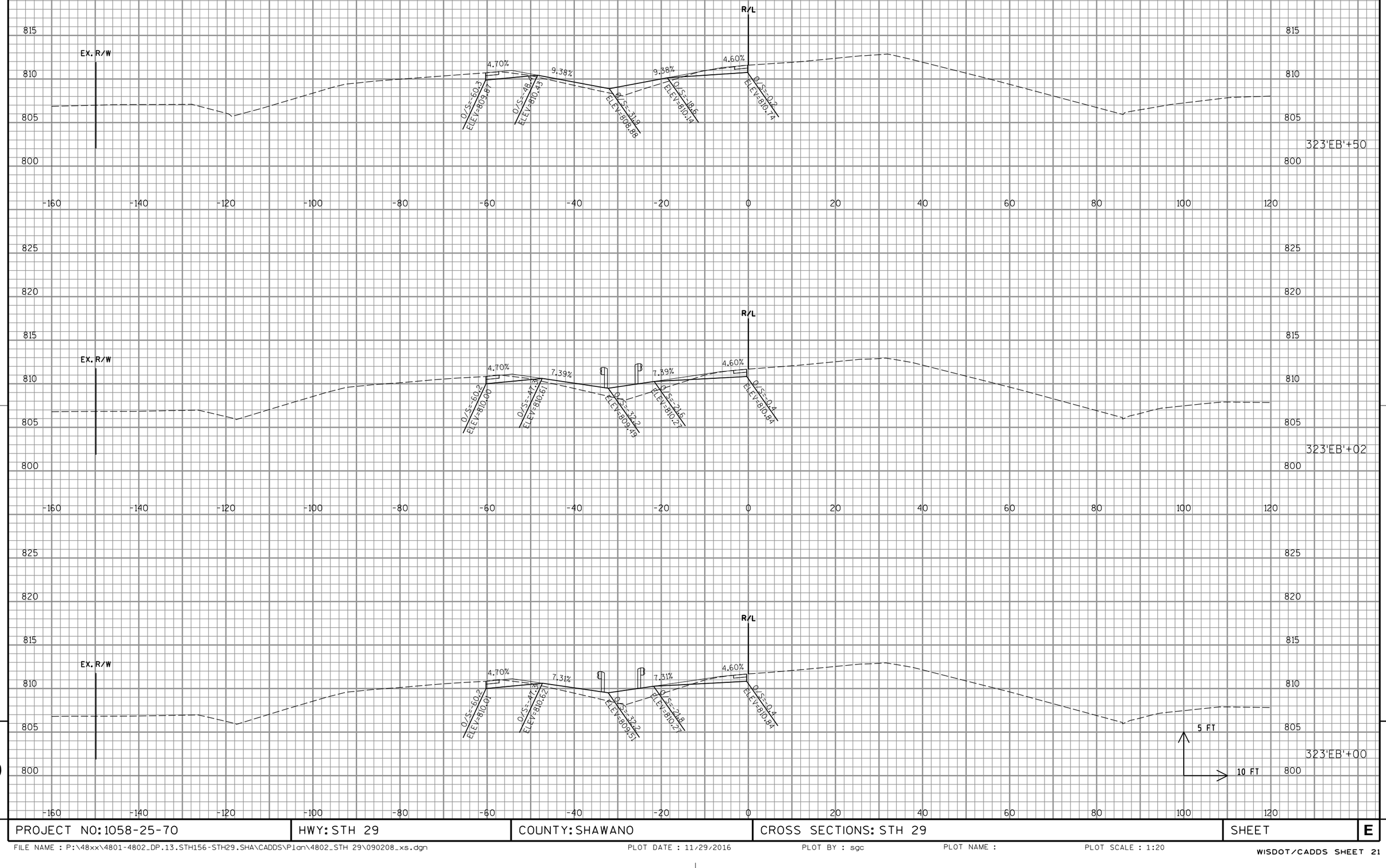


PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 29	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\090208_xs.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

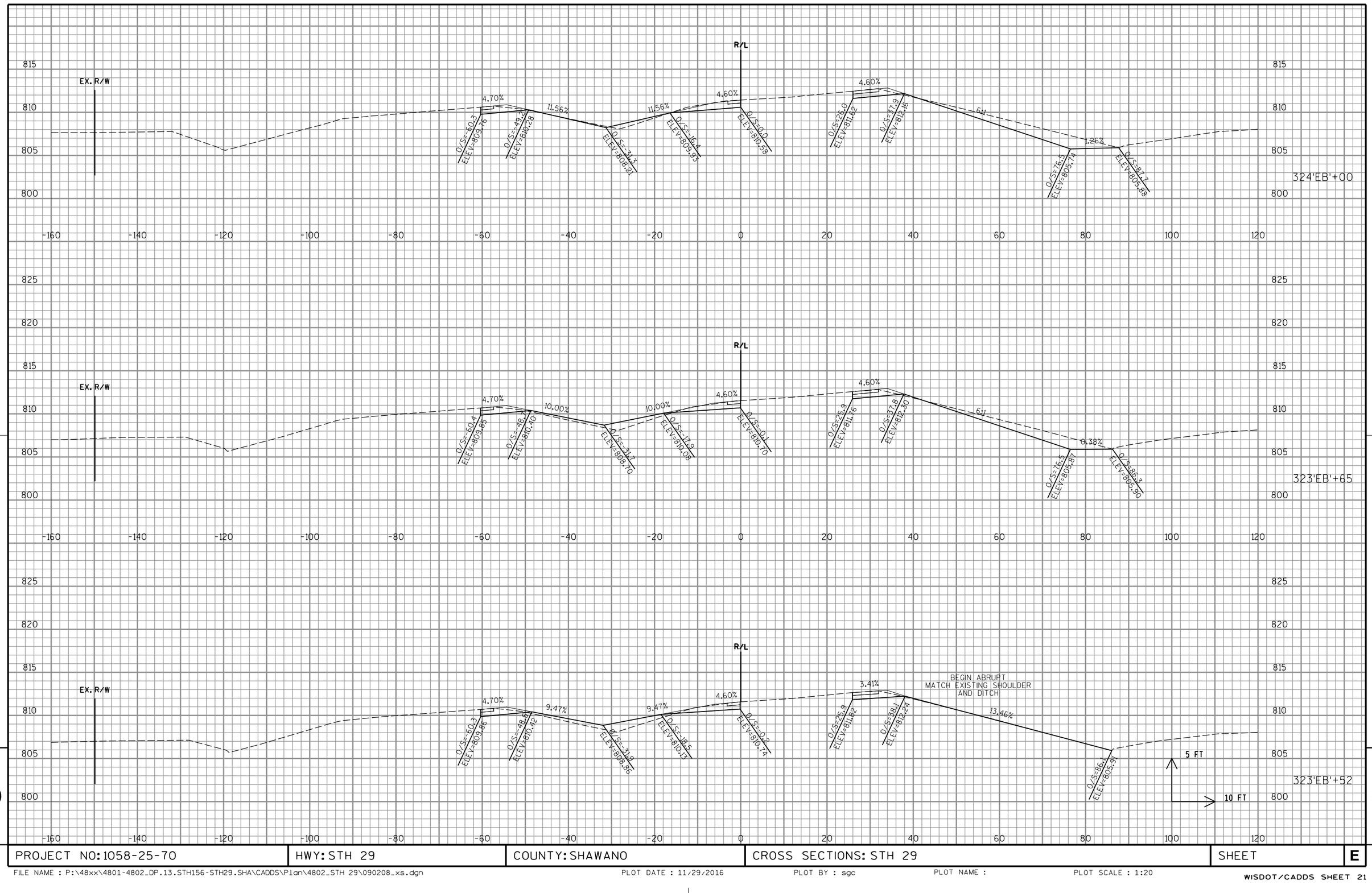
WISDOT/CADDS SHEET 21



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 29	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\090208_xs.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

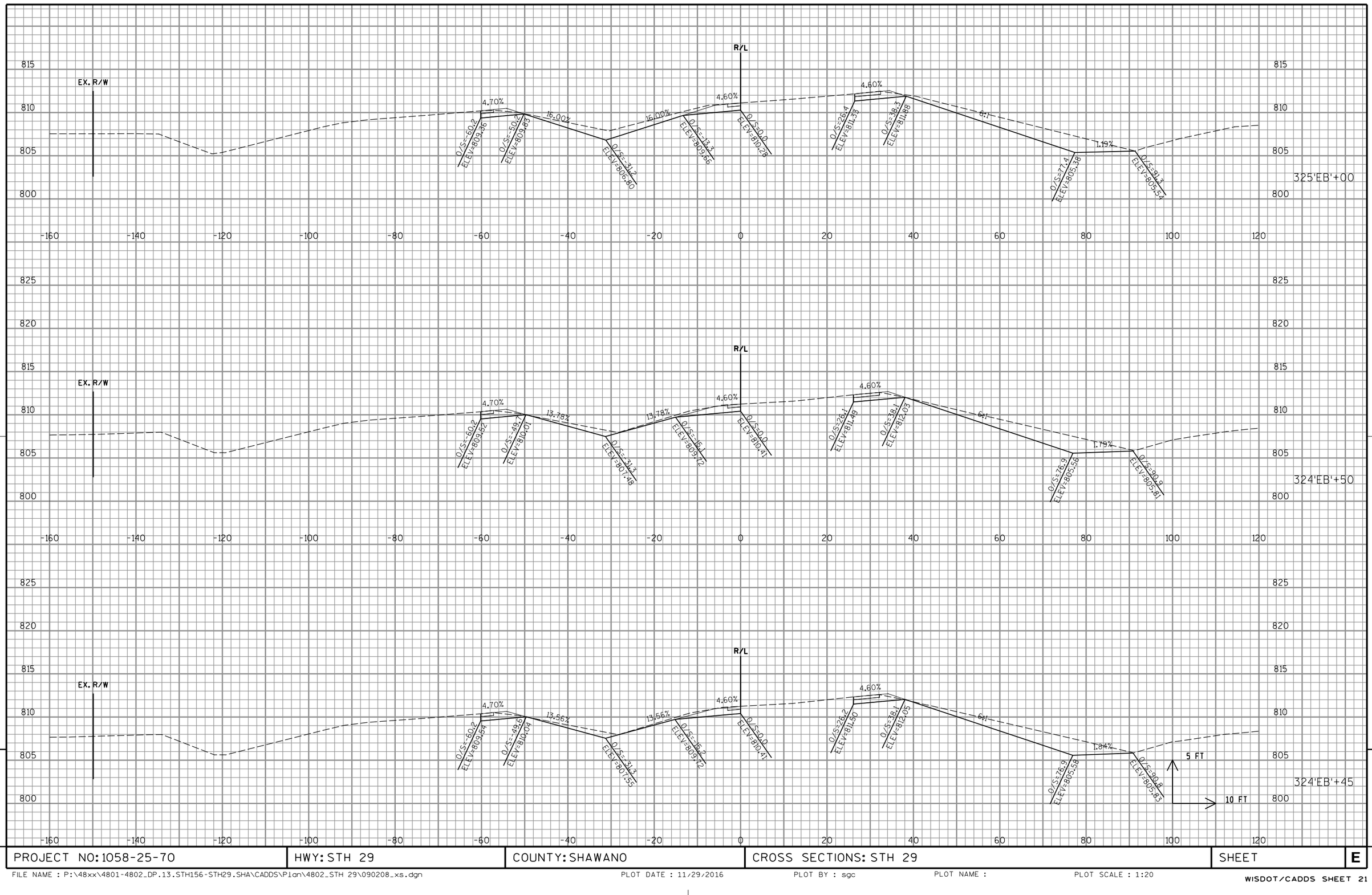
WISDOT/CADDS SHEET 21



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 29	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\090208_xs.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 29	SHEET	E

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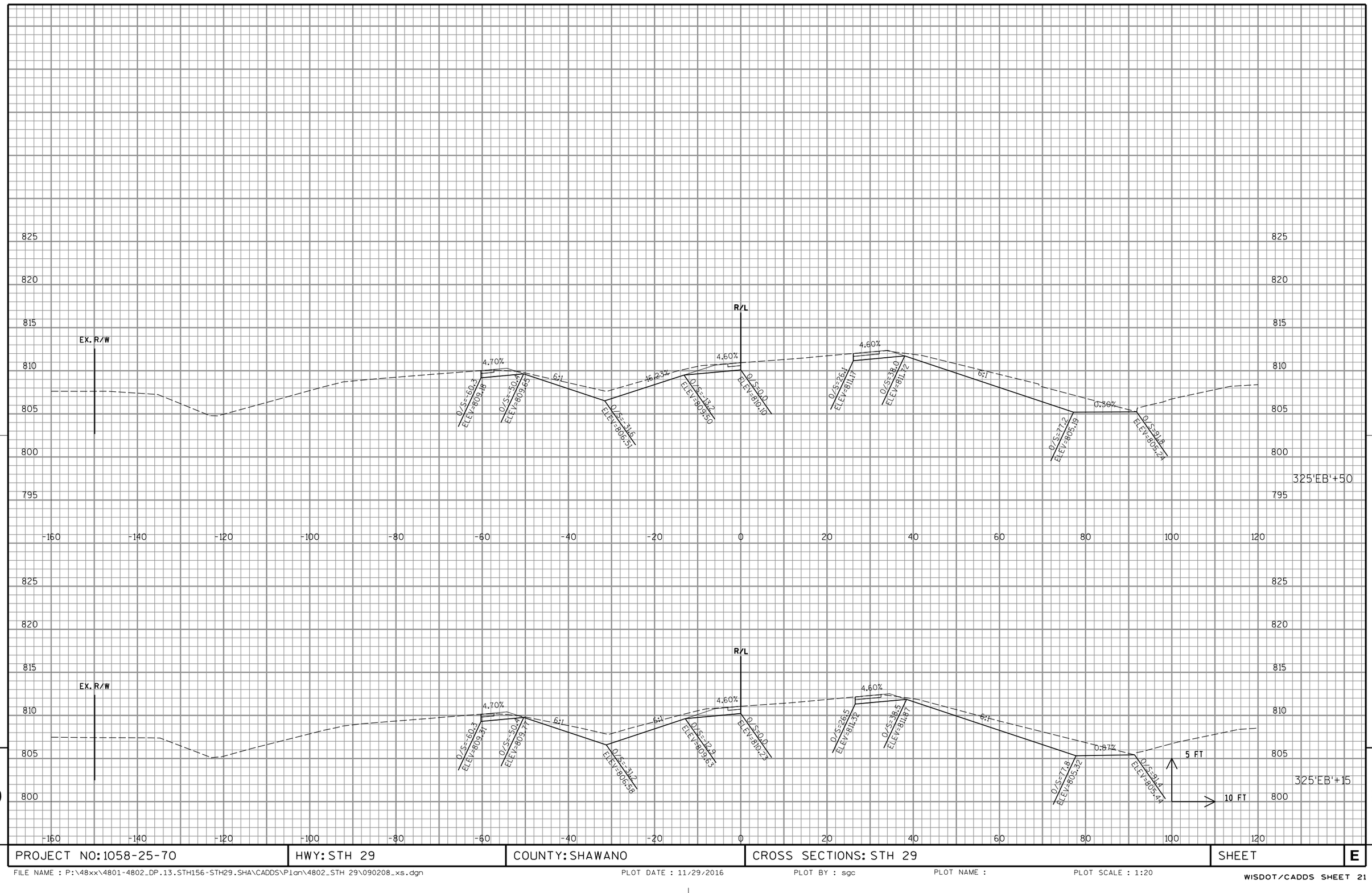
WISDOT/CADDS SHEET 21



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 29	SHEET	E

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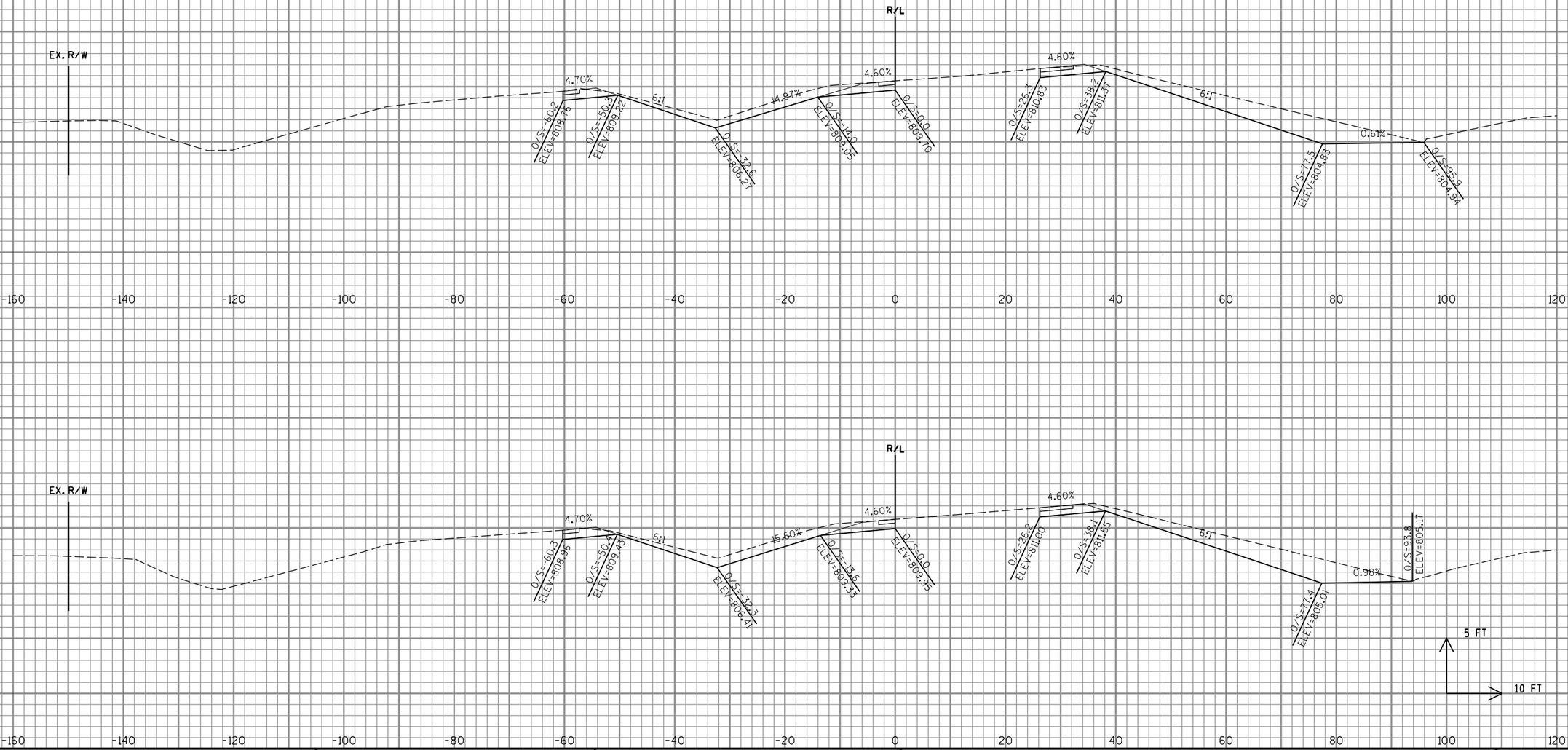
WISDOT/CADDS SHEET 21



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PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 29	SHEET	E

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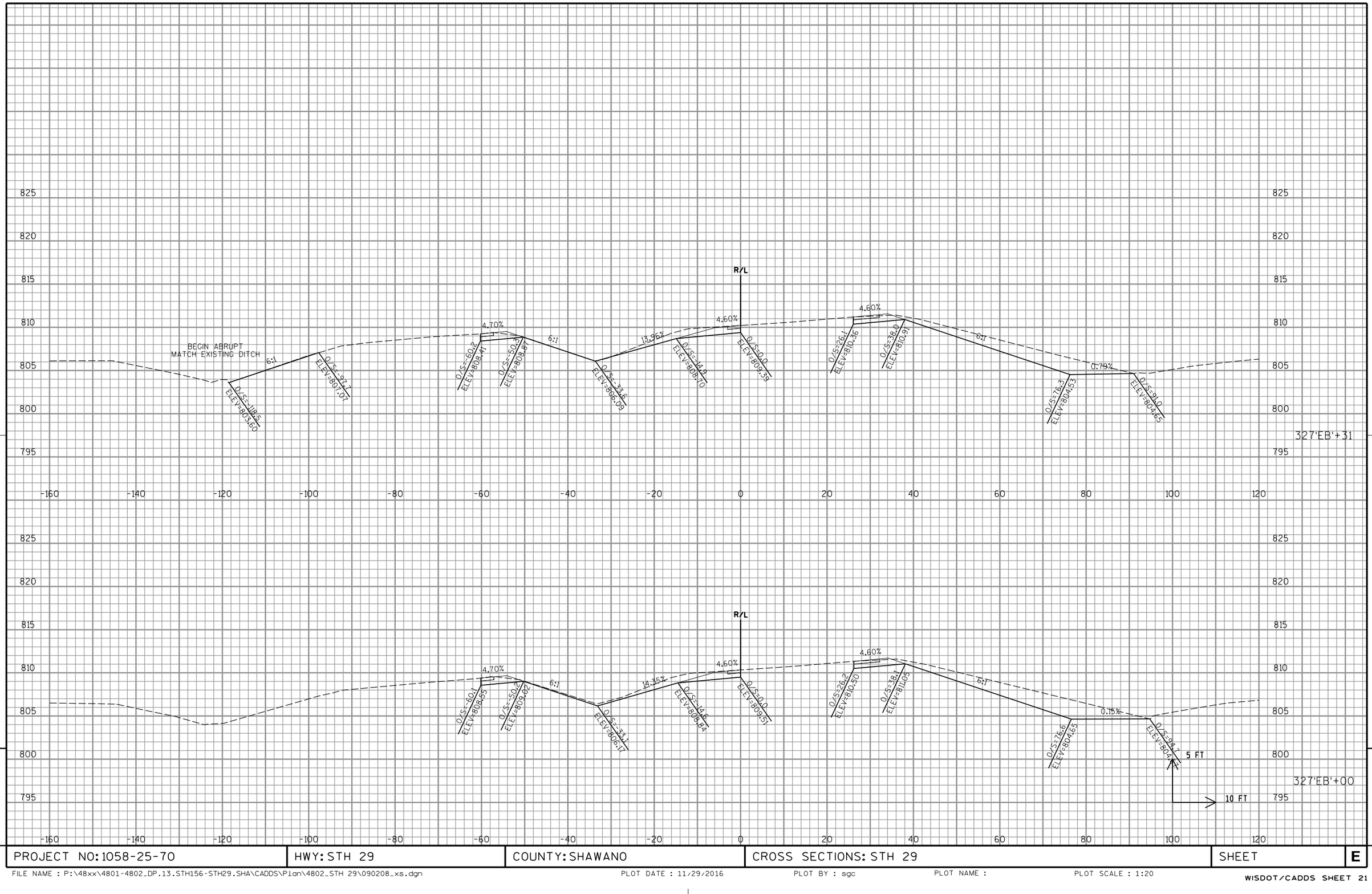
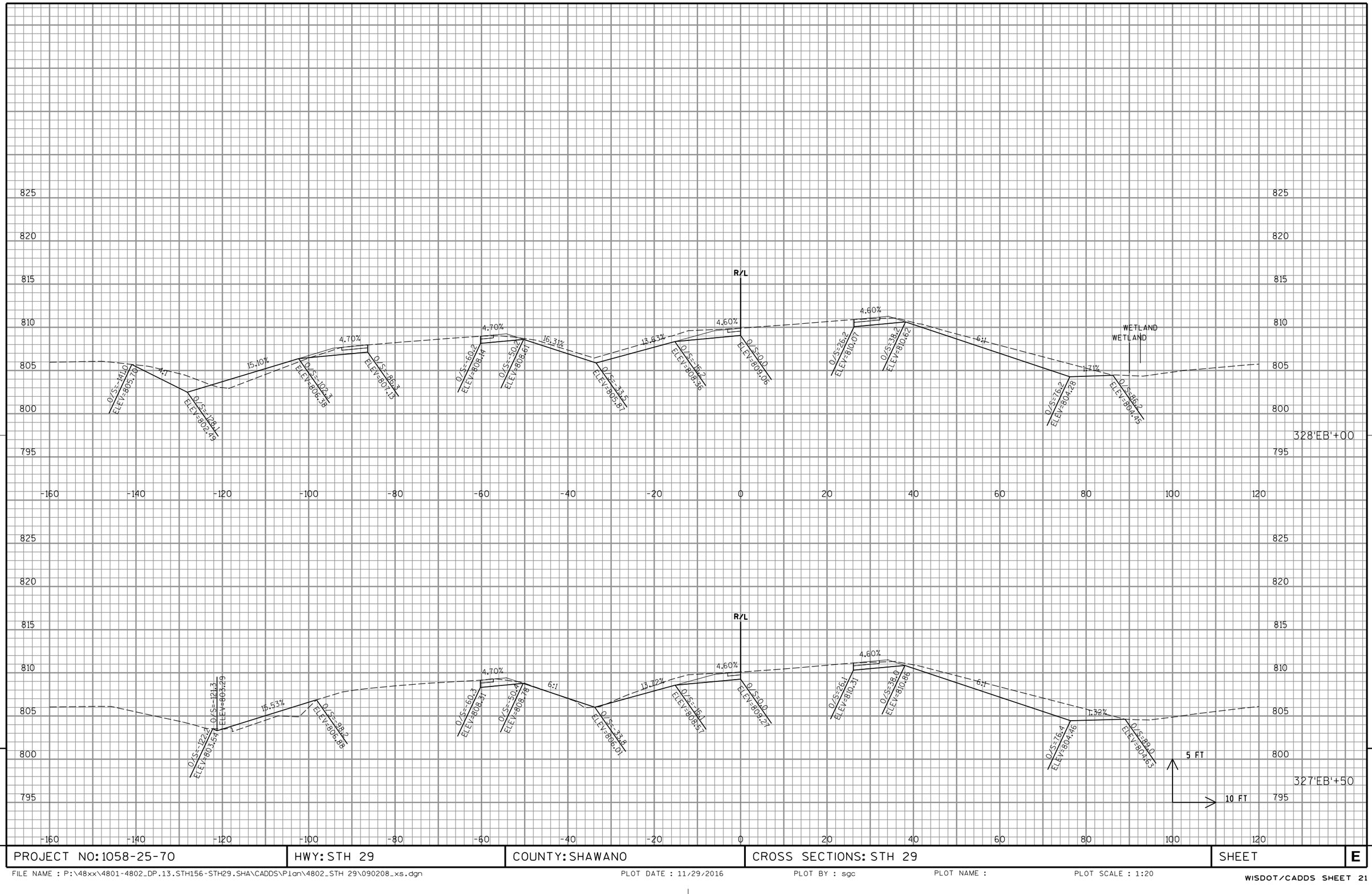
FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\090208_xs.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 29	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\090208_xs.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 29	SHEET	E

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WISDOT/CADDS SHEET 21

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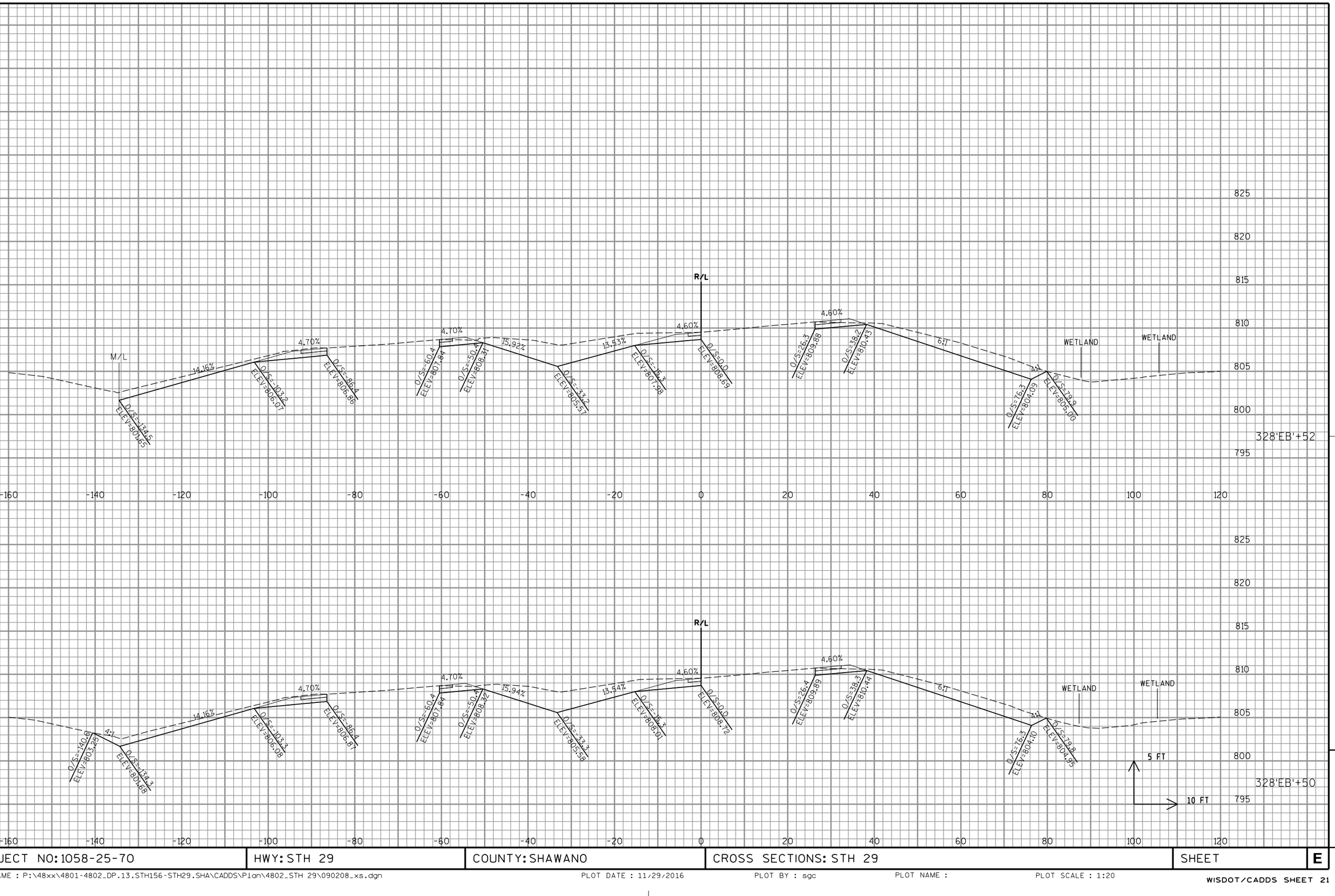

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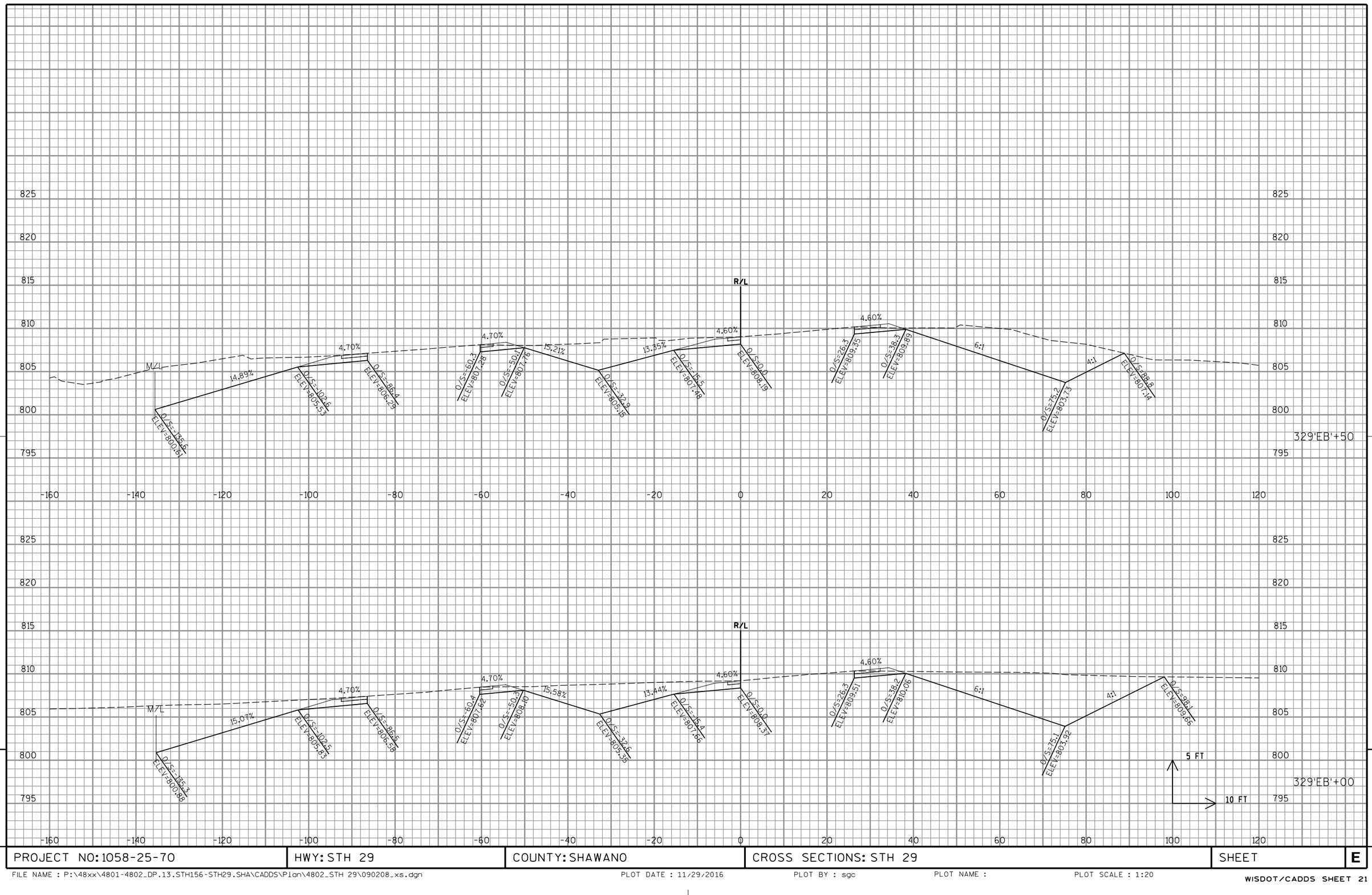
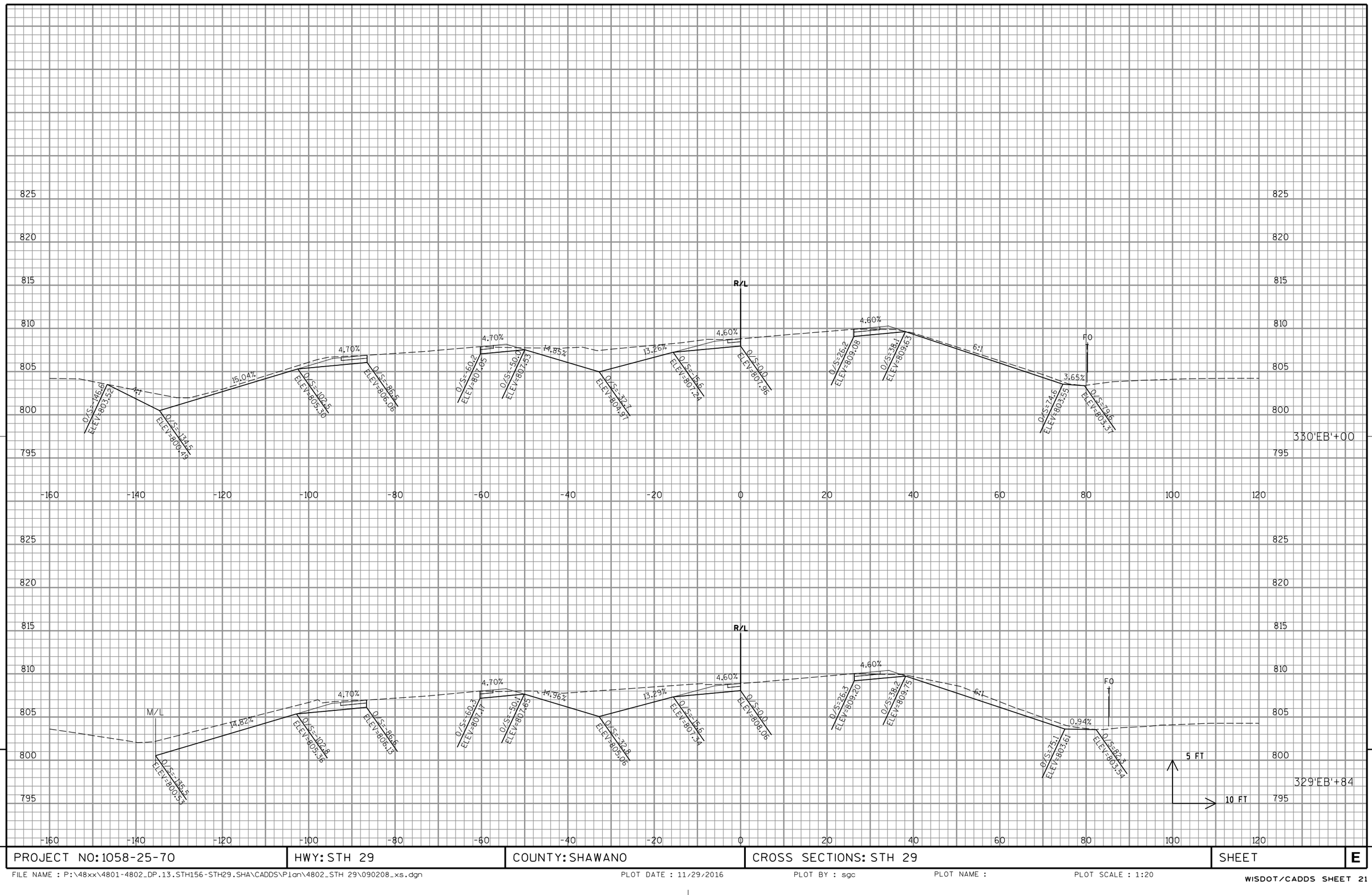


PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 29	SHEET	E



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 29	SHEET	E

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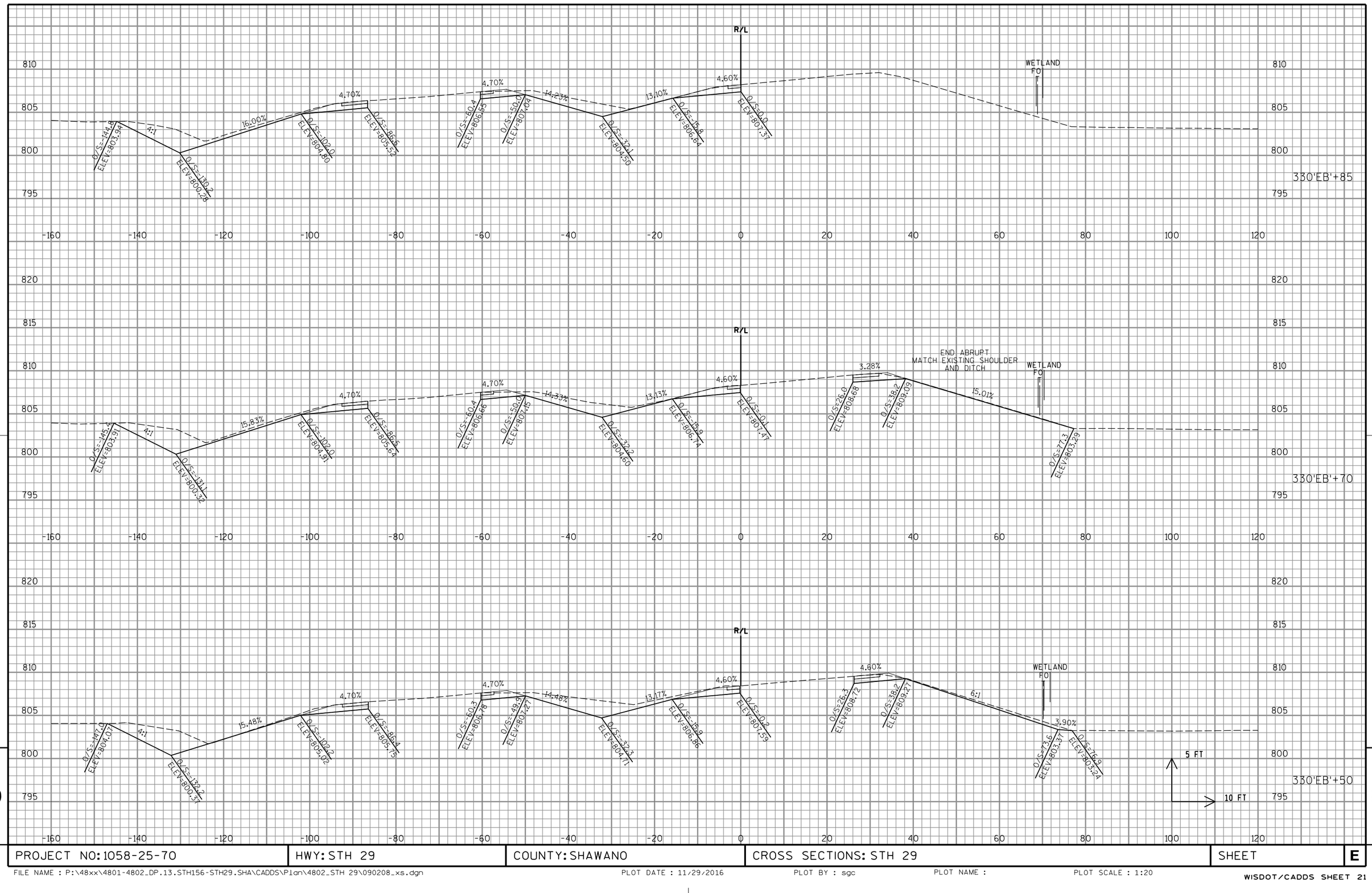
WISDOT/CADDS SHEET 21



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 29	SHEET	E

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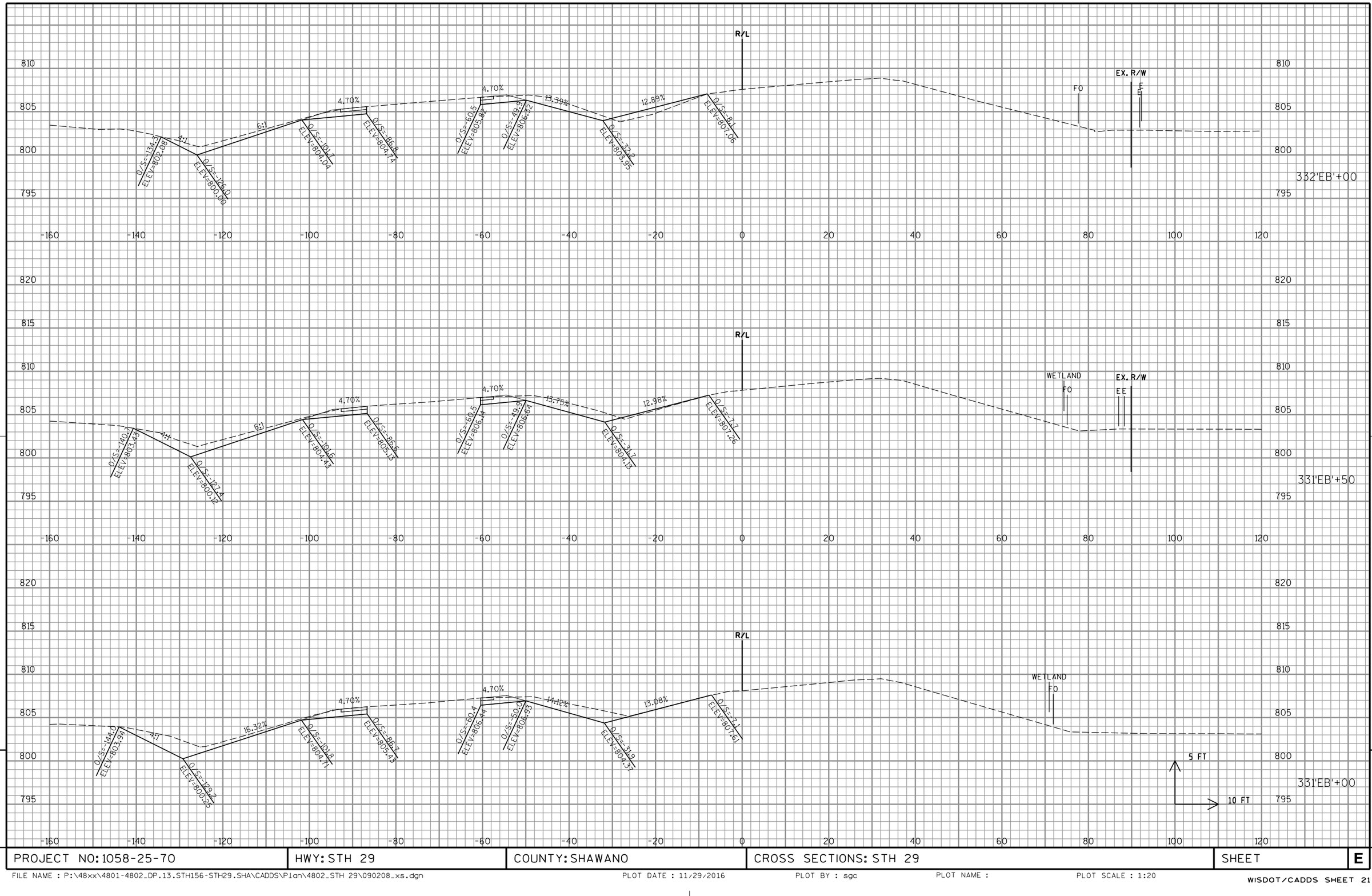

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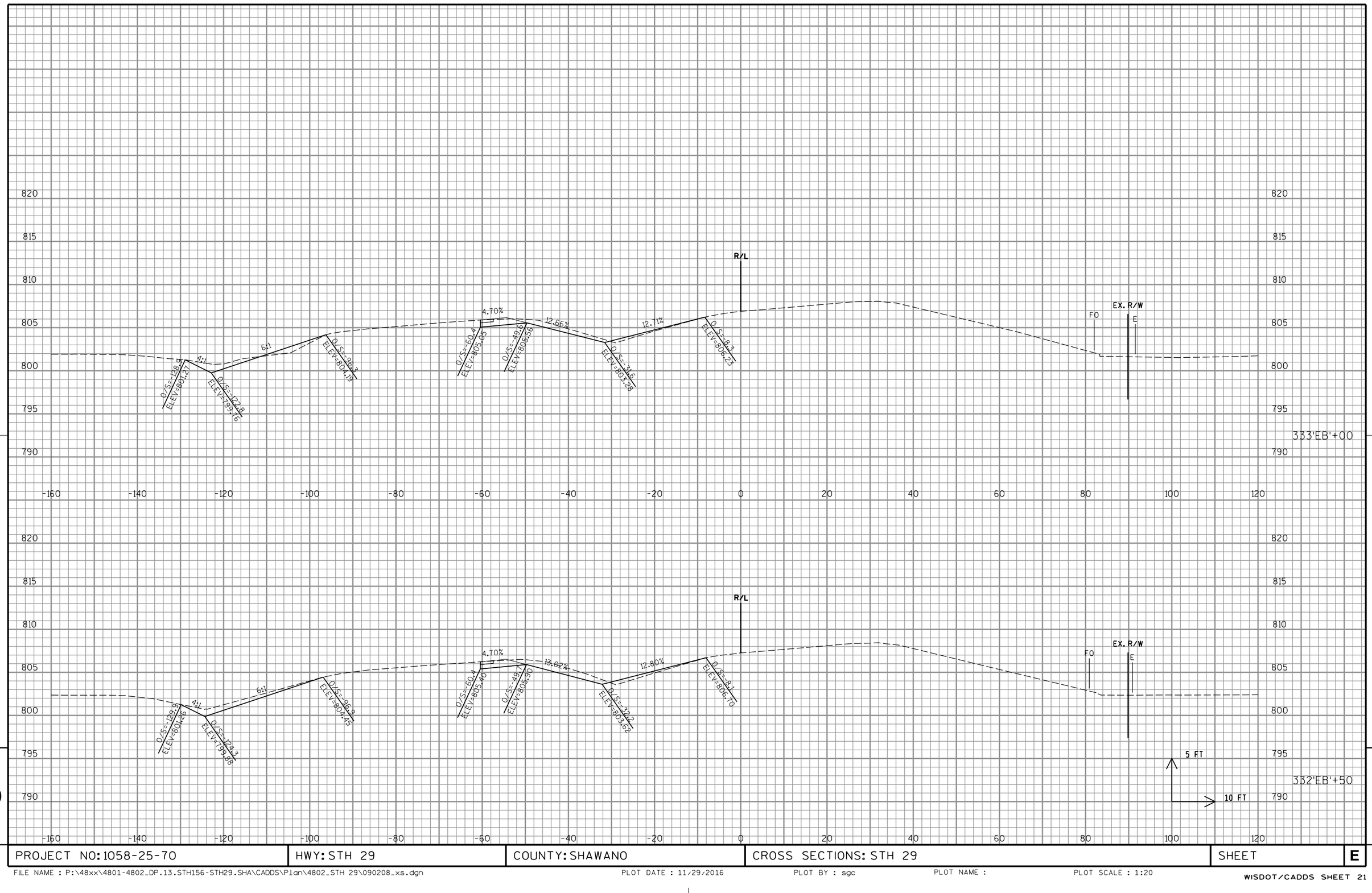
PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 29	SHEET	E



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 29	SHEET	E

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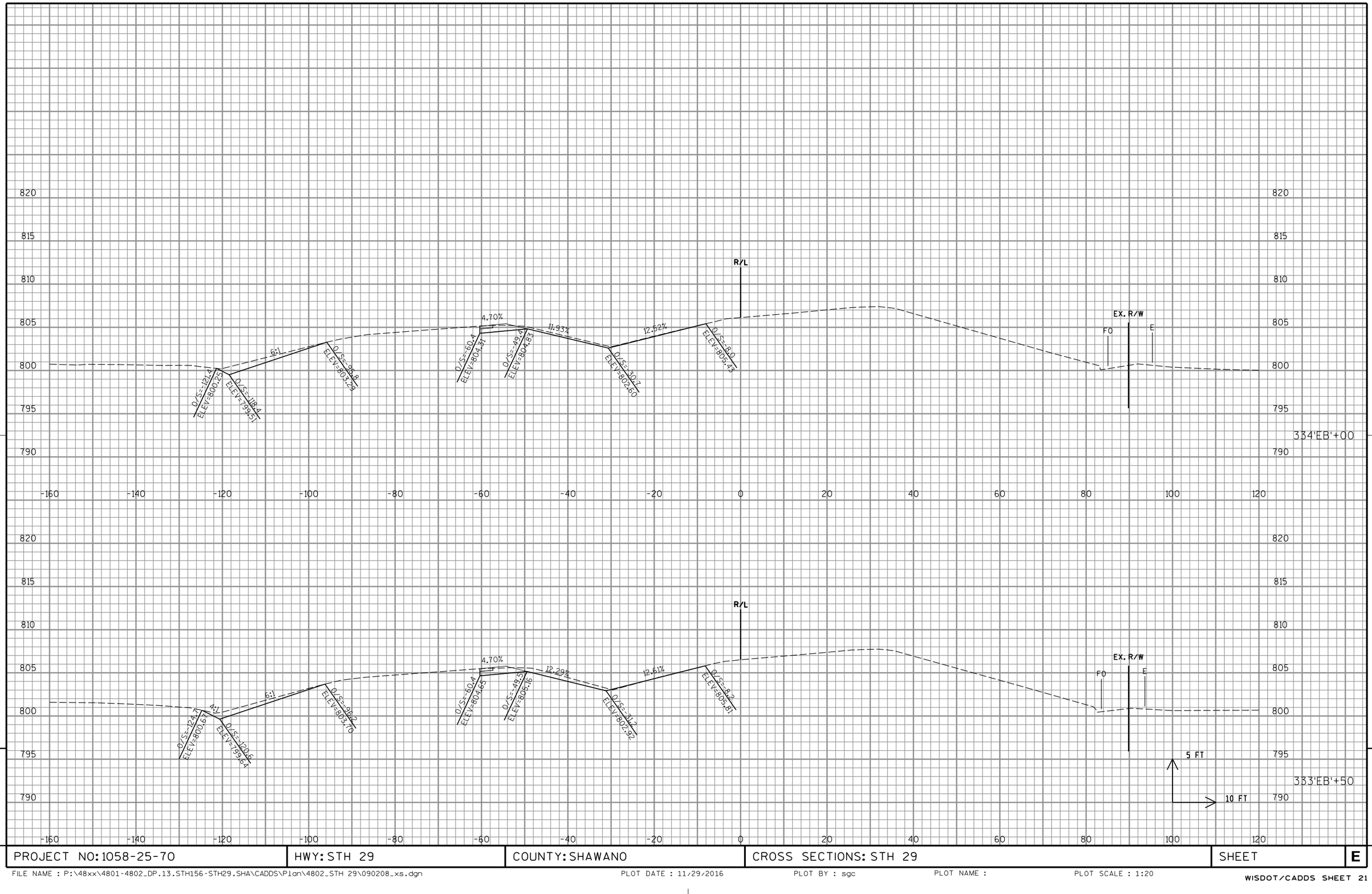
WISDOT/CADDS SHEET 21



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 29	SHEET	E

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WISDOT/CADDS SHEET 21

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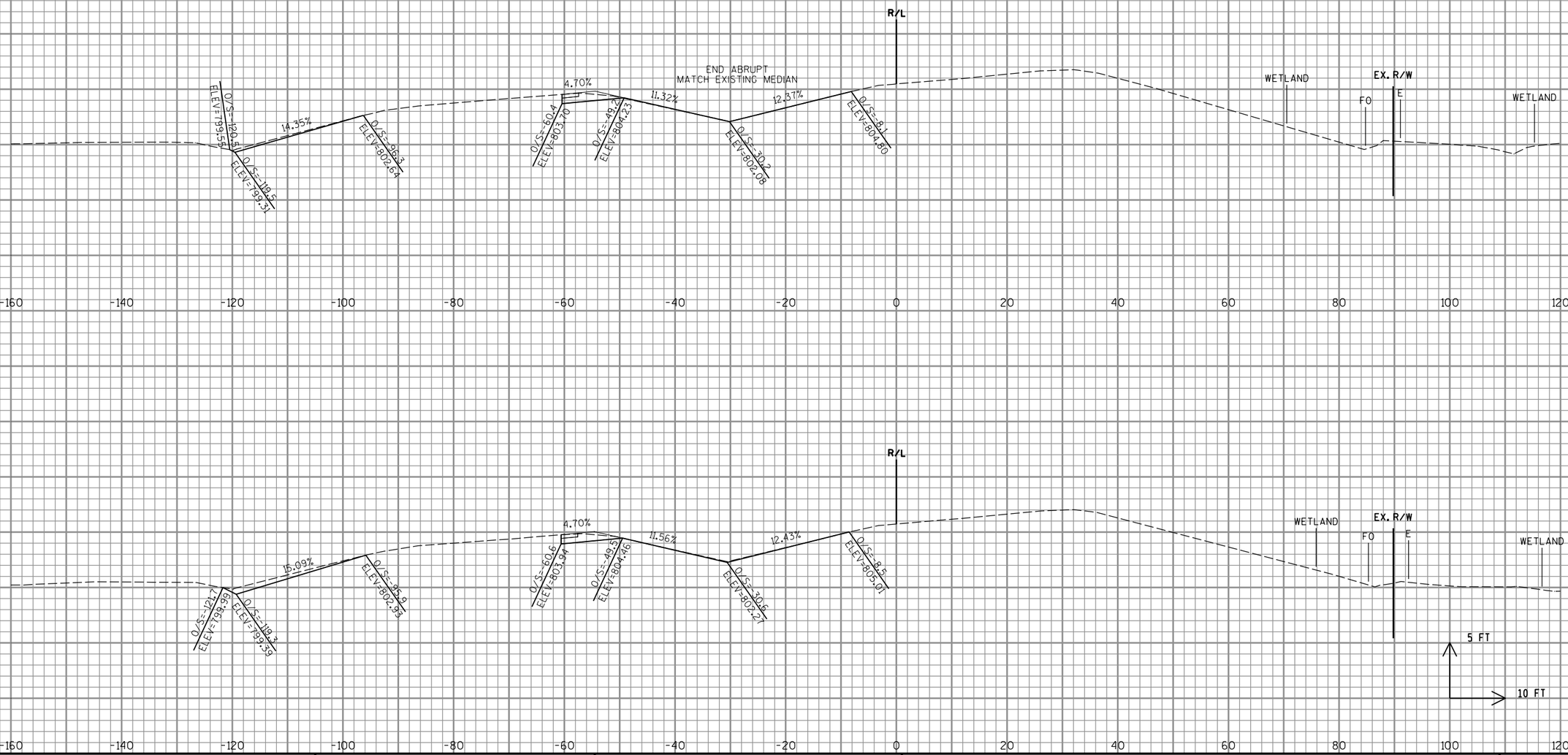

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PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 29	SHEET	E

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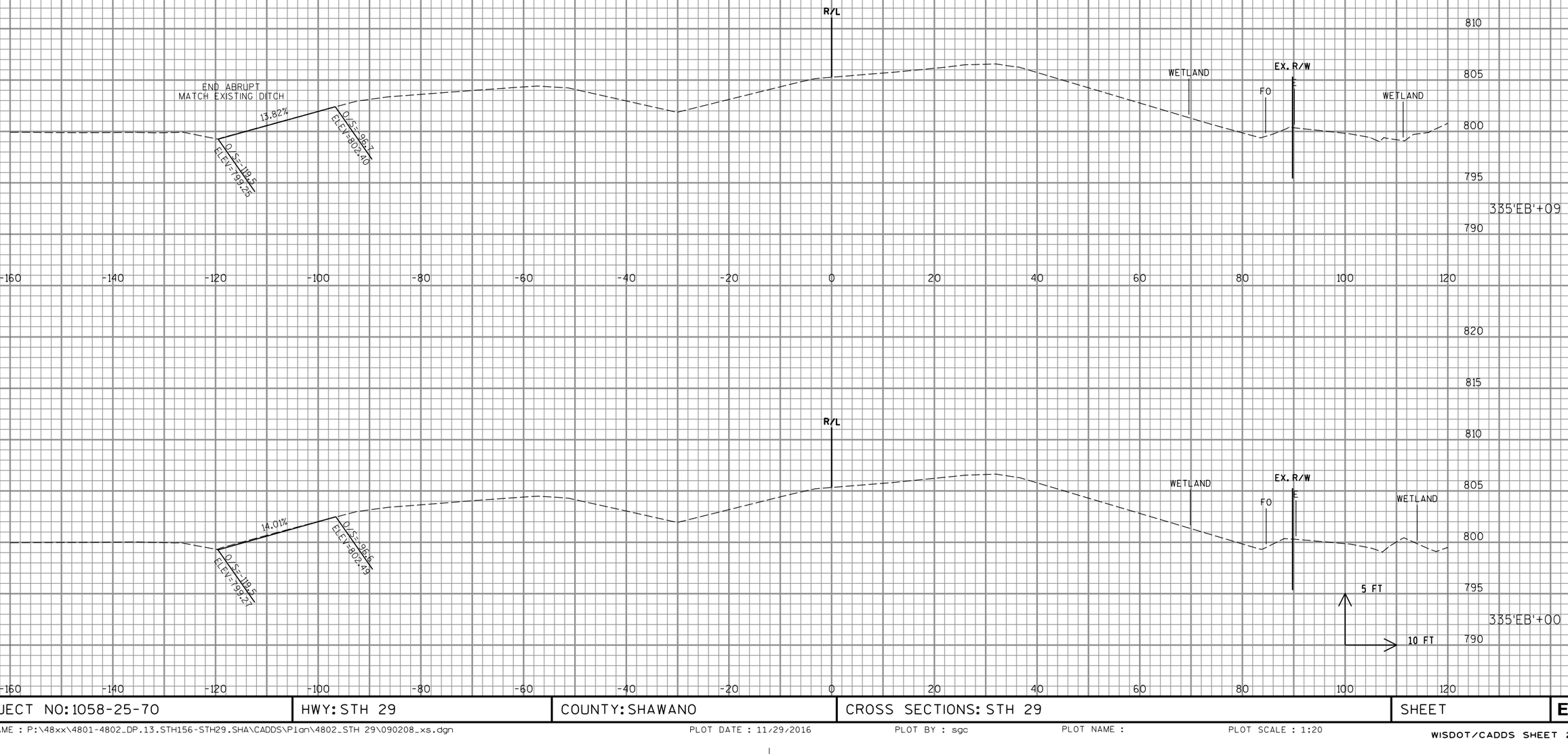
WISDOT/CADDS SHEET 21



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PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: STH 29	SHEET	E

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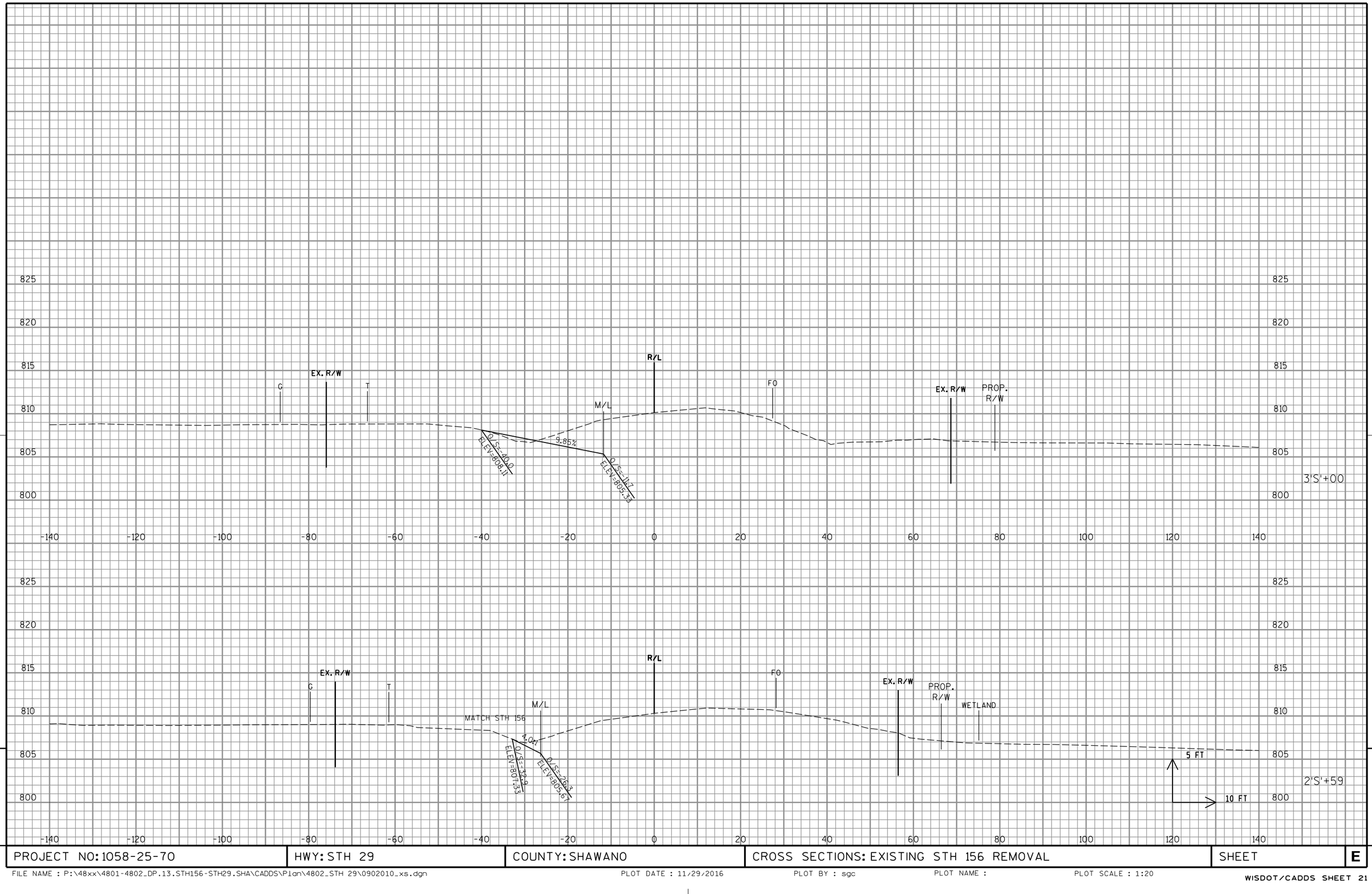

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PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: EXISTING STH 156 REMOVAL	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\0902010_xs.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

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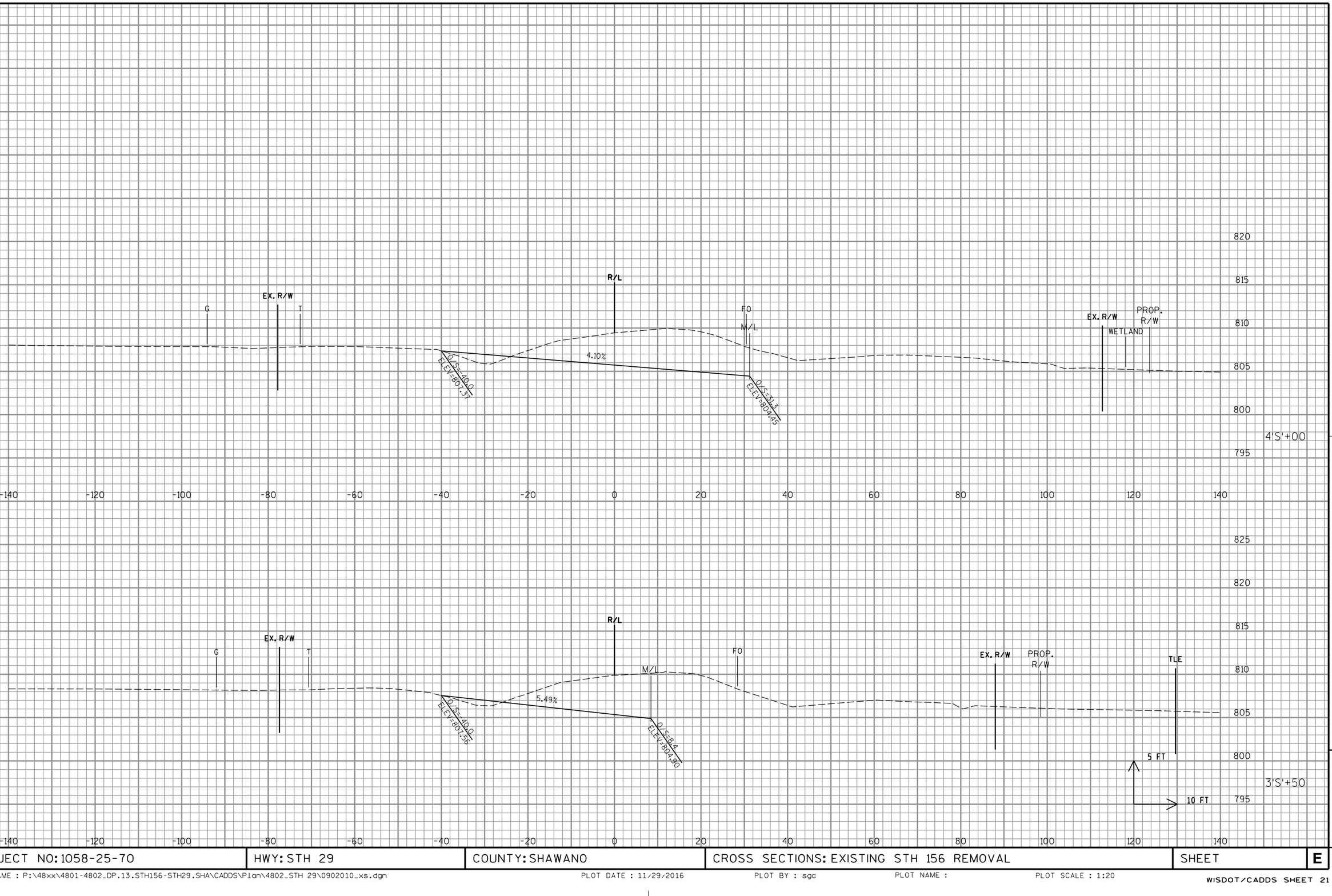
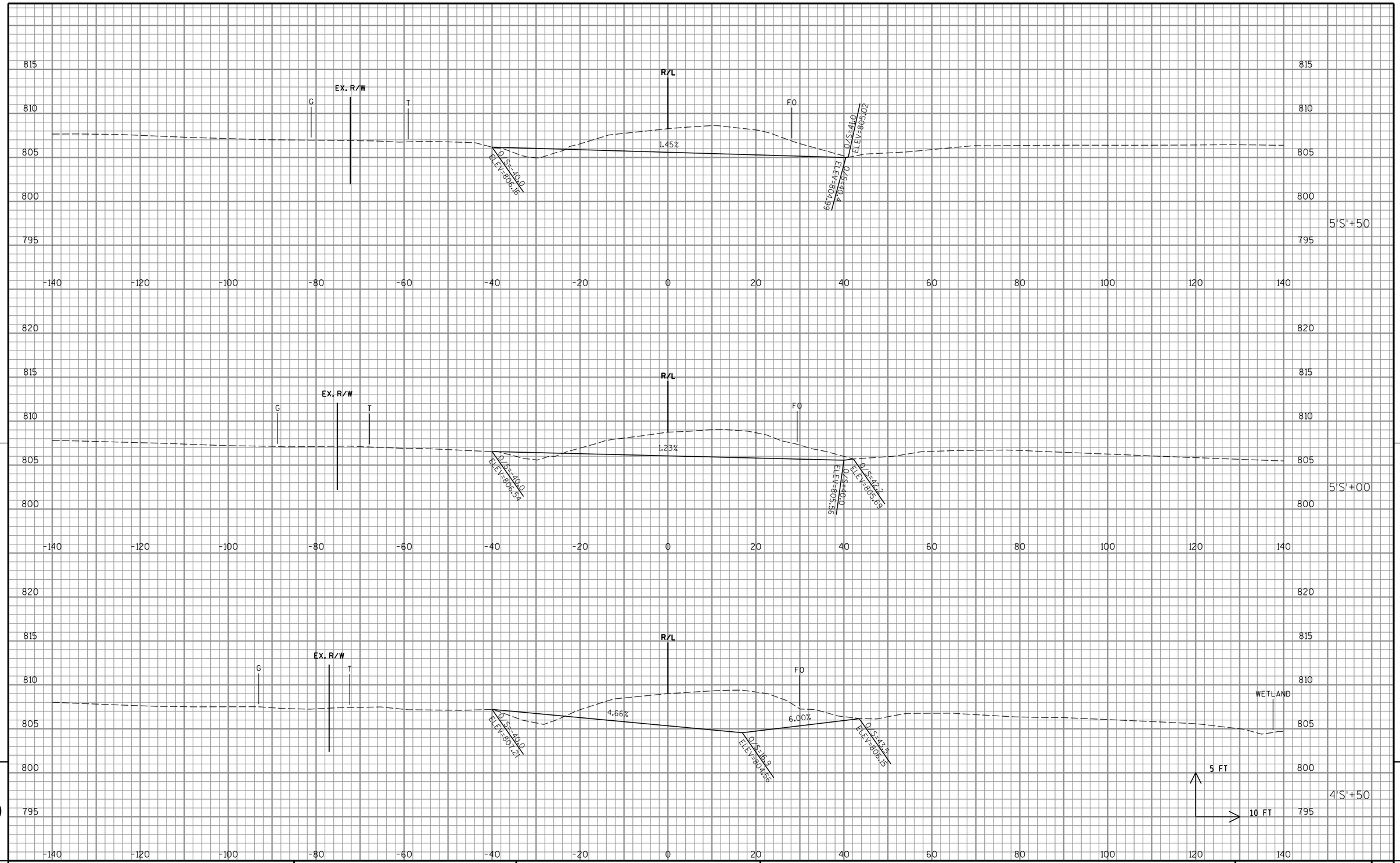


PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: EXISTING STH 156 REMOVAL	SHEET	E



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PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: EXISTING STH 156 REMOVAL	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\0902010_xs.dgn

PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

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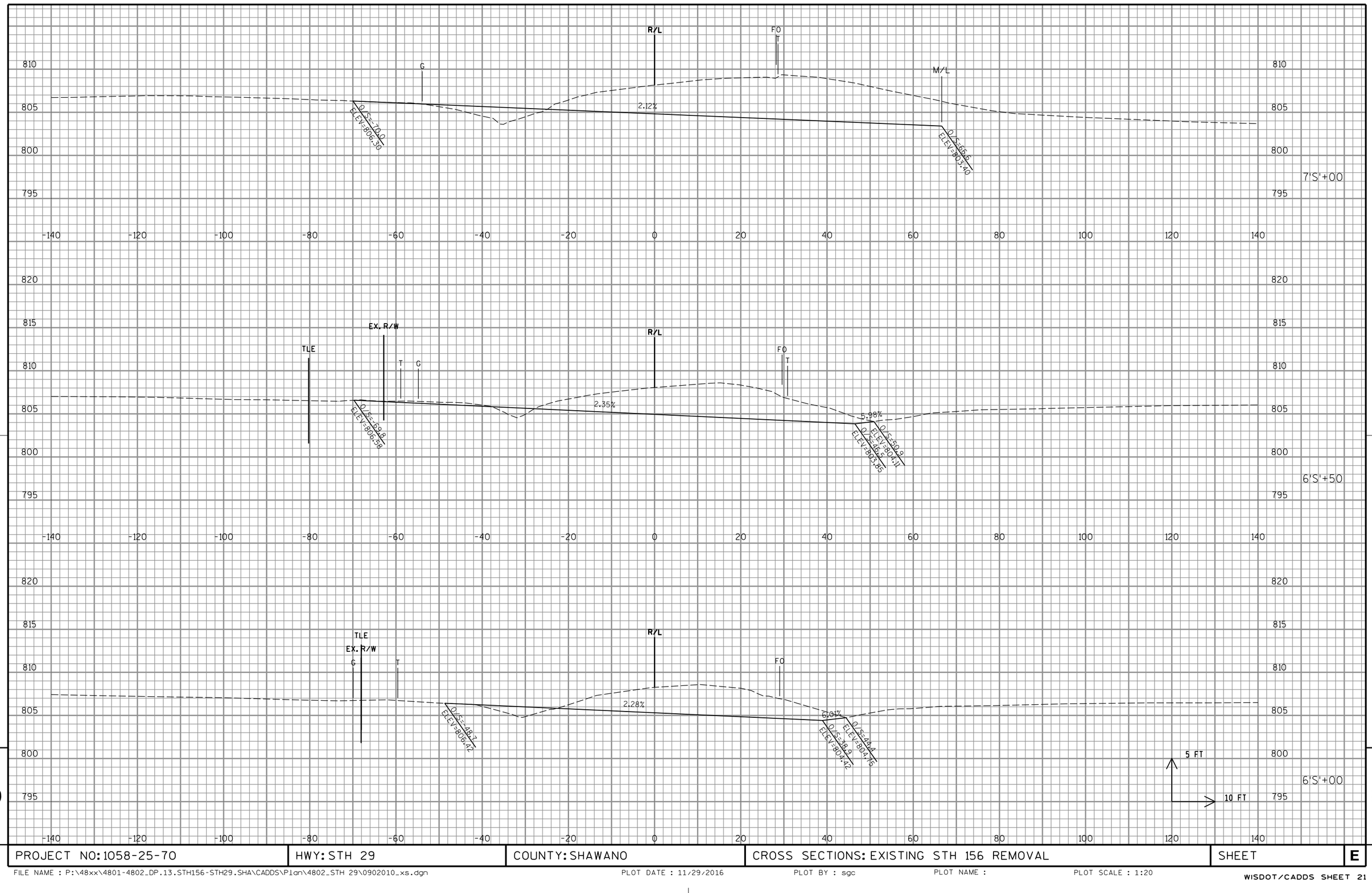

PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: EXISTING STH 156 REMOVAL	SHEET	E

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WISDOT/CADDS SHEET 21

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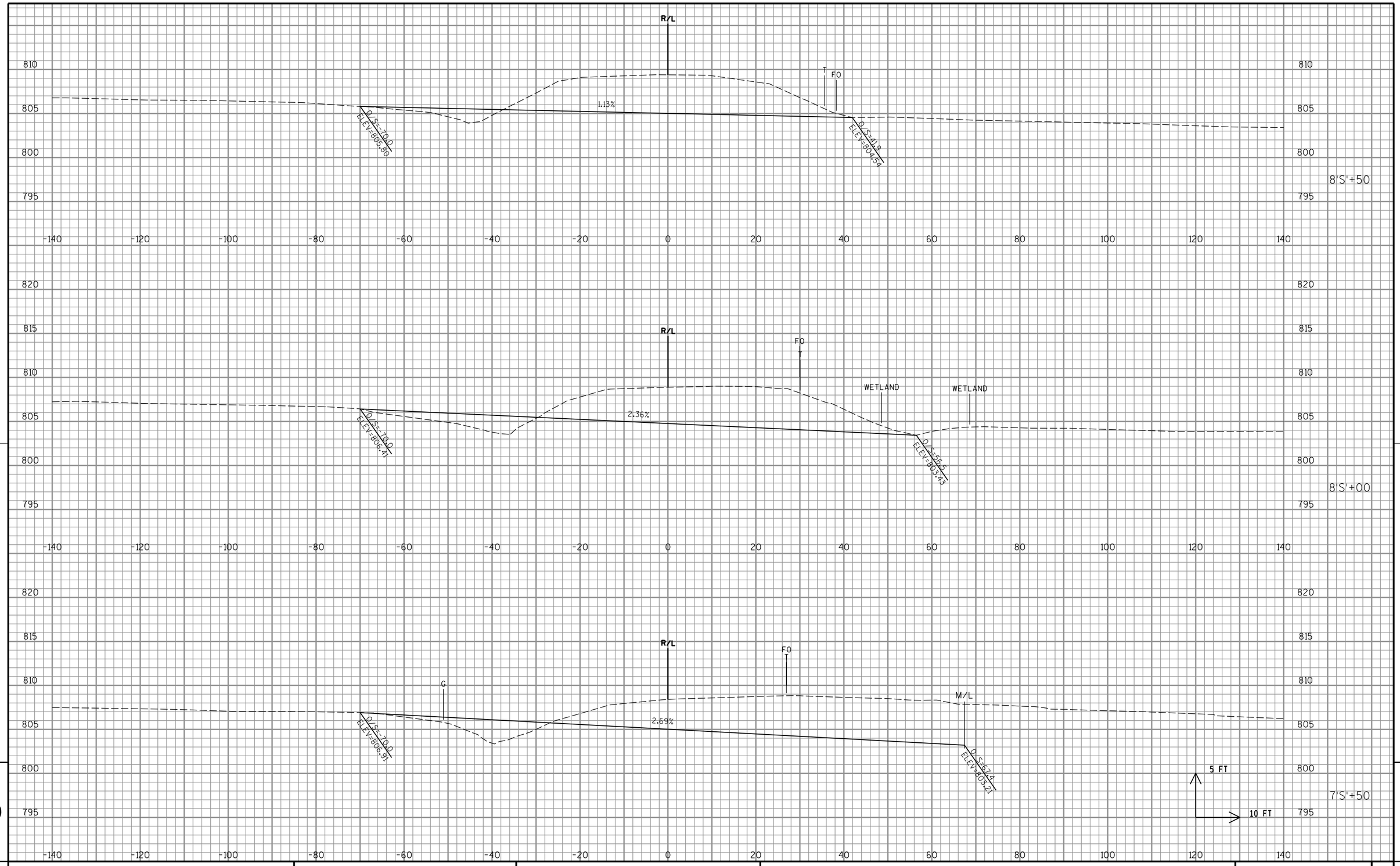

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PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: EXISTING STH 156 REMOVAL	SHEET	E

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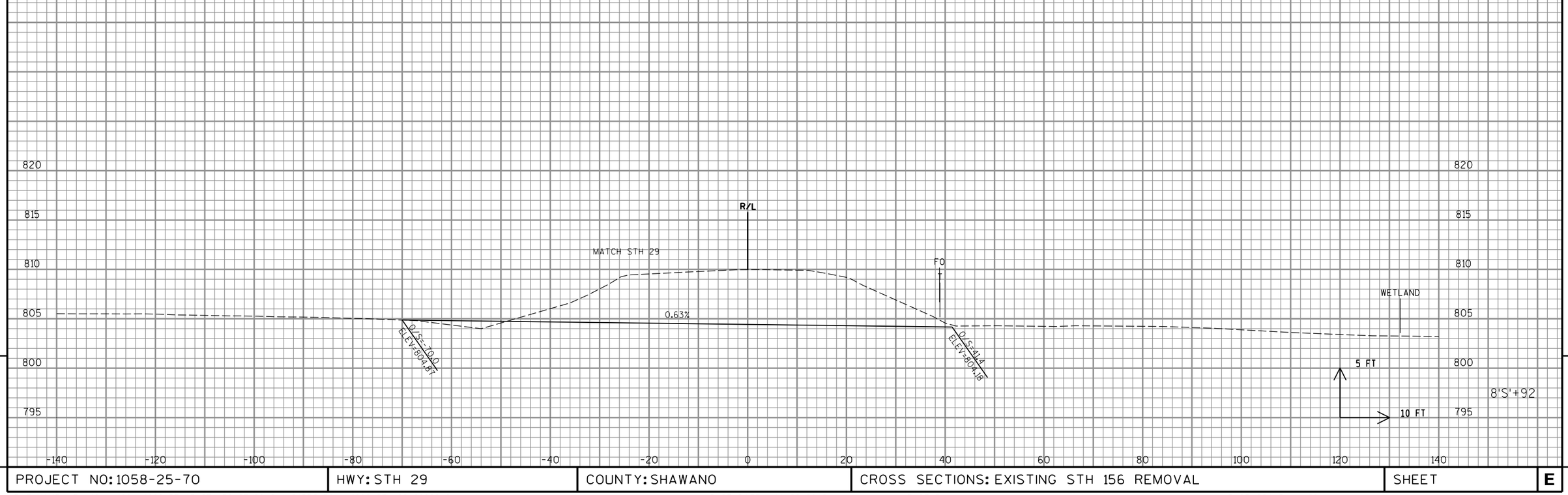
WISDOT/CADDS SHEET 21



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PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: EXISTING STH 156 REMOVAL	SHEET	E

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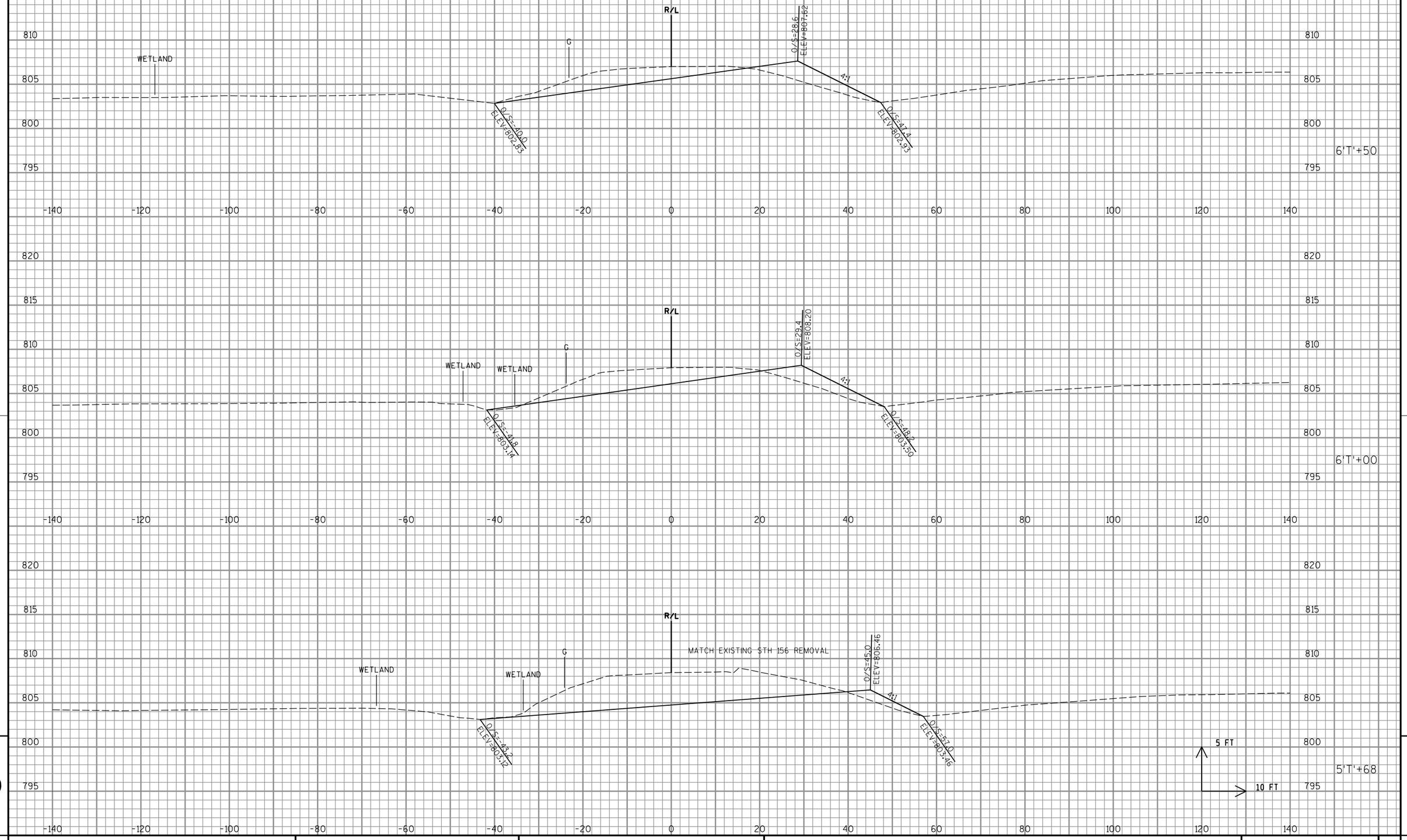
WISDOT/CADDS SHEET 21



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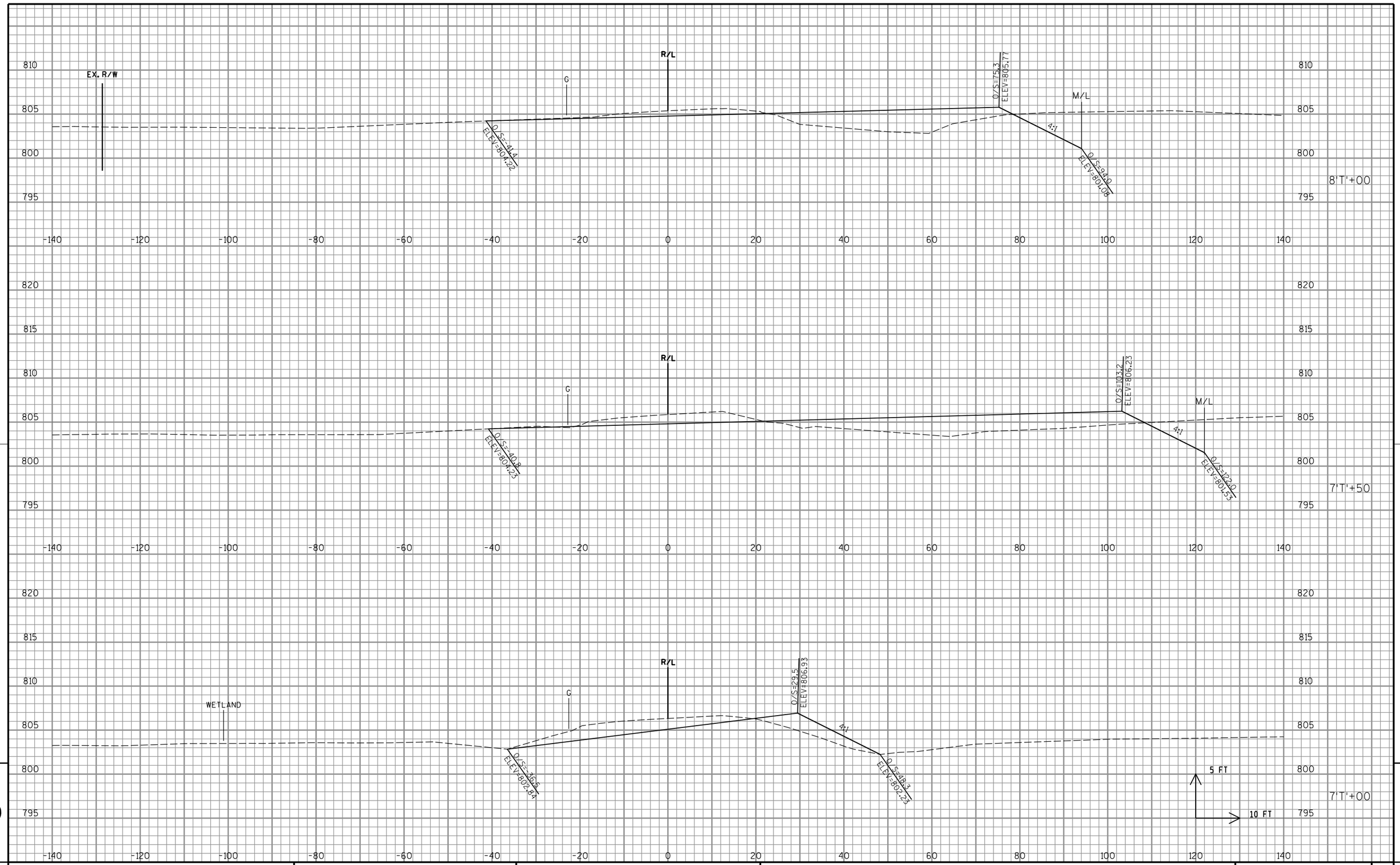
PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: OLD 29 DR REMOVAL	SHEET	E

9

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\0902010_xs.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

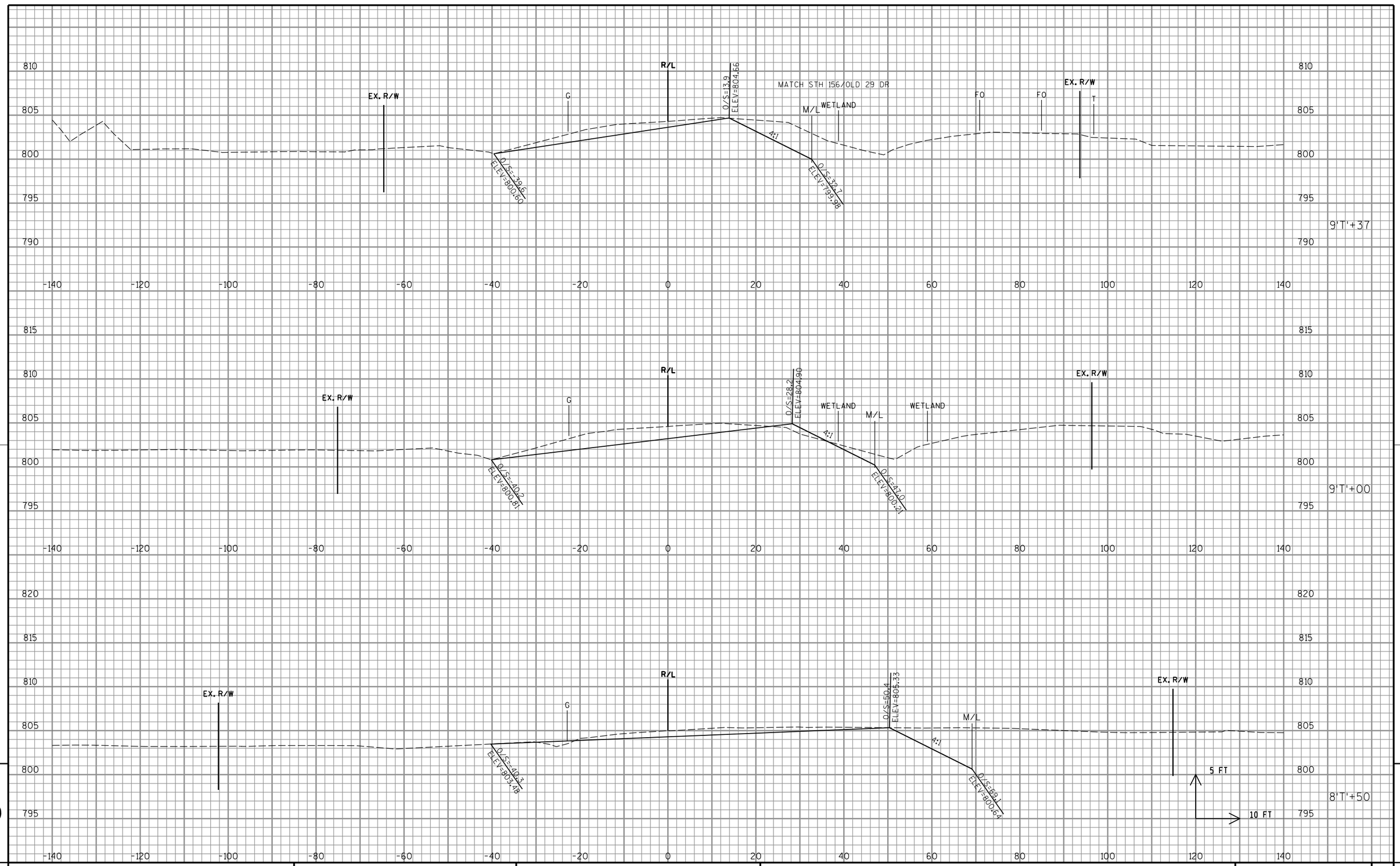
WISDOT/CADDS SHEET 21



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: OLD 29 DR REMOVAL	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\0902010_xs.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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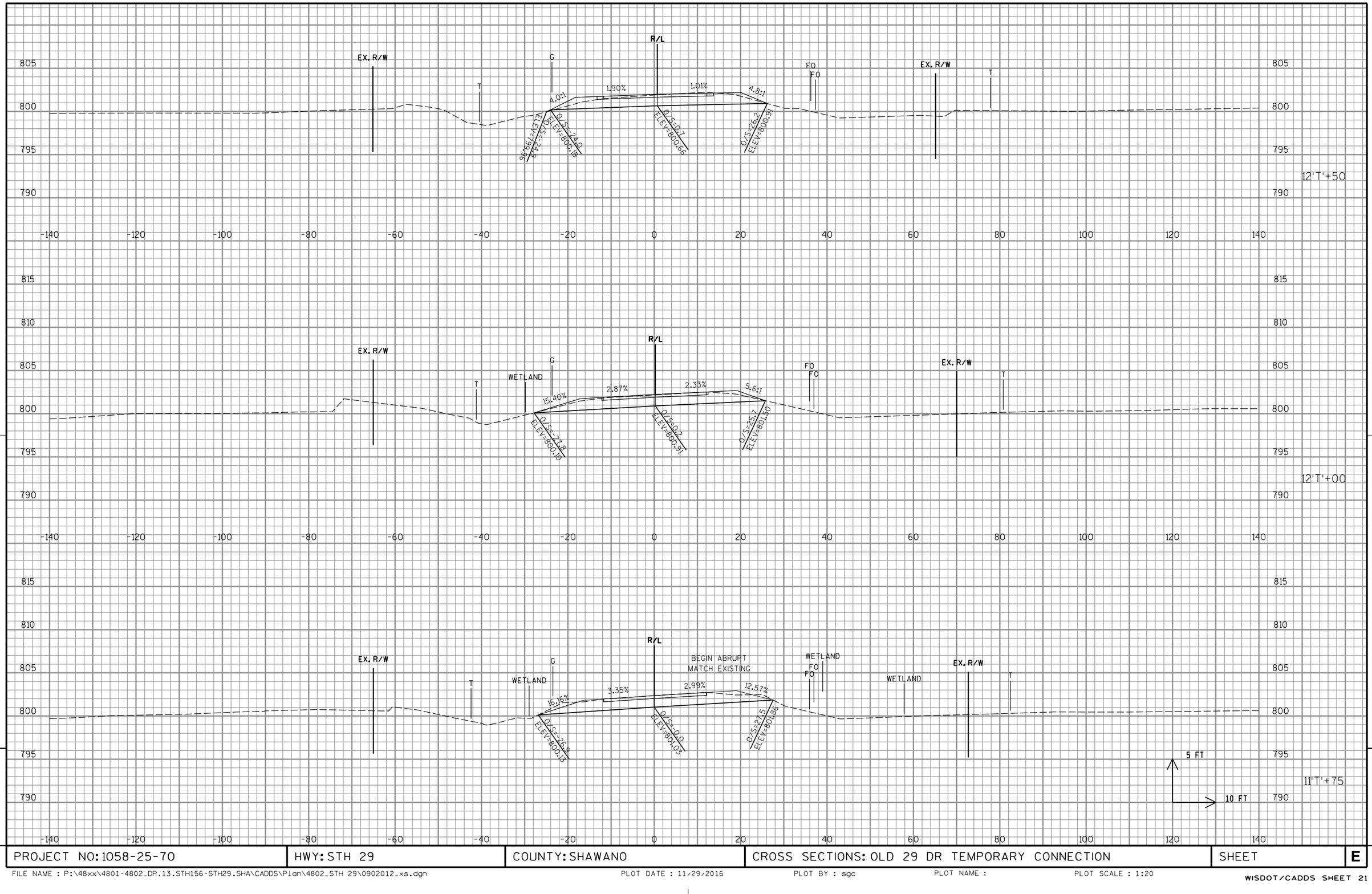
PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: OLD 29 DR REMOVAL	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\0902010_xs.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: OLD 29 DR TEMPORARY CONNECTION	SHEET E

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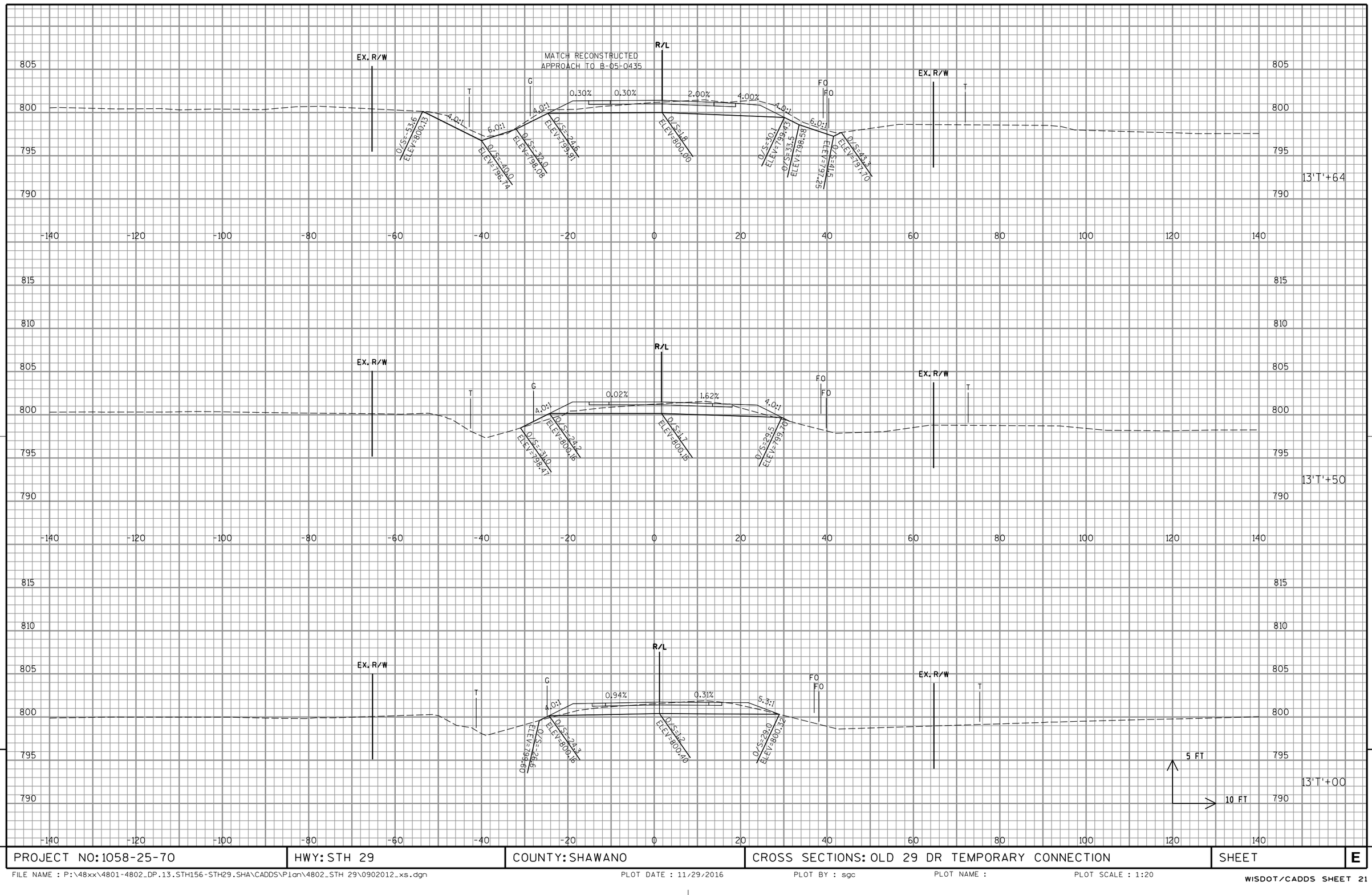
PLOT NAME :
PLOT SCALE : 1:20
WISDOT/CADDS SHEET 21

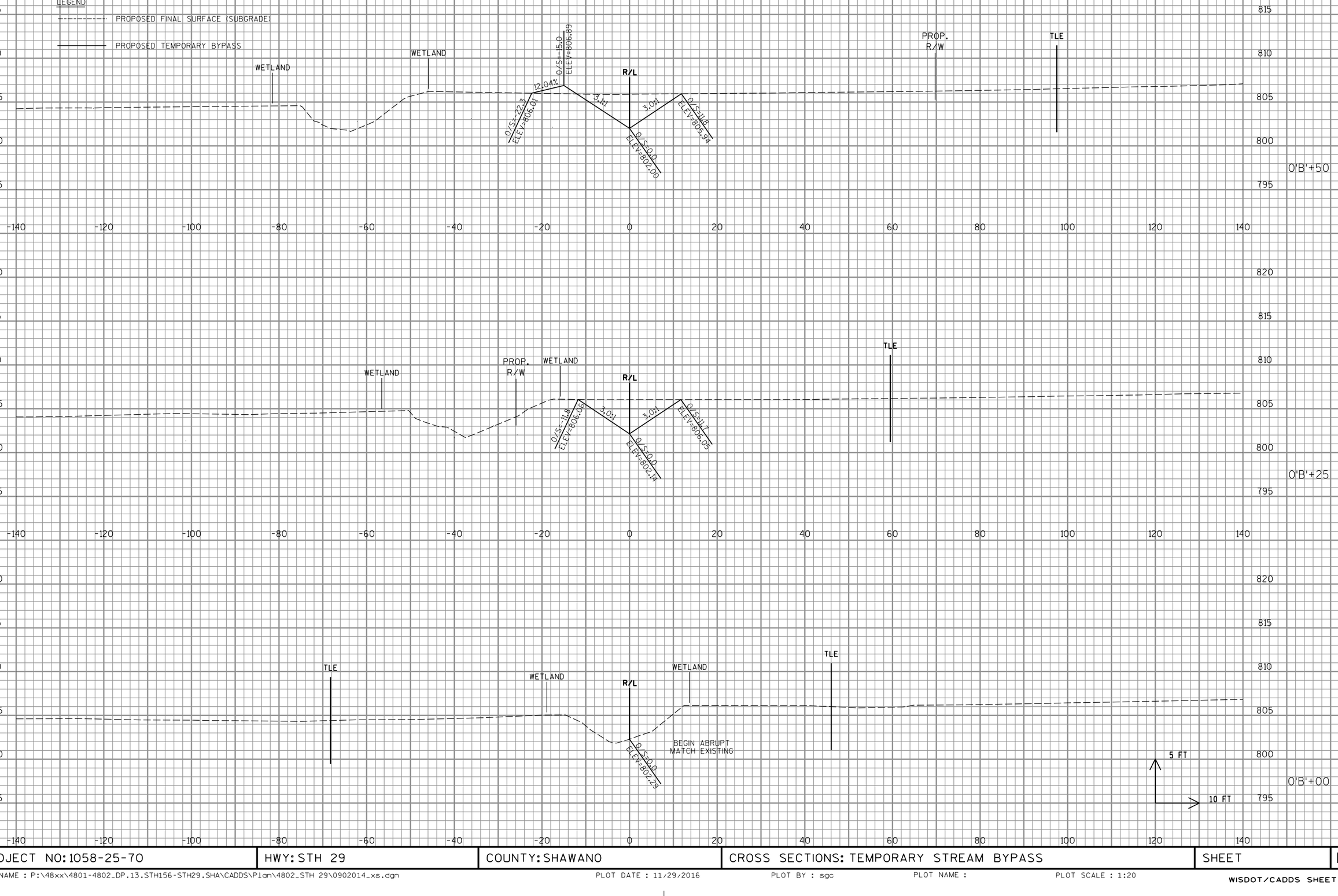


PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: OLD 29 DR TEMPORARY CONNECTION	SHEET E

LEGEND

PROPOSED FINAL SURFACE (SUBGRADE)

PROPOSED TEMPORARY BYPASS



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: TEMPORARY STREAM BYPASS	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\0902014_xs.dgn

PLOT DATE : 11/29/2016

PLOT BY : sgc

PLOT NAME :

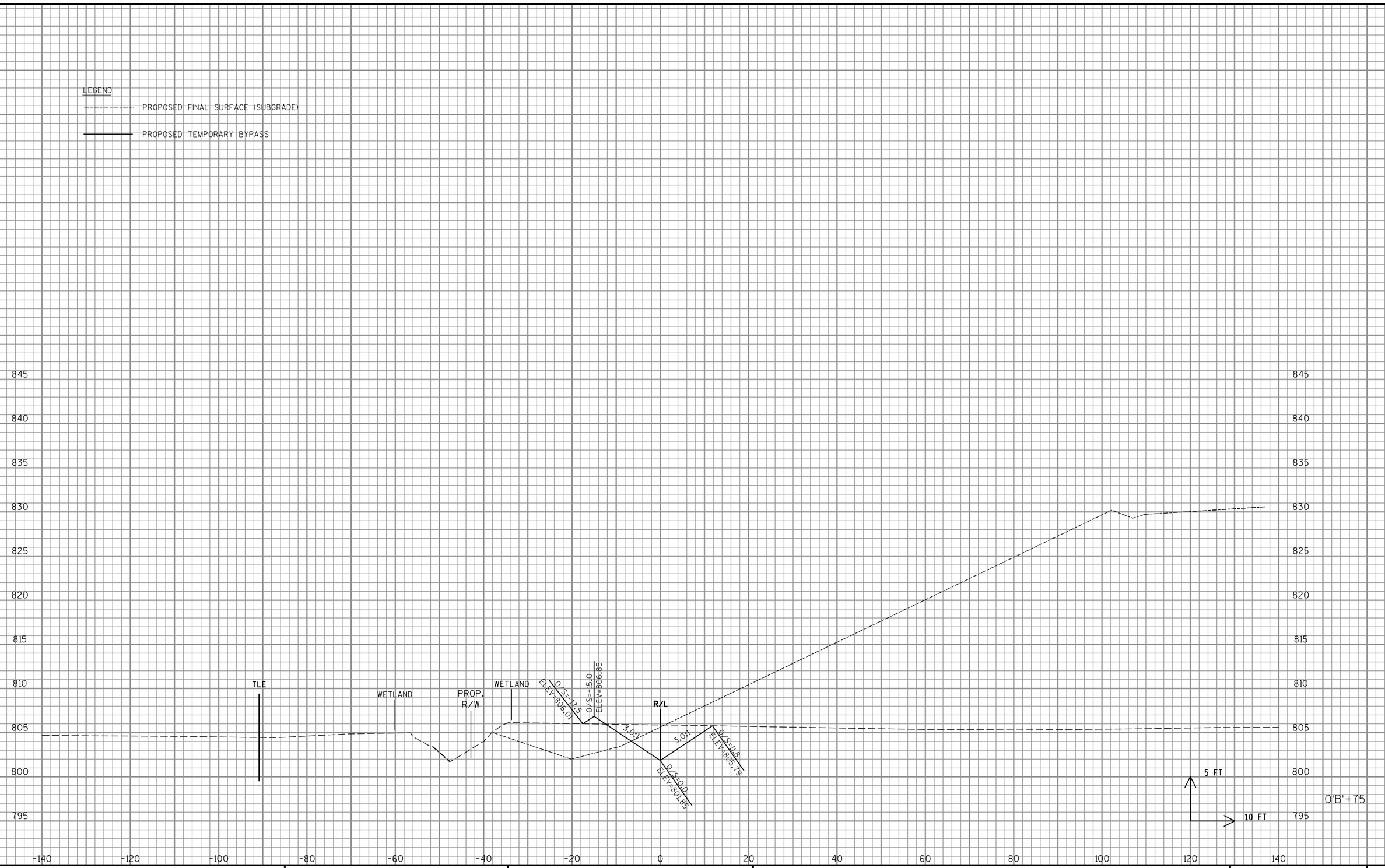
PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

LEGEND

PROPOSED FINAL SURFACE (SUBGRADE)

PROPOSED TEMPORARY BYPASS



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: TEMPORARY STREAM BYPASS	SHEET	E

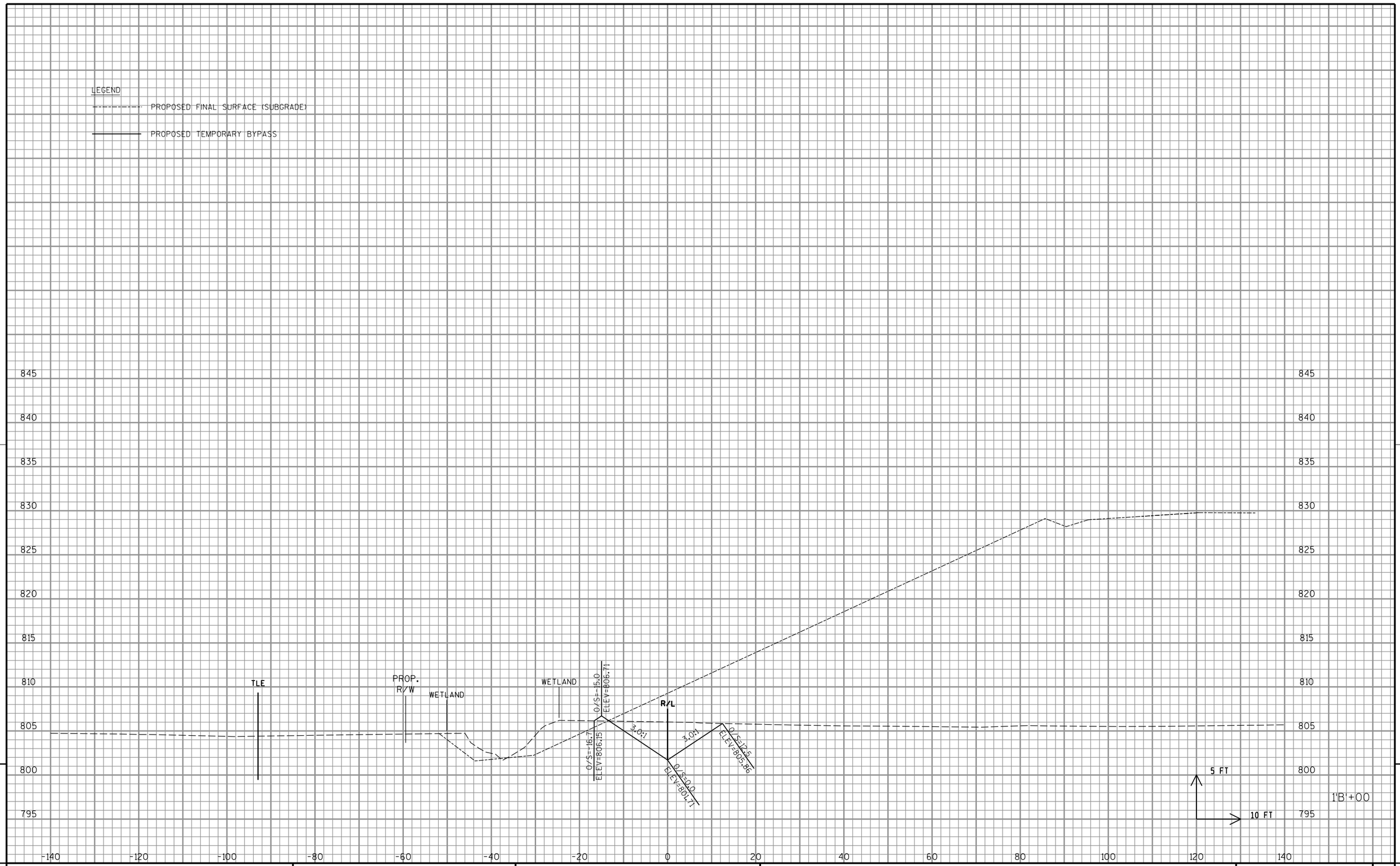
FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\0902014_xs.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

LEGEND

PROPOSED FINAL SURFACE (SUBGRADE)

PROPOSED TEMPORARY BYPASS



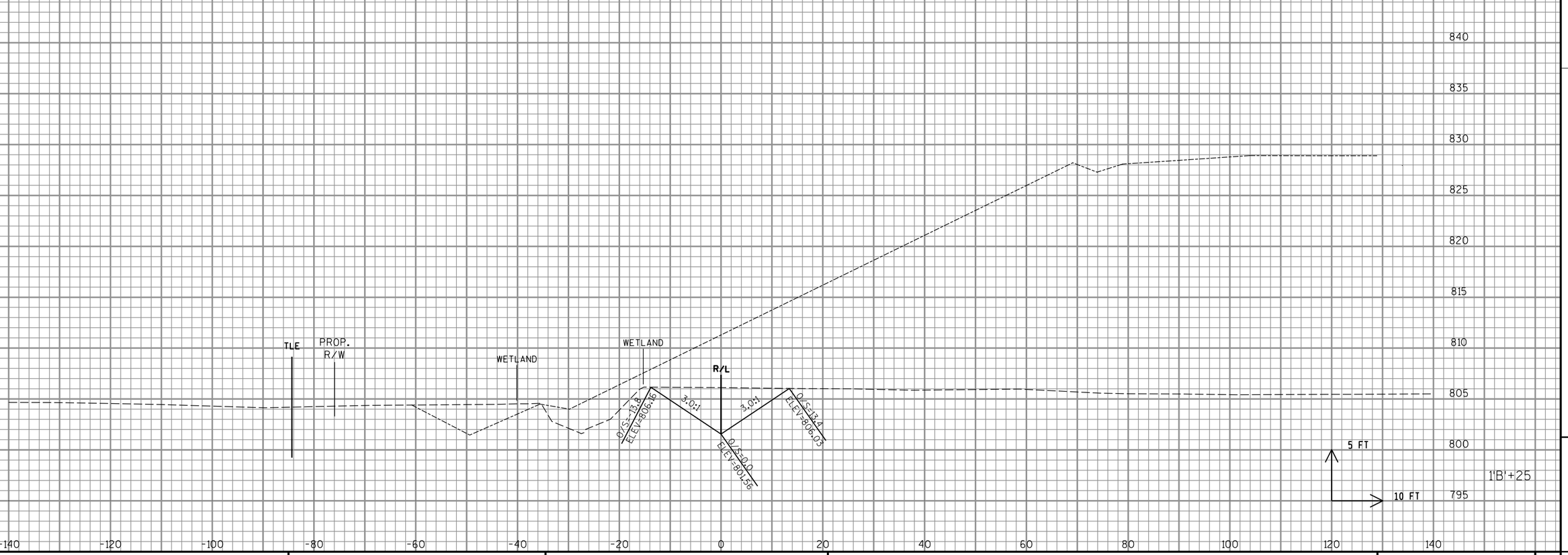
PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: TEMPORARY STREAM BYPASS	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\0902014_xs.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

LEGEND

PROPOSED FINAL SURFACE (SUBGRADE)

PROPOSED TEMPORARY BYPASS



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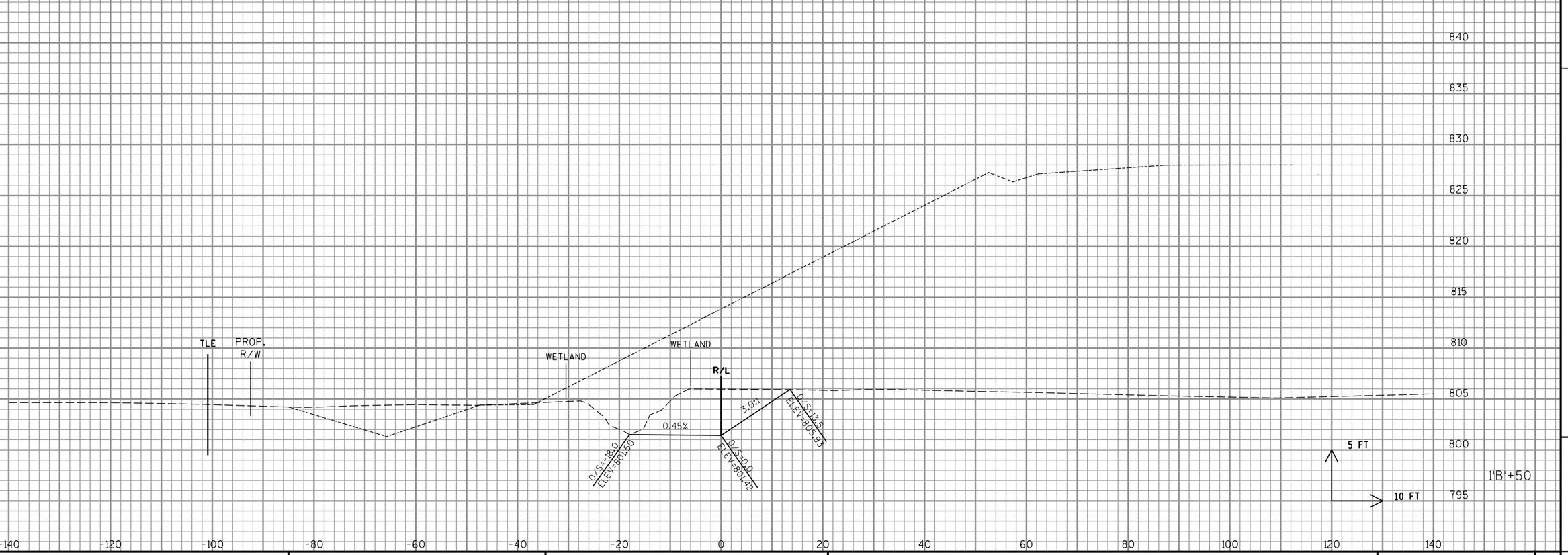
PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: TEMPORARY STREAM BYPASS	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\0902014_xs.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

LEGEND

PROPOSED FINAL SURFACE (SUBGRADE)

PROPOSED TEMPORARY BYPASS



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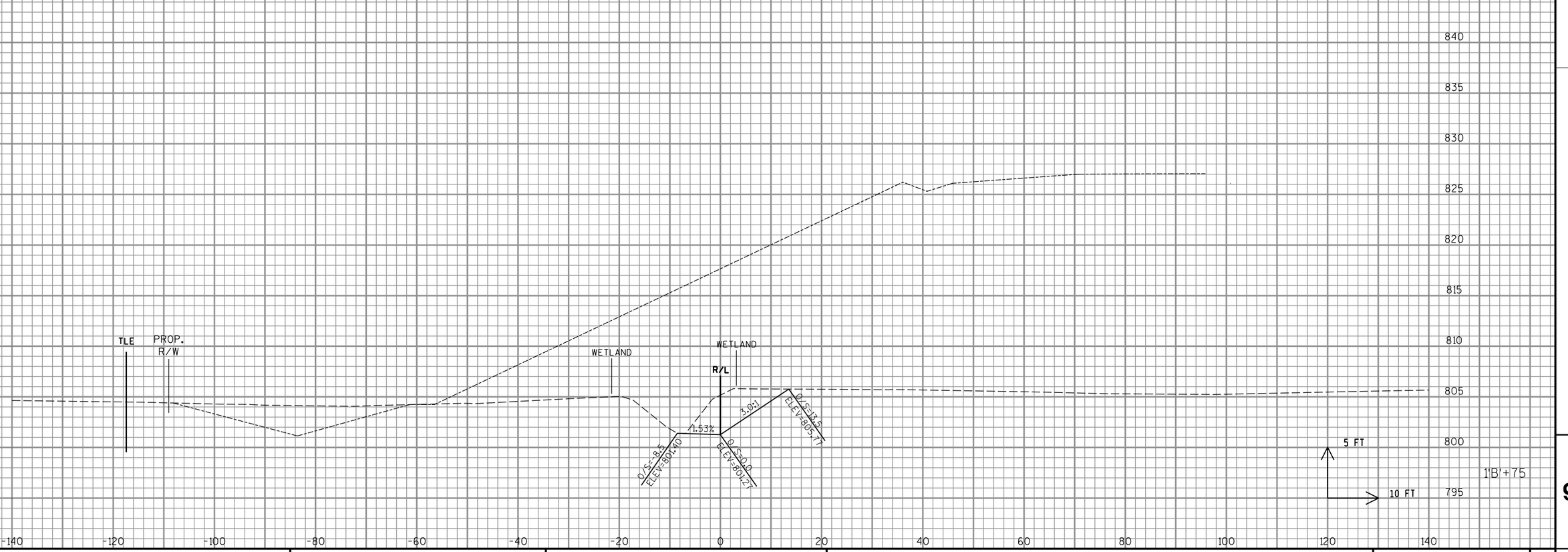
PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: TEMPORARY STREAM BYPASS	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\0902014_xs.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

LEGEND

PROPOSED FINAL SURFACE (SUBGRADE)

PROPOSED TEMPORARY BYPASS



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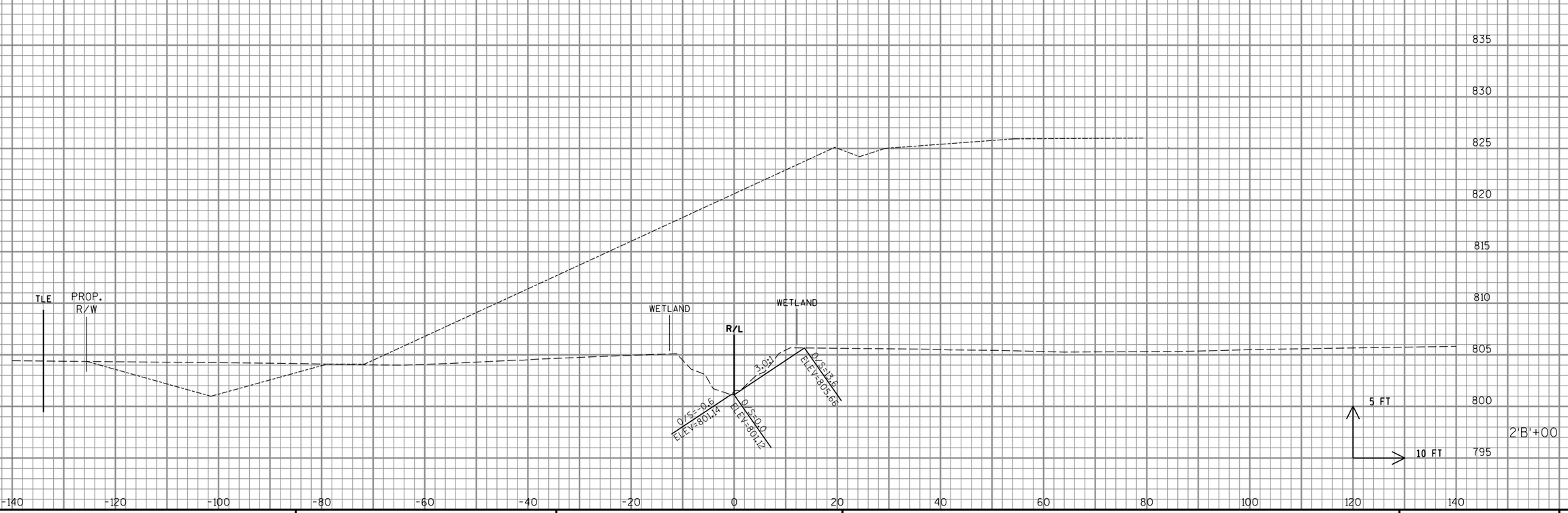
PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: TEMPORARY STREAM BYPASS	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\0902014_xs.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

LEGEND

PROPOSED FINAL SURFACE (SUBGRADE)

PROPOSED TEMPORARY BYPASS



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PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: TEMPORARY STREAM BYPASS	SHEET	E

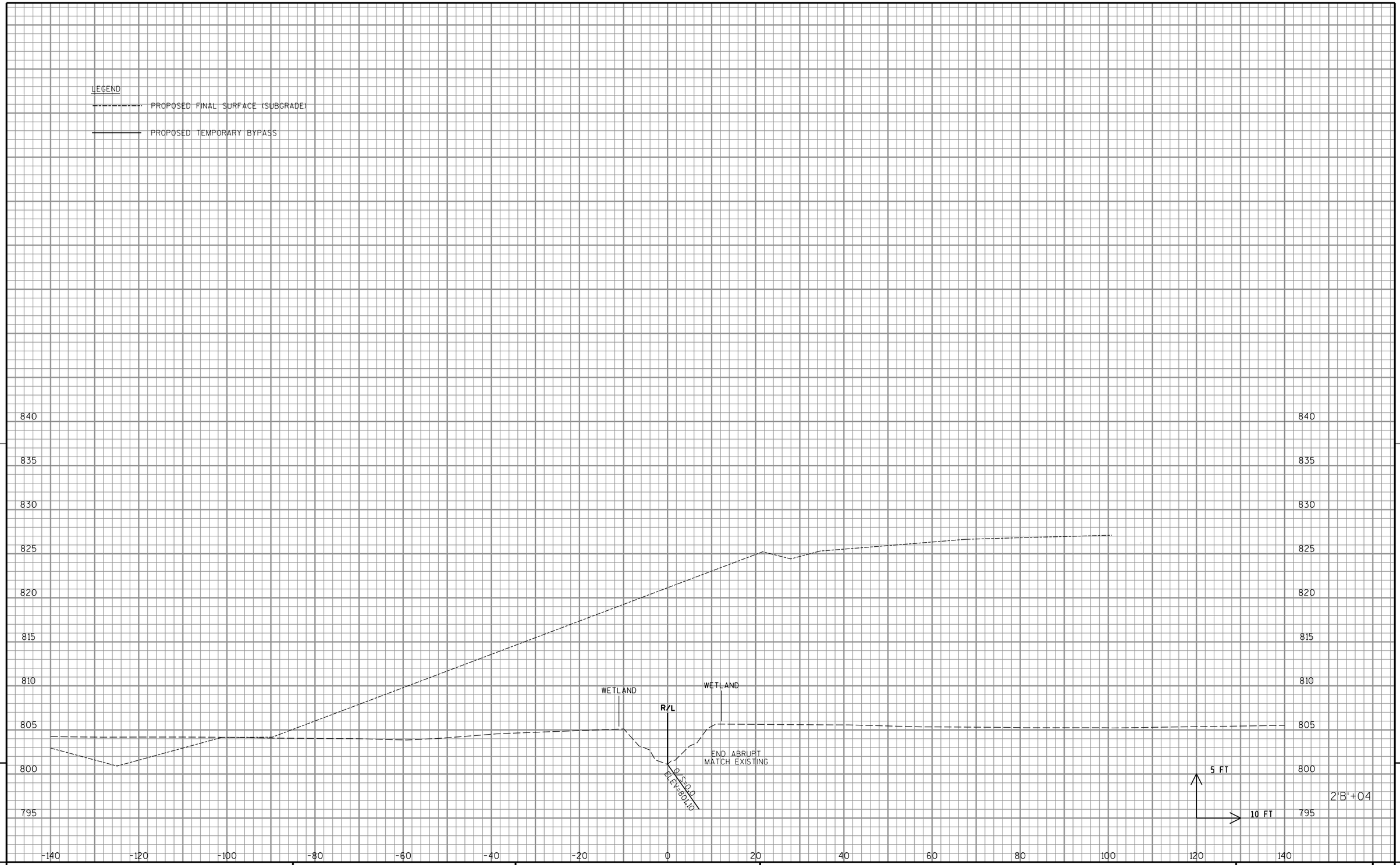
FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\0902014_xs.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

LEGEND

PROPOSED FINAL SURFACE (SUBGRADE)

PROPOSED TEMPORARY BYPASS



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PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: TEMPORARY STREAM BYPASS	SHEET	E

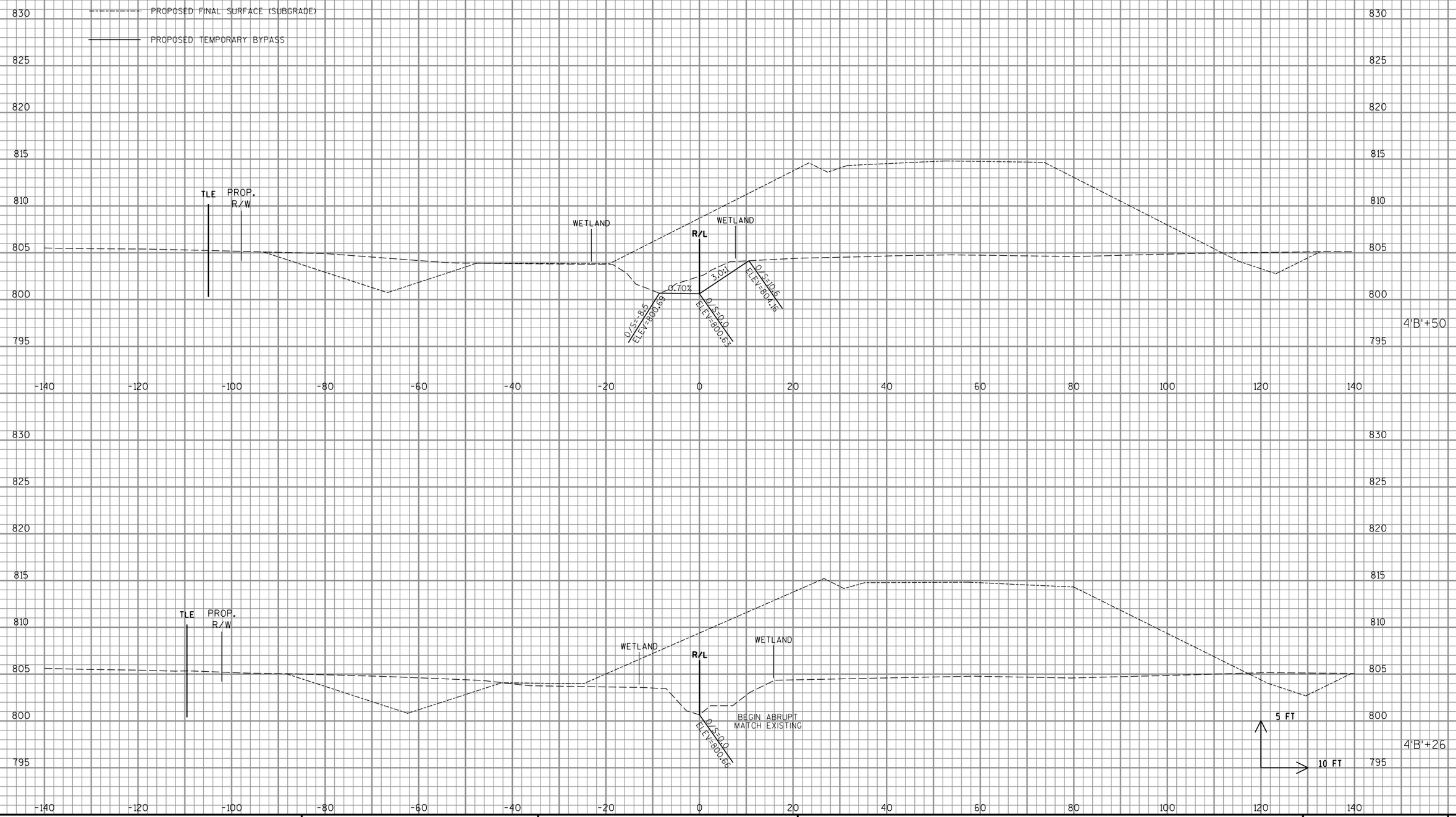
FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\0902014_xs.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

LEGEND

PROPOSED FINAL SURFACE (SUBGRADE)

PROPOSED TEMPORARY BYPASS



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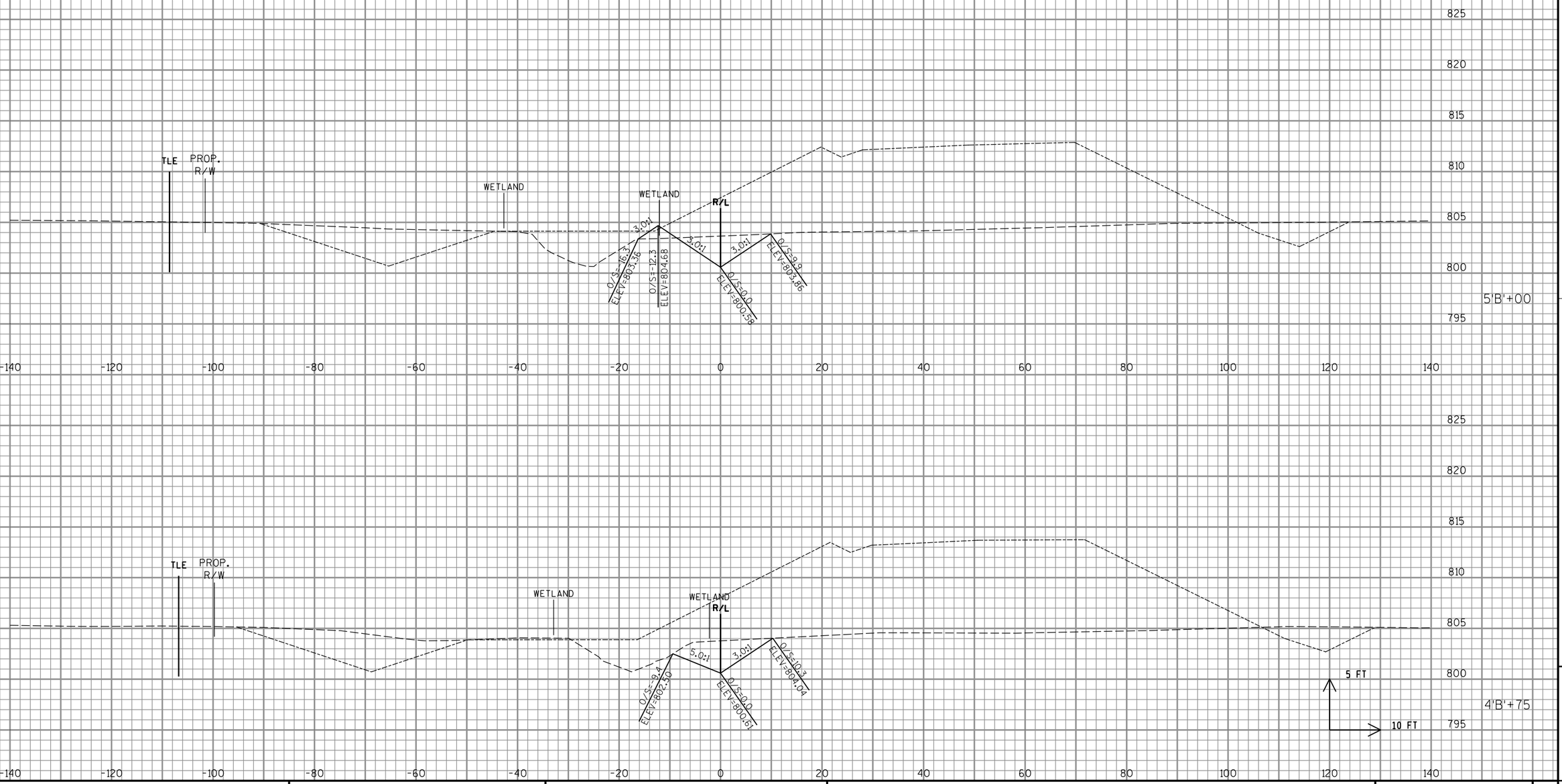
PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: TEMPORARY STREAM BYPASS	SHEET	E

LEGEND

PROPOSED FINAL SURFACE (SUBGRADE)

PROPOSED TEMPORARY BYPASS

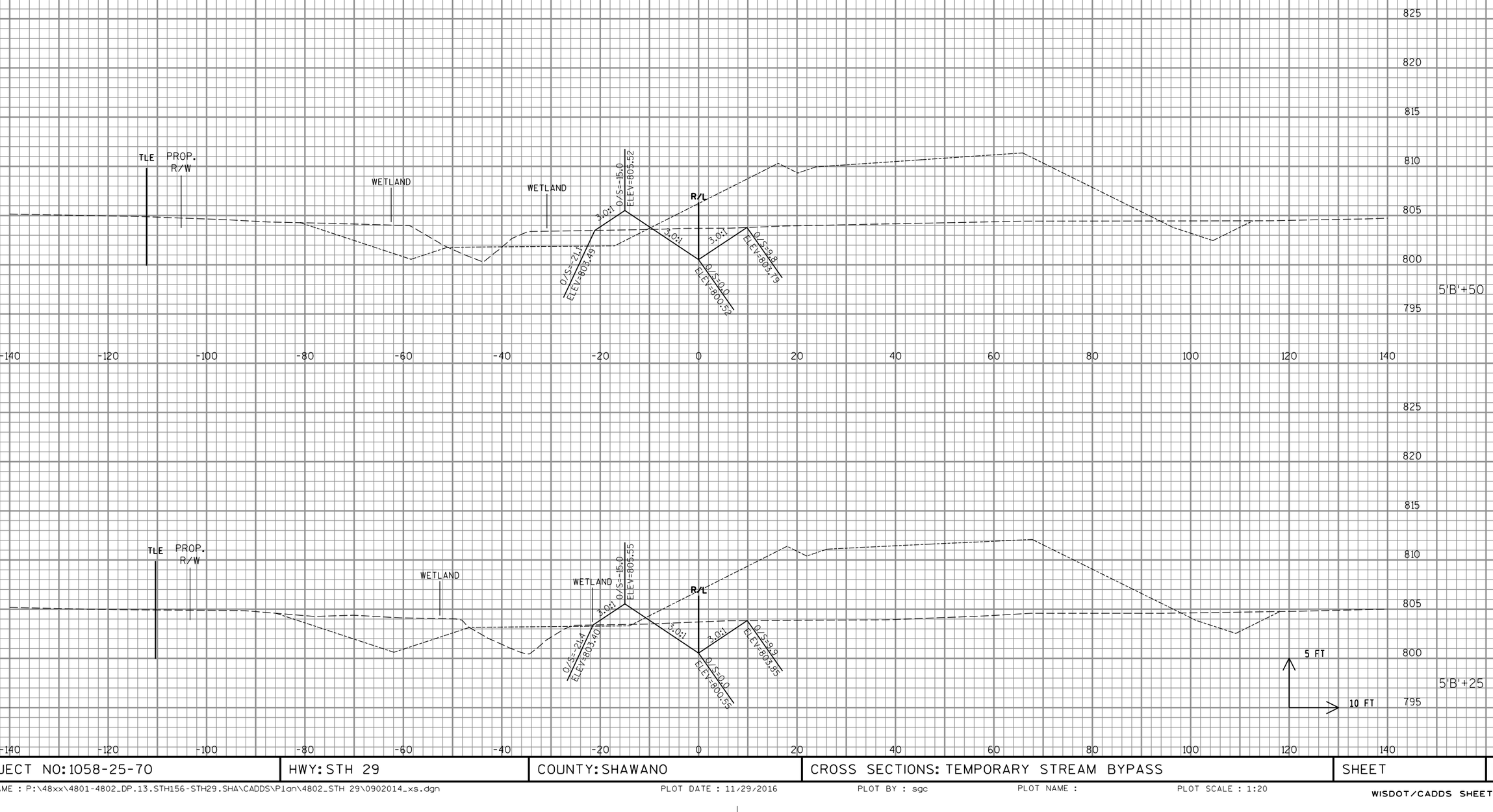


PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: TEMPORARY STREAM BYPASS	SHEET	E

LEGEND

PROPOSED FINAL SURFACE (SUBGRADE)

PROPOSED TEMPORARY BYPASS



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: TEMPORARY STREAM BYPASS	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\0902014_xs.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

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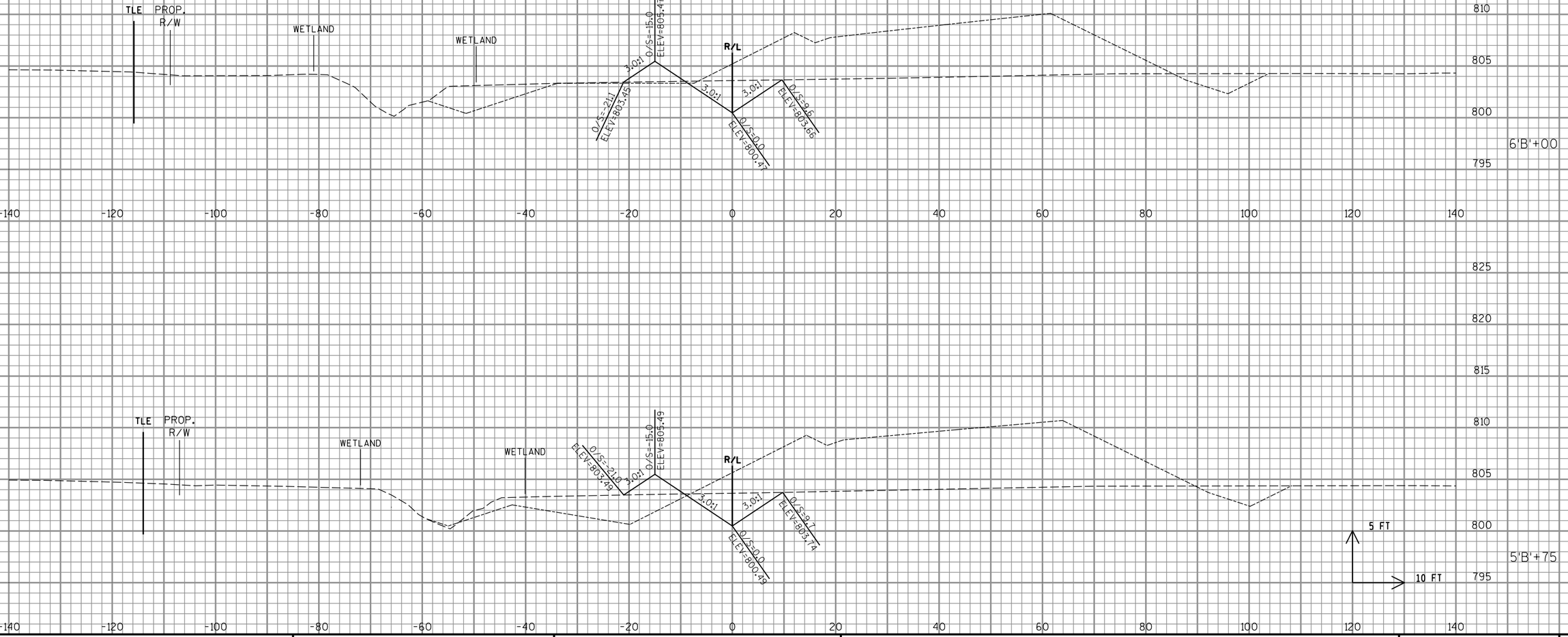
LEGEND

PROPOSED FINAL SURFACE (SUBGRADE)

PROPOSED TEMPORARY BYPASS



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: TEMPORARY STREAM BYPASS	SHEET	E

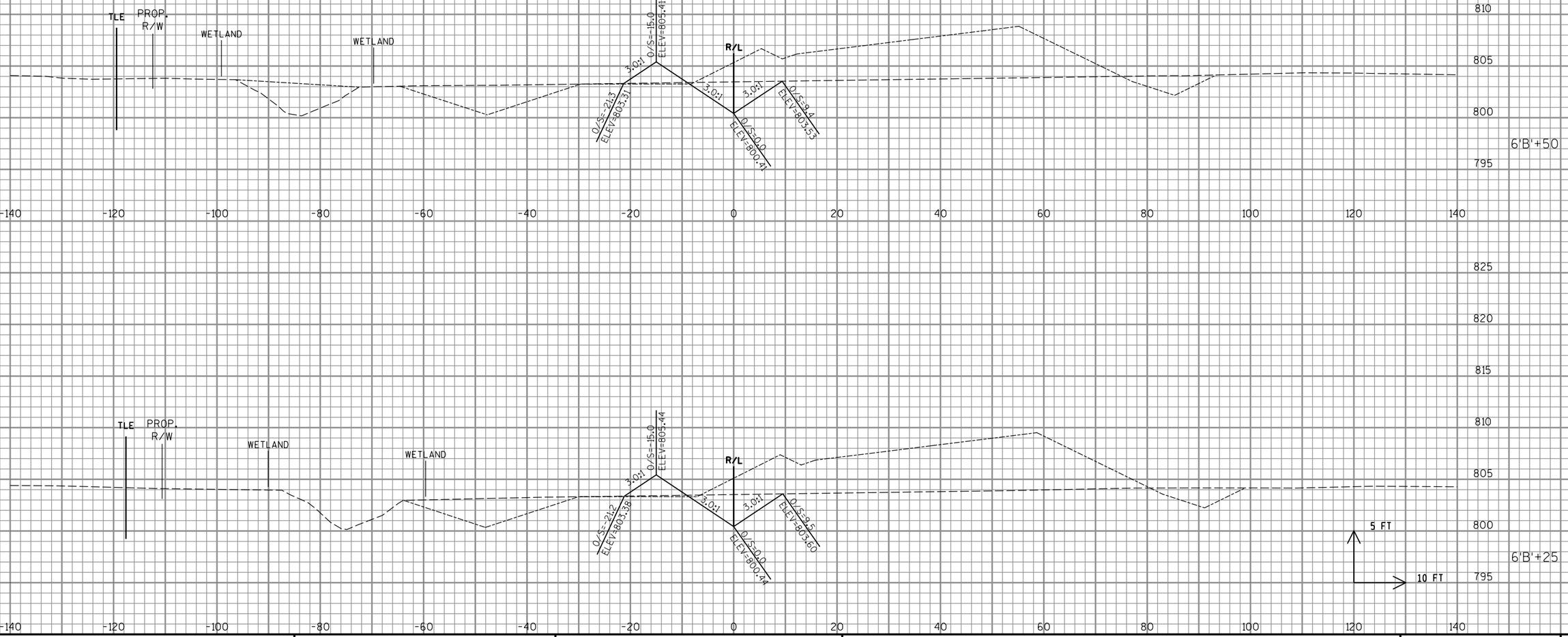
FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\0902014_xs.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

LEGEND

PROPOSED FINAL SURFACE (SUBGRADE)

PROPOSED TEMPORARY BYPASS



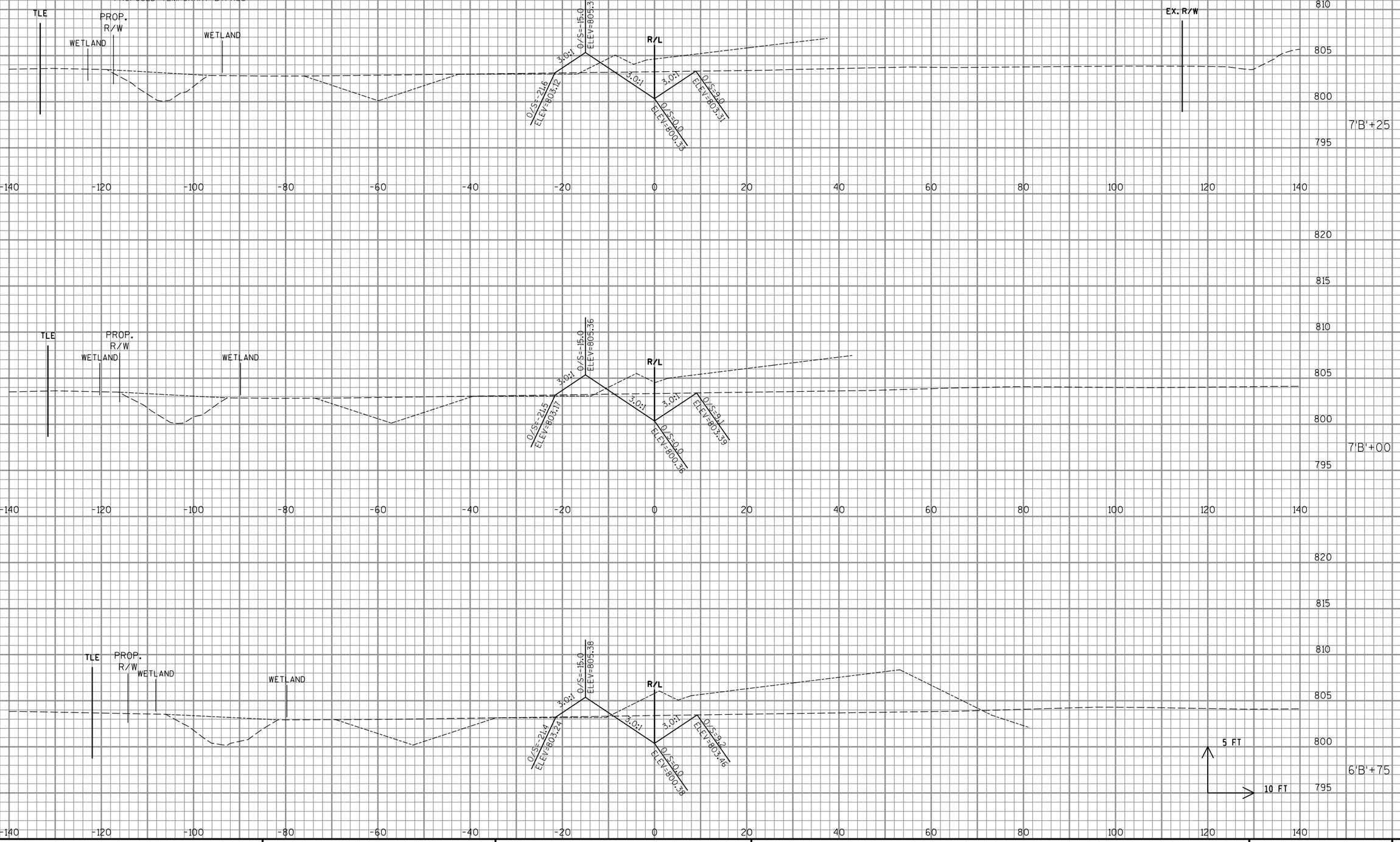
PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: TEMPORARY STREAM BYPASS	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\0902014_xs.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

LEGEND

PROPOSED FINAL SURFACE (SUBGRADE)

PROPOSED TEMPORARY BYPASS



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: TEMPORARY STREAM BYPASS	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\0902014_xs.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

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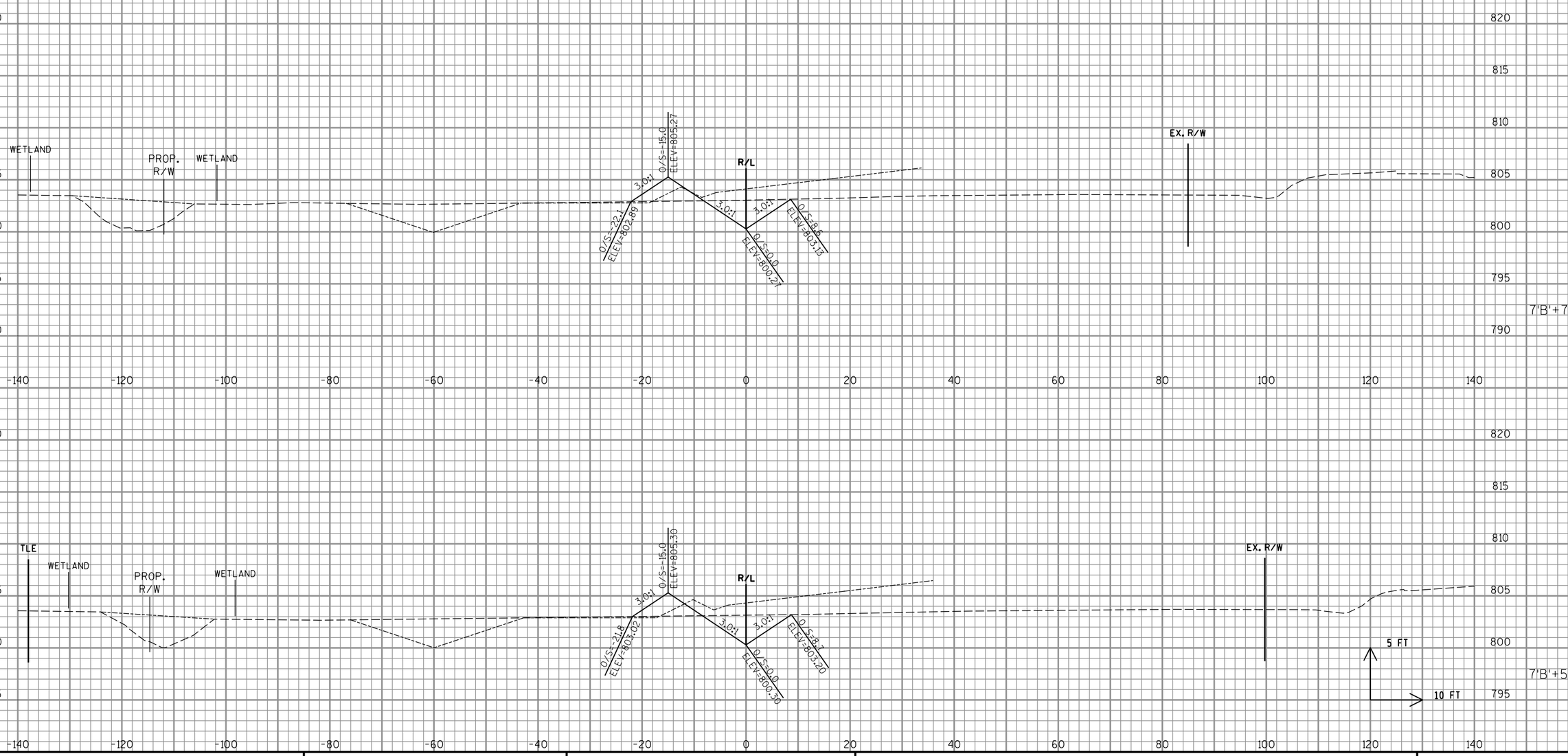
LEGEND

PROPOSED FINAL SURFACE (SUBGRADE)

PROPOSED TEMPORARY BYPASS



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: TEMPORARY STREAM BYPASS	SHEET	E

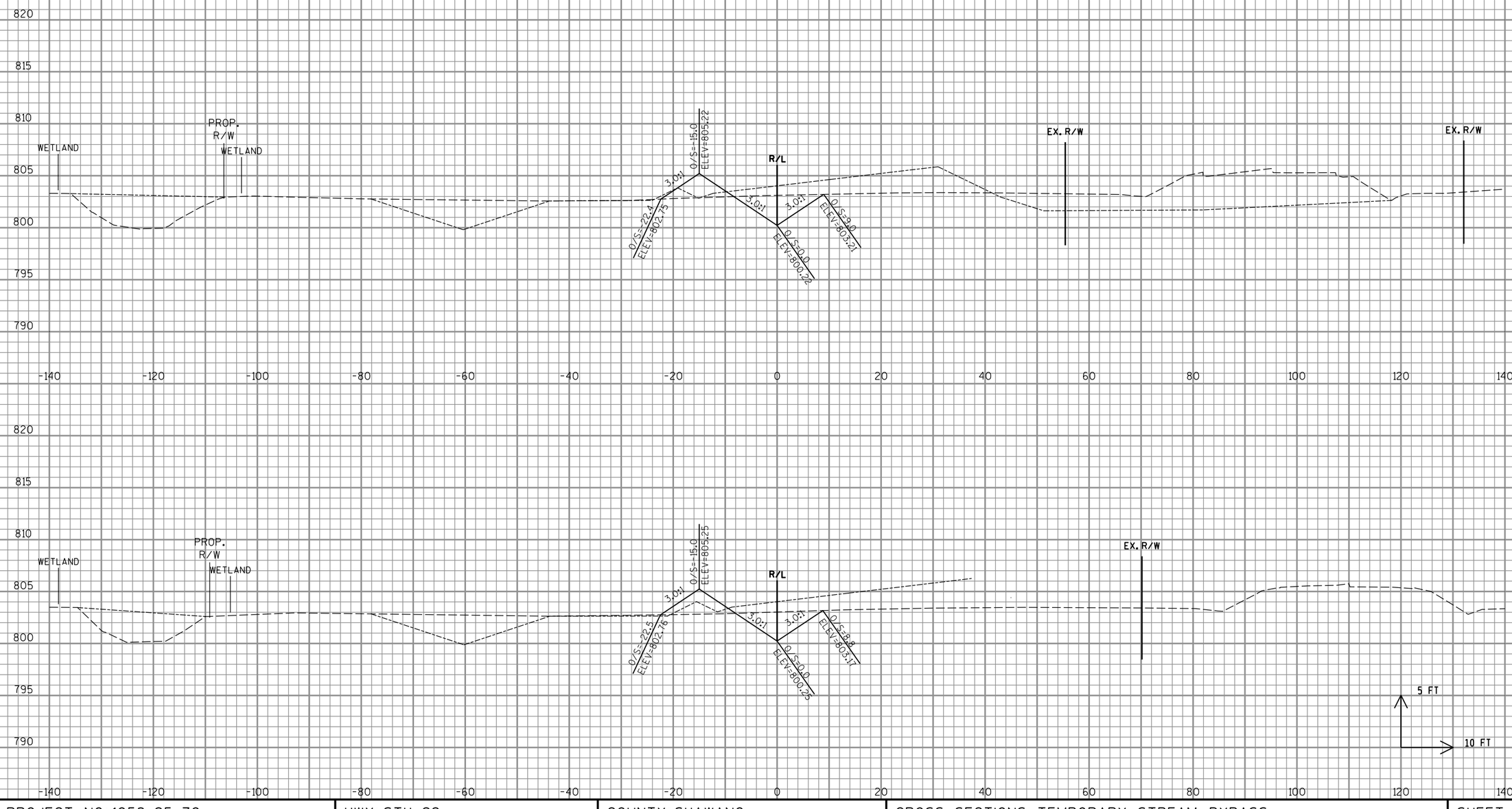
FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\0902014_xs.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

LEGEND

PROPOSED FINAL SURFACE (SUBGRADE)

PROPOSED TEMPORARY BYPASS



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: TEMPORARY STREAM BYPASS	SHEET	E

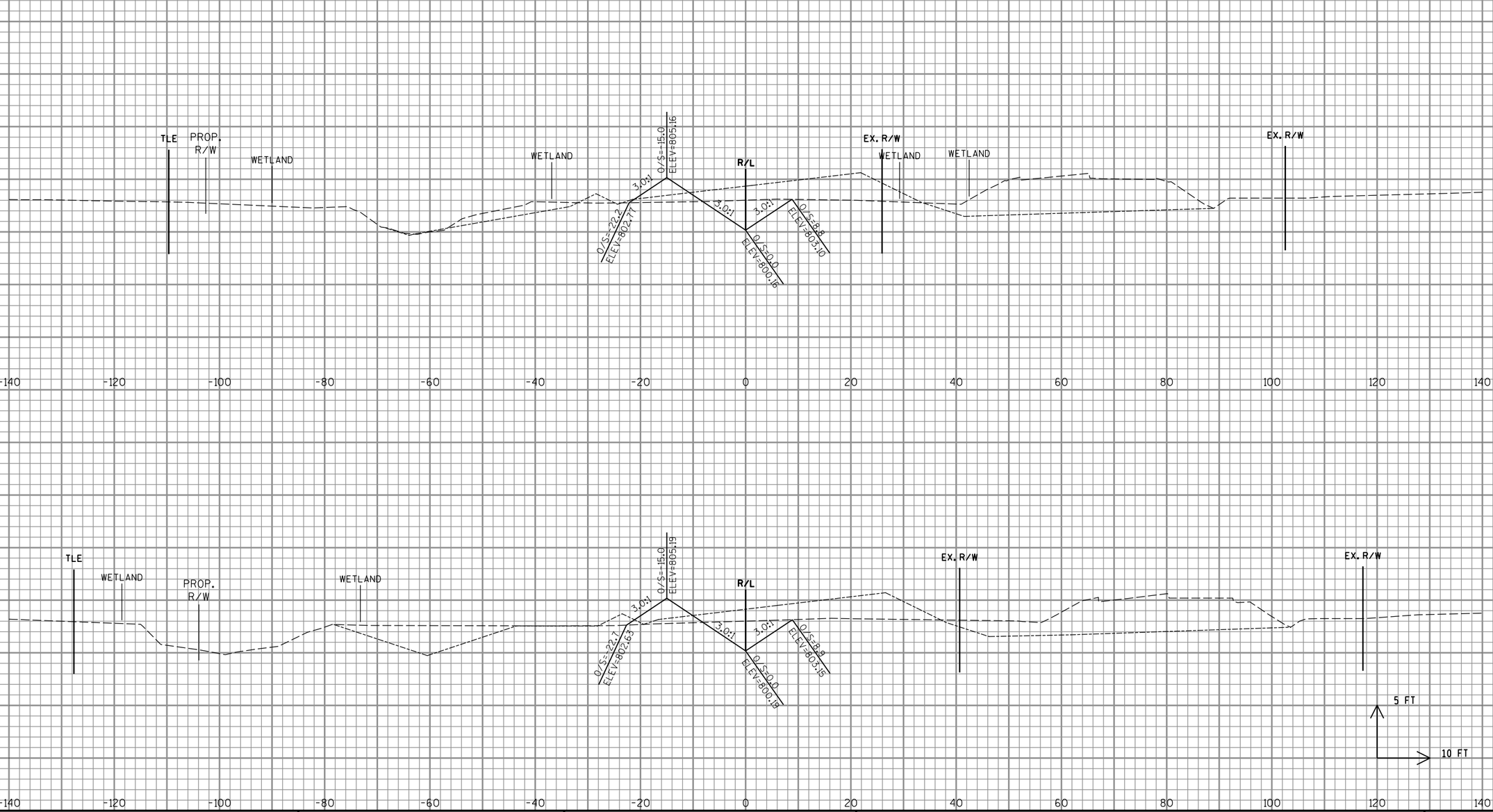
FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\0902014_xs.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

LEGEND

PROPOSED FINAL SURFACE (SUBGRADE)

PROPOSED TEMPORARY BYPASS



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: TEMPORARY STREAM BYPASS	SHEET	E

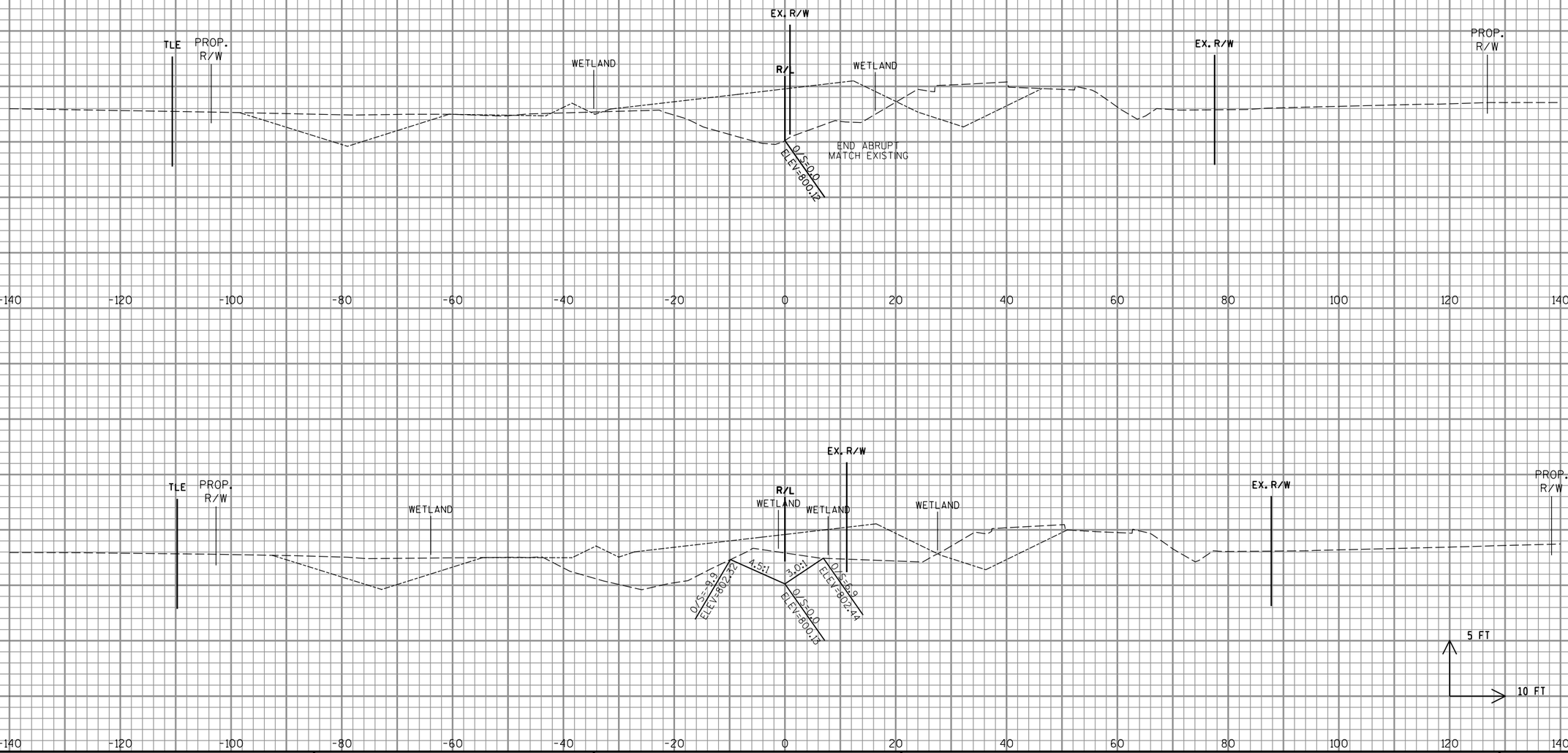
FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\0902014_xs.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

LEGEND

PROPOSED FINAL SURFACE (SUBGRADE)

PROPOSED TEMPORARY BYPASS



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PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: TEMPORARY STREAM BYPASS	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\0902014_xs.dgn

PLOT DATE : 11/29/2016

PLOT BY : sgc

PLOT NAME :

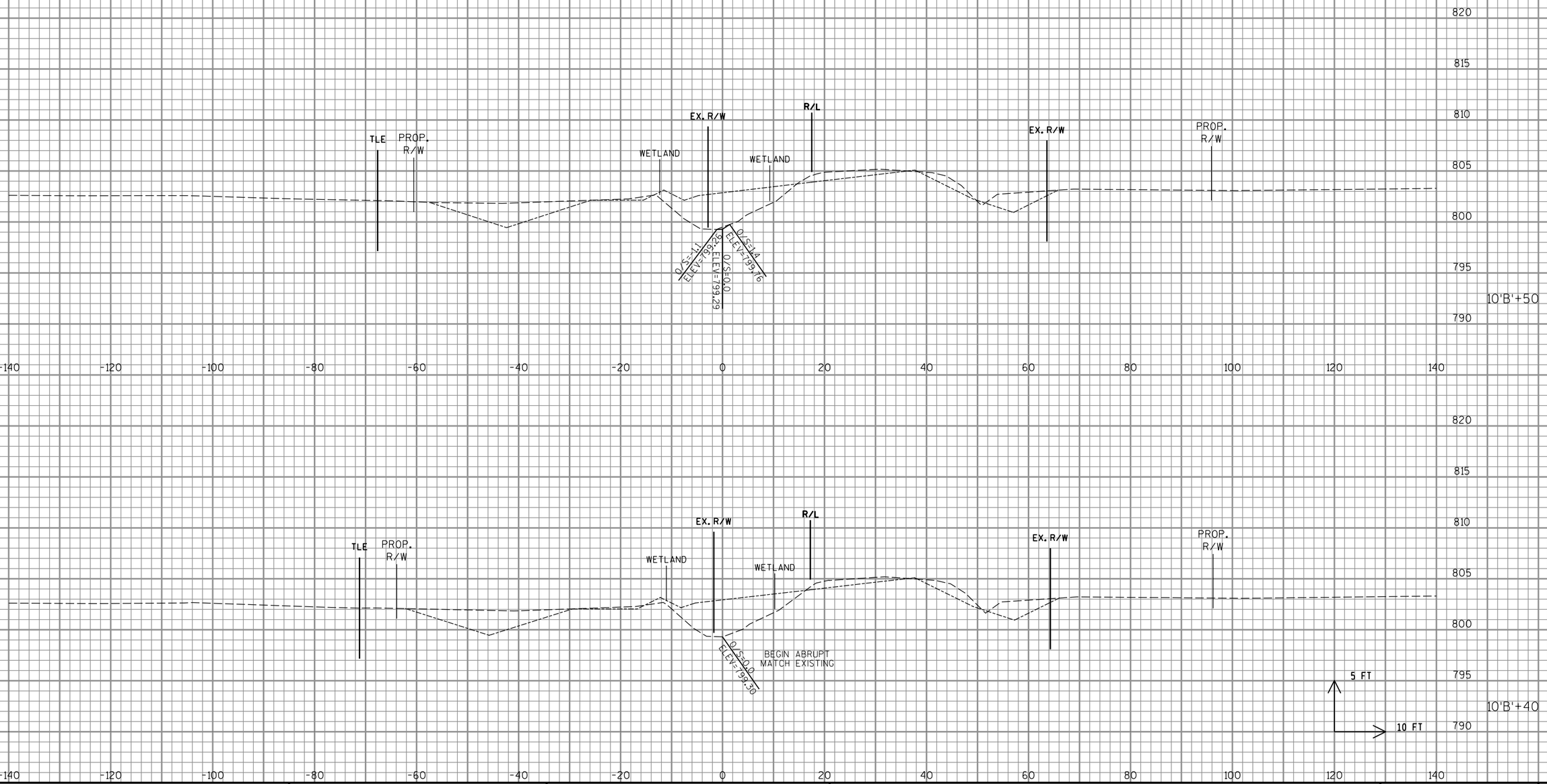
PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

LEGEND

PROPOSED FINAL SURFACE (SUBGRADE)

PROPOSED TEMPORARY BYPASS



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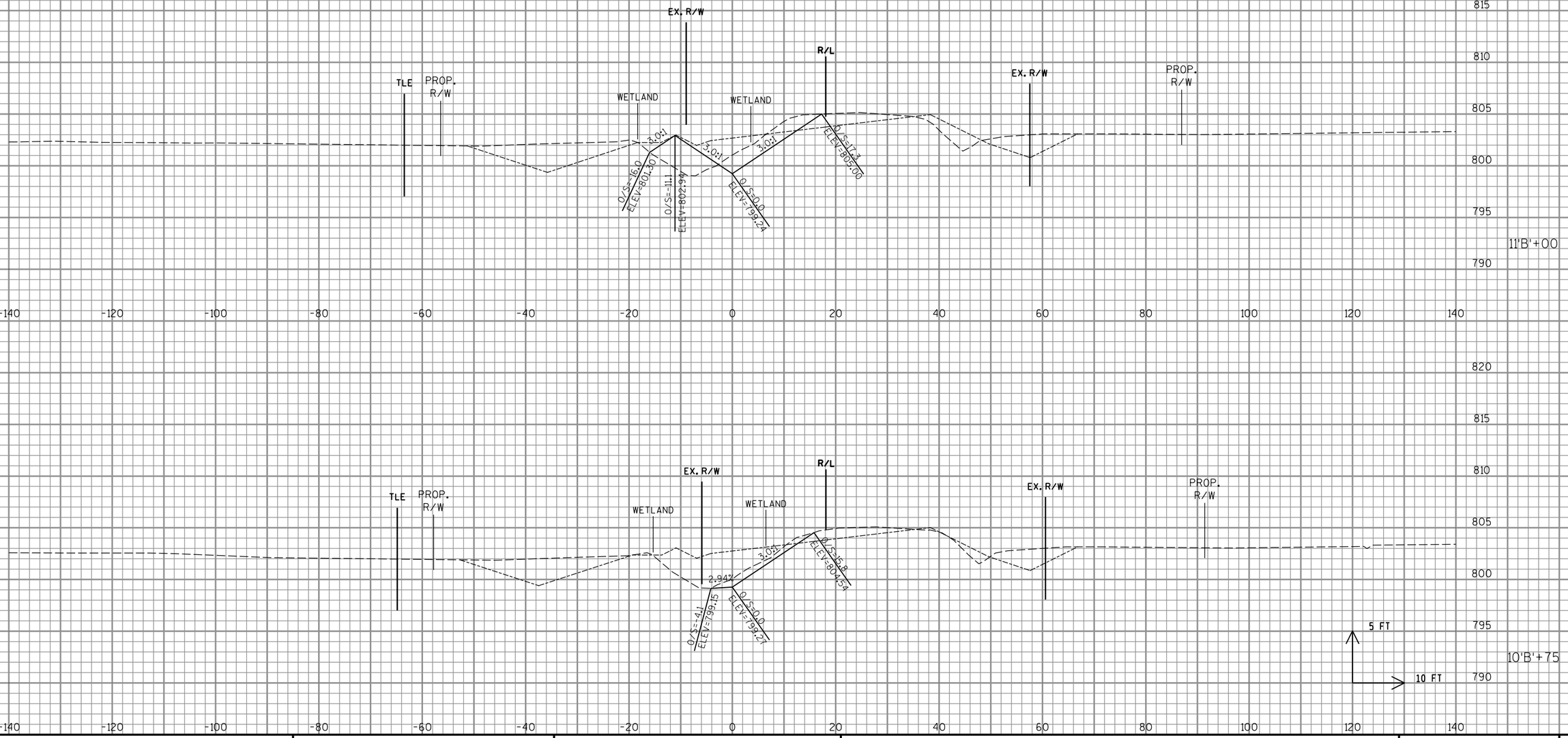
PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: TEMPORARY STREAM BYPASS	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\0902014_xs.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

LEGEND

PROPOSED FINAL SURFACE (SUBGRADE)

PROPOSED TEMPORARY BYPASS



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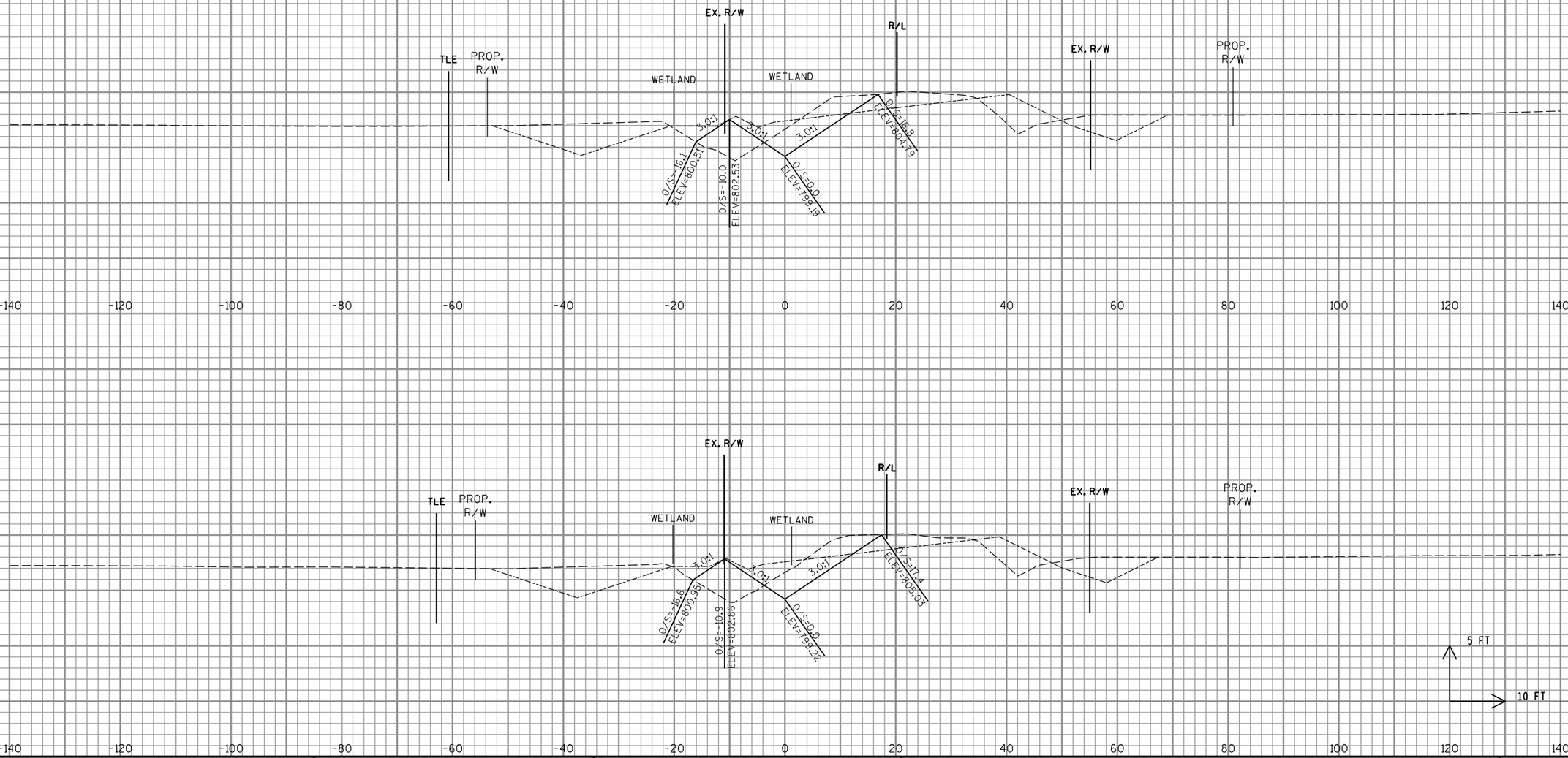
PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: TEMPORARY STREAM BYPASS	SHEET	E

LEGEND

PROPOSED FINAL SURFACE (SUBGRADE)

PROPOSED TEMPORARY BYPASS



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: TEMPORARY STREAM BYPASS	SHEET	E

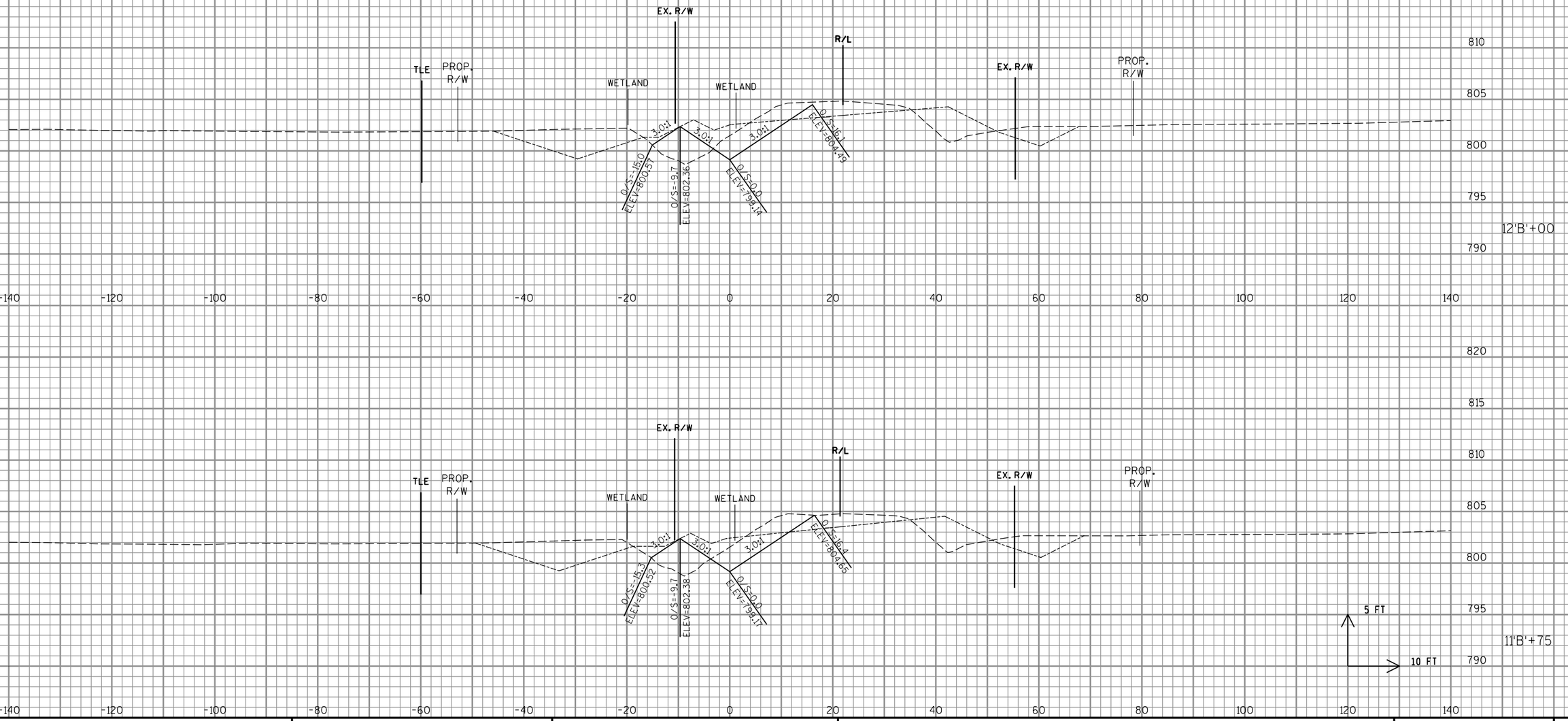
FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\0902014_xs.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

LEGEND

PROPOSED FINAL SURFACE (SUBGRADE)

PROPOSED TEMPORARY BYPASS



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: TEMPORARY STREAM BYPASS	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\0902014_xs.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

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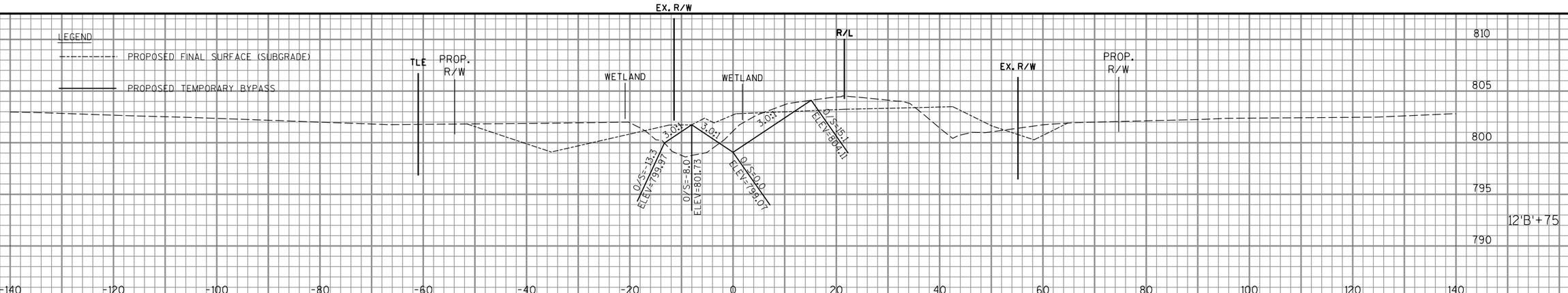
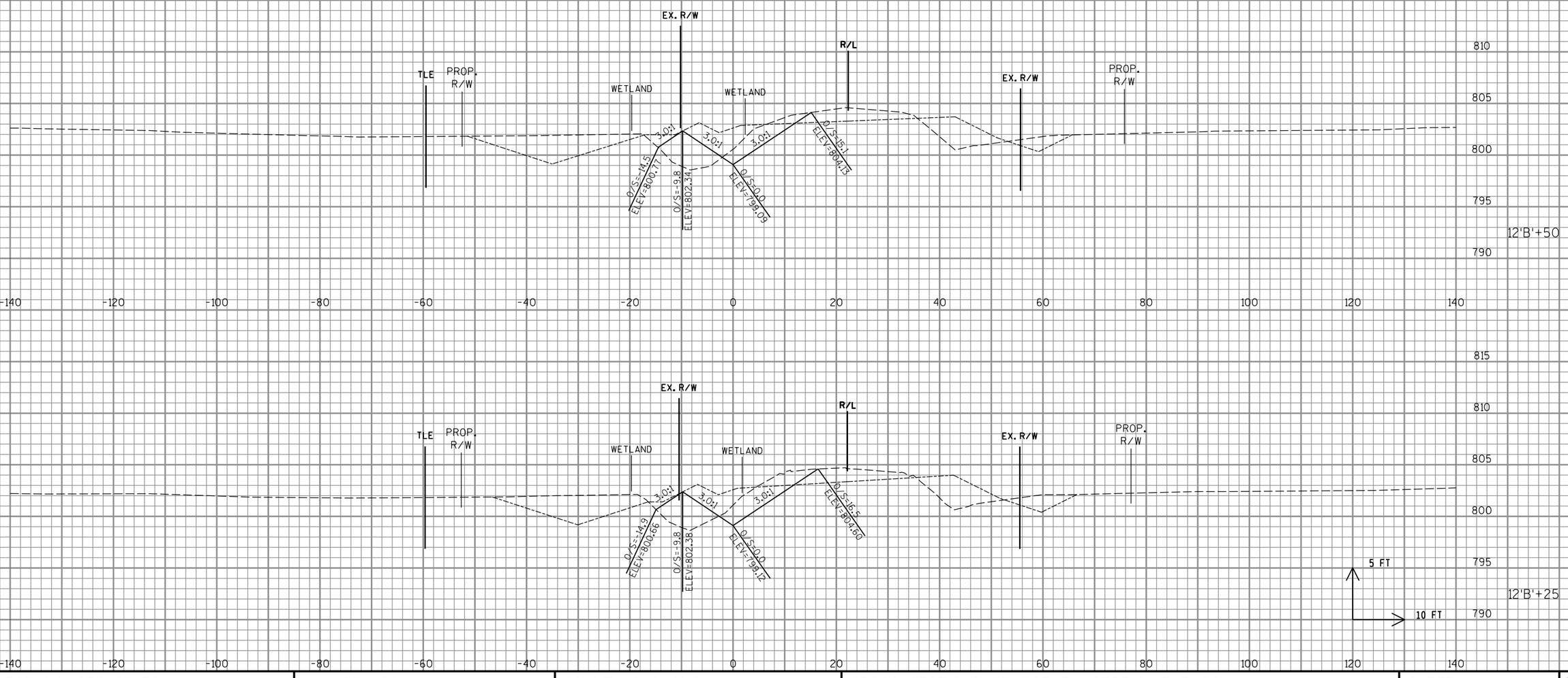
LEGEND

PROPOSED FINAL SURFACE (SUBGRADE)

PROPOSED TEMPORARY BYPASS





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PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: TEMPORARY STREAM BYPASS	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\0902014_xs.dgn

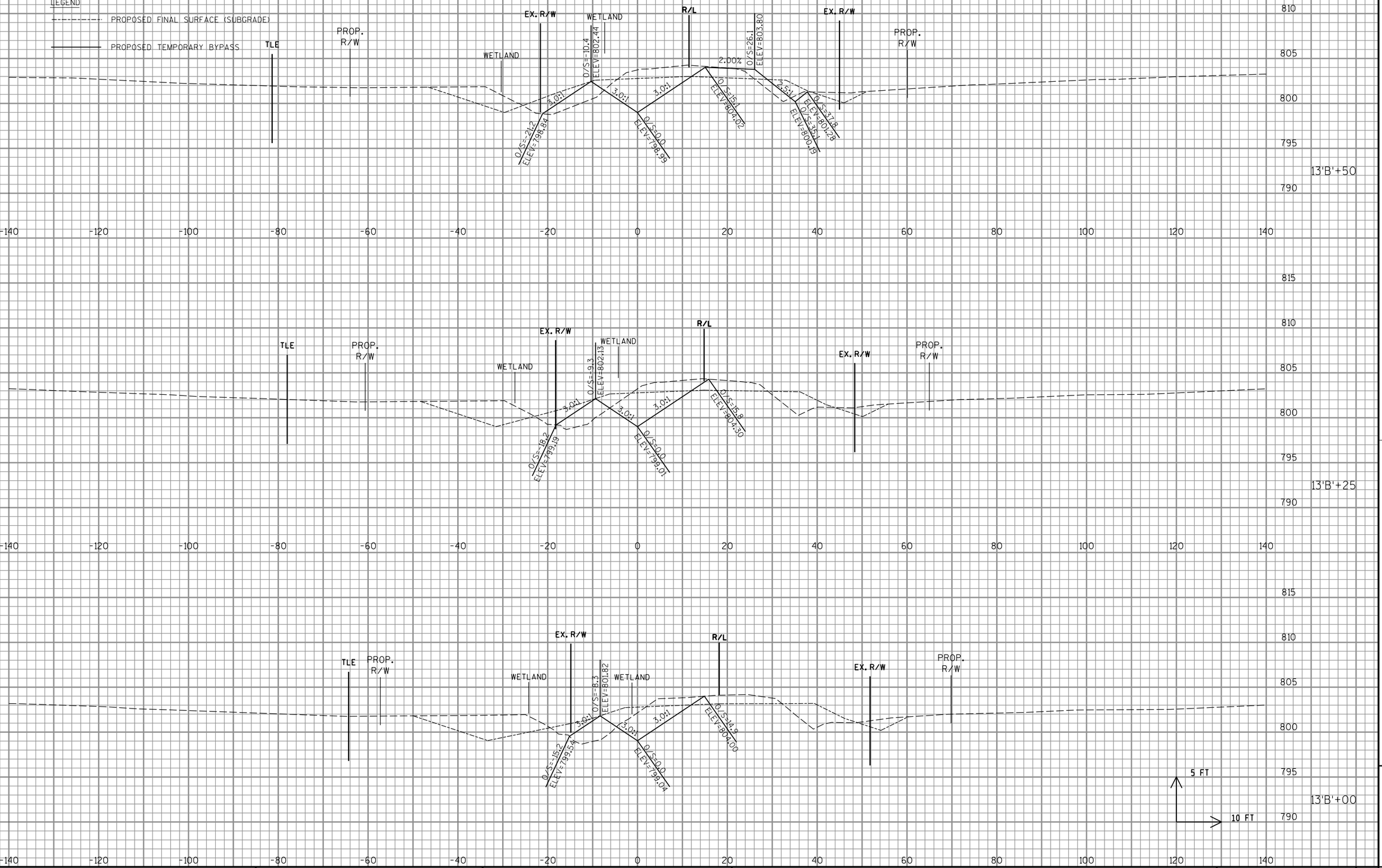
PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

LEGEND

PROPOSED FINAL SURFACE (SUBGRADE)

PROPOSED TEMPORARY BYPASS



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: TEMPORARY STREAM BYPASS	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\0902014_xs.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

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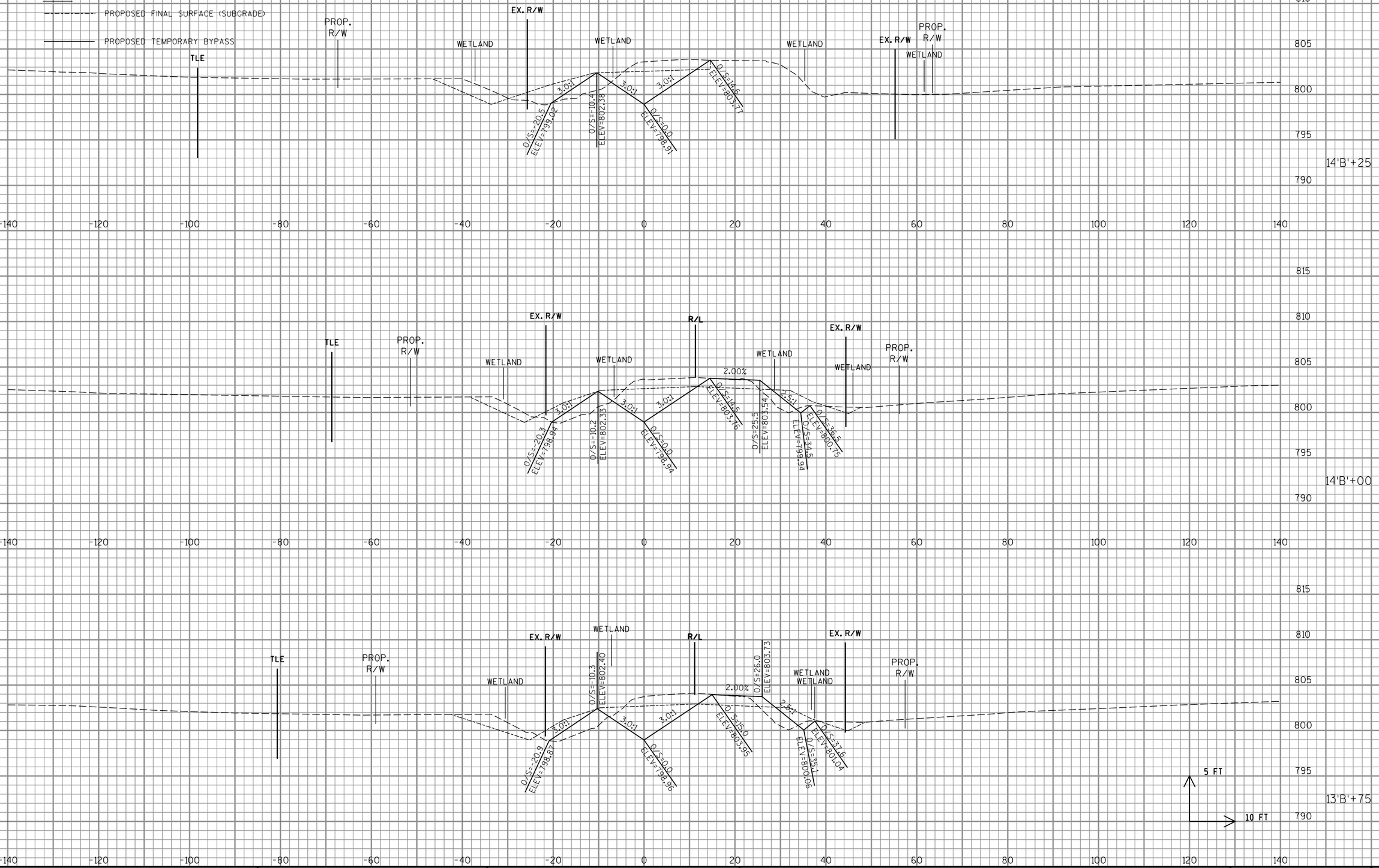
LEGEND

PROPOSED FINAL SURFACE (SUBGRADE)

PROPOSED TEMPORARY BYPASS



PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: TEMPORARY STREAM BYPASS	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\0902014_xs.dgn PLOT DATE : 11/29/2016 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

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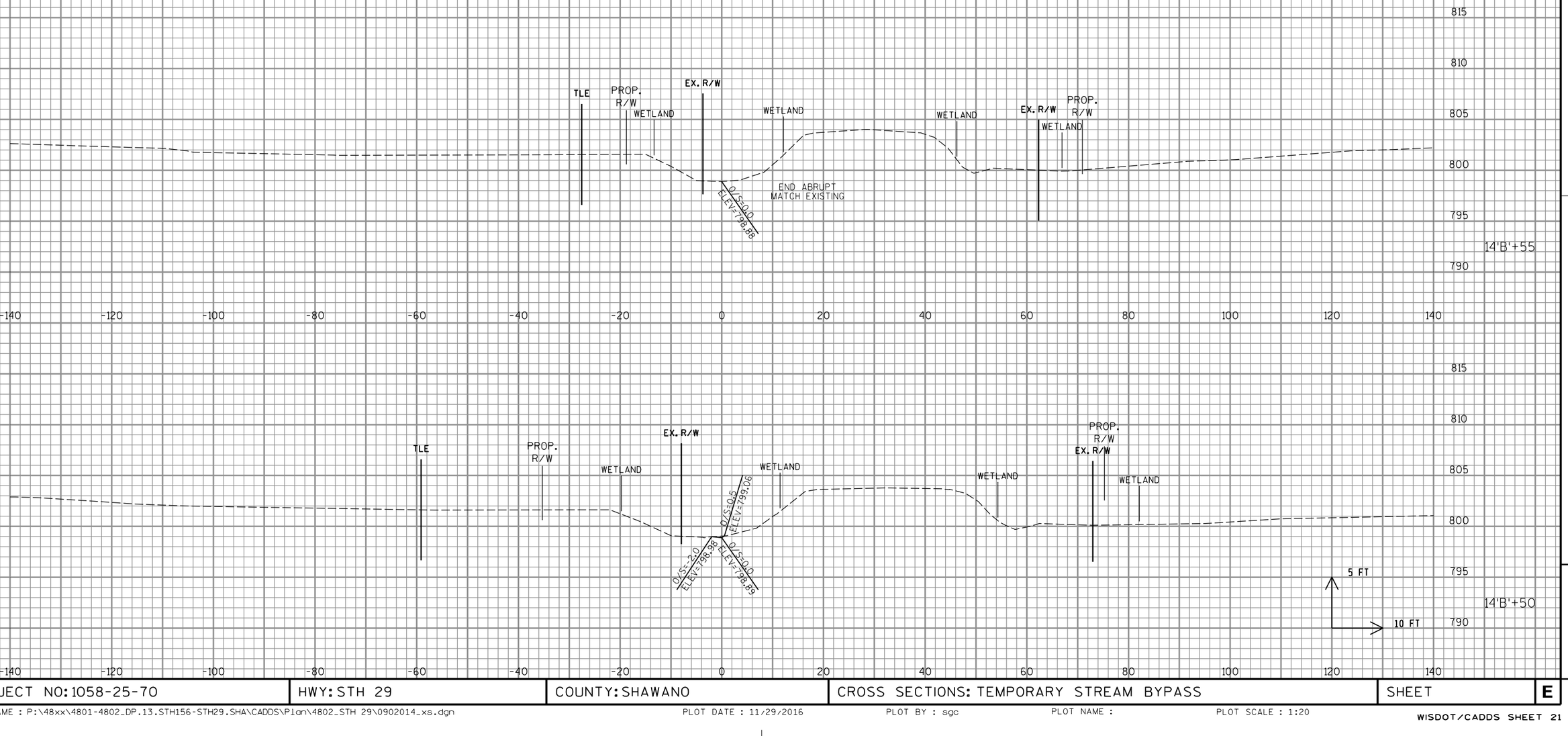
LEGEND

PROPOSED FINAL SURFACE (SUBGRADE)

PROPOSED TEMPORARY BYPASS



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PROJECT NO: 1058-25-70	HWY: STH 29	COUNTY: SHAWANO	CROSS SECTIONS: TEMPORARY STREAM BYPASS	SHEET	E

FILE NAME : P:\48xx\4801-4802_DP.13.STH156-STH29.SHA\CADDS\Plan\4802_STH 29\0902014_xs.dgn

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PLOT NAME :

PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21