PROJECT ID: **1146-75-73**

WITH:

COUNTY: **OUTAGAMIE**

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS =

N

DESIGN DESIGNATION

A.A.D.T.	2024	=	13,200
A.A.D.T.	2044	=	15,100
D.H.V.		=	1,700
D.D.		=	62 - 38
T.		=	5.2%
DESIGN SPEED		=	60 MPH
ESALS		=	2,300,000

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 (300'EB')
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE

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

UTILITIES

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

STH 76 - NEW LONDON

CTH T/ GIVENS ROAD - USH 45

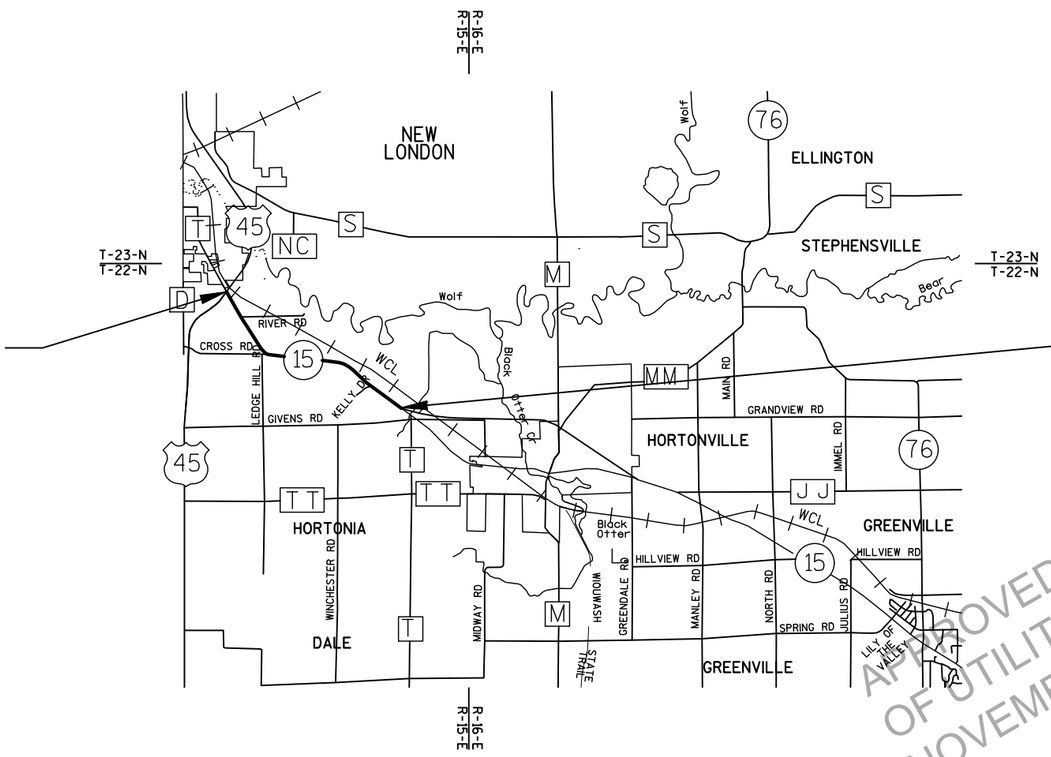
STH 15

OUTAGAMIE

STATE PROJECT NUMBER
1146-75-73

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1146-75-73		

TRANS 220
PROJECT PLAN
FOR
DESIGN OF UTILITY FACILITY
ALTERATIONS OR RELOCATIONS
DATE: NOVEMBER 2019



LAYOUT

SCALE 0 1 MI

TOTAL NET LENGTH OF CENTERLINE = 2.945 MILES

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), NAD 83 (2011), OUTAGAMIE COUNTY.

ALL ELEVATIONS ON THIS PROJECT ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF NAVD 88 (2012), OUTAGAMIE COUNTY.

APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	WISDOT NE REGION
Designer	ALAN FARRELL
Project Manager	BILL BERTRAND
Regional Examiner	---
Regional Supervisor	TAMMY RABE

APPROVED FOR THE DEPARTMENT

DATE: _____ _____ (Signature)

PRE_1

E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\010101_TI.DWG PLOT DATE : 11/7/2019 7:50 AM PLOT BY : MARTIN, THOMAS S PLOT NAME :

UTILITIES

WE ENERGIES-ELECTRIC
CHRISTOPHER SCHULZ
800 SOUTH LYNNDALE DRIVE
APPLETON, WI 54914
PHONE: 414-944-5553
MOBILE: 414-588-0455
CHRIS.SCHULZ@WE-ENERGIES.COM

WE ENERGIES-GAS/PETROLEUM
CODY BECKMAN
800 SOUTH LYNNDALE DRIVE
APPLETON, WI 54914
PHONE: 920-380-3422
MOBILE: 920-428-1038
CODY.BECKMAN@WE-ENERGIES.COM

CHARTER COMMUNICATIONS
RUDI RUDIGER
5024 HEFFRON STREET
STEVENS POINT, WI 54481
PHONE: 715-204-5339
RUDI.RUDIGER@CHARTER.COM

NEW LONDON UTILITIES-ELECTRIC
MIKE FREDERICK
400 EAST NORTH WATER STREET
NEW LONDON, WI 54961
PHONE: 920-359-0784
MFREDERICK@WPPIENERGY.ORG

VILLAGE OF HORTONVILLE PUBLIC WORKS-SEWER & WATER
CARL MCCRARY
531 NORTH NASH STREET
HORTONVILLE, WI 54944
PHONE: 920-779-6011
DPW@VOHORTONVILLE.COM

AT&T WISCONSIN - COMMUNICATIONS
JOE KASSAB
205 SOUTH JEFFERSON STREET
GREEN BAY, WI 54301
PHONE: 920-433-4200
MOBILE: 920-202-4002
JK572K@ATT.COM

SURVEYS CONTACT PERSON

CORMAC MCINNIS
WISDOT NORTHEAST REGION
944 VANDERPERREN WAY
GREEN BAY, WI 54304
PHONE: 920-492-5638 (O), 920-609-5638 (C)
EMAIL: CORMAC.MCINNIS@DOT.WI.GOV

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

DNR AREA LIAISON

MATTHEW SCHAEVE
DEPARTMENT OF NATURAL RESOURCES
2984 SHAWANO AVE
GREEN BAY, WI 54303
PHONE: 920-662-5472
EMAIL: MATTHEW.SCHAEVE@WISCONSIN.GOV

ORDER OF SECTION 2 SHEETS

-PROJECT OVERVIEW
-TYPICAL SECTIONS
-CONSTRUCTION DETAILS
-TEMPORARY BYPASS DETAILS
-RAILROAD CROSSING
-INTERSECTION DETAILS
-PLAN DETAILS
-PAVING GRADES
-REMOVALS
-DRIVEWAY DETAILS
-EROSION CONTROL
-STORM SEWER PLANS
-PERMANENT SIGNING
-TRAFFIC SIGNALS PLAN
-TRAFFIC CONTROL
-PAVEMENT MARKING
-TRAFFIC CONTROL
-DETOUR PLAN
-ALIGNMENT

STANDARD ABBREVIATIONS

ADT	AVERAGE DAILY TRAFFIC
AGG	AGGREGATE
AEW	APRON ENDWALL
BAD	BASE AGGREGATE DENSE
BM	BENCH MARK
C&G	CURB AND GUTTER
C-C	CENTER TO CENTER
CPCM	CULVERT PIPE CORRUGATED METAL
CPRC	CULVERT PIPE REINFORCED CONCRETE
CPRCHE	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
CSD	CONCRETE SURFACE DRAIN
CTR	CENTER
CWT	HUNDRED WEIGHT
CY	CUBIC YARD
D	DEGREE OF CURVE
Δ	DELTA
DD	DIRECTIONAL DISTRIBUTION
DHV	DESIGN HOUR VOLUME
DIA OR Ø	DIAMETER
EL OR ELEV	ELEVATION
FS	FULL SUPERELEVATION
FT	FOOT
HE	HIGHWAY EASEMENT
HMA	HOT MIX ASPHALT
INCID	INCIDENTAL
INL	INLET
L	LENGTH OF CURVE
LF	LINEAR FOOT
LONG	LONGITUDINAL
LT	LEFT
MH	MANHOLE
ML OR M/L	MATCH LINE
NC	NORMAL CROWN
NTS	NOT TO SCALE
PAVT	PAVEMENT
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PI	POINT OF INTERSECTION
PLE	PERMANENT LIMITED EASEMENT
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
R	RADIUS
R/L	REFERENCE LINE
RO	RUN OFF LENGTH
RT	RIGHT
RW OR R/W	RIGHT OF WAY
SDD	STANDARD DETAIL DRAWINGS
SS	STORM SEWER
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
SSPRCHE	STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
STA	STATION
SY	SQUARE YARD
SYM	SYMMETRICAL
T	TANGENT LENGTH
TEMP	TEMPORARY
TLE	TEMPORARY LIMITED EASEMENT
TYP	TYPICAL
V	VELOCITY OR DESIGN SPEED
VAR	VARIABLE OR VARIES
WM	WATER MAIN
YD	YARD

APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

GENERAL NOTES

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO NAVD 88 (2007)

COORDINATES SHOWN ON THE PLAN ARE REFERENCED TO NAD 83 (2007).

CURVE DATA IS BASED ON ARC DEFINITION.

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.

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND ALL UTILITIES IN THE VICINITY OF THE PROJECT TO LOCATE THEIR FACILITIES AT LEAST THREE WORKING DAYS PRIOR TO BEGINNING WORK.
ANY UTILITY WHICH IS NOT A MEMBER OF DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

THE LOCATION OF SAW CUTS WILL BE DETERMINED OR AS APPROVED BY THE ENGINEER.
SAW CUT JOINTS SHALL BE ACCOMPLISHED WITHOUT DAMAGE TO REMAINING PORTIONS.

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

EXCAVATION BELOW SUBGRADE (EBS) IS NOT USED TO BALANCE YARDAGE AND IS NOT SHOWN ON THE CROSS SECTIONS BUT IS MEASURED AND PAID FOR AS UNCLASSIFIED EXCAVATION. THE LOCATION OF EBS WILL BE DETERMINED BY THE ENGINEER.

ALL DISTURBED AREAS, NOT OTHERWISE SURFACED, ARE TO BE TOPSOILED, FERTILIZED, SEEDED AND COVERED WITH MULCH OR EROSION MAT, AS SHOWN ON THE PLANS.

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

THE EXACT LOCATIONS OF ALL EROSION CONTROL ITEMS SHALL BE DETERMINED BY THE ENGINEER.

ALL RADII ARE MEASURED TO EDGE OF PAVEMENT UNLESS OTHERWISE SHOWN OR NOTED ON THE PLAN.

EXPANSION JOINTS TO BE CONSTRUCTED AT ALL RADIUS POINTS IN CURB AND GUTTER OR AT LOCATIONS SHOWN ON THE PLAN.

THE LOCATION OF EXISTING MANHOLES AS SHOWN ON THE PLANS IS APPROXIMATE.

ALL NEW CONCRETE CULVERT PIPES REQUIRE JOINT TIES.

THE EXACT LOCATION OF PRIVATE AND FIELD ENTRANCES ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES EXCEPT WHEN CONSTRUCTION OPERATIONS REQUIRE THE DRIVEWAY TO BE CLOSED. ACCESS TO THE DRIVEWAY SHALL BE RE-ESTABLISHED IMMEDIATELY AFTER WORK IS COMPLETED.

THE EXACT LOCATION OF ACCESS POINTS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER, EXCEPT FOR CONTROLLED LOCATIONS SHOWN ON THE PLAT.

ANY MESH MATERIAL THAT IS FOUND IN THE EXISTING CONCRETE PAVEMENT SHALL BE INCIDENTAL TO THE REMOVAL OF THE PAVEMENT ITEM IN THAT SECTION. EXISTING PAVEMENT DEPTHS ARE BASED ON SOIL BORINGS AND MAY VARY IN THE FIELD.

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

END CONSTRUCTION
STA 50+50'USH'

PROJECT LOCATION
6528-07-50/51

END CONSTRUCTION
STA 29+00'RVR'

EQUATION
STA AHD = 161'WB'+59.88
STA BK = 161'WB'+07.18

WISCONSIN CENTRAL LTD

RIVER ROAD

HORTONIA

C-44-121
TRIBUTARY TO WOLF RIVER

CTH T

NEW LONDON

100'WB'
100'EB'
110'WB'
110'EB'
120'WB'
120'EB'
130'WB'
130'EB'
140'WB'
140'EB'
150'WB'
150'EB'
160'WB'
160'EB'

STH 15

USH 45

BEGIN PROJECT
STA 100'EB'+49

BEGIN CONSTRUCTION
STA 33+68'USH'

STA AHD = 114'WB'29.00
STA BK = 114'WB'25.48

EQUATION

BEGIN CONSTRUCTION
STA 17+00'CRS'

CROSS ROAD

LEDGE HILL ROAD

BEGIN CONSTRUCTION
STA 42+00'LED'

N

0 500 1000 Feet

STA AHD = 218'WB'+40.44
STA BK = 218'WB'+78.08

EQUATION

170'WB'
170'EB'
180'WB'
180'EB'
190'WB'
190'EB'
200'WB'
200'EB'
210'WB'
210'EB'
220'WB'
220'EB'
230'WB'
230'EB'
240'WB'
240'EB'

STH 15

C-44-122
TRIBUTARY TO WOLF RIVER

BEGIN CONSTRUCTION
STA 16+00'KLY'

KELLY DRIVE

APPROVED FOR DESIGN
OPTIONS/ADJUSTMENTS
OCTOBER 2019

N

0 500 1000 Feet

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PROJECT OVERVIEW	SHEET E

PRE_4

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\020201_PO.DWG
LAYOUT NAME - 020201_PO

PLOT DATE : 10/17/2019 3:37 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1" = 500'_XREF

WISDOT/CADDS SHEET 44

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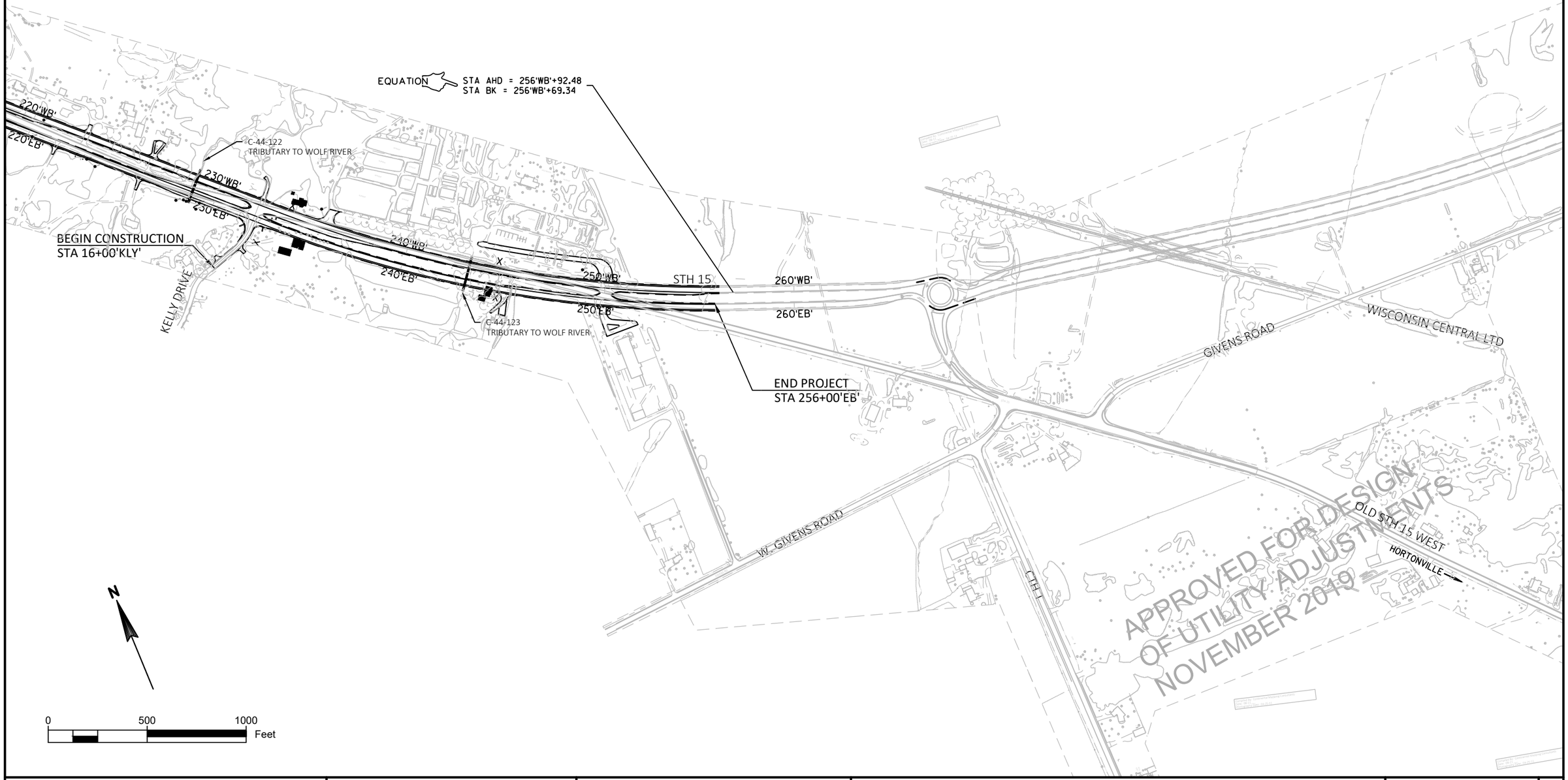
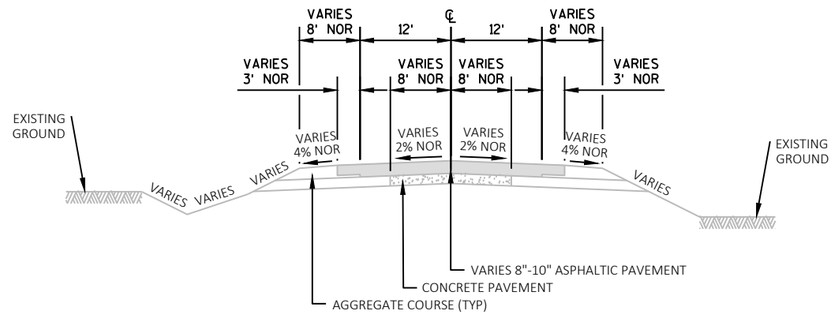


APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PROJECT OVERVIEW	SHEET E

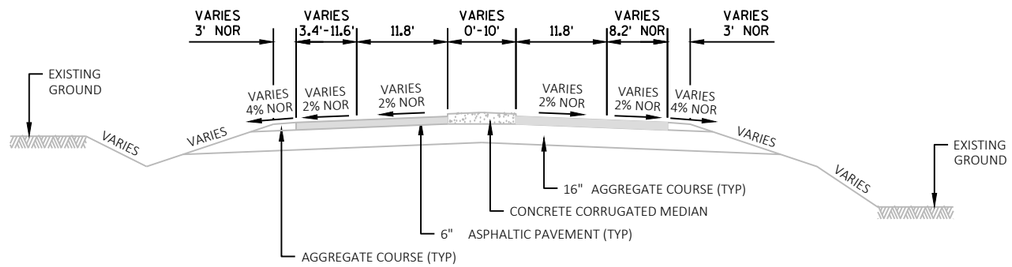
PRE_5



EXISTING TYPICAL SECTION

STH 15

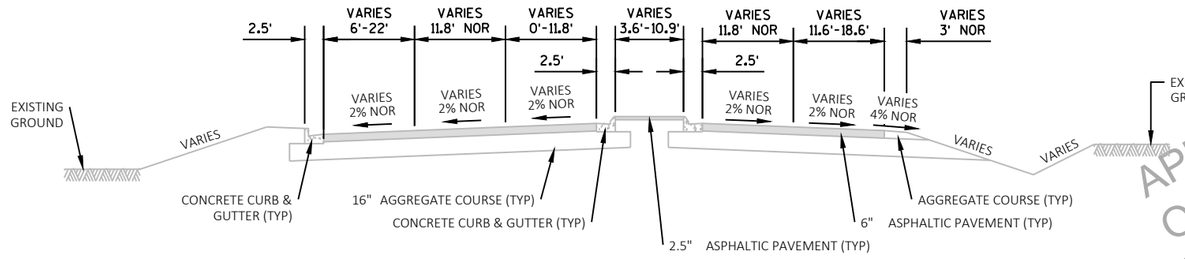
STA 107+00 TO STA 144+45
STA 191+50 TO STA 205+80
STA 219+50 TO STA 245+20



EXISTING TYPICAL SECTION

STH 15

STA 104+15 TO STA 107+00



APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

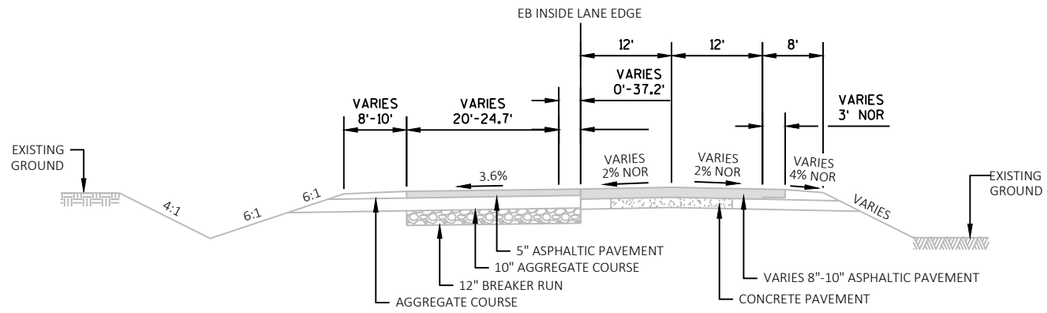
EXISTING TYPICAL SECTION

STH 15

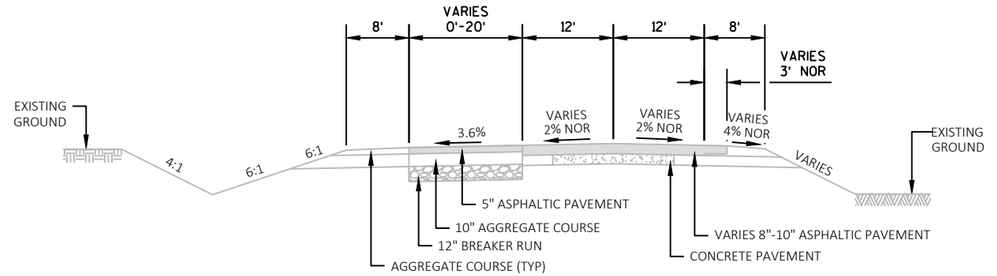
STA 100+49 TO STA 104+15

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	TYPICAL SECTIONS - EXISTING	SHEET E

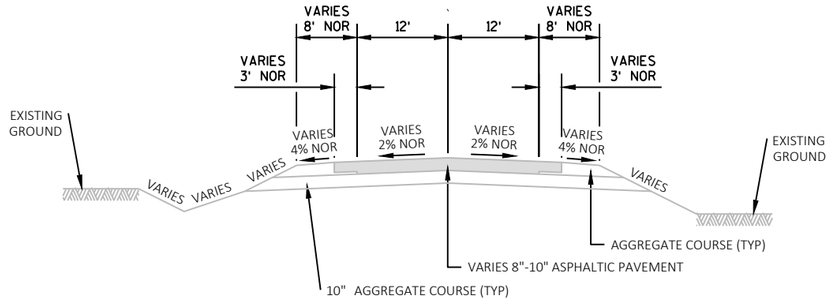
2



EXISTING TYPICAL SECTION
STH 15
STA 246+95 TO STA 250+37



EXISTING TYPICAL SECTION
STH 15
STA 245+20 TO STA 246+95

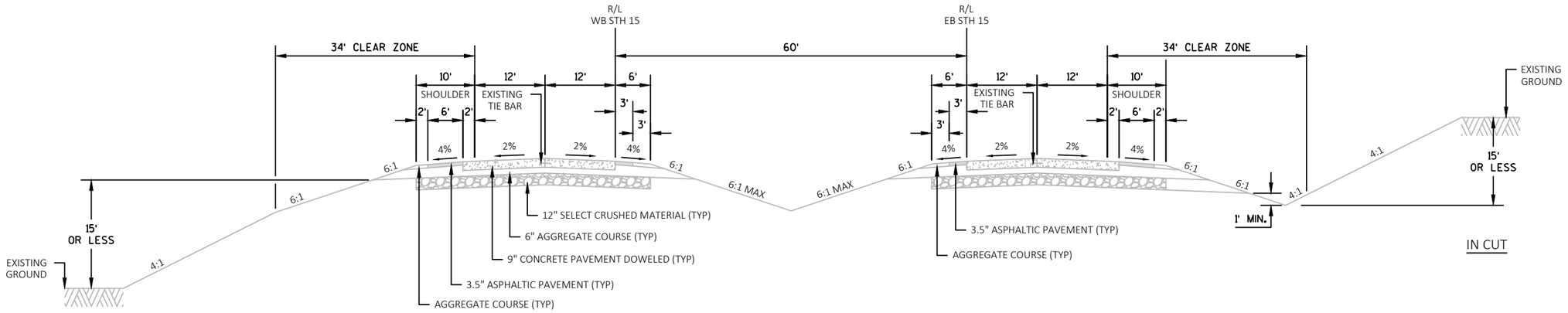


EXISTING TYPICAL SECTION
STH 15
STA 144+45 TO STA 191+50
STA 205+80 TO STA 219+50

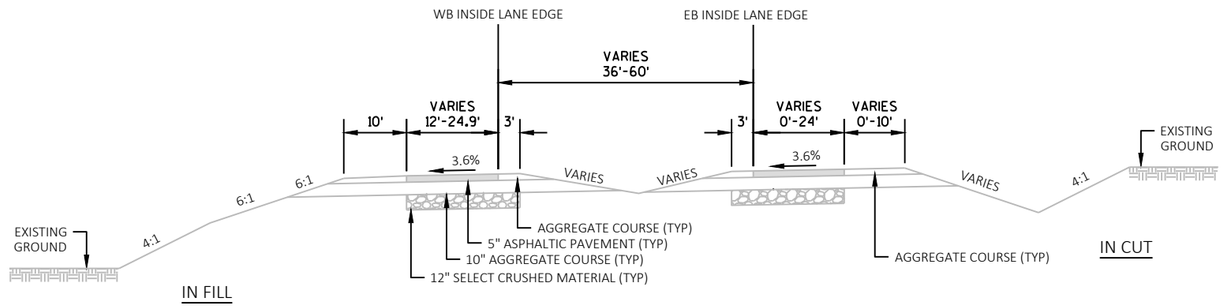
APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	TYPICAL SECTIONS - EXISTING	SHEET E

PRE_7



EXISTING TYPICAL SECTION
STH 15
STA 256'EB'+00 TO STA 258'EB'+00



EXISTING TYPICAL SECTION
STH 15
STA 250+38 TO STA 256+00

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	TYPICAL SECTIONS - EXISTING	SHEET E

PRE_8

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\020301_TS.DWG
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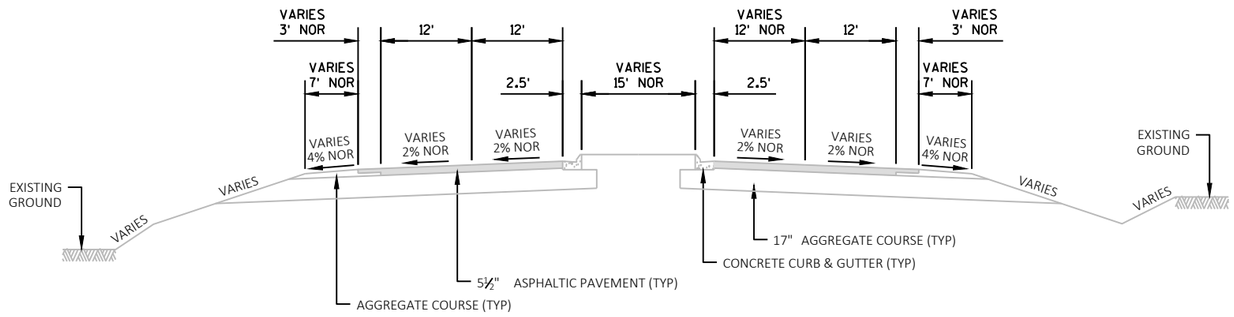
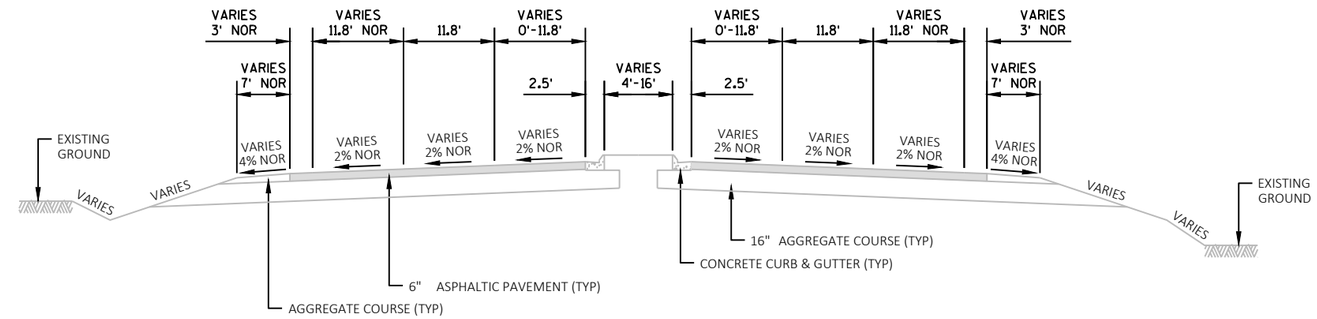
PLOT DATE : 10/17/2019 3:40 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT

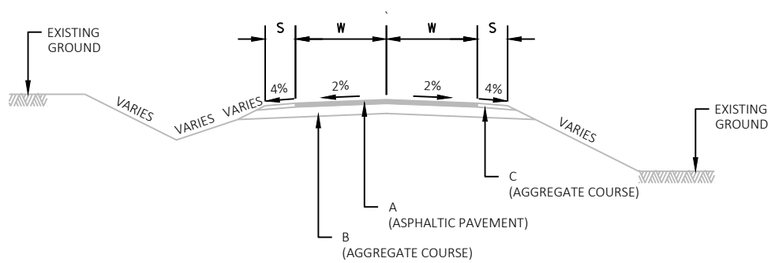


EXISTING TYPICAL SECTION
USH 45
STA 43+70 TO STA 50+50



EXISTING TYPICAL SECTION
USH 45
STA 32+25 TO STA 43+70

LOCAL ROADS					
ROAD	PAVEMENT (NOR)		AGGREGATE SHOULDER (NOR)		BASE (NOR)
	WIDTH (W)	THICKNESS (A)	WIDTH (S)	THICKNESS (C)	THICKNESS (B)
RIVER RD	11'	3"	1'	3"	8"
CROSS RD	12'	4"	3'	4"	8"
LEDGE HILL RD	11'	3"	3'	3"	8"
KELLY DR	11'	3"	2'	3"	8"



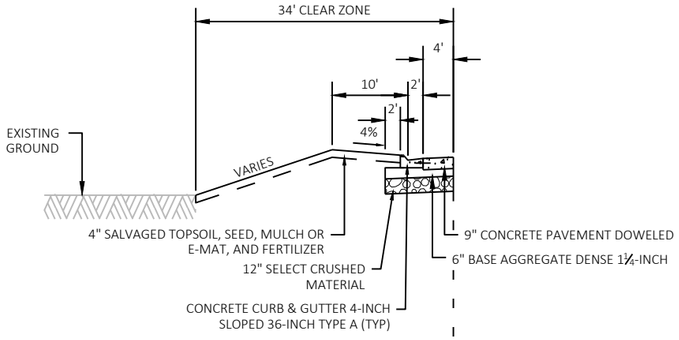
EXISTING TYPICAL SECTION
LOCAL ROADS - SEE TABLE

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

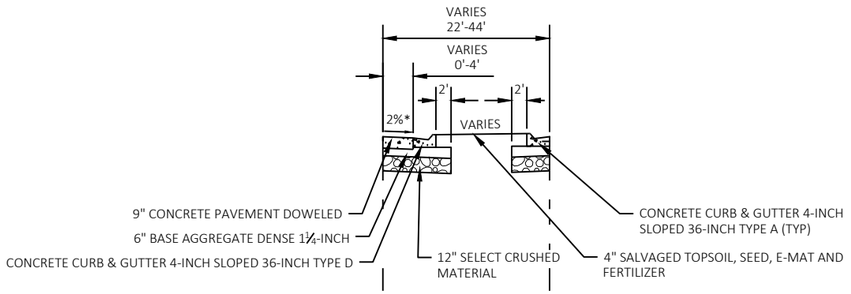
2

NOTES

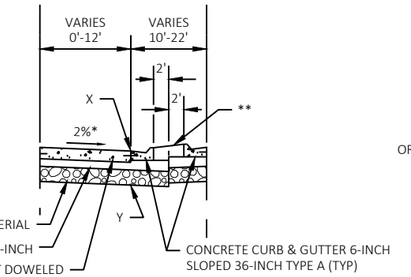
"X" = POINT REFERENCED TO ON PROFILE (PROFILE GRADE LINE - PGL)
"Y" = SUBGRADE REFERRED TO ON CROSS SECTIONS CROSS SLOPE VARIES DUE TO
* = SUPERELEVATION (SEE CROSS SECTIONS AND SUPERELEVATION TABLE FOR FURTHER DETAILS)



CURB & GUTTER SECTION
STA 100'EB'+49 TO STA 106'EB'+00



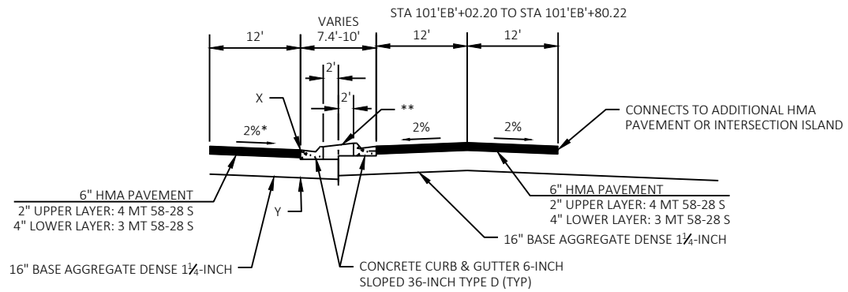
CONCRETE SHOULDER SECTION
STA 109'WB'+63.91 TO STA 114'WB'+25.48



** STA 101'WB'+84.65 TO STA 103'WB'+50.12 - CONCRETE SIDEWALK 4-INCH
STA 103'WB'+50.12 TO STA 105'WB'+00 - SALVAGED TOPSOIL, SEED, E-MAT AND FERTILIZER

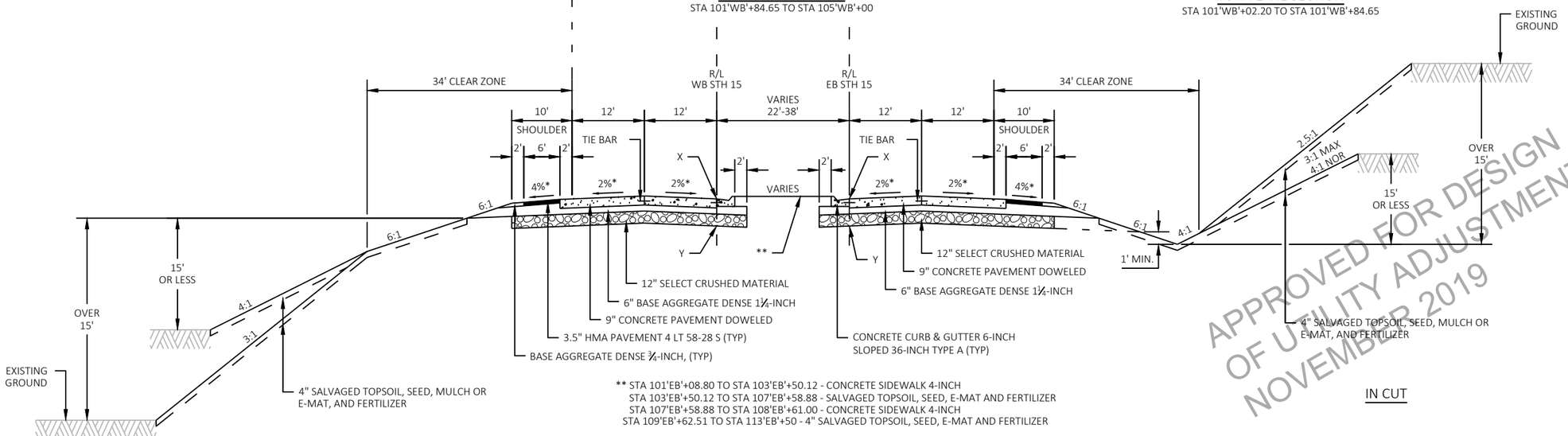
TURN LANE SECTION
STA 101'WB'+84.65 TO STA 105'WB'+00

OR



** CONCRETE SIDEWALK 4-INCH

TURN LANE SECTION
STA 101'WB'+02.20 TO STA 101'WB'+84.65



** STA 101'EB'+08.80 TO STA 103'EB'+50.12 - CONCRETE SIDEWALK 4-INCH
STA 103'EB'+50.12 TO STA 107'EB'+58.88 - SALVAGED TOPSOIL, SEED, E-MAT AND FERTILIZER
STA 107'EB'+58.88 TO STA 108'EB'+61.00 - CONCRETE SIDEWALK 4-INCH
STA 109'EB'+62.51 TO STA 113'EB'+50 - 4" SALVAGED TOPSOIL, SEED, E-MAT AND FERTILIZER

FINISHED TYPICAL SECTION
STH 15
STA 101'EB'+80.22 TO STA 113'EB'+50

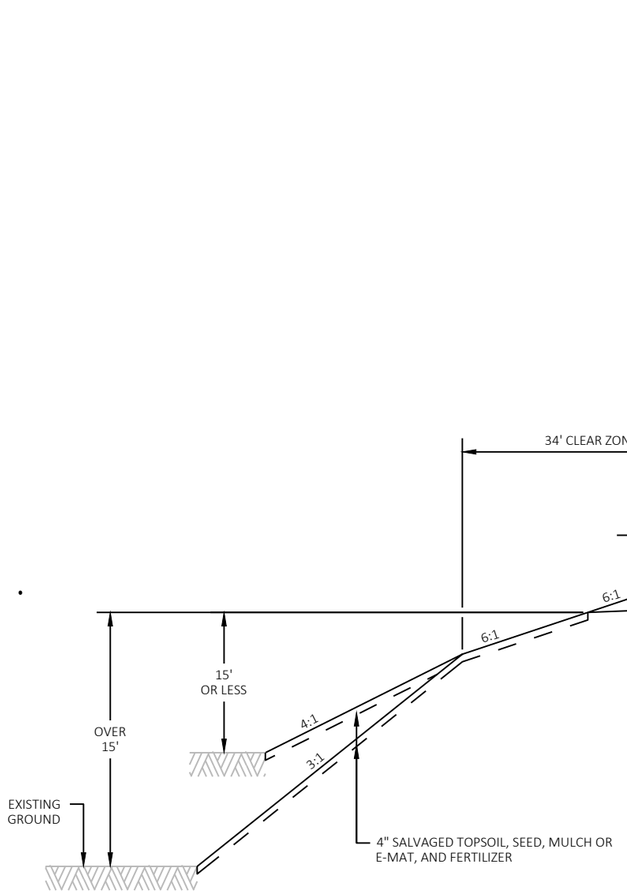
IN FILL

IN CUT

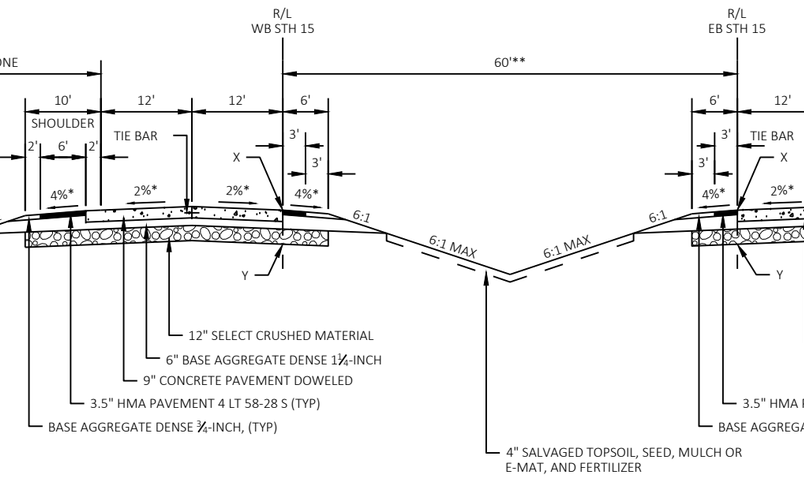
APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	TYPICAL SECTIONS - PROPOSED	SHEET E

2



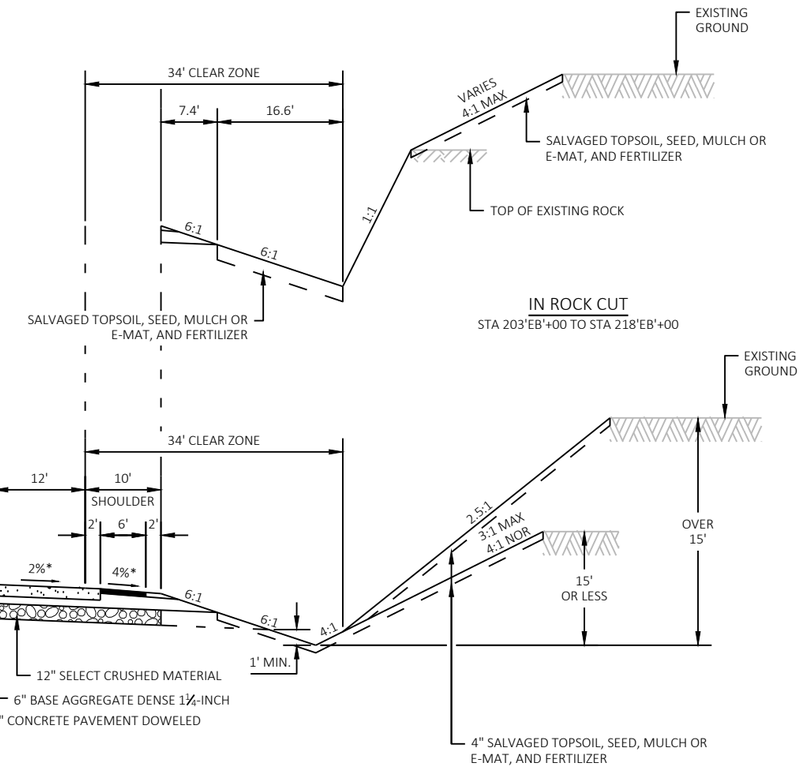
IN FILL



FINISHED TYPICAL SECTION

STH 15

STA 113'EB'+50 TO STA 256'EB'+00



IN ROCK CUT

STA 203'EB'+00 TO STA 218'EB'+00

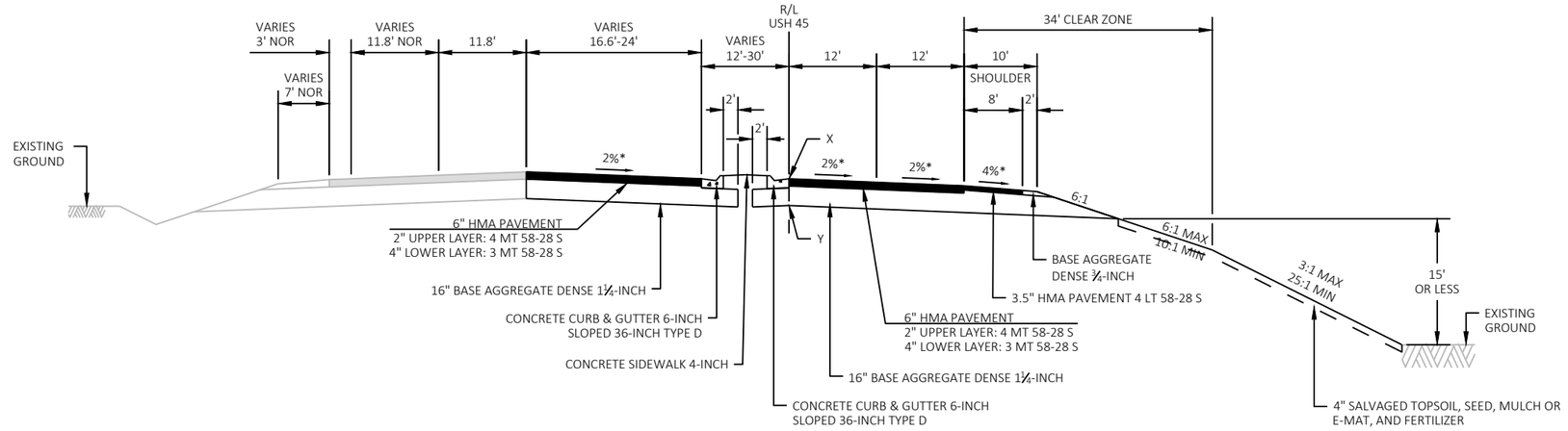
IN CUT

NOTES

"X" = POINT REFERENCED TO ON PROFILE (PROFILE GRADE LINE - PGL)
"Y" = SUBGRADE REFERRED TO ON CROSS SECTIONS
* CROSS SLOPE VARIES DUE TO SUPERELEVATION (SEE CROSS SECTIONS AND SUPERELEVATION TABLE FOR FURTHER DETAILS)
** MEDIAN WIDTH VARIES FROM 22' TO 60' FROM STA 109'EB'+61 TO STA 118'EB'+70.

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

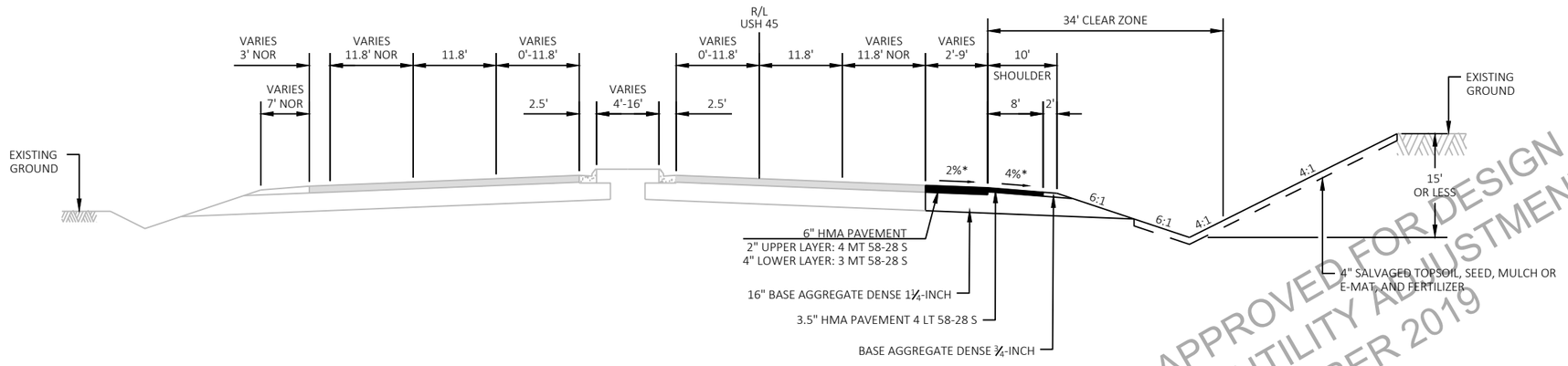
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	TYPICAL SECTIONS - PROPOSED	SHEET E



FINISHED TYPICAL SECTION

USH 45

STA 40'USH'+66 - STA 42'USH'+66



FINISHED TYPICAL SECTION

USH 45

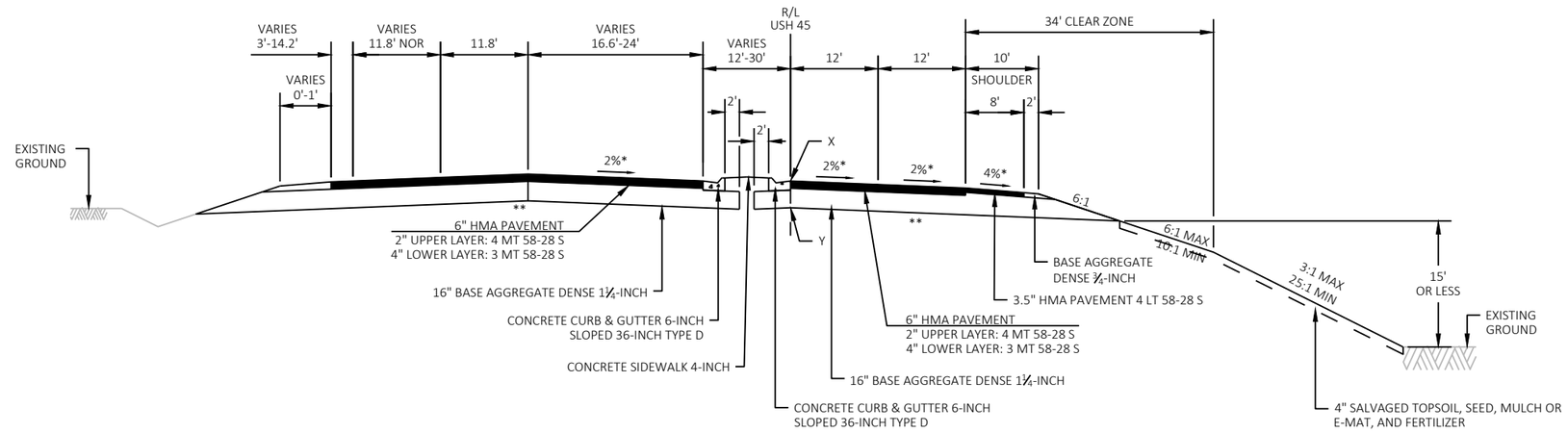
STA 33'USH'+66 - STA 40'USH'+66

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

NOTES

"X" = POINT REFERENCED TO ON PROFILE (PROFILE GRADE LINE - PGL)
"Y" = SUBGRADE REFERRED TO ON CROSS SECTIONS
* = SUPERELEVATION (SEE CROSS SECTIONS AND SUPERELEVATION TABLE FOR FURTHER DETAILS)

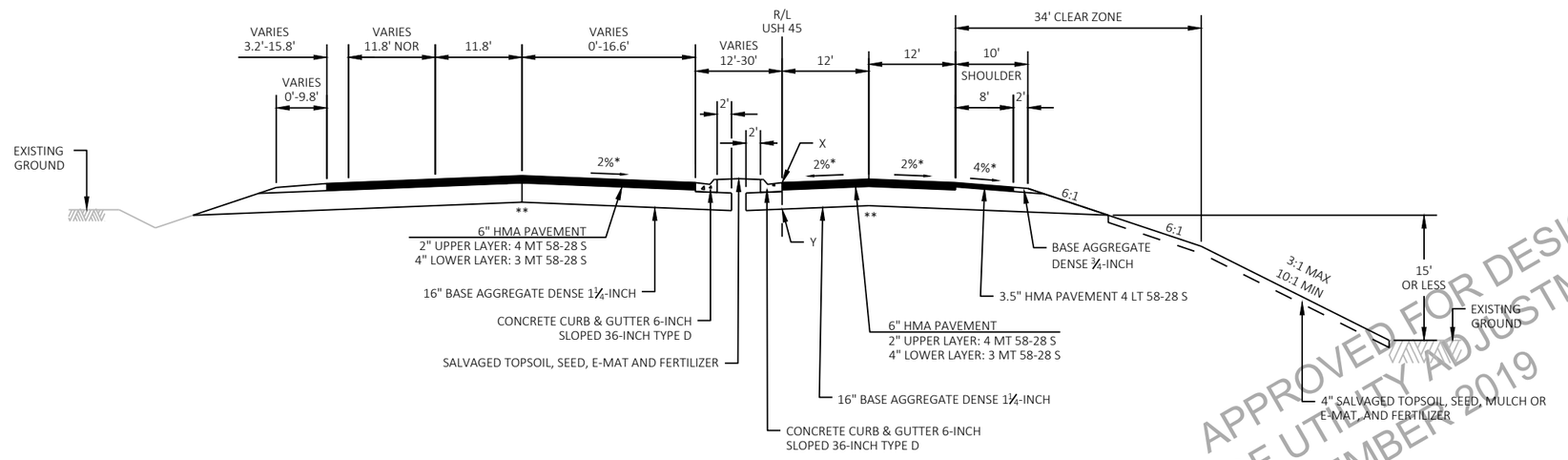
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	TYPICAL SECTIONS - PROPOSED	SHEET PRE_12 E



FINISHED TYPICAL SECTION

USH 45

STA 42'USH'+66 - STA 43'USH'+79



FINISHED TYPICAL SECTION

USH 45

STA 43'USH'+79 - STA 44'USH'+85

NOTES

"X" = POINT REFERENCED TO ON PROFILE (PROFILE GRADE LINE - PGL)
"Y" = SUBGRADE REFERRED TO ON CROSS SECTIONS
* = CROSS SLOPE VARIES DUE TO SUPERELEVATION (SEE CROSS SECTIONS AND SUPERELEVATION TABLE FOR FURTHER DETAILS)
** = STA 43'USH'+41 - STA 44'USH'+03 - SUBGRADE IMPROVEMENT AREA - SEE RAILROAD CROSSING - SUBGRADE IMPROVEMENT DETAILS.

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	TYPICAL SECTIONS - PROPOSED	SHEET E

PRE_13

2

2

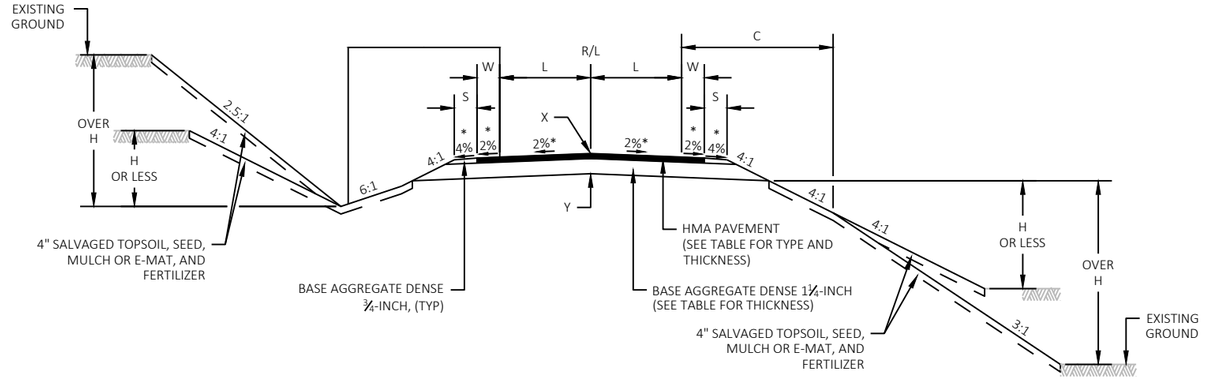
NOTES

"X" = POINT REFERENCED TO ON PROFILE (PROFILE GRADE LINE - PGL)
"Y" = SUBGRADE REFERRED TO ON CROSS SECTIONS
* CROSS SLOPE VARIES DUE TO SUPERELEVATION (SEE CROSS SECTIONS AND SUPERELEVATION TABLE FOR FURTHER DETAILS)

LOCAL ROADS								
ROAD	PAVEMENT		AGGREGATE SHOULDER	CLEAR ZONE	SIDE SLOPE	PAVEMENT STRUCTURE		
	LANE WIDTH (L)	SHOULDER WIDTH (W)	WIDTH (S)	WIDTH (C)	HEIGHT (H)	HMA TYPE	HMA THICKNESS	B.A.D. 1¼-INCH THICKNESS
RIVER RD	10'	1'	2'	10'	10'	4 LT 58-28 S 3 LT 58-28 S	4.0" **	12.0"
CROSS RD	12'	0'	6'	14'	10'	4 LT 58-28 S 3 LT 58-28 S	4.0" **	12.0"
LEDGE HILL RD	11'	0'	4'	18'	10'	4 LT 58-28 S 3 LT 58-28 S	4.0" **	12.0"
KELLY DR	10'	1'	2'	10'	10'	4 LT 58-28 S 3 LT 58-28 S	4.0" **	12.0"

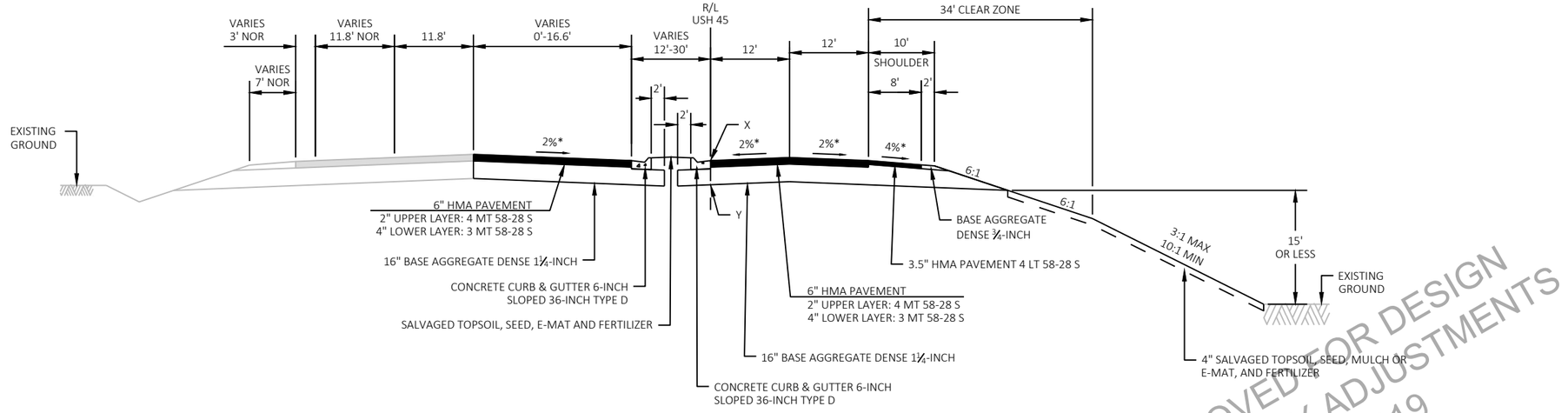
NOTE

** = 1.75" OF 4 LT 58-28 S UPPER LAYER AND 2.25" OF 3 LT 58-28 S LOWER LAYER



IN CUT IN FILL

FINISHED TYPICAL SECTION
LOCAL ROADS - SEE TABLE



FINISHED TYPICAL SECTION
USH 45
STA 44'USH'+85 - STA 50'USH'+51

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

NOTES

* = SUPERELEVATION (SEE CROSS SECTIONS AND SUPERELEVATION TABLE FOR FURTHER DETAILS)

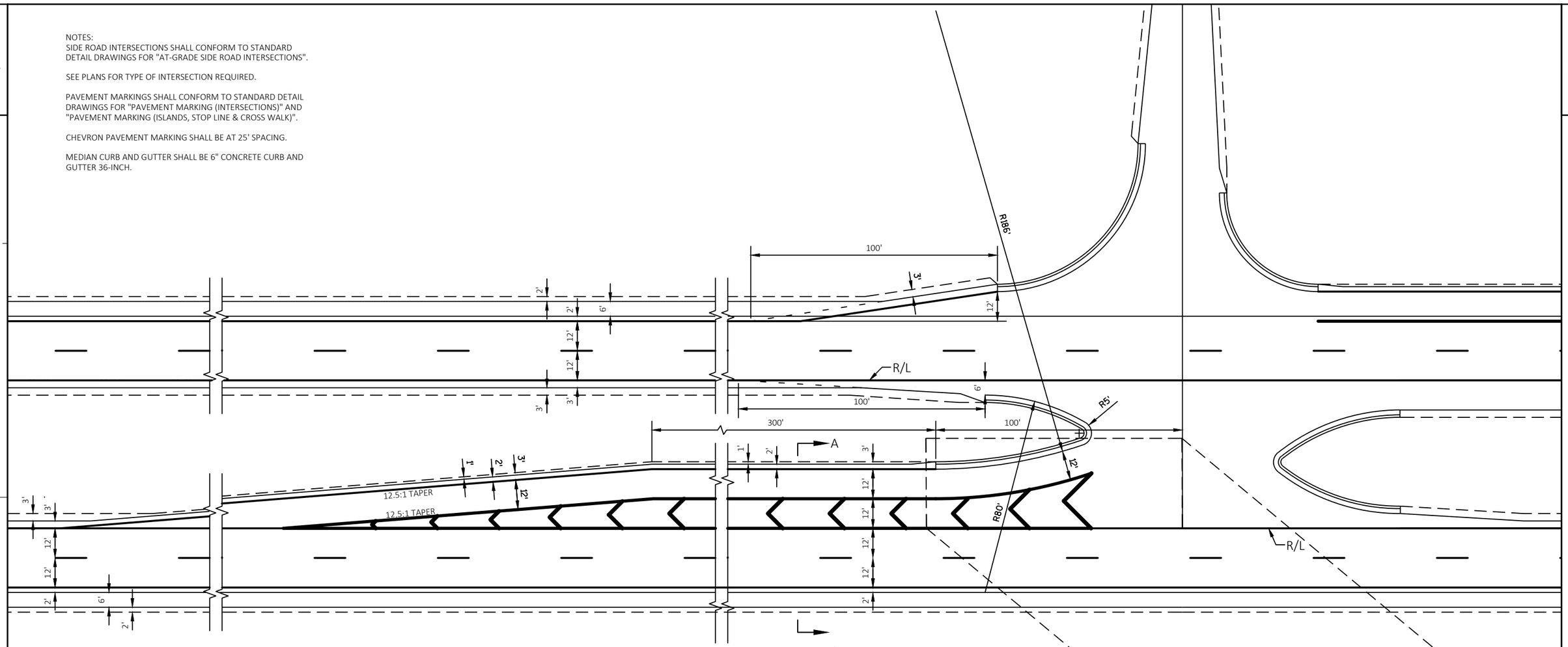
NOTES:
SIDE ROAD INTERSECTIONS SHALL CONFORM TO STANDARD DETAIL DRAWINGS FOR "AT-GRADE SIDE ROAD INTERSECTIONS".

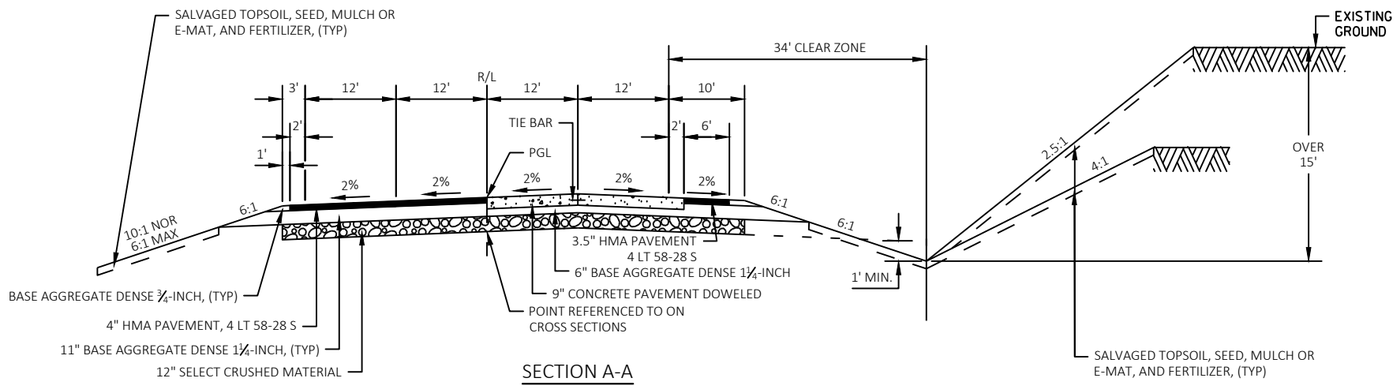
SEE PLANS FOR TYPE OF INTERSECTION REQUIRED.

PAVEMENT MARKINGS SHALL CONFORM TO STANDARD DETAIL DRAWINGS FOR "PAVEMENT MARKING (INTERSECTIONS)" AND "PAVEMENT MARKING (ISLANDS, STOP LINE & CROSS WALK)".

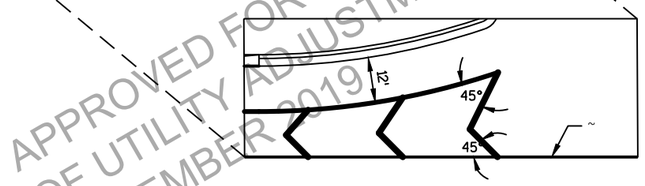
CHEVRON PAVEMENT MARKING SHALL BE AT 25' SPACING.

MEDIAN CURB AND GUTTER SHALL BE 6" CONCRETE CURB AND GUTTER 36-INCH.





SECTION A-A



PAVEMENT MARKING FOR "T" INTERSECTIONS

APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CONSTRUCTION DETAILS - INTERSECTION TURN LANES	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021001_CD.DWG
LAYOUT NAME – 021001_CD
PLOT DATE : 10/22/2019 1:35 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : ---------- PLOT SCALE : 1" = 40'
WISDOT/CADDS SHEET 42

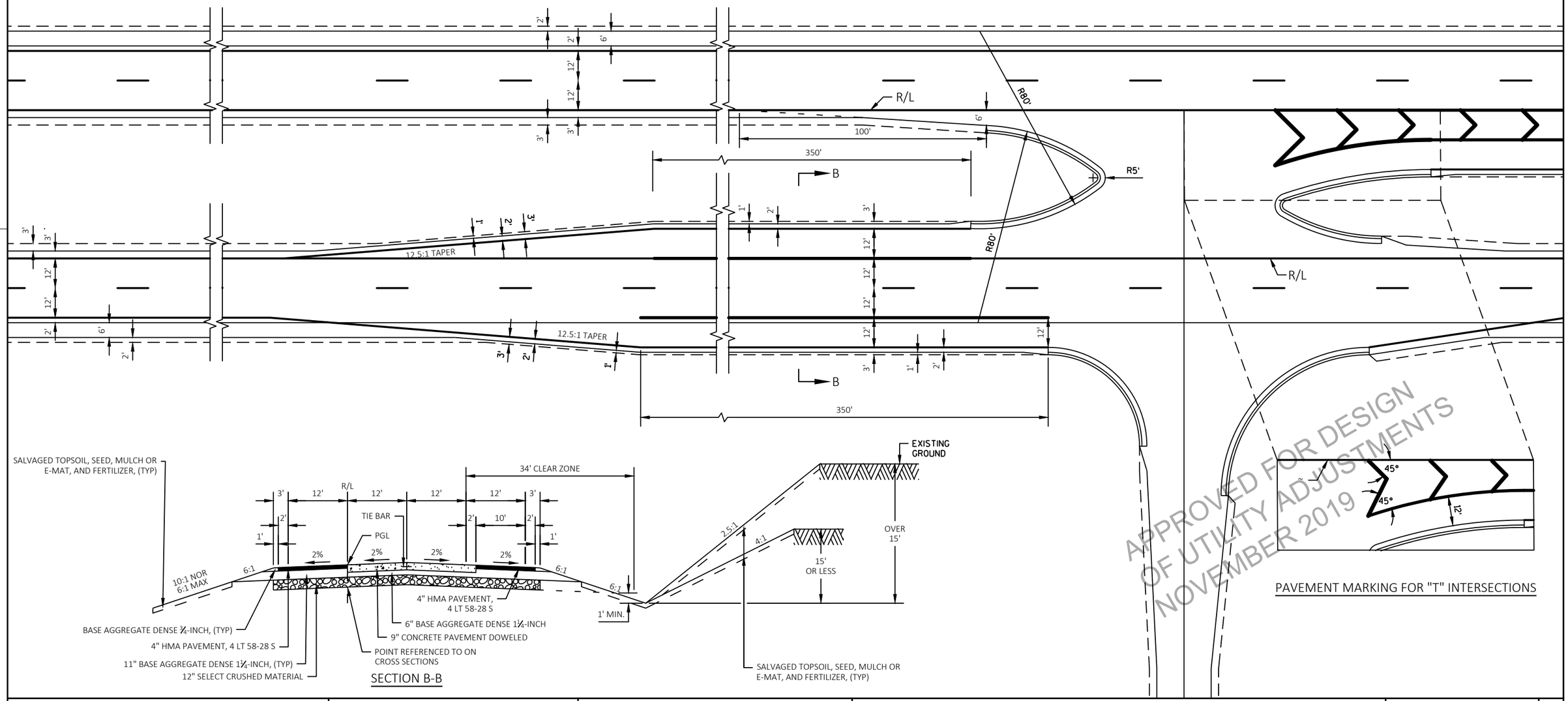
NOTES:
SIDE ROAD INTERSECTIONS SHALL CONFORM TO STANDARD DETAIL DRAWINGS FOR "AT-GRADE SIDE ROAD INTERSECTIONS".

SEE PLANS FOR TYPE OF INTERSECTION REQUIRED.

PAVEMENT MARKINGS SHALL CONFORM TO STANDARD DETAIL DRAWINGS FOR "PAVEMENT MARKING (INTERSECTIONS)" AND "PAVEMENT MARKING (ISLANDS, STOP LINE & CROSS WALK)".

CHEVRON PAVEMENT MARKING SHALL BE AT 25' SPACING.

MEDIAN CURB AND GUTTER SHALL BE CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D



SECTION B-B

PAVEMENT MARKING FOR "T" INTERSECTIONS

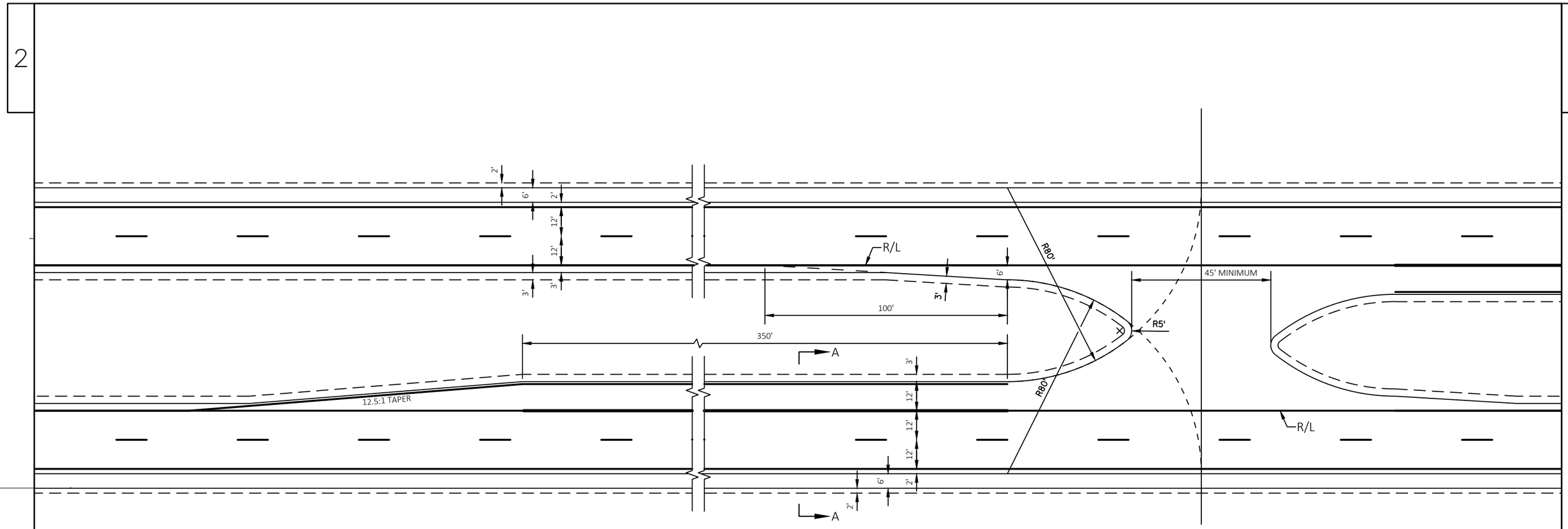
APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

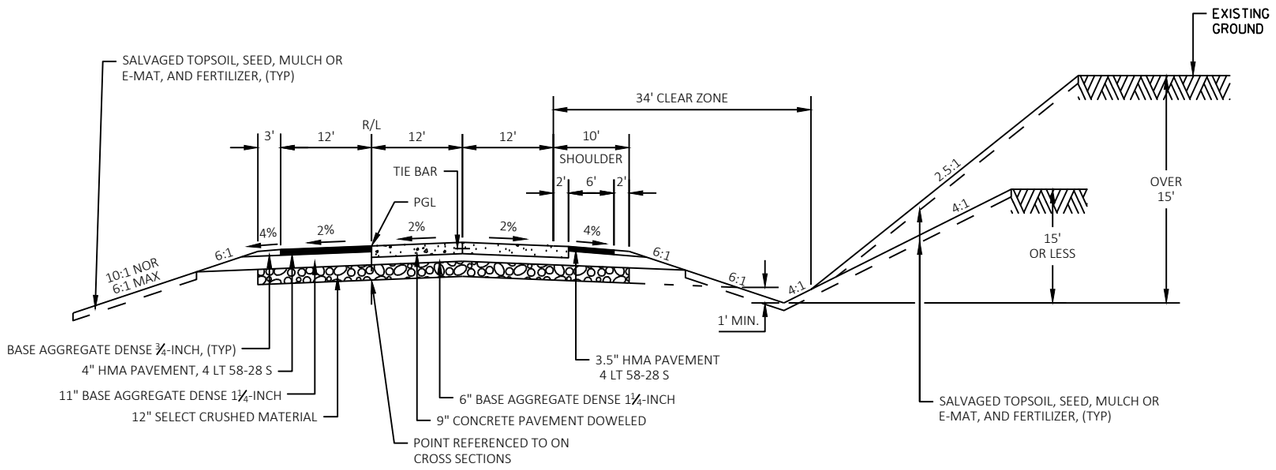
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CONSTRUCTION DETAILS - INTERSECTION TURN LANES	SHEET E

PRE_16

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021001_CD.DWG
LAYOUT NAME – 021002_CD

PLOT DATE : 10/22/2019 1:35 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : ---------- PLOT SCALE : 1" = 40'



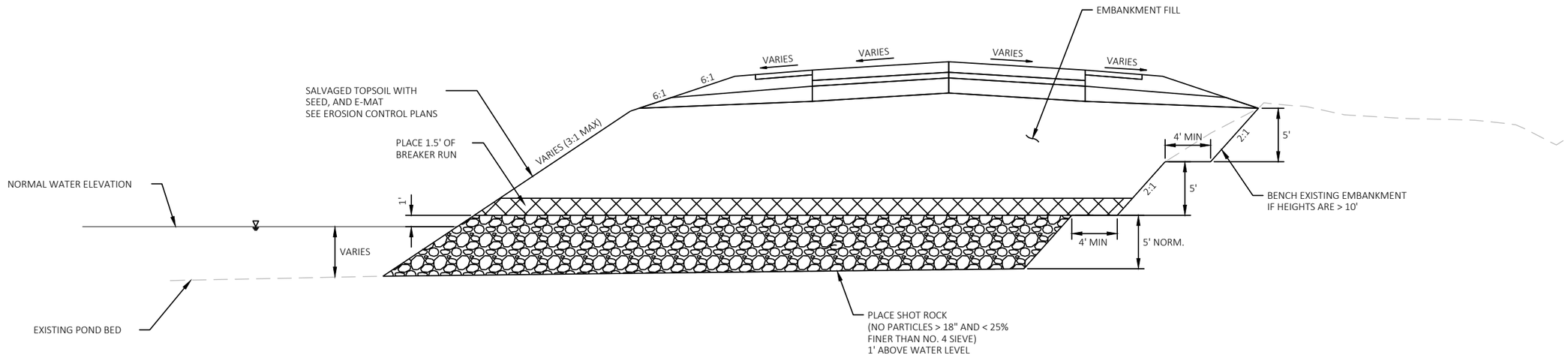


SECTION A-A

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CONSTRUCTION DETAILS - MEDIAN CROSSOVERS	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021001_CD.DWG
LAYOUT NAME – 021003_CD
PLOT DATE : 10/22/2019 1:35 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : ---------- PLOT SCALE : 1" = 40'
WISDOT/CADDS SHEET 42



NOTE:

1) SEE CROSS SECTIONS FOR APPROXIMATE POND DEPTHS AT EACH LOCATION.

2) THE AREA OF BREAKER RUN AND SHOT ROCK USED TO BACKFILL THE POND AS SHOWN IS NOT INCLUDED IN THE ROADWAY EMBANKMENT QUANTITY AND WILL NOT BE PAID AS ROADWAY EMBANKMENT.

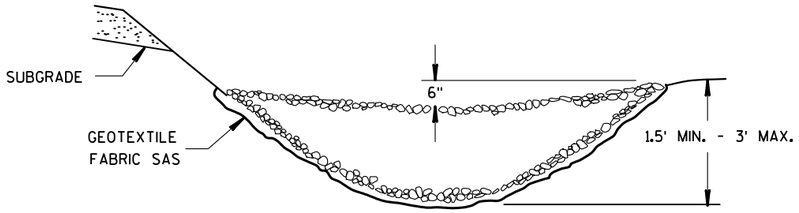
POND FILL DETAIL

STA. 177'WB'+80 (LT)
STA. 210'WB'+20 (LT)

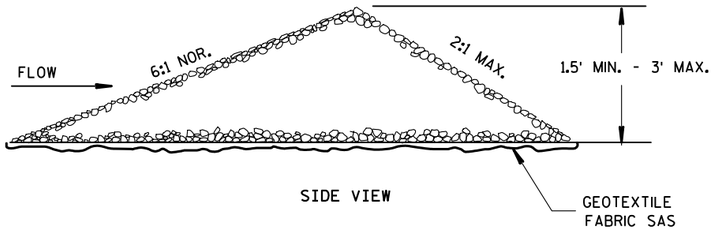
APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CONSTRUCTION DETAILS - POND FILLS	SHEET E

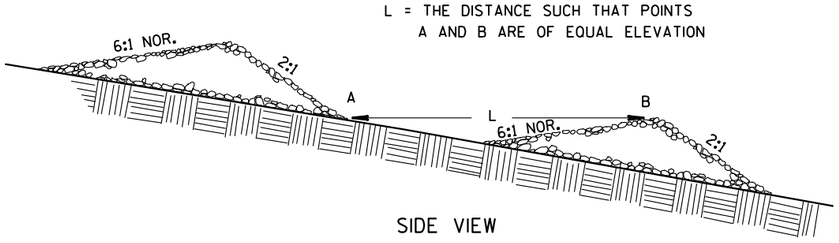
FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021001_CD.DWG
LAYOUT NAME – 021004_CD
PLOT DATE : 10/22/2019 1:35 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : ---------- PLOT SCALE : 1" = 40'
WISDOT/CADDS SHEET 42



CROSS SECTIONAL VIEW



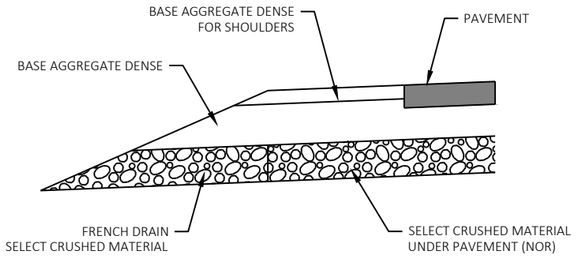
SIDE VIEW



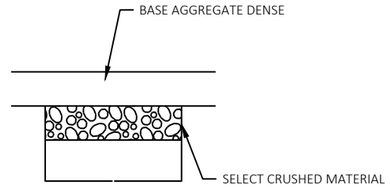
SIDE VIEW

PERMANENT STONE DITCH CHECK

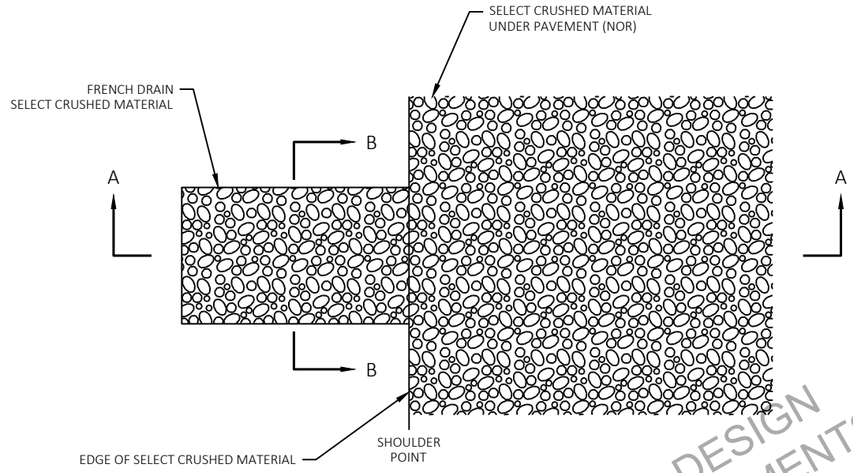
APPROXIMATE LOCATIONS ARE ILLUSTRATED ON EROSION CONTROL (PERMANENT) SHEETS AND STATION RANGES ARE ILLUSTRATED ON MISCELLANEOUS QUANTITY SHEETS IN PERMANENT EROSION CONTROL SECTION.



SECTION A-A



SECTION B-B



DETAIL FOR FRENCH DRAINS

DRAINS ARE TO BE CONSTRUCTED AT LEAST EVERY 250' AND AT EACH LOW POINT OF A SAG VERTICAL CURVE IN THE PROFILE.

LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

EXCAVATION REQUIRED TO CONSTRUCT FRENCH DRAINS SHALL BE CONSIDERED INCIDENTAL TO THE ITEM SELECT CRUSHED MATERIAL.

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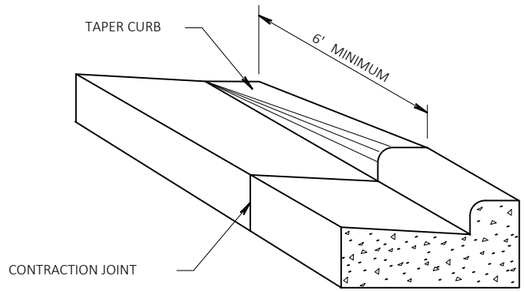
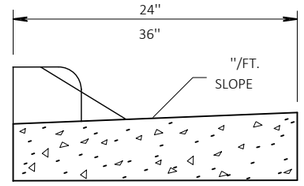
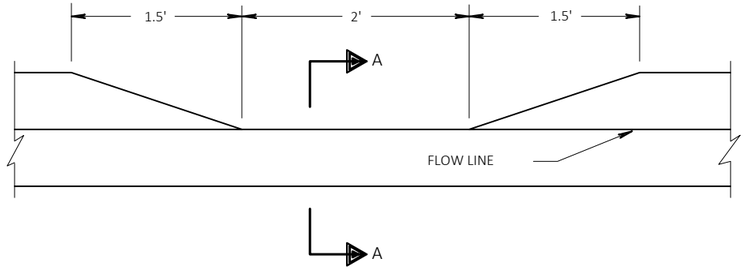
OF UTILITY ADJUSTMENTS
NOVEMBER 2019



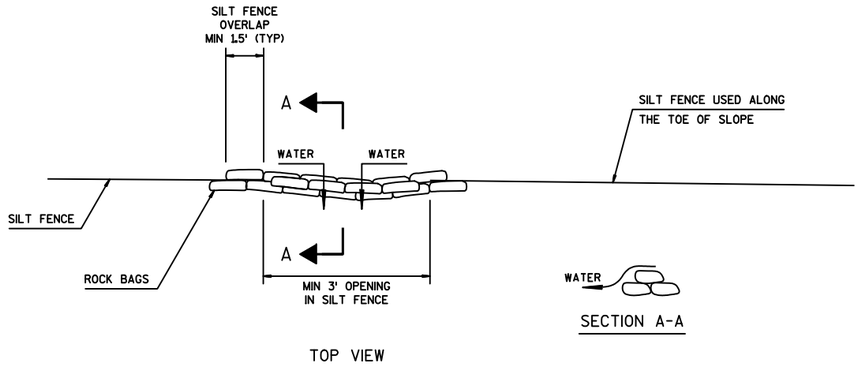
DETAIL OF CURB & GUTTER TERMINI



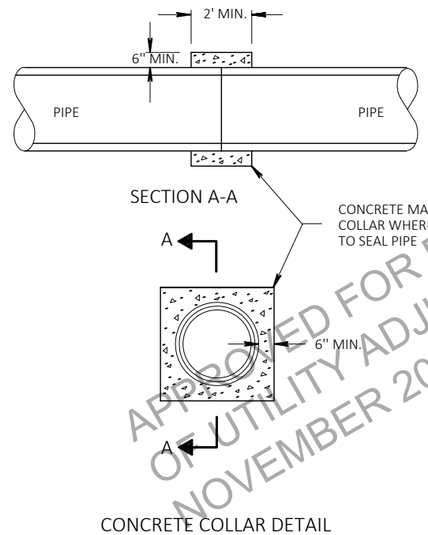
SECTION A-A



DETAIL OF CURB HEAD DEPRESSION FOR
DRAINAGE AT CURB & GUTTER SECTION



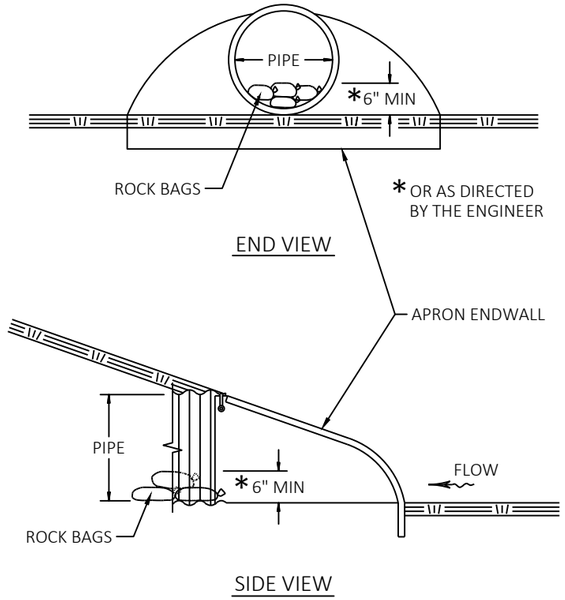
ROCK BAGS USED FOR SILT FENCE RELIEF DETAIL
PAID AS ROCK BAGS



APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

CONCRETE COLLAR DETAIL

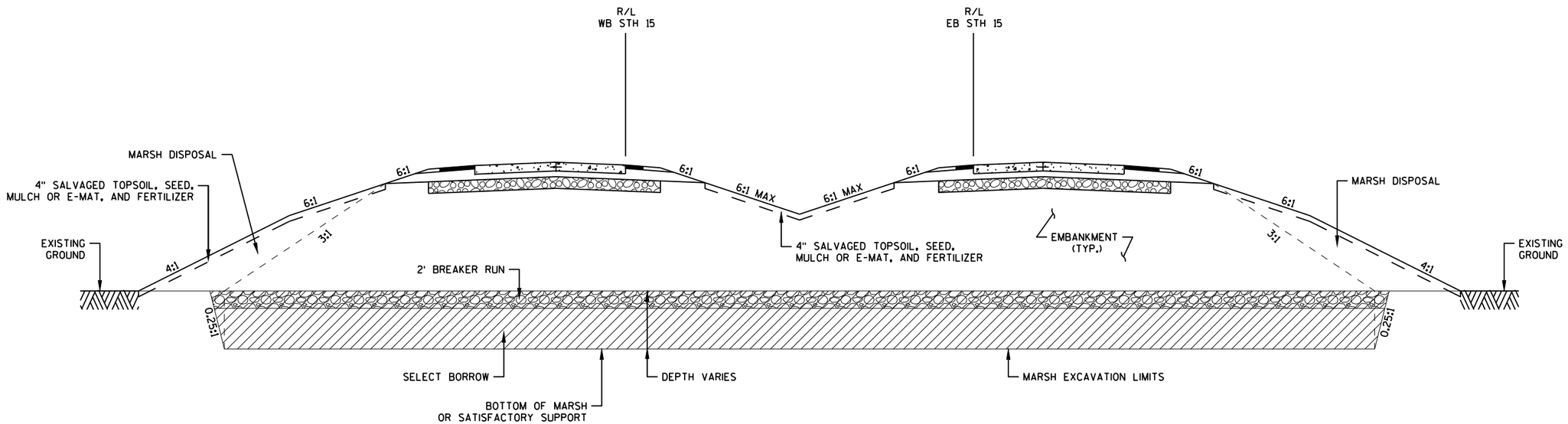
2



CULVERT PIPE CHECKS

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

2



MARSH EXCAVATION DETAIL

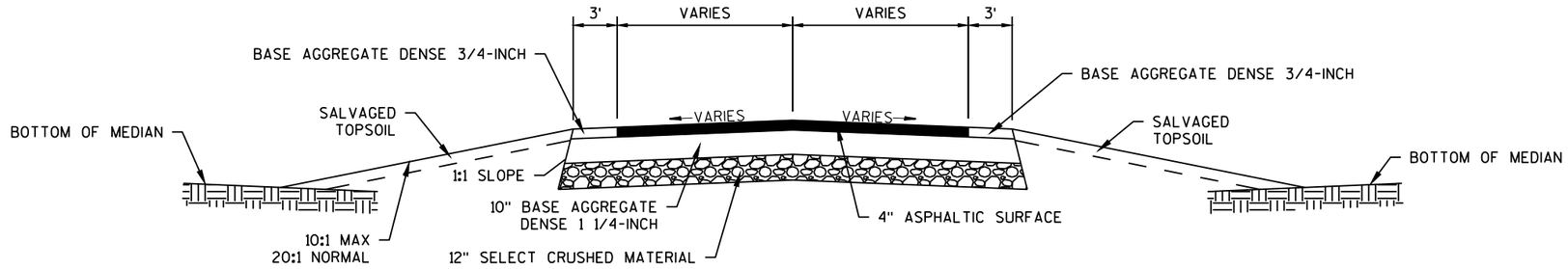
STH 15

WEST BOUND
STA 141'WB'+00 TO 143'WB'+00

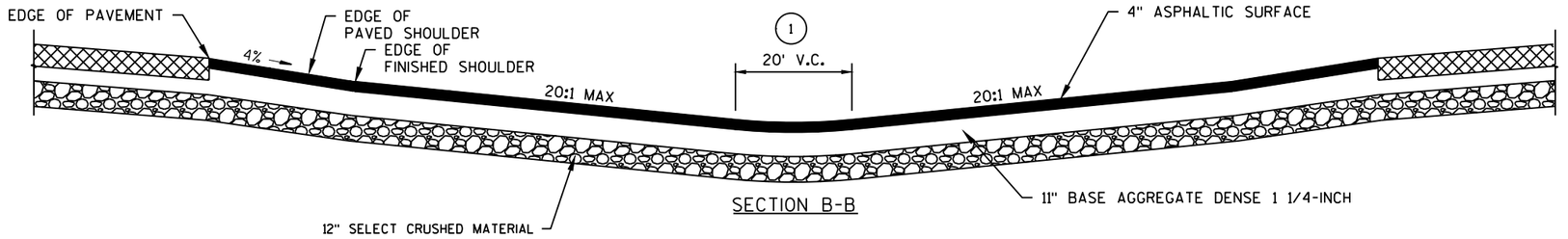
EAST BOUND
STA 141'EB'+00 TO 143'EB'+00

NOTES:
1. LIMITS OF MARSH EXCAVATION SHALL EXTEND TO 3:1 SLOPE INTERCEPT AS A MINIMUM.
2. ROADWAY EMBANKMENT SHALL BE USED FOR BACKFILL BETWEEN NORMAL ROADWAY CORE (1:1 SLOPE INTERCEPT FROM SUBGRADE SHOULDER POINT) AND 3:1 SLOPE INTERCEPT.
3. MARSH DISPOSAL IS ALLOWED OUTSIDE OF 3:1 SLOPES PROJECT-WIDE WHERE FILL HEIGHT 'H' DOES NOT EXCEED 10'.
4. THE AREA OF BREAKER RUN AND SELECT BORROW USED TO BACKFILL THE MARSH EXCAVATION AS SHOWN ABOVE IS NOT INCLUDED IN THE ROADWAY EMBANKMENT QUANTITY AND WILL NOT BE PAID AS ROADWAY EMBANKMENT.

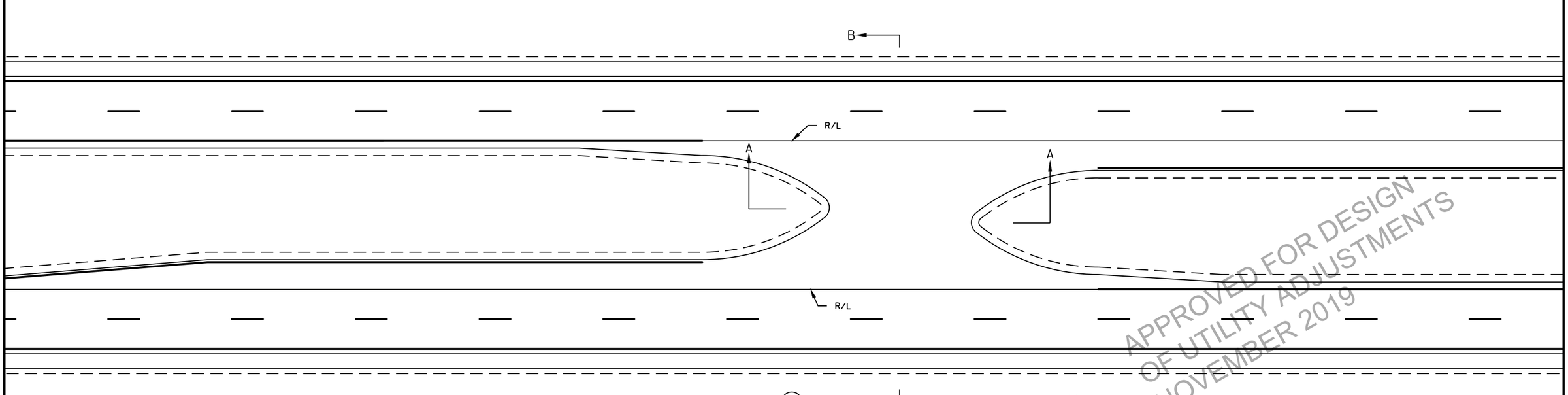
APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019



SECTION A-A



SECTION B-B



APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

GENERAL NOTES

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

MEDIAN CROSSING DETAIL (2)

STA 159+'EB'+45
STA 192'EB'+06
STA 215'EB'+74
STA 250'EB'+45

(1) ADJUST VERTICAL CURVE LOCATION LATERALLY TO MAINTAIN 20:1 MAX.

(2) SEE PERMANENT SIGNING PLAN FOR SIGN LOCATIONS.

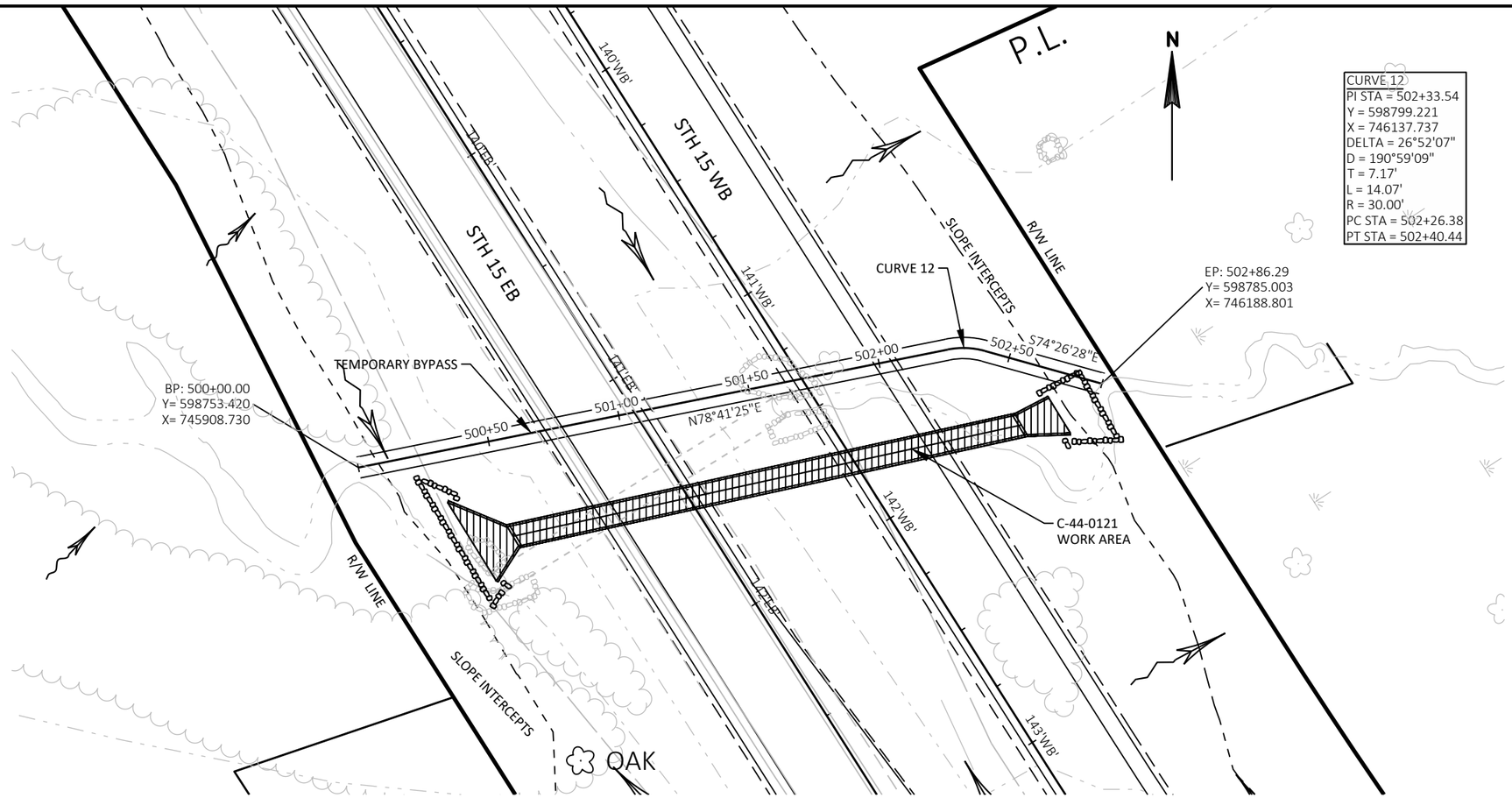
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CONSTRUCTION DETAILS - MEDIAN CROSSINGS	SHEET E

PRE_23

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021001_CD.DWG
LAYOUT NAME - 021009_cd

PLOT DATE : 10/22/2019 1:35 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : ##########

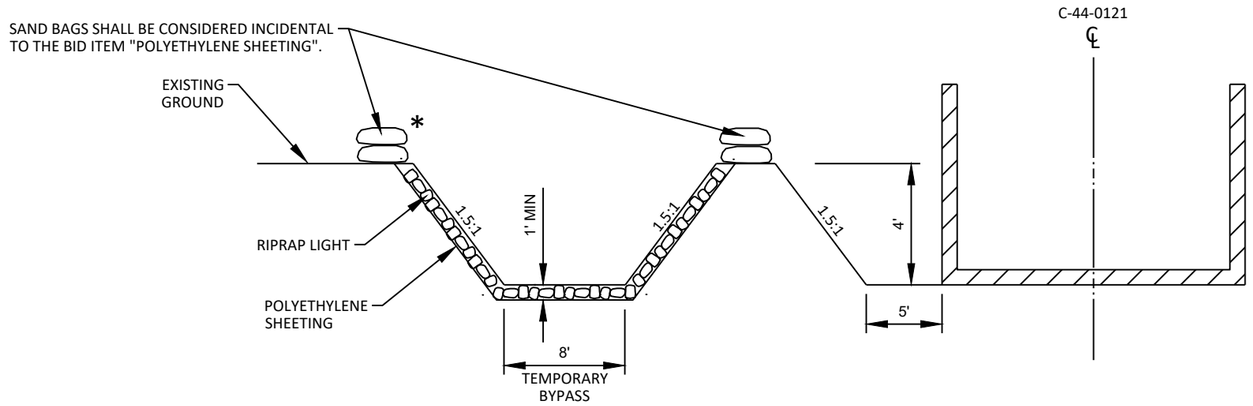
2



PLAN VIEW TEMPORARY BYPASS

(1 INCH = 50 FT)

* EDGES OF CHANNEL LINER SHALL BE TRENCHED AND SECURED BY SAND BAGS.



TYPICAL SECTION TEMPORARY BYPASS

(1 INCH = 10 FT)

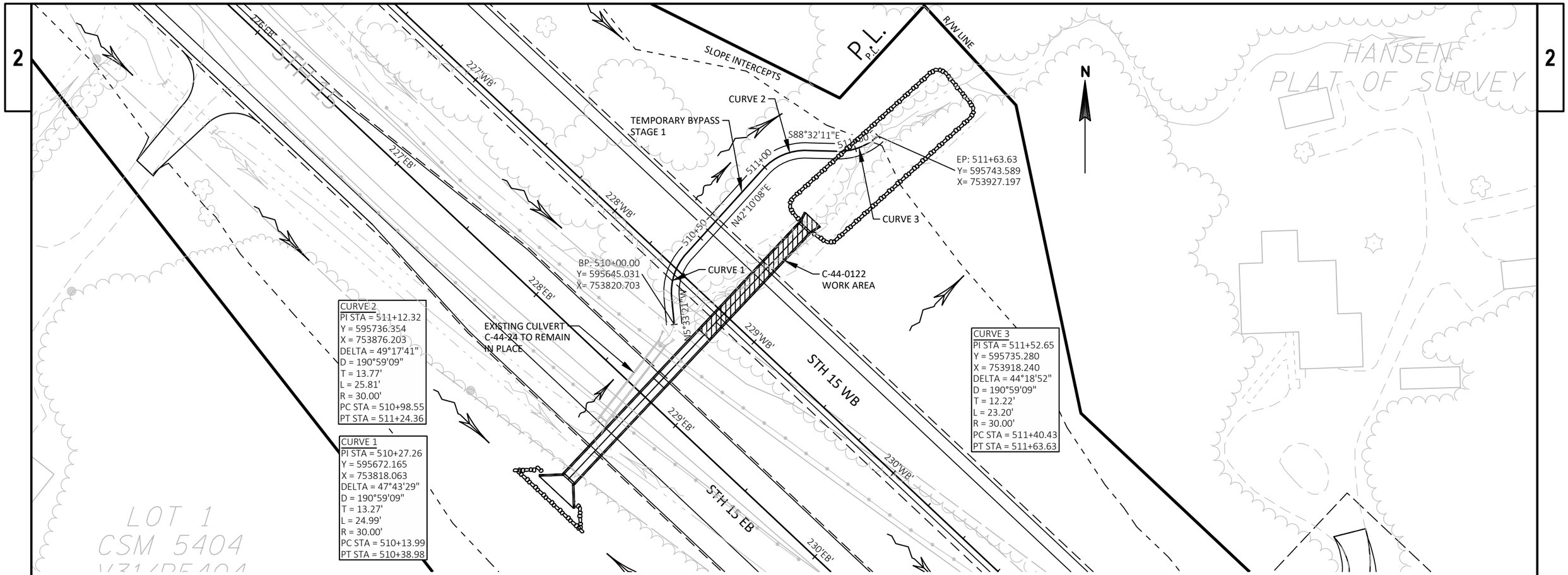
NOTES

THE TEMPORARY BYPASS CHANNEL MUST BE CAPABLE OF DIVERTING THE 2-YEAR RAINFALL EVENT STREAM FLOW. FISH AND AQUATIC SPECIES THAT BECOME STRANDED IN DEWATERED AREAS OR TEMPORARY CHANNELS SHOULD BE CAPTURED AND RETURNED TO THE ACTIVE CHANNEL IMMEDIATELY. SEE STRUCTURE PLANS FOR HYDRAULIC INFORMATION.

SUBMIT A WATER DIVERSION PLAN TO THE ENGINEER IF CONTRACTOR CHOOSES A DIFFERENT METHOD THAN WHAT IS SHOWN IN THE SCHEMATIC.

APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

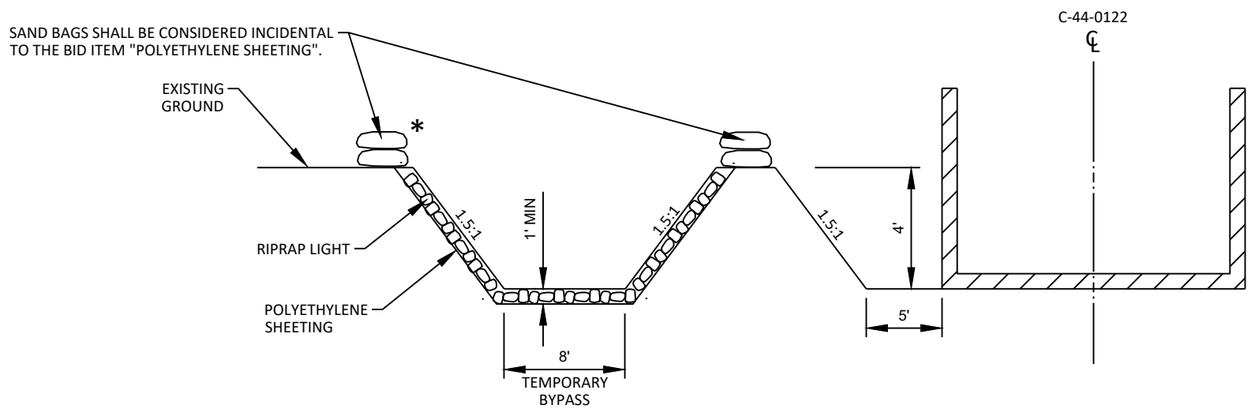
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	TEMPORARY BYPASS DETAILS (C-44-0121)	SHEET E



PLAN VIEW TEMPORARY BYPASS - STAGE 1

(1 INCH = 50 FT)

* EDGES OF CHANNEL LINER SHALL BE TRENCHED AND SECURED BY SAND BAGS.



TYPICAL SECTION TEMPORARY BYPASS

(1 INCH = 10 FT)

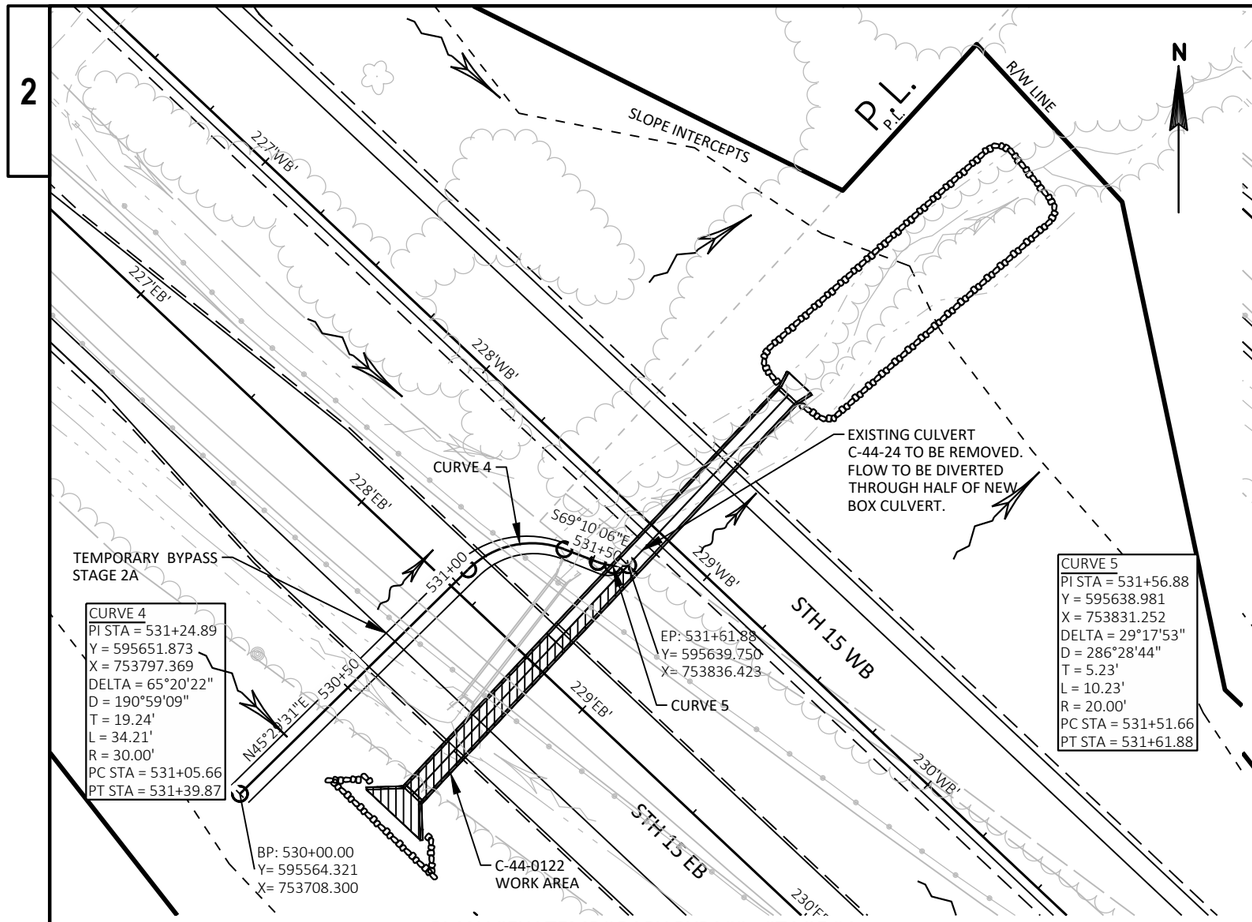
NOTES

THE TEMPORARY BYPASS CHANNEL MUST BE CAPABLE OF DIVERTING THE 2-YEAR RAINFALL EVENT STREAM FLOW, FISH AND AQUATIC SPECIES THAT BECOME STRANDED IN DEWATERED AREAS OR TEMPORARY CHANNELS SHOULD BE CAPTURED AND RETURNED TO THE ACTIVE CHANNEL IMMEDIATELY, SEE STRUCTURE PLANS FOR HYDRAULIC INFORMATION.

SUBMIT A WATER DIVERSION PLAN TO THE ENGINEER IF CONTRACTOR CHOOSES A DIFFERENT METHOD THAN WHAT IS SHOWN IN THE SCHEMATIC.

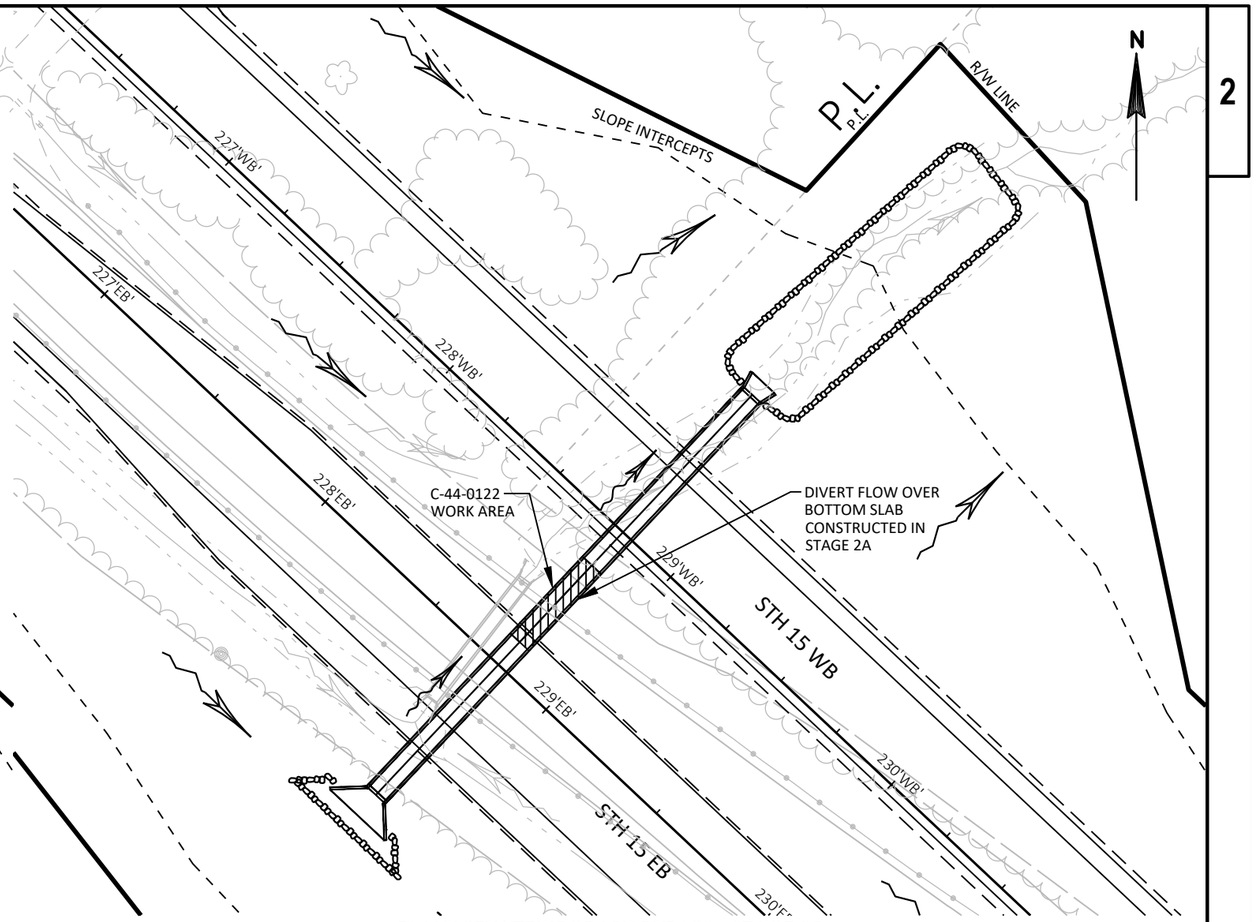
APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	TEMPORARY BYPASS DETAILS (C-44-0122)	SHEET E



PLAN VIEW TEMPORARY BYPASS - STAGE 2A

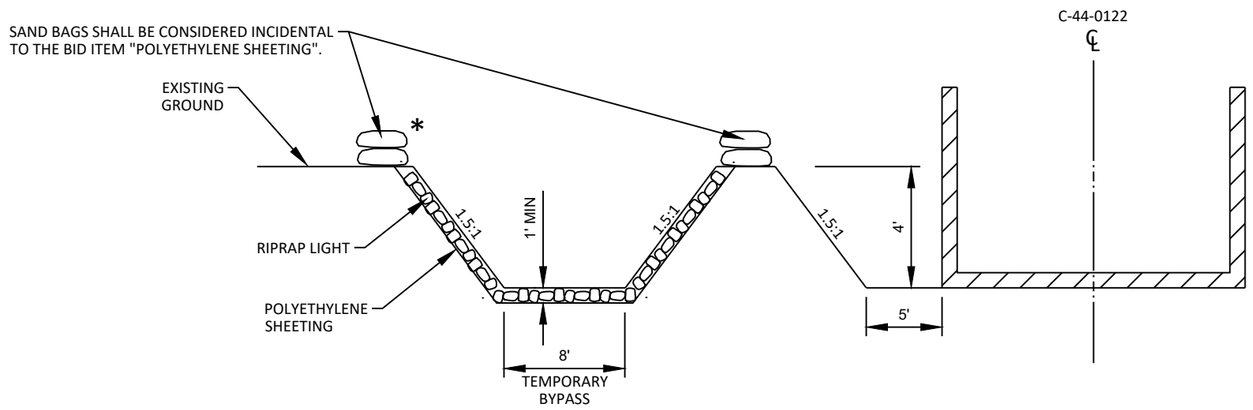
(1 INCH = 50 FT)



PLAN VIEW TEMPORARY BYPASS - STAGE 2B

(1 INCH = 50 FT)

*EDGES OF CHANNEL LINER SHALL BE TRENCHED AND SECURED BY SAND BAGS.



TYPICAL SECTION TEMPORARY BYPASS

(1 INCH = 10 FT)

NOTES

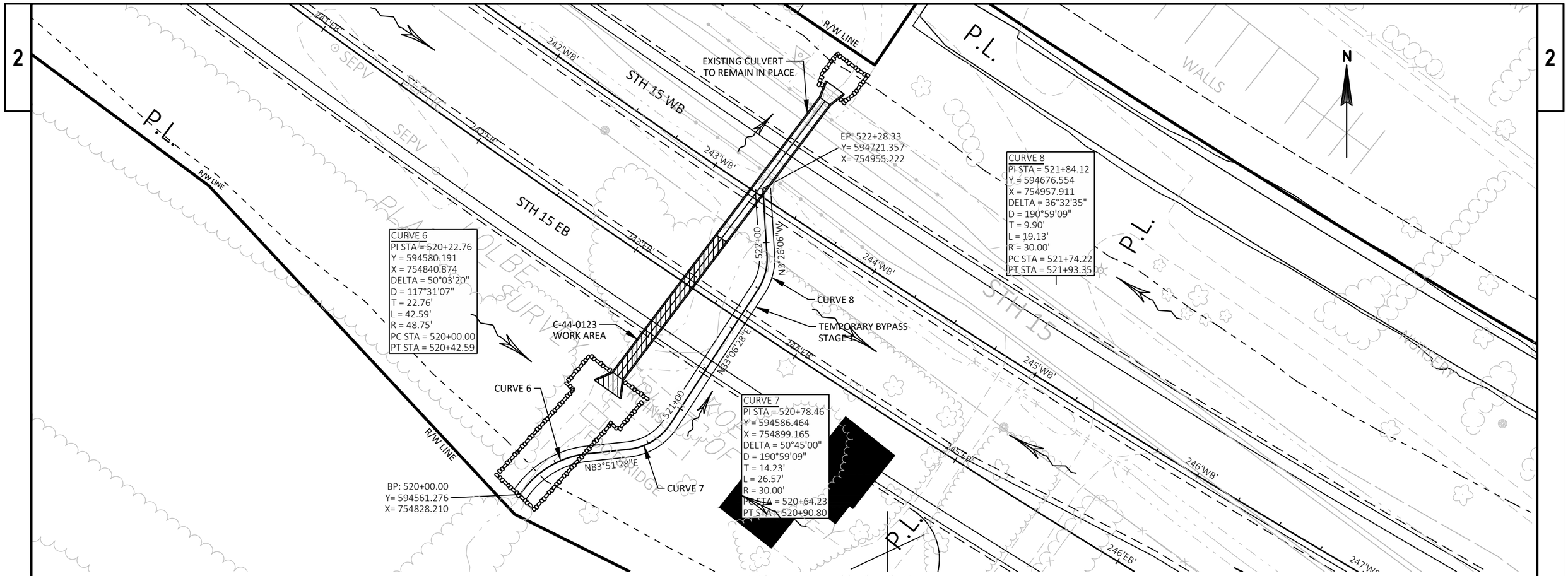
THE TEMPORARY BYPASS CHANNEL MUST BE CAPABLE OF DIVERTING THE 2-YEAR RAINFALL EVENT STREAM FLOW. FISH AND AQUATIC SPECIES THAT BECOME STRANDED IN DEWATERED AREAS OR TEMPORARY CHANNELS SHOULD BE CAPTURED AND RETURNED TO THE ACTIVE CHANNEL IMMEDIATELY. SEE STRUCTURE PLANS FOR HYDRAULIC INFORMATION.

SUBMIT A WATER DIVERSION PLAN TO THE ENGINEER IF CONTRACTOR CHOOSES A DIFFERENT METHOD THAN WHAT IS SHOWN IN THE SCHEMATIC.

APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	TEMPORARY BYPASS DETAILS (C-44-0122)	SHEET E

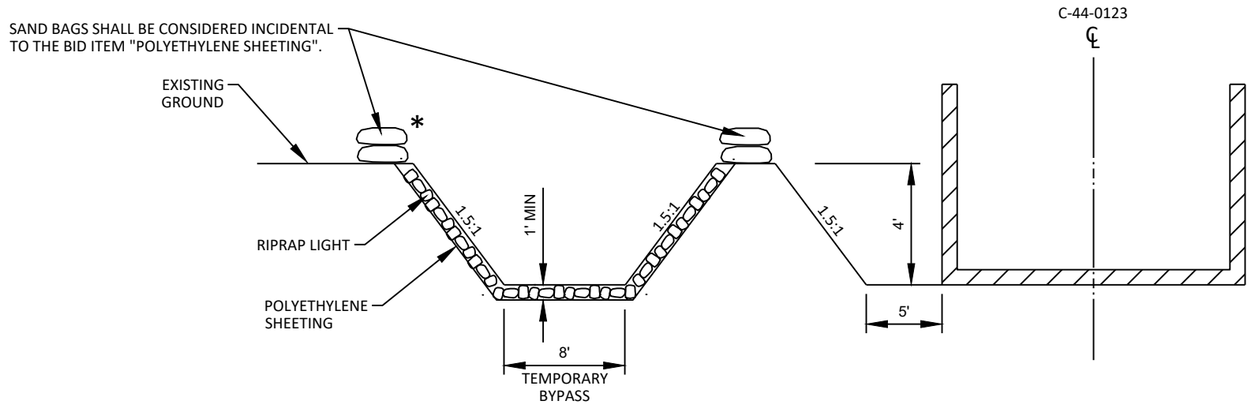
FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021010_CD.DWG
LAYOUT NAME - 021012_cd
PLOT DATE : 10/22/2019 1:39 PM
PLOT BY : MARTIN, THOMAS S
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42



PLAN VIEW TEMPORARY BYPASS - STAGE 1

(1 INCH = 50 FT)

* EDGES OF CHANNEL LINER SHALL BE TRENCHED AND SECURED BY SAND BAGS.



TYPICAL SECTION TEMPORARY BYPASS

(1 INCH = 10 FT)

NOTES

THE TEMPORARY BYPASS CHANNEL MUST BE CAPABLE OF DIVERTING THE 2-YEAR RAINFALL EVENT STREAM FLOW, FISH AND AQUATIC SPECIES THAT BECOME STRANDED IN DEWATERED AREAS OR TEMPORARY CHANNELS SHOULD BE CAPTURED AND RETURNED TO THE ACTIVE CHANNEL IMMEDIATELY, SEE STRUCTURE PLANS FOR HYDRAULIC INFORMATION.

SUBMIT A WATER DIVERSION PLAN TO THE ENGINEER IF CONTRACTOR CHOOSES A DIFFERENT METHOD THAN WHAT IS SHOWN IN THE SCHEMATIC.

APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	TEMPORARY BYPASS DETAILS (C-44-0123)	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021011_CD.DWG
LAYOUT NAME - 021013_cd

PLOT DATE : 10/22/2019 1:40 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE :

EP: 541+84.66
Y= 594821.721
X= 755005.799

N22°13'18"W
05'TPS
R/W LINE
P.L.
C-44-0123
WORK AREA
CURVE 11
541+00
N36°52'02"E
TEMPORARY BYPASS
STAGE 2
242'WB'
STH 15 WB
240'EB'
243'WB'
BP: 540+00.00
Y= 594697.216
X= 754935.325
STH 15 EB
243'EB'
540+50
86°23'04"E
CURVE 9
CURVE 10
244'WB'
EXISTING CULVERT
TO BE REMOVED.
FLOW TO BE DIVERTED
THROUGH HALF OF NEW
BOX CULVERT.
STH 15
241'EB'
245'WB'
245'EB'
R/W LINE

CURVE 9
PI STA = 540+08.18
Y = 594701.801
X = 754942.055
DELTA = 30°29'36"
D = 190°59'09"
T = 8.18'
L = 15.97'
R = 30.00'
PC STA = 540+00.00
PT STA = 540+15.97

CURVE 11
PI STA = 541+22.87
Y = 594761.683
X = 755030.327
DELTA = 59°05'20"
D = 190°59'09"
T = 17.00'
L = 30.94'
R = 30.00'
PC STA = 541+05.87
PT STA = 541+36.81

CURVE 10
PI STA = 540+53.36
Y = 594704.675
X = 754987.574
DELTA = 49°31'02"
D = 190°59'09"
T = 13.84'
L = 25.93'
R = 30.00'
PC STA = 540+39.52
PT STA = 540+65.45

N

PLAN VIEW TEMPORARY BYPASS - STAGE 2A
(1 INCH = 50 FT)

R/W LINE
P.L.
242'WB'
STH 15 WB
240'EB'
243'WB'
STH 15 EB
243'EB'
DIVERT FLOW OVER BOTTOM
SLAB CONSTRUCTED IN STAGE 2A
C-44-0123
WORK AREA
244'WB'
241'EB'
245'WB'
STH 15
FOOTBRIDGE
245'EB'
R/W LINE

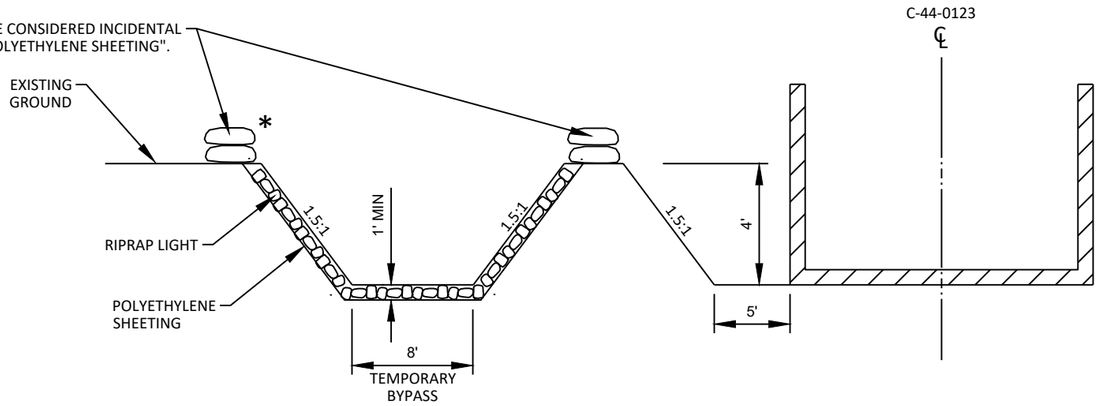
N

PLAN VIEW TEMPORARY BYPASS - STAGE 2B
(1 INCH = 50 FT)

2

*EDGES OF CHANNEL LINER SHALL BE TRENCHED AND SECURED BY SAND BAGS.

SAND BAGS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "POLYETHYLENE SHEETING".



TYPICAL SECTION TEMPORARY BYPASS
(1 INCH = 10 FT)

NOTES

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APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	TEMPORARY BYPASS DETAILS (C-44-0123)	SHEET E

2

CTH T EB

CTH T WB

EXCAVATION LIMITS FOR RAILROAD CROSSING SUB-GRADE IMPROVEMENT

RAILROAD TO INSTALL 1" SUPERELEVATION

STA 43'USH'+75.73, 16.9' LT

LIMIT OF PAVEMENT AND SHOULDER REPLACEMENT FOR RAILROAD CROSSING UNDERLAYMENT

CONNECT STORM SEWER TO EXISTING CULVERT

BEGIN TAPER
STA 42'USH'+66.41

BEGIN TAPER
STA 44'USH'+74.02

BEGIN TAPER
STA 44'USH'+84.81

USH 45 SB

USH 45 NB

HMA PAVEMENT

ONLY

TAPER 5:1

TAPER 10:1

TAPER 12.5:1

BEGIN TAPER
STA 42'USH'+82.47

BEGIN TAPER
STA 43'USH'+15.03

BEGIN TAPER
STA 44'USH'+35.74

14 PANEL (113.75 LF) CROSSING SURFACE BY RAILROAD

EXTEND CULVERT AND REPLACE ENDWALLS

EXCAVATION LIMITS FOR RAILROAD CROSSING SUB-GRADE IMPROVEMENT

41'USH' 42'USH' 43'USH' 44'USH' 45'USH' 46'USH'

PI: 40'USH'+63.85

PI: 42'USH'+86.69

12"S

12"

RR

R/W

SIGN

INL

HW

MH

GUY

1"IP

42.1'RRA'

42.2'RRA'

4.25'

5.32'

22'

30'

24'

12'

8'

2'

3'

15'

6'

APPROVED FOR DESIGN ACCURACY ADJUSTMENTS 2019

11"X29.5"PRPCHE

LEGEND

1 27.6' GATE	FLASHING LIGHT SIGNAL
2 32.6' GATE	MAST ARM
3 18.1' GATE	GATE
4 27.5' GATE	
5 16' CANTILEVER	ALL ITEMS WITHIN LEGEND TO BE INSTALLED BY RAILROAD
6 22' CANTILEVER	
7 TIP LIGHT CENTERED ON RIGHT EDGE OF RIGHT THRU LANE	

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	RAILROAD CROSSING - USH 45	SHEET E

PRE_29

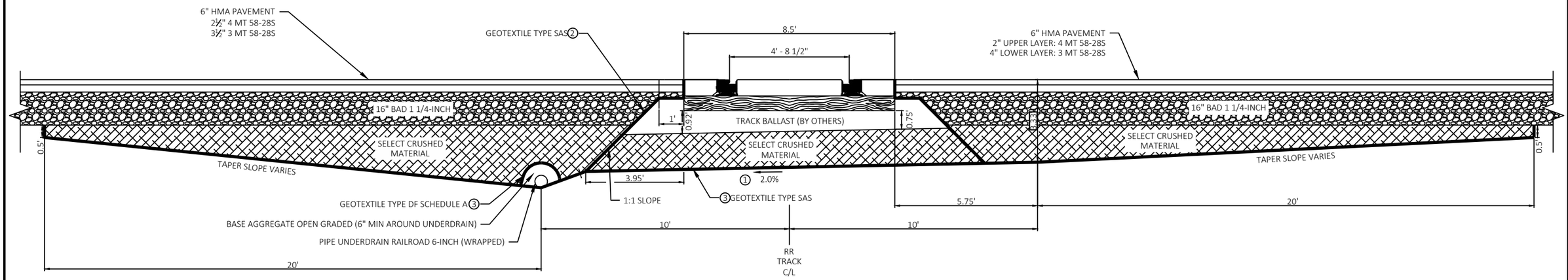
FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021013_CD.DWG
LAYOUT NAME - 021013_CD

PLOT DATE : 10/22/2019 1:42 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

1. 2% CROSS SLOPE REQUIRED ON THE SELECT CRUSHED MATERIAL. SLOPE IS CONTINUOUS AND DOES NOT CROWN AT THE TRACK CENTERLINE.
2. GEOTEXTILE TYPE SAS PLACED IN ORDER TO PROVIDE SEPARATION BETWEEN ROADWAY BASE COURSE AND TRACK BALLAST.
3. GEOTEXTILE TYPE SAS PLACED TO PROVIDE SEPARATION UNDER THE UNDERDRAIN. GEOTEXTILE TYPE DF SCHEDULE A AND BASE AGGREGATE OPEN GRADED PLACED TO PROVIDE 6 INCHES OF SEPARATION BETWEEN TOP OF UNDERDRAIN AND SELECT CRUSHED MATERIAL.



APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

2

STA 419'RRA'+25.30, 10.35' RT
INVERT = 766.74

STA 419'RRA'+25.00, 10.00' LT
BOTTOM OF SELECT CRUSHED
MATERIAL ELEVATION = 767.21

STA 419'RRA'+48.12, 9.98' RT
INVERT = 766.63

PIPE UNDERDRAIN RAILROAD
6-INCH PERFORATED
SLOPED AT 0.50%

STA 419'RRA'+50.00, 10.00' LT
BOTTOM OF SELECT CRUSHED
MATERIAL ELEVATION = 767.03

STA 419'RRA'+75.00, 10.00' LT
BOTTOM OF SELECT CRUSHED
MATERIAL ELEVATION = 766.92

SIGN

45 NB

43'USH'

44'USH'

45'USH'

STA 420'RRA'+00.00, 10.00' LT
BOTTOM OF SELECT CRUSHED
MATERIAL ELEVATION = 767.39

STA 420'RRA'+16.71, 9.70' RT
INVERT = 766.29

STA 420'RRA'+25.00, 10.00' LT
BOTTOM OF SELECT CRUSHED
MATERIAL ELEVATION = 767.22

STA 420'RRA'+50.00, 10.01' RT
INVERT = 766.17

STA 420'RRA'+50.00, 10.00' LT
BOTTOM OF SELECT CRUSHED
MATERIAL ELEVATION = 767.20

STA 420'RRA'+68.21, 10.30' RT
INVERT = 766.08
30° ANGLE

STA 420'RRA'+86.30, 21.42' LT
INVERT = 765.97

STA 420'RRA'+72.71, 10.00' LT
BOTTOM OF SELECT CRUSHED
MATERIAL ELEVATION = 767.17

STA 420'RRA'+71.70, 10.00' RT
BOTTOM OF SELECT CRUSHED
MATERIAL ELEVATION = 766.77

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	RAILROAD CROSSING - USH 45 - SUBGRADE IMPROVEMENT	SHEET E

PRE_31

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021014_CD.DWG
LAYOUT NAME - 021017_cd
PLOT DATE : 10/22/2019 1:43 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42

2

2

RIPRAP

GUY

INL

USH 45

30'USH'

32'USH'

34'USH'

36'USH'

SIGN

33'USH'+65.96
26.73' RT

34'USH'+18.66
32.00' RT

12'

8'

2'

39'USH'+44.21
-32.20' LT

39'USH'+44.40
-23.95' LT

40'USH'+65.64
-12.00' LT

40'USH'+65.64
0.00' LT

100'EB'

100'WB'

38'USH'

40'USH'

42'USH'

44'USH'

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

CONCRETE CURB & GUTTER
6-INCH SLOPED 30-INCH TYPE J (TYP)

37'USH'+65.26
24.00' RT

37'USH'+98.80
32.00' RT

38'USH'+45.26
40.00' RT

R55'

R60'

101'EB'+80.22
36.00' RT

101'EB'+90.22

100'WB'+80.09
-40.84' LT

40'USH'+65.07
36.00' RT

41'USH'+21.07
32.00' RT

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	INTERSECTION DETAILS - USH 45	SHEET E

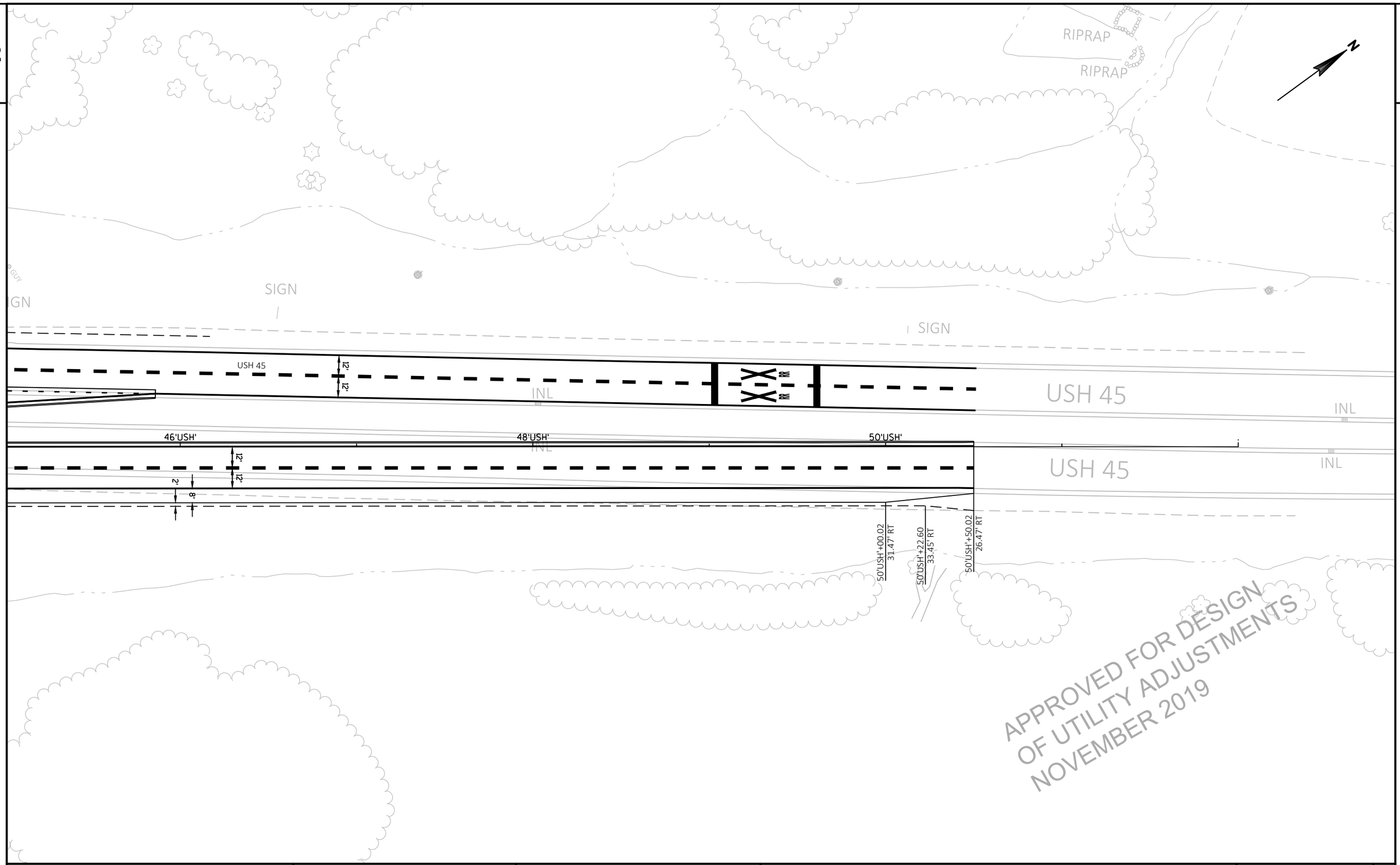
PRE_32

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021101_ID.DWG
LAYOUT NAME - 021101_IDA

PLOT DATE : 11/11/2019 12:57 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

2



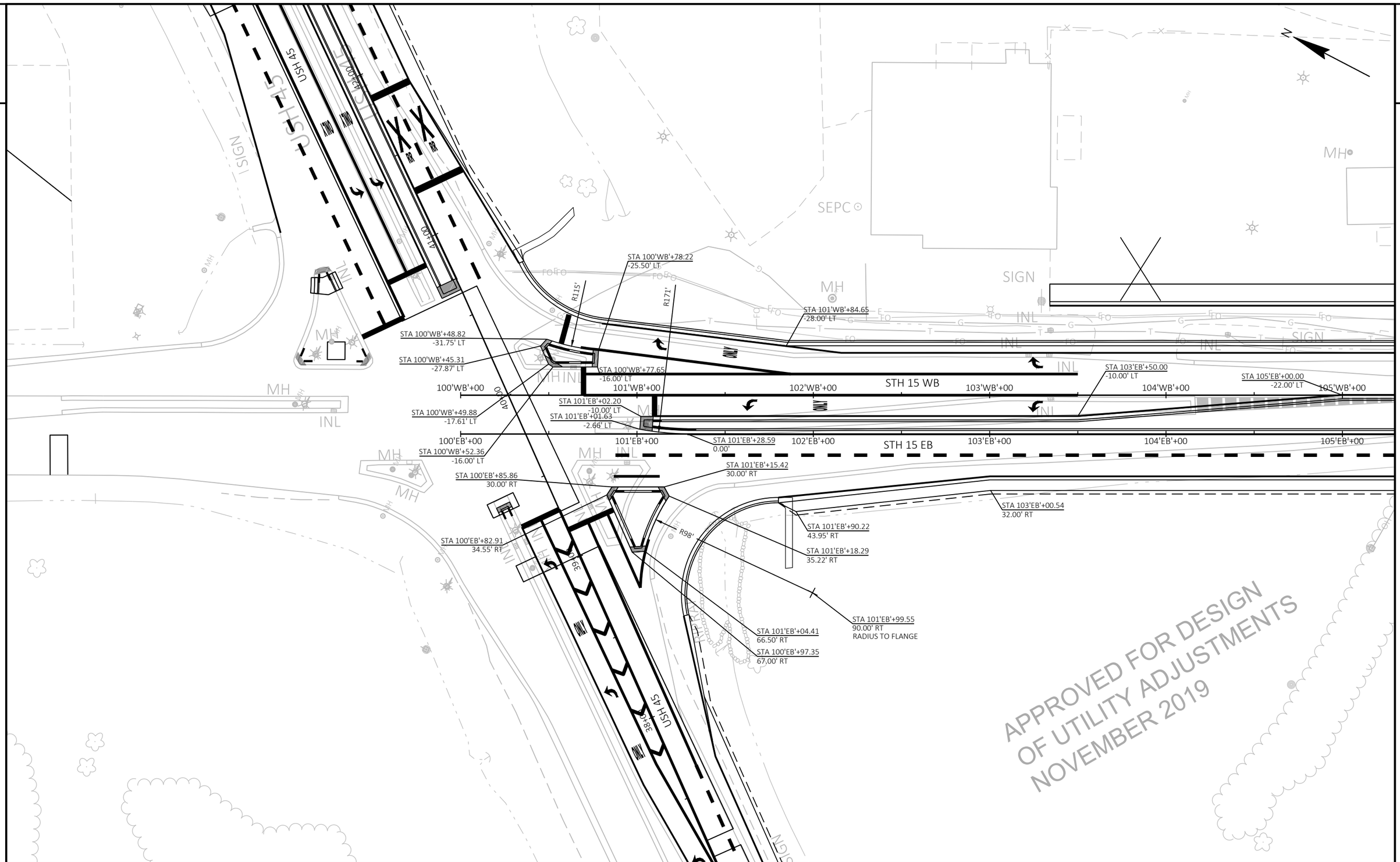
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	INTERSECTION DETAILS - USH 45	SHEET E

PRE_33

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021101_ID.DWG
LAYOUT NAME - 021102-ID

PLOT DATE : 11/11/2019 12:58 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:50 FT

2



PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	INTERSECTION DETAILS - STH 15 & USH 45	SHEET E

PRE_34

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021105_ID.DWG
LAYOUT NAME - 021103_id

PLOT DATE : 11/11/2019 12:58 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

2

RUINS

WELL

SIGN

SIGN

SIGN

STH 15

STH 15 WB

STH 15 EB

106'WB'+00

107'WB'+00

108'WB'+00

109'WB'+00

110'WB'+00

111'WB'+00

112'WB'+00

113'WB'+00

STA 108'EB'+63.99
-22.17' LT

R80'

STA 109'WB'+60.82
4.00' RT

STA 109'WB'+58.95
11.66' RT

STA 109'WB'+98.67
22.64' RT

106'EB'+00

107'EB'+00

108'EB'+00

109'EB'+00

110'EB'+00

111'EB'+00

112'EB'+00

113'EB'+00

STA 106'EB'+09.00
0.00'

STA 107'EB'+59.00
-12.00' LT

STA 108'EB'+63.99
-12.17' LT

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	INTERSECTION DETAILS - MEDIAN OPENING	SHEET E

PRE_35

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021105_ID.DWG
LAYOUT NAME - 021104_id

PLOT DATE : 11/11/2019 12:59 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

2

STA 22'RVR'+26.00
-11.00' LT

STA 22'RVR'+26.00
11.00' RT

11'

11'

R261'

22+00

R287'

STA 21'RVR'+46.00
-14.56' LT

15'

STA 21'RVR'+58.50
20.76' RT

STA 21'RVR'+56.00
15.00' RT

STA 21'RVR'+36.00
-18.00' LT

15'

RIVER ROAD

R60'

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

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

R40'

STA 122'WB'+23.90
-39.00' LT

STA 122'WB'+33.90
-38.00' LT

STA 120'WB'+93.90
-36.00' LT

STA 120'WB'+47.24
-32.00' LT

21+00

STA 120'WB'+58.90
5.40' RT

R186'

STH 15 WB

118'WB'+00

119'WB'+00

120'WB'+00

121'WB'+00

122'WB'+00

123'WB'+00

124'WB'+00

125'WB'+00

STA 121'WB'+77.60
30.52' RT

STA 120'WB'+18.90
3.00' RT

STA 120'WB'+68.90
9.00' RT

STA 121'WB'+12.34
18.70' RT

STA 120'WB'+38.90
34.00' RT

STA 121'WB'+11.67
25.14' RT

R80'

STA 122'WB'+38.90
14.00' RT

STA 122'WB'+28.90
12.00' RT

STA 122'WB'+38.90
54.60' RT

STA 122'WB'+28.90
54.00' RT

STA 122'WB'+78.90
57.00' RT

STA 120'WB'+48.90
36.00' RT

STA 121'WB'+77.60
35.48' RT

R80'

STH 15 EB

118'EB'+00

119'EB'+00

120'EB'+00

121'EB'+00

122'EB'+00

123'EB'+00

124'EB'+00

125'EB'+00

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

STA 121'EB'+48.00=
STA 20'RVR'+00.00
TYPE B1 MODIFIED INTERSECTION

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

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	INTERSECTION DETAILS - RIVER ROAD	SHEET E

PRE_36

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021105_ID.DWG
LAYOUT NAME - 021105_id

PLOT DATE : 11/11/2019 12:59 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

2

STH 147'WB'+52.30
STA 30'CRS'+04.57
TYPE "B1" MODIFIED INTERSECTION

144'WB'+00
145'WB'+00
STH 15 WB
146'WB'+00
147'WB'+00
148'WB'+00
149'WB'+00
150'WB'+00
151'WB'+00

STA 146'WB'+35.42
3.00' RT
STA 146'WB'+75.52
6.00' RT
STA 146'WB'+65.55
5.18' RT
STA 146'WB'+61.23
46.00' RT
STA 146'WB'+71.01
48.00' RT

STA 147'WB'+91.09
35.16' RT
STA 147'WB'+23.87
23.18' RT
STA 147'WB'+23.94
28.12' RT
STA 147'WB'+90.56
41.61' RT

STA 148'WB'+51.14
24.00' RT
STA 148'WB'+61.02
26.00' RT
STA 148'WB'+91.27
57.00' RT
STA 148'WB'+43.09
54.39' RT
STA 148'WB'+33.36
54.00' RT

R80'
R80'
R80'
R186'
R60'
R40'

30+00
29+00
28+00

144'EB'+00
145'EB'+00
STH 15 EB
146'EB'+00
147'EB'+00
148'EB'+00
149'EB'+00
150'EB'+00
151'EB'+00

12'
12'
12'
12'
1'
2'
3'
2'

STA 143'EB'+47.37
36.00' RT
STA 146'EB'+93.42
36.00' RT
STA 148'EB'+66.80
32.00' RT
STA 148'EB'+18.24
36.00' RT

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

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

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

STH 15

CROSS ROAD

15'
15'
3'
6'
6'

STA 28'CRS'+49.85
-15.00' LT
STA 28'CRS'+69.27
15.00' RT
STA 27'CRS'+89.85
-12.00' LT
STA 27'CRS'+89.85
12.00' RT

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	INTERSECTION DETAILS - CROSS ROAD	SHEET E

PRE_37

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021105_ID.DWG
LAYOUT NAME - 021106_id

PLOT DATE : 11/11/2019 1:00 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

N

22'CRS'

24'CRS'

12'

12'

12'

1'

2'

23'CRS'+18.09
23.81' RT

CROSS RD

25'CRS'+02.81
23.91' RT

25'CRS'+12.53
23.91' RT

R60'

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

49'LED'+18.96
-15.00' LT

15'

3'

LEDGE HILL ROAD

48'LED'+48.97
-11.00' LT

11'

11'

48'LED'+48.95
11.00' RT

4'

4'

48'LED'

STA 25'CRS'+80.90 =
STA 50'LED'+00.00
TYPE "B2" MODIFIED INTERSECTION

26'CRS'

50'LED'

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

15'

49'LED'+37.96
15.00' RT

49'LED'+27.96
15.00' RT

3'

26'CRS'+31.93
23.98' RT

R40'

24'

3'

27'CRS'+89.97
-12.00' LT

28'CRS'

28'CRS'+49.97
-15.00' LT

CROSS ROAD

27'CRS'+31.44
12.00' RT

9'

27'CRS'+89.97
12.00' RT

28'CRS'+59.38
14.62' RT

28'CRS'+69.38
15.00' RT

146'EB'+83.60
38.00' RT

146'EB'+93.42
36.00' RT

146'EB'

ONLY

148'EB'+18.24
36.00' RT

148'EB'+66.80
32.00' RT

148'EB'

150'EB'

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

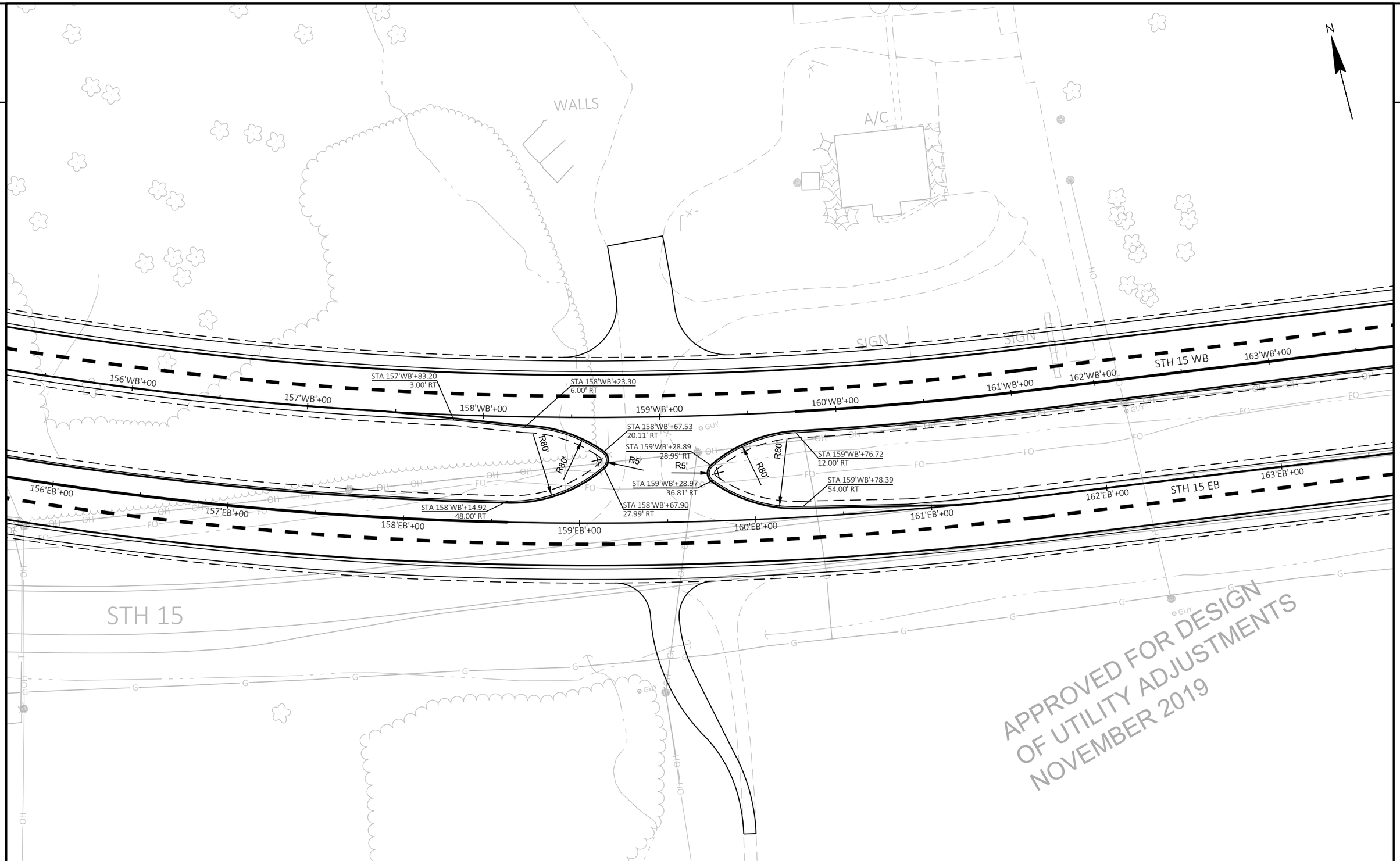
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	INTERSECTION DETAILS - LEDGE HILL ROAD	SHEET E

PRE_38

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021101_ID.DWG
LAYOUT NAME - 021107_ID

PLOT DATE : 11/11/2019 1:00 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:50 FT

2



PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	INTERSECTION DETAILS - MEDIAN OPENING	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021105_ID.DWG
LAYOUT NAME - 021108_id

PLOT DATE : 11/11/2019 1:01 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

N

PIER

STA 190'WB'+76.33
3.00' RT

STA 191'WB'+26.33
6.00' RT

189'WB'+00

STH 15 WB

190'WB'+00

191'WB'+00

192'WB'+00

193'WB'+00

194'WB'+00

195'WB'+00

196'WB

STA 191'WB'+75.72
23.07' RT

STA 192'WB'+36.94
29.07' RT

R80'

R80'

R5'

R5'

SIGN

STA 192'WB'+86.33
12.00' RT

R80'

R80'

STA 191'WB'+26.33
48.00' RT

STA 192'WB'+36.94
36.93' RT

STA 191'WB'+75.72
30.93' RT

STA 192'WB'+86.33
54.00' RT

STA 193'WB'+36.33
57.00' RT

189'EB'+00

STH 15 EB

190'EB'+00

191'EB'+00

192'EB'+00

193'EB'+00

194'EB'+00

195'EB'+00

196'EB

OH

FO

GUY

SIGN
POSTS

TOOT

FLAG
FLAG

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	INTERSECTION DETAILS - MEDIAN OPENING	SHEET E

PRE_40

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021105_ID.DWG
LAYOUT NAME - 021109_id

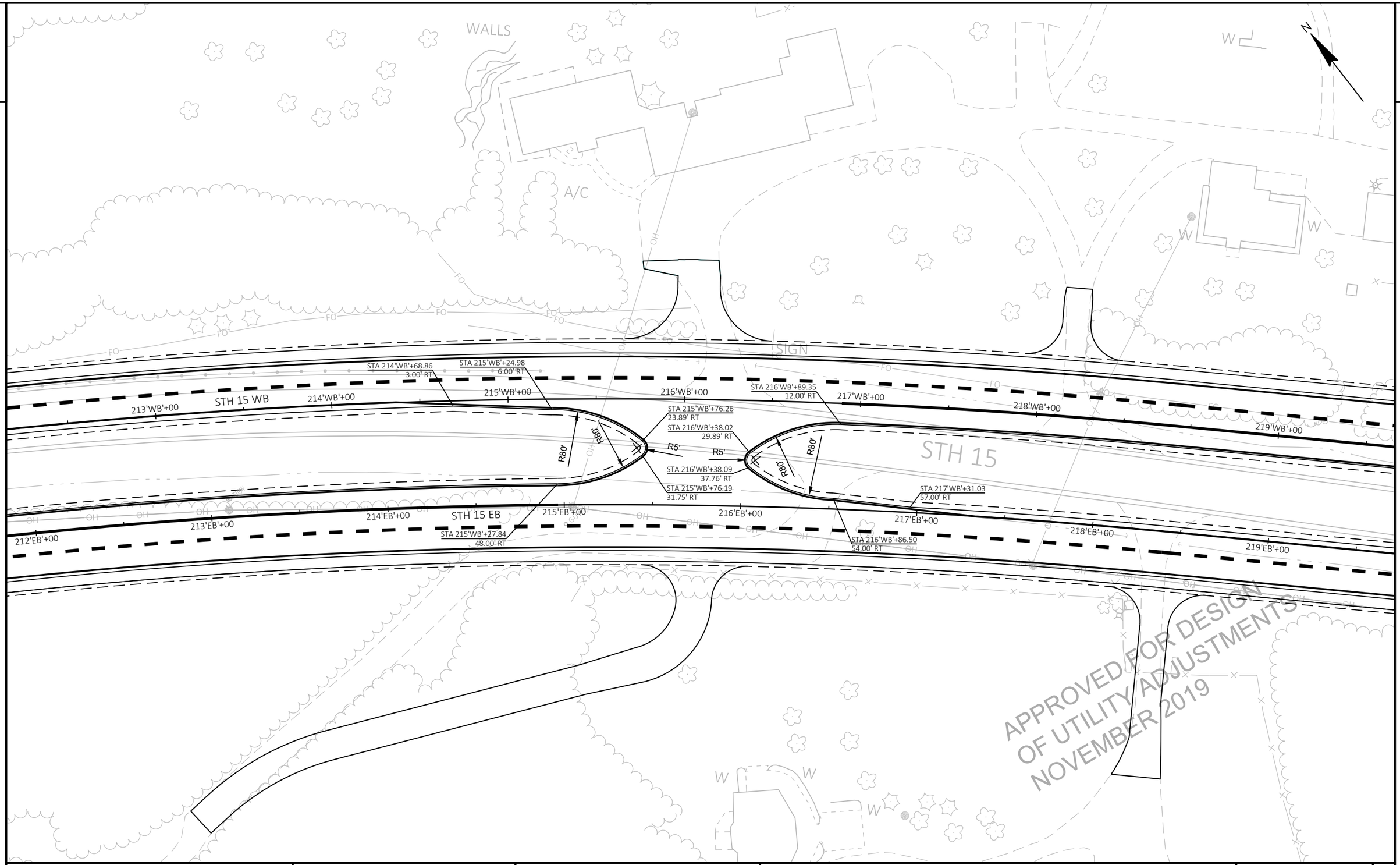
PLOT DATE : 11/11/2019 1:01 PM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:50 FT

2



PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	INTERSECTION DETAILS - MEDIAN OPENING	SHEET E

PRE_41

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021105_ID.DWG
LAYOUT NAME - 021110_id

PLOT DATE : 11/11/2019 1:01 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

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

STA 232'EB'+15.88=
STA 19'KLY'+40.00
TYPE B1 MODIFIED INTERSECTION

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

STA 230'WB'+84.89
3.00' RT

STA 231'WB'+34.89
6.00' RT

229'WB'+00

STH 15 WB

230'WB'+00

231'WB'+00

232'WB'+00

233'WB'+00

STA 233'WB'+16.05
24.00' RT

234'WB'+00

235'WB'+00

236'WB'

STH 15

STA 231'WB'+24.89
5.40' RT

STA 232'WB'+53.29
34.86' RT

STA 231'WB'+30.42
48.00' RT

STA 231'WB'+20.42
46.00' RT

R80'

R80'

STA 231'WB'+83.77
22.59' RT

STA 231'WB'+83.96
27.53' RT

STA 232'WB'+52.62
41.30' RT

R80'

STA 233'WB'+26.05
26.00' RT

STA 233'WB'+06.05
54.59' RT

STA 233'WB'+47.16
57.00' RT

229'EB'+00

STH 15 EB

230'EB'+00

231'EB'+00

232'EB'+00

233'EB'+00

234'EB'+00

235'EB'+00

236'EB'+

R186'

STA 232'WB'+96.05
54.00' RT

STA 231'EB'+27.85
38.00' RT

STA 231'EB'+37.85
36.00' RT

R60'

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

19+00

KELLY DRIVE

15'

15'

R40'

STA 232'EB'+70.68
36.00' RT

STA 233'EB'+17.35
32.00' RT

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

STA 18'KLY'+66.60
15.00' RT

STA 18'KLY'+57.11
14.64' RT

FLAG

STA 18'KLY'+30.37
-15.00' LT

18+00

R288'

R260'

R264'

R286'

STA 17'KLY'+60.42
-11.00' LT

STA 17'KLY'+40.36
-11.00' LT

STA 17'KLY'+60.42
11.00' RT

STA 17'KLY'+40.36
11.00' RT

11'

11'

17+00

2'

2'

KELLY DR

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	INTERSECTION DETAILS - KELLY DRIVE	SHEET E

PRE_42

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021105_ID.DWG
LAYOUT NAME - 021111_id

PLOT DATE : 11/11/2019 1:02 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

2

N

NURSERY

NURSERY

GUY

STH 15 WB

247'WB'+00

248'WB'+00

249'WB'+00

250'WB'+00

251'WB'+00

252'WB'+00

253'WB'+00

254'WB'+00

STA 249'WB'+48.93
6.00' RT

STA 249'WB'+02.41
3.00' RT

STA 249'WB'+97.30
22.61' RT

STA 250'WB'+58.27
28.61' RT

STA 251'WB'+06.60
12.00' RT

R80'

R5'

R5'

R80'

R80'

STA 249'WB'+47.37
48.00' RT

STA 250'WB'+58.23
36.48' RT

STA 249'WB'+97.34
30.48' RT

STA 251'WB'+61.07
57.00' RT

STA 251'WB'+08.15
54.00' RT

247'EB'+00

248'EB'+00

249'EB'+00

250'EB'+00

251'EB'+00

252'EB'+00

STH 15 EB

253'EB'+00

254'EB'+00

STH 15

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	INTERSECTION DETAILS - MEDIAN OPENINGS	SHEET E

PRE_43

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021105_ID.DWG
LAYOUT NAME - 021112_id

PLOT DATE : 11/11/2019 1:02 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:50 FT

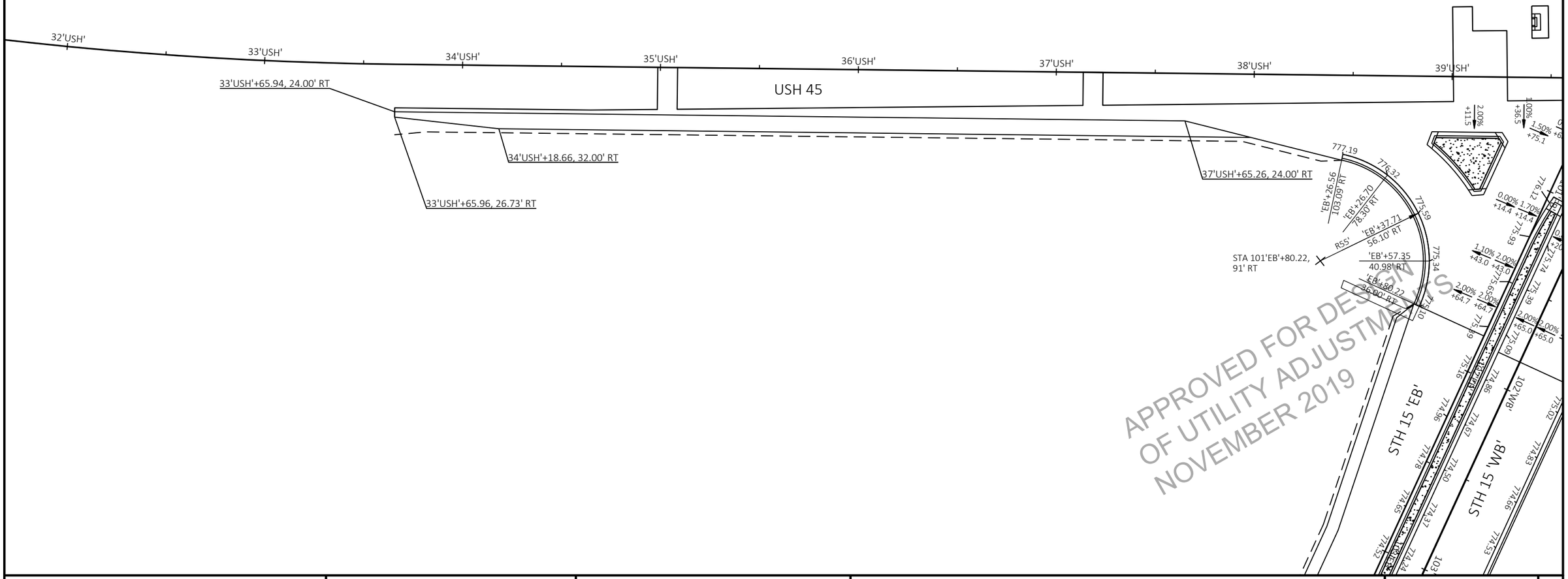
WISDOT/CADDS SHEET 42

2

LEGEND	
36" - 4D	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
36" - 6D	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
30" - 6J	CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
36" - 6A	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A
MSN1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
MSN2	CONCRETE MEDIAN SLOPED NOSE TYPE 2
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BAD	BASE AGGREGATE DENSE DRIVEWAYS AND FIELD ENTRANCES

DIMENSIONS AND RADII ARE TO CURB FLANGE LINE UNLESS OTHERWISE NOTED

SPOT ELEVATIONS ARE TO CURB FLANGE LINE



PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES - USH 45	SHEET E

PRE_44

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021209_PG.DWG
LAYOUT NAME - 021201_pg

PLOT DATE : 10/22/2019 4:26 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : ##########

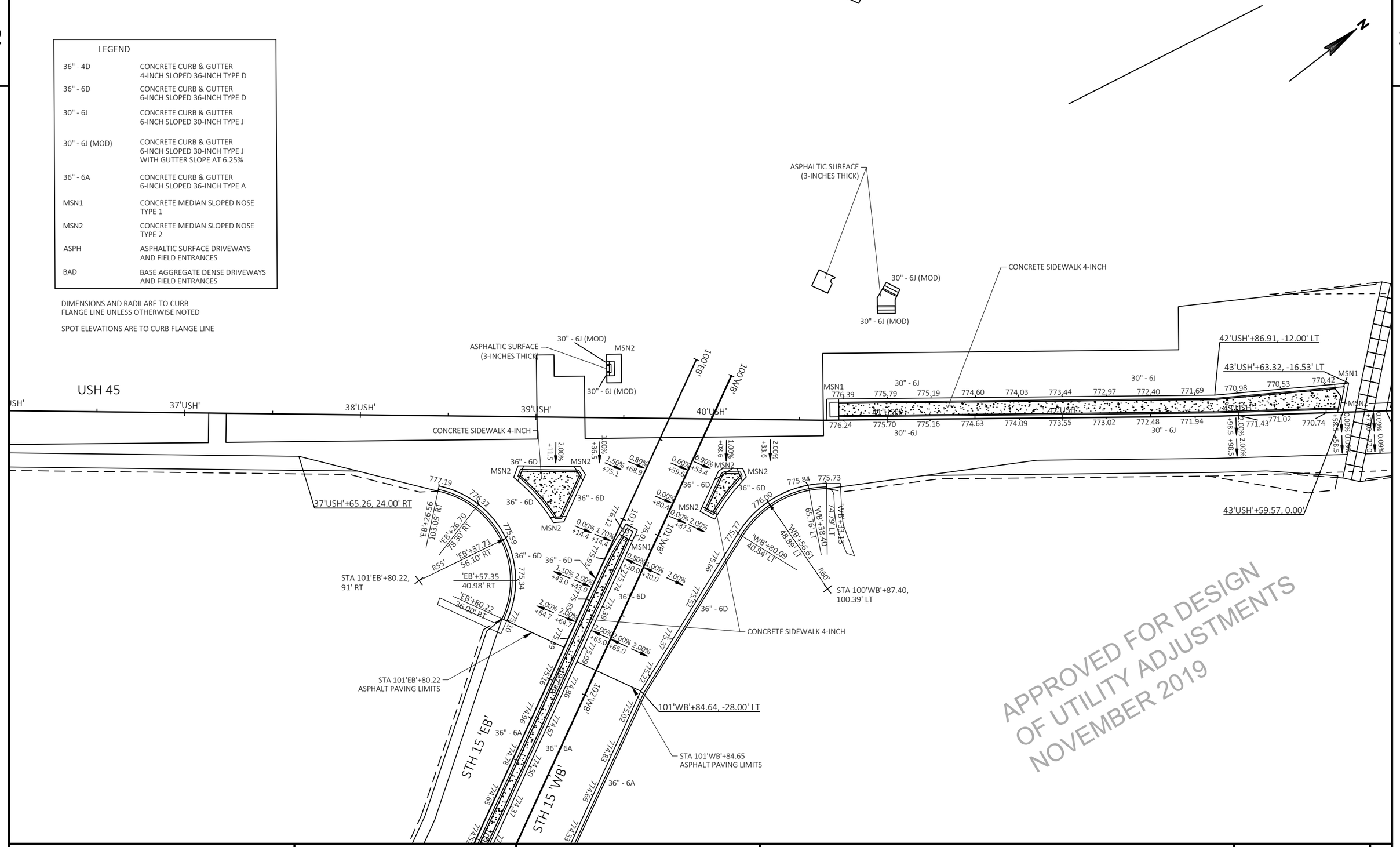
WISDOT/CADDS SHEET 42

2

LEGEND	
36" - 4D	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
36" - 6D	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
30" - 6J	CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
30" - 6J (MOD)	CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J WITH GUTTER SLOPE AT 6.25%
36" - 6A	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A
MSN1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
MSN2	CONCRETE MEDIAN SLOPED NOSE TYPE 2
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BAD	BASE AGGREGATE DENSE DRIVEWAYS AND FIELD ENTRANCES

DIMENSIONS AND RADII ARE TO CURB FLANGE LINE UNLESS OTHERWISE NOTED

SPOT ELEVATIONS ARE TO CURB FLANGE LINE



PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES - USH 45	SHEET E

PRE_45

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021209_PG.DWG
LAYOUT NAME - 021202_pg

PLOT DATE : 10/22/2019 4:26 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : ##########

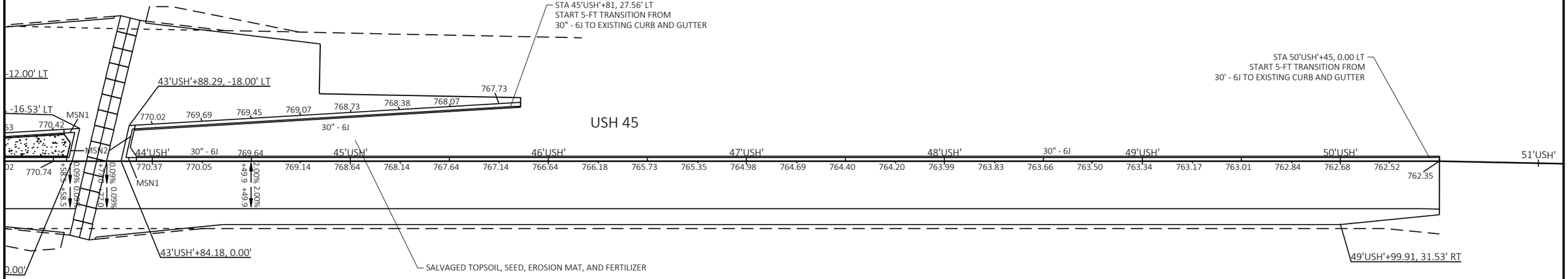
WISDOT/CADDS SHEET 42

2

LEGEND	
36" - 4D	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
36" - 6D	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
30" - 6J	CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
36" - 6A	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A
MSN1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
MSN2	CONCRETE MEDIAN SLOPED NOSE TYPE 2
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BAD	BASE AGGREGATE DENSE DRIVEWAYS AND FIELD ENTRANCES

DIMENSIONS AND RADII ARE TO CURB
FLANGE LINE UNLESS OTHERWISE NOTED

SPOT ELEVATIONS ARE TO CURB FLANGE LINE



APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES - USH 45	SHEET E

PRE_46

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021209_PG.DWG
LAYOUT NAME - 021203_pg
PLOT DATE : 10/22/2019 4:26 PM
PLOT BY : MARTIN, THOMAS S
PLOT NAME :
PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

2

LEGEND	
36" - 4D	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
36" - 6D	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
30" - 6J	CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
30" - D	CONCRETE CURB & GUTTER 30-INCH TYPE D
36" - 6A	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A
MSN1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
MSN2	CONCRETE MEDIAN SLOPED NOSE TYPE 2
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BAD	BASE AGGREGATE DENSE DRIVEWAYS AND FIELD ENTRANCES

DIMENSIONS AND RADII ARE TO CURB FLANGE LINE UNLESS OTHERWISE NOTED

SPOT ELEVATIONS ARE TO CURB FLANGE LINE

106'WB'+18.96, -186.93' LT
106'WB'+16.68, -163.02' LT
107'WB'+08.03, -157.61' LT
108'WB'+16.33, -175.24' LT
106'WB'+00.47, -310.81' LT
107'WB'+07.14, -142.64' LT
R15'
107'WB'+16.92, -131.27' LT
R214'
105'WB'+95.81, -96.93' LT
105'WB'+77.44, -63.00' LT
107'WB'+62.70, -129.71' LT
108'WB'+65.19, -133.82' LT
109'WB'+30.92, -63.41' LT
106'WB'+09.54, -97.00' LT
106'WB'+08.49, -73.00' LT
109'WB'+05.93, -68.65' LT
109'WB'+61.23, -64.00' LT
108'WB'+76.30, -64.00' LT
R30'
R30'
106'WB'+00.57, -73.00' LT
103'WB'+34.09, -63.00' LT
103'WB'+34.09, -53.00' LT
105'WB'+84.91, -53.00' LT
30" - D
772.95 773.04 773.19 773.33 773.48 773.62 773.77 773.91 774.06 774.20 774.40
101'WB'+84.64, -28.00' LT
36" - 6D
36" - 6A
775.02 774.83 774.66 774.53 774.40 774.32 774.25 774.22 774.21 774.23 774.27 774.35 774.44 774.57 774.72 774.90 775.11
STA 101'WB'+84.65
ASPHALT PAVING LIMITS
PC 10+11.16'WB'
STH 15 'WB'
103'WB'+50.00, 12.00' RT
102'WB' 103'WB' 104'WB' 105'WB' 106'WB' 107'WB' 108'WB' 109'WB'
36" - 6D 36" - 6A 36" - 6A 36" - 6D
774.86 774.67 774.50 774.37 774.24 774.16 774.09 774.10 774.13 774.19 774.27 774.39 774.52 774.65 774.80 774.98 775.18 775.40 775.62 775.84 776.06 776.28 776.49 776.71 776.93 777.15 777.37
MSN1
102'EB' 103'EB' 104'EB' 105'EB' 106'EB' 107'EB' 108'EB' 109'EB'
36" - A 36" - 6A 36" - 6D 36" - 6D
775.16 774.96 774.78 774.65 774.52 774.43 774.36 774.32 774.30 774.32 774.36 774.43 774.52 774.65 774.80 774.98 775.18 775.37 775.55 775.73 775.91 776.08 776.26 776.47 776.68 776.90 777.12
107'EB'+59.00, -12.00' LT
108'EB'+64.00, -12.00' LT
STH 15 'EB'
CONCRETE SIDEWALK 4-INCH
SALVAGED TOPSOIL, SEED, EROSION MAT AND FERTILIZER
106'EB'+09.00, 0.00'
CONCRETE SIDEWALK 4-INCH
H'+65.26, 24.00' RT

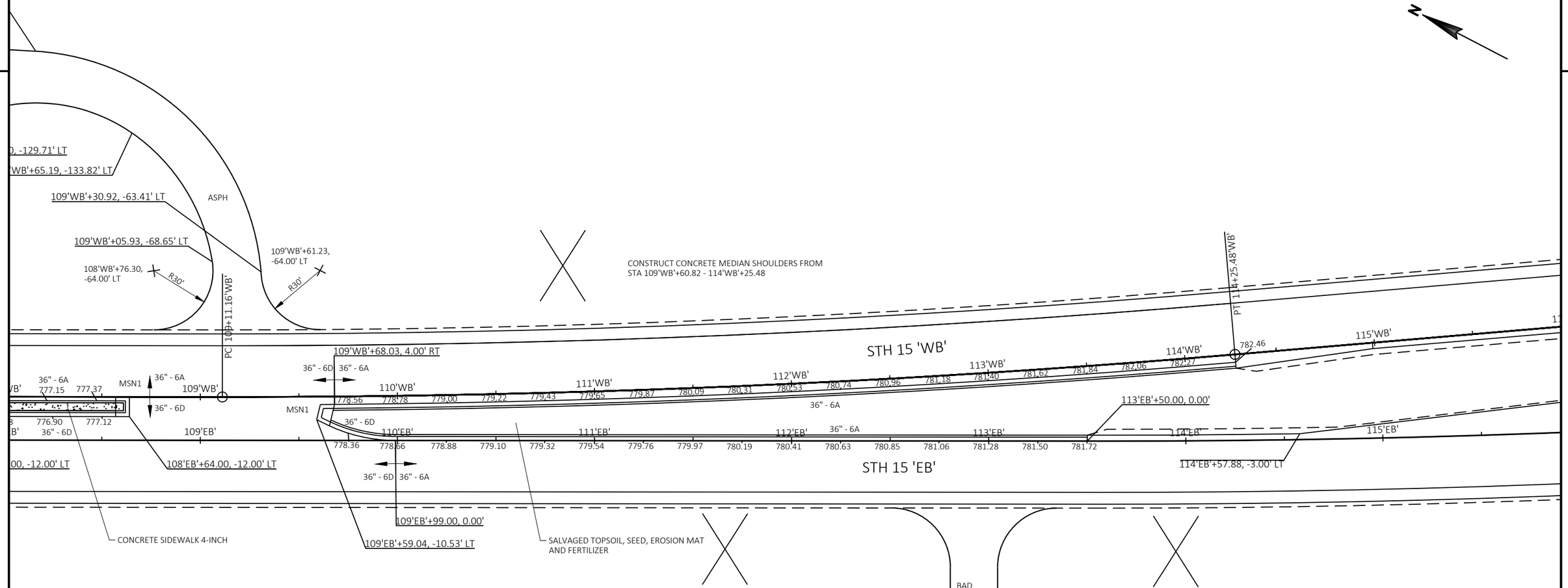
APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES - STH 15	SHEET E

PRE_47

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021209_PG.DWG
LAYOUT NAME - 021204_pg
PLOT DATE : 10/22/2019 4:26 PM
PLOT BY : MARTIN, THOMAS S
PLOT NAME :
PLOT SCALE : ##########

2



LEGEND	
36" - 4D	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
36" - 6D	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
30" - 6J	CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
36" - 6A	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A
MSN1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
MSN2	CONCRETE MEDIAN SLOPED NOSE TYPE 2
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BAD	BASE AGGREGATE DENSE DRIVEWAYS AND FIELD ENTRANCES

DIMENSIONS AND RADII ARE TO CURB FLANGE LINE UNLESS OTHERWISE NOTED

SPOT ELEVATIONS ARE TO CURB FLANGE LINE

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

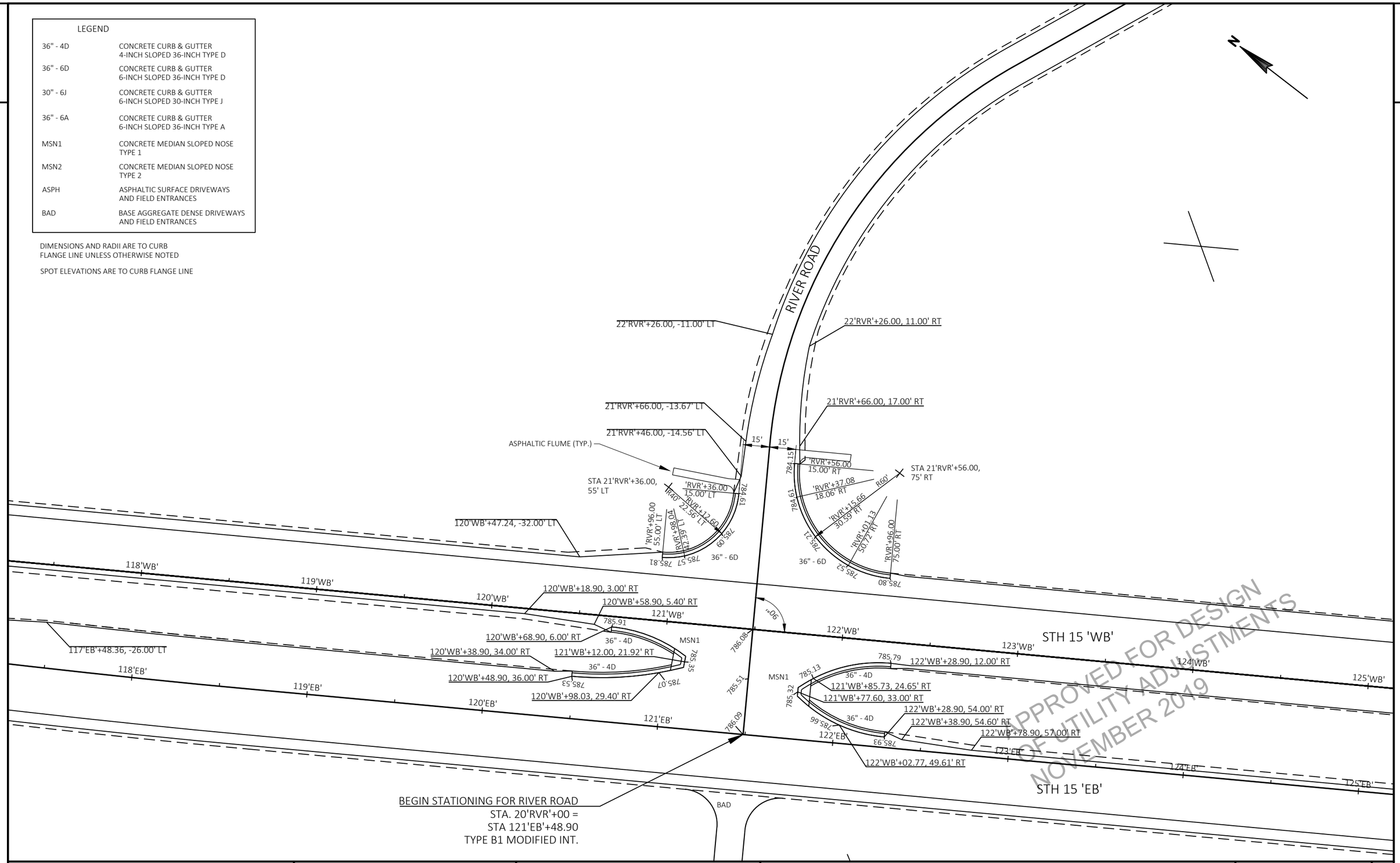
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES - STH 15	SHEET E

2

LEGEND	
36" - 4D	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
36" - 6D	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
30" - 6J	CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
36" - 6A	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A
MSN1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
MSN2	CONCRETE MEDIAN SLOPED NOSE TYPE 2
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BAD	BASE AGGREGATE DENSE DRIVEWAYS AND FIELD ENTRANCES

DIMENSIONS AND RADII ARE TO CURB FLANGE LINE UNLESS OTHERWISE NOTED

SPOT ELEVATIONS ARE TO CURB FLANGE LINE



PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES - STH 15 & RIVER ROAD INTERSECTION	SHEET E

PRE_49

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021209_PG.DWG
LAYOUT NAME - 021206_pg

PLOT DATE : 10/22/2019 4:26 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

2

2

LEGEND	
36" - 4D	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
36" - 6D	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
30" - 6J	CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
36" - 6A	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A
MSN1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
MSN2	CONCRETE MEDIAN SLOPED NOSE TYPE 2
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BAD	BASE AGGREGATE DENSE DRIVEWAYS AND FIELD ENTRANCES

DIMENSIONS AND RADII ARE TO CURB FLANGE LINE UNLESS OTHERWISE NOTED

SPOT ELEVATIONS ARE TO CURB FLANGE LINE

N

RIVER ROAD

22'RVR'+26.00, -11.00' LT

22'RVR'+26.00, 11.00' RT

21'RVR'+66.00, -13.67' LT

21'RVR'+66.00, 17.00' RT

21'RVR'+46.00, -14.56' LT

15'

15'

784.15

'RVR'+56.00
15.00' RT

STA 21'RVR'+56.00,
75' RT

'RVR'+37.08
18.06' RT

R60'

784.61

'RVR'+15.66
30.59' RT

'RVR'+01.13
50.72' RT

'RVR'+96.00
75.00' RT

785.21

785.52

785.80

STA 21'RVR'+36.00,
55' LT

'RVR'+36.00
15.00' LT

'RVR'+12.60
22.56' LT

R40'

784.61

'RVR'+96.00
55.00' LT

R23.39'

785.09

785.57

785.81

36" - 6D

36" - 6D

'+47.24, -32.00' LT

120'WB'+18.90, 3.00' RT

120'WB'+58.90, 5.40' RT

121'WB'

90°

785.91

120'WB'+68.90, 6.00' RT

36" - 4D

786.08

122'WB'

123'WB'

124'WB'

125'WB'

126'WB'

127'WB'

125'WB'+73.98, -38.00' LT

126'WB'+48.98, -32.00' LT

0, 34.00' RT

121'WB'+12.00, 21.92' RT

MSN1

785.35

36" - 4D

+48.90, 36.00' RT

785.53

785.07

120'WB'+98.03, 29.40' RT

'EB'

121'EB'

786.09

785.51

MSN1

36" - 4D

785.79

785.13

122'WB'+28.90, 12.00' RT

785.32

121'WB'+85.73, 24.65' RT

121'WB'+77.60, 33.00' RT

122'WB'+28.90, 54.00' RT

36" - 4D

785.66

122'WB'+38.90, 54.60' RT

122'EB'

785.93

122'WB'+78.90, 57.00' RT

123'EB'

122'WB'+02.77, 49.61' RT

124'EB'

125'EB'

126'EB'

127'EB'

125'WB'+78.98, 14.00' RT

127'WB'+16.48, 3.00' RT

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

BEGIN CONSTRUCTION
STA. 20'RVR'+00 =
STA 121'EB'+48.90
TYPE B1 MODIFIED INT.

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES - STH 15 & RIVER ROAD INTERSECTION	SHEET E

PRE_50

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021209_PG.DWG
LAYOUT NAME - 021207_pg

PLOT DATE : 10/22/2019 4:26 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : ##########

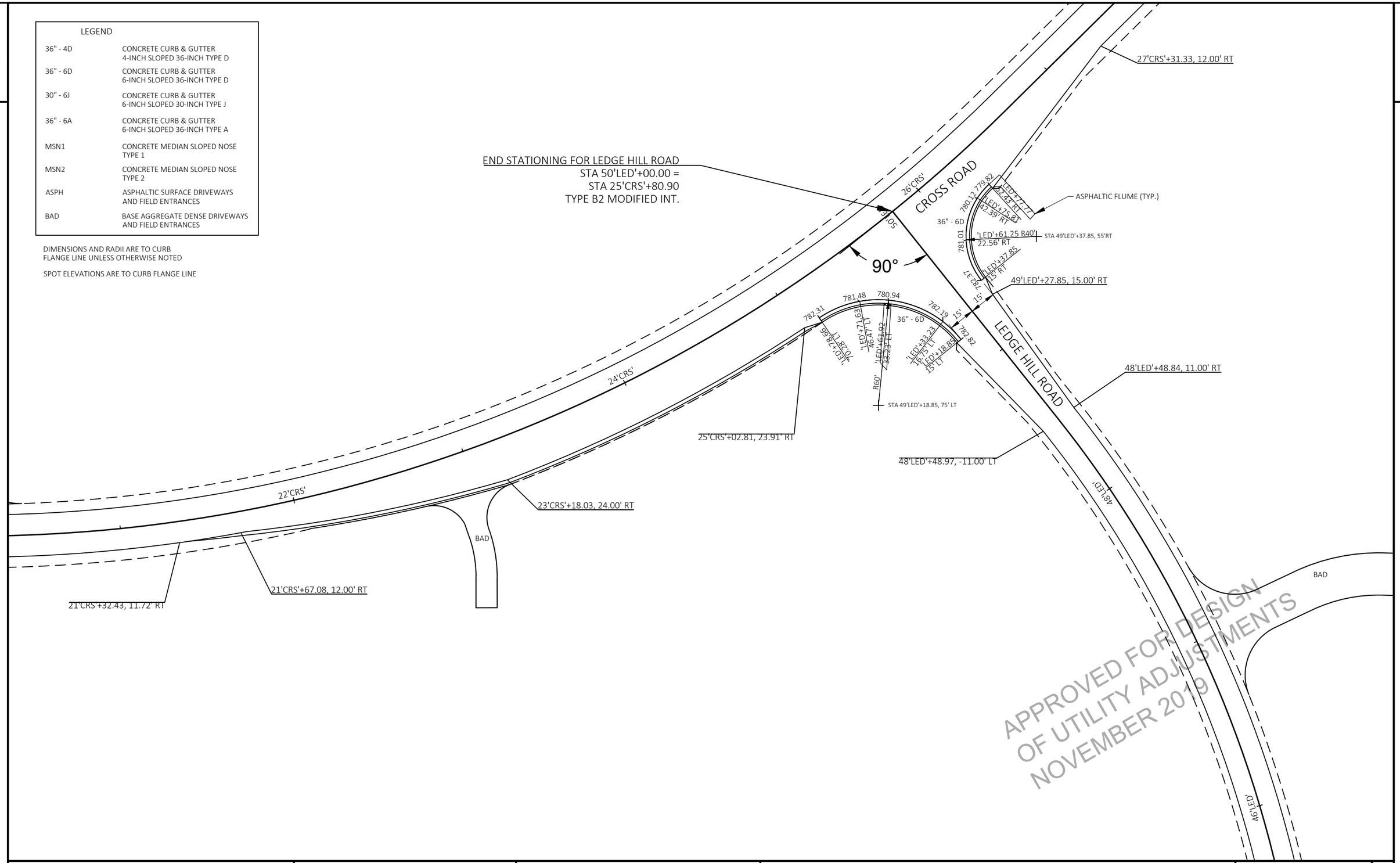
WISDOT/CADDS SHEET 42

2

LEGEND	
36" - 4D	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
36" - 6D	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
30" - 6J	CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
36" - 6A	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A
MSN1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
MSN2	CONCRETE MEDIAN SLOPED NOSE TYPE 2
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BAD	BASE AGGREGATE DENSE DRIVEWAYS AND FIELD ENTRANCES

DIMENSIONS AND RADII ARE TO CURB FLANGE LINE UNLESS OTHERWISE NOTED

SPOT ELEVATIONS ARE TO CURB FLANGE LINE



APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES - STH 15 & LEDGE HILL ROAD INTERSECTION	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021209_PG.DWG
LAYOUT NAME - 021208_pg
PLOT DATE : 10/22/2019 4:26 PM
PLOT BY : MARTIN, THOMAS S
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

2

N

142'WB'

143'WB'

PC 144+15.35'WB'

142'EB'

143'EB'+31.40, -14.00' LT

144'WB'

145'WB'

146'WB'

146'WB'+35.42, 3.00' RT

END STATIONING FOR CROSS ROAD
STA 30'CRS'+04.57 =
STA 147'WB'+52.30
TYPE B1 MODIFIED INT.

BAD

STH 15 'WB'

147'WB'

148'WB'

149'WB'

143'EB'

144'EB'

143'EB'+47.29, 38.00' RT

145'EB'

142'EB'+72.20, 32.00' RT

146'WB'+75.59, 6.00' RT

147'WB'+02.31, 10.84' RT

769.23

769.35

36" - 4D

147'WB'+23.91, 25.65' RT

769.48

MSN1

36" - 4D

147'WB'+00.64, 42.33' RT

770.22

770.49

146'EB'

146'WB'+61.23, 46.00' RT

146'WB'+71.05, 48.00' RT

147'EB'

30'CRS'

769.72

770.34

769.96

36" - 4D

769.17

769.73

MSN1

770.78

148'WB'+19.80, 26.97' RT

147'WB'+90.82, 38.39' RT

147'WB'+97.89, 45.63' RT

148'WB'+33.36, 54.00' RT

148'EB'

36" - 4D

771.27

149'EB'

148'WB'+43.09, 54.39' RT

STH 15 'EB'

148'WB'+91.27, 57.00' RT

146'EB'+83.60, 38.00' RT

90°

771.95

772.05

ASPHALTIC FLUME (TYP.)

'CRS'+09.82
72.95' LT

'CRS'+03.86
48.86' LT

772.16

36" - 6D

'CRS'+66.82
29.24' LT

R60'

'CRS'+66.82
17.45' LT

773.68

15'

'CRS'+49.85
15' LT

774.66

STA 28'CRS'49.85,
75' LT

772.45

36" - 6D

772.20

'CRS'+09.26
53.99' RT

148'EB'+66.80, 32.00' RT

774.06

'CRS'+96.60 R401
25.80' RT

15'

'CRS'+69.27
15' RT

28'CRS'+69.27
55' RT

28'CRS'+59.38, 14.62' RT

28'CRS'

CROSS ROAD

27'CRS'+89.97, -12.00' LT

27'CRS'+89.97, 12.00' RT

APPROVED FOR DESIGN
UTILITY ADJUSTMENTS
NOVEMBER 2019

LEGEND	
36" - 4D	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
36" - 6D	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
30" - 6J	CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
36" - 6A	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A
MSN1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
MSN2	CONCRETE MEDIAN SLOPED NOSE TYPE 2
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BAD	BASE AGGREGATE DENSE DRIVEWAYS AND FIELD ENTRANCES

DIMENSIONS AND RADII ARE TO CURB FLANGE LINE UNLESS OTHERWISE NOTED

SPOT ELEVATIONS ARE TO CURB FLANGE LINE

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES - STH 15 & CROSS ROAD INTERSECTION	SHEET E

PRE_52

2

2

LEGEND	
36" - 4D	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
36" - 6D	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
30" - 6J	CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
36" - 6A	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A
MSN1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
MSN2	CONCRETE MEDIAN SLOPED NOSE TYPE 2
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BAD	BASE AGGREGATE DENSE DRIVEWAYS AND FIELD ENTRANCES

DIMENSIONS AND RADII ARE TO CURB FLANGE LINE UNLESS OTHERWISE NOTED

SPOT ELEVATIONS ARE TO CURB FLANGE LINE

N

BAD

30'CRS'

769.72

770.34

769.96

148'WB'

149'WB'

150'WB'

151'WB'

152'WB'

153'WB'

154'WB'

155'WB'

STH 15 'WB'

154'WB'+35.17, 3.00' RT

ASPHALTIC FLUME (TYP.)

MSN1

36" - 4D

769.17

769.73

770.78

770.57

148'WB'+19.80, 26.07' RT

147'WB'+90.82, 38.39' RT

147'WB'+97.89, 45.63' RT

148'EB'

36" - 4D

771.27

148'WB'+33.36, 54.00' RT

148'WB'+43.09, 54.39' RT

149'EB'

151'WB'+47.73, 26.00' RT

155'EB'+09.02, -12.00' LT

153'EB'+96.52, -3.00' LT

148'WB'+91.27, 57.00' RT

150'EB'

151'EB'

152'EB'

153'EB'

154'EB'

155'EB'

36" - 6D

772.20

772.45

CRS'+96.60

25.80' RT

CRS'+09.26

53.99' RT

148'EB'+66.80, 32.00' RT

STH 15 'EB'

CRS'+69.27

5' RT

28'CRS'+69.27,

55'RT

28'CRS'+59.38, 14.62' RT

89.97, 12.00' RT

31.33, 12.00' RT

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES - STH 15 & CROSS ROAD INTERSECTION (CONTINUED)	SHEET E

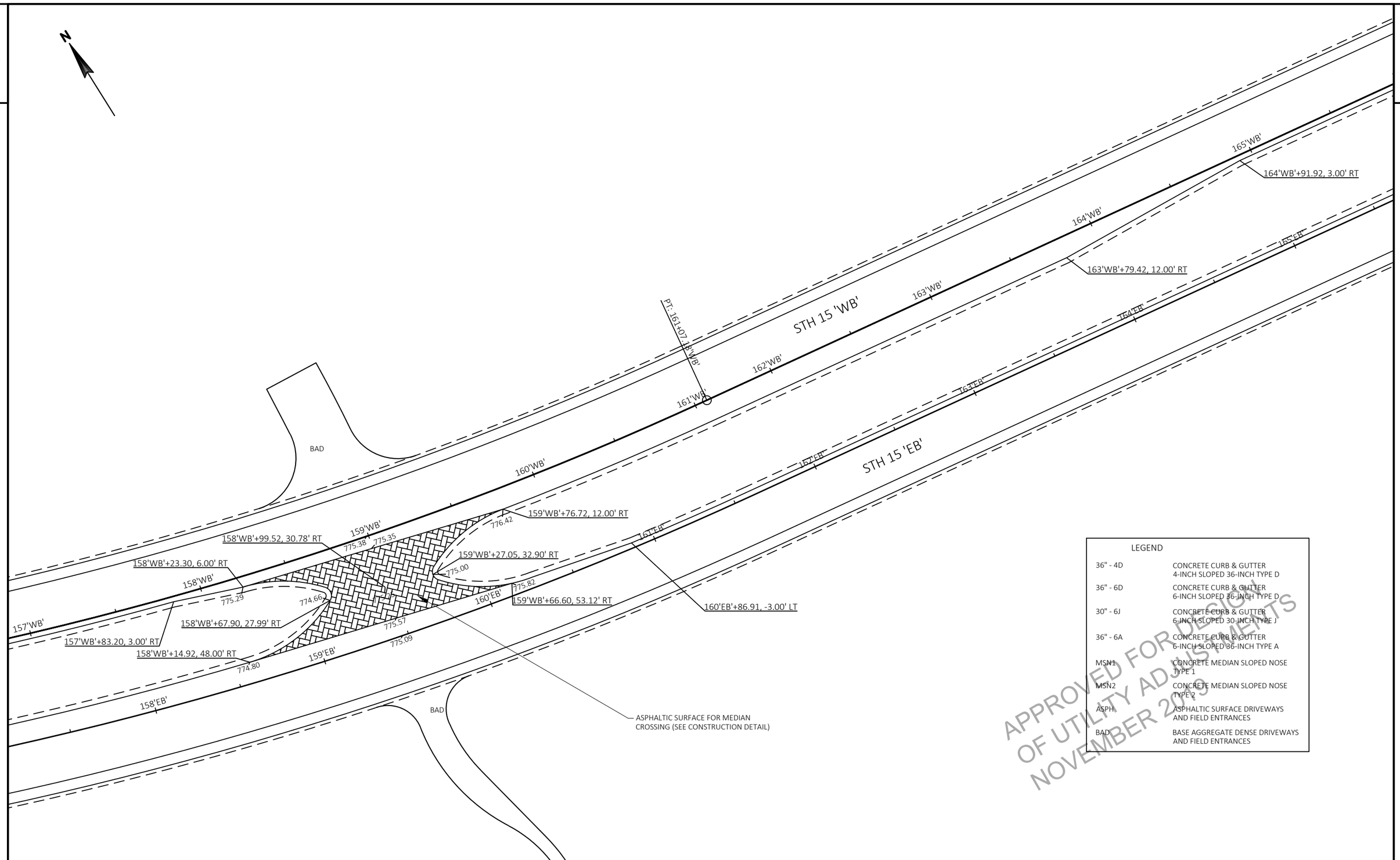
PRE_53

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021209_PG.DWG
LAYOUT NAME - 021210_pg

PLOT DATE : 10/22/2019 4:26 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

2



LEGEND

36" - 4D	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
36" - 6D	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
30" - 6J	CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
36" - 6A	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A
MSN1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
MSN2	CONCRETE MEDIAN SLOPED NOSE TYPE 2
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BAD	BASE AGGREGATE DENSE DRIVEWAYS AND FIELD ENTRANCES

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES - STH 15 MEDIAN CROSSING	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021209_PG.DWG
LAYOUT NAME - 021211_pg

PLOT DATE : 10/22/2019 4:26 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : ##########

2

LOCATIONS FOR POINTS

1. 191'WB'+31.61, -51.02' LT
2. 191'WB'+69.67, -68.77' LT
3. 191'WB'+74.62, -54.00' LT
4. 191'WB'+92.33, -79.34' LT
5. 191'WB'+94.67, -68.69' LT
6. 192'WB'+45.52, -68.78' LT
7. 192'WB'+45.67, -73.55' LT
8. 192'WB'+59.00, -54.00' LT
9. 192'WB'+66.61, -51.28' LT

192'WB'+60.60, -119.01' LT
192'WB'+53.06, -117.92' LT
192'WB'+37.30, -114.71' LT
192'WB'+15.48, -102.76' LT
192'WB'+08.30, -109.71' LT
192'WB'+02.12, -101.85' LT
R10'
R42'
R68'
R160'
R20'
R67'
R25'
R20'
BAD
ASPH
191'WB'+85.96, -90.20' LT
191'WB'+94.62, -53.93' LT
195'WB'
194'WB'
193'WB'
193'WB'+53.34, 49.44' RT
192'WB'+06.40, 31.18' RT
192'WB'+86.33, 12.00' RT
192'WB'+35.02, 33.00' RT
193'EB'+36.33, -3.00' LT
192'WB'+86.33, 54.00' RT
191'WB'+26.33, 6.00' RT
190'WB'+76.33, 3.00' RT
192'WB'
191'WB'
191'WB'+77.63, 27.00' RT
192'EB'
193'EB'
194'EB'
788.67
788.83
788.79
788.60
788.91
788.54
788.28
788.78
788.83
788.03
STH 15 'WB'
190'WB'
189'WB'
188'WB'
187'WB'
191'EB'
191'WB'+26.33, 48.00' RT
190'EB'
189'EB'
188'EB'
187'EB'
STH 15 'EB'
187'EB'+76.33, -12.00' LT
186'EB'+63.83, -3.00' LT
ASPHALTIC SURFACE FOR MEDIAN CROSSING (SEE CONSTRUCTION DETAIL)
BAD

LEGEND

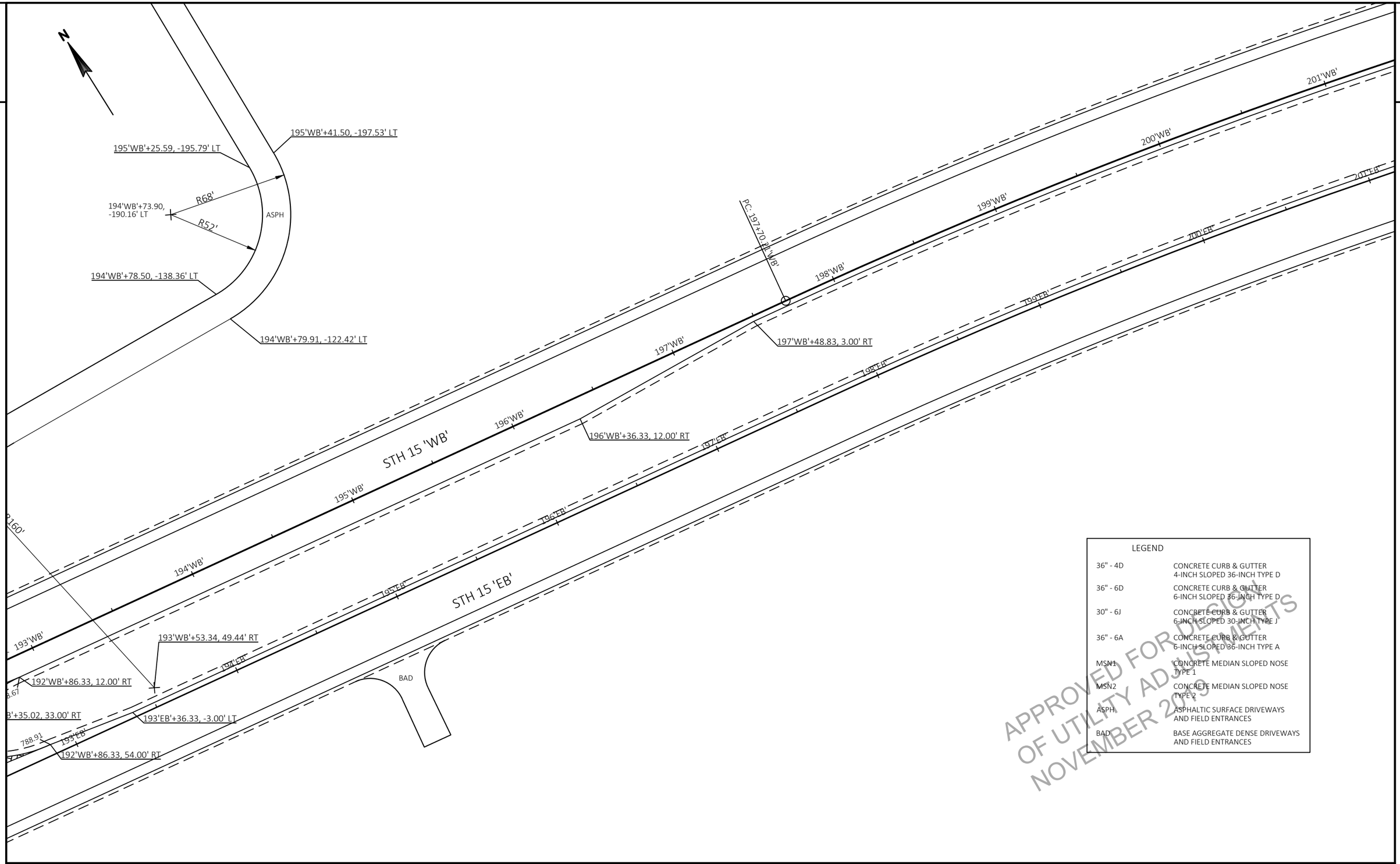
36" - 4D	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
36" - 6D	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
30" - 6J	CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
36" - 6A	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A
MSN1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
MSN2	CONCRETE MEDIAN SLOPED NOSE TYPE 2
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BAD	BASE AGGREGATE DENSE DRIVEWAYS AND FIELD ENTRANCES

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES - STH 15 MEDIAN CROSSING	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021209_PG.DWG
LAYOUT NAME - 021212_pg
PLOT DATE : 10/22/2019 4:26 PM
PLOT BY : MARTIN, THOMAS S
PLOT NAME :
PLOT SCALE : ##########

2



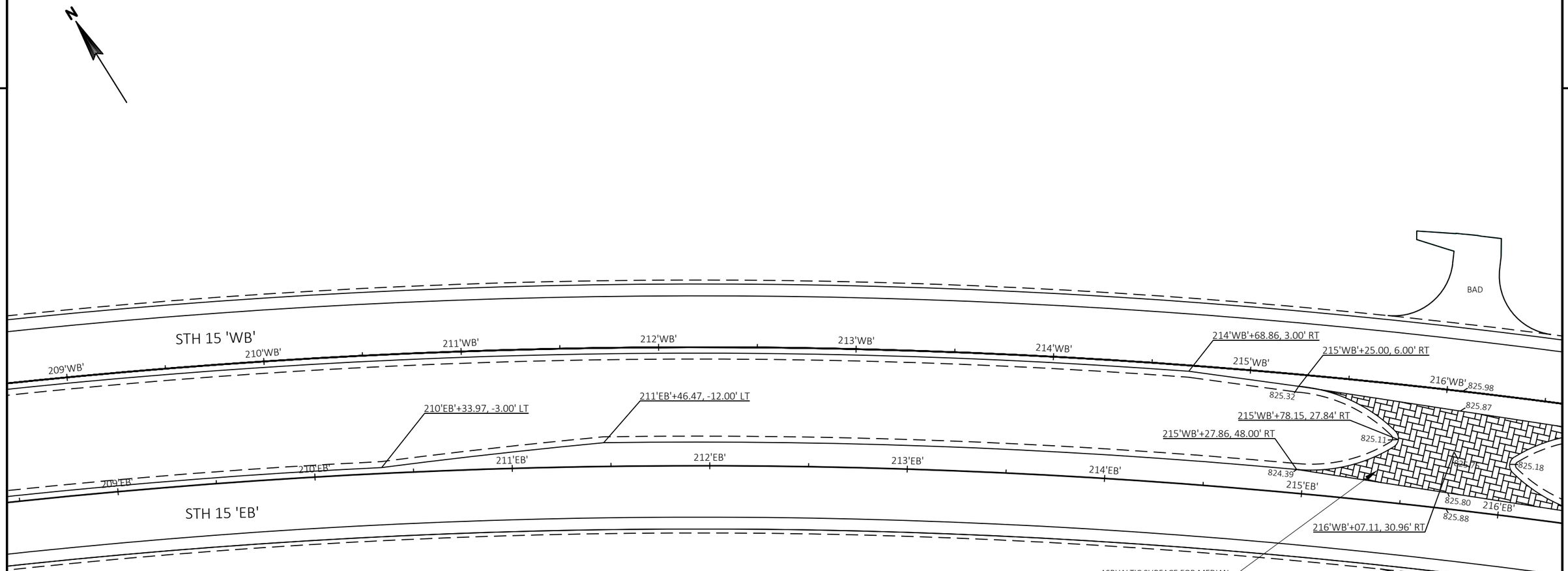
LEGEND	
36" - 4D	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
36" - 6D	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
30" - 6J	CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
36" - 6A	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A
MSN1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
MSN2	CONCRETE MEDIAN SLOPED NOSE TYPE 2
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BAD	BASE AGGREGATE DENSE DRIVEWAYS AND FIELD ENTRANCES

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES - STH 15 MEDIAN CROSSING	SHEET E

PRE_56

2



LEGEND	
36" - 4D	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
36" - 6D	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
30" - 6J	CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
36" - 6A	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A
MSN1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
MSN2	CONCRETE MEDIAN SLOPED NOSE TYPE 2
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BAD	BASE AGGREGATE DENSE DRIVEWAYS AND FIELD ENTRANCES

LOCATIONS FOR POINTS

1. 215'EB'+33.67, 51.82' RT
2. 215'EB'+43.59, 54.00' RT
3. 215'EB'+63.46, 58.28' RT
4. 215'EB'+84.45, 53.53' RT
5. 216'EB'+04.78, 54.00' RT

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES - STH 15 MEDIAN CROSSING	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021209_PG.DWG
LAYOUT NAME - 021214_pg

PLOT DATE : 10/22/2019 4:26 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : ##########

2

LEGEND	
36" - 4D	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
36" - 6D	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
30" - 6J	CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
36" - 6A	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A
MSN1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
MSN2	CONCRETE MEDIAN SLOPED NOSE TYPE 2
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BAD	BASE AGGREGATE DENSE DRIVEWAYS AND FIELD ENTRANCES

DIMENSIONS AND RADII ARE TO CURB FLANGE LINE UNLESS OTHERWISE NOTED

SPOT ELEVATIONS ARE TO CURB FLANGE LINE

N

STH 15 'WB'

STH 15 'EB'

BAD

'+68.86, 3.00' RT

215'WB'+25.00, 6.00' RT

5'WB'

825.32

216'WB'

825.98

825.87

217'WB'

826.60

15'WB'+78.15, 27.84' RT

.00' RT

825.11

824.39

825.18

216'WB'+89.37, 12.00' RT

216'WB'+86.50, 54.00' RT

215'EB'

825.80

825.88

216'EB'

825.87

216'EB'+96.02, -3.00' LT

217'EB'

216'WB'+07.11, 30.96' RT

PT 218+78.08'WB'

218'WB'

219'WB'

220'WB'

220'WB'+01.73, 12.00' RT

221'WB'

221'WB'+14.23, 3.00' RT

222'WB'

218'EB'

219'EB'

220'EB'

221'EB'

222'EB'

'EB'+41.46, 80.83' RT

90' RT

.38' RT

4, 100.16' RT

1

2

3

4

5

R20'

R30'

R50'

R20'

ASPHALTIC SURFACE FOR MEDIAN CROSSING (SEE CONSTRUCTION DETAIL)

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES - STH 15 MEDIAN CROSSING	SHEET E

PRE_58

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021209_PG.DWG
LAYOUT NAME - 021215_pg

PLOT DATE : 10/22/2019 4:26 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

2

2

END CONSTRUCTION
STA 20'KLY'+00 =
STA 232'WB'+16.05
TYPE B1 MODIFIED INT.

N

STH 15 'WB'

STH 15 'EB'

KELLY DRIVE

BAD

ASPH

ASPHALTIC FLUME (TYP.)

MSN1

36" - 4D

36" - 6D

227'WB'
228'WB'
229'WB'
230'WB'
231'WB'
232'WB'
233'WB'
234'WB'

227'EB'
228'EB'
229'EB'
230'EB'
231'EB'
232'EB'
233'EB'
234'EB'

PC 233+54.88'WB'

230'WB'+84.89, 3.00' RT
231'WB'+24.89, 5.40' RT
231'WB'+34.89, 6.00' RT
231'WB'+59.55, 9.89' RT
231'WB'+83.87, 25.06' RT
231'WB'+76.39, 33.47' RT
231'WB'+57.94, 43.12' RT
231'WB'+30.42, 48.00' RT
233'WB'+16.05, 24.00' RT
232'WB'+85.78, 26.48' RT
232'WB'+52.95, 38.08' RT
232'WB'+74.97, 51.17' RT
233'EB'+47.16, -3.00' LT
232'WB'+96.05, 54.00' RT
233'EB'+17.35, 32.00' RT
227'EB'+80.42, -14.00' LT
226'EB'+42.84, -3.00' LT
227'EB'+12.77, 32.00' RT
227'EB'+87.77, 38.00' RT
18'KLY'+66.60, 55.00' RT
18'KLY'+57.11, 14.64' RT
17'KLY'+60.42, -11.00' LT

'KLY'+04.00, 78.20' LT
'KLY'+96.66, 49.44' LT
'KLY'+82.75, 32.42' LT
'KLY'+56.49, 18.98' LT
'KLY'+30.37, 15' LT
18'KLY'+30.37, 75' LT
'KLY'+66.60, 15' RT
'KLY'+92.95, R40', 27.02' RT
'KLY'+04.00, 54.61' RT

90°

816.85
816.32
816.86
816.60
815.68
815.26
815.85
815.97
817.62
817.48
817.30
817.23
817.37
817.57
819.10
818.31
817.66
819.63
819.93
818.21
817.09
816.11

18'KLY'

16'KLY'

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

LEGEND

36" - 4D	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
36" - 6D	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
30" - 6J	CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
36" - 6A	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A
MSN1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
MSN2	CONCRETE MEDIAN SLOPED NOSE TYPE 2
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BAD	BASE AGGREGATE DENSE DRIVEWAYS AND FIELD ENTRANCES

DIMENSIONS AND RADII ARE TO CURB FLANGE LINE UNLESS OTHERWISE NOTED

SPOT ELEVATIONS ARE TO CURB FLANGE LINE

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES - STH 15 & KELLY DRIVE INTERSECTION	SHEET E

PRE_59

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021209_PG.DWG
LAYOUT NAME - 021216_pg

PLOT DATE : 10/22/2019 4:26 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

2

2

STH 15 'WB'

STH 15 'EB'

ASPH

BAD

PC 238+54.88 'WB'

233'WB'

234'WB'

235'WB'

236'WB'

237'WB'

238'WB'

239'WB'

240'WB'

239'WB'+02.58, 3.00' RT

236'WB'+15.09, 26.00' RT

240'EB'

239'EB'

238'EB'

237'EB'

236'EB'

235'EB'

234'EB'

233'EB'

ASPHALTIC FLUME (TYP.)

233'WB'+16.05, 24.00' RT

232'WB'+85.78, 26.48' RT

232'WB'+52.95, 38.08' RT

232'WB'+74.97, 51.17' RT

232'WB'+96.05, 54.00' RT

233'EB'+47.16, -3.00' LT

233'EB'+17.35, 32.00' RT

MSN1

36" - 4D

36" - 6D

815.68

815.26

816.11

815.85

815.97

816.85

816.86

816.60

817.09

818.21

819.63

819.93

'KLY'+92.95 RADII

'KLY'+27.02 RT

'KLY'+04.00

5.63' RT

'KLY'+66.60

15' RT

18'KLY'+66.60,
55.00' RT

18'KLY'+57.11, 14.64' RT

18' KLY'

ASPH

LEGEND

36" - 4D	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
36" - 6D	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
30" - 6J	CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
36" - 6A	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A
MSN1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
MSN2	CONCRETE MEDIAN SLOPED NOSE TYPE 2
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BAD	BASE AGGREGATE DENSE DRIVEWAYS AND FIELD ENTRANCES

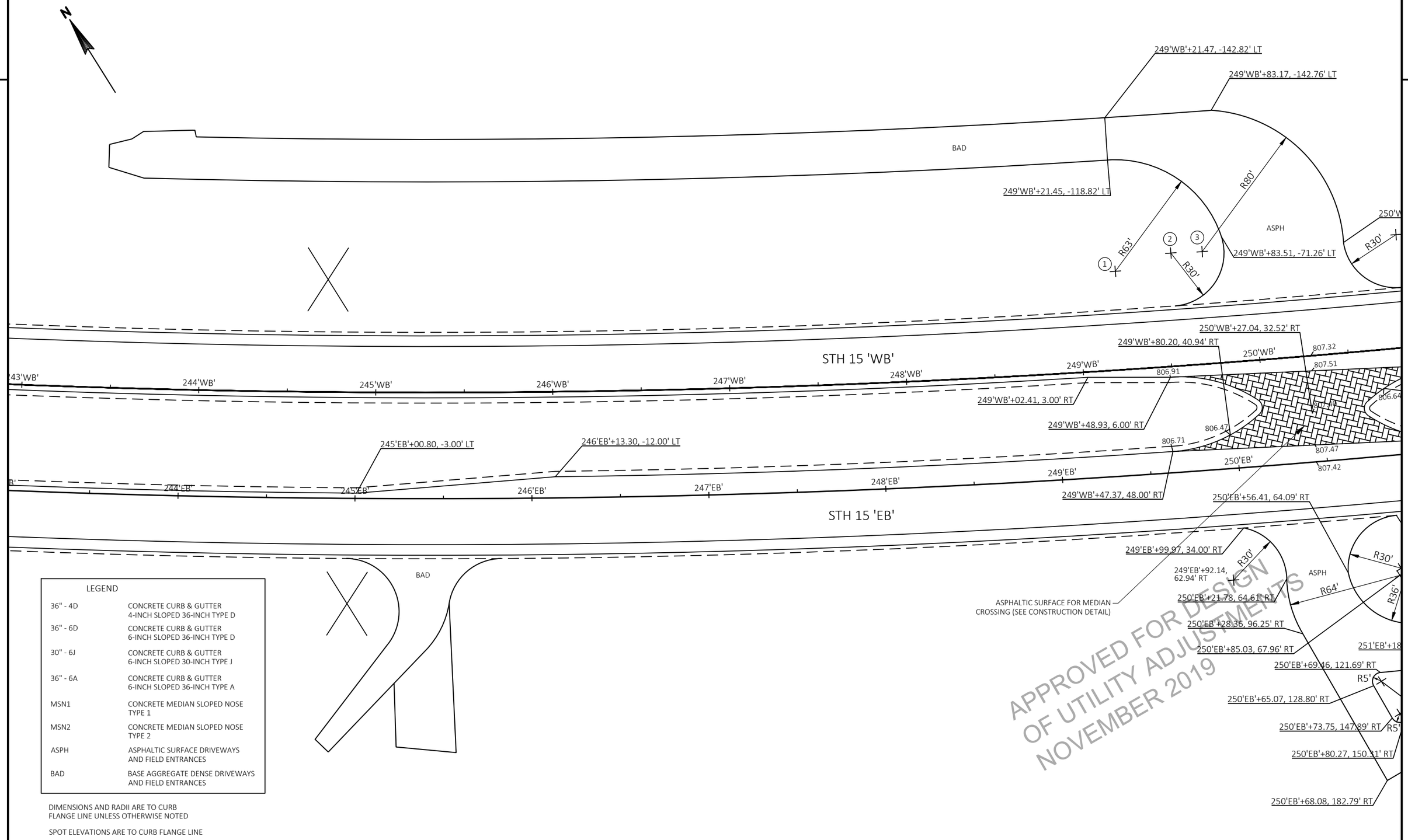
DIMENSIONS AND RADII ARE TO CURB FLANGE LINE UNLESS OTHERWISE NOTED

SPOT ELEVATIONS ARE TO CURB FLANGE LINE

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES - STH 15 & KELLY DRIVE INTERSECTION (CONTINUED)	SHEET E

2



LEGEND	
36" - 4D	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
36" - 6D	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
30" - 6J	CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
36" - 6A	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A
MSN1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
MSN2	CONCRETE MEDIAN SLOPED NOSE TYPE 2
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BAD	BASE AGGREGATE DENSE DRIVEWAYS AND FIELD ENTRANCES

DIMENSIONS AND RADII ARE TO CURB FLANGE LINE UNLESS OTHERWISE NOTED

SPOT ELEVATIONS ARE TO CURB FLANGE LINE

APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES - STH 15 MEDIAN CROSSING	SHEET E

PRE_61

2

LOCATIONS FOR POINTS

1. 249'WB'+21.77, -55.83' LT
2. 249'WB'+54.07, -63.99' LT
3. 249'WB'+71.99, -63.52' LT

249'WB'+21.47, -142.82' LT

249'WB'+83.17, -142.76' LT

BAD

249'WB'+21.45, -118.82' LT

R80'

ASPH

250'WB'+52.83, -62.23' LT

R63'

R30'

250'WB'+83.10, -64.00' LT

249'WB'+83.51, -71.26' LT

STH 15 'WB'

256'WB'

255'WB'

254'WB'

253'WB'

252'WB'

251'WB'

255'WB'+69.19, 3.00' RT

254'WB'+56.60, 12.00' RT

251'WB'+06.60, 12.00' RT

250'WB'+27.04, 32.52' RT

249'WB'+80.20, 40.94' RT

250'WB'

249'WB'

807.32

807.51

807.56

806.91

B'+02.41, 3.00' RT

250'WB'+68.34, 21.94' RT

806.64

806.71

249'WB'+48.93, 6.00' RT

806.47

807.47

807.42

807.61

251'WB'+08.15, 54.00' RT

STH 15 'EB'

256'EB'

255'EB'

254'EB'

253'EB'

252'EB'

251'EB'

250'EB'

249'EB'

251'EB'+79.13, -3.00' LT

ASPHALTIC SURFACE FOR MEDIAN CROSSING (SEE CONSTRUCTION DETAIL)

249'WB'+47.37, 48.00' RT

250'EB'+56.41, 64.09' RT

250'EB'+86.10, 34.00' RT

250'EB'+86.10, 64.00' RT

250'EB'+91.76, 59.68' RT

249'EB'+99.97, 34.00' RT

R30'

249'EB'+92.14, 62.94' RT

ASPH

R30'

R64'

R36'

250'EB'+21.78, 64.61' RT

250'EB'+88.78, 95.53' RT

251'EB'+96.92, 95.78' RT

252'EB'+15.18, 108.84' RT

R20'

250'EB'+28.36, 96.25' RT

250'EB'+85.03, 67.96' RT

251'EB'+18.64, 121.40' RT

250'EB'+69.46, 121.69' RT

R5'

R5'

R5'

252'EB'+16.92, 112.70' RT

251'EB'+96.70, 115.78' RT

250'EB'+65.07, 128.80' RT

251'EB'+18.65, 126.40' RT

251'EB'+20.71, 130.94' RT

250'EB'+73.75, 147.89' RT

250'EB'+80.27, 150.31' RT

250'EB'+69.51, 126.69' RT

250'EB'+78.18, 145.79' RT

250'EB'+68.08, 182.79' RT

LEGEND

36" - 4D	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
36" - 6D	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
30" - 6J	CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
36" - 6A	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A
MSN1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
MSN2	CONCRETE MEDIAN SLOPED NOSE TYPE 2
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BAD	BASE AGGREGATE DENSE DRIVEWAYS AND FIELD ENTRANCES

DIMENSIONS AND RADII ARE TO CURB FLANGE LINE UNLESS OTHERWISE NOTED

SPOT ELEVATIONS ARE TO CURB FLANGE LINE

APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES - STH 15 MEDIAN CROSSING	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021209_PG.DWG
LAYOUT NAME - 021219_pg
PLOT DATE : 10/22/2019 4:26 PM
PLOT BY : MARTIN, THOMAS S
PLOT NAME :
PLOT SCALE : ##########

2

2

N

SIGN

STA 43'USH'+00.00, 65.69' LT
TOP OF HMA PAVEMENT
ELEVATION = 771.22

STA 43'USH'+00.00, 59.48' LT
TOP OF HMA PAVEMENT
ELEVATION = 771.52

STA 42'USH'+66.41, 62.68 LT
TOP OF HMA PAVEMENT
ELEVATION = 772.24

STA 42'USH'+66.41, 59.68 LT
TOP OF HMA PAVEMENT
ELEVATION = 772.28

STA 43'USH'+00.00, 47.70' LT
TOP OF HMA PAVEMENT
ELEVATION = 771.57

STA 42'USH'+66.41, 47.94 LT
TOP OF HMA PAVEMENT
ELEVATION = 772.43

STA 43'USH'+00.00, 37.73' LT
TOP OF HMA PAVEMENT
ELEVATION = 771.49

STA 42'USH'+66.41, 38.00 LT
TOP OF HMA PAVEMENT
ELEVATION = 772.47

STA 43'USH'+57.58, 70.34' LT
TOP OF HMA PAVEMENT
ELEVATION = 770.42

STA 43'USH'+74.63, 67.89' LT
TOP OF HMA PAVEMENT
ELEVATION = 770.46

STA 43'USH'+54.84, 58.41' LT
TOP OF HMA PAVEMENT
ELEVATION = 770.72

STA 43'USH'+75.24, 57.89' LT
TOP OF HMA PAVEMENT
ELEVATION = 770.50

STA 43'USH'+52.14, 46.65' LT
TOP OF HMA PAVEMENT
ELEVATION = 770.78

STA 43'USH'+72.56, 46.24' LT
TOP OF HMA PAVEMENT
ELEVATION = 770.52

STA 43'USH'+49.85, 36.70' LT
TOP OF HMA PAVEMENT
ELEVATION = 770.60

STA 43'USH'+70.27, 36.27' LT
TOP OF HMA PAVEMENT
ELEVATION = 770.51

STA 43'USH'+65.69, 16.34' LT
TOP OF HMA PAVEMENT
ELEVATION = 770.33

STA 43'USH'+45.00, 15.61' LT
TOP OF HMA PAVEMENT
ELEVATION = 770.44

STA 43'USH'+96.31, 60.47' LT
TOP OF HMA PAVEMENT
ELEVATION = 770.36

STA 44'USH'+18.26, 67.15' LT
TOP OF HMA PAVEMENT
ELEVATION = 769.81

STA 44'USH'+50.00, 63.36' LT
TOP OF HMA PAVEMENT
ELEVATION = 769.43

STA 44'USH'+50.00, 56.67' LT
TOP OF HMA PAVEMENT
ELEVATION = 769.69

STA 44'USH'+84.81, 59.21' LT
TOP OF HMA PAVEMENT
ELEVATION = 769.03

STA 44'USH'+16.15, 57.30' LT
TOP OF HMA PAVEMENT
ELEVATION = 770.16

STA 44'USH'+84.75, 55.97' LT
TOP OF HMA PAVEMENT
ELEVATION = 769.10

STA 44'USH'+13.42, 45.41' LT
TOP OF HMA PAVEMENT
ELEVATION = 770.27

STA 44'USH'+50.00, 44.67' LT
TOP OF HMA PAVEMENT
ELEVATION = 769.93

STA 44'USH'+84.51, 43.97' LT
TOP OF HMA PAVEMENT
ELEVATION = 769.37

STA 44'USH'+11.13, 35.46' LT
TOP OF HMA PAVEMENT
ELEVATION = 770.05

STA 44'USH'+50.00, 34.71' LT
TOP OF HMA PAVEMENT
ELEVATION = 769.72

STA 44'USH'+84.32, 34.04' LT
TOP OF HMA PAVEMENT
ELEVATION = 769.16

STA 43'USH'+92.80, 45.83 LT
TOP OF HMA PAVEMENT
ELEVATION = 770.31

STA 44'USH'+50.00, 21.65' LT
TOP OF HMA PAVEMENT
ELEVATION = 769.45

STA 44'USH'+84.12, 23.67' LT
TOP OF HMA PAVEMENT
ELEVATION = 768.95

STA 43'USH'+90.50, 36.22 LT
TOP OF HMA PAVEMENT
ELEVATION = 770.25

STA 43'USH'+84.84, 11.93' LT
TOP OF HMA PAVEMENT
ELEVATION = 770.72

STA 43'USH'+41.41, 0.00' RT
TOP OF HMA PAVEMENT
ELEVATION = 770.82

STA 43'USH'+61.93, 0.00' RT
TOP OF HMA PAVEMENT
ELEVATION = 770.65

STA 43'USH'+82.15, 0.00' RT
TOP OF HMA PAVEMENT
ELEVATION = 770.53

STA 44'USH'+02.97, 0.00' RT
TOP OF HMA PAVEMENT
ELEVATION = 770.34

STA 43'USH'+38.64, 12.04' RT
TOP OF HMA PAVEMENT
ELEVATION = 770.77

STA 43'USH'+60.10, 7.97' RT
TOP OF HMA PAVEMENT
ELEVATION = 770.65

STA 43'USH'+59.16, 12.05' RT
TOP OF HMA PAVEMENT
ELEVATION = 770.66

STA 43'USH'+79.35, 12.39' RT
TOP OF HMA PAVEMENT
ELEVATION = 770.55

STA 44'USH'+00.20, 12.08' RT
TOP OF HMA PAVEMENT
ELEVATION = 770.44

STA 43'USH'+35.89, 24.00' RT
TOP OF HMA PAVEMENT
ELEVATION = 770.69

STA 43'USH'+56.41, 24.00' RT
TOP OF HMA PAVEMENT
ELEVATION = 770.65

STA 43'USH'+76.72, 24.00' RT
TOP OF HMA PAVEMENT
ELEVATION = 770.55

STA 43'USH'+97.45, 24.00' RT
TOP OF HMA PAVEMENT
ELEVATION = 770.38

STA 44'USH'+35.74, 32.00' RT
TOP OF HMA PAVEMENT
ELEVATION = 769.62

STA 43'USH'+15.03, 32.00' RT
TOP OF HMA PAVEMENT
ELEVATION = 770.58

STA 43'USH'+55.52, 36.05' RT
TOP OF HMA PAVEMENT
ELEVATION = 770.60

STA 43'USH'+71.43, 38.38' RT
TOP OF HMA PAVEMENT
ELEVATION = 770.54

PI : 42'USH'+86.56

43'USH'

44'USH'

45'USH'

45 NB

'ORRA'

421R

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PAVING GRADES - RAILROAD CROSSING - USH 45	SHEET E

PRE_63

2

2

N

SAWCUT FOR LOOP DETECTOR

SAWCUT FOR LOOP DETECTOR

USH 45

34'USH'

36'USH'

38'USH'

204.0245.01
REMOVING
STORM SEWER
12-INCH

204.0220
REMOVING INLETS

204.0245.01
REMOVING STORM SEWER
12-INCH

REMOVING APRON ENDWALLS

204.0210
REMOVING MANHOLES

204.0245.01
REMOVING STORM SEWER 12-INCH

204.0245.01
REMOVING STORM SEWER 12-INCH

REMOVING APRON ENDWALLS

204.0220
REMOVING INLETS

SIGN

SIGN

RIP-RAP

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

STH 15

102'W

102'W

LEGEND

- REMOVING CURB AND GUTTER
- REMOVING ASPHALTIC SURFACE
- REMOVING PAVEMENT
- XXXX SAWCUT
- CLEARING AND GRUBBING, STA
- X CLEARING AND GRUBBING, ID
- DRIVEWAY REMOVAL
- REMOVING SMALL PIPE CULVERTS
- REMOVING CONCRETE SIDEWALK

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	REMOVALS	SHEET E

PRE_64

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021201_RE.DWG
LAYOUT NAME - 021201_RE

PLOT DATE : 10/22/2019 4:30 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

204.0245.01
REMOVING STORM SEWER
12-INCH

204.0245.01
REMOVING STORM SEWER
12-INCH

204.0220
REMOVING INLETS

STORM SEWER INLET
TO REMAIN

USH 45

USH 45

40'USH'

42'USH'

44'USH'

46'

100'EB'

100'WB'

204.0220
REMOVING INLETS

204.0220
REMOVING INLETS

204.0245.01
REMOVING STORM SEWER
12-INCH

REMOVING APRON ENDWALLS

203.0100
REMOVING SMALL PIPE CULVERTS

MANHOLE TO REMAIN
(PART OF MOUND SYSTEM)

204.0245.02
REMOVING STORM SEWER
24-INCH

2'

R/W

LEGEND

- REMOVING CURB AND GUTTER
- REMOVING ASPHALTIC SURFACE
- REMOVING PAVEMENT
- XXXX SAWCUT
- CLEARING AND GRUBBING, STA
- X CLEARING AND GRUBBING, ID
- DRIVEWAY REMOVAL
- REMOVING SMALL PIPE CULVERTS
- REMOVING CONCRETE SIDEWALK

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	REMOVALS	SHEET E

PRE_65

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021201_RE.DWG
LAYOUT NAME - 021202_RE

PLOT DATE : 10/22/2019 4:30 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

SIGN

204.0220
REMOVING INLETS

204.0245.01
REMOVING STORM SEWER 12-INCH

SIGN

USH 45

XX XXXX XXXX XXXX XXXX XXXX

USH 45

46'USH'

48'USH'

50'USH'

USH 45

LEGEND

- REMOVING CURB AND GUTTER
- REMOVING ASPHALTIC SURFACE
- REMOVING PAVEMENT
- XXXX SAWCUT
- CLEARING AND GRUBBING, STA
- X CLEARING AND GRUBBING, ID
- DRIVEWAY REMOVAL
- REMOVING SMALL PIPE CULVERTS
- REMOVING CONCRETE SIDEWALK

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	REMOVALS	SHEET E

PRE_66

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021201_RE.DWG
LAYOUT NAME - 021203_RE

PLOT DATE : 10/22/2019 4:30 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

SAWCUT FOR LOOP DETECTOR

STA 43 'USH'+21
OFFSET=232.84' LT

STA 42 'USH'+05
OFFSET=178.52' LT

CTH T

USH 45

SIGN

FLAG

SIGN

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

LEGEND

- REMOVING CURB AND GUTTER
- REMOVING ASPHALTIC SURFACE
- REMOVING PAVEMENT
- XXXX SAWCUT
- CLEARING AND GRUBBING, STA
- X CLEARING AND GRUBBING, ID
- DRIVEWAY REMOVAL
- REMOVING SMALL PIPE CULVERTS
- REMOVING CONCRETE SIDEWALK

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	REMOVALS	SHEET E

PRE_67

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021201_RE.DWG
LAYOUT NAME - 021210_RE

PLOT DATE : 10/22/2019 4:31 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

131+50.00 MATCH LINE

203.0100
REMOVING SMALL CULVERT PIPES

203.0100
REMOVING SMALL CULVERT PIPES

204.0245.02
REMOVING STORM
SEWER 24-INCH

203.0100
REMOVING SMALL CULVERT PIPES

203.0100
REMOVING SMALL CULVERT PIPES

204.0220
REMOVING INLETS

204.0245.01
REMOVING STORM
SEWER 12-INCH

203.0100
REMOVING SMALL CULVERT PIPES

203.0100
REMOVING SMALL CULVERT PIPES

203.0100
REMOVING SMALL CULVERT PIPES

LEGEND

- REMOVING CURB AND GUTTER
- REMOVING ASPHALTIC SURFACE
- REMOVING PAVEMENT
- XXXX SAWCUT
- CLEARING AND GRUBBING, STA
- X CLEARING AND GRUBBING, ID
- DRIVEWAY REMOVAL
- REMOVING SMALL PIPE CULVERTS
- REMOVING CONCRETE SIDEWALK

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	REMOVALS	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021201_RE.DWG
LAYOUT NAME - 021204_RE

PLOT DATE : 10/22/2019 4:31 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:200 FT

2

2

203.0100
REMOVING SMALL CULVERT PIPES

203.0100
REMOVING SMALL CULVERT PIPES

203.0100
REMOVING SMALL CULVERT PIPES

203.0100
REMOVING SMALL CULVERT PIPES

203.0100
REMOVING SMALL CULVERT PIPES

214.0100
OBLITERATING
OLD ROAD

203.0100
REMOVING SMALL CULVERT PIPES

203.0100
REMOVING SMALL CULVERT PIPES

LEGEND

- REMOVING CURB AND GUTTER
- REMOVING ASPHALTIC SURFACE
- REMOVING PAVEMENT
- XXXX SAWCUT
- CLEARING AND GRUBBING, STA
- X CLEARING AND GRUBBING, ID
- DRIVEWAY REMOVAL
- REMOVING SMALL PIPE CULVERTS
- REMOVING CONCRETE SIDEWALK

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	REMOVALS	SHEET E

PRE_69

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021201_RE.DWG
LAYOUT NAME - 021205_RE

PLOT DATE : 10/22/2019 4:32 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:200 FT

2

2

N

203.0100
REMOVING SMALL CULVERT PIPES

203.0100
REMOVING SMALL CULVERT PIPES

203.0100
REMOVING SMALL CULVERT PIPES

203.0100
REMOVING SMALL CULVERT PIPES

203.0100
REMOVING SMALL CULVERT PIPES

203.0100
REMOVING SMALL CULVERT PIPES

203.0100
REMOVING SMALL CULVERT PIPES

203.0100
REMOVING SMALL CULVERT PIPES

TLE

TLE

R/W

R/W

R/W

R/W

R/W

P.L.

P.L.

P.L.

2

2

203.0100
REMOVING SMALL CULVERT PIPES

203.0100
REMOVING SMALL CULVERT PIPES

203.0100
REMOVING SMALL CULVERT PIPES

203.0100
REMOVING SMALL CULVERT PIPES

203.0100
REMOVING SMALL CULVERT PIPES

203.0100
REMOVING SMALL CULVERT PIPES

203.0100
REMOVING SMALL CULVERT PIPES

LEGEND

- REMOVING CURB AND GUTTER
- REMOVING ASPHALTIC SURFACE
- REMOVING PAVEMENT
- XXXX SAWCUT
- CLEARING AND GRUBBING, STA
- X CLEARING AND GRUBBING, ID
- DRIVEWAY REMOVAL
- REMOVING SMALL PIPE CULVERTS
- REMOVING CONCRETE SIDEWALK

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	REMOVALS	SHEET E

PRE_71

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021201_RE.DWG
LAYOUT NAME - 021207_RE

PLOT DATE : 10/22/2019 4:32 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:200 FT

2

2

EXISTING ACCESS CONTROL
PROJECT 1146-1-22/F 07(19)

203.0100
REMOVING SMALL CULVERT PIPES

203.0100
REMOVING SMALL CULVERT PIPES

203.0100
REMOVING SMALL CULVERT PIPES

203.0100
REMOVING SMALL CULVERT PIPES

203.0100
REMOVING SMALL CULVERT PIPES

LEGEND

- REMOVING CURB AND GUTTER
- REMOVING ASPHALTIC SURFACE
- REMOVING PAVEMENT
- XXXX SAWCUT
- CLEARING AND GRUBBING, STA
- X CLEARING AND GRUBBING, ID
- DRIVEWAY REMOVAL
- REMOVING SMALL PIPE CULVERTS
- REMOVING CONCRETE SIDEWALK

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	REMOVALS	SHEET E

PRE_72

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021201_RE.DWG
LAYOUT NAME - 021208_RE

PLOT DATE : 10/22/2019 4:33 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 42

2

2

EXISTING ACCESS CONTROL
PROJECT 1146-1-22/F 07(19)

Compiled By: Continental Mapping Consultants
Date: 08-11
Photography Date: 04-25-11

P.L.

TLE

R/W

HE

248'WB' 250'WB' 252'WB' 254'WB' 256'WB' 258'WB' 260'WB' 262'WB' 264'WB' 266'WB'

248'EB' 252'EB' 254'EB' 256'EB' 258'EB' 260'EB' 262'EB' 264'EB' 266'EB'

203.0100
REMOVING SMALL CULVERT PIPES

LEGEND

- REMOVING CURB AND GUTTER
- REMOVING ASPHALTIC SURFACE
- REMOVING PAVEMENT
- XXXX SAWCUT
- CLEARING AND GRUBBING, STA
- X CLEARING AND GRUBBING, ID
- DRIVEWAY REMOVAL
- REMOVING SMALL PIPE CULVERTS
- REMOVING CONCRETE SIDEWALK

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	REMOVALS	SHEET E

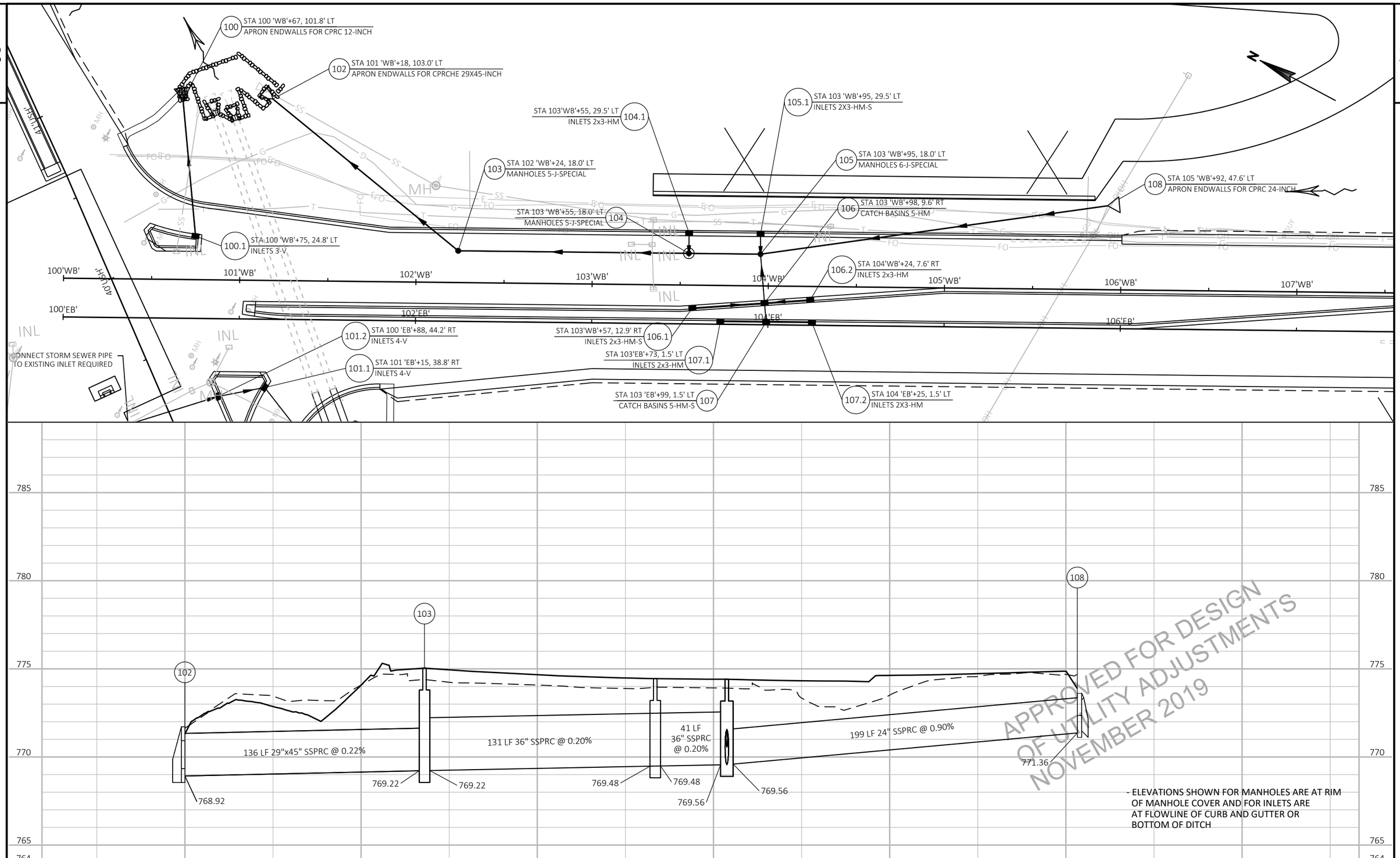
PRE_73

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\021201_RE.DWG
LAYOUT NAME - 021209_RE

PLOT DATE : 10/22/2019 4:33 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	STORM SEWER - STH 15	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\022501_SS.DWG
LAYOUT NAME - 022501_SS

PLOT DATE : 11/5/2019 2:19 PM PLOT BY : FARRELL, ALAN E PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

100 STA 100 'WB'+67, 101.8' LT
APRON ENDWALLS FOR CPRC 12-INCH

102 STA 101 'WB'+18, 103.0' LT
APRON ENDWALLS FOR CPRCHE 29X45-INCH

100.1 STA 100 'WB'+75, 24.8' LT
INLETS 3-V

103 STA 102 'WB'+24, 18.0' LT
MANHOLES 5-J-SPECIAL

STA 103'WB'+55, 29.5' LT
INLETS 2x3-HM 104.1

STA 103 'WB'+55, 18.0' LT
MANHOLES 5-J-SPECIAL 104

105.1 STA 103 'WB'+95, 29.5' LT
INLETS 2X3-HM-S

105 STA 103 'WB'+95, 18.0' LT
MANHOLES 6-J-SPECIAL

106 STA 103 'WB'+98, 9.6' RT
CATCH BASINS 5-HM

108 STA 105 'WB'+92, 47.6' LT
APRON ENDWALLS FOR CPRC 24-INCH

106.2 STA 104'WB'+24, 7.6' RT
INLETS 2x3-HM

100'WB' 101'WB' 102'WB' 103'WB' 104'WB' 105'WB' 106'WB' 107'WB'

100'EB' 102'EB' 104'EB' 106'EB'

101.2 STA 100 'EB'+88, 44.2' RT
INLETS 4-V

101.1 STA 101 'EB'+15, 38.8' RT
INLETS 4-V

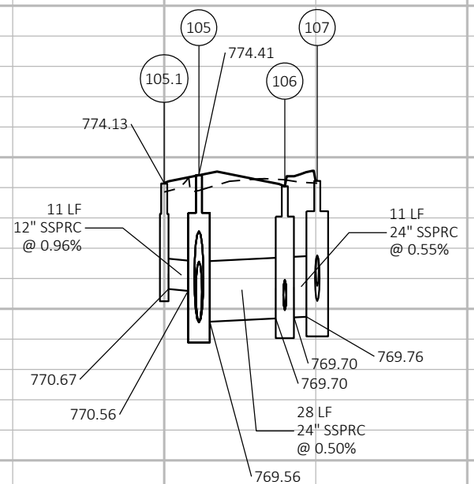
STA 103'WB'+57, 12.9' RT
INLETS 2x3-HM-S 106.1

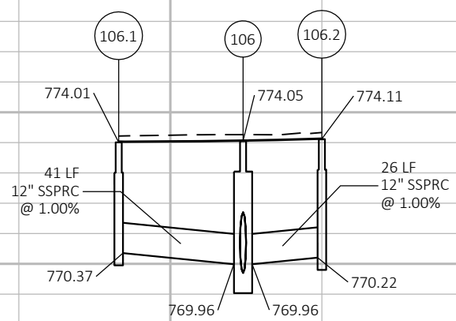
STA 103'EB'+73, 1.5' LT
INLETS 2x3-HM 107.1

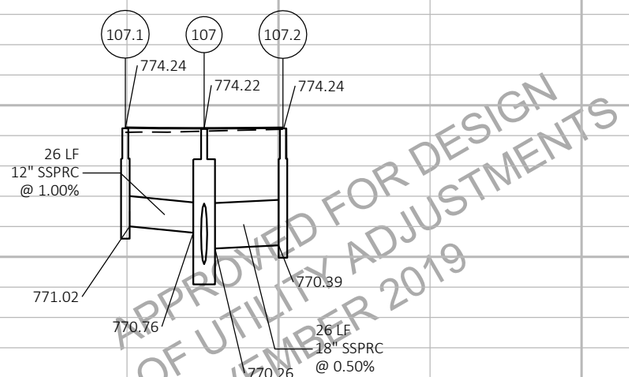
STA 103 'EB'+99, 1.5' LT
CATCH BASINS 5-HM-S 107

107.2 STA 104 'EB'+25, 1.5' LT
INLETS 2X3-HM

CONNECT STORM SEWER PIPE
TO EXISTING INLET REQUIRED







- ELEVATIONS SHOWN FOR MANHOLES ARE AT RIM OF MANHOLE COVER AND FOR INLETS ARE AT FLOWLINE OF CURB AND GUTTER OR BOTTOM OF DITCH

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	STORM SEWER - STH 15	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\022501_SS.DWG
LAYOUT NAME - 022502_SS
PLOT DATE : 11/5/2019 2:19 PM
PLOT BY : FARRELL, ALAN E
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 41

2

2

100 STA 100 'WB'+67, 101.8' LT
APRON ENDWALLS FOR CPRC 12-INCH

102 STA 101 'WB'+18, 103.0' LT
APRON ENDWALLS FOR CPRCHE 29X45-INCH

STA 103'WB'+55, 29.5' LT
INLETS 2x3-HM 104.1

105.1 STA 103 'WB'+95, 29.5' LT
INLETS 2X3-HM-S

103 STA 102 'WB'+24, 18.0' LT
MANHOLES 5-J-SPECIAL

105 STA 103 'WB'+95, 18.0' LT
MANHOLES 6-J-SPECIAL

108 STA 105 'WB'+92, 47.6' LT
APRON ENDWALLS FOR CPRC 24-INCH

STA 103 'WB'+55, 18.0' LT
MANHOLES 5-J-SPECIAL 104

106 STA 103 'WB'+98, 9.6' RT
CATCH BASINS 5-HM

100.1 STA 100 'WB'+75, 24.8' LT
INLETS 3-V

106.2 STA 104'WB'+24, 7.6' RT
INLETS 2x3-HM

100'WB' 101'WB' 102'WB' 103'WB' 104'WB' 105'WB' 106'WB' 107'WB'

100'EB' 102'EB' 104'EB' 106'EB'

101.2 STA 100 'EB'+88, 44.2' RT
INLETS 4-V

STA 103'WB'+57, 12.9' RT
INLETS 2x3-HM-S 106.1

STA 103'EB'+73, 1.5' LT
INLETS 2x3-HM 107.1

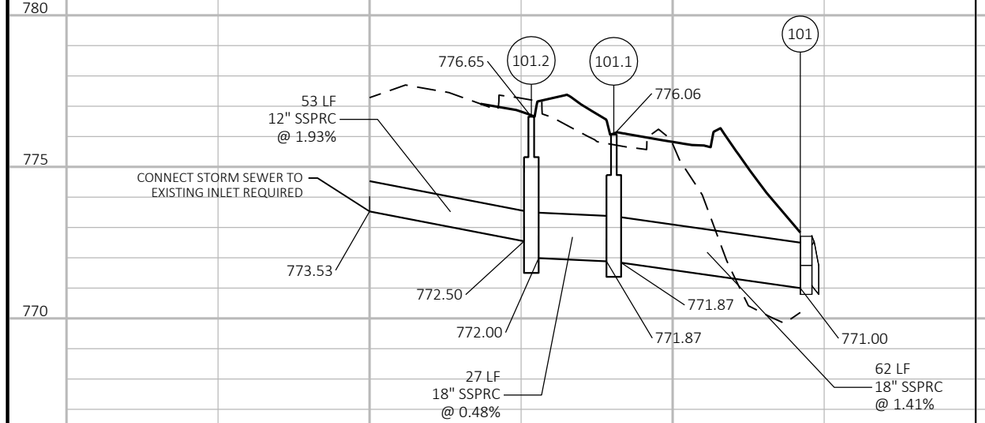
CONNECT STORM SEWER PIPE
TO EXISTING INLET REQUIRED

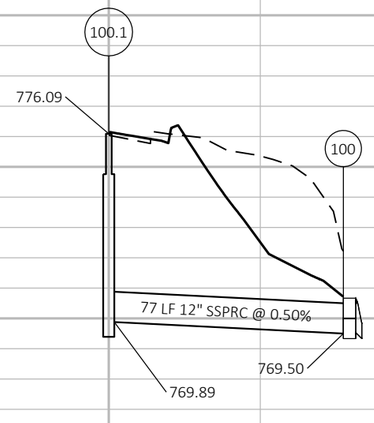
101.1 STA 101 'EB'+15, 38.8' RT
INLETS 4-V

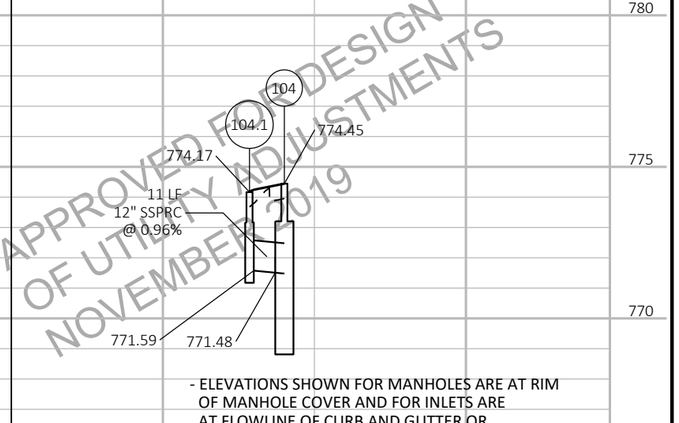
STA 103 'EB'+99, 1.5' LT
CATCH BASINS 5-HM-S 107

107.2 STA 104 'EB'+25, 1.5' LT
INLETS 2X3-HM

101 STA 101 'EB'+53, 86.9' RT
APRON ENDWALLS FOR CPRC 18-INCH







APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

- ELEVATIONS SHOWN FOR MANHOLES ARE AT RIM OF MANHOLE COVER AND FOR INLETS ARE AT FLOWLINE OF CURB AND GUTTER OR BOTTOM OF DITCH

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	STORM SEWER	SHEET E

PRE_76

2

CONNECT STORM SEWER PIPE
TO EXISTING CULVERT REQUIRED &
CONCRETE COLLAR FOR PIPE REQUIRED

43 STA 43 'USH'+53, 14.6' LT
INLETS 2X3-HM-GJ

STA 43 'USH'+23, 12.8' LT 43.2
INLETS 2X3-HM-GJ

43.1 STA 43 'USH'+52, 1.3' LT
INLETS 2X3-HM-GJ

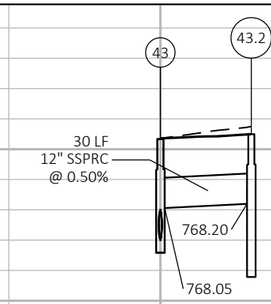
CONCRETE COLLAR REQUIRED

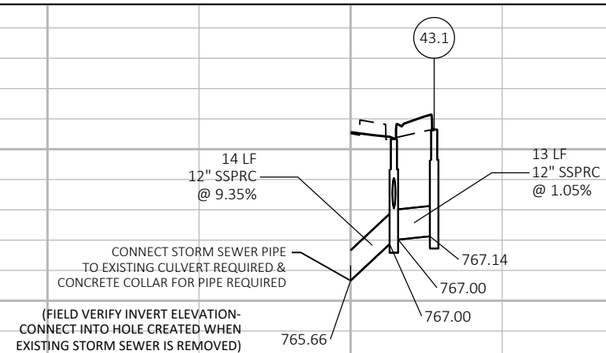
STA 48 'USH'+02, 1.3' LT 48
INLETS 2X3-HM-GJ

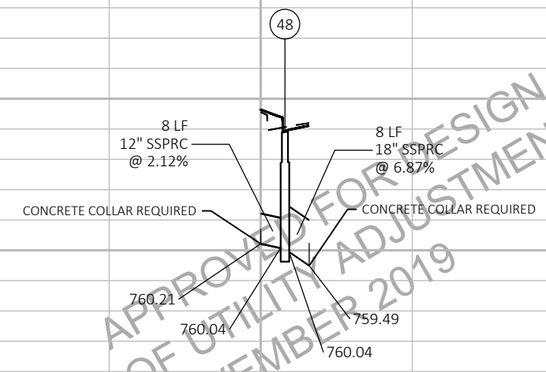
CONCRETE COLLAR REQUIRED

41'USH' 42'USH' 43'USH' 44'USH' 45'USH' 46'USH' 47'USH' 48'USH'

INL MH GUY SS







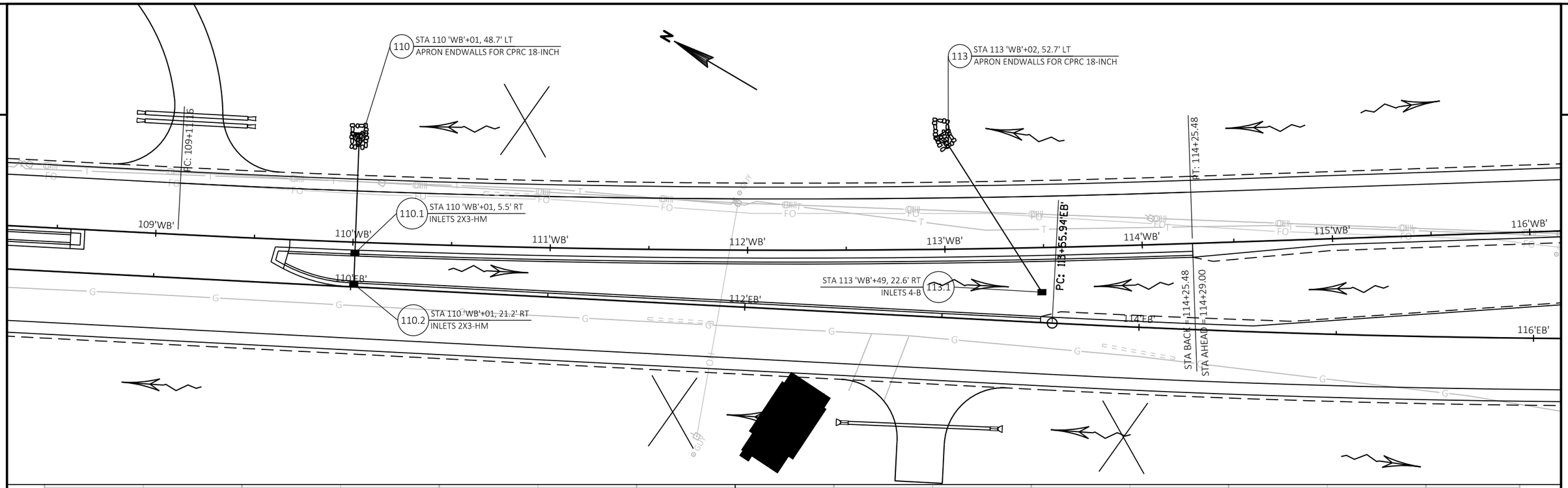
770 765 760 755 750

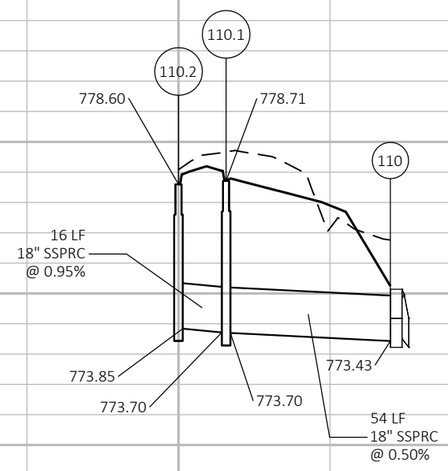
- ELEVATIONS SHOWN FOR MANHOLES ARE AT RIM OF MANHOLE COVER AND FOR INLETS ARE AT FLOWLINE OF CURB AND GUTTER OR BOTTOM OF DITCH

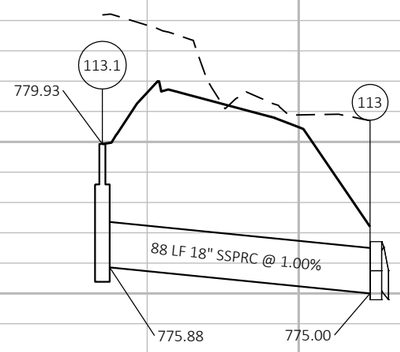
APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	STORM SEWER - STH 15	SHEET E

2







- ELEVATIONS SHOWN FOR MANHOLES ARE AT RIM OF MANHOLE COVER AND FOR INLETS ARE AT FLOWLINE OF CURB AND GUTTER OR BOTTOM OF DITCH

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	STORM SEWER	SHEET E

PRE_78

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\022501_SS.DWG
LAYOUT NAME - 022505_ss

PLOT DATE : 11/5/2019 2:20 PM PLOT BY : FARRELL, ALAN E PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 41

2

STA 120 'WB'+69, 62.4' LT
APRON ENDWALLS FOR CPRC 18-INCH
120

STA 120 'WB'+69, 20.4' RT
INLETS 4-B-A
120.1

STA 120 'WB'+98, 27.9' RT
INLETS 4-HM-S
120.2

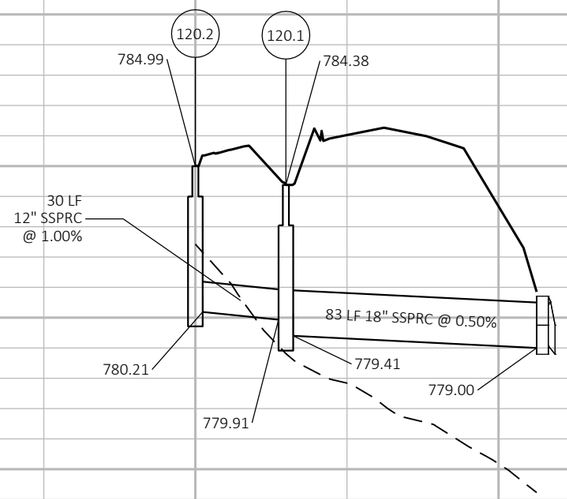
STA 122 'WB'+02, 62.5' LT
APRON ENDWALLS FOR CPRC 18-INCH
122

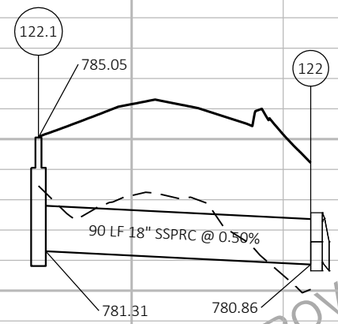
STA 121 'WB'+82, 25.9' RT
INLETS 4-HM-S
122.1

117'WB' 118'WB' 119'WB' 120'WB' 121'WB' 122'WB' 123'WB' 124'WB'

118'EB' 120'EB' 122'EB' 124'EB'

PT: 118+70.27EB





790 785 780 775 770

- ELEVATIONS SHOWN FOR MANHOLES ARE AT RIM OF MANHOLE COVER AND FOR INLETS ARE AT FLOWLINE OF CURB AND GUTTER OR BOTTOM OF DITCH

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	STORM SEWER	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\022501_SS.DWG
LAYOUT NAME - 022506_ss
PLOT DATE : 11/5/2019 2:20 PM
PLOT BY : FARRELL, ALAN E
PLOT NAME :
PLOT SCALE : ##########

2

2

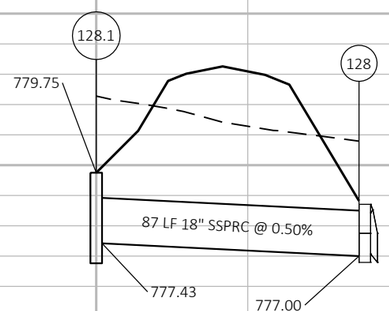
128 STA 128 'WB'+00, 57.0' LT
APRON ENDWALLS FOR CPRC 18-INCH

126'WB' 127'WB' 128'WB' 129'WB' 130'WB' 131'WB' 132'WB'

128.1 STA 128 'WB'+00, 29.7' RT
INLETS MEDIAN 1G-MS

126'EB' 128'EB' 130'EB' 132'EB'

790 785 780 775 770



- ELEVATIONS SHOWN FOR MANHOLES ARE AT RIM OF MANHOLE COVER AND FOR INLETS ARE AT FLOWLINE OF CURB AND GUTTER OR BOTTOM OF DITCH

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	STORM SEWER	SHEET E

PRE_80

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\022501_SS.DWG
LAYOUT NAME - 022507_ss
PLOT DATE : 11/5/2019 2:20 PM PLOT BY : FARRELL, ALAN E PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 41

2

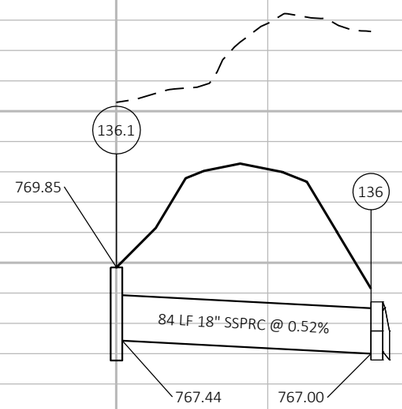
136 STA 136 'WB'+00, 55.2' LT
APRON ENDWALLS FOR CPRC 18-INCH

136.1 STA 136 'WB'+00, 28.8' RT
INLETS MEDIAN 1G-MS

134'WB' 135'WB' 136'WB' 137'WB' 138'WB' 139'WB' 140'WB'

134'EB' 136'EB' 138'EB' 140'EB'

780
775
770
765
760



- ELEVATIONS SHOWN FOR MANHOLES ARE AT RIM OF MANHOLE COVER AND FOR INLETS ARE AT FLOWLINE OF CURB AND GUTTER OR BOTTOM OF DITCH

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	STORM SEWER	SHEET E

PRE_81

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\022501_SS.DWG
LAYOUT NAME - 022508_ss
PLOT DATE : 11/5/2019 2:20 PM PLOT BY : FARRELL, ALAN E PLOT NAME : PLOT SCALE : ##########

SEE STRUCTURE PLANS FOR C-44-121

142 STA 142 'WB'+20, 54.0' LT
APRON ENDWALLS FOR CPRC 18-INCH

142.1 STA 142 'WB'+20, 25.7' RT
INLETS MEDIAN 2G-MS

PC: 143+15.35

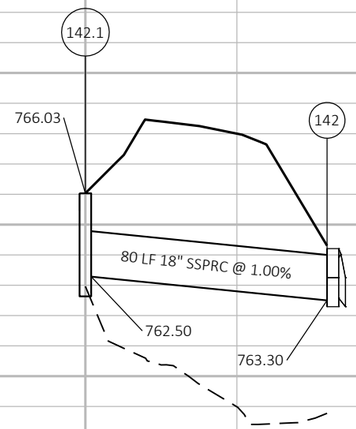
149 STA 148 'WB'+91, 50.9' LT
APRON ENDWALLS FOR CPRC 18-INCH

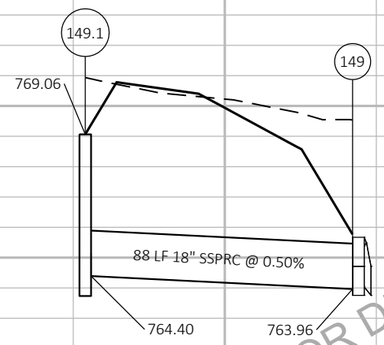
149.1 STA 148 'WB'+91, 37.3' RT
INLETS MEDIAN 1G-MS

142'WB' 143'WB' 144'WB' 145'WB' 146'WB' 147'WB' 148'WB' 149'WB'

142'EB' 144'EB' 146'EB' 148'EB'

TV FO T G





770 765 760 755 750

- ELEVATIONS SHOWN FOR MANHOLES ARE AT RIM OF MANHOLE COVER AND FOR INLETS ARE AT FLOWLINE OF CURB AND GUTTER OR BOTTOM OF DITCH

APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	STORM SEWER	SHEET E

PRE_82

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\022501_SS.DWG
LAYOUT NAME - 022509_ss
PLOT DATE : 11/5/2019 2:20 PM PLOT BY : FARRELL, ALAN E PLOT NAME : PLOT SCALE : ##########

2

153 STA 152 'WB'+96, 50.7' LT
APRON ENDWALLS FOR CPRC 18-INCH

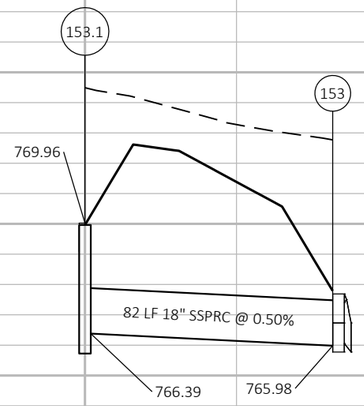
153.1 STA 152 'WB'+96, 31.1' RT
INLETS MEDIAN 1G-MS

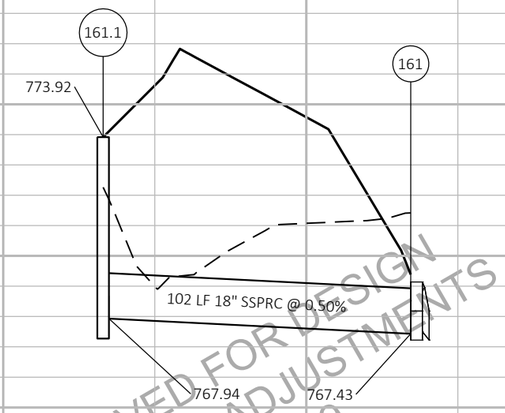
161 STA 160 'WB'+27, 61.2' LT
APRON ENDWALLS FOR CPRC 18-INCH

161.1 STA 160 'WB'+27, 40.3' RT
INLETS MEDIAN 1G-MS

153'WB' 154'WB' 155'WB' 156'WB' 157'WB' 158'WB' 159'WB' 160'WB'

154'EB' 156'EB' 158'EB' 160'EB'





- ELEVATIONS SHOWN FOR MANHOLES ARE AT RIM OF MANHOLE COVER AND FOR INLETS ARE AT FLOWLINE OF CURB AND GUTTER OR BOTTOM OF DITCH

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	STORM SEWER	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\022501_SS.DWG
LAYOUT NAME - 022510_ss
PLOT DATE : 11/5/2019 2:20 PM
PLOT BY : FARRELL, ALAN E
PLOT NAME :
PLOT SCALE : ##########

2

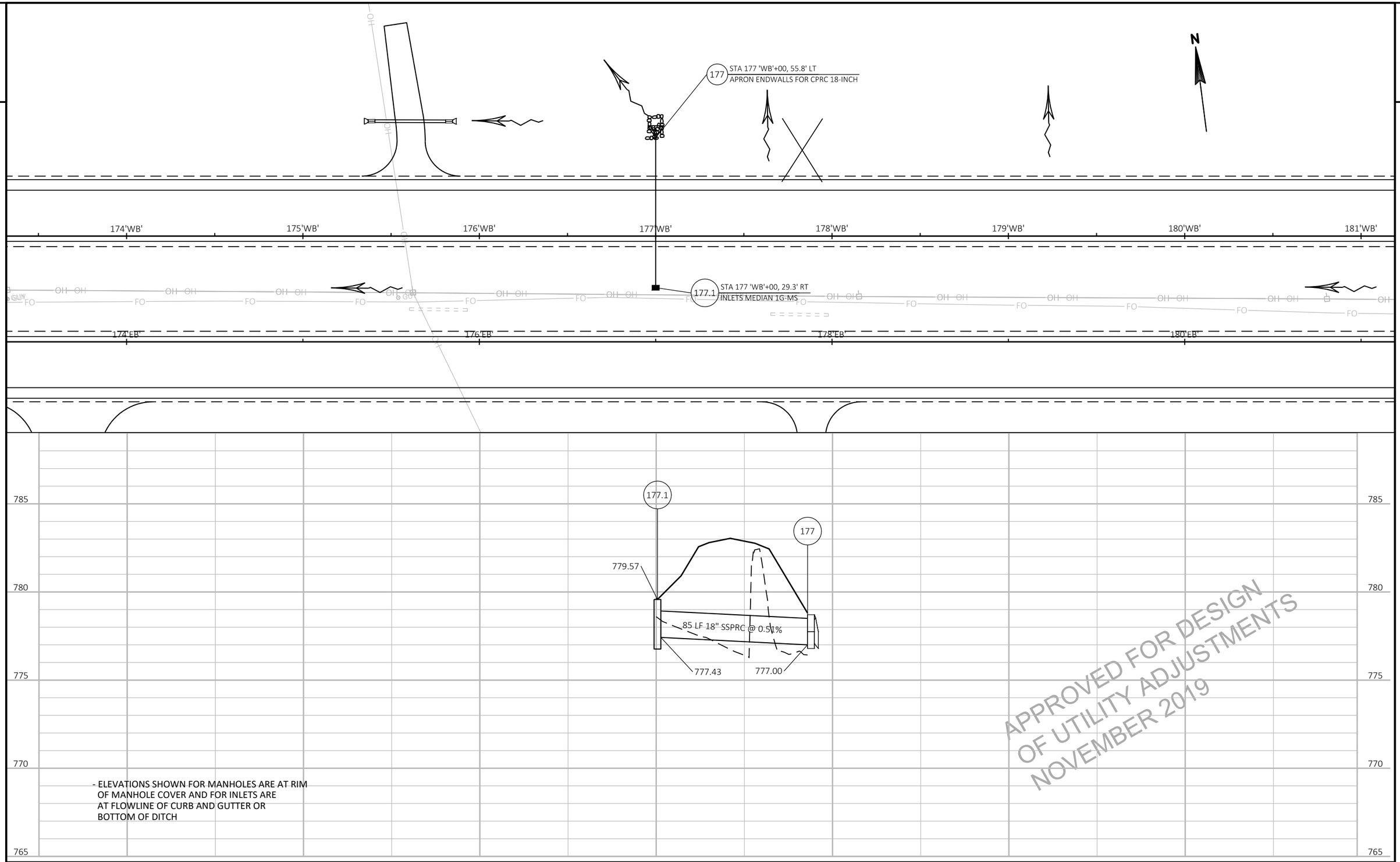
N

STA 168 'WB'+00, 57.5' LT
APRON ENDWALLS FOR CPRC 18-INCH
168

B' 165'WB' 166'WB' 167'WB' 168'WB' 169'WB' 170'WB' 171'WB'

OH OH OH

2



- ELEVATIONS SHOWN FOR MANHOLES ARE AT RIM OF MANHOLE COVER AND FOR INLETS ARE AT FLOWLINE OF CURB AND GUTTER OR BOTTOM OF DITCH

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	STORM SEWER	SHEET E

PRE_85

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\022501_SS.DWG
LAYOUT NAME - 022512_ss
PLOT DATE : 11/5/2019 2:20 PM
PLOT BY : FARRELL, ALAN E
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 41

2

N

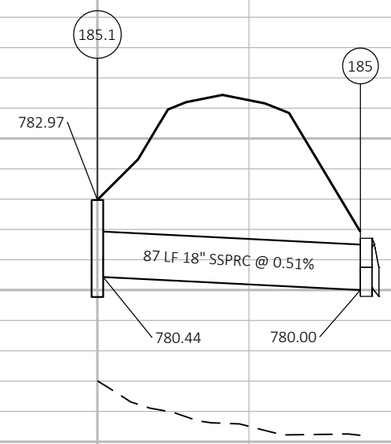
185 STA 185 'WB'+50, 57.5' LT
APRON ENDWALLS FOR CPRC 18-INCH

182'WB' 183'WB' 184'WB' 185'WB' 186'WB' 187'WB' 188'WB' 189'WB'

182'EB' 184'EB' 186'EB' 188'EB'

185.1 STA 185 'WB'+50, 29.3' RT
INLETS MEDIAN 1G-MS

790 785 780 775 770



- ELEVATIONS SHOWN FOR MANHOLES ARE AT RIM OF MANHOLE COVER AND FOR INLETS ARE AT FLOWLINE OF CURB AND GUTTER OR BOTTOM OF DITCH

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	STORM SEWER	SHEET E

PRE_86

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\022501_SS.DWG
LAYOUT NAME - 022513_ss
PLOT DATE : 11/5/2019 2:21 PM PLOT BY : FARRELL, ALAN E PLOT NAME : PLOT SCALE : ##########

2

N

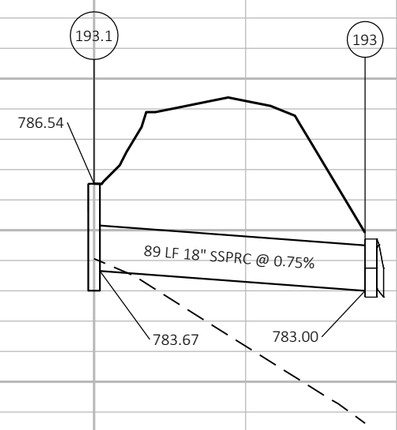
193 STA 192 'WB'+85, 57.2' LT
APRON ENDWALLS FOR CPRC 18-INCH

193.1 STA 192 'WB'+85, 32.2' RT
INLETS MEDIAN 1G-MS

190'WB' 191'WB' 192'WB' 193'WB' 194'WB' 195'WB' 196'WB' 197'WB'

190'EB' 192'EB' 194'EB' 196'EB'

795 790 785 780 775



- ELEVATIONS SHOWN FOR MANHOLES ARE AT RIM OF MANHOLE COVER AND FOR INLETS ARE AT FLOWLINE OF CURB AND GUTTER OR BOTTOM OF DITCH

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	STORM SEWER	SHEET E

PRE_87

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\022501_SS.DWG
LAYOUT NAME - 022514_ss

PLOT DATE : 11/5/2019 2:21 PM PLOT BY : FARRELL, ALAN E PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 41

STA 201 'WB'+50, 61.7' LT
APRON ENDWALLS FOR CPRC 18-INCH
201

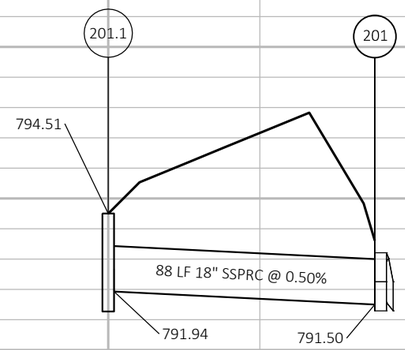
STA 201 'WB'+50, 26.3' RT
INLETS MEDIAN 1G-MS
201.1

N

199'WB' 200'WB' 201'WB' 202'WB' 203'WB' 204'WB' 205'WB'

199'EB' 200'EB' 202'EB' 204'EB'

FO OH



800 795 790 785 780

- ELEVATIONS SHOWN FOR MANHOLES ARE AT RIM OF MANHOLE COVER AND FOR INLETS ARE AT FLOWLINE OF CURB AND GUTTER OR BOTTOM OF DITCH

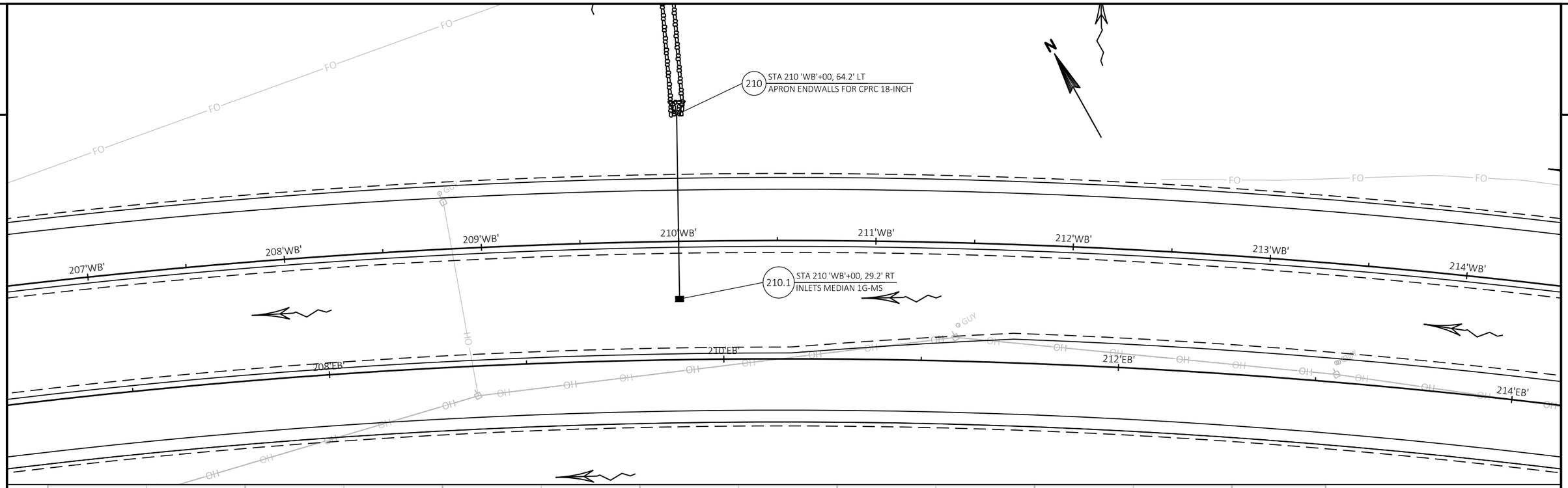
APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	STORM SEWER	SHEET E

PRE_88

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\022501_SS.DWG
LAYOUT NAME - 022515_ss
PLOT DATE : 11/5/2019 2:21 PM PLOT BY : FARRELL, ALAN E PLOT NAME : PLOT SCALE : ##########

2



825
820
815
810
805

- ELEVATIONS SHOWN FOR MANHOLES ARE AT RIM OF MANHOLE COVER AND FOR INLETS ARE AT FLOWLINE OF CURB AND GUTTER OR BOTTOM OF DITCH

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	STORM SEWER	SHEET E

2

216.1 STA 216 'EB'+66, 28.4' LT
INLETS MEDIAN 1G-MS

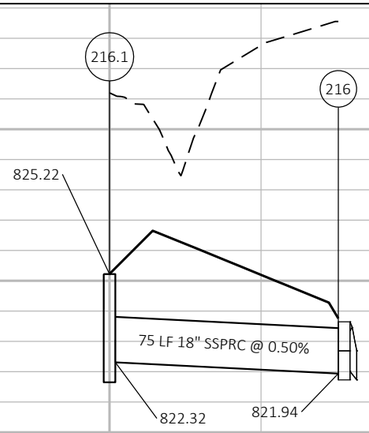
216 STA 216 'EB'+66, 47.1' RT
APRON ENDWALLS FOR CPRC 18-INCH

216'WB' 217'WB' 218'WB' 219'WB' 220'WB' 221'WB' 222'WB'

216'EB' 218'EB' 220'EB' 222'EB'

PT: 218+78.08

STA BACK = 218+78.08
STA AHEAD = 218+40.44
L = 38.44' EE



830 825 820 815 810

- ELEVATIONS SHOWN FOR MANHOLES ARE AT RIM OF MANHOLE COVER AND FOR INLETS ARE AT FLOWLINE OF CURB AND GUTTER OR BOTTOM OF DITCH

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	STORM SEWER	SHEET E

PRE_90

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\022501_SS.DWG
LAYOUT NAME - 022517_ss

PLOT DATE : 11/5/2019 2:21 PM PLOT BY : FARRELL, ALAN E PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 41

2

227 STA 227 'WB'+51, 59.5' LT
APRON ENDWALLS FOR CPRC 18-INCH

SEE STRUCTURE PLANS FOR C-44-122

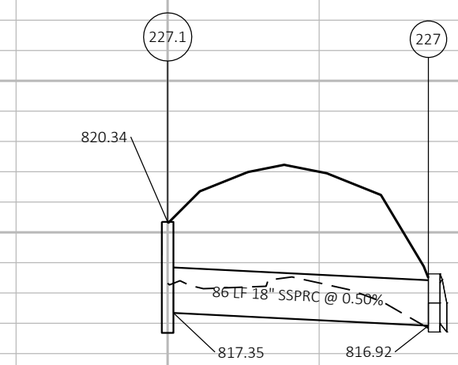
STA 230 'WB'+38, 62.7' LT
APRON ENDWALLS FOR CPRC 18-INCH 231

225'WB' 226'WB' 227'WB' 228'WB' 229'WB' 230'WB' 231'WB' 232'WB'

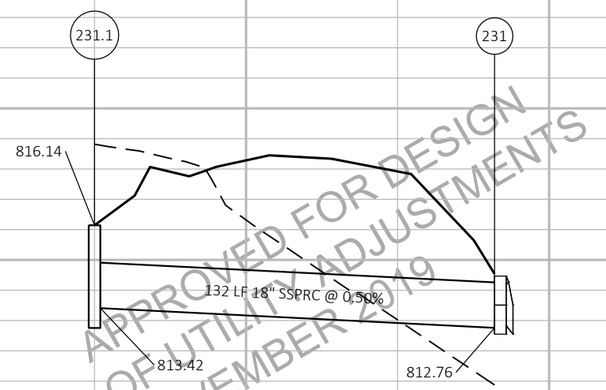
STA 231 'WB'+35, 27.3' RT
INLETS MEDIAN 1G-MS 231.1

226'EB' 228'EB' 230'EB' 232'EB'

227.1 STA 227 'WB'+51, 26.5' RT
INLETS MEDIAN 1G-MS



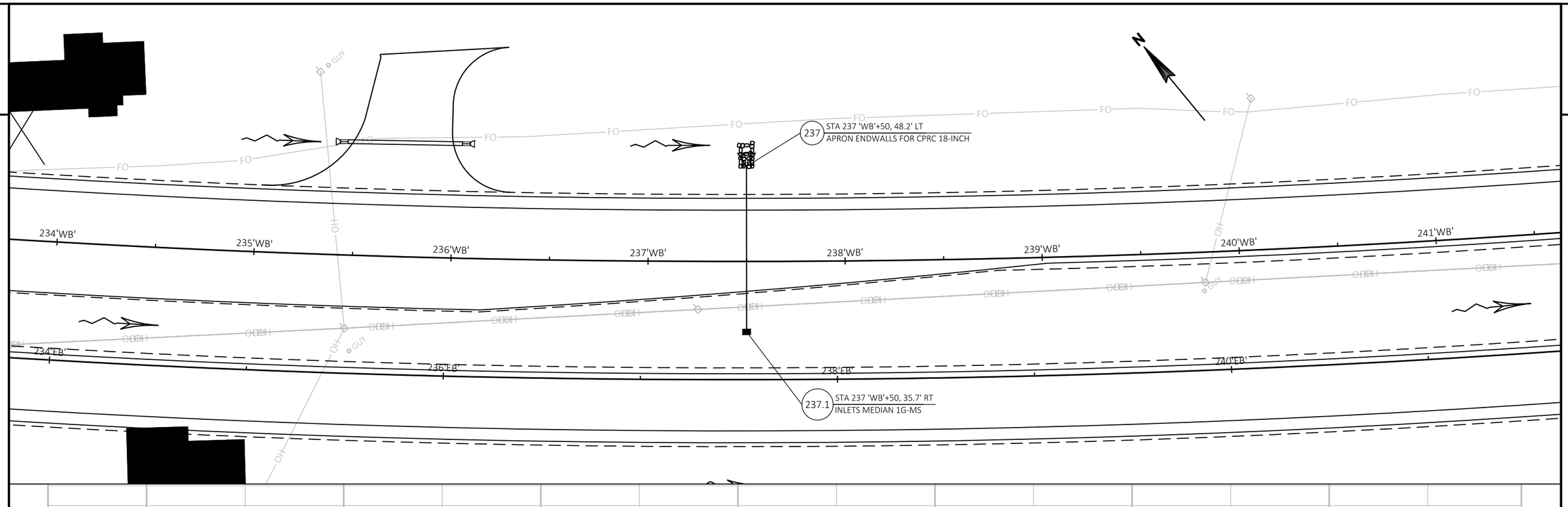
- ELEVATIONS SHOWN FOR MANHOLES ARE AT RIM OF MANHOLE COVER AND FOR INLETS ARE AT FLOWLINE OF CURB AND GUTTER OR BOTTOM OF DITCH

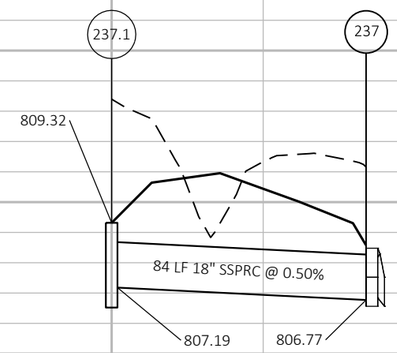


APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	STORM SEWER	SHEET E

2





815
810
805
800
795

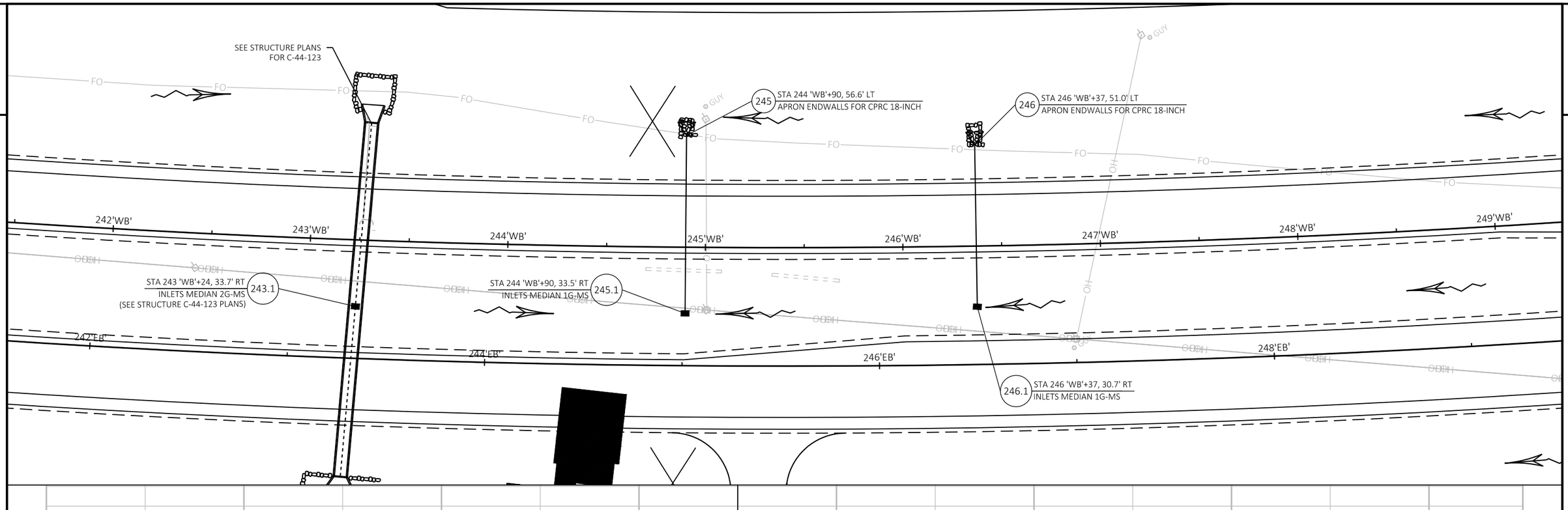
- ELEVATIONS SHOWN FOR MANHOLES ARE AT RIM OF MANHOLE COVER AND FOR INLETS ARE AT FLOWLINE OF CURB AND GUTTER OR BOTTOM OF DITCH

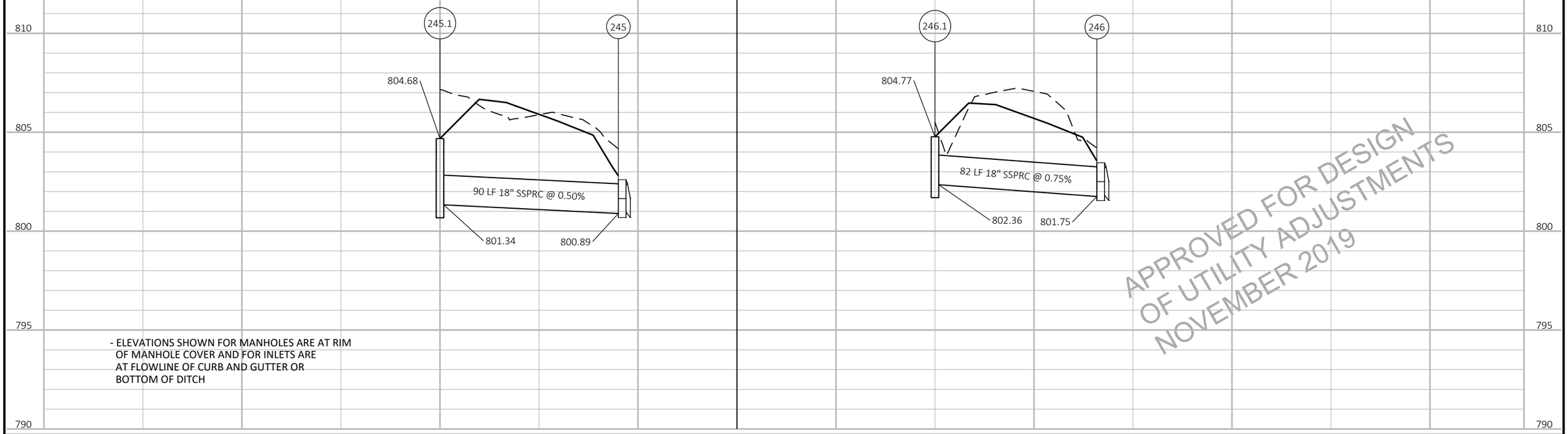
APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	STORM SEWER	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\022501_SS.DWG
LAYOUT NAME - 022519_ss
PLOT DATE : 11/5/2019 2:21 PM
PLOT BY : FARRELL, ALAN E
PLOT NAME :
PLOT SCALE : ##########

2





- ELEVATIONS SHOWN FOR MANHOLES ARE AT RIM OF MANHOLE COVER AND FOR INLETS ARE AT FLOWLINE OF CURB AND GUTTER OR BOTTOM OF DITCH

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	STORM SEWER	SHEET E

2

252 STA 252 'WB'+75, 58.6' LT
APRON ENDWALLS FOR CPRC 18-INCH

252.1 STA 251 'WB'+43, 35.0' RT
INLETS MEDIAN 1G-MS

250'WB' 251'WB' 252'WB' 253'WB' 254'WB' 255'WB' 256'WB' 257'WB'

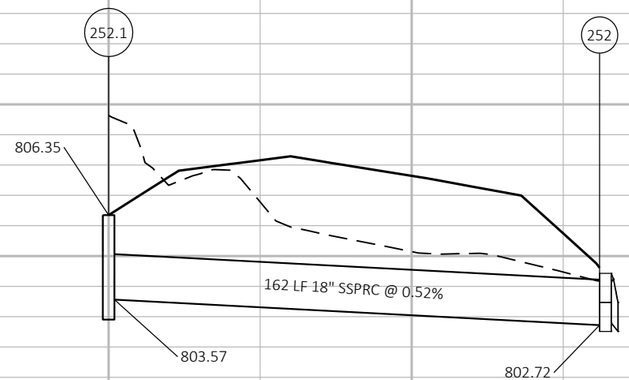
250'EB' 252'EB' 254'EB' 256'EB'

PT: 256+69.34

STA BACK = 256+69.34
STA AHEAD = 256+92.48

PT: 256+92.48'EB'

FO OHH



815 810 805 800 795

- ELEVATIONS SHOWN FOR MANHOLES ARE AT RIM OF MANHOLE COVER AND FOR INLETS ARE AT FLOWLINE OF CURB AND GUTTER OR BOTTOM OF DITCH

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	STORM SEWER	SHEET E

PRE_94

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\022501_SS.DWG
LAYOUT NAME - 022521_ss

PLOT DATE : 11/5/2019 2:22 PM PLOT BY : FARRELL, ALAN E PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 41

2

2

WISCONSIN CENTRAL LTD

422'RRA'

424'RRA

P.L.

FRICK, JERRY A

R/W

STATE OF WISCONSIN
DEPARTMENT OF
TRANSPORTATION

RUINS

SLOPE INTERCEPT (TYP)

OBERST

18" CPCM

TLE

PLE

102'WB'

104'WB'

106'WB'

108'WB'

110'WB'

112'WB'

114'WB'

102'EB'

104'EB'

106'EB'

108'EB'

110'EB'

112'EB'

114'EB'

STH 15

36'USH'

USH 45

BEGIN PROJECT
STA 100+49.00
Y=602,275.125
X=743,951.713

36" CPRC

15" CPCM

SELLS, THOMAS J

HORTONIA RIVER
ROAD LLC

HORTONIA

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

MATCH LINE 115+50

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	UTILITY PLAN - STH 15	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSOTHER\UTILITY COORDINATION\023001-UP.DWG
LAYOUT NAME - 023001-up

PLOT DATE : 10/31/2019 10:17 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:100 FT

PRE_95

WISDOT/CADDS SHEET 42

2

OBERSTADT, RUSSELL J

R/W

RIVER RD

24" RVR

TLE

24" CPCM

LATHROP,
DAVID & JON

SLOPE INTERCEPT (TYP)

R/W

MATCH LINE 115+50

116'WB' 118'WB' 120'WB' 122'WB' 124'WB' 126'WB' 128'WB' 130'WB'

116'EB' 118'EB' 120'EB' 122'EB' 124'EB' 126'EB' 128'EB' 130'EB'

STH 15

OAK

SIGN T

MATCH LINE 130+50

R/W

24" CPCM

RIVER ROAD LLC

TLE

ORT, THOMAS

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

LATHROP,

ORT, THOMAS

2

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	UTILITY PLAN - STH 15	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSOTHER\UTILITY COORDINATION\023001-UP.DWG
LAYOUT NAME - 023002-up

PLOT DATE : 10/31/2019 10:18 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:100 FT

PRE_96

WISDOT/CADDS SHEET 42

2

2

LATHROP, DAVID & JON

R/W

P.L.

STATE OF WISCONSIN
DEPARTMENT OF
TRANSPORTATION

LATHROP, DAVID & JON

R/W

P.L.

MATCH LINE 130+50

MATCH LINE 145+50

132'WB' 134'WB' 136'WB' 138'WB' STH 15 140'WB' 142'WB' 144'WB'

132'EB' 134'EB' 136'EB' 138'EB' 140'EB' 142'EB' 144'EB'

STH 15

STH 15

18" CPCM

24"

108" CPCM

RIPRAP

R/W

SLOPE INTERCEPT (TYP)

DAVID & JON

LATHROP, DAVID & JON

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	UTILITY PLAN - STH 15	SHEET E

PRE_97

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSOTHER\UTILITY COORDINATION\023001-UP.DWG
LAYOUT NAME - 023003-up

PLOT DATE : 10/31/2019 10:18 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

LATHROP, DAVID & JON

FAITH CHRISTIAN CHURCH

LATHROP, DAVID & JON

CAREW CONCRETE SUPPLY CO., INC.

WALLS

WALLS

2" PVC

TLE

18" CPCM

MATCH LINE 145+50

MATCH LINE 160+50

R/W

P.L.

146'WB'

146'EB'

148'WB'

148'EB'

150'WB'

150'EB'

152'WB'

154'WB'

154'EB'

156'WB'

156'EB'

158'WB'

158'EB'

160'EB'

30'CRS'

28'CRS'

26'CRS'

50'ED'

48'ED'

OH

TV

FO

G

T

GUY

STH 15

CROSS RD

LEDGE HILL RD

R/W

OAK

TLE

18" CPCM

20'X28' CPCMPA

24" CPCM

SLOPE INTERCEPT (TYP)

BERT, BRIAN J

BERT, BRIAN J

BYRUM, WAYNE H

BYRUM, WAYNE

SULLIVAN HOMESTEAD, LLC

48" CPRC

36" CPRC

APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	UTILITY PLAN - STH 15	SHEET E

PRE_98

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSOTHER\UTILITY COORDINATION\023001-UP.DWG
LAYOUT NAME - 023004-up

PLOT DATE : 10/31/2019 10:18 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

SULLIVAN, EDWARD

BROMELAND, DONALD K JR

SUSZKO, JOAN S

SULLIVAN, EDWARD J

REW CONCRETE
UPPLY CO., INC.

WALLS
W
TANKS
A/C
SIGN
P.L.
R/W

MATCH LINE 160+50

MATCH LINE 175+50

162'WB' 164'WB' 166'WB' 168'WB' 170'WB' 172'WB' 174'WB'

162'EB' 164'EB' 166'EB' 168'EB' 170'EB' 172'EB' 174'EB'

STH 15

STH 15

STH 15

18" CPCM

18" CPCM

18" CPCM

24" CPCM

12" CPCM

" CPCM

OH OH FO G GUY

SLOPE INTERCEPT (TYP)

SEPC SEPV

PANKOW, GARY L

SULLIVAN HOMESTEAD, LLC

SCHMIDT, PAUL A
& SUSAN M

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

N

2

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	UTILITY PLAN - STH 15	SHEET E

PRE_99

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSOTHER\UTILITY COORDINATION\023001-UP.DWG
LAYOUT NAME - 023005-up

PLOT DATE : 10/31/2019 10:19 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

BROMELAND, DONALD K JR

P.L.

KARPF, CHAD A

LAND, KELLY J

LAND, KELLY J

LAND,

PIER

TLE

R/W

SLOPE INTERCEPT (TYP)

MATCH LINE 175+50

MATCH LINE 190+50

176'WB' 178'WB' 180'WB' 182'WB' 184'WB' 186'WB' 188'WB' 190'WB'

STH 15

WELL

18" CPCM

OH OH FO

176'EB' 178'EB' 180'EB' 182'EB' 184'EB' 186'EB' 188'EB' 190'EB'

GUY

STH 15

STH 15

STH 15

30" CPCM

24" CPCM

BERM

W

POOL

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

LAUER, PETER A & WENDY K

LAUER,

KARPF, CHAD A

KARPF, CHAD A

LAUER, PETER A & WENDY K

N

2

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	UTILITY PLAN - STH 15	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSOTHER\UTILITY COORDINATION\023001-UP.DWG
LAYOUT NAME - 023006-up

PLOT DATE : 10/31/2019 10:19 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:100 FT

PRE_100

WISDOT/CADDS SHEET 42

2

2

N

BERNEGGER, PAUL G
& TAMMY L

BERNEGGER, PAUL G

KELLY J

JANE C SCH

TLE

24" CPCP

R/W

SLOPE INTERCEPT (TYP)

STH 15

192'WB'
194'WB'
196'WB'
198'WB'
200'WB'
202'WB'
204'WB'

192'EB'
194'EB'
196'EB'
198'EB'
200'EB'
202'EB'
204'EB'

FO
OH
GUY
SIGN
OAK

MATCH LINE 190+50

MATCH LINE 205+50

18" CPCM

TLE

SIGN POSTS

FLAG
FLAG

36" CPCM

BUNNELL, MICHAEL

HEDTKE, RANDAL L

PETER A & WENDY K

LATH

P.L.

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	UTILITY PLAN - STH 15	SHEET E

PRE_101

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSOTHER\UTILITY COORDINATION\023001-UP.DWG
LAYOUT NAME - 023007-up

PLOT DATE : 10/31/2019 10:20 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

JANE C SCHIEDERMAYER REV TRUST

FAMILY FLOORS LLC

FAMILY FLOORS LLC

SCHIEDERMAYER, JACOB W & DANA RAE

ERMAYER REV TRUST

24" CPCM

18" CPCM

18" CPCM

18" CPCM

OAK

OAK R/W

FO

STH 15

206'WB'

208'WB'

210'WB'

212'WB'

214'WB'

216'WB'

218'WB'

220'WB'

206'EB'

208'EB'

210'EB'

212'EB'

214'EB'

216'EB'

218'EB'

220'EB'

GUY

OH

MATCH LINE 205+50

MATCH LINE 220+50

SLOPE INTERCEPT (TYP)

R/W

TLE

P.L.

TANKS

WALLS

SEPTIC

ROP, TED J

LATHROP, TED J

LATHROP, TED J

THOMPSON, SAMUEL F & ELISABETH L

MERCER, DANIEL L

APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	UTILITY PLAN - STH 15	SHEET E

PRE_102

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSOTHER\UTILITY COORDINATION\023001-UP.DWG
LAYOUT NAME - 023008-up

PLOT DATE : 10/31/2019 10:20 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

JANE C SCHIEDERMAYER REV TRUST

EDERMAYER, DEAN A

SCHIEDERMAYER, JAMES R & FAITH R

WOLF, GARY C

WOLFRATH, RICHARD L

& KATHRYN E

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

STATE OF WISC DEPARTMENT TRANSPORTA

LATHROP, THOMAS & MARY ANN

LAYNE D & JUDITH A CARLSON LIVING TRUST

KRIEWALDT, DALE R & VIRGINIA L

LATHROP, TED J & MELISSA J

IVES, MICHAEL R & JULIE K

SEABORNE, SCO

STH 15

KELLY DR

18" CPCM

15" CPCM

24" CPCM

18" CPRC

38"X57" CPCMPA

12" CPCM

C-44-24-59 4X4 CONC BOX

SLOPE INTERCEPT (TYP)

TLE

R/W

P.L.

MATCH LINE 220+50

MATCH LINE 235+50

222'WB' 224'WB' 226'WB' 228'WB' 230'WB' 232'WB' 234'WB'

222'EB' 224'EB' 226'EB' 228'EB' 230'EB' 232'EB' 234'EB'

OAK OH FO GUY

APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS SEPTEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	UTILITY PLAN - STH 15	SHEET PRE_103 E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSOTHER\UTILITY COORDINATION\023001-UP.DWG
LAYOUT NAME - 023009-up

PLOT DATE : 10/31/2019 10:21 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

WOLFRATH'S NURSERY & LANDSCAP, LLC

WOLFRATH, ROBERT H & DARLENE M.

WOLFRATH, ROBERT H & DARLENE M.

NURSERY

RUINS

WALLS

TLE

R/W

P.L.

42" CPCM

OAK

FO

GUY

OH

CCOH

236'WB'

238'WB'

240'WB'

242'WB'

244'WB'

246'WB'

248'WB'

250'WB'

236'EB'

238'EB'

240'EB'

242'EB'

244'EB'

246'EB'

248'EB'

250'EB'

STH 15

18" CPCM

MATCH LINE 235+50

MATCH LINE 250+50

STATE OF WIS DEPT OF TRANS

C-44-23-59

4'X4' CONC BOX

FOOTBRIDGE

SLOPE INTERCEPT (TYP)

MARTIN, RODNEY F

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	UTILITY PLAN - STH 15	SHEET E

PRE_104

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSOTHER\UTILITY COORDINATION\023001-UP.DWG
LAYOUT NAME - 023010-up

PLOT DATE : 10/31/2019 10:21 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

SAMBS, KEVIN

SAMBS, KEVIN

STATE OF WIS
DEPARTME
TRANSPORT

TLE

P.L.

R/W

SLOPE INTERCEPT (TYP)

R/W

END PROJECT
STA 255+77.76

MATCH LINE 250+50

252'WB'

STH 15

254'WB'

256 WB'

258'WB'

260'WB'

262'WB'

264'WB'

252'EB'

254'EB'

250'EB'

258'EB'

260'EB'

262'EB'

264'EB'

STH 15

STH 15

FO

OH

OHH

R/W

TLE

SIGN

P.L.

GAIGG, ELIZABETH

36" CPCM

BLACK OTTER, LLC

BLACK
OTTER, LLC

GAIGG, ELIZABETH

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

C-44

4.7'X3' CO

SAMBS, KEVIN

GUY

SIGN

18" CPCM

SIGN

18" C

W

W

U/C

RUINS

TLE

2

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	UTILITY PLAN - STH 15	SHEET PRE_105 E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSOTHER\UTILITY COORDINATION\023001-UP.DWG
LAYOUT NAME - 023011-up

PLOT DATE : 10/31/2019 10:21 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

USH 45

USH 45

USH 45

30'USH'

32'USH'

34'USH'

36'USH'

38'USH'

40'USH'

100'EB'

100'WB'

102'EB'

102'WB'

104'EB'

104'WB'

STH 15

STH 15

SLOPE INTERCEPT (TYP)

R/W

MATCH LINE 41+25

APPROVED FOR RELEASE OF UTILITY PLAN SHEETS NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	UTILITY PLAN - USH 45	SHEET E

PRE_106

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSOTHER\UTILITY COORDINATION\023002-UP.DWG
LAYOUT NAME - 023012-UP

PLOT DATE : 10/30/2019 8:37 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

MATCH LINE 41+25

USH 45

42'USH'

44'USH'

46'USH'

48'USH'

50'USH'

USH 45

USH 45

USH 45

416'RRA'

418'RRA'

422'RRA'

424'RRA'

SLOPE INTERCEPT (TYP)

54" CPRC

SLAB

RIPRAP

RIPRAP

SIGN

SIGN

SIGN

SIGN

SIGN

FLAG

WISCONSIN CENTRAL LTD

P.I.

P.I.

P.I.

INL

INL

INL

INL

INL

INL

INL

INL

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	UTILITY PLAN - USH 45	SHEET E

PRE_107

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSOTHER\UTILITY COORDINATION\023002-UP.DWG
LAYOUT NAME - 023013-UP

PLOT DATE : 10/30/2019 8:37 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

116'WB'

GUY

TLE

R/W

118'WB'

118'EB'

SLOPE INTERCEPT (TYP)

120'WB'

120'EB'

22'RVR'

24'RVR'

24" CPCM

P.L.

T

OH

28'RVR'

TLE

30'RVR'

RIVER ROAD

RIVER RD

126'WB'

OAK

122'EB'

FO

CCV

TLE

GUY

R/W

124'WB'

124'EB'

STH 15

STH 15

126'WB'

126'EB'

24" CPCM

SLOPE INTERCEPT (TYP)

24" CPCM

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	UTILITY PLAN - RIVER ROAD	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSOTHER\UTILITY COORDINATION\023002-UP.DWG
LAYOUT NAME - 023014-UP

PLOT DATE : 10/30/2019 8:37 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:100 FT

PRE_108

WISDOT/CADDS SHEET 42

2

16'CRS'
18'CRS'
20'CRS'
22'CRS'
24'CRS'
26'CRS'
28'CRS'
30'CRS'
R/W
TLE
SLOPE INTERCEPT (TYP)
CROSS ROAD
LEDGE HILL ROAD
CROSS RD
15" CPCM
18" CPCM
24" CPCM
20'28" CPCMRA
OAK
P.L.
50'LED'
142'EB'
142'WB'
144'EB'
144'WB'
146'EB'
146'WB'
148'EB'
148'WB'
150'EB'
150'WB'
STH 15
FO
TV
G
W

APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	UTILITY PLAN - CROSS ROAD	SHEET E

PRE_109

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSOTHER\UTILITY COORDINATION\023002-UP.DWG
LAYOUT NAME - 023015-UP
PLOT DATE : 10/30/2019 8:38 AM
PLOT BY : MARTIN, THOMAS S
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

SLOPE INTERCEPT (TYP)

SLOPE INTERCEPT (TYP)

42'LED'

44'LED'

46'LED'

48'LED'

50'LED'

R/W

TLE

P.L.

15" GPCM

18" CPCM

24" CPCM

22'CRS'

24'CRS'

26'CRS'

30'CRS'

CROSS RD

CROSS ROAD

LEDGE HILL ROAD

LEDGE HILL RD

OAK

148'EB'

148'WB'

150'EB'

150'WB'

STH 15

DRAHEIM, MARVIN A & GLADYS M

APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	UTILITY PLAN - LEDGE HILL ROAD	SHEET E

PRE_110

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSOTHER\UTILITY COORDINATION\023002-UP.DWG
LAYOUT NAME - 023016-UP

PLOT DATE : 10/30/2019 8:38 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

2

2

N

SLOPE INTERCEPT (TYP)

C-44-24-59

12" CPCM

KELLY DRIVE

16' KLY

18' KLY

KELLY DR

TLE

R/W

P.L.

FOOTBRIDGE

VENT

12" CPCM

18" CPCM

18" CPCM

STH 15

STH 15

STH 15

228'EB'

228'WB'

230'EB'

230'WB'

232'EB'

232'WB'

234'WB'

236'EB'

236'WB'

OAK

OH

FO

E

TV

GUY

SLOPE INTERCEPT (TYP)

RUINS

NURSERY

WALL

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	UTILITY PLAN - KELLY DRIVE	SHEET E

PRE_111

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSOTHER\UTILITY COORDINATION\023002-UP.DWG
LAYOUT NAME - 023017-UP

PLOT DATE : 10/30/2019 8:39 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : ##########

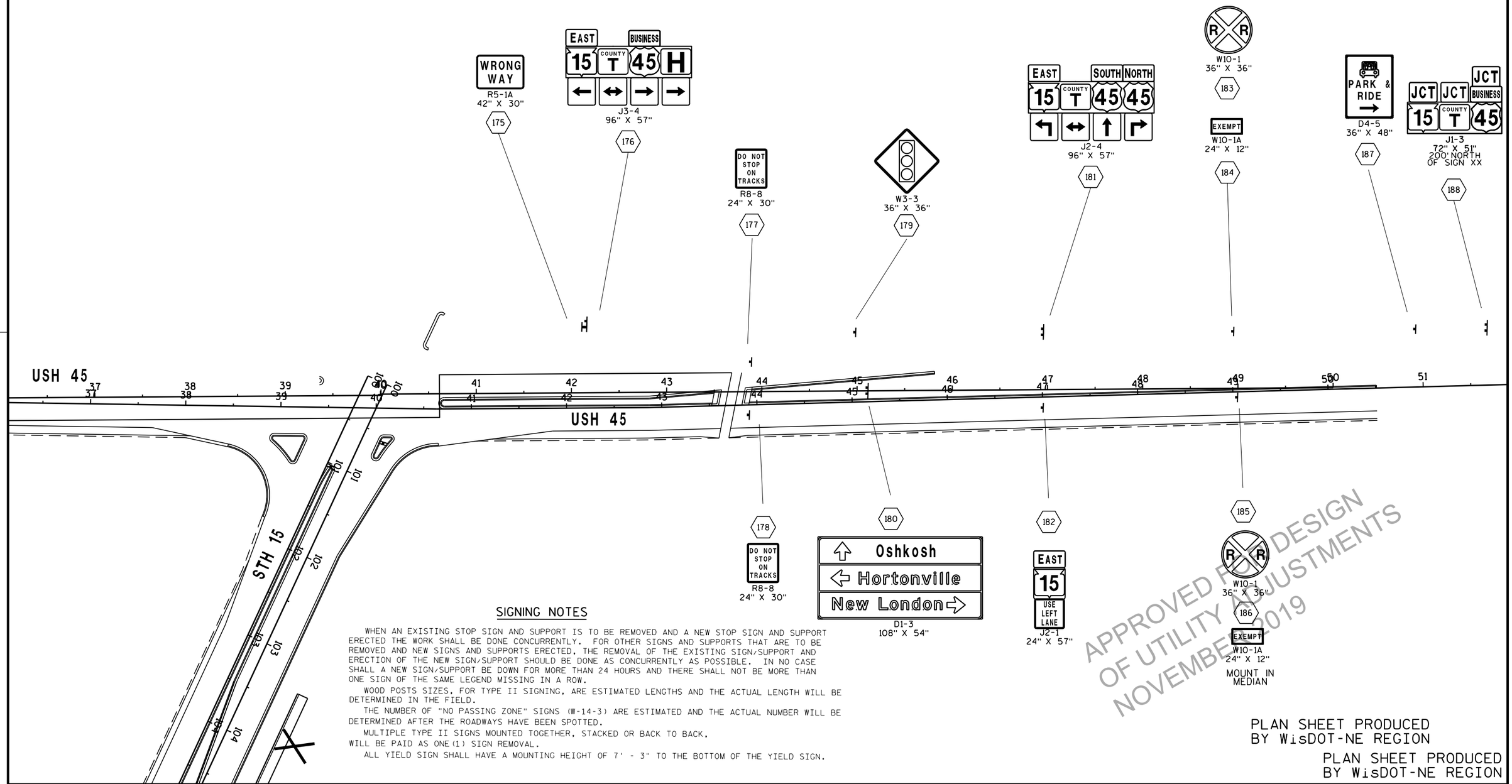
WISDOT/CADDS SHEET 42

2

LEGEND

- WOOD POST WITH SIGN
- STEEL POST AND V-LOCK WITH SIGN
- SIGN-PLACE NEW

N



SIGNING NOTES

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

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

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

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

ALL YIELD SIGN SHALL HAVE A MOUNTING HEIGHT OF 7' - 3" TO THE BOTTOM OF THE YIELD SIGN.

APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PERMANENT SIGNING	SHEET E

2

LEGEND

- WOOD POST WITH SIGN
- STEEL POST AND V-LOCK WITH SIGN
- SIGN-PLACE NEW

216 SPEED LIMIT 45 — R2-1, 36" X 48"
215 NORTH 45 — J4-1, 36" X 54"
2 LEFT LANES MUST TURN LEFT — R3-7S, 48" X 30" — 214 B
214 A — R3-8GGG, 108" X 48" (ONLY ONLY ONLY)
214 — STOP — R1-1F, 36" X 36"
213 — R4-7, 24" X 30"
209 — MOUNT TO SIGNAL — DO NOT ENTER — R5-1, 36" X 36"
208 — R4-7, 24" X 30"
206 — MOUNT TO SIGNAL — DO NOT ENTER — R5-1, 36" X 36"
WRONG WAY — R5-1A, 42" X 30" — 204
202 — 202 A — W10-1, 36" X 36"
202 B — 202 C — EXEMPT — W10-1A, 24" X 12"
PARK & RIDE — D4-5, 36" X 36" — 201
W10-1, 36" X 36" — 215 A
EXEMPT — W10-1A, 24" X 12" — 215 A
YIELD — R1-2, 36" X 31" — 212
MOUNT TO SIGNAL — STOP — R1-1F, 36" X 36" — 211
STOP — R1-1F, 36" X 36" — 210
SOUTH 45 H COUNTY T NORTH 45 — J3-4, 96" X 57" — 218
ONLY ONLY ONLY — R3-8W, 54" X 30" — 219
RIGHT LANE MUST TURN RIGHT — R3-7R, 36" X 36" — 220A
Business District / Marion Antigo — D1-3, 84" X 66" — 221
SOUTH 45 BUSINESS 45 NORTH 45 — J2-3, 72" X 57" — 223
W3-3, 48" X 48" — R4-7, 24" X 30" — 225
JCT JCT BUSINESS END 45 45 15 — J1-3, 72" X 51" — 231
SPEED LIMIT 45 — R2-1, 36" X 48" — 231 A
STOP — R1-1F, 36" X 36" — 205
MOUNT TO SIGNAL — YIELD — R1-2, 36" X 31" — 207
WRONG WAY — R5-1A, 42" X 30" — 217
EAST 15 COUNTY T — J4-2, 72" X 54" — 220
SPEED LIMIT 45 — R2-1, 36" X 48" — 222
BUSINESS EAST H 45 COUNTY T 15 — J3-4, 96" X 57" — 203
Clintonville / New London / Hortonville — D1-3, 108" X 54" — 200
Hortonville 6 / Greenville 10 / Appleton 16 — D2-2, 102" X 48" — 224
R4-7, 24" X 30" — 226
ONE WAY — R6-2L, 24" X 30" — 227
SLOWER TRAFFIC KEEP RIGHT — R4-3, 36" X 48" — 229
JCT JCT BUSINESS END 45 45 15 — J1-3, 72" X 51" — 230
SPEED LIMIT 55 — R2-1, 36" X 48" — 231 B

SIGNING NOTES

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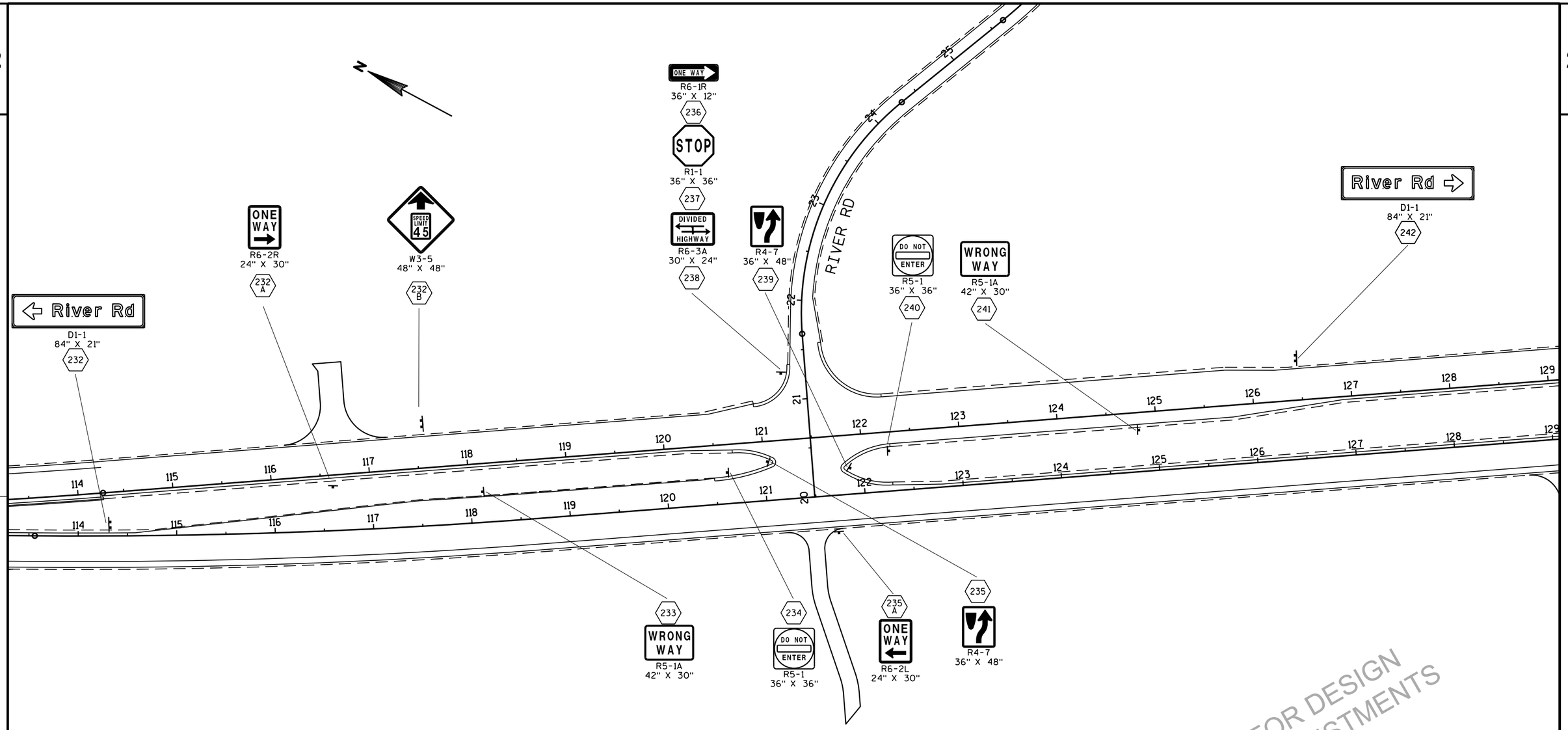
APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PERMANENT SIGNING	SHEET E

FILE NAME : N:\spo\traffic\SIGNING\Projects\1146-75-00 STH 15 Bypass\1146-75-73 West Segment\023215_ps.dgn PLOT DATE : 13-SEP-2019 15:35 PLOT BY : dotets PLOT NAME : PLOT SCALE : 100:1

2



SIGNING NOTES

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LEGEND

- WOOD POST WITH SIGN
- STEEL POST AND V-LOCK WITH SIGN
- SIGN-PLACE NEW

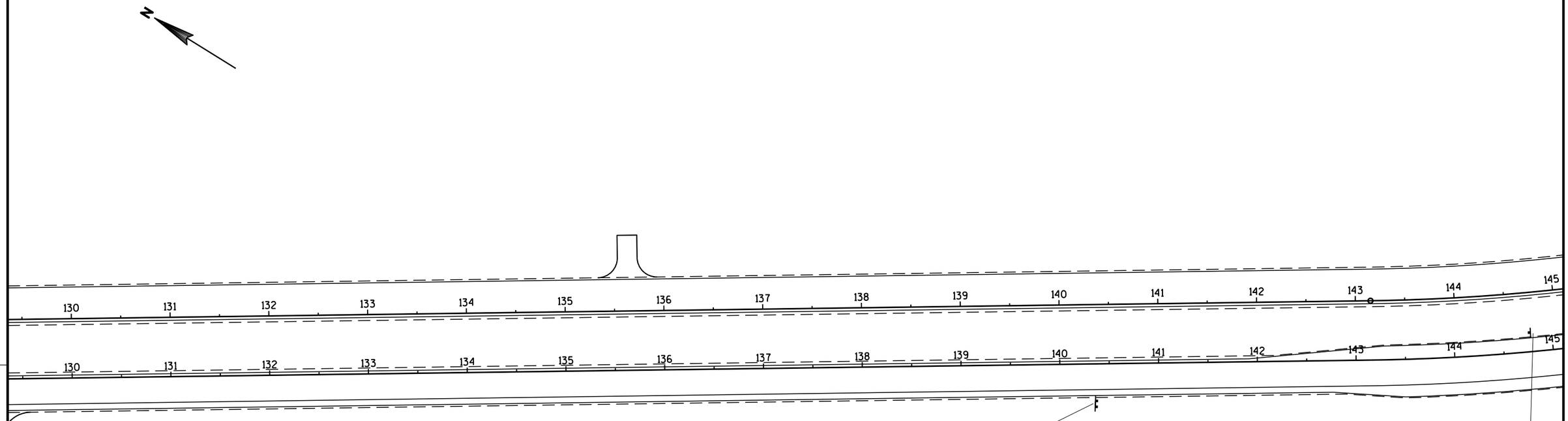
APPROVED FOR DESIGN
OF LITTLE ADJUSTMENTS
NOVEMBER 2019

PLAN SHEET PRODUCED
BY WisDOT-NE REGION

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PERMANENT SIGNING	SHEET E

FILE NAME : N:\spo\traffic\SIGNING\Projects\1146-75-00 STH 15 Bypass\1146-75-73 West Segment\023216_ps.dgn PLOT DATE : 13-SEP-2019 15:35 PLOT BY : dotets PLOT NAME : PLOT SCALE : 100:1
WISDOT/CADDS SHEET 42

2



LEGEND

- WOOD POST WITH SIGN
- STEEL POST AND V-LOCK WITH SIGN
- SIGN-PLACE NEW

SIGNING NOTES

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

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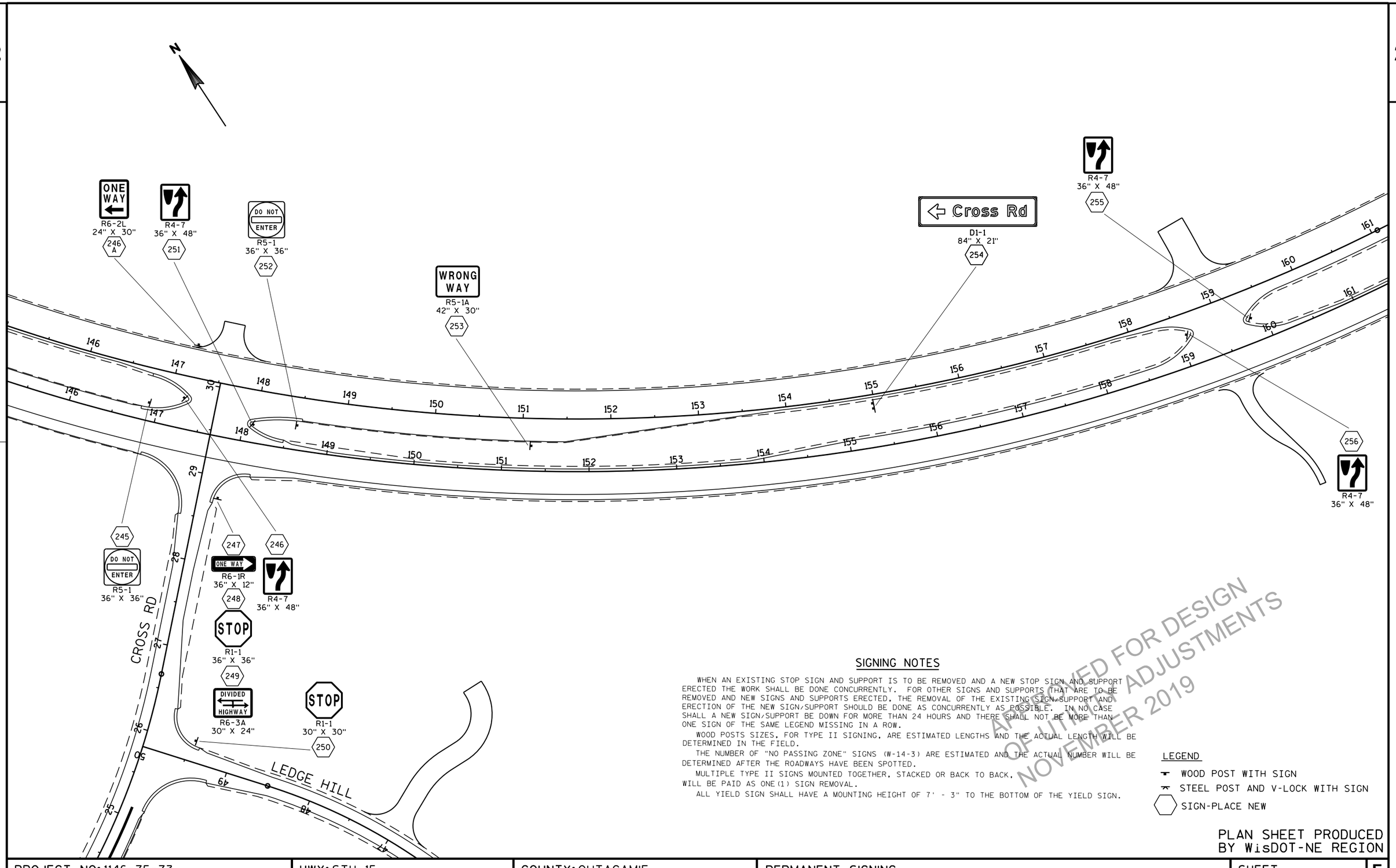
APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PLAN SHEET PRODUCED
BY WisDOT-NE REGION

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PERMANENT SIGNING	SHEET E

FILE NAME : N:\spo\traffic\SIGNING\Projects\1146-75-00 STH 15 Bypass\1146-75-73 West Segment\023217_ps.dgn PLOT DATE : 13-SEP-2019 15:35 PLOT BY : dotets PLOT NAME : PLOT SCALE : 100:1
WISDOT/CADDS SHEET 42

2



SIGNING NOTES

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APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

LEGEND

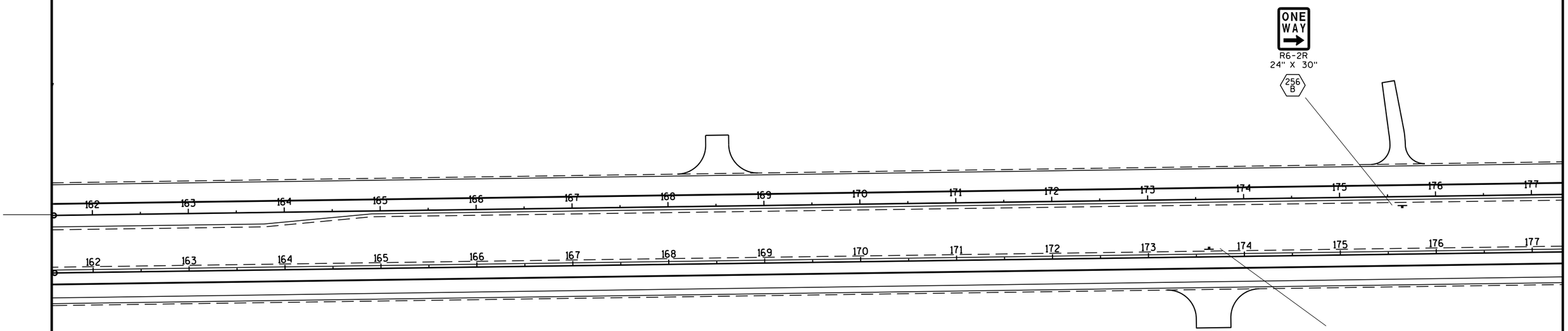
- WOOD POST WITH SIGN
- STEEL POST AND V-LOCK WITH SIGN
- SIGN-PLACE NEW

PLAN SHEET PRODUCED
BY WisDOT-NE REGION

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PERMANENT SIGNING	SHEET E

FILE NAME : N:\spo\traffic\SIGNING\Projects\1146-75-00 STH 15 Bypass\1146-75-73 West Segment\023218_ps.dgn PLOT DATE : 13-SEP-2019 15:35 PLOT BY : dotets PLOT NAME : PLOT SCALE : 100:1
WISDOT/CADDS SHEET 42

2



SIGNING NOTES

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APPROVED FOR DESIGN
OF-LITTLE ADJUSTMENTS
NOVEMBER 2019

LEGEND

- WOOD POST WITH SIGN
- STEEL POST AND V-LOCK WITH SIGN
- SIGN-PLACE NEW

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PERMANENT SIGNING	SHEET E

FILE NAME : N:\spo\traffic\SIGNING\Projects\1146-75-00 STH 15 Bypass\1146-75-73 West Segment\023218A_ps.dgn PLOT DATE : 13-SEP-2019 15:35 PLOT BY : dotets PLOT NAME : PLOT SCALE : 100:1
WISDOT/CADDS SHEET 42

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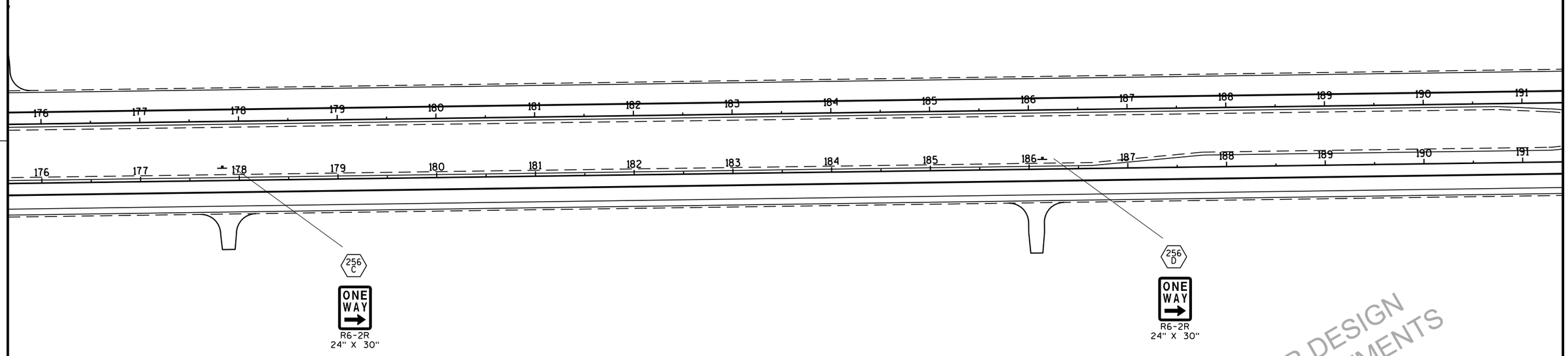


SIGNING NOTES

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

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

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

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

ALL YIELD SIGN SHALL HAVE A MOUNTING HEIGHT OF 7' - 3" TO THE BOTTOM OF THE YIELD SIGN.

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

LEGEND

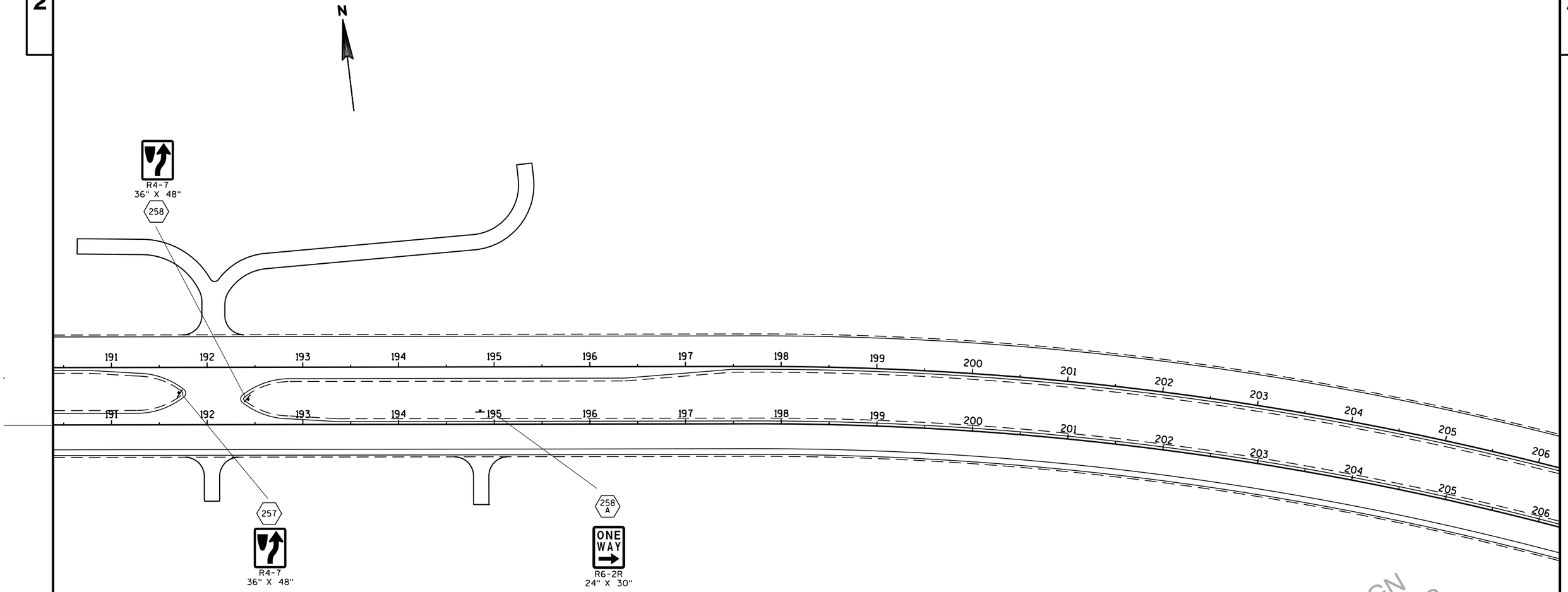
- WOOD POST WITH SIGN
- STEEL POST AND V-LOCK WITH SIGN
- SIGN-PLACE NEW

PLAN SHEET PRODUCED
BY WisDOT-NE REGION

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PERMANENT SIGNING	SHEET E

PRE_118

2



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APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

LEGEND

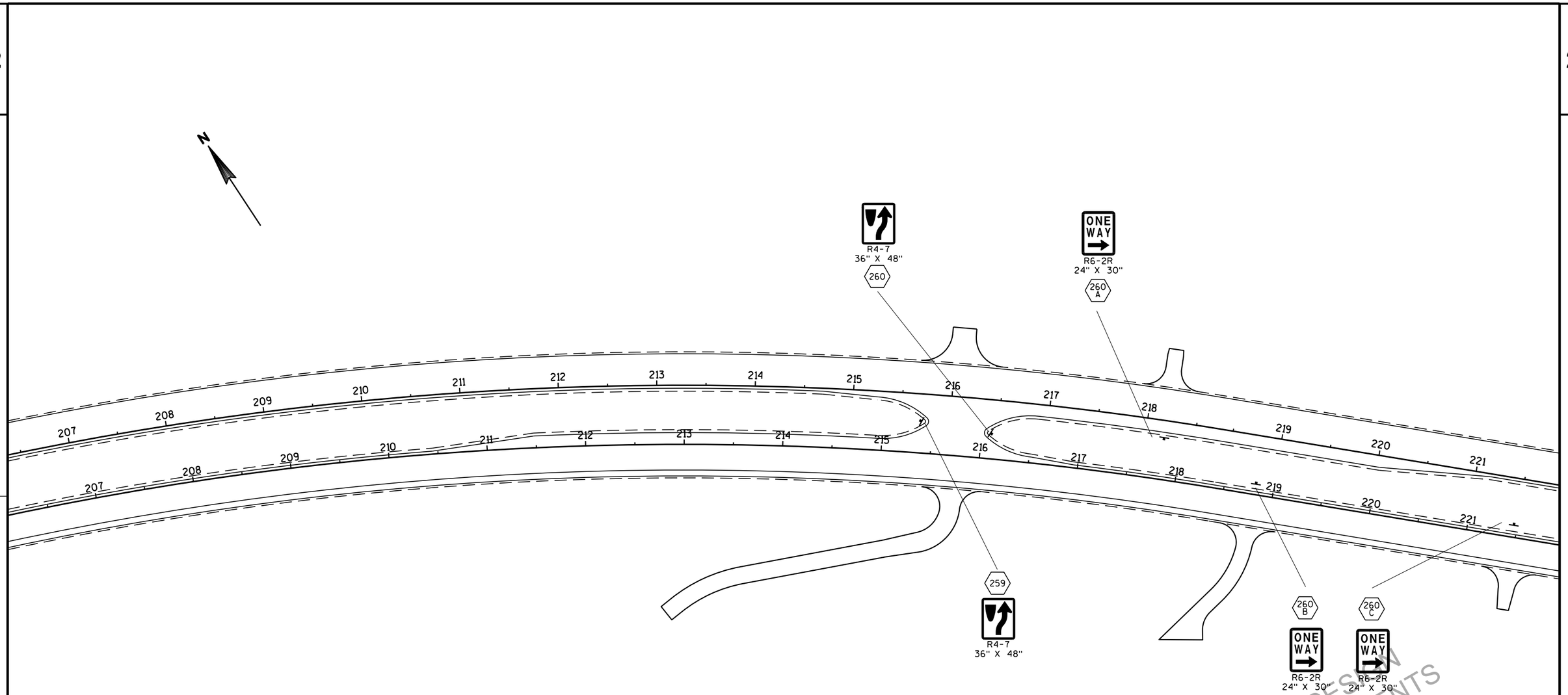
- WOOD POST WITH SIGN
- STEEL POST AND V-LOCK WITH SIGN
- SIGN-PLACE NEW

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PERMANENT SIGNING	SHEET E

FILE NAME : N:\spo\traffic\SIGNING\Projects\1146-75-00 STH 15 Bypass\1146-75-73 West Segment\023219_ps.dgn PLOT DATE : 13-SEP-2019 15:35 PLOT BY : dotets PLOT NAME : PLOT SCALE : 100:1
WISDOT/CADDS SHEET 42

2



SIGNING NOTES

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ALL YIELD SIGN SHALL HAVE A MOUNTING HEIGHT OF 7' - 3" TO THE BOTTOM OF THE YIELD SIGN.

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

LEGEND

- WOOD POST WITH SIGN
- STEEL POST AND V-LOCK WITH SIGN
- SIGN-PLACE NEW

PLAN SHEET PRODUCED
BY WisDOT-NE REGION

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PERMANENT SIGNING	SHEET E

PRE_120

2

SIGNING NOTES

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

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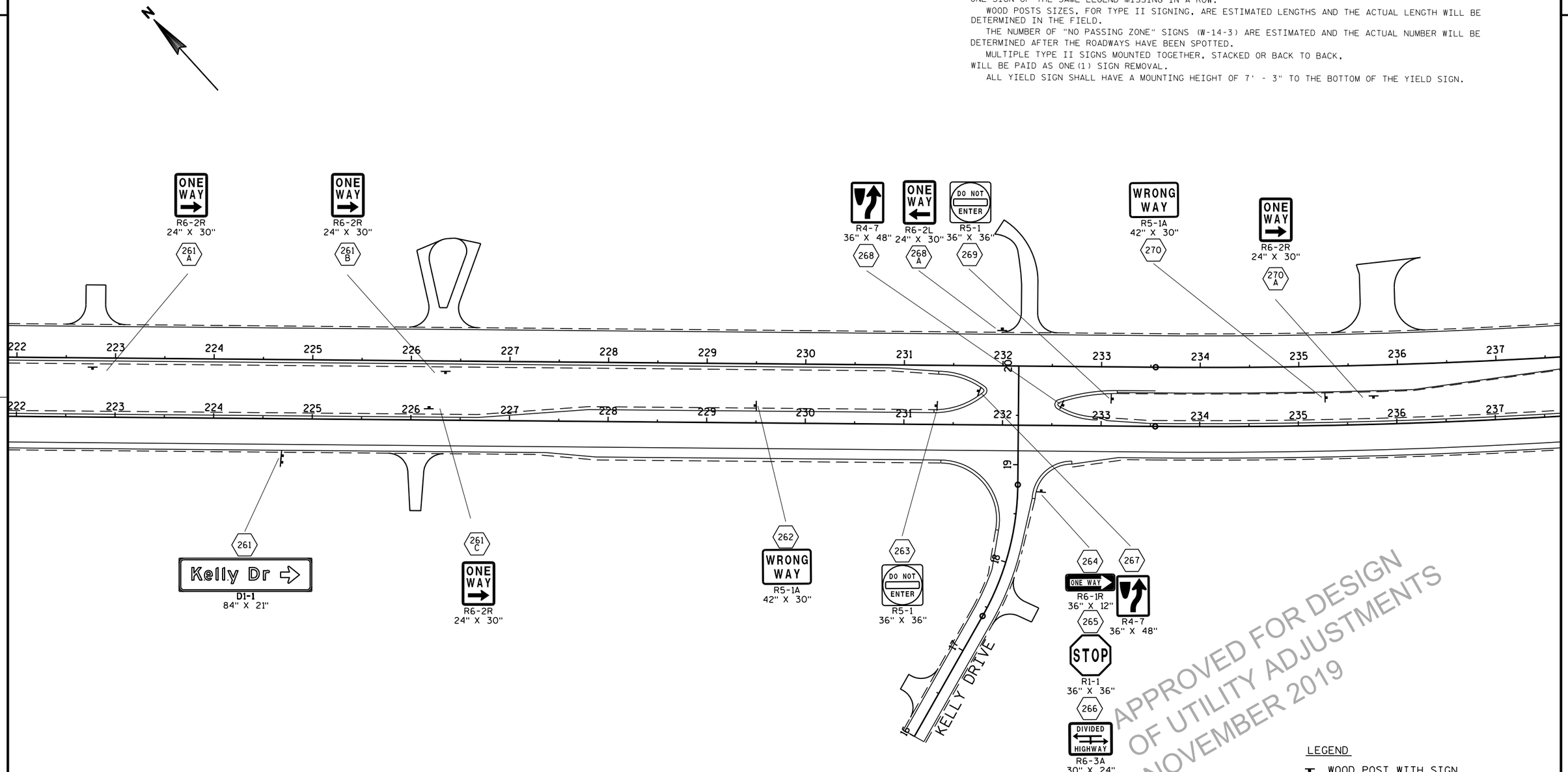

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

LEGEND

- WOOD POST WITH SIGN
- STEEL POST AND V-LOCK WITH SIGN
- SIGN-PLACE NEW

PLAN SHEET PRODUCED
BY WisDOT-NE REGION

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PERMANENT SIGNING	SHEET E

PRE_121

2

SIGNING NOTES

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

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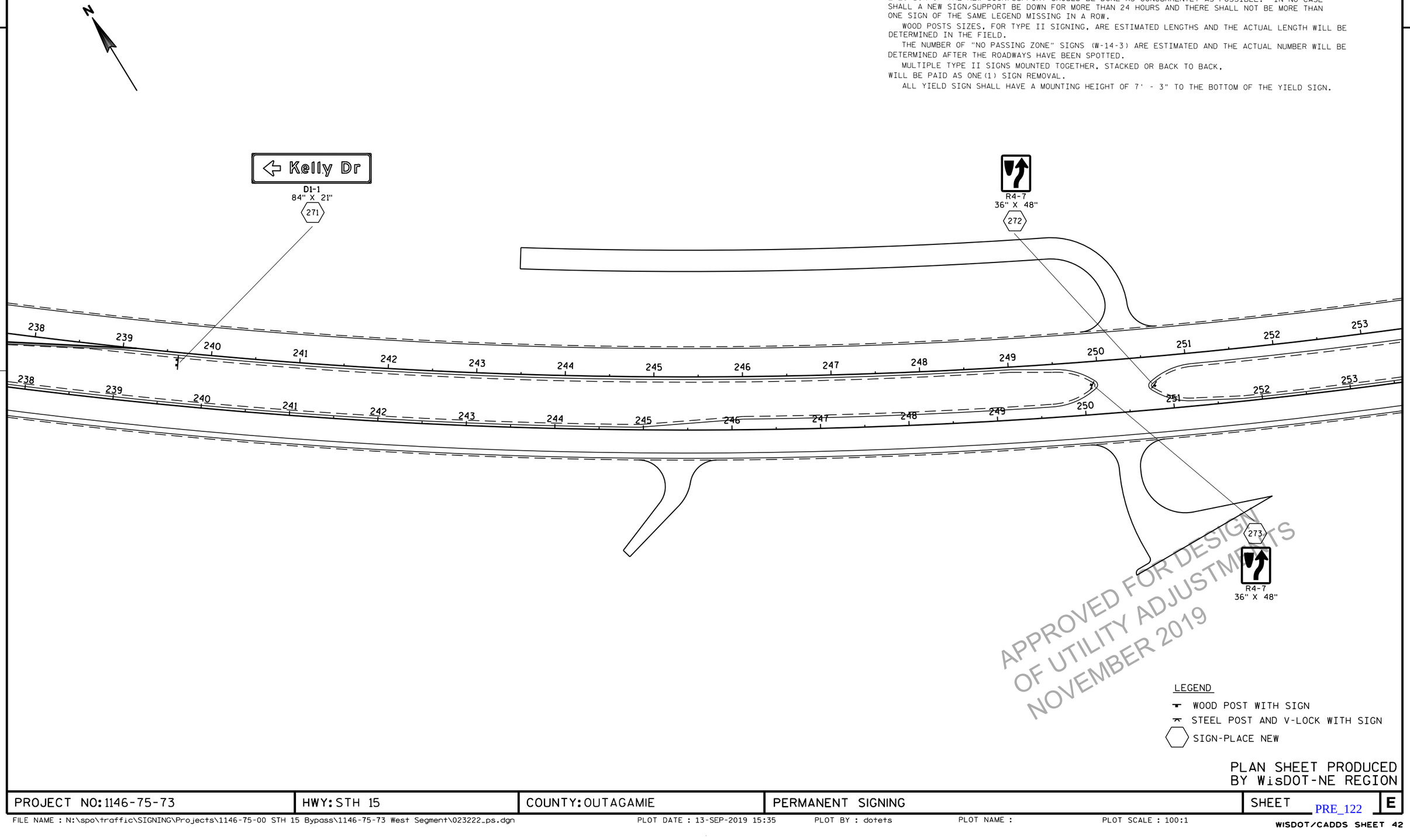


APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

LEGEND

- WOOD POST WITH SIGN
- STEEL POST AND V-LOCK WITH SIGN
- SIGN-PLACE NEW

PLAN SHEET PRODUCED
BY WisDOT-NE REGION

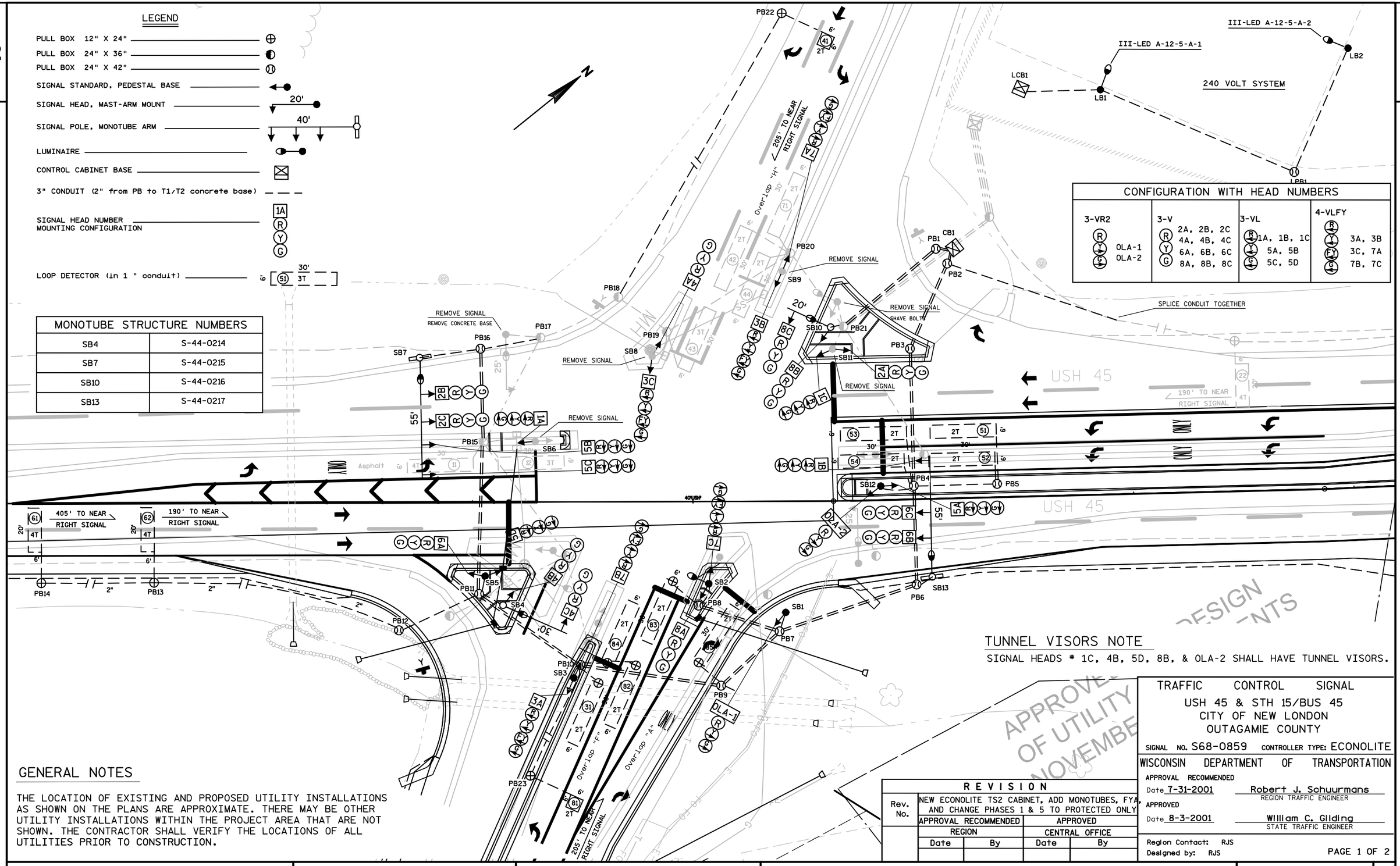
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PERMANENT SIGNING	SHEET E

FILE NAME : N:\spo\traffic\SIGNING\Projects\1146-75-00 STH 15 Bypass\1146-75-73 West Segment\023222_ps.dgn PLOT DATE : 13-SEP-2019 15:35 PLOT BY : dotets PLOT NAME : PLOT SCALE : 100:1

LEGEND

- PULL BOX 12" X 24"
- PULL BOX 24" X 36"
- PULL BOX 24" X 42"
- SIGNAL STANDARD, PEDESTAL BASE
- SIGNAL HEAD, MAST-ARM MOUNT — 20'
- SIGNAL POLE, MONOTUBE ARM — 40'
- LUMINAIRE
- CONTROL CABINET BASE
- 3" CONDUIT (2" from PB to T1/T2 concrete base)
- SIGNAL HEAD NUMBER / MOUNTING CONFIGURATION — 1A (R, Y, G)
- LOOP DETECTOR (in 1 " conduit) — 6', 30', (51) 3T

MONOTUBE STRUCTURE NUMBERS	
SB4	S-44-0214
SB7	S-44-0215
SB10	S-44-0216
SB13	S-44-0217



TUNNEL VISORS NOTE

SIGNAL HEADS # 1C, 4B, 5D, 8B, & OLA-2 SHALL HAVE TUNNEL VISORS.

GENERAL NOTES

THE LOCATION 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. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.

REVISION				
Rev. No.	NEW ECONOLITE TS2 CABINET, ADD MONOTUBES, FYA AND CHANGE PHASES 1 & 5 TO PROTECTED ONLY			
	APPROVAL RECOMMENDED		APPROVED	
	REGION		CENTRAL OFFICE	
	Date	By	Date	By

TRAFFIC CONTROL SIGNAL

USH 45 & STH 15/BUS 45
CITY OF NEW LONDON
OUTAGAMIE COUNTY

SIGNAL NO. S68-0859 CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
Date 7-31-2001 — Robert J. Schuurmans, REGION TRAFFIC ENGINEER

APPROVED
Date 8-3-2001 — William C. Gilding, STATE TRAFFIC ENGINEER

Region Contact: RJS
Designed by: RJS

PAGE 1 OF 2

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CONSTRUCTION DETAIL - TRAFFIC SIGNAL REVISION	SHEET E

PRE_123

FILE NAME : F:\D3_TRAFFI\S-859,REV1 CONST.DWG
LAYOUT NAME - ****

PLOT DATE : 7/8/2019 7:54 AM PLOT BY : TALCOTT, MATTHEW J PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

PULL BOX 12" X 24"

PULL BOX 24" X 36"

PULL BOX 24" X 42"

SIGNAL STANDARD, PEDESTAL BASE

SIGNAL HEAD, MAST-ARM MOUNT — 20'

SIGNAL POLE, MONOTUBE ARM — 40'

LUMINAIRE

CONTROL CABINET BASE

3" CONDUIT (2" from PB to T1/T2 concrete base)

SIGNAL HEAD NUMBER
MOUNTING CONFIGURATION — 1A, R, Y, G

LOOP DETECTOR (in 1 " conduit) — 6', 5i, 30', 3T

N

DIRECTIONAL BORE 6" CASING AND
INSTALL 3" CONDUIT INSIDE
CASING SHALL BE X BELOW R&R TRACKS

SPLICE CONDUIT TOGETHER

NEW LOOP AT 405'

PB26

PB25

6'

21

405' TO NEAR
RIGHT SIGNAL

4T

20'

20'

ABANDON LOOP AT 350'

45'USH

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

GENERAL NOTES

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TRAFFIC CONTROL SIGNAL
USH 45 & STH 15/BUS 45
CITY OF NEW LONDON
OUTAGAMIE COUNTY

Region Contact: RJS
Designed by: RJS

CONTROLLER TYPE: ECONOLITE

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CONSTRUCTION DETAIL - TRAFFIC SIGNAL REVISION	SHEET E

PRE_124

FILE NAME : F:\D3_TRAFFI\S-859,REV1 CONST.DWG
LAYOUT NAME - ****

PLOT DATE : 7/8/2019 7:55 AM PLOT BY : TALCOTT, MATTHEW J PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 42

DRIVEWAY CULVERT PIPES AND STRUCTURES SUMMARY

END OF PIPE LOCATIONS						* 520.1018 APRON ENDWALLS FOR CULVERT PIPE 18-INCH	* 520.1024 APRON ENDWALLS FOR CULVERT PIPE 24-INCH	520.1036 APRON ENDWALLS FOR CULVERT PIPE 36-INCH	520.3318 CULVERT PIPE CLASS III-A 18-INCH	** 520.3324 CULVERT PIPE CLASS III-A 24-INCH	520.3336 CULVERT PIPE CLASS III-A 36-INCH				
INLET LOCATION			OUTLET LOCATION												
STATION	OFFSET	LOCATION	STATION	OFFSET	LOCATION	EACH	EACH	EACH	LF	LF	LF	% SLOPE	INLET ELEVATION	OUTLET ELEVATION	REMARKS
113+27	55.0' RT	STH 15 EB	112+55	55.8' RT	STH 15 EB	2	-	-	72	-	-	2.13	778.73	777.20	
116+49	76.6' LT	STH 15 WB	116+97	81.0' LT	STH 15 WB	2	-	-	48	-	-	2.75	776.32	775.00	
128+78	60.2' RT	STH 15 EB	129+50	58.4' RT	STH 15 EB	2	-	-	72	-	-	0.76	777.99	777.44	
159+34	68.9' LT	STH 15 WB	158+59	67.7' LT	STH 15 WB	-	2	-	-	72	-	0.46	767.06	766.73	
159+93	75.0' RT	STH 15 EB	159+23	77.2' RT	STH 15 EB	-	-	2	-	-	72	1.49	769.68	768.61	
168+90	71.9' LT	STH 15 WB	168+10	72.4' LT	STH 15 WB	2	-	-	80	-	-	0.69	771.78	771.23	
175+81	65.1' LT	STH 15 WB	175+41	65.2' LT	STH 15 WB	2	-	-	40	-	-	0.78	775.67	775.36	
195+18	119.0' LT	STH 15 WB	194+95	158.8' LT	STH 15 WB	2	-	-	46	-	-	1.70	775.12	774.34	
218+83	60.0' RT	STH 15 EB	217+92	58.3' RT	STH 15 EB	2	-	-	90	-	-	0.70	823.24	822.61	
245+89	66.7' RT	STH 15 EB	244+90	70.3' RT	STH 15 EB	2	-	-	100	-	-	0.74	802.51	801.77	
22+81	43.4' RT	CROSS ROAD	23+11	46.9' RT	CROSS ROAD	2	-	-	32	-	-	1.38	782.44	782.00	
46+75	47.5' RT	LEDGE HILL ROAD	47+32	49.6' RT	LEDGE HILL ROAD	2	-	-	62	-	-	2.16	782.10	780.76	
					TOTAL	20	2	2	642	72	72				
									TOTAL FROM CROSS PIPES SUMMARY	88					
									PROJECT TOTAL	160					

* ITEM FOUND IN ENDWALLS FOR CROSS PIPES SUMMARY. PROJECT TOTAL SHOWN UNDER ENDWALLS FOR CROSS PIPES AND MARKERS SUMMARY.

** ITEM FOUND CROSS PIPES SUMMARY.

DRIVEWAY CULVERT PIPES AND STRUCTURES SUMMARY (CONTINUED)

END OF PIPE LOCATIONS						521.1518 APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 18-INCH 6 TO 1	521.1524 APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 24-INCH 6 TO 1	
INLET LOCATION			OUTLET LOCATION					
STATION	OFFSET	LOCATION	STATION	OFFSET	LOCATION	EACH	EACH	REMARKS
109+44	56.5' LT	STH 15 WB	108+92	56.7' LT	STH 15 WB	2	-	
109+44	60.5' LT	STH 15 WB	108+92	60.7' LT	STH 15 WB	2	-	
173+97	58.8' RT	STH 15 EB	173+33	58.4' RT	STH 15 EB	-	2	
					TOTAL	4	2	

ALL ITEMS ARE CATEGORY 0010
UNLESS NOTED OTHERWISE

DRIVEWAY CULVERT PIPES AND STRUCTURES SUMMARY (CONTINUED)

	END OF PIPE LOCATIONS													
	INLET LOCATION			OUTLET LOCATION			522.0412 CPRC CLASS IV 12-INCH	522.0418 CPRC CLASS IV 18-INCH	522.0424 CPRC CLASS IV 24-INCH	* 522.1012 APRON ENDWALLS FOR CPRC 12-INCH	* 522.1018 APRON ENDWALLS FOR CPRC 18-INCH	* 522.1024 APRON ENDWALLS FOR CPRC 24-INCH				
STATION	OFFSET	LOCATION	STATION	OFFSET	LOCATION	LF	LF	LF	EACH	EACH	EACH	% SLOPE	INLET ELEVATION	OUTLET ELEVATION	REMARKS
109+44	56.5' LT	STH 15 WB	108+92	56.7' LT	STH 15 WB	-	52	-	-	-	-	0.63	773.20	772.87	6 TO 1 SLOPED ENDWALLS
109+44	60.5' LT	STH 15 WB	108+92	60.7' LT	STH 15 WB	-	52	-	-	-	-	0.63	773.20	772.87	6 TO 1 SLOPED ENDWALLS
135+47	65.0' LT	STH 15 WB	135+83	67.0' LT	STH 15 WB	-	36	-	-	2	-	3.78	768.49	767.13	
147+73	62.2' LT	STH 15 WB	147+36	62.2' LT	STH 15 WB	-	36	-	-	2	-	0.83	763.49	763.19	
173+97	58.8' RT	STH 15 EB	173+33	58.4' RT	STH 15 EB	-	-	64	-	-	-	0.75	777.48	777.00	6 TO 1 SLOPED ENDWALLS
178+06	57.9' RT	STH 15 EB	177+70	57.9' RT	STH 15 EB	-	36	-	-	2	-	0.61	778.92	778.70	
186+23	63.8' RT	STH 15 EB	185+85	64.2' RT	STH 15 EB	-	-	38	-	-	2	2.63	782.00	781.00	
192+29	57.8' RT	STH 15 EB	191+79	57.4' RT	STH 15 EB	-	50	-	-	2	-	0.38	784.62	784.43	
215+89	58.2' RT	STH 15 EB	215+44	58.0' RT	STH 15 EB	-	44	-	-	2	-	1.39	821.64	821.03	
216+35	59.3' LT	STH 15 WB	215+78	59.1' LT	STH 15 WB	-	58	-	-	2	-	1.14	824.94	824.28	
222+68	59.1' LT	STH 15 WB	222+92	59.1' LT	STH 15 WB	-	24	-	-	2	-	0.88	823.70	823.49	
226+06	65.1' LT	STH 15 WB	226+64	66.1' LT	STH 15 WB	-	58	-	-	2	-	1.90	818.89	817.79	
235+46	57.6' LT	STH 15 WB	236+05	58.2' LT	STH 15 WB	-	58	-	-	2	-	1.91	809.56	808.45	
250+74	56.3' RT	STH 15 EB	250+02	57.9' RT	STH 15 EB	-	72	-	-	2	-	1.10	806.31	805.52	
28+50	24.0' LT	RIVER ROAD	28+24	23.8' LT	RIVER ROAD	26	-	-	2	-	-	0.69	772.17	771.99	
19+82	44.3' LT	CROSS ROAD	20+21	44.4' LT	RIVER ROAD	-	38	-	-	2	-	0.58	782.65	782.43	
42+81	38.4' RT	LEDGE HILL ROAD	43+18	43.1' RT	LEDGE HILL ROAD	38	-	-	2	-	-	5.61	790.92	788.79	
46+93	168.7' RT	LEDGE HILL ROAD	46+79	206.9' RT	LEDGE HILL ROAD	-	42	-	-	2	-	0.29	780.00	779.88	
16+31	26.6' LT	KELLY DRIVE	16+55	26.6' LT	KELLY DRIVE	24	-	-	2	-	-	10.79	835.43	832.84	
17+52	27.5' RT	KELLY DRIVE	17+75	26.7' RT	KELLY DRIVE	26	-	-	2	-	-	12.73	827.28	823.97	
					TOTAL	114	656	102	8	24	2				

* ITEM FOUND IN STORM SEWER PIPE ENDWALLS AND MARKERS SUMMARY. PROJECT TOTAL SHOWN UNDER STORM SEWER PIPE ENDWALLS AND MARKERS SUMMARY.

DRIVEWAY CULVERT PIPES AND STRUCTURES SUMMARY (CONTINUED)

	END OF PIPE LOCATIONS					522.2338 CPRCHE CLASS HE-III 38X60-INCH	522.2638 APRON ENDWALLS FOR CPRCHE 38X60-INCH				
	INLET LOCATION		OUTLET LOCATION								
STATION	OFFSET	LOCATION	STATION	OFFSET	LOCATION	LF	EACH	% SLOPE	INLET ELEVATION	OUTLET ELEVATION	REMARKS
225+89	65.7' RT	STH 15 EB	226+31	66.4' RT	STH 15 EB	42	2	4.29	819.69	817.89	
		TOTAL				42	2				

ALL ITEMS ARE CATEGORY 0010
UNLESS NOTED OTHERWISE

ENDWALLS FOR CROSS PIPES AND MARKERS SUMMARY

END OF CULVERT PIPE LOCATIONS						* 520.1024 APRON ENDWALLS FOR CULVERT PIPE 24-INCH	520.1030 APRON ENDWALLS FOR CULVERT PIPE 30-INCH	522.1030 APRON ENDWALLS FOR CPRC 30-INCH	522.1036 APRON ENDWALLS FOR CPRC 36-INCH	522.1042 APRON ENDWALLS FOR CPRC 42-INCH	633.5200 MARKERS CULVERT END	
INLET LOCATION			OUTLET LOCATION									
STATION	OFFSET	LOCATION	STATION	OFFSET	LOCATION	EACH	EACH	EACH	EACH	EACH	EACH	REMARKS
118+35	72.7' RT	STH 15 EB	118+36	87.4' LT	STH 15 WB	-	-	2	-	-	2	
STRUCTURE C-44-121 - SEE STRUCTURE PLANS FOR LOCATION						-	-	-	-	-	2	
182+76	60.0' RT	STH 15 EB	182+47	61.7' LT	STH 15 WB	-	-	-	-	2	2	
196+89	65.8' RT	STH 15 EB	196+22	79.6' LT	STH 15 WB	-	-	-	2	-	2	
STRUCTURE C-44-122 - SEE STRUCTURE PLANS FOR LOCATION						-	-	-	-	-	2	
STRUCTURE C-44-123 - SEE STRUCTURE PLANS FOR LOCATION						-	-	-	-	-	2	
25+52	36.5' RT	RIVER ROAD	25+75	27.7' LT	RIVER ROAD	-	2	-	-	-	2	
28+79	36.8' RT	CROSS ROAD	28+79	51.2' LT	CROSS ROAD	2	-	-	-	-	2	
					TOTAL	2	2	2	2	2	16	
					TOTAL FROM DRIVEWAY CULVERT PIPES AND STRUCTURES SUMMARY	2					+	
					PROJECT TOTAL	4						

* ITEM FOUND IN DRIVEWAY CULVERT PIPES AND STRUCTURES SUMMARY.

\+ SEE BELOW TABLE FOR ENDWALLS FOR CROSS PIPES AND MARKERS SUMMARY TOTAL. SEE STORM SEWER PIPE ENDWALLS AND MARKERS SUMMARY FOR PROJECT TOTAL.

ENDWALLS FOR CROSS PIPES AND MARKERS SUMMARY (CONTINUED)

END OF CULVERT PIPE LOCATIONS						* 522.2629 APRON ENDWALLS FOR CPRCHE 29X45-INCH	522.2643 APRON ENDWALLS FOR CPRCHE 43X68-INCH	522.2648 APRON ENDWALLS FOR CPRCHE 48X76-INCH	524.0636 APRON ENDWALLS FOR CULVERT PIPE SALVAGED 36-INCH	* 633.5200 MARKERS CULVERT END	
INLET LOCATION			END OF CULVERT PIPE LOCATIONS								
STATION	OFFSET	LOCATION	STATION	OFFSET	LOCATION	EACH	EACH	EACH		EACH	REMARKS
--	--	--	101+43	41.4' RT	STH 15 EB	-	-	-	1	1	CULVERT PIPE EXTENSION
--	--	--	101+54	39.2' RT	STH 15 EB	-	-	-	1	-	CULVERT PIPE EXTENSION
--	--	--	100+86	93.3' LT	STH 15 WB	-	-	-	1	-	REMOVING PORTION OF END OF CULVERT PIPE
			100+97	90.7' LT	STH 15 WB	-	-	-	1	1	REMOVING PORTION OF END OF CULVERT PIPE
158+99	61.7' RT	STH 15 EB	158+40	59.8' LT	STH 15 WB	-	-	2	-	2	INVERTS TO BE BURIED 6-INCHES BELOW STREAMBED
--	--	--	38+19	63.2' RT	USH 45 NB	-	-	-	1	2	CULVERT PIPE EXTENSION / PLACE MARKERS CULVERT END ON INLET AND OUTLET ENDS
--	--	--	43+18	65.1' RT	USH 45 NB	1	-	-	-	2	CULVERT PIPE EXTENSION / PLACE MARKERS CULVERT END ON INLET AND OUTLET ENDS
--	--	--	43+25	67.0' RT	USH 45 NB	1	-	-	-	-	CULVERT PIPE EXTENSION
25+03	49.4' RT	CROSS ROAD	25+03	26.6' LT	CROSS ROAD	-	2	-	-	2	
		TOTAL				2	2	2	5	10	
									TOTAL FROM ABOVE TABLE	16	
									ENDWALLS FOR CROSS PIPES AND MARKERS SUMMARY TOTAL	26	

* SEE STORM SEWER PIPE ENDWALLS AND MARKERS SUMMARY FOR PROJECT TOTAL.

ALL ITEMS ARE CATEGORY 0010
UNLESS NOTED OTHERWISE

CROSS PIPES SUMMARY

END OF CULVERT PIPE LOCATIONS						* 520.3324 CULVERT PIPE CLASS III-A 24-INCH	520.3330 CULVERT PIPE CLASS III-A 30-INCH	** 520.8000 CONCRETE COLLARS FOR PIPE	*** 650.6000 CONSTRUCTION STAKING PIPE CULVERTS		INLET	OUTLET	
INLET LOCATION			OUTLET LOCATION										
STATION	OFFSET	LOCATION	STATION	OFFSET	LOCATION	LF	LF	EACH	EACH	% SLOPE	ELEVATION	ELEVATION	REMARKS
101+52	63.9' RT	STH 15 EB	--	--	--	-	-	1	--	--	--	--	CULVERT PIPE EXTENSION
101+61	59.8' RT	STH 15 EB	--	--	--	-	-	1	--	--	--	--	CULVERT PIPE EXTENSION
38+18	45.2' RT	USH 45 NB	--	--	--	-	-	1	--	--	--	--	CULVERT PIPE EXTENSION
43+19	59.2' RT	USH 45 NB	--	--	--	-	-	1	--	--	--	--	CULVERT PIPE EXTENSION
43+27	61.1' RT	USH 45 NB	--	--	--	-	-	1	--	--	--	--	CULVERT PIPE EXTENSION
25+52	36.5' RT	RIVER ROAD	25+75	27.7' LT	RIVER ROAD	-	68	-	1	0.63	770.00	769.57	
28+79	36.8' RT	CROSS ROAD	28+79	51.2' RT	CROSS ROAD	88	-	-	1	0.77	768.40	767.72	
		TOTAL				88	68	5	2	SUB-TOTAL			

* ITEM FOUND IN DRIVEWAY CULVERT PIPES AND STRUCTURES SUMMARY. PROJECT TOTAL SHOWN UNDER DRIVEWAY CULVERT PIPES AND STRUCTURES SUMMARY.

** ITEM FOUND IN STORM SEWER PIPES SUMMARY. PROJECT TOTAL SHOWN UNDER STORM SEWER PIPES SUMMARY.

*** PROJECT TOTAL SHOWN IN FINAL TABLE OF CROSS PIPES SUMMARY.

CROSS PIPES SUMMARY (CONTINUED)

END OF CULVERT PIPE LOCATIONS						522.0130 CPRC CLASS III 30-INCH	522.0136 CPRC CLASS III 36-INCH	522.0142 CPRC CLASS III 42-INCH	522.0436 CPRC CLASS IV 36-INCH	* 650.6000 CONSTRUCTION STAKING PIPE CULVERTS		INLET	OUTLET	
INLET LOCATION			OUTLET LOCATION											
STATION	OFFSET	LOCATION	STATION	OFFSET	LOCATION	LF	LF	LF	LF	EACH	% SLOPE	ELEVATION	ELEVATION	REMARKS
101+52	63.9' RT	STH 15 EB	101+43	41.4' RT	STH 15 EB	-	-	-	24	1	0.54	769.80	769.67	CULVERT PIPE EXTENSION
101+61	59.8' RT	STH 15 EB	101+54	39.2' RT	STH 15 EB	-	-	-	22	1	1.32	769.80	769.51	CULVERT PIPE EXTENSION
118+35	72.7' RT	STH 15 EB	118+36	87.4' LT	STH 15 WB	220	-	-	-	1	2.49	776.48	771.00	
182+76	60.0' RT	STH 15 EB	182+47	61.7' LT	STH 15 WB	-	-	184	-	1	1.09	777.50	775.50	
196+89	65.8' RT	STH 15 EB	196+22	79.6' LT	STH 15 WB	-	216	-	-	1	1.94	782.20	778.00	
38+18	45.2' RT	USH 45 NB	38+19	63.2' RT	USH 45 NB	-	-	-	18	1	0.33	770.38	770.32	CULVERT PIPE EXTENSION
		TOTAL				220	216	184	64	6	SUB-TOTAL			

* PROJECT TOTAL SHOWN IN FINAL TABLE OF CROSS PIPES SUMMARY.

ALL ITEMS ARE CATEGORY 0010
UNLESS NOTED OTHERWISE

CROSS PIPES SUMMARY (CONTINUED)

END OF CULVERT PIPE LOCATIONS						522.2329 CPRCHE CLASS HE-III 29X45-INCH	522.2348 CPRCHE CLASS HE-III 48X76-INCH	SPV.0090.01 CPRCHE CLASS HE-IV 43X68-INCH	650.6000 CONSTRUCTION STAKING PIPE CULVERTS		INLET	OUTLET	
INLET LOCATION			OUTLET LOCATION										
STATION	OFFSET	LOCATION	STATION	OFFSET	LOCATION	LF	LF	LF	EACH	% SLOPE	ELEVATION	ELEVATION	REMARKS
158+99	61.7' RT	STH 15 EB	158+40	59.8' LT	STH 15 WB	-	182	-	1	1.54	767.80	765.00	INVERTS TO BE BURIED 6-INCHES BELOW STREAMBED
43+19	59.2' RT	USH 45 NB	43+18	65.1' RT	USH 45 NB	6	-	-	1	1.67	763.06	762.96	CULVERT PIPE EXTENSION
43+27	61.1' RT	USH 45 NB	43+25	67.0' RT	USH 45 NB	6	-	-	1	1.33	763.07	762.99	CULVERT PIPE EXTENSION
25+03	49.4' RT	CROSS ROAD	25+03	26.6' LT	CROSS ROAD	-	-	76	1	0.82	776.00	775.38	
		TOTAL				12	182	76	4	SUB-TOTAL			
									12	**PROJECT TOTAL**			

ALL ITEMS ARE CATEGORY 0010
UNLESS NOTED OTHERWISE

STORM SEWER PIPE ENDWALLS AND MARKERS SUMMARY

STATION	OFFSET	LOCATION	* 522.1012 APRON ENDWALLS FOR CPRC 12-INCH EACH	* 522.1018 APRON ENDWALLS FOR CPRC 18-INCH EACH	* 522.1024 APRON ENDWALLS FOR CPRC 24-INCH EACH	** 522.2629 APRON ENDWALLS FOR CPRCHE 29X45-INCH EACH	** 633.5200 MARKERS CULVERT END EACH	*** 650.4000 CONSTRUCTION STAKING STORM SEWER EACH	REMARKS
100+67	101.8' LT	STH 15 WB	1	-	-	-	1	1	
101+53	86.9' RT	STH 15 EB	-	1	-	-	1	1	
101+18	103.0' LT	STH 15 WB	-	-	-	1	1	1	
105+92	47.6' LT	STH 15 WB	-	-	1	-	1	1	
110+01	48.7' LT	STH 15 WB	-	1	-	-	1	1	
113+02	52.7' LT	STH 15 WB	-	1	-	-	1	1	
120+69	62.4' LT	STH 15 WB	-	1	-	-	1	1	
122+02	62.5' LT	STH 15 WB	-	1	-	-	1	1	
128+00	57.0' LT	STH 15 WB	-	1	-	-	1	1	
136+00	55.2' LT	STH 15 WB	-	1	-	-	1	1	
142+20	54.0' LT	STH 15 WB	-	1	-	-	1	1	
148+91	50.9' LT	STH 15 WB	-	1	-	-	1	1	
152+96	50.7' LT	STH 15 WB	-	1	-	-	1	1	
160+27	61.2' LT	STH 15 WB	-	1	-	-	1	1	
168+00	57.5' LT	STH 15 WB	-	1	-	-	1	1	
177+00	55.8' LT	STH 15 WB	-	1	-	-	1	1	
185+50	57.5' LT	STH 15 WB	-	1	-	-	1	1	
192+85	57.2' LT	STH 15 WB	-	1	-	-	1	1	
201+50	61.7' LT	STH 15 WB	-	1	-	-	1	1	
210+00	64.2' LT	STH 15 WB	-	1	-	-	1	1	
216+66	47.1' RT	STH 15 EB	-	1	-	-	1	1	
227+00	58.9' LT	STH 15 WB	-	1	-	-	1	1	
231+35	57.0' LT	STH 15 WB	-	1	-	-	1	1	
237+50	48.2' LT	STH 15 WB	-	1	-	-	1	1	
244+90	56.6' LT	STH 15 WB	-	1	-	-	1	1	
246+37	51.0' LT	STH 15 WB	-	1	-	-	1	1	
251+43	52.5' LT	STH 15 WB	-	1	-	-	1	1	
TOTAL			1	24	1	1	27	27	SUB-TOTAL
TOTAL FROM DRIVEWAY CULVERT PIPES AND STRUCTURES SUMMARY			8	24	2	2	26	**TOTAL FROM ENDWALLS FOR CROSS PIPES AND MARKERS SUMMARY**	
PROJECT TOTAL			**9**	**48**	**3**	**3**	**53**		

* ITEM FOUND IN DRIVEWAY CULVERT PIPES AND STRUCTURES SUMMARY.

** ITEM FOUND IN ENDWALLS FOR CROSS PIPES AND MARKERS SUMMARY.

*** PROJECT TOTAL FOUND IN STORM SEWER STRUCTURES, COVERS, AND GRATES SUMMARY

ALL ITEMS ARE CATEGORY 0010
UNLESS NOTED OTHERWISE

STORM SEWER PIPES SUMMARY

FROM STRUCTURE	TO STRUCTURE	INLET ELEVATION	DISCHARGE ELEVATION	% SLOPE	* 520.8000 CONCRETE COLLARS FOR PIPE EACH	608.0412 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 12-INCH LF	608.0418 18-INCH LF	608.0424 24-INCH LF	608.0436 36-INCH LF	REMARKS
43	EXISTING CULVERT	767.00	765.66	9.35	1	14	-	-	-	EXISTING CULVERT IS 45"X29" CPRCHE
43.1	43	767.14	767.00	1.05	-	13	-	-	-	
43.2	43	768.20	768.05	0.50	-	30	-	-	-	
EXISTING 12" PIPE	48	760.21	760.04	2.03	1	8	-	-	-	
48	EXISTING 18' PIPE	760.04	759.49	6.90	1	8	-	-	-	
100.1	100	769.89	769.50	0.50	-	77	-	-	-	
101.1	101	771.87	771.00	1.41	-	-	62	-	-	
101.2	101.1	772.00	771.87	0.48	-	-	27	-	-	
EXISTING INLET	101.2	773.53	772.50	1.93	-	53	-	-	-	
104	103	769.48	769.22	0.20	-	-	-	-	131	
104.1	104	771.59	771.48	0.96	-	11	-	-	-	
105	104	769.56	769.48	0.20	-	-	-	-	41	
105.1	105	770.67	770.56	0.96	-	11	-	-	-	
106	105	769.70	769.56	0.50	-	-	-	28	-	
106.1	106	770.37	769.96	1.00	-	41	-	-	-	
106.2	106	770.22	769.96	1.00		26	-	-	-	
107	106	769.76	769.70	0.55	-	-	-	11	-	
107.1	107	771.02	770.76	1.00	-	26	-	-	-	
107.2	107	770.39	770.26	0.50	-	26	-	-	-	
107.3	107.2	771.02	770.89	0.50	-	26	-	-	-	
108	105	771.36	769.56	0.90	-	-	-	199	-	
110.1	110	773.70	773.43	0.50	-	-	54	-	-	
110.2	110.1	773.85	773.70	0.95	-	-	16	-	-	
113.1	113	775.88	775.00	1.00	-	-	88	-	-	
120.1	120	779.41	779.00	0.50	-	-	83	-	-	
120.2	120.1	780.21	779.91	1.00	-	30	-	-	-	
122.1	122	781.31	780.86	0.50	-	-	90	-	-	
128.1	128	777.43	777.00	0.50	-	-	87	-	-	
136.1	136	767.44	767.00	0.52	-	-	84	-	-	
142.1	142	762.50	763.30	1.00	-	-	80	-	-	
149.1	149	764.40	763.96	0.50	-	-	88	-	-	
153.1	153	766.39	765.98	0.50	-	-	82	-	-	
161.1	161	767.94	767.43	0.50	-	-	102	-	-	
168.1	168	773.44	773.00	0.51	-	-	87	-	-	
177.1	177	777.43	777.00	0.51	-	-	85	-	-	
185.1	185	780.44	780.00	0.51	-	-	87	-	-	
193.1	193	783.67	783.00	0.75	-	-	89	-	-	
201.1	201	791.94	791.50	0.50	-	-	88	-	-	
210.1	210	811.97	811.50	0.50	-	-	93	-	-	
216.1	216	822.32	821.94	0.50	-	-	75	-	-	
227.1	227	817.70	817.27	0.50	-	-	87	-	-	
231.1	231	813.42	813.00	0.50	-	-	84	-	-	
237.1	237	807.19	806.77	0.50	-	-	84	-	-	
245.1	245	801.34	800.89	0.50	-	-	90	-	-	
246.1	246	802.36	801.75	0.75	-	-	82	-	-	
252.1	252	803.57	803.13	0.50	-	-	88	-	-	
				TOTAL	3	400	2062	238	172	
				TOTAL FROM CROSS PIPES SUMMARY	5					
				PROJECT TOTAL	8					

ALL ITEMS ARE CATEGORY 0010
UNLESS NOTED OTHERWISE

* ITEM FOUND IN CROSS PIPES SUMMARY.

STORM SEWER PIPES SUMMARY (CONTINUED)

FROM STRUCTURE	TO STRUCTURE	INLET ELEVATION	DISCHARGE ELEVATION	% SLOPE	608.2429 STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 29X45-INCH LF	SPV.0060.02 CONNECT STORM SEWER PIPE TO EXISTING INLET EACH	SPV.0060.03 CONNECT STORM SEWER PIPE TO EXISTING CULVERT EACH	REMARKS
43	EXISTING CULVERT	767.00	765.66	9.35	-	-	1	EXISTING CULVERT IS 45"X29" CPRCHE
EXISTING INLET	101.2	773.53	772.50	1.91	-	1	-	
103	102	769.22	768.92	0.22	136	-	-	
		TOTAL			136	1	1	

CONCRETE SIDEWALK SUMMARY

STATION	TO	STATION	LOCATION	602.0405 CONCRETE SIDEWALK 4-INCH SF	REMARKS
100+86	--	101+15	STH 15 EB	478	PORKCHOP ISLAND RT
100+49	--	100+75	STH 15 WB	145	PORKCHOP ISLAND LT
101+09	--	103+50	STH 15 EB	953	SPLITTER ISLAND
107+59	--	108+57	STH 15 EB	392	SPLITTER ISLAND
40+72	--	43+59	USH 45	2,142	SPLITTER ISLAND
		TOTAL		4,110	

ALL ITEMS ARE CATEGORY 0010
UNLESS NOTED OTHERWISE

STORM SEWER STRUCTURES, COVERS, AND GRATES SUMMARY

STRUCTURE NUMBER	STATION	OFFSET	LOCATION	+ RIM ELEVATION	611.0535 MANHOLE COVERS TYPE J-SPECIAL EACH	611.0606 INLET COVERS TYPE B EACH	611.0609 INLET COVERS TYPE B-A EACH	611.0627 INLET COVERS TYPE HM EACH	611.0630 INLET COVERS TYPE HM-GJ EACH	611.0636 INLET COVERS TYPE HM-S EACH	611.0642 INLETS COVERS TYPE MS EACH	611.0654 INLET COVERS TYPE V EACH	REMARKS
43	43+53	14.6' LT	USH 45 NB	770.33	-	-	-	-	1	-	-	-	
43.1	43+52	1.3' LT	USH 45 NB	770.64	-	-	-	-	1	-	-	-	
43.2	43+23	12.8' LT	USH 45 NB	770.49	-	-	-	-	1	-	-	-	
48	48+02	1.3' LT	USH 45 NB	763.90	-	-	-	-	1	-	-	-	
100.1	100+75	24.8' LT	STH 15 WB	776.09	-	-	-	-	-	-	-	1	
101.1	101+15	38.7' RT	STH 15 EB	776.06	-	-	-	-	-	-	-	1	
101.2	100+88	44.2' RT	STH 15 EB	776.65	-	-	-	-	-	-	-	1	
103	102+24	18.0' LT	STH 15 WB	775.04	1	-	-	-	-	-	-	-	
104	103+55	18.0' LT	STH 15 WB	774.45	1	-	-	-	-	-	-	-	
104.1	103+55	29.5' LT	STH 15 WB	774.17	-	-	-	1	-	-	-	-	
105	103+95	18.0' LT	STH 15 WB	774.41	1	-	-	-	-	-	-	-	
105.1	103+95	29.5' LT	STH 15 WB	774.13	-	-	-	-	-	1	-	-	
106	103+98	9.6' RT	STH 15 WB	774.05	-	-	-	1	-	-	-	-	
106.1	103+57	12.9' RT	STH 15 WB	774.01	-	-	-	-	-	1	-	-	
106.2	104+24	7.6' RT	STH 15 WB	774.11	-	-	-	1	-	-	-	-	
107	103+99	1.5' LT	STH 15 EB	774.22	-	-	-	-	-	1	-	-	
107.1	103+73	1.5' LT	STH 15 EB	774.24	-	-	-	1	-	-	-	-	
107.2	104+25	1.5' LT	STH 15 EB	774.24	-	-	-	1	-	-	-	-	
107.3	104+51	1.5' LT	STH 15 EB	774.28	-	-	-	1	-	-	-	-	
110.1	110+01	5.5' RT	STH 15 WB	778.71	-	-	-	1	-	-	-	-	
110.2	110+01	21.2' RT	STH 15 WB	778.60	-	-	-	1	-	-	-	-	
113.1	113+49	22.6' RT	STH 15 WB	779.93	-	1	-	-	-	-	-	-	
120.1	120+69	20.4' RT	STH 15 WB	784.38	-	-	1	-	-	-	-	-	
120.2	120+98	27.9' RT	STH 15 WB	784.99	-	-	-	-	-	1	-	-	
122.1	121+87	25.9' RT	STH 15 WB	785.05	-	-	-	-	-	1	-	-	
128.1	128+00	29.7' RT	STH 15 WB	779.75	-	-	-	-	-	-	1	-	INLET COVER - SINGLE SLOPE
136.1	136+00	28.8' RT	STH 15 WB	769.85	-	-	-	-	-	-	1	-	INLET COVER - SINGLE SLOPE
142.1	142+20	25.7' RT	STH 15 WB	766.03	-	-	-	-	-	-	2	-	INLET COVERS - NO SLOPE
149.1	148+91	37.3' RT	STH 15 WB	769.06	-	-	-	-	-	-	1	-	INLET COVER - NO SLOPE
153.1	152+96	31.1' RT	STH 15 WB	769.96	-	-	-	-	-	-	1	-	INLET COVER - NO SLOPE
161.1	160+27	40.3' RT	STH 15 WB	773.92	-	-	-	-	-	-	1	-	INLET COVER - NO SLOPE
168.1	168+00	29.3' RT	STH 15 WB	775.97	-	-	-	-	-	-	1	-	INLET COVER - SINGLE SLOPE
177.1	177+00	29.3' RT	STH 15 WB	779.57	-	-	-	-	-	-	1	-	INLET COVER - SINGLE SLOPE
185.1	185+50	29.3' RT	STH 15 WB	782.97	-	-	-	-	-	-	1	-	INLET COVER - SINGLE SLOPE
193.1	192+85	32.2' RT	STH 15 WB	786.54	-	-	-	-	-	-	1	-	INLET COVER - NO SLOPE
201.1	201+50	26.3' RT	STH 15 WB	794.51	-	-	-	-	-	-	1	-	INLET COVER - SINGLE SLOPE
210.1	210+00	29.2' RT	STH 15 WB	815.06	-	-	-	-	-	-	1	-	INLET COVER - SINGLE SLOPE
216.1	216+66	28.4' LT	STH 15 EB	825.22	-	-	-	-	-	-	1	-	INLET COVER - NO SLOPE
227.1	227+00	27.8' RT	STH 15 WB	820.72	-	-	-	-	-	-	1	-	INLET COVER - SINGLE SLOPE
231.1	231+35	27.3' RT	STH 15 WB	816.14	-	-	-	-	-	-	1	-	INLET COVER - NO SLOPE
237.1	237+50	35.7' RT	STH 15 WB	809.32	-	-	-	-	-	-	1	-	INLET COVER - SINGLE SLOPE
243.1	243+24	33.7' RT	STH 15 WB	-	-	-	-	-	-	-	*	-	
245.1	244+90	33.5' RT	STH 15 WB	804.68	-	-	-	-	-	-	1	-	INLET COVER - NO SLOPE
246.1	246+37	30.7' RT	STH 15 WB	804.77	-	-	-	-	-	-	1	-	INLET COVER - NO SLOPE
252.1	251+43	35.0' RT	STH 15 WB	806.35	-	-	-	-	-	-	1	-	INLET COVER - SINGLE SLOPE
		TOTAL			3	1	1	8	4	5	20	3	

* QUANTITY INCLUDED IN STRUCTURE PLAN C-44-123

\+ RIM ELEVATION SHOWN FOR MANHOLES ARE AT RIM OF MANHOLE COVER AND FOR INLETS ARE AT FLOWLINE OF CURB AND GUTTER OR BOTTOM OF DITCH.

ALL ITEMS ARE CATEGORY 0010
UNLESS NOTED OTHERWISE

STORM SEWER STRUCTURES, COVERS, AND GRATES SUMMARY (CONTINUED)

STRUCTURE NUMBER	STATION	OFFSET	LOCATION	+ RIM ELEVATION	611.1005 CATCH BASINS 5-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.3003 INLETS 3-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3230 INLETS 2X3-FT EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	611.3902 INLETS MEDIAN 2 GRATE EACH	** 650.4000 CONSTRUCTION STAKING STORM SEWER EACH	++ DEPTH IN FEET	REMARKS
43	43+53	14.6' LT	USH 45 NB	770.33	-	-	-	-	-	1	-	-	1	3.33	
43.1	43+52	1.3' LT	USH 45 NB	770.64	-	-	-	-	-	1	-	-	1	3.50	
43.2	43+23	12.8' LT	USH 45 NB	770.49	-	-	-	-	-	1	-	-	1	2.29	
48	48+02	1.3' LT	USH 45 NB	763.90	-	-	-	-	-	1	-	-	1	3.86	
100.1	100+75	24.8' LT	STH 15 WB	776.09	-	-	-	1	-	-	-	-	1	6.20	
101.1	101+15	38.8' RT	STH 15 EB	776.06	-	-	-	-	1	-	-	-	1	4.19	
101.2	100+88	44.2' RT	STH 15 EB	776.65	-	-	-	-	1	-	-	-	1	4.65	
103	102+24	18.0' LT	STH 15 WB	775.04	-	1	-	-	-	-	-	-	1	5.82	
104	103+55	18.0' LT	STH 15 WB	774.45	-	1	-	-	-	-	-	-	1	4.97	
104.1	103+55	29.5' LT	STH 15 WB	774.17	-	-	-	-	-	1	-	-	1	2.58	
105	103+95	18.0' LT	STH 15 WB	774.41	-	-	1	-	-	-	-	-	1	4.85	
105.1	103+95	29.5' LT	STH 15 WB	774.13	-	-	-	-	-	1	-	-	1	3.46	
106	103+98	9.6' RT	STH 15 WB	774.05	1	-	-	-	-	-	-	-	1	4.35	DEPTH DOES NOT INCLUDE 2 FEET DEEP SUMP
106.1	103+57	12.9' RT	STH 15 WB	774.02	-	-	-	-	-	1	-	-	1	3.65	
106.2	104+24	7.6' RT	STH 15 WB	774.11	-	-	-	-	-	1	-	-	1	3.89	
107	103+99	1.5' LT	STH 15 EB	774.22	1	-	-	-	-	-	-	-	1	4.46	DEPTH DOES NOT INCLUDE 2 FEET DEEP SUMP
107.1	103+73	1.5' LT	STH 15 EB	774.24	-	-	-	-	-	1	-	-	1	3.22	
107.2	104+25	1.5' LT	STH 15 EB	774.24	-	-	-	-	-	1	-	-	1	3.85	
107.3	104+51	1.5' LT	STH 15 EB	774.28	-	-	-	-	-	1	-	-	1	3.26	
110.1	110+01	5.5' RT	STH 15 WB	778.71	-	-	-	-	-	1	-	-	1	5.01	
110.2	110+01	21.2' RT	STH 15 WB	778.60	-	-	-	-	-	1	-	-	1	4.75	
113.1	113+49	22.6' RT	STH 15 WB	779.93	-	-	-	-	1	-	-	-	1	4.05	
120.1	120+69	20.4' RT	STH 15 WB	784.38	-	-	-	-	1	-	-	-	1	4.97	
120.2	120+98	27.9' RT	STH 15 WB	784.99	-	-	-	-	1	-	-	-	1	4.78	
122.1	121+87	25.9' RT	STH 15 WB	785.05	-	-	-	-	1	-	-	-	1	3.74	
128.1	128+00	29.7' RT	STH 15 WB	779.75	-	-	-	-	-	-	1	-	1	2.32	INLET COVER - SINGLE SLOPE
136.1	136+00	28.8' RT	STH 15 WB	769.85	-	-	-	-	-	-	1	-	1	2.41	INLET COVER - SINGLE SLOPE
142.1	142+20	25.7' RT	STH 15 WB	766.03	-	-	-	-	-	-	-	1	1	3.53	INLET COVER - NO SLOPE
149.1	148+91	37.3' RT	STH 15 WB	769.06	-	-	-	-	-	-	1	-	1	4.66	INLET COVER - NO SLOPE
153.1	152+96	31.1' RT	STH 15 WB	769.96	-	-	-	-	-	-	1	-	1	3.57	INLET COVER - NO SLOPE
161.1	160+27	40.3' RT	STH 15 WB	773.92	-	-	-	-	-	-	1	-	1	5.98	INLET COVER - NO SLOPE
168.1	168+00	29.3' RT	STH 15 WB	775.97	-	-	-	-	-	-	1	-	1	2.53	INLET COVER - SINGLE SLOPE
177.1	177+00	29.3' RT	STH 15 WB	779.57	-	-	-	-	-	-	1	-	1	2.14	INLET COVER - SINGLE SLOPE
185.1	185+50	29.3' RT	STH 15 WB	782.97	-	-	-	-	-	-	1	-	1	2.53	INLET COVER - SINGLE SLOPE
193.1	192+85	32.2' RT	STH 15 WB	786.54	-	-	-	-	-	-	1	-	1	2.87	INLET COVER - NO SLOPE
201.1	201+50	26.3' RT	STH 15 WB	794.51	-	-	-	-	-	-	1	-	1	2.57	INLET COVER - SINGLE SLOPE
210.1	210+00	29.2' RT	STH 15 WB	815.06	-	-	-	-	-	-	1	-	1	3.09	INLET COVER - SINGLE SLOPE
216.1	216+66	28.4' LT	STH 15 EB	825.22	-	-	-	-	-	-	1	-	1	2.90	INLET COVER - NO SLOPE
227.1	227+00	27.8' RT	STH 15 WB	820.72	-	-	-	-	-	-	1	-	1	3.02	INLET COVER - SINGLE SLOPE
231.1	231+35	27.3' RT	STH 15 WB	816.14	-	-	-	-	-	-	1	-	1	2.72	INLET COVER - NO SLOPE
237.1	237+50	35.7' RT	STH 15 WB	809.32	-	-	-	-	-	-	1	-	1	2.13	INLET COVER - SINGLE SLOPE
243.1	243+24	33.7' RT	STH 15 WB	-	-	-	-	-	-	-	-	*	--	-	
245.1	244+90	33.5' RT	STH 15 WB	804.68	-	-	-	-	-	-	1	-	1	3.34	INLET COVER - NO SLOPE
246.1	246+37	30.7' RT	STH 15 WB	804.77	-	-	-	-	-	-	1	-	1	2.41	INLET COVER - NO SLOPE
252.1	251+43	35.0' RT	STH 15 WB	806.35	-	-	-	-	-	-	1	-	1	2.78	INLET COVER - SINGLE SLOPE
		TOTAL			2	2	1	1	6	13	18	1	44	SUB-TOTAL	
													27	**TOTAL FROM STORM SEWER PIPE ENDWALLS AND MARKERS SUMMARY**	
													71	**PROJECT TOTAL**	

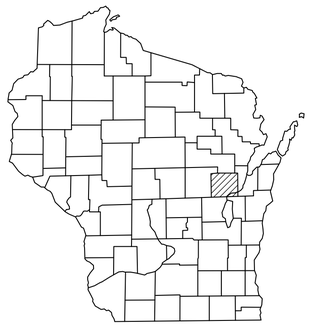
* QUANTITY INCLUDED IN STRUCTURE PLAN C-44-123

** ITEM FOUND IN STORM SEWER PIPE ENDWALLS AND MARKERS SUMMARY.

\+ RIM ELEVATION SHOWN FOR MANHOLES ARE AT RIM OF MANHOLE COVER AND FOR INLETS ARE AT FLOWLINE OF CURB AND GUTTER OR BOTTOM OF DITCH.

++ DEPTH SHOWN IS RIM ELEVATION SUBTRACTED FROM THE INLET ELEVATION IN STORM SEWER SUMMARY.

ALL ITEMS ARE CATEGORY 0010
UNLESS NOTED OTHERWISE



STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

TRANSPORTATION PROJECT PLAT TITLE SHEET

PROJECT NO. 1146-75-22

STH 76 - NEW LONDON
(LILY OF THE VALLEY DRIVE - USH 45)

STH 15
OUTAGAMIE COUNTY

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, OUTAGAMIE COUNTY ZONE, ENGLISH, NAD83(2007) ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 MONUMENTS AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT. TYPE 2 MONUMENTS ARE TYPICALLY 1" I.D. x 24" IRON PIPES WEIGHING 1.68 LBS/FT. UNLESS OTHERWISE NOTED.

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.

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

NOT WITHSTANDING ITS DEPICTION ON A PLAT, THE BOUNDARY OF A PARCEL EXTENDS TO THE BOUNDARY OF THE ADJOINING PROPERTY PARCEL OR BODY OF WATER.

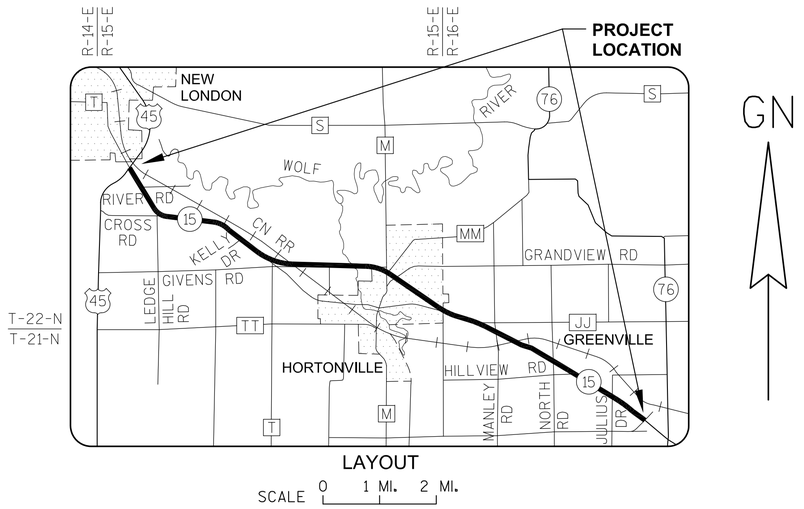
A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY 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.

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE THE 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, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHT TO MAKE OR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

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

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

FOR CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE WISCONSIN DEPARTMENT OF TRANSPORTATION REGION OFFICE IN GREEN BAY.



LAYOUT

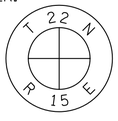
SCALE 0 1 MI. 2 MI.

GN

CONVENTIONAL SYMBOLS AND ABBREVIATIONS

SECTION LINE		AC	ACRES
QUARTER LINE		ACC	ACCESS CONTROL
SIXTEENTH LINE		AP	ACCESS POINT
NEW REFERENCE LINE		BAR	ROUND IRON REBAR
NEW R/W LINE		BLDG	BUILDING
EXISTING R/W LINE		C	CURVE
PROPERTY LINE	P.L.	CSM	CERTIFIED SURVEY MAP
LOT AND TIE LINES		DOC	DOCUMENT
UNDERGROUND FACILITY	G (TYPE)	E	ELECTRIC CABLE
TEMP. LIMITED EASEMENT		EX	EXISTING
PERM. LIMITED EASEMENT		FO	FIBER OPTIC CABLE
R/W MONUMENT (SET)	●	FRAC	FRACTIONAL
IRON PIPE OR BAR (FOUND)	○	G	GAS MAIN
SIGN		GAR	GARAGE
POWER POLE		H	HOUSE
TELEPHONE POLE		HE	HIGHWAY EASEMENT
UTILITY PEDESTAL		INL	INLET
LIGHT POLE		IP	IRON PIPE
POLE		J/I	JACKET/IMAGE
MANHOLE		MC	MEANDER CORNER
INLET		MH	MANHOLE
HYDRANT		M/L	MEANDER LINE
VALVE		N.T.	NON-TANGENT
R/W GUARD POST		OH	OVERHEAD UTILITY LINE
P. POLE (COMPENSABLE)		OL	OUTLOT
PEDESTAL (COMPENSABLE)		PID	TAX PARCEL IDENTIFICATION NUMBER
RECORDED AS	(SLANTED)	PERM	PERMANENT
SAME OWNERSHIP		P.L.	PROPERTY LINE
ACCESS RESTRICTED (BY ACQUISITION)		PLE	PERMANENT LIMITED EASEMENT
ACCESS RESTRICTED (BY PREVIOUS PROJECT/CONTROL)		POS	PLAT OF SURVEY
NO ACCESS (BY STATUTORY AUTHORITY)		PP	POWER POLE
POINT NUMBER, MAJOR	X	R/L	REFERENCE LINE
POINT NUMBER, MINOR	X	ROR	RELEASE OF RIGHTS
POINT NUMBER, EXISTING IRON PIPES / MONUMENTS	X	R/W	RIGHT OF WAY
		RWGP	R/W GUARD POST
		SAN	SANITARY SEWER
		SEC	SECTION
		SS	STORM SEWER
		T	TELEPHONE CABLE
		TEMP	TEMPORARY
		TLE	TEMPORARY LIMITED EASEMENT
		TV	CABLE TELEVISION
		VAR	VARIES
		V/P	VOLUME/PAGE

SECTION CORNER:



APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22-4.01
SHEET 2 OF 2
AMENDMENT NO:

REVISED: 05/01/2014

040400_15.DWG

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01
AMENDMENT NO: 1

AMENDS PARCEL 1 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.01, RECORDED AS DOCUMENT #2016623.
PART OF THE NW1/4-NE1/4 OF SECTION 19, T22N, R15E, TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

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

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

Document #: **2093657**
Date: **12-29-2016** Time: **02:23 PM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP, REGISTER OF DEEDS
This document has been electronically recorded and returned to:
WiDotNeRegionGreenbay

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.01

AMENDMENT NO: 1

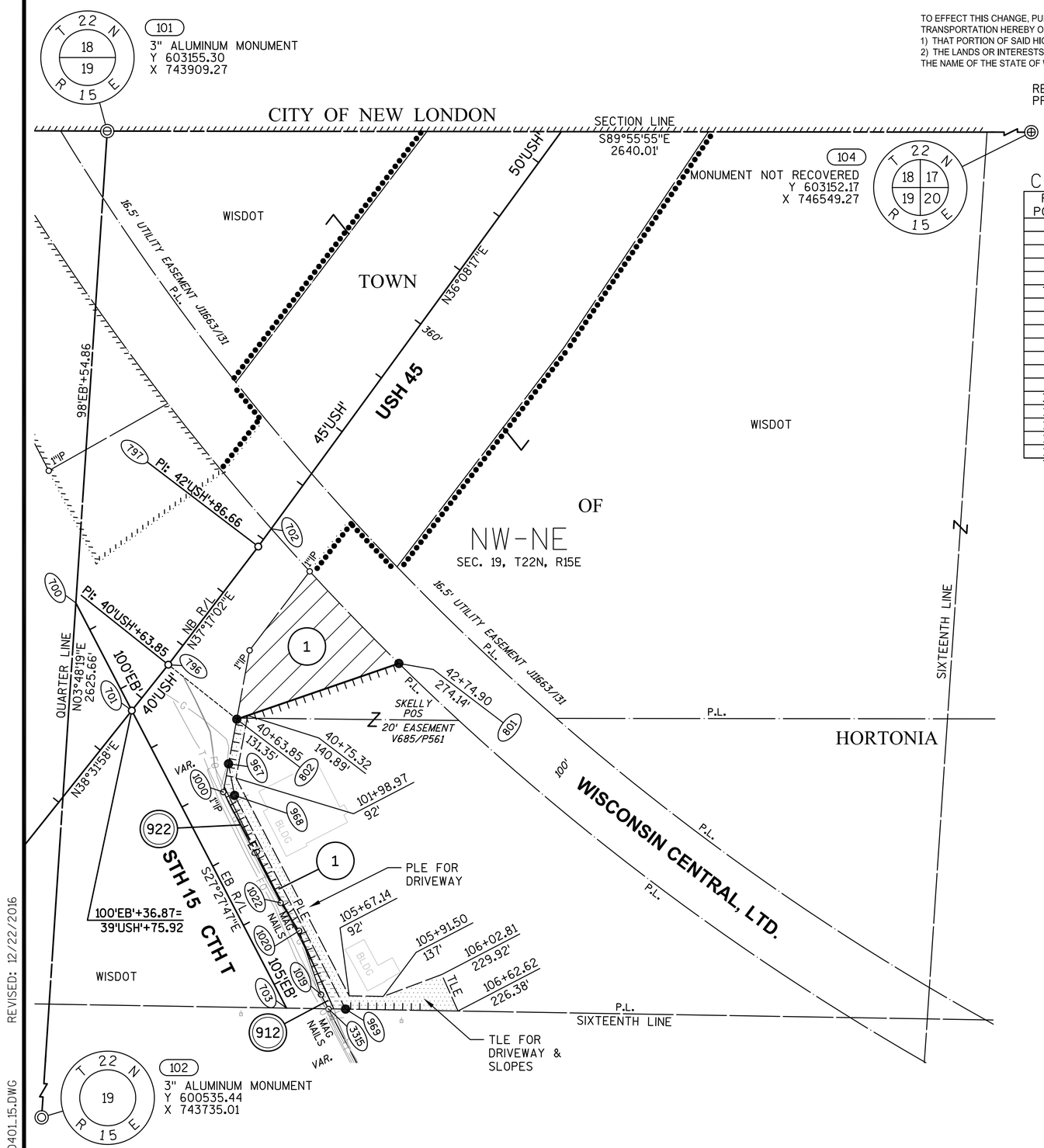
SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	PLE ACRES PERM.	TLE ACRES TEMP.
1	JERRY A. FRICK	FEE, PLE, ACCESS RIGHTS, TLE	0.592	0	0.592	0.124	0.264

UTILITY INTERESTS REQUIRED:

912	NEW LONDON UTILITIES - ELECTRIC	RELEASE OF RIGHTS
922	AT&T WISCONSIN	RELEASE OF RIGHTS



COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
101	700	S03°48'19"W	709.48'
700	701	S27°27'47"E	182.01'
701	796	N38°31'58"E	87.93'
796	797	N37°17'02"E	222.81'
797	702	N36°08'17"E	33.10'
*702	801	S43°26'48"E	278.44'
801	802	S71°00'50"W	257.21'
802	796	N51°28'02"W	131.35'
802	967	S10°30'31"W	67.97'
967	968	S10°41'35"E	48.31'
968	969	S27°27'47"E	361.39'
969	3315	N89°02'12"W	25.75'
3315	1019	N27°27'47"W	24.12'
1019	1020	N18°55'56"W	101.12'
1020	1022	N33°28'10"W	50.28'
1022	1000	N27°23'00"W	187.19'
1000	967	N10°30'31"E	43.21'

*SEE CURVE TABLE

BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15 AND CTH T	TPP NO: 6430-06-00 - 4.18	2011
USH 45	TPP NO: 6430-06-00 - 4.18	2011

EXISTING ACCESS CONTROL: PROJECT 1146-4-21

PLE STATION/OFFSET TABLE

POINT	STATION	OFFSET
967	101+74.67	91.94'
968	102+20.92	78.00'
969	105+82.31	78.00'
3315	105+70.05	55.35'
1019	105+45.92	55.35'
1020	104+45.92	70.35'
1022	103+95.92	65.09'
1000	102+08.73	65.35'

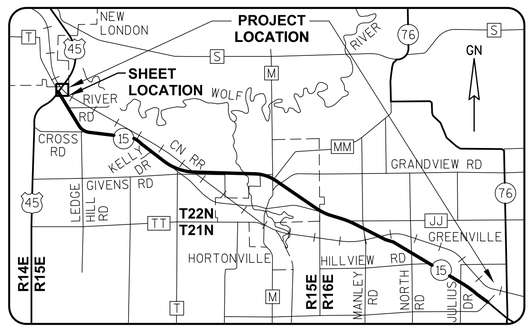
CURVE TABLE

FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
702	801	3877.07'	278.50'	S43°26'48"E	278.44'

GN

SCALE, FEET
0' 100' 200'

WISCONSIN
JAY W. PANETTI
S-2747
WAUPUN, WI
LAND SURVEYOR



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.01, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 12/22/2016 JAY W. PANETTI
PLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 12/23/2016 CURT VAN EREM
REAL ESTATE SUPERVISOR

APPROVED FOR TENTATIVE ADJUSTMENT 2019

040401_15.DWG REVISED: 12/22/2016

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01

PART OF THE NW1/4-NE1/4 OF SECTION 19, T22N, R15E, TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

Document #: **2016623**
Date: **06-04-2014** Time: **10:36 AM** Pages: **2**
Fee: **$25.00** County: **OUTAGAMIE** State: **WI**

SARAH R VAN CAMP
REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.01
SHEET 1 OF 2
AMENDMENT NO:

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

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

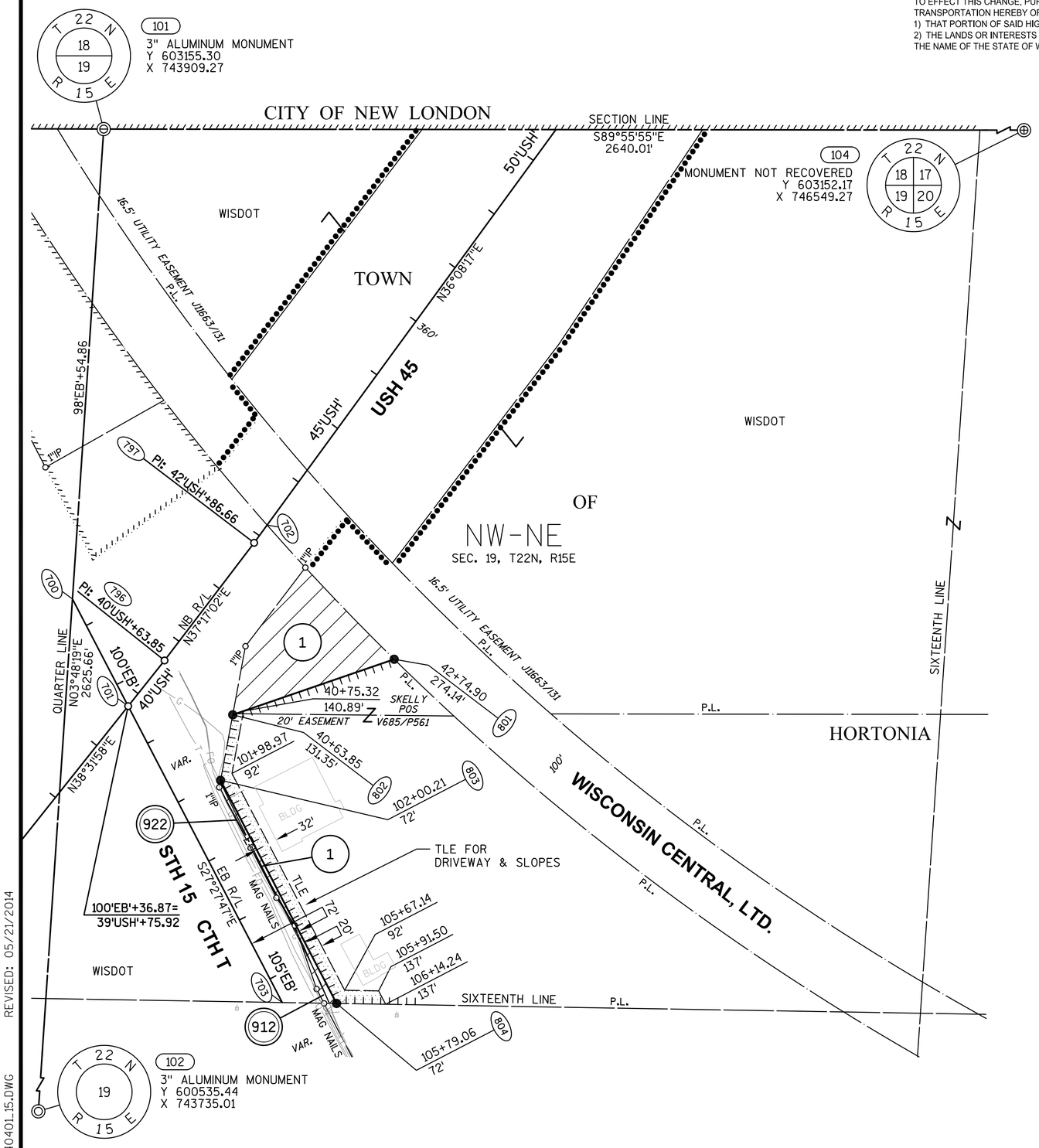
SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
1	JERRY A. FRICK	FEE, ACCESS RIGHTS, TLE	0.658	0	0.658	0.234

UTILITY INTERESTS REQUIRED:

912	NEW LONDON UTILITIES - ELECTRIC	RELEASE OF RIGHTS
922	AT&T WISCONSIN	RELEASE OF RIGHTS



BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15 AND CTH T	TPP NO: 6430-06-00 - 4.18	2011
USH 45	TPP NO: 6430-06-00 - 4.18	2011

EXISTING ACCESS CONTROL: PROJECT 1146-4-21

COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
101	700	S03°48'19"W	709.48'
700	701	S27°27'47"E	182.01'
701	796	N38°31'58"E	87.93'
796	797	N37°17'02"E	222.81'
797	702	N36°08'17"E	33.10'
*702	801	S43°26'48"E	278.44'
801	802	S71°00'50"W	257.21'
802	803	S10°30'31"W	100.38'
803	804	S27°27'47"E	378.85'
804	703	N89°02'12"W	81.87'
703	701	N27°27'47"W	503.22'

*SEE CURVE TABLE

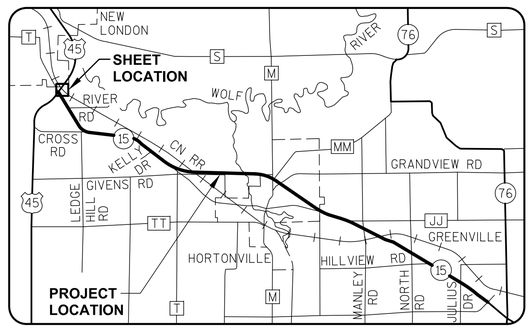
CURVE TABLE

FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
702	801	3877.07'	278.50'	S43°26'48"E	278.44'

GN

SCALE, FEET
0' 100' 200'

WISCONSIN
JAY W. PANETTI S-2747 WAUPUN, WI
LAND SURVEYOR



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.01, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 5/21/2014 JAY W. PANETTI
RLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 6/3/2014 CURT VAN EREM
REAL ESTATE SUPERVISOR

APPROVED FOR TITLE ONLY ADJUSTMENTS

040401_15.DWG REVISED: 05/21/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.02

PART OF LOT 1 OF CSM 4173 AND PART OF THE SW1/4-NE1/4 OF SECTION 19, T22N, R15E, ALL IN THE TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

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

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

Document #: **2040562**
Date: **04-15-2015** Time: **01:47 PM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP , REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.02
AMENDMENT NO:

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 INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
2	THOMAS J. SELLS	FEE, ACCESS RIGHTS, TLE	0.803	0	0.803	0.114
3	HORTONIA RIVER ROAD, LLC	FEE, TLE	0.993	0	0.993	0.115
4	RUSSEL J. OBERSTADT	FEE, TLE	1.593	0.026	1.619	0.138

UTILITY INTERESTS REQUIRED:

903	CHARTER COMMUNICATIONS	RELEASE OF RIGHTS
912	NEW LONDON UTILITIES - ELECTRIC	RELEASE OF RIGHTS
922	AT&T WISCONSIN	RELEASE OF RIGHTS

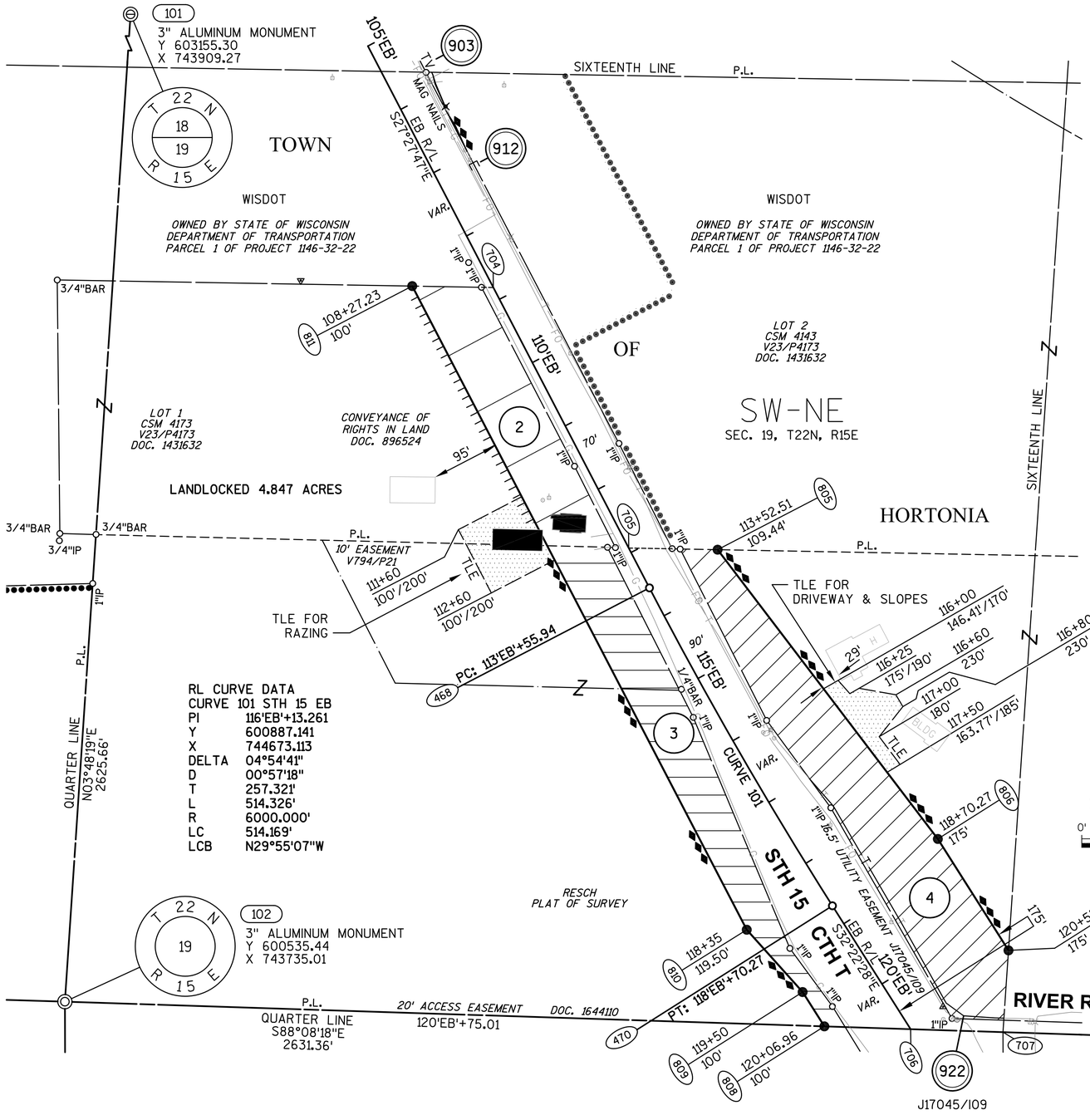
BASIS OF EXISTING HIGHWAY R/W

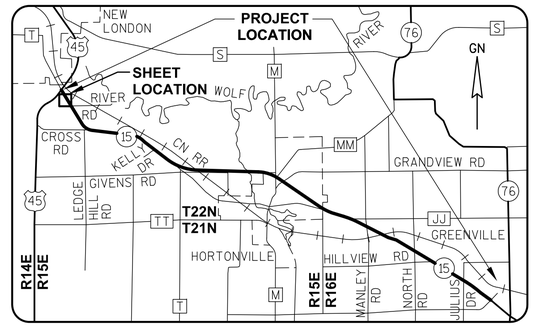
ROUTE	BASIS	YEAR
STH 15 AND CTH T	TPP NO: 6430-06-00 - 4.17, 4.18	2011
RIVER ROAD	TPP NO: 6430-06-00 - 4.17	2011

EXISTING ACCESS CONTROL: PROJECT 1146-1-22/F 07(19)

COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
105	707	N88°08'18"W	1315.68'
707	706	N88°08'18"W	129.53'
706	808	N88°08'18"W	120.96'
808	809	N32°22'28"W	56.96'
809	810	N41°53'16"W	117.32'
810	811	N27°27'47"W	1016.79'
811	704	S89°00'40"E	113.74'
704	705	S27°27'47"E	411.60'
705	805	S88°56'08"E	124.56'
805	806	S37°17'11"E	509.62'
806	807	S32°22'28"E	184.93'
807	707	S03°51'15"W	114.91'





GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.02, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 11/06/2014 JAY W. PANETTI
PLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 4/09/2015 CURT VAN EREM
REAL ESTATE SUPERVISOR

APPROVED FOR PRELIMINARY ADJUSTMENTS 2015

040402_15.DWG REVISED: 11/06/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.03

PART OF THE SE1/4-NE1/4 OF SECTION 19, T22N, R15E, TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

Document #: **2040563**
Date: **04-15-2015** Time: **01:47 PM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP , REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.03
AMENDMENT NO:

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

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

SCHEDULE OF LANDS & INTERESTS REQUIRED

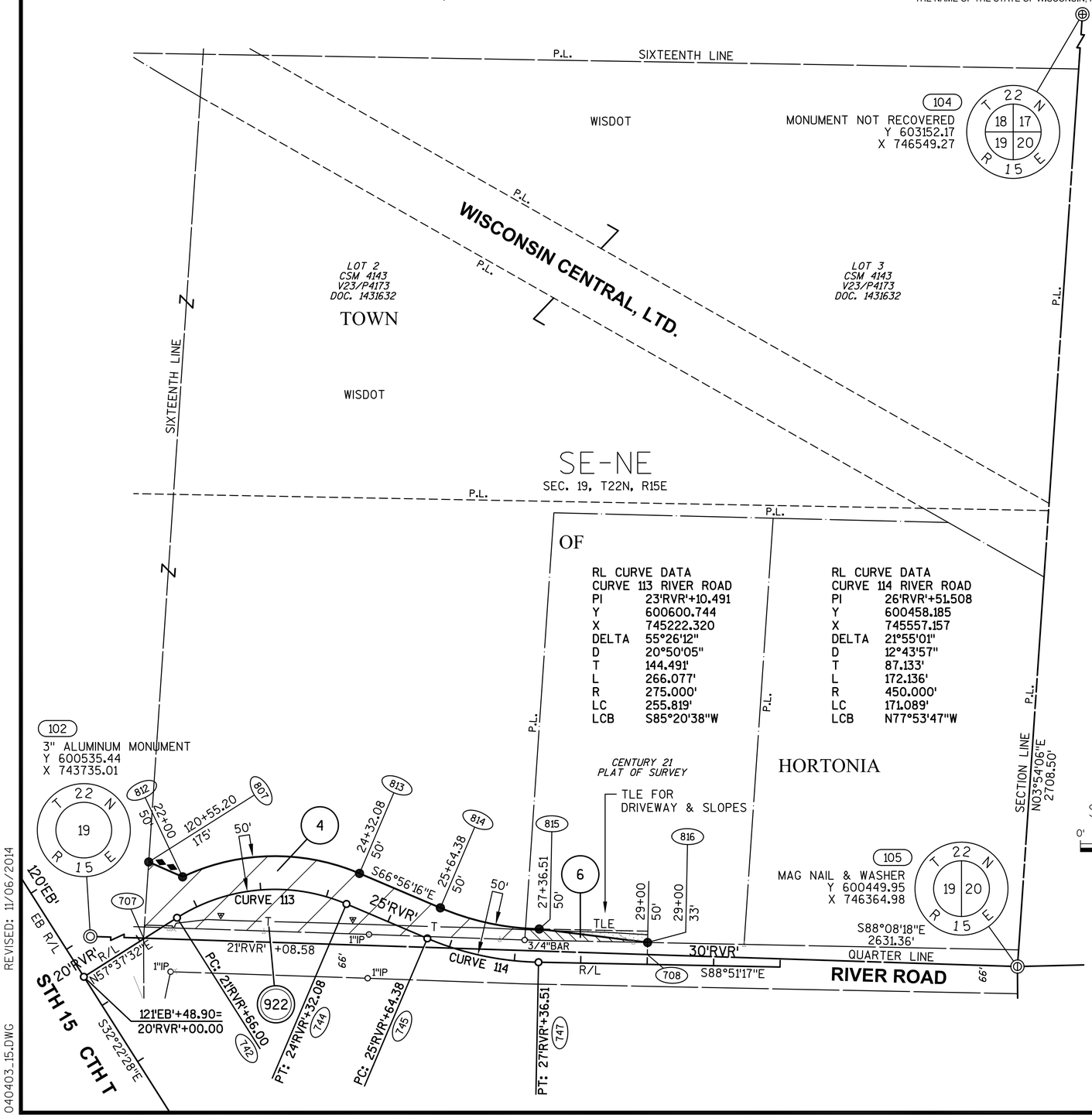
OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W NEW	ACRES REQUIRED EXISTING	TOTAL	TLE ACRES TEMP.
4	RUSSEL J. OBERSTADT	FEE	1.011	0.217	1.228	0
6	ROBERT J. FIELDS, JR. & JULIA K. FIELDS	FEE,TLE	0.040	0.072	0.112	0.032

UTILITY INTERESTS REQUIRED:

922	AT&T WISCONSIN	RELEASE OF RIGHTS

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.



GN

SCALE, FEET
0' 100' 200'

WISCONSIN
JAY W. PANETTI S-2747 WAUPUN, WI
LAND SURVEYOR

BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15 AND CTH T	TPP NO: 6430-06-00 - 4.17	2011
RIVER ROAD	TPP NO: 6430-06-00 - 4.17	2011

EXISTING ACCESS CONTROL: PROJECT 1146-1-22/F 07(19)

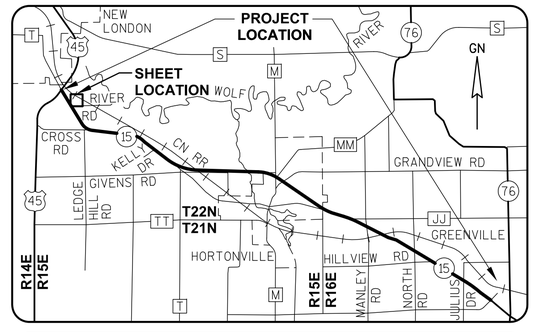
COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
105	708	N88°08'18"W	557.24'
708	707	N88°08'18"W	758.44'
707	807	N03°51'15"E	114.91'
807	812	S66°18'40"E	55.67'
*812	813	N88°53'09"E	266.21'
813	814	S66°56'16"E	132.30'
*814	815	S77°53'47"E	152.08'
815	816	S82°55'06"E	164.37'
816	708	S01°08'43"W	18.12'

*SEE CURVE TABLE

CURVE TABLE

FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
812	813	325.00'	274.27'	N88°53'09"E	266.21'
814	815	400.00'	153.01'	S77°53'47"E	152.08'



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.03, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 11/06/2014 JAY W PANETTI
PLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 4/09/2015 CURT VAN EREM
REAL ESTATE SUPERVISOR

APPROVED FOR PRELIMINARY ADJUSTMENTS ONLY

REVISED: 11/06/2014
040403_15.DWG

APPRAISAL PLAT DATE:

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 INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
7	THOMAS ORT	FEE, TLE	0.238	0	0.238	0.482

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.04

PART OF THE NW1/4-SE1/4 OF SECTION 19, T22N, R15E, TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

Document #: **2040564**
Date: **04-15-2015** Time: **01:47 PM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP , REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

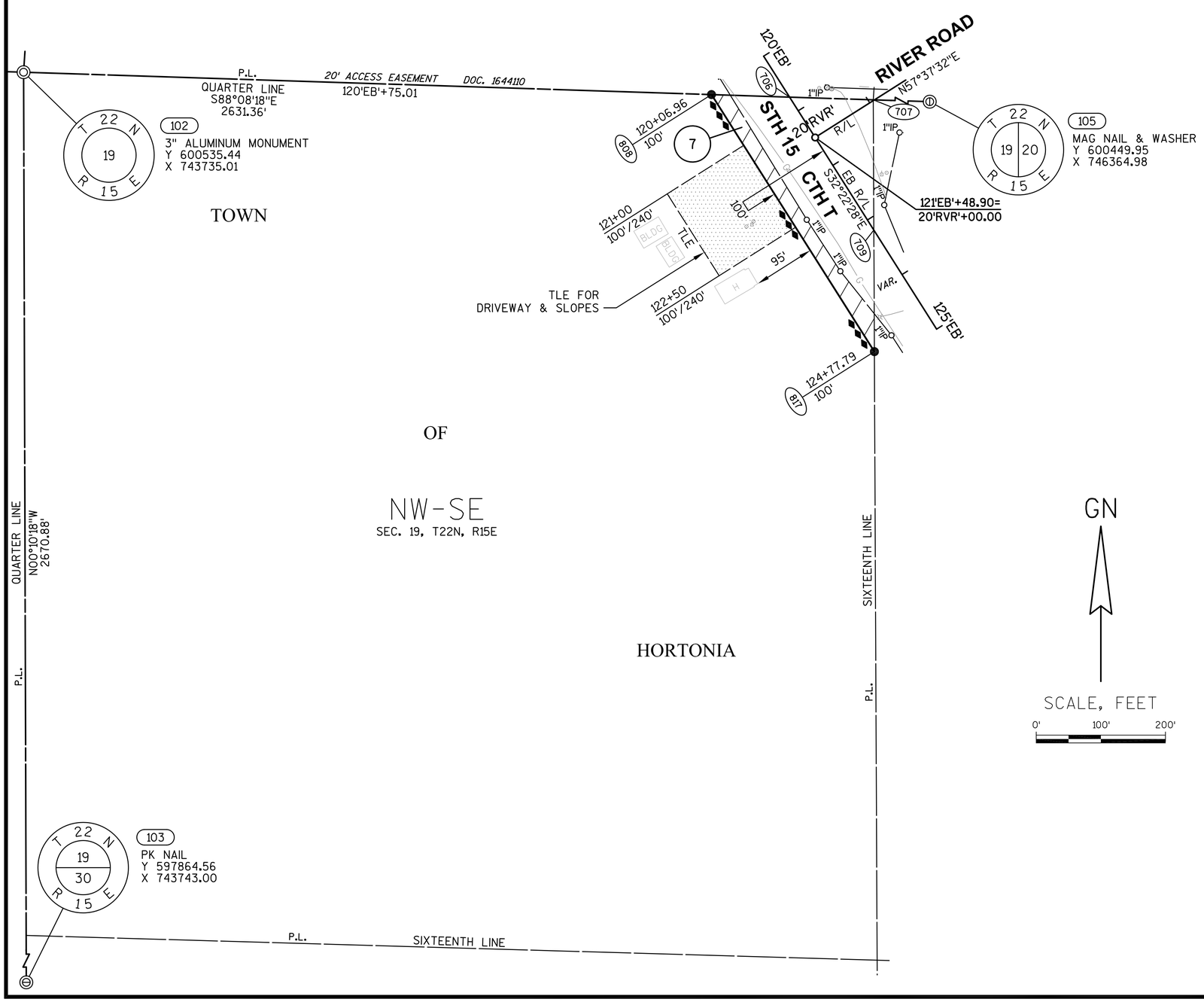
RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.04
AMENDMENT NO:

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

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

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.



BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15 AND CTH T	TPP NO: 6430-06-00 - 4.17	2011
RIVER ROAD	TPP NO: 6430-06-00 - 4.17	2011

EXISTING ACCESS CONTROL: PROJECT 1146-1-22/F 07(19)

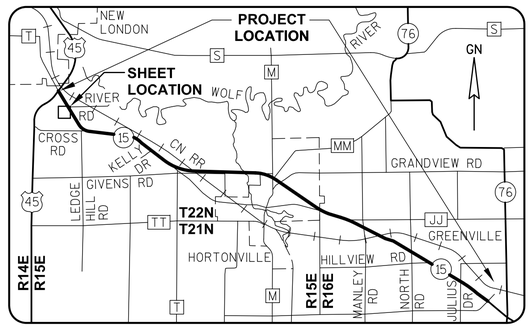
COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
105	707	N88°08'18"W	1315.68'
707	709	S00°15'26"E	201.43'
709	817	S00°15'26"E	188.09'
817	808	N32°22'28"W	470.84'
808	706	S88°08'18"E	120.96'
706	707	S88°08'18"E	129.53'

GN

SCALE, FEET
0' 100' 200'

WISCONSIN
JAY W. PANETTI S-2747 WAUPUN, WI
LAND SURVEYOR



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.04, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 11/06/2014 JAY W. PANETTI
PLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 4/09/2015 CURT VAN EREM
REAL ESTATE SUPERVISOR

APPROVED FOR PUBLICATION ONLY ADJUSTMENTS 2015

040404.15.DWG REVISED: 11/06/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.05

PART OF THE NE1/4-SE1/4 OF SECTION 19, T22N, R15E, TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

Document #: **2040565**
Date: **04-15-2015** Time: **01:48 PM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP , REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.05
AMENDMENT NO:

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 INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
8	DAVID LATHROP & JON LATHROP	FEE, ACCESS RIGHTS, TLE	4.934	0.808	5.742	0.288

UTILITY INTERESTS REQUIRED:

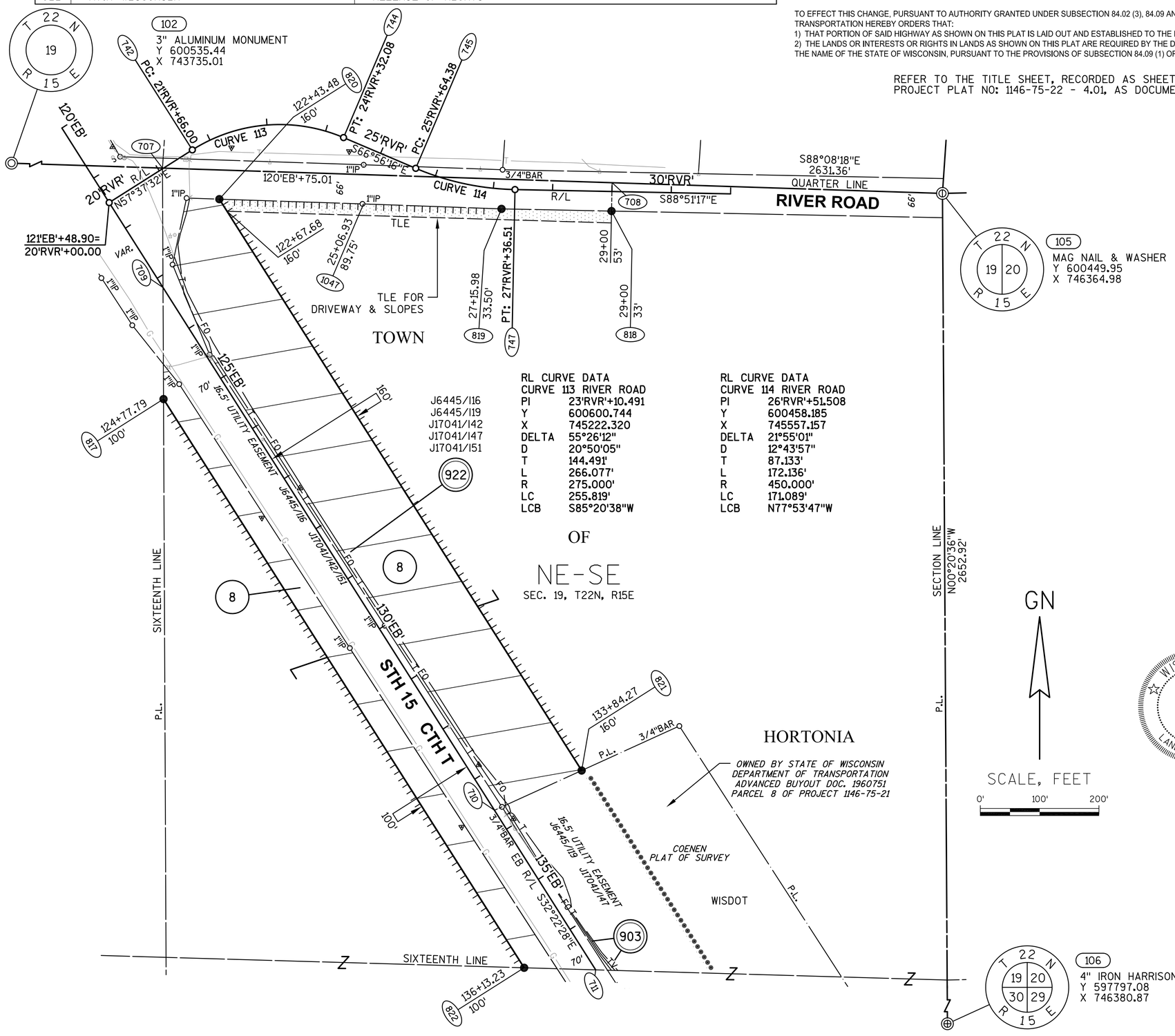
903	CHARTER COMMUNICATIONS	RELEASE OF RIGHTS
922	AT&T WISCONSIN	RELEASE OF RIGHTS

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

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

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.



RL CURVE DATA — CURVE 113 RIVER ROAD

PI	23'RVR'+10.491
Y	600600.744
X	745222.320
DELTA	55°26'12"
D	20°50'05"
T	144.491'
L	266.077'
R	275.000'
LC	255.819'
LCB	S85°20'38"W

RL CURVE DATA — CURVE 114 RIVER ROAD

PI	26'RVR'+51.508
Y	600458.185
X	745557.157
DELTA	21°55'01"
D	12°43'57"
T	87.133'
L	172.136'
R	450.000'
LC	171.089'
LCB	N77°53'47"W

OF

NE-SE
SEC. 19, T22N, R15E

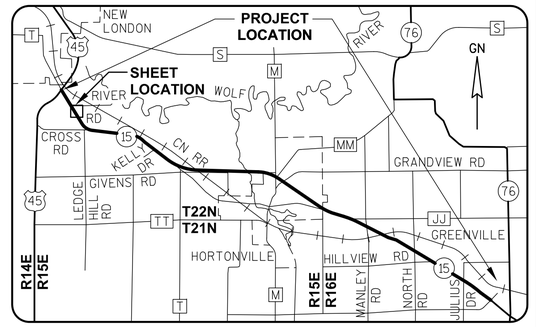
BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15 AND CTH T	TPP NO: 6430-06-00 - 4.17	2011
RIVER ROAD	TPP NO: 6430-06-00 - 4.17	2011

EXISTING ACCESS CONTROL: PROJECT 1146-1-22/F 07(19)

COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
105	708	N88°08'18"W	557.24'
708	818	S01°08'43"W	47.88'
818	819	N88°51'17"W	185.54'
819	820	N88°01'34"W	475.99'
820	821	S32°22'28"E	1140.79'
821	710	S65°29'26"W	161.52'
710	711	S32°22'28"E	318.61'
711	822	N88°20'12"W	120.68'
822	817	N32°22'28"W	1135.44'
817	709	N00°15'26"W	188.09'
709	707	N00°15'26"W	201.43'
707	708	S88°08'18"E	758.44'



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.05, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 11/06/2014 — JAY W. PANETTI, PLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 4/09/2015 — CURT VAN EREM, REAL ESTATE SUPERVISOR

APPROVED FOR SURVEY ADJUSTMENTS ONLY

040405_15.DWG REVISED: 11/06/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.06

PART OF THE SE1/4-SE1/4 OF SECTION 19, T22N, R15E, TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

Document #: **2029756**
Date: **11-12-2014** Time: **01:48 PM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP , REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.06
AMENDMENT NO:

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

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

SCHEDULE OF LANDS & INTERESTS REQUIRED

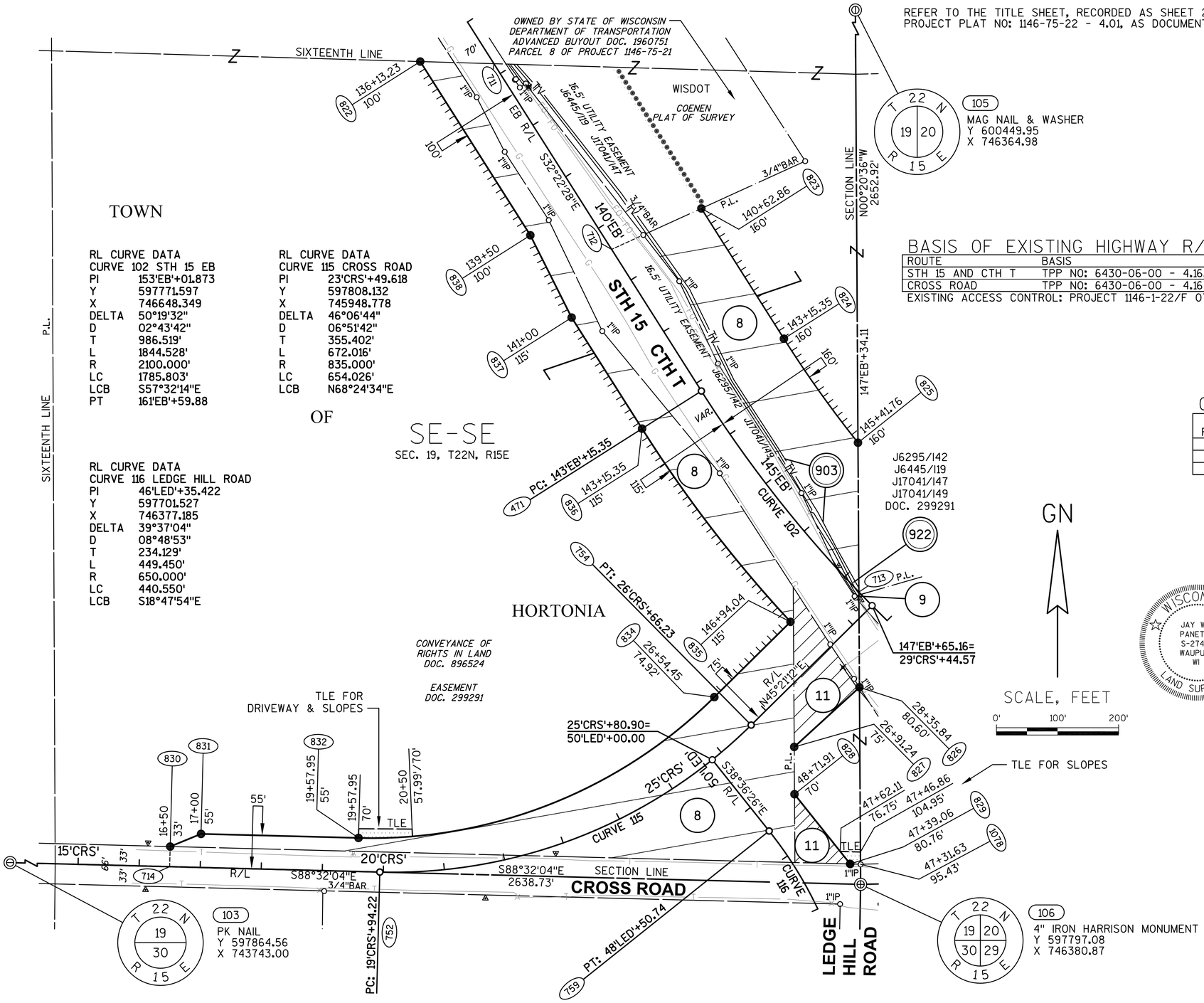
OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
8	DAVID LATHROP & JON LATHROP	FEE, ACCESS RIGHTS, TLE	5.061	0.776	5.837	0.029
9	FAITH CHRISTIAN CHURCH	FEE	0.001	0	0.001	0
11	BRIAN J. BERT	FEE,TLE	0.436	0.081	0.517	0.011

UTILITY INTERESTS REQUIRED:

903	CHARTER COMMUNICATIONS	RELEASE OF RIGHTS
922	AT&T WISCONSIN	RELEASE OF RIGHTS

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.



BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15 AND CTH T	TPP NO: 6430-06-00 - 4.16, 4.17	2011
CROSS ROAD	TPP NO: 6430-06-00 - 4.16	2011

EXISTING ACCESS CONTROL: PROJECT 1146-1-22/F 07(19)

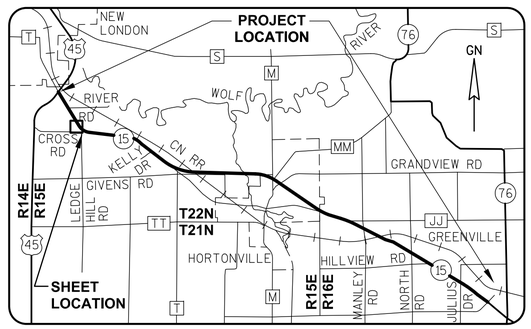
COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
106	714	N88°32'04"W	1131.85'
714	830	N01°27'56"E	33.00'
830	831	N67°42'58"E	54.63'
831	832	S88°32'04"E	257.95'
*832	834	N68°24'34"E	626.61'
834	835	N45°21'12"E	175.34'
*835	836	N37°32'25"W	398.88'
836	837	N32°22'28"W	215.35'
837	838	N26°39'50"W	150.75'
838	822	N32°22'28"W	336.77'
822	711	S88°20'12"E	120.68'
711	712	S32°22'28"E	359.96'
712	823	N65°29'54"E	161.52'
823	824	S32°22'28"E	252.49'
*824	825	S35°27'47"E	209.06'
825	713	S00°20'36"E	244.45'
713	826	S00°20'36"E	156.01'
826	827	S47°34'21"W	144.71'
827	828	S00°20'36"E	77.40'
828	829	S38°36'26"E	146.11'
829	1078	S88°32'04"E	16.92'
1078	106	S00°20'36"E	33.02'

*SEE CURVE TABLE

CURVE TABLE

FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
832	834	796.37'	644.02'	N68°24'34"E	626.61'
835	836	2215.00'	399.42'	N37°32'25"W	398.88'
824	825	1940.00'	209.16'	S35°27'47"E	209.06'



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.06, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 11/06/2014 JAY W. PANETTI
RLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 11/11/2014 CURT VAN EREM
REAL ESTATE SUPERVISOR

APPROVED FOR PRELIMINARY ADJUSTMENTS 2019

REVISED: 11/06/2014

040406_15.DWG

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.07

PART OF THE NE1/4-NE1/4 OF SECTION 30, T22N, R15E, TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

Document #: **2040566**
Date: **04-15-2015** Time: **01:48 PM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP , REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.07
AMENDMENT NO:

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

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

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

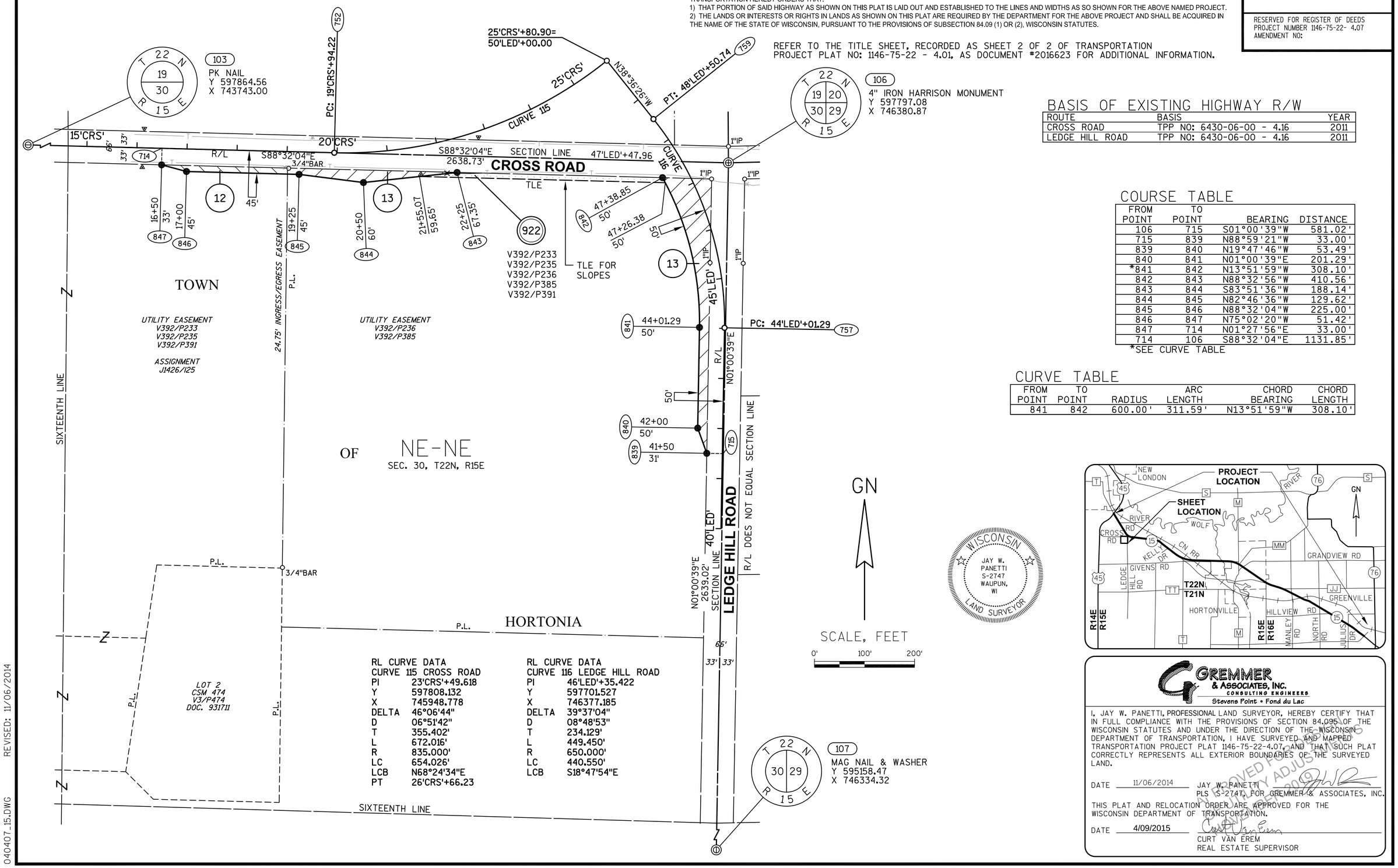
SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
12	BARBARA HAMMERBERG	FEE	0.062	0.191	0.253	0
13	KEITH M. KOSTER & BARBARA J. KOSTER	FEE, TLE	0.517	1.082	1.599	0.104

UTILITY INTERESTS REQUIRED:

922	AT&T WISCONSIN	RELEASE OF RIGHTS



BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
CROSS ROAD	TPP NO: 6430-06-00 - 4.16	2011
LEDGE HILL ROAD	TPP NO: 6430-06-00 - 4.16	2011

COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
106	715	S01°00'39"W	581.02'
715	839	N88°59'21"W	33.00'
839	840	N19°47'46"W	53.49'
840	841	N01°00'39"E	201.29'
*841	842	N13°51'59"W	308.10'
842	843	N88°32'56"W	410.56'
843	844	S83°51'36"W	188.14'
844	845	N82°46'36"W	129.62'
845	846	N88°32'04"W	225.00'
846	847	N75°02'20"W	51.42'
847	714	N01°27'56"E	33.00'
714	106	S88°32'04"E	1131.85'

*SEE CURVE TABLE

CURVE TABLE

FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
841	842	600.00'	311.59'	N13°51'59"W	308.10'

GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.07, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 11/06/2014 JAY W. PANETTI
PLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 4/09/2015 CURT VAN EREM
REAL ESTATE SUPERVISOR

APPROVED FOR PRELIMINARY ADJUSTMENTS ONLY

040407_15.DWG REVISED: 11/06/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.08 AMENDMENT NO: 1

AMENDS PARCEL 14 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.08, RECORDED AS DOCUMENT #2029757.
PART OF THE SW1/4-SW1/4 OF SECTION 20, T22N, R15E, TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

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

Document #: **2093515**
Date: **12-28-2016** Time: **01:08 PM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP, REGISTER OF DEEDS
This document has been electronically recorded and returned to:
WiDotNeRegionGreenbay

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.08
AMENDMENT NO: 1

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

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 INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
8	DAVID LATHROP & JON LATHROP	FEE, ACCESS RIGHTS	1.203	0	1.203	0
9	FAITH CHRISTIAN CHURCH	FEE, ACCESS RIGHTS	3.195	0	3.195	0
11	BRIAN J. BERT	TLE	0	0	0	0.187
14	CAREW CONCRETE SUPPLY CO., INC.	FEE, TLE	0.114	0	0.114	0.049

UTILITY INTERESTS REQUIRED:

903	CHARTER COMMUNICATIONS	RELEASE OF RIGHTS
922	AT&T WISCONSIN	RELEASE OF RIGHTS

BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15 AND CTH T	TPP NO: 6430-06-00 - 4.15, 4.16	2011
CROSS ROAD	TPP NO: 6430-06-00 - 4.16	2011

EXISTING ACCESS CONTROL: PROJECT 1146-1-22/F 07(19)

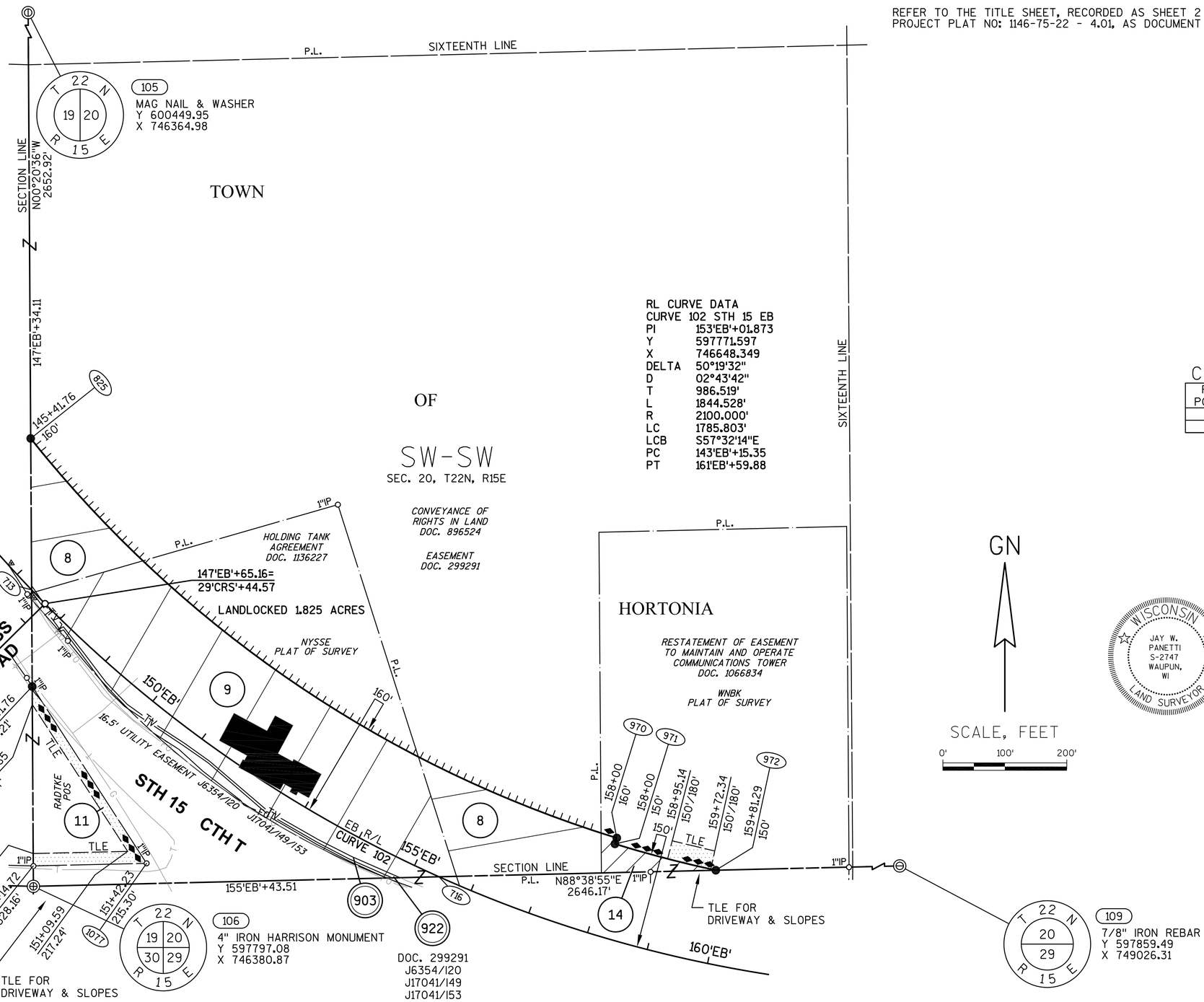
COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
106	1078	N00°20'36"W	33.02'
1078	1077	N88°43'32"E	182.92'
1077	826	N32°52'52"W	340.04'
826	713	N00°20'36"W	156.01'
713	825	N00°20'36"W	244.45'
*825	970	S55°42'59"E	1145.06'
970	971	S17°07'08"W	10.00'
*971	972	S75°21'15"E	168.28'
972	716	S88°38'55"W	447.01'
716	106	S88°38'55"W	654.96'

*SEE CURVE TABLE

CURVE TABLE

FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
825	970	1940.00'	1162.37'	S55°42'59"E	1145.06'
971	972	1950.00'	168.34'	S75°21'15"E	168.28'

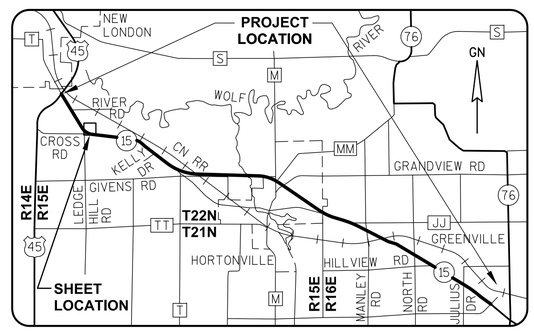


RL CURVE DATA

CURVE 102 STH 15 EB

PI	153'EB'+01.873
Y	597771.597
X	746648.349
DELTA	50°19'32"
D	02°43'42"
T	986.519'
L	1844.528'
R	2100.000'
LC	1785.803'
LCB	S57°32'14"E
PC	143'EB'+15.35
PT	161'EB'+59.88

WISCONSIN
JAY W. PANETTI
S-2747
WAUPUN, WI
LAND SURVEYOR



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.08, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 12/21/2016 JAY W PANETTI
PLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 12/23/2016 CURT VAN EREM
REAL ESTATE SUPERVISOR

APPROVED FOR SURVEY ADJUSTMENT ONLY 2009

REVISED: 12/21/2016

040408_15.DWG

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.08

PART OF THE SW1/4-SW1/4 OF SECTION 20, T22N, R15E, TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

Document #: **2029757**
Date: **11-12-2014** Time: **01:48 PM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP , REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.08
AMENDMENT NO:

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

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

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

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 INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W NEW	ACRES REQUIRED EXISTING	TOTAL	TLE ACRES TEMP.
8	DAVID LATHROP & JON LATHROP	FEE, ACCESS RIGHTS	1.203	0	1.203	0
9	FAITH CHRISTIAN CHURCH	FEE, ACCESS RIGHTS	3.195	0	3.195	0
11	BRIAN J. BERT	TLE	0	0	0	0.187
14	CAREW CONCRETE SUPPLY CO., INC.	FEE, TLE	0.157	0	0.157	0.033

UTILITY INTERESTS REQUIRED:

903	CHARTER COMMUNICATIONS	RELEASE OF RIGHTS
922	AT&T WISCONSIN	RELEASE OF RIGHTS

BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15 AND CTH T	TPP NO: 6430-06-00 - 4.15, 4.16	2011
CROSS ROAD	TPP NO: 6430-06-00 - 4.16	2011

EXISTING ACCESS CONTROL: PROJECT 1146-1-22/F 07(19)

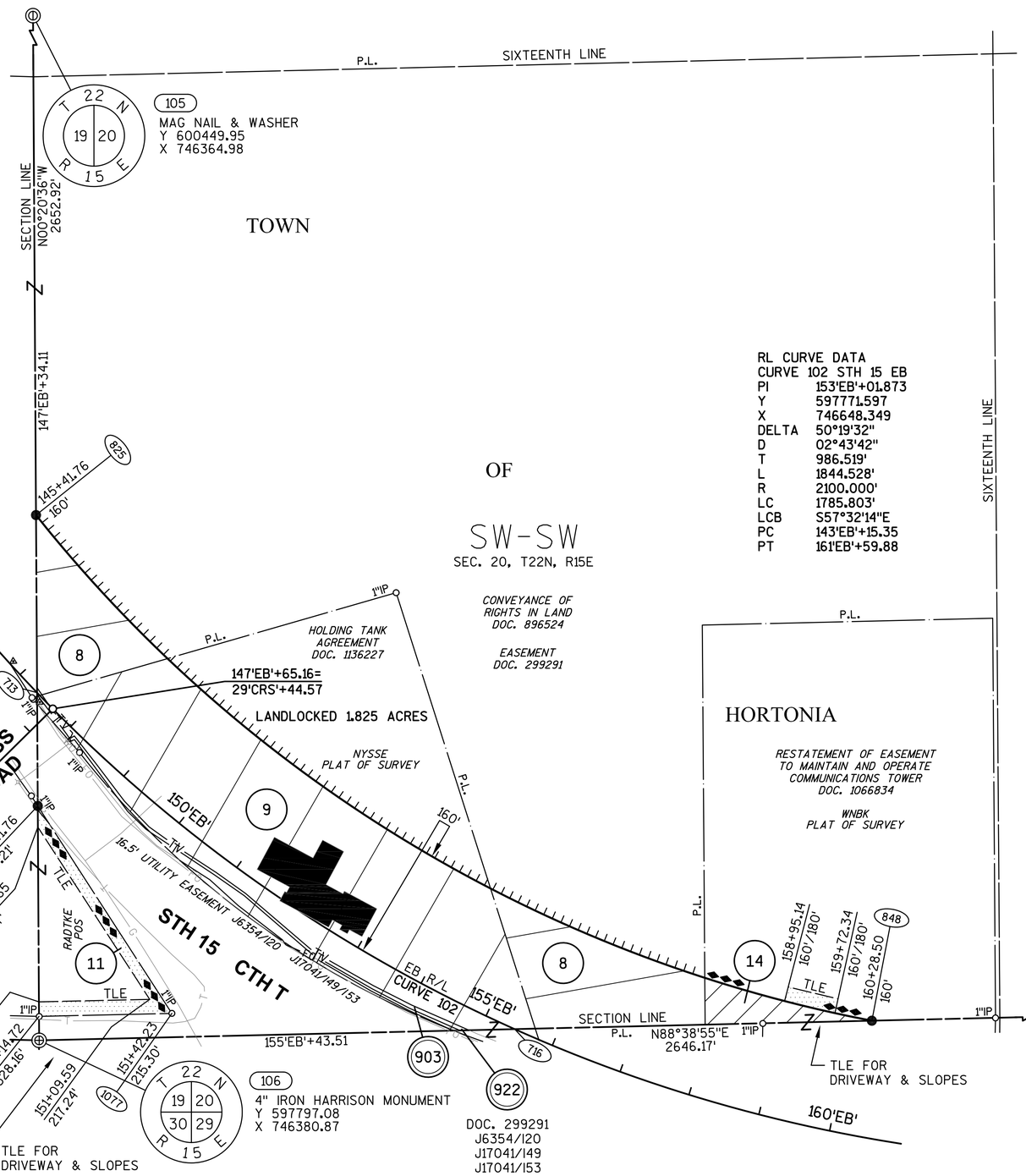
COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
106	1078	N00°20'36"W	33.02'
1078	1077	N88°43'32"E	182.92'
1077	826	N32°52'52"W	340.04'
826	713	N00°20'36"W	156.01'
713	825	N00°20'36"W	244.45'
*825	848	S58°50'01"E	1344.96'
848	716	S88°38'55"W	491.86'
716	106	S88°38'55"W	654.96'

*SEE CURVE TABLE

CURVE TABLE

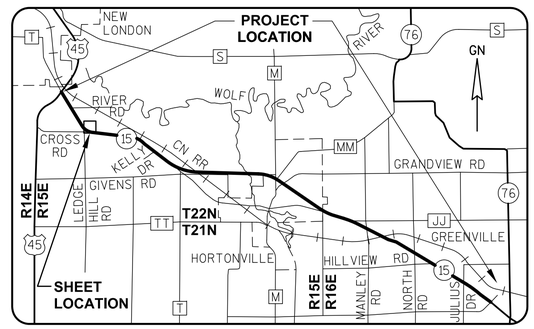
FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
825	848	1940.00'	1373.46'	S58°50'01"E	1344.96'



GN

SCALE, FEET
0' 100' 200'

WISCONSIN
JAY W. PANETTI
S-2747
WAUPUN, WI
LAND SURVEYOR



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.08, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 11/06/2014 JAY W PANETTI
RLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 11/11/2014 CURT VAN EREM
REAL ESTATE SUPERVISOR

APPROVED FOR RECORDING
SUBJECT TO ANY ADJUSTMENTS
11/11/2014

REVISED: 11/06/2014

040408_15.DWG

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.09 AMENDMENT NO: 3

AMENDS PARCEL 14 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.09, RECORDED AS DOCUMENT #2029758. PART OF LOT 1 OF CSM 6486, AND PART OF THE NW1/4-NW1/4 OF SECTION 29, T22N, R15E, TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

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

Document #: **2093516**
Date: **12-28-2016** Time: **01:09 PM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP, REGISTER OF DEEDS
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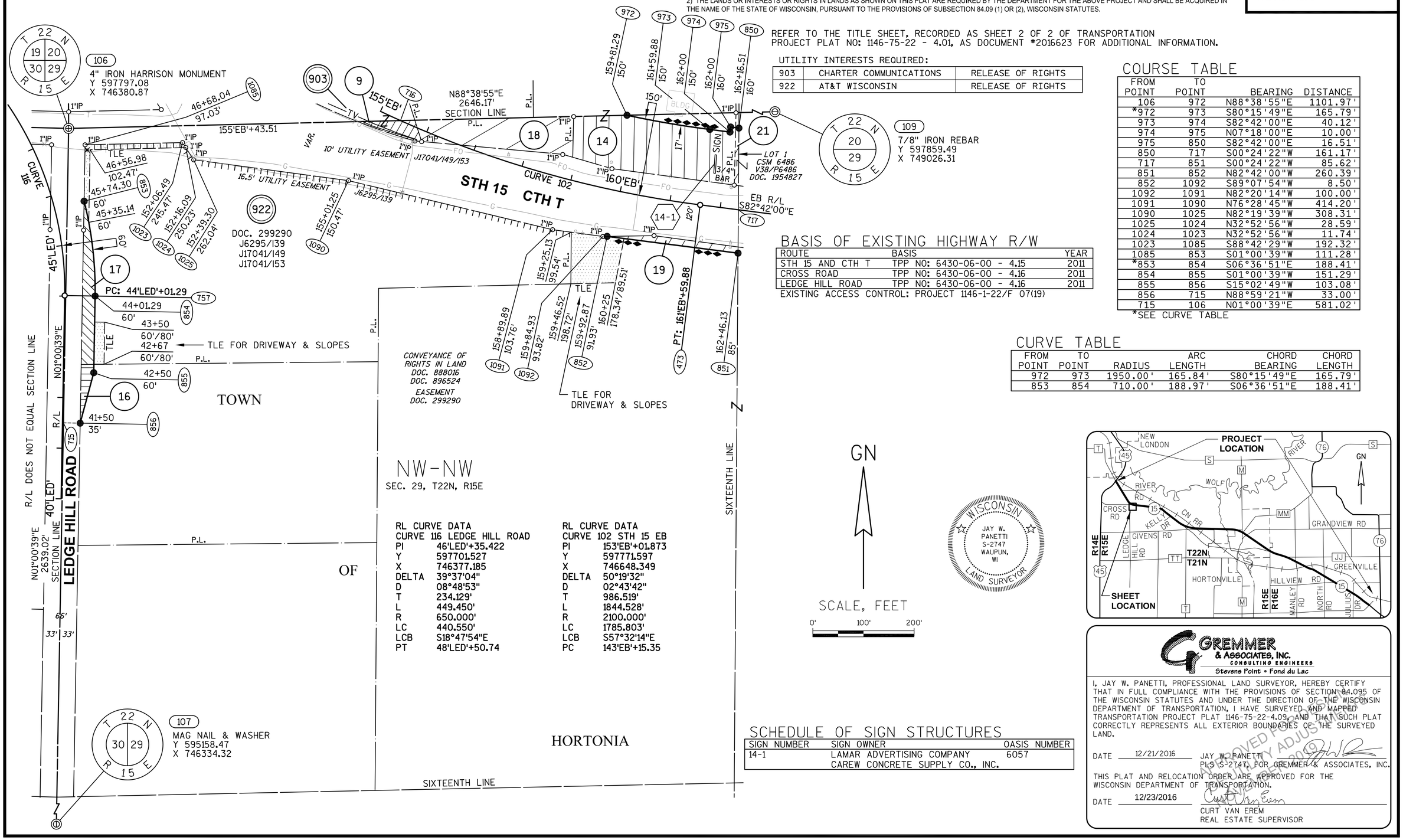
RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.09
AMENDMENT NO: 3

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 INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
9	FAITH CHRISTIAN CHURCH	FEE	0.150	0	0.150	0
14	CAREW CONCRETE SUPPLY CO., INC. LAMAR ADVERTISING COMPANY	FEE	0.750	0	0.750	0
16	MARVIN A. DRAHEIM & GLADYS M. DRAHEIM	FEE	0.038	0.087	0.125	0
17	WAYNE H. BYRUM	FEE, ACCESS RIGHTS, TLE	0.187	0.579	0.766	0.111
18	DALTON WOLFRATH, ROBERT WOLFRATH & RICHARD W. WOLFRATH	FEE	0.520	0	0.520	0
19	SULLIVAN HOMESTEAD, LLC	FEE, TLE	0.063	0	0.063	0.209
21	RYAN F. & KANDI K. MARTIN	FEE	0.019	0	0.019	0



REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

UTILITY INTERESTS REQUIRED:

903	CHARTER COMMUNICATIONS	RELEASE OF RIGHTS
922	AT&T WISCONSIN	RELEASE OF RIGHTS

COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
106	972	N88°38'55"E	1101.97'
*972	973	S80°15'49"E	165.79'
973	974	S82°42'00"E	40.12'
974	975	N07°18'00"E	10.00'
975	850	S82°42'00"E	16.51'
850	717	S00°24'22"W	161.17'
717	851	S00°24'22"W	85.62'
851	852	N82°42'00"W	260.39'
852	1092	S89°07'54"W	8.50'
1092	1091	N82°20'14"W	100.00'
1091	1090	N76°28'45"W	414.20'
1090	1025	N82°19'39"W	308.31'
1025	1024	N32°52'56"W	28.59'
1024	1023	N32°52'56"W	11.74'
1023	1085	S88°42'29"W	192.32'
1085	853	S01°00'39"W	111.28'
*853	854	S06°36'51"E	188.41'
854	855	S01°00'39"W	151.29'
855	856	S15°02'49"W	103.08'
856	715	N88°59'21"W	33.00'
715	106	N01°00'39"E	581.02'

*SEE CURVE TABLE

BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15 AND CTH T	TPP NO: 6430-06-00 - 4.15	2011
CROSS ROAD	TPP NO: 6430-06-00 - 4.16	2011
LEDGE HILL ROAD	TPP NO: 6430-06-00 - 4.16	2011

EXISTING ACCESS CONTROL: PROJECT 1146-1-22/F 07(19)

CURVE TABLE

FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
972	973	1950.00'	165.84'	S80°15'49"E	165.79'
853	854	710.00'	188.97'	S06°36'51"E	188.41'

RL CURVE DATA CURVE 116 LEDGE HILL ROAD		RL CURVE DATA CURVE 102 STH 15 EB	
PI	46'LED'+35.422	PI	153'EB'+01.873
Y	597701.527	Y	597771.597
X	746377.185	X	746648.349
DELTA	39°37'04"	DELTA	50°19'32"
D	08°48'53"	D	02°43'42"
T	234.129'	T	986.519'
L	449.450'	L	1844.528'
R	650.000'	R	2100.000'
LC	440.550'	LC	1785.803'
LCB	S18°47'54"E	LCB	S57°32'14"E
PT	48'LED'+50.74	PC	143'EB'+15.35

GN

SCALE, FEET
0' 100' 200'

WISCONSIN
JAY W. PANETTI
S-2747
WAUPUN, WI
LAND SURVEYOR

SCHEDULE OF SIGN STRUCTURES

SIGN NUMBER	SIGN OWNER	OASIS NUMBER
14-1	LAMAR ADVERTISING COMPANY CAREW CONCRETE SUPPLY CO., INC.	6057

GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.09, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 12/21/2016 JAY W. PANETTI
PLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 12/23/2016 CURT VAN EREM
REAL ESTATE SUPERVISOR

APPROVED FOR PRELIMINARY ADJUSTMENT ONLY 2016

040409_15.DWG REVISED: 12/21/2016

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.09 AMENDMENT NO: 2

ADDS PARCEL 21 AND AMENDS PARCELS 18 & 19 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.09, RECORDED AS DOCUMENT #2029758. PART OF LOT 1 OF CSM 6486, AND PART OF THE NW1/4-NW1/4 OF SECTION 29, T22N, R15E, TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1) THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
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Document #: **2071906**
Date: **05-09-2016** Time: **04:19 PM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP , REGISTER OF DEEDS
This document has been electronically recorded and returned to:
WiDotNeRegionGreenbay

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.09
AMENDMENT NO: 2

SCHEDULE OF LANDS & INTERESTS REQUIRED

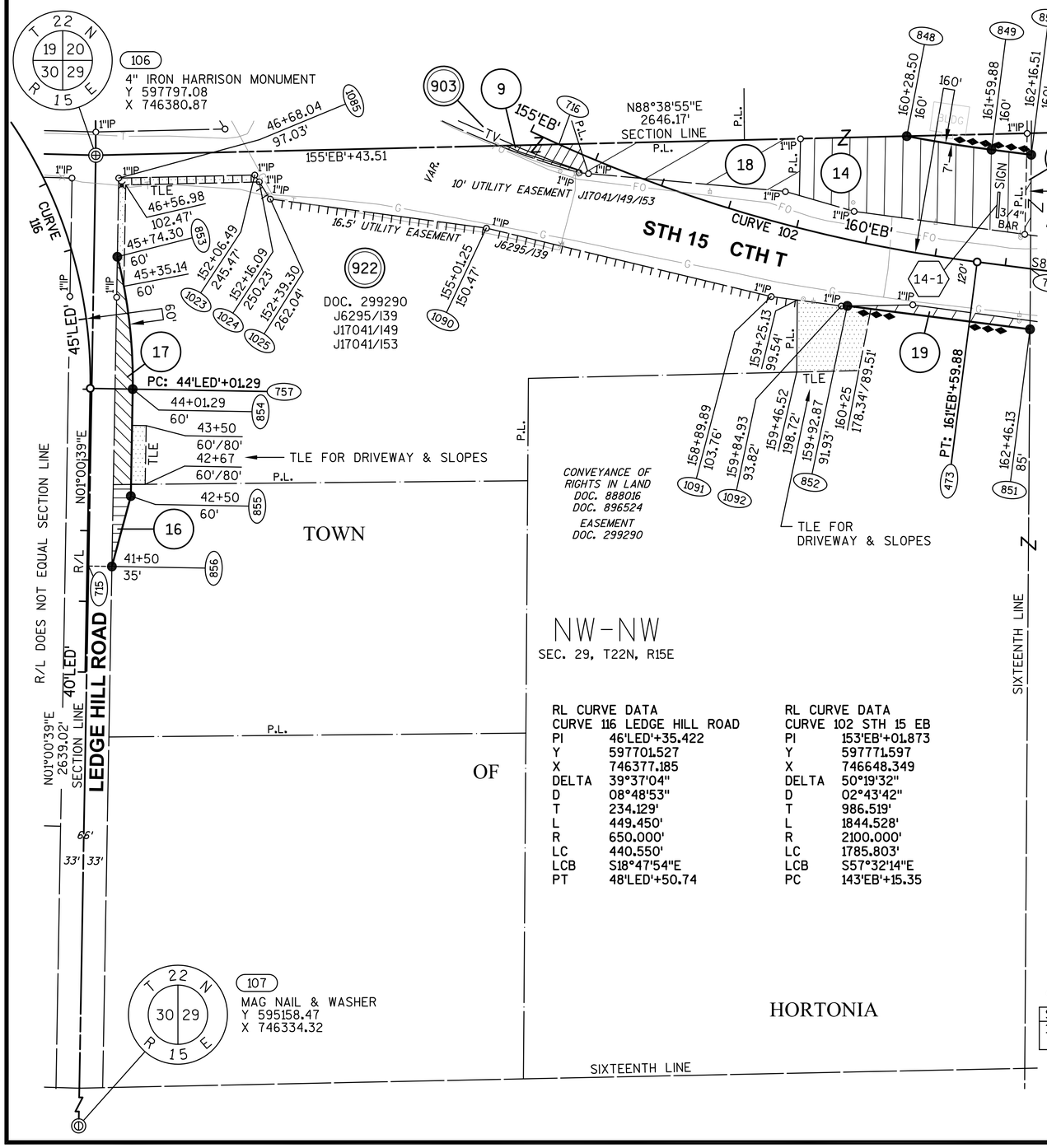
OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
9	FAITH CHRISTIAN CHURCH	FEE	0.150	0	0.150	0
14	CAREW CONCRETE SUPPLY CO., INC. LAMAR ADVERTISING COMPANY	FEE	0.792	0	0.792	0
16	MARVIN A. DRAHEIM & GLADYS M. DRAHEIM	FEE	0.038	0.087	0.125	0
17	WAYNE H. BYRUM	FEE, ACCESS RIGHTS, TLE	0.187	0.579	0.766	0.111
18	DALTON WOLFRATH, ROBERT WOLFRATH & RICHARD W. WOLFRATH	FEE	0.520	0	0.520	0
19	SULLIVAN HOMESTEAD, LLC	FEE, TLE	0.063	0	0.063	0.209
21	RYAN F. & KANDI K. MARTIN	FEE	0.019	0	0.019	0

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

UTILITY INTERESTS REQUIRED:

903	CHARTER COMMUNICATIONS	RELEASE OF RIGHTS
922	AT&T WISCONSIN	RELEASE OF RIGHTS



RL CURVE DATA
CURVE 116 LEDGE HILL ROAD

PI	46'LED'+35.422
Y	597701.527
X	746377.185
DELTA	39°37'04"
D	08°48'53"
T	234.129'
L	449.450'
R	650.000'
LC	440.550'
LCB	S18°47'54"E
PT	48'LED'+50.74

RL CURVE DATA
CURVE 102 STH 15 EB

PI	153'EB'+01.873
Y	597771.597
X	746648.349
DELTA	50°19'32"
D	02°43'42"
T	986.519'
L	1844.528'
R	2100.000'
LC	1785.803'
LCB	S57°32'14"E
PC	143'EB'+15.35

BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15 AND CTH T	TPP NO: 6430-06-00 - 4.15	2011
CROSS ROAD	TPP NO: 6430-06-00 - 4.16	2011
LEDGE HILL ROAD	TPP NO: 6430-06-00 - 4.16	2011

EXISTING ACCESS CONTROL: PROJECT 1146-1-22/F 07(19)

COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
106	848	N88°38'55"E	1146.82'
*848	849	S80°54'28"E	121.35'
849	850	S82°42'00"E	56.63'
850	717	S00°24'22"W	161.17'
717	851	S00°24'22"W	85.62'
851	852	N82°42'00"W	260.39'
852	1092	S89°07'54"W	8.50'
1092	1091	N82°20'14"W	100.00'
1091	1090	N76°28'45"W	414.20'
1090	1025	N82°19'39"W	308.31'
1025	1024	N32°52'56"W	28.59'
1024	1023	N32°52'56"W	11.74'
1023	1085	S88°42'29"W	192.32'
1085	853	S01°00'39"W	111.28'
*853	854	S06°36'51"E	188.41'
854	855	S01°00'39"W	151.29'
855	856	S15°02'49"W	103.08'
856	715	N88°59'21"W	33.00'
715	106	N01°00'39"E	581.02'

*SEE CURVE TABLE

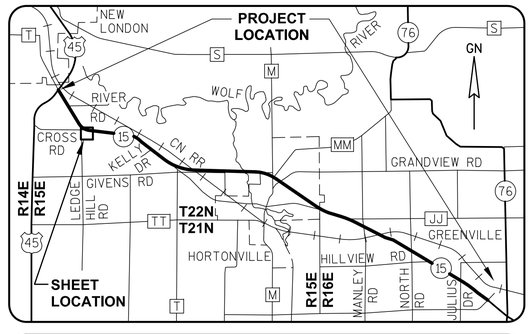
CURVE TABLE

FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
848	849	1940.00'	121.37'	S80°54'28"E	121.35'
853	854	710.00'	188.97'	S06°36'51"E	188.41'

GN

SCALE, FEET
0' 100' 200'

WISCONSIN
JAY W. PANETTI S-2747 WAUPUN, WI
LAND SURVEYOR



SCHEDULE OF SIGN STRUCTURES

SIGN NUMBER	SIGN OWNER	OASIS NUMBER
14-1	LAMAR ADVERTISING COMPANY CAREW CONCRETE SUPPLY CO., INC.	6057

GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.09, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 4/28/2016 JAY W. PANETTI
PLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 5/08/2016 CURT VAN EREM
REAL ESTATE SUPERVISOR

APPROVED FOR PUBLICITY ADJUSTMENT ONLY

040409_15.DWG REVISED: 4/28/2016

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.09
AMENDMENT NO: 1

AMENDS PARCEL 9 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.09, RECORDED AS DOCUMENT #2029758.
PART OF THE NW1/4-NW1/4 OF SECTION 29, T22N, R15E, TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

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2) THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

Document #: **2056870**
Date: **10-14-2015** Time: **03:57 PM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP , REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.09
AMENDMENT NO: 1

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 INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
9	FAITH CHRISTIAN CHURCH	FEE	0.150	0	0.150	0
14	CAREW CONCRETE SUPPLY CO., INC. LAMAR ADVERTISING COMPANY	FEE	0.792	0	0.792	0
16	MARVIN A. DRAHEIM & GLADYS M. DRAHEIM	FEE	0.038	0.087	0.125	0
17	WAYNE H. BYRUM	FEE, ACCESS RIGHTS, TLE	0.187	0.579	0.766	0.111
18	DALTON WOLFRATH, ROBERT WOLFRATH & RICHARD W. WOLFRATH	FEE	0.415	0	0.415	0
19	SULLIVAN HOMESTEAD, LLC	FEE, TLE	0.082	0	0.082	0.209

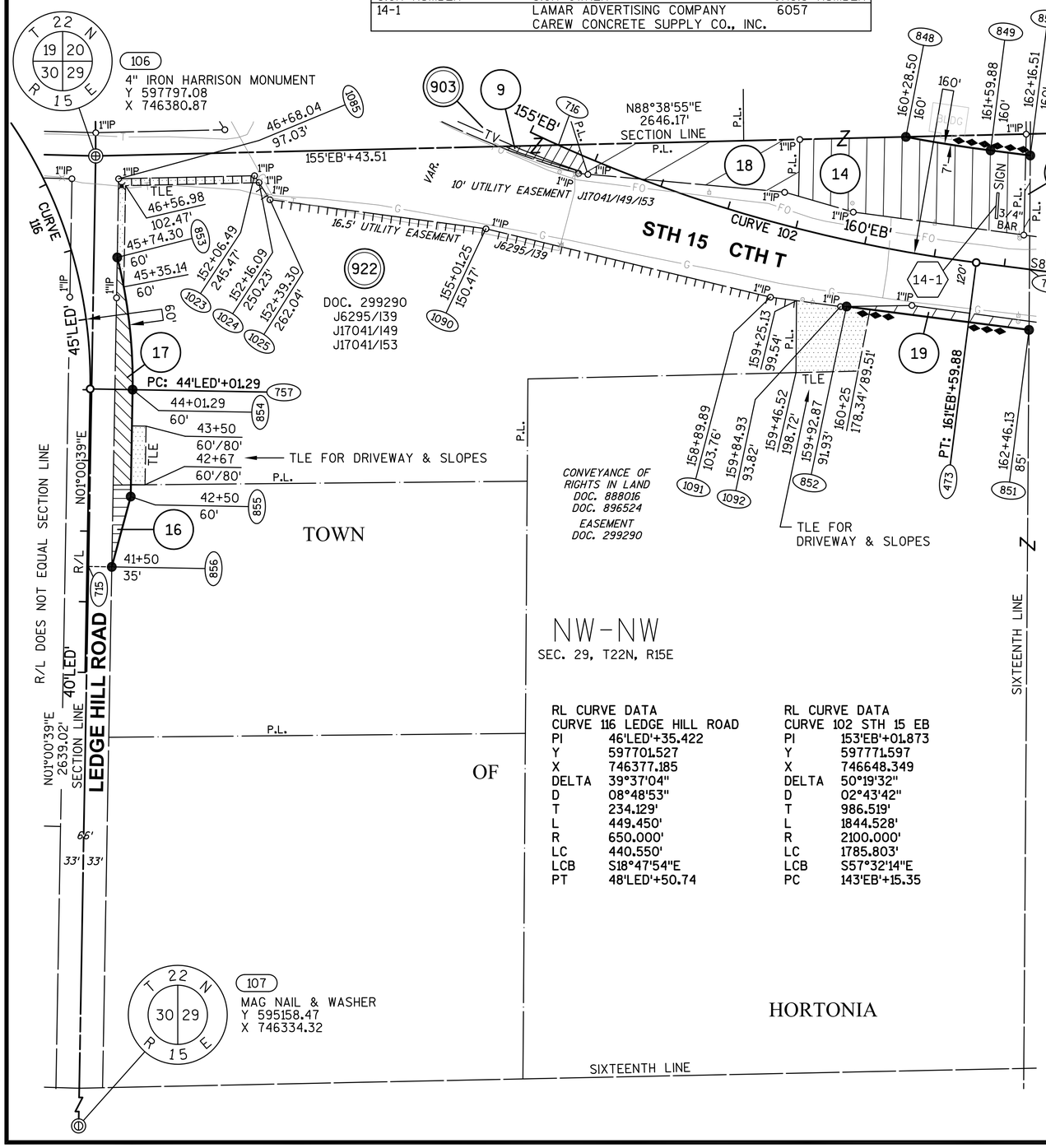
SCHEDULE OF SIGN STRUCTURES

SIGN NUMBER	SIGN OWNER	OASIS NUMBER
14-1	LAMAR ADVERTISING COMPANY CAREW CONCRETE SUPPLY CO., INC.	6057

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

UTILITY INTERESTS REQUIRED:

903	CHARTER COMMUNICATIONS	RELEASE OF RIGHTS
922	AT&T WISCONSIN	RELEASE OF RIGHTS



COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
106	848	N88°38'55"E	1146.82'
*848	849	S80°54'28"E	121.35'
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856	715	N88°59'21"W	33.00'
715	106	N01°00'39"E	581.02'

*SEE CURVE TABLE

BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15 AND CTH T	TPP NO: 6430-06-00 - 4.15	2011
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LEDGE HILL ROAD	TPP NO: 6430-06-00 - 4.16	2011

EXISTING ACCESS CONTROL: PROJECT 1146-1-22/F 07(19)

CURVE TABLE

FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
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853	854	710.00'	188.97'	S06°36'51"E	188.41'

RL CURVE DATA CURVE 116 LEDGE HILL ROAD		RL CURVE DATA CURVE 102 STH 15 EB	
PI	46'LED'+35.422	PI	153'EB'+01.873
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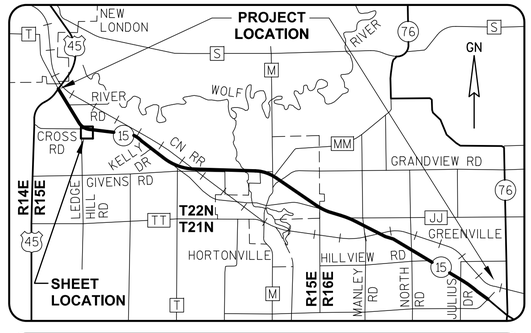
GN

SCALE, FEET
0' 100' 200'

WISCONSIN
JAY W. PANETTI S-2747 WAUPUN, WI
LAND SURVEYOR



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.09, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 10/13/2015 JAY W. PANETTI
PLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 10/13/2015 CURT VAN EREM
REAL ESTATE SUPERVISOR

APPROVED FOR PRELIMINARY ADJUSTMENT ONLY SEP 2015

040409_15.DWG REVISED: 10/13/2015

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.09

PART OF THE NW1/4-NW1/4 OF SECTION 29, T22N, R15E, TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

Document #: **2029758**
Date: **11-12-2014** Time: **01:48 PM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP , REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.09
AMENDMENT NO:

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

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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 INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
9	FAITH CHRISTIAN CHURCH	FEE	0.061	0	0.061	0
14	CAREW CONCRETE SUPPLY CO., INC. LAMAR ADVERTISING COMPANY	FEE	0.792	0	0.792	0
16	MARVIN A. DRAHEIM & GLADYS M. DRAHEIM	FEE	0.038	0.087	0.125	0
17	WAYNE H. BYRUM	FEE, ACCESS RIGHTS, TLE	0.187	0.579	0.766	0.111
18	DALTON WOLFRATH, ROBERT WOLFRATH & RICHARD W. WOLFRATH	FEE	0.415	0	0.415	0
19	SULLIVAN HOMESTEAD, LLC	FEE, TLE	0.082	0	0.082	0.209

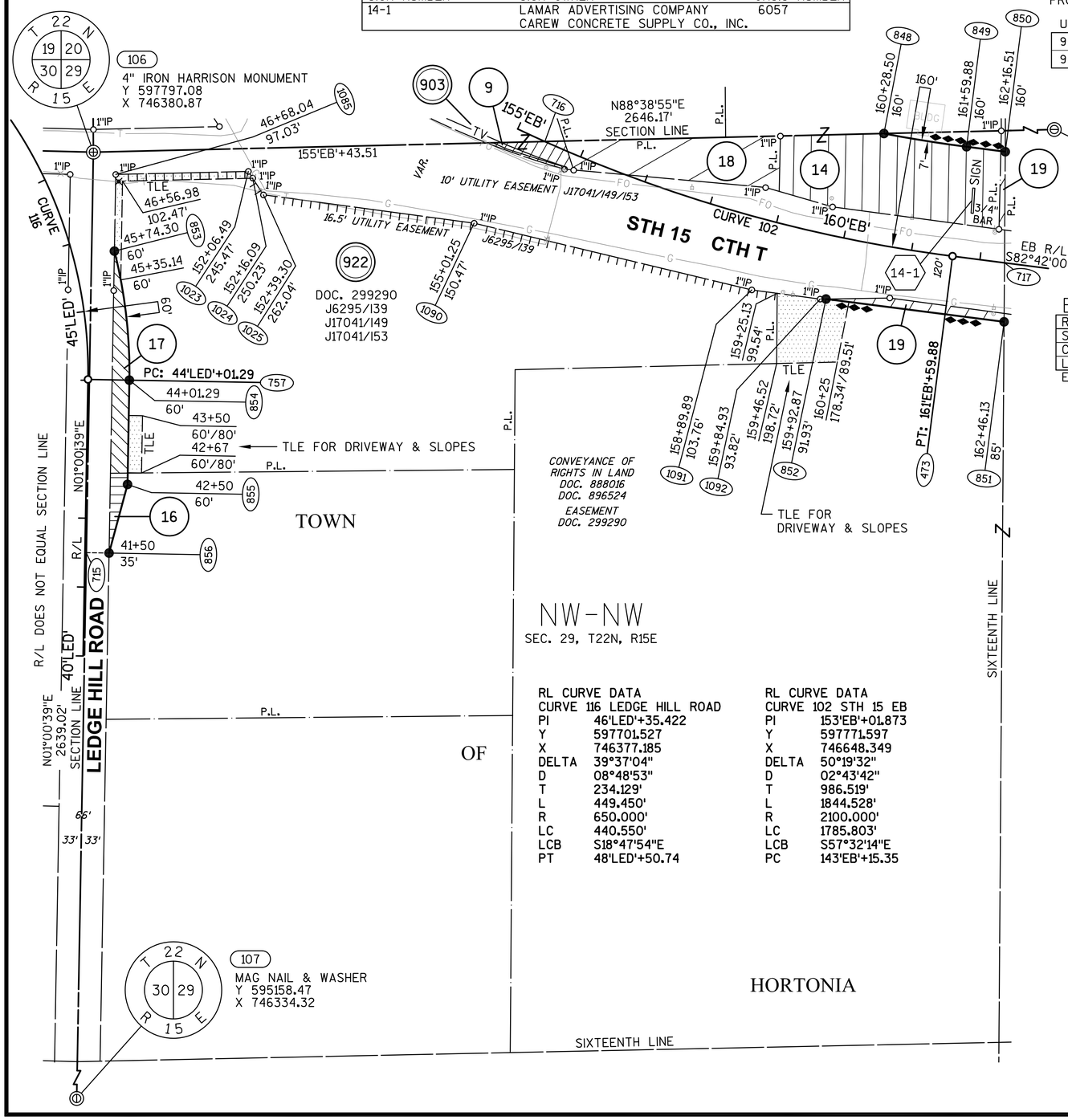
SCHEDULE OF SIGN STRUCTURES

SIGN NUMBER	SIGN OWNER	OASIS NUMBER
14-1	LAMAR ADVERTISING COMPANY CAREW CONCRETE SUPPLY CO., INC.	6057

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

UTILITY INTERESTS REQUIRED:

903	CHARTER COMMUNICATIONS	RELEASE OF RIGHTS
922	AT&T WISCONSIN	RELEASE OF RIGHTS



BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15 AND CTH T	TPP NO: 6430-06-00 - 4.15	2011
CROSS ROAD	TPP NO: 6430-06-00 - 4.16	2011
LEDGE HILL ROAD	TPP NO: 6430-06-00 - 4.16	2011

EXISTING ACCESS CONTROL: PROJECT 1146-1-22/F 07(19)

COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
106	848	N88°38'55"E	1146.82'
*848	849	S80°54'28"E	121.35'
849	850	S82°42'00"E	56.63'
850	717	S00°24'22"W	161.17'
717	851	S00°24'22"W	85.62'
851	852	N82°42'00"W	260.39'
852	1092	S89°07'54"W	8.50'
1092	1091	N82°20'14"W	100.00'
1091	1090	N76°28'45"W	414.20'
1090	1025	N82°19'39"W	308.31'
1025	1024	N32°52'56"W	28.59'
1024	1023	N32°52'56"W	11.74'
1023	1085	S88°42'29"W	192.32'
1085	853	S01°00'39"W	111.28'
*853	854	S06°36'51"E	188.41'
854	855	S01°00'39"W	151.29'
855	856	S15°02'49"W	103.08'
856	715	N88°59'21"W	33.00'
715	106	N01°00'39"E	581.02'

*SEE CURVE TABLE

CURVE TABLE

FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
848	849	1940.00'	121.37'	S80°54'28"E	121.35'
853	854	710.00'	188.97'	S06°36'51"E	188.41'

RL CURVE DATA
CURVE 116 LEDGE HILL ROAD

PI	46'LED'+35.422
Y	597701.527
X	746377.185
DELTA	39°37'04"
D	08°48'53"
T	234.129'
L	449.450'
R	650.000'
LC	440.550'
LCB	S18°47'54"E
PT	48'LED'+50.74

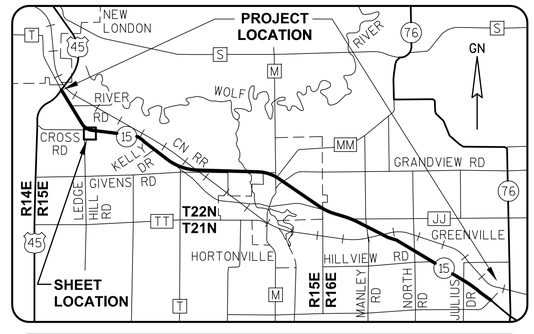
RL CURVE DATA
CURVE 102 STH 15 EB

PI	153'EB'+01.873
Y	597771.597
X	746648.349
DELTA	50°19'32"
D	02°43'42"
T	986.519'
L	1844.528'
R	2100.000'
LC	1785.803'
LCB	S57°32'14"E
PC	143'EB'+15.35

GN

SCALE, FEET
0' 100' 200'

WISCONSIN
JAY W. PANETTI S-2747 WAUPUN, WI
LAND SURVEYOR



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.09, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 11/06/2014
JAY W. PANETTI
RLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 11/11/2014
CURT VAN EREM
REAL ESTATE SUPERVISOR

APPROVED FOR PUBLIC RECORDS
JAY W. PANETTI 2016

040409_15.DWG REVISED: 11/06/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.10 AMENDMENT NO: 1

ADDS PARCEL 24 AND AMENDS PARCEL 23 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.10, RECORDED AS DOCUMENT #2040567.
PART OF LOTS 1 AND 2 OF CSM 6486, PART OF LOT 1 OF CSM 7073, AND PART OF THE NE1/4-NW1/4 OF SECTION 29, T22N, R15E, ALL IN THE TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

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

Document #: **2065978**
Date: **02-18-2016** Time: **02:44 PM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP , REGISTER OF DEEDS
This document has been electronically recorded and returned to:
WiDotNeRegionGreenbay

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.10
AMENDMENT NO: 1

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 INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
19	SULLIVAN HOMESTEAD, LLC	FEE	0.237	0	0.237	0
21	EDWARD J. SULLIVAN	FEE	1.805	0	1.805	0
22	JOAN S. SUSZKO	FEE, ACCESS RIGHTS, TLE	1.975	0	1.975	0.017
23	GARY L. PANKOW	FEE	0.216	0	0.216	0
24	CHAD A. KARPF	FEE	0.024	0	0.024	0

UTILITY INTERESTS REQUIRED:

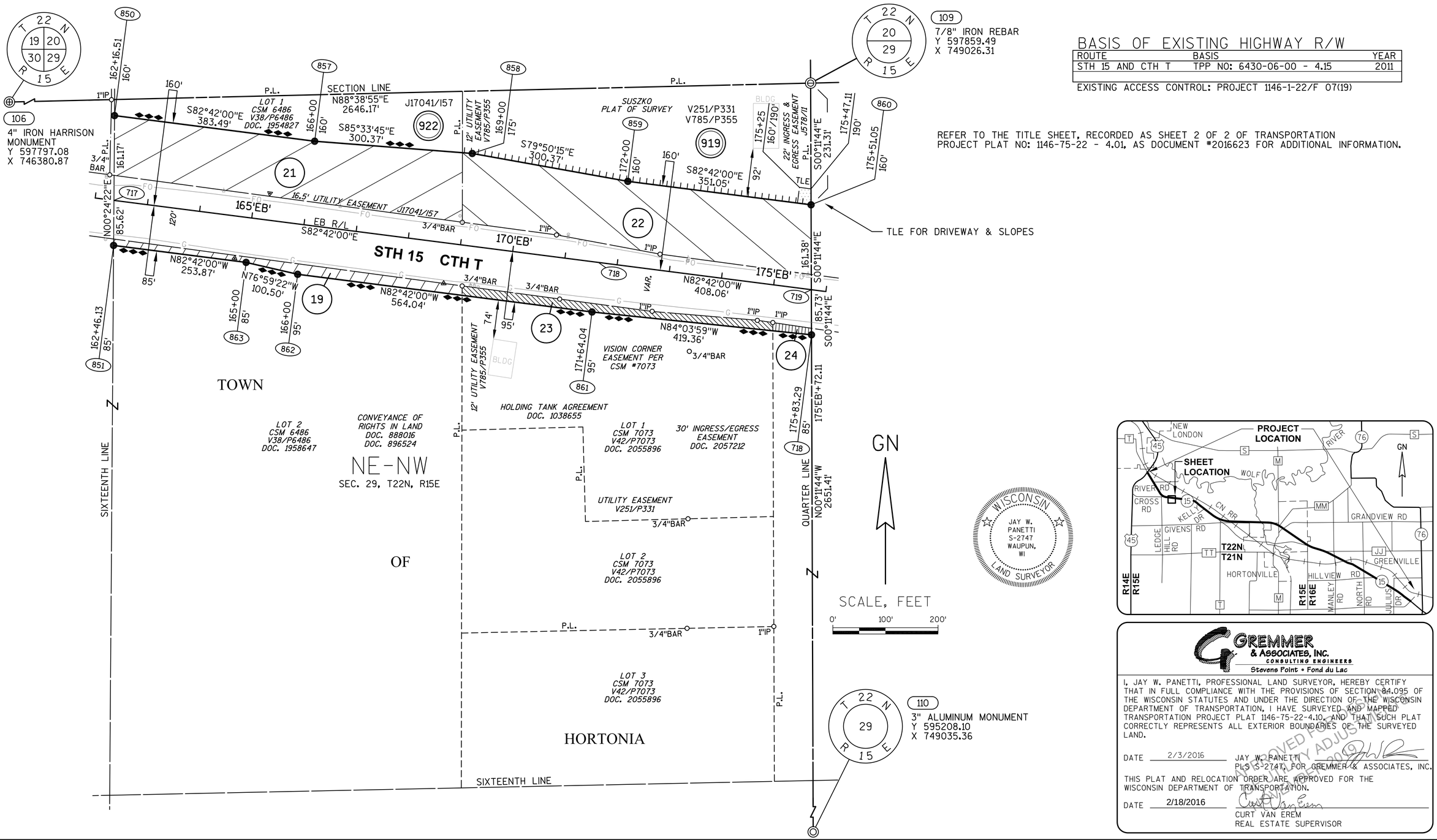
919	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
922	AT&T WISCONSIN	RELEASE OF RIGHTS

BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15 AND CTH T	TPP NO: 6430-06-00 - 4.15	2011

EXISTING ACCESS CONTROL: PROJECT 1146-1-22/F 07(19)

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT *2016623 FOR ADDITIONAL INFORMATION.



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.10, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 2/3/2016 JAY W. PANETTI
PLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 2/18/2016 CURT VAN EREM
REAL ESTATE SUPERVISOR

APPROVED FOR PRELIMINARY ADJUSTMENT ONLY 2019

REVISED: 2/3/2016
040410_15.DWG
APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.10

PART OF LOTS 1 AND 2 OF CSM 6486, PART OF LOT 1 OF CSM 3046, AND PART OF THE NE1/4-NW1/4 OF SECTION 29, T22N, R15E,ALL IN THE TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

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

Document #: **2040567**
Date: **04-15-2015** Time: **01:48 PM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP , REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.10
AMENDMENT NO:

SCHEDULE OF LANDS & INTERESTS REQUIRED

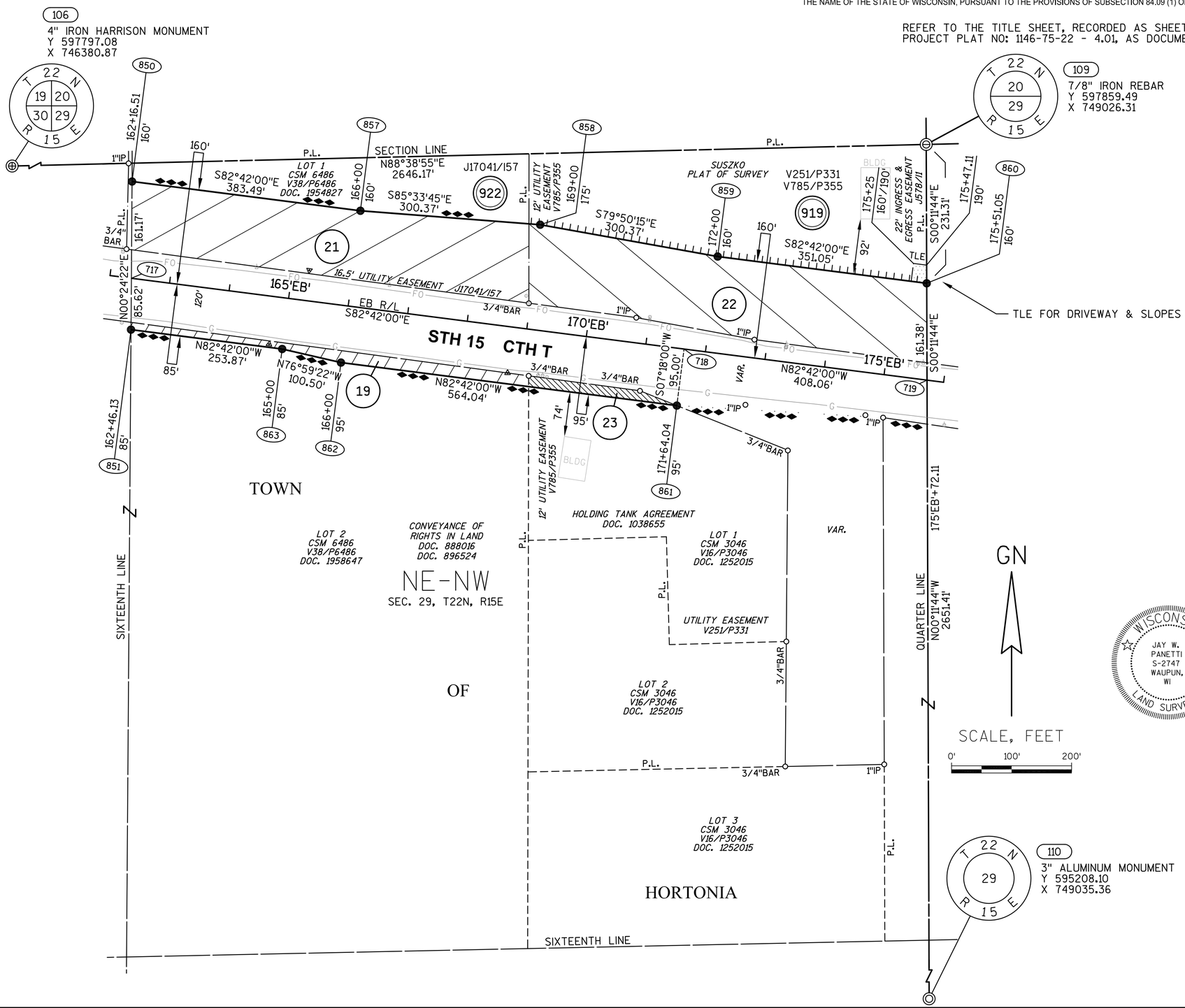
OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
19	SULLIVAN HOMESTEAD, LLC	FEE	0.237	0	0.237	0
21	RYAN F. & KANDI K. MARTIN	FEE	1.805	0	1.805	0
22	JOAN S. SUSZKO	FEE, ACCESS RIGHTS, TLE	1.975	0	1.975	0.017
23	GARY L. PANKOW	FEE	0.086	0	0.086	0

AFFIDAVIT DOC NO 2070215

UTILITY INTERESTS REQUIRED:

919	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
922	AT&T WISCONSIN	RELEASE OF RIGHTS

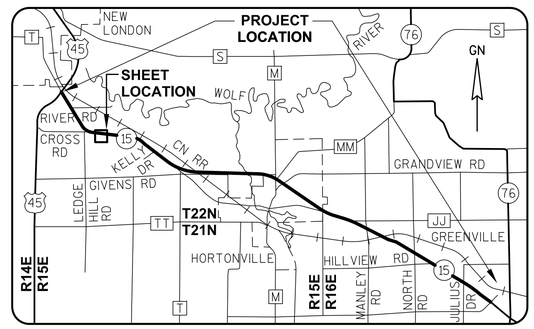


BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15 AND CTH T	TPP NO: 6430-06-00 - 4.15	2011

EXISTING ACCESS CONTROL: PROJECT 1146-1-22/F 07(19)

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.10, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 11/06/2014 JAY W. PANETTI
PLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 4/09/2015 CURT VAN EREM
REAL ESTATE SUPERVISOR

WISCONSIN JAY W. PANETTI S-2747 WAUPUN, WI LAND SURVEYOR

APPROVED FOR PRELIMINARY ADJUSTMENTS ONLY

040410_15.DWG REVISED: 11/06/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.11

PART OF THE NW1/4-NE1/4 OF SECTION 29, T22N, R15E, TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

Document #: **2040568**
Date: **04-15-2015** Time: **01:48 PM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP , REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.11
AMENDMENT NO:

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

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

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

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 INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
24	CHAD A. KARPF	FEE, ACCESS RIGHTS, TLE	2.041	0	2.041	0.018
26	KELLY J. LAND WOLF RIVER TRIPS	FEE, ACCESS RIGHTS	2.104	0	2.104	

UTILITY INTERESTS REQUIRED:

922	AT&T WISCONSIN	RELEASE OF RIGHTS

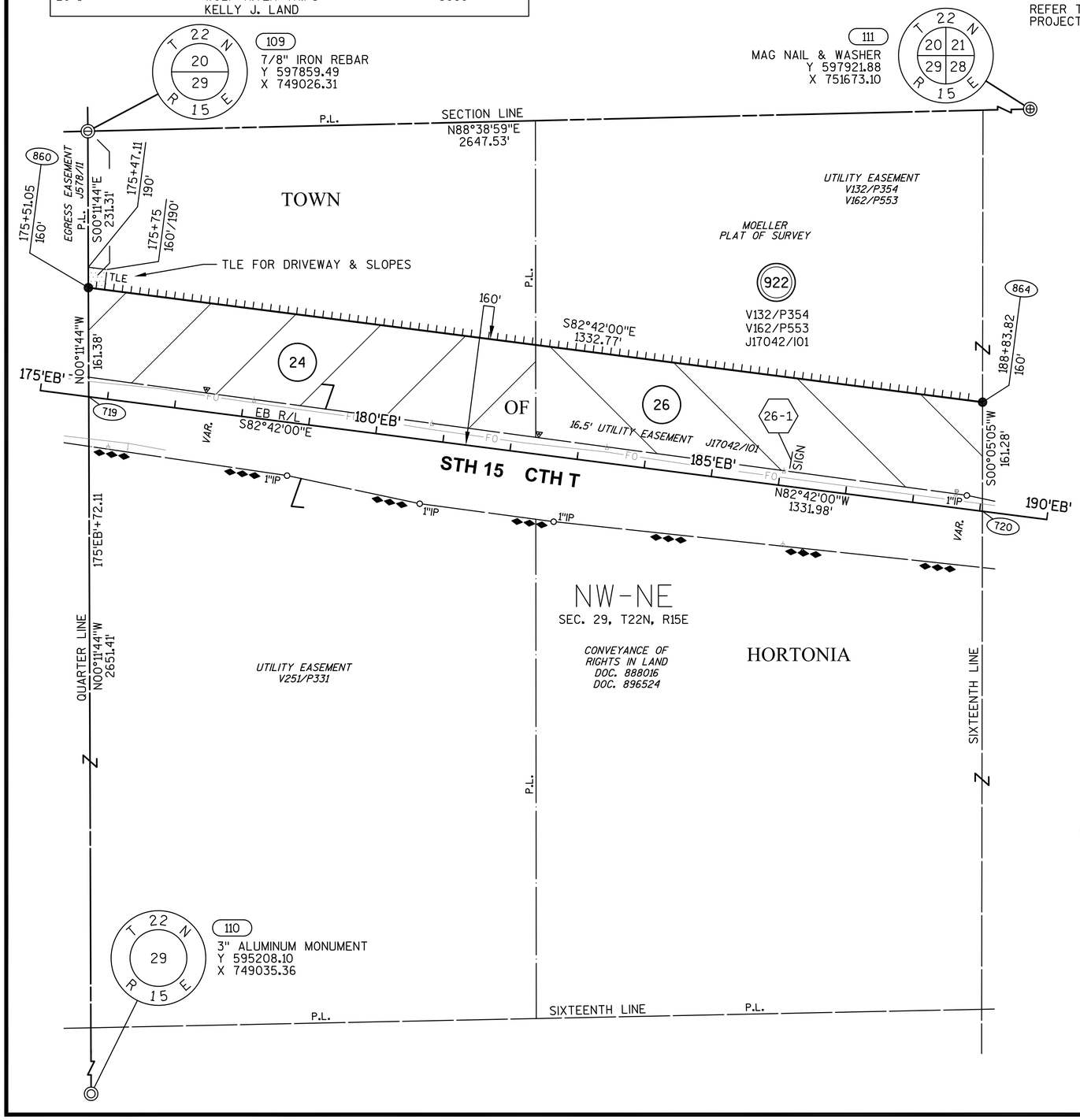
SCHEDULE OF SIGN STRUCTURES

SIGN NUMBER	SIGN OWNER	OASIS NUMBER
26-1	WOLF RIVER TRIPS KELLY J. LAND	3989

BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15 AND CTH T	TPP NO: 6430-06-00 - 4.14, 4.15	2011

EXISTING ACCESS CONTROL: PROJECT 1146-1-22/F 07(19)



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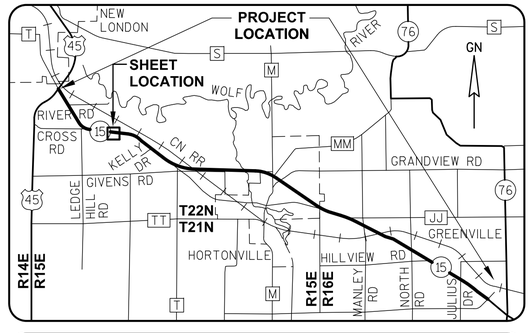
SCALE, FEET
0' 100' 200'

WISCONSIN
JAY W. PANETTI
S-2747
WAUPUN, WI
LAND SURVEYOR



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.11, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 11/06/2014 JAY W. PANETTI
PLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 4/09/2015 CURT VAN EREM
REAL ESTATE SUPERVISOR

APPROVED PENDING FINAL SURVEY ADJUSTMENTS

REVISED: 11/06/2014

040411.15.DWG

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.12
AMENDMENT NO: 1

AMENDS PARCELS 26, 28 AND 31 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.12, RECORDED AS DOCUMENT #2040569.
PART OF THE NE1/4-NE1/4 OF SECTION 29, T22N, R15E, TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

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

Document #: **2087237**
Date: **10-17-2016** Time: **02:25 PM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP, REGISTER OF DEEDS
This document has been electronically recorded and returned to:
WiDotNeRegionGreenbay

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.12
AMENDMENT NO: 1

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 INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
26	KELLY J. LAND	FEE, ACCESS RIGHTS, TLE	1.126	0	1.126	0.671
27	MICHAEL BUNNELL	FEE, TLE	0.001	0	0.001	0.019
28	PAUL G. BERNEGGER & TAMMY L. BERNEGGER BROWN'S CHEESE & LIQUOR	FEE, ACCESS RIGHTS, TLE	1.832	0	1.832	0.215
29	RANDAL L. HEDTKE	FEE, TLE	0.402	0	0.402	0.017
31	PAUL G. BERNEGGER	FEE, ACCESS RIGHTS, TLE	3.246	0	3.246	0.229

UTILITY INTERESTS REQUIRED:

919	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
922	AT&T WISCONSIN	RELEASE OF RIGHTS

SCHEDULE OF SIGN STRUCTURES

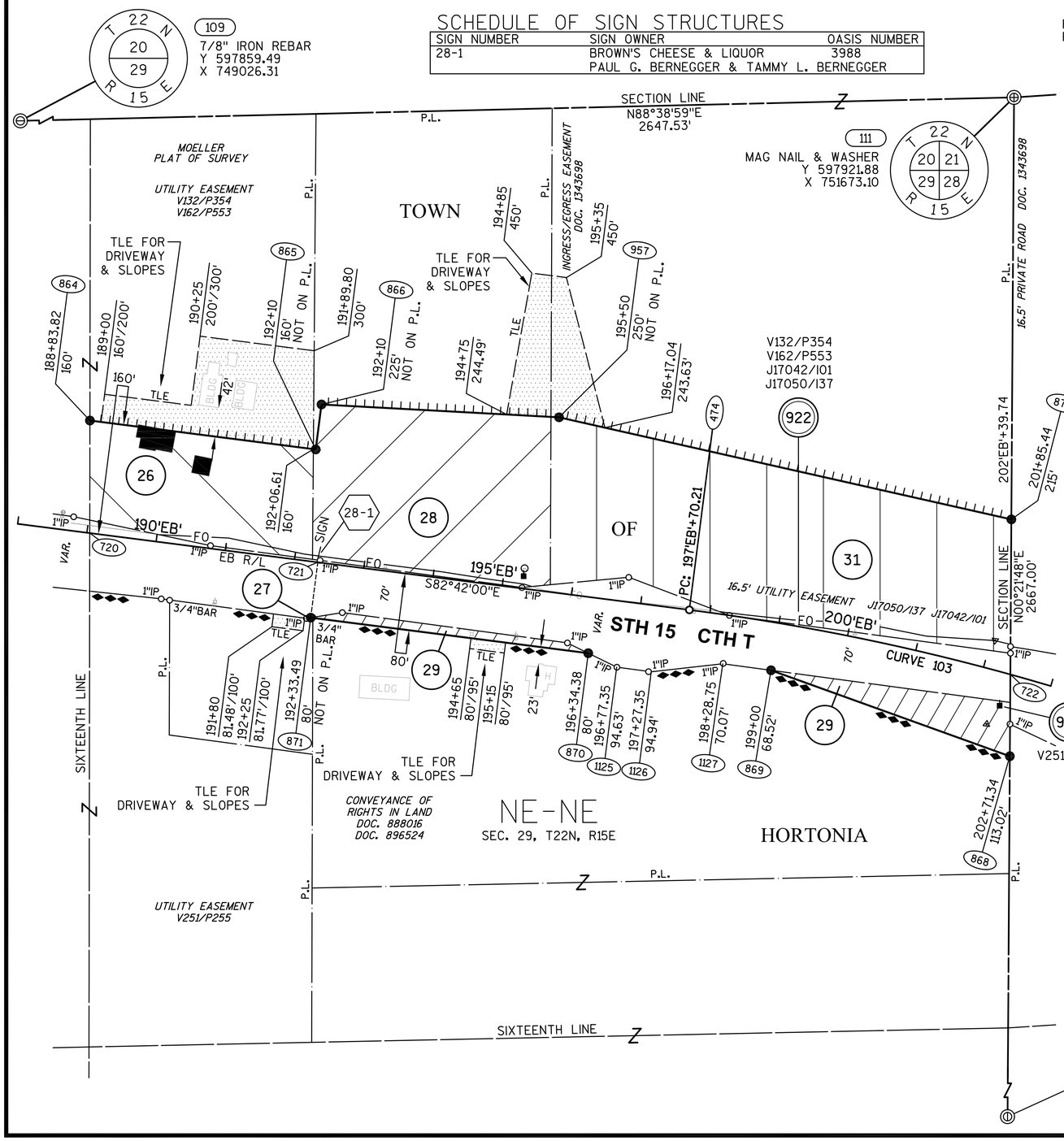
SIGN NUMBER	SIGN OWNER	OASIS NUMBER
28-1	BROWN'S CHEESE & LIQUOR PAUL G. BERNEGGER & TAMMY L. BERNEGGER	3988

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15 AND CTH T	TPP NO: 6430-06-00 - 4.14	2011

EXISTING ACCESS CONTROL: PROJECT 1146-1-22/F 07(19)

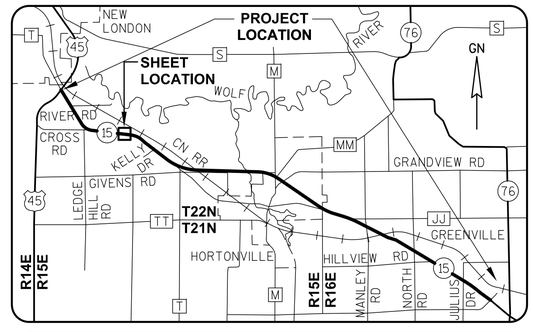


RL CURVE DATA
CURVE 103 STH 15 EB

PI	208'EB'+40.663
Y	597051.484
X	752269.713
DELTA	35°56'39"
D	01°44'10"
T	1070.456'
L	2070.232'
R	3300.000'
LC	2036.451'
LCB	S64°43'41"E
PT	218'EB'+40.44

COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
111	872	S00°21'48"W	604.74'
872	722	S00°21'48"W	222.18'
722	868	S00°21'48"W	117.21'
868	869	N70°12'20"W	363.66'
869	1127	N82°20'11"W	69.77'
1127	1126	S83°37'35"W	103.08'
1126	1125	N82°20'14"W	50.00'
1125	870	N63°54'11"W	45.40'
870	871	N82°42'00"W	400.88'
871	721	N07°18'00"E	80.00'
721	720	N82°42'00"W	329.41'
720	864	N00°05'05"E	161.28'
864	865	S82°42'00"E	326.18'
865	866	N07°18'00"E	65.00'
866	957	S86°54'19"E	340.92'
957	872	S77°16'35"E	664.30'



WISCONSIN
JAY W. PANETTI S-2747 WAUPUN, WI
LAND SURVEYOR

GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.12, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 9/28/2016 JAY W. PANETTI
PLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 10/10/2016 CURT VAN EREM
REAL ESTATE SUPERVISOR

APPROVED FOR PROPERTY ADJUSTMENTS ONLY

040412_15.DWG REVISED: 9/28/2016

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.12

PART OF THE NE1/4-NE1/4 OF SECTION 29, T22N, R15E, TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

Document #: **2040569**
Date: **04-15-2015** Time: **01:49 PM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP , REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.12
AMENDMENT NO:

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

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

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

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 INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
26	KELLY J. LAND BROWN'S CHEESE & LIQUOR	FEE, ACCESS RIGHTS, TLE	1.168	0	1.168	0.703
27	MICHAEL BUNNELL	FEE, TLE	0.001	0	0.001	0.019
28	PAUL G. BERNEGGER & TAMMY L. BERNEGGER	FEE, ACCESS RIGHTS, TLE	1.790	0	1.790	0.217
29	RANDAL L. HEDTKE	FEE, TLE	0.402	0	0.402	0.017
31	PAUL G. BERNEGGER	FEE, ACCESS RIGHTS, TLE	3.691	0	3.691	0.225

UTILITY INTERESTS REQUIRED:

919	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
922	AT&T WISCONSIN	RELEASE OF RIGHTS

SCHEDULE OF SIGN STRUCTURES

SIGN NUMBER	SIGN OWNER	OASIS NUMBER
26-2	BROWN'S CHEESE & LIQUOR KELLY J. LAND	3988

BASIS OF EXISTING HIGHWAY R/W

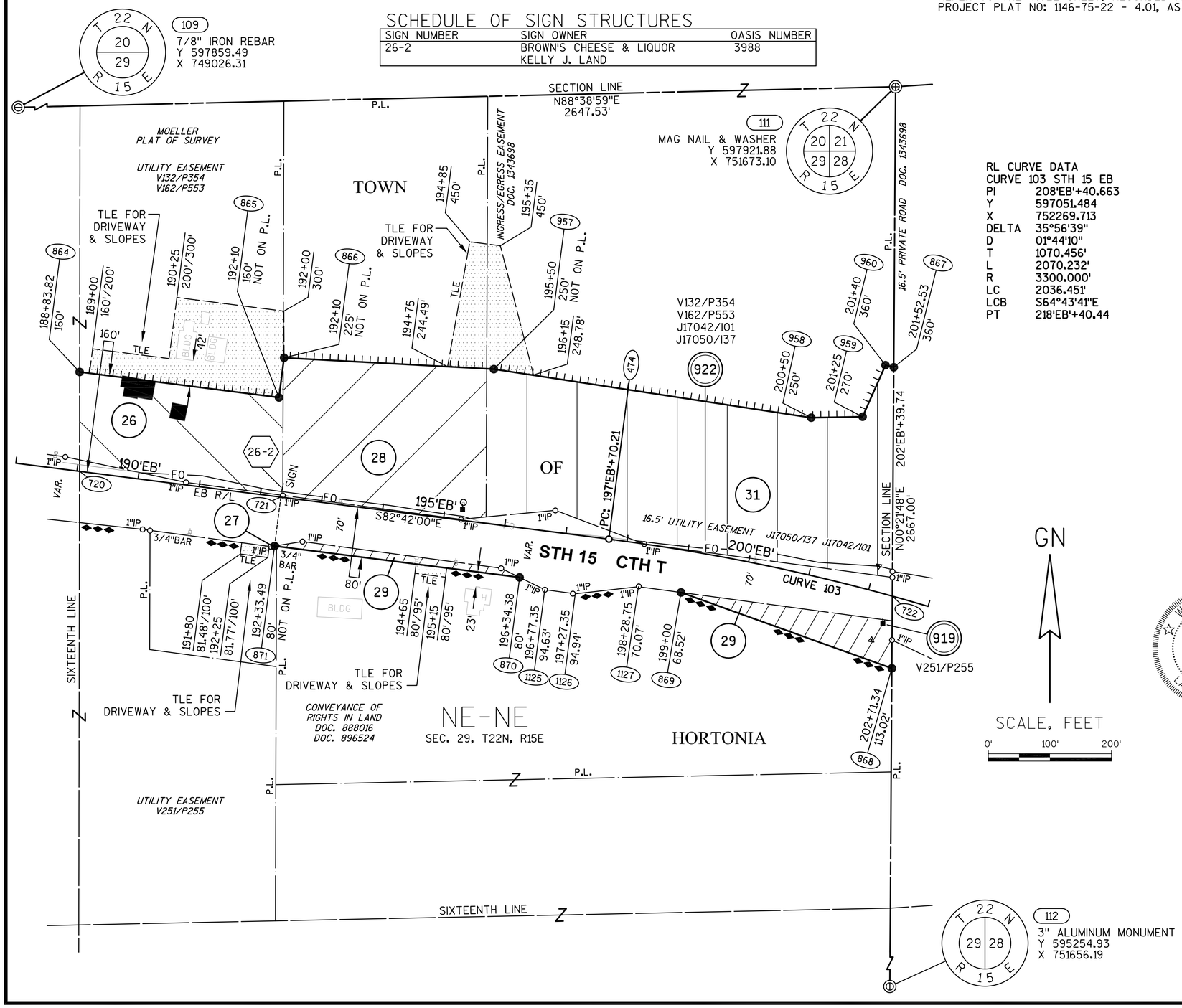
ROUTE	BASIS	YEAR
STH 15 AND CTH T	TPP NO: 6430-06-00 - 4.14	2011

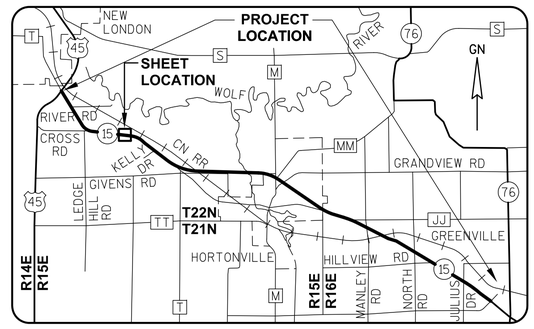
EXISTING ACCESS CONTROL: PROJECT 1146-1-22/F 07(19)

RL CURVE DATA
CURVE 103 STH 15 EB
PI 208'EB'+40.663
Y 597051.484
X 752269.713
DELTA 35°56'39"
D 01°44'10"
T 1070.456'
L 2070.232'
R 3300.000'
LC 2036.451'
LCB S64°43'41"E
PT 218'EB'+40.44

COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
111	867	S00°21'48"W	455.40'
867	722	S00°21'48"W	371.53'
722	868	S00°21'48"W	117.21'
868	869	N70°12'20"W	363.66'
869	1127	N82°20'11"W	69.77'
1127	1126	S83°37'35"W	103.08'
1126	1125	N82°20'14"W	50.00'
1125	870	N63°54'11"W	45.40'
870	871	N82°42'00"W	400.88'
871	721	N07°18'00"E	80.00'
721	720	N82°42'00"W	329.41'
720	864	N00°05'05"E	161.28'
864	865	S82°42'00"E	326.18'
865	866	N07°18'00"E	65.00'
866	957	S86°54'19"E	340.92'
957	958	S81°17'51"E	520.99'
958	959	N88°55'29"E	83.34'
959	960	N23°56'14"E	91.49'
960	867	S76°10'15"E	13.90'





GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.12, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 11/06/2014 JAY W. PANETTI
PLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 4/09/2015 CURT VAN EREM
REAL ESTATE SUPERVISOR

APPROVED FOR TAXABLE VALUE ADJUSTMENTS ONLY

040412_15.DWG REVISED: 11/06/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.13 AMENDMENT NO: 1

AMENDS PARCEL 32 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.13, RECORDED AS DOCUMENT #2040570. PART OF LOTS 1 AND 3 OF CSM 4209 AND PART OF LOT 2 OF CSM 5404, BEING PART OF THE NW1/4-NW1/4 OF SECTION 28, T22N, R15E, ALL IN THE TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

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

Document #: **2087238**
Date: **10-17-2016** Time: **02:25 PM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP, REGISTER OF DEEDS
This document has been electronically recorded and returned to:
WiDotNeRegionGreenbay

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.13
AMENDMENT NO: 1

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 INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
32	JANE C. SCHIEDERMAYER, TRUSTEE OF THE JANE C. SCHIEDERMAYER REVOCABLE TRUST, DATED 8/27/03	FEE	3.664	0	3.664	0
33	TED J. LATHROP	FEE	1.612	0	1.612	0
34	FAMILY FLOORS, LLC	FEE	0.068	0	0.068	0

UTILITY INTERESTS REQUIRED:

919	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
922	AT&T WISCONSIN	RELEASE OF RIGHTS

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT *2016623 FOR ADDITIONAL INFORMATION.

BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15 AND CTH T	TPP NO: 6430-06-00 - 4.13, 4.14	2011

EXISTING ACCESS CONTROL: PROJECT 1146-1-22/F 07(19)

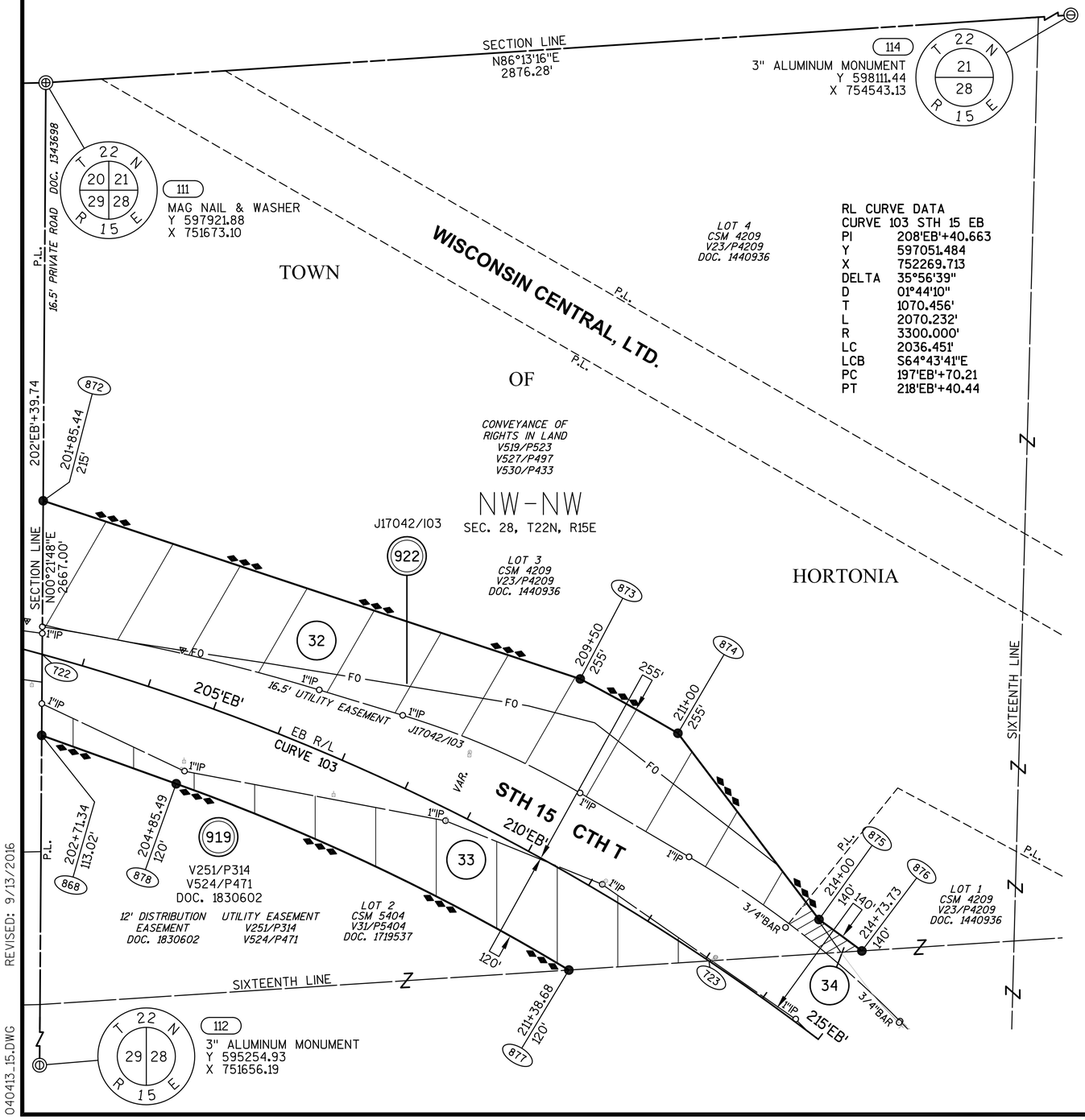
COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
111	872	S00°21'48"W	604.74'
872	873	S71°38'13"E	818.14'
*873	874	S60°54'50"E	161.58'
874	875	S37°08'08"E	337.97'
*875	876	S53°45'46"E	76.85'
876	723	S86°15'52"W	221.67'
723	877	S86°15'52"W	202.91'
*877	878	N64°36'38"W	628.41'
878	868	N70°12'20"W	206.67'
868	722	N00°21'48"E	117.21'
722	872	N00°21'48"E	222.18'

*SEE CURVE TABLE

CURVE TABLE

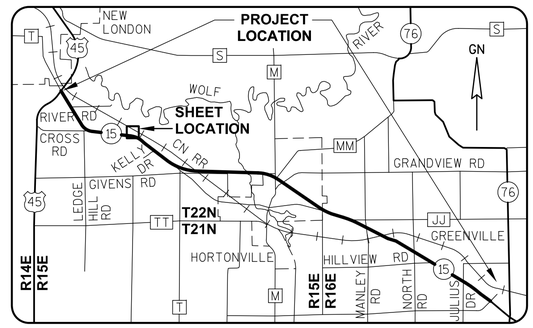
FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
873	874	3555.00'	161.59'	S60°54'50"E	161.58'
875	876	3440.00'	76.86'	S53°45'46"E	76.85'
877	878	3180.00'	629.44'	N64°36'38"W	628.41'



GN

SCALE, FEET
0' 100' 200'

WISCONSIN
JAY W. PANETTI
S-2747
WAUPUN, WI
LAND SURVEYOR



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.13, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 9/13/2016 JAY W. PANETTI
PLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 10/10/2016 CURT VAN EREM
REAL ESTATE SUPERVISOR

APPROVED FOR PROPERTY ADJUSTMENT ONLY 2016

REVISED: 9/13/2016
040413_15.DWG

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.13

PART OF LOTS 1 AND 3 OF CSM 4209 AND PART OF LOT 2 OF CSM 5404, BEING PART OF THE NW1/4-NW1/4 OF SECTION 28, T22N, R15E, ALL IN THE TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

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

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

Document #: **2040570**
Date: **04-15-2015** Time: **01:49 PM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP , REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.13
AMENDMENT NO:

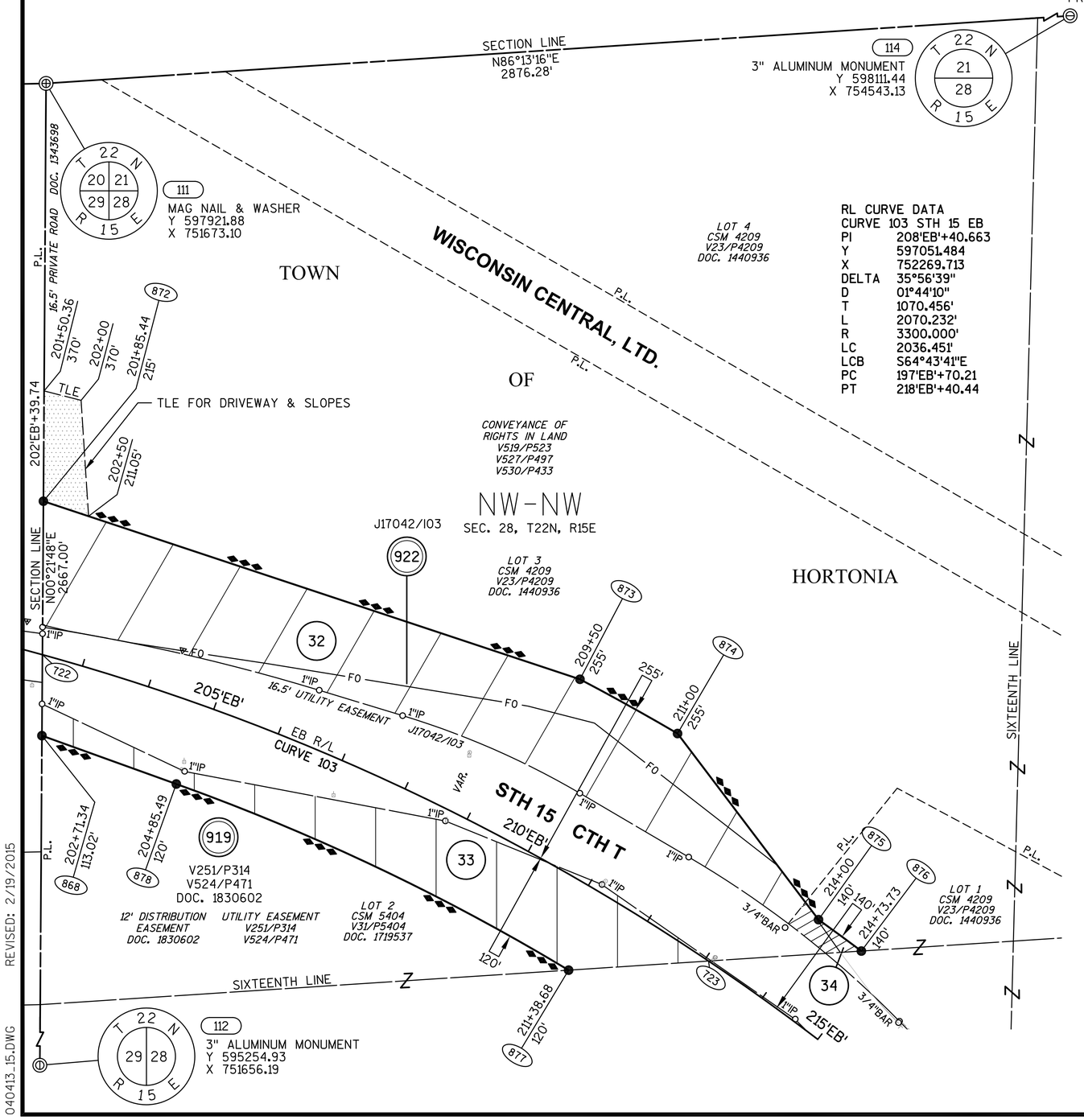
SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
32	JANE C. SCHIEDERMAYER, TRUSTEE OF THE JANE C. SCHIEDERMAYER REVOCABLE TRUST, DATED 8/27/03	FEE, TLE	3.664	0	3.664	0.221
33	TED J. LATHROP	FEE	1.612	0	1.612	0
34	FAMILY FLOORS, LLC	FEE	0.068	0	0.068	0

UTILITY INTERESTS REQUIRED:

919	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
922	AT&T WISCONSIN	RELEASE OF RIGHTS



BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15 AND CTH T	TPP NO: 6430-06-00 - 4.13, 4.14	2011

EXISTING ACCESS CONTROL: PROJECT 1146-1-22/F 07(19)

COURSE TABLE

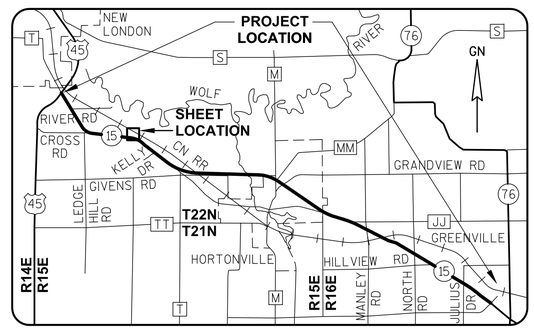
FROM POINT	TO POINT	BEARING	DISTANCE
111	872	S00°21'48"W	604.74'
872	873	S71°38'13"E	818.14'
*873	874	S60°54'50"E	161.58'
874	875	S37°08'08"E	337.97'
*875	876	S53°45'46"E	76.85'
876	723	S86°15'52"W	221.67'
723	877	S86°15'52"W	202.91'
*877	878	N64°36'38"W	628.41'
878	868	N70°12'20"W	206.67'
868	722	N00°21'48"E	117.21'
722	872	N00°21'48"E	222.18'

*SEE CURVE TABLE

CURVE TABLE

FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
873	874	3555.00'	161.59'	S60°54'50"E	161.58'
875	876	3440.00'	76.86'	S53°45'46"E	76.85'
877	878	3180.00'	629.44'	N64°36'38"W	628.41'

WISCONSIN
JAY W. PANETTI
S-2747
WAUPUN, WI
LAND SURVEYOR



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.13, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 2/19/2015 JAY W. PANETTI
PLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 4/09/2015 CURT VAN EREM
REAL ESTATE SUPERVISOR

APPROVED FOR RIGHT OF WAY ADJUSTMENTS ONLY

REVISED: 2/19/2015

040413_15.DWG

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.14 AMENDMENT NO: 1

AMENDS PARCEL 37 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.14, RECORDED AS DOCUMENT #2037958. PART OF LOT 1 OF CSM 6766 AND PART OF THE SW1/4-NW1/4 OF SECTION 28, T22N, R15E, ALL IN THE TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

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

Document #: **2106949**
Date: **06-21-2017** Time: **08:44 AM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP, REGISTER OF DEEDS
This document has been electronically recorded and returned to:
WiDotNeRegionGreenbay

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.14
AMENDMENT NO: 1

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 INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
33	TED J. LATHROP	FEE, TLE	0.849	0	0.849	0.325
34	FAMILY FLOORS, LLC	FEE	0.369	0	0.369	0
36	SAMUEL F. THOMPSON & ELISABETH L. THOMPSON	FEE, TLE	0.854	0	0.854	0.197
37	JACOB W. SCHIEDERMAYER & DANA RAE SCHIEDERMAYER	FEE	0.001	0	0.001	0

UTILITY INTERESTS REQUIRED:

919	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
922	AT&T WISCONSIN	RELEASE OF RIGHTS

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15 AND CTH T	TPP NO: 6430-06-00 - 4.13, 4.14	2011

EXISTING ACCESS CONTROL: PROJECT 1146-1-22/F 07(19)

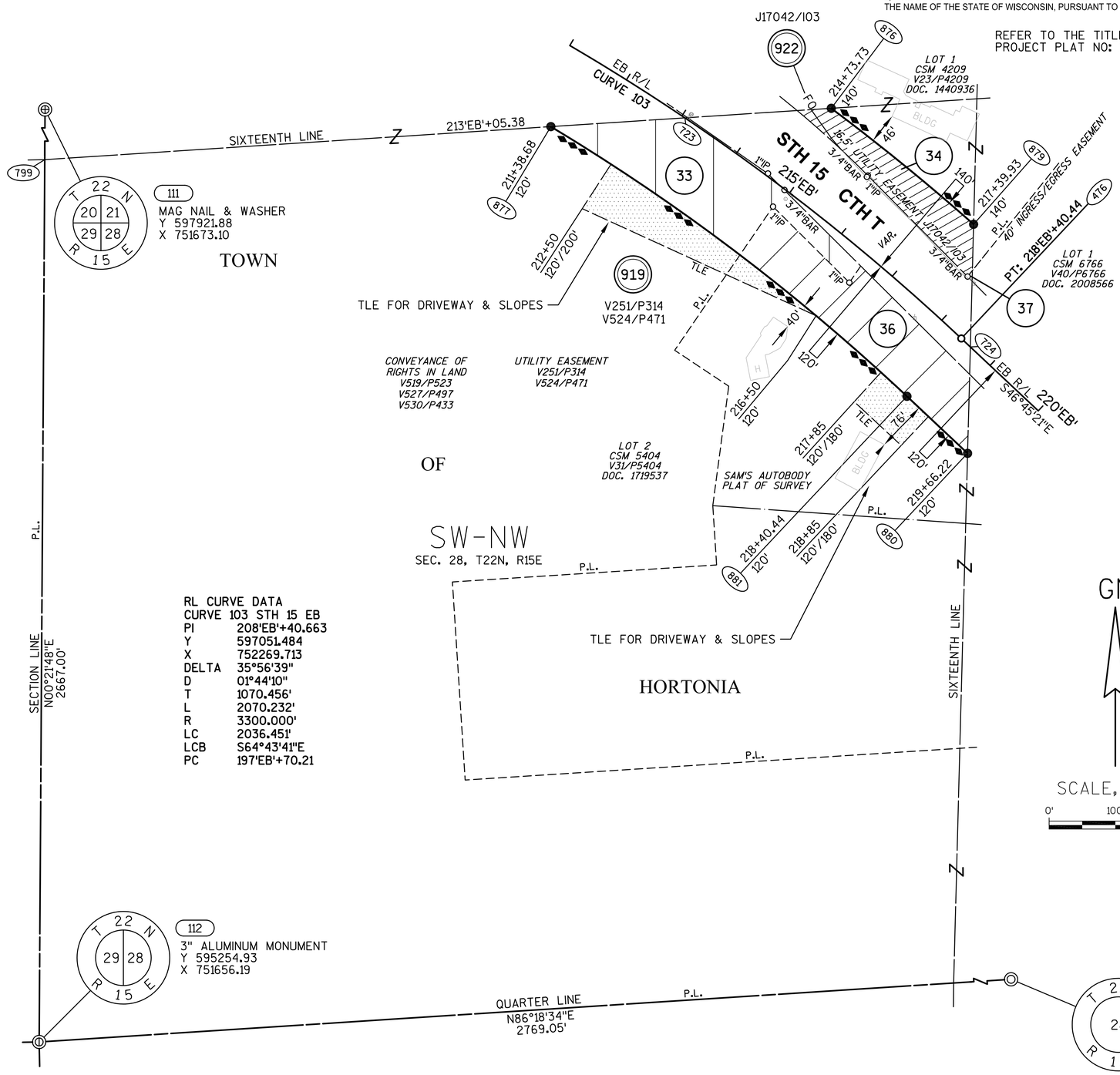
COURSE TABLE

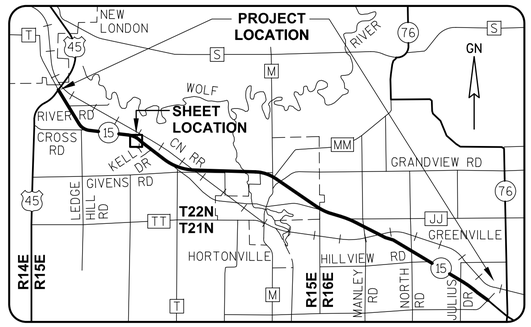
FROM POINT	TO POINT	BEARING	DISTANCE
111	799	S00°21'48"W	1333.50'
799	877	N86°15'52"E	766.28'
877	723	N86°15'52"E	202.91'
723	876	N86°15'52"E	221.67'
*876	879	S50°48'43"E	277.42'
879	724	S01°30'22"W	185.48'
724	880	S01°30'22"W	160.82'
880	881	N46°45'21"W	125.78'
*881	877	N52°50'53"W	674.97'

*SEE CURVE TABLE

CURVE TABLE

FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
876	879	3440.00'	277.50'	S50°48'43"E	277.42'
881	877	3180.00'	676.24'	N52°50'53"W	674.97'





GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.14, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 6/20/2017 JAY W. PANETTI
PLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 6/20/2017 CURT VAN EREM
REAL ESTATE SUPERVISOR

APPROVED FOR PUBLIC RECORD
NOVEMBER 2009

040414_15.DWG REVISED: 6/20/2017

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.14

PART OF LOTS 1 AND 2 OF CSM 4209, PART OF LOT 2 OF CSM 5404, AND PART OF THE SW1/4-NW1/4 OF SECTION 28, T22N, R15E, ALL IN THE TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

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

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

Document #: **2037958**
Date: **03-16-2015** Time: **08:26 AM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP, REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.14
AMENDMENT NO:

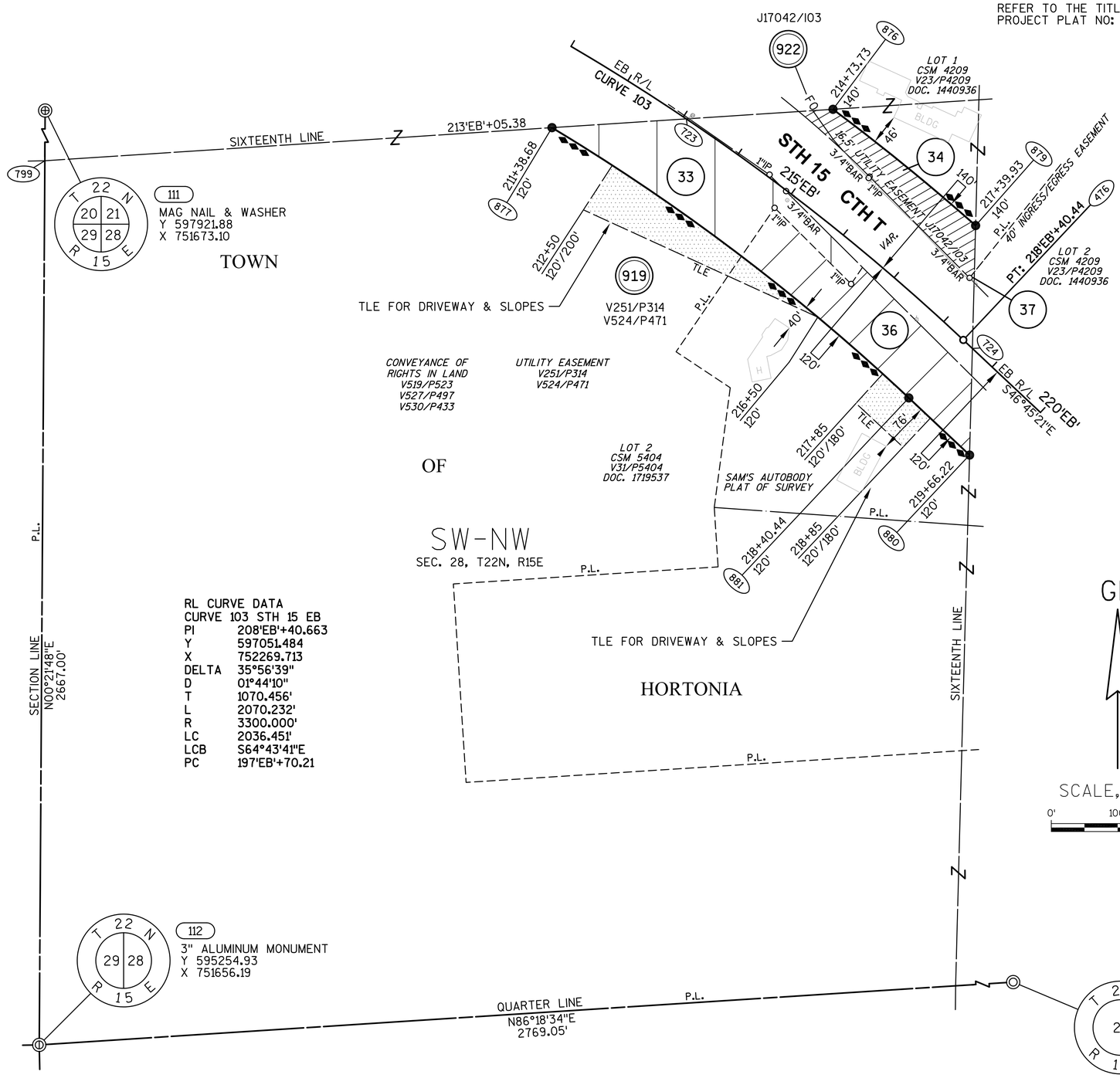
SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
33	TED J. LATHROP	FEE, TLE	0.849	0	0.849	0.325
34	FAMILY FLOORS, LLC	FEE	0.369	0	0.369	0
36	SAMUEL F. THOMPSON & ELISABETH L. THOMPSON	FEE, TLE	0.854	0	0.854	0.197
37	JACOB W. SCHIEDERMAYER & DANA RAE SCHIEDERMAYER	FEE	0.001	0	0.001	0

UTILITY INTERESTS REQUIRED:

919	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
922	AT&T WISCONSIN	RELEASE OF RIGHTS



BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15 AND CTH T	TPP NO: 6430-06-00 - 4.13, 4.14	2011

EXISTING ACCESS CONTROL: PROJECT 1146-1-22/F 07(19)

COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
111	799	S00°21'48"W	1333.50'
799	877	N86°15'52"E	766.28'
877	723	N86°15'52"E	202.91'
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879	724	S01°30'22"W	185.48'
724	880	S01°30'22"W	160.82'
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*SEE CURVE TABLE

CURVE TABLE

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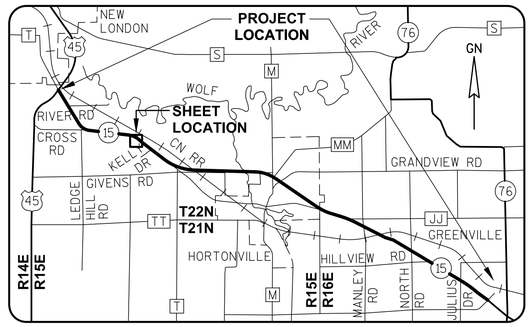

GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.14, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 11/06/2014 JAY W. PANETTI RLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 3/11/2015 CURT VAN EREM
REAL ESTATE SUPERVISOR

APPROVED FOR RIGHT OF WAY ADJUSTMENTS ONLY

REVISED: 11/06/2014

040414_15.DWG

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.15 AMENDMENT NO: 2

AMENDS PARCEL 32 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.15, AMENDMENT NO. 1, RECORDED AS DOCUMENT #2046214, AND AMENDS PARCELS 37 & 41 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.15, RECORDED AS DOCUMENT #2037959. PART OF LOT 1 OF CSM 5404, PART OF LOT 1 OF CSM 6766, PART OF LOTS 1 AND 2 OF CSM 7226, AND PART OF THE SE1/4-NW1/4 OF SECTION 28, T22N, R15E, ALL IN THE TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1) THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
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Document #: **2105791**
Date: **06-06-2017** Time: **03:15 PM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP, REGISTER OF DEEDS
This document has been electronically recorded and returned to:
WiDotNeRegionGreenbay

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.15
AMENDMENT NO: 2

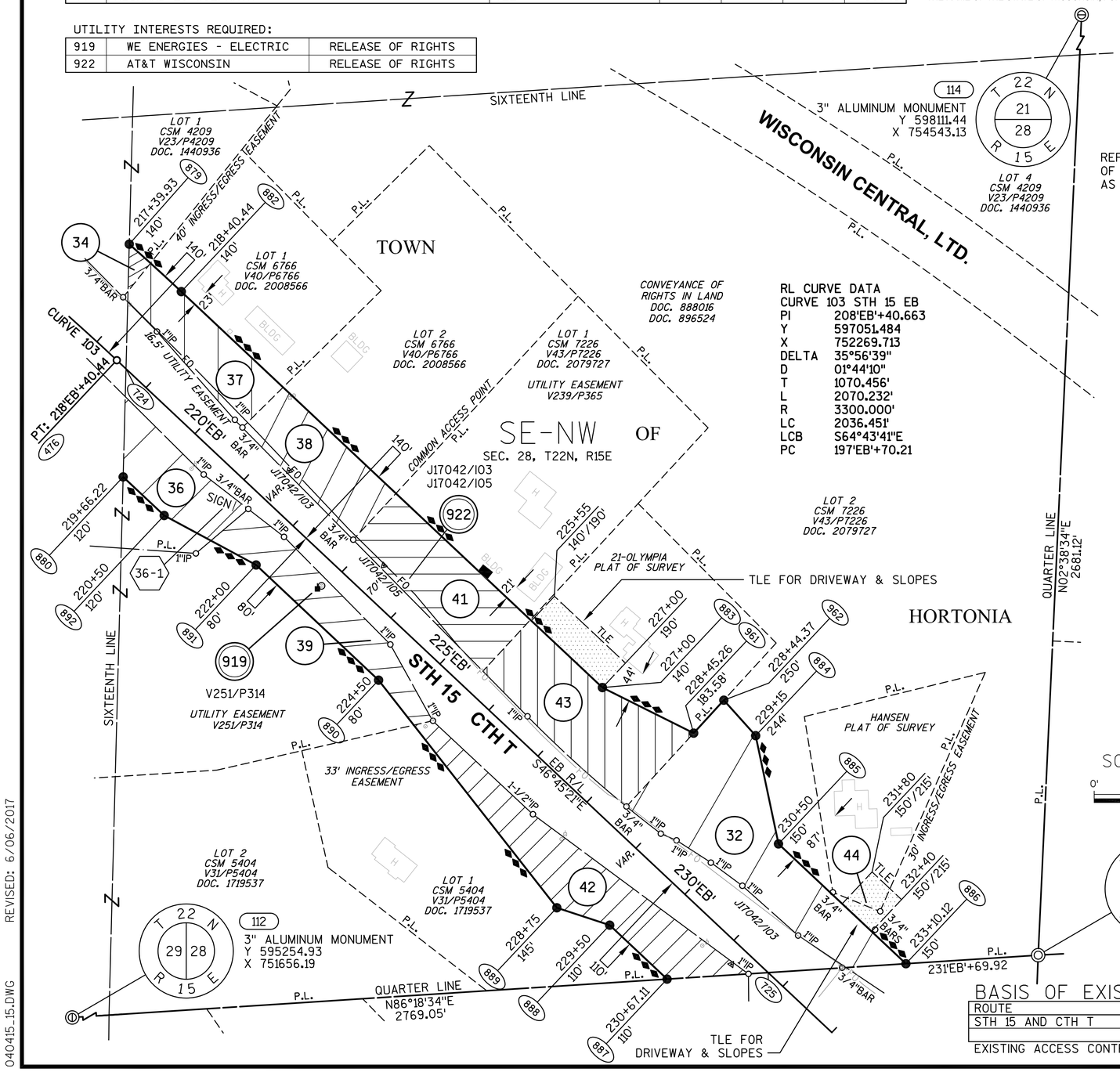
SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
32	JANE C. SCHIEDERMAYER, TRUSTEE OF THE JANE C. SCHIEDERMAYER REVOCABLE TRUST, DATED 8/27/03	FEE, TLE	1.162	0	1.162	0.045
34	FAMILY FLOORS, LLC	FEE	0.026	0	0.026	0
36	SAMUEL F. THOMPSON & ELISABETH L. THOMPSON INDENT USA	FEE	0.387	0	0.387	0
37	JACOB W. SCHIEDERMAYER & DANA RAE SCHIEDERMAYER	FEE	0.452	0	0.452	0
38	DEAN A. SCHIEDERMAYER	FEE	0.478	0	0.478	0
39	DANIEL L. MERCER & MELISSA J. MERCER	FEE	0.489	0	0.489	0
41	JAMES F. SCHIEDERMAYER & FAITH R. SCHIEDERMAYER	FEE	0.623	0	0.623	0
42	THOMAS LATHROP & MARY ANN LATHROP	FEE	0.813	0	0.813	0
43	GARY C. WOLF	FEE, TLE	0.794	0	0.794	0.166
44	RICHARD L. WOLFRATH	TLE	0	0	0	0.045

UTILITY INTERESTS REQUIRED:

919	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
922	AT&T WISCONSIN	RELEASE OF RIGHTS



SCHEDULE OF SIGN STRUCTURES

SIGN NUMBER	SIGN OWNER	OASIS NUMBER
36-1	INDENT USA SAMUEL F. THOMPSON & ELISABETH L. THOMPSON	3987

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

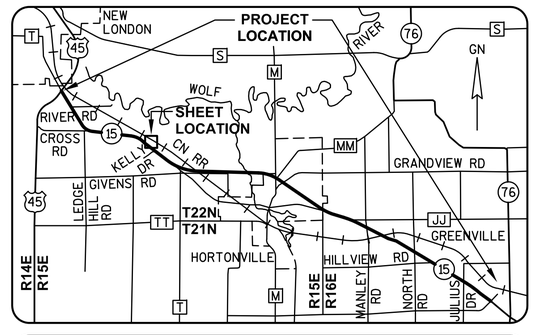
COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
112	887	N86°18'34"E	2216.08'
887	888	N46°45'21"W	117.11'
888	889	N71°46'22"W	82.76'
889	890	N38°03'37"W	429.94'
890	891	N46°45'21"W	250.00'
891	892	N61°41'14"W	155.24'
892	880	N46°45'21"W	83.78'
880	724	N01°30'22"E	160.82'
724	879	N01°30'22"E	185.48'
*879	882	S47°37'42"E	104.77'
882	883	S46°45'21"E	859.56'
883	961	S63°27'18"E	151.65'
961	962	N42°29'01"E	66.43'
962	884	S41°54'00"E	70.88'
884	885	S11°54'24"E	164.50'
885	886	S46°45'21"E	260.12'
886	725	S86°18'34"W	205.32'
725	887	S86°18'34"W	150.57'

*SEE CURVE TABLE

CURVE TABLE

FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
879	882	3440.00'	104.77'	S47°37'42"E	104.77'



T 22 N
R 15 E
29 28
112
3" ALUMINUM MONUMENT
Y 595254.93
X 751656.19

T 22 N
R 15 E
28
115
3" ALUMINUM MONUMENT
Y 595433.17
X 754419.50

BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15 AND CTH T	TPP NO: 6430-06-00 - 4.13	2011

EXISTING ACCESS CONTROL: PROJECT 1146-1-22/F 07(19)

GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.15, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 6/06/2017 JAY W. PANETTI
PLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 6/06/2017 CURT VAN EREM
REAL ESTATE SUPERVISOR

APPROVED PLAT SUBJECT TO FINAL ADJUSTMENT NOVEMBER 2019

040415_15.DWG REVISED: 6/06/2017

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.15 AMENDMENT NO: 1

AMENDS PARCEL 32 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.15, RECORDED AS DOCUMENT #2037959. PART OF LOT 1 OF CSM 2535, PART OF LOTS 1, 2 AND 3 OF CSM 4209, PART OF LOT 1 OF CSM 5404, AND PART OF THE SE1/4-NW1/4 OF SECTION 28, T22N, R15E, ALL IN THE TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

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Document #: **2046214**
Date: **06-16-2015** Time: **10:27 AM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP , REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.15
AMENDMENT NO: 1

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT *2016623 FOR ADDITIONAL INFORMATION.

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 INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
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34	FAMILY FLOORS, LLC	FEE	0.026	0	0.026	0
36	SAMUEL F. THOMPSON & ELISABETH L. THOMPSON INDENT USA	FEE	0.387	0	0.387	0
37	JACOB W. SCHIEDERMAYER & DANA RAE SCHIEDERMAYER	FEE	0.452	0	0.452	0
38	DEAN A. SCHIEDERMAYER	FEE	0.478	0	0.478	0
39	DANIEL L. MERCER & MELISSA J. MERCER	FEE	0.489	0	0.489	0
41	JAMES F. SCHIEDERMAYER & FAITH R. SCHIEDERMAYER	FEE	0.623	0	0.623	0
42	THOMAS LATHROP & MARY ANN LATHROP	FEE	0.813	0	0.813	0
43	GARY C. WOLF	FEE, TLE	0.794	0	0.794	0.166
44	RICHARD L. WOLFRATH	TLE	0	0	0	0.045

UTILITY INTERESTS REQUIRED:

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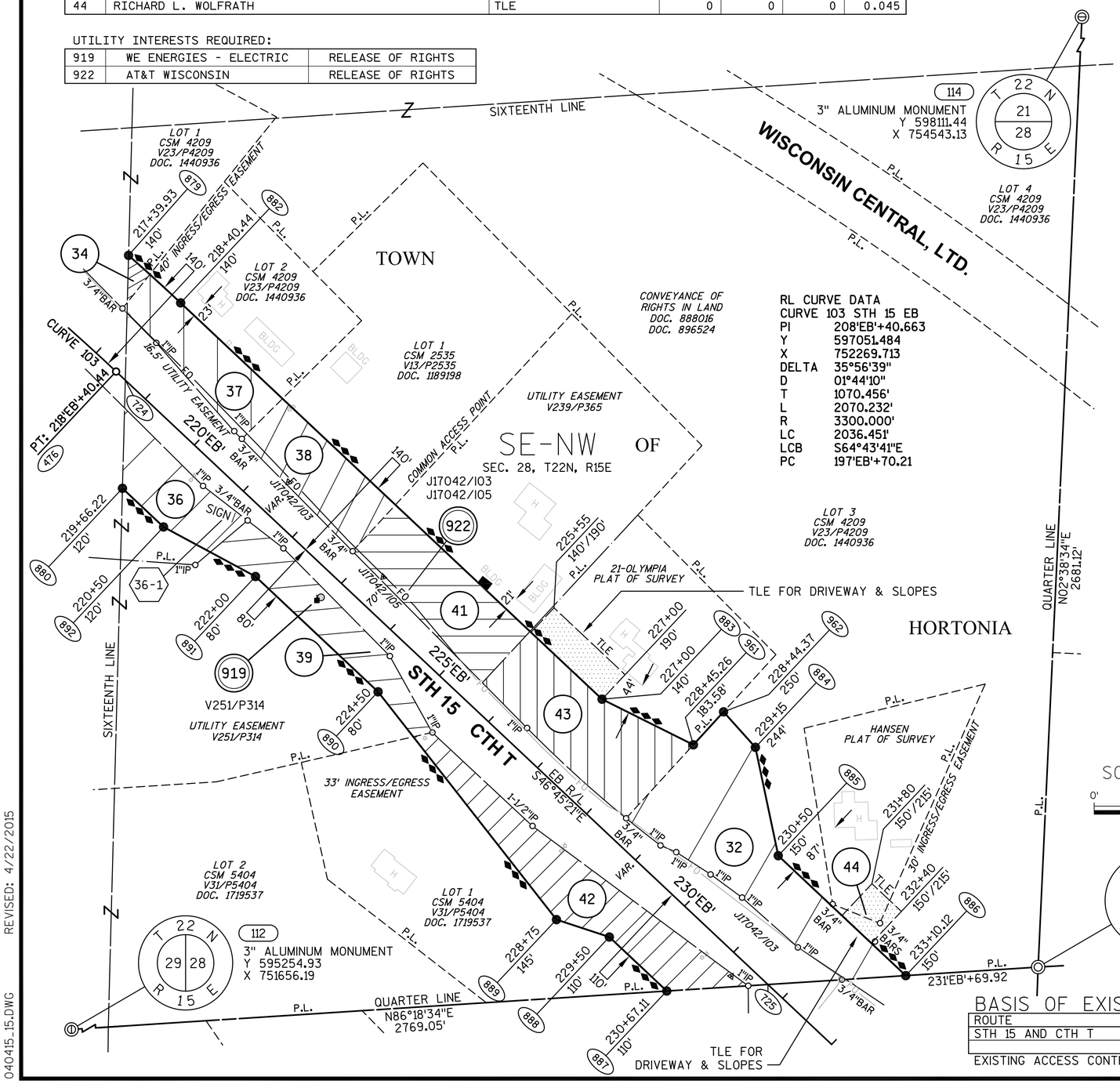

SCHEDULE OF SIGN STRUCTURES

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*879	882	S47°37'42"E	104.77'
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884	885	S11°54'24"E	164.50'
885	886	S46°45'21"E	260.12'
886	725	S86°18'34"W	205.32'
725	887	S86°18'34"W	150.57'

*SEE CURVE TABLE

CURVE TABLE

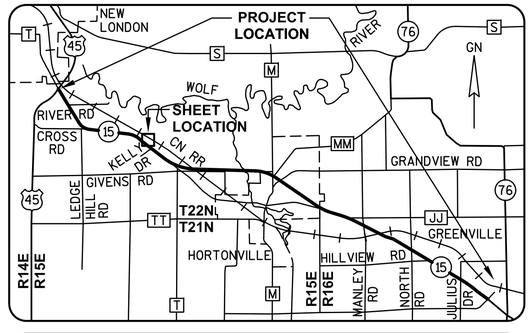
FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
879	882	3440.00'	104.77'	S47°37'42"E	104.77'

RL CURVE DATA
CURVE 103 STH 15 EB
PI 208'EB'+40.663
Y 597051.484
X 752269.713
DELTA 35°56'39"
D 01°44'10"
T 1070.456'
L 2070.232'
R 3300.000'
LC 2036.451'
LCB S64°43'41"E
PC 197'EB'+70.21

BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15 AND CTH T	TPP NO: 6430-06-00 - 4.13	2011

EXISTING ACCESS CONTROL: PROJECT 1146-1-22/F 07(19)



WISCONSIN
JAY W. PANETTI S-2747 WAUPUN, WI
LAND SURVEYOR

GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.15, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 4/22/2015 JAY W. PANETTI
PLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 6/11/2015 CURT VAN EREM
REAL ESTATE SUPERVISOR

APPROVED PLAT MAY BE ADJUSTED AT CLOSING

040415_15.DWG REVISED: 4/22/2015

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.15

PART OF LOT 1 OF CSM 2535, PART OF LOTS 1, 2 AND 3 OF CSM 4209, PART OF LOT 1 OF CSM 5404, AND PART OF THE SE1/4-NW1/4 OF SECTION 28, T22N, R15E, ALL IN THE TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

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

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

Document #: **2037959**
Date: **03-16-2015** Time: **08:27 AM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP , REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.15
AMENDMENT NO:

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 INTERESTS TO THE DEPARTMENT.

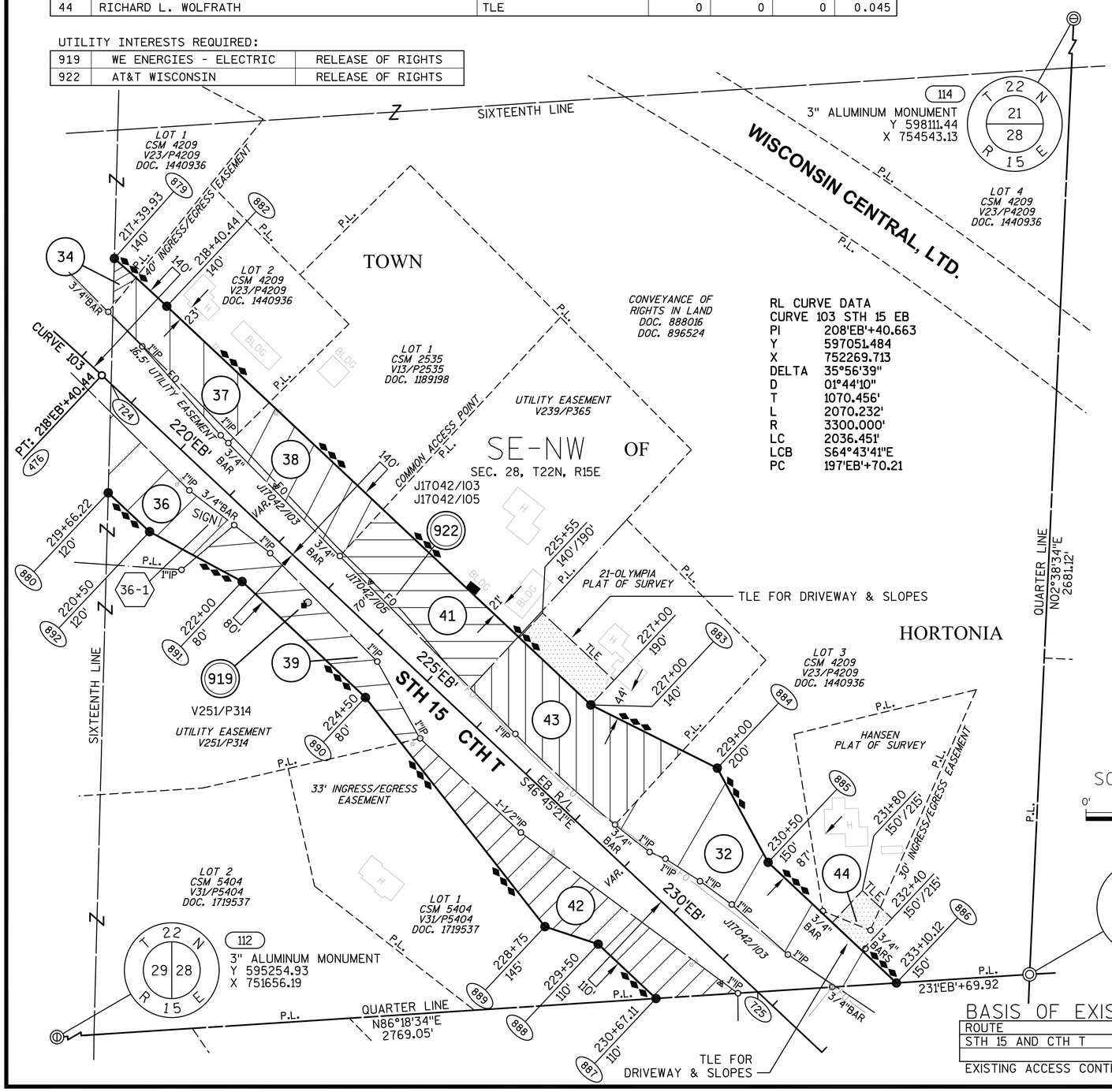
PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
32	JANE C. SCHIEDERMAYER, TRUSTEE OF THE JANE C. SCHIEDERMAYER REVOCABLE TRUST, DATED 8/27/03	FEE, TLE	0.999	0	0.999	0.045
34	FAMILY FLOORS, LLC	FEE	0.026	0	0.026	0
36	SAMUEL F. THOMPSON & ELISABETH L. THOMPSON INDENT USA	FEE	0.387	0	0.387	0
37	JACOB W. SCHIEDERMAYER & DANA RAE SCHIEDERMAYER	FEE	0.452	0	0.452	0
38	DEAN A. SCHIEDERMAYER	FEE	0.478	0	0.478	0
39	DANIEL L. MERCER & MELISSA J. MERCER	FEE	0.489	0	0.489	0
41	JAMES F. SCHIEDERMAYER & FAITH R. SCHIEDERMAYER	FEE	0.623	0	0.623	0
42	THOMAS LATHROP & MARY ANN LATHROP	FEE	0.813	0	0.813	0
43	GARY C. WOLF	FEE, TLE	0.794	0	0.794	0.166
44	RICHARD L. WOLFRATH	TLE	0	0	0	0.045

UTILITY INTERESTS REQUIRED:

919	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
922	AT&T WISCONSIN	RELEASE OF RIGHTS

SCHEDULE OF SIGN STRUCTURES

SIGN NUMBER	SIGN OWNER	OASIS NUMBER
36-1	INDENT USA	3987
	SAMUEL F. THOMPSON & ELISABETH L. THOMPSON	



RL CURVE DATA

CURVE	103 STH 15 EB
PI	208'EB'+40.663
Y	597051.484
X	752269.713
DELTA	35°56'39"
D	01°44'10"
T	1070.456'
L	2070.232'
R	3300.000'
LC	2036.451'
LCB	S64°43'41"E
PC	197'EB'+70.21

COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
112	887	N86°18'34"E	2216.08'
887	888	N46°45'21"W	117.11'
888	889	N71°46'22"W	82.76'
889	890	N38°03'37"W	429.94'
890	891	N46°45'21"W	250.00'
891	892	N61°41'14"W	155.24'
892	880	N46°45'21"W	83.78'
880	724	N01°30'22"E	160.82'
724	879	N01°30'22"E	185.48'
*879	882	S47°37'42"E	104.77'
882	883	S46°45'21"E	859.56'
883	884	S63°27'18"E	208.81'
884	885	S28°19'15"E	158.11'
885	886	S46°45'21"E	260.12'
886	725	S86°18'34"W	205.32'
725	887	S86°18'34"W	150.57'

*SEE CURVE TABLE

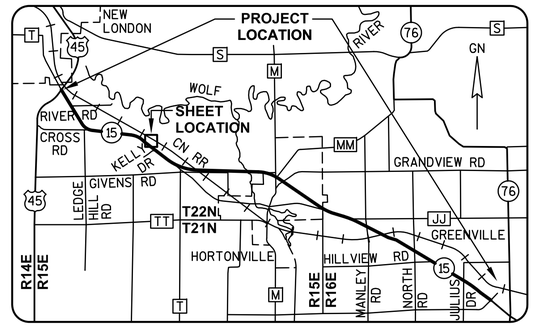
CURVE TABLE

FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
879	882	3440.00'	104.77'	S47°37'42"E	104.77'

BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15 AND CTH T	TPP NO: 6430-06-00 - 4.13	2011

EXISTING ACCESS CONTROL: PROJECT 1146-1-22/F 07(19)



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.15, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 11/06/2014
JAY W. PANETTI
RLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 3/11/2015
CURT VAN EREM
REAL ESTATE SUPERVISOR

APPROVED FOR FINAL ADJUSTMENTS

040415_15.DWG REVISED: 11/06/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.16

PART OF LOTS 1 AND 9 OF WIECKERT PLAT BEING PART OF THE NE1/4-SW1/4 OF SECTION 28, T22N, R15E, ALL IN THE TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

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2) THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

Document #: **2037960**
Date: **03-16-2015** Time: **08:27 AM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP , REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.16
AMENDMENT NO:

SCHEDULE OF LANDS & INTERESTS REQUIRED

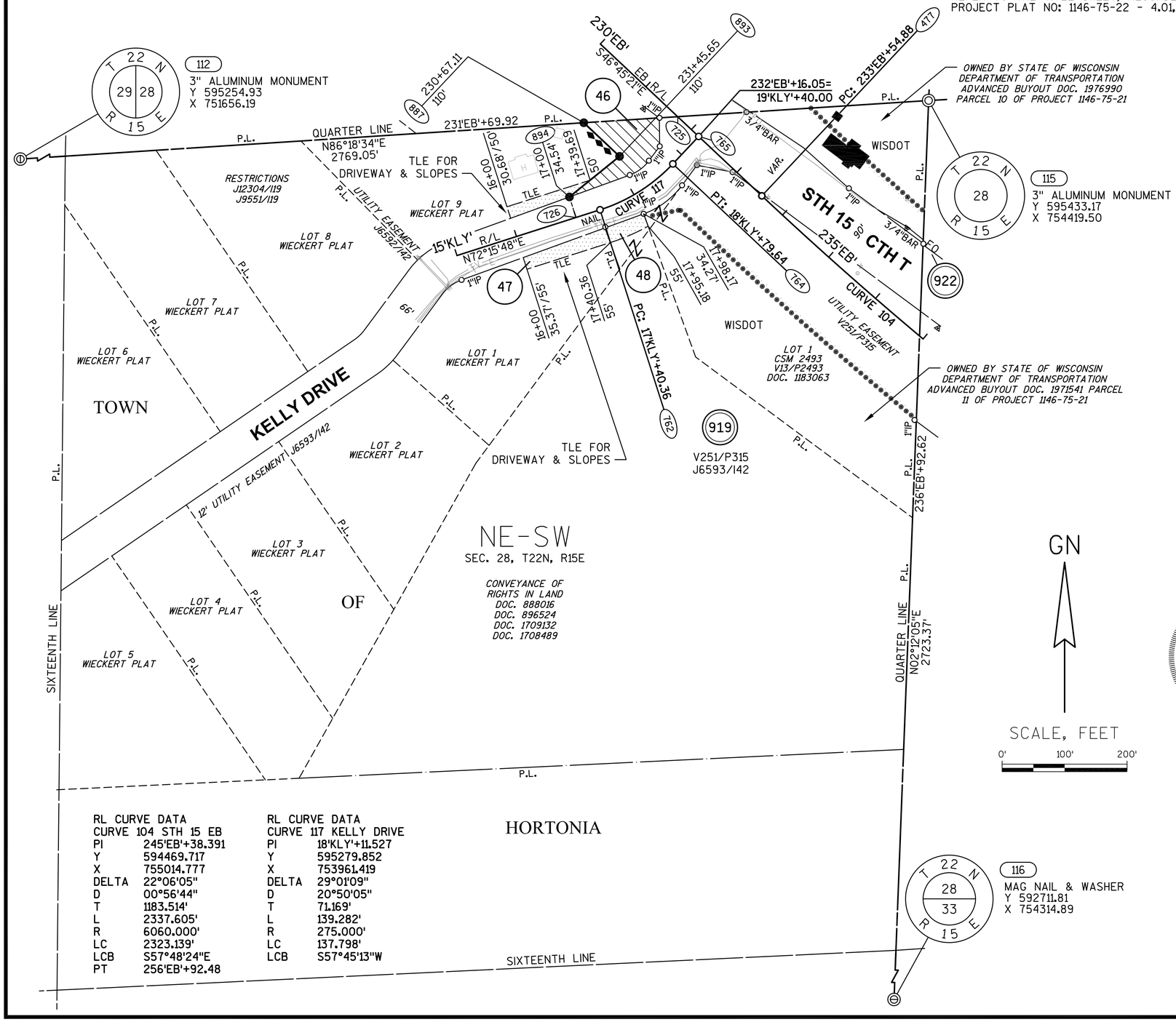
OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
46	LAYNE D. CARLSON & JUDITH A. CARLSON	FEE, TLE	0.184	0	0.184	0.047
47	DAYLE R. KRIEWALDT & VIRGINIA L. KRIEWALDT	TLE	0	0	0	0.071
48	SCOTT L. SEABORNE & ELIZABETH A. SEABORNE	TLE	0	0	0	0.037

UTILITY INTERESTS REQUIRED:

919	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
922	AT&T WISCONSIN	RELEASE OF RIGHTS

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.



GN

SCALE, FEET
0' 100' 200'

WISCONSIN
JAY W. PANETTI S-2747 WAUPUN, WI
LAND SURVEYOR

BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15 AND CTH T	TPP NO: 6430-06-00 - 4.13	2011
KELLY DRIVE	TPP NO: 6430-06-00 - 4.13	2011

EXISTING ACCESS CONTROL: PROJECT 1146-1-22/F 07(19)

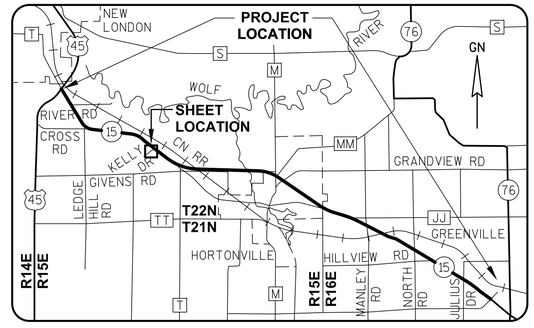
COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
112	887	N86°18'34"E	2216.08'
887	725	N86°18'34"E	150.57'
725	765	S46°45'21"E	46.13'
765	764	S43°14'39"W	60.36'
*764	762	S57°45'13"W	137.80'
762	726	S72°15'48"W	40.36'
726	894	N17°44'12"W	34.54'
894	893	N50°59'00"E	103.24'
893	887	N46°45'21"W	78.54'

*SEE CURVE TABLE

CURVE TABLE

FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
764	762	275.00'	139.28'	S57°45'13"W	137.80'



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.16, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 11/06/2014 JAY W. PANETTI
RLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 3/11/2015 CURT VAN EREM
REAL ESTATE SUPERVISOR

APPROVED FOR PUBLICATION BY ADJUSTMENTS 2015

RL CURVE DATA CURVE 104 STH 15 EB		RL CURVE DATA CURVE 117 KELLY DRIVE	
PI	245'EB'+38.391	PI	18'KLY'+11.527
Y	594469.717	Y	595279.852
X	755014.777	X	753961.419
DELTA	22°06'05"	DELTA	29°01'09"
D	00°56'44"	D	20°50'05"
T	1183.514'	T	71.169'
L	2337.605'	L	139.282'
R	6060.000'	R	275.000'
LC	2323.139'	LC	137.798'
LCB	S57°48'24"E	LCB	S57°45'13"W
PT	256'EB'+92.48		

REVISED: 11/06/2014

040416_15.DWG

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.17

PART OF LOTS 1, 2 AND 3 OF CSM #4549, PART OF THE NW1/4-SE1/4 AND PART OF THE SW1/4-SE1/4 OF SECTION 28, T22N, R15E, ALL IN THE TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

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REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

Document #: **2037961**
Date: **03-16-2015** Time: **08:27 AM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP , REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.17
AMENDMENT NO:

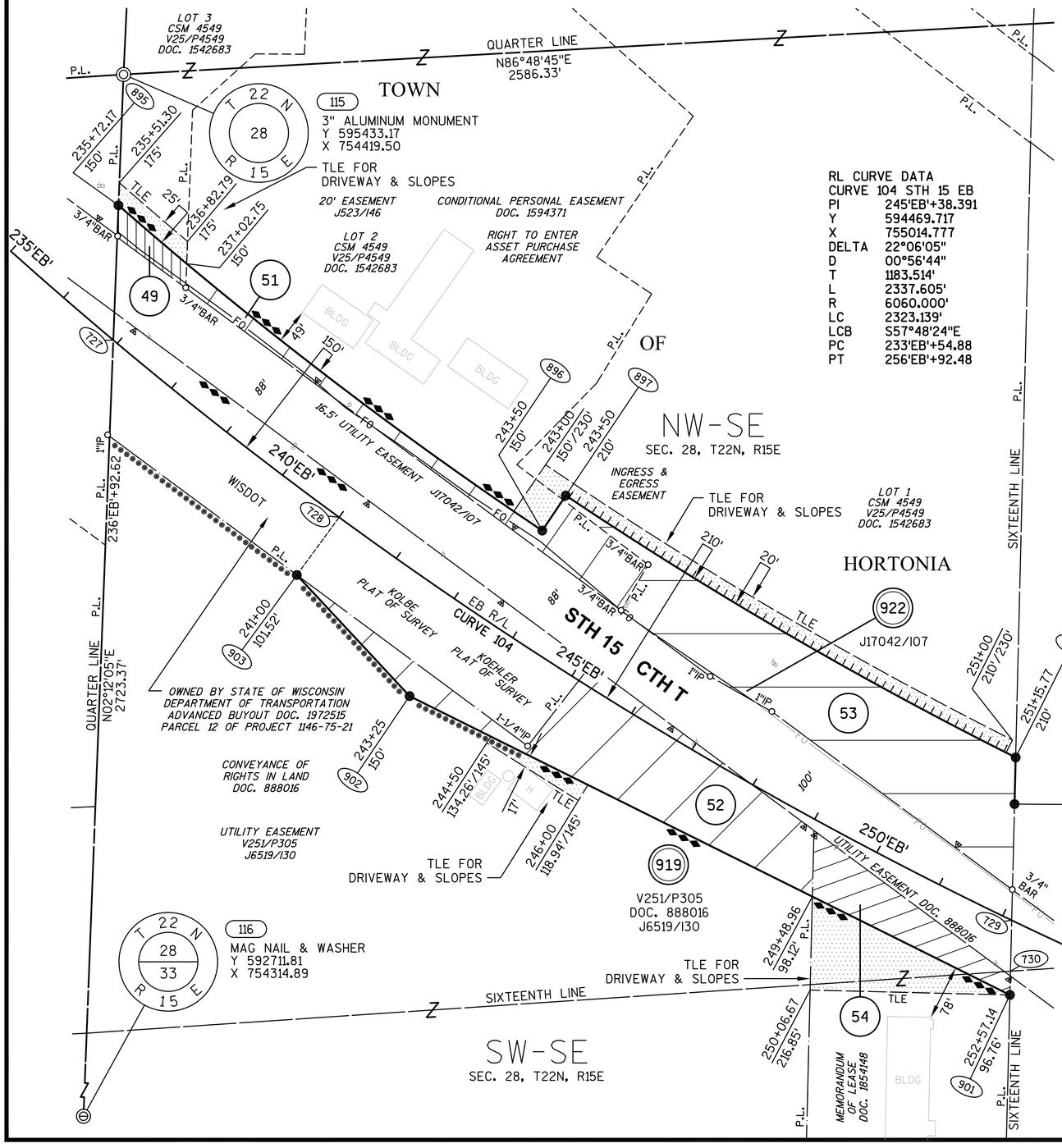
SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
49	CHAD R. WOLFRATH & KATHRYN E. WOLFRATH	FEE, TLE	0.091	0	0.091	0.073
51	WOLFRATH'S NURSERY AND LANDSCAPING, LLC	FEE, TLE	0.565	0	0.565	0.060
52	RODNEY F. MARTIN	FEE, TLE	1.382	0	1.382	0.065
53	ROBERT H. WOLFRATH & DARLENE M. WOLFRATH	FEE, ACCESS RIGHTS, TLE	1.793	0	1.793	0.361
54	BLACK OTTER, LLC	FEE, TLE	0.393	0	0.393	0.432

UTILITY INTERESTS REQUIRED:

919	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
922	AT&T WISCONSIN	RELEASE OF RIGHTS



RL CURVE DATA

CURVE	104 STH 15 EB
PI	245'EB'+38.391
Y	594469.717
X	755014.777
DELTA	22°06'05"
D	00°56'44"
T	1183.514'
L	2337.605'
R	6060.000'
LC	2323.139'
LCB	S57°48'24"E
PC	233'EB'+54.88
PT	256'EB'+92.48

GN

SCALE, FEET
0' 100' 200'

WISCONSIN
JAY W. PANETTI S-2747 WAUPUN, WI
LAND SURVEYOR

BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15 AND CTH T	TPP NO: 6430-06-00 - 4.12, 4.13	2011

EXISTING ACCESS CONTROL: PROJECT 1146-1-22/F 07(19)

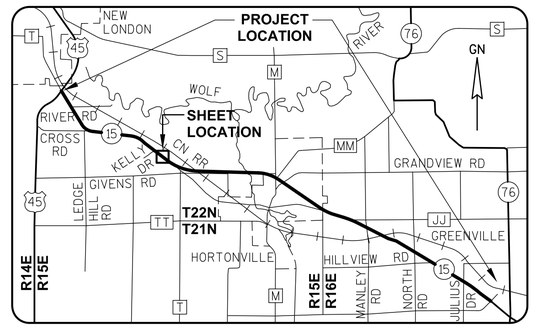
COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
116	727	N02°12'05"E	2346.05'
727	895	N02°12'05"E	191.44'
*895	896	S52°29'15"E	758.06'
896	897	N33°50'08"E	60.00'
*897	898	S59°47'05"E	738.74'
898	900	S01°23'15"W	66.24'
900	729	S01°23'15"W	164.98'
729	730	S01°23'15"W	72.30'
730	901	S01°23'15"W	33.68'
901	902	N63°31'55"W	951.66'
902	903	N42°56'44"W	234.72'
903	728	N36°11'57"E	101.52'
*728	727	N51°52'30"W	407.30'

*SEE CURVE TABLE

CURVE TABLE

FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
895	896	5910.00'	758.58'	S52°29'15"E	758.06'
897	898	5850.00'	739.23'	S59°47'05"E	738.74'
728	727	6060.00'	407.38'	N51°52'30"W	407.30'



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.17, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 11/06/2014 JAY W. PANETTI
RLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 3/11/2015 CURT VAN EREM
REAL ESTATE SUPERVISOR

APPROVED FOR PROPERTY ADJUSTMENTS ONLY 2015

040417_15.DWG REVISED: 11/06/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.18 AMENDMENT NO: 1

AMENDS PARCEL 57 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.18, RECORDED AS DOCUMENT #2037962. PART OF THE NE1/4-SE1/4 AND PART OF THE SE1/4-SE1/4 OF SECTION 28, T22N, R15E, ALL IN THE TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

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Document #: **2064106**
Date: **01-21-2016** Time: **09:05 AM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP, REGISTER OF DEEDS
This document has been electronically recorded and returned to:
WiDotNeRegionGreenbay

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.18
AMENDMENT NO: 1

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

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 INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
56	KEVIN SAMBS	FEE, ACCESS RIGHTS, TLE	11.302	0	11.302	0.921
57	ELIZABETH GAIGG	FEE, TLE	0.034	0	0.034	0.839

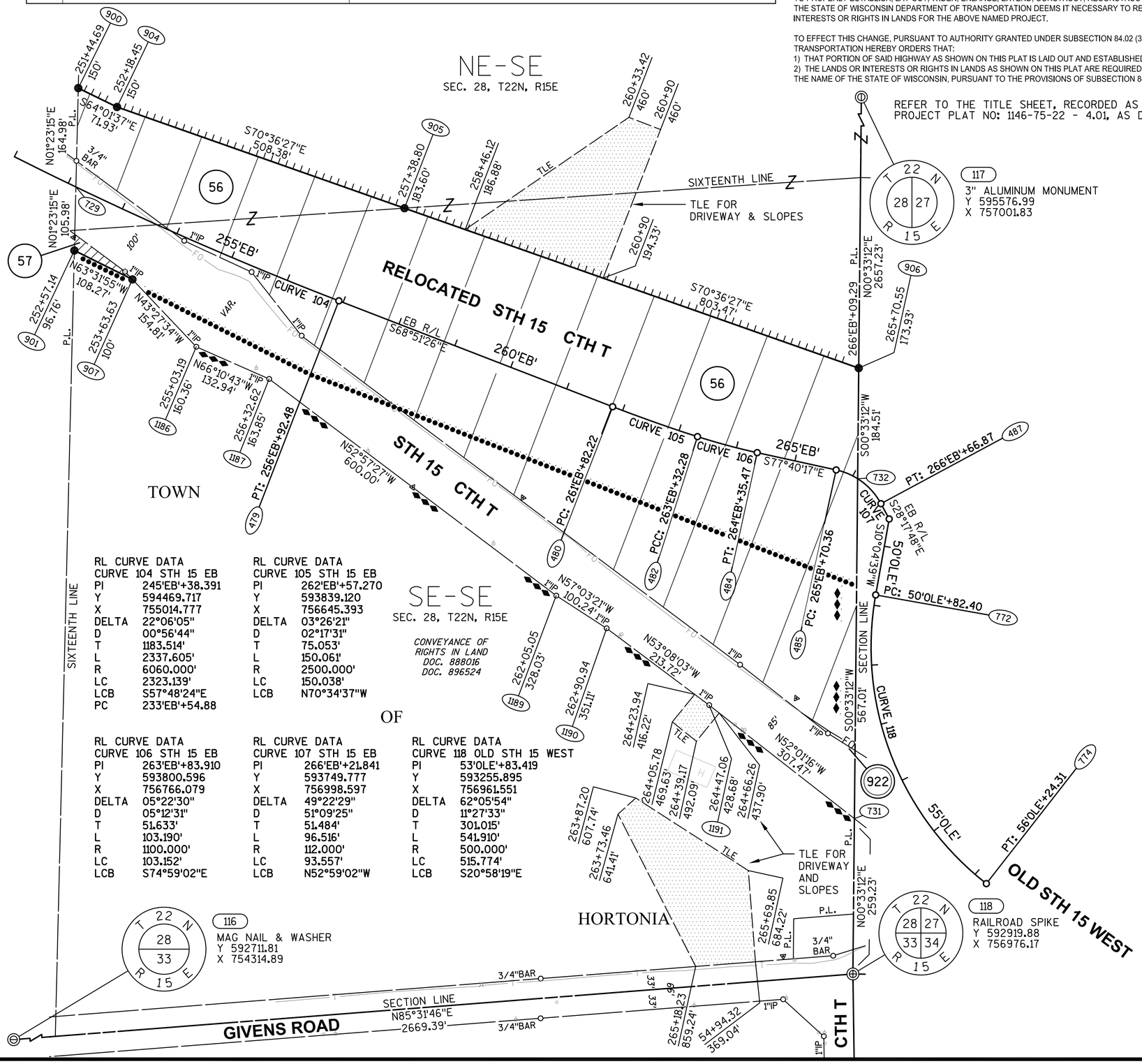
UTILITY INTERESTS REQUIRED:

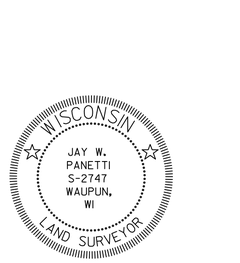
922	AT&T WISCONSIN	RELEASE OF RIGHTS

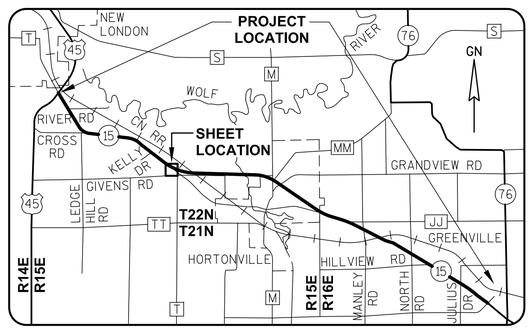
BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15 AND CTH T	TPP NO: 6430-06-00 - 4.12	2011

EXISTING ACCESS CONTROL: PROJECT 1146-1-22/F 07(19)







GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.18, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 12/28/2015 JAY W. PANETTI
PLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 1/19/2016 CURT VAN EREM
REAL ESTATE SUPERVISOR

APPROVED PLAT MAY BE ADJUSTED FOR 2019

WISCONSIN JAY W. PANETTI S-2747 WAUPUN, WI LAND SURVEYOR

040418_15.DWG REVISED: 12/28/2015

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.18

PART OF THE NE1/4-SE1/4 AND PART OF THE SE1/4-SE1/4 OF SECTION 28, T22N, R15E, ALL IN THE TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE 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 NAMED PROJECT.

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

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

Document #: **2037962**
Date: **03-16-2015** Time: **08:28 AM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP , REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.18
AMENDMENT NO:

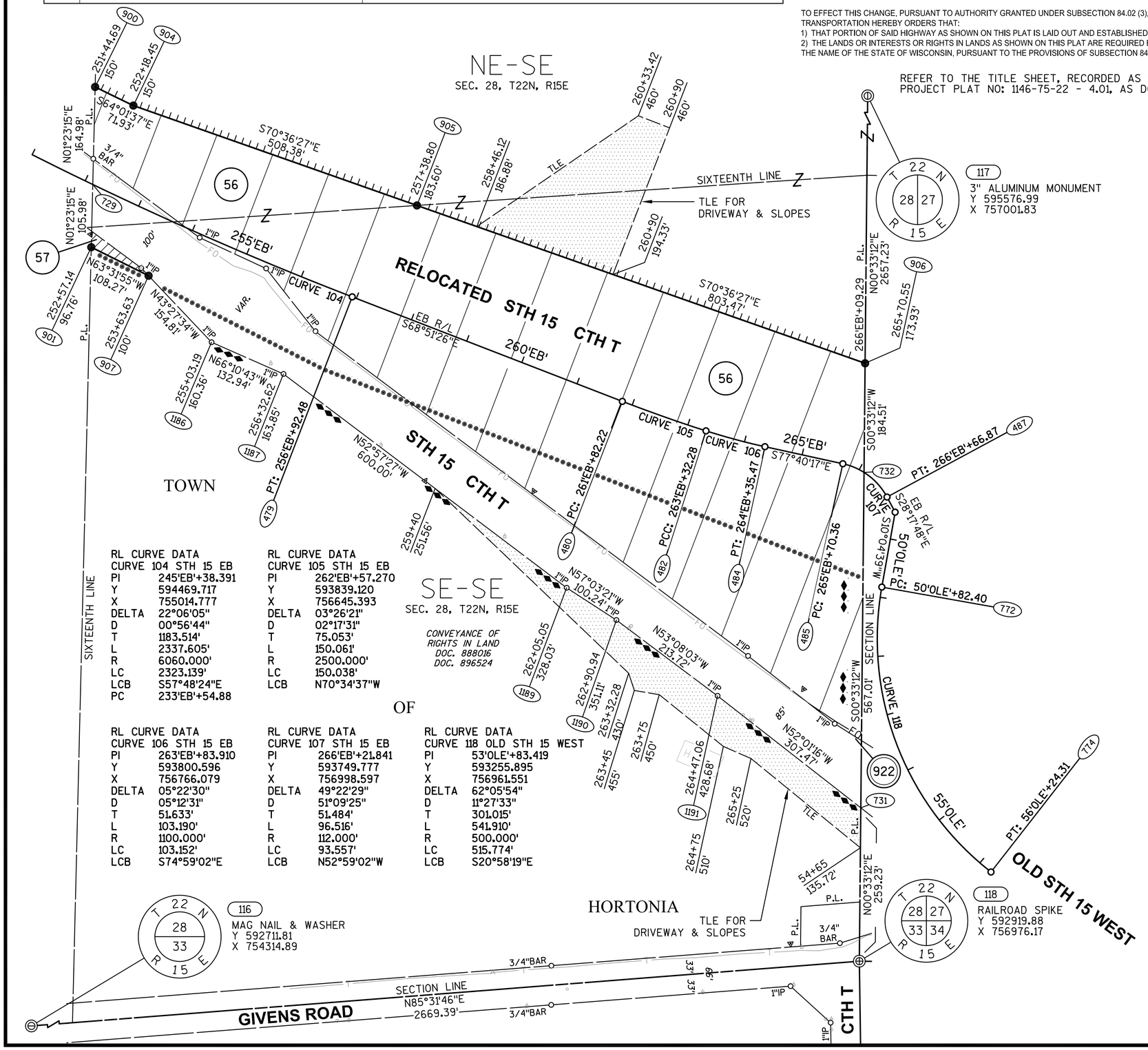
SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
56	KEVIN SAMBS	FEE, ACCESS RIGHTS, TLE	11.302	0	11.302	0.921
57	ELIZABETH GAIGG	FEE, TLE	0.034	0	0.034	0.895

UTILITY INTERESTS REQUIRED:

922	AT&T WISCONSIN	RELEASE OF RIGHTS



RL CURVE DATA

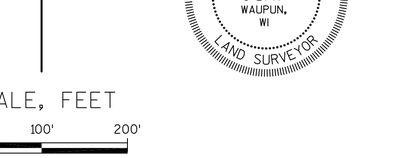
CURVE 104 STH 15 EB		CURVE 105 STH 15 EB	
PI	245'EB'+38.391	PI	262'EB'+57.270
Y	594469.717	Y	593839.120
X	755014.777	X	756645.393
DELTA	22°06'05"	DELTA	03°26'21"
D	00°56'44"	D	02°17'31"
T	1183.514'	T	75.053'
L	2337.605'	L	150.061'
R	6060.000'	R	2500.000'
LC	2323.139'	LC	150.038'
LCB	S57°48'24"E	LCB	N70°34'37"W
PC	233'EB'+54.88		

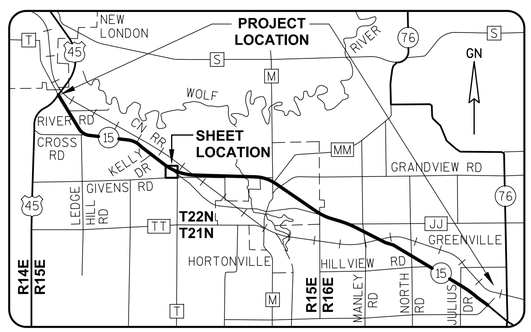
CURVE 106 STH 15 EB		CURVE 107 STH 15 EB		CURVE 118 OLD STH 15 WEST	
PI	263'EB'+83.910	PI	266'EB'+21.841	PI	53'0LE'+83.419
Y	593800.596	Y	593749.777	Y	593255.895
X	756766.079	X	756998.597	X	756961.551
DELTA	05°22'30"	DELTA	49°22'29"	DELTA	62°05'54"
D	05°12'31"	D	51°09'25"	D	11°27'33"
T	51.633'	T	51.484'	T	301.015'
L	103.190'	L	96.516'	L	541.910'
R	1100.000'	R	112.000'	R	500.000'
LC	103.152'	LC	93.557'	LC	515.774'
LCB	S74°59'02"E	LCB	N52°59'02"W	LCB	S20°58'19"E

BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15 AND CTH T	TPP NO: 6430-06-00 - 4.12	2011

EXISTING ACCESS CONTROL: PROJECT 1146-1-22/F 07(19)





GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.18, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 11/06/2014 JAY W. PANETTI
RLS S-2747, FOR GREMMER & ASSOCIATES, INC.

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

DATE 3/11/2015 CURT VAN EREM
REAL ESTATE SUPERVISOR

APPROVED PENDING FINAL ADJUSTMENTS 2019

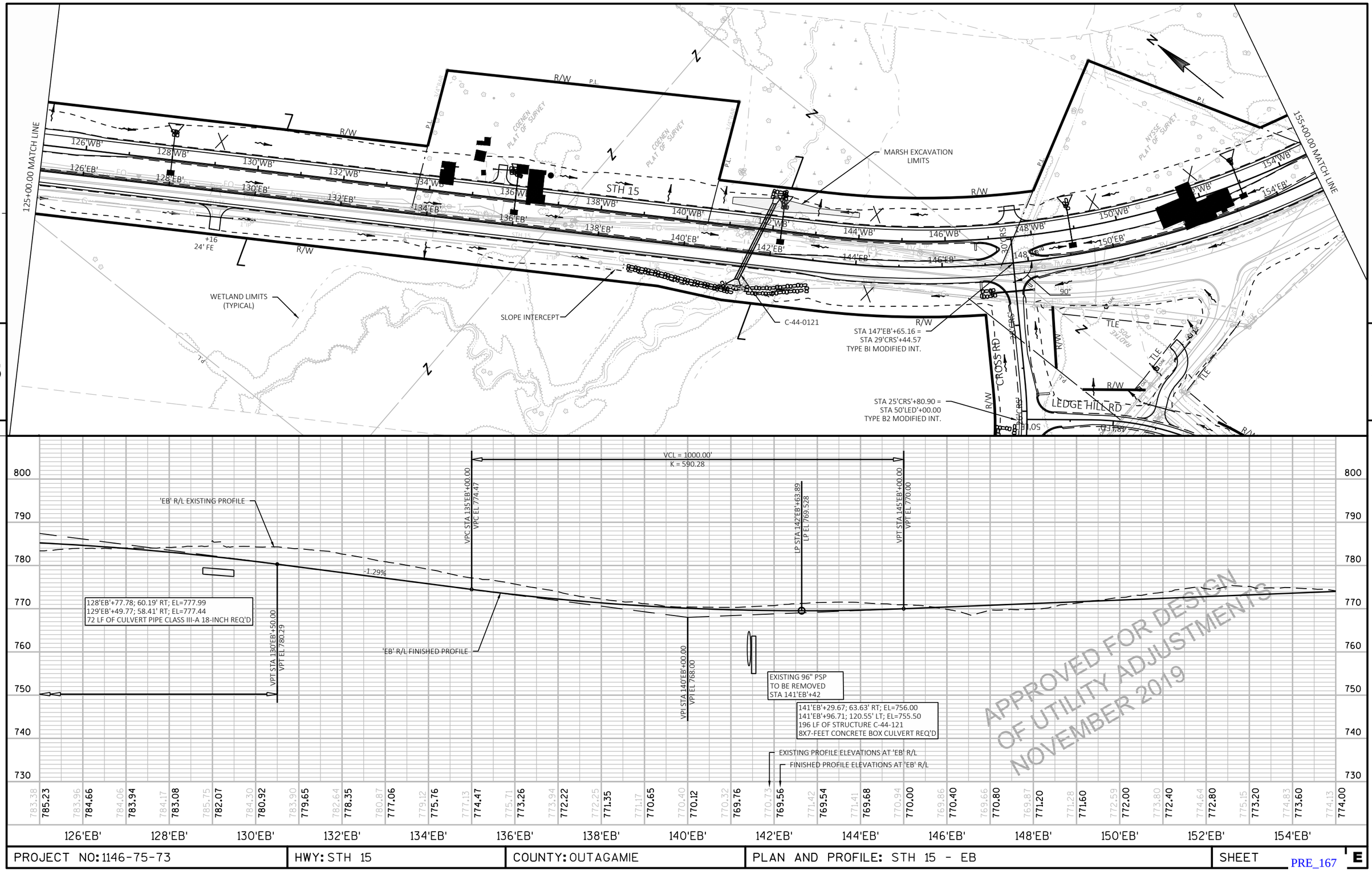
040418_15.DWG REVISED: 11/06/2014

APPRAISAL PLAT DATE:

WISCONSIN CENTRAL LTD
424'RRA'
422'RRA'
418'RRA'
416'RRA'
P.I.
STH 15
R/W
TLE
PLE
100'WB'
100'EB'
102'WB'
102'EB'
104'WB'
106'WB'
106'EB'
108'WB'
110'WB'
112'WB'
112'EB'
114'WB'
114'EB'
116'WB'
116'EB'
118'WB'
118'EB'
120'WB'
120'EB'
122'WB'
122'EB'
124'WB'
124'EB'
90°
MARSH EXCAVATION LIMITS
WETLAND LIMITS (TYPICAL)
EXCAVATION BELOW SUBGRADE LIMITS
RIVER RD
20'RVR'
22'EB'
125+00.00 MATCH LINE
2- 36" CPRC CULVERT EXTENSIONS
2 APRON ENDWALLS FOR CULVERT PIPE SALVAGED 36-INCH REQ'D
SLOPE INTERCEPT
+93
24' FE
STA AHEAD = 111+29.00
STA BACK = 111+25.48
R/W
30" CPRC
2 AEW REQ'D
+47
15' PE
STA 121'EB'+48.90 =
STA 20'RVR'+00.00
TYPE BI MODIFIED INT.
SEE DRIVEWAY DETAILS
USH 45
38'USH'
36'USH'
STH 15
5
5
BEGIN PROJECT
STA 100'EB'+49
MATCH EXISTING
SAWCUT REQUIRED
LOT 2
CSM 4413
V33 / P117
DOC. 1439632
RESCH
PLAT OF SURVEY

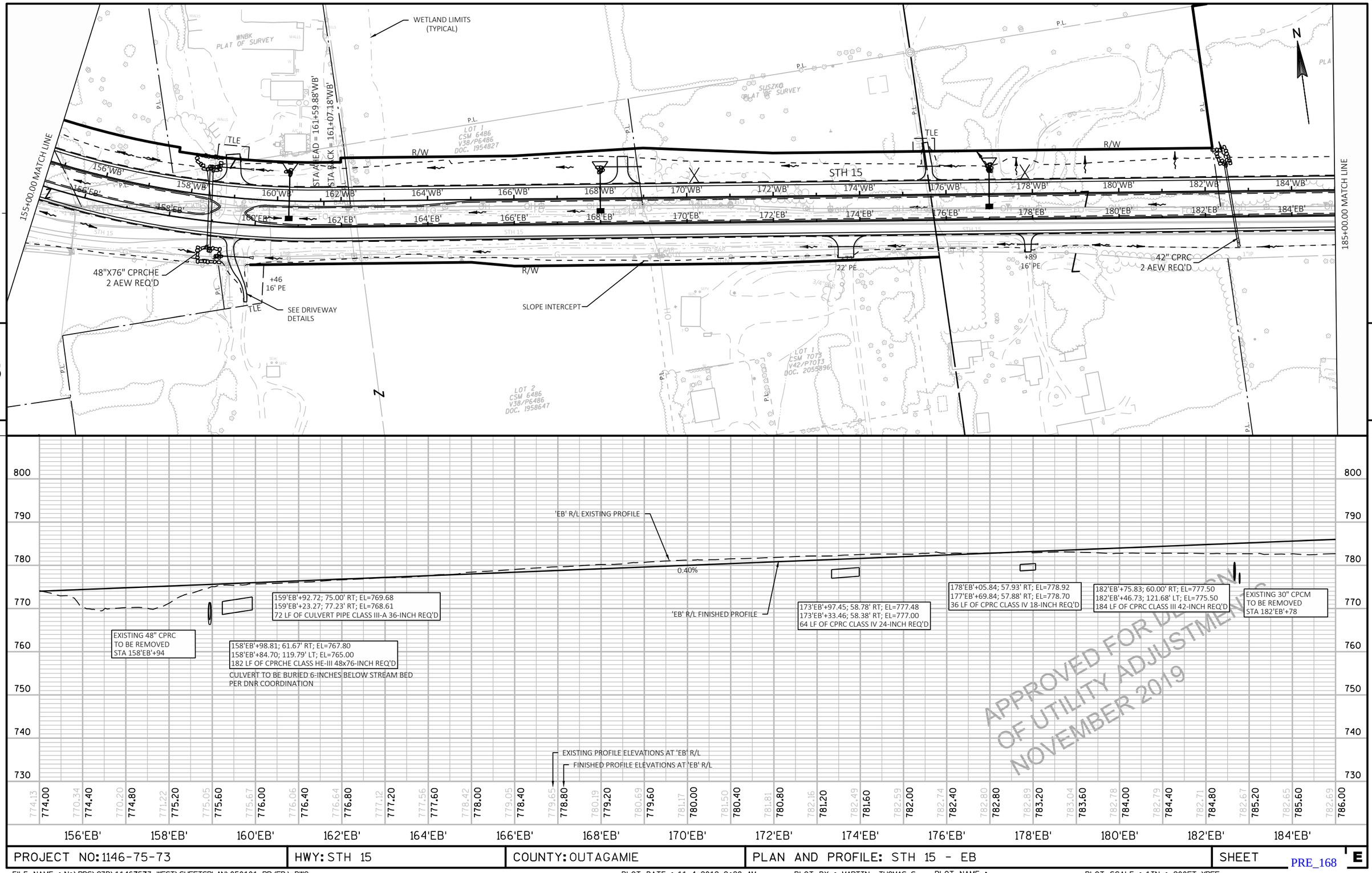
VPI STA 100'EB'+48.76
VPI EL 776.91
VPC STA 101'EB'+00.00
VPC EL 776.24
VCL = 500.00'
K = 230.55
LP STA 103'EB'+99.01
LP EL 774.303
VPT STA 106'EB'+00.00
VPT EL 775.18
VPI STA 103'EB'+50.00
VPI EL 773.00
1.30%
0.87%
'EB' R/L EXISTING PROFILE
'EB' R/L FINISHED PROFILE
EXISTING 36" CPRC
TO BE EXTENDED
EXISTING 36" CPRC
TO BE EXTENDED
101'EB'+51.72; 63.89' RT; EL=769.80
101'EB'+43.45; 41.37' RT; EL=769.67
24 LF OF CPRC CLASS IV 36-INCH REQ'D
101'EB'+61.22; 59.79' RT; EL=769.80
101'EB'+53.54; 39.17' RT; EL=769.51
22 LF OF CPRC CLASS IV 36-INCH REQ'D
113'EB'+27.36; 55.00' RT; EL=778.73
112'EB'+55.36; 55.82' RT; EL=777.20
72 LF OF CULVERT PIPE CLASS III-A 18-INCH REQ'D
VPC STA 115'EB'+50.00
VPC EL 783.46
EXISTING 24" CPCM
TO BE REMOVED
STA 118'EB'+47
118'EB'+35.19; 72.68' RT; EL=776.48
118'EB'+35.21; 147.32' LT; EL=771.00
220 LF OF CPRC CLASS III 30-INCH REQ'D
HP STA 121'EB'+53.76
HP EL 786.09
VPI STA 123'EB'+00.00
VPI EL 790.00
VCL = 1500.00'
K = 692.55
EXISTING PROFILE ELEVATIONS AT 'EB' R/L
FINISHED PROFILE ELEVATIONS AT 'EB' R/L

| | | |



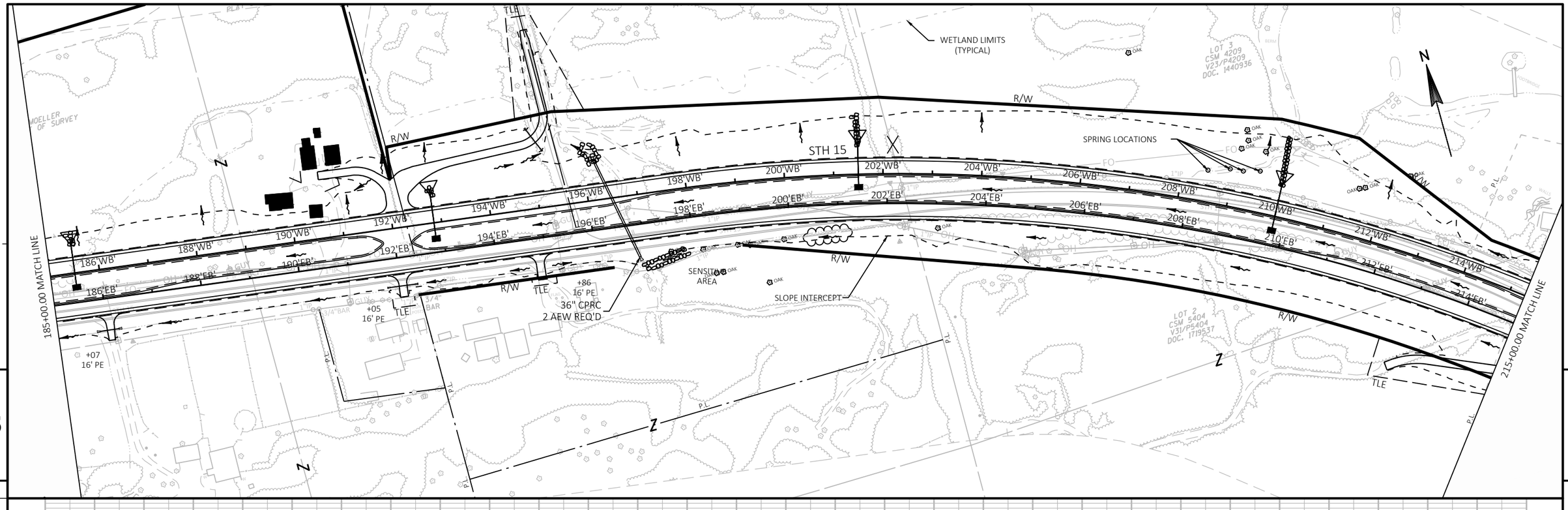
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE: STH 15 - EB	SHEET E

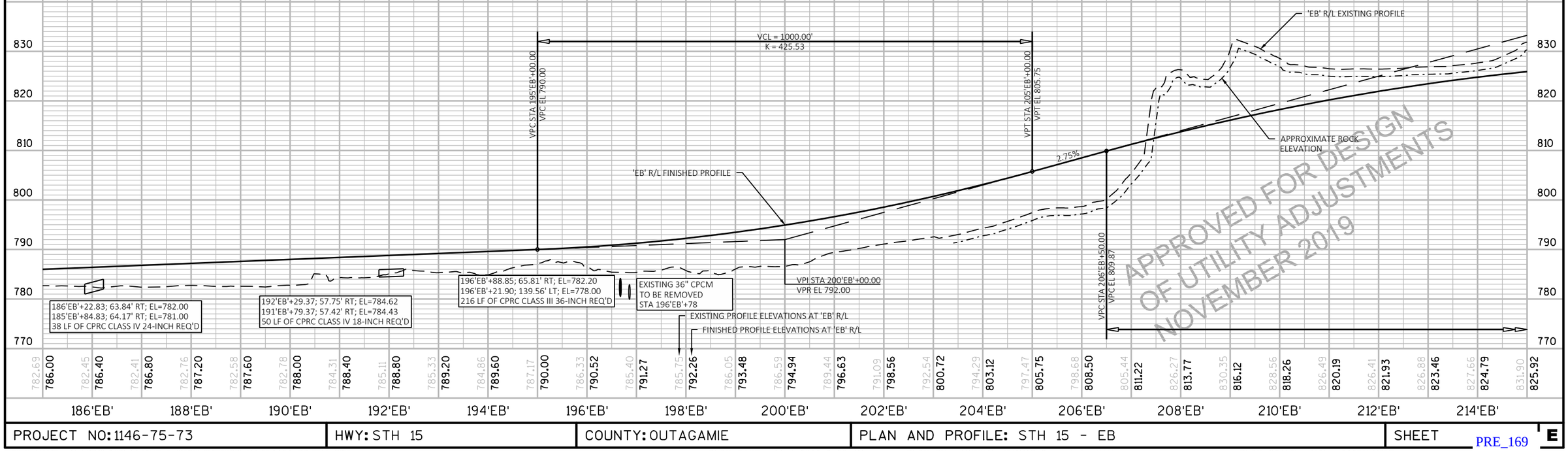
PRE_167



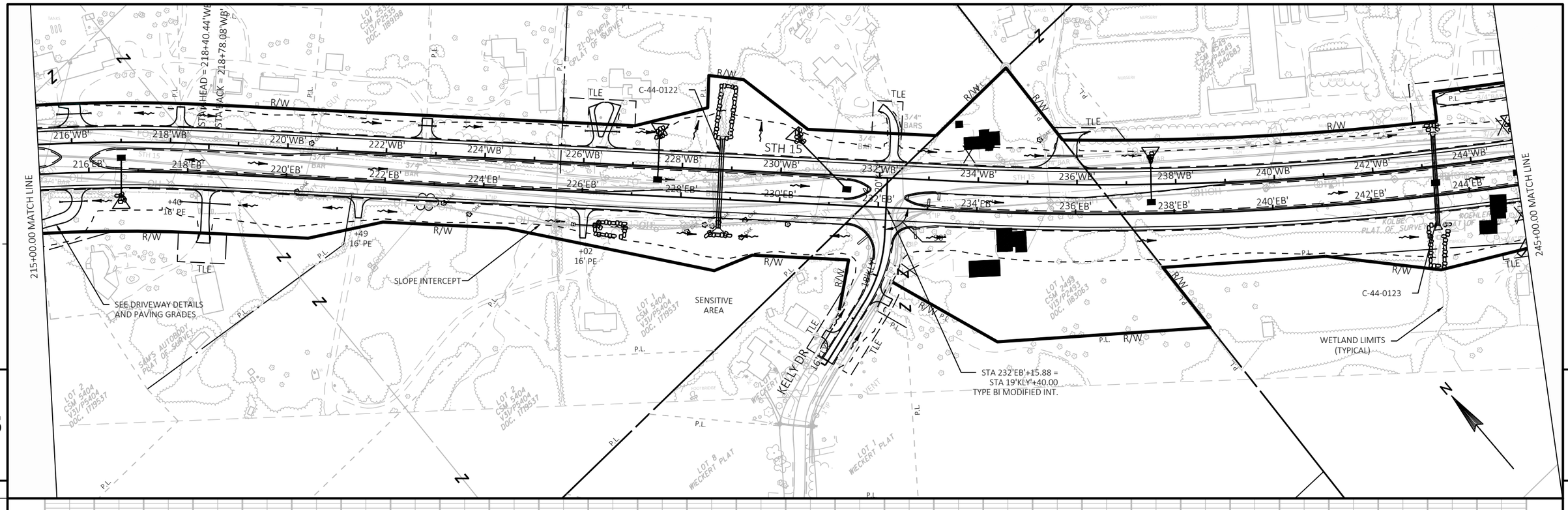
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE: STH 15 - EB	SHEET E

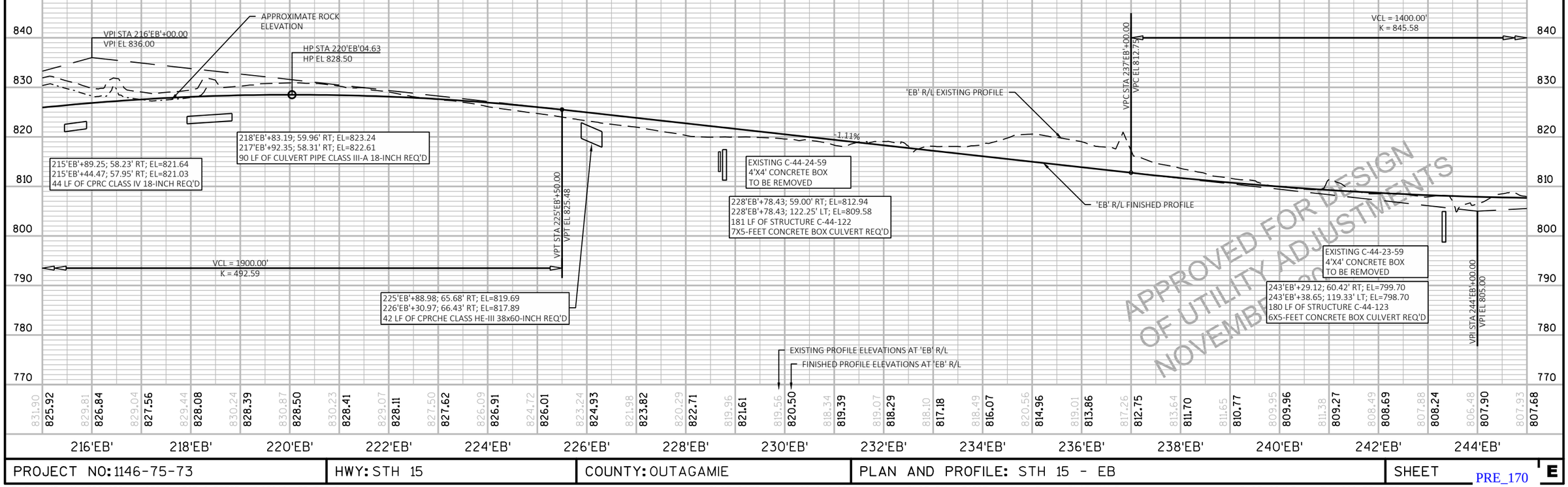
PRE_168





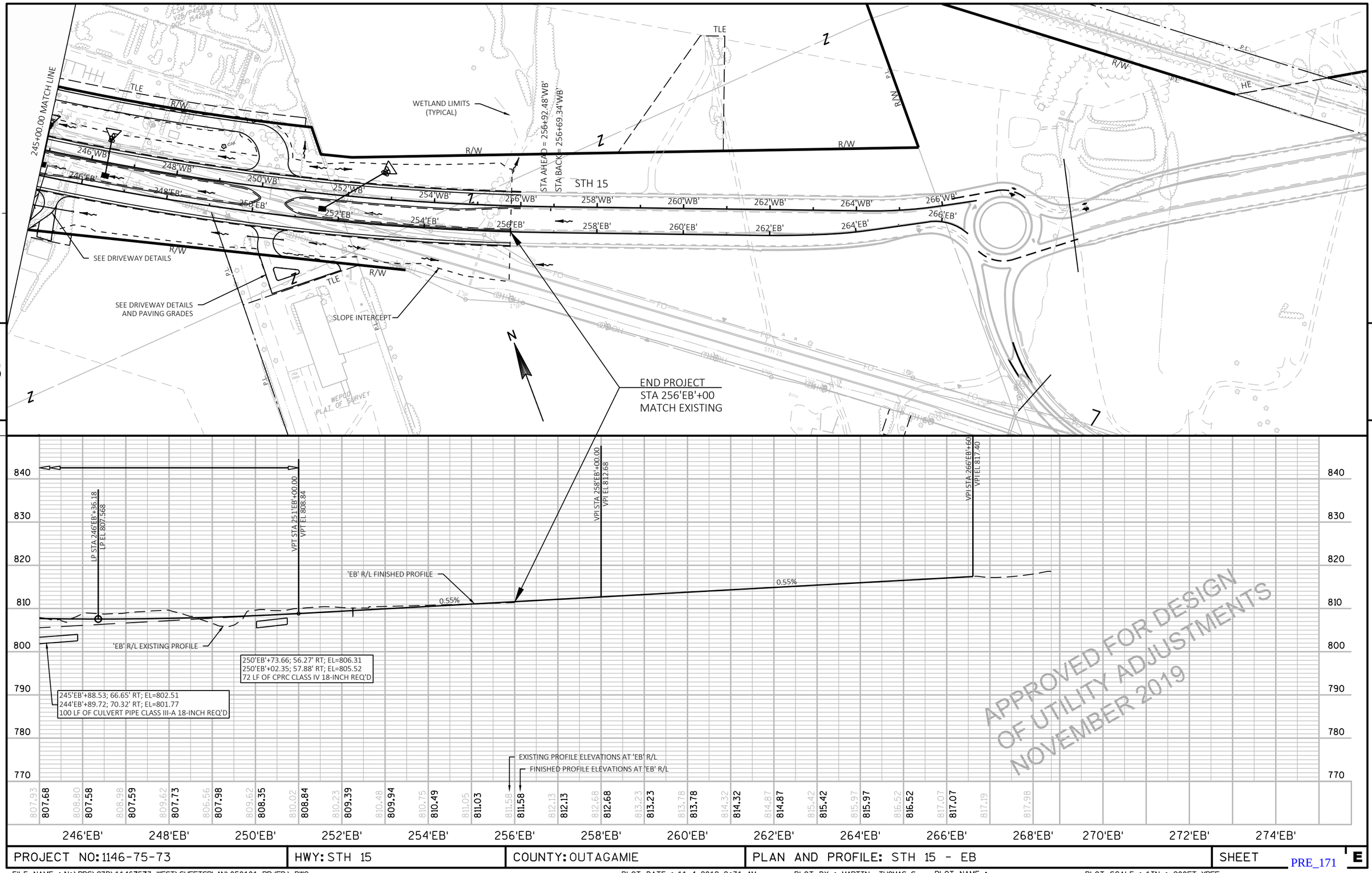
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE: STH 15 - EB	SHEET E



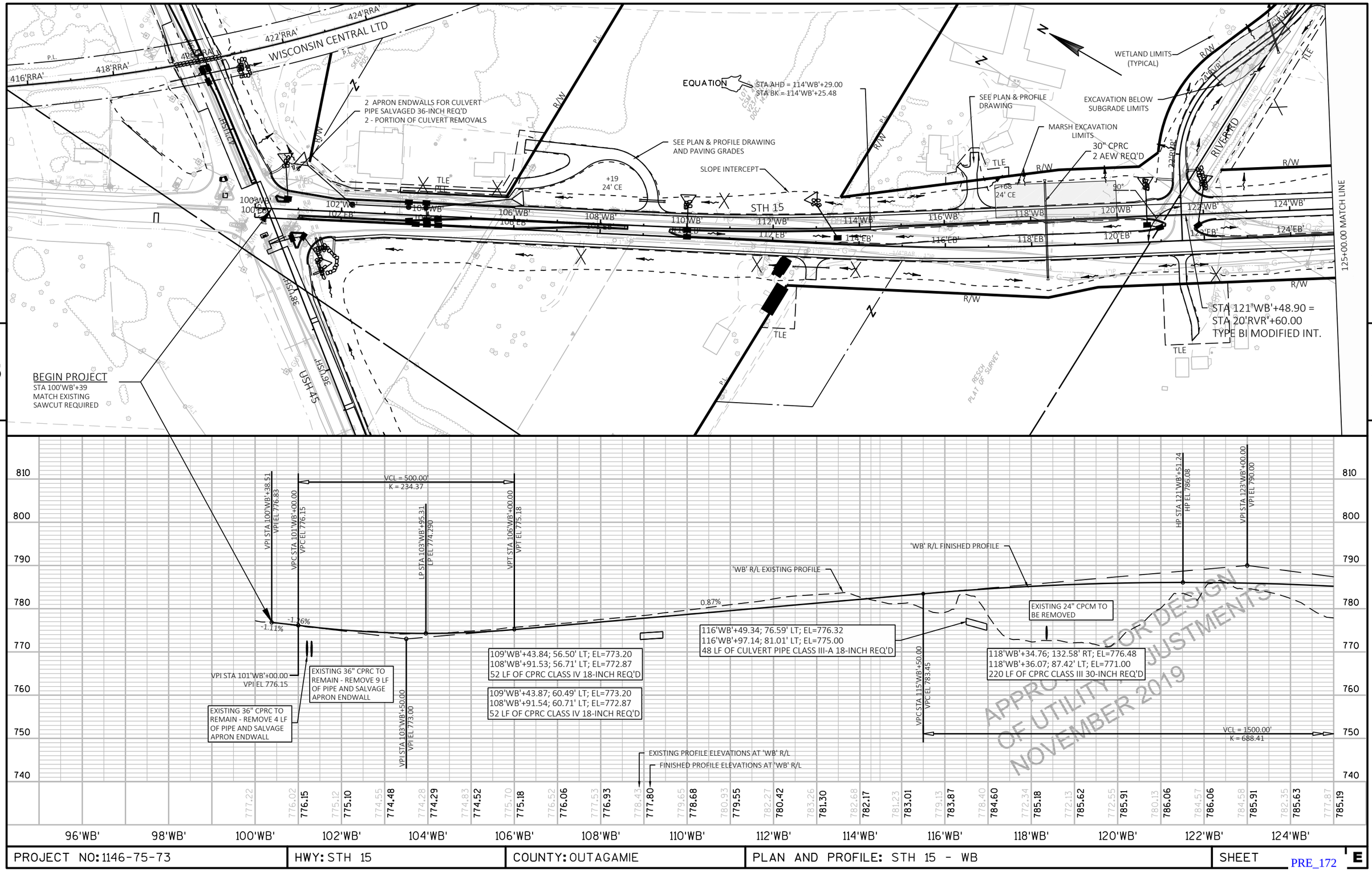


APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 20

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE: STH 15 - EB	SHEET E



PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE: STH 15 - EB	SHEET E



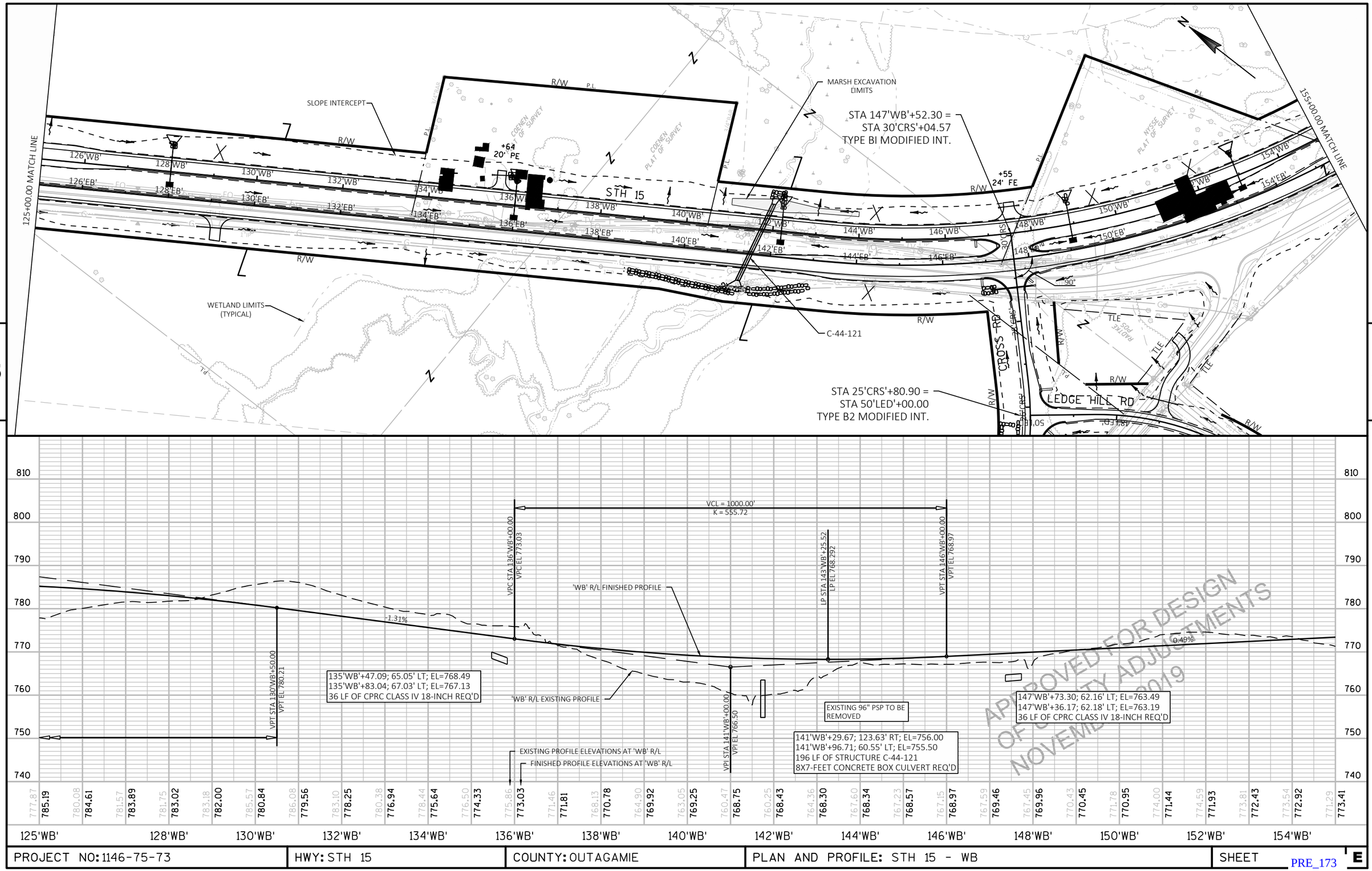
5

5

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE: STH 15 - WB	SHEET E

PRE_172

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\050107_PP(WB).DWG
LAYOUT NAME - 050107_PP(WB)
PLOT DATE : 11/4/2019 9:35 AM
PLOT BY : MARTIN, THOMAS S
PLOT NAME :
PLOT SCALE : 1" = 200'_XREF
WISDOT/CADDS SHEET 44



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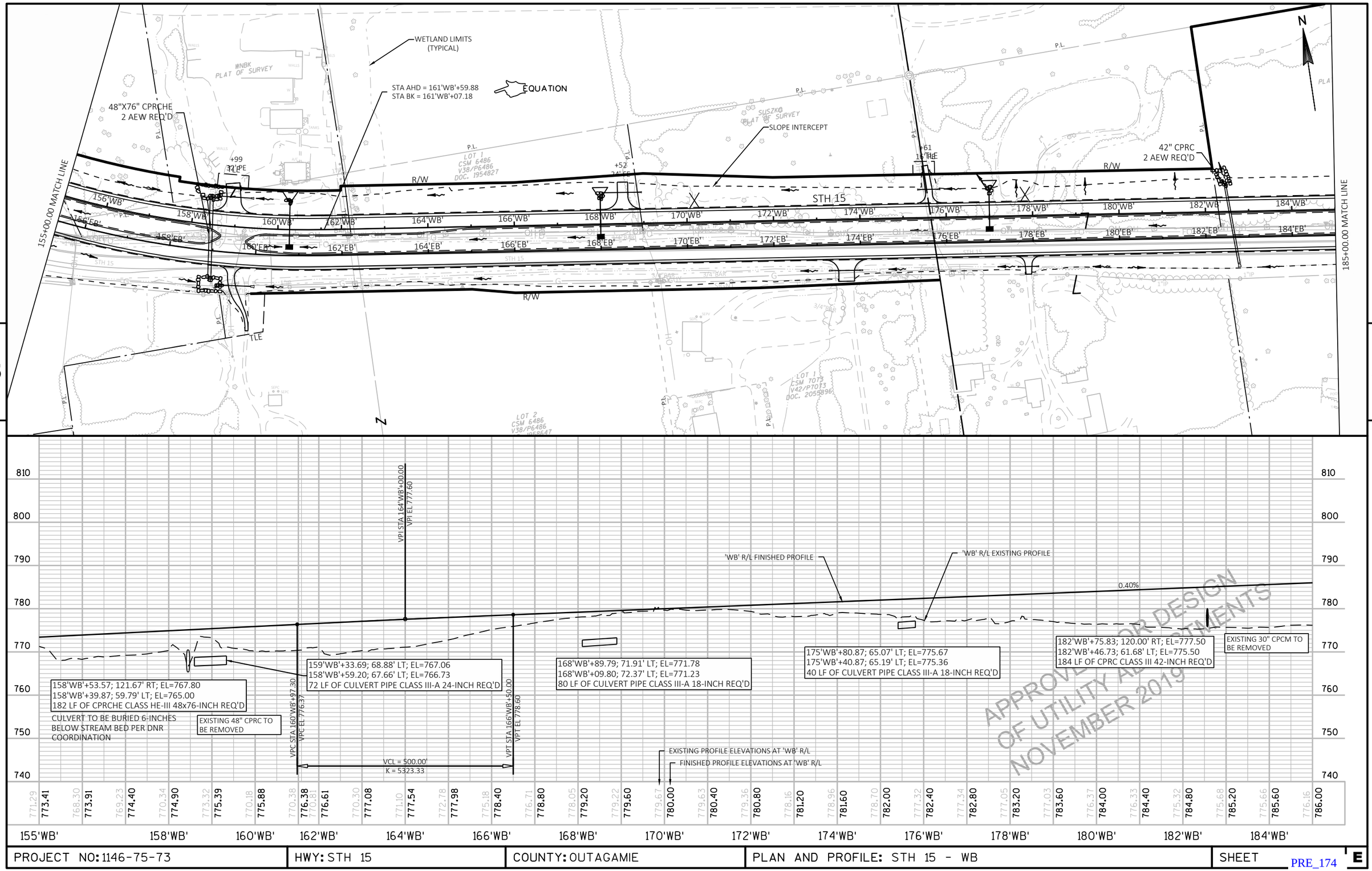
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE: STH 15 - WB	SHEET E

PRE_173



5 5

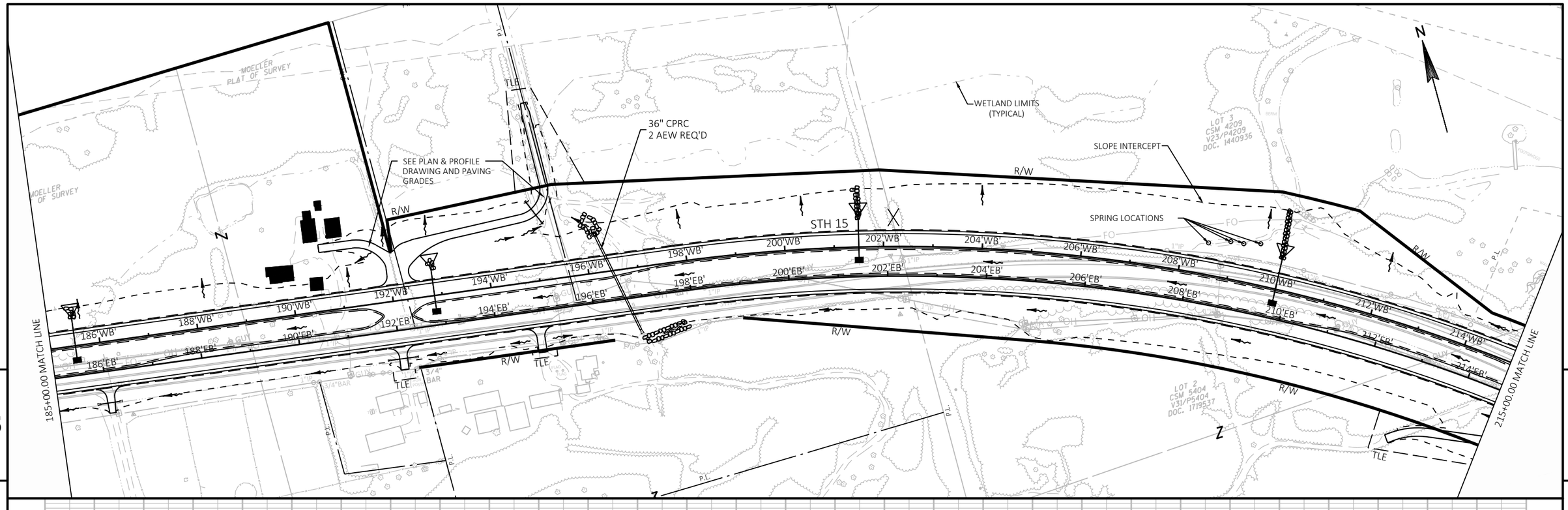
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE: STH 15 - WB	SHEET E

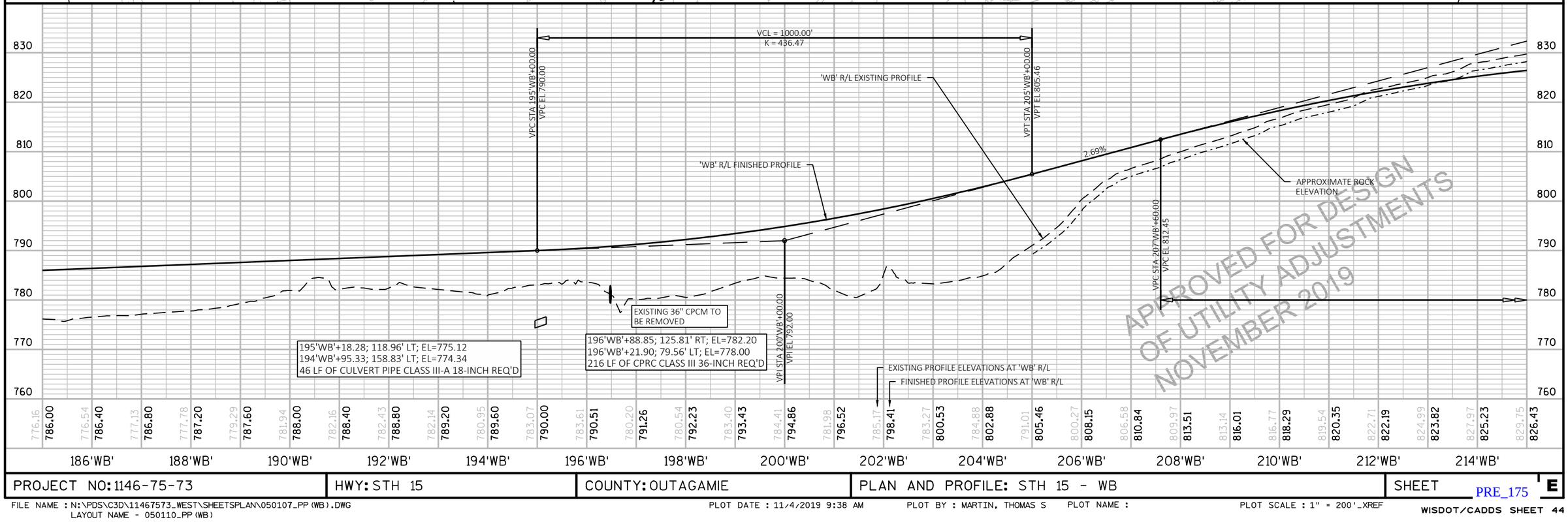
PRE_174

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\050107_PP(WB).DWG
LAYOUT NAME - 050109_PP(WB)

PLOT DATE : 11/4/2019 9:37 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1" = 200'_XREF

WISDOT/CADDS SHEET 44



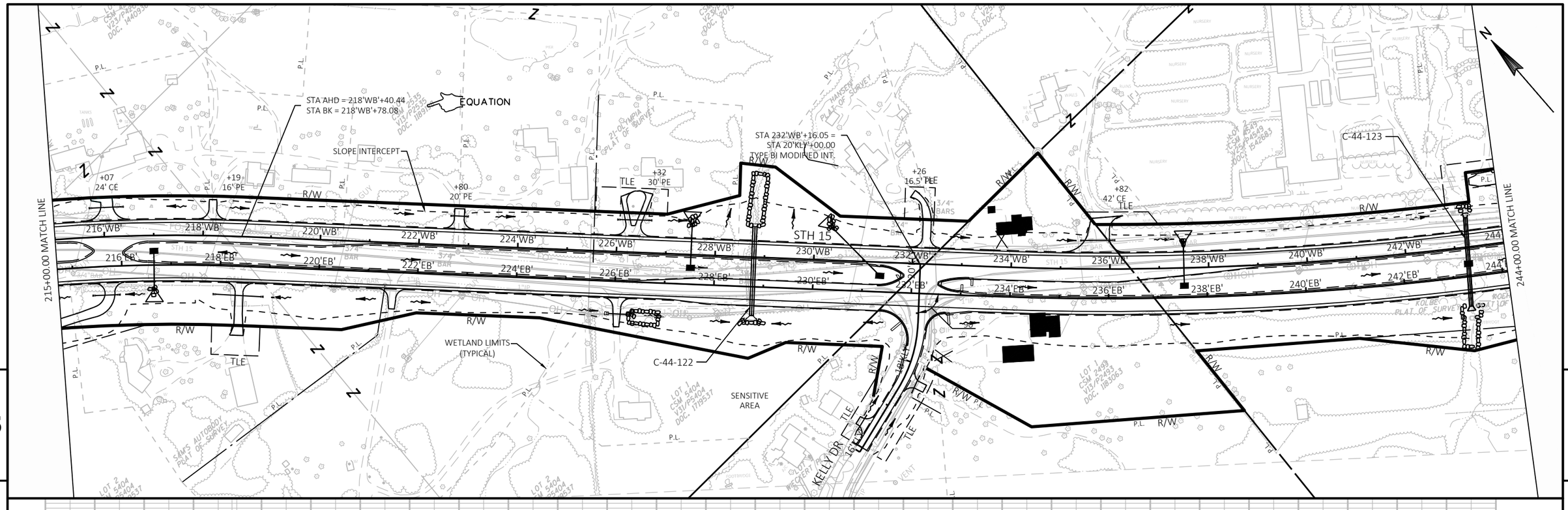


PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE: STH 15 - WB	SHEET E

PRE_175

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\050107_PP(WB).DWG
LAYOUT NAME - 050110_PP(WB)

PLOT DATE : 11/4/2019 9:38 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1" = 200'_XREF



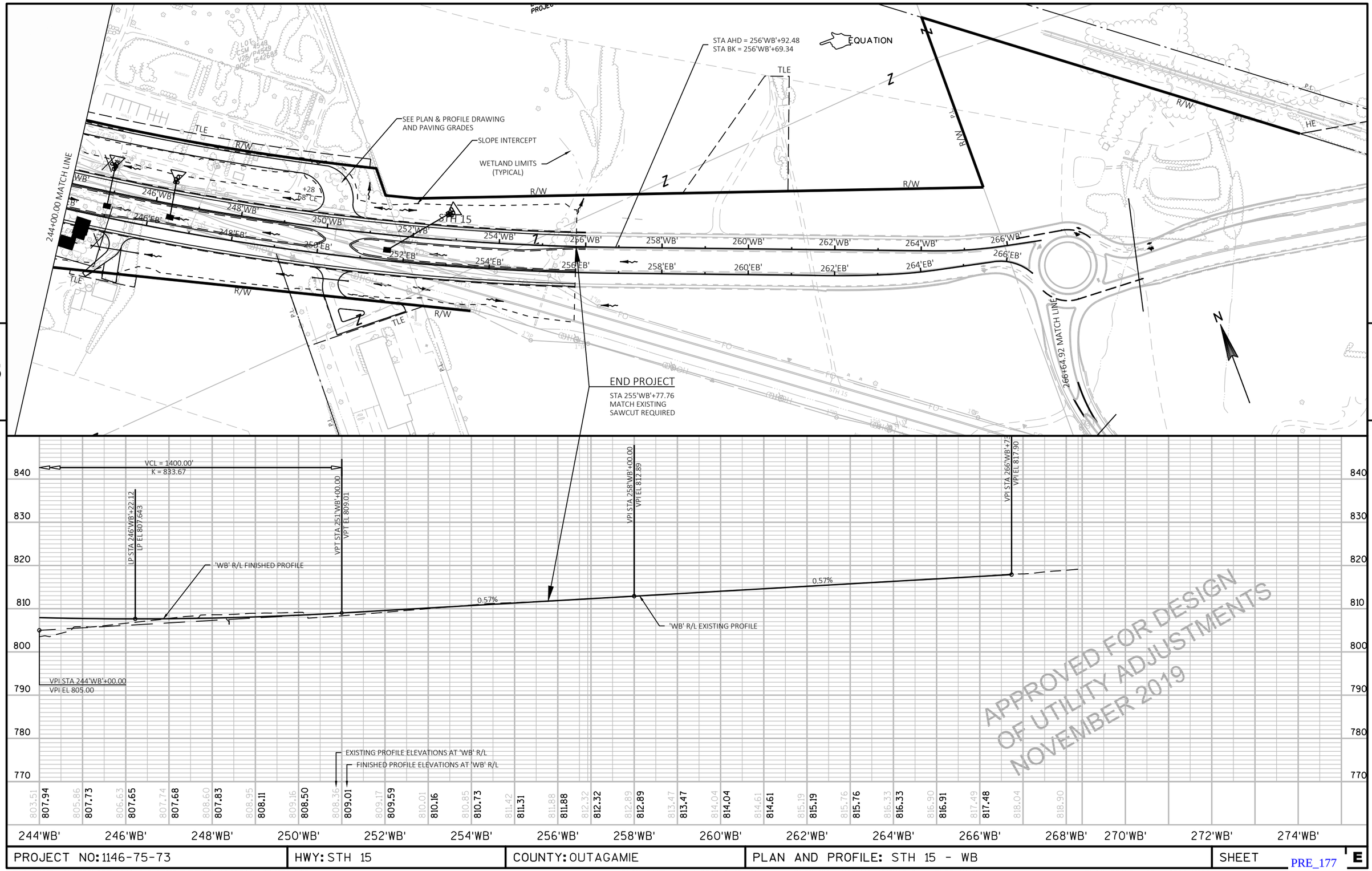
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE: STH 15 - WB	SHEET E

PRE_176

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\050107_PP(WB).DWG
LAYOUT NAME - 050111_PP(WB)

PLOT DATE : 11/4/2019 4:16 PM PLOT BY : FARRELL, ALAN E PLOT NAME : PLOT SCALE : 1" = 200'_XREF

WISDOT/CADDS SHEET 44



PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE: STH 15 - WB	SHEET E

PRE_177

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\050107_PP(WB).DWG
LAYOUT NAME - 050112_PP(WB)

PLOT DATE : 11/4/2019 9:40 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1" = 200'_XREF

SENSITIVE AREA

USH 45

CTH T

STH 15

WISCONSIN CENTRAL LTD

416'RRA'

418'RRA'

422'RRA'

424'RRA'

30'USH'

32'USH'

34'USH'

36'USH'

38'USH'

40'USH'

42'USH'

46'USH'

48'USH'

50'USH'

AT GRADE RAILROAD CROSSING

36" CPRC CULVERT EXTENSION
APRON ENDWALLS FOR CULVERT
PIPE SALVAGED 36-INCH REQ'D

66°

SLOPE INTERCEPT

SLOPE INTERCEPT

WETLAND LIMITS
(TYPICAL)

2-29"X45" CPRCHE CULVERT EXTENSIONS
2 APRON ENDWALLS FOR CPRCHE 29X45-INCH REQ'D

BEGIN CONSTRUCTION
STA 33'USH'+66
MATCH EXISTING
SAWCUT REQUIRED

END CONSTRUCTION
STA 50'USH'+50
MATCH EXISTING
SAWCUT REQUIRED

5

5

VPI STA 40'USH'+66.64
VPI EL 776.42

VPC STA 42'USH'+85.00
VPC EL 771.73

VCL = 80.00'
K = 51.66

VPT STA 43'USH'+65.00
VPT EL 770.63

VPI STA 43'USH'+69.50
VPI EL 770.60

VPI STA 43'USH'+74.60
VPI EL 770.58

VPI STA 44'USH'+15.00
VPI EL 770.34

VCL = 200.00'
K = 149.00

VPC STA 46'USH'+00.00
VPC EL 766.64

VPT STA 48'USH'+00.00
VPT EL 763.99

VPI STA 50'USH'+50.00
VPI EL 762.35

'USH' R/L EXISTING PROFILE

-2.15%

-2.00%

-0.65%

'USH' R/L PROPOSED PROFILE

EXISTING 36" CPRC
TO REMAIN WITH
EXTENSION

38'USH'+18.49; 45.17' RT; EL=770.38
38'USH'+18.70; 63.17' RT; EL=770.32
18 LF OF CPRC CLASS IV 36-INCH REQ'D

EXISTING 29"X45" CPRCHE TO
REMAIN WITH EXTENSION

43'USH'+18.95; 59.22' RT; EL=763.06
43'USH'+17.75; 65.10' RT; EL=762.96
6 LF OF CPRCHE CLASS HE-III 29x45-INCH REQ'D

EXISTING 29"X45" CPRCHE TO
REMAIN WITH EXTENSION

43'USH'+26.65; 61.07' RT; EL=763.07
43'USH'+25.45; 66.95' RT; EL=762.99
6 LF OF CPRCHE CLASS HE-III 29x45-INCH REQ'D

VPI STA 43'USH'+25.00
VPI EL 770.87

VPC STA 43'USH'+75.00
VPC EL 770.58

VPT STA 44'USH'+55.00
VPT EL 769.54

VCL = 80.00'
K = 57.39

VPI STA 47'USH'+00.00
VPI EL 764.64

EXISTING 54" CPRC
TO REMAIN

EXISTING 54" CPRC
TO REMAIN

EXISTING PROFILE ELEVATIONS AT 'USH' R/L

FINISHED PROFILE ELEVATIONS AT 'USH' R/L

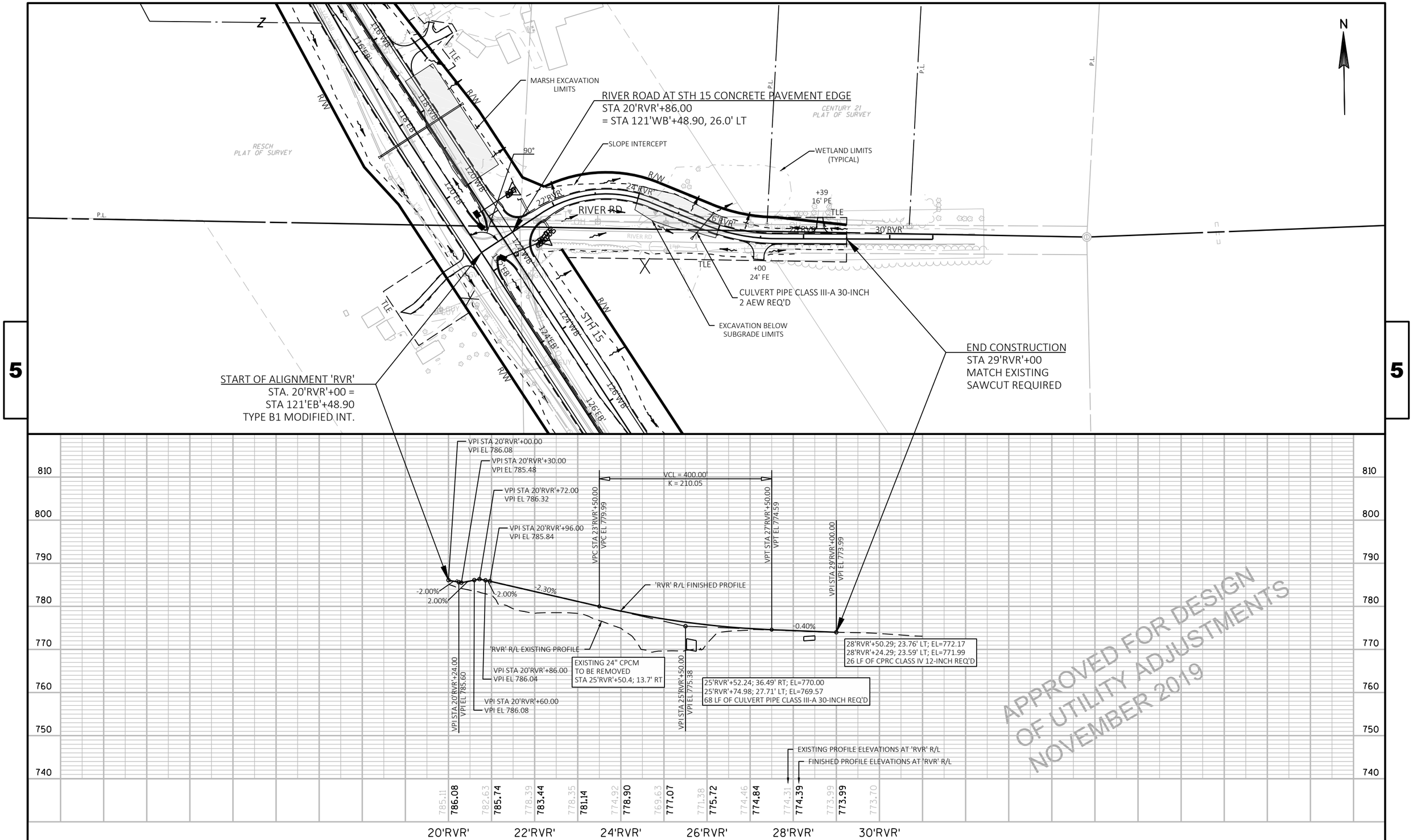
APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

810	800	790	780	770	760	750	740

28'USH'	30'USH'	32'USH'	34'USH'	36'USH'	38'USH'	40'USH'	42'USH'	44'USH'	46'USH'	48'USH'	50'USH'	52'USH'
801.17	798.45	795.99	793.71	790.96	788.43	786.27	784.59	782.55	780.26	778.72	777.68	776.90	775.65	775.70	773.52	773.55	771.35	771.43	770.07	770.37	768.33	768.64	766.76	766.64	765.35	764.98	764.12	763.99	763.34	763.34	762.70	762.68	762.38

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE: USH 45	SHEET E

PRE_178



PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE: RIVER ROAD	SHEET E

PRE_179

CROSS ROAD AT STH 15 CONCRETE PAVEMENT EDGE
STA 29'CRS'+18.57
= STA 147'EB'+65.16, 26.0' RT

CULVERT PIPE CLASS III-A 24-INCH
2 AEW REQ'D

CPRCHE CLASS HE-IV 43X68-INCH
2 AEW REQ'D

CROSS RD

14'CRS' 16'CRS' 18'CRS' 20'CRS' 22'CRS' 24'CRS' 26'CRS' 28'CRS' 30'CRS'

R/W TLE

+83
16' PE

+93
16' PE

SLOPE INTERCEPT

WETLAND LIMITS
(TYPICAL)

R/W LEDGE HILL RD

STH 15

BEGIN CONSTRUCTION
STA 17'CRS'+00
MATCH EXISTING
SAWCUT REQUIRED

END OF ALIGNMENT 'CRS'
STA 30'CRS'+04.57 =
STA 147'WB'+52.30
TYPE B1 MODIFIED INT.

VPI STA 16'CRS'+99.97
VPI EL 787.73

HP STA 18'CRS'+91.48
HP EL 788.16

VPI STA 21'CRS'+49.97
VPI EL 789.07

VPI STA 29'CRS'+18.54
VPI EL 772.44

VPI STA 29'CRS'+08.54
VPI EL 772.97

VPI STA 28'CRS'+49.97
VPI EL 775.17

VPI STA 29'CRS'+44.54
VPI EL 771.06

0.30%

'CRS' ℄ FINISHED PROFILE

'CRS' ℄ EXISTING PROFILE

-1.99%

-3.76%

-5.30%

19'CRS'+73.36; 38.07' LT; EL=782.51
20'CRS'+28.91; 37.29' LT; EL=782.23
54 LF OF CPRC CLASS IV 18-INCH REQ'D

22'CRS'+81.27; 43.20' RT; EL=782.44
23'CRS'+11.45; 46.68' RT; EL=782.00
32 LF OF CULVERT PIPE CLASS III-A 18-INCH REQ'D

25'CRS'+02.80; 41.30' RT; EL=775.93
25'CRS'+02.84; 22.70' LT; EL=775.41
64 LF OF CPRCHE CLASS HE-IV 43X68-INCH REQ'D

EXISTING 20"X28" CPCMPA
TO BE REMOVED
STA 26'CRS'+20.94; 276.24' RT

VPC STA 17'CRS'+99.97
VPC EL 788.03

VPT STA 24'CRS'+99.97
VPT EL 782.12

VCL = 700.00'
K = 306.52

VPC STA 27'CRS'+99.97
VPC EL 776.17

VPT STA 28'CRS'+99.97
VPT EL 773.29

VCL = 100.00'
K = 56.20

28'CRS'+78.69; 36.81' RT; EL=768.40
28'CRS'+79.40; 51.19' LT; EL=767.72
88 LF OF CULVERT PIPE CLASS III-A 24-INCH REQ'D

EXISTING 24" CPCM
TO BE REMOVED
STA 28'CRS'+04.42;447.41 RT

EXISTING PROFILE ELEVATIONS AT 'CRS' ℄
FINISHED PROFILE ELEVATIONS AT 'CRS' ℄

787.63 787.54 787.30 787.51 787.73 **787.73** 787.94 **788.03** 788.11 **788.16** 788.08 **787.97** 787.65 **787.45** 784.94 **786.61** 784.78 **785.44** 783.13 **783.94** 780.50 **782.12** 778.44 **780.14** 776.86 **778.15** 774.21 **776.17** 773.65 **773.29** 767.93

APPROVED FOR DESIGN
OF SURVEY ADJUSTMENTS
PUBLIC USE 2019

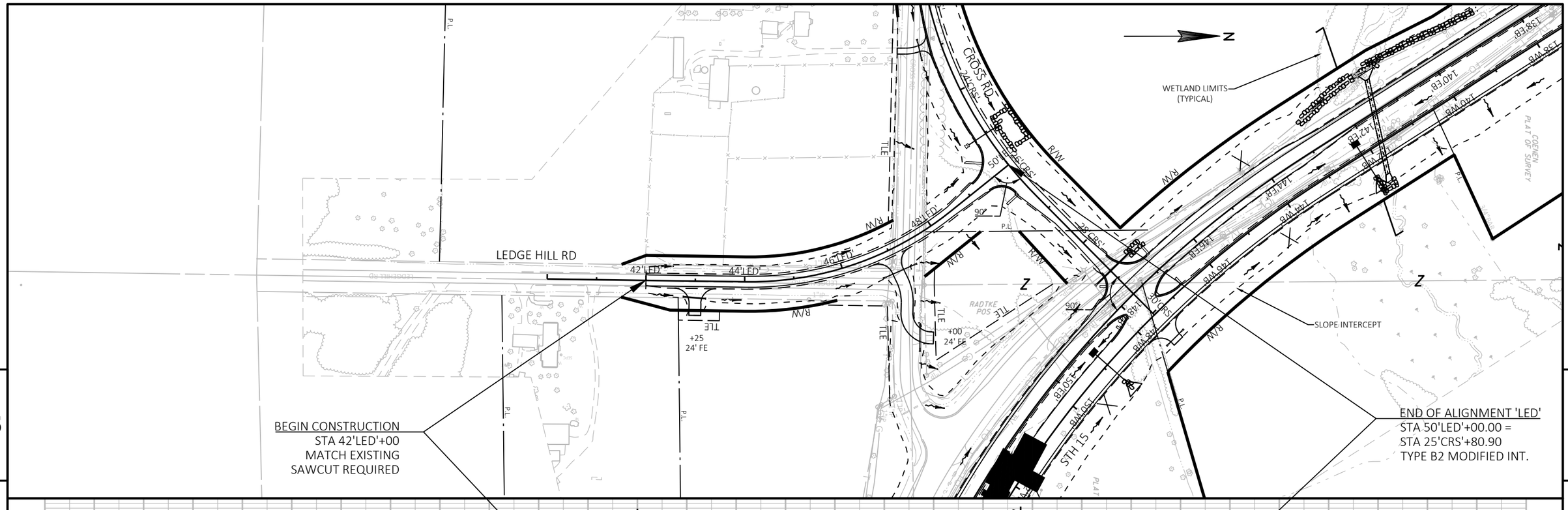
PROJECT NO: 1146-75-73 | HWY: STH 15 | COUNTY: OUTAGAMIE | PLAN AND PROFILE: CROSS ROAD | SHEET E

PRE_180

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\050115_PP(CRS).DWG
LAYOUT NAME - 050115_PP(CRS)

PLOT DATE : 10/31/2019 1:41 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1:200_XREF

WISDOT/CADDS SHEET 44

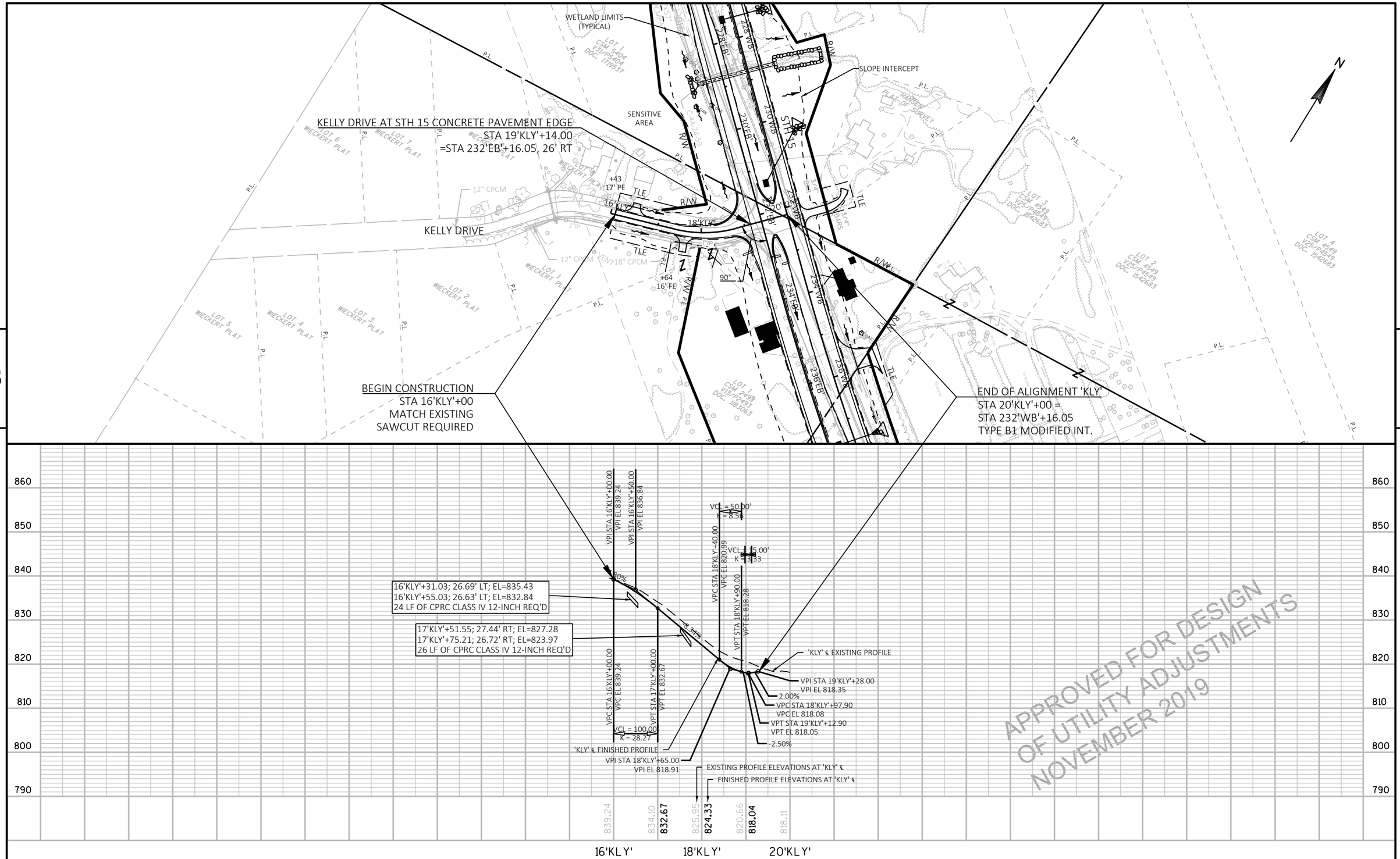


PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE: LEDGE HILL ROAD	SHEET E

PRE_181

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\050116_PP(LED).DWG
LAYOUT NAME - 050116_PP(LED)

PLOT DATE : 10/31/2019 1:44 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1:200_XREF



PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE: KELLY DRIVE	SHEET E

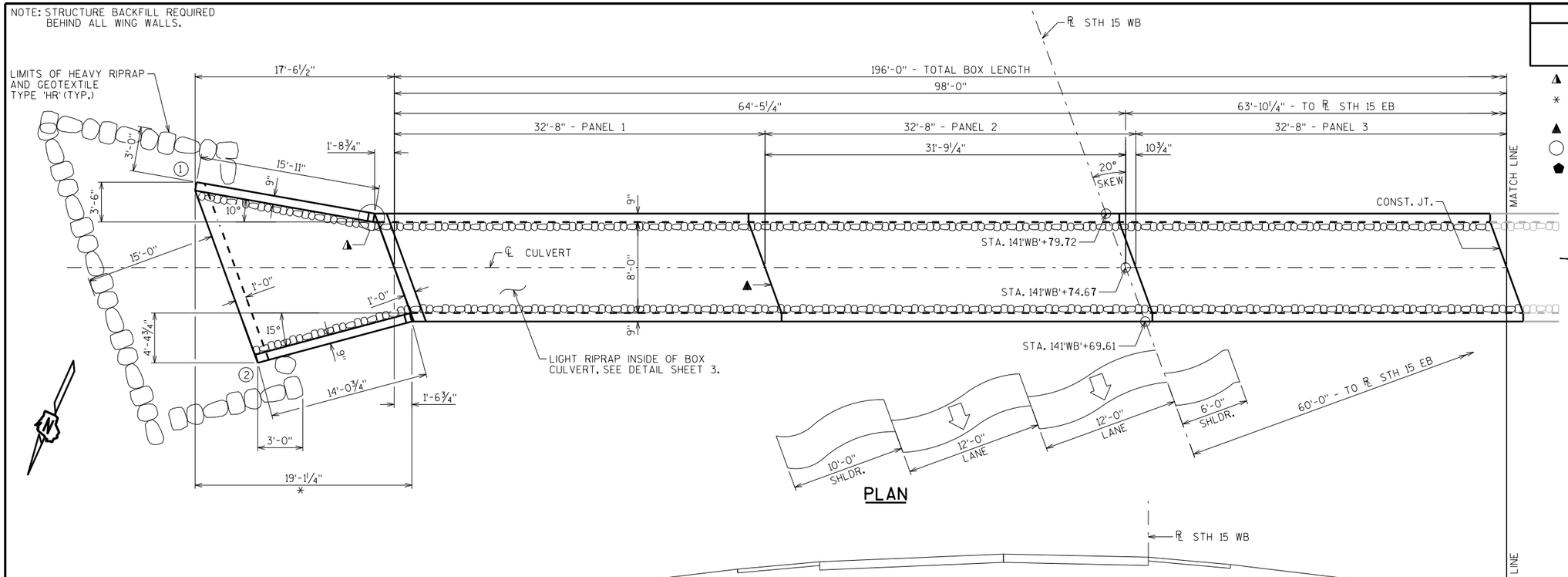
PRE_182

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\050117_PP(KLY).DWG
LAYOUT NAME - 050117_PP(KLY)

PLOT DATE : 11/5/2019 10:00 AM PLOT BY : MALUEG, RYAN P PLOT NAME : PLOT SCALE : 1IN = 200FT_XREF

WISDOT/CADDS SHEET 44

NOTE: STRUCTURE BACKFILL REQUIRED BEHIND ALL WING WALLS.



STATE PROJECT NUMBER

1146-75-73

- ▲ CORNER DETAILS (SEE SHT 6)
- ✳ BUILD APRON AND END OF BOX LEVEL
- ▲ VERT. CONST. JOINT (TYP.)
- ◯ INDICATES WING NUMBER
- ⬟ LIGHT RIPRAP, SEE DETAIL SHEET 3

UNNAMED TRIBUTARY TO WOLF RIVER

DESIGN DATA

LIVE LOAD:
DESIGN LOADING: 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 A 5.0 FT. - 7.0 FT. OF FILL.

MATERIAL PROPERTIES:
CONCRETE MASONRY ——— f'c = 3,500 P.S.I.
BAR STEEL REINFORCEMENT ——— fy = 60,000 P.S.I.

TRAFFIC VOLUME

STH 15
ADT = 20,000 (2040)
R.D.S. = 60 M.P.H.

HYDRAULIC DATA

100 YEAR FREQUENCY
Q_{100} = 325 C.F.S.
VEL. = 10.94 F.P.S.
$HW._{100}$ = EL. 764.81
DRAINAGE AREA = 2.4 SQ. MI.
ROADWAY OVERTOPPING = N/A

2 YEAR FREQUENCY
Q_2 = 55 C.F.S.
$HW._2$ = EL. 759.81

STRUCTURE DESIGN CONTACTS:

EMILY KUEHNE	(608) 266-5089
AARON BONK	(608) 261-0261

APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

LIST OF DRAWINGS

1. LAYOUT 1
2. LAYOUT 2
3. QUANTITIES & NOTES
4. BOX DETAILS
5. APRON
6. APRON DETAILS
7. SUBSURFACE EXPLORATION

NO.	DATE	REVISION	BY

WISCONSIN DEPARTMENT OF TRANSPORTATION — BUREAU OF STRUCTURES

ACCEPTED _____ CHIEF STRUCTURES DESIGN ENGINEER _____ DATE

STRUCTURE C-44-121

STH 15 OVER UNNAMED TRIBUTARY TO WOLF RIVER

COUNTY	TOWN
OUTAGAMIE	HORTONIA

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
EMK	LMK	EMK	JJS

LAYOUT 1

SHEET 1 OF 7

PRE_183

I.D. 1146-75-00H DATE: OCT. 2017

SCALE = 5.00

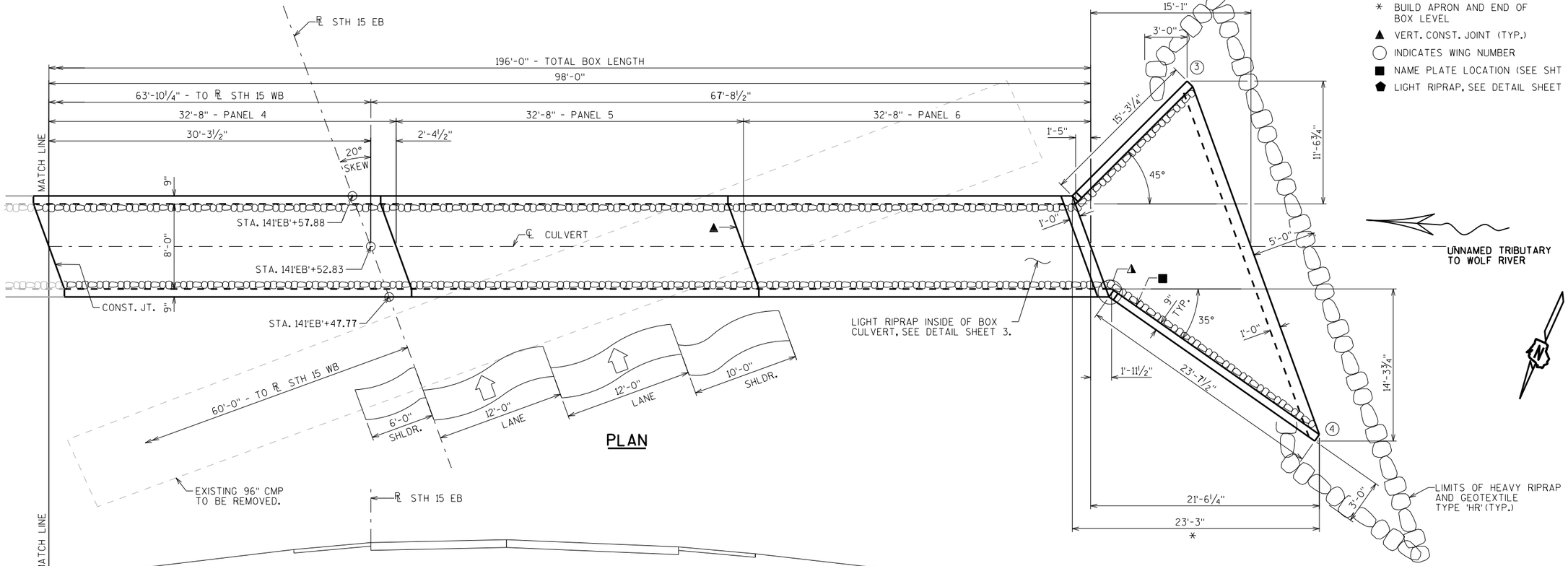
8 8

NOTE: STRUCTURE BACKFILL REQUIRED BEHIND ALL WING WALLS.

STATE PROJECT NUMBER

1146-75-73

- ◭ CORNER DETAILS (SEE SHT 6)
- * BUILD APRON AND END OF BOX LEVEL
- ▲ VERT. CONST. JOINT (TYP.)
- ◯ INDICATES WING NUMBER
- ■ NAME PLATE LOCATION (SEE SHT 3)
- ⬟ LIGHT RIPRAP, SEE DETAIL SHEET 3



APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 20

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-44-121

DRAWN BY EMK | PLANS CK'D. JJS

LAYOUT 2

SHEET 2

PRE_184

SCALE = 5.00

8

8

STATE PROJECT NUMBER

1146-75-73

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.

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS C-44-121" SHALL BE THE EXISTING GROUNDLINE.

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

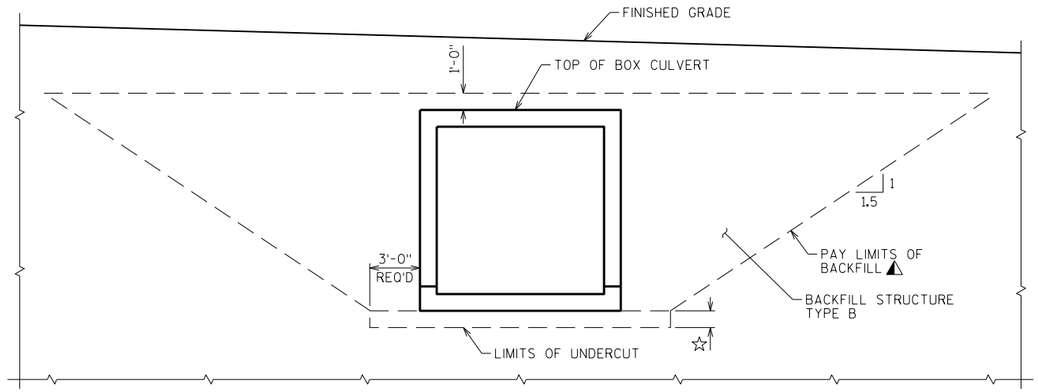
THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS.

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

PLACE 18" (MIN.) WIDE SHEET OF "RUBBERIZED MEMBRANE WATERPROOFING" ON TOP SLAB OVER ALL CONSTRUCTION JOINTS AND EXTEND DOWN TO BOTTOM OF OUTSIDE WALLS.

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

ALL PRECAST BOX SECTIONS SHALL BE PLACED ON A BEDDING OF "STRUCTURE BACKFILL TYPE B" OF 6" MINIMUM DEPTH.



TYPICAL SECTION THRU BOX CULVERT

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

☆ UNDER CUT 1'-0". EXCAVATION FOR UNDER CUT TO BE INCLUDED IN EXCAVATION FOR STRUCTURES. PLACE "GEOTEXTILE TYPE C" AND BACKFILL WITH "BREAKER RUN".

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

TOTAL ESTIMATED QUANTITIES

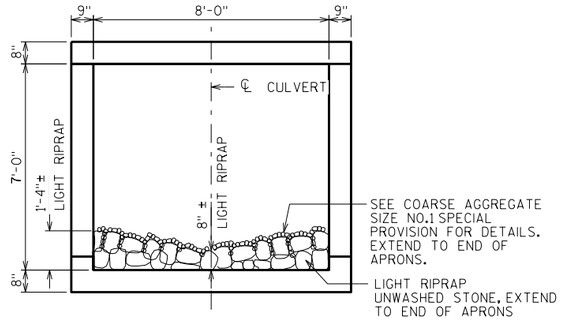
BID ITEMS

203.0200	REMOVING OLD STRUCTURE STA. 141'EB'+42.35	1	LS
206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-44-121	1	LS
210.2500	BACKFILL STRUCTURE TYPE B	3,020	TON
311.0115	BREAKER RUN	150	CY
504.0100	CONCRETE MASONRY CULVERTS	201	CY
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	33,160	LB
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	1,910	LB
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	100	SY
◪ 606.0100	RIPRAP LIGHT	75	CY
606.0300	RIPRAP HEAVY	55	CY
645.0105	GEOTEXTILE TYPE C	465	SY
645.0120	GEOTEXTILE TYPE HR	130	SY
SPV.0195	COARSE AGGREGATE SIZE NO.1 FOR AOP BOX CULVERT	60	TON

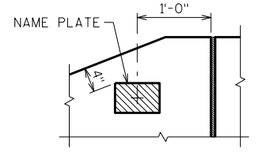
NON-BID ITEMS

FILLER	3/4"	SIZE

◪ LIGHT RIPRAP PLACED INSIDE BOX CULVERT AND BOTH APRONS TO BE UNWASHED STONE



SECTION THRU BOX LIGHT RIPRAP DETAIL



NAME PLATE LOCATION WING 4

APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-44-121

DRAWN BY EMK | PLANS CK'D. JJS

QUANTITIES & NOTES

SHEET 3

PRE_185

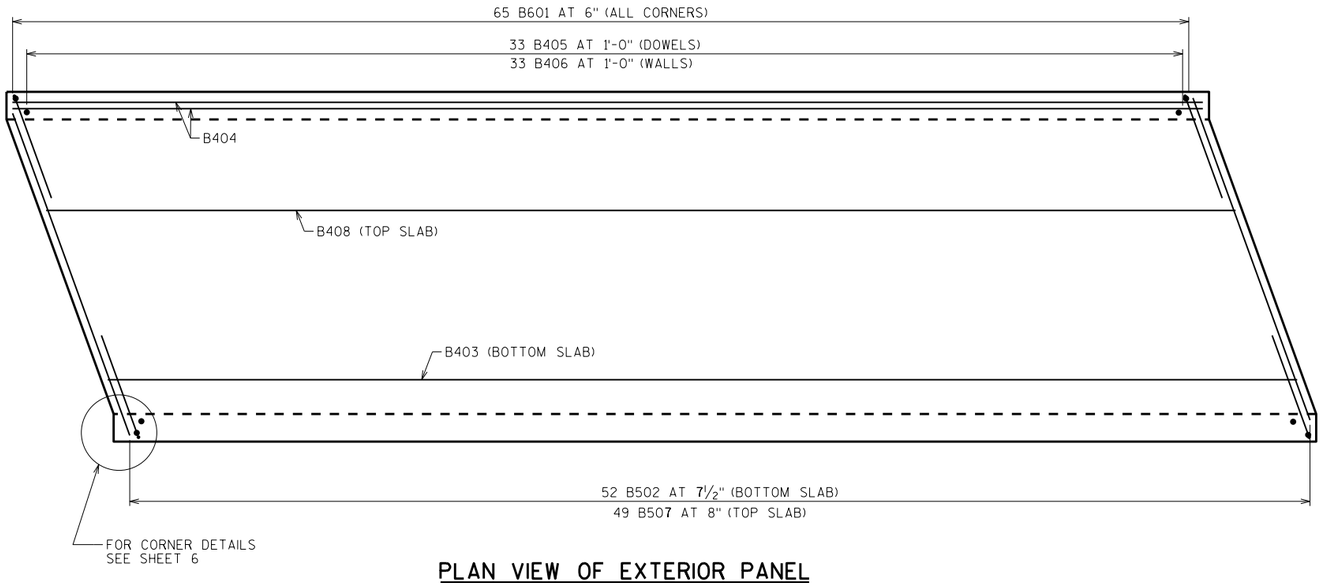
SCALE = 1.00

8

8

STATE PROJECT NUMBER

1146-75-73



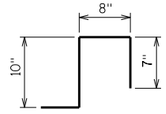
PLAN VIEW OF EXTERIOR PANEL

USE IDENTICAL STEEL IN OTHER PANELS
HEADER BARS & APRON NOT SHOWN FOR CLARITY.

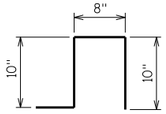
BILL OF BARS

THE FIRST OR FIRST AND SECOND DIGIT OF THE MARK SIGNIFIES THE BAR SIZE. THE DIMENSION IN THE BENT COLUMN IS THE OUT TO OUT HORIZONTAL LEG OF A "L" SHAPED BAR. LONGER BARS OF THE SAME SIZE MAY BE SUBSTITUTED FOR SHORTER BARS. PAYMENT BASED ON BAR LENGTHS AS DETAILED.

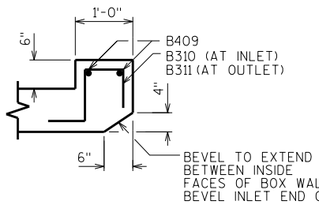
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	LOCATION
B601		1560	7'-9"	5'-0"	CORNERS
B502		312	9'-9"	_	BOTTOM SLAB - TRANS.
B403		42	32'-3"		BOTTOM SLAB - LONGIT.
B404		132	32'-4"		TOP AND BOTTOM SLAB AND WALL
B405		396	2'-2"		WALLS - DOWELS - VERT.
B406		396	7'-0"		WALLS - VERT.
B507		294	9'-9"		TOP SLAB - TRANS.
B408		42	32'-3"		TOP SLAB - LONGIT.
B409		8	9'-9"		HEADERS - HORIZ.
B310		14	2'-4"	X	HEADER STIRRUPS - VERT. - INLET
B311		14	2'-7"	X	HEADER STIRRUPS - VERT. - OUTLET
B512		180	4'-0"		VERT. CONST. JOINT



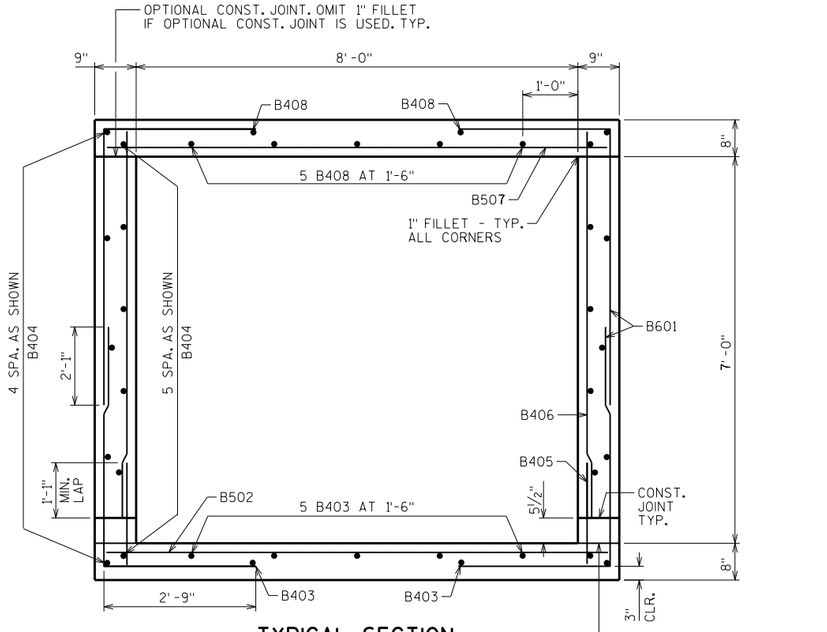
B310



B311

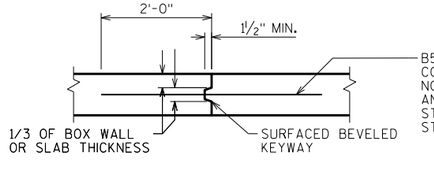


SECTION THRU
TOP HEADER



TYPICAL SECTION THRU BOX

ALL LONGITUDINAL BARS NOT IDENTIFIED
ARE B404 BARS AS SHOWN



VERTICAL CONSTRUCTION JOINT

2" DEEP SAW CUT WITHIN 12 HOURS AFTER POURING MAY BE USED IN LIEU OF CONST. JT. IN BOTTOM SLAB.

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-44-121

DRAWN BY EMK | PLANS CK'D. JJS

BOX DETAILS

SHEET 4

PRE_186

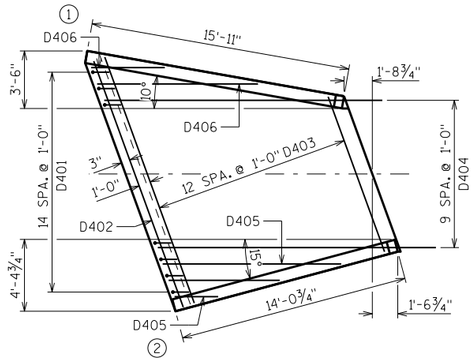
8

8

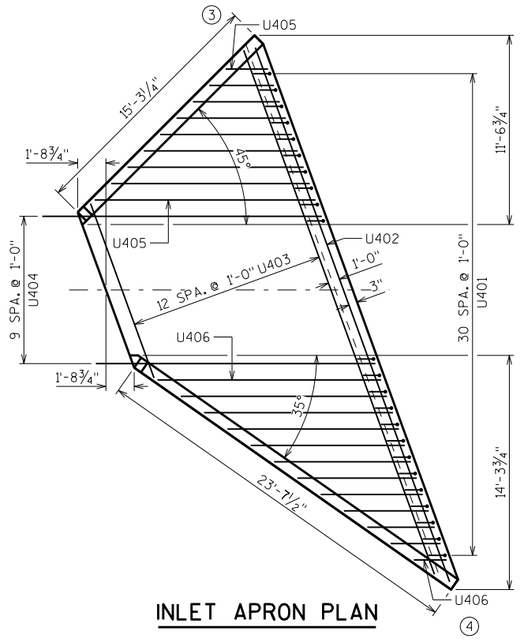
SCALE = 2.00

STATE PROJECT NUMBER

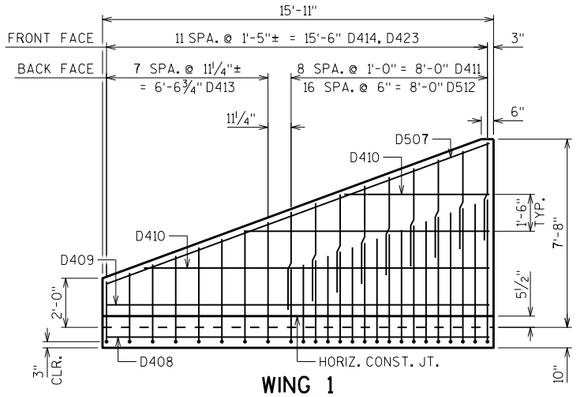
1146-75-73



OUTLET APRON PLAN

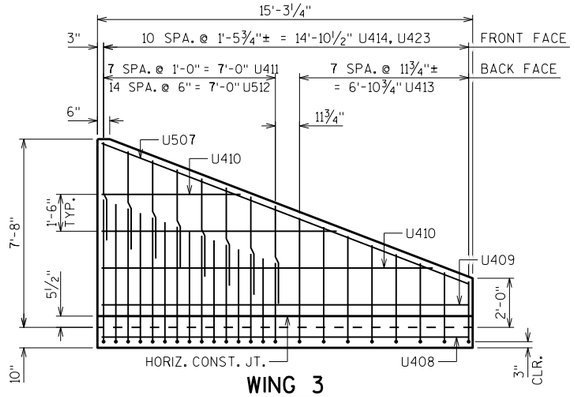


INLET APRON PLAN



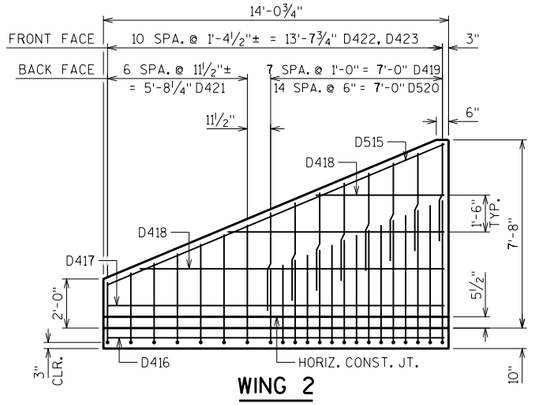
WING 1

SHOWING BACK FACE REINFORCEMENT



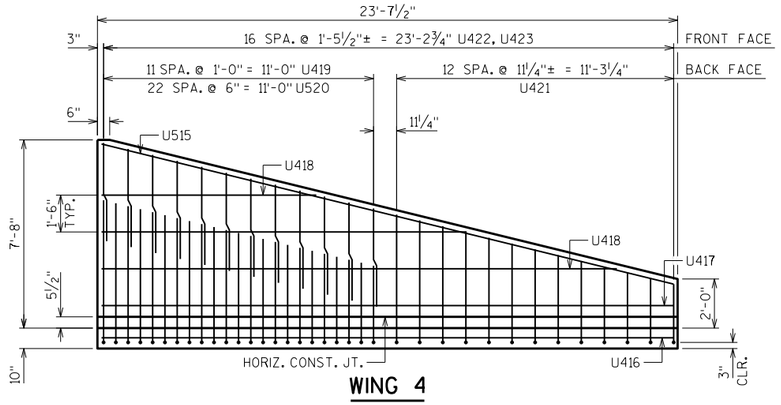
WING 3

SHOWING BACK FACE REINFORCEMENT



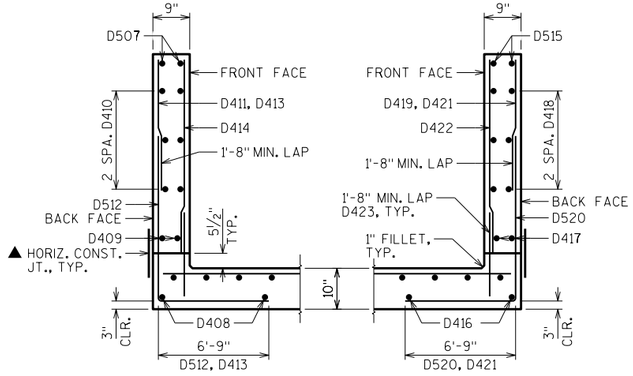
WING 2

SHOWING BACK FACE REINFORCEMENT



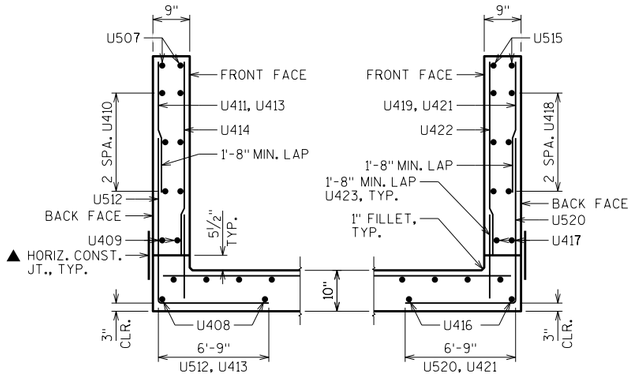
WING 4

SHOWING BACK FACE REINFORCEMENT



WING 1 SECTION

WING 2 SECTION



WING 3 SECTION

WING 4 SECTION

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

▲ 18" RUBBERIZED MEMBRANE WATERPROOFING, PLACE ALONG HORIZ. CONST. JT. FOR ENTIRE WING LENGTH, TYP.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-44-121

DRAWN BY EMK | PLANS CK'D. JJS

APRON

SHEET 5

PRE_187

SCALE = 4.50

8

8

STATE PROJECT NUMBER

1146-75-73

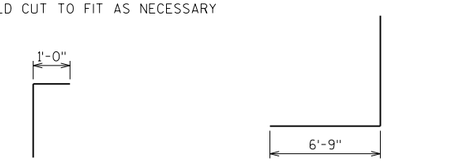
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
D401		15	5'-6"	X		OUTLET APRON AND CUTOFF WALL VERT.
D402		5	16'-0"			OUTLET APRON AND CUTOFF WALL HORIZ.
D403		13	13'-1"		⚠	OUTLET APRON SLAB HORIZ.
D404		10	17'-0"			OUTLET APRON AND BOX SLAB HORIZ.
D405		3	6'-9"		⚠	OUTLET APRON SLAB HORIZ.
D406		2	7'-2"		⚠	OUTLET APRON SLAB HORIZ.
D507	X	2	16'-3"			WING 1 HORIZ. TOP BOTH FACES
D408	X	2	15'-6"			WING 1 HORIZ. APRON SLAB
D409	X	2	15'-6"			WING 1 HORIZ. BOTTOM BOTH FACES
D410	X	6	10'-0"		⚠	WING 1 HORIZ.
D411	X	9	4'-0"			WING 1 VERT. BACK FACE
D512	X	17	11'-6"	X	⚠	WING 1 VERT. BACK FACE
D413	X	8	10'-4"	X	⚠	WING 1 VERT. BACK FACE
D414	X	12	4'-3"		⚠	WING 1 VERT. FRONT FACE
D515	X	2	14'-6"			WING 2 HORIZ. TOP BOTH FACES
D416	X	2	13'-7"			WING 2 HORIZ. APRON SLAB
D417	X	2	13'-7"			WING 2 HORIZ. BOTTOM BOTH FACES
D418	X	6	8'-10"		⚠	WING 2 HORIZ.
D419	X	8	4'-0"			WING 2 VERT. BACK FACE
D520	X	15	11'-0"	X	⚠	WING 2 VERT. BACK FACE
D421	X	7	10'-3"	X	⚠	WING 2 VERT. BACK FACE
D422	X	11	4'-3"		⚠	WING 2 VERT. FRONT FACE
D423	X	23	2'-9"			WINGS 1 & 2 DOWELS FRONT FACE ◐
U401		31	3'-6"	X		INLET APRON AND CUTOFF WALL VERT.
U402		3	34'-9"			INLET APRON AND CUTOFF WALL HORIZ.
U403		13	22'-9"		⚠	INLET APRON SLAB HORIZ.
U404		10	17'-1"			INLET APRON AND BOX SLAB HORIZ.
U405		9	8'-1"		⚠	INLET APRON SLAB HORIZ.
U406		12	7'-10"		⚠	INLET APRON SLAB HORIZ.
U507	X	2	15'-8"			WING 3 HORIZ. TOP BOTH FACES
U408	X	2	14'-10"			WING 3 HORIZ. APRON SLAB
U409	X	2	14'-10"			WING 3 HORIZ. BOTTOM BOTH FACES
U410	X	6	9'-7"		⚠	WING 3 HORIZ.
U411	X	8	4'-0"			WING 3 VERT. BACK FACE
U512	X	15	11'-2"	X	⚠	WING 3 VERT. BACK FACE
U413	X	8	10'-5"	X	⚠	WING 3 VERT. BACK FACE
U414	X	11	4'-3"		⚠	WING 3 VERT. FRONT FACE
U515	X	2	23'-8"			WING 4 HORIZ. TOP BOTH FACES
U416	X	2	23'-2"			WING 4 HORIZ. APRON SLAB
U417	X	2	23'-2"			WING 4 HORIZ. BOTTOM BOTH FACES
U418	X	6	14'-11"		⚠	WING 4 HORIZ.
U419	X	12	4'-0"			WING 4 VERT. BACK FACE
U520	X	23	11'-1"	X	⚠	WING 4 VERT. BACK FACE
U421	X	13	10'-5"	X	⚠	WING 4 VERT. BACK FACE
U422	X	17	4'-3"		⚠	WING 4 VERT. FRONT FACE
U423	X	28	2'-9"			WINGS 3 & 4 DOWELS FRONT FACE ◐

⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

◐ FIELD CUT TO FIT AS NECESSARY



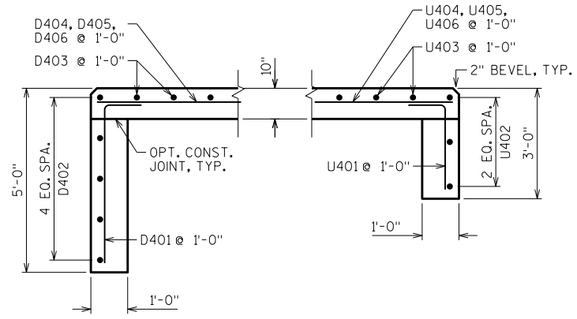
D401, U401

D512, D413, D520, D421, U512, U413, U520, U421

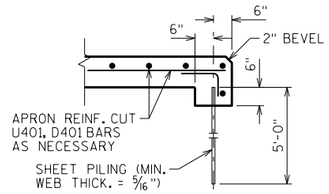
BAR SERIES TABLE

BAR MARK	NO. REQ'D	LENGTH
D403	1 SERIES OF 13	10'-1" TO 16'-0"
D405	1 SERIES OF 3	2'-8" TO 10'-11"
D406	1 SERIES OF 2	4'-6" TO 9'-10"
D410	2 SERIES OF 3	5'-11" TO 14'-1"
D512	1 SERIES OF 17	10'-7" TO 12'-5"
D413	1 SERIES OF 8	9'-1" TO 11'-6"
D414	1 SERIES OF 12	1'-5" TO 7'-0"
D418	2 SERIES OF 3	5'-3" TO 12'-5"
D520	1 SERIES OF 15	9'-7" TO 12'-5"
D421	1 SERIES OF 7	9'-1" TO 11'-5"
D422	1 SERIES OF 11	1'-5" TO 7'-0"
U403	1 SERIES OF 13	11'-4" TO 34'-2"
U405	1 SERIES OF 9	2'-7" TO 13'-6"
U406	1 SERIES OF 12	2'-0" TO 13'-8"
U410	2 SERIES OF 3	5'-8" TO 13'-6"
U512	1 SERIES OF 15	9'-10" TO 12'-5"
U413	1 SERIES OF 8	9'-1" TO 11'-8"
U414	1 SERIES OF 11	1'-5" TO 7'-0"
U418	2 SERIES OF 3	8'-9" TO 21'-0"
U520	1 SERIES OF 23	9'-9" TO 12'-5"
U421	1 SERIES OF 13	9'-0" TO 11'-10"
U422	1 SERIES OF 17	1'-5" TO 7'-0"

BUNDLE AND TAG EACH SERIES SEPARATELY

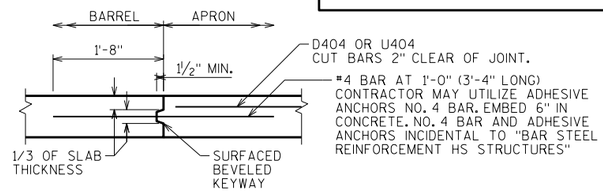


CUT-OFF WALLS



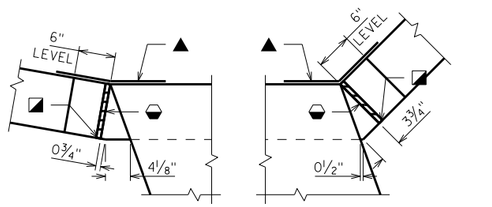
ALTERNATE CUT-OFF WALLS

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



OPTIONAL CONSTRUCTION JOINT

2" DEEP SAW CUT WITHIN 12 HOURS AFTER POURING MAY BE USED IN LIEU OF CONST. JT. IN BOTTOM SLAB.



CORNER 1 CORNER 3

CORNER 2 CORNER 4

CORNER DETAILS

◒ 3/4" FILLER, TYP. EXTEND FILLER FROM HORIZ. CONST. JT. TO TOP OF WING.

◪ 1" BEVEL, TYP.

▲ 18" RUBBERIZED MEMBRANE WATERPROOFING. EXTEND FROM HORIZ. CONST. JT. TO TOP OF WALL.

APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-44-121

DRAWN BY EMK | PLANS CK'D. JJS

APRON DETAILS

SHEET 6

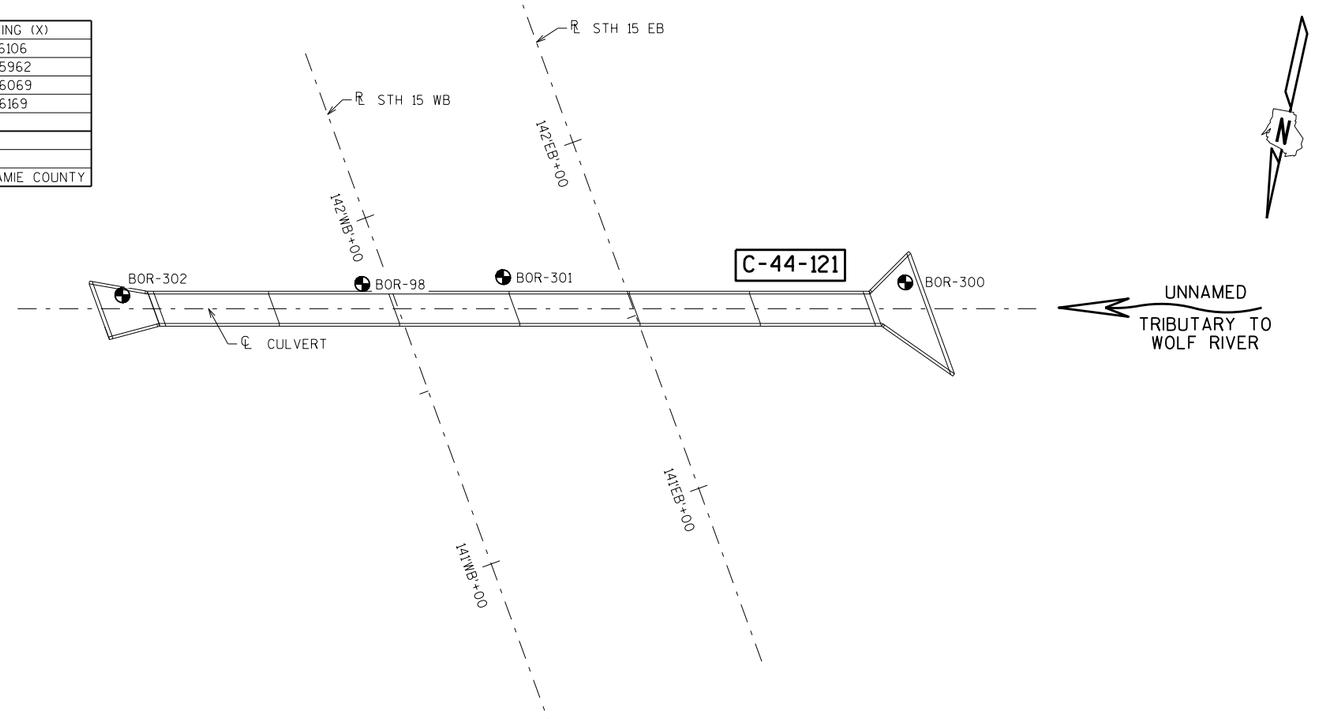
PRE_188

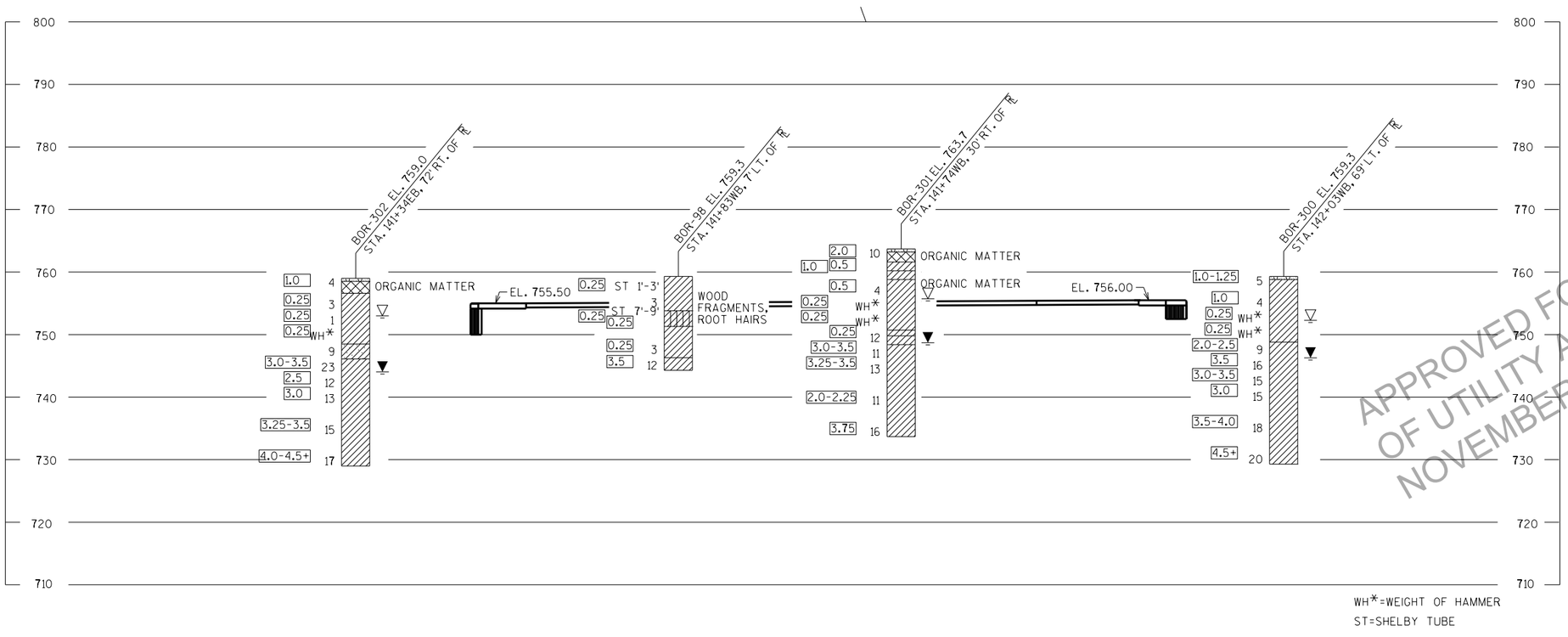
SCALE = 1.00

8

8

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
98	7/11/2012	598752	746106
300	2/25/2014	598720	745962
301	2/24/2014	598742	746069
302	2/24/2014	598769	746169
BORINGS COMPLETED BY: GESTRA			
REPORT COMPLETED BY: CH2MHILL			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) OUTAGAMIE COUNTY			





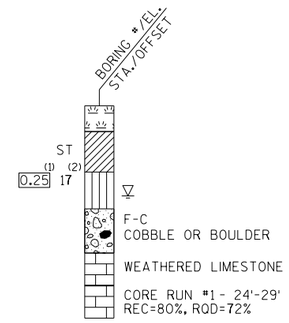
STATE PROJECT NUMBER

1146-75-73

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.

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-44-121

DRAWN BY TLP/EMK | PLANS CK'D. JJS

SUBSURFACE EXPLORATION

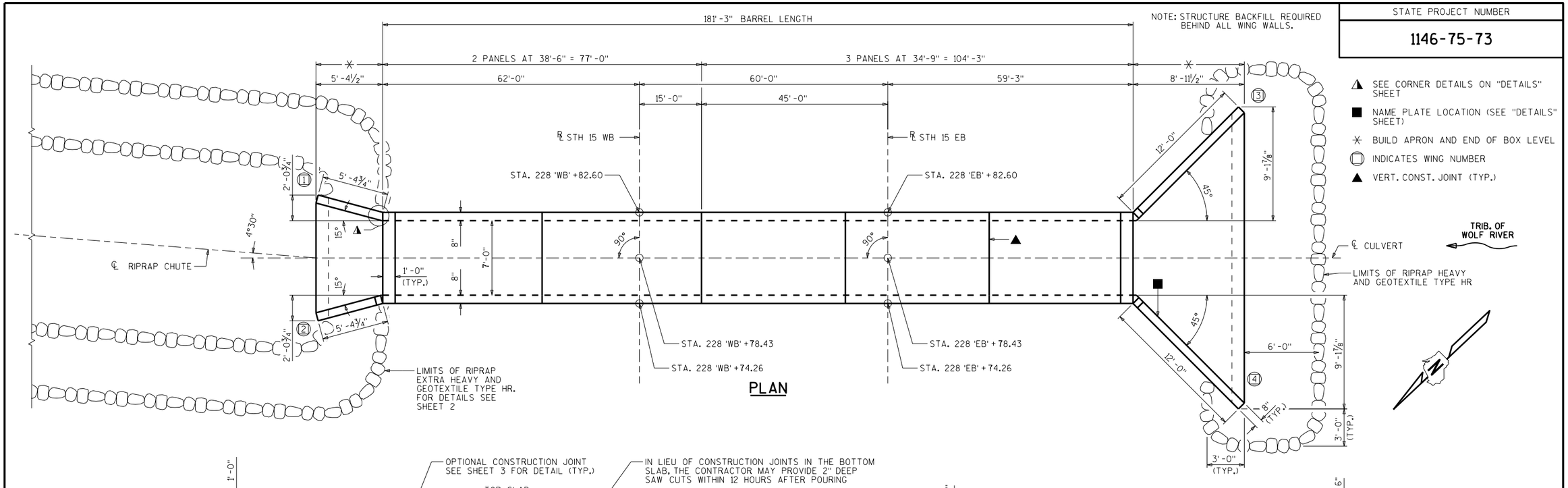
SHEET 7

PRE_189

SCALE = 20.00

8

8



ELEVATION

▲ SEE CORNER DETAILS ON "DETAILS" SHEET
■ NAME PLATE LOCATION (SEE "DETAILS" SHEET)
✳ BUILD APRON AND END OF BOX LEVEL
⬭ INDICATES WING NUMBER
▲ VERT. CONST. JOINT (TYP.)

STATE PROJECT NUMBER
1146-75-73

LIST OF DRAWINGS

1. LAYOUT
2. RIPRAP CHUTE DETAILS
3. BOX DETAILS
4. APRON DETAILS
5. DETAILS
6. SUBSURFACE EXPLORATION

DESIGN DATA

LIVE LOAD:
DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF = 1.05
OPERATING RATING FACTOR: RF = 1.35
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 255(KIPS)

EARTHLOAD:
DESIGNED FOR 3.5 TO 7.0 FT. OF FILL.

MATERIAL PROPERTIES:
CONCRETE MASONRY: ——— f'c = 3,500 P.S.I.
BAR STEEL REINFORCEMENT: ——— fy = 60,000 P.S.I.

HYDRAULIC DATA

100 YEAR FREQUENCY
Q_{100} = 200 C.F.S.
VEL. = 14.9 F.P.S.
$HW._{100}$ = EL. 817.88
DRAINAGE AREA = 0.7 SQ. MI.
ROADWAY OVERTOPPING = N/A
SCOUR CRITICAL CODE = 8

2 YEAR FREQUENCY
Q_2 = 30.0 C.F.S.
$HW._2$ = EL. 815.14

TRAFFIC VOLUME

STH 15
ADT = 20,000 (2040)
R.D.S. = 60 M.P.H.

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
203.0200	REMOVING OLD STRUCTURE STA. 228 'EB' +69	LS	1
206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-44-122	LS	1
210.2500	BACKFILL STRUCTURE TYPE B	TON	1724
311.0115	BREAKER RUN	CY	106
504.0100	CONCRETE MASONRY CULVERTS	CY	124
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	31,500
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	800
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	23
606.0300	RIPRAP HEAVY	CY	18
606.0400	RIPRAP EXTRA-HEAVY	CY	425
645.0105	GEOTEXTILE TYPE C	SY	365
645.0120	GEOTEXTILE TYPE HR	SY	485
	NON-BID ITEMS		
	FILLER	SIZE	¾"

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS C-44-122" SHALL BE THE EXISTING GROUNDLINE.

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

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS.

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

PLACE 18" (MIN.) WIDE SHEET OF "RUBBERIZED MEMBRANE WATERPROOFING" ON TOP SLAB OVER ALL CONSTRUCTION JOINTS AND EXTEND DOWN TO BOTTOM OF OUTSIDE WALLS.

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

THE CONTRACTOR MAY ELECT TO SUBSTITUTE #1 OR #2 CONCRETE COARSE AGGREGATE, SELECT CRUSHED MATERIAL OR OTHER GRANULAR MATERIAL AS APPROVED BY THE FIELD ENGINEER, IN LIEU OF THE BREAKER RUN, TO BE UTILIZED AS A CONSTRUCTION PLATFORM FOR THE BOX. THE CONTRACTOR IS RESPONSIBLE FOR BASE STABILITY WITH ANY SUBSTITUTED MATERIAL.

APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

STRUCTURE DESIGN CONTACTS:
DANIELLE DE TENNIS (608) 266-8689
AARON BONK (608) 261-0261

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE C-44-122

STH 15 OVER TRIBUTARY TO WOLF RIVER

COUNTY	TOWN
OUTAGAMIE	HORTONIA

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
DFD	SGN	DFD	JJS

LAYOUT

SHEET 1 OF 6

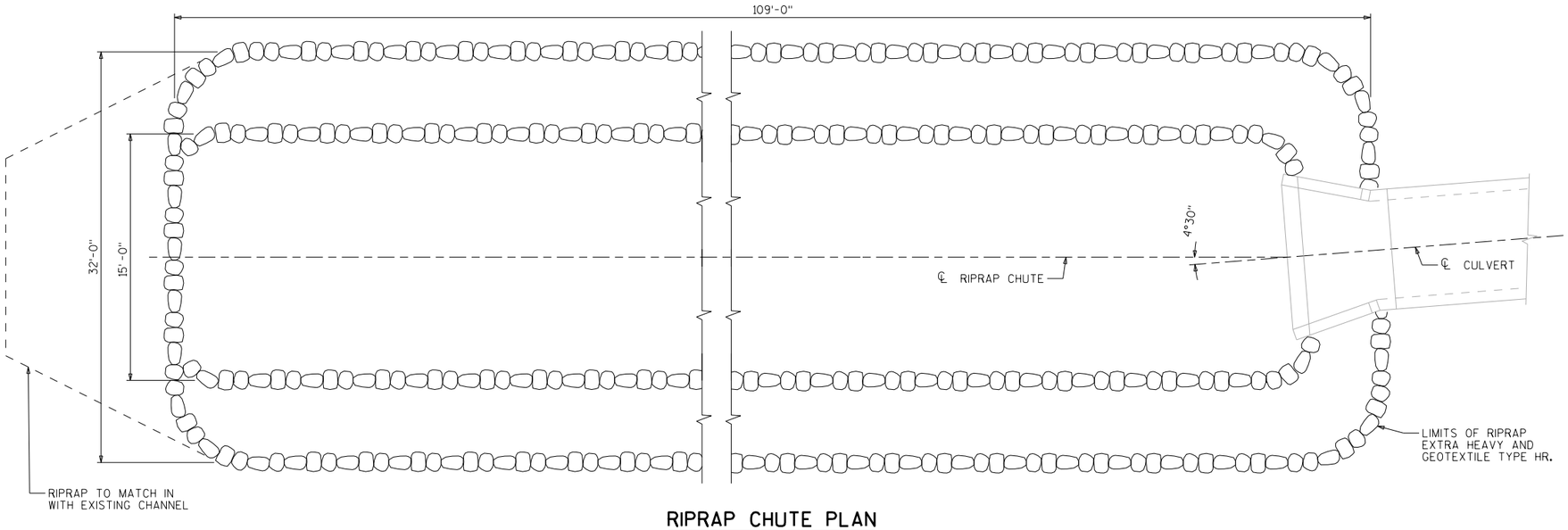
PRE_190

I.D. 1146-75-00D DATE: OCT. 2019

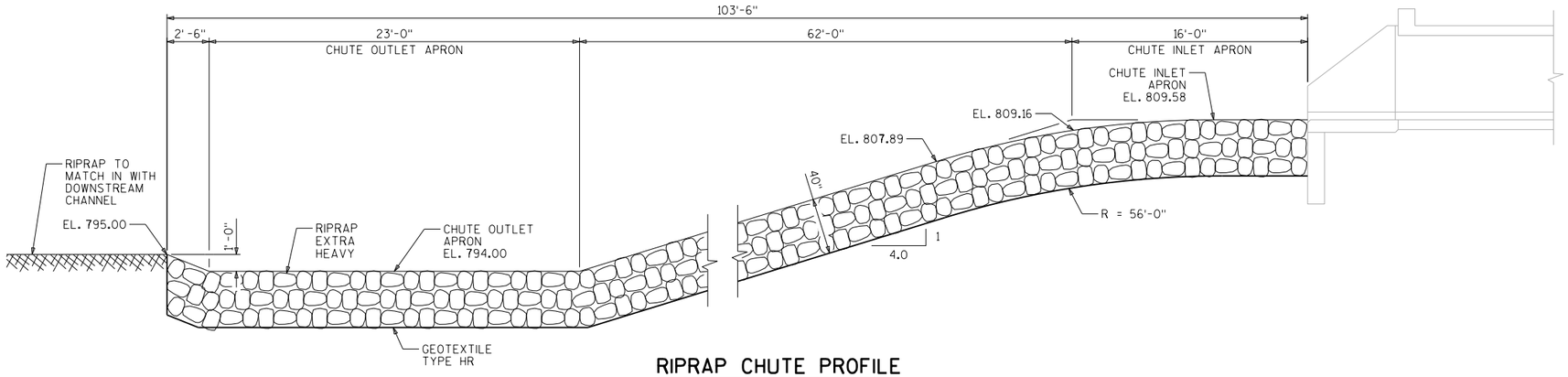
SCALE = 4.00

STATE PROJECT NUMBER

1146-75-73



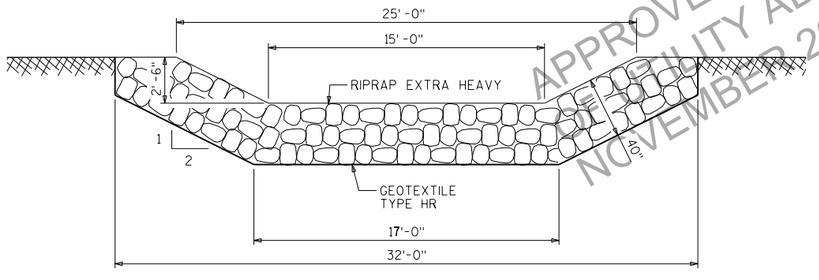
RIPRAP CHUTE PLAN



RIPRAP CHUTE PROFILE

ALONG ℄ CHUTE

NOTE:
USE ANGULAR (NOT ROUNDED) RIPRAP IN CHUTE



SECTION THRU CHUTE

APPROVED FOR DESIGN
QUANTITY ADJUSTMENTS
NOVEMBER 2019

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-44-122

DRAWN BY DFD | PLANS CK'D. JJS

RIPRAP CHUTE DETAILS

SHEET 2

PRE_191

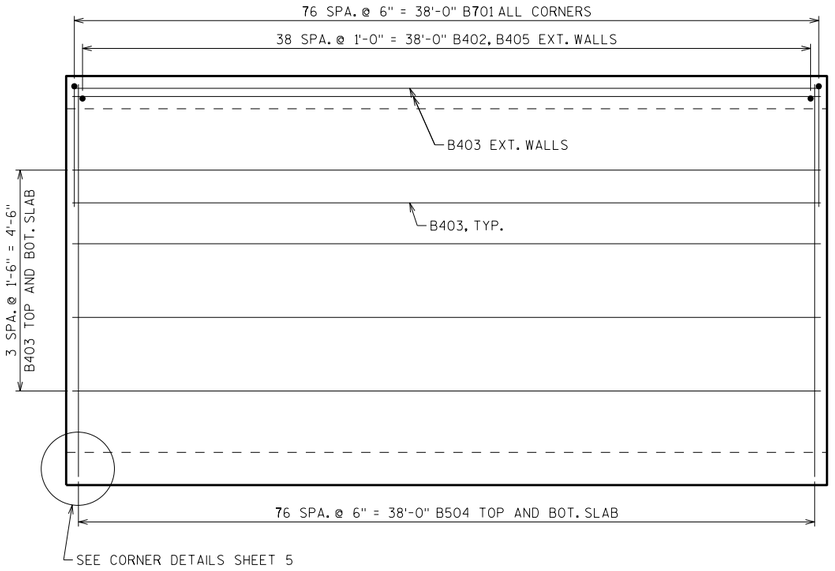
SCALE = 4.00

8

8

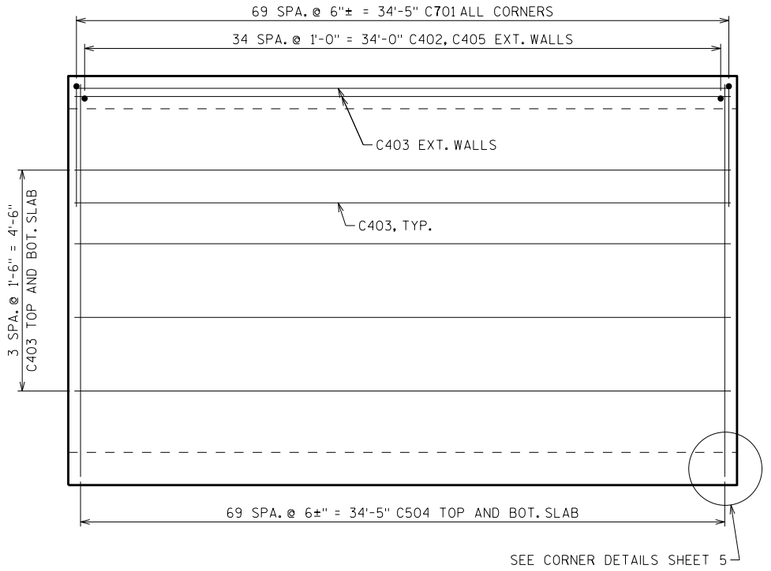
STATE PROJECT NUMBER

1146-75-73



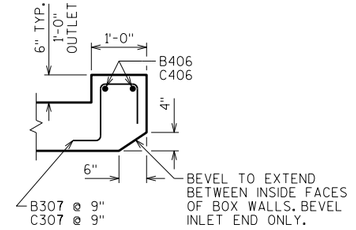
PLAN VIEW OF OUTLET PANEL

TYP. FOR 38'-6" PANELS

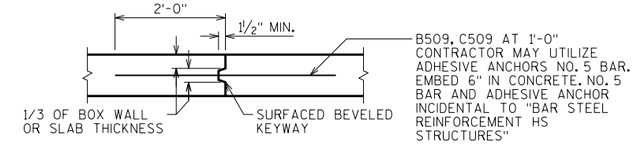


PLAN VIEW OF INLET PANEL

TYP. FOR 34'-9" PANELS

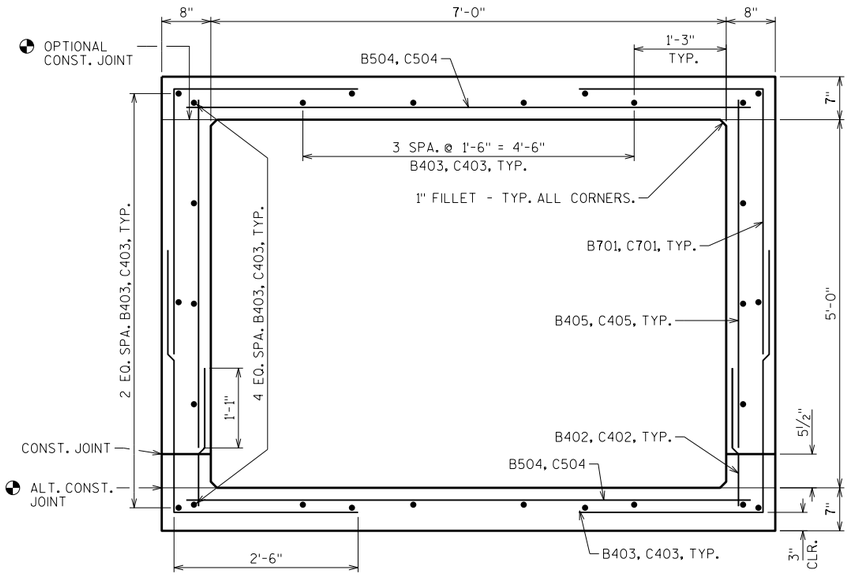


SECTION THRU HEADER



VERTICAL CONSTRUCTION JOINT

2" DEEP SAW CUT WITHIN 12 HOURS AFTER POURING MAY BE USED IN LIEU OF CONST. JT. IN BOTTOM SLAB.



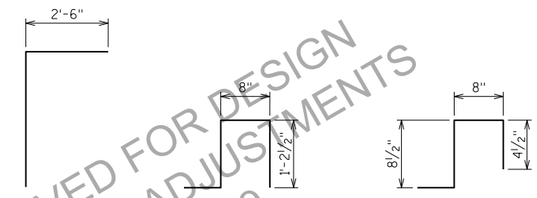
TYPICAL SECTION THRU BOX

OMIT 1" FILLET IF JOINT IS USED

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B701		616	6'-7"	X		CORNERS
B402		156	1'-11"			EXTERIOR WALL DOWELS
B403		56	38'-0"			LONGITUDINAL
B504		308	8'-0"			TOP AND BOT. SLAB
B405		156	4'-10"			EXTERIOR WALLS VERTICAL
B406		2	8'-0"			OUTLET HEADER HORIZONTAL
B307		10	3'-4"	X		OUTLET HEADER STIRRUP
						NOT USED
B509		28	4'-0"			VERTICAL CONST. JOINT
C701		840	6'-7"	X		CORNERS
C402		210	1'-11"			EXTERIOR WALL DOWELS
C403		84	34'-3"			LONGITUDINAL
C504		420	8'-0"			TOP AND BOT. SLAB
C405		210	4'-10"			EXTERIOR WALLS VERTICAL
C406		2	8'-0"			INLET HEADER HORIZONTAL
C307		10	2'-0"	X		INLET HEADER STIRRUP
						NOT USED
C509		84	4'-0"			VERTICAL CONST. JOINT



B701, C701 B307 C307

APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-44-122

DRAWN BY DFD | PLANS CK'D. JJS

SHEET 3

BOX DETAILS

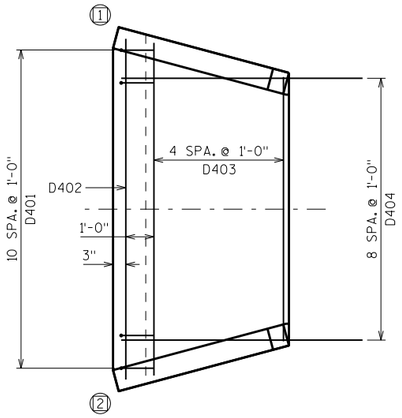
PRE_192

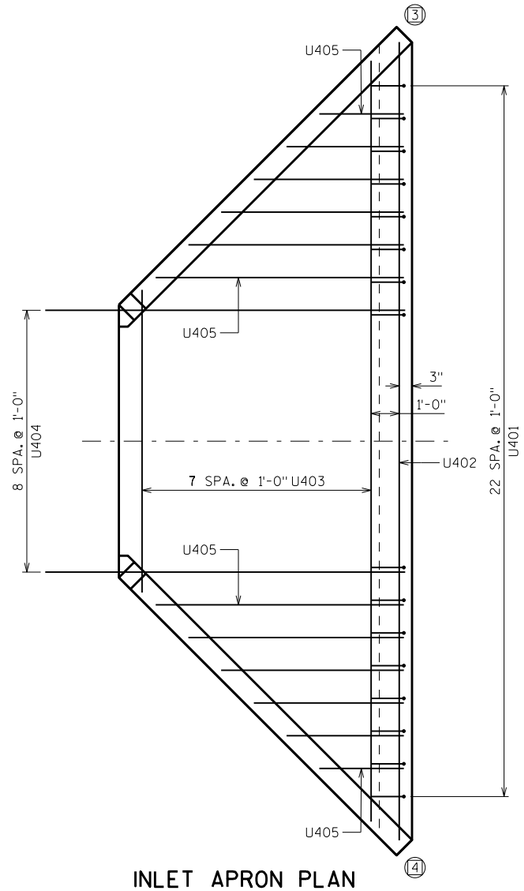
SCALE = 1.00

(1) INDICATES WING NUMBER

STATE PROJECT NUMBER

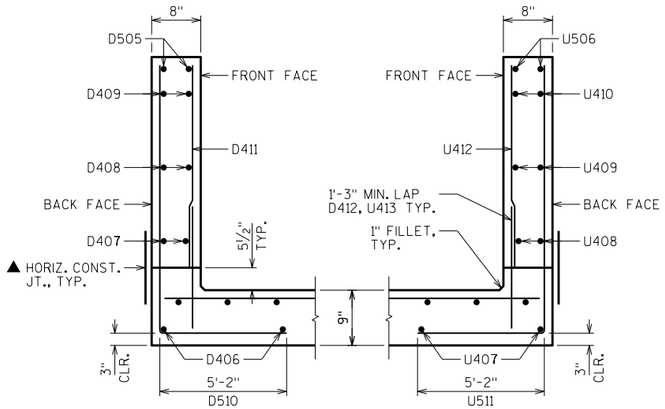
1146-75-73





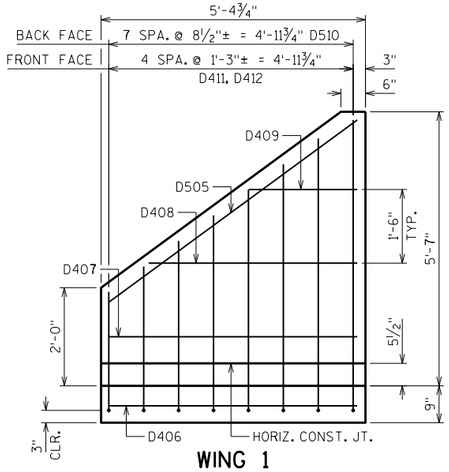
OUTLET APRON PLAN

INLET APRON PLAN



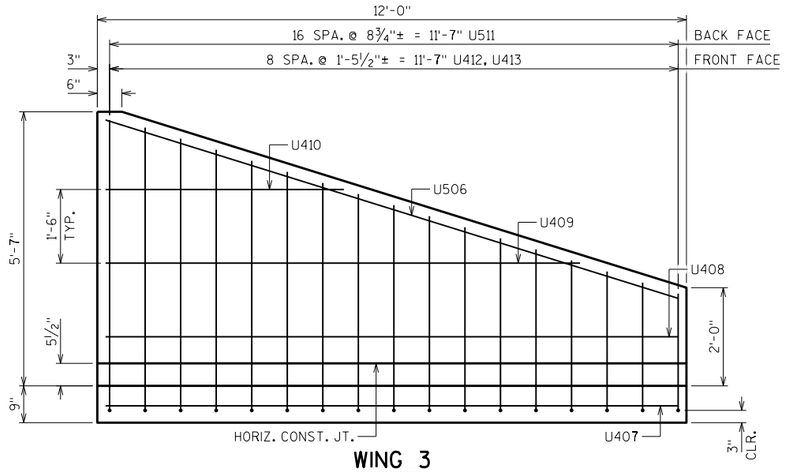
WINGS 1 & 2 SECTION

WINGS 3 & 4 SECTION



WING 1

WING 2 SIMILAR
SHOWING BACK FACE REINFORCEMENT



WING 3

WING 4 SIMILAR
SHOWING BACK FACE REINFORCEMENT

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

▲ 18" RUBBERIZED MEMBRANE WATERPROOFING, PLACE ALONG HORIZ. CONST. JT. FOR ENTIRE WING LENGTH, TYP.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-44-122

DRAWN BY DFD | PLANS CK'D. JJS

APRON DETAILS

SHEET 4

PRE_193

SCALE = 1.50

8

8

STATE PROJECT NUMBER

1146-75-73

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

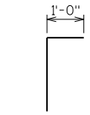
BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
D401		11	5'-6"	X		OUTLET APRON AND CUTOFF WALL VERT.
D402		5	10'-5"			OUTLET APRON AND CUTOFF WALL HORIZ.
D403		5	9'-1"		⚠	OUTLET APRON SLAB HORIZ.
D404		9	7'-5"			OUTLET APRON AND BOX SLAB HORIZ.
D505	X	4	6'-1"			WINGS 1 & 2 HORIZ. TOP BOTH FACES
D406	X	4	5'-0"			WINGS 1 & 2 HORIZ. APRON SLAB
D407	X	4	5'-0"			WINGS 1 & 2 HORIZ. BOTTOM BOTH FACES
D408	X	4	4'-3"			WINGS 1 & 2 HORIZ.
D409	X	4	2'-2"			WINGS 1 & 2 HORIZ.
D510	X	16	9'-2"	X	⚠	WINGS 1 & 2 VERT. BACK FACE
D411	X	10	3'-2"		⚠	WINGS 1 & 2 VERT. FRONT FACE
D412	X	10	2'-3"			WINGS 1 & 2 DOWELS FRONT FACE
U401		23	3'-6"	X		INLET APRON AND CUTOFF WALL VERT.
U402		3	24'-3"			INLET APRON AND CUTOFF WALL HORIZ.
U403		8	16'-3"		⚠	INLET APRON SLAB HORIZ.
U404		9	11'-0"			INLET APRON AND BOX SLAB HORIZ.
U405		12	5'-1"		⚠	INLET APRON SLAB HORIZ.
U506	X	4	12'-2"			WINGS 3 & 4 HORIZ. TOP BOTH FACES
U407	X	4	11'-8"			WINGS 3 & 4 HORIZ. APRON SLAB
U408	X	4	11'-8"			WINGS 3 & 4 HORIZ. BOTTOM BOTH FACES
U409	X	4	9'-8"			WINGS 3 & 4 HORIZ.
U410	X	4	4'-10"			WINGS 3 & 4 HORIZ.
U511	X	34	9'-2"	X	⚠	WINGS 3 & 4 VERT. BACK FACE
U412	X	18	3'-2"		⚠	WINGS 3 & 4 VERT. FRONT FACE
U413	X	18	2'-3"			WINGS 3 & 4 DOWELS FRONT FACE

⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

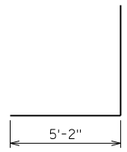
BAR SERIES TABLE

BAR MARK	NO. REQ'D	LENGTH
D403	1 SERIES OF 5	8'-0" TO 10'-2"
D510	2 SERIES OF 8	7'-4" TO 10'-11"
D411	2 SERIES OF 5	1'-5" TO 4'-11"
U403	1 SERIES OF 8	9'-3" TO 23'-3"
U405	2 SERIES OF 6	2'-7" TO 7'-7"
U511	2 SERIES OF 17	7'-4" TO 10'-11"
U412	2 SERIES OF 9	1'-5" TO 4'-11"

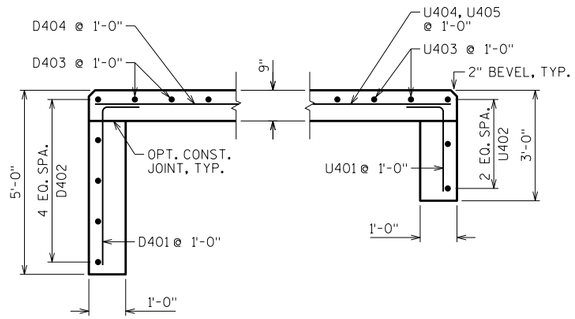
BUNDLE AND TAG EACH SERIES SEPARATELY



D401, U401

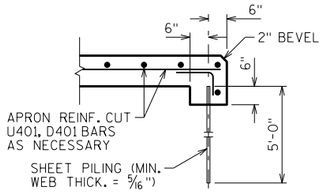


D510, U511



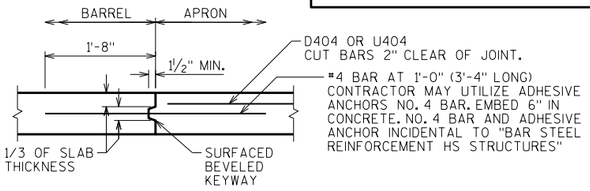
OUTLET INLET

CUT-OFF WALLS



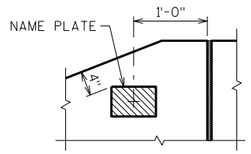
ALTERNATE CUT-OFF WALLS

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

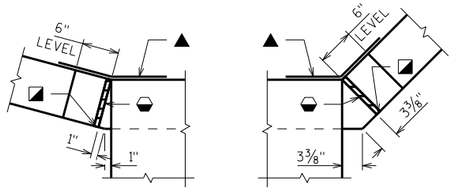


OPTIONAL CONSTRUCTION JOINT

2" DEEP SAW CUT WITHIN 12 HOURS AFTER POURING MAY BE USED IN LIEU OF CONST. JT. IN BOTTOM SLAB.

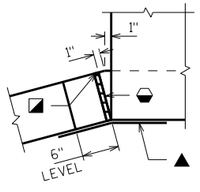


NAME PLATE LOCATION WING 4

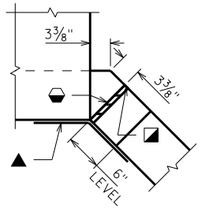


CORNER 1

CORNER 3



CORNER 2



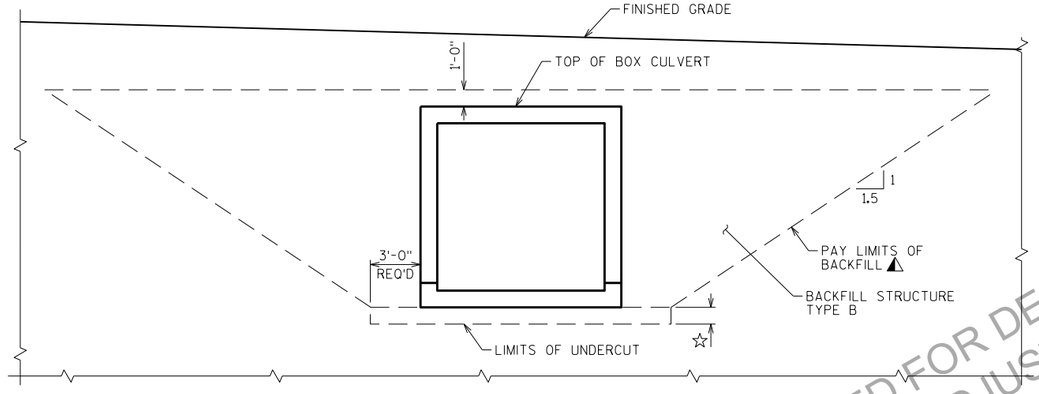
CORNER 4

CORNER DETAILS

◒ 3/4" FILLER, TYP. EXTEND FILLER FROM HORIZ. CONST. JT. TO TOP OF WING.

◪ 1" BEVEL, TYP.

▲ 18" RUBBERIZED MEMBRANE WATERPROOFING. EXTEND FROM HORIZ. CONST. JT. TO TOP OF WALL.



TYPICAL SECTION THRU BOX CULVERT

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

☆ UNDER CUT 1'-0". EXCAVATION FOR UNDER CUT TO BE INCLUDED IN EXCAVATION FOR STRUCTURES. PLACE "GEOTEXTILE TYPE C" AND BACKFILL WITH "BREAKER RUN".

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

APPROVED FOR DESIGN & UTILITY ADJUSTMENTS NOVEMBER 2019

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-44-122

DRAWN BY DFD | PLANS CK'D. JJS

DETAILS

SHEET 5

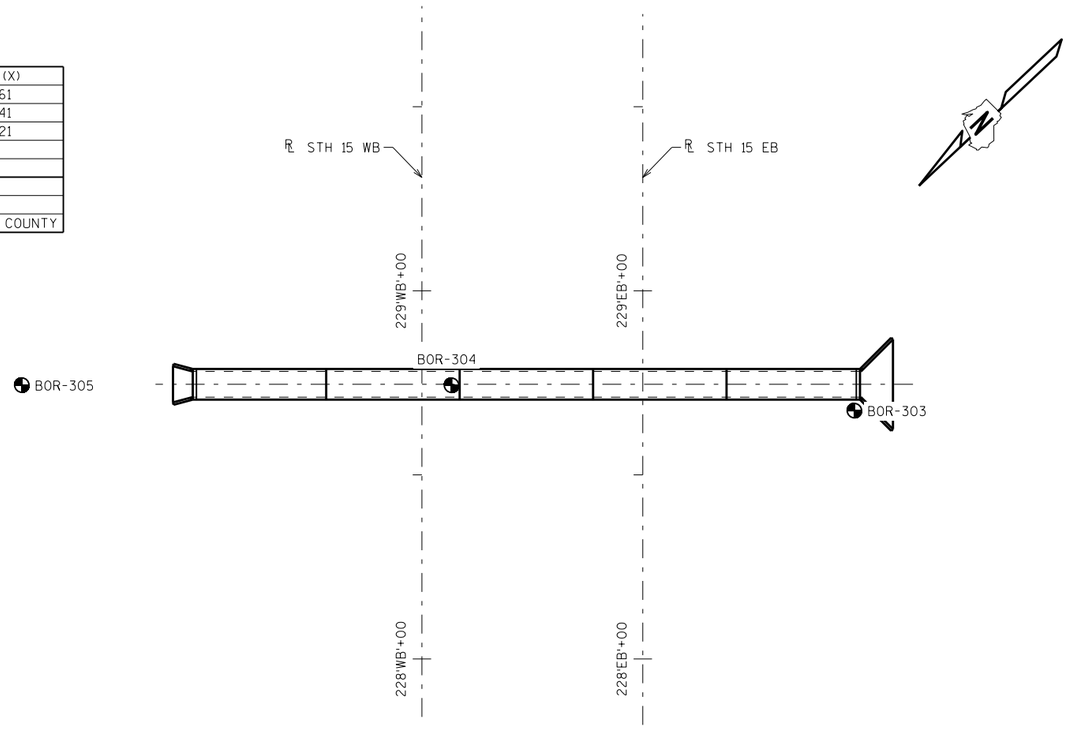
PRE_194

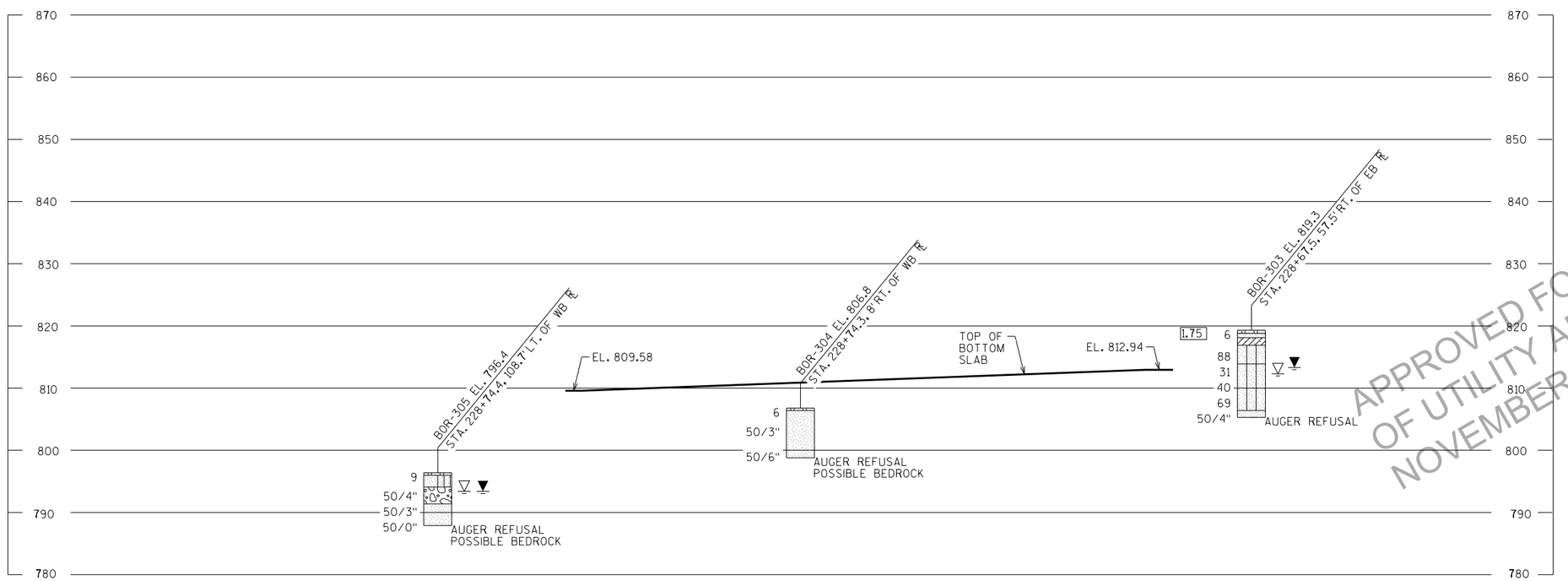
SCALE = 1.00

8

8

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
303	4/03/2014	595570	753761
304	4/03/2014	595645	753841
305	4/03/2014	595730	753921
BORINGS COMPLETED BY: GESTRA			
REPORT COMPLETED BY: CH2M HILL			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) OUTAGAMIE COUNTY			





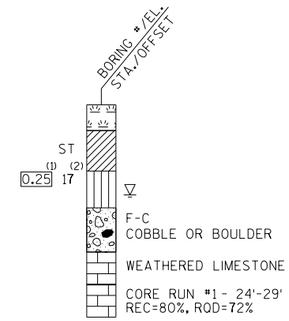
STATE PROJECT NUMBER

1146-75-73

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.

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2014

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-44-122

DRAWN BY TLP/DFD | PLANS CK'D. JJS

SUBSURFACE EXPLORATION

SHEET 6

PRE_195

SCALE = 20.00

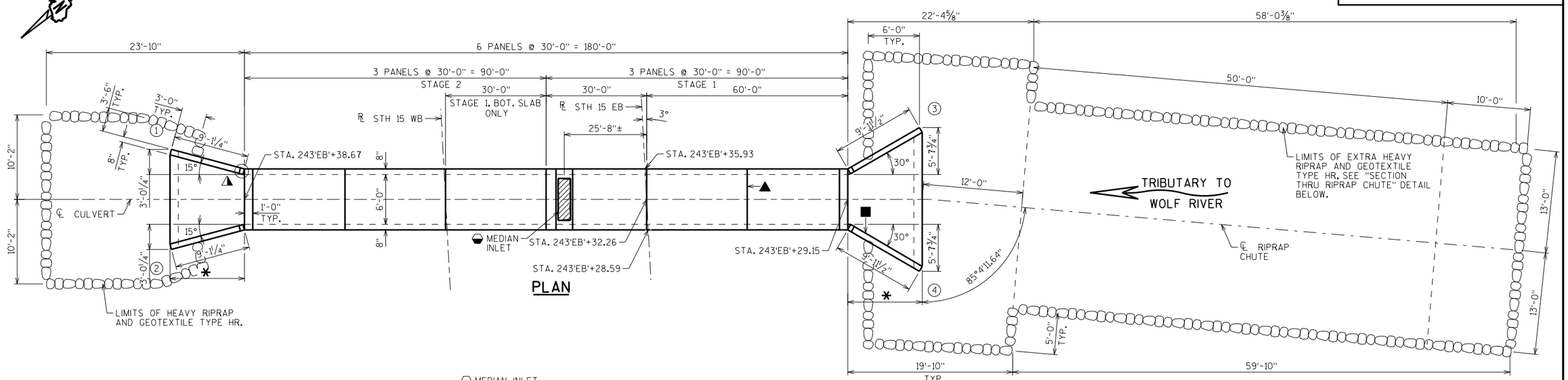
8

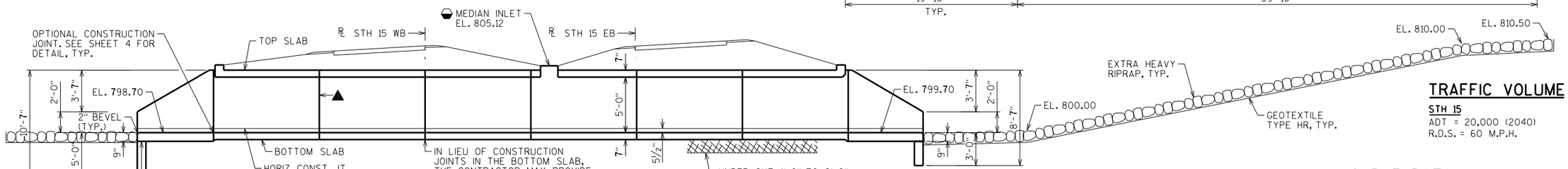
8

NOTE: STRUCTURE BACKFILL REQUIRED BEHIND ALL WING WALLS.

STATE PROJECT NUMBER

1146-75-73

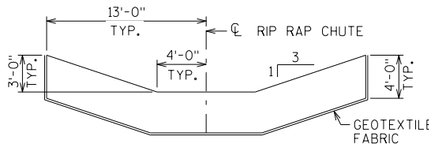




OUTLET

INLET

ELEVATION



SECTION THRU RIP RAP CHUTE

TRAFFIC VOLUME

STH 15
ADT = 20,000 (2040)
R.D.S. = 60 M.P.H.

CURVE DATA

STH 15 EB	STH 15 WB
P.I. = 245'EB'+38.39	P.I. = 245'WB'+26.67
△ = 22°06'05"	△ = 22°06'05"
D = 0°56'44"	D = 0°57'18"
T = 1183.51'	T = 1171.80'
L = 2337.60'	L = 2314.46'
R = 6060.00'	R = 6000.00'
S.E. = 2.6%	S.E. = 2.6%
P.C. = 233'EB'+54.88	P.C. = 233'EB'+54.88
P.T. = 256'EB'+92.48	P.T. = 256'EB'+69.34

STRUCTURE DESIGN CONTACTS:
STEVE DOOCY (608) 261-6063
AARON BONK (608) 261-0261

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.

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS C-44-123" SHALL BE THE EXISTING GROUND LINE.

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS.

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

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

PLACE 18" (MIN.) WIDE SHEET OF "RUBBERIZED MEMBRANE WATERPROOFING" ON TOP SLAB OVER ALL CONSTRUCTION JOINTS AND EXTEND DOWN TO BOTTOM OF OUTSIDE WALLS.

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

THE CONTRACTOR MAY ELECT TO SUBSTITUTE #1 OR #2 CONCRETE COARSE AGGREGATE, SELECT CRUSHED MATERIAL OR OTHER GRANULAR MATERIAL AS APPROVED BY THE FIELD ENGINEER, IN LIEU OF THE BREAKER RUN, TO BE UTILIZED AS A CONSTRUCTION PLATFORM FOR THE BOX. THE CONTRACTOR IS RESPONSIBLE FOR BASE STABILITY WITH ANY SUBSTITUTED MATERIAL.

APPLY BRIDGE SEAT PROTECTION PER STANDARD SPECIFICATION SECTION 502.3.12 TO THE SURFACES SHOWN ON SHEET 2.

HYDRAULIC DATA

100 YEAR FREQUENCY
Q_{100} = 280 C.F.S.
VEL. = 11.5 F.P.S.
$HW._{100}$ = EL. 807.0
WATERWAY AREA = 30 SQ. FT.
DRAINAGE AREA = 0.8 SQ. MI.
ROADWAY OVERTOPPING = N/A
SCOUR CRITICAL CODE = 8

2 YEAR FREQUENCY
Q_2 = 50 C.F.S.
$HW._2$ = EL. 801.9

TOTAL ESTIMATED QUANTITIES

BID ITEMS

203.0200	REMOVING OLD STRUCTURE STA. 243'EB'+32.26	1	LS
206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-44-123	1	LS
210.2500	BACKFILL STRUCTURE TYPE B	1,696	TON
311.0115	BREAKER RUN	200	CY
504.0100	CONCRETE MASONRY CULVERTS	114	CY
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	400	LB
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	22,055	LB
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	27	SY
606.0300	RIPRAP HEAVY	33	CY
606.0400	EXTRA RIPRAP HEAVY	327	CY
611.0642	INLET COVERS TYPE MS	2	EACH
645.0105	GEOTEXTILE TYPE C	405	SY
645.0120	GEOTEXTILE TYPE HR	385	SY

NON-BID ITEMS

FILLER	3/4"	SIZE
BRIDGE SEAT PROTECTION	1	LS

- △ SEE CORNER DETAILS
- ■ NAME PLATE LOCATION (SEE SHT 4)
- ✱ BUILD APRON AND END OF BOX LEVEL
- ▲ VERT. CONST. JOINT (TYP.)
- ◯ INDICATES WING NUMBER
- ⬙ MEDIAN INLET SEE SHEET 2 FOR DETAILS.

DESIGN DATA

LIVE LOAD:
DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF = 1.05
OPERATING RATING FACTOR: RF = 1.35
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 255(KIPS)

EARTHLOAD:
DESIGNED FOR 2.5 TO 5.0 FT. OF FILL.

MATERIAL PROPERTIES:
CONCRETE MASONRY: f'c = 3,500 P.S.I.
BAR STEEL REINFORCEMENT: fy = 60,000 P.S.I.

LIST OF DRAWINGS

1. GENERAL PLAN
2. BOX DETAILS
3. APRON DETAILS
4. DETAILS
5. STAGING DETAILS
6. SUBSURFACE EXPLORATION

APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

NO.	DATE	REVISION	BY

WISCONSIN DEPARTMENT OF TRANSPORTATION
BUREAU OF STRUCTURES

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE C-44-123

STH 15 OVER TRIBUTARY TO WOLF RIVER

COUNTY	TOWN
OUTAGAMIE	HORTONIA

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
SAD	LMK	SAD	JJS

GENERAL PLAN

SHEET 1 OF 6

PRE_196

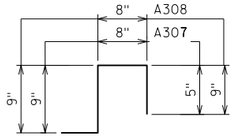
I.D. 1146-75-00E DATE: OCT. 2019

SCALE = 6.00

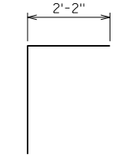
STATE PROJECT NUMBER

1146-75-73

PLAN VIEW
TYPICAL PANEL



A307, A308



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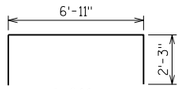

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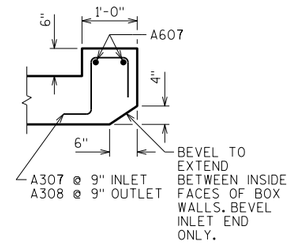
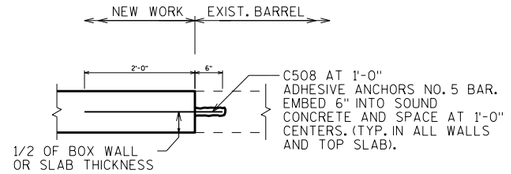


BILL OF BARS

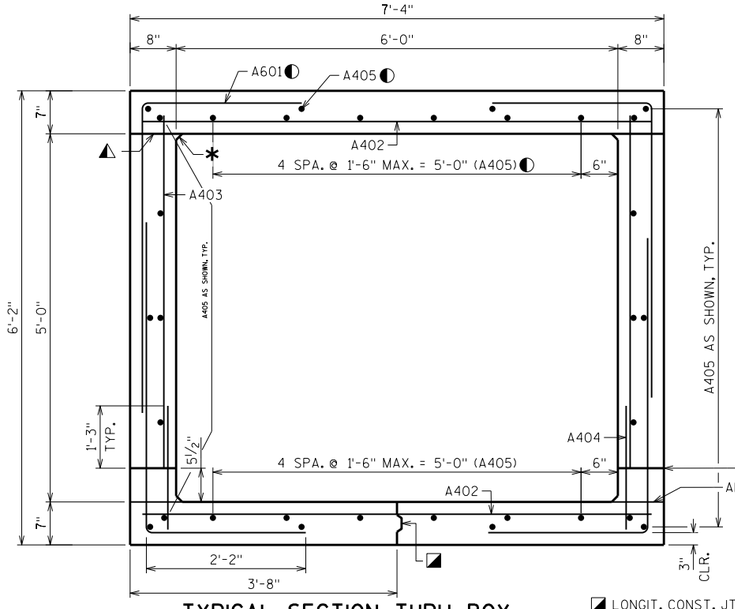
NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A601	X	1248	6'-6"	X		ALL CORNERS
A402	X	672	7'-0"			TRANS. - TOP AND BOTTOM SLAB
A403	X	360	4'-10"			VERT. - WALL
A404	X	360	2'-1"			VERT. - DOWEL
A405	X	192	29'-8"			LONGIT. - WALL, TOP AND BOT. SLAB
A406	X	4	6'-10"			HORIZ. - HEADERS
A307	X	10	2'-1"	X		STIRRUP - INLET HEADER
A308	X	10	2'-5"	X		STIRRUP - OUTLET HEADER
A809	X	4	6'-10"			LONGIT. - AT MEDIAN INLET
A410	X	2	11'-3"			TRANS. - AT MEDIAN INLET
A411	X	2	3'-6"	X		LONGIT. - AT MEDIAN INLET
A412	X	2	6'-4"			LONGIT. - AT MEDIAN INLET



VERTICAL CONSTRUCTION JOINT
TYP. WALLS AND TOP SLAB

SECTION THRU HEADER



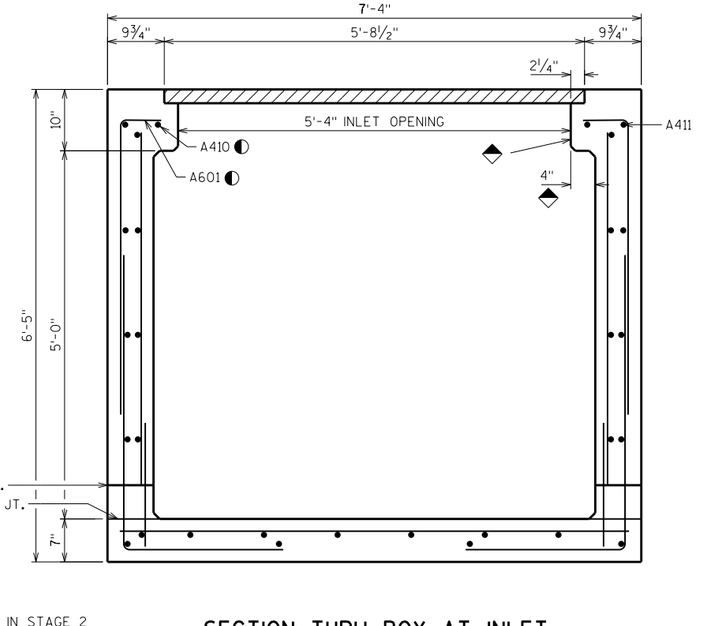
TYPICAL SECTION THRU BOX

* 1" FILLET - TYPICAL ALL CORNERS.

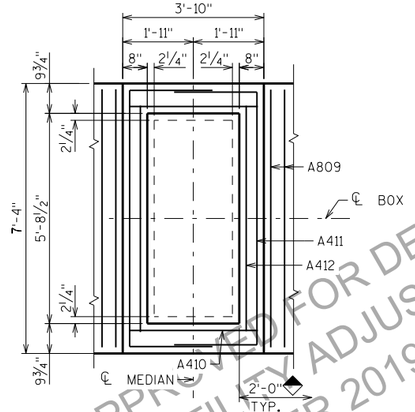
⚠ OPTIONAL CONST. JOINT. OMIT 1" FILLET IF OPTIONAL CONST. JOINT IS USED.

◪ LONGIT. CONST. JT. LOCATED IN STAGE 2 PANEL ADJACENT TO STAGE 1 CONST. JT. KEYWAY FORMED BY BEVELED 2X4.

◓ OMIT 1" FILLET IF ALTERNATE CONSTRUCTION JOINT IS USED.



SECTION THRU BOX AT INLET

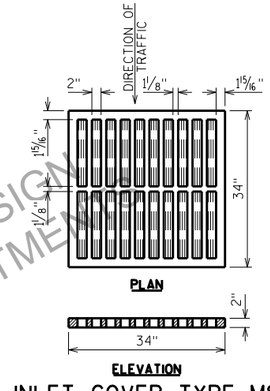


PLAN AT INLET
SEE SHEET 1 FOR LOCATION

◐ FIELD CUT BAR STEEL REINFORCEMENT IN TOP SLAB 2" CLEAR OF OPENING PROVIDED FOR MEDIAN INLET.

ADJUSTMENT OF THE COVER TO GRADE MAY BE ACCOMPLISHED BY THE USE OF MORTAR AND BRICK. MAXIMUM ADJUSTMENT SHALL BE 8".

◈ APPLY BRIDGE SEAT PROTECTION TO INSIDE FACES AND BOTTOM OF TOP SLAB AS SHOWN. BRIDGE SEAT PROTECTION TO BE INCIDENTAL TO "CONCRETE MASONRY CULVERTS".



INLET COVER TYPE MS

APPROVED FOR DESIGN
NOTIFY ADJUSTMENTS
NOVEMBER 2019

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-44-123

DRAWN BY SAD | PLANS CK'D. JJS

BOX DETAILS

SHEET 2

PRE_197

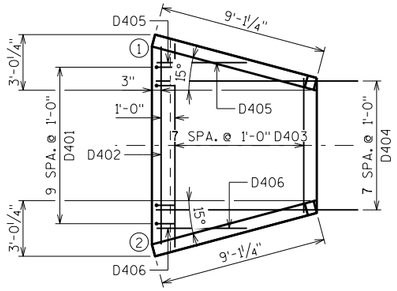
8

8

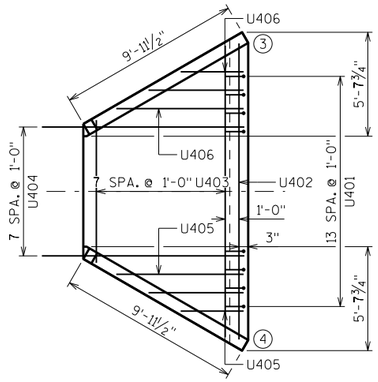
SCALE = 2.00

STATE PROJECT NUMBER

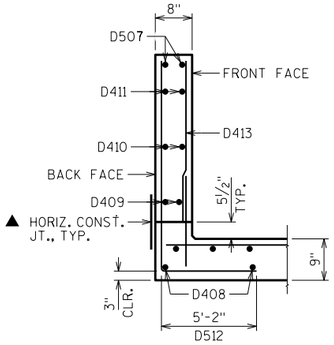
1146-75-73



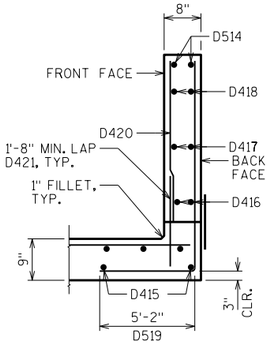
OUTLET APRON PLAN



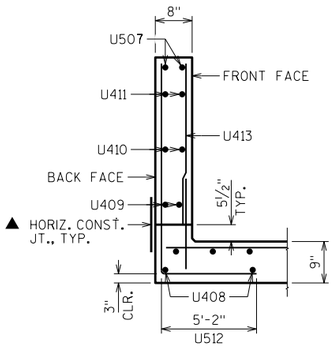
INLET APRON PLAN



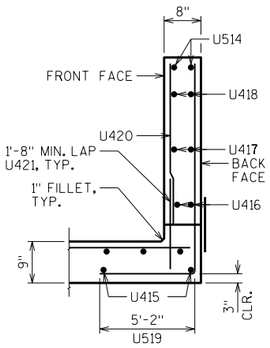
WING 2 SECTION



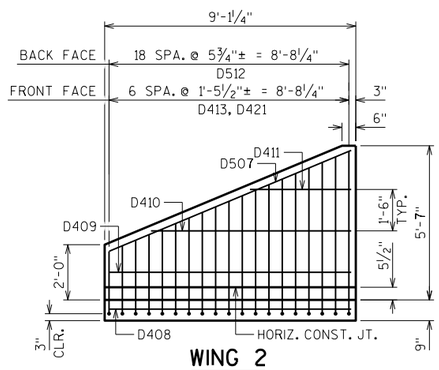
WING 1 SECTION



WING 3 SECTION

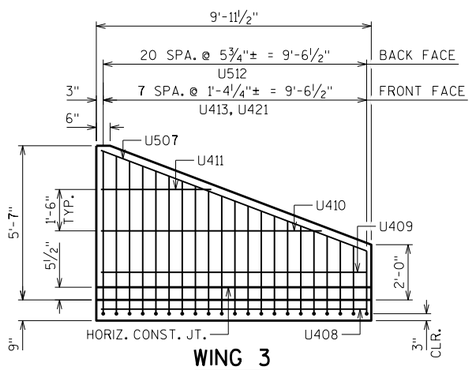


WING 4 SECTION



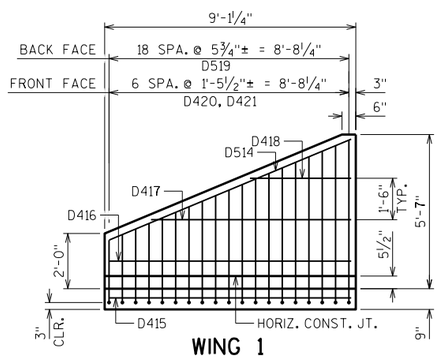
WING 2

SHOWING BACK FACE REINFORCEMENT



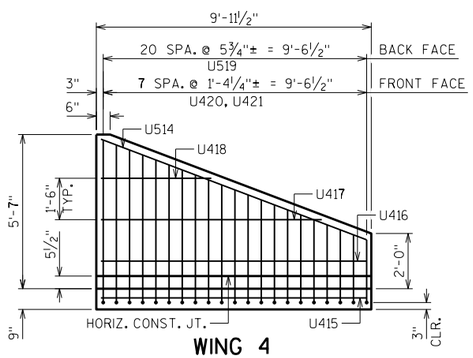
WING 3

SHOWING BACK FACE REINFORCEMENT



WING 1

SHOWING BACK FACE REINFORCEMENT



WING 4

SHOWING BACK FACE REINFORCEMENT

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

▲ 18" RUBBERIZED MEMBRANE WATERPROOFING, PLACE ALONG HORIZ. CONST. JT. FOR ENTIRE WING LENGTH, TYP.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-44-123

DRAWN BY SAD | PLANS CK'D. JJS

SHEET 3

APRON DETAILS

PRE_198

SCALE = 4.00

8

8

STATE PROJECT NUMBER

1146-75-73

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
U401		14	3'-6"	X		INLET APRON AND CUTOFF WALL VERT.
U402		3	16'-1"			INLET APRON AND CUTOFF WALL HORIZ.
U403		8	11'-9.5"		⚠	INLET APRON SLAB HORIZ.
U404		8	11'-0"			INLET APRON AND BOX SLAB HORIZ.
U405		3	5'-2"		⚠	INLET APRON SLAB HORIZ.
U406		3	5'-2"		⚠	INLET APRON SLAB HORIZ.
U507	X	2	9'-11"			WING 3 HORIZ. TOP BOTH FACES
U408	X	2	9'-6"			WING 3 HORIZ. APRON SLAB
U409	X	2	9'-6"			WING 3 HORIZ. BOTTOM BOTH FACES
U410	X	2	8'-0"			WING 3 HORIZ.
U411	X	2	4'-0"			WING 3 HORIZ.
U512	X	21	9'-2"	X	⚠	WING 3 VERT. BACK FACE
U413	X	8	3'-2"		⚠	WING 3 VERT. FRONT FACE
U514	X	2	9'-11"			WING 4 HORIZ. TOP BOTH FACES
U415	X	2	9'-6"			WING 4 HORIZ. APRON SLAB
U416	X	2	9'-6"			WING 4 HORIZ. BOTTOM BOTH FACES
U417	X	2	8'-0"			WING 4 HORIZ.
U418	X	2	4'-0"			WING 4 HORIZ.
U519	X	21	9'-2"	X	⚠	WING 4 VERT. BACK FACE
U420	X	8	3'-2"		⚠	WING 4 VERT. FRONT FACE
U421	X	16	2'-8"			WINGS 3 & 4 DOWELS FRONT FACE
D401		10	5'-6"	X		OUTLET APRON AND CUTOFF WALL VERT.
D402		5	10'-9"			OUTLET APRON AND CUTOFF WALL HORIZ.
D403		8	9'-3"		⚠	OUTLET APRON SLAB HORIZ.
D404		8	11'-0"			OUTLET APRON AND BOX SLAB HORIZ.
D405		1	4'-11"			OUTLET APRON SLAB HORIZ.
D406		1	4'-11"			OUTLET APRON SLAB HORIZ.
D507	X	2	9'-2"			WING 1 HORIZ. TOP BOTH FACES
D408	X	2	8'-8"			WING 1 HORIZ. APRON SLAB
D409	X	2	8'-8"			WING 1 HORIZ. BOTTOM BOTH FACES
D410	X	2	7'-3"			WING 1 HORIZ.
D411	X	2	3'-8"			WING 1 HORIZ.
D512	X	19	9'-2"	X	⚠	WING 1 VERT. BACK FACE
D413	X	7	3'-2"		⚠	WING 1 VERT. FRONT FACE
D514	X	2	9'-2"			WING 2 HORIZ. TOP BOTH FACES
D415	X	2	8'-8"			WING 2 HORIZ. APRON SLAB
D416	X	2	8'-8"			WING 2 HORIZ. BOTTOM BOTH FACES
D417	X	2	7'-3"			WING 2 HORIZ.
D418	X	2	3'-8"			WING 2 HORIZ.
D519	X	19	9'-2"	X	⚠	WING 2 VERT. BACK FACE
D420	X	7	3'-2"		⚠	WING 2 VERT. FRONT FACE
D421	X	14	2'-8"			WINGS 1 & 2 DOWELS FRONT FACE

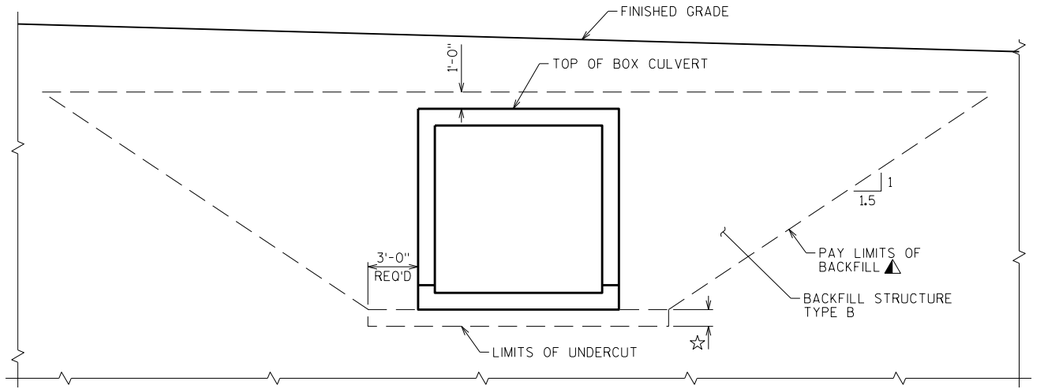
⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

◨ CUT TO FIT TO MAINTAIN 2" CLEAR

BAR SERIES TABLE

BAR MARK	NO. REQ'D	LENGTH
U403	1 SERIES OF 8	7'-9" TO 15'-10"
U405	1 SERIES OF 3	3'-5" TO 6'-11"
U406	1 SERIES OF 3	3'-5" TO 6'-11"
U512	1 SERIES OF 21	7'-4" TO 10'-11"
U413	1 SERIES OF 8	1'-5" TO 4'-11"
U519	1 SERIES OF 21	7'-4" TO 10'-11"
U420	1 SERIES OF 8	1'-5" TO 4'-11"
D403	1 SERIES OF 7	7'-4" TO 11'-1"
D512	1 SERIES OF 19	7'-4" TO 10'-11"
D413	1 SERIES OF 7	1'-5" TO 4'-11"
D519	1 SERIES OF 19	7'-4" TO 10'-11"
D420	1 SERIES OF 7	1'-5" TO 4'-11"

BUNDLE AND TAG EACH SERIES SEPARATELY

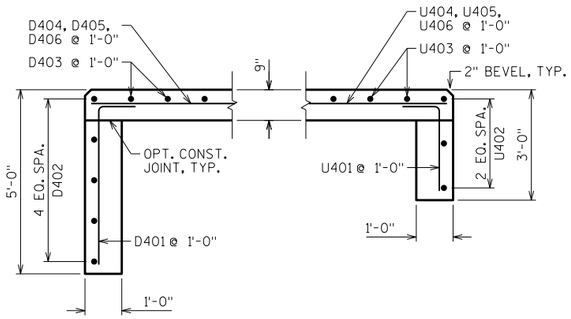


TYPICAL SECTION THRU BOX CULVERT

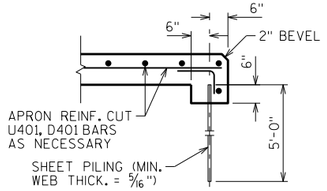
⚠ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

☆ UNDER CUT 1'-0" TO 2'-0". EXCAVATION FOR UNDER CUT TO BE INCLUDED IN EXCAVATION FOR STRUCTURES. PLACE "GEOTEXTILE TYPE C" AND BACKFILL WITH "BREAKER RUN".

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

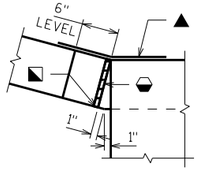


CUT-OFF WALLS

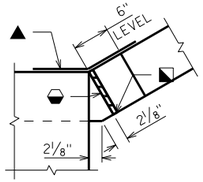


ALTERNATE CUT-OFF WALLS

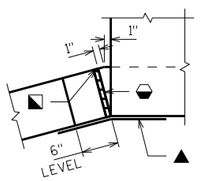
THE ABOVE ALTERNATIVE MAY BE USED IN LIEU OF CAST-IN-PLACE CONCRETE CUT-OFF WALLS. PAYMENT WILL BE BASED ON THE CONCRETE CUT-OFF WALLS.



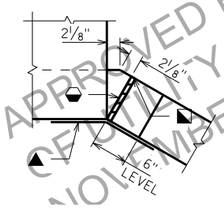
CORNER 1



CORNER 3



CORNER 2



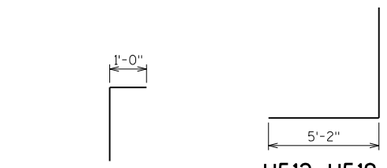
CORNER 4

CORNER DETAILS

◒ 3/4" FILLER, TYP. EXTEND FILLER FROM HORIZ. CONST. JT. TO TOP OF WING.

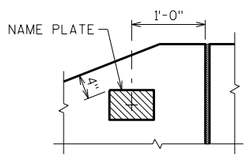
◪ 1" BEVEL, TYP.

▲ 18" RUBBERIZED MEMBRANE WATERPROOFING. EXTEND FROM HORIZ. CONST. JT. TO TOP OF WALL.

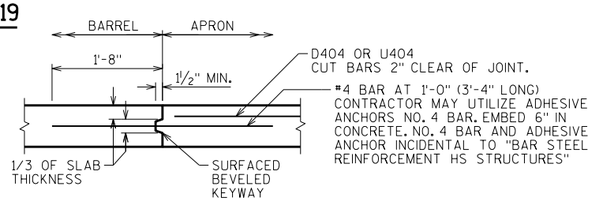


U401, D401

U512, U519, D512, D519



NAME PLATE LOCATION WING 4



OPTIONAL CONSTRUCTION JOINT

2" DEEP SAW CUT WITHIN 12 HOURS AFTER POURING MAY BE USED IN LIEU OF CONST. JT. IN BOTTOM SLAB.

APPROVED FOR DESIGN CONTINGENCY ADJUSTMENTS NOVEMBER 2019

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-44-123

DRAWN BY SAD | PLANS CK'D. JJS

DETAILS

SHEET 4

PRE_199

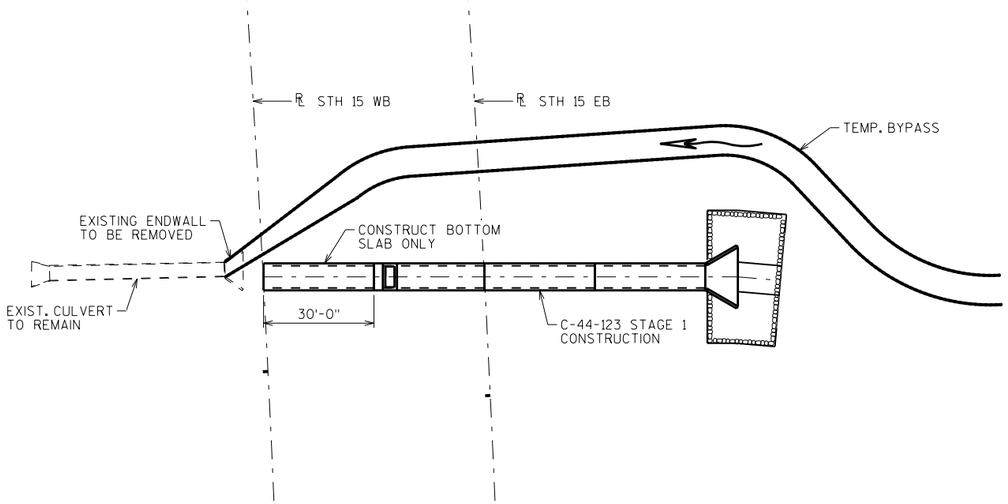
SCALE = 1.00

8

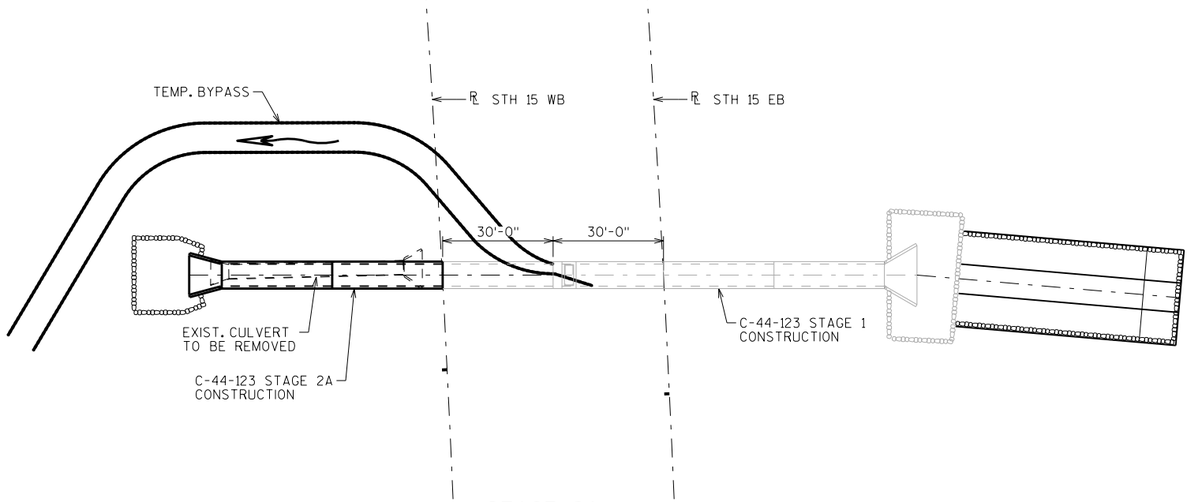
8

STATE PROJECT NUMBER

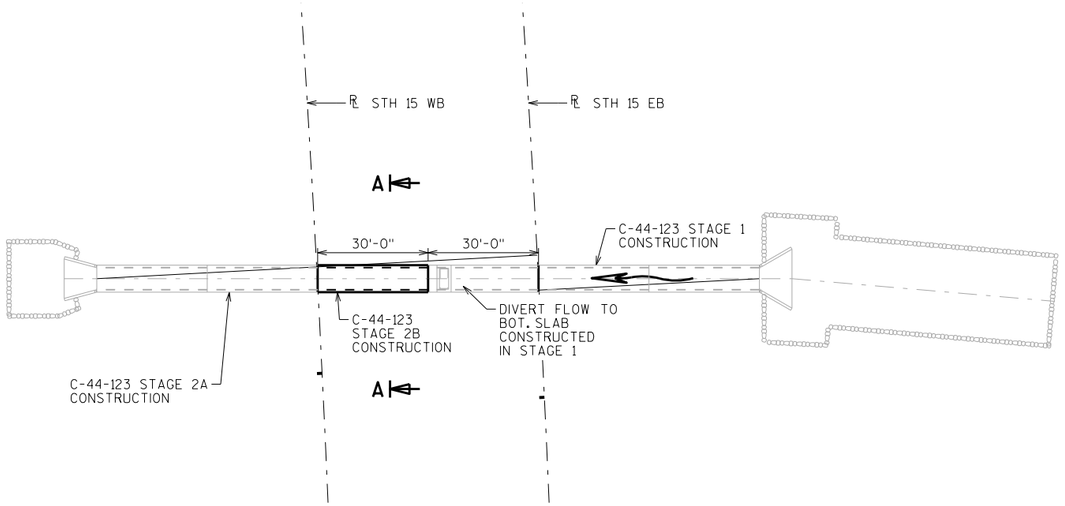
1146-75-73



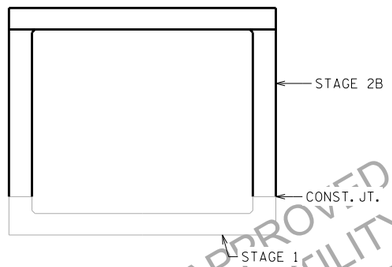
STAGE 1



STAGE 2A



STAGE 2B



SECTION A-A

APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-44-123

DRAWN BY SAD | PLANS CK'D. JJS

STAGING DETAILS

SHEET 5

PRE_200

SCALE = 20.00

8

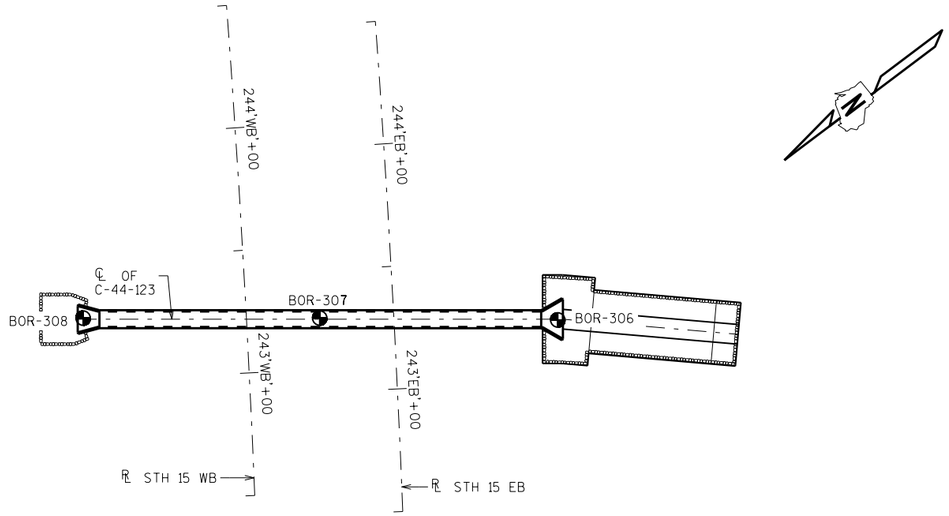
8

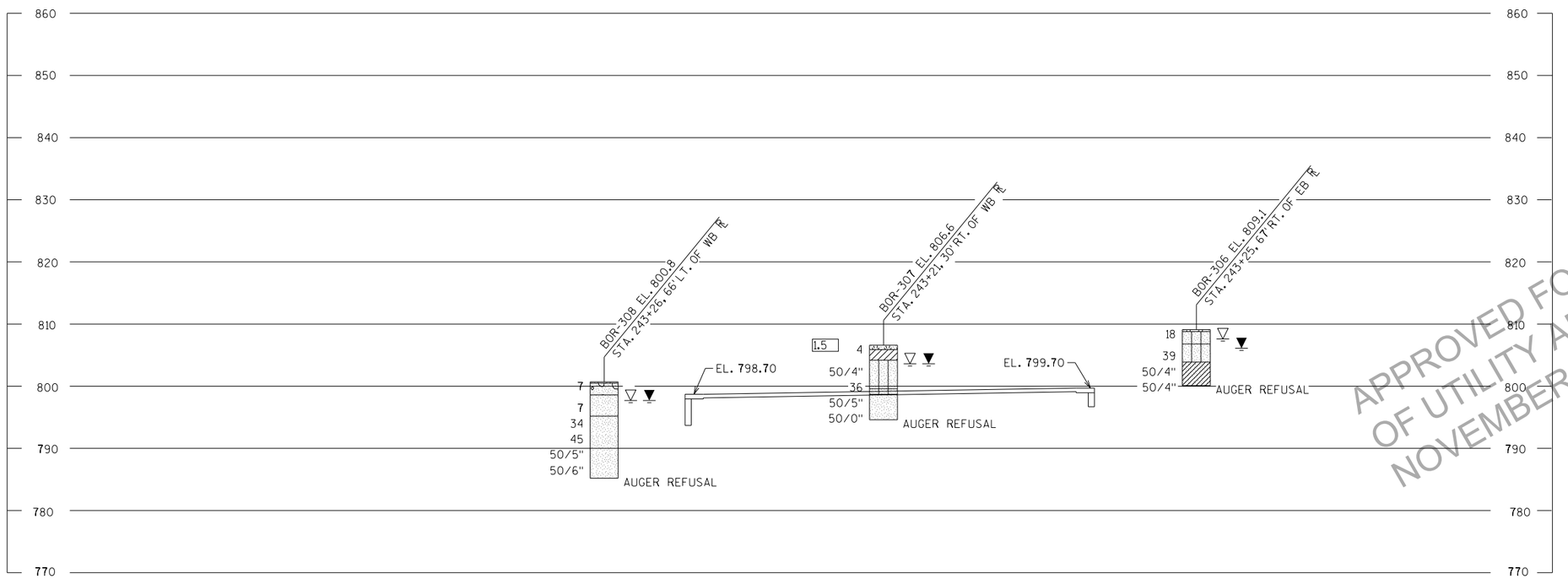
BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
306	4/04/2014	594618	754875
307	4/04/2014	594695	754934
308	4/04/2014	594772	754992

BORINGS COMPLETED BY: GESTRA

REPORT COMPLETED BY: CH2MHILL

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





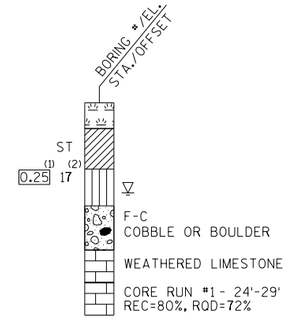
STATE PROJECT NUMBER

1146-75-73

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.

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2014

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-44-123

DRAWN BY TLP/SAD | PLANS CK'D. JJS

SUBSURFACE EXPLORATION

SHEET 6

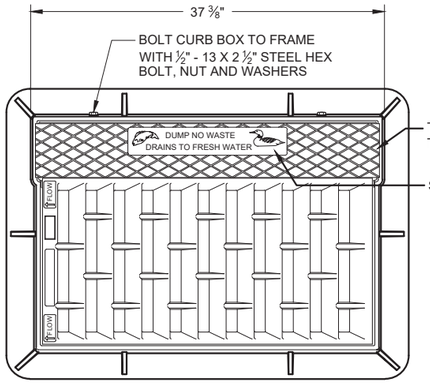
PRE_201

SCALE = 30.00

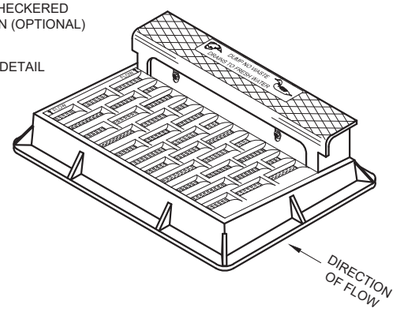
8

8

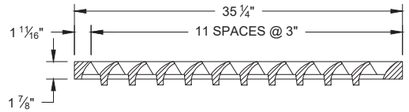
SDD 8a5-a Inlet Covers Type A, H, A-S, H-S and Z

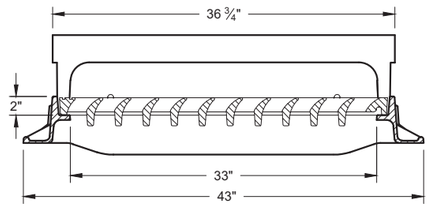


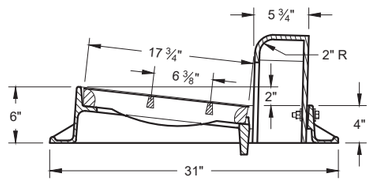
NOTE: EITHER CASTING IS ACCEPTABLE

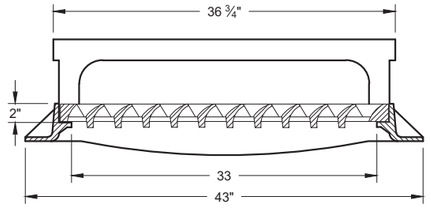


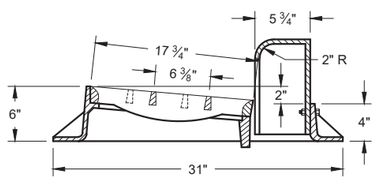
NOTE: CURB BOX HEIGHT ADJUSTABLE 6" - 9"







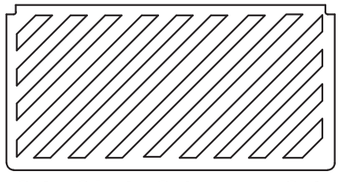




TYPE "H"

NOTE: EITHER CASTING IS ACCEPTABLE

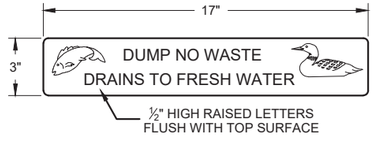
1 ⅛" DIAGONAL BARS WITH 1 ⅝" OPENINGS



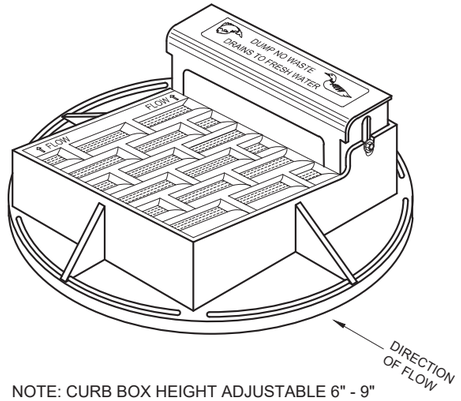
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35" X 17 ¾" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)

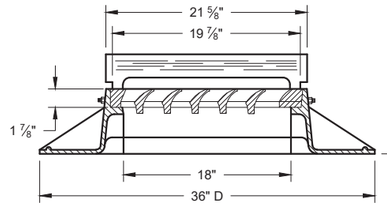


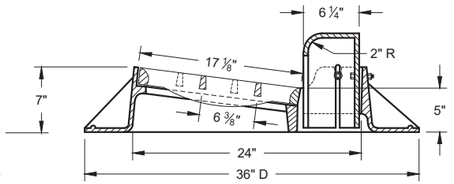
LOGO DETAIL

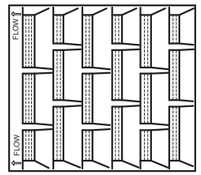


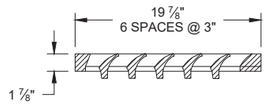
NOTE: CURB BOX HEIGHT ADJUSTABLE 6" - 9"

NOTE: EITHER CASTING IS ACCEPTABLE



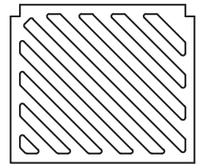






TYPE "A"

1" DIAGONAL BARS WITH 1 ½" OPENINGS



SPECIAL GRATE FOR TYPE "A" COVER

(MEASURES 19 ¾" X 17" X 1 ⅞")

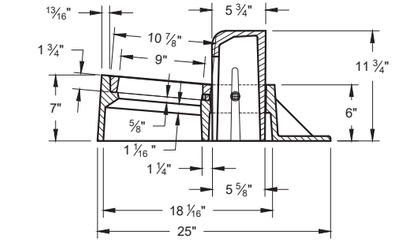
(NOTED AS TYPE A-S ON DRAINAGE TABLE)

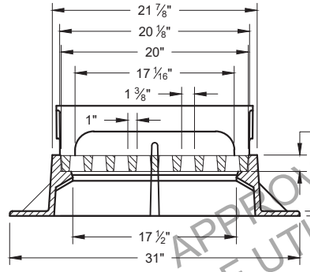
GENERAL NOTES

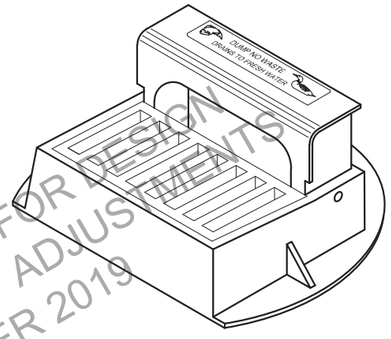
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.







TYPE "Z"

APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

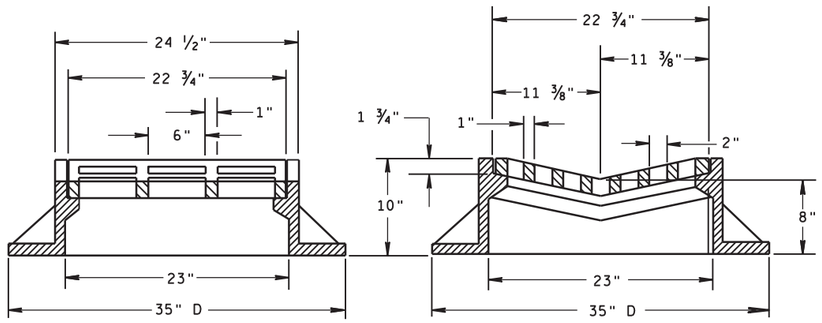
INLET COVERS TYPE A, H, A-S, H-S & Z

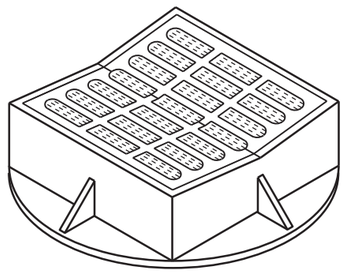
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11-27-13 — DATE
/S/ Jerry H. Zogg — APPROVING ENGINEER
FHWA

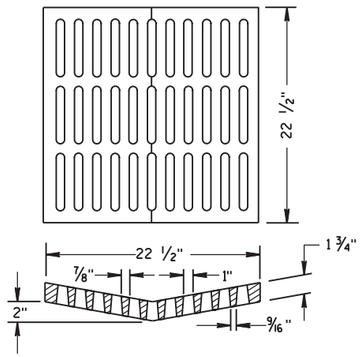
PRE_202

SDD 8a5-b Inlet Covers Type B, B-A, C, MS, MS-A, and WM



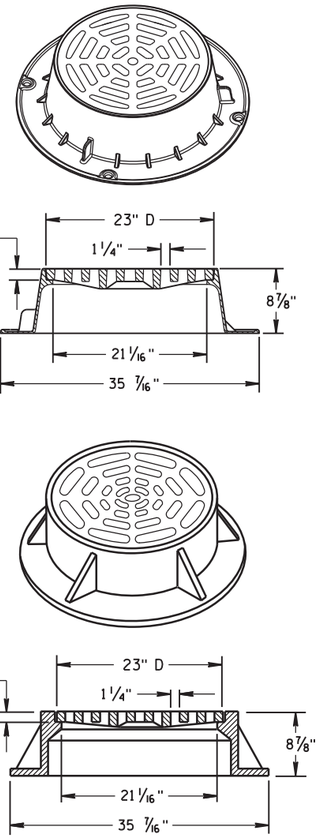


TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.
NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

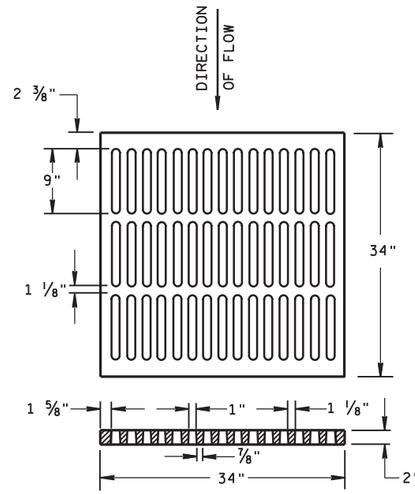
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

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

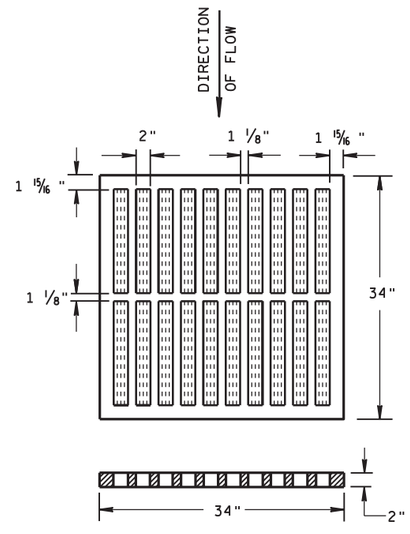
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



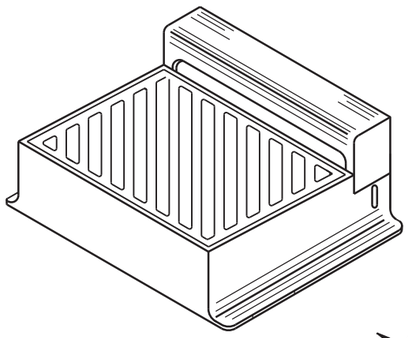
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

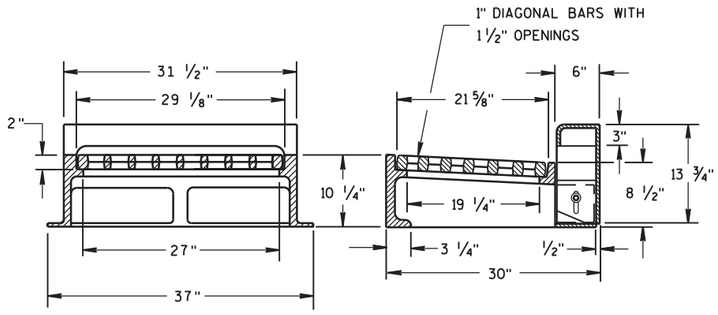


TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS
NOTED AS TYPE MS ON DRAINAGE TABLE



DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

INLET COVERS
TYPE B, B-A, C,
MS, MS-A, & WM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
FHWA

PRE_203

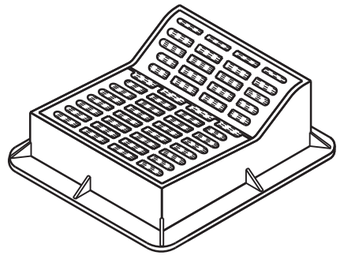
6

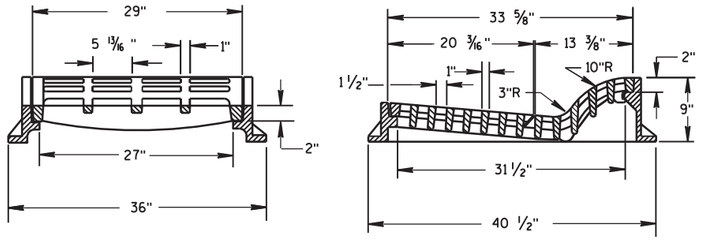
S.D.D. 8 A 5-19b

6

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

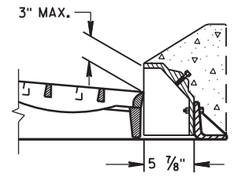
SDD 8a5-c Inlet Covers Type F, HM, HM-S, S, T, V, HM-GJ, and HM-GJ-S





TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

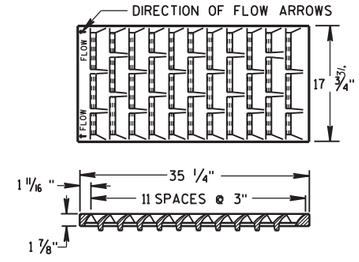
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

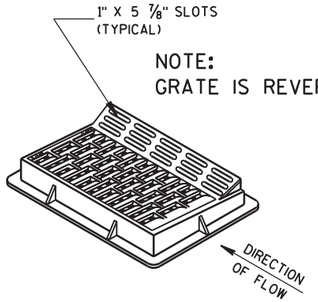
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

GENERAL NOTES

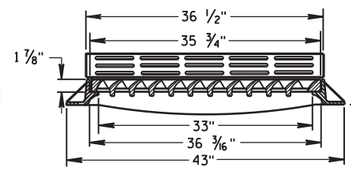
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

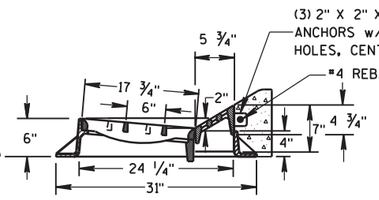
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.





NOTE:
GRATE IS REVERSIBLE.

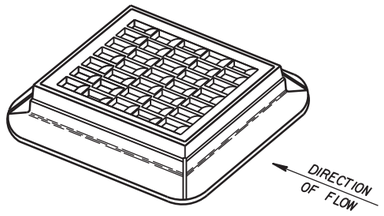


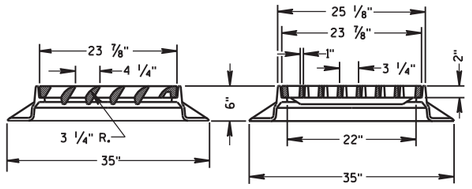


TYPE "HM"

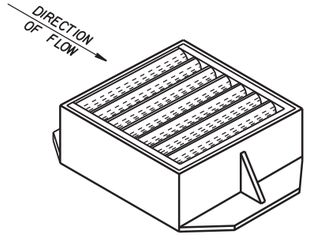
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

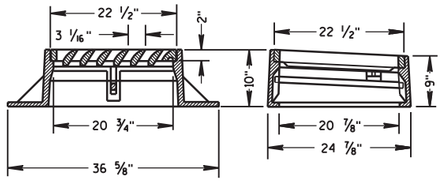
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



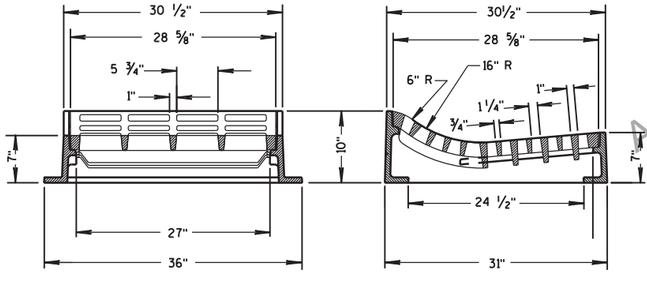


TYPE "S"



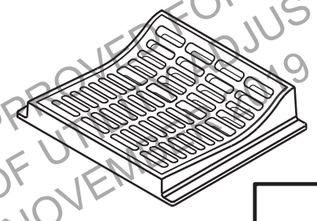


TYPE "V"



TYPE "T"

USE WITH TYPES R & T CONCRETE CURB & GUTTER, 36 INCH.



APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

INLET COVERS
TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

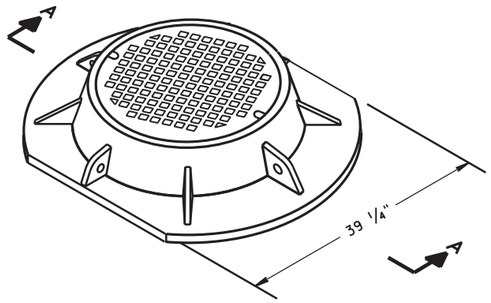
APPROVED
11/27/2013
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
FHWA

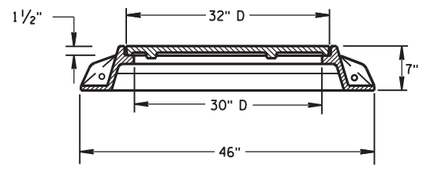
PRE_204

6

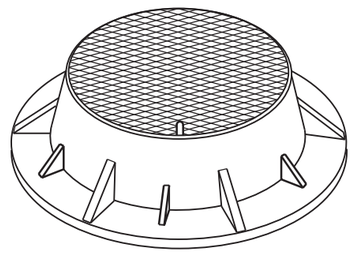
S.D.D. 8 A 5-19c

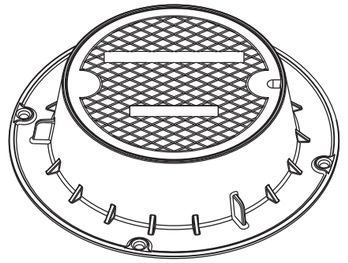
SDD 8a5-d Inlet Covers Type BW; Manhole Covers Type J, J-S, K, L and M

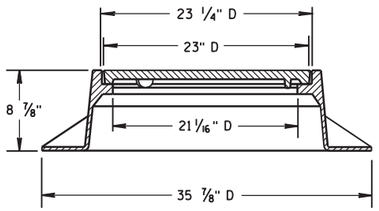


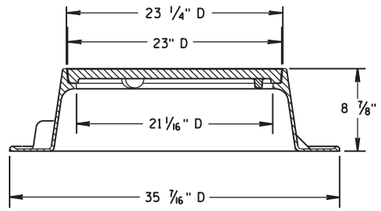


SECTION A-A
TYPE "K"









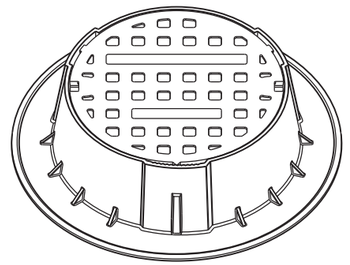
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

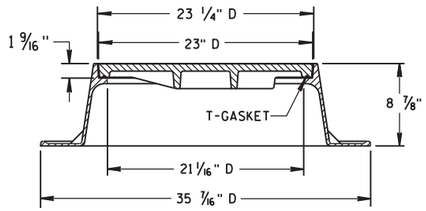
GENERAL NOTES

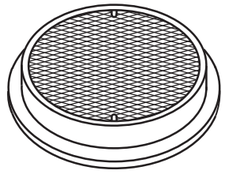
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

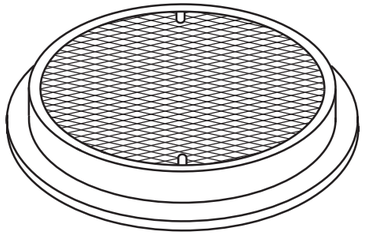
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

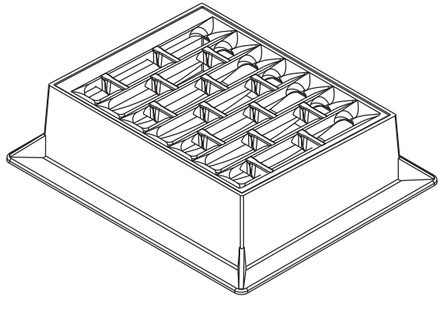
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

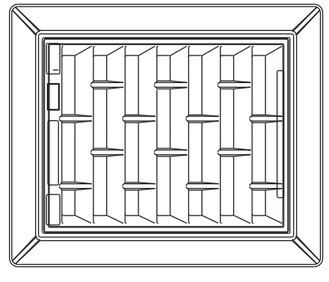


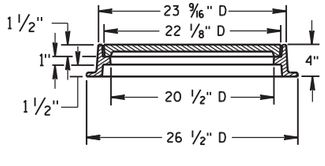












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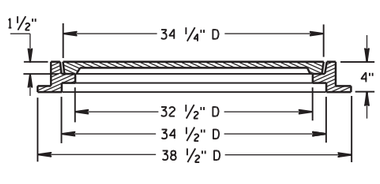

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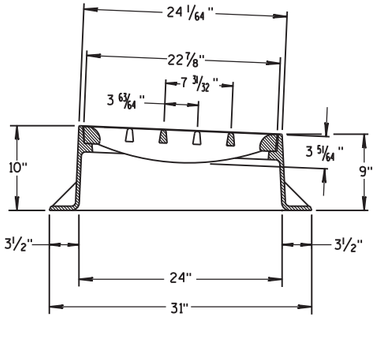
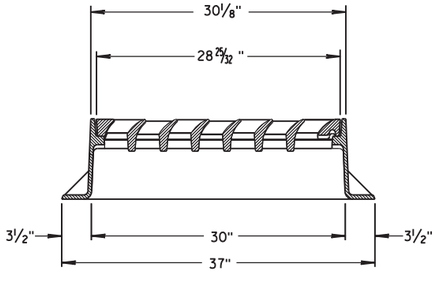
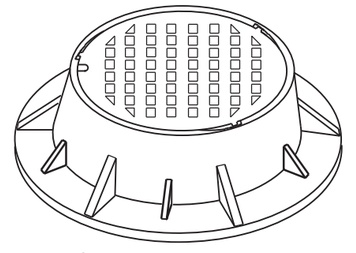
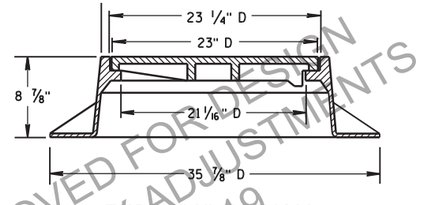




INLET COVER TYPE "BW"





TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

INLET COVER TYPE BW
MANHOLE COVERS, TYPE K,
J, J-S, L & M

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

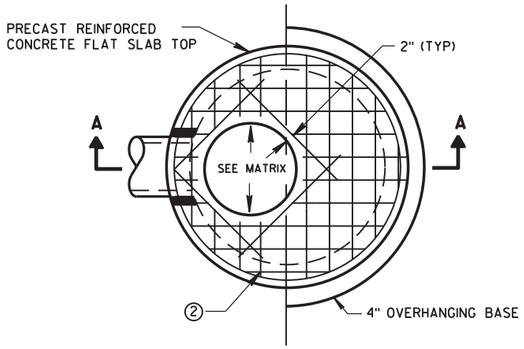
APPROVED
11/27/2013
DATE
FHWA

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

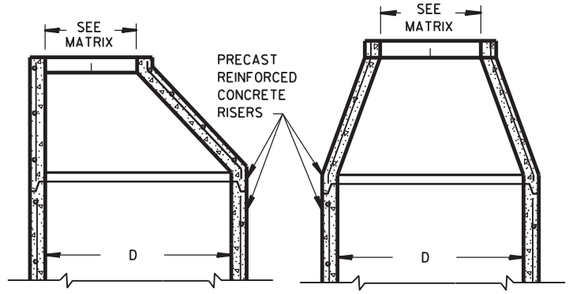
PRE_205

6
S.D.D. 8 A 5-19d

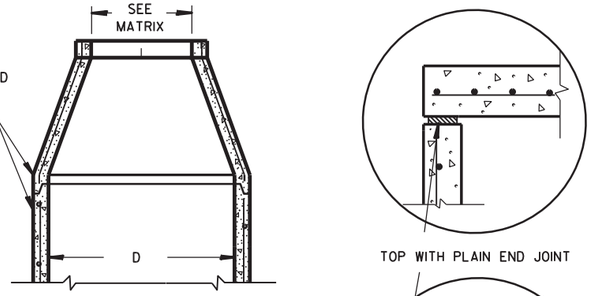
SDD 8a8 Catch Basins 3-FT, 4-FT, 5-FT and 6-FT Diameter



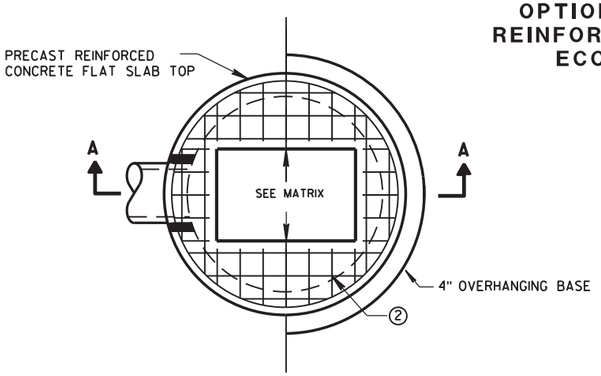
PLAN VIEW CIRCULAR OPENING



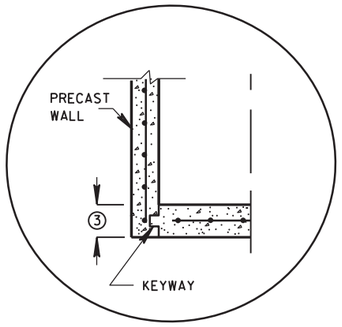
OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP



OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP



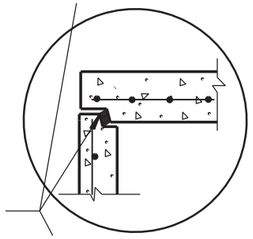
PLAN VIEW RECTANGULAR OPENING



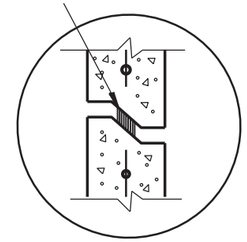
PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

TOP WITH PLAIN END JOINT

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)

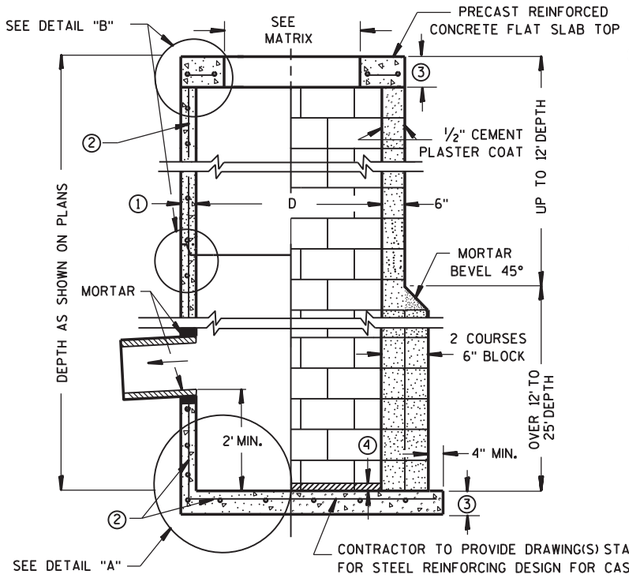


TOP WITH TONGUE AND GROOVE JOINT



RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

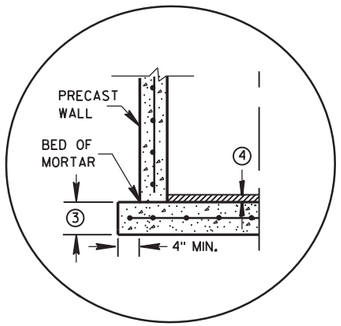


CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES

SECTION A-A

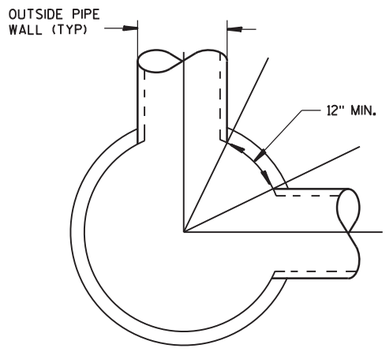
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

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



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST CATCH BASIN UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONCRETE CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½ INCH AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

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

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT AND 7 INCHES FOR 6-FT DIAMETER PRECAST CATCH BASINS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

④ 1" CONCRETE KEY POURED AFTER INSTALLATION. 2' SUMP MEASURED FROM TOP OF KEY.

CATCH BASIN COVER OPENING MATRIX

CATCH BASIN SIZE	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
	OPENING SIZE (FT)											
3-FT	2X2	X	X					X		X		
	2 DIA.				X							X
4-FT-6-FT	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2 DIA.				X							X
	2X3						X					
	2.5X3					X						

PIPE MATRIX

CATCH BASIN SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	30

APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER

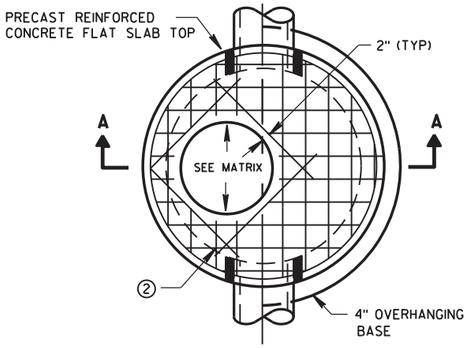
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016
DATE
/S/ Rodney Taylor
ROADWAY STANDA NT
UNIT SU
FHWA

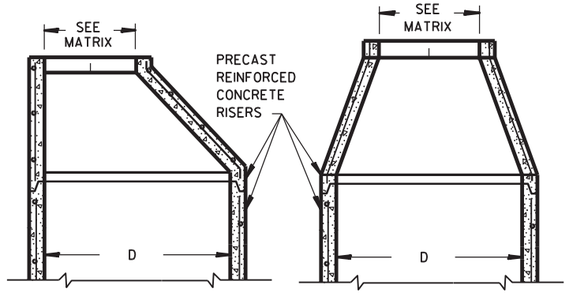
PRE_206

CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER

SDD 8b9 Manholes 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, and 8-FT Diameter

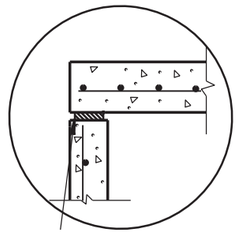


PLAN VIEW CIRCULAR OPENING

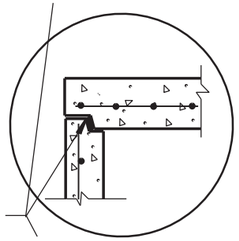


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

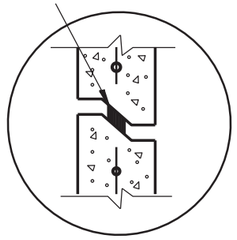


TOP WITH PLAIN END JOINT



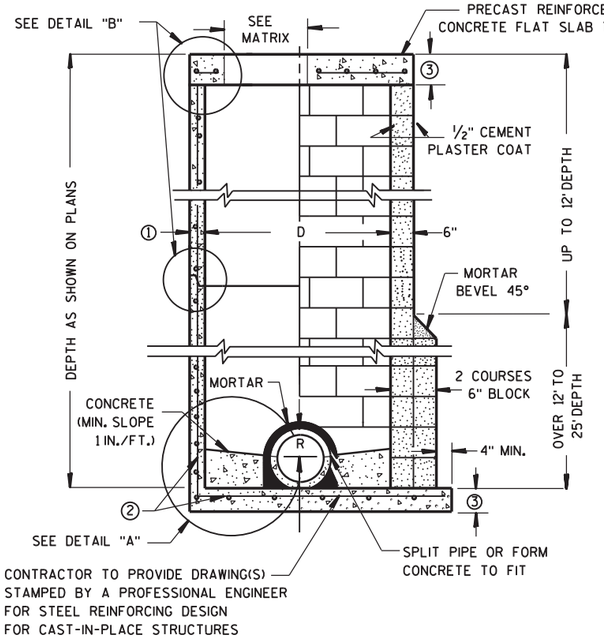
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



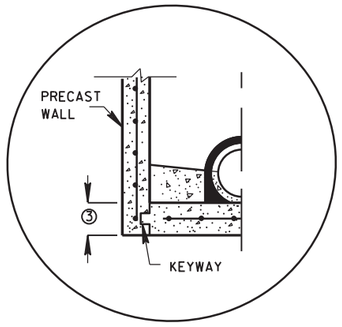
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

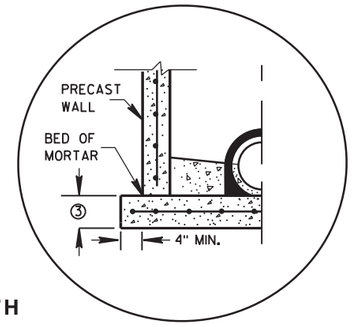


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

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

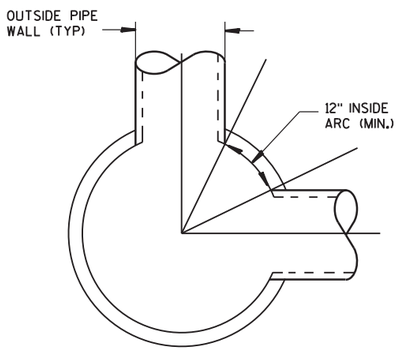


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

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STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

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② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

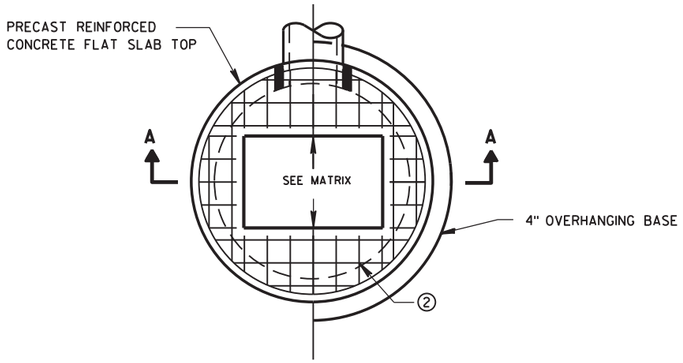
APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

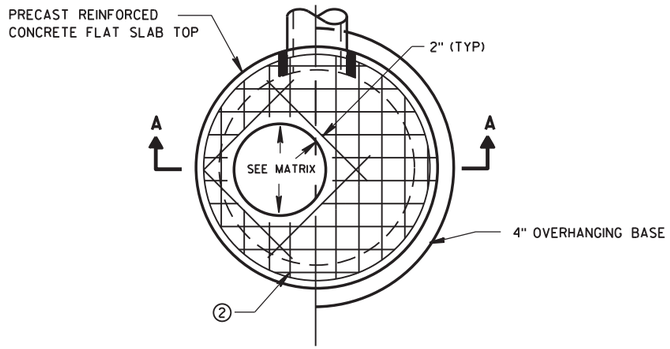
MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

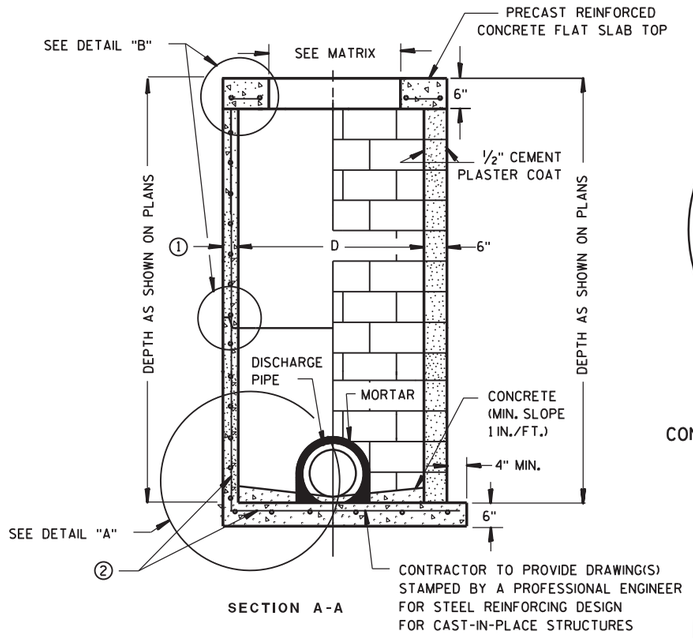
APPROVED
Sept., 2016
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SU PRE_207
FHWA



PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

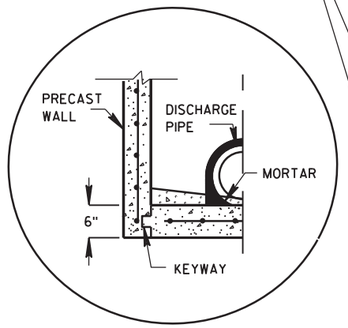


SECTION A-A

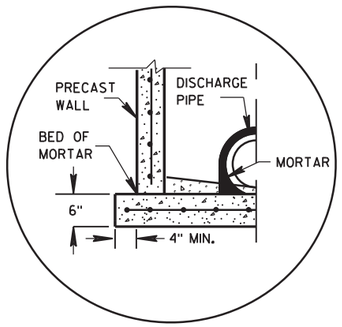
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

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

CIRCULAR INLETS W/ FLAT TOP

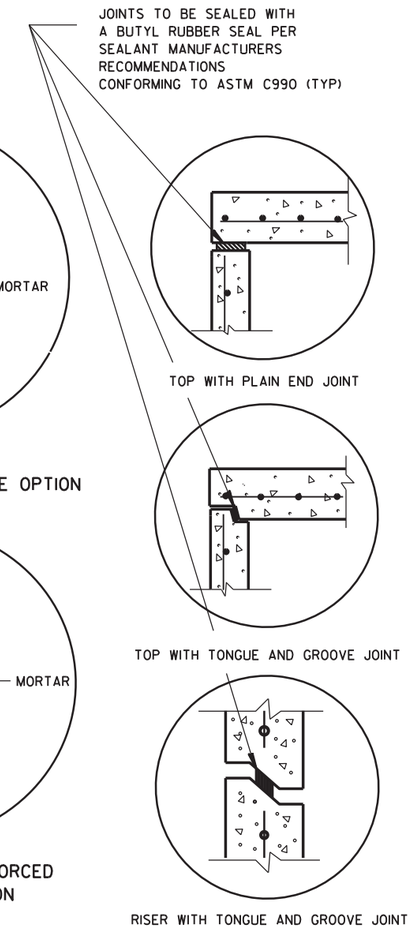


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "B"

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

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

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

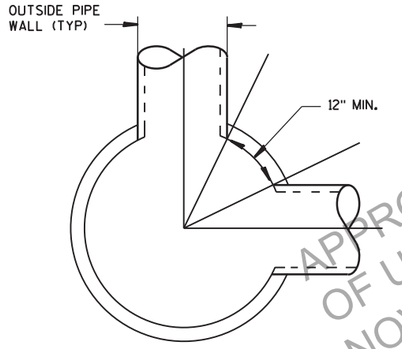
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

INLET COVER OPENING MATRIX

	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
INLET SIZE	OPENING SIZE (FT)											
3-FT	2 DIA.				X							X
	2X2	X	X					X		X		
4-FT	2 DIA.				X							X
	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2X3						X					
	2.5X3					X						



DETAIL "C"

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18

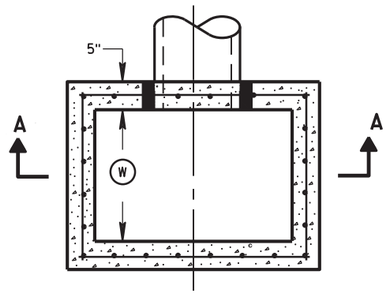
APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

INLETS 3-FT AND 4-FT DIAMETER

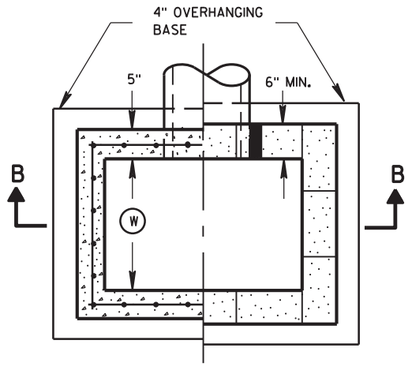
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept.. 2016 — DATE
/S/ Rodney Taylor
ROADWAY STANDA NT
UNIT SU PRE_208
FHWA

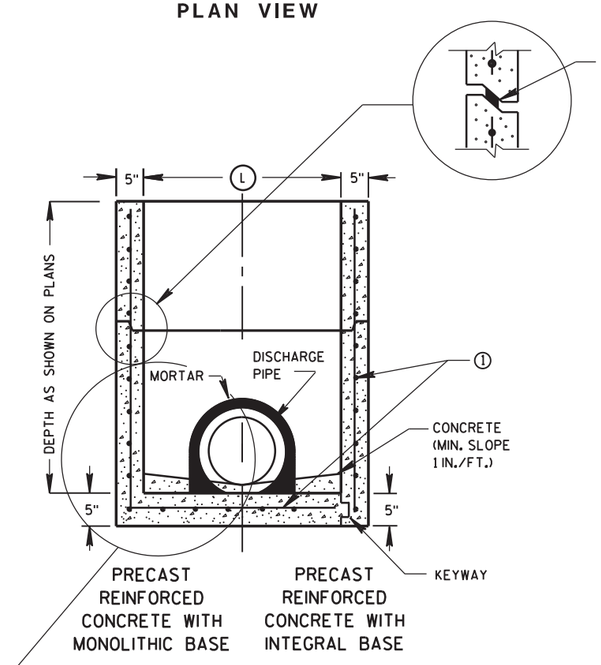
INLETS 3-FT AND 4-FT DIAMETER



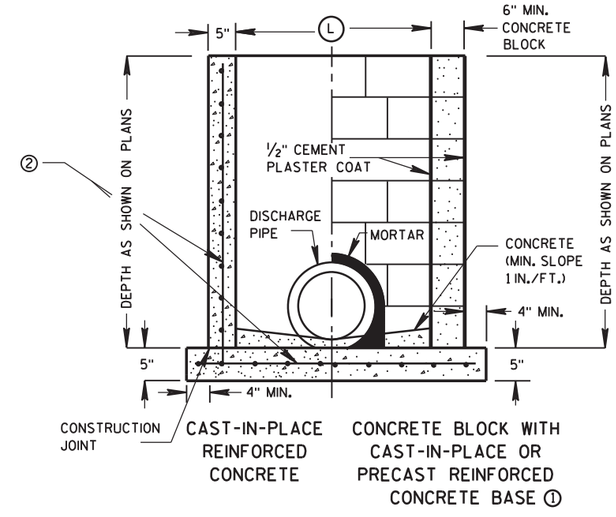
PLAN VIEW



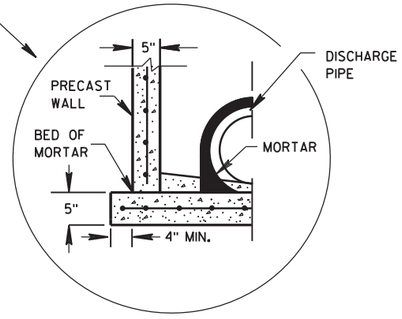
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

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

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

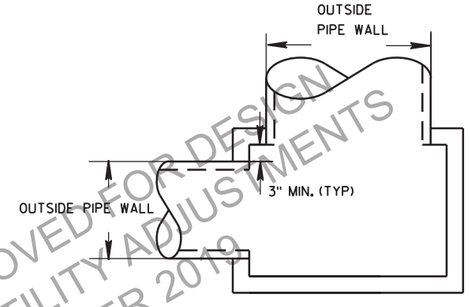
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH (W) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



DETAIL "A"

APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

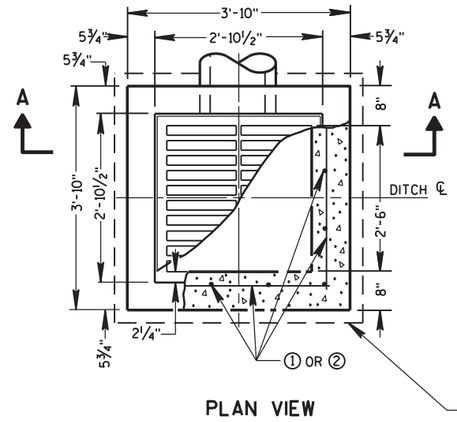
INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

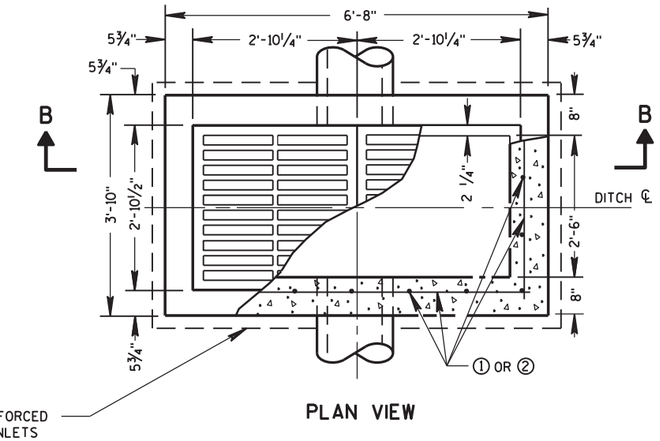
APPROVED
Sept., 2016
DATE
FHWA

/S/ Rodney Taylor
ROADWAY STANDAR
UNIT SUP

PRE_209

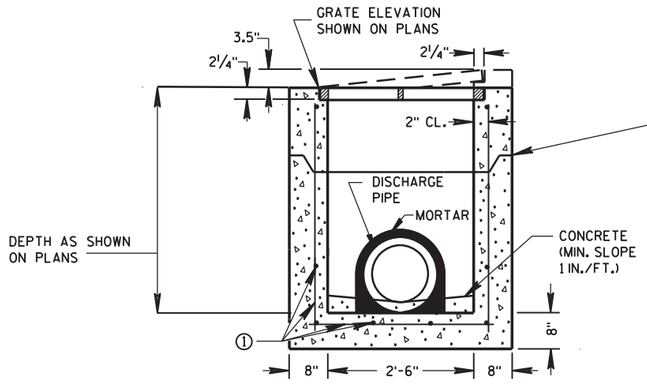


PLAN VIEW

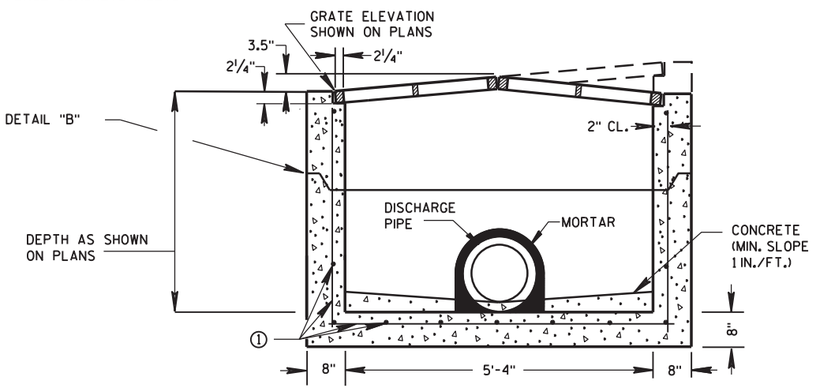


PLAN VIEW

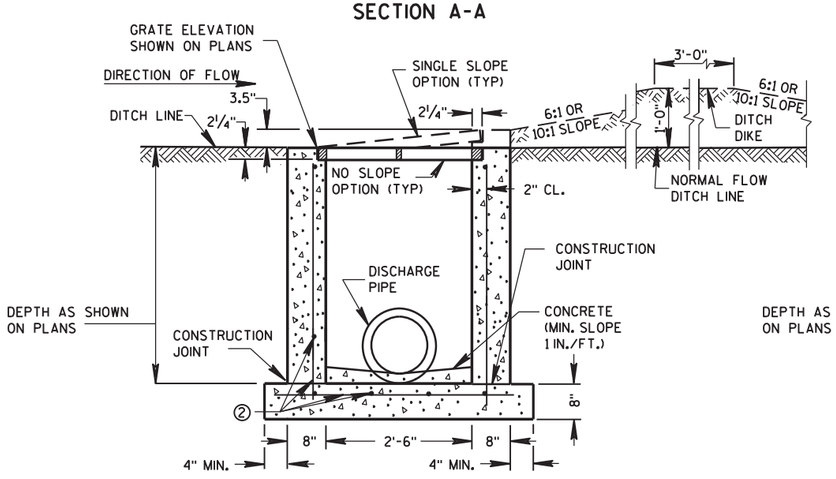
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



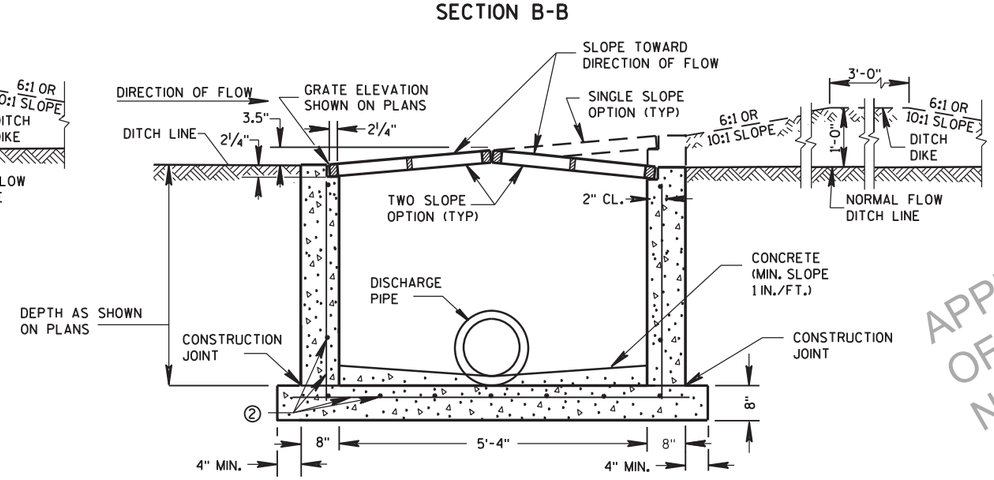
PRECAST REINFORCED CONCRETE SECTION A-A



PRECAST REINFORCED CONCRETE SECTION B-B



REINFORCED CAST-IN-PLACE CONCRETE SECTION A-A



REINFORCED CAST-IN-PLACE CONCRETE SECTION B-B

INLETS MEDIAN 1 GRATE

INLETS MEDIAN 2 GRATE

GENERAL NOTES

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

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DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, IG-MS", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

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

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

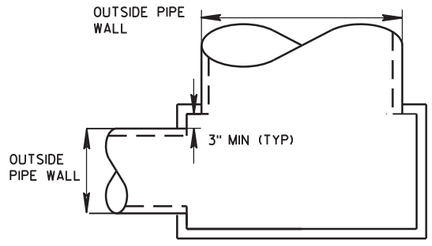
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

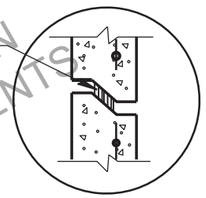
PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER	
INLET SIZE	WIDTH (IN)	LENGTH (IN)
1 GRATE	18	18
2 GRATE	18	42



DETAIL "A"

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



DETAIL "B"

APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

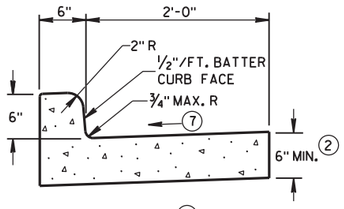
INLETS MEDIAN 1 AND 2 GRATE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

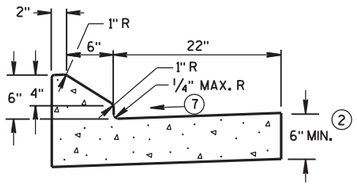
APPROVED
Sept., 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVISOR
FHWA

PRE_210

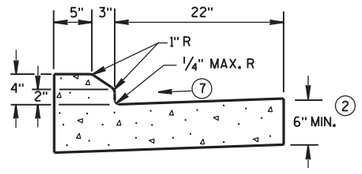
SDD 8d1-a Concrete Curb, Concrete Curb & Gutter



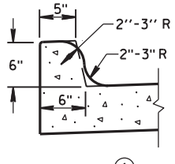
TYPES A (1) & D



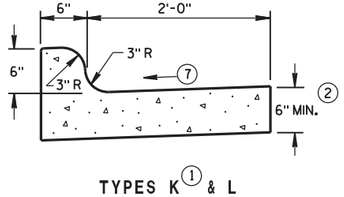
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

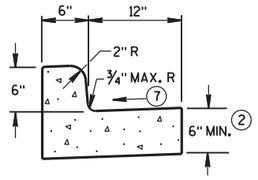


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



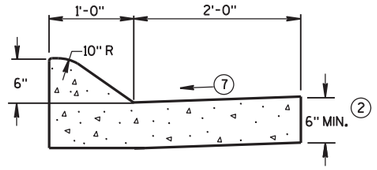
TYPES K (1) & L

CONCRETE CURB & GUTTER 30"

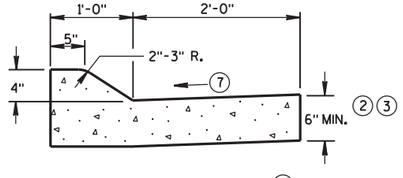


TYPES A (1) & D

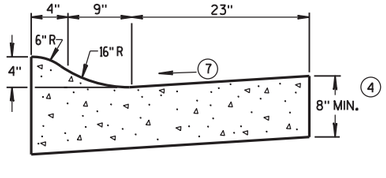
CONCRETE CURB & GUTTER 18"



6" SLOPED CURB TYPES A (1) & D

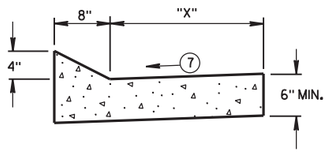


4" SLOPED CURB TYPES A (1) & D



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

CONCRETE CURB & GUTTER 36"



TYPES TBT & TBTT (1)

CONCRETE CURB & GUTTER

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

GENERAL NOTES

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

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

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

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

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

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

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

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

(4) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

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

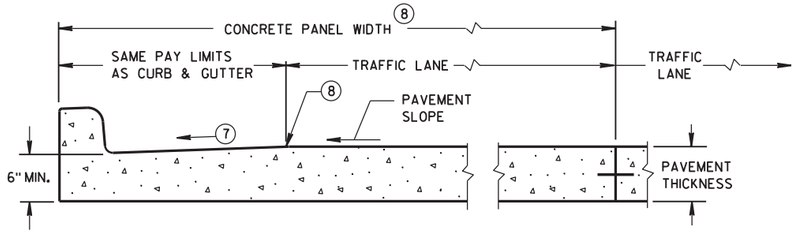
(6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

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

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

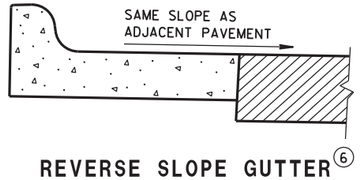
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

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



PARTIAL SECTION OF PAVEMENT *
WITH INTEGRAL CURB & GUTTER

* BIKE LANE IS NOT SHOWN.



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

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

CONCRETE CURB & GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PRE_211

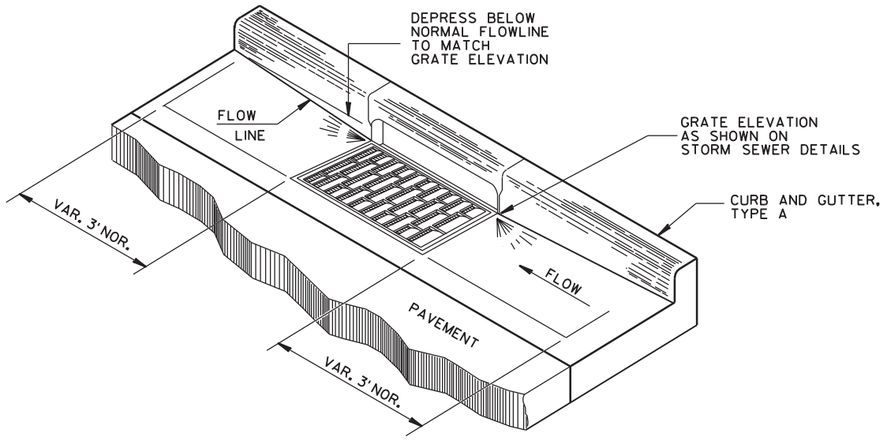
6

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

6

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

SDD 8d1-b Concrete Curb Ties and Curb & Gutter Applications



DETAIL OF CURB AND GUTTER AT INLETS

(TYPE H INLET COVER SHOWN)

GENERAL NOTES

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

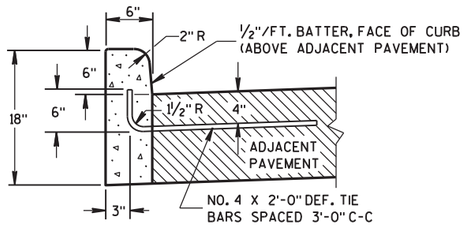
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

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

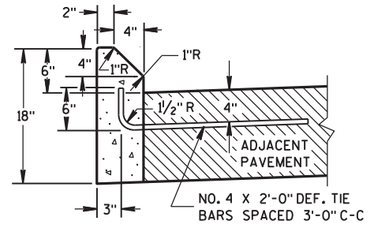
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

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

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

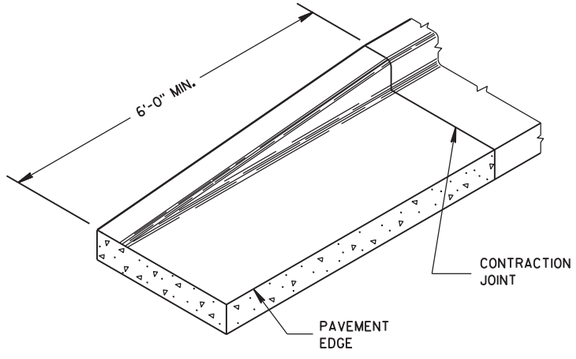


TYPES A (1) & D

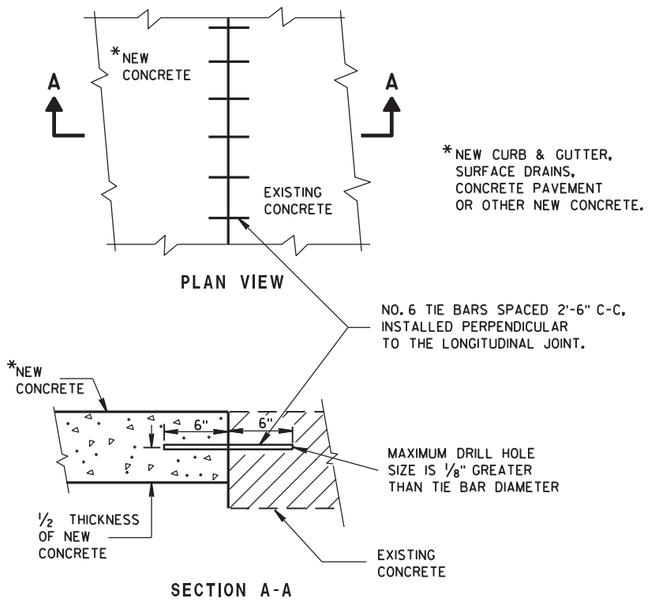


TYPES G (1) & J

CONCRETE CURB



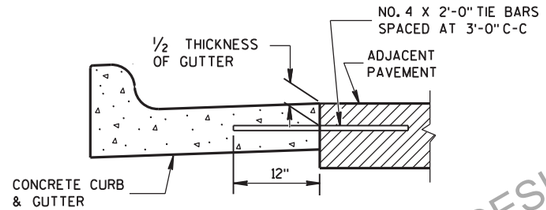
END SECTION CURB & GUTTER



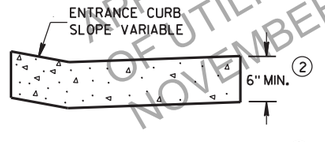
PLAN VIEW

SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT



TYPICAL TIE BAR LOCATION (1)



DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2017
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS PRE_212 NT
UNIT SUPERVISOR
FHWA

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

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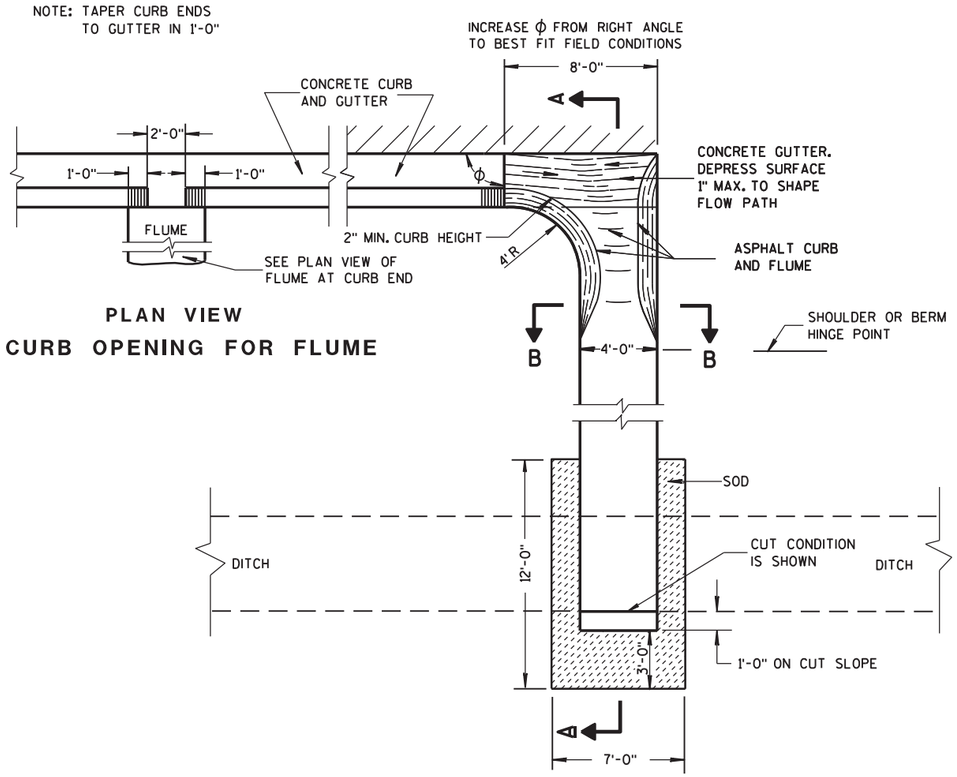
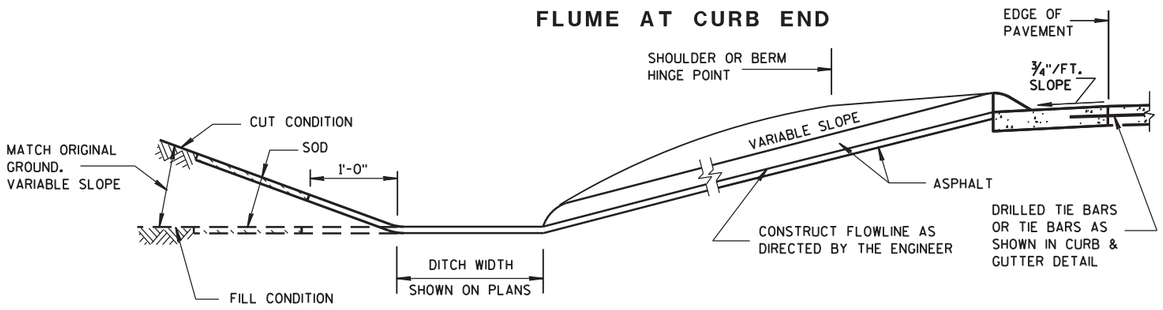
S.D.D. 8 D 1-20b

ASPHALTIC FLUME

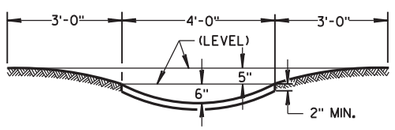


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

GENERAL NOTES

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

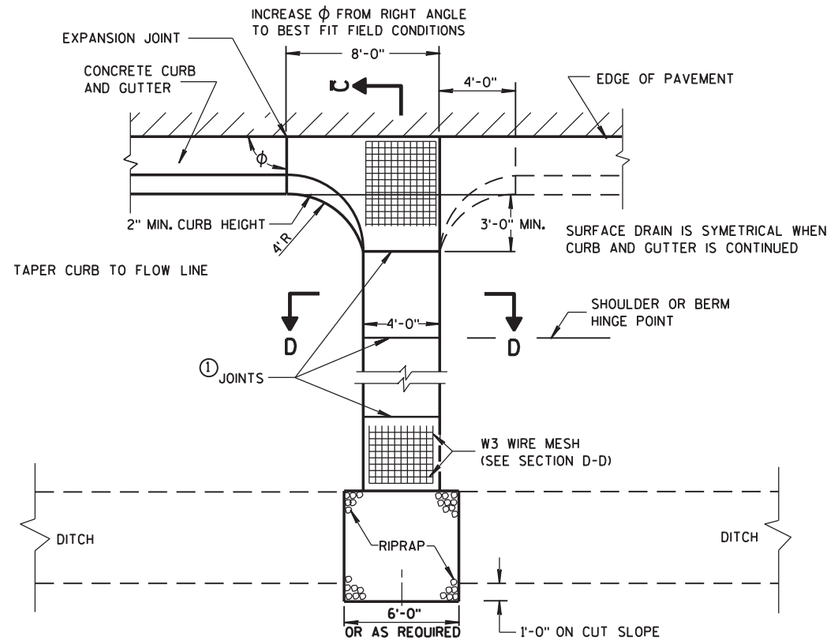
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE ⅛ TO ¼ INCH WIDE BY 1½ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

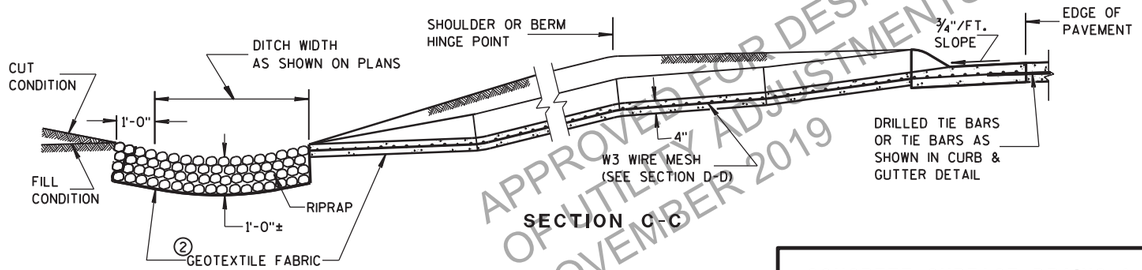
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

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

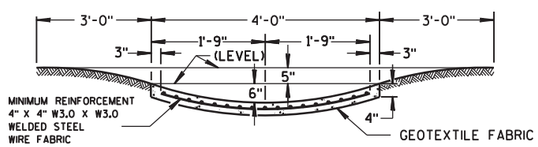
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/4/08 DATE
/S/ Jerry H. Zoda
ROADWAY STANDARDS ENGINEER
FHWA

PRE_213

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S.D.D. 8 D 4-5

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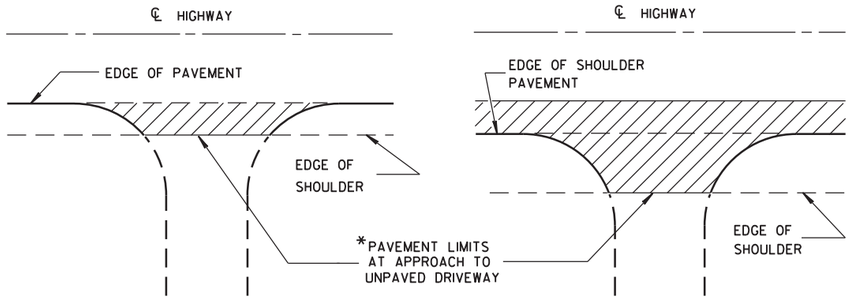
S.D.D. 8 D 4-5

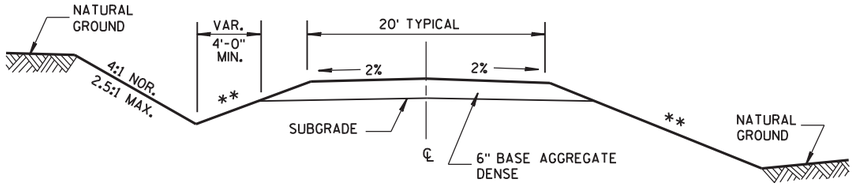


*WHERE DRIVEWAY IS PAVED, APPROACH PAVEMENT SHOULD BE EXTENDED TO MATCH DRIVEWAY PAVEMENT.

PLAN VIEW
(UNPAVED SHOULDER ON HIGHWAY)

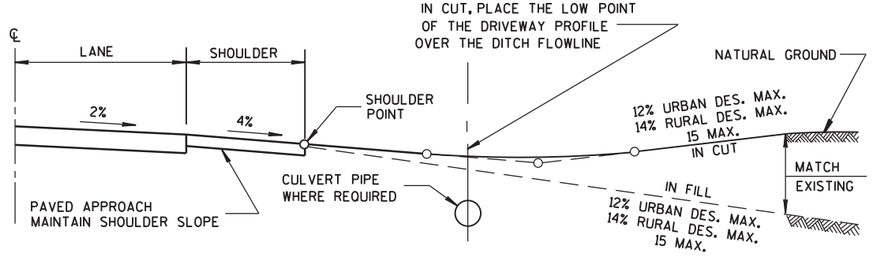
PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

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



IN CUT **IN FILL**

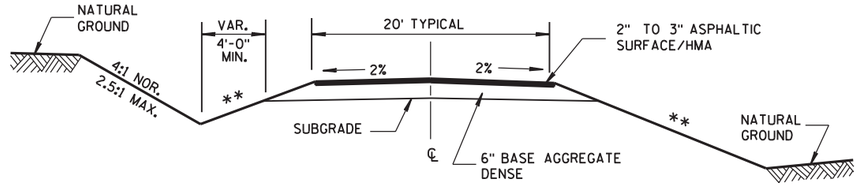
TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE AGGREGATE SURFACE



TYPICAL DRIVEWAY PROFILES

** SLOPE CAN VARY WITH SPEED. SEE 11-45-2.6.2.

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



IN CUT **IN FILL**

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE ASPHALTIC SURFACE

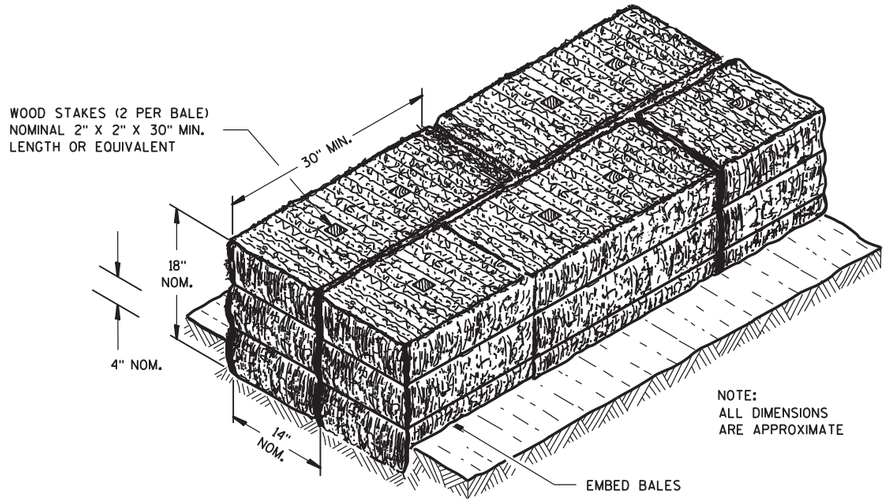
APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

DRIVEWAYS WITHOUT CURB & GUTTER

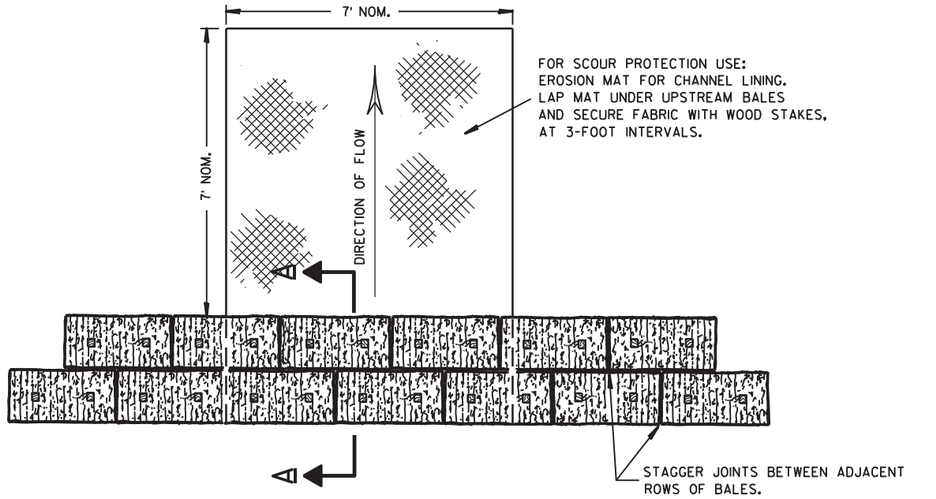
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December, 2016 /S/ Rodney Taylor
DATE ROADWAY STANDARDS UNIT SUPERVISOR
FHWA

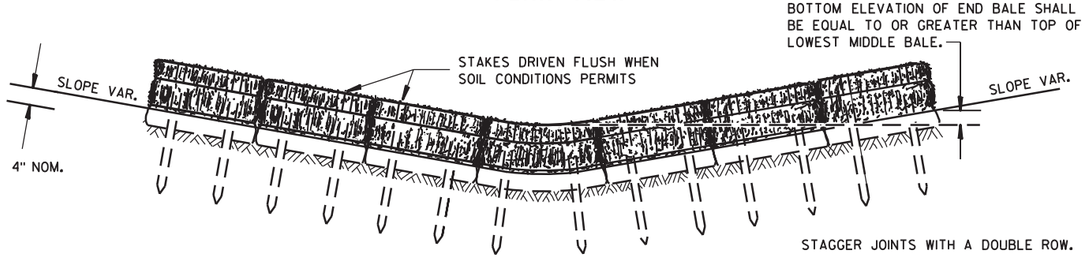
SDD 8e8 Typical Installations of Erosion Bales/Temporary Ditch Checks



SECTION A-A



PLAN VIEW



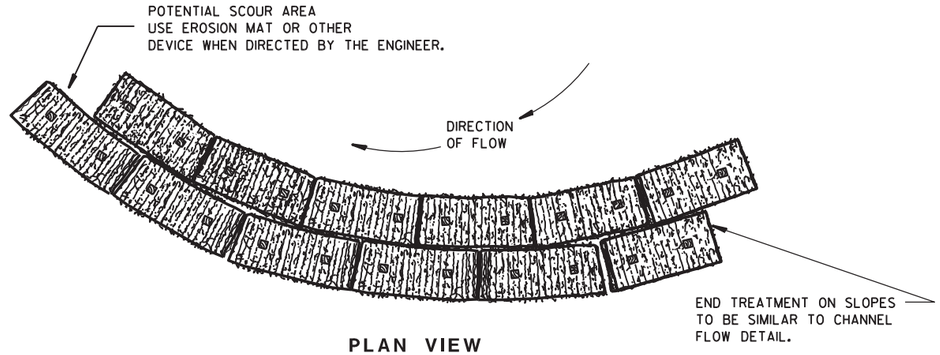
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

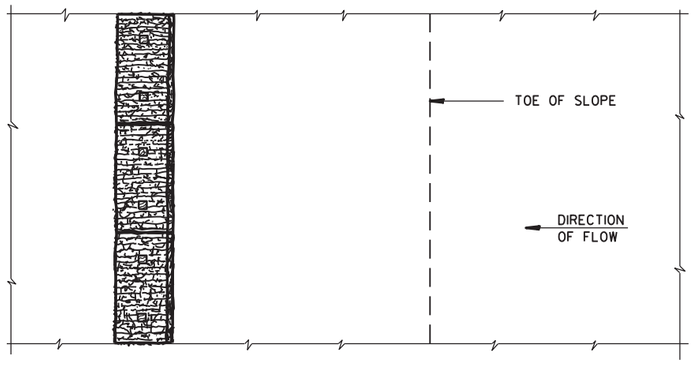
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

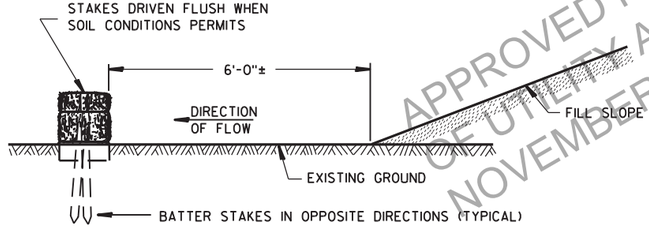


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/04/02 — DATE
/S/ Beth Cannestra — CHIEF ROADWAY DEV IEER
FHWA

PRE_215

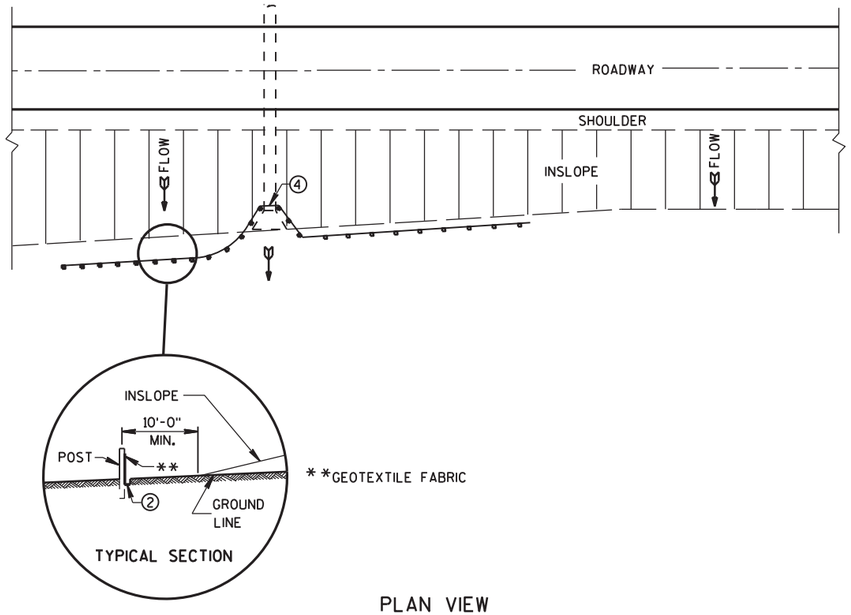
6

S.D.D. 8 E 8-3

6

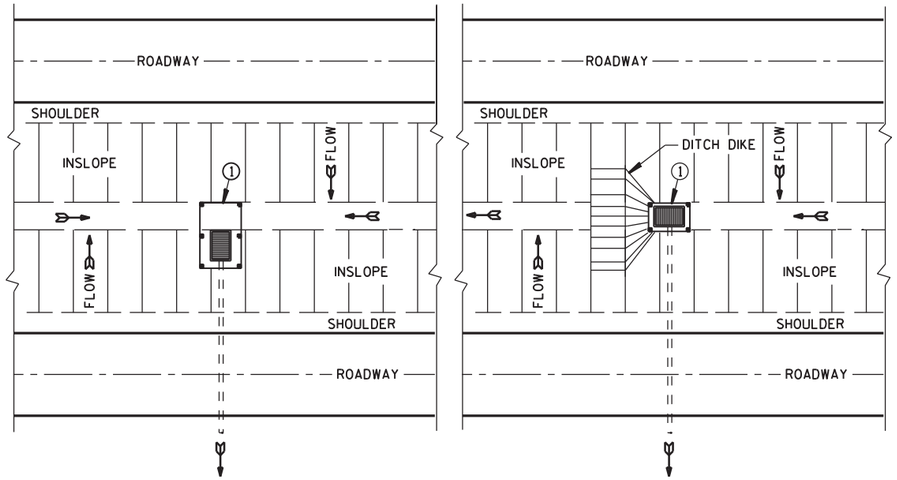
S.D.D. 8 E 8-3

SDD 8e9 Silt Fence



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

GENERAL NOTES

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

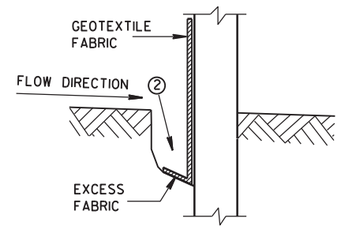
① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

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

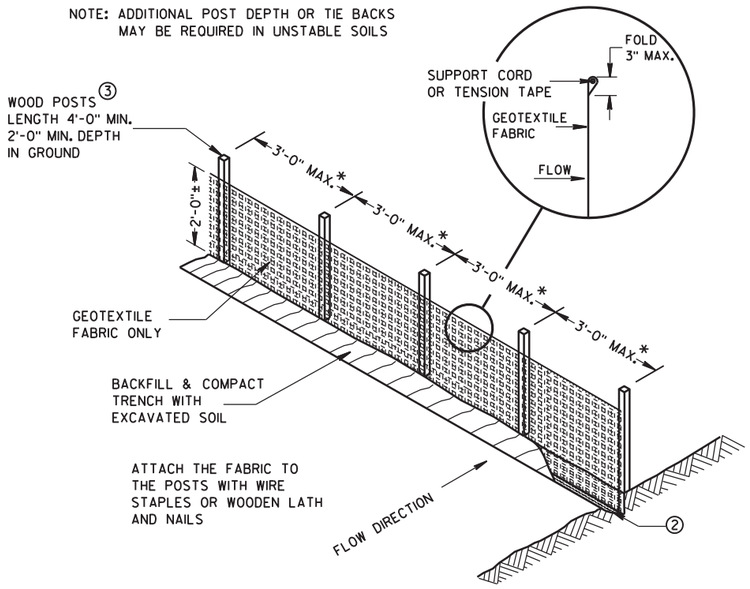
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.

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

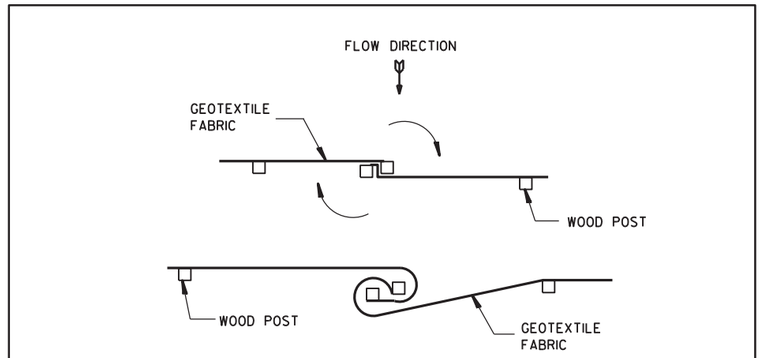
⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



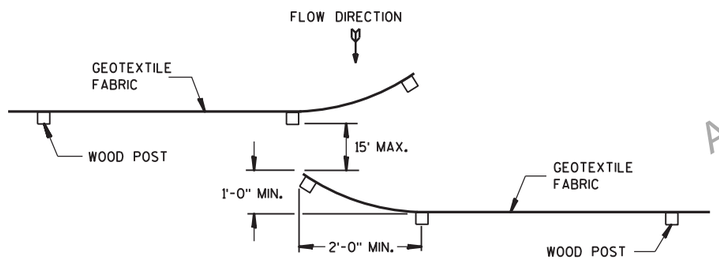
TRENCH DETAIL



SILT FENCE

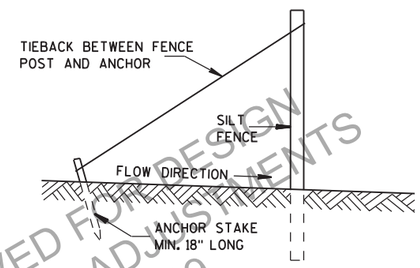


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE ⑤



SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

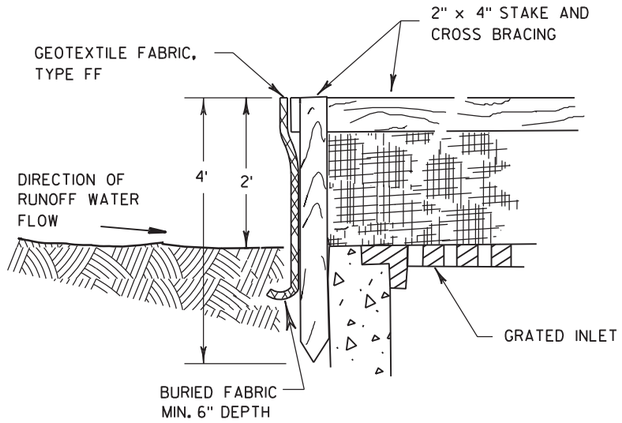
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEV ENGINEER
FHWA

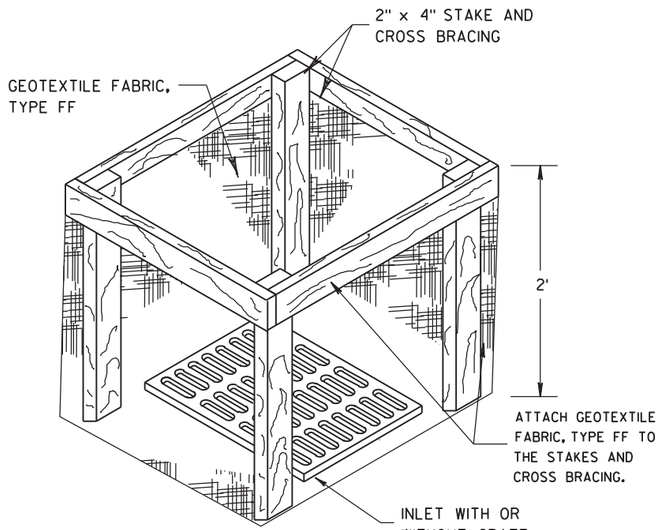
PRE_216

6

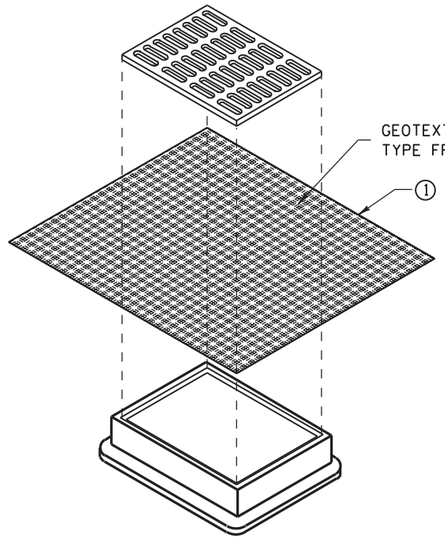
S.D.D. 8 E 9-6

SDD 8e10 Inlet Protection Type A, B, C and D



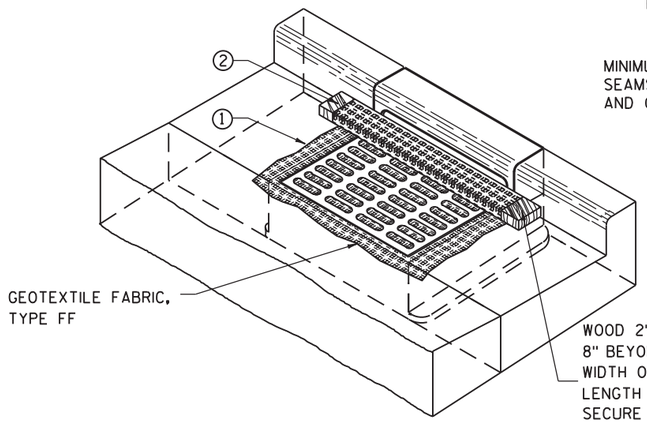


INLET PROTECTION, TYPE A

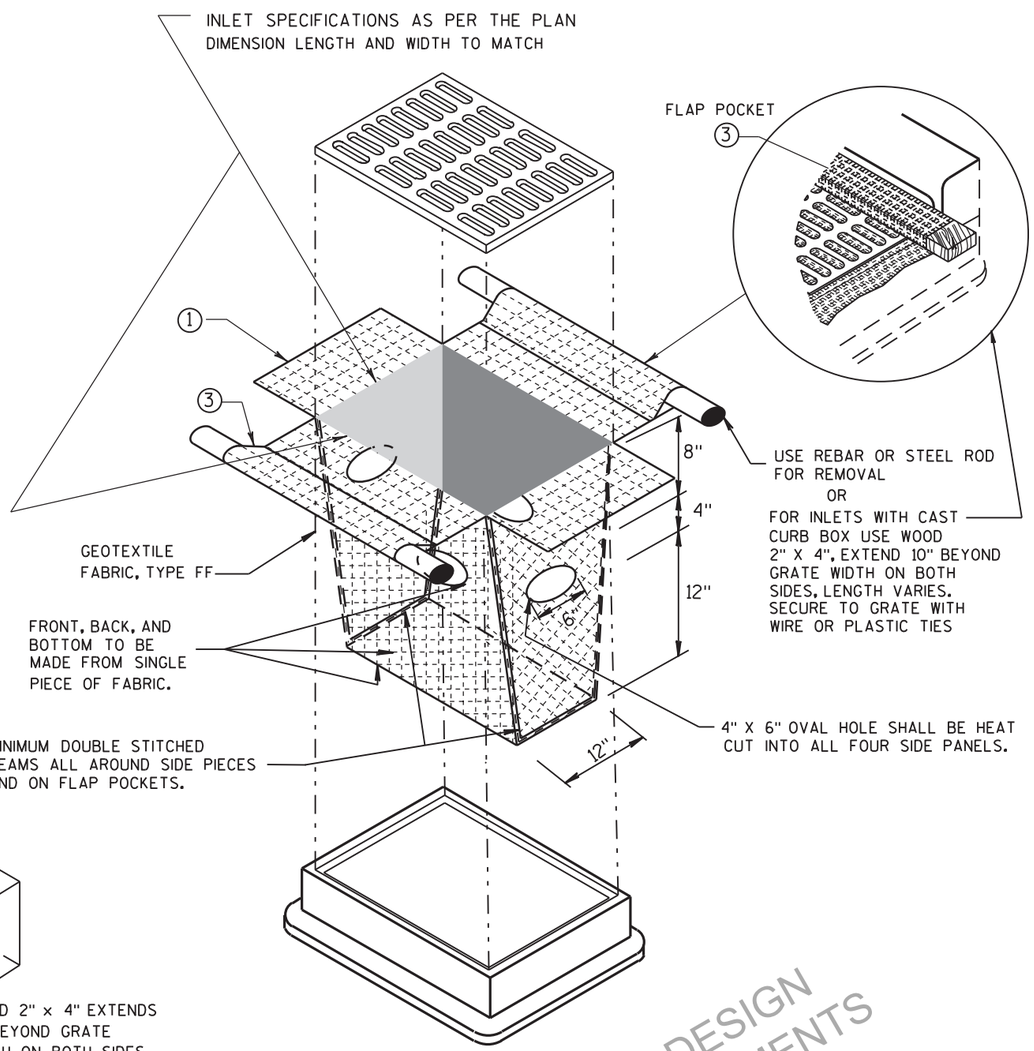


INLET PROTECTION, TYPE B (WITHOUT CURB BOX)

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



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

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

GENERAL NOTES

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

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

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

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

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

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

INSTALLATION NOTES

TYPE B & C

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

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

TYPE D

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

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

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

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

**INLET PROTECTION
TYPE A, B, C, AND D**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

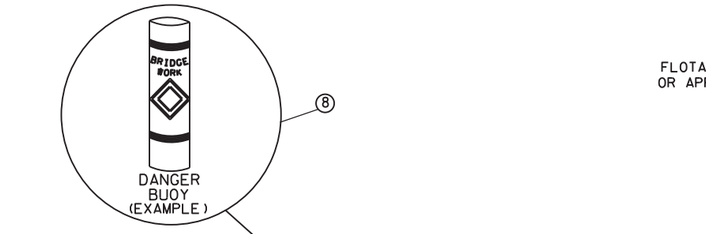
APPROVED

10-16-02
DATE

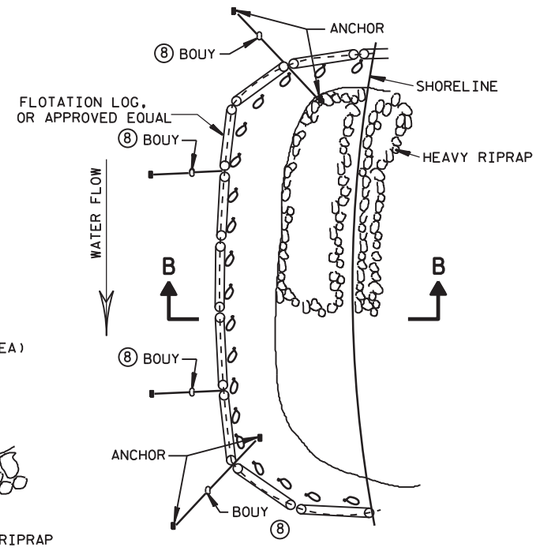
/S/ Beth Cannestra
CHIEF ROADWAY DEVE PRE_217 EER

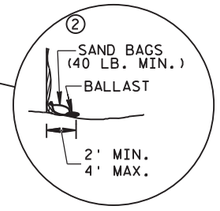
FHWA

SDD 8e11 Turbidity Barrier

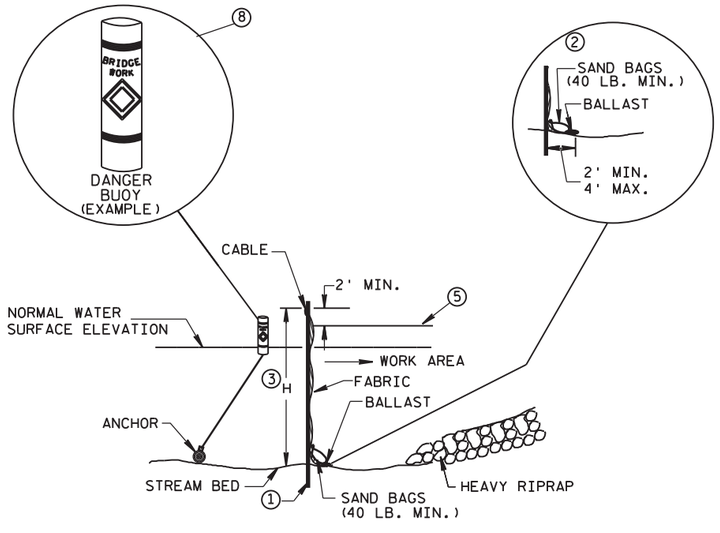


SECTION B-B

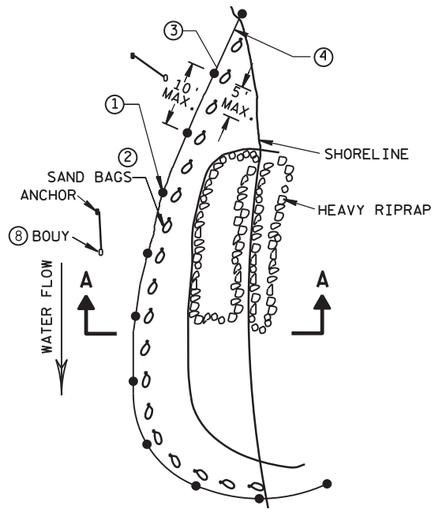




TURBIDITY BARRIER FLOAT ALTERNATIVE
CAUTION - SEE NOTE 6



SECTION A-A



PLAN VIEW

TURBIDITY BARRIER STANDARD POST INSTALLATION

TURBIDITY BARRIER PLACEMENT DETAILS

GENERAL NOTES

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

TURBIDITY BARRIER MAY BE REMOVED AT THE ENGINEERS DISCRETION, WHEN PERMANENT EROSION CONTROL MEASURES HAVE BEEN ESTABLISHED.

① DRIVEN STEEL POSTS, PIPES, OR CHANNELS. LENGTH SHALL BE SUFFICIENT TO SECURELY SUPPORT BARRIER AT HIGH WATER ELEVATIONS.

② SANDBAGS TO BE USED AS ADDITIONAL BALLAST WHEN ORDERED BY THE ENGINEER TO MEET ADVERSE FIELD CONDITIONS. SPACE AS APPROPRIATE FOR SITE CONDITIONS.

③ WHEN BARRIER HEIGHT, H, EXCEEDS 8 FT., POST SPACING MAY NEED TO BE DECREASED.

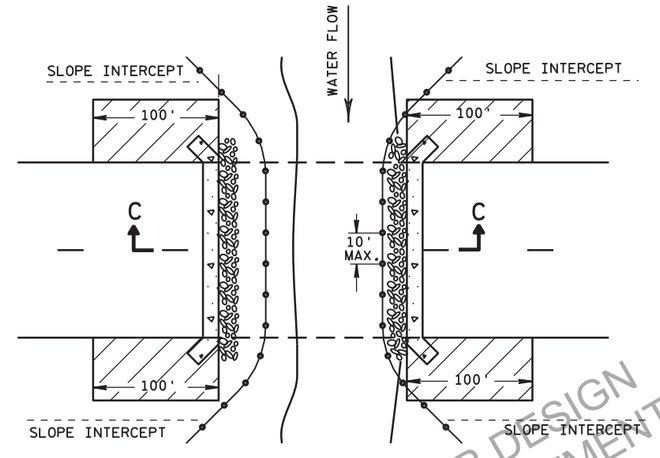
④ IN WATERWAYS SUBJECT TO FLUCTUATING WATER ELEVATIONS, PROVISIONS SHOULD BE MADE TO ALLOW THE WATER TO EQUALIZE ON EACH SIDE OF THE BARRIER. THIS MAY BE ACCOMPLISHED BY LEAVING A PORTION OF THE BARRIER OPEN ON THE UPSTREAM END.

⑤ ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MIMIMUM BARRIER HEIGHT SHALL BE 2'GREATER THAN EITHER THE O2 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WICHEVER IS GREATER.

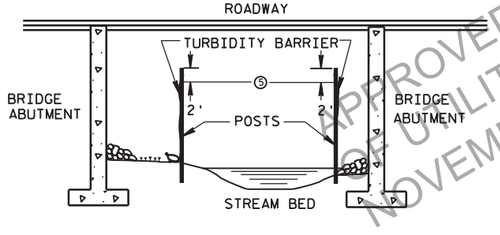
⑥ FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BED ROCK PREVENTS THE INSTALLATION OF POSTS.

⑦ ALLOW SUFFICIENT SLACK VERTICALLY AND HORIZONTALLY SO THAT SEDIMENT BUILD UP WILL NOT SEPARATE OR LOWER THE TURBIDITY BARRIER.

⑧ USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.



PLAN VIEW



SECTION C-C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

TURBIDITY BARRIER	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
6-04-02 DATE	/S/ Beth Cannestra CHIEF ROADWAY DEVI EER
FHWA	

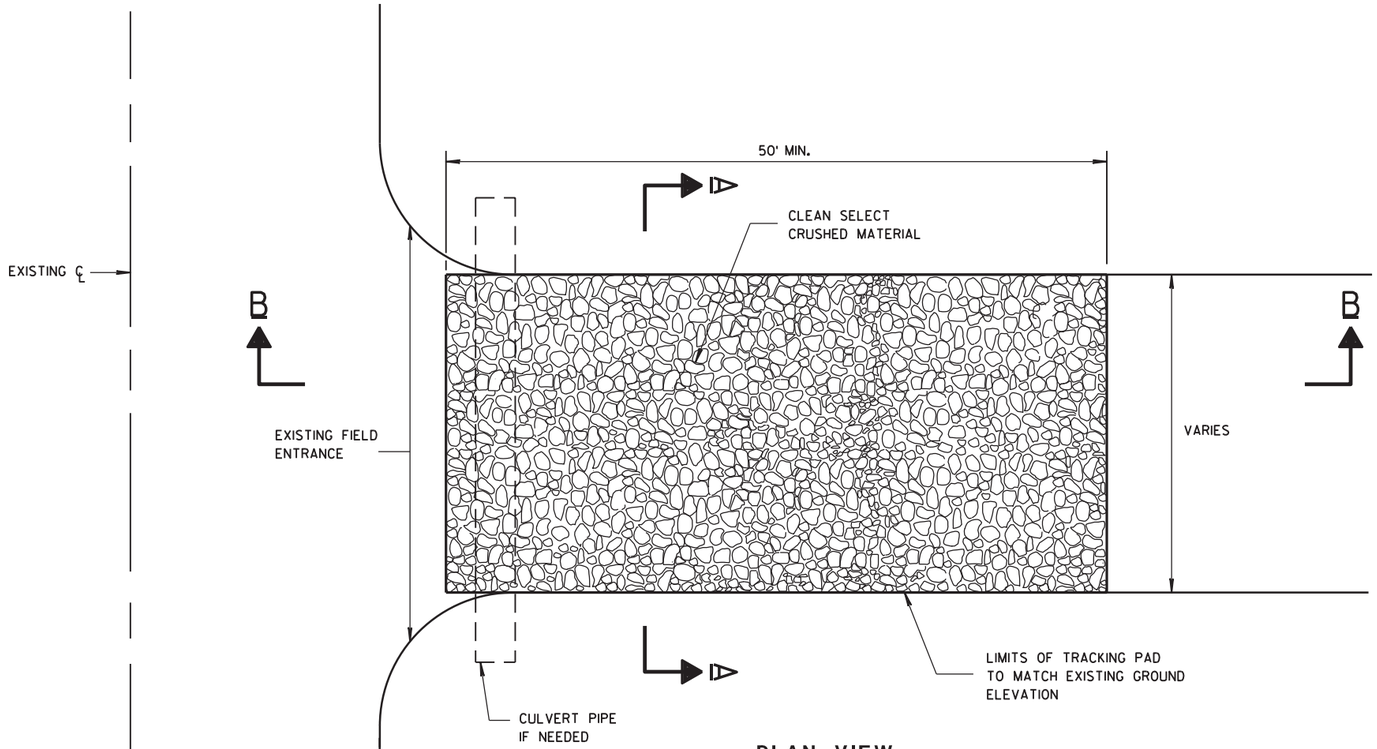
PRE_218

6

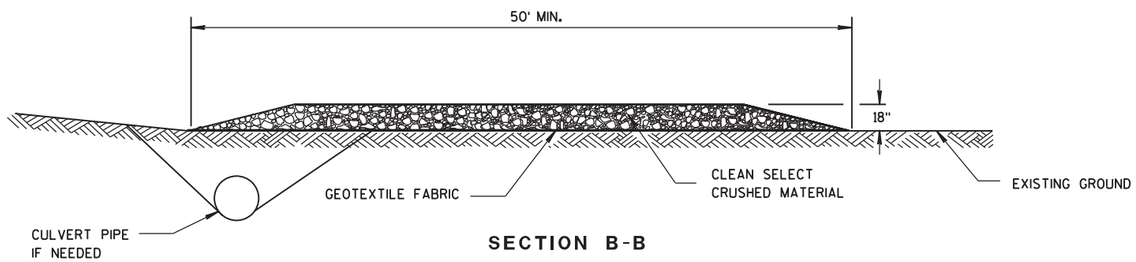
S.D.D. 8 E 11-2

6

S.D.D. 8 E 11-2



PLAN VIEW



SECTION B-B

GENERAL NOTES

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

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

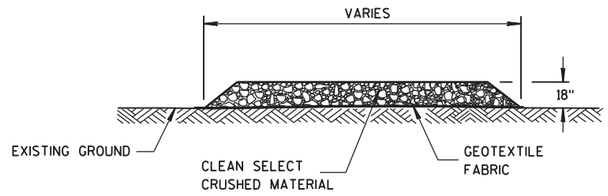
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

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

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

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

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



SECTION A-A

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

TRACKING PAD

TRACKING PAD	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 3-24-2011 DATE	/S/ Jerry H. Zogg ROADWAY STANDARDS ENGINEER
FHWA	

6
S.D.D. 8 E 14-1

SDD 8f1 Apron Endwalls for Culvert Pipe

METAL APRON ENDWALLS

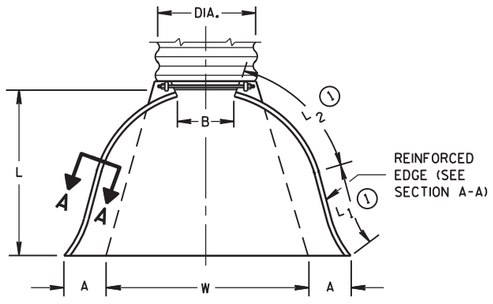
PIPE DIA. (IN.)	MIN. THICK. (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE	BODY
	STEEL	ALUM.	A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")		
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to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

× EXCEPT CENTER PANEL SEE GENERAL NOTES

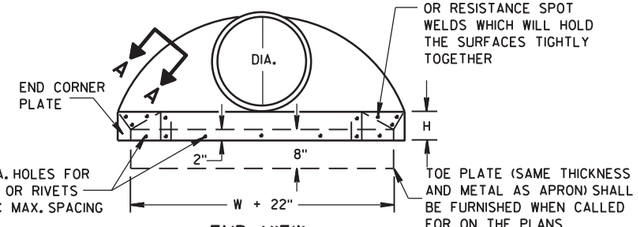
REINFORCED CONCRETE APRON ENDWALLS

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

*MINIMUM
**MAXIMUM



PLAN VIEW



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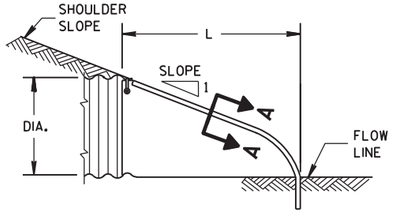
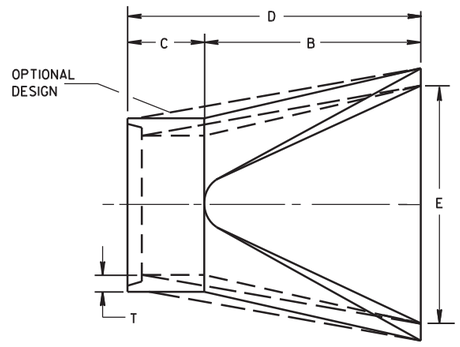
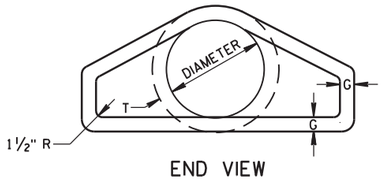


SIDE ELEVATION

METAL ENDWALLS



PLAN



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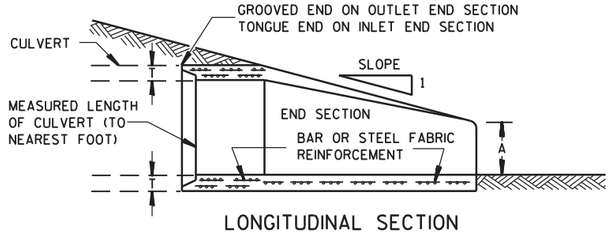
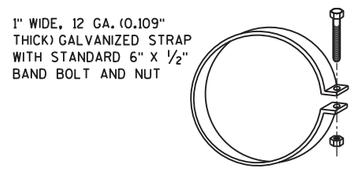


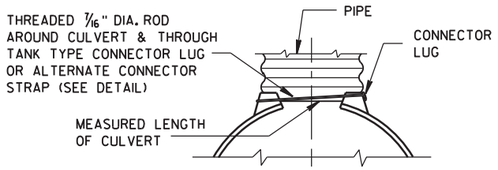
LONGITUDINAL SECTION

CONCRETE ENDWALLS

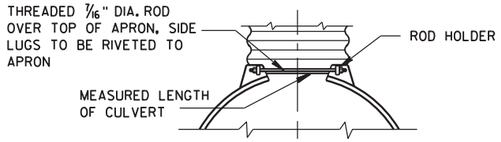


ALTERNATE FOR TYPE 1 CONNECTION

END SECTION CONNECTOR STRAP

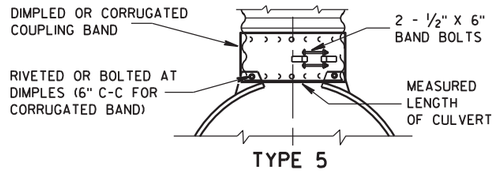


TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE

TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

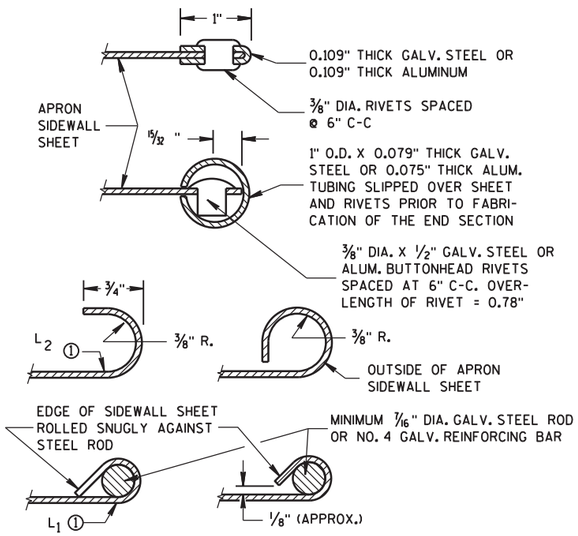
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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

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

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

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

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

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

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

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

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

APPROVED FOR PUBLICATION BY THE DIRECTOR OF UTILITY ACCOMMODATIONS
NOVEMBER 2019

APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

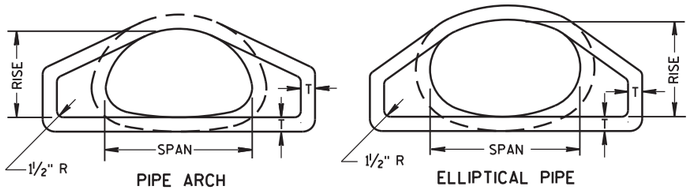
APPROVED
8-30-94 — DATE
/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEV ENGINEER
FHWA

PRE_220

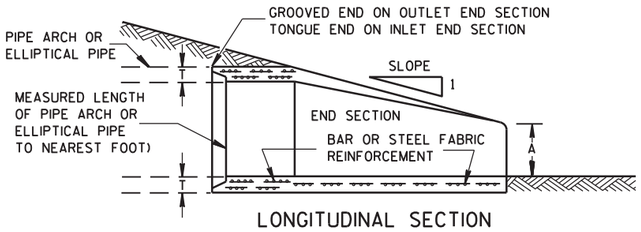
6

S.D.D. 8 F 1-11

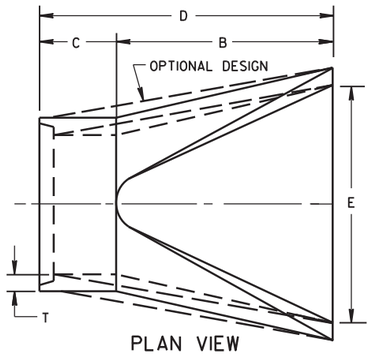
SDD 8f2 Apron Endwalls for Pipe Arch and Elliptical Pipe



END VIEW

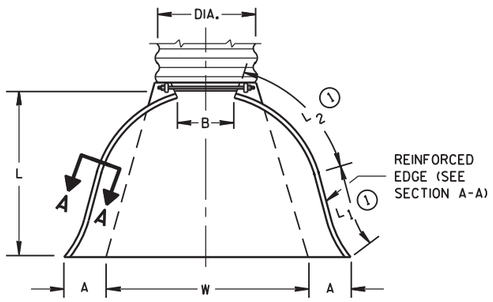


LONGITUDINAL SECTION

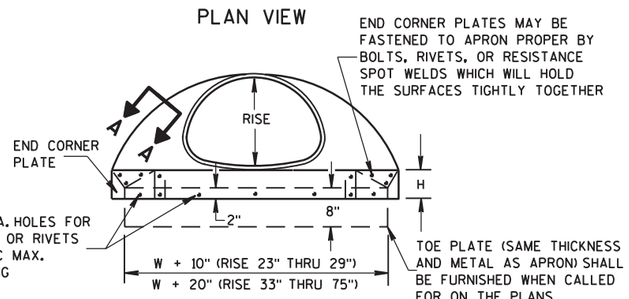


PLAN VIEW

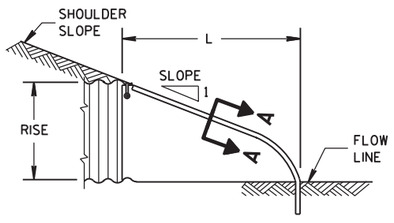
CONCRETE ENDWALLS



PLAN VIEW

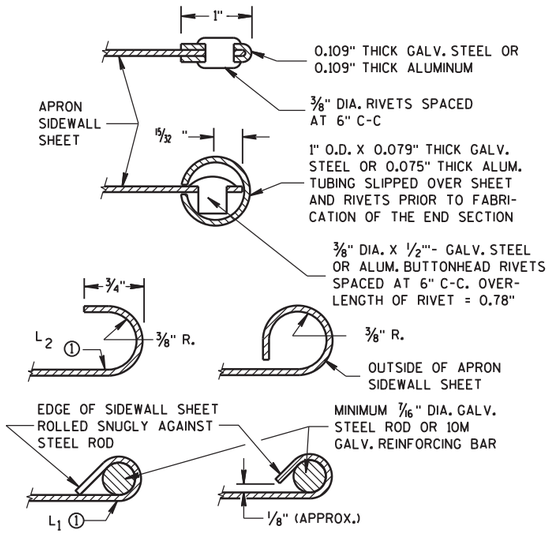


END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

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

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19 3/8	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37 5/8	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45 5/8	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS

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

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

*EXCEPT CENTER PANEL SEE GENERAL NOTES

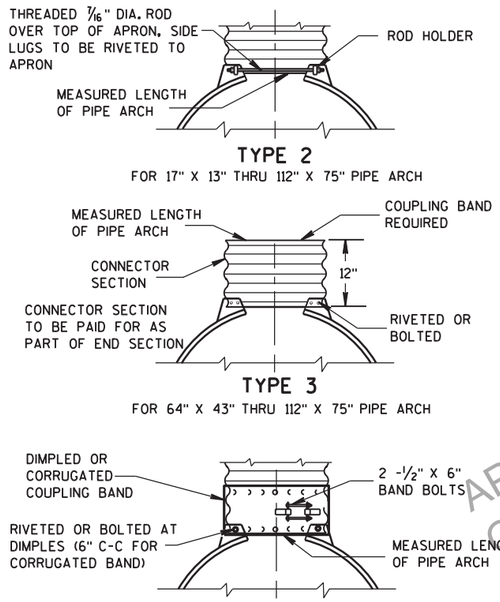
REINFORCED CONCRETE PIPE ARCH

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

REINFORCED CONCRETE ELLIPTICAL PIPE

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

**NOMINAL SIZE



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

CONNECTION DETAILS

GENERAL NOTES

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

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

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

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

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

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

APPROVED FOR PUBLICATION
OF UTILITY ACCOMMODATION
NOVEMBER 2019

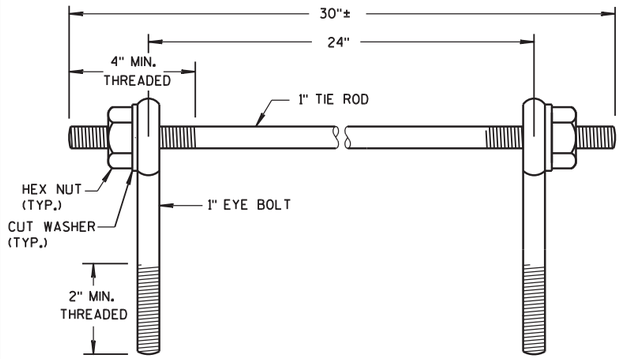
APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

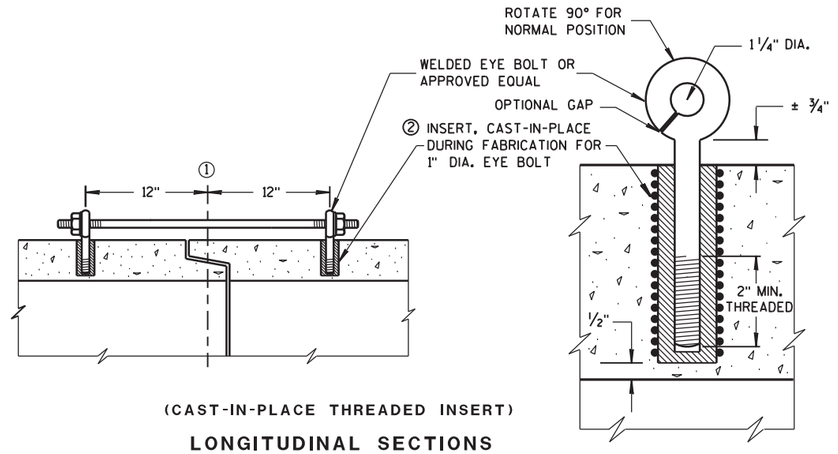
APPROVED
11-30-94 — DATE
/S/ Rory L. Rhinesmith — CHIEF ROADWAY DE\ ...VEER
FHWA

6
S.D.D. 8 F 2-1

SDD 8f4 Joint Ties for Concrete Pipe and Concrete Pipe Collars



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

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

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

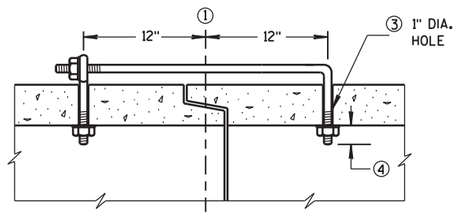
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

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

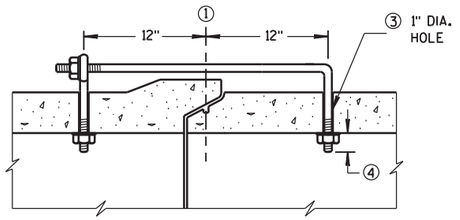
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

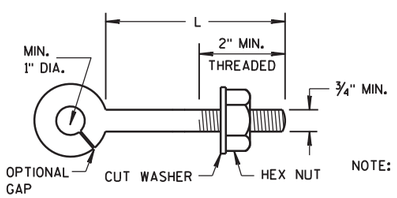


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

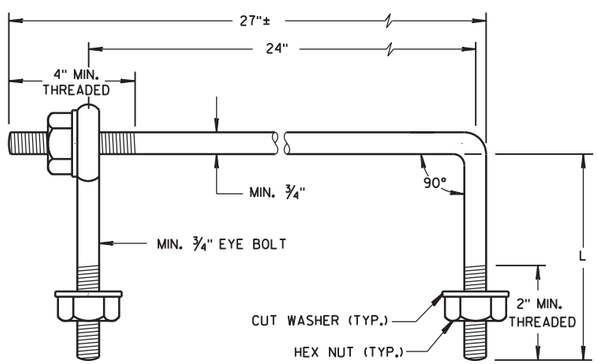
EYE BOLT DIMENSION TABLE

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



EYE BOLT

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



EYE BOLT AND TIE ROD

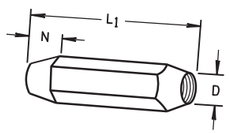
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

DIMENSIONS SHOWN ARE IN INCHES



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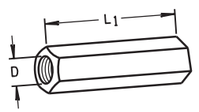
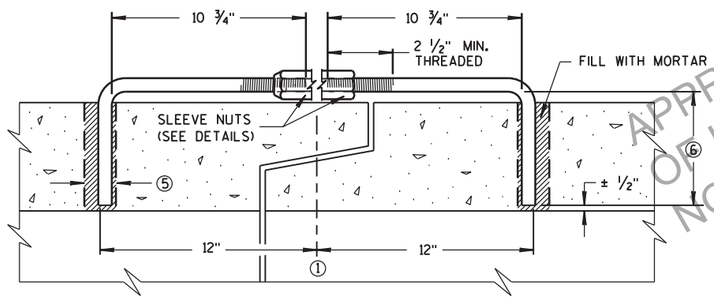


PLAIN

RIGHT AND LEFT THREADS

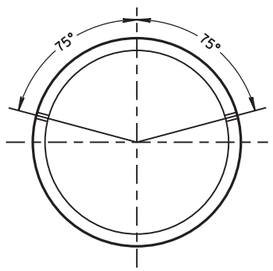
SLEEVE NUTS



LONGITUDINAL SECTION

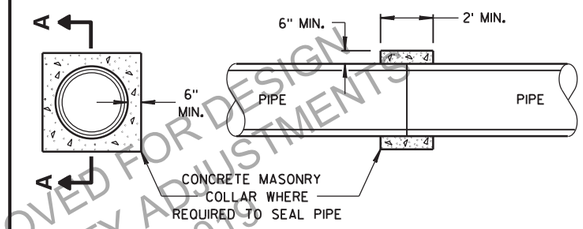
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

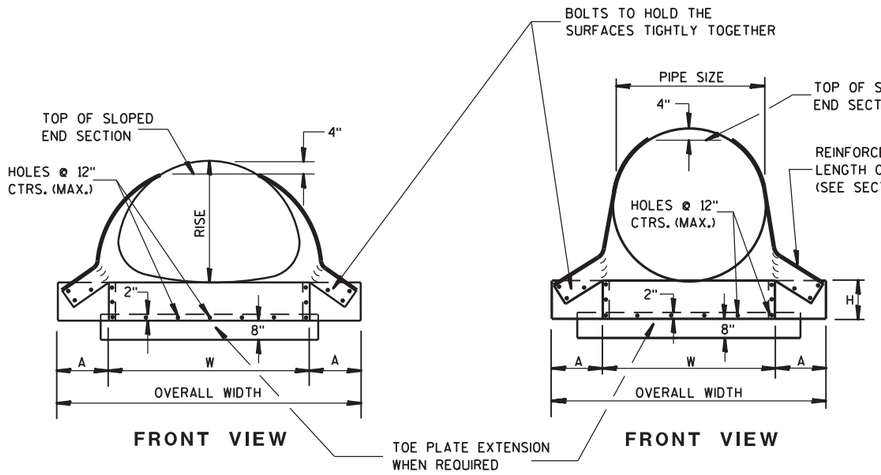
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6-5-2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDA ENGI ENT
FHWA

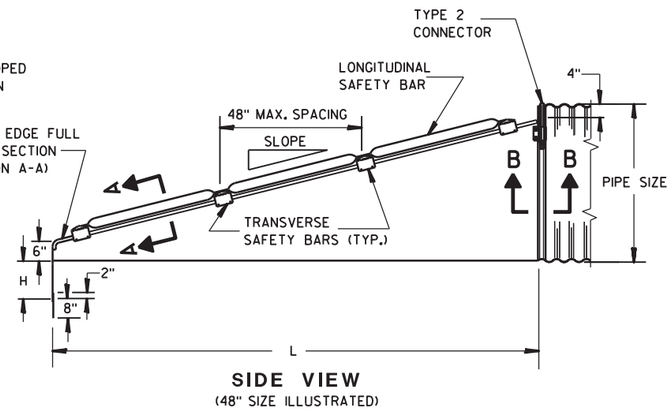
APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2015
PRE_222

SDD 8f8 Steel Apron Endwalls for Culvert Pipe and Pipe Arch Sloped Cross Drains



FRONT VIEW

FRONT VIEW



SIDE VIEW
(48" SIZE ILLUSTRATED)

GENERAL NOTES

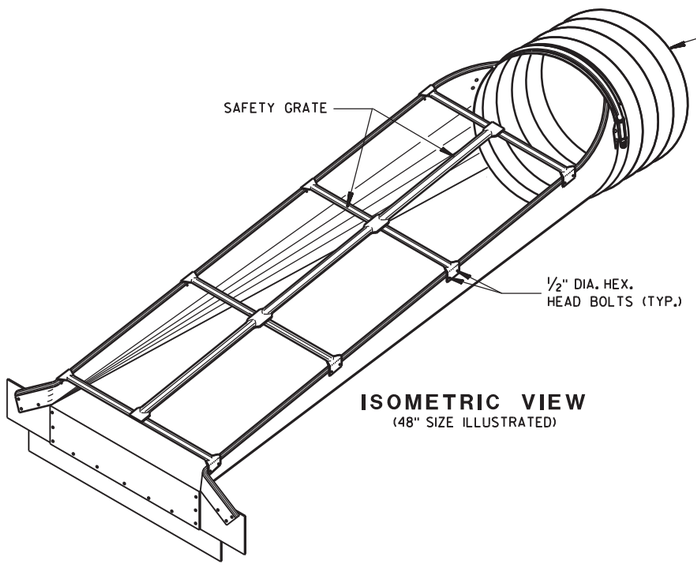
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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

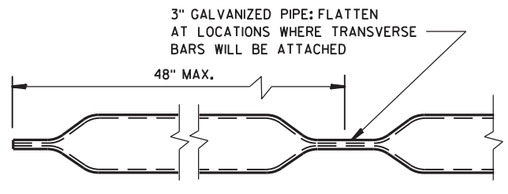
SLOPED STEEL ENDWALLS LOCATED AT THE ENDS OF CONCRETE CULVERT PIPE SHALL BE FURNISHED WITH STEEL ADAPTER SLEEVES.

STEEL APRON ENDWALLS FOR CULVERT PIPE CROSS DRAINS

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



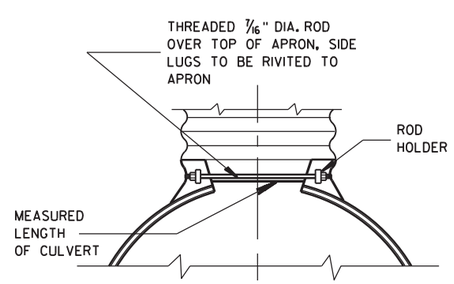
ISOMETRIC VIEW
(48" SIZE ILLUSTRATED)



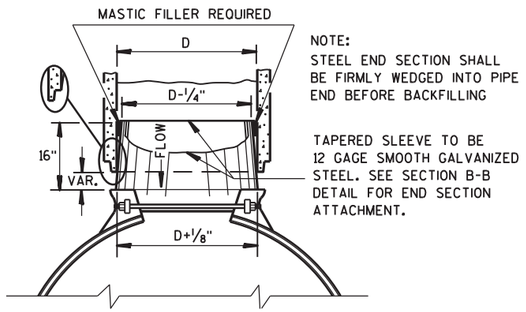
LONGITUDINAL SAFETY BAR

STEEL APRON ENDWALLS FOR PIPE ARCH SLOPED CROSS DRAINS

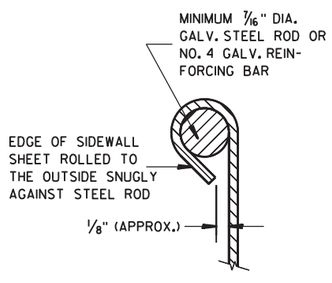
EQUIV. DIA. (IN.)	INCHES		MIN. THICK.		DIMENSIONS (Inches)				L DIMENSIONS			
	SPAN	RISE	IN.	GAGE	A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
30	35	24	.079	14	12	9	41	65	4:1	56	6:1	84
36	42	29	.109	12	12	9	48	72	4:1	76	6:1	114
42	49	33	.109	12	16	12	55	87	4:1	92	6:1	138
48	57	38	.109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



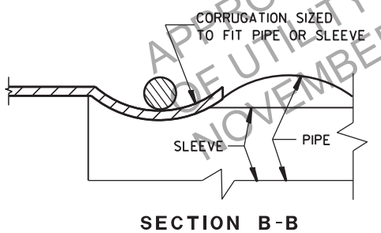
TYPE 2 CONNECTOR DETAIL



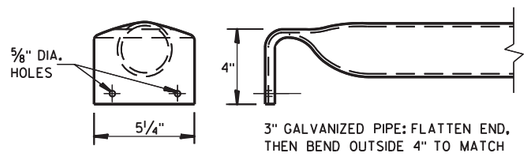
STEEL ADAPTER SLEEVE FOR CONCRETE PIPE



SECTION A-A



SECTION B-B



TRANSVERSE SAFETY BAR

APPROVED FOR DESIGN
UTILITY ADJUSTMENTS
NOVEMBER 2019

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

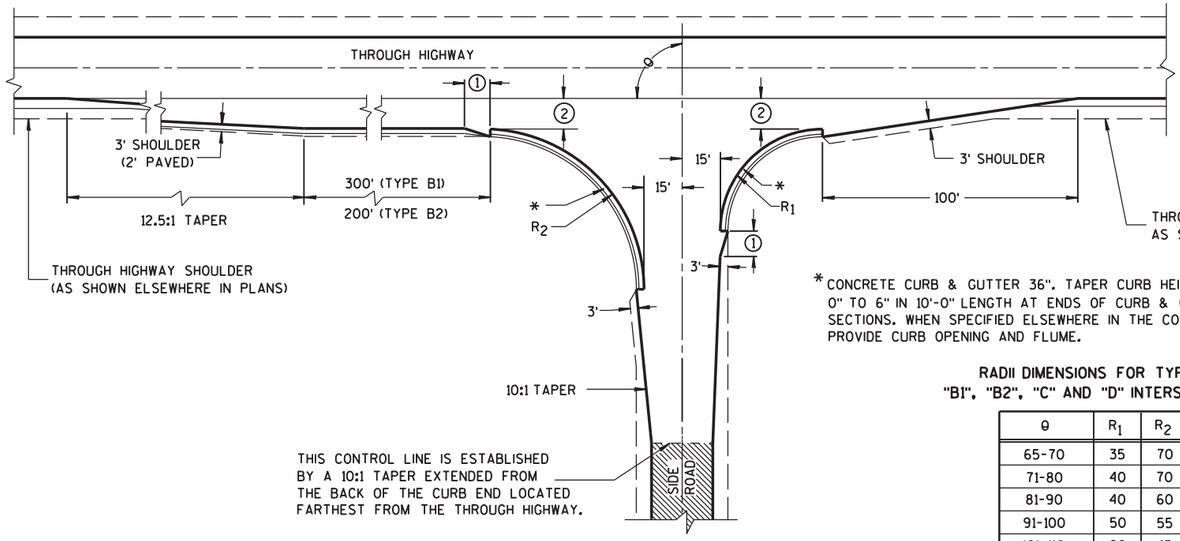
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

PRE_223

6
S.D.D. 8 F 8-2

SDD 9a1-a At-Grade Side Road Intersection, Types B1, B2, C and D and Tee Intersection Bypass Lane

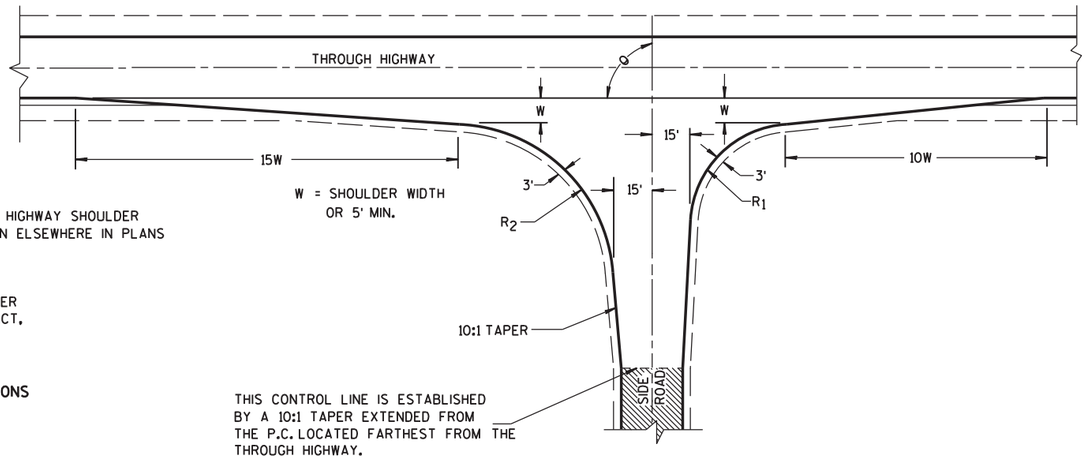


TYPE "B1" AND "B2"

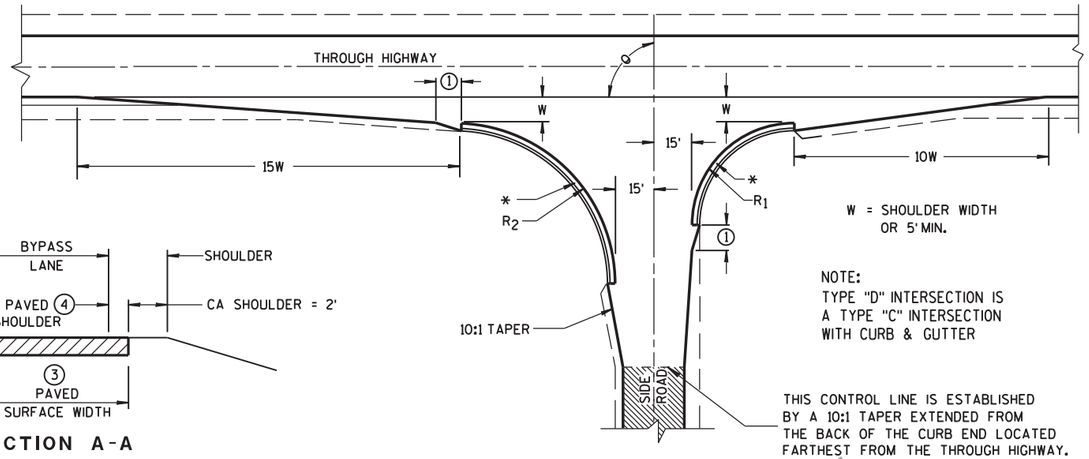
*CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

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

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



TYPE "C"



TYPE "D"

GENERAL NOTES

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

SIDE ROAD SURFACING NOTE

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

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

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

EXISTING PAVED SURFACE

BYPASS LANE

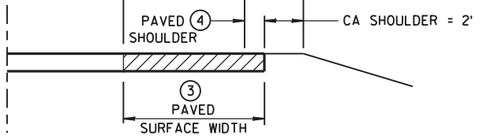
(1) 10-FT TYPICAL.

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

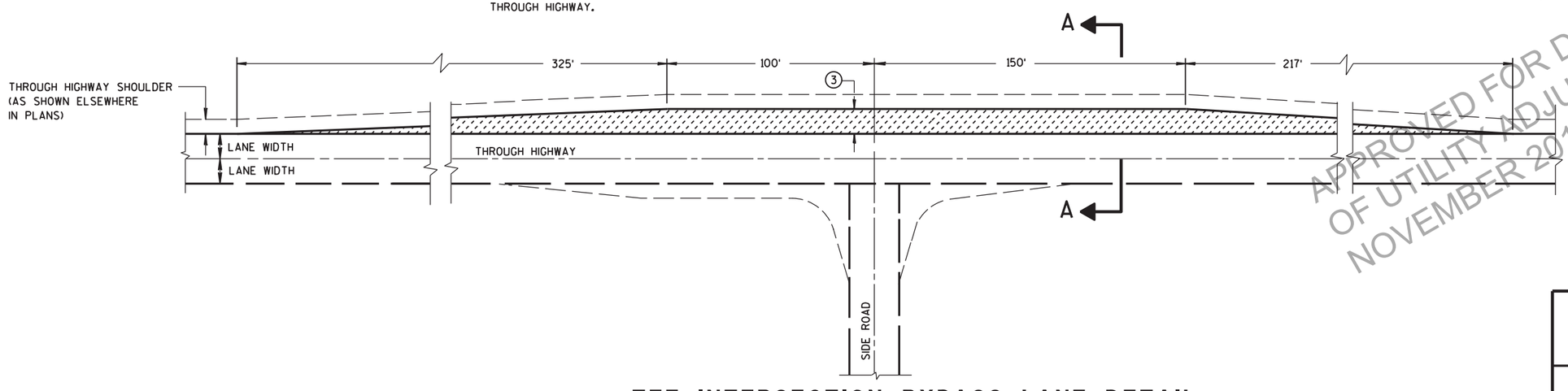
**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.

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

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



SECTION A-A
(SHOWING BYPASS LANE AND SHOULDER)



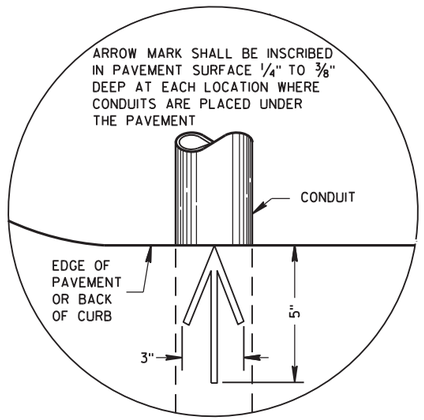
TEE INTERSECTION BYPASS LANE DETAIL

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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

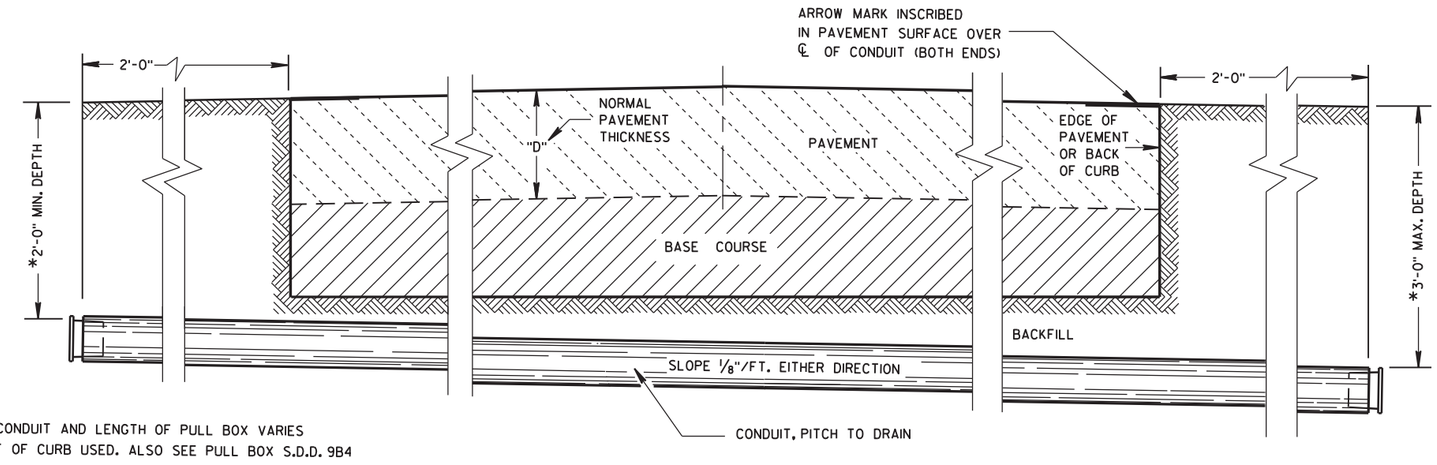
STATE OF WISCONSIN
DEPARTMENT OF TRAN PRE_224

6
S.D.D. 9 A 1-13a



PLAN VIEW

ARROW MARK



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

GENERAL NOTES

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

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March, 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTI
FHWA

PRE_225

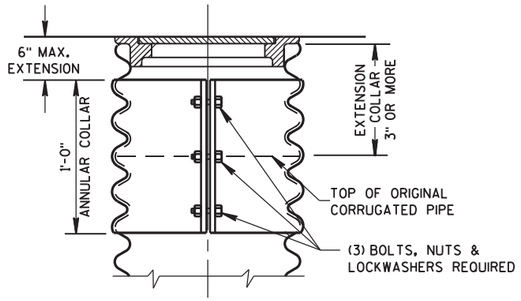
SDD 9b4 Pull Box

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

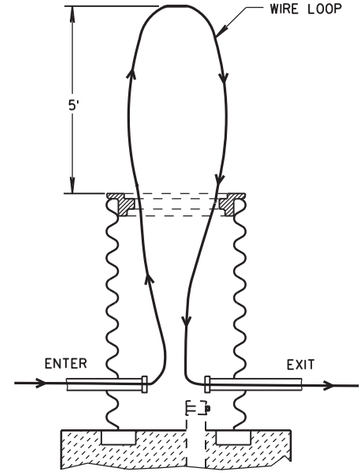
DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2	26 1/2	26 1/2	26 1/2
FRAME	F	8 1/2	8 1/2	8 1/2	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2
FRAME	G	11 1/2	11 1/2	11 1/2	17 1/2	17 1/2	17 1/2	23 1/2	23 1/2	23 1/2
WEIGHT IN POUNDS *										
FRAME AND COVER		60	60	60	110	110	110	155	155	155

* THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

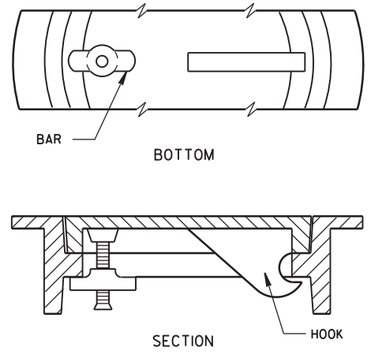
** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.



CORRUGATED PIPE EXTENDER

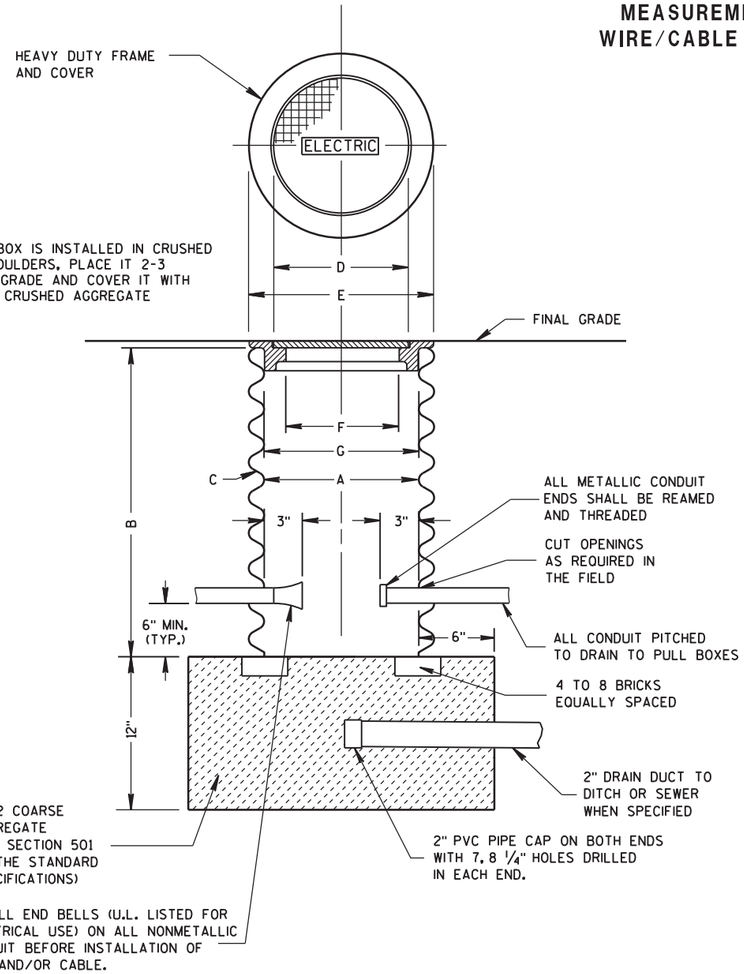


MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX

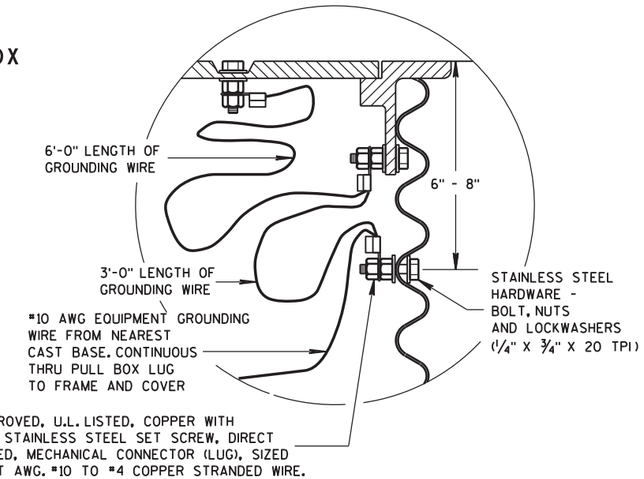


ALTERNATE COVER (LOCKING)

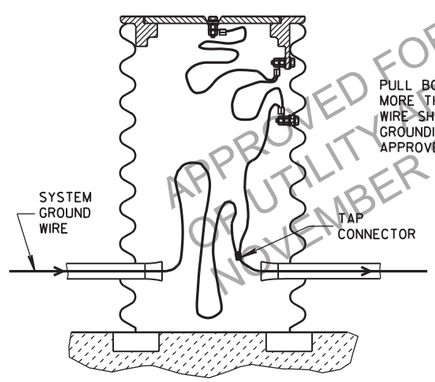
TIGHTENING BAR TYPE



PULL BOX



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

GENERAL NOTES

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

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.

APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2014

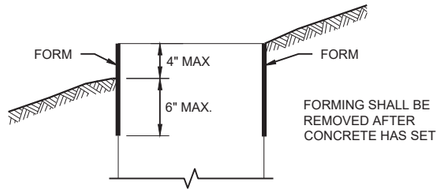
PULL BOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRI
FHWA

SDD 9C2 Concrete Bases, Types 1, 2, 5 & 6

FORM DEPTH SHALL BE NO MORE THAN 6" BELOW GRADE ON THE LOWER SIDE OF BASE



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5 & 6
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

GENERAL NOTES

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

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FRO FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL BENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION.

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2, TYPE 5 AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER ALL BASE TYPES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

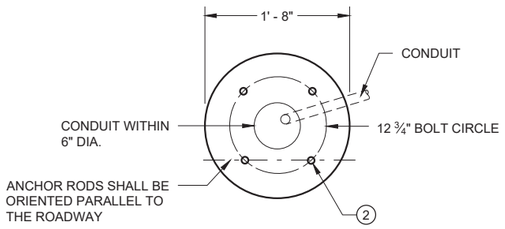
WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

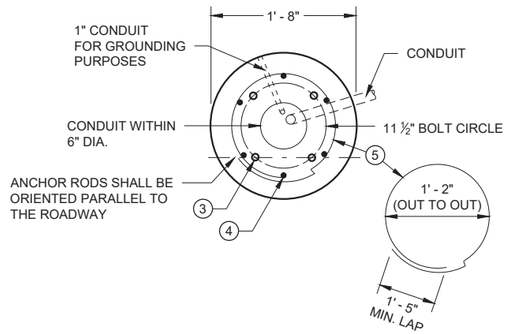
WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

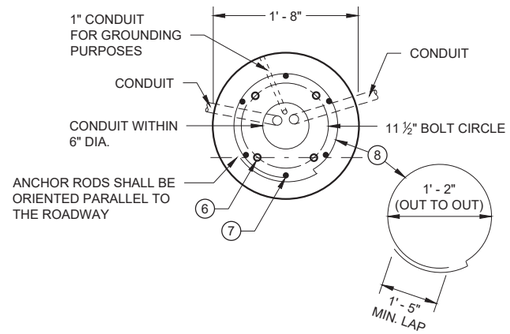
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

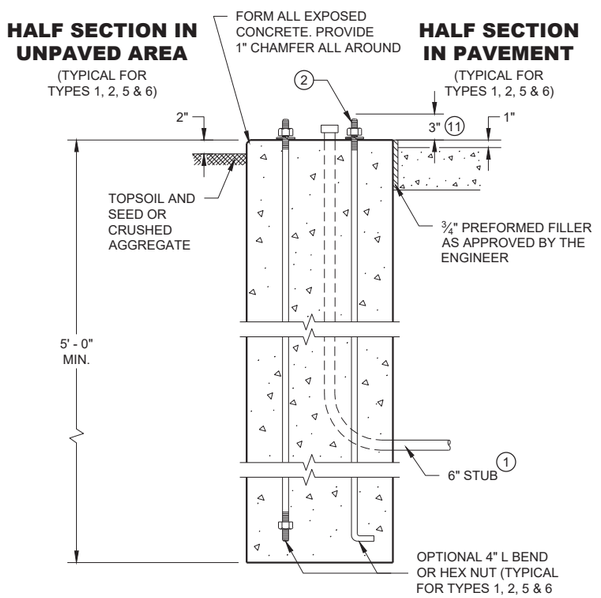
WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

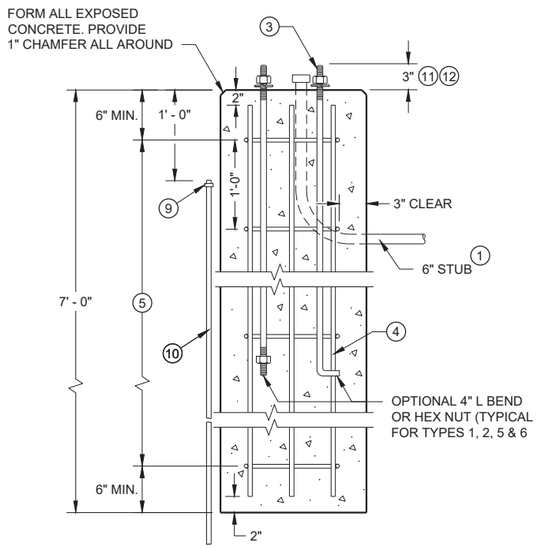




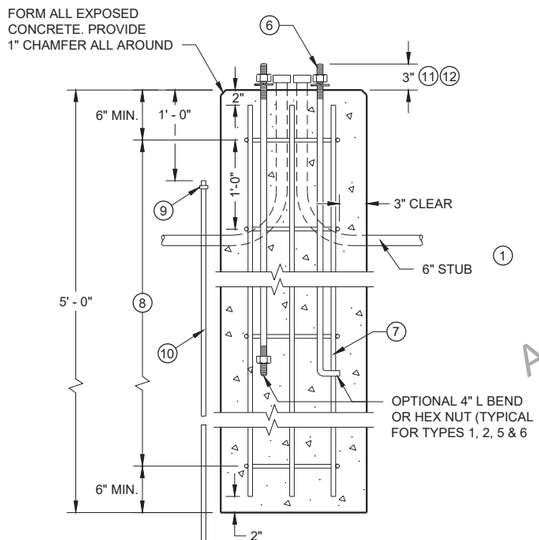




TYPE 1



TYPE 2



TYPE 5 & 6

1 THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

2 (4) 1" DIA. X 3' - 6" ANCHOR RODS.

3 (4) 1" DIA. X 5' - 0" ANCHOR RODS.

4 (6) NO. 6 X 6' - 8" BAR STEEL REINFORCEMENT.

5 (7) NO. 4 X 5' - 1" BAR STEEL REINFORCEMENT @ 1' - 0" C - C.

6 (4) 1" DIA. X 3' - 6" ANCHOR RODS.

7 (6) NO. 4 X 4' - 8" BAR STEEL REINFORCEMENT.

8 (5) NO. 4 X 5' - 1" BAR STELL REINFORCEMENT @ 1' - 0" C -C.

9 EXOTHERMIC CONNECTION TO EUIPMENT GROUNDING CONDUCTOR

10 ⅝" DIA. X 8' -0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED

11 ANY ANCHOR ROD PROJECTION SHORTER THAN 2 ¾" OR LONGER THAN 3 ¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

12 FOR NON - BREAKAWAY INSTALLATIONS, 4 ½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

CONCRETE BASES

CONCRETE BASES TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL PRE_227

FHWA

GENERAL NOTES

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

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 641.2.2 OF THE STANDARD SPECIFICATIONS.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED, U.L. LISTED, COPPER WITH BRASS OR STAINLESS STEEL SET SCREW, DIRECT BURY RATED, MECHANICAL CONNECTOR (LUG), SIZED TO ACCEPT AWG. #10 TO #4 COPPER STRANDED WIRE SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

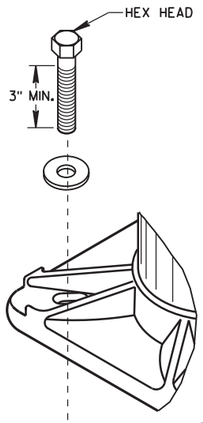
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

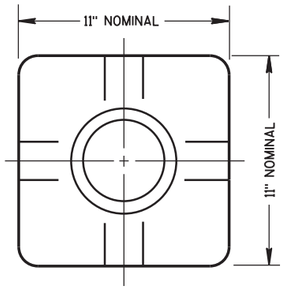
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

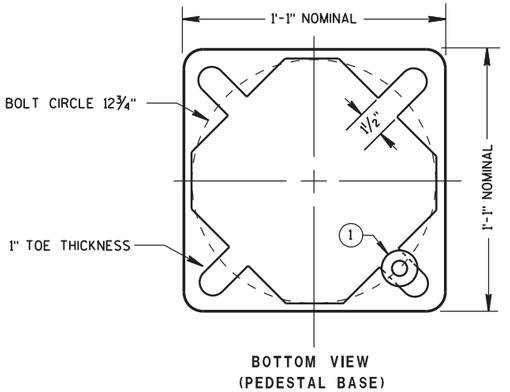
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

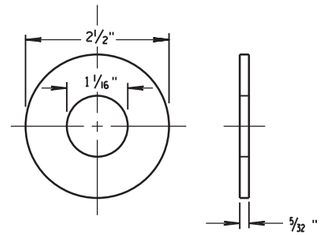




TOP VIEW
(PEDESTAL BASE)

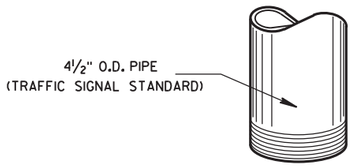


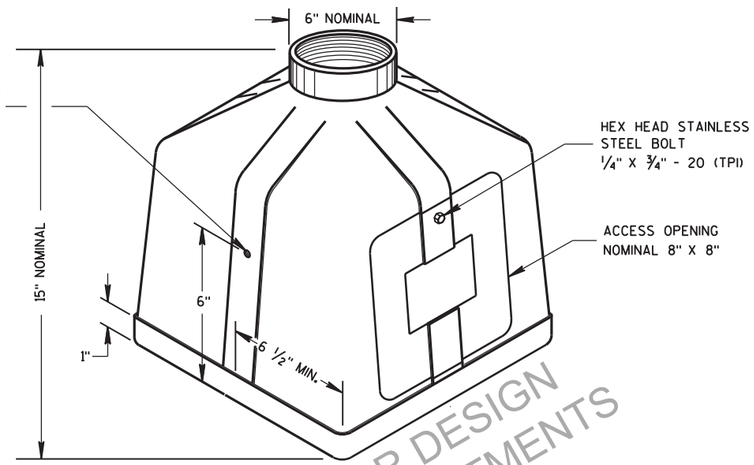
BOTTOM VIEW
(PEDESTAL BASE)



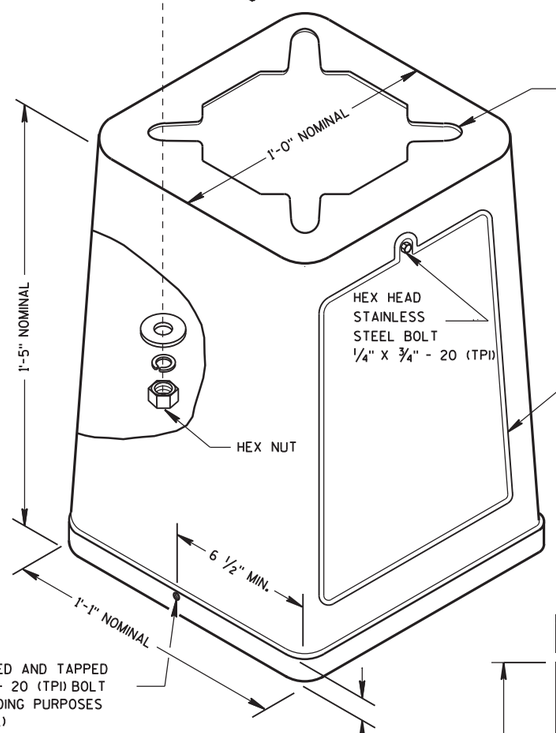
ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

PEDESTAL BASE WASHER (1)

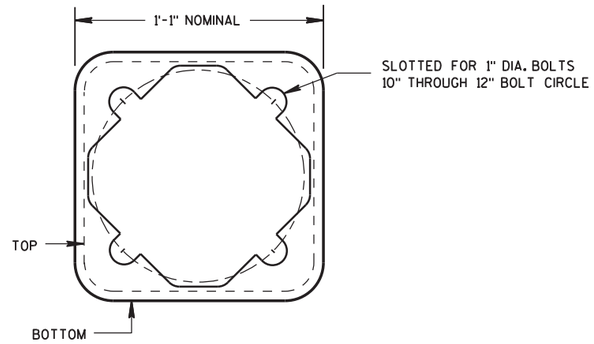




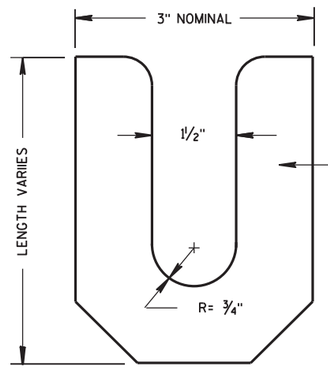
ISOMETRIC VIEW
PEDESTAL BASE



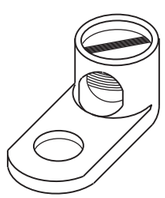
ISOMETRIC VIEW



BOTTOM VIEW
(TRANSFORMER BASE)



LEVELING SHIM



TYPICAL MECHANICAL CONNECTOR LUG
TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE
INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES

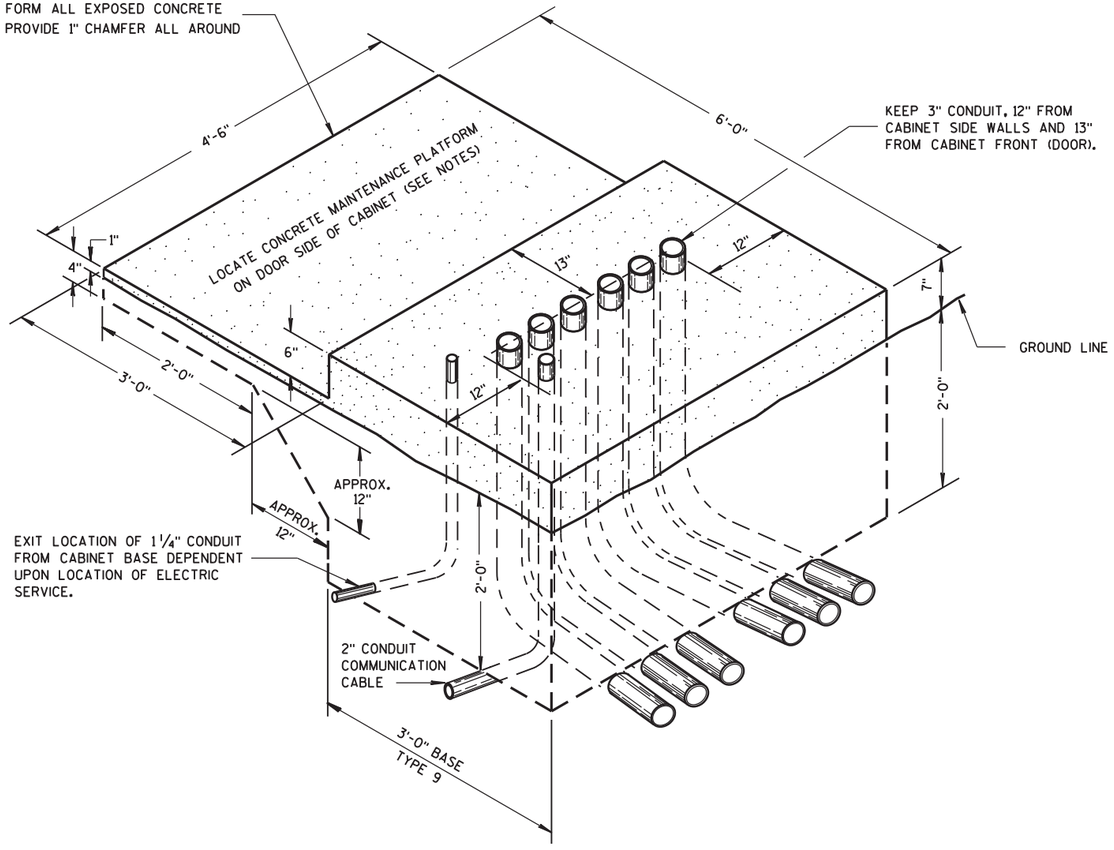
APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTR
FHWA

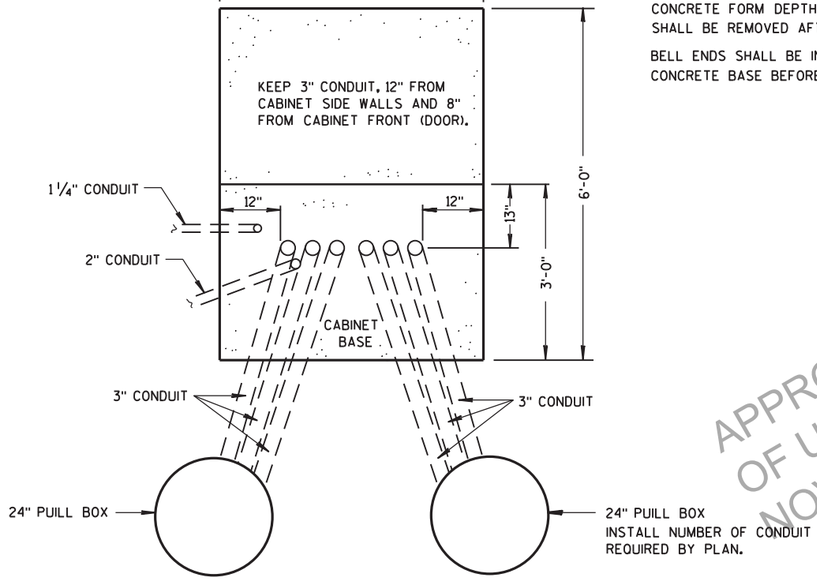
6
S.D.D. 9 C 3-4



ISOMETRIC VIEW

TYPE 9, SPECIAL

(C.Y. CONCRETE = APPROX. 1.56)



PLAN VIEW

CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL

GENERAL NOTES

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

INSTALL FOUR ½ INCH MINIMUM DIAMETER X 4 INCH MINIMUM LENGTH STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS WITH A PULLOUT STRENGTH OF 9,000 LBS. TO ANCHOR THE CABINET TO TYPE 6, 7, 8, AND 9 BASES. THE ANCHOR STUDS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND BE LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

PLUG ALL BELOW GRADE NONMETALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

CONDUIT EXITING THE CONCRETE BASE (SIX THREE INCH) SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTR
FHWA

SDD 9c11 Concrete Base Type 10

GENERAL NOTES

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

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 4 INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NONMETALLIC CONDUIT SHALL HAVE BELL END INSTALLED. ALL CONDUIT SHALL BE SLOPED TO PULL BOX.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUIT IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL ENTER THE BASE THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

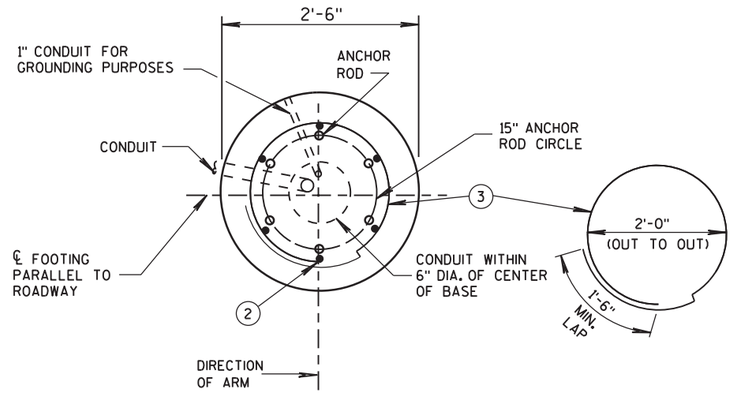
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

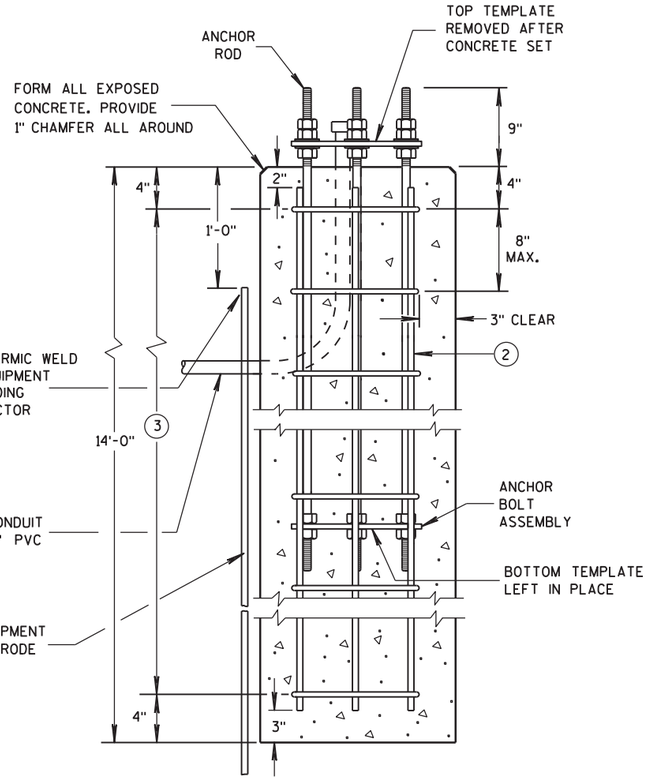
(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES. (GREATER THAN 36 INCHES IF INSTALLED IN BREAKER-RUN), EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

(2) (6) NO. 6 X 13'-7" BAR STEEL REINFORCEMENT.

(3) (21) NO. 5 X 7'-10" BAR STEEL REINFORCEMENT @ 8" MAX. C-C.

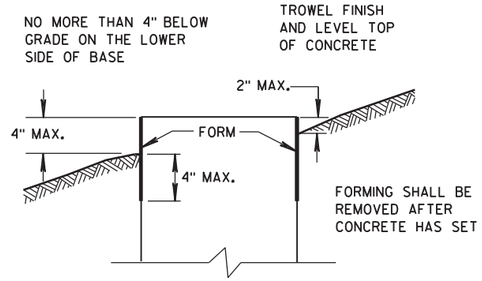
CONCRETE MASONRY	fc=3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	fy=60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 55 (IN ACCORDANCE WITH SECTION 641.2.2.3 OF THE STANDARD SPECIFICATION)	fy=55,000 p.s.i.
TEMPLATES, ASTM, A709 GRADE 36	fy=36,000 p.s.i.



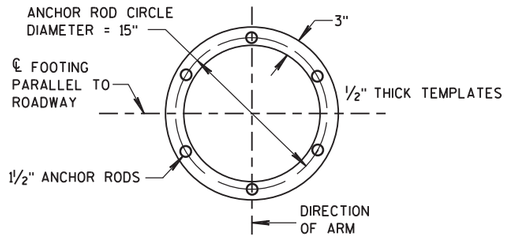


CONCRETE BASE TYPE 10
(FOR TYPE 9 & 10 & OVER HEIGHT (OH) POLES)

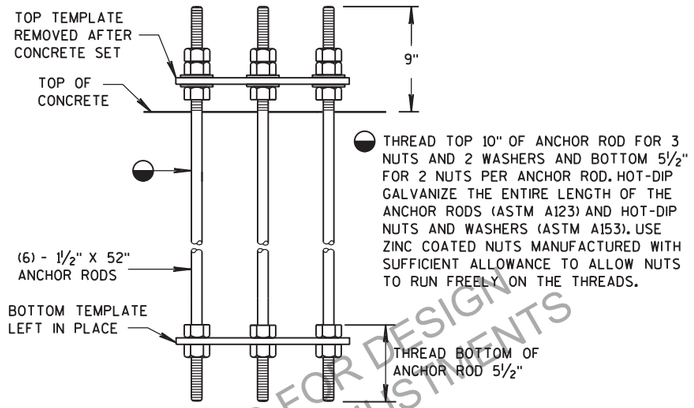
TO BE USED WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION. SEE S.D.D. 9C13-2 WHEN GROUND ELEVATION AT BASE IS LOWER THAN HIGH POINT OF ROADWAY ELEVATION.



FORMING DETAIL



TOP AND BOTTOM TEMPLATES



ANCHOR BOLT ASSEMBLY DETAIL

CONCRETE BASE TYPE 10 ANCHOR ASSEMBLY

QUANTITY REQUIREMENTS	
APPROX. CUBIC YARDS OF CONCRETE	2.5
LBS. OF HOOP BAR STEEL	172
LBS. OF VERTICAL BAR STEEL	122

APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

CONCRETE BASE TYPE 10

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

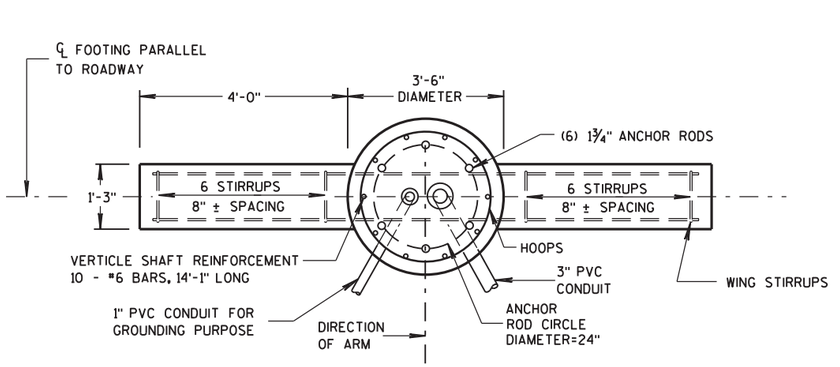
APPROVED
May 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTR
FHWA

PRE_230

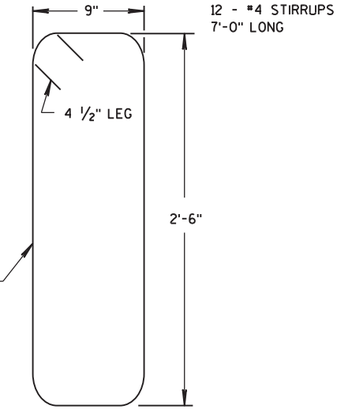
6

S.D.D. 9 C 11-10

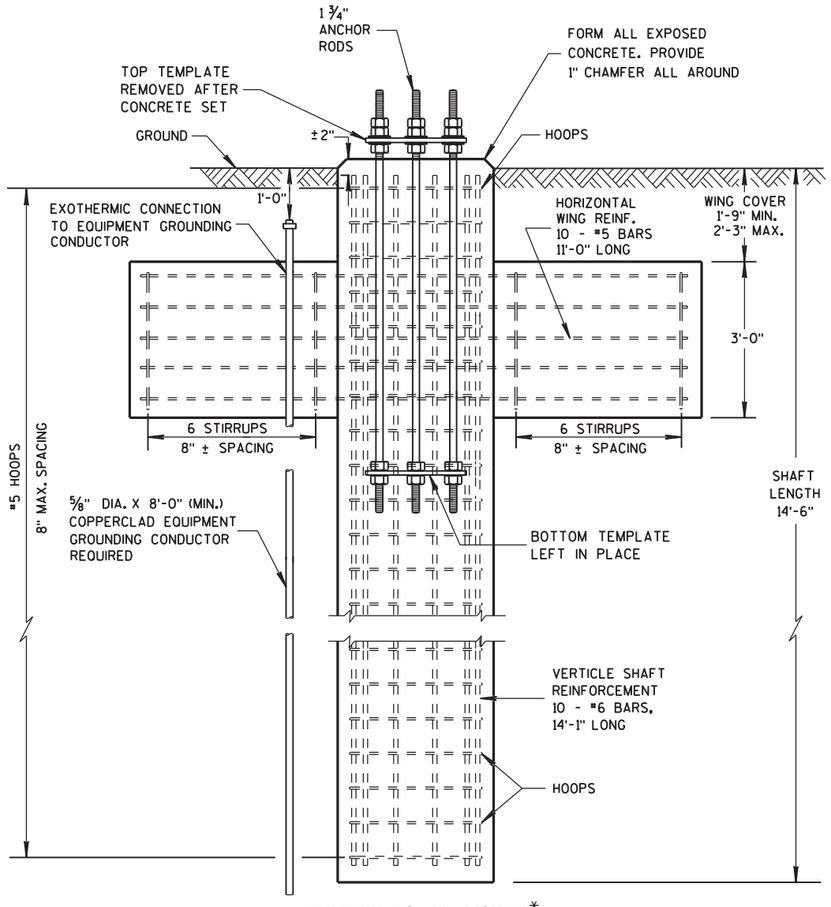
SDD 9c12-a Concrete Base Type 13



PLAN VIEW

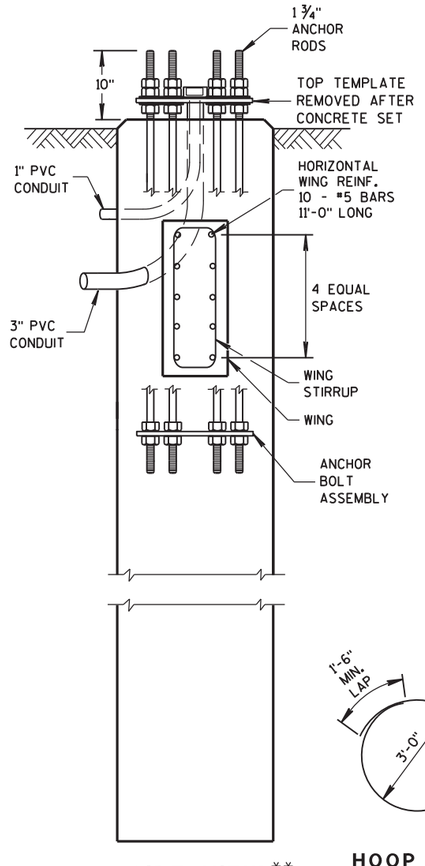


WING STIRRUP



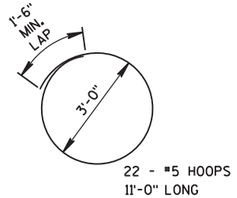
ELEVATION VIEW*

* CONDUITS ARE NOT SHOWN ON THIS VIEW FOR CLARITY



SIDE VIEW**

** HOOPS AND VERTICAL SHAFT REINFORCEMENT NOT SHOWN ON THIS VIEW FOR CLARITY



HOOP DETAIL

GENERAL NOTES

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

ORIENT ANCHOR RODS IN FOOTING AND PROVIDE ANCHOR ROD PROJECTION ABOVE TOP OF CONCRETE FOOTING BASE PER THIS SHEET.

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

USE 3" CLEAR FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF THE UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

WELDING OF ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

BASES (SHAFT), BELOW THE WING, SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUNG THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

TOP SURFACE OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZE AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASE SHALL BE 4½" INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NONMETALLIC CONDUIT SHALL HAVE BELL ENDS INSTALLED. ALL CONDUIT SHALL SLOPE TO PULL BOX.

ALL CONDUIT ENDS AT THE TOP OF THE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTOR FITTINGS, UL LISTED FOR ELECTRICAL USE, SHALL BE USED.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE THROUGH A 1-INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4-FOOT COIL OF WIRE ABOVE THE CONCRETE BASE, THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS.

THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVEL WAY SHALL BE 24-INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18-INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36-INCHES, (GREATER THAN 36-INCHES IF INSTALLED IN BREAKER-RUN), EXCEPT WITH THE WRITTEN APPROVAL OF THE ENGINEER.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

CONCRETE MASONRY	fc=3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	fy=60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 55 (IN ACCORDANCE WITH SECTION 641.2.2.3 OF THE STANDARD SPECIFICATIONS	fy=55,000 p.s.i.
TEMPLATES, ASTM A709 GRADE 36	fy=36,000 p.s.i.

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

(FOR TYPE 12 & 13 & OVER HEIGHT (OH) POLES)

CONCRETE = 6.3 C.Y.
H.S. REINFORCEMENT = 635 LBS.

TO BE USED WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION.
SEE S.D.D. 9C13-2 WHEN GROUND ELEVATION AT BASE IS LOWER THAN HIGH POINT OF ROADWAY ELEVATION.

CONCRETE BASE TYPE 13

STATE OF WISCONSIN
DEPARTMENT OF TRAN

PRE_231

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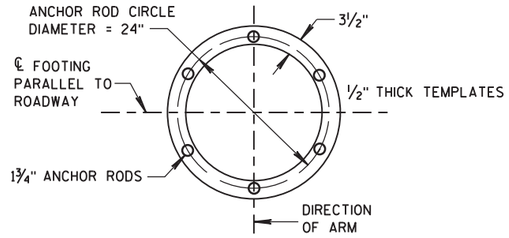
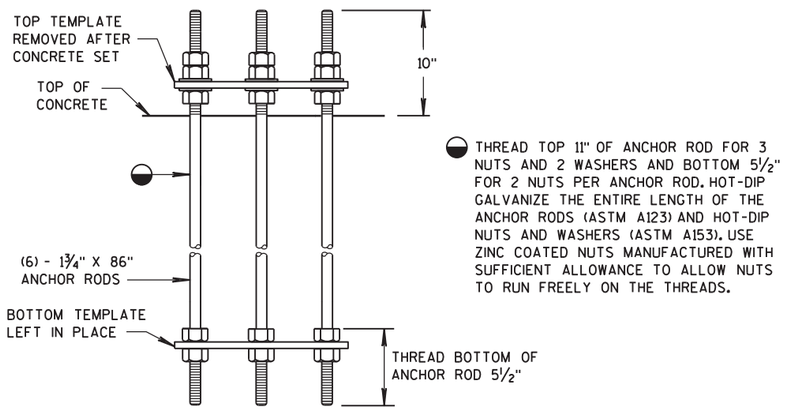
S.D.D. 9 C 12-9a

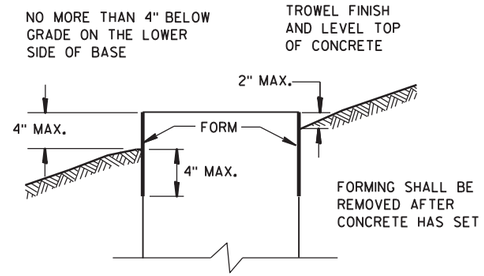


TOP AND BOTTOM TEMPLATES



ANCHOR BOLT ASSEMBLY DETAIL

CONCRETE BASE TYPE 13 ANCHOR ASSEMBLY



FORMING DETAIL

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

CONCRETE BASE TYPE 13

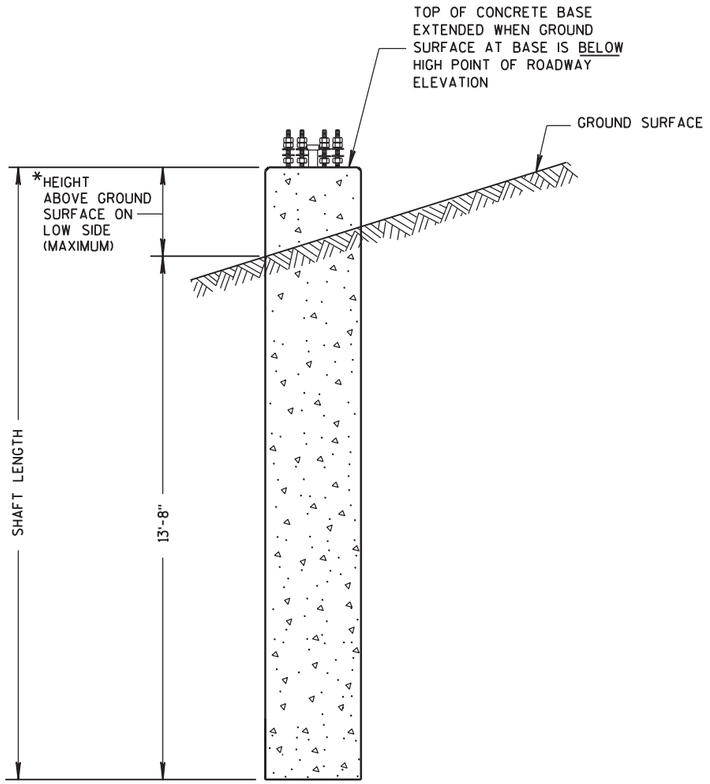
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2017
DATE
/S/ Ahmet Demirbilek
STATE ELECTI
FHWA

SDD 9c13 Concrete Base Type 10 and Type 13 Extension

REINFORCEMENT AND CONCRETE QUANTITIES ADJUSTED FOR EXTENDED TYPE 10 CONCRETE BASE

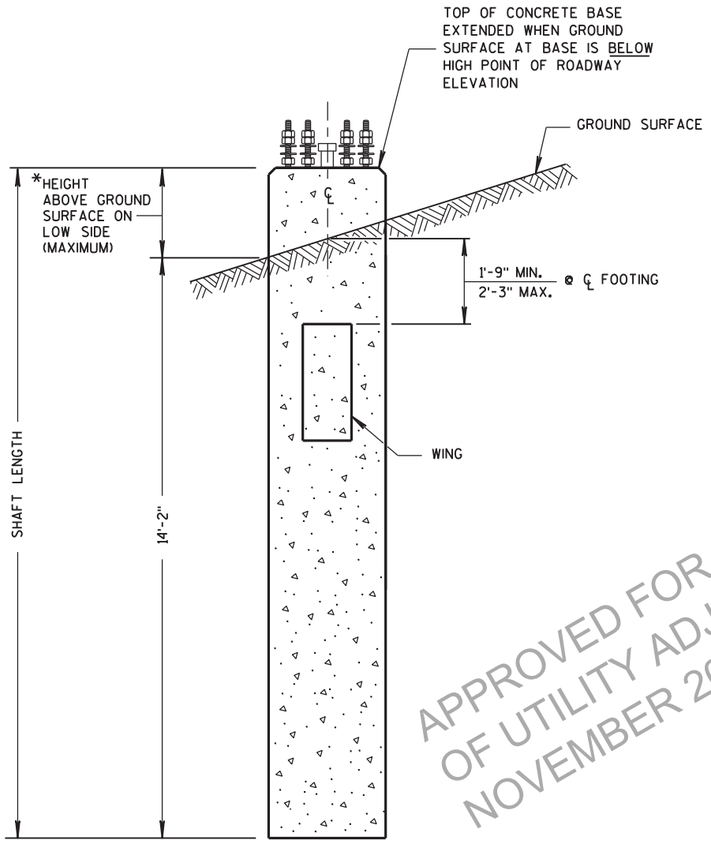
HEIGHT INCREASE REQUIRED	* HEIGHT ABOVE GROUND SURFACE ON LOW SIDE (MAXIMUM)	SHAFT LENGTH	LENGTH OF #6 VERTICAL REINF.	NO. OF #4 HOOPS	C.Y. OF CONCRETE	LBS. OF HOOP BAR STEEL	LBS. OF VERTICAL BAR STEEL
>0" TO 6"	10"	14'-6"	14'-1"	16	2.6	78	127
>6" TO 1'-0"	1'-4"	15'-0"	14'-7"	16	2.7	78	131
>1'-0" TO 1'-6"	1'-10"	15'-6"	15'-1"	17	2.8	83	136
>1'-6" TO 2'-0"	2'-4"	16'-0"	15'-7"	17	2.9	83	141



CONCRETE BASE TYPE 10 (EXTENDED)

REINFORCEMENT AND CONCRETE QUANTITIES ADJUSTED FOR EXTENDED TYPE 13 CONCRETE BASE

HEIGHT INCREASE REQUIRED	* HEIGHT ABOVE GROUND SURFACE ON LOW SIDE (MAXIMUM)	SHAFT LENGTH	LENGTH OF #6 VERTICAL REINF.	NO. OF #4 HOOPS	C.Y. OF CONCRETE	LBS. OF H.S. BAR STEEL
>0" TO 6"	10"	15'-0"	14'-7"	16	6.5	447
>6" TO 1'-0"	1'-4"	15'-6"	15'-1"	16	6.6	454
>1'-0" TO 1'-6"	1'-10"	16'-0"	15'-7"	17	6.8	469
>1'-6" TO 2'-0"	2'-4"	16'-6"	16'-1"	17	7.0	476



CONCRETE BASE TYPE 13 (EXTENDED)

APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

CONCRETE BASE
TYPE 10 & TYPE 13 EXTENSION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11-26-2013 DATE
/S/ Ahmet Demirbilek
STATE ELECTI
FHWA

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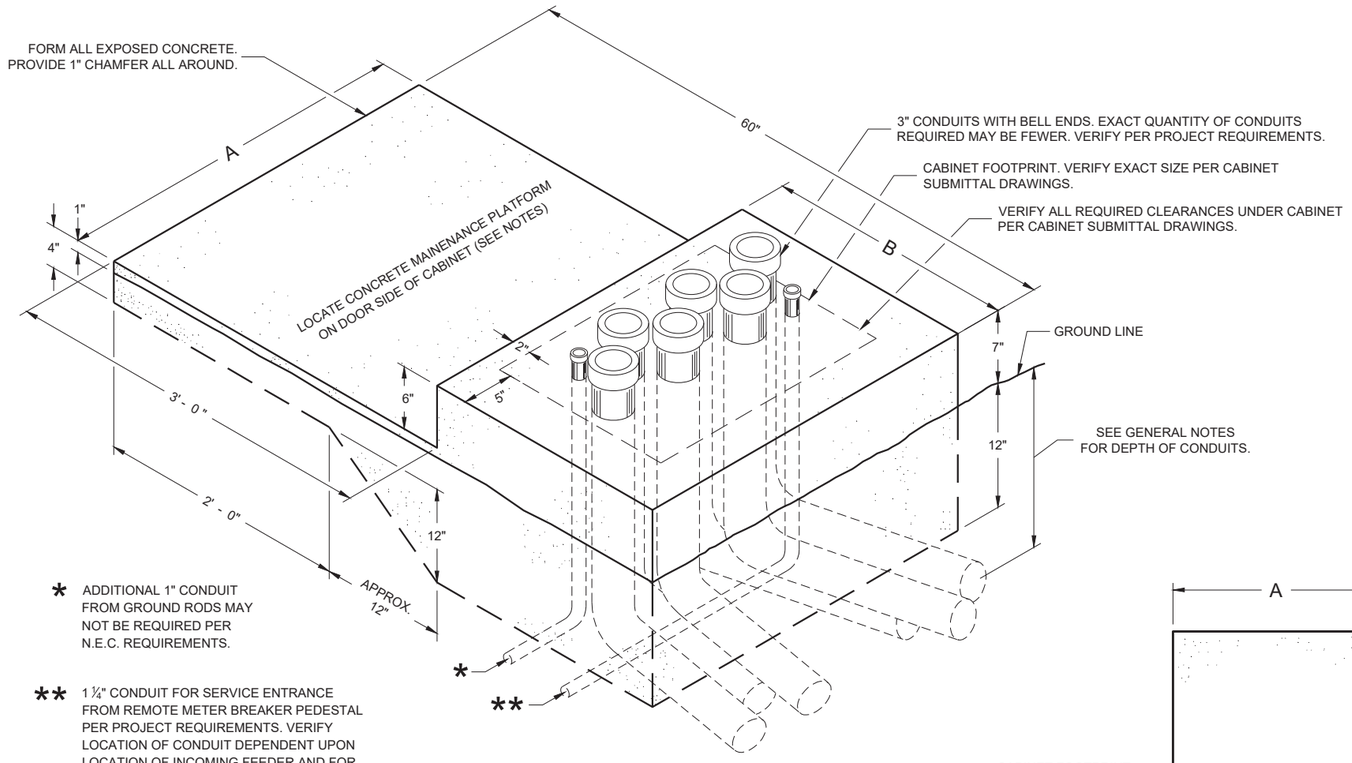
S.D.D. 9 C 13-2

SDD 09C14 Concrete Control Base, Type-L

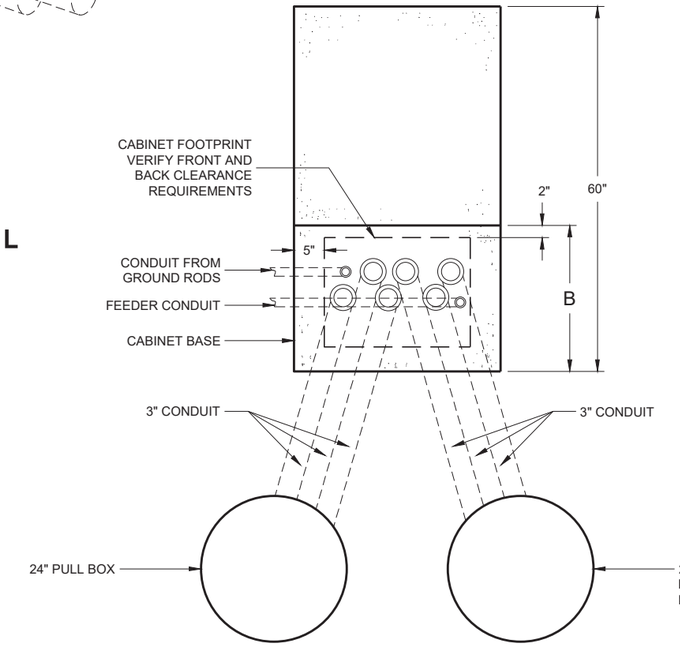


* ADDITIONAL 1" CONDUIT FROM GROUND RODS MAY NOT BE REQUIRED PER N.E.C. REQUIREMENTS.

** 1 ¼" CONDUIT FOR SERVICE ENTRANCE FROM REMOTE METER BREAKER PEDESTAL PER PROJECT REQUIREMENTS. VERIFY LOCATION OF CONDUIT DEPENDENT UPON LOCATION OF INCOMING FEEDER AND FOR EASE OF CONNECTION TO LOAD CENTER.

ISOMETRIC VIEW
CONCRETE CONTROL CABINET BASE, TYPE L
(C.Y. CONCRETE = APPROX. 0.4)

CONCRETE BASE TYPE	CABINET WIDTH	DIMENSIONS		MAXIMUM 3" CONDUITS
		A	B	
L24	24"	34"	24"	4
L30	30"	40"	24"	6



PLAN VIEW
CONCRETE CONTROL CABINET BASE, TYPE L

GENERAL NOTES

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

INSTALL FOUR STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS TO ANCHOR THE CABINET BASES. THE ANCHORS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NON - METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U. L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

LOCATIONS SHALL BE AS SHOWN ON THE PLANS UNLESS DETERMINED BY THE ENGINEER IN THE FIELD.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT EQUALS 6 TIMES THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

PLUG ALL BELOW GRADE NON - METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON - METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6 INCHES MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

CONDUIT EXITING THE CONCRETE BASE SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6 INCH MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

CONCRETE CONTROL CABINET BASE, TYPE L

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL PRE_234

FHWA

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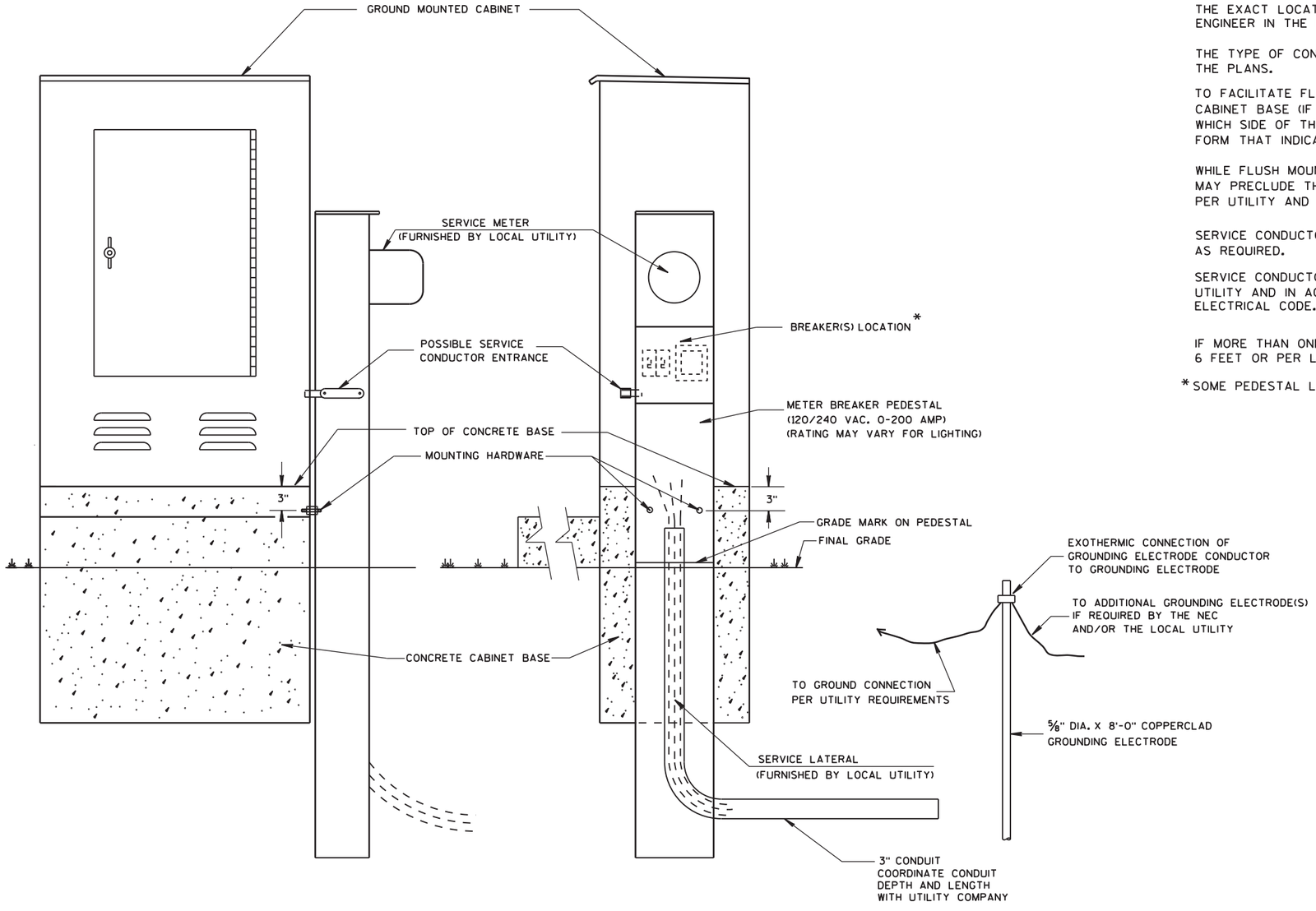
SDD 09C14 - 03

SDD 9d1 Cabinet Service Installation (Meter Breaker Pedestal)



TYPICAL CABINET SERVICE INSTALLATION

GENERAL NOTES

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

THE EXACT LOCATION OF THE METER BREAKER PEDESTAL SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE TYPE OF CONCRETE CABINET BASE TO BE INSTALLED SHALL BE AS CALLED FOR IN THE PLANS.

TO FACILITATE FLUSH MOUNTING OF THE METER BREAKER PEDESTAL AGAINST THE SIDE OF THE CABINET BASE (IF FLUSH MOUNTING POSSIBLE. CONFER WITH THE LOCAL UTILITY TO DETERMINE WHICH SIDE OF THE CONCRETE BASE THE ELECTRICAL SERVICE LATERAL WILL APPROACH. THEN FORM THAT INDICATED SIDE FOR FULL SIDE DEPTH.

WHILE FLUSH MOUNTING IS THE MOST DESIRABLE MOUNTING CONFIGURATION UTILITY REQUIREMENTS MAY PRECLUDE THIS OPTION. CONTRACTOR MUST PROVIDE UTILITY APPROVED PEDESTAL AND INSTALL PER UTILITY AND MANUFACTURERS REQUIREMENTS.

SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID METALLIC CONDUIT, NIPPLES AND/OR CONDULETS AS REQUIRED.

SERVICE CONDUCTOR ENTRANCES SHALL BE SIZED AND LOCATED AS REQUIRED BY THE LOCAL UTILITY AND IN ACCORDANCE WITH APPROPRIATE ARTICLES OF THE LATEST ACCEPTED NATIONAL ELECTRICAL CODE.

IF MORE THAN ONE GROUNDING ELECTRODE IS REQUIRED, THE DISTANCE APART SHALL BE 6 FEET OR PER LOCAL UTILITY REGULATIONS.

* SOME PEDESTAL LIGHTING PLANS SHOW MAIN LUGS ONLY.

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

CABINET SERVICE INSTALLATION
(METER BREAKER PEDESTAL)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014
DATE

/S/ Ahmet Demirbilek
STATE ELECTR

FHWA

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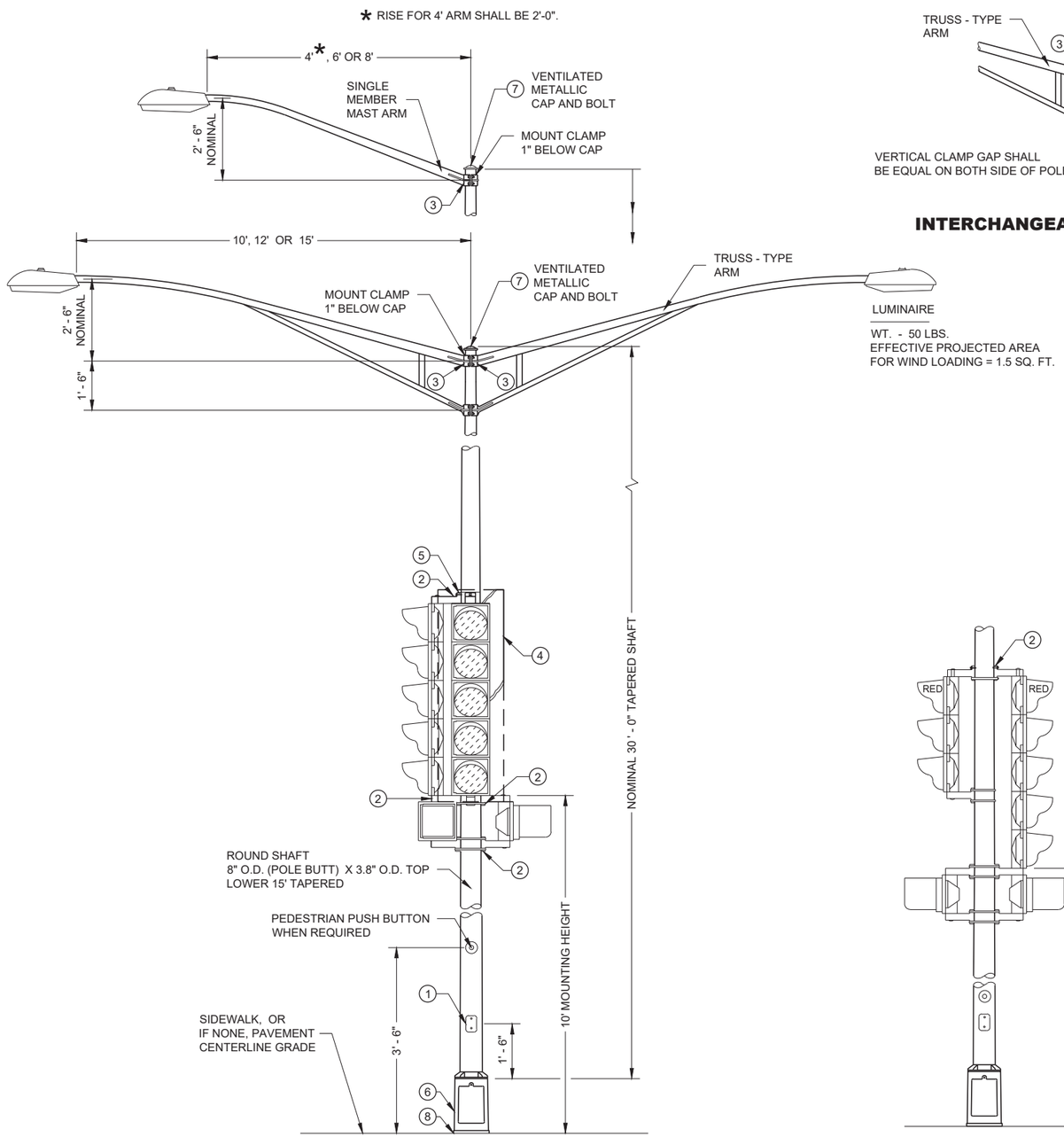
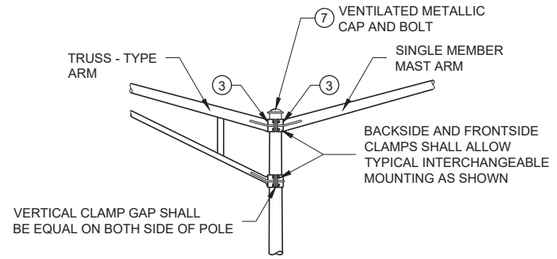
S.D.D. 9 D 1-5

SDD 09E01-c Pole Mountings for Traffic Signals and Lighting Units, Type 4



(MAXIMUM LOAD)



INTERCHANGEABLE MOUNTING DETAIL

GENERAL NOTES

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

ALL TYPE 4 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL WITH A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (.1196").

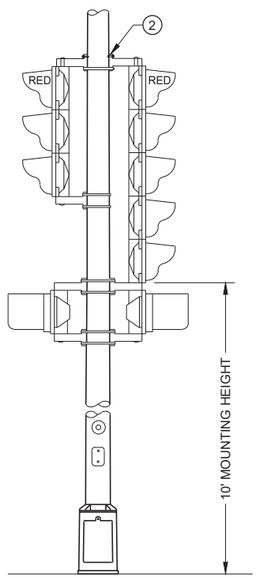
SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

A PULL WIRE / ROPE SHALL BE INSTALLED IN EACH TROMBONE ARM RACEWAY DURING THE MANUFACTURING PROCESS.

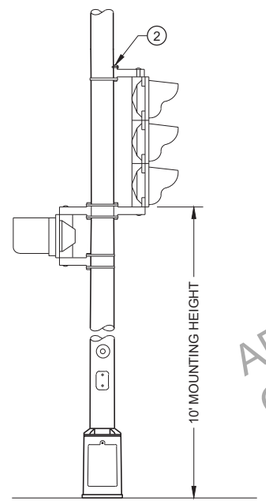
THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2 3⁄8 INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

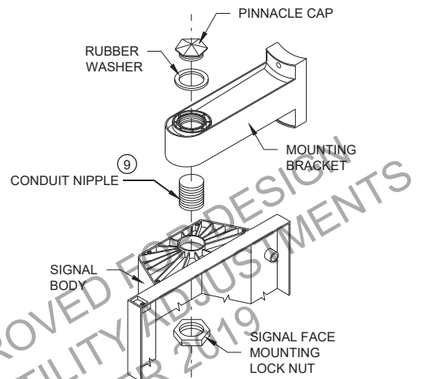
1. 4" X 6" REINFORCED HANDHOLE AND COVER ASSEMBLY WITH TWO (2) ¼" X ¾" - 20 TPI , STAINLESS STEEL, HEX HEAD BOLTS.
2. SIGNAL FACE MOUNTING BRACKETS. MOUNT WITH CAP SCREWS AND BANDING.
3. GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 3⁄8" HOLE IN POLE SHAFT FOR WIRING.
4. SECURELY MOUNT DULL BLACK POLYCARBONATE BACK PLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURER'S RECOMMENDATIONS.
5. POLE MOUNTED SIGNAL FACES SHALL REQUIRE ONE OR MORE MOUNTING SPACERS UNDER THE TOP MOUNTING BRACKET(S) AS REQUIRED, TO PLUMB THE SIGNAL FACE.
6. CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.
7. FURNISH AND INSTALL VENTILATED, CAST METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.
8. SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND POLE.
9. USE 1 ½" ID NIPPLES ZINC-COATED RIGID METAL CONDUIT, LONG ENOUGH TO ACCOMMODATE FULL DEPTH THREADING INTO THE HEAD MOUNTING LOCK NUT IN ORDER TO TIGHTEN THE FACE, BUT THAT DO NOT INTERFERE WITH REFLECTOR CLOSURE. THREAD THE NIPPLE INTO THE MOUNTING BRACKET/ELBOW UNTIL TIGHT. USE APPROVED PINNACLE TYPE HARDWARE FROM A DEPARTMENT APPROVED MANUFACTURER TO CLOSE THE UNUSED 1 ½" OPENING IN SIGNAL FACES AND BRACKET ENDS.



TYPICAL MOUNTING OF BACK TO BACK 3 AND 5 SECTION SIGNAL FACES



TYPICAL MOUNTING OF 3 SECTION SIGNAL FACE



SIGNAL FACE MOUNTING DETAIL (BANDED)

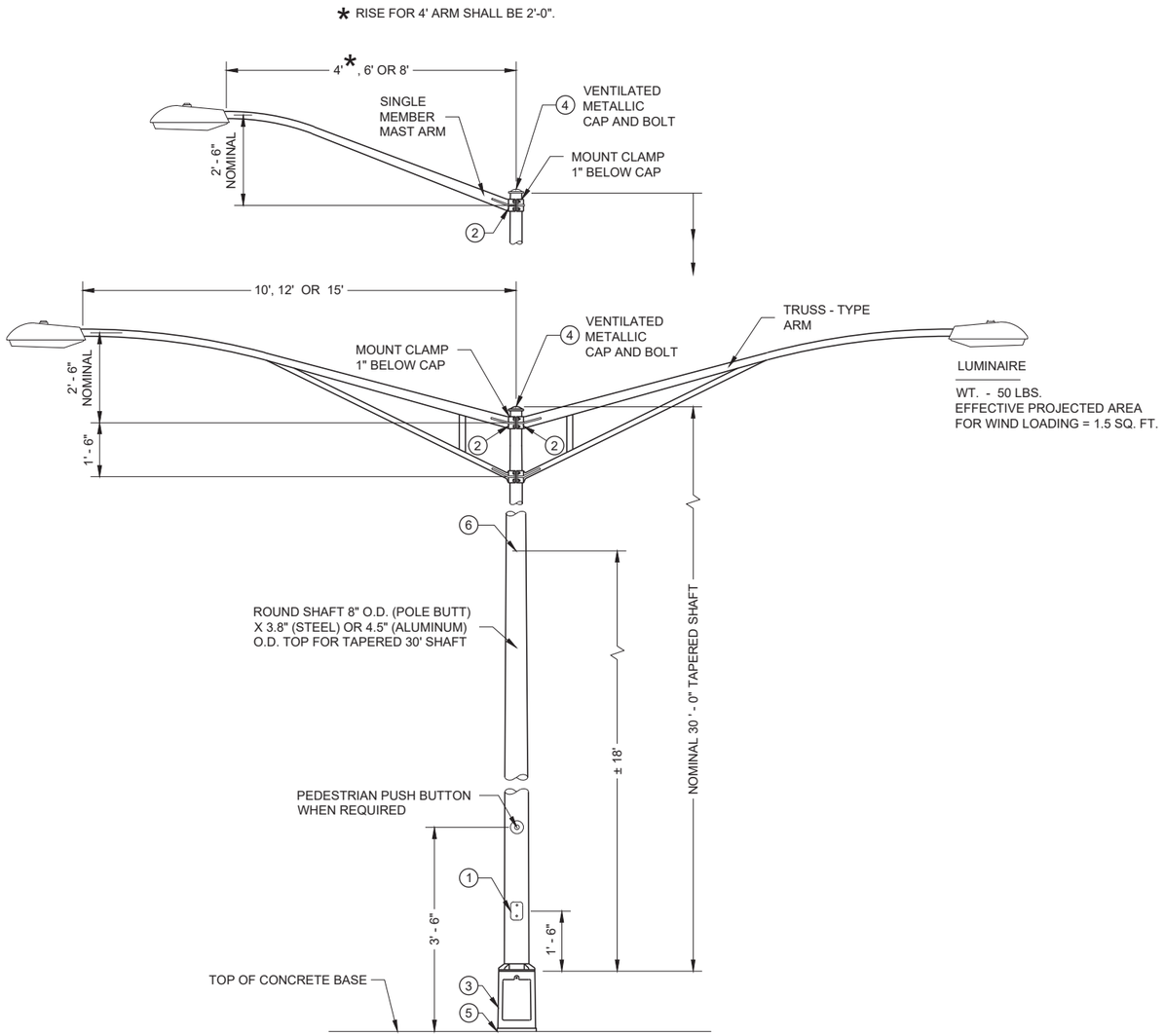
APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

TYPE 4 POLE MOUNTING CONFIGURATION

POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS, TYPE 4

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO PRE_236

SDD 09E01-d Pole Mountings for Lighting Units, Type 5



TYPE 5 POLE MOUNTING CONFIGURATION
(MAXIMUM LOAD)
LIGHTING ONLY

GENERAL NOTES

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

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

ALL TYPE 5 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL OR ALUMINUM, AS CALLED FOR IN THE CONTRACT.

TYPE 5 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063 - T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

TYPE 5 ALUMINUM POLES SHALL HAVE A MINIMUM WALL THICKNESS OF 0.1888".

TYPE 5 STEEL POLES SHALL HAVE A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (0.1196").

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2 ⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" X 6" REINFORCED HANDHOLE AND COVER ASSEMBLY WITH TWO (2) ¼" X ¾" - 20 TPI , STAINLESS STEEL, HEX HEAD BOLTS.

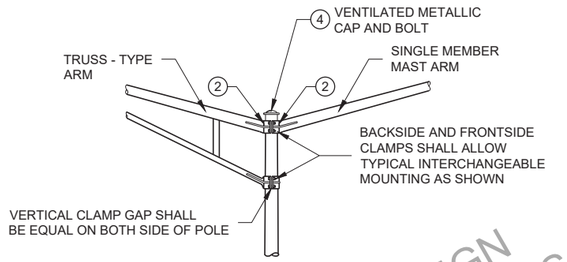
(2) GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 ⅜" HOLE IN POLE SHAFT FOR WIRING.

(3) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.

(4) FURNISH AND INSTALL VENTILATED, CAST METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(5) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND POLE.

(6) INTERNAL DUMBBELL - TYPE VIBRATION DAMPER.



INTERCHANGEABLE MOUNTING DETAIL

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO PRE_237

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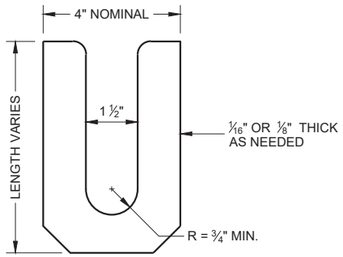
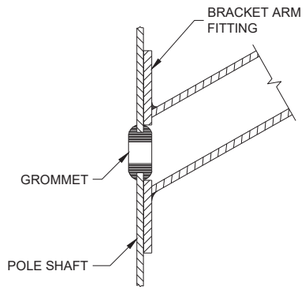
SDD 09E01 - 15d

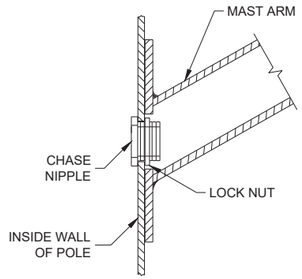
SDD 09E01-g Hardware Details for Pole Mounting



LEVELING SHIM (1)
SHALL BE ALUMINUM



TYPICAL APPLICATION OF GROMMET IN POLE SHAFT



TYPICAL APPLICATION OF CHASE NIPPLE IN POLE SHAFT

GENERAL NOTES

CLAMP BOLT-NUT TIGHTENING TORQUE SHALL BE INDICATED BY INDENT STAMPING (1/2 INCH NUMERALS AND LETTERS) OR WEATHERPROOF PRINTING ON THE INSIDE OF THE CLAMP THAT IS WELDED TO THE ARM MEMBER.

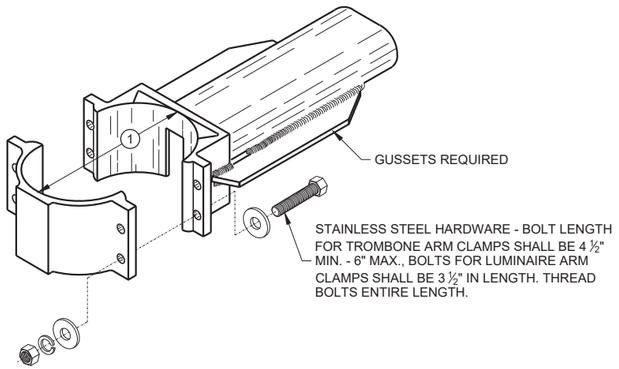
(1) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP. 6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

(2) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)

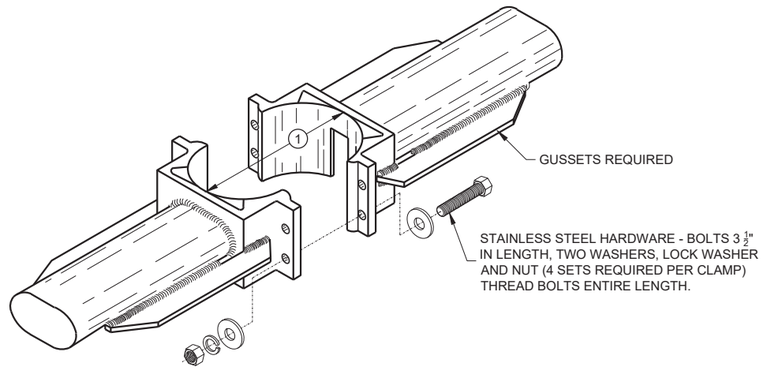
(3) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(4) LEVELING SHIMS, DESIGNED FOR THE PURPOSE, SHALL BE USED WHEN PLUMBING POLES. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE. LEVELING SHIMS SHALL BE USED ONLY BETWEEN THE TOP OF THE CONCRETE BASE AND A METALLIC BASE PLATE.

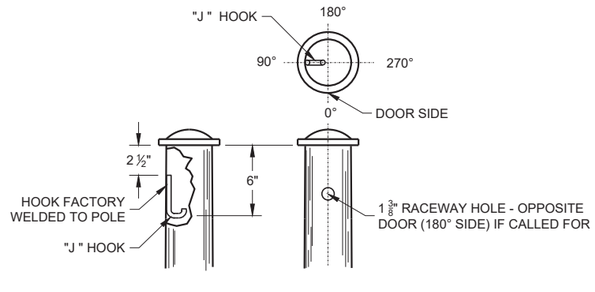
SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



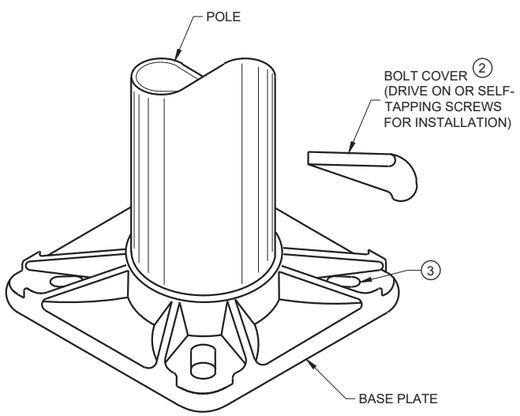
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



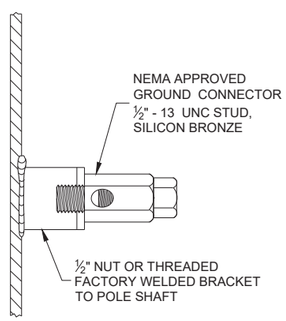
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

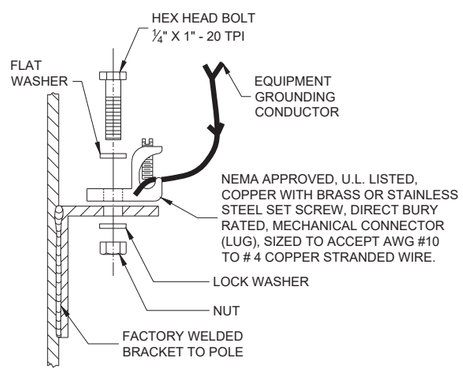


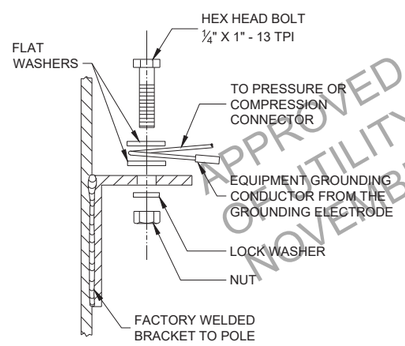
TYPICAL "J" HOOK LOCATION



BASE PLATE







TYPICAL GROUNDING CONNECTIONS
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL

APPROVED FOR DESIGN
UTILITY ADJUSTMENTS
NOVEMBER 2019

HARDWARE DETAILS FOR POLE MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL PRE_238

FHWA

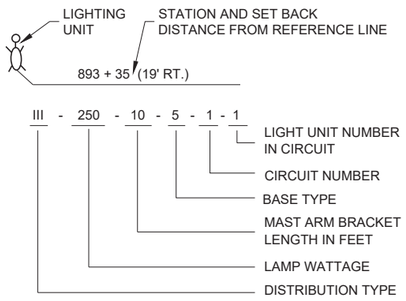
SDD 09E03 Non-Freeway Lighting Unit Pole Wiring

GENERAL NOTES

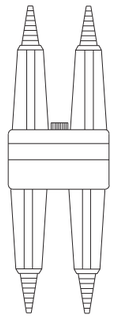
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EQUIPMENT GROUND CONNECTOR SHALL BE TAPED WITH 3 WRAPS (MINIMUM) OF APPROVED RUBBER TAPE AND 3 WRAPS (MINIMUM) OF APPROVED VINYL TAPE TO COVER SHARP WIRE ENDS AFTER THE CONNECTION IS COMPLETED.

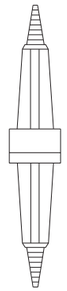
WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.



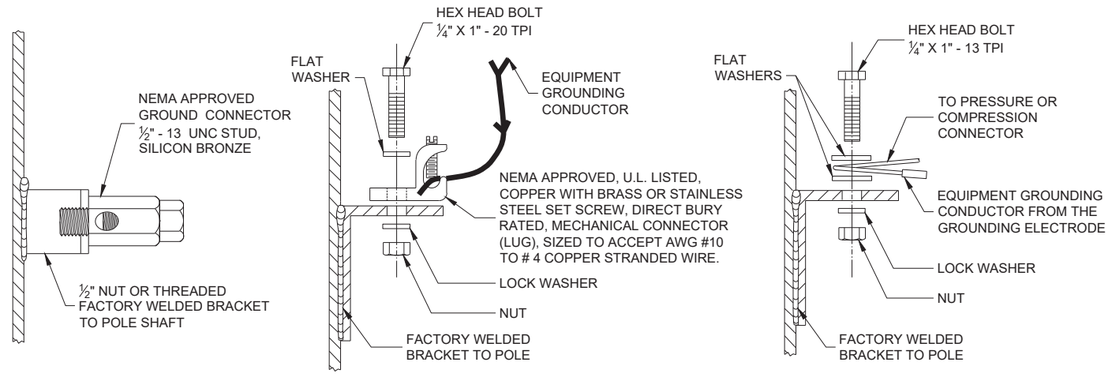
LIGHTING UNIT CODE
(TYPICAL)



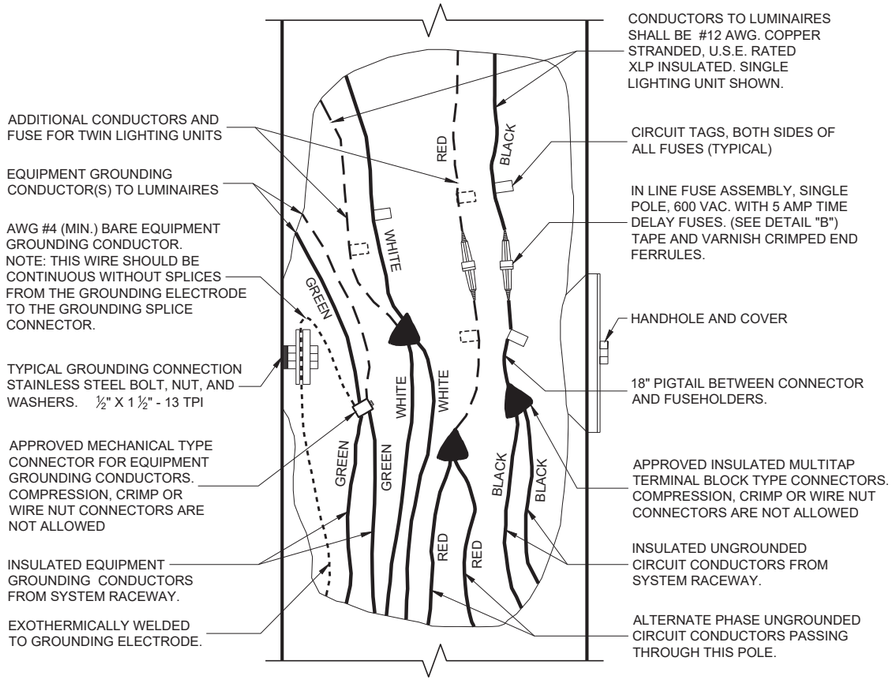
DETAIL "A"
BREAKAWAY DOUBLE POLE WITH WATERPROOF INSULATING BOOT



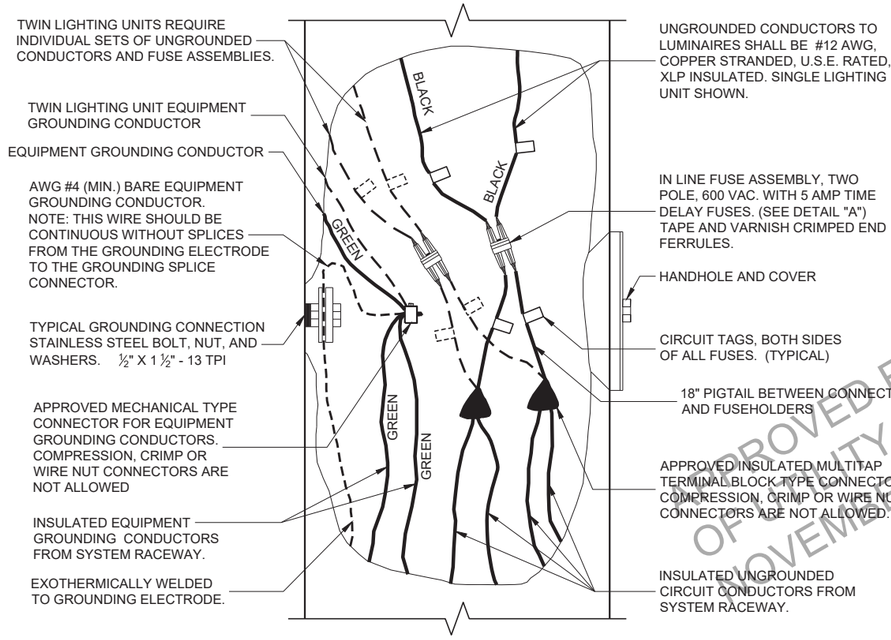
DETAIL "B"
BREAKAWAY SINGLE POLE WITH WATERPROOF INSULATING BOOT



TYPICAL GROUNDING CONNECTIONS
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



3 WIRE - 120, 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH GROUNDING CONDUCTOR AND EQUIPMENT GROUNDING CONDUCTOR



2 WIRE - 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH EQUIPMENT GROUNDING CONDUCTOR

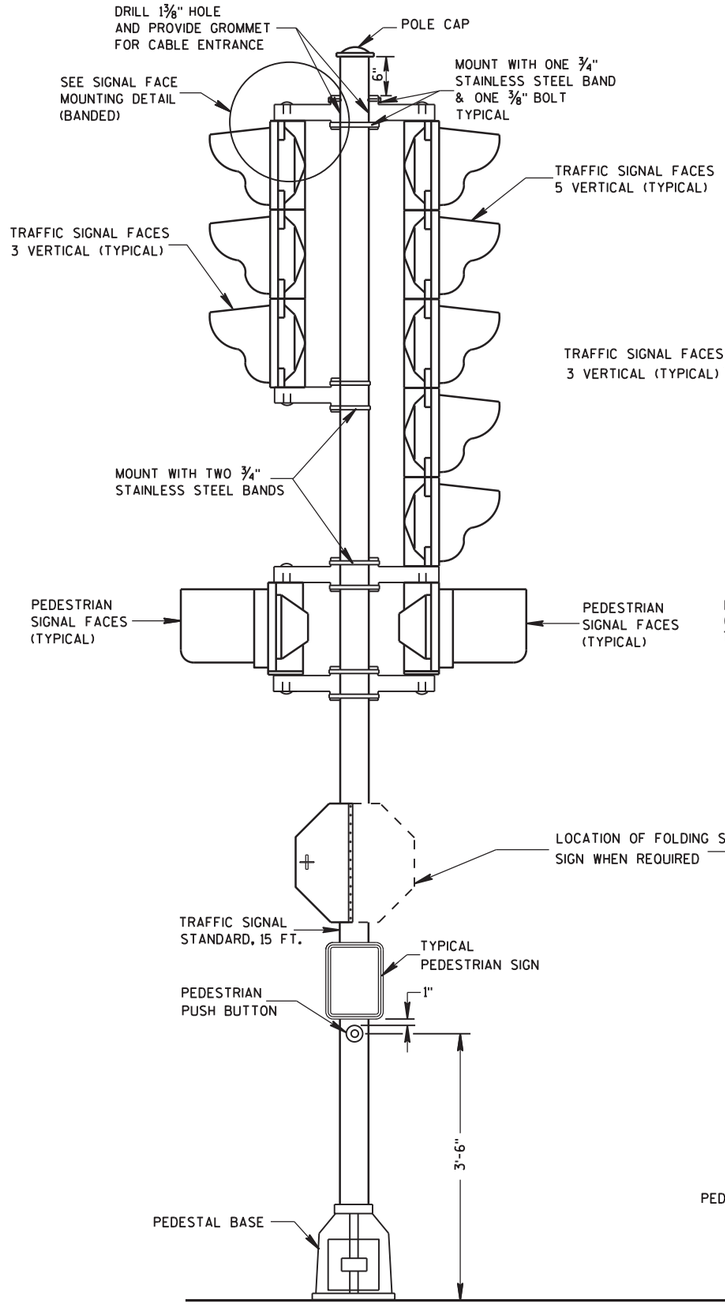
APPROVED FOR DESIGN CONTINUITY ADJUSTMENTS NOVEMBER 2019

NON - FREEWAY LIGHTING UNIT POLE WIRING

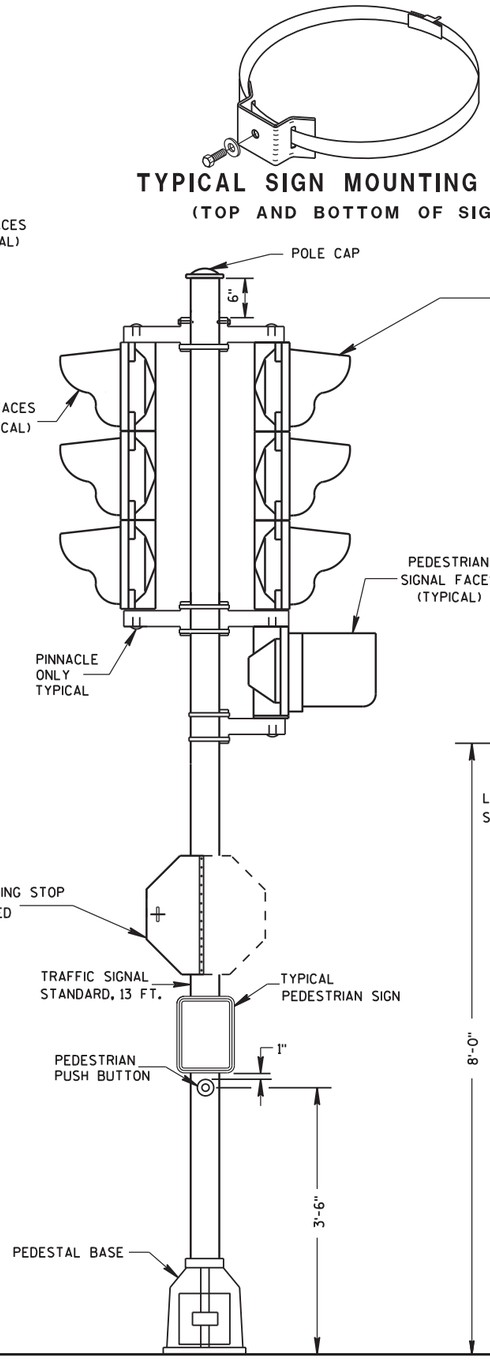
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL PRE_239
FHWA

SDD 9e6 Traffic Signal Standard Poly Bracket Mountings (Typical) 13 ft. or 15 ft.

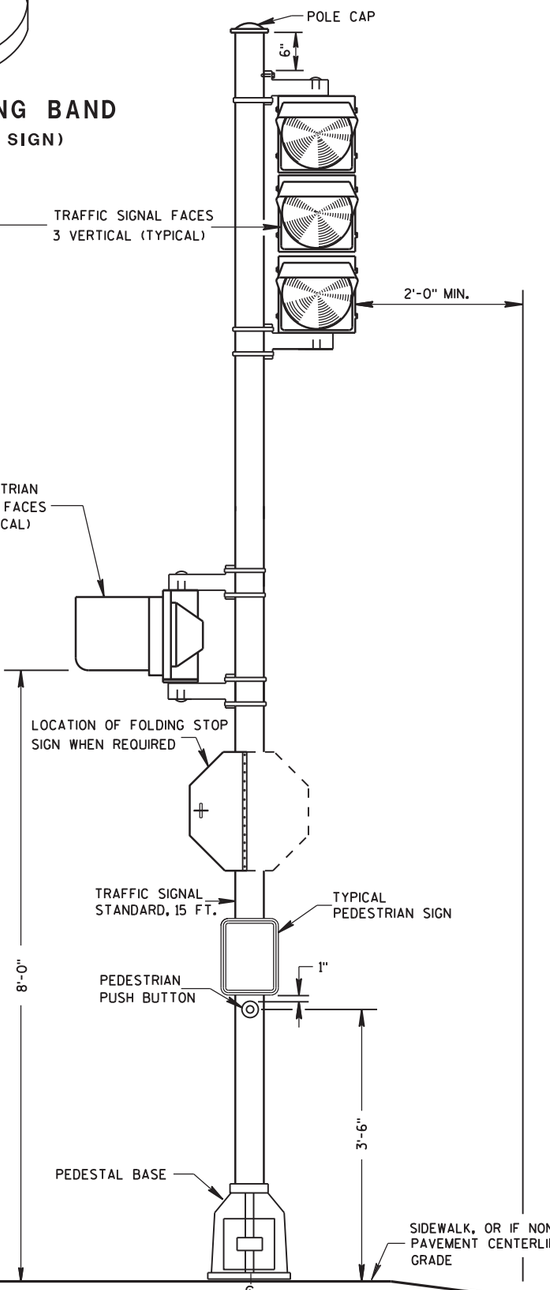


TRAFFIC SIGNAL STANDARD-15 FT.



TRAFFIC SIGNAL STANDARD-13 FT.

TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



TRAFFIC SIGNAL STANDARD-15 FT.
3M MOUNTING (TYPICAL)

GENERAL NOTES

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

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIAL PROVISIONS.

POLYCARBONATE MOUNTING BRACKETS SHALL BE USED.

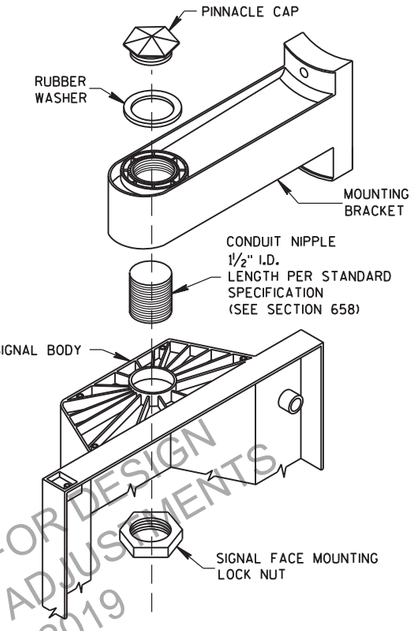
LENGTH AND LOCATION OF TRAFFIC SIGNAL STANDARDS SHALL BE AS SHOWN ON THE PLANS.

OPTICALLY PROGRAMMED SIGNAL FACES SHALL BE MASKED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS, AND UNDER THE DIRECTIONS OF THE REGION TRAFFIC ENGINEER.

FOLDING STOP SIGNS SHALL BE IN ACCORDANCE WITH THE MUTCD AND/OR THE LATEST WISCONSIN SUPPLEMENT. THE SIGNS SHALL BE SIZED AND LOCATED AS CALLED FOR IN IN THE PLANS.

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



SIGNAL FACE MOUNTING DETAIL
(BANDED)

APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.

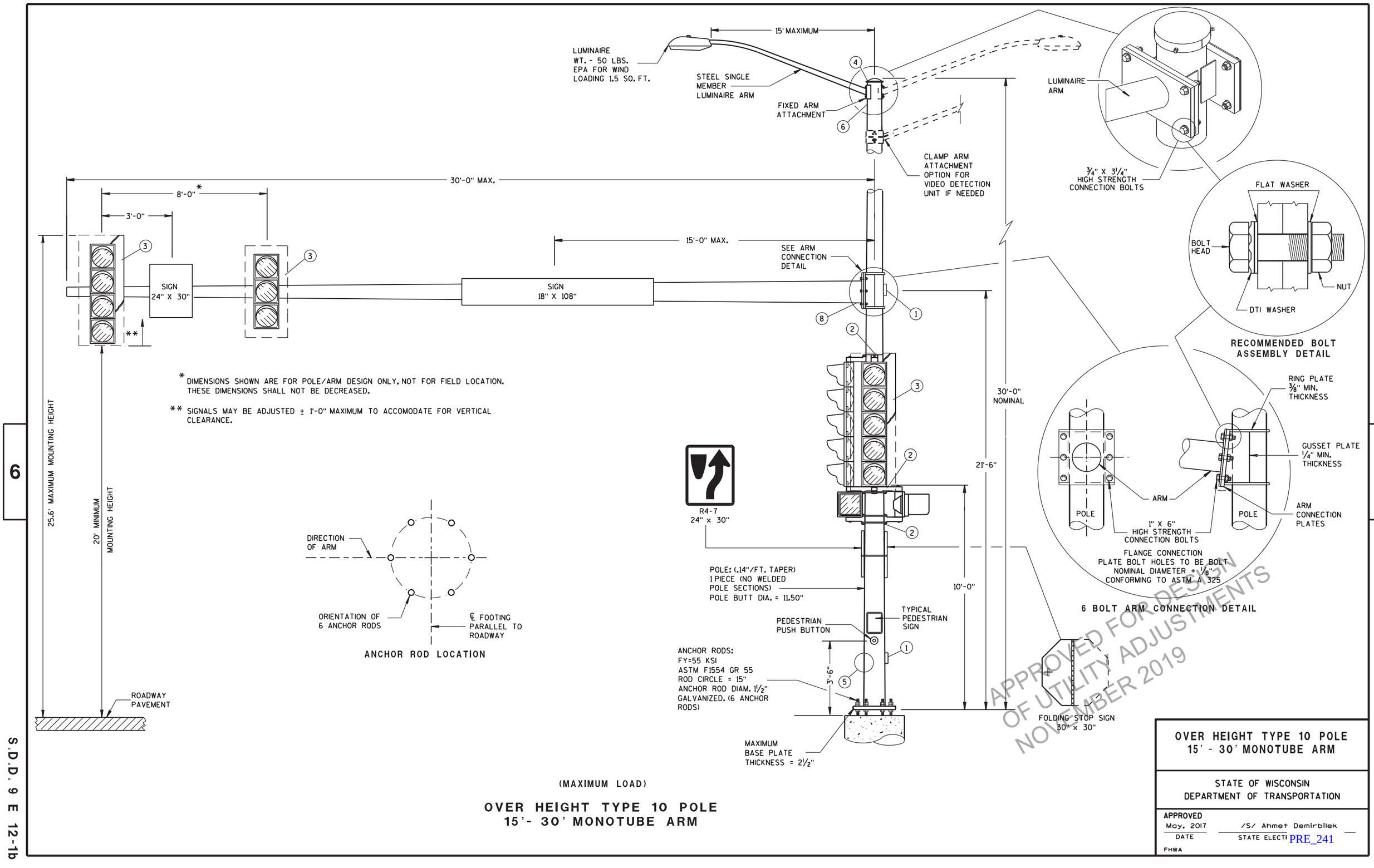
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
2/28/2013
DATE
/S/ Ahmet Demirbilek
STATE ELECTR

FHWA

PRE_240

SDD 9e12-b Over Height Type 10 Pole 15' - 30' Monotube Arm



* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY, NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

** SIGNALS MAY BE ADJUSTED ± 1'-0" MAXIMUM TO ACCOMODATE FOR VERTICAL CLEARANCE.

(MAXIMUM LOAD)

OVER HEIGHT TYPE 10 POLE
15'- 30' MONOTUBE ARM

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

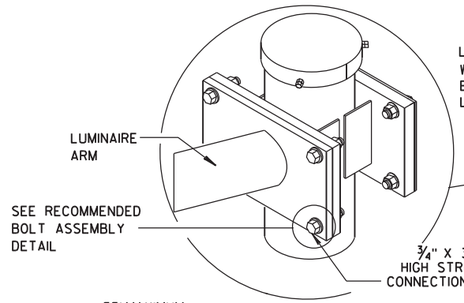
OVER HEIGHT TYPE 10 POLE
15' - 30' MONOTUBE ARM

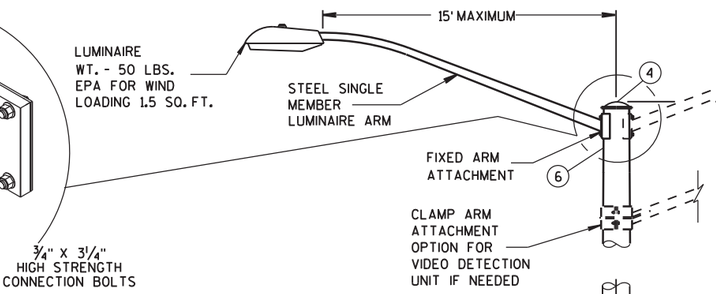
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

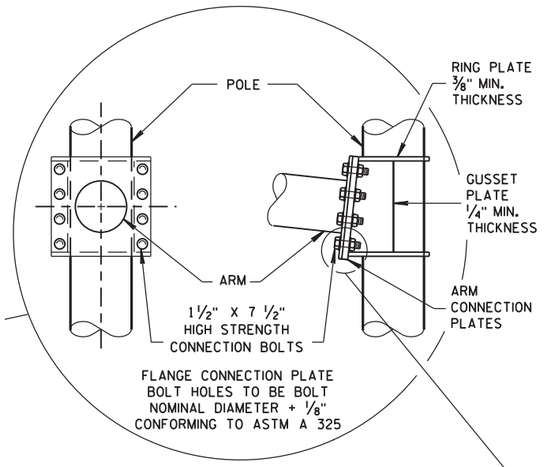
APPROVED
May. 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTR
FHWA

6
S.D.D. 9 E 12-1b

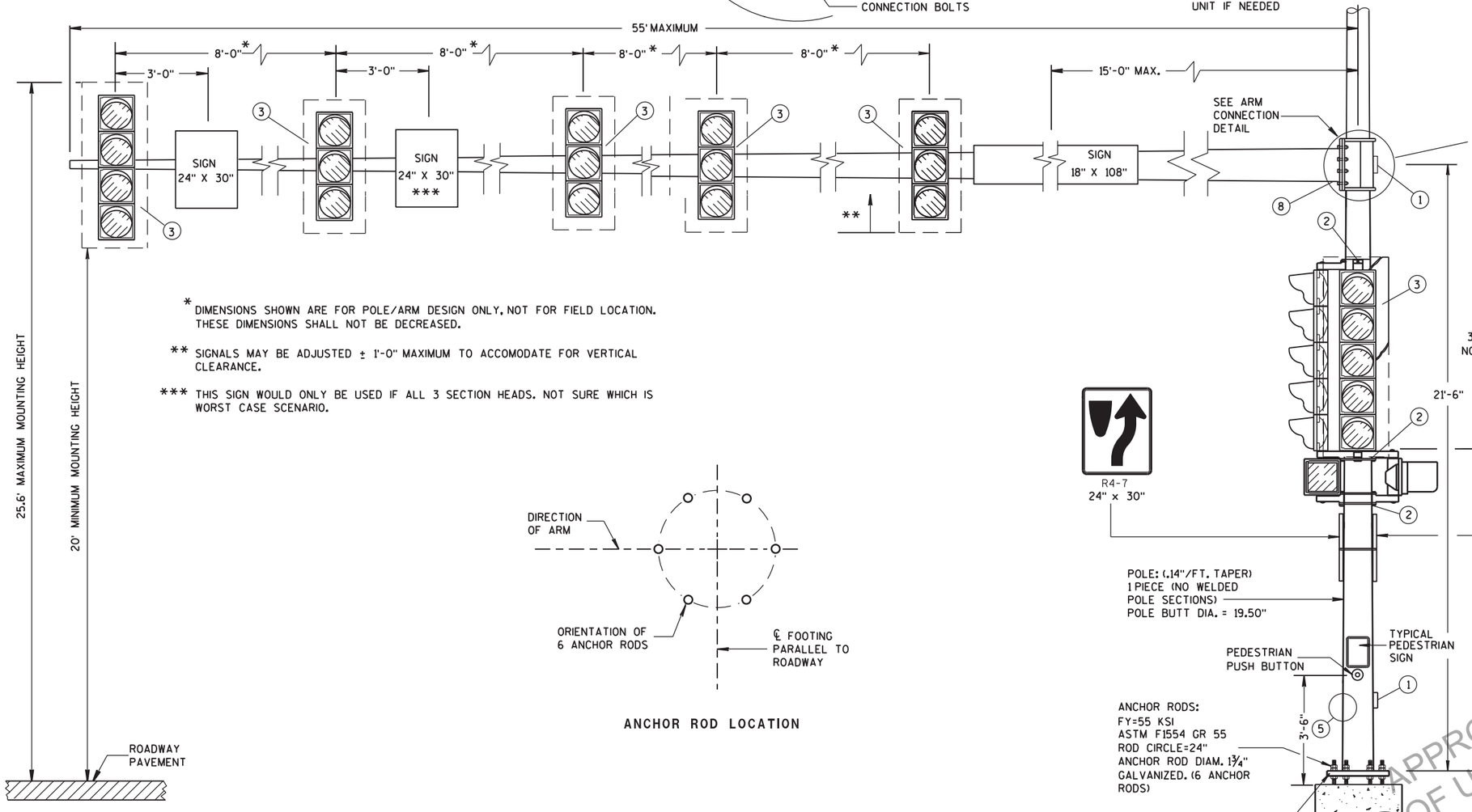
SDD 9e12-d Over Height Type 13 Pole 35' - 55' Monotube Arm







8 BOLT ARM CONNECTION DETAIL

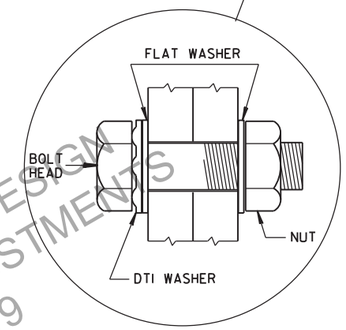


* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY. NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

** SIGNALS MAY BE ADJUSTED ± 1'-0" MAXIMUM TO ACCOMODATE FOR VERTICAL CLEARANCE.

*** THIS SIGN WOULD ONLY BE USED IF ALL 3 SECTION HEADS. NOT SURE WHICH IS WORST CASE SCENARIO.

ANCHOR ROD LOCATION



RECOMMENDED BOLT ASSEMBLY DETAIL

(MAXIMUM LOAD)

OVER HEIGHT TYPE 13 POLE
35'- 55' MONOTUBE ARM

APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

OVER HEIGHT TYPE 13 POLE
35' - 55' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May, 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTI
FHWA

6
S.D.D. 9 E 12-1d

SDD 9e12-e General Notes and Hardware Details for Over Height Type 9, 10, 12 and 13 Poles with Monotube Arms

GENERAL NOTES

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

OVER HEIGHT POLE TYPES 9 AND 10 ARE FOR ARM LENGTHS 15-FOOT TO 30-FOOT.

OVER HEIGHT POLE TYPES 12 AND 13 ARE FOR ARM LENGTHS 35-FOOT TO 55-FOOT.

MONOTUBE POLE AND ARM SHALL BE GALVANIZED STEEL.

RING-STIFFENED BUILT-UP BOX TYPE OF ATTACHMENT FOR TRAFFIC SIGNAL ARM.

ONE (1) PIECE POLE CONSTRUCTION (NO WELDED POLE SECTIONS).

STANDARD STRAIGHT ARM DESIGN (3 % ± RISE).

SECTION 657, POLES OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

PROVIDE WIREWAY THRU POLE WALL AND ARM CONNECTION PLATES. PROVIDE ROUND, SMOOTH INSIDE SURFACE.

MANUFACTURER'S SUBMITTED POLE DESIGNS AND DRAWINGS SHALL BE SIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER AND CERTIFIED AS BEING IN COMPLIANCE WITH THE AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNAL 2015 1ST EDITION (INCLUDING 2017 INTERIM REVISIONS) AND ALL PERTINENT WISDOT SPECIFICATIONS AND DRAWINGS FOR TRAFFIC AND LIGHTING STRUCTURES AND AS FOLLOWS:

- CATEGORY III FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 9 AND TYPE 10 STRUCTURES.
- CATEGORY II FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 12 AND TYPE 13 STRUCTURES.
- 90 MPH (3-SECOND GUST) WIND SPEED AND A 50 YEAR DESIGN LIFE.

SECURE THE OPENING BELOW THE BASE PLATE WITH STAINLESS STEEL OR GALVANIZED STEEL MESH AND SECURE THE MESH WITH ¾" S.S. BANDING AROUND THE LEVELING NUTS.

INDENT PRINT (NOMINAL ½" HIGH) THE POLE LENGTH AND FIRST TWO LETTERS OF THE MANUFACTURERS NAME ON TWO SIDES OF THE BASE PLATE 180 DEGREES APART, BEFORE GALVANIZING. THE ARM SHALL BE IDENTIFIED WITH THE SAME INFORMATION BY INDENT PRINT.

SIGNAL FACE SHALL BE MOUNTED 6 INCHES (NOMINAL) FROM THE END OF THE MONOTUBE ARM OR AS SHOWN ON THE PLAN CONSTRUCTION DETAIL OR AS DIRECTED BY THE PROJECT ENGINEER/ELECTRICAL OPERATIONS PERSONNEL. MOUNT ALL LIKE HEADS AT SAME ELEVATION.

SIGN MOUNTING BRACKETS SHALL BE FURNISHED IN ACCORDANCE WITH SECTION 637 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.

(1) DESIGN FOR MAXIMUM ALLOWABLE HANDHOLE WITH COVER ASSEMBLY WITH TWO ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLTS.

(2) SIGNAL MOUNTING BRACKETS FOR POLE MOUNTING, MOUNT WITH CAP SCREW AND BANDING, (SEE SPECIFICATIONS SEC. 658).

(3) SECURELY MOUNT BACKPLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURERS RECOMMENDATIONS.

(4) THE TOP OF THE POLE SHAFT AND THE END OF THE MONOTUBE ARM SHALL BE EQUIPPED WITH A REMOVABLE, VENTILATED CAP HELD SECURELY IN PLACE WITH SET SCREWS.

(5) FACTORY-WELDED BRACKET FOR GROUNDING LUG, OPPOSITE HANDHOLE, (LUG AND HARDWARE PAID UNDER SEPARATE ITEM). PROVIDE HOLE IN BRACKET FOR ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLT.

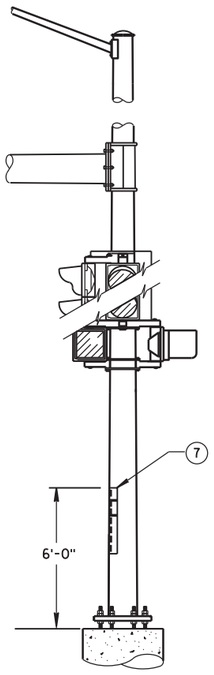
(6) FACTORY-WELDED "J" HOOK FOR STRAIN RELIEF FOR POLE LUMINAIRE WIRE.

(7) INSTALL STRUCTURAL IDENTIFICATION PLAQUES.

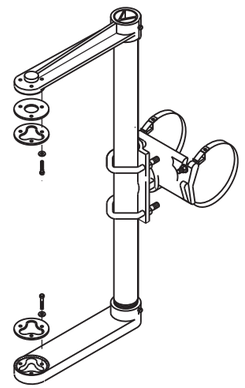
STRUCTURAL IDENTIFICATION PLAQUES SHALL BE PLACED ON THE POLES IN THE SAME DIRECTION AS THE ARM.

MOUNTING HEIGHT SHALL BE 6'-0" ABOVE THE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL BE OBSTRUCTED.

(8) FACTORY DRILLED ½" DRAIN HOLE 2" FROM FLANGE CONNECTION PLATE.

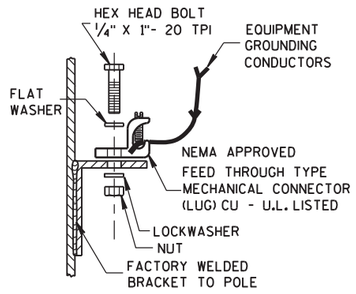


STRUCTURAL IDENTIFICATION PLAQUE PLACEMENT



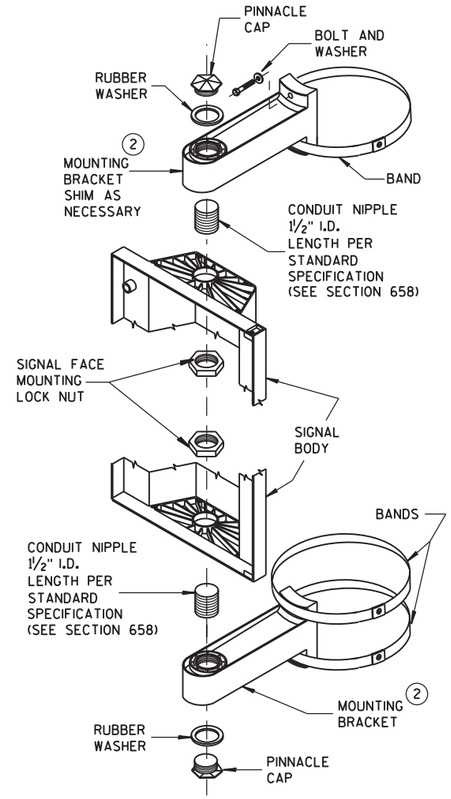
SIGNAL FACE MOUNTING BRACKET DETAIL FOR MONOTUBE ARM

(MOUNT PER MANUFACTURER'S RECOMMENDATION)

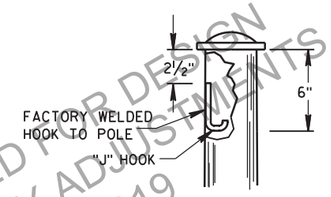


TYPICAL GROUNDING CONNECTIONS (5)

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



SIGNAL FACE VERTICAL MOUNTING DETAIL



"J" HOOK WIRE SUPPORT (6)

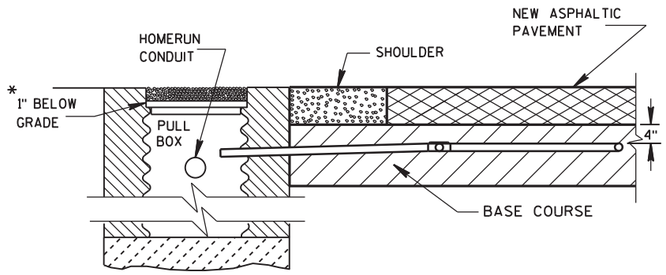
APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

GENERAL NOTES AND HARDWARE DETAILS FOR OVER HEIGHT TYPE 9, 10, 12 & 13 POLES WITH MONOTUBE ARMS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
May 2017 DATE	/S/ Ahmet Demirbilek STATE ELECTRI
FHWA	PRE_243

6

S.D.D. 9 E 12-1e

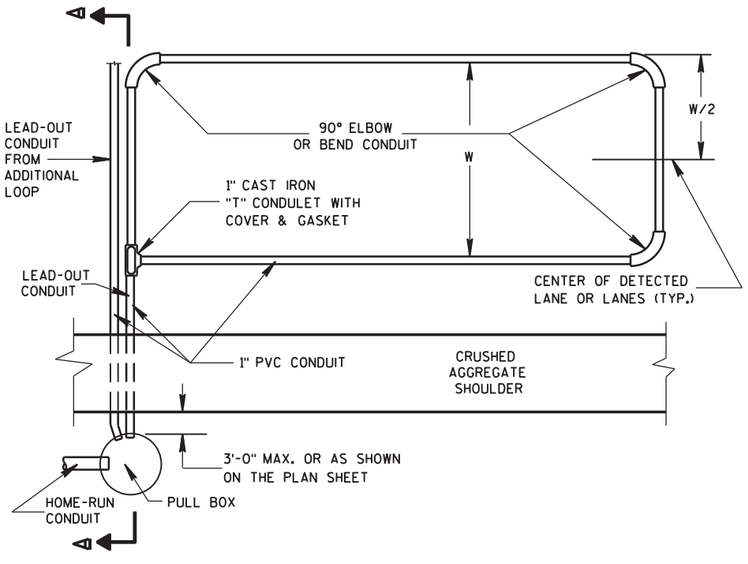
SDD 9f8 Loop Detector Placed in Crushed Aggregate Base (New Asphaltic Pavement)



SECTION A-A
NO CURB & GUTTER

DETECTOR LOOP INSTALLATION DETAIL

*RECESS PULL BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.



TYPICAL PLAN OF LOOP DETECTOR

GENERAL NOTES

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

LOOP SIZE, LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD-OUT CONDUIT TO DRAIN TO ROADSIDE PULL BOX.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

THE #12 AWG LOOP WIRE FROM THE LOOP TO THE ROADSIDE PULL BOX, SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE INSTALLATION.

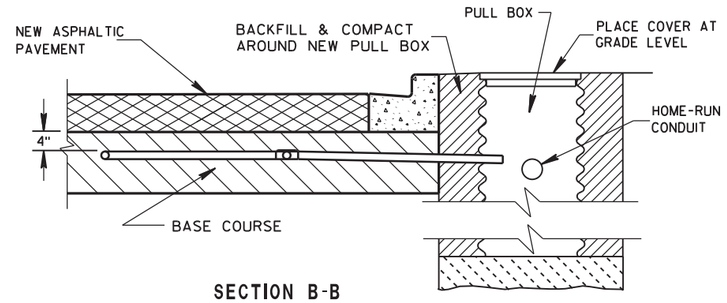
SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL BOXES AT THE SIDE OF THE ROAD.

THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL BOX, THROUGH THE LOOP DUCT, BACK TO THE ROADSIDE PULL BOX, AND BE INSTALLED IN ONE, NON-SPLICED, CONTINUOUS LENGTH.

PROTECTION OF THE CONDUIT AND CONDULET SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE THE ASPHALTIC PAVEMENT IS PLACED.

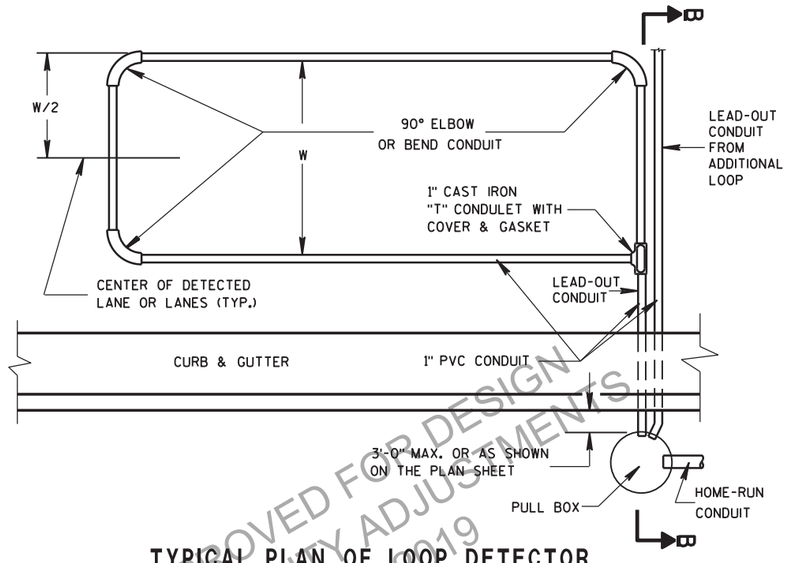
WHEN MULTIPLE LAYERS OF ASPHALTIC PAVEMENT ARE TO BE PLACED, LOOPS MAY BE INSTALLED BY SAWING A TWO INCH WIDE SLOT IN THE FIRST LAYER, DIG OUT THE ASPHALTIC MATERIAL AND BASE COURSE, PLACE THE LOOP, FILL THE SLOT WITH BASE COURSE MATERIAL AND NEW ASPHALTIC MATERIAL AND TAMP THE ASPHALTIC MATERIAL IN PLACE.

SHOULD TRAFFIC BE ALLOWED TO USE THE AREA OF ROADWAY WITH THE NEWLY INSTALLED LOOP BEFORE THE PLACEMENT OF THE NEXT LAYER OF ASPHALTIC PAVEMENT, THE SLOT/PAVEMENT OPENING SHALL BE SEALED WITH HOT POURED ELASTIC TYPE MATERIAL CONFORMING TO THE REQUIREMENTS OF THE "SPECIFICATION FOR JOINT SEALANTS, HOT POURED, FOR CONCRETE AND ASPHALT PAVEMENTS, ASTM DESIGNATION: D3405".



SECTION B-B
CURB & GUTTER

LOOP DETECTOR INSTALLATION DETAIL

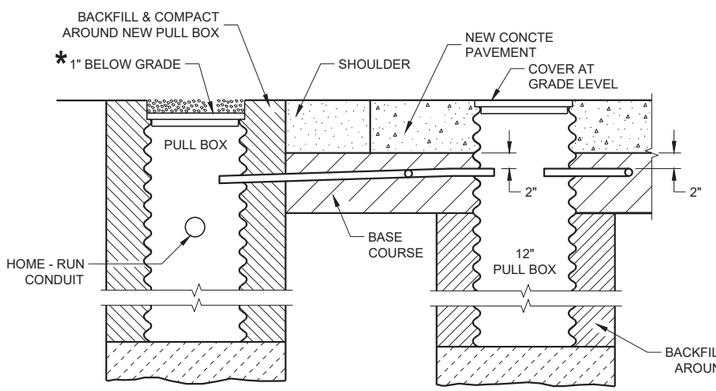


TYPICAL PLAN OF LOOP DETECTOR

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

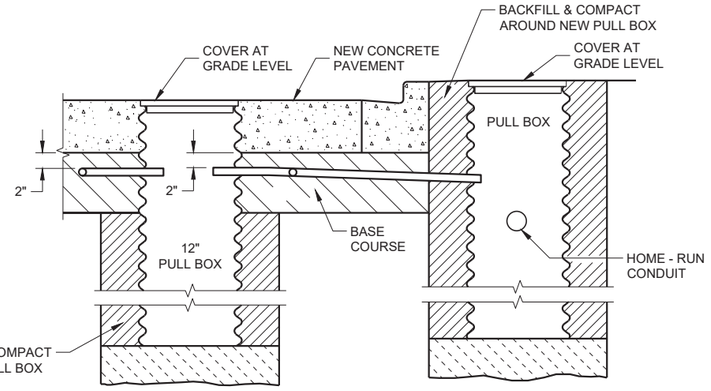
LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW ASPHALTIC PAVEMENT)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
Sept. 2014 DATE	/S/ Ahmet Demirbilek STATE ELECTI
FHWA	PRE_244

SDD 09F09 Loop Detector Placed in Crushed Aggregate Base (New Concrete Pavement)



SECTION A - A
NO CURB AND GUTTER

LOOP DETECTOR INSTALLATION DETAIL



SECTION B - B
CURB AND GUTTER

LOOP DETECTOR INSTALLATION DETAIL

* RECESS PULL BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.

GENERAL NOTES

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

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL BOX.

LOOP SIZE, LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READING TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

ANY PVC LEADOUT CONDUIT CONTAINING MORE THAN ONE TWISTED PAIR OF LOOP LEAD WIRE SHALL BE 2".

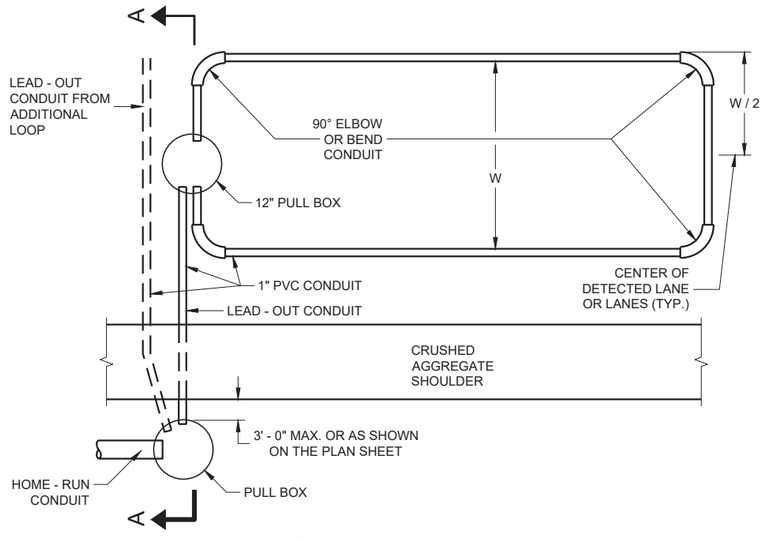
THE #12 AWG LOOP WIRE FROM THE LOOP TO THE ROADSIDE PULL BOX, SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE INSTALLATION.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL BOXES AT THE SIDE OF THE ROAD.

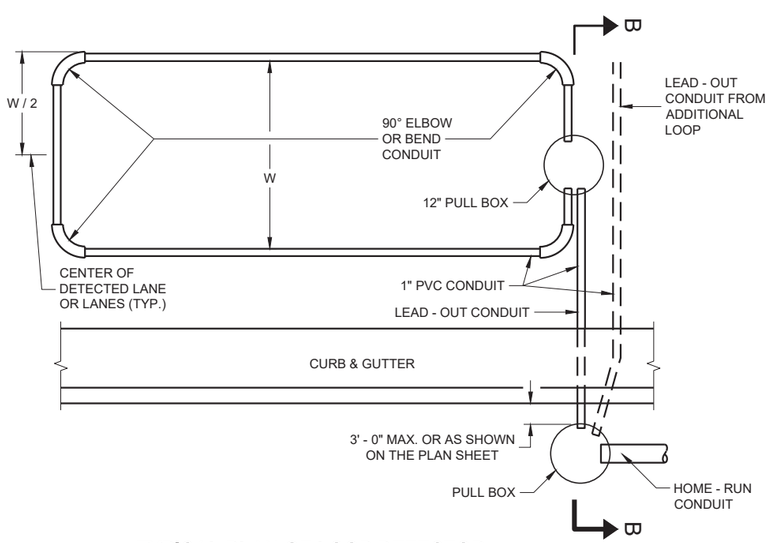
THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL BOX, INTO THE PULL BOX IN THE PAVEMENT, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL BOX, AND BE INSTALLED IN ONE NON-SPLICED CONTINUOUS LENGTH.

PROTECTION OF THE CONDUIT, CONDULET, PULL BOX SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW CONCRETE PAVEMENT IS POURED.

12" PULL BOXES IN PAVEMENT SHALL BE CORRUGATED STEEL ONLY.



TYPICAL PLAN OF LOOP DETECTOR WITH 12" PULLBOX



TYPICAL PLAN OF LOOP DETECTOR WITH 12" PULLBOX

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL PRE_245

FHWA

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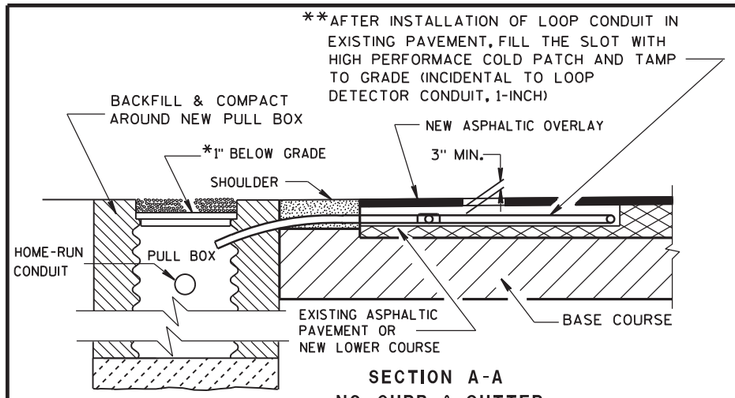
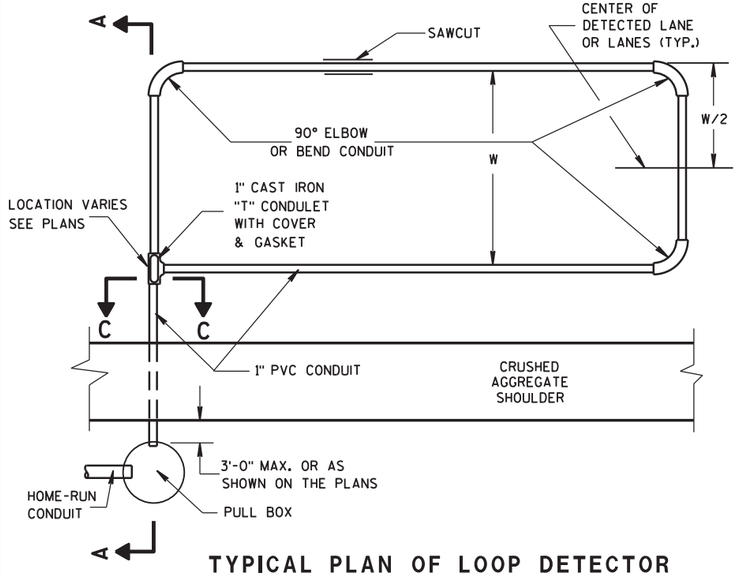
SDD 09F09 - 05

SDD 9f10 Loop Detector Installed in Existing or New Asphaltic Pavement with New Asphaltic Overlay

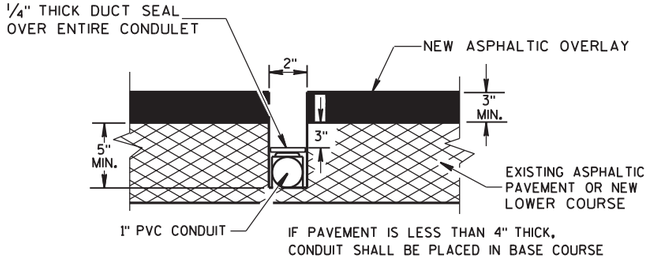


SECTION A-A
NO CURB & GUTTER
LOOP DETECTOR INSTALLATION DETAIL

*RECESS PULL BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.



TYPICAL PLAN OF LOOP DETECTOR



SIDE VIEW
SECTION C-C
LOOP DETECTOR SLOT DETAIL

GENERAL NOTES

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

LOOP SIZE, LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL BOX.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

BEFORE PLACING THE 1 INCH CONDUIT IN THE CLEANED OUT SLOT, PLACE SOME OF THE TAR OR EPOXY SEALANT IN THE SLOT TO A DEPTH OF APPROXIMATELY ½ INCH. IF THE CONDUIT MUST BE PLACED IN THE BASE COURSE, DO NOT PLACE THE TAR OR EPOXY SEALANT IN THE SLOT.

ONCE THE 2" LOOP SLOT HAS BEEN CHIPPED OUT, THE LOOP INSTALLATION SHALL BE COMPLETED PRIOR TO OPENING THE LANE(S) TO TRAFFIC.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

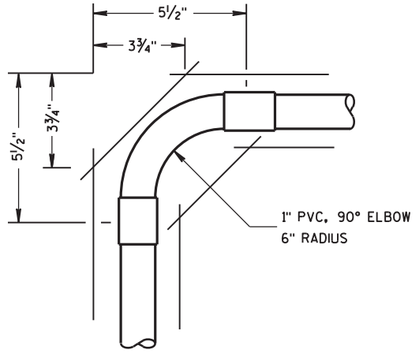
THE #12 AWG LOOP WIRE FROM THE LOOP TO THE ROADSIDE PULL BOX, SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE INSTALLATION.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL BOXES AT THE SIDE OF THE ROAD.

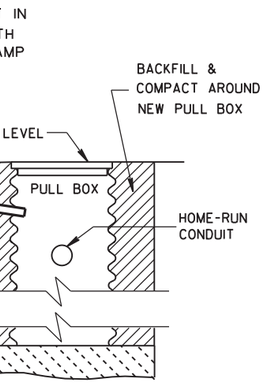
THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL BOX, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL BOX, AND BE INSTALLED IN ONE, NON-SPLICED, CONTINUOUS LENGTH.

** AFTER THE HIGH PERFORMANCE COLD PATCH HAS BEEN TAMPED, SEAL THE SLOT/HIGH PERFORMANCE COLD PATCH/ PAVEMENT OPENING WITH HOT POURED ELASTIC TYPE MATERIAL CONFORMING TO THE REQUIREMENTS OF THE "SPECIFICATION FOR JOINT SEALANTS, HOT POURED, FOR CONCRETE AND ASPHALT PAVEMENTS, ASTM DESIGNATION: D3405".

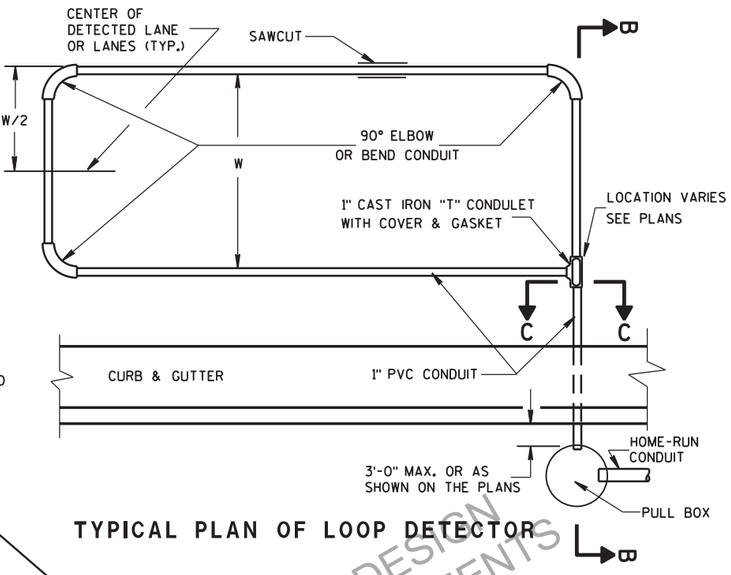
IN THE EVENT HIGH PERFORMANCE COLD PATCH IS NOT AVAILABLE, AND FLEXIBLE TYPE EPOXY IS USED AS A LOOP SLOT FILLER, THE 2 INCH SLOT SHALL BE TOTALLY CLEAN AND DRY BEFORE ITS INSTALLATION. EPOXY USE SHALL BE APPROVED BY THE DISTRICT TRAFFIC ENGINEER AND THE FURNISHED EPOXY SHALL BE INSTALLED AFTER WRITTEN APPROVAL BY THE PROJECT ENGINEER.



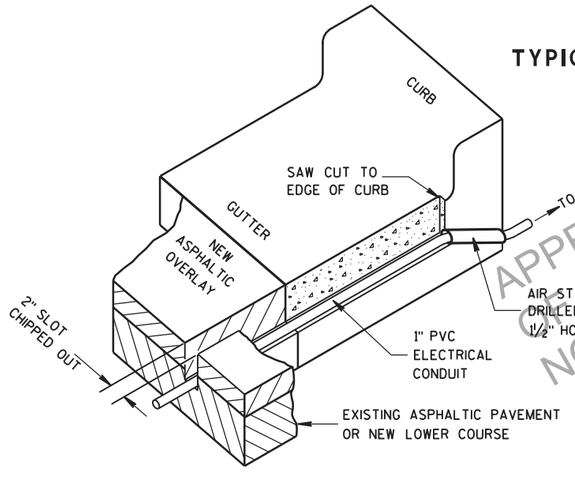
TOP VIEW
CORNER SAW SLOT DETAIL



SECTION B-B
CURB & GUTTER
LOOP DETECTOR INSTALLATION DETAIL



TYPICAL PLAN OF LOOP DETECTOR



ISOMETRIC VIEW
TYPICAL SAW CUT DETAIL FOR LEAD-IN CONDUIT

APPROVED FOR DESIGN
UTILITY ADJUSTMENTS
NOVEMBER 2019

LOOP DETECTOR INSTALLED IN EXISTING OR NEW ASPHALTIC PAVEMENT WITH NEW ASPHALTIC OVERLAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — /S/ Ahmet Demirbilek
DATE — STATE ELECTRICAL ENGINEER
FHWA

PRE_246

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S.D.D. 9 F 10-4

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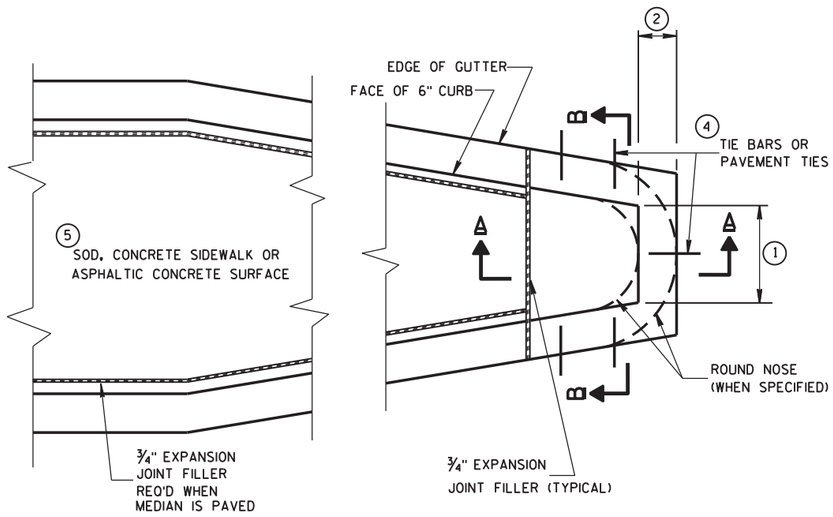
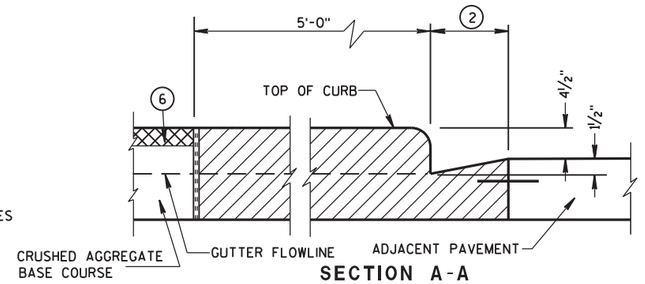
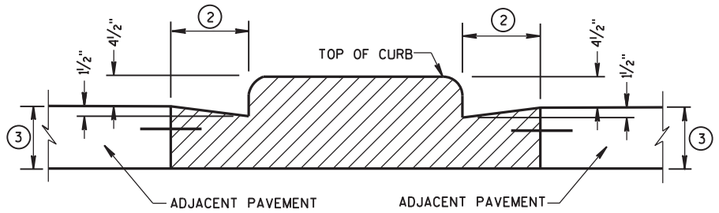
S.D.D. 9 F 10-4

SDD 11b2 Concrete Median Nose





SECTION A-A



SECTION B-B

CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

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

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

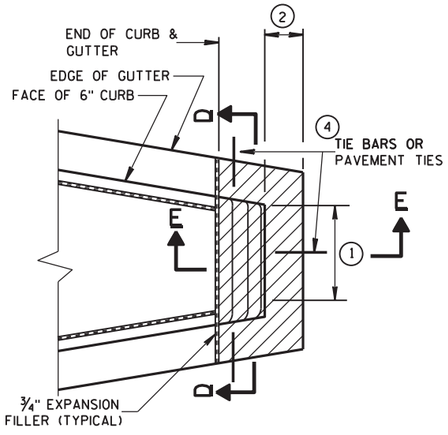
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

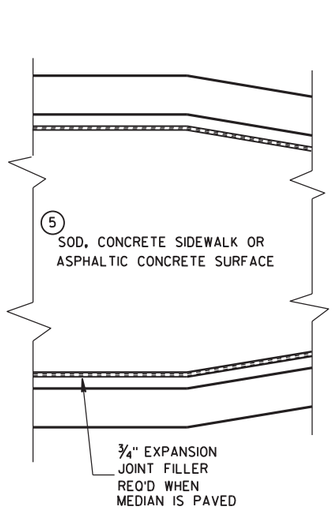
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

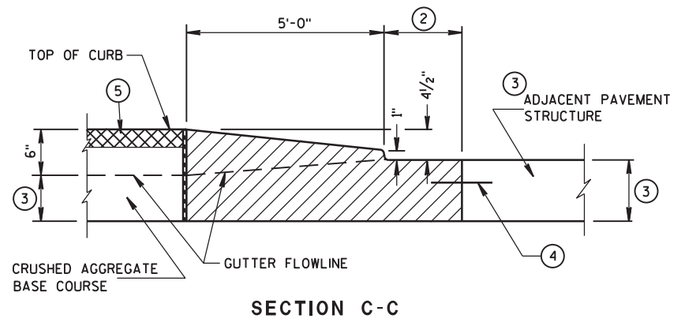
PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

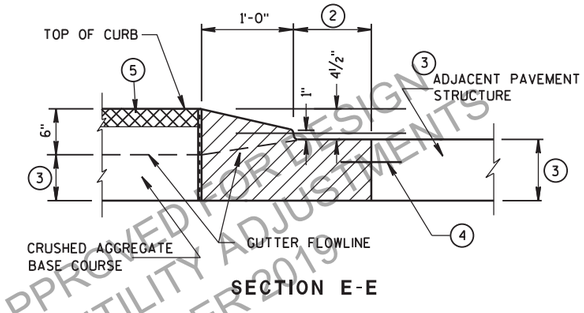




CONCRETE MEDIAN SLOPED NOSE TYPE 1

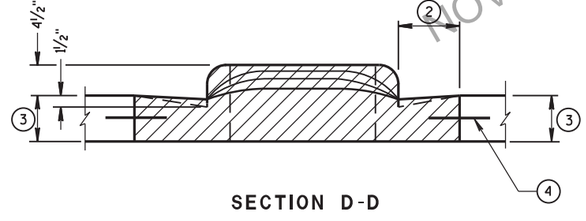


SECTION C-C



SECTION E-E

CONCRETE MEDIAN SLOPED NOSE TYPE 2



SECTION D-D

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6-8-2006 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER

FHWA

PRE_247

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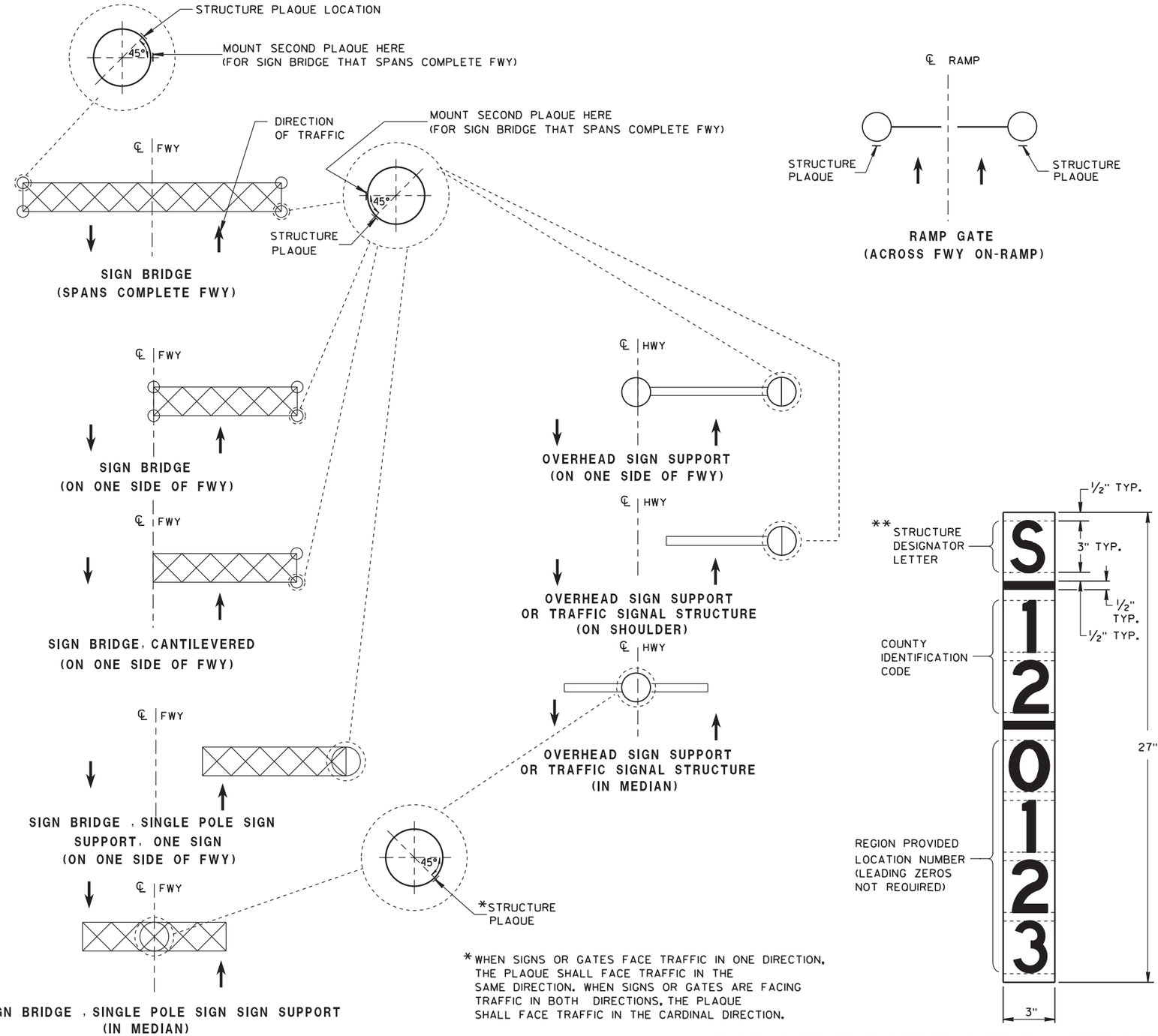
S.D.D. 11 B 2-2



LOCATION OF RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT & TRAFFIC SIGNAL STRUCTURE PLAQUES

*WHEN SIGNS OR GATES FACE TRAFFIC IN ONE DIRECTION, THE PLAQUE SHALL FACE TRAFFIC IN THE SAME DIRECTION. WHEN SIGNS OR GATES ARE FACING TRAFFIC IN BOTH DIRECTIONS, THE PLAQUE SHALL FACE TRAFFIC IN THE CARDINAL DIRECTION.

RAMP GATE
(ACROSS FWY ON-RAMP)

**LETTER "G" UTILIZED FOR RAMP GATES. LETTER "S" UTILIZED FOR SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, AND TRAFFIC SIGNALS.

RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT AND TRAFFIC SIGNAL STRUCTURE PLAQUE FOR SIGN BRIDGES AND OVERHEAD SIGN SUPPORT WHICH ARE NOT STRUCTURE MOUNTED

GENERAL NOTES

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

PLAQUES SHALL BE INCIDENTAL TO ALL NEW INSTALLATIONS.

IF THE PROPOSED SIGN BRIDGE OR OVERHEAD SIGN SUPPORT IS REPLACING AN EXISTING SIGN BRIDGE OR OVERHEAD SIGN SUPPORT, A NEW IDENTIFICATION PLAQUE WILL BE REQUIRED.

FASTEN TOP, CENTER AND BOTTOM OF PLAQUE TO POLE OR OTHER LOCATION AS FOLLOWS:

GALVANIZED STEEL SHAFT - 3 STAINLESS STEEL POP RIVETS

A588 STEEL SHAFT - SHIM FOR DRAINAGE WITH STAINLESS WASHERS; FASTEN WITH STAINLESS SELF-TAPPING SCREWS

ALUMINUM SHAFTS - 3 ALUMINUM POP RIVETS

MOUNTING HEIGHT SHALL BE APPROXIMATELY 5.0' ABOVE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL OBSTRUCT.

PLAQUE MATERIALS:

BASE - SHEET ALUMINUM, 0.060" THICK.

FACE - WHITE, SELF-ADHESIVE VINYL SHEETING, NON-RETROREFLECTIVE

LINES - BLACK, ½" WIDE, SELF-ADHESIVE

CHARACTERS:- BLACK, SELF ADHESIVE, SERIES "D", SIZE AS SHOWN.

FOR SIGN BRIDGES, STRUCTURE MOUNTED, THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY AS SHOWN ON THE DRAWING. THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY TO THE BACK OF THE SIGN, BETWEEN THE ALUMINUM EXTRUSIONS, NEAR THE TOP LEFT HAND CORNER OF THE SIGN. THE BASE MATERIAL SHALL BE OMITTED AND THE FACE ADHERED DIRECTLY TO THE ALUMINUM SURFACE. PRIOR TO ADHERING THE MATERIAL, THE ALUMINUM SURFACE SHALL BE SMOOTH, CLEAN AND DRY.

WHERE SIGN BRIDGE ILLUMINATION IS PROVIDED, THE STRUCTURE MUST ALSO HAVE A SIGN BRIDGE CIRCUIT PLAQUE AS SHOWN IN THE ELECTRICAL DETAILS.

IDENTIFICATION PLAQUE FOR SIGN BRIDGE, STRUCTURE MOUNTED

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, & TRAFFIC SIGNALS

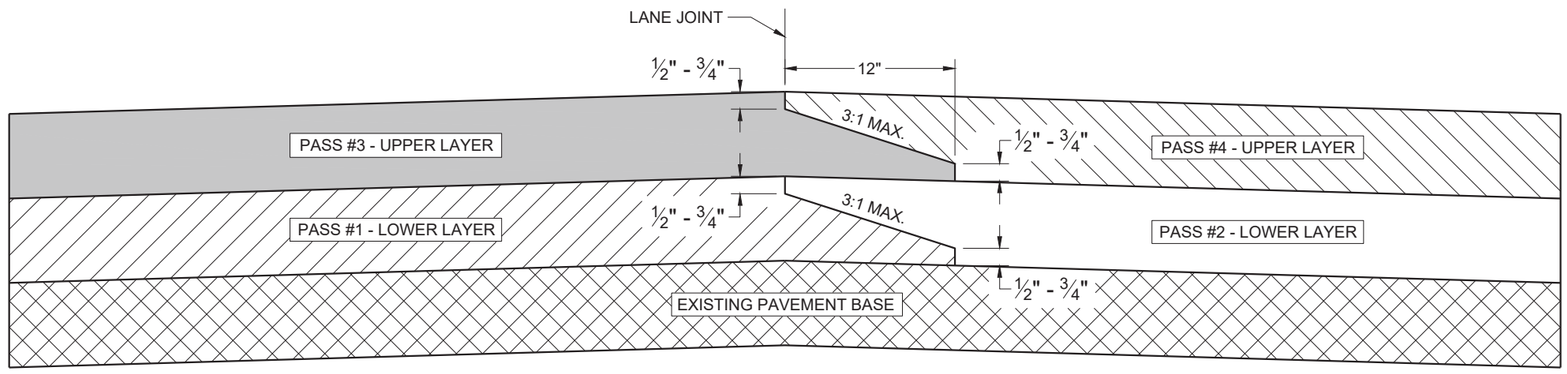
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12/4/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
PRE_248
FHWA

SDD 13C19 HMA Longitudinal Joints

GENERAL NOTES

CONFORM TO STANDARD SPECIFICATION 450.3.2.8



TYPICAL PAVEMENT CROSS SECTION
OF NOTCHED WEDGE LONGITUDINAL JOINTS

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE

/S/ Steven Hefel
HMA PAVEMENT I PRE_249

FHWA

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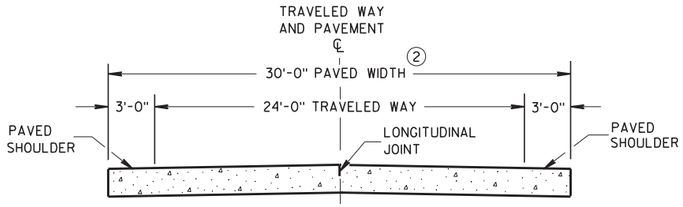
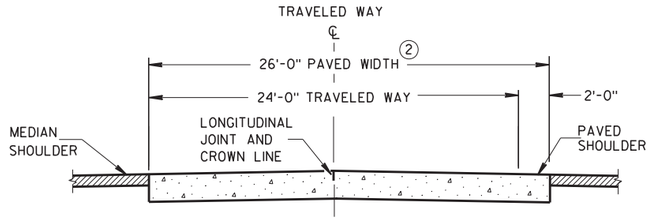
SDD 13C19 - 01

SDD 13C19 - 01

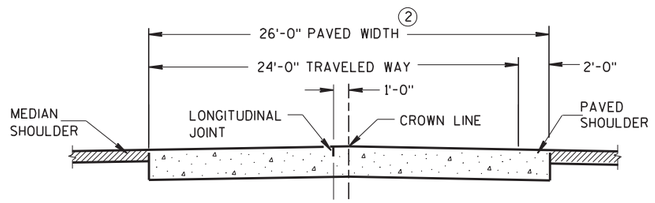
SDD 13c11-a Rural Doweled Concrete Pavement



SECTION A-A
TWO-LANE TWO-WAY HIGHWAY ①



SECTION B-B



ALTERNATIVE SECTION B-B
①
DIVIDED HIGHWAY

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES AND A MAXIMUM OF 18 INCHES FROM THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

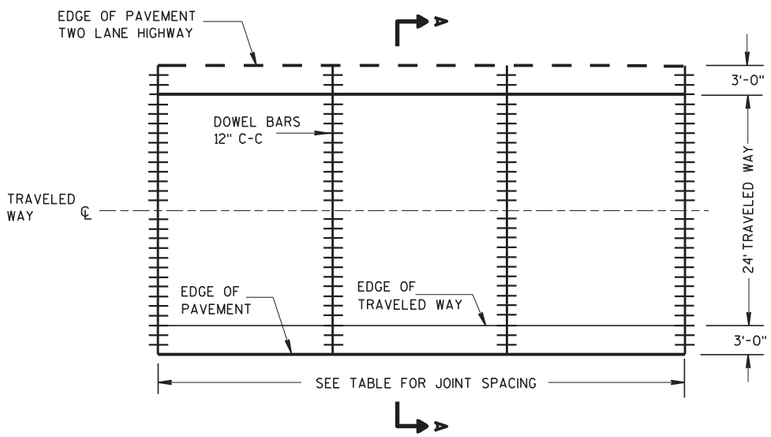
LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.

① REFER TO TYPICAL CROSS SECTIONS FOR ADDITIONAL DETAILS.

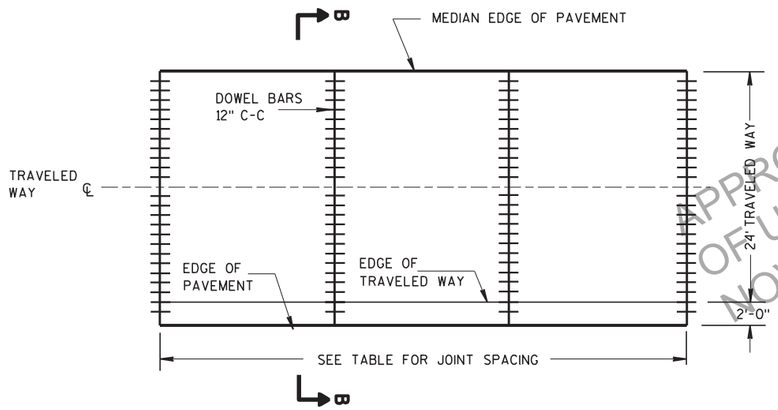
② MEASURE THE ENTIRE PAVED WIDTH INCLUDING THE PORTION(S) LABELED PAVED SHOULDER AS CONCRETE PAVEMENT.

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 ¼"	15'
9", 9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'



CONTRACTION JOINT LAYOUT
FOR TWO-LANE TWO-WAY HIGHWAY



CONTRACTION JOINT LAYOUT
FOR DIVIDED HIGHWAY

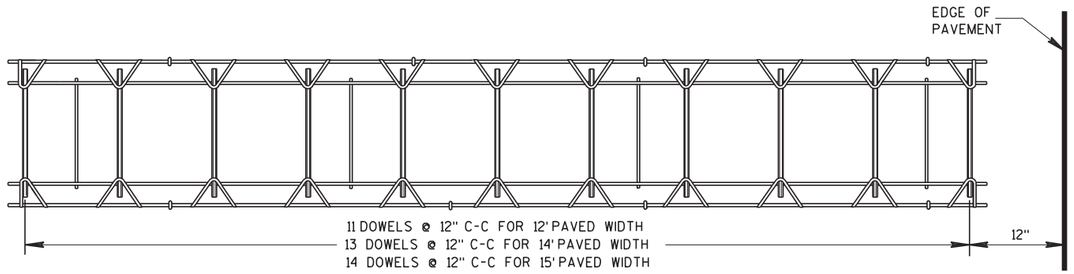
APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

RURAL DOWELED
CONCRETE PAVEMENT

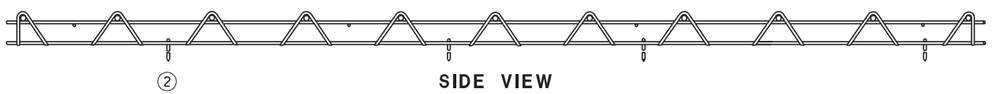
STATE OF WISC
DEPARTMENT OF TRANSPORTATION

PRE_250

SDD 13c11-b Rural Doweled Concrete Pavement



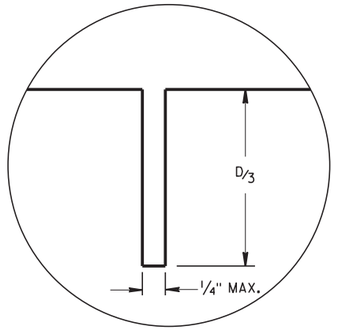
PLAN VIEW



SIDE VIEW

(NORMAL TO CENTERLINE)

CONTRACTION JOINT DOWEL ASSEMBLY ①



JOINT DETAIL

GENERAL NOTES

① OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTING CONTRACTION JOINTS.

② SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.

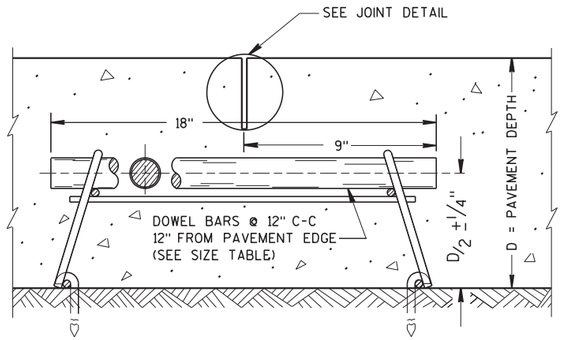
③ FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A 1/4-INCH RADIUS AT FORMED JOINTS.

④ PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.

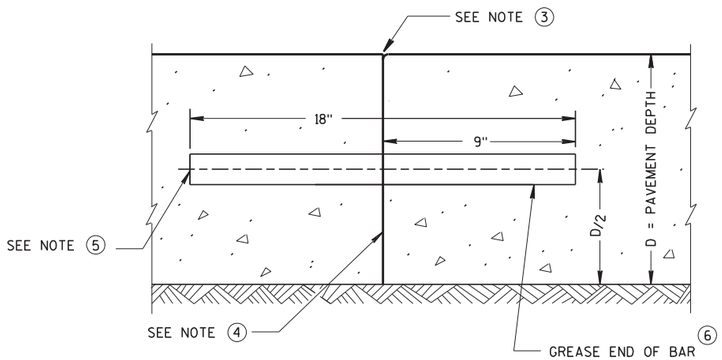
⑤ INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C-C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO *DRILLED DOWEL BAR CONSTRUCTION JOINT* DETAIL.

⑥ APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

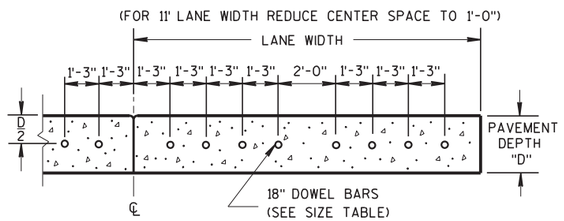
⑦ ANCHOR DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS 1/8-INCH GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.



DOWELED CONTRACTION JOINT



TRANSVERSE CONSTRUCTION JOINT



DRILLED DOWEL BAR CONSTRUCTION JOINT ⑦

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

RURAL DOWELED
CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018
DATE

/S/ Peter Kemp P.E.
PAVEMENT PRE_251

FHWA

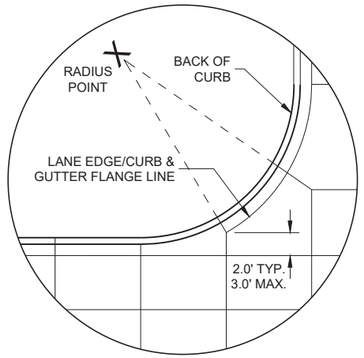
6

S.D.D. 13 C 11-12b

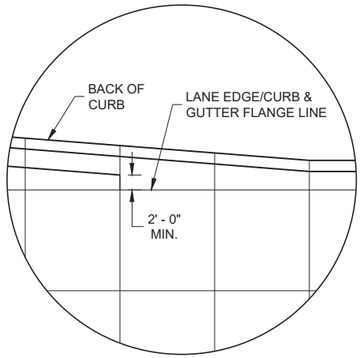
6

S.D.D. 13 C 11-12b

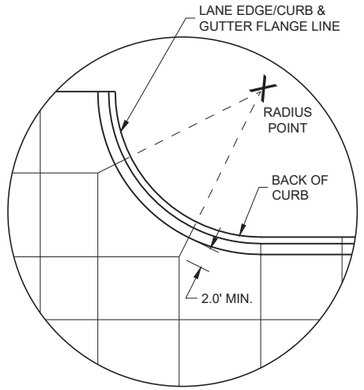
SDD 13C18-a Concrete Pavement Jointing



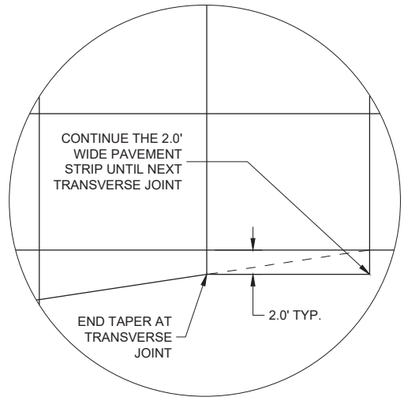
DETAIL "A"



DETAIL "B"



DETAIL "C"



DETAIL "D"

GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

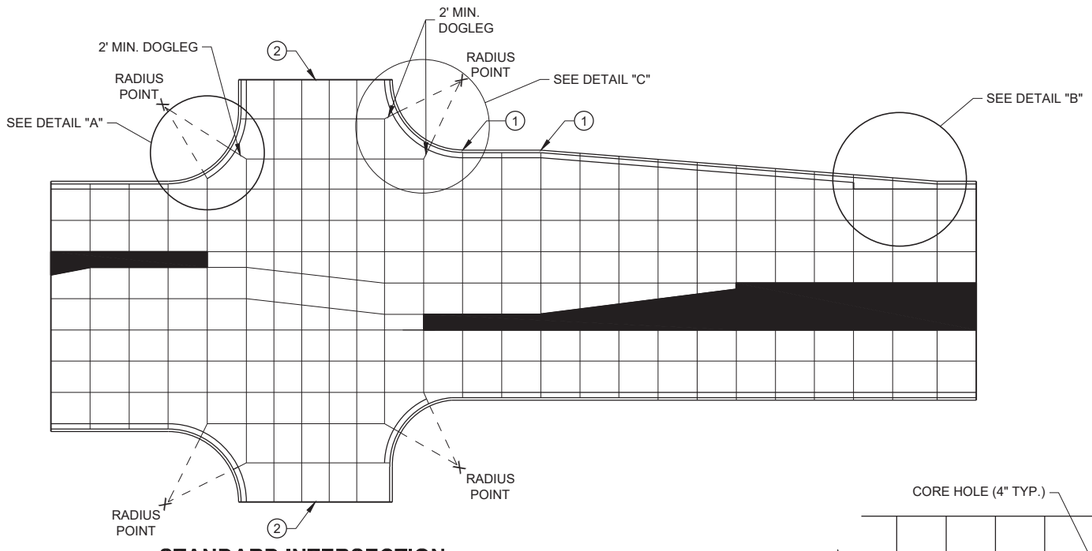
AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

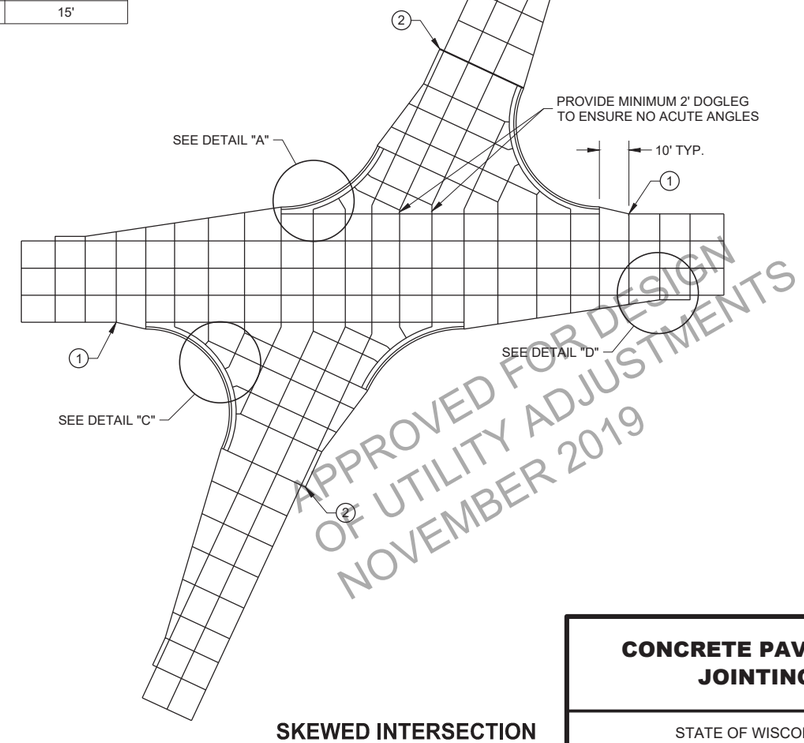
1. PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.
2. CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH EDGE OF RADIUS.
3. THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



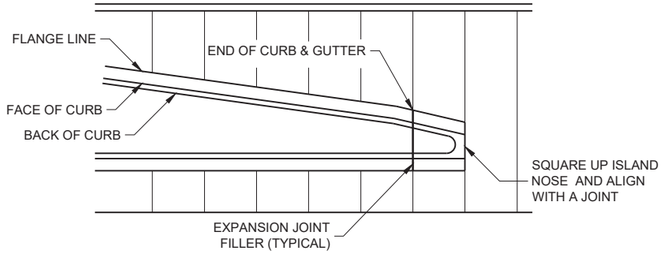
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

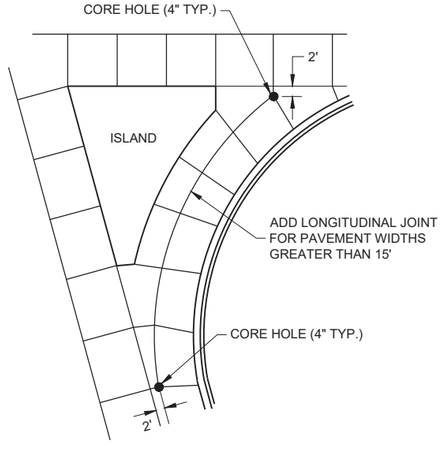
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6 ½"	12'
7", 7 ½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



APPROACH TO MEDIAN



LARGE RIGHT TURN

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO PRE_252

6
SDD 13C18 - 07a

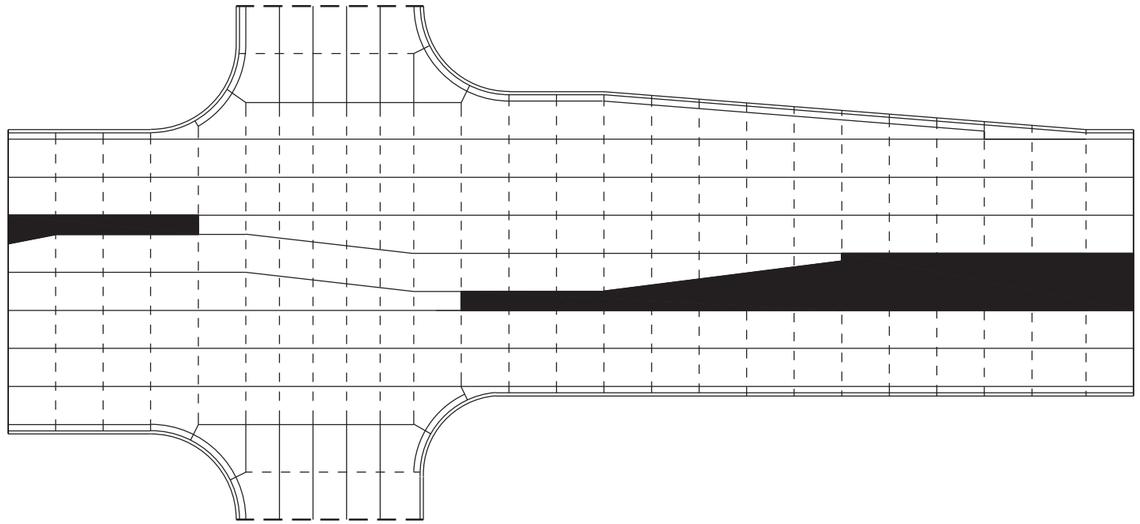
SDD 13C18-b Concrete Pavement Steel Reinforcement

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

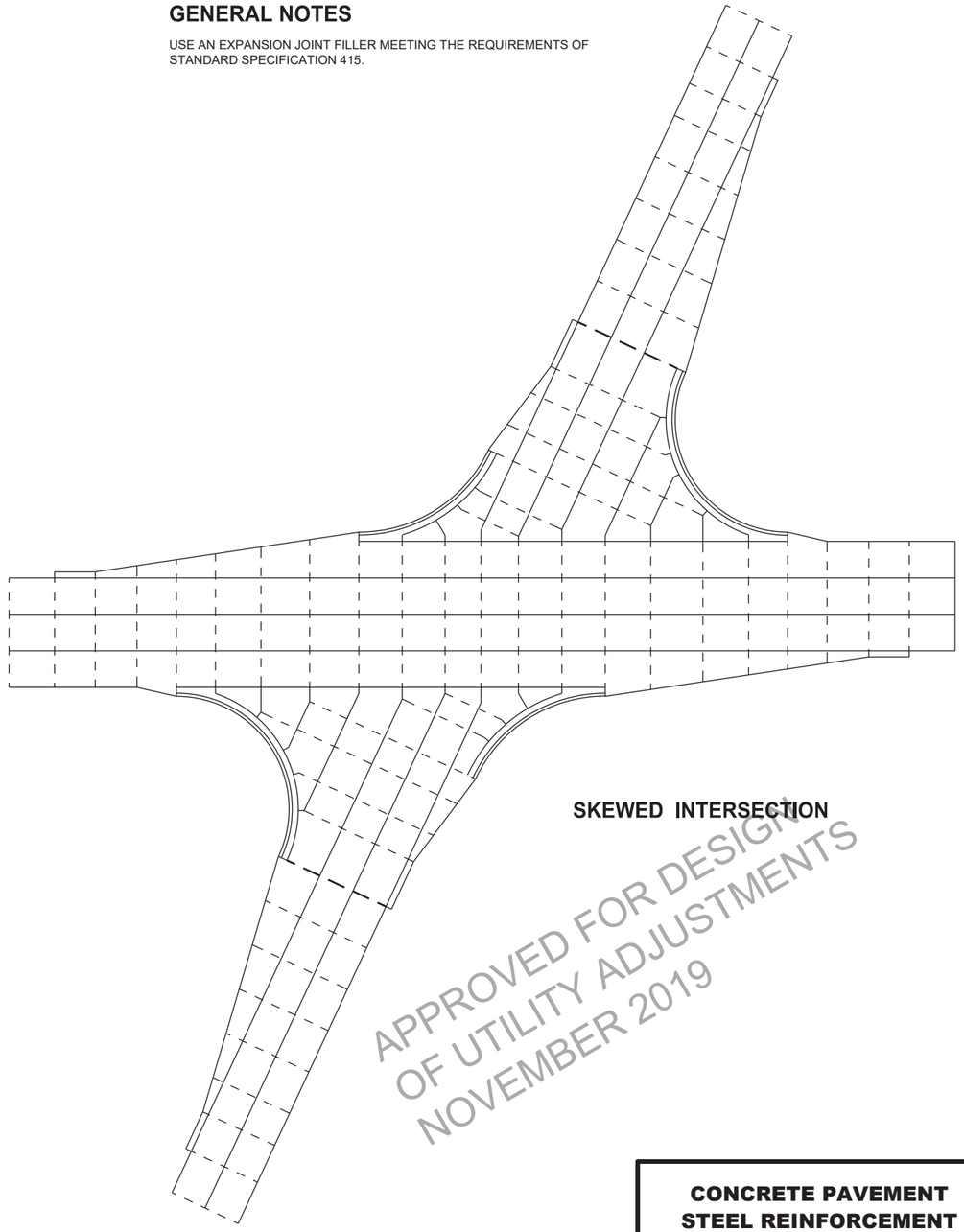
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

CONCRETE PAVEMENT STEEL REINFORCEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO PRE_253

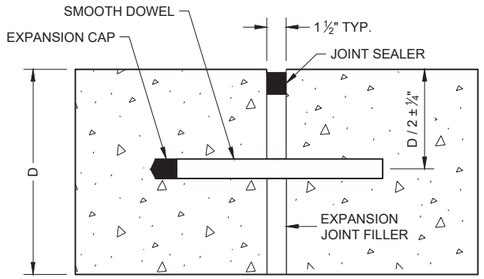
6

SDD 13C18 - 07b

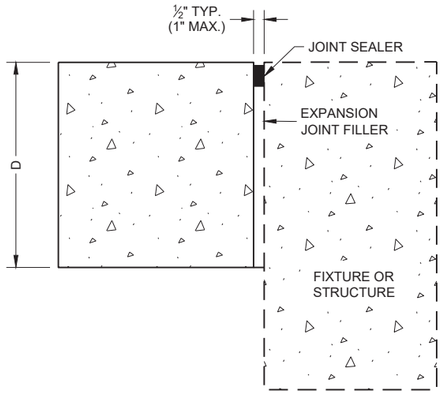
6

SDD 13C18 - 07b

SDD 13C18-c Concrete Pavement Joint Types



DOWELED TRANSVERSE (1)



UNTIED - LONGITUDINAL

EXPANSION JOINTS

TIE BAR TABLE

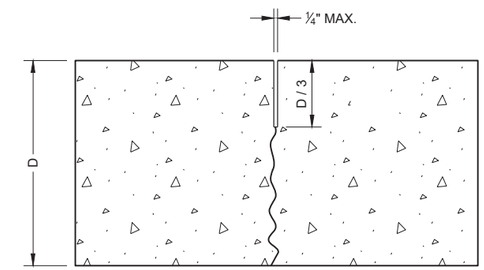
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

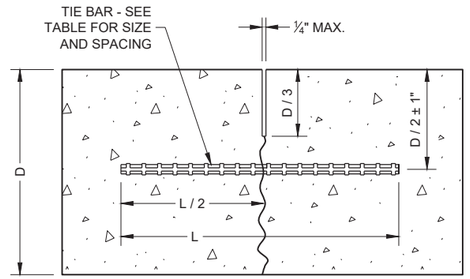
** CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

GENERAL NOTES

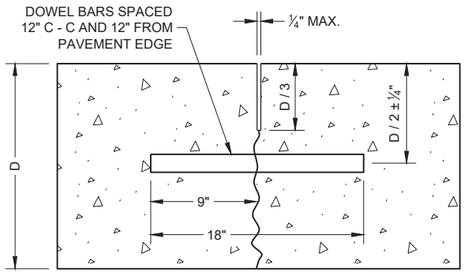
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATETHE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH SDD 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.
4. CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.
5. IF JOINT IS FORMED, PROVIDE A ¼" RADIUS.
6. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



UNDOWELED TRANSVERSE

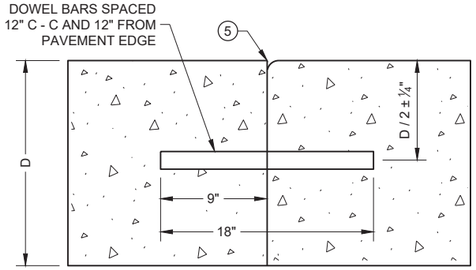


TIED LONGITUDINAL

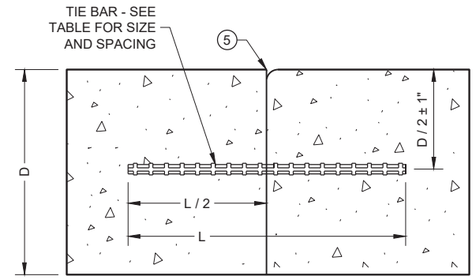


DOWELED TRANSVERSE

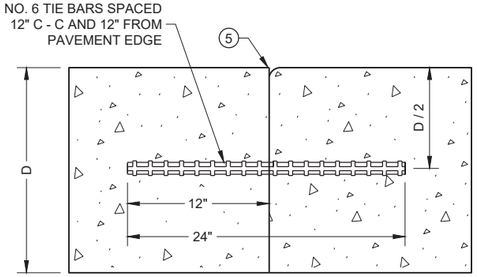
CONTRACTION JOINTS (2)



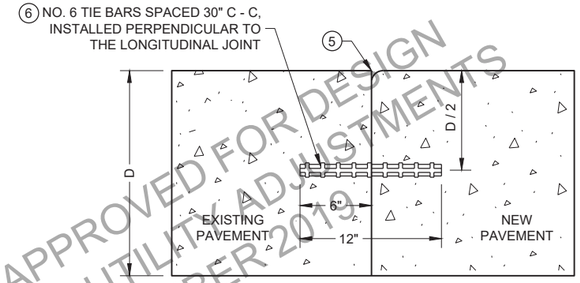
DOWELED TRANSVERSE (3)



TIED LONGITUDINAL



TIED TRANSVERSE (3)
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



TIED LONGITUDINAL TO EXISTING

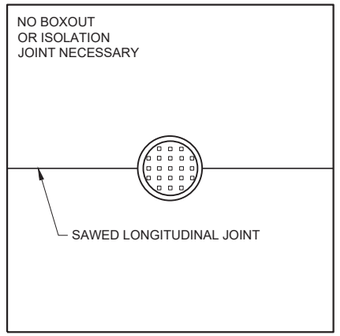
CONSTRUCTION JOINTS (4)

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

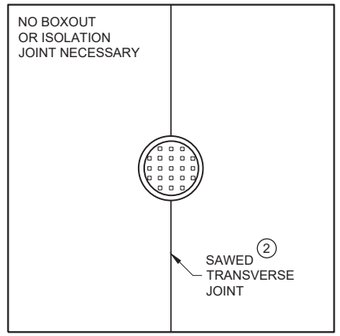
CONCRETE PAVEMENT JOINT TYPES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO PRE_254

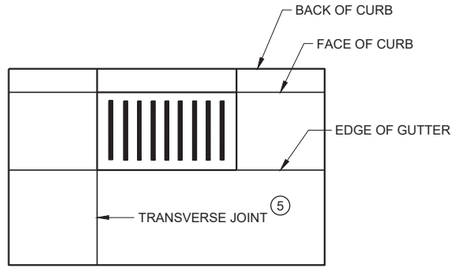
SDD 13C18-d Concrete Pavement Jointing at Utility Fixtures



MANHOLE WITH LONGITUDINAL JOINT



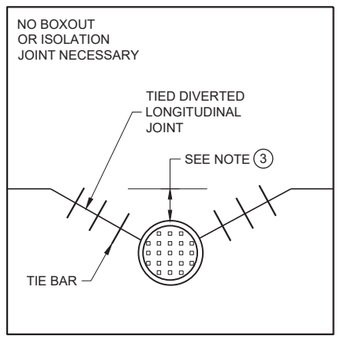
MANHOLE WITH TRANSVERSE JOINT



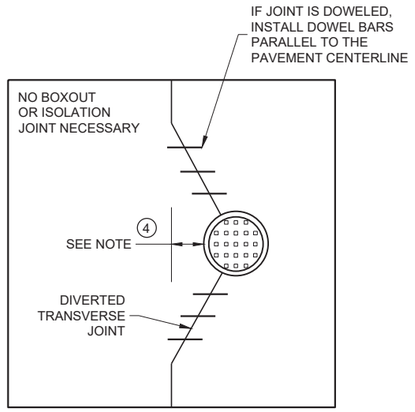
INLET WITH TRANSVERSE JOINT

GENERAL NOTES

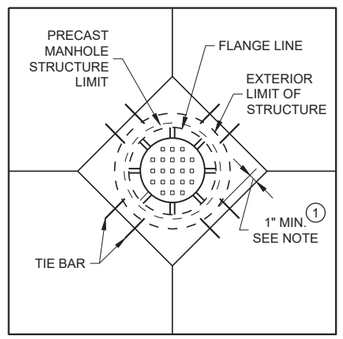
1. USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1 FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
2. ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
3. IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDINAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
4. IF THE DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS LESS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
5. ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT



DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE
/S/ Peter Kemp P.E.
PAVEMENT SUP PRE_255
FHWA

6

SDD 13C18 - 07d

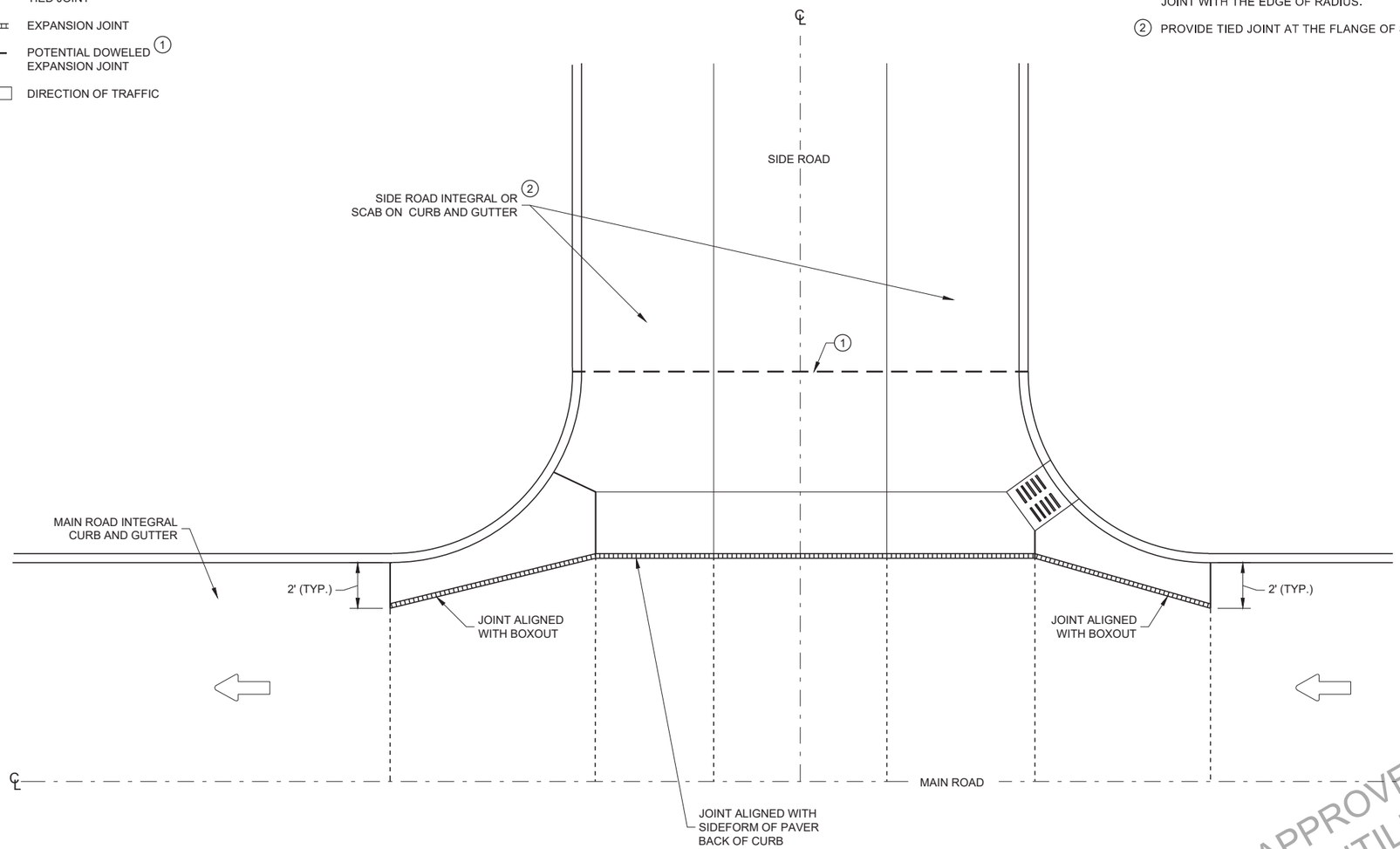
6

SDD 13C18 - 07d

SDD 13C18-f Concrete Pavement Intersection Boxout for Integral Curb and Gutter

LEGEND

- DOWELED JOINT
- TIED JOINT
- EXPANSION JOINT
- POTENTIAL DOWELED EXPANSION JOINT (1)
- DIRECTION OF TRAFFIC



GENERAL NOTES

(1) CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH THE EDGE OF RADIUS.

(2) PROVIDE TIED JOINT AT THE FLANGE OF SCAB ON CURB IF SCAB ON CURB AND GUTTER IS USE.

INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

CONCRETE PAVEMENT INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE
/S/ Peter Kemp P.E.
PAVEMENT SUP
PRE_256
FHWA

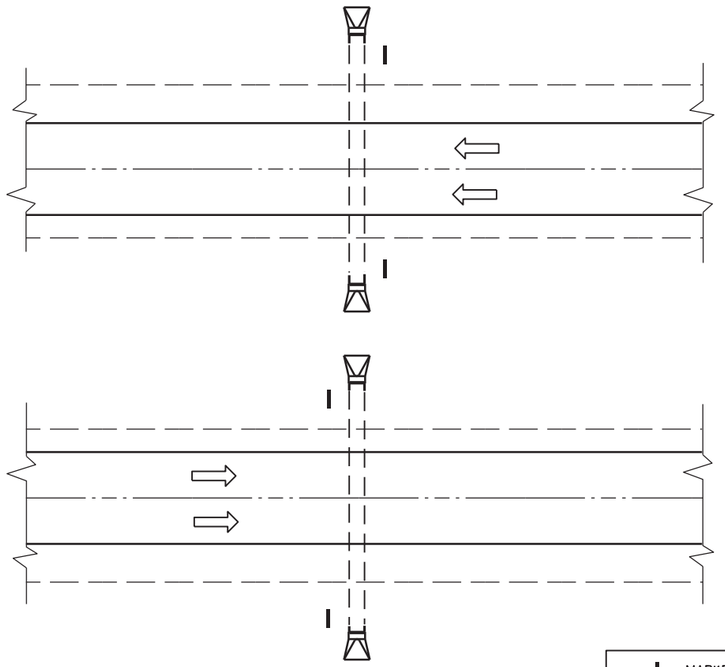
6

SDD 13C18 - 07f

6

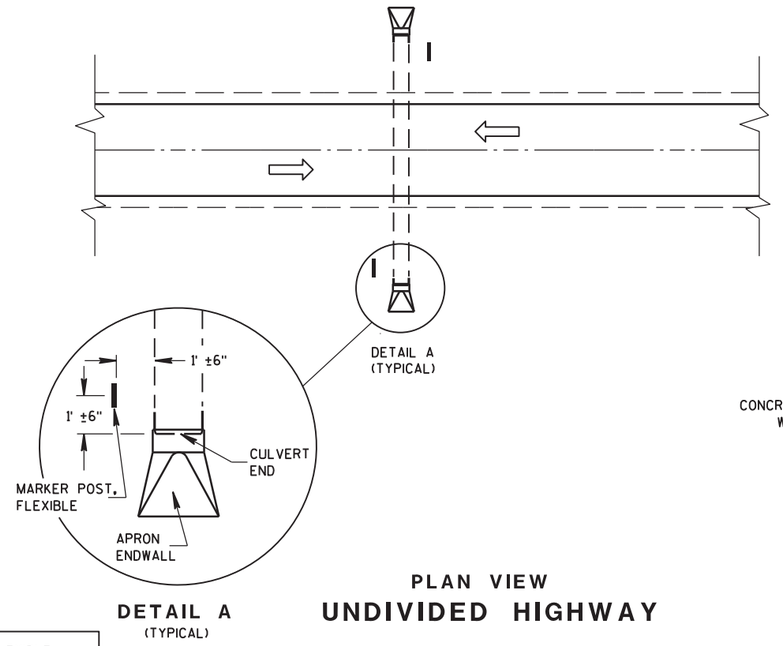
SDD 13C18 - 07f

SDD 15a3-a Flexible Marker Post for Culvert End



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

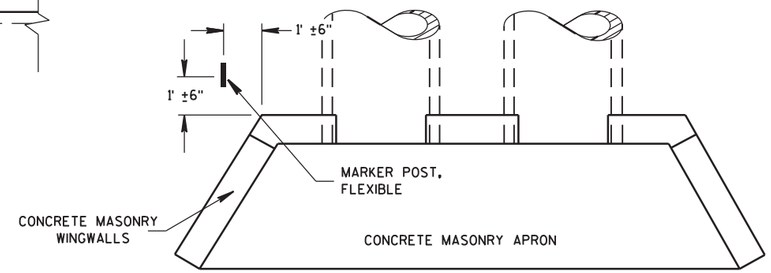
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

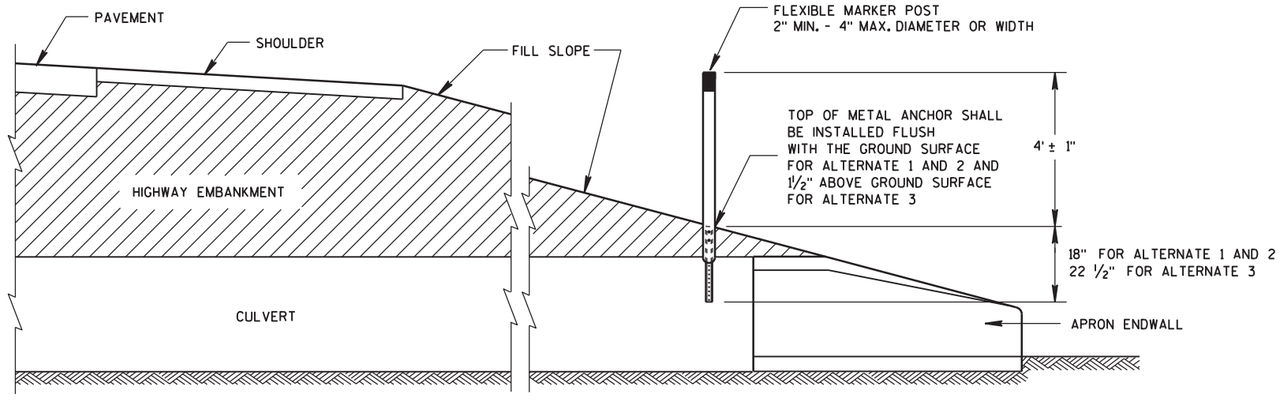
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

FLEXIBLE MARKER POST FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRAN PRE_257

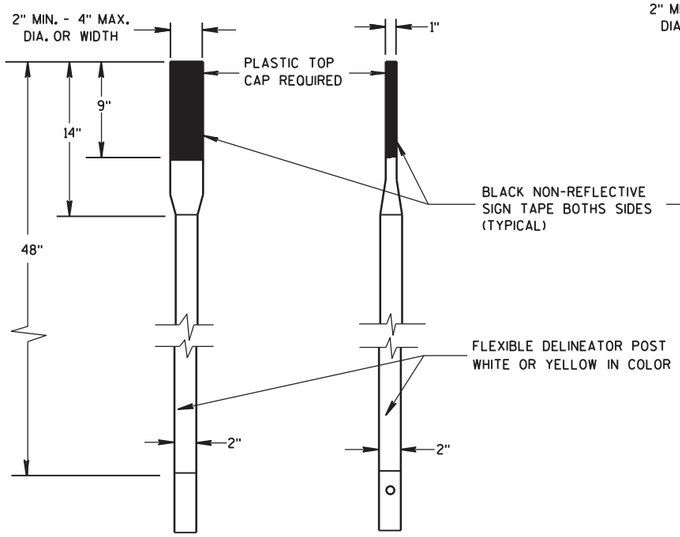
6

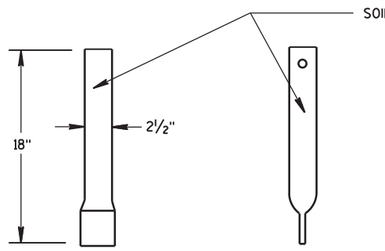
S.D.D. 15 A 3-2a

6

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

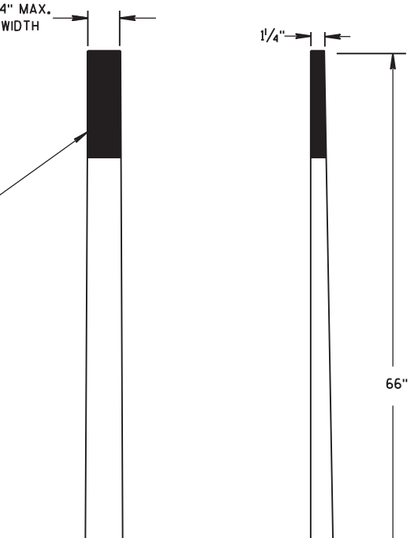
SDD 15a3-b Flexible Marker Post for Culvert End





FRONT VIEW SIDE VIEW

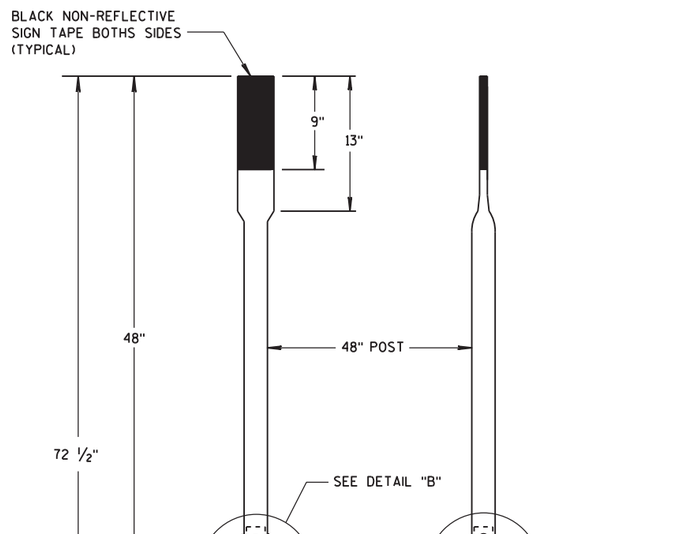
ALTERNATE 1



FRONT VIEW SIDE VIEW

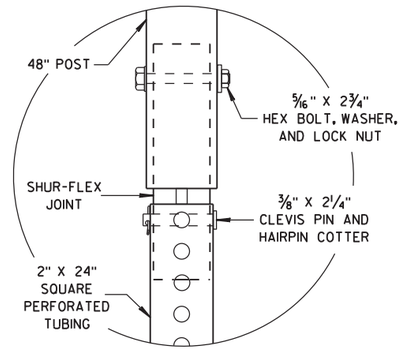
ALTERNATE 2

FLEXIBLE MARKER POSTS

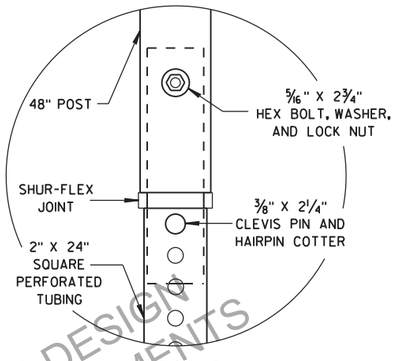


FRONT VIEW SIDE VIEW

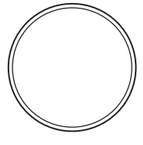
ALTERNATE 3



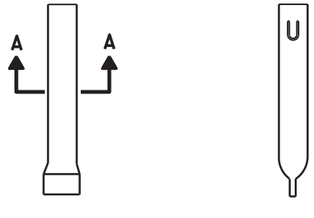
DETAIL B



DETAIL C

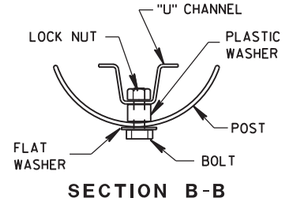


SECTION A-A



FRONT VIEW SIDE VIEW

ALTERNATE 1



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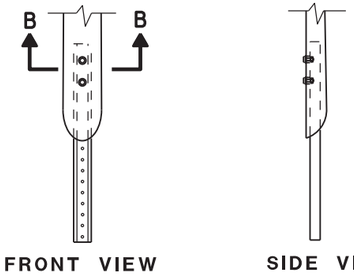
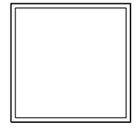


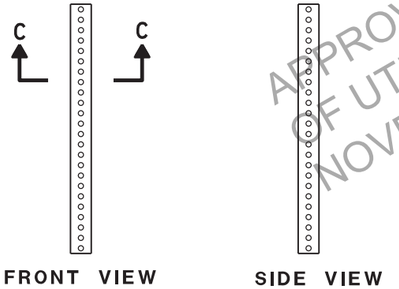
FRONT VIEW SIDE VIEW

ALTERNATE 2

FLEXIBLE MARKER POST ANCHORS



SECTION C-C



FRONT VIEW SIDE VIEW

ALTERNATE 3

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/1/2012
DATE

/S/ Travis Feltes
STATE TRAFFIC EN

FHWA

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

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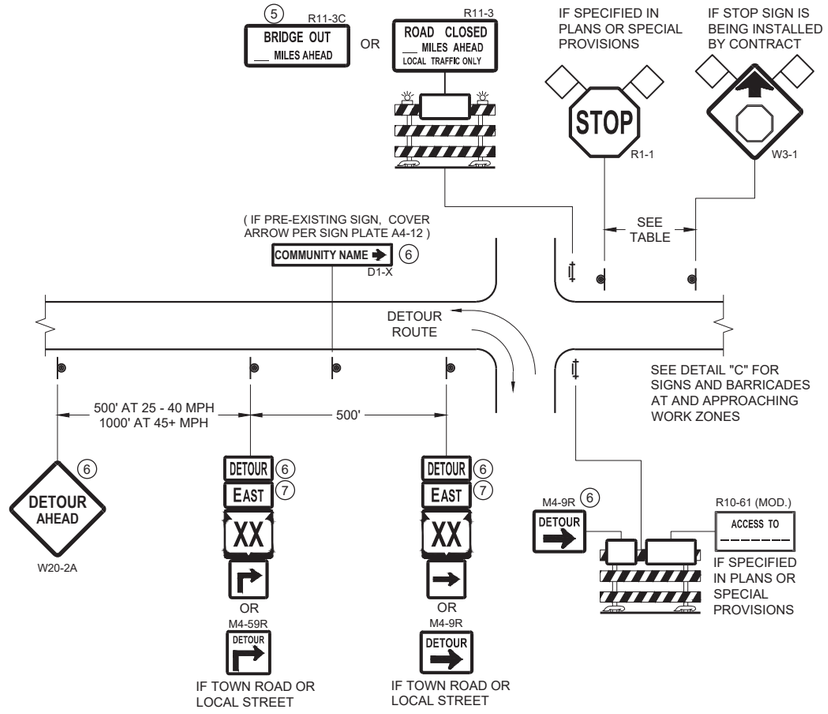
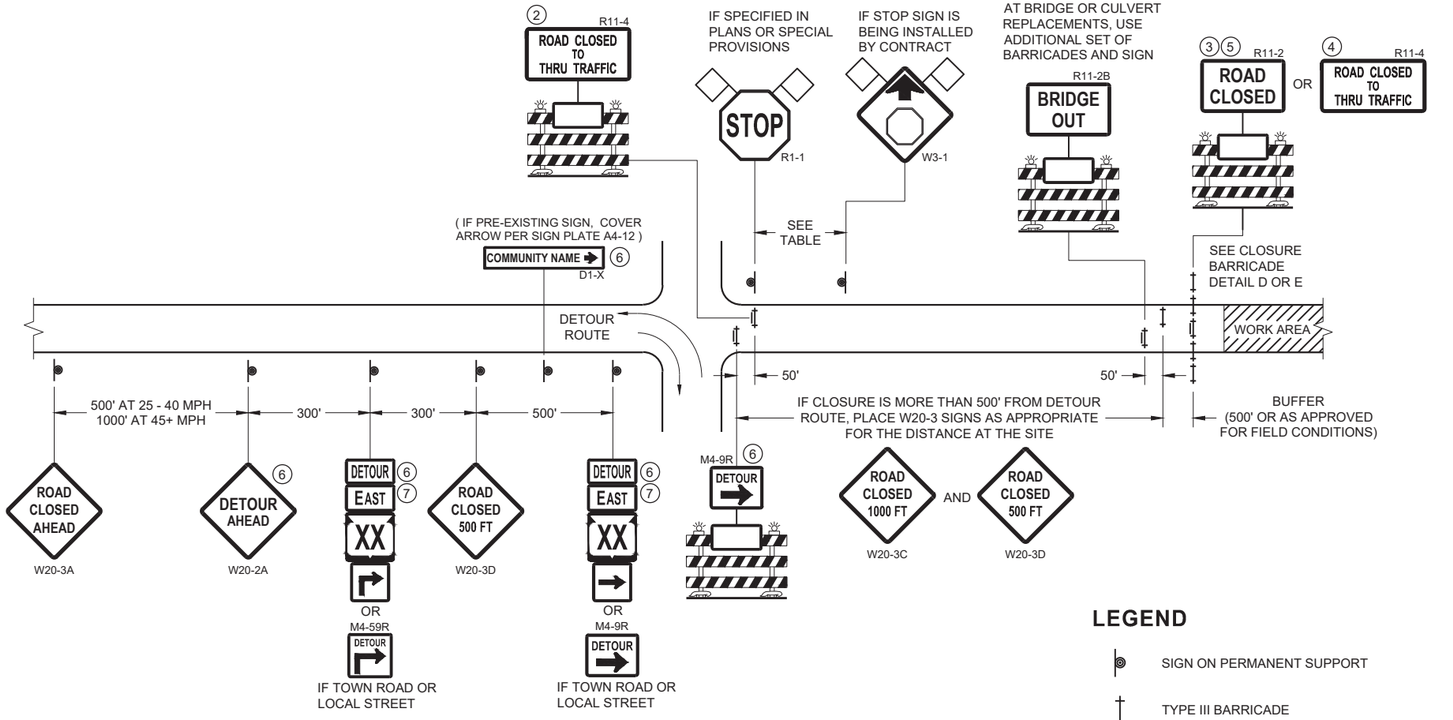
S.D.D. 15 A 3-2b

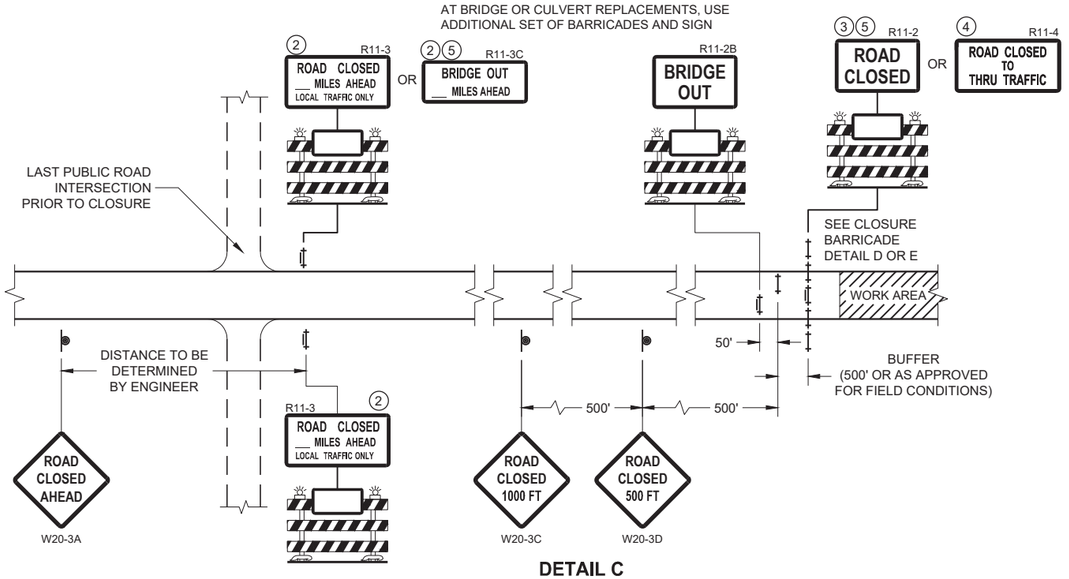
SDD 15C02-a Barricades and Signs for Mainline Closures



DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR
WORK ZONE GREATER THAN OR EQUAL TO ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR
WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

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

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

LEGEND

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

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

APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

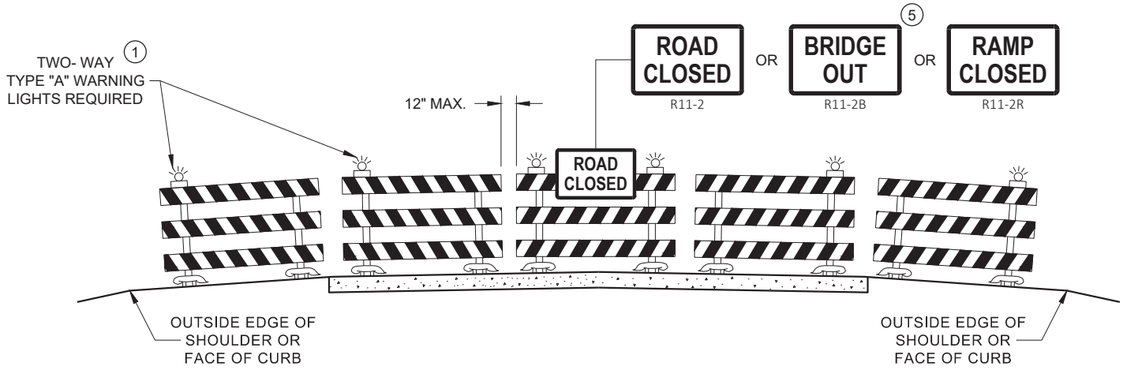
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

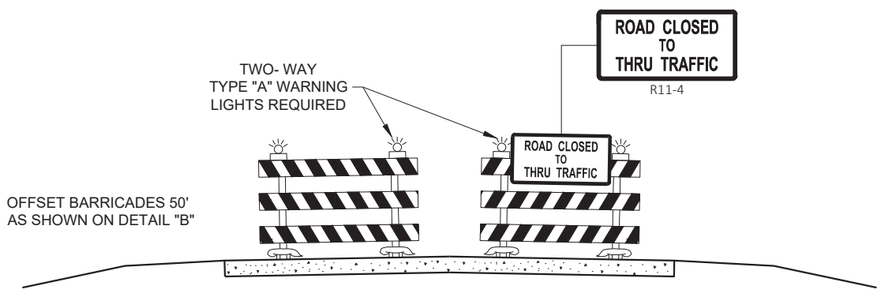
APPROVED
November 2018
DATE
/S/ Andrew Heidtke
WORK ZONE EN

FHWA

PRE_259



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE
/S/ Andrew Heidtke
WORK ZONE EN
FHWA

PRE_260

SDD 15C02-c Detour Signing for Mainline Closures

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

LEGEND

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

GENERAL NOTES

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

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

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

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

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

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

SIGN SIZES SHALL BE AS FOLLOWS:

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

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

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

M3-X 24" X 12"
M1-X 24" X 24"
DETOUR AHEAD
W20-2A
USE ON STATE TRUNK, U.S. OR INTERSTATE HIGHWAYS, OR AS SPECIFIED IN THE CONTRACT

500' AT 25-40 MPH
1000' AT 45+ MPH

500'

DETOUR EAST XX *

D1-X COMMUNITY NAME *
(IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

M4-8a END DETOUR WEST XX *

DETOUR EAST XX / WEST XX

DETOUR ROUTE

WORK AREA

DETOUR EAST XX

WEST XX OR M4-9L DETOUR ** IF TOWN ROAD OR LOCAL STREET

500'

DETOUR NEXT X MILES * G20-51

DETOUR WEST XX * OR M4-59L DETOUR ** IF TOWN ROAD OR LOCAL STREET

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

MATCH POINT

* ** M4-59L DETOUR OR DETOUR EAST XX * IF TOWN ROAD OR LOCAL STREET

D1-X COMMUNITY NAME * (IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

500'

** M4-9L DETOUR OR DETOUR EAST XX IF TOWN ROAD OR LOCAL STREET

DETOUR WEST XX OR M4-9R DETOUR ** IF TOWN ROAD OR LOCAL STREET

DETOUR WEST XX * OR M4-59R * DETOUR ** IF TOWN ROAD OR LOCAL STREET

500'

DETOUR ROUTE

500' AT 25 - 40 MPH
1000' AT 45+ MPH

500'

M3-X 24" X 12"
M1-X 24" X 24"
DETOUR AHEAD
W20-2A
USE ON STATE TRUNK, U.S. OR INTERSTATE HIGHWAYS, OR AS SPECIFIED IN THE CONTRACT

DETOUR EAST XX *

D1-X COMMUNITY NAME *
(IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

DETOUR EAST XX

500'

DETOUR EAST XX

D1-X COMMUNITY NAME *
(IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

PLACE SIGNS BEYOND INTERSECTIONS WITH STATE OR COUNTY TRUNK HIGHWAYS OR AT 4 MILE MAXIMUM SPACING (4 BLOCKS IF URBAN AREA)

500' AT 25 - 40 MPH
1000' AT 45+ MPH

DETOUR EAST XX *

M3-X 24" X 12"
M1-X 24" X 24"
DETOUR AHEAD
W20-2A
USE ON STATE TRUNK, U.S. OR INTERSTATE HIGHWAYS, OR AS SPECIFIED IN THE CONTRACT

DETAIL F
DETOUR SIGNING

APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2018

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Andrew Heidtke
WORK ZONE EN

FHWA

PRE_261

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SDD 15C02 - 07c

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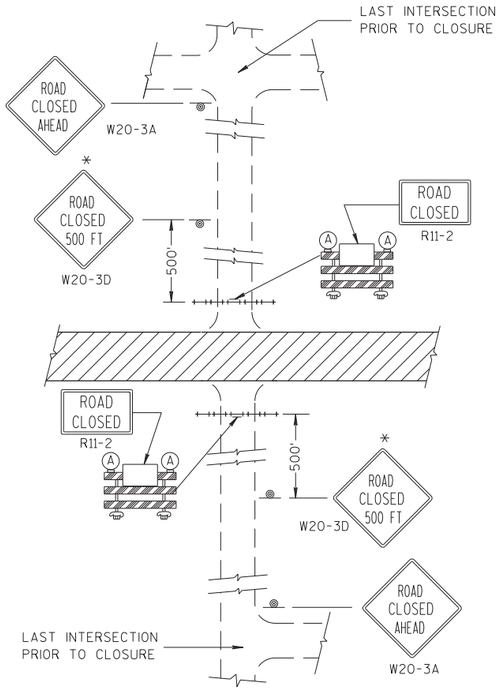
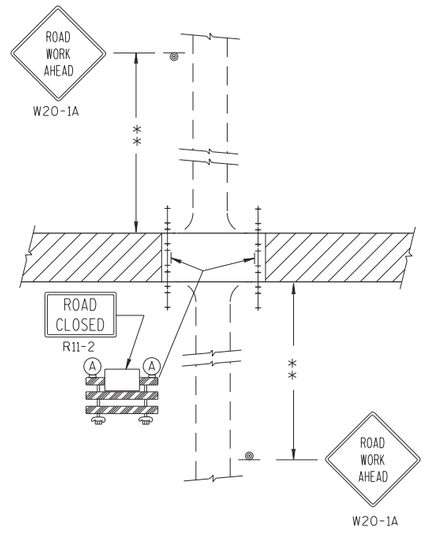
SDD 15C02 - 07c



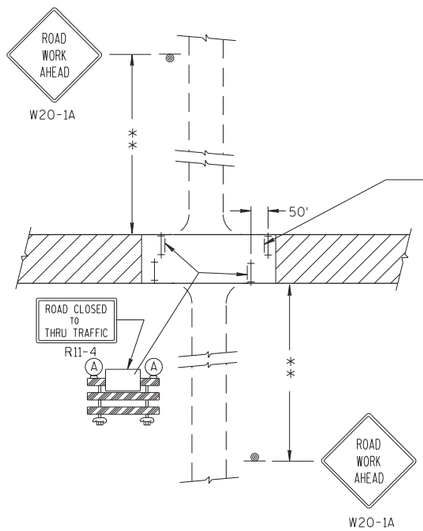
DETAIL 1

(NO ACCESS TO PROJECT)



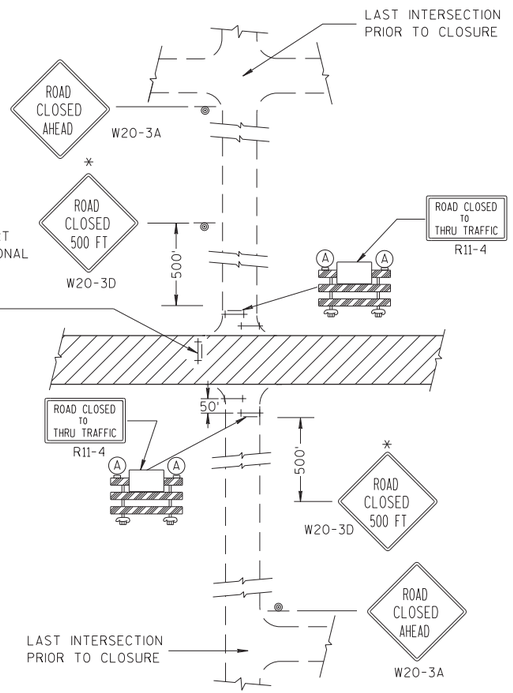
DETAIL 2

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



DETAIL 3

(PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR,
LOCAL BUSINESS AND RESIDENT ACCESS).



DETAIL 4

(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

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

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

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

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

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

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

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

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

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018
DATE

/S/ Andrew Heidtke
WORK ZONE PRE_262

FHWA

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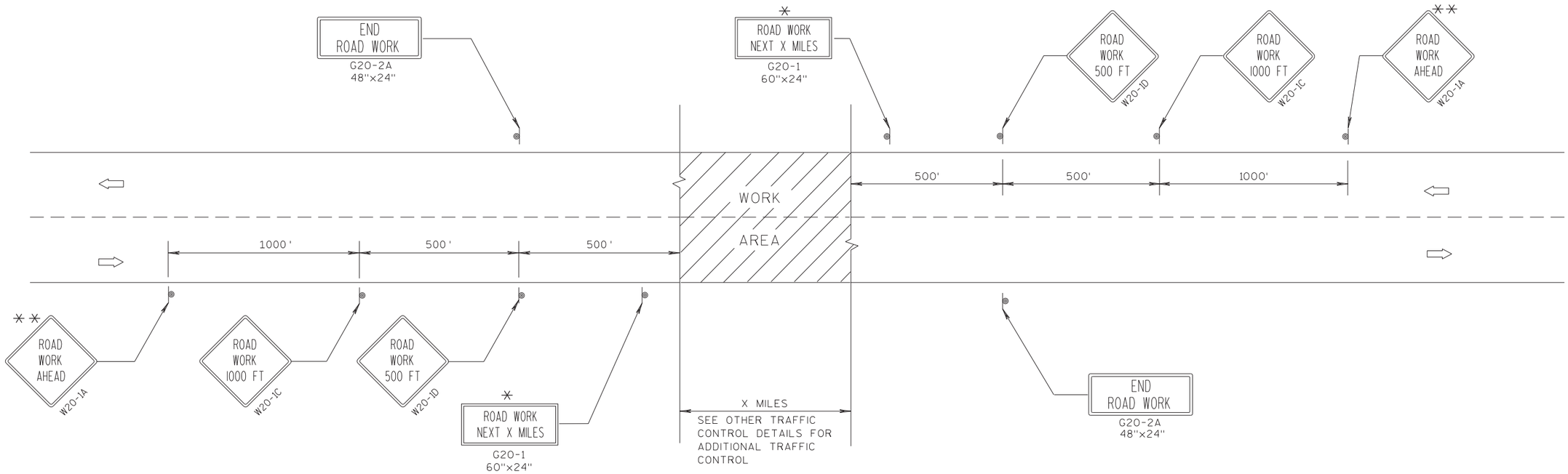
S.D.D. 15 C 3-5

TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



GENERAL NOTES

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

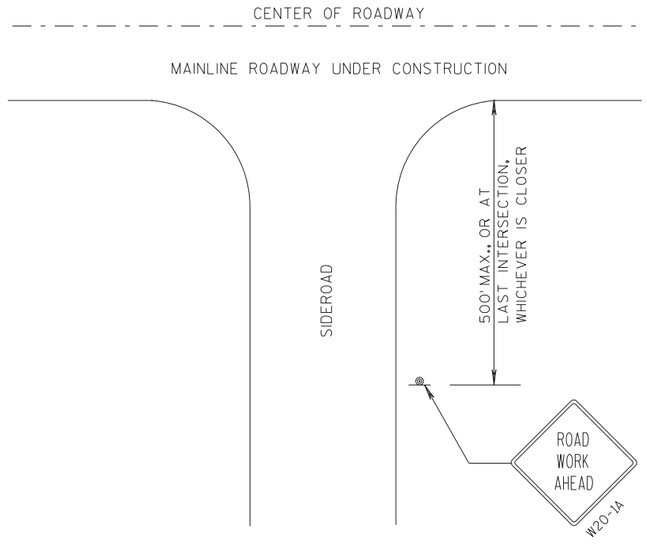
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

** PLACE ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA

APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018 DATE
/S/ Andrew Heldtke WORK ZONE PRE_263
FHWA

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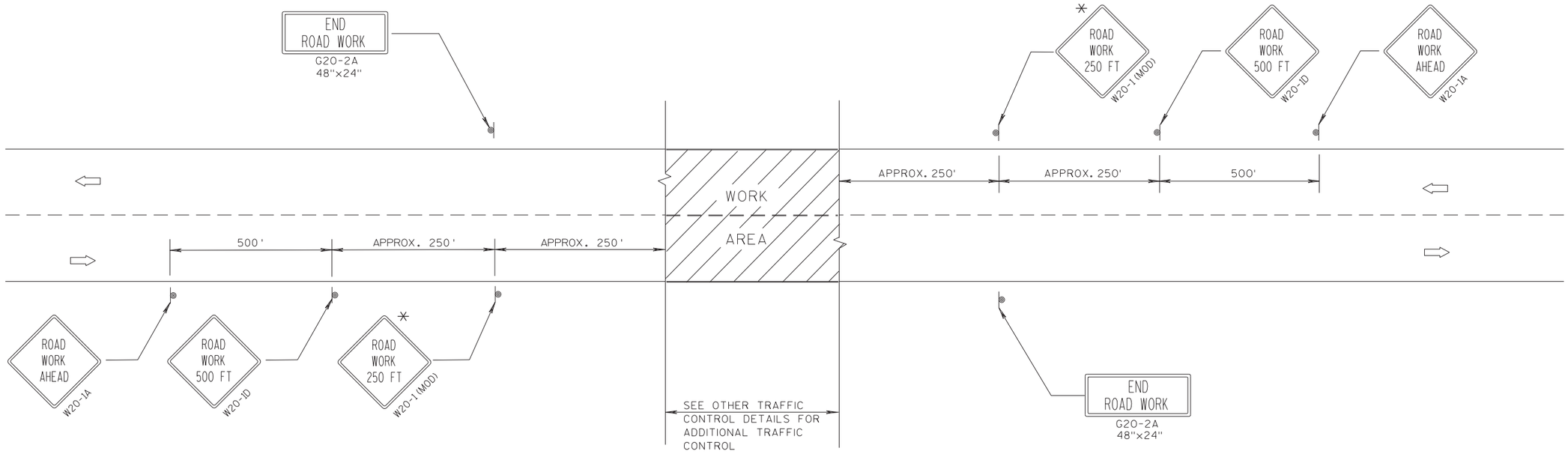
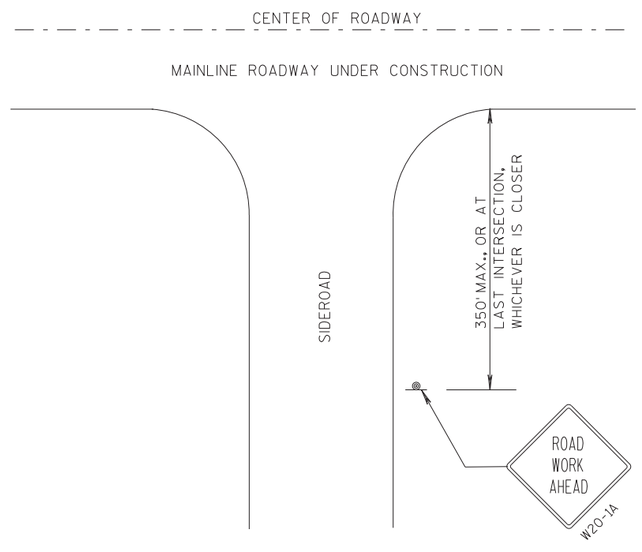
S.D.D. 15 C 4-5

SDD 15c5 Traffic Control, Advance Warning Signs 40 M.P.H. or Less, Two Way Undivided Road Open to Traffic



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



GENERAL NOTES

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

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS.

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

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

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.

LEGEND

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

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
/S/ Andrew Heldtke
WORK ZONE E
FHWA

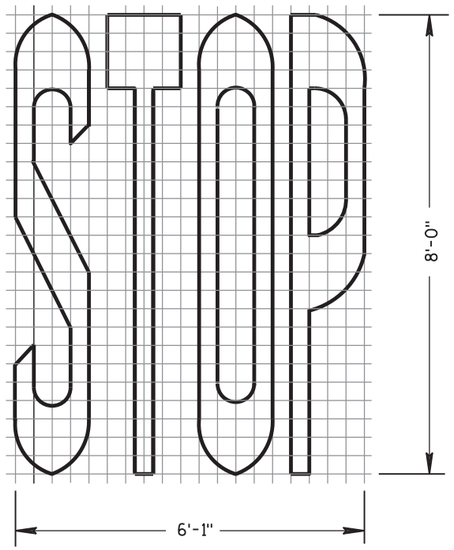
6

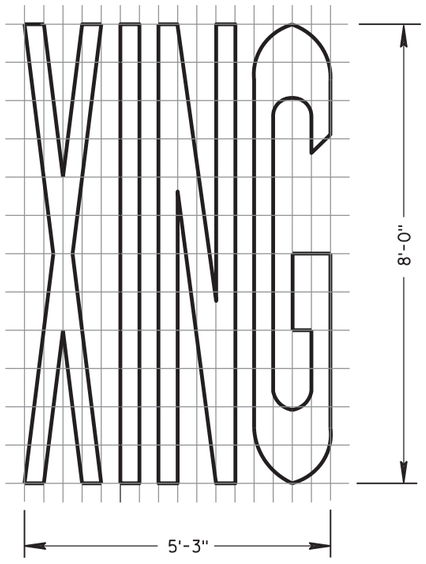
S.D.D. 15 C 5-5

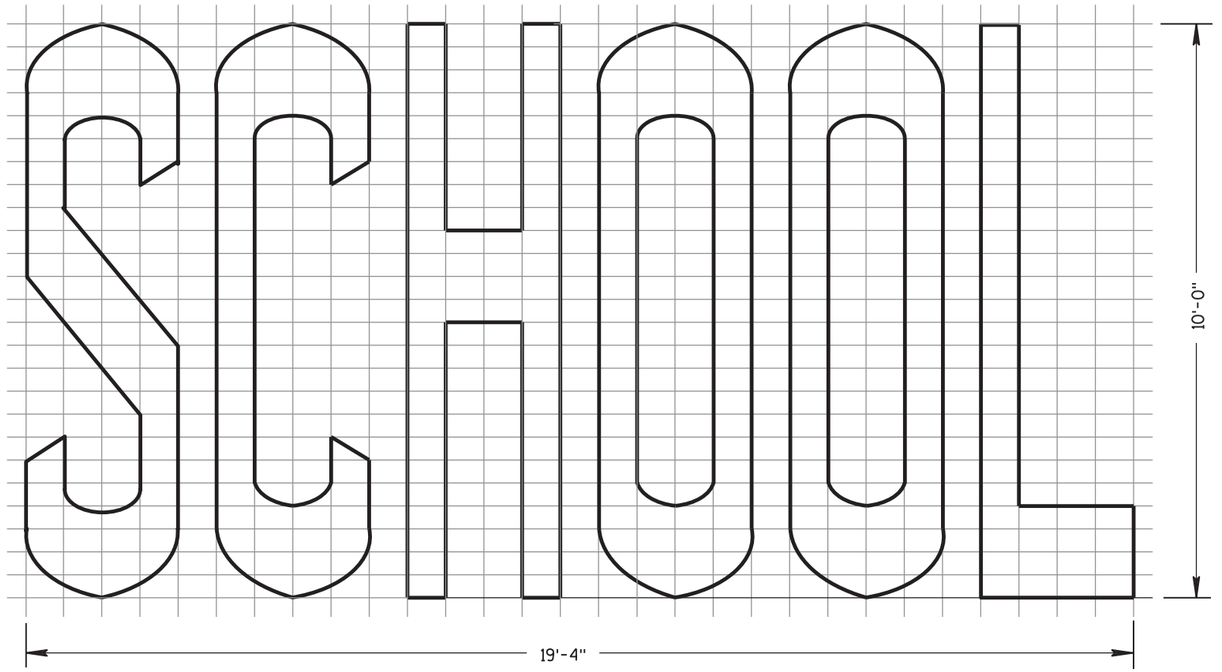
SDD 15c7-b Pavement Marking Words, Symbols and Arrows

GENERAL NOTES

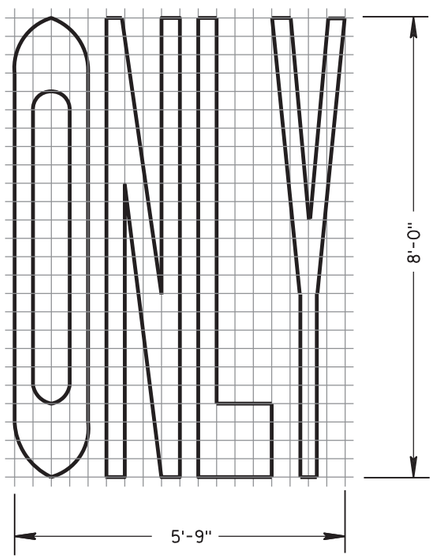
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

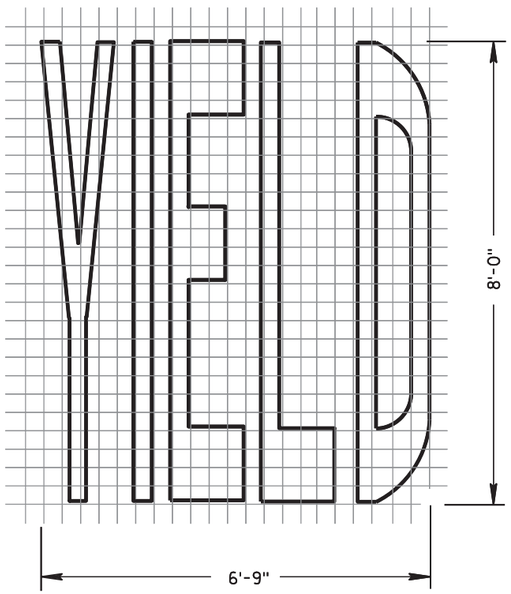


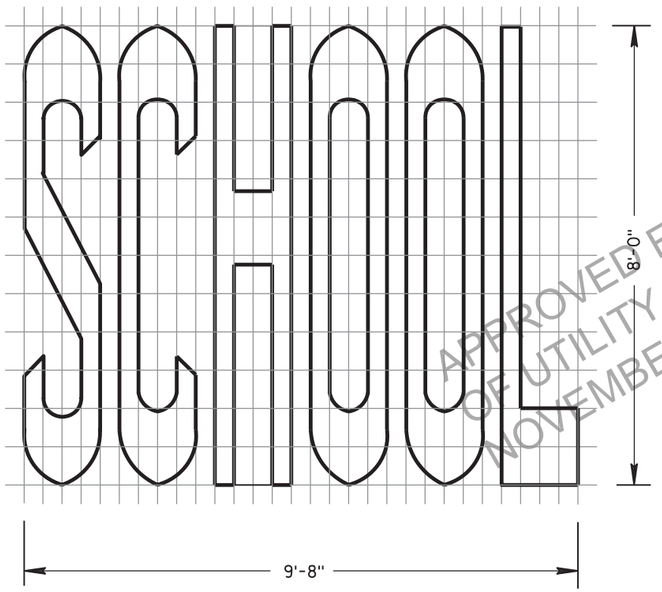




TWO-LANE







SINGLE-LANE

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND PRE_265 ER
FHWA

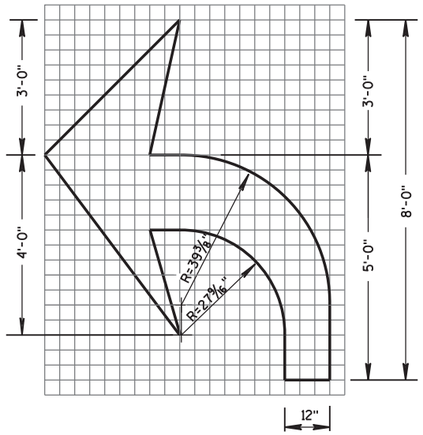
6

S.D.D. 15 C 7-14b

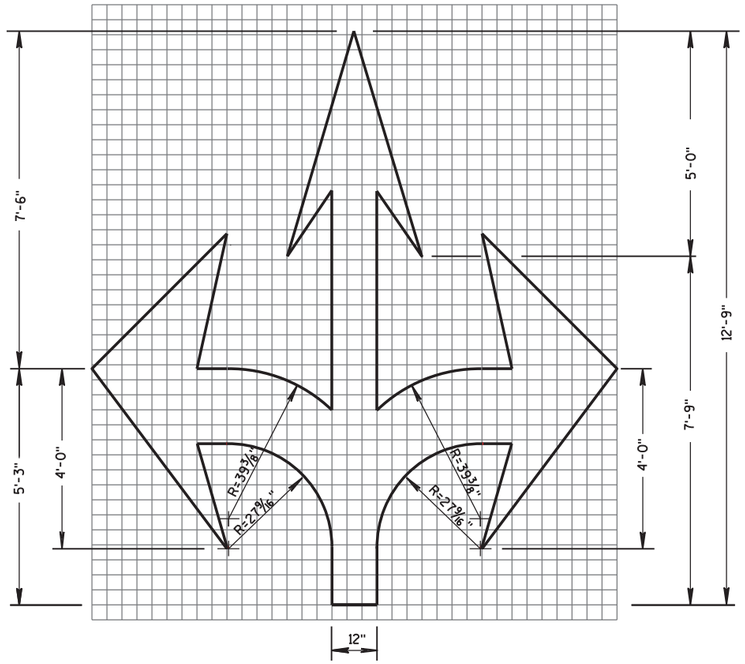
6

S.D.D. 15 C 7-14b

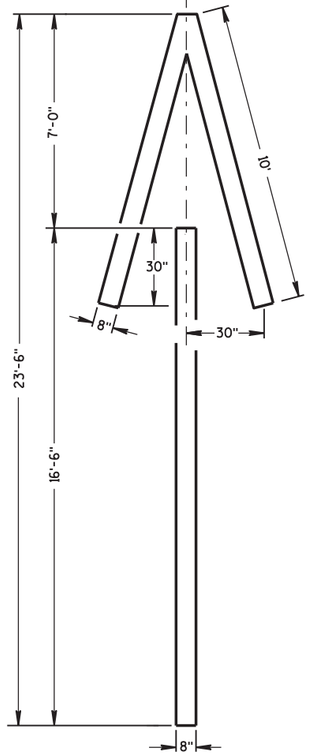
SDD 15c7-c Pavement Marking Words, Symbols and Arrows



TYPE 2



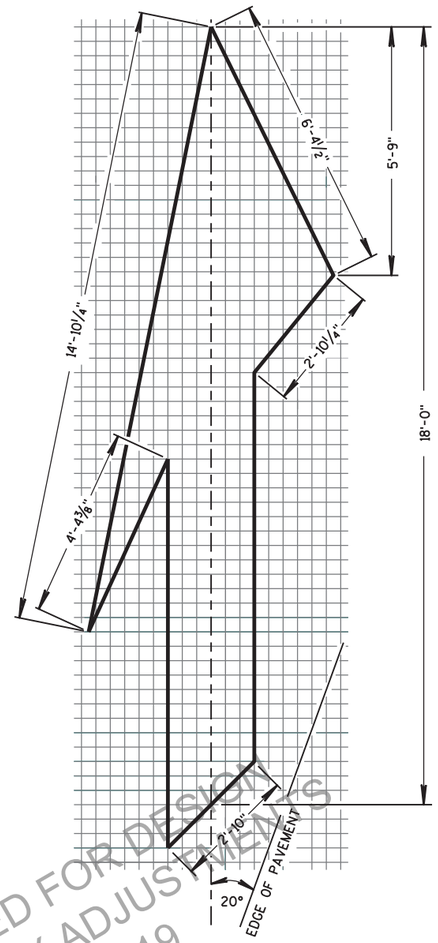
TYPE 6



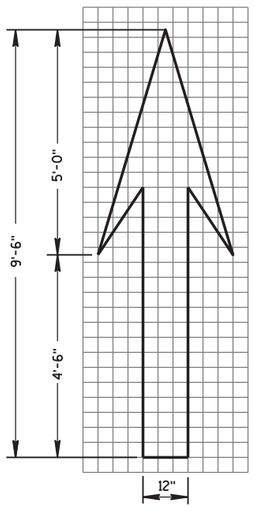
TYPE 4

GENERAL NOTES

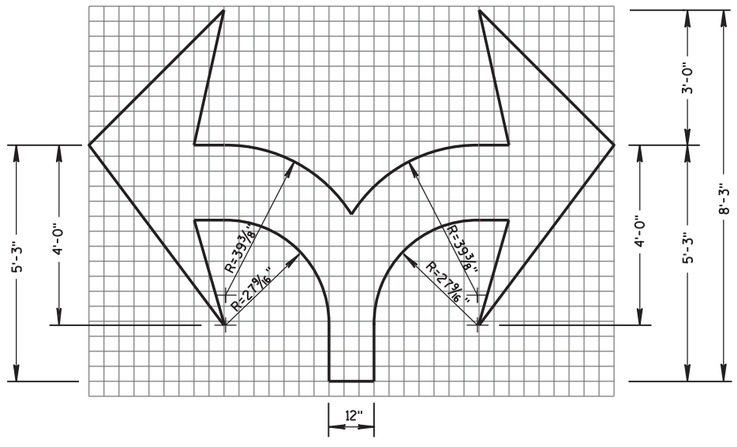
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



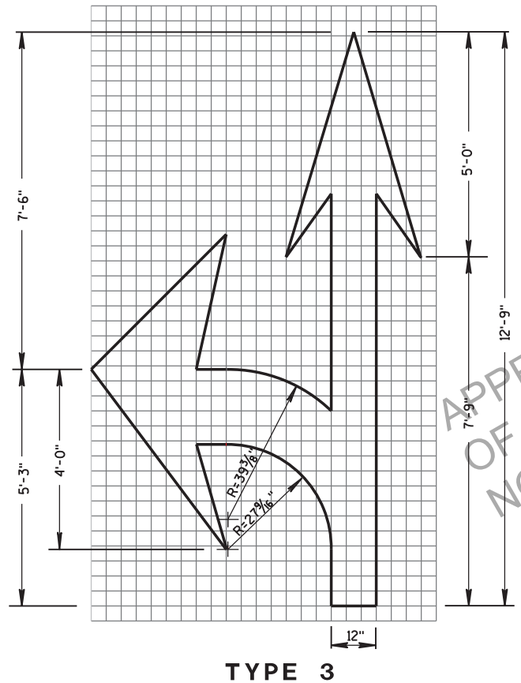
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

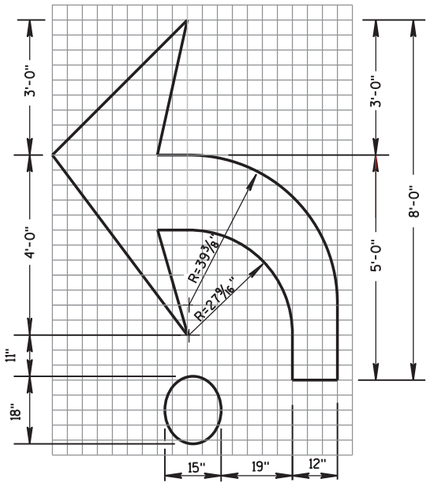
APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND PRE_266 ER
FHWA

6

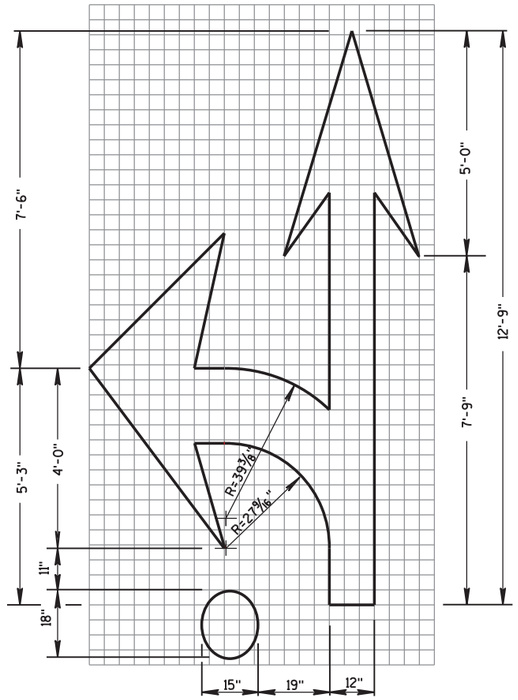
S.D.D. 15 C 7-14c

6

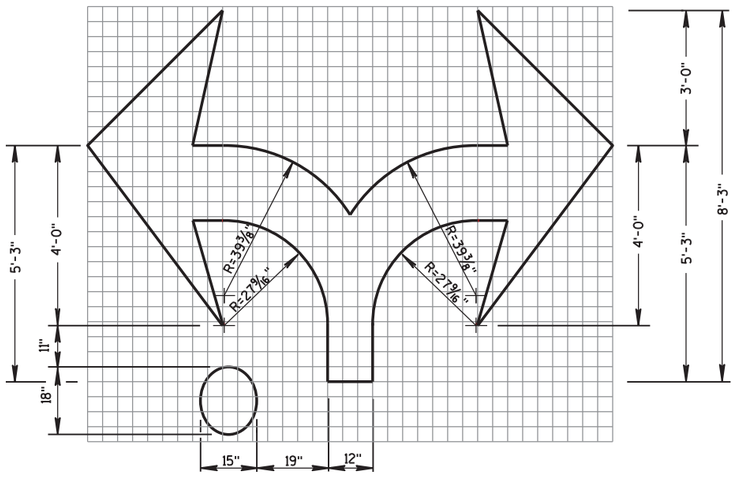
S.D.D. 15 C 7-14c



TYPE 2R



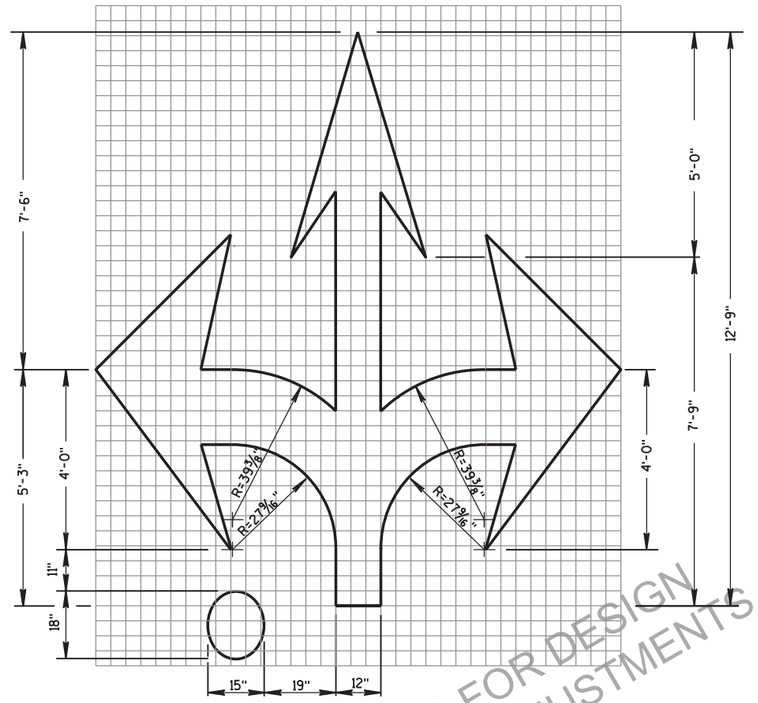
TYPE 3R



TYPE 7R

GENERAL NOTES

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



TYPE 6R

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

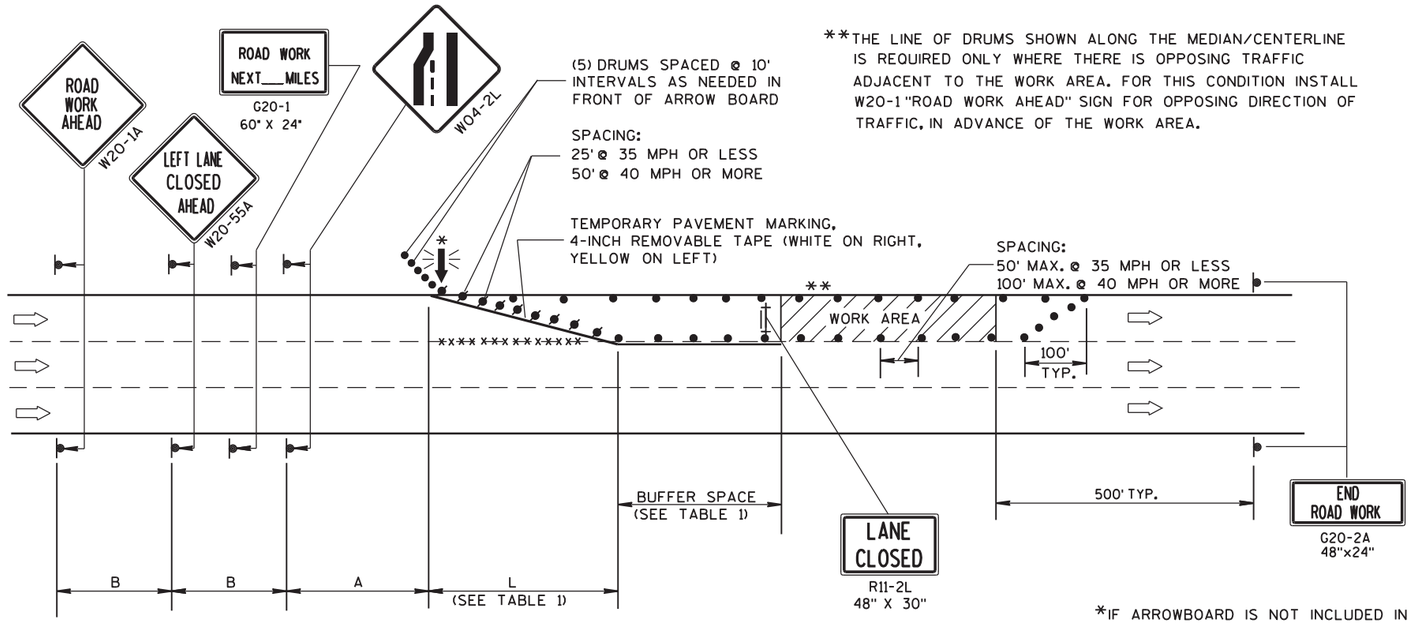
ROUNDABOUT ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND PRE_267 EER
FHWA

6
S.D.D. 15 C 7-14d

SDD 15d20 Traffic Control, Single Lane Closure, Non Freeway/Expressway



**THE LINE OF DRUMS SHOWN ALONG THE MEDIAN/CENTERLINE IS REQUIRED ONLY WHERE THERE IS OPPOSING TRAFFIC ADJACENT TO THE WORK AREA. FOR THIS CONDITION INSTALL W20-1 "ROAD WORK AHEAD" SIGN FOR OPPOSING DIRECTION OF TRAFFIC, IN ADVANCE OF THE WORK AREA.

B=400' AT 25-30 MPH
700' AT 35-40 MPH
1000' AT 45-55 MPH

A=200' AT 25-30 MPH
350' AT 35-40 MPH
500' AT 45-55 MPH

(PLACE BARRICADE AND SIGN APPROX. EVERY 1000' ACROSS THE CLOSED LANE)

*IF ARROWBOARD IS NOT INCLUDED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE A TYPE III BARRICADE WITH W01-6 SIGN IN THE LANE CLOSURE TAPER.

W01-6
48"x24"

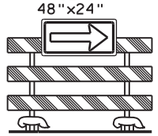


TABLE 1
TAPER AND BUFFER SPACE FOR 12' LANE WIDTH

S	L	BUFFER SPACE
25	125'	55'
30	180'	85'
35	245'	120'
40	320'	170'
45	540'	220'
50	600'	280'
55	660'	335'

FOR LANE WIDTH OTHER THAN 12':

L = WS AT 45 MPH OR GREATER

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

L = TAPER LENGTH IN FEET

S = NON-CONSTRUCTION SPEED LIMIT (MPH)

W = WIDTH OF LANE CLOSURE

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA

GENERAL NOTES

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

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

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

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

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

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

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

ON UNDIVIDED ROADWAYS, OMIT THE SIGNS SHOWN ON LEFT SIDE OF ROAD.

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.

PLACE THE ARROWBOARD AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE LANE CLOSURE TAPER, PREFERABLY ON THE SHOULDER OR TERRACE.

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

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

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

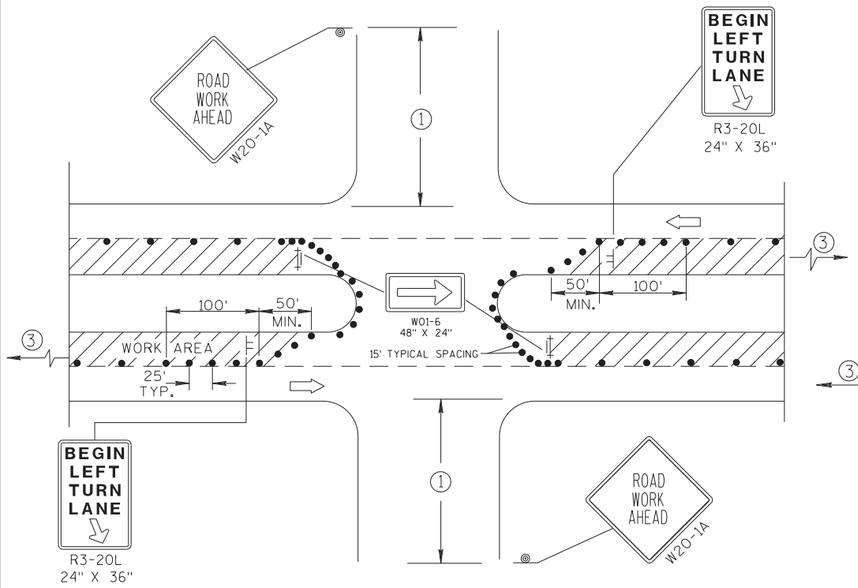
TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016 — DATE
FHWA

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE SAFETY I

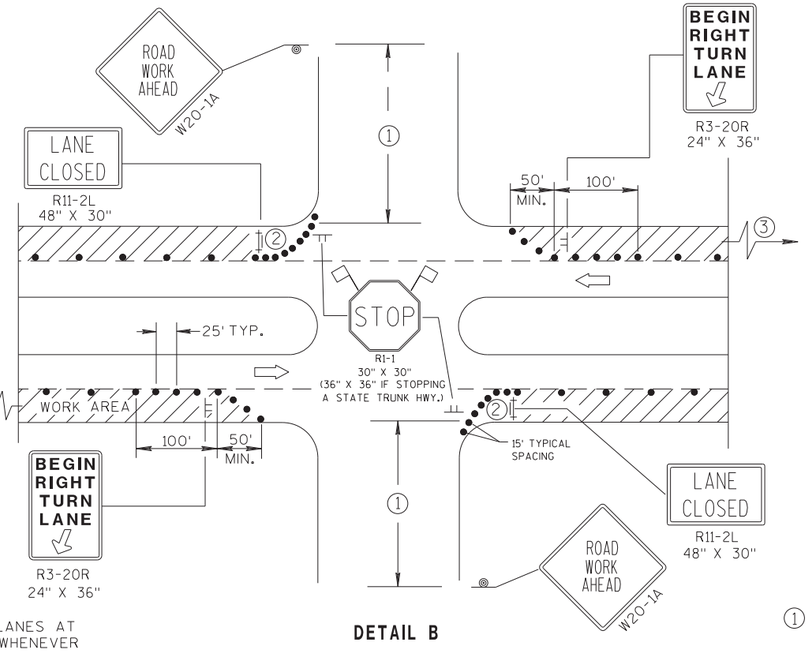
6
S.D.D. 15 D 20-4



DETAIL A

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING

PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.



DETAIL B

FOR RIGHT LANE CLOSURE AT INTERSECTION

GENERAL NOTES

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

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

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

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

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

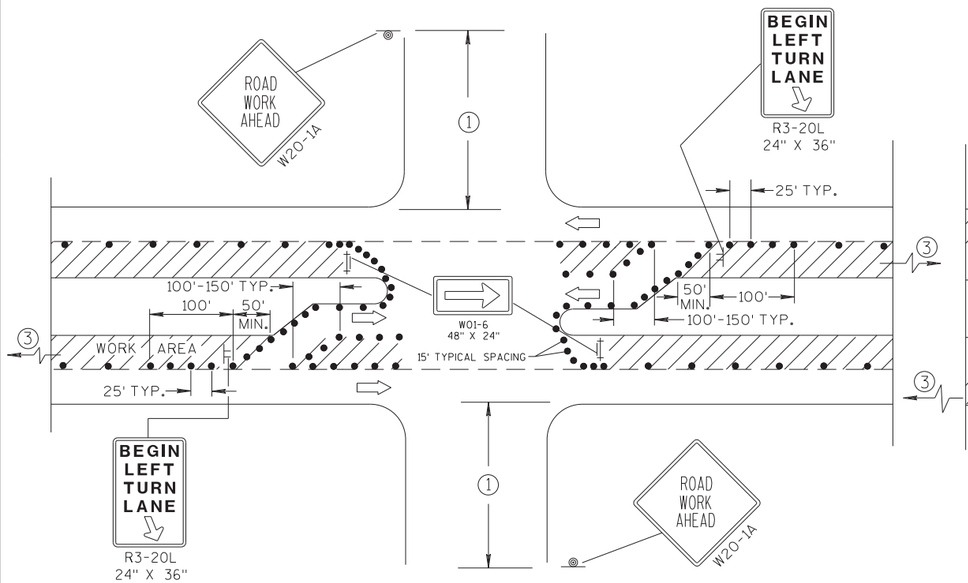
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

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

(1) 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35-40 MPH.
200' IF 25-30 MPH.

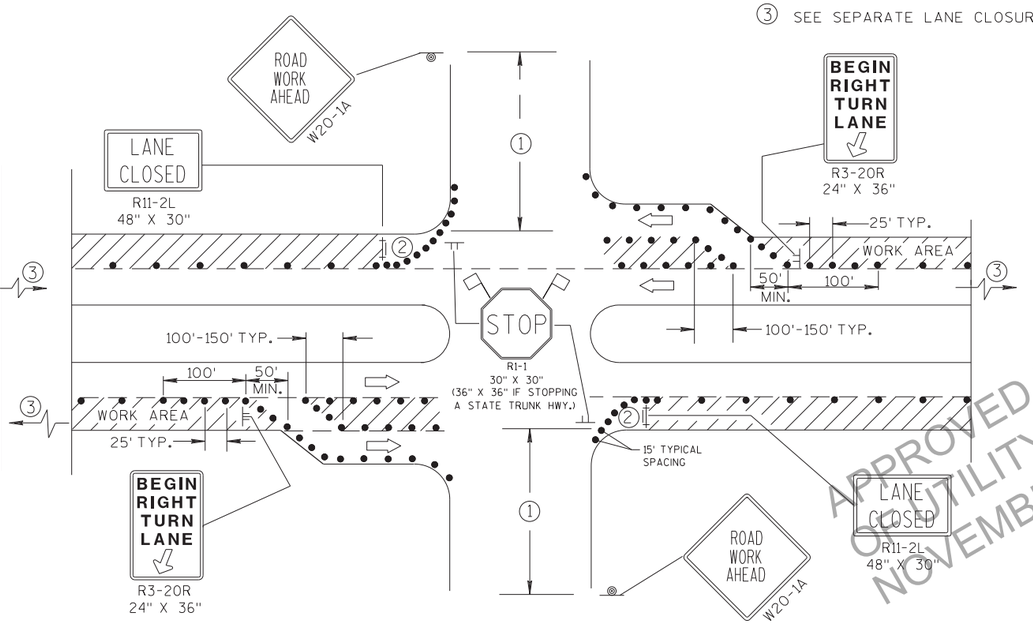
(2) ALSO USE BARRICADE AND 15-FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS.

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.



DETAIL C

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING (WITH LEFT TURN BAY OPEN)



DETAIL D

FOR RIGHT LANE CLOSURE AT INTERSECTION (WITH RIGHT TURN BAY OPEN)

LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT (5' MIN. MOUNTING HEIGHT)
- TYPE III BARRICADE WITH ATTACHED SIGN AND TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., (ORANGE)
- WORK AREA

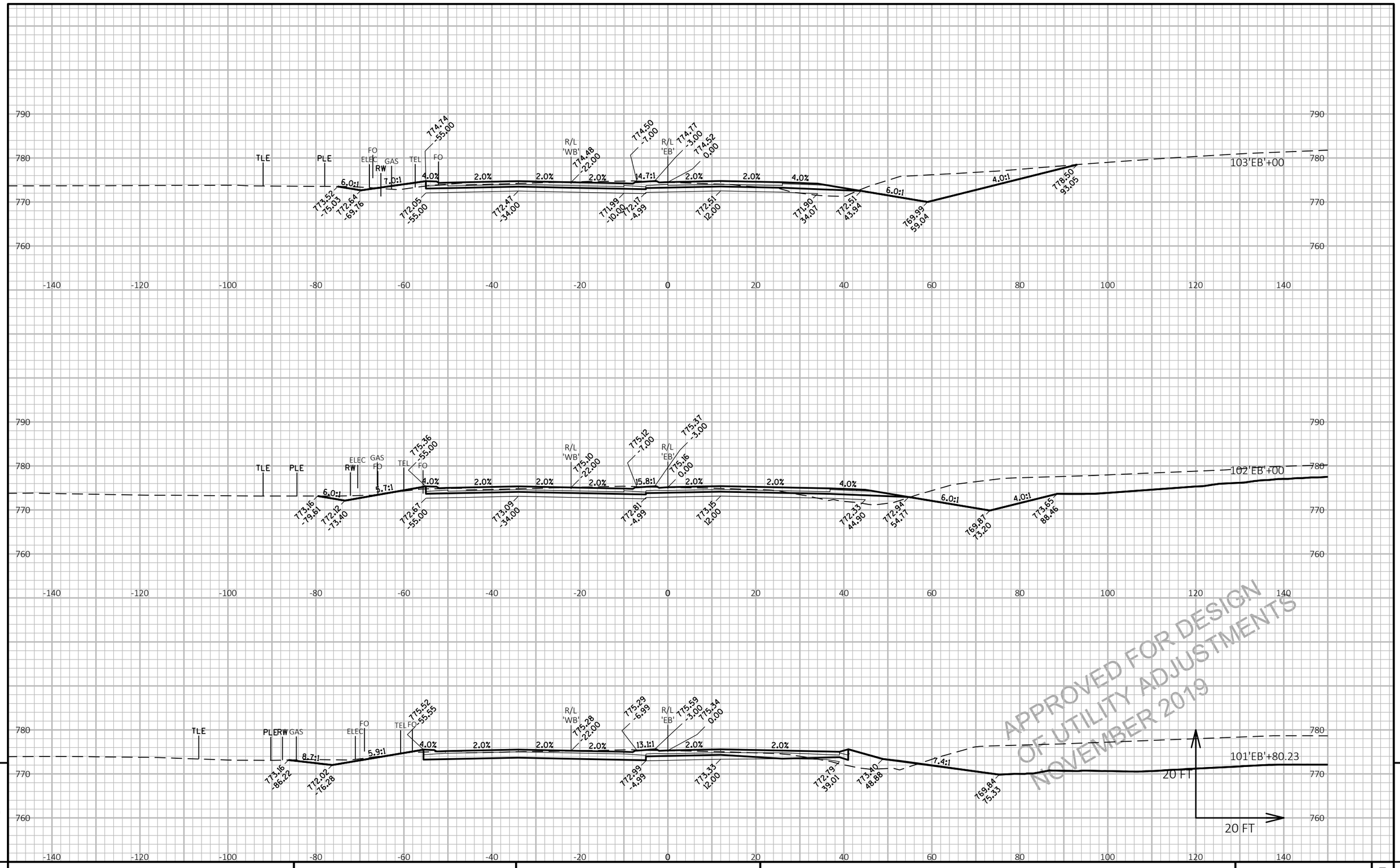
APPROVED FOR DESIGN & UTILITY ADJUSTMENTS NOVEMBER 2019

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018 DATE
/S/ Andrew Heldtke WORK ZONE
FHWA

PRE_269



PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E

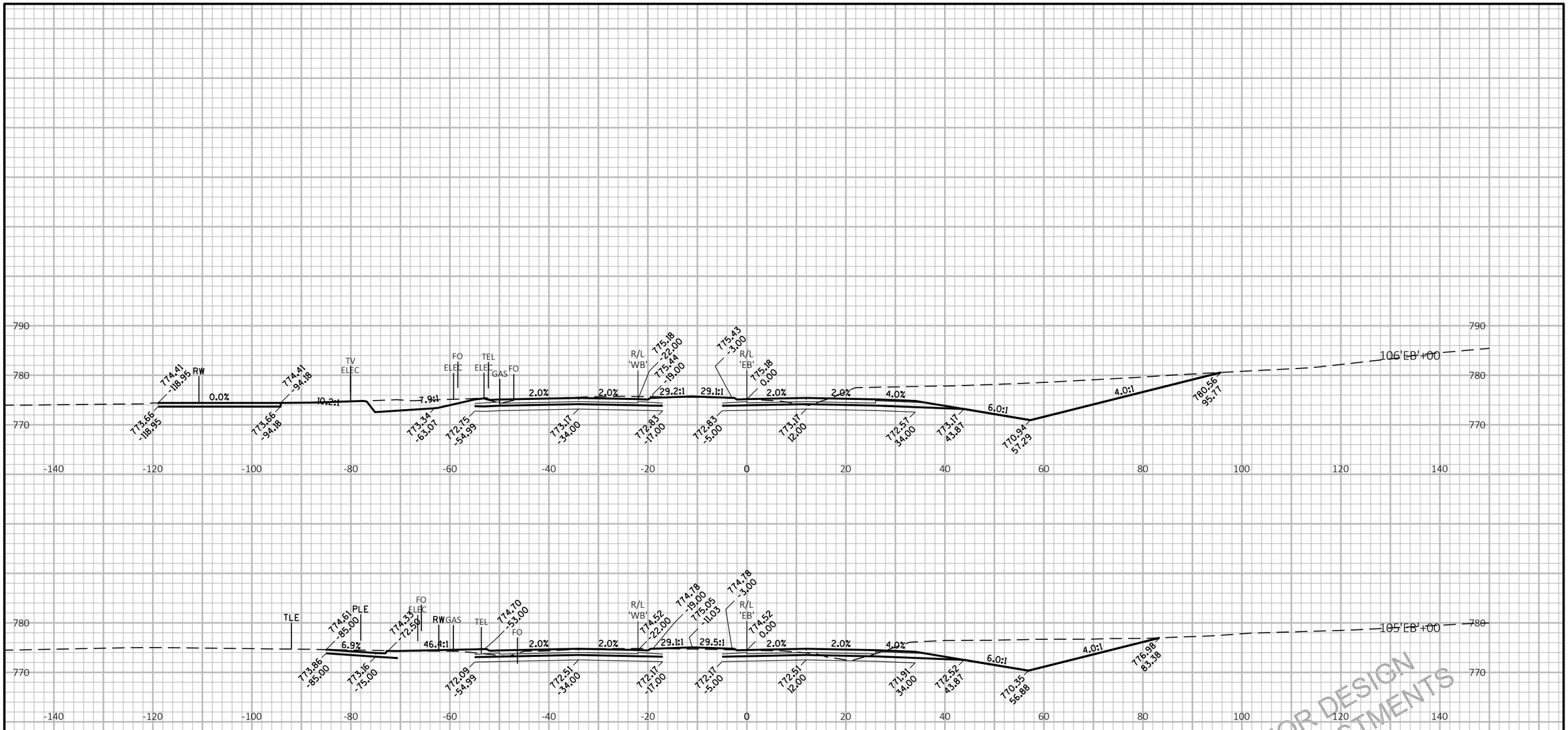
FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(01).DWG
LAYOUT NAME - 090201_xs(01)

PLOT DATE : 11/7/2019 9:00 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_270

WISDOT/CADDS SHEET 49

9 9



APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

9

9

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E

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LAYOUT NAME - 090202_xs(01)

PLOT DATE : 11/7/2019 9:00 AM

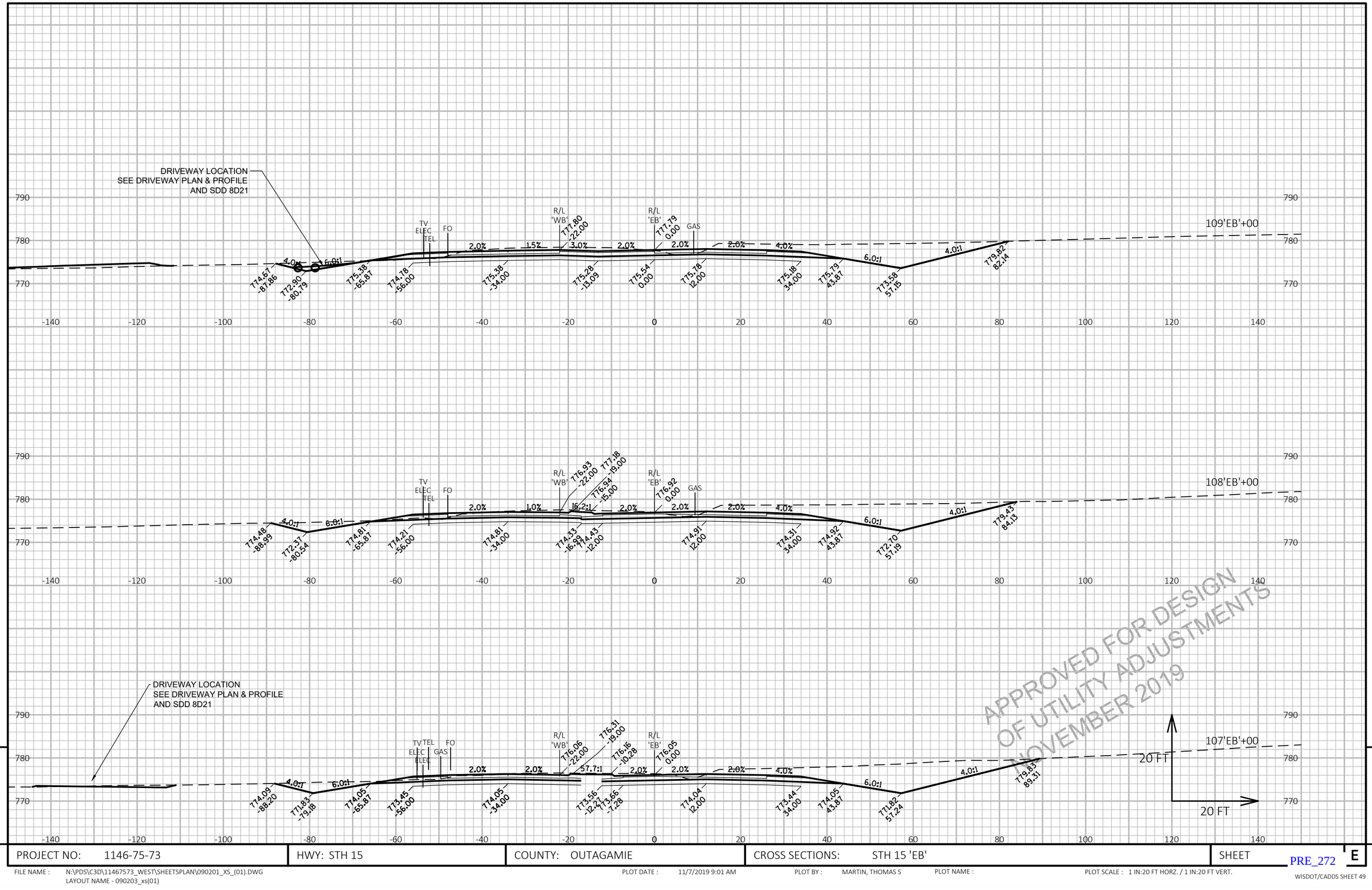
PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_271

WISDOT/CADDS SHEET 49



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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(01).DWG
LAYOUT NAME - 090203_xs(01)

PLOT DATE : 11/7/2019 9:01 AM

PLOT BY : MARTIN, THOMAS S

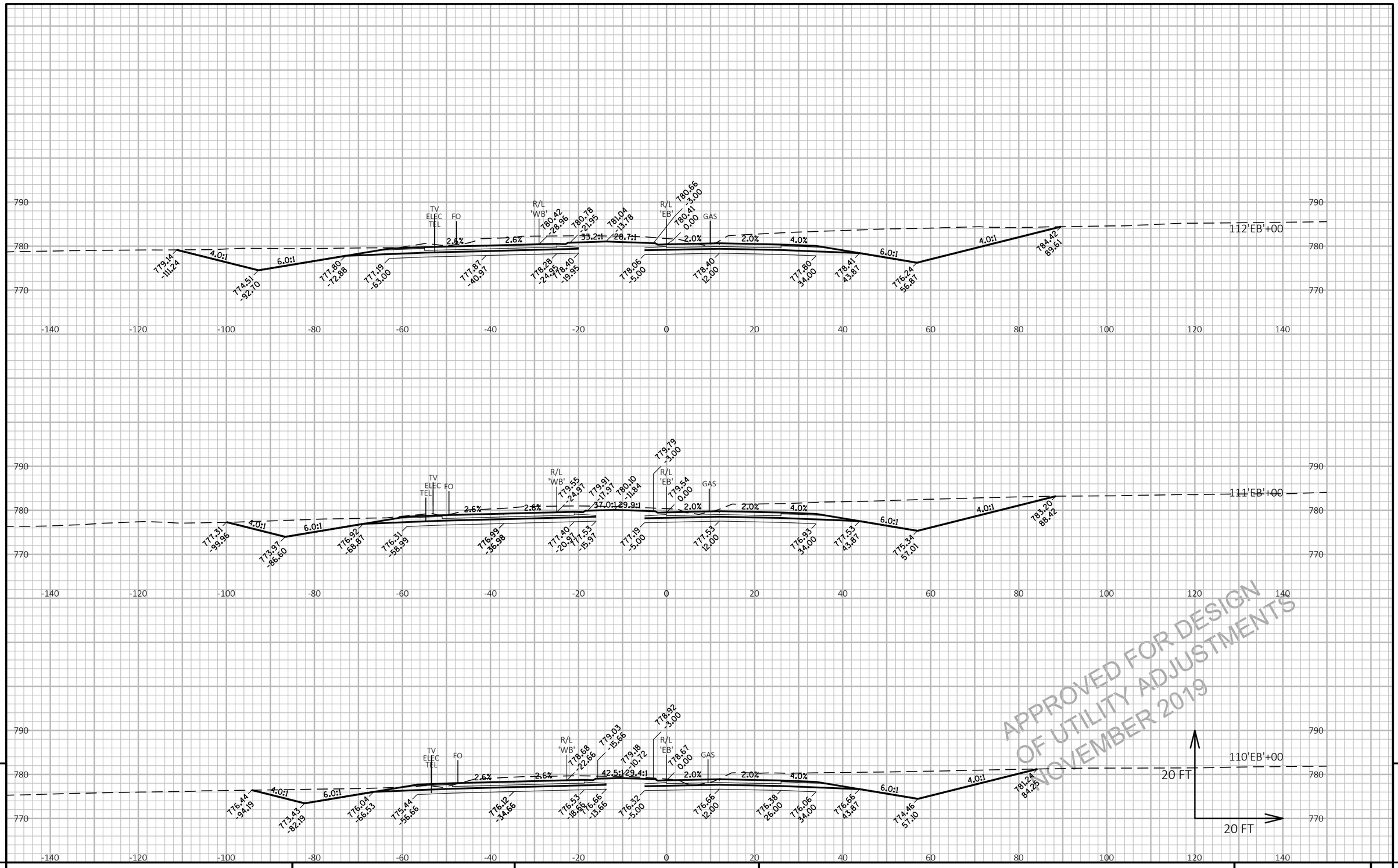
PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_272

WISDOT/CADDS SHEET 49

9



PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(01).DWG
LAYOUT NAME - 090204_xs(01)

PLOT DATE : 11/7/2019 9:01 AM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

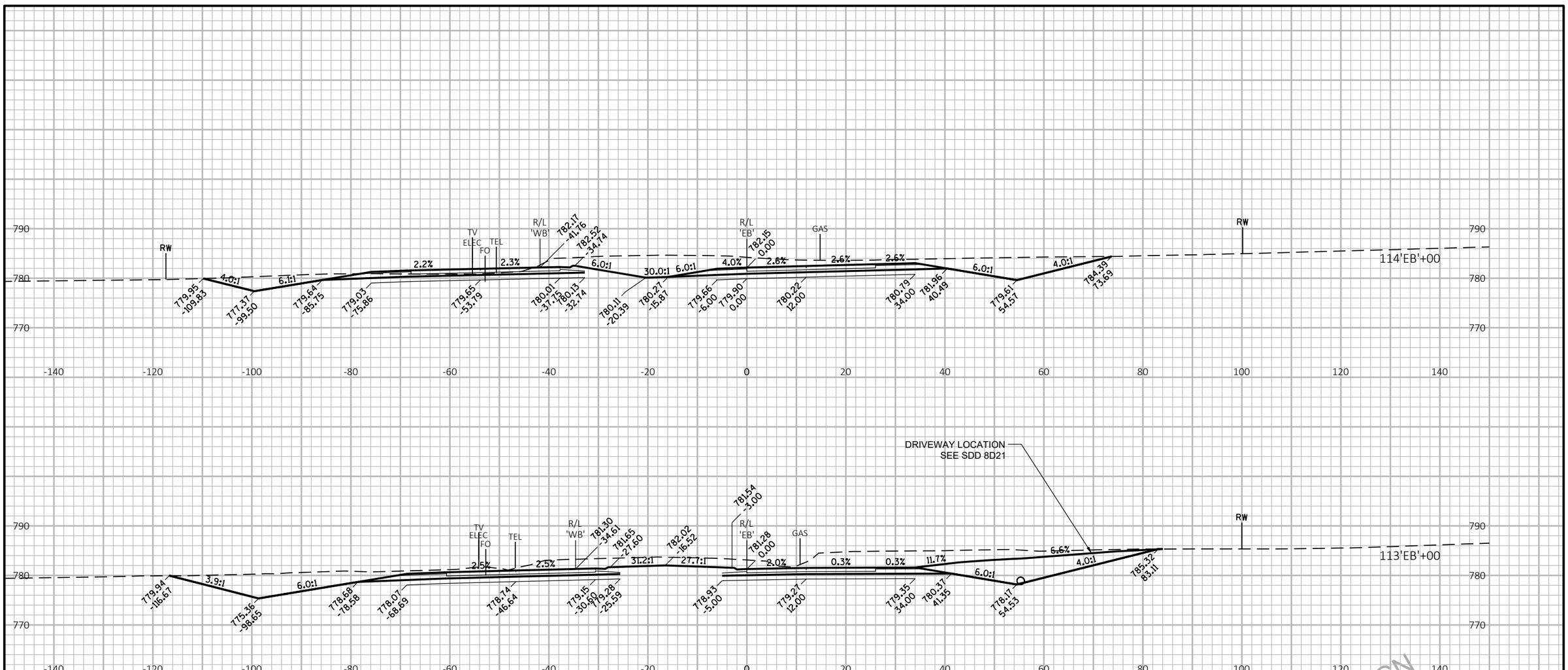
PRE_273

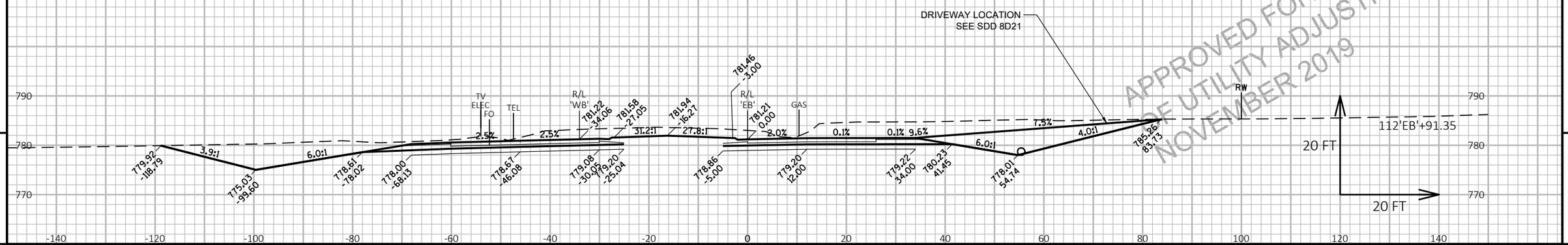
E

WISDOT/CADDS SHEET 49

9

9





APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E

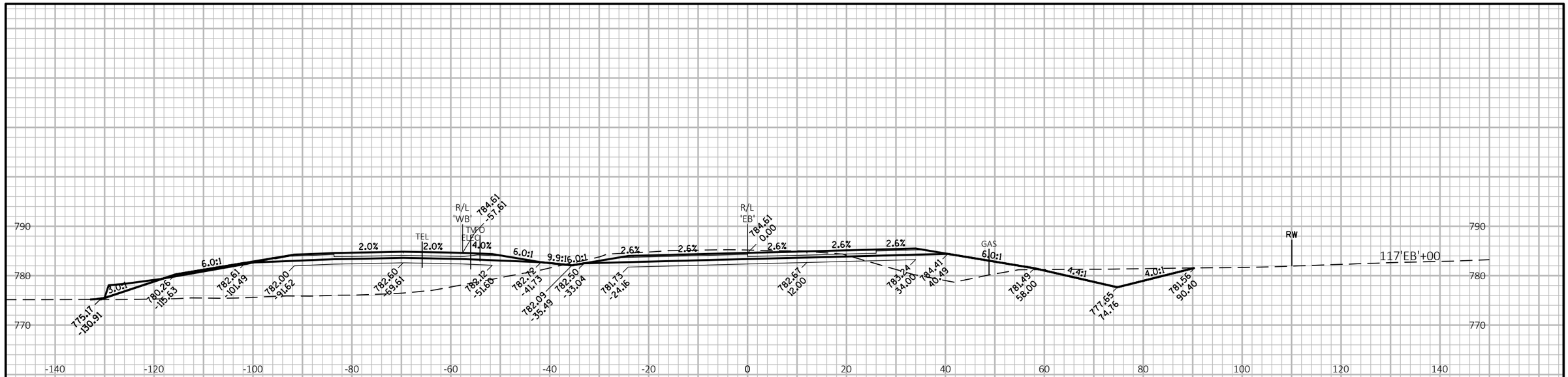
FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(01).DWG
LAYOUT NAME - 090205_xs(01)

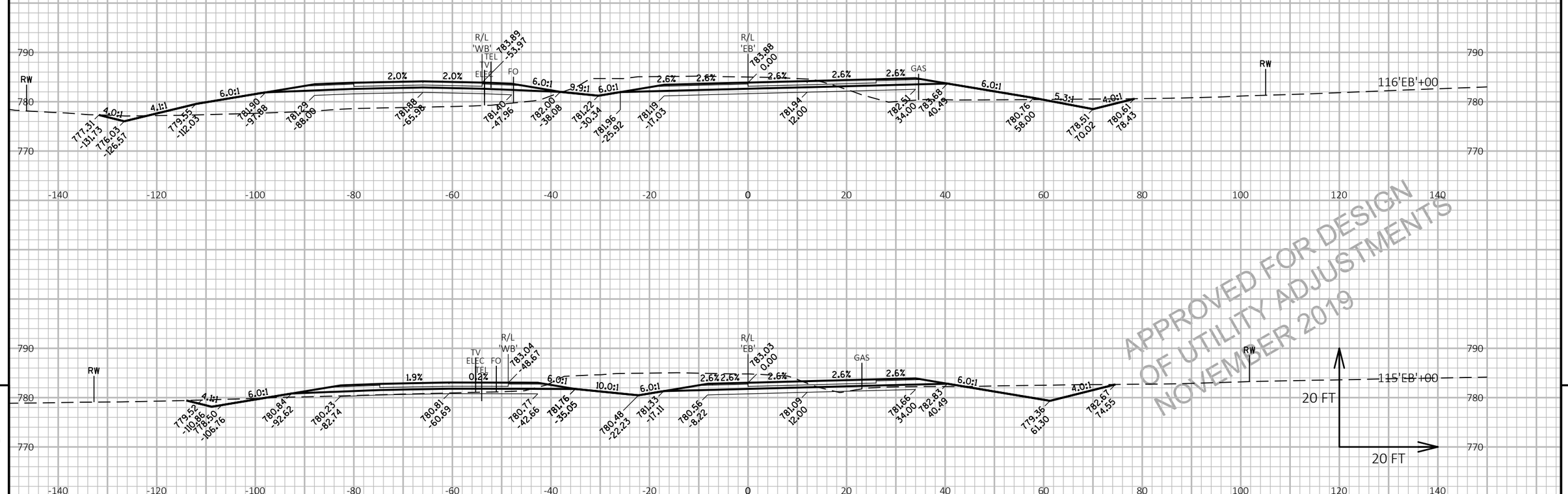
PLOT DATE : 11/7/2019 9:01 AM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.





APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

9 9

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E

PRE_275

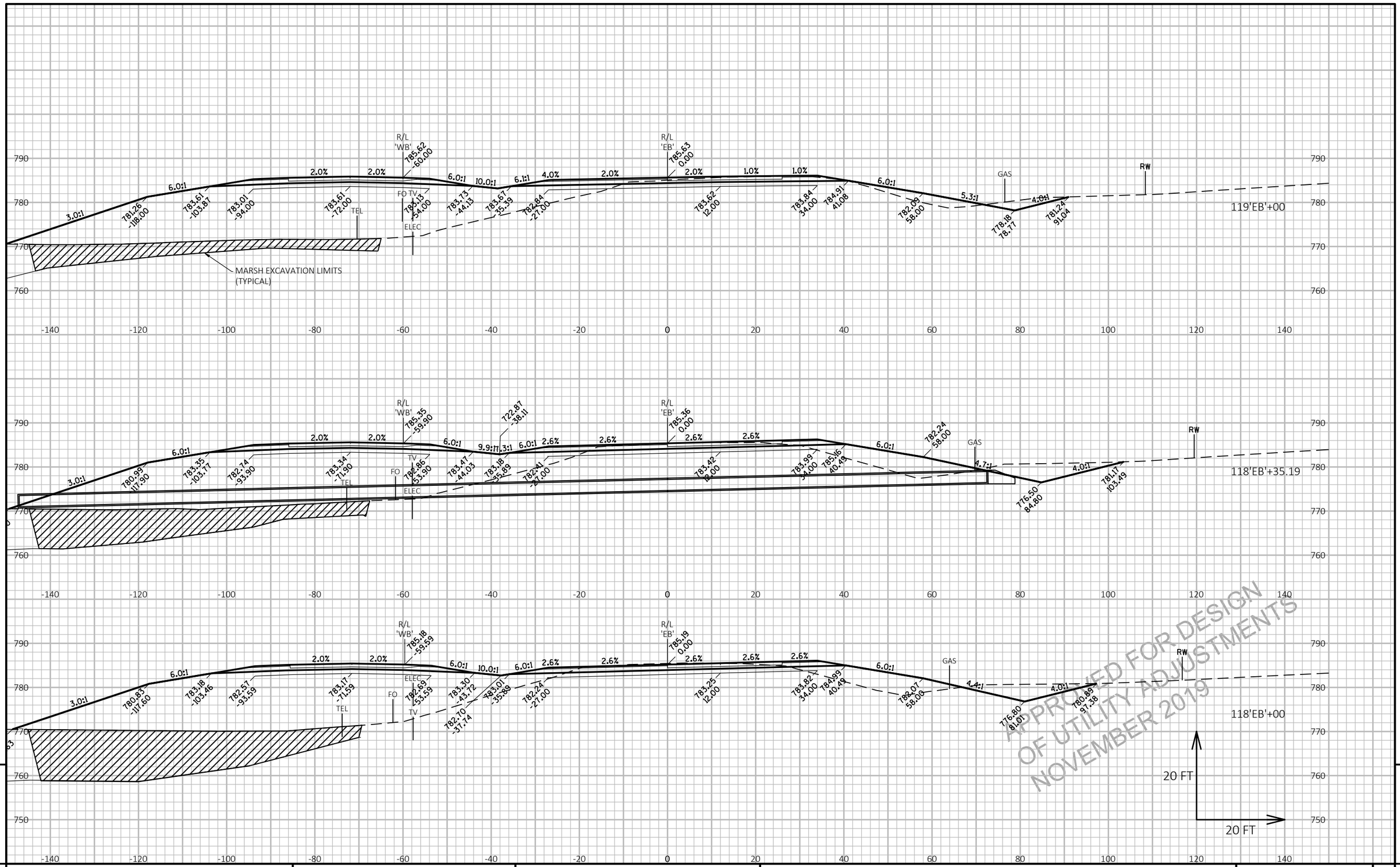
FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(01).DWG
LAYOUT NAME - 090206_xs(01)

PLOT DATE : 11/7/2019 9:01 AM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET

PRE_276

E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(01).DWG
LAYOUT NAME - 090207_xs(01)

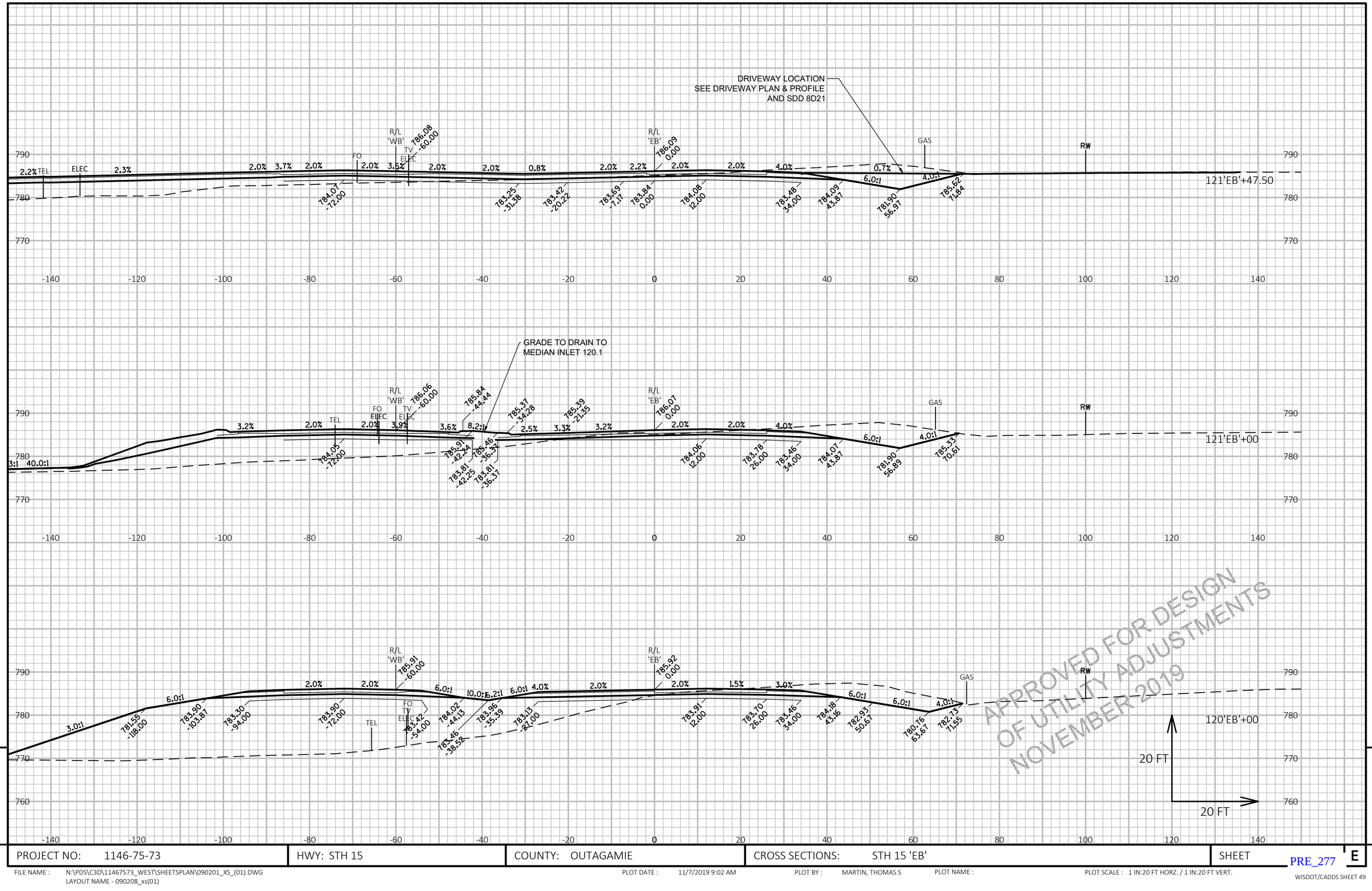
PLOT DATE : 11/7/2019 9:02 AM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(01).DWG
LAYOUT NAME - 090208_xs(01)

PLOT DATE : 11/7/2019 9:02 AM

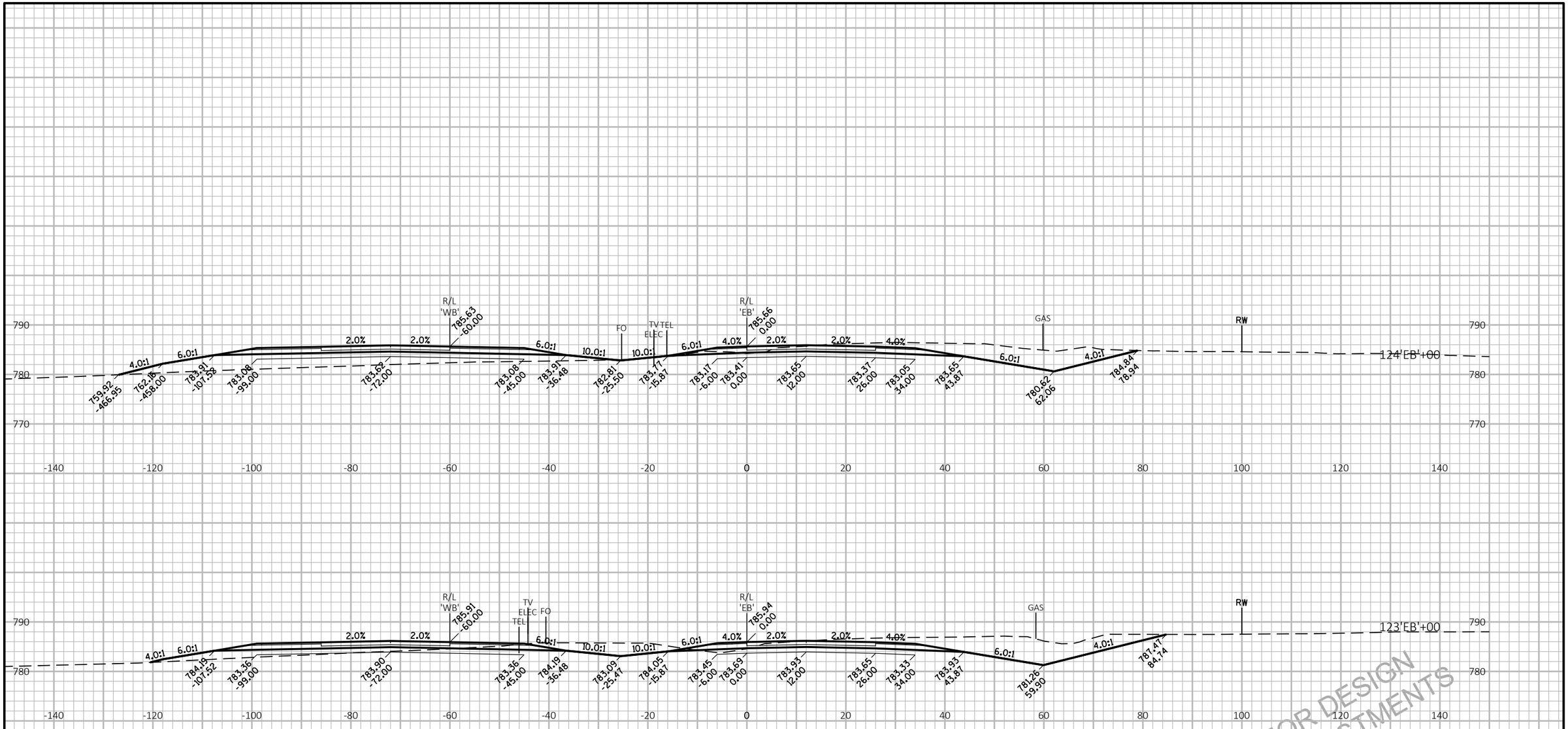
PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_277

WISDOT/CADDS SHEET 49



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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(01).DWG
LAYOUT NAME - 090209_xs(01)

PLOT DATE : 11/7/2019 9:02 AM

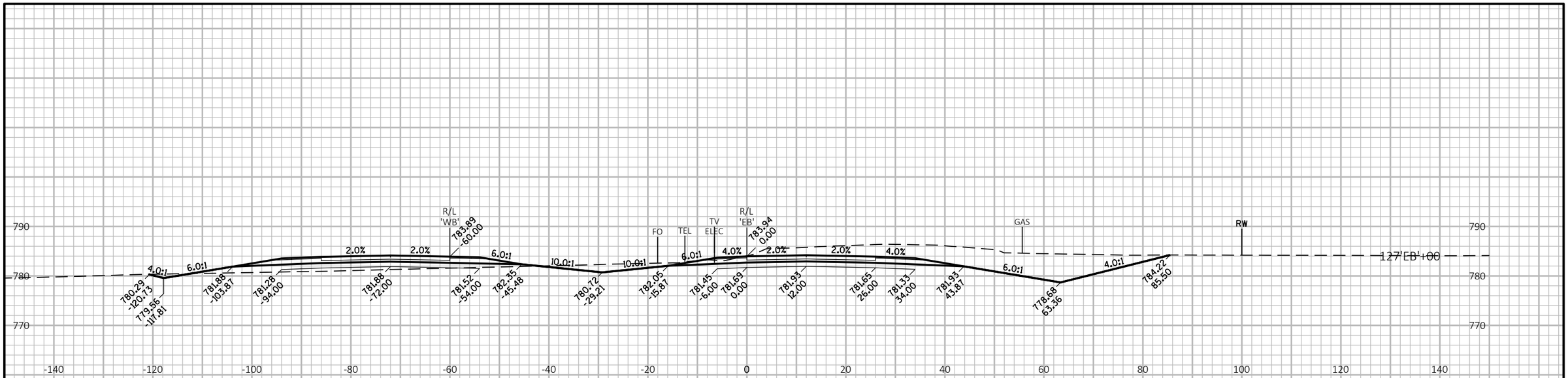
PLOT BY : MARTIN, THOMAS S

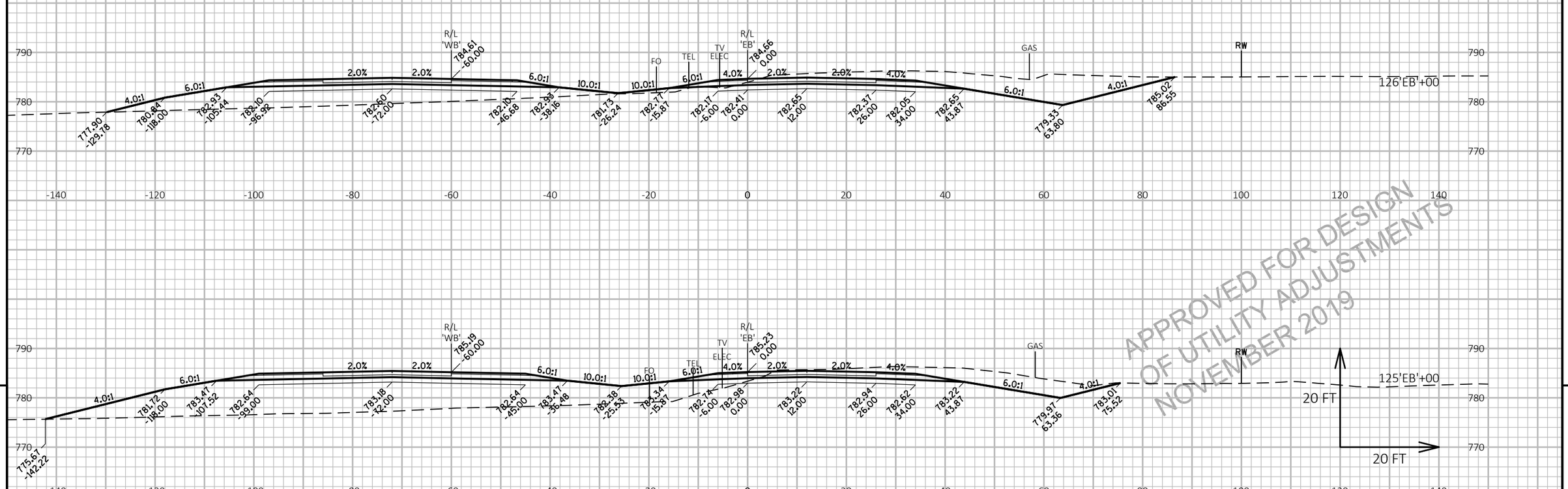
PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_278

WISDOT/CADDS SHEET 49





APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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9

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(01).DWG
LAYOUT NAME - 090210_xs(01)

PLOT DATE : 11/7/2019 9:03 AM

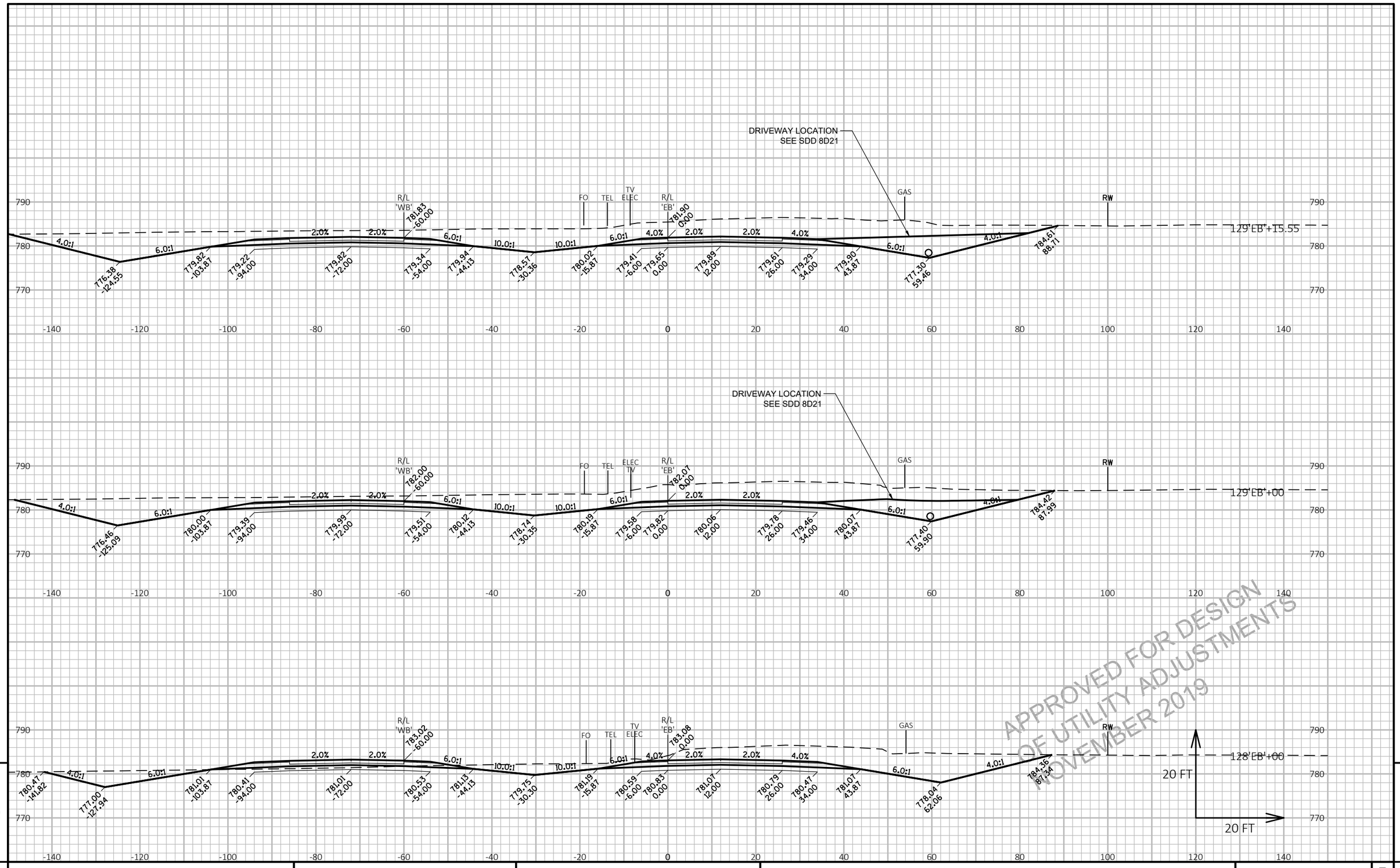
PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_279

WISDOT/CADDS SHEET 49



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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E

PRE_280

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(01).DWG
LAYOUT NAME - 090211_xs(01)

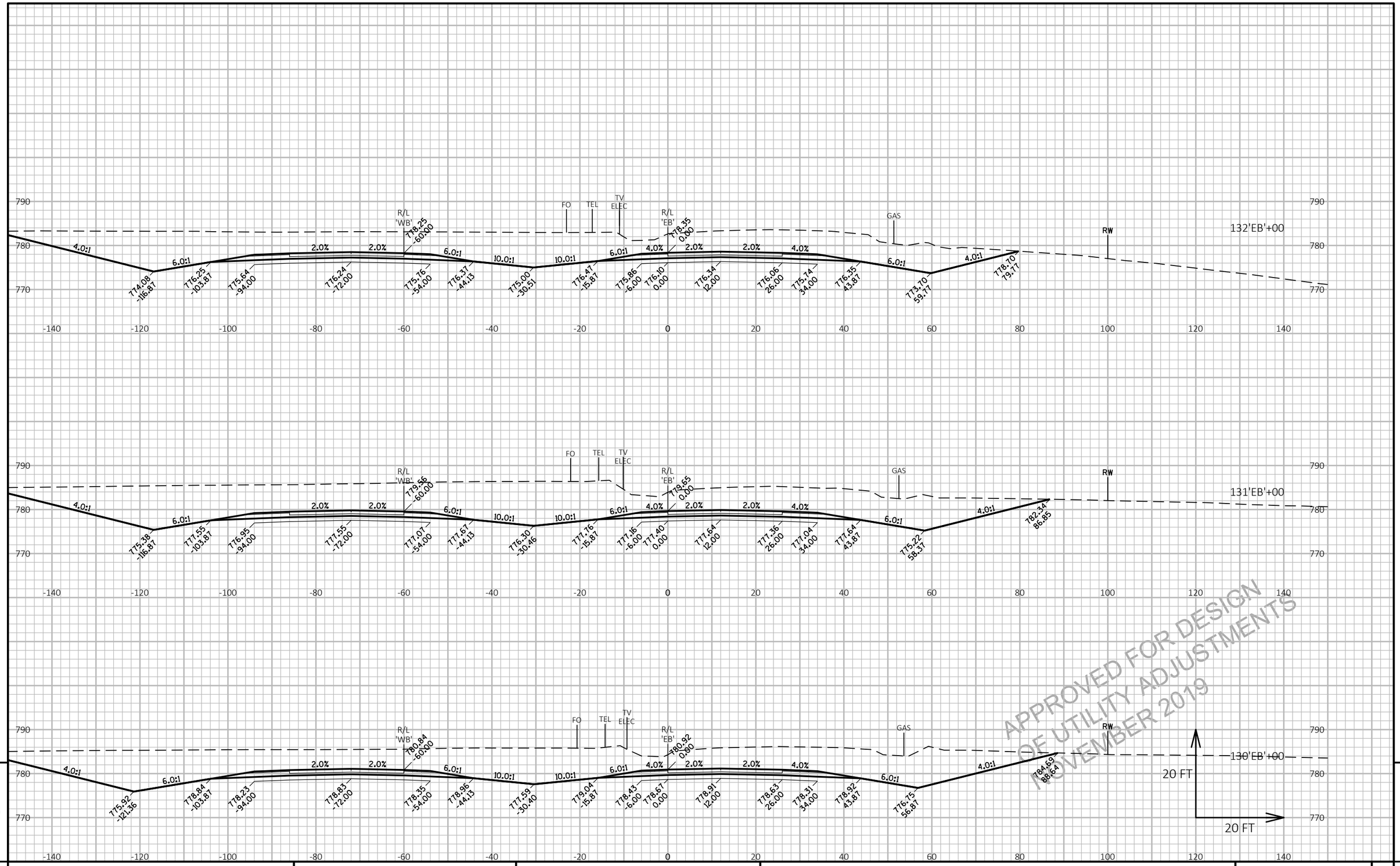
PLOT DATE : 11/7/2019 9:03 AM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET

PRE_281

E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(01).DWG
LAYOUT NAME - 090212_xs(01)

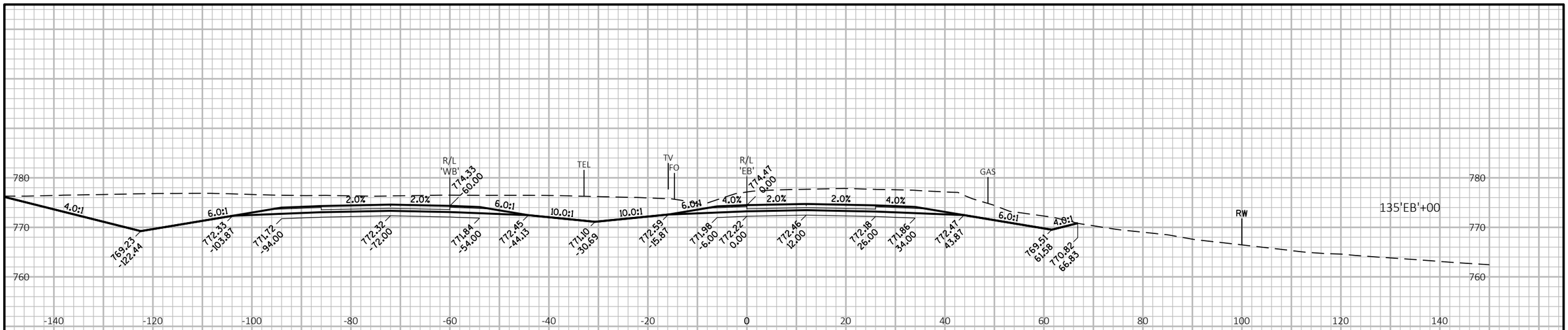
PLOT DATE : 11/7/2019 9:03 AM

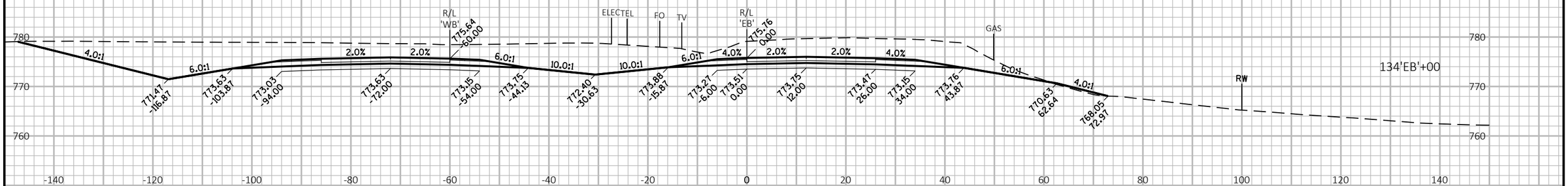
PLOT BY : MARTIN, THOMAS S

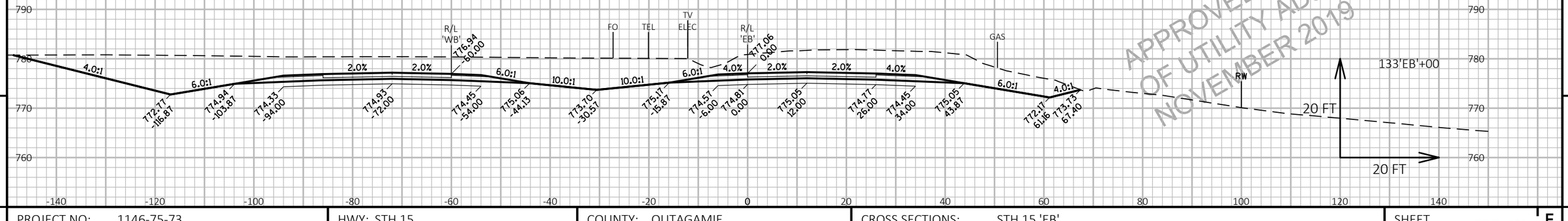
PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49







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OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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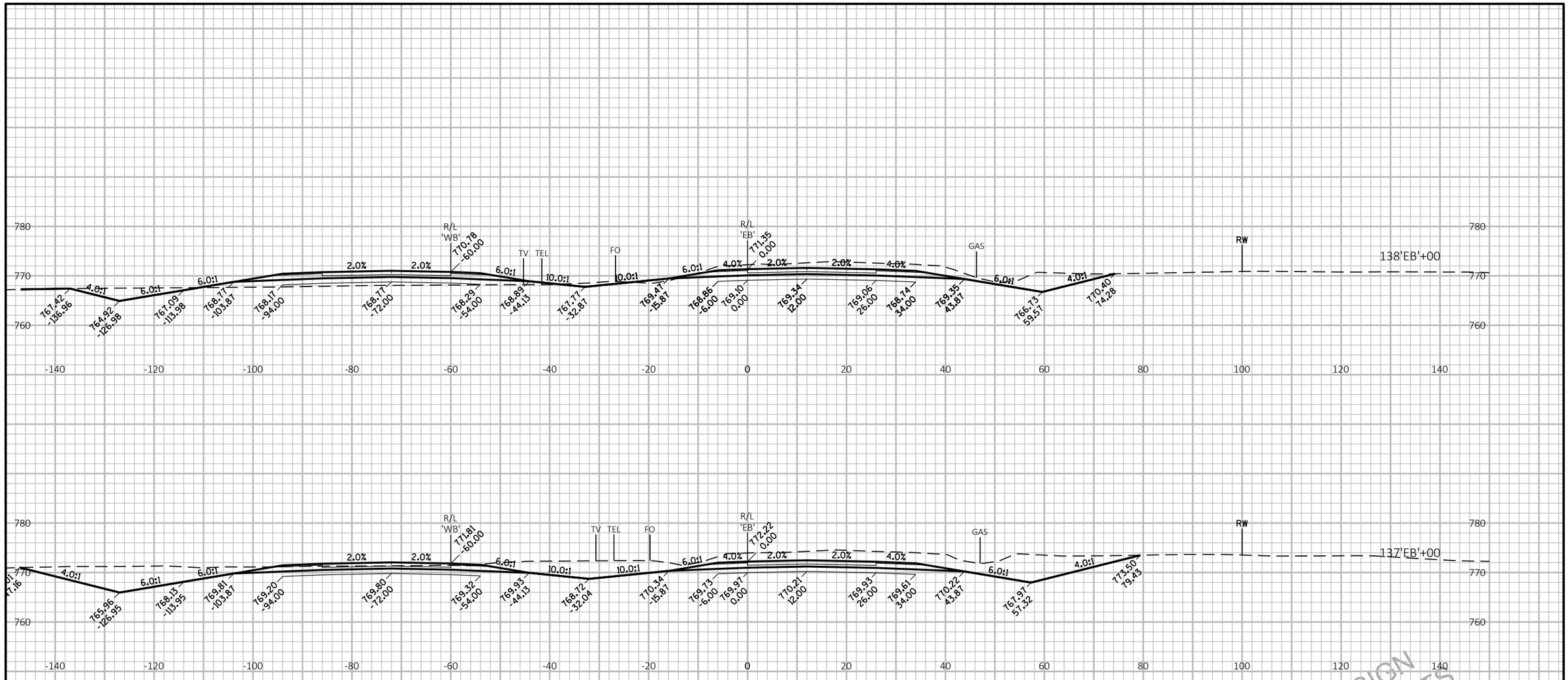
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(01).DWG
LAYOUT NAME - 090213_xs(01)

PLOT DATE : 11/7/2019 9:04 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_282

WISDOT/CADDS SHEET 49



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OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET

PRE_283 E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(01).DWG
LAYOUT NAME - 090214_xs(01)

PLOT DATE : 11/7/2019 9:04 AM

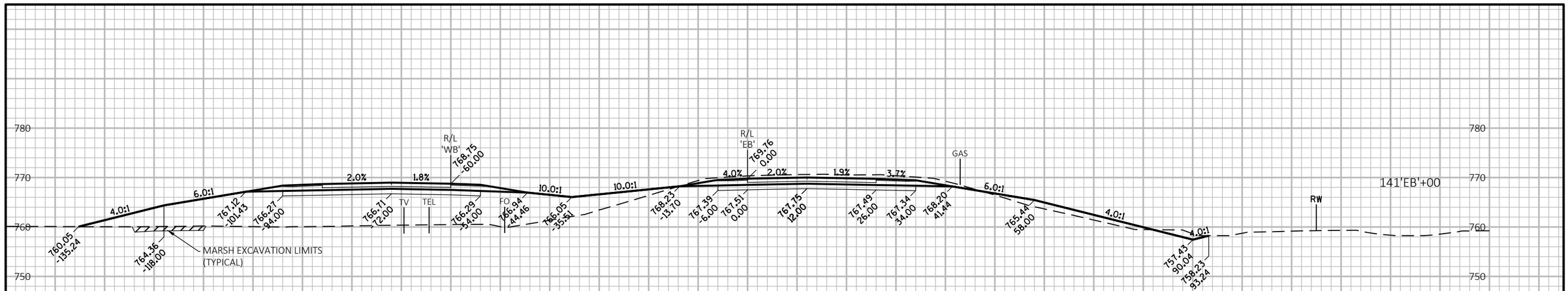
PLOT BY : MARTIN, THOMAS S

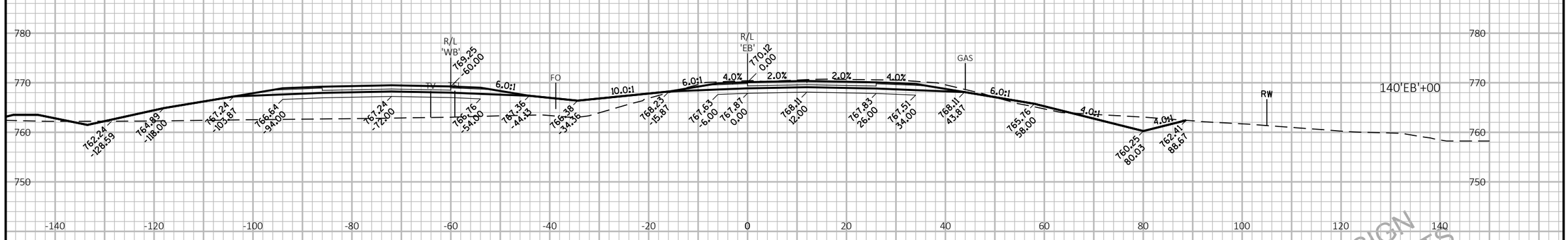
PLOT NAME :

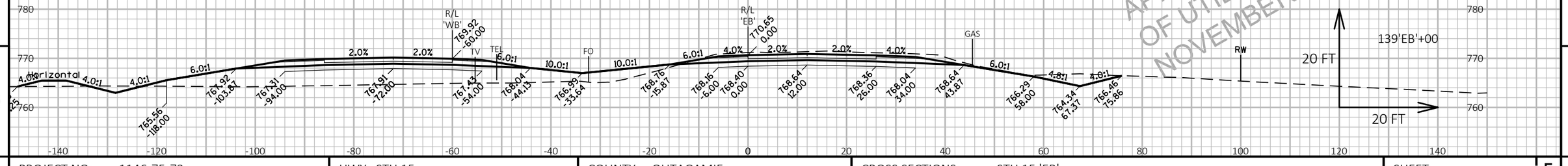
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

9







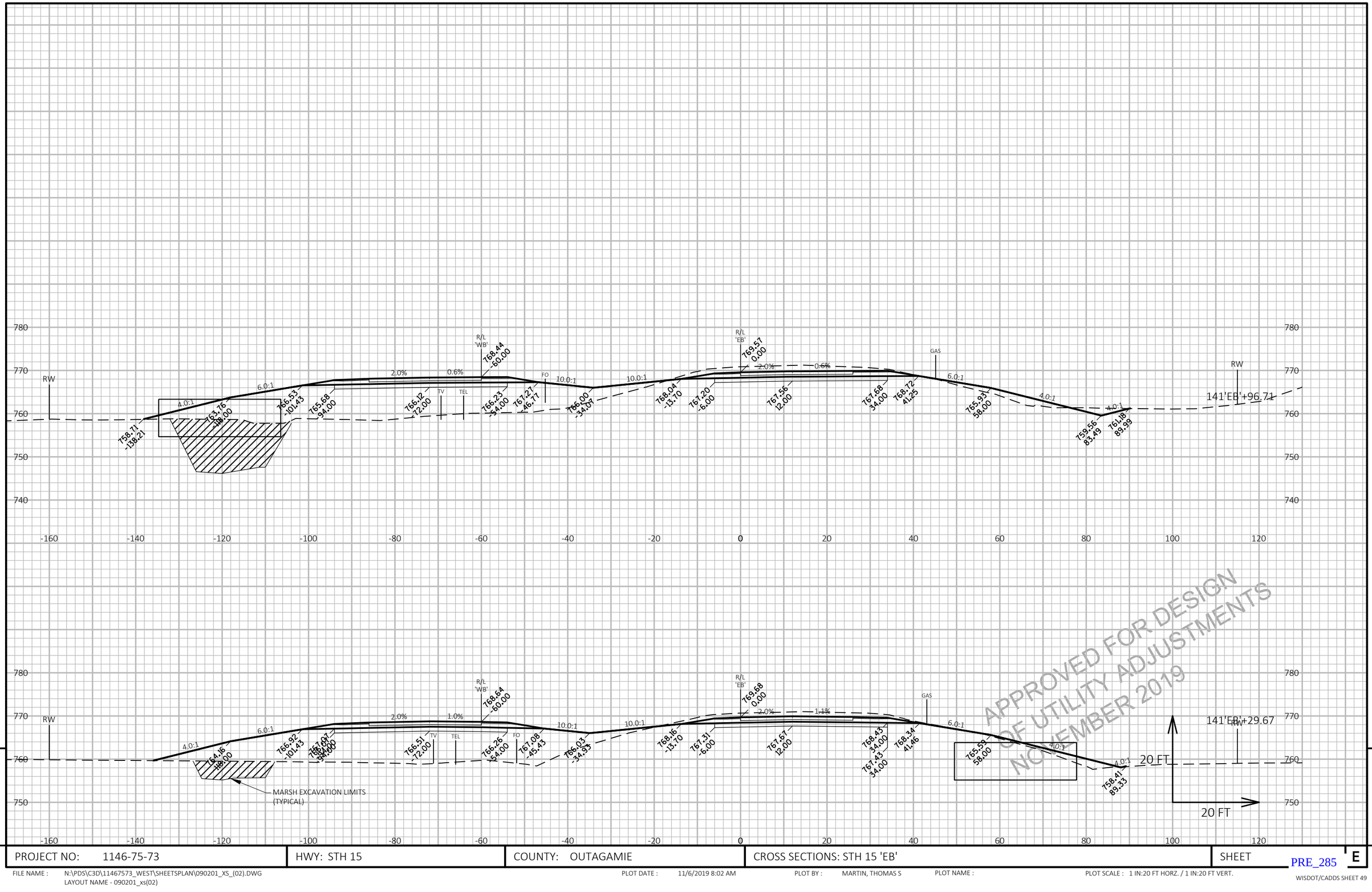
APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(01).DWG
LAYOUT NAME - 090215_xs(01)

PLOT DATE : 11/7/2019 9:04 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_284



APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(02).DWG
LAYOUT NAME - 090201_xs(02)

PLOT DATE : 11/6/2019 8:02 AM

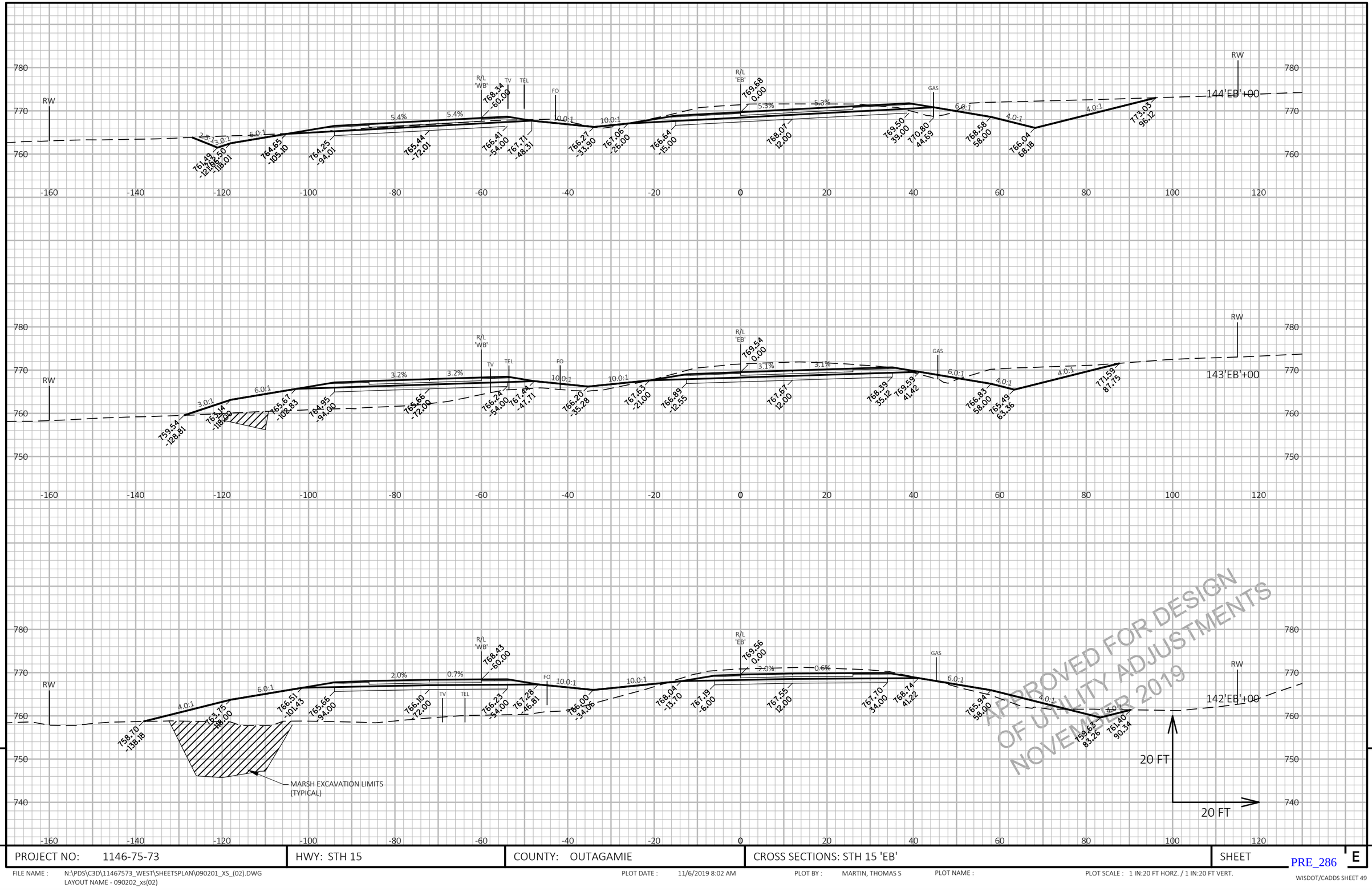
PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_285

WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E

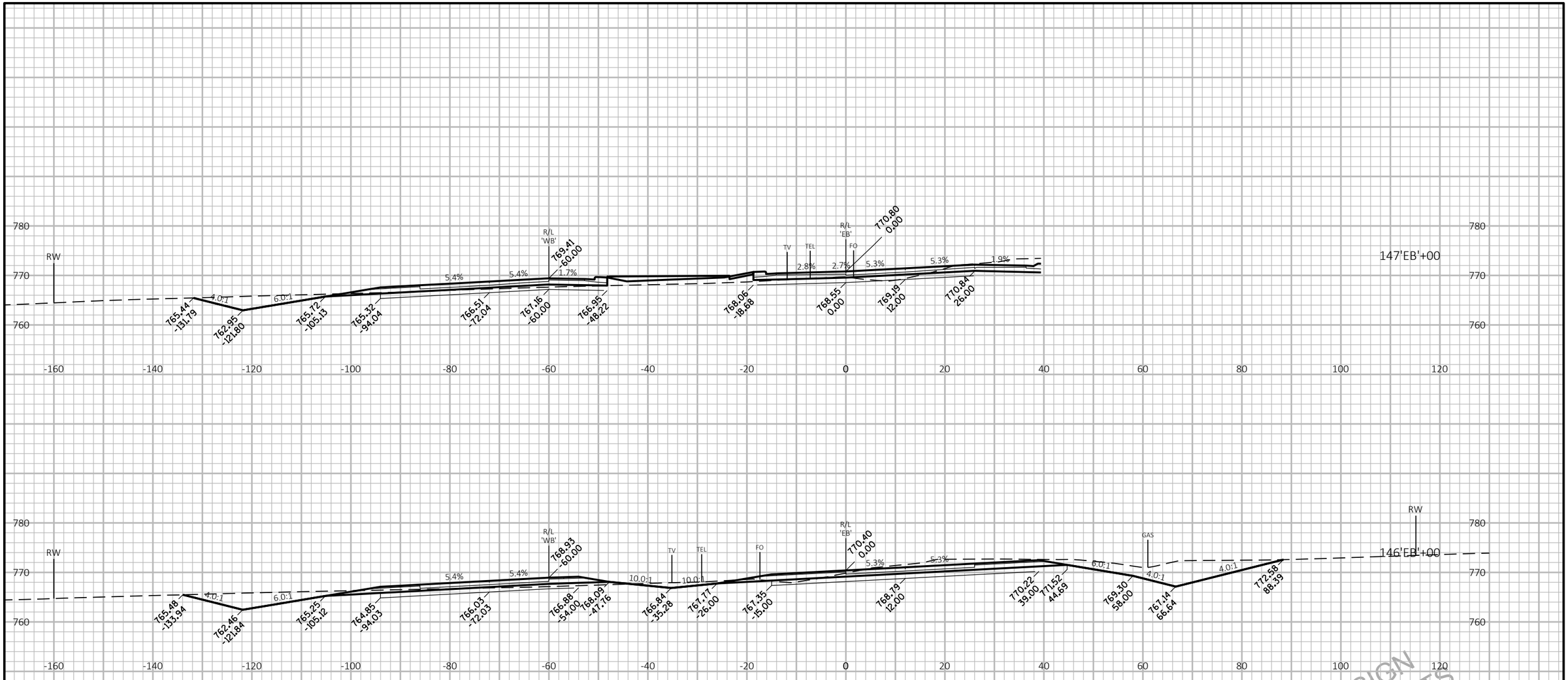
FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(02).DWG
LAYOUT NAME - 090202_xs(02)

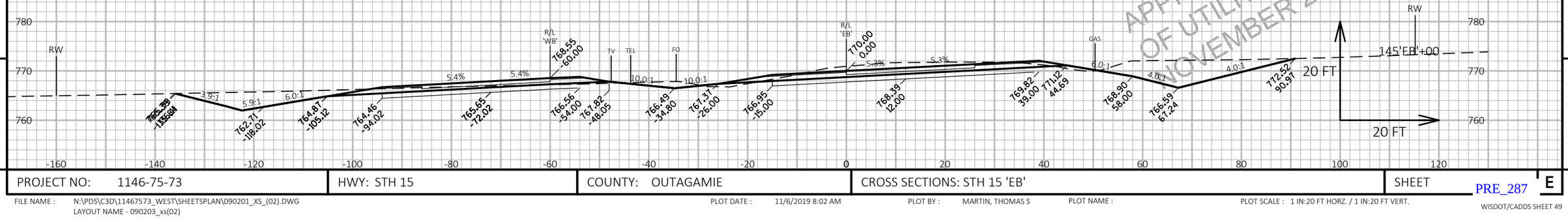
PLOT DATE : 11/6/2019 8:02 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_286

WISDOT/CADDS SHEET 49

9 9





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OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET

PRE_287

E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(02).DWG
LAYOUT NAME - 090203_xs(02)

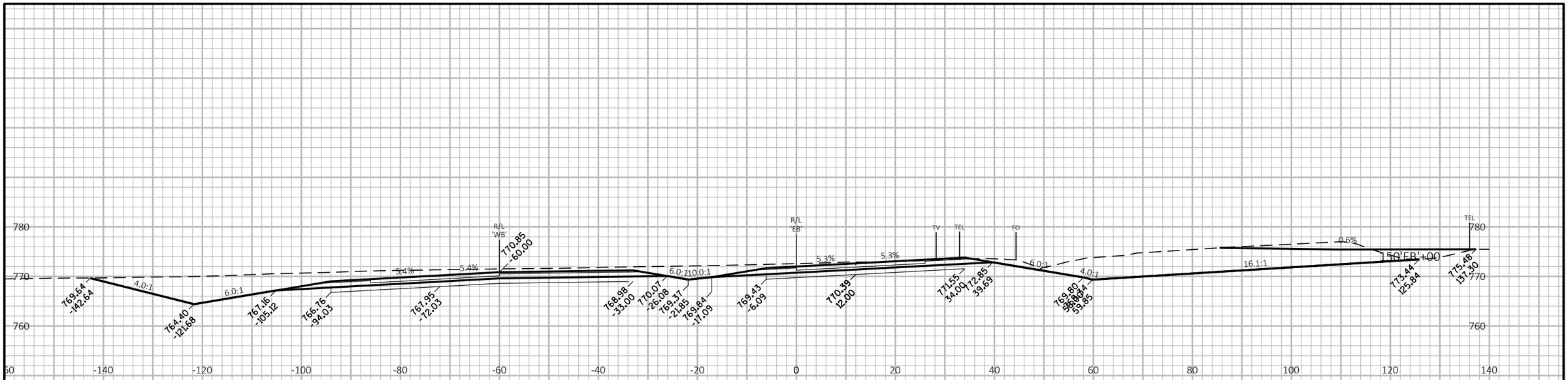
PLOT DATE : 11/6/2019 8:02 AM

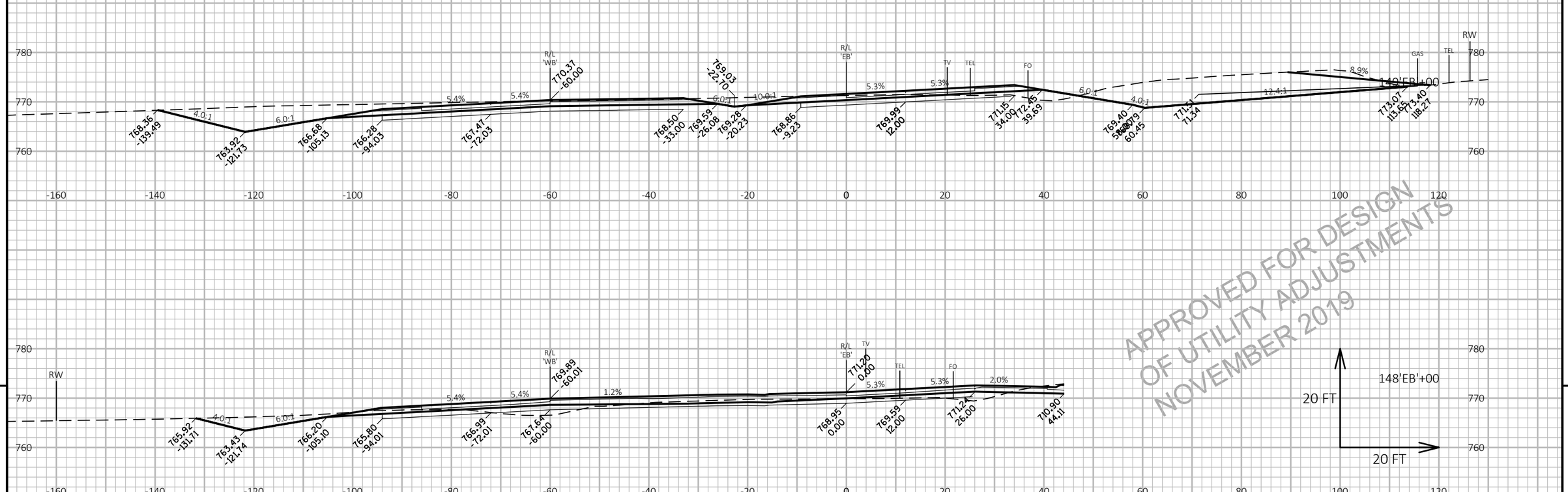
PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49





APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E

PRE_288

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(02).DWG
LAYOUT NAME - 090204_xs(02)

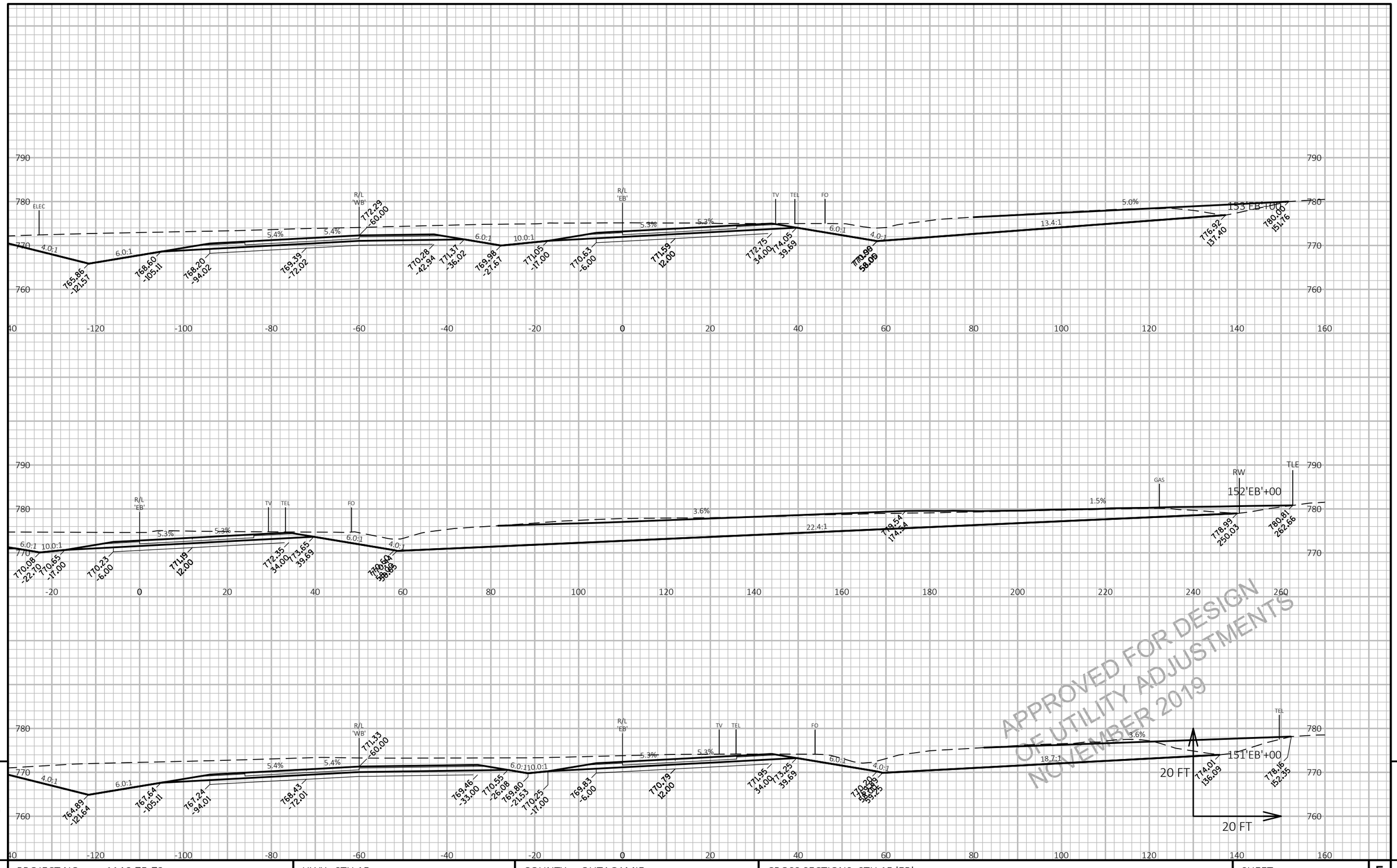
PLOT DATE : 11/6/2019 8:02 AM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E

PRE_289

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(02).DWG
LAYOUT NAME - 090205_xs(02)

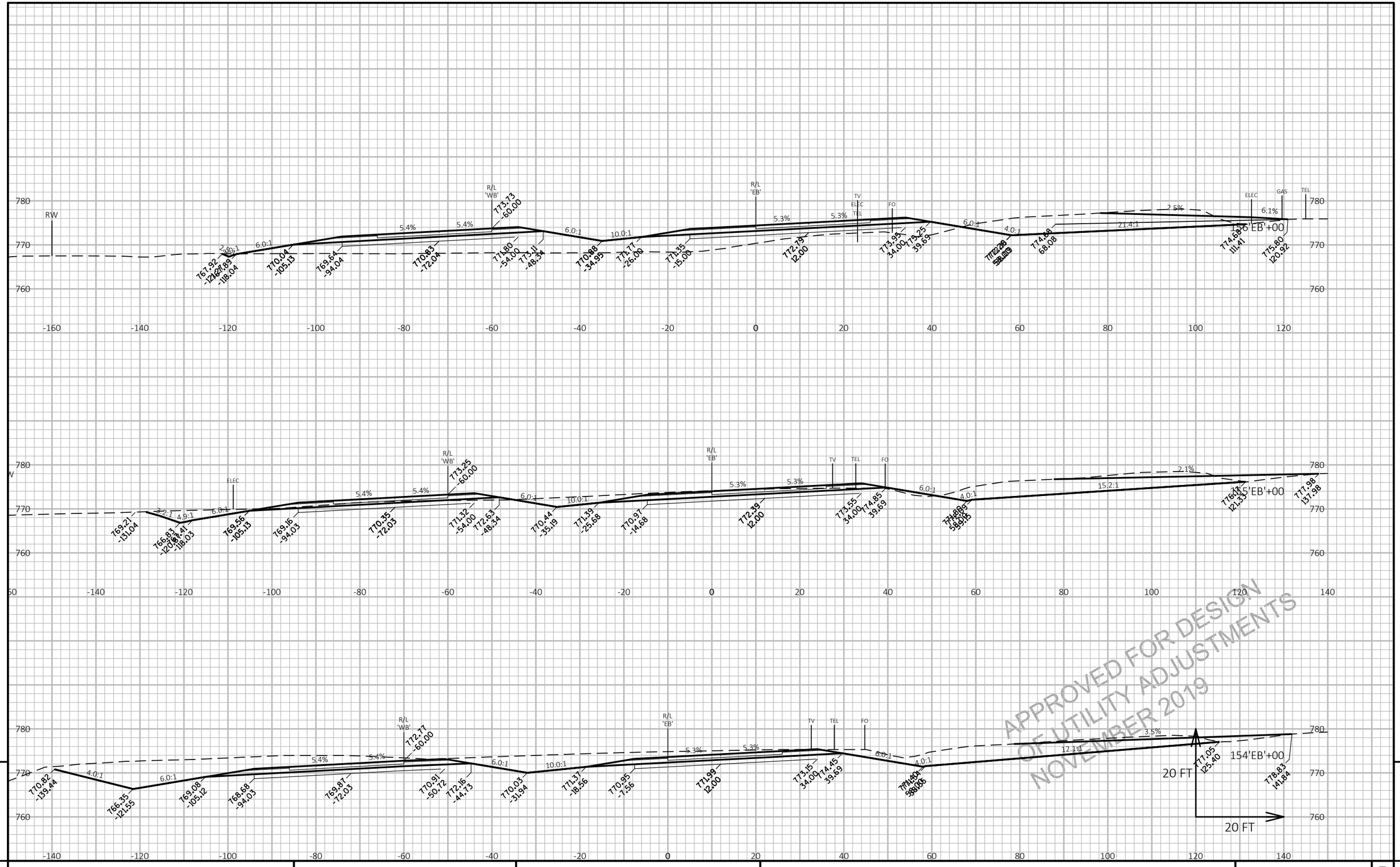
PLOT DATE : 11/6/2019 8:03 AM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E

PRE_290

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(02).DWG
LAYOUT NAME - 090206_xs(02)

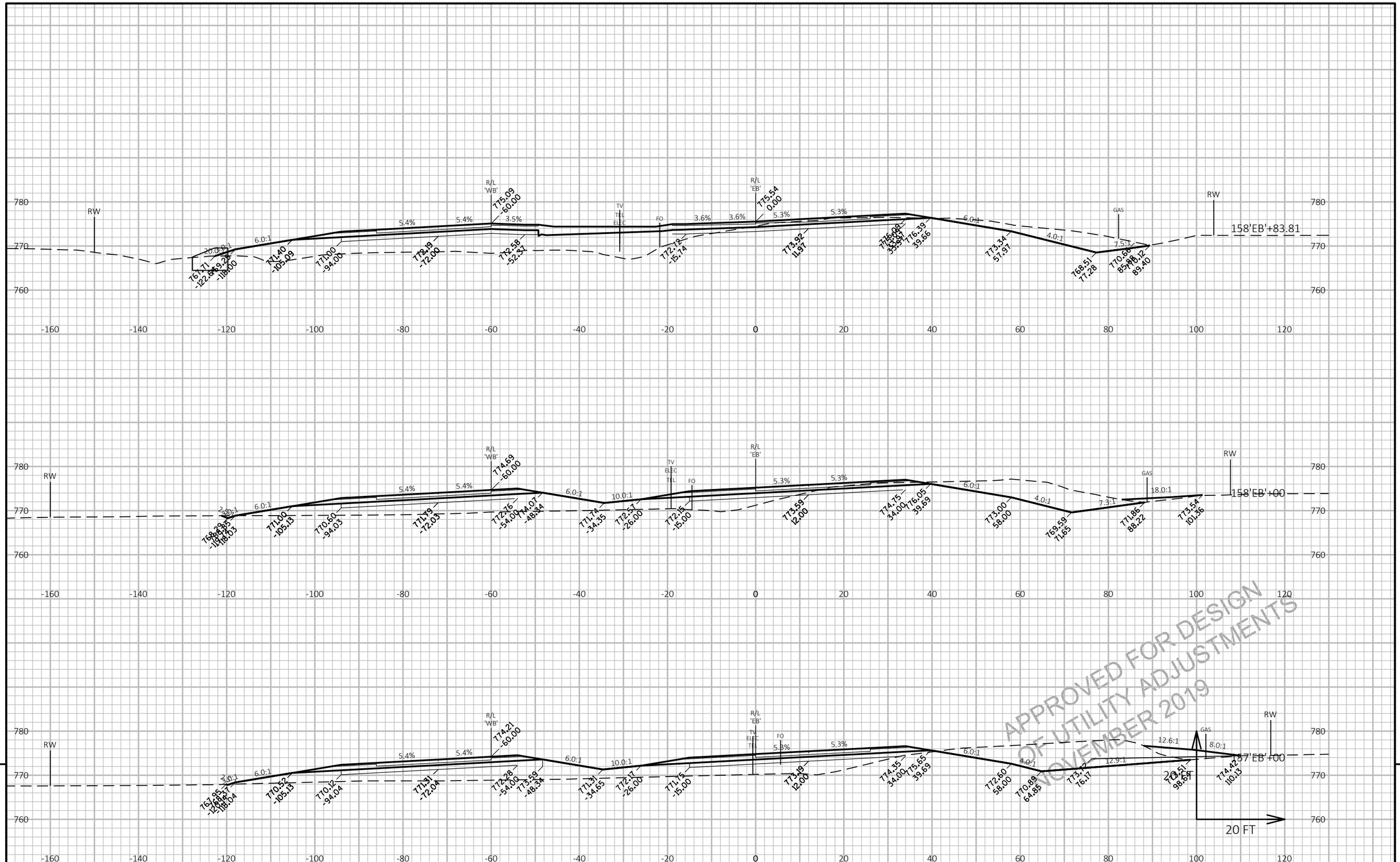
PLOT DATE : 11/6/2019 8:03 AM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

9

9

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(02).DWG
LAYOUT NAME - 090207_xs(02)

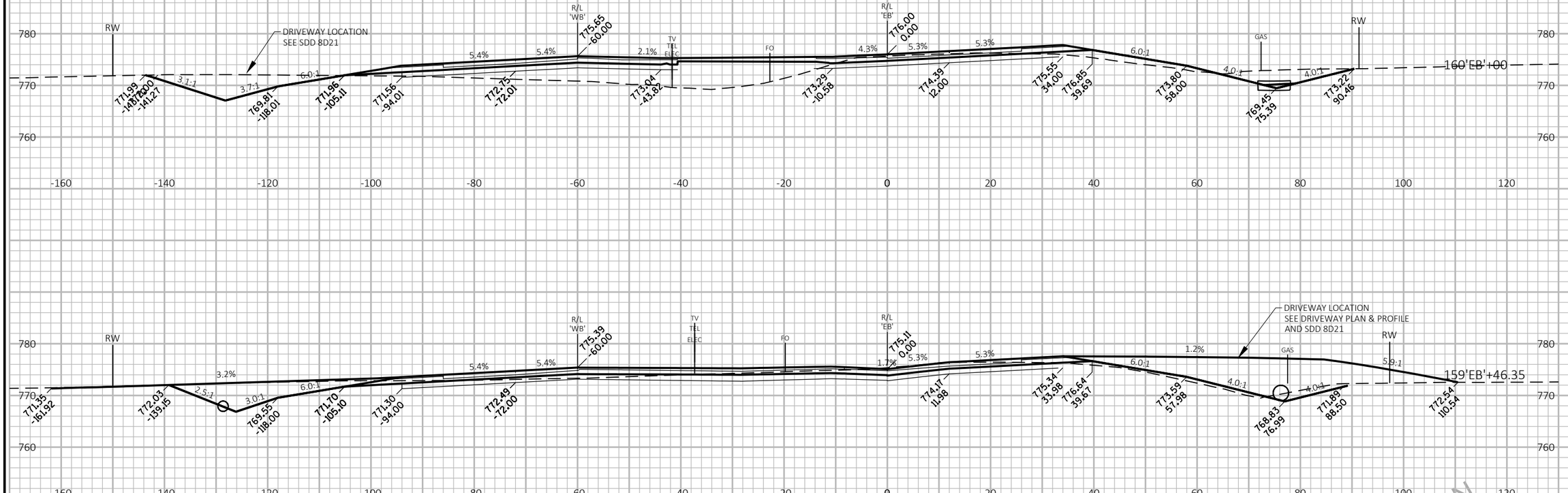
PLOT DATE : 11/6/2019 8:03 AM

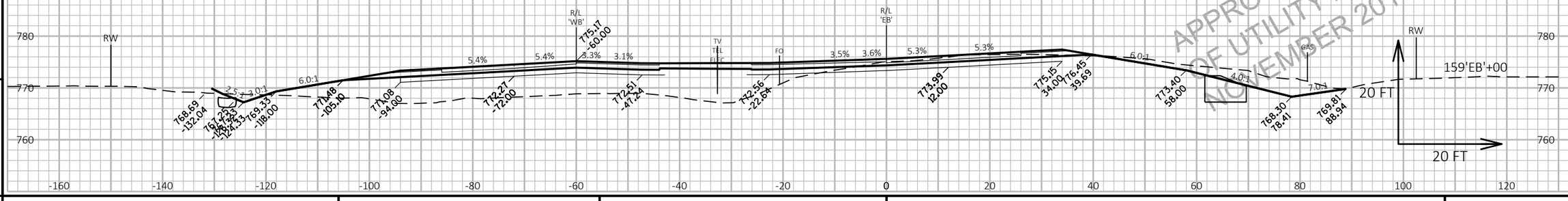
PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49





APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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9

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(02).DWG
LAYOUT NAME - 090208_xs(02)

PLOT DATE : 11/6/2019 8:03 AM

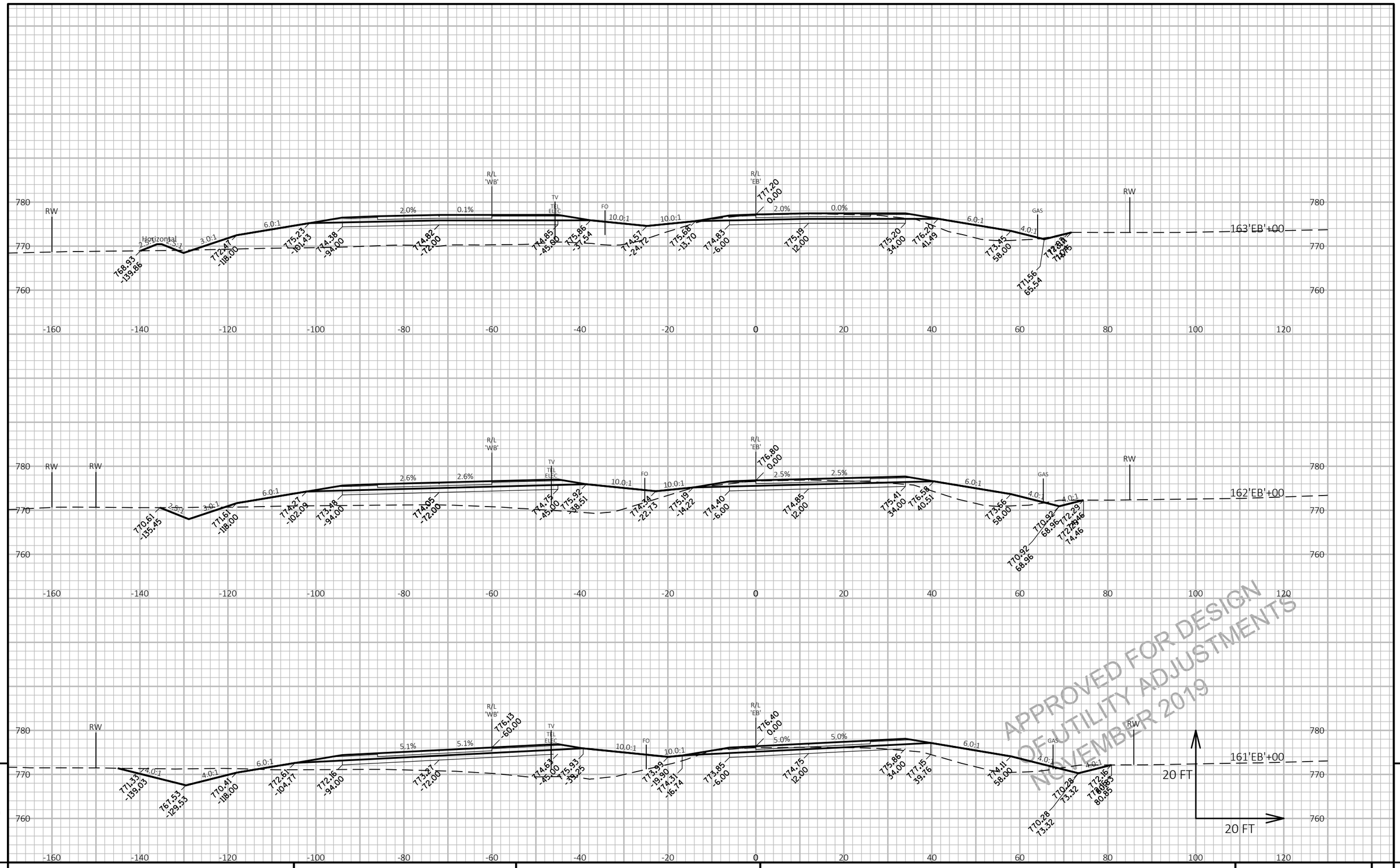
PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_292

WISDOT/CADDS SHEET 49



APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

9

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET

PRE_293

E

9

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(02).DWG
LAYOUT NAME - 090209_xs(02)

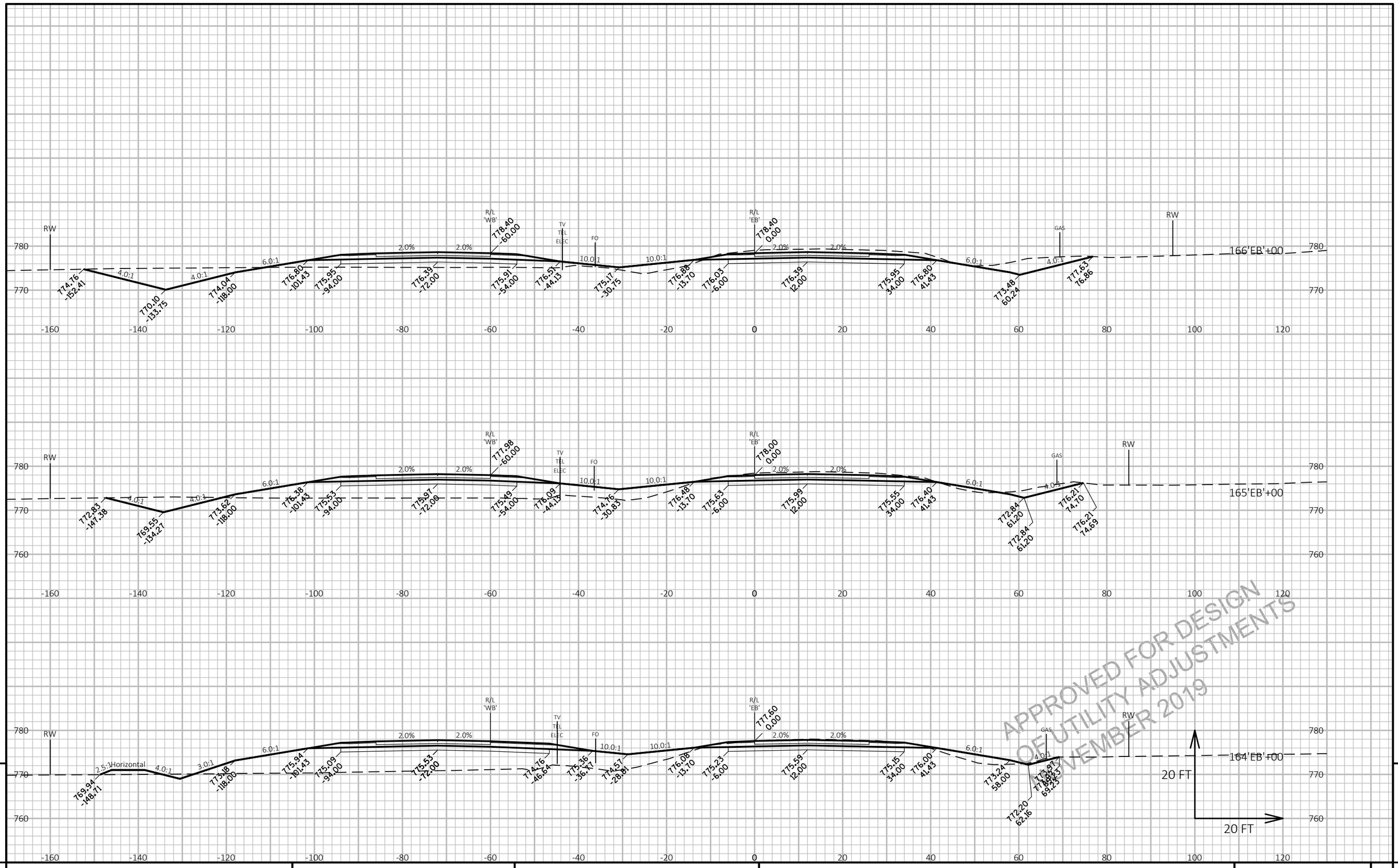
PLOT DATE : 11/6/2019 8:04 AM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

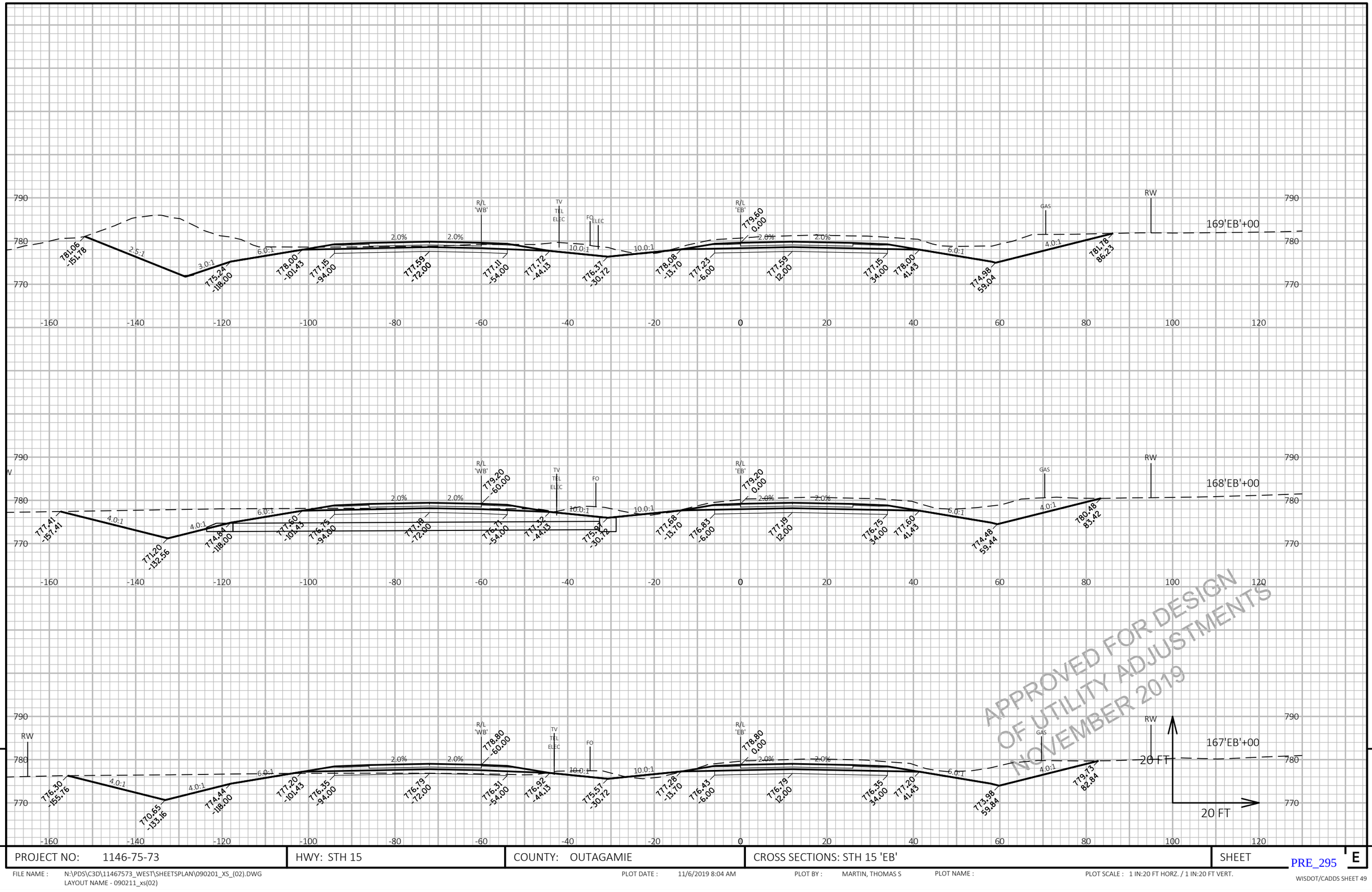
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(02).DWG
LAYOUT NAME - 090210_xs(02)

PLOT DATE : 11/6/2019 8:04 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_294

WISDOT/CADDS SHEET 49



APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

9

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E

PRE_295

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(02).DWG
LAYOUT NAME - 090211_xs(02)

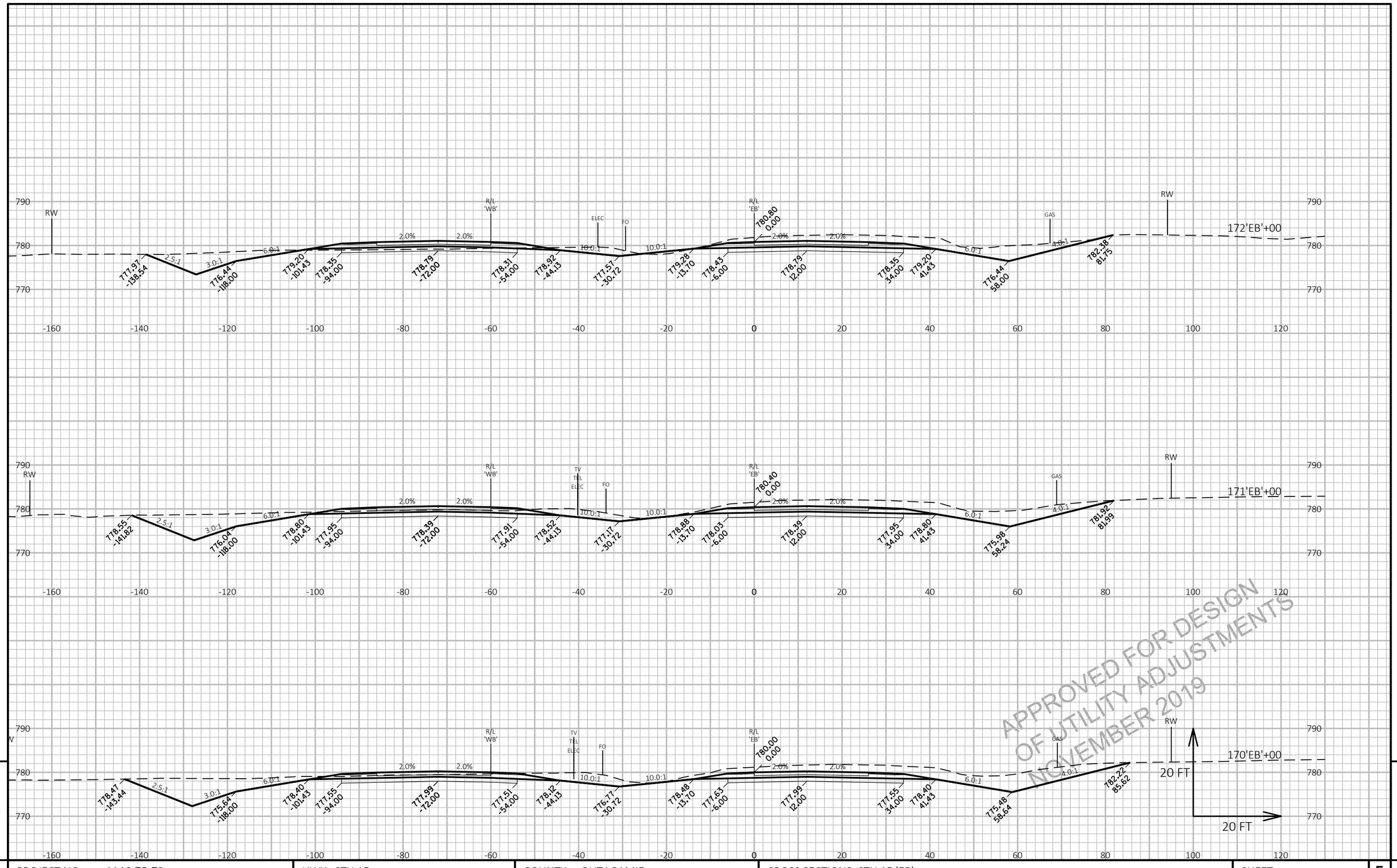
PLOT DATE : 11/6/2019 8:04 AM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



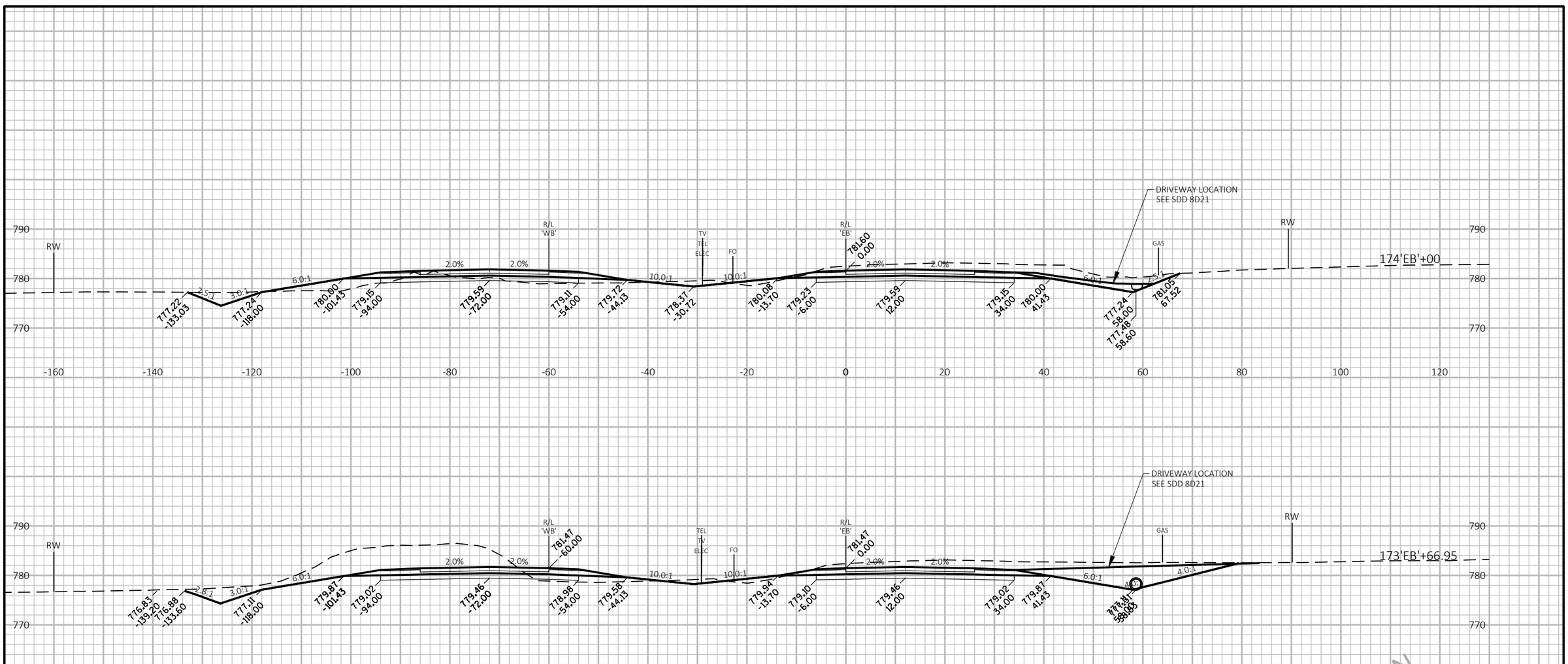
APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

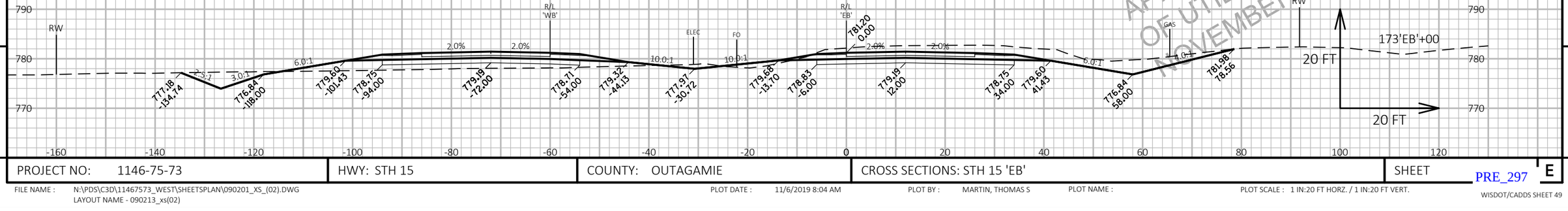
9

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET

PRE_296

E





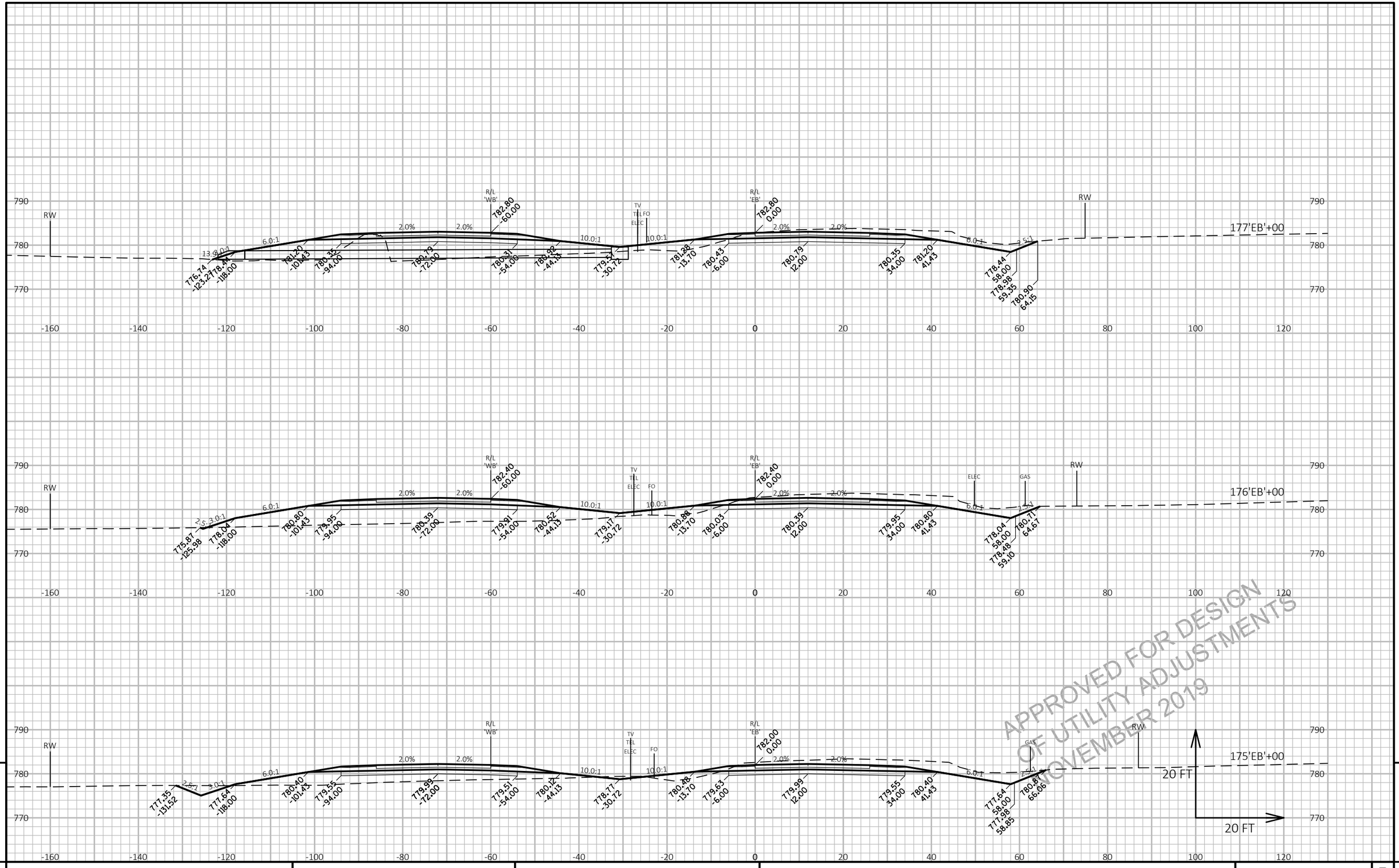
APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

9

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(02).DWG
LAYOUT NAME - 090213_xs(02)

PLOT DATE : 11/6/2019 8:04 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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9

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(02).DWG
LAYOUT NAME - 090214_xs(02)

PLOT DATE : 11/6/2019 8:05 AM

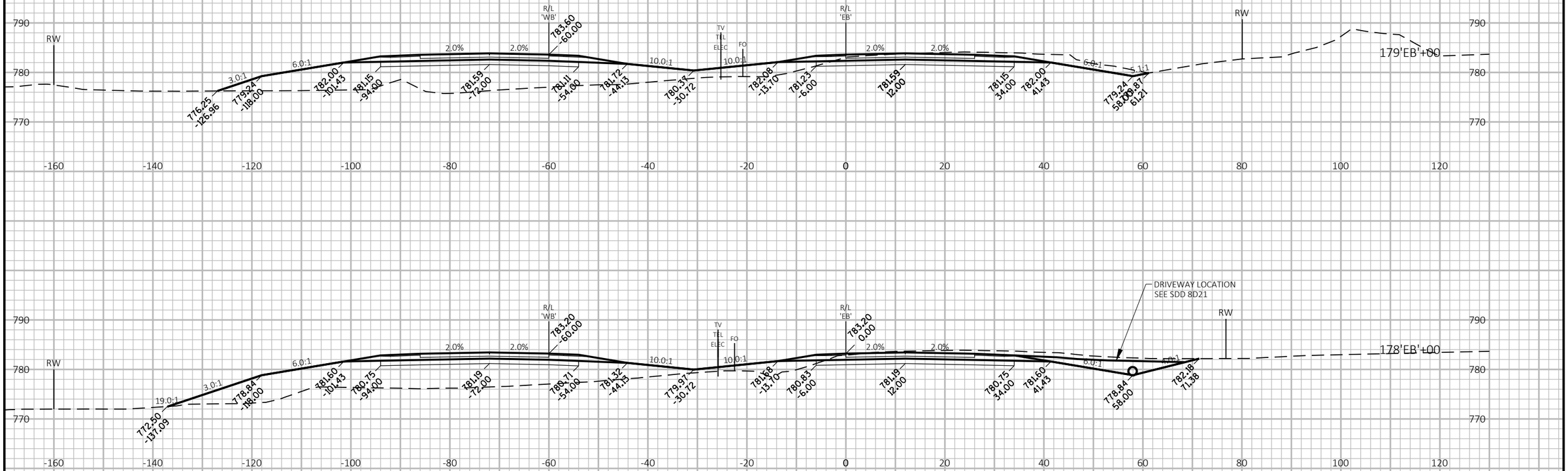
PLOT BY : MARTIN, THOMAS S

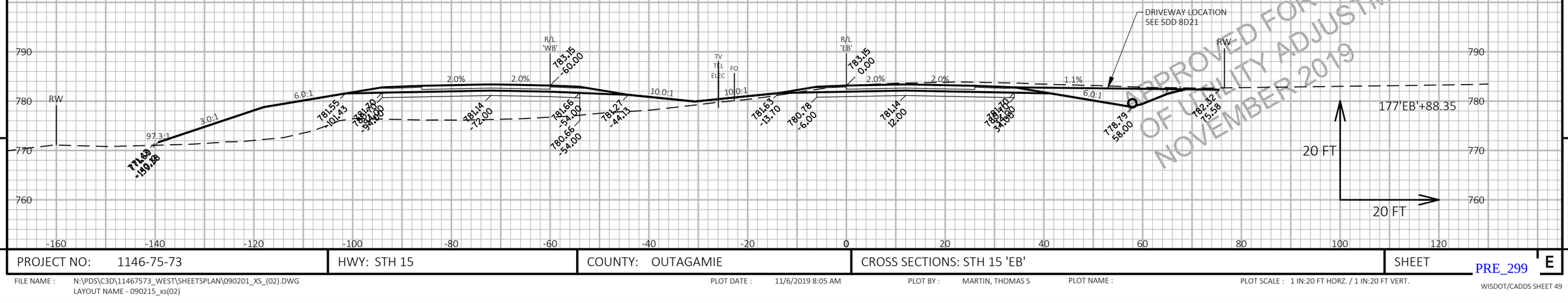
PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_298

WISDOT/CADDS SHEET 49





APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E

PRE_299

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(02).DWG
LAYOUT NAME - 090215_xs(02)

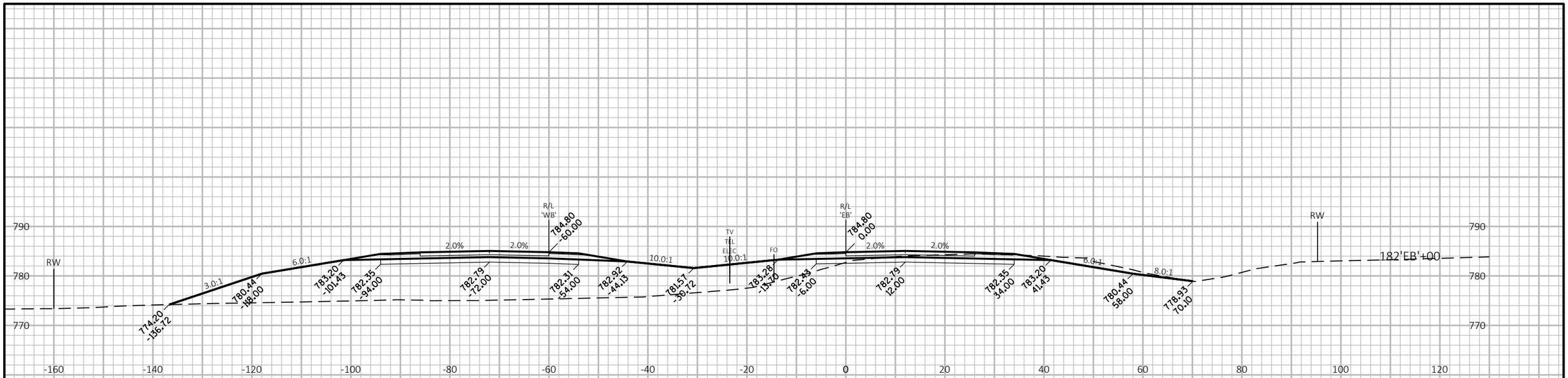
PLOT DATE : 11/6/2019 8:05 AM

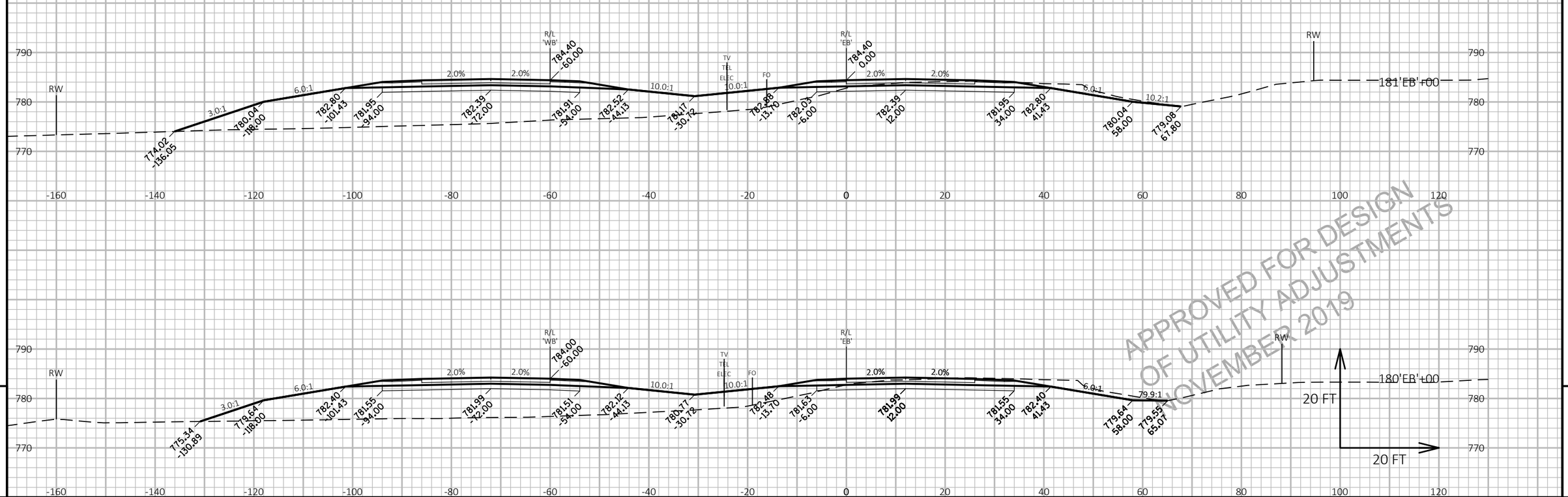
PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49





APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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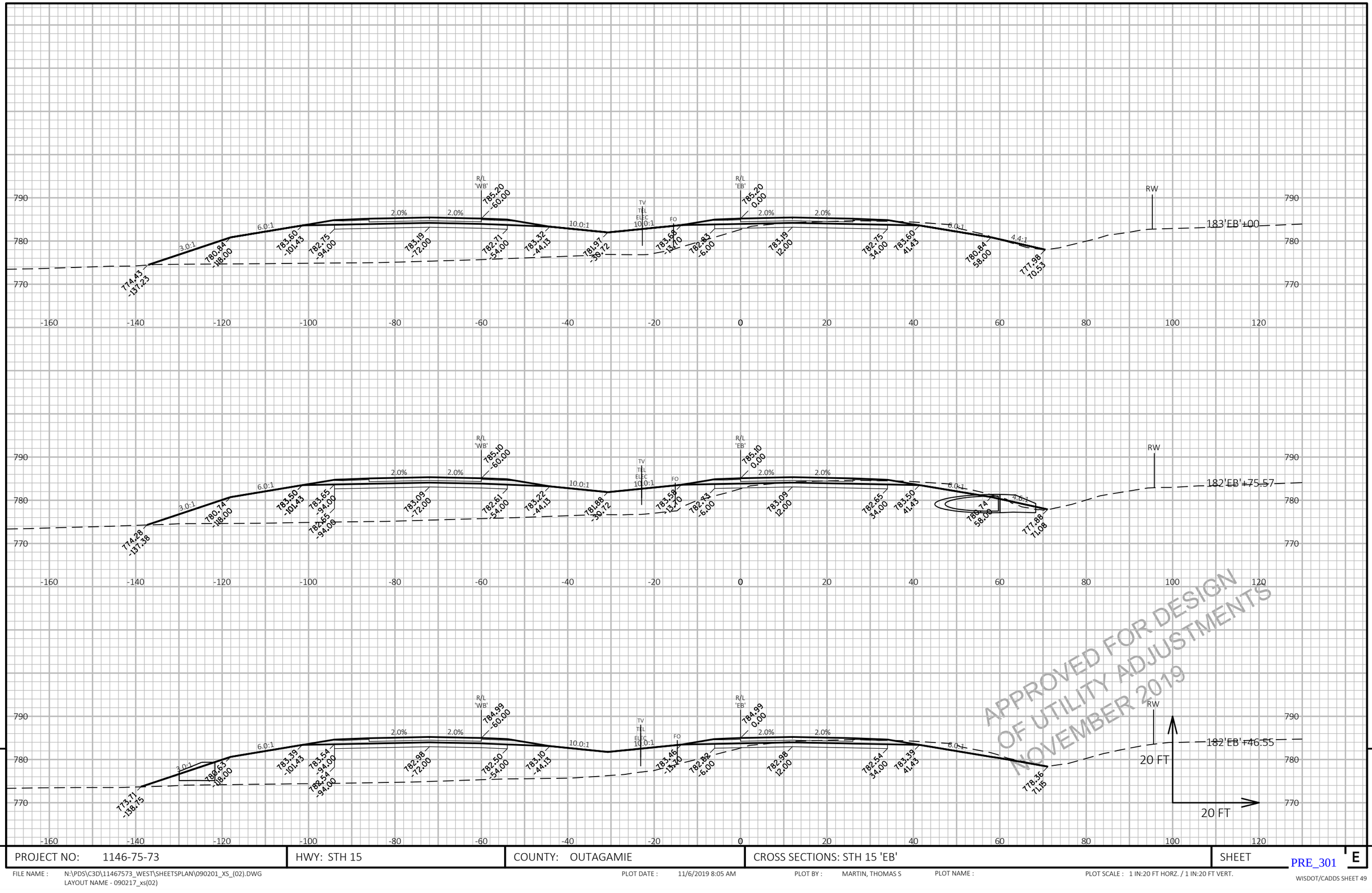
9

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E



APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E

PRE_301

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(02).DWG
LAYOUT NAME - 090217_xs(02)

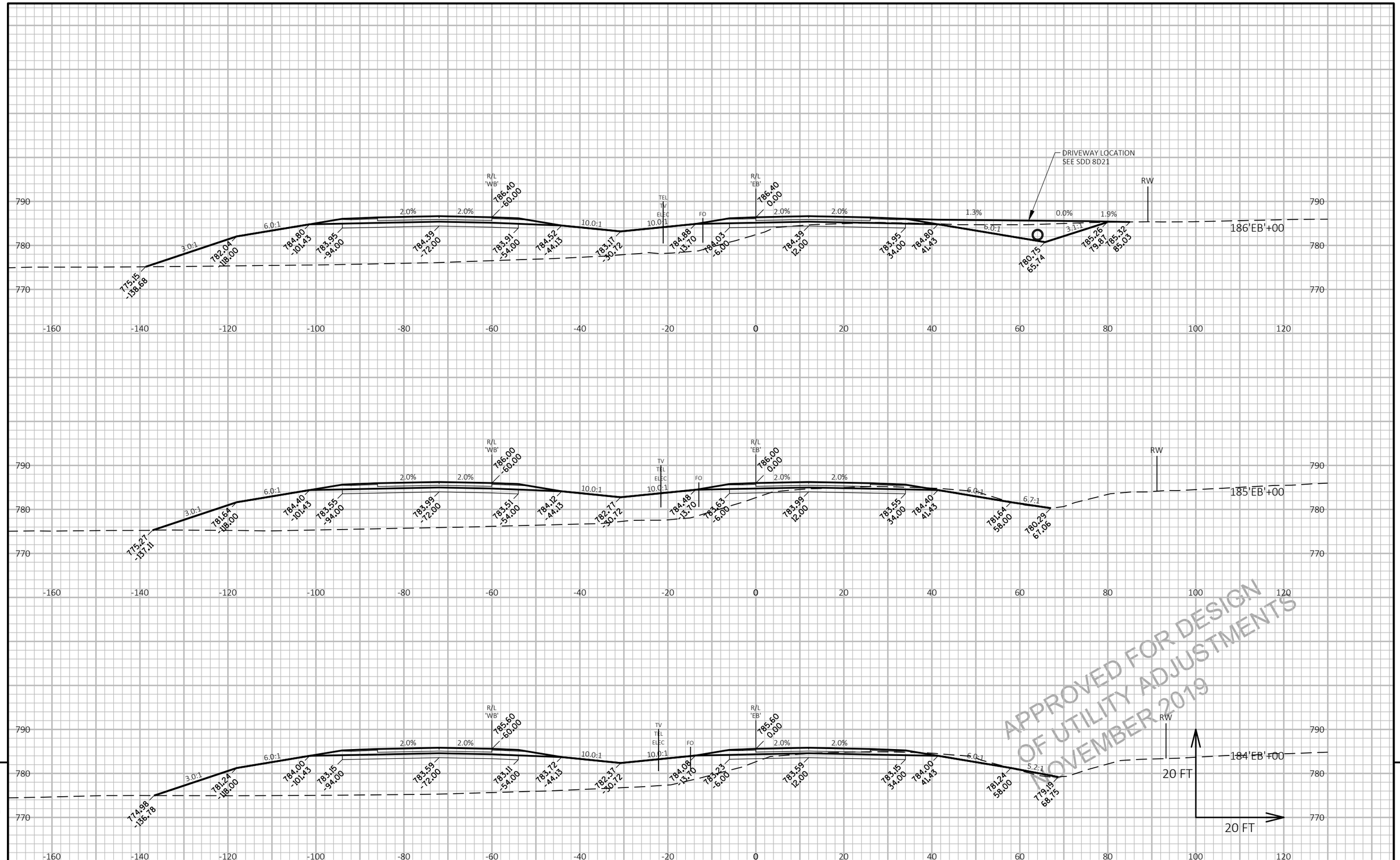
PLOT DATE : 11/6/2019 8:05 AM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



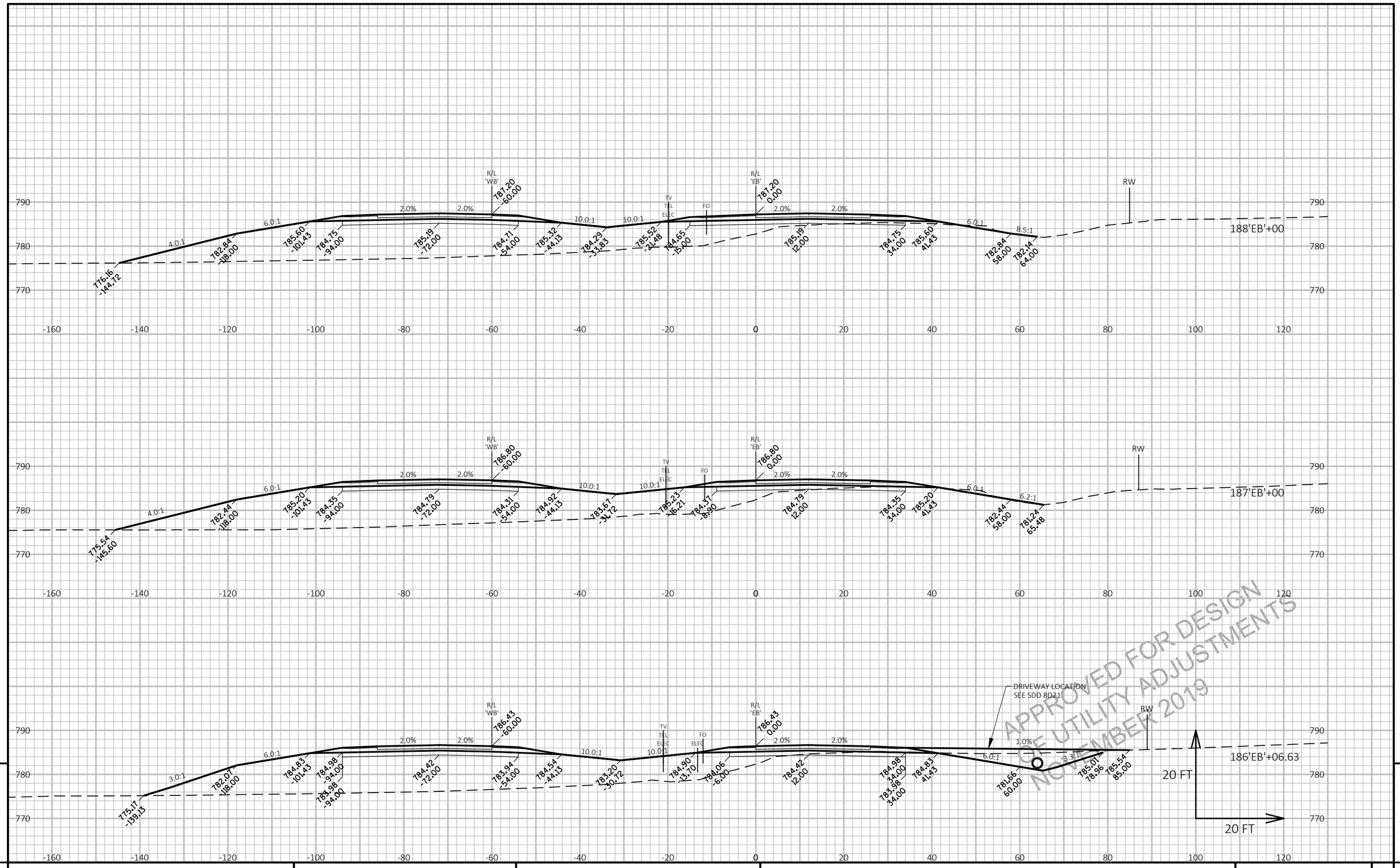
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(02).DWG
LAYOUT NAME - 090218_xs(02)

PLOT DATE : 11/6/2019 8:05 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_302

WISDOT/CADDS SHEET 49



APPROVED FOR DESIGN
OE UTILITY ADJUSTMENTS
NOVEMBER 2019

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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E

PRE_303

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(02).DWG
LAYOUT NAME - 090219_xs(02)

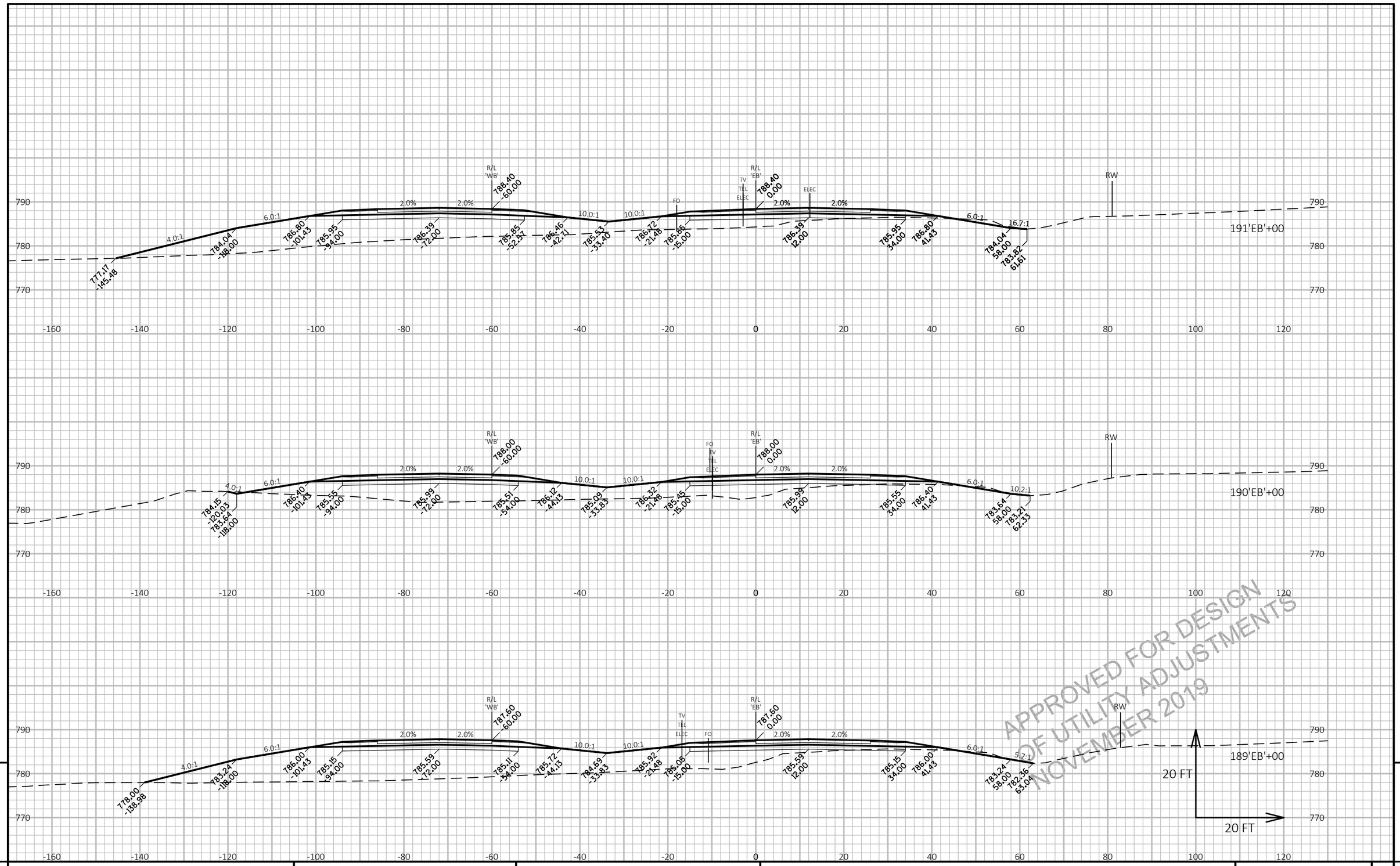
PLOT DATE : 11/6/2019 8:06 AM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



9

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E

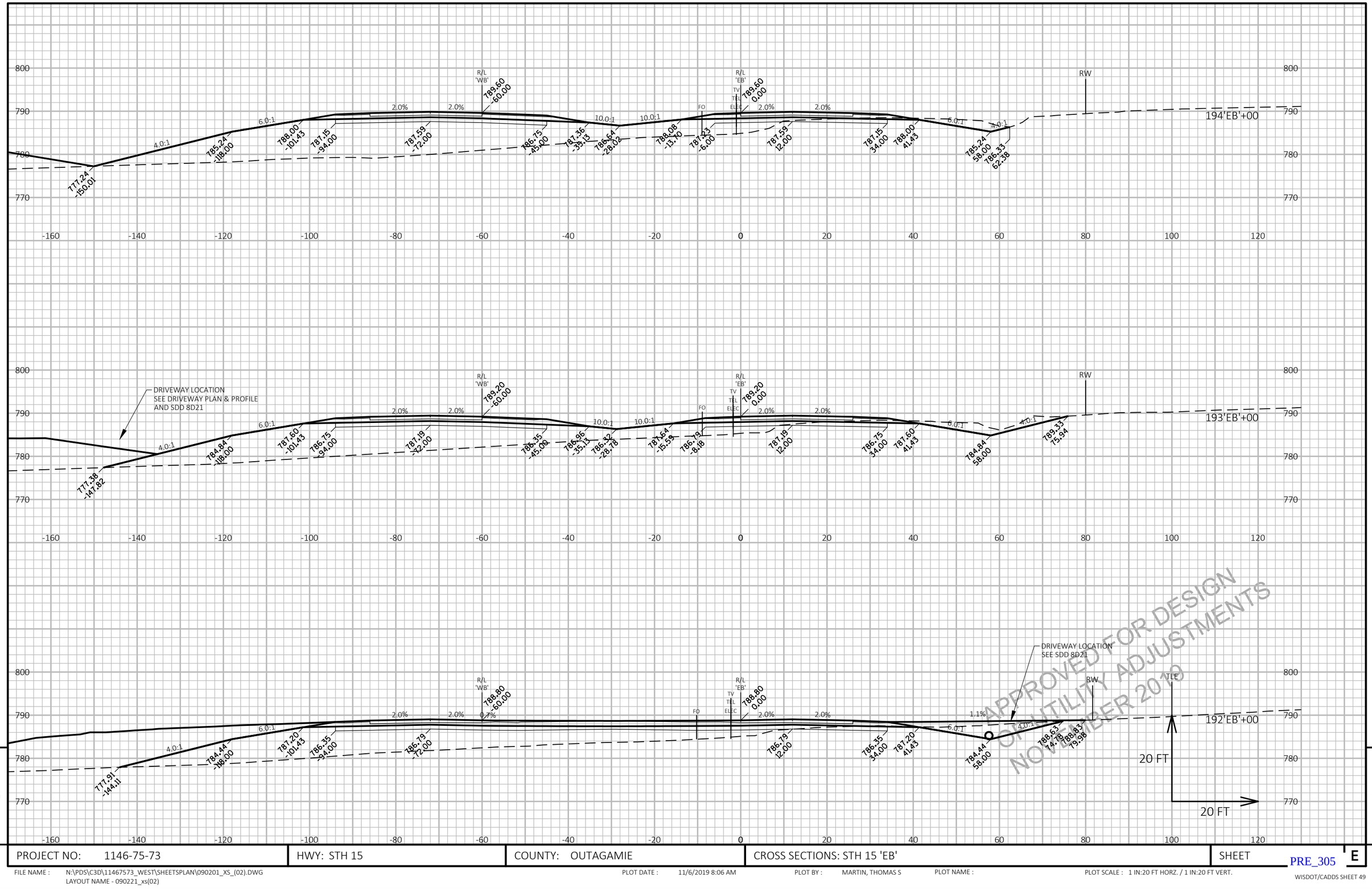
PRE_304

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(02).DWG
LAYOUT NAME - 090220_xs(02)

PLOT DATE : 11/6/2019 8:06 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

9



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OR UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(02).DWG
LAYOUT NAME - 090221_xs(02)

PLOT DATE : 11/6/2019 8:06 AM

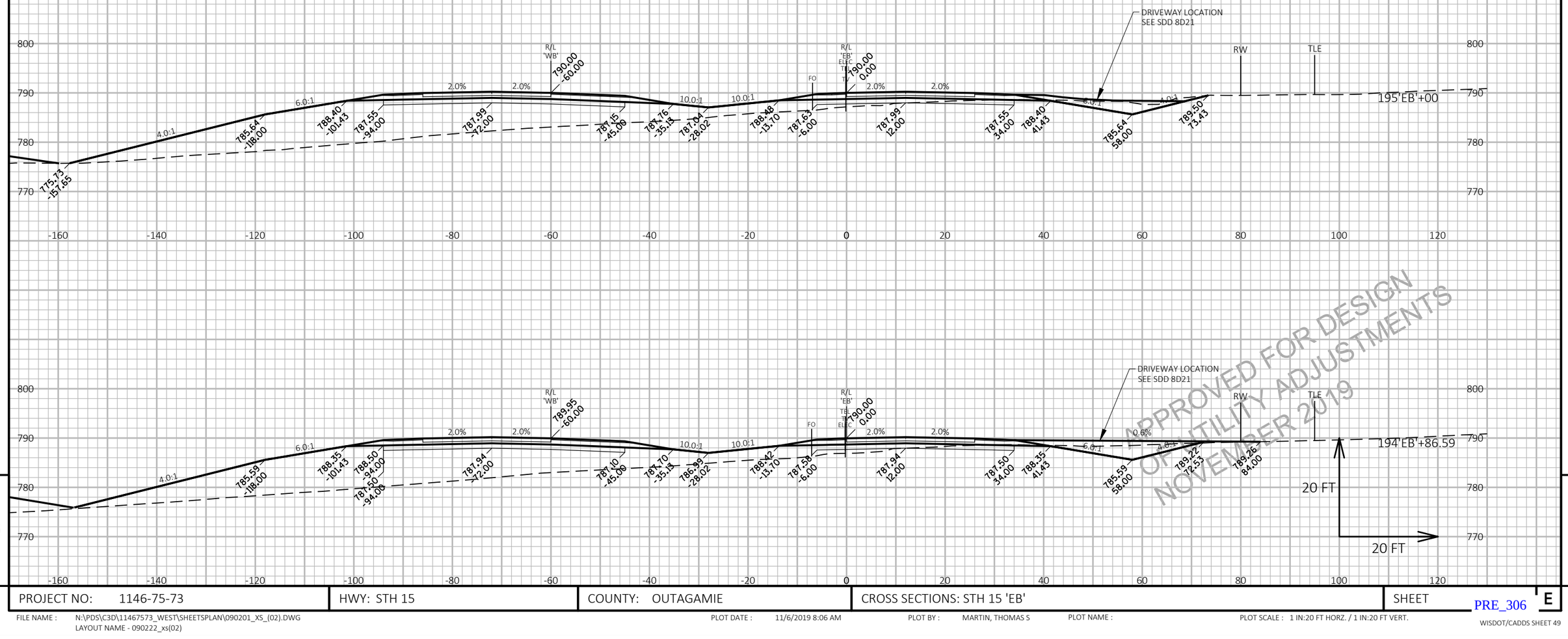
PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_305

WISDOT/CADDS SHEET 49



APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

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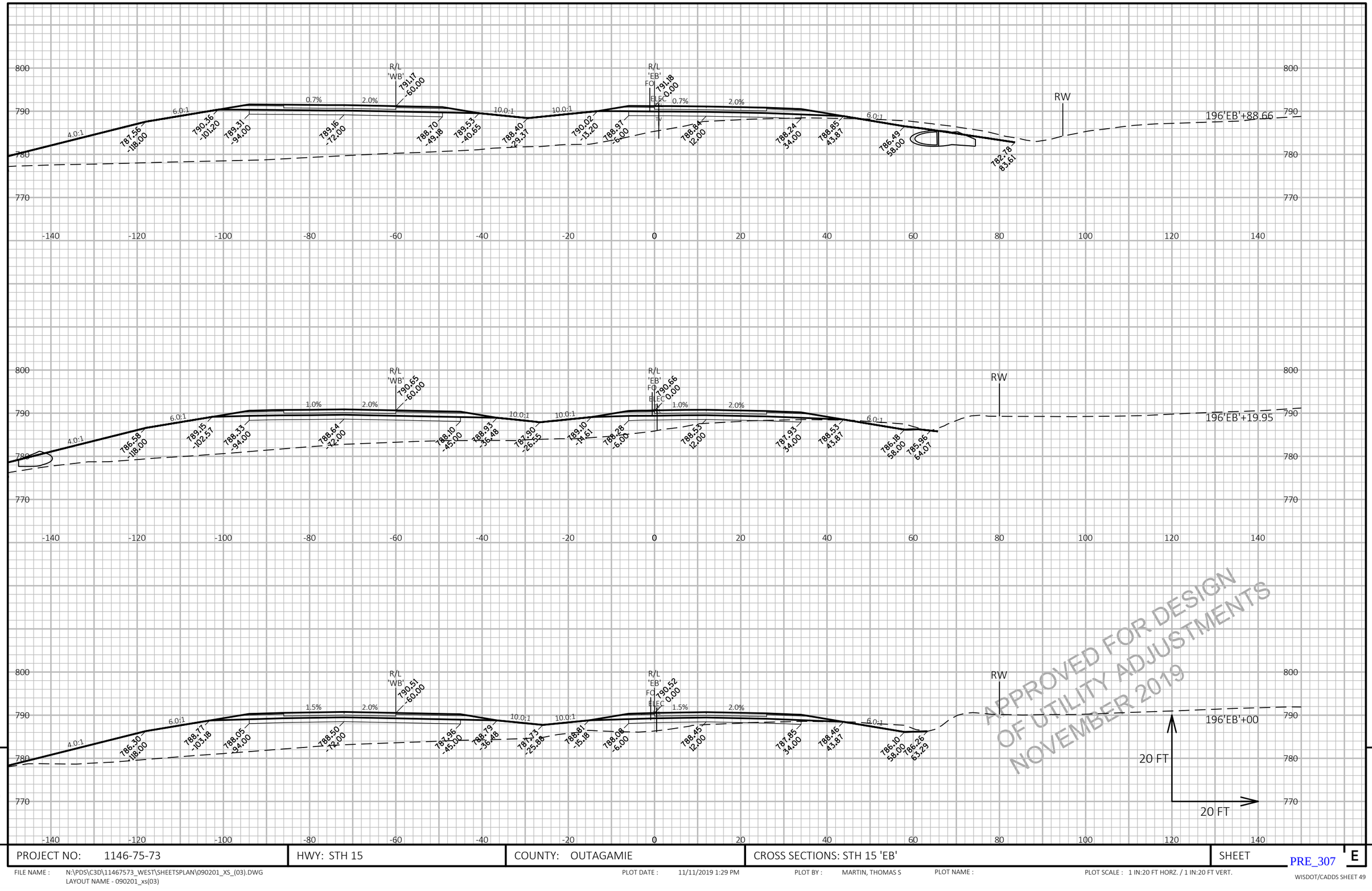
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E

PRE_306

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(02).DWG
LAYOUT NAME - 090222_xs(02)

PLOT DATE : 11/6/2019 8:06 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

9

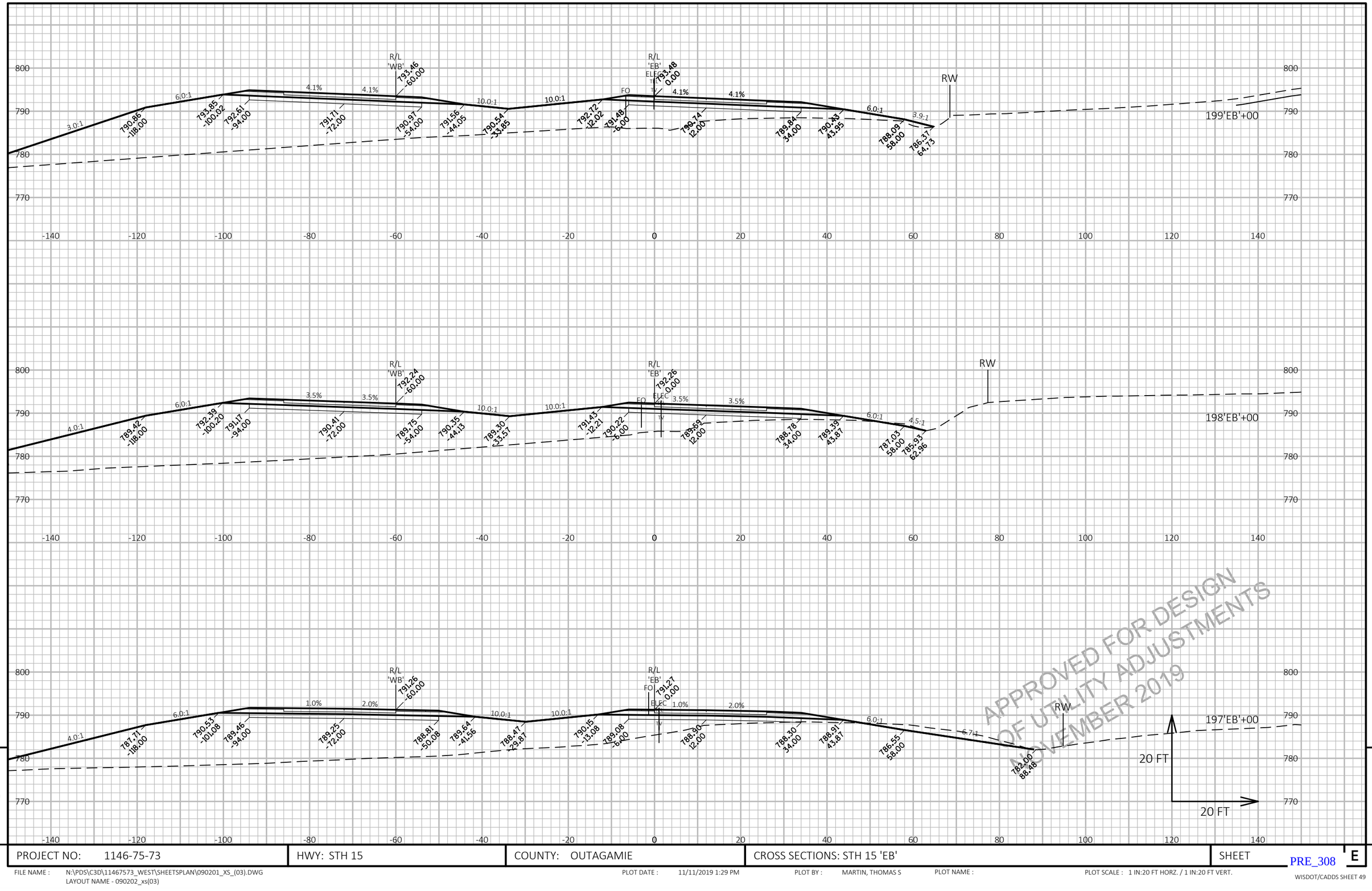
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(03).DWG
LAYOUT NAME - 090201_xs(03)

PLOT DATE : 11/11/2019 1:29 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_307

WISDOT/CADDS SHEET 49



APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

9

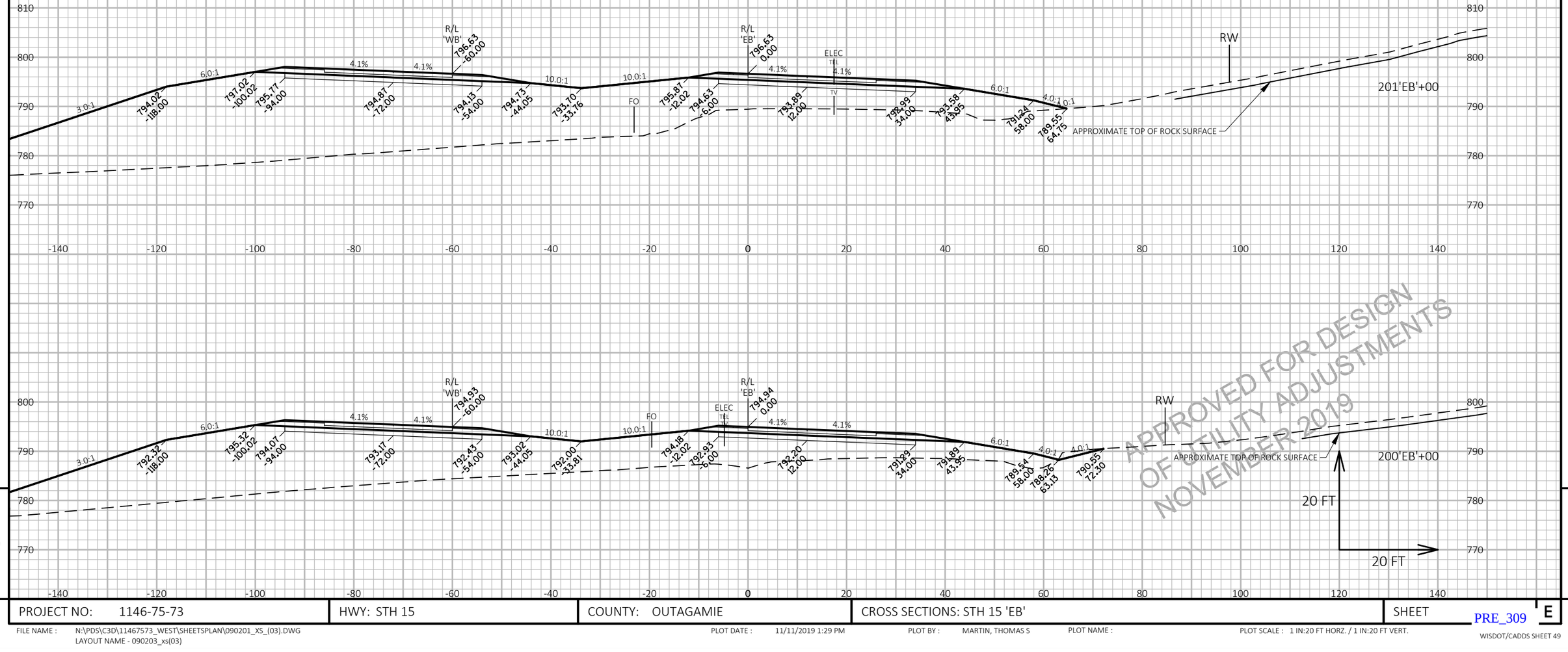
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(03).DWG
LAYOUT NAME - 090202_xs(03)

PLOT DATE : 11/11/2019 1:29 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_308

WISDOT/CADDS SHEET 49



APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E

PRE_309

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(03).DWG
LAYOUT NAME - 090203_xs(03)

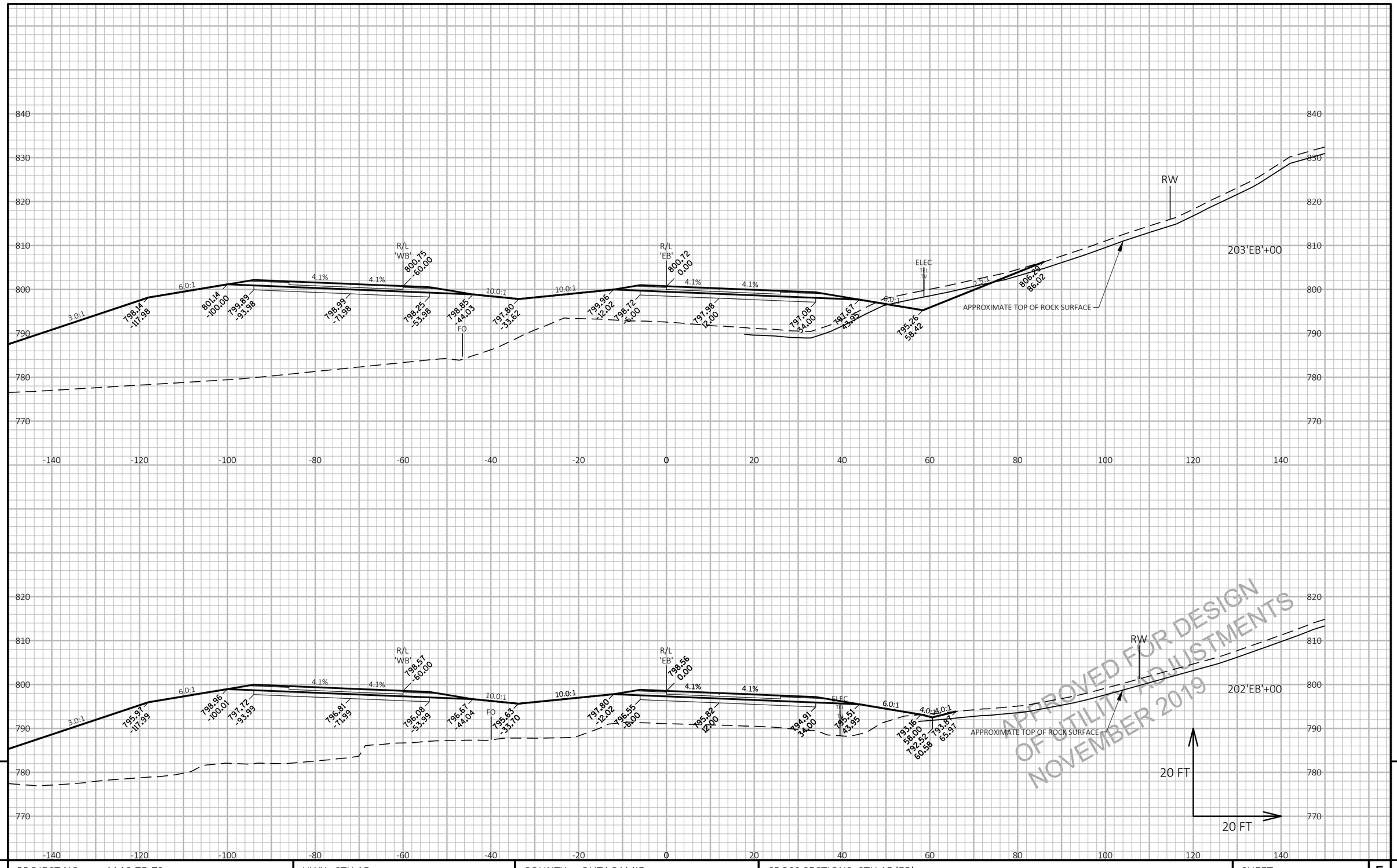
PLOT DATE : 11/11/2019 1:29 PM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

9

9

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET
				PRE_310 E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(03).DWG
LAYOUT NAME - 090204_xs(03)

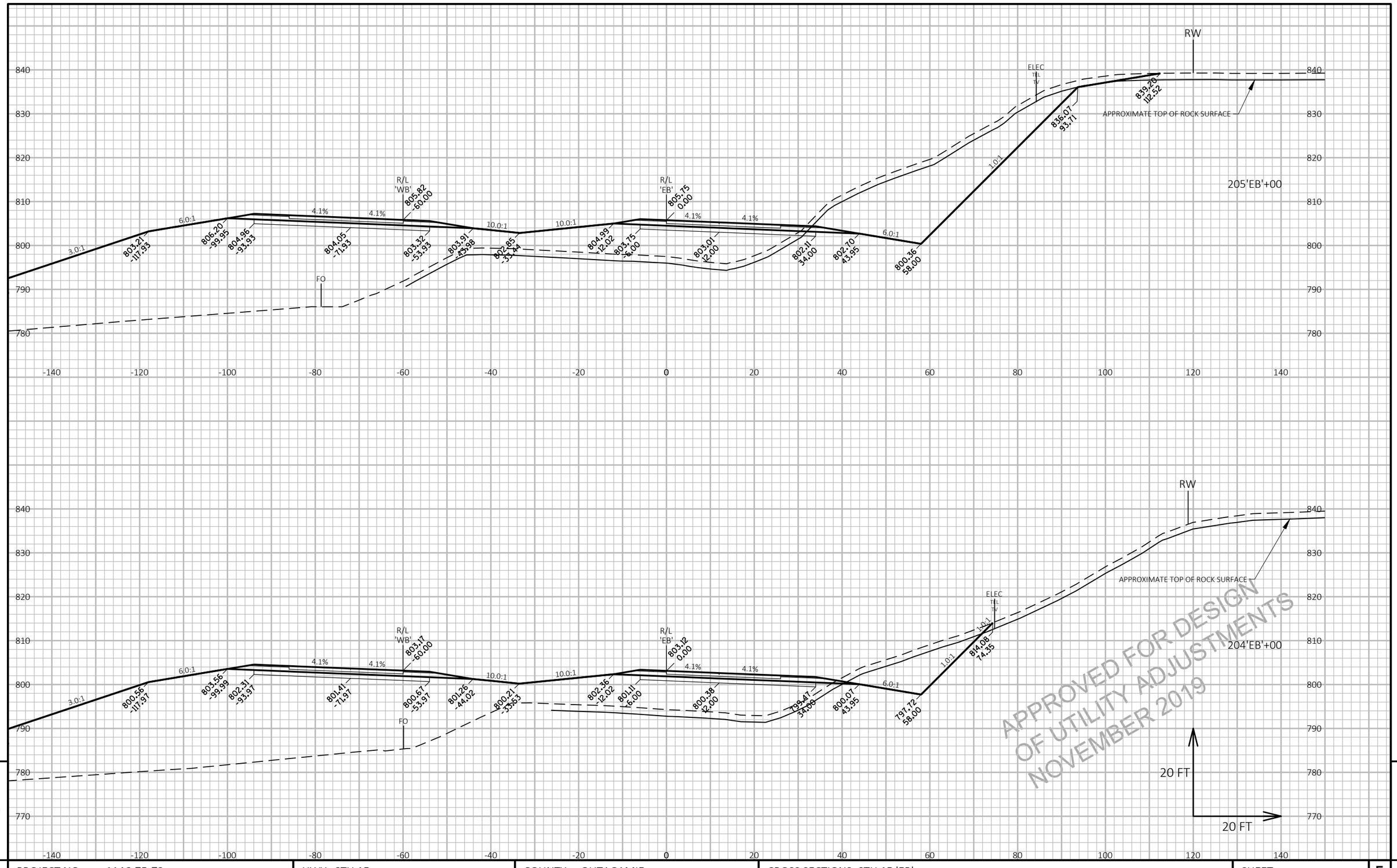
PLOT DATE : 11/11/2019 1:30 PM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(03).DWG
LAYOUT NAME - 090205_xs(03)

PLOT DATE : 11/11/2019 1:30 PM

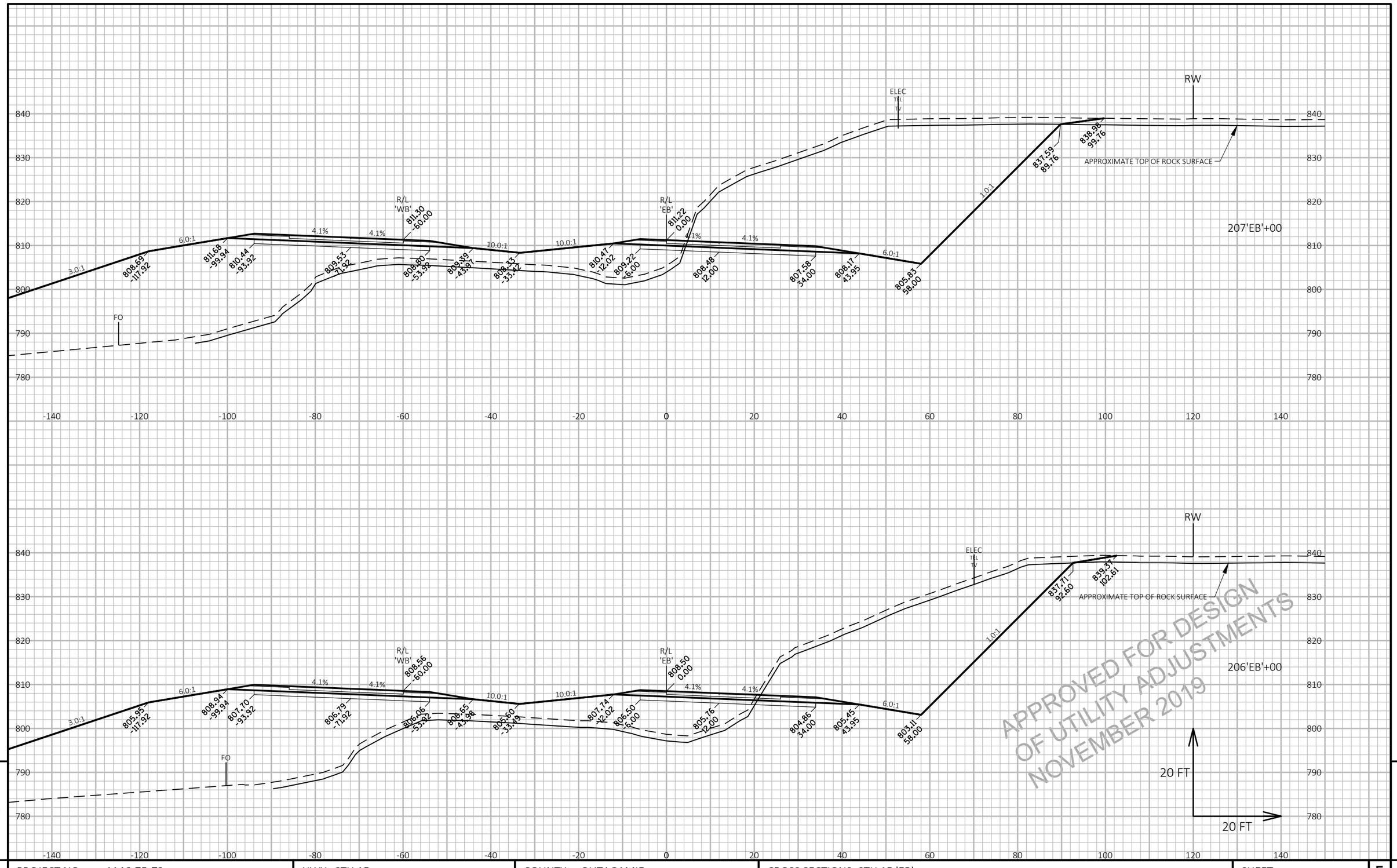
PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_311

WISDOT/CADDS SHEET 49



APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

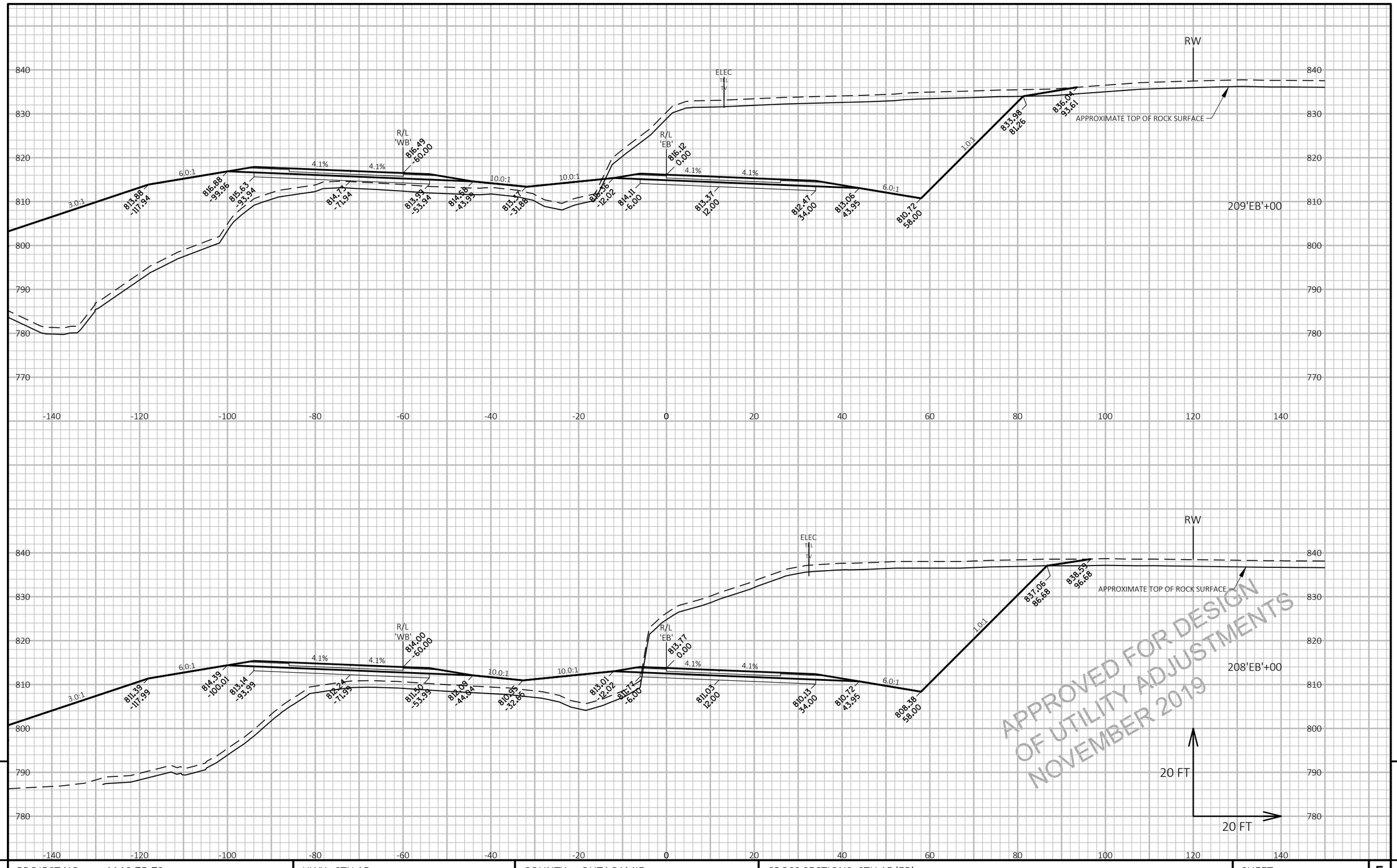
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET

PRE_312

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(03).DWG
LAYOUT NAME - 090206_xs(03)

PLOT DATE : 11/11/2019 1:30 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



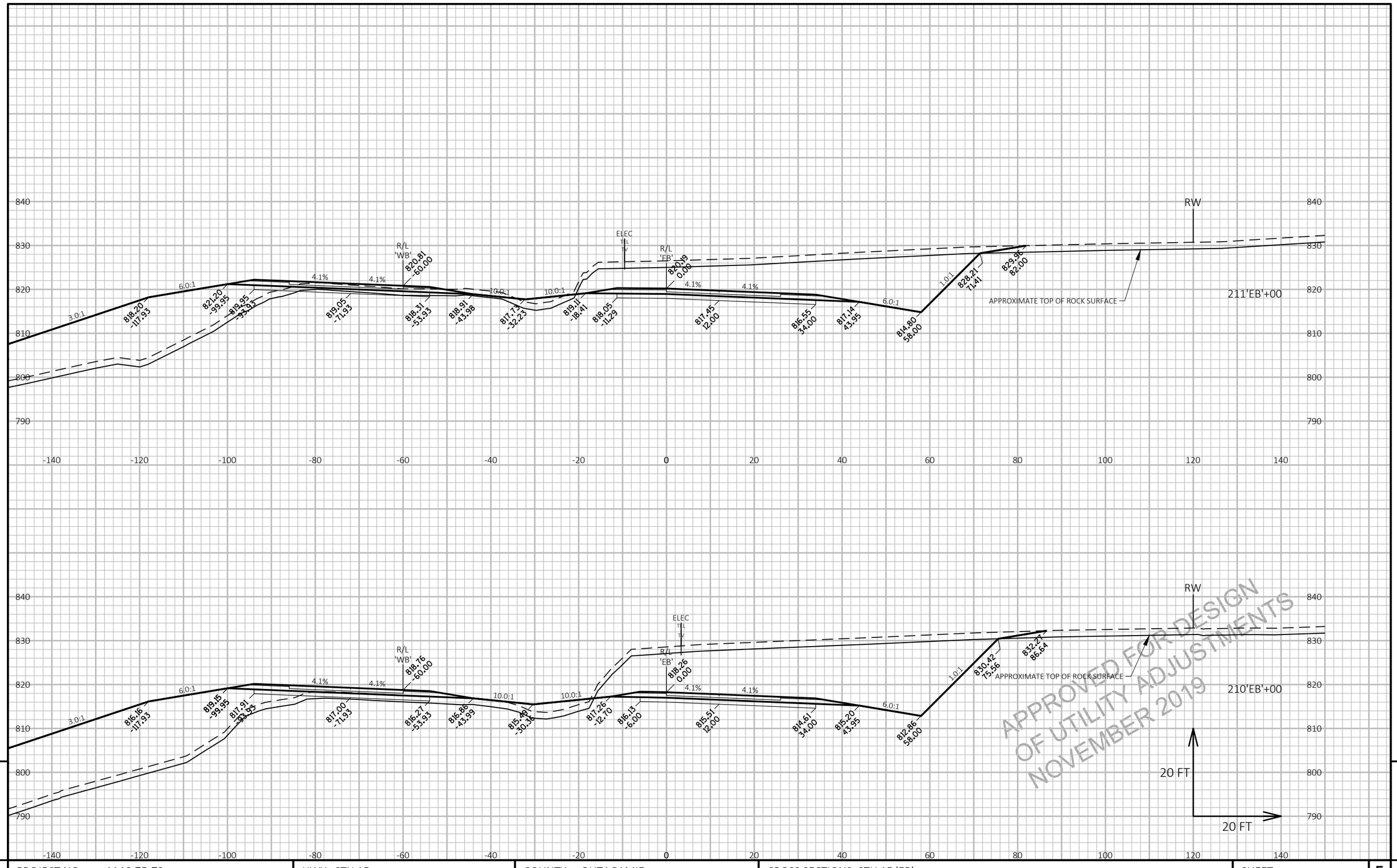
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(03).DWG
LAYOUT NAME - 090207_xs(03)

PLOT DATE : 11/11/2019 1:31 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_313

WISDOT/CADDS SHEET 49



APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

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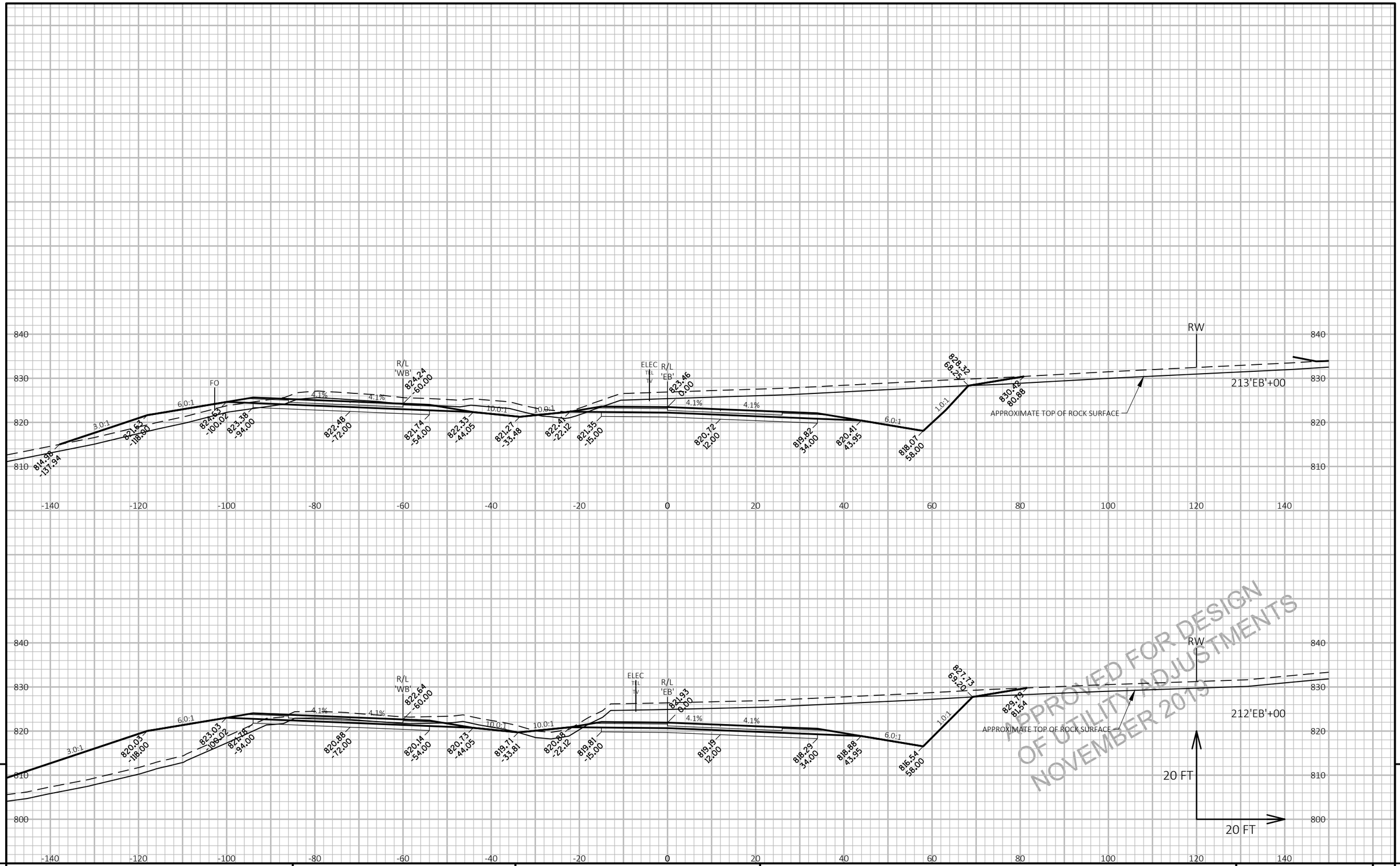
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET PRE_314 E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(03).DWG
LAYOUT NAME - 090208_xs(03)

PLOT DATE : 11/11/2019 1:31 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

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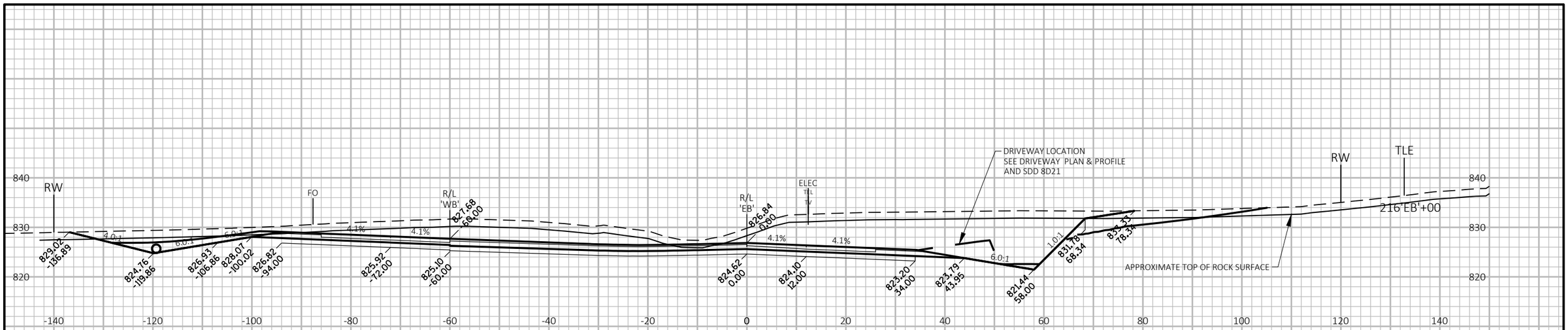
9

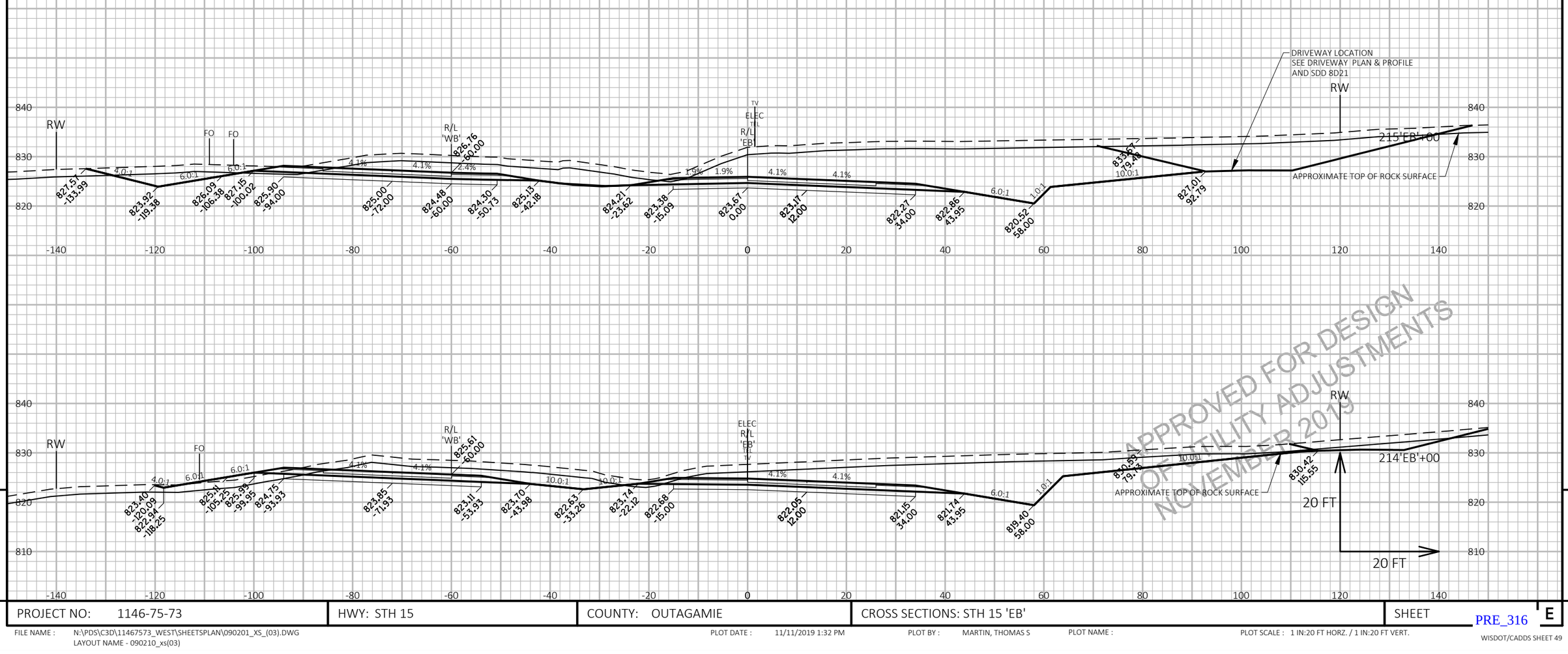
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(03).DWG
LAYOUT NAME - 090209_xs(03)

PLOT DATE : 11/11/2019 1:31 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_315





APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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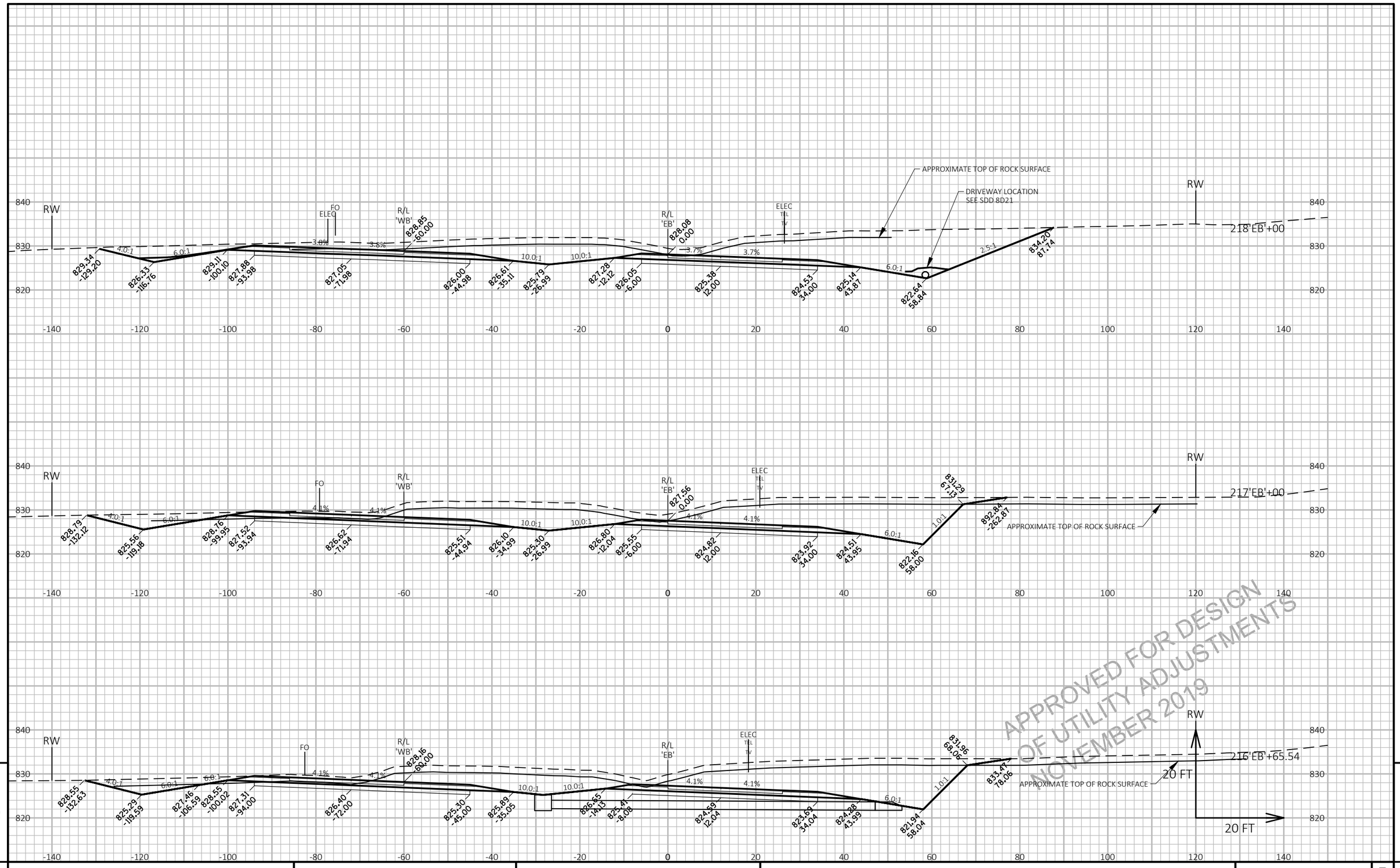
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E

PRE_316

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(03).DWG
LAYOUT NAME - 090210_xs(03)

PLOT DATE : 11/11/2019 1:32 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(03).DWG
LAYOUT NAME - 090211_xs(03)

PLOT DATE : 11/11/2019 1:32 PM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_317

E

WISDOT/CADDS SHEET 49

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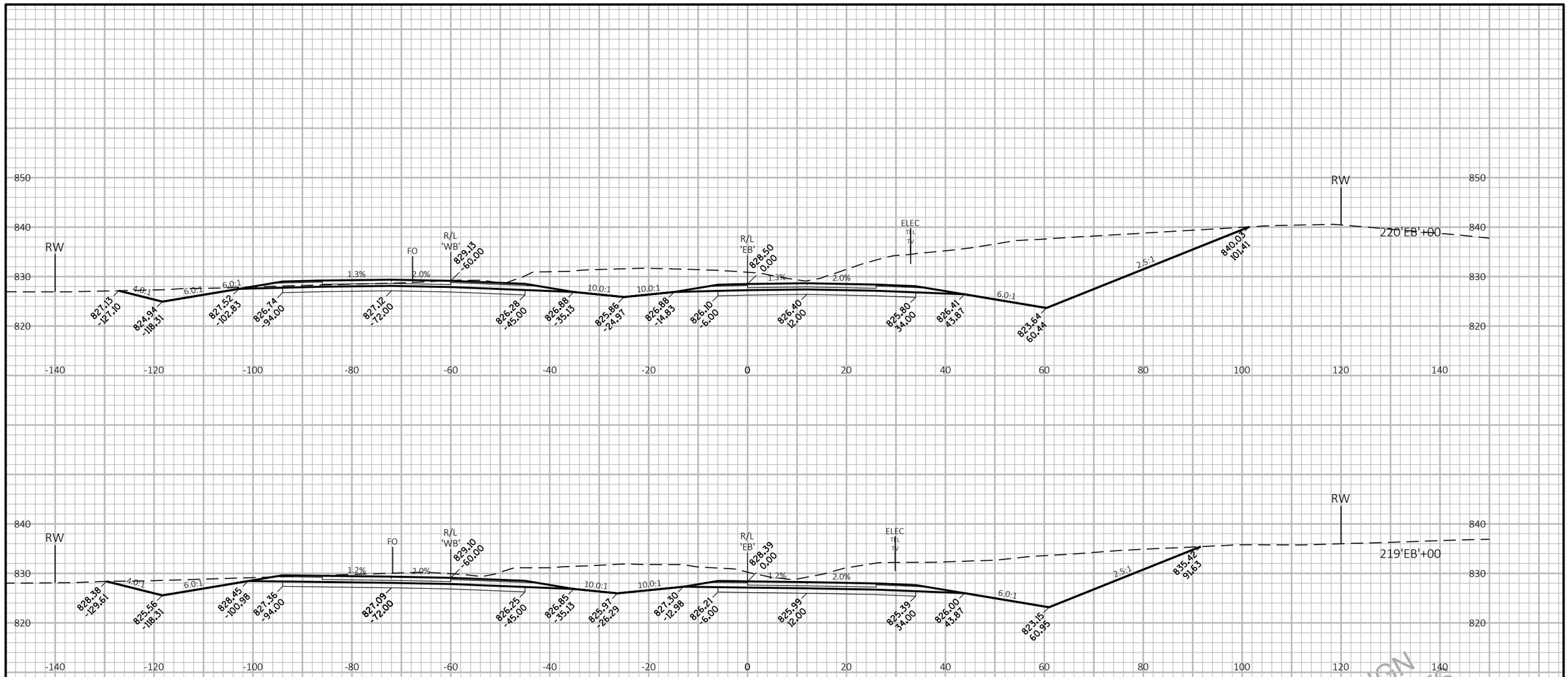
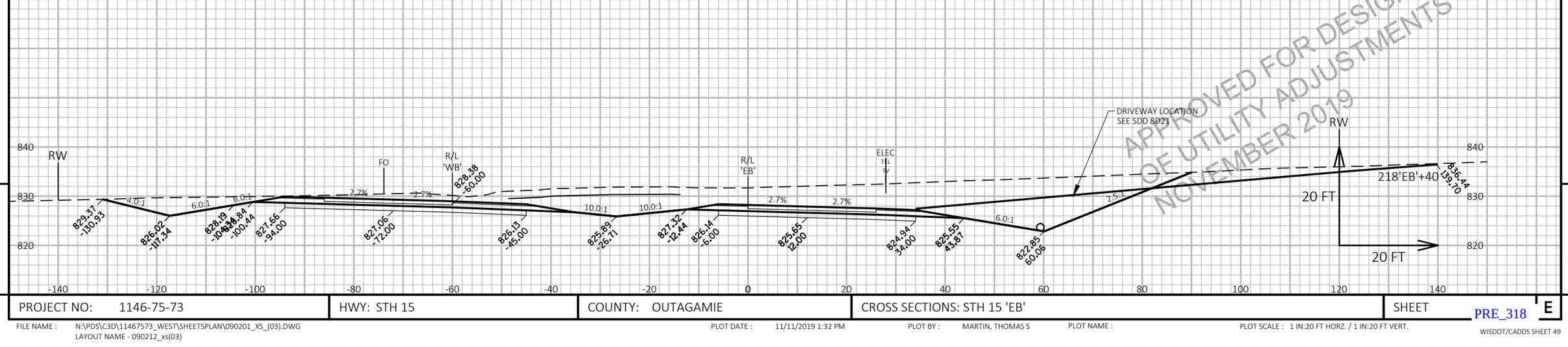
9





APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

9 9

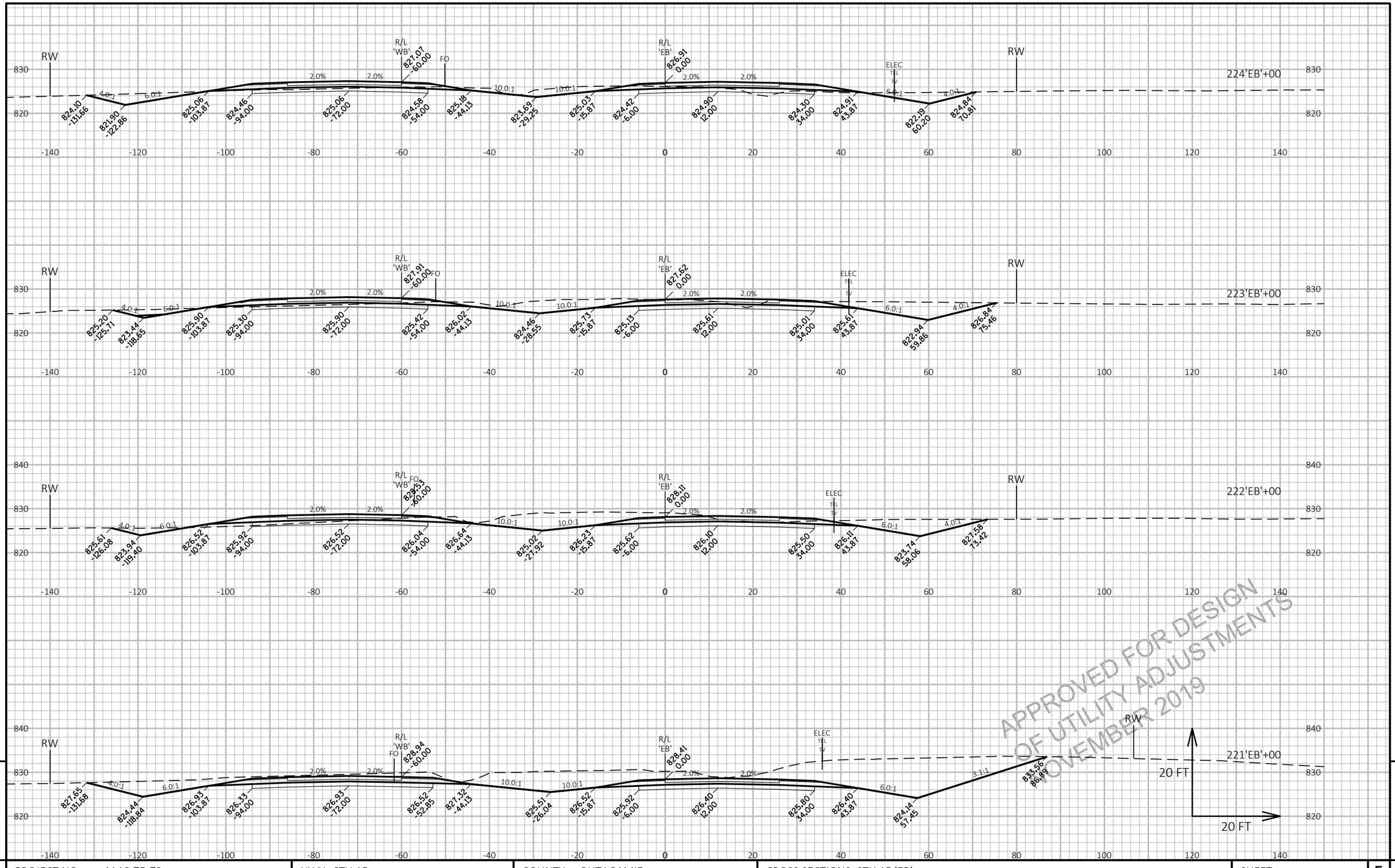
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E

PRE_318

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(03).DWG
LAYOUT NAME - 090212_xs(03)

PLOT DATE : 11/11/2019 1:32 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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OF UTILITY ADJUSTMENTS
NOVEMBER 2019

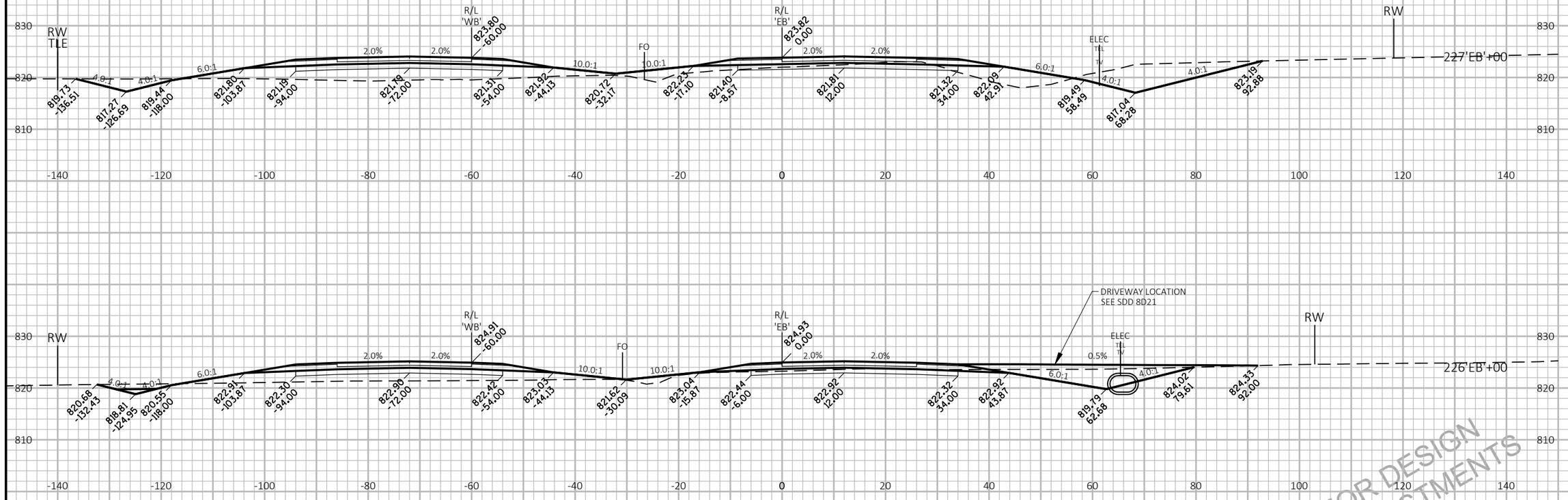
9

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET

PRE_319 E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(03).DWG
LAYOUT NAME - 090213_xs(03)

PLOT DATE : 11/11/2019 1:33 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



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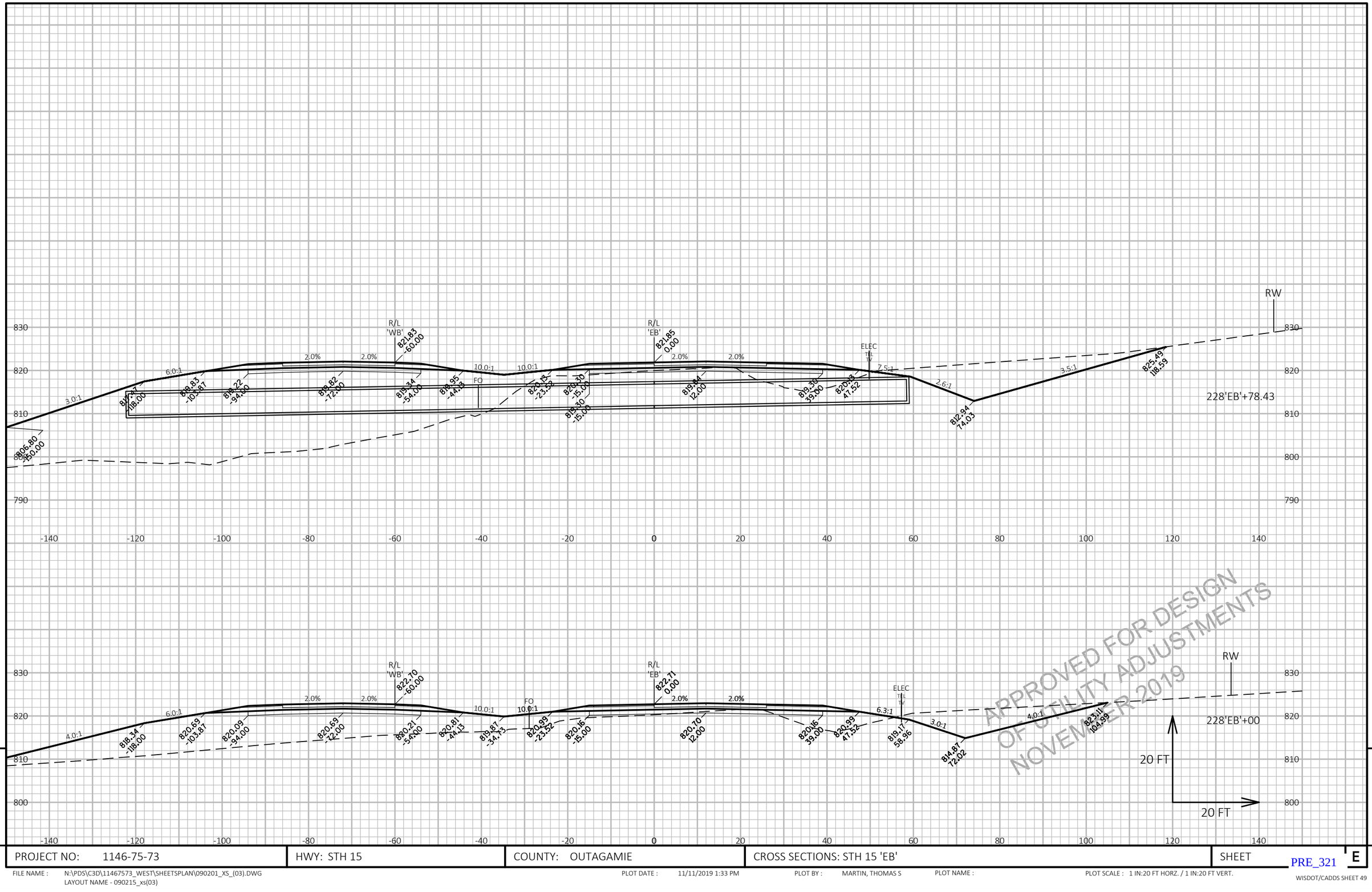
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

9

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E



APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

9 9

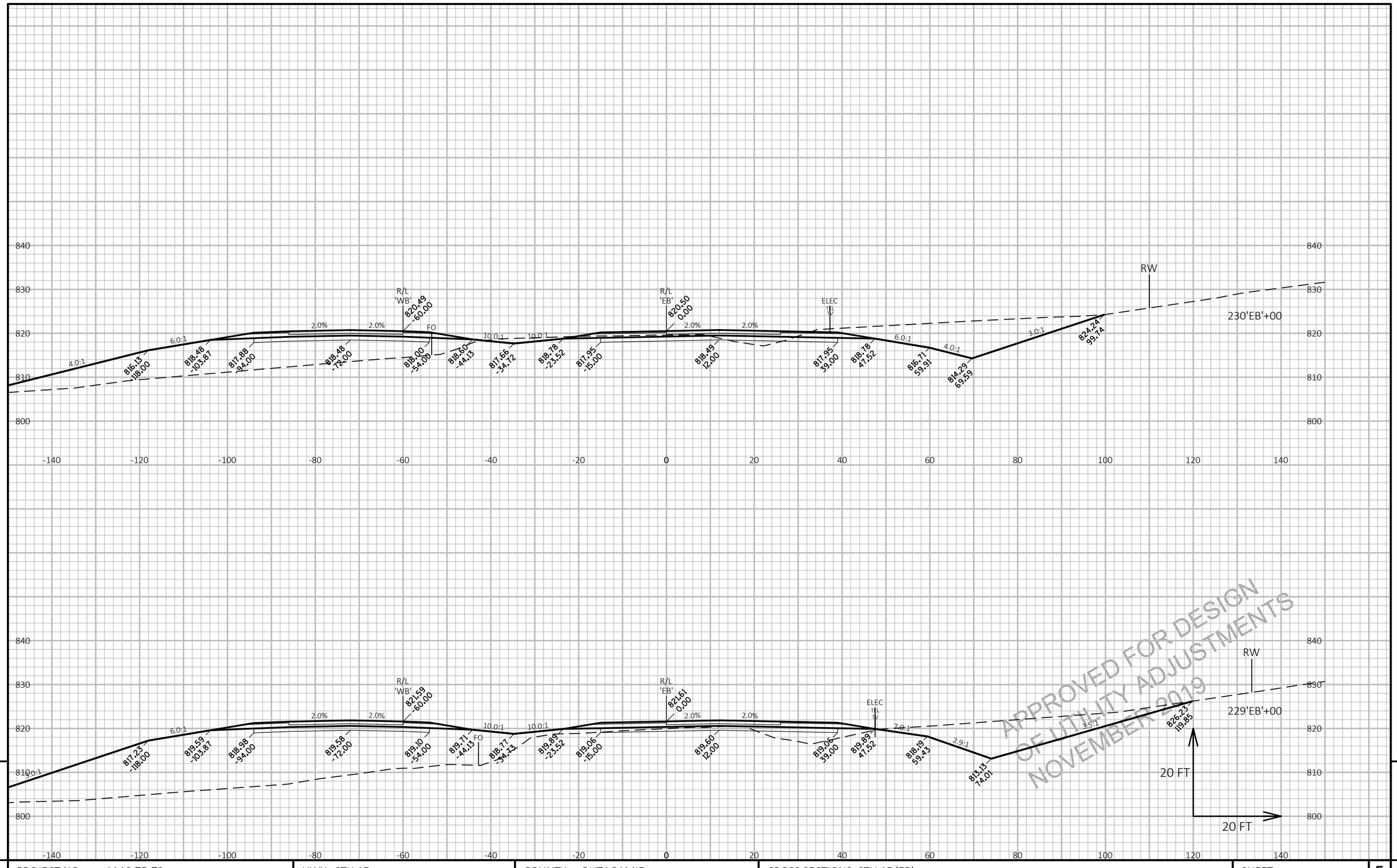
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(03).DWG
LAYOUT NAME - 090215_xs(03)

PLOT DATE : 11/11/2019 1:33 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_321

WISDOT/CADDS SHEET 49



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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E

PRE_322

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(03).DWG
LAYOUT NAME - 090216_xs(03)

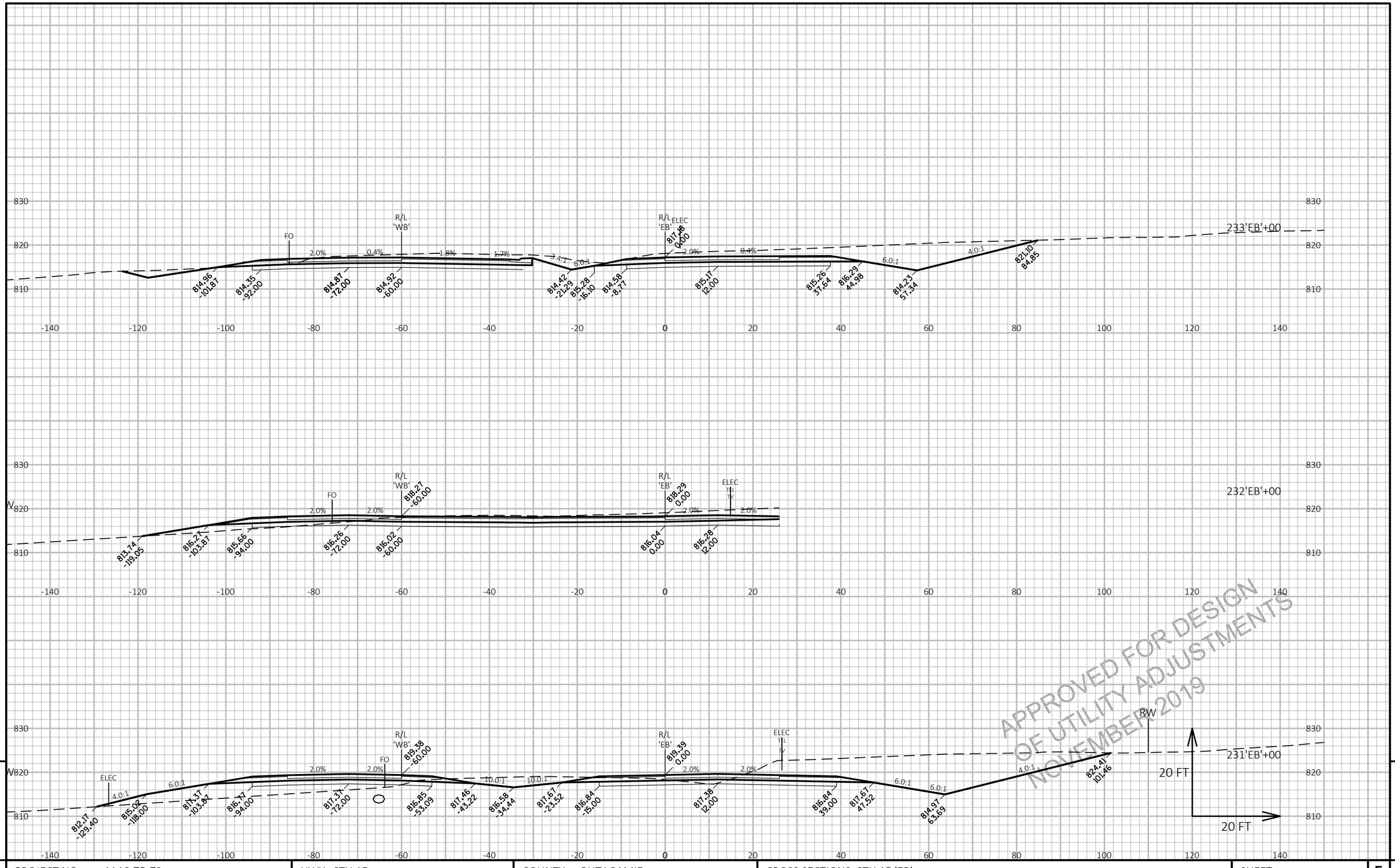
PLOT DATE : 11/11/2019 1:34 PM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(03).DWG
LAYOUT NAME - 090217_xs(03)

PLOT DATE : 11/11/2019 1:34 PM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_323

E

WISDOT/CADDS SHEET 49

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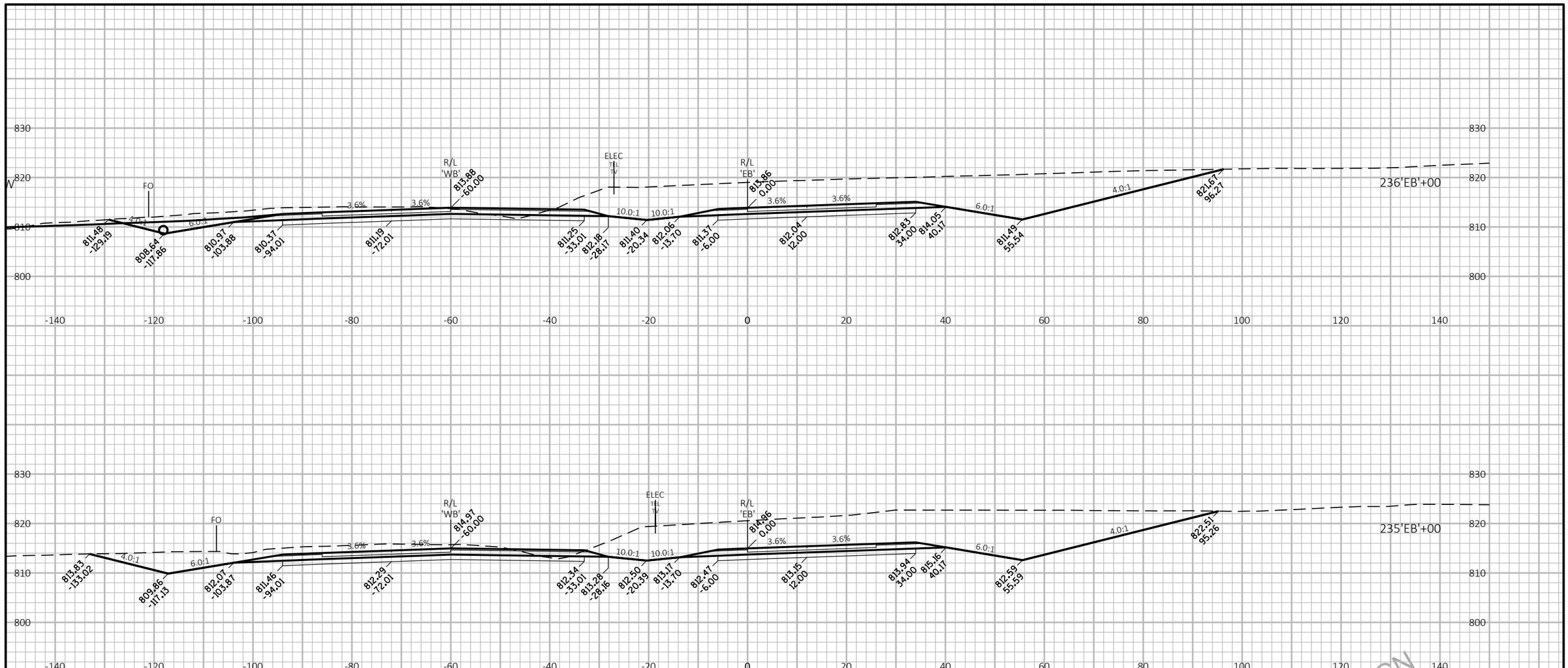

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OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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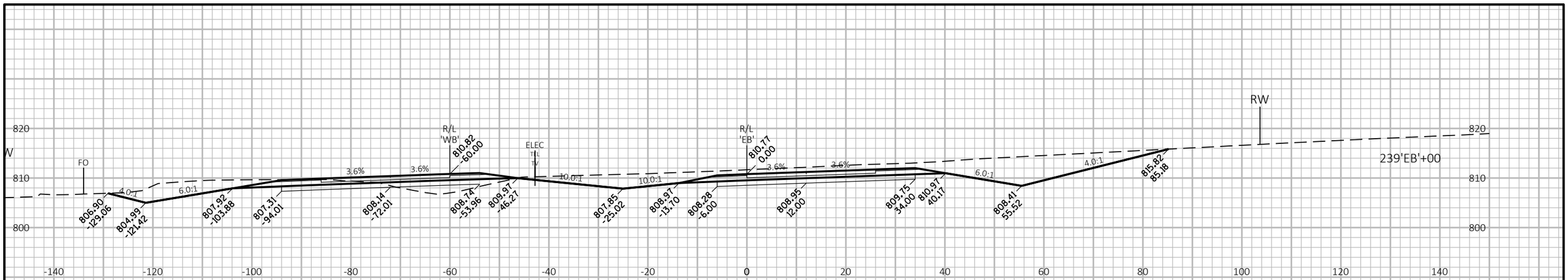
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E

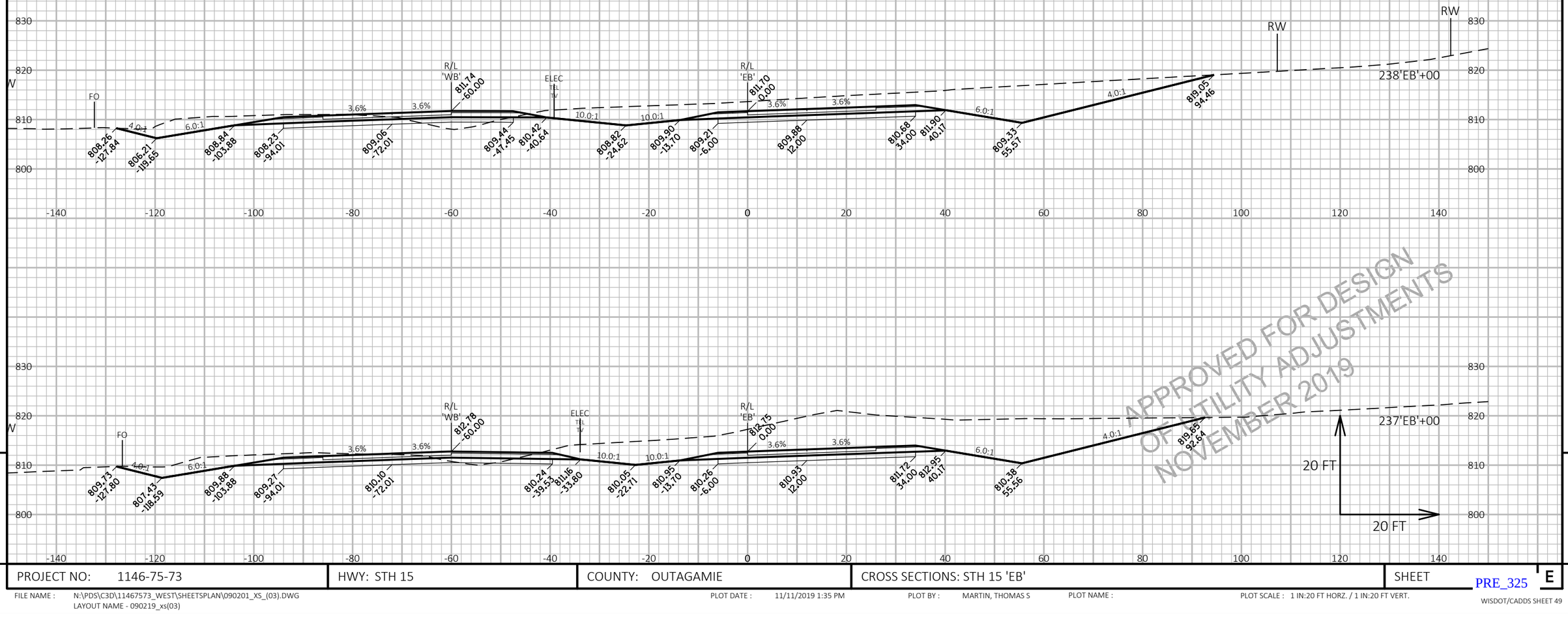
PRE_324

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(03).DWG
LAYOUT NAME - 090218_xs(03)

PLOT DATE : 11/11/2019 1:34 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49





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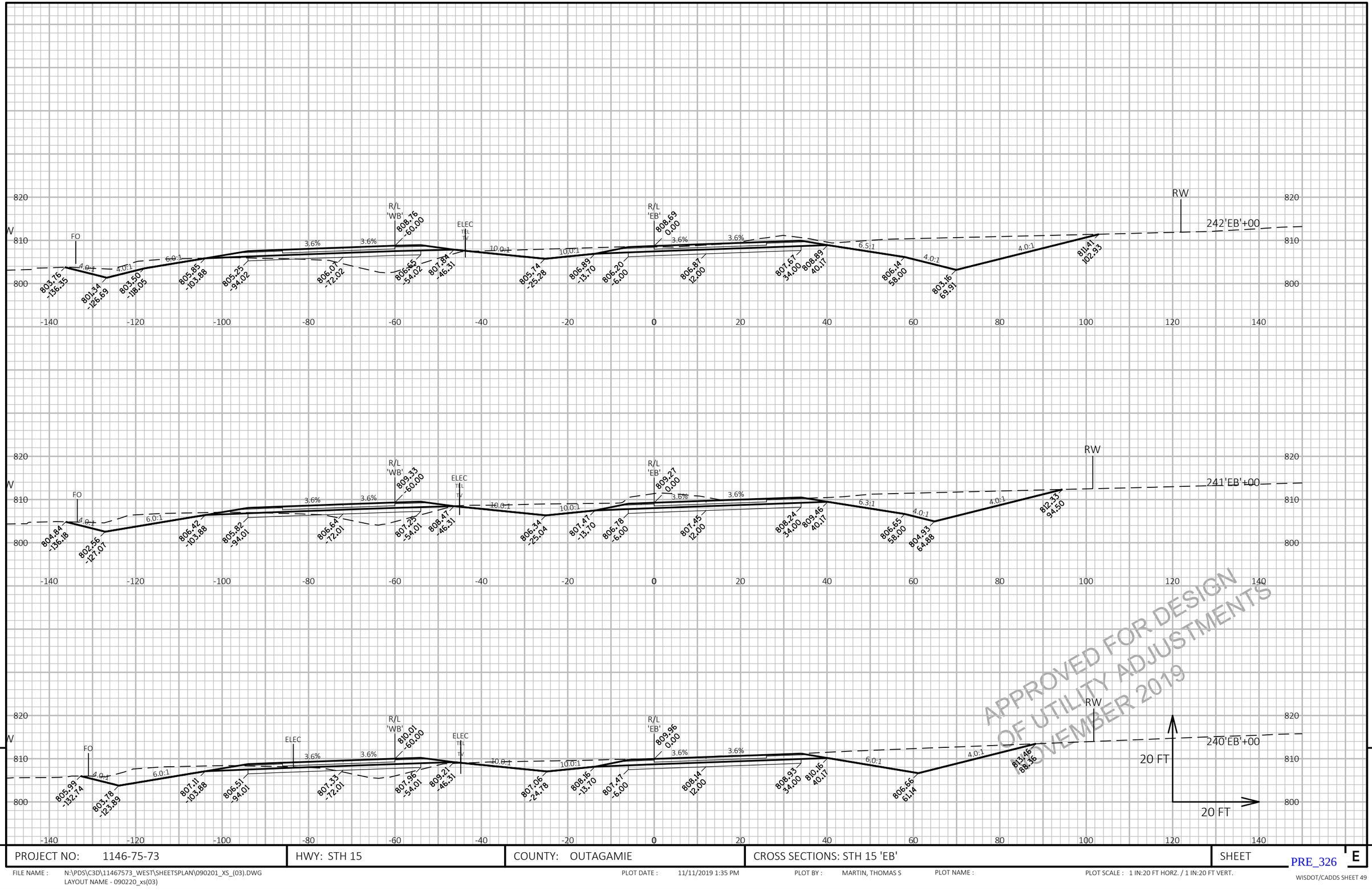
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

9 9

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E



APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

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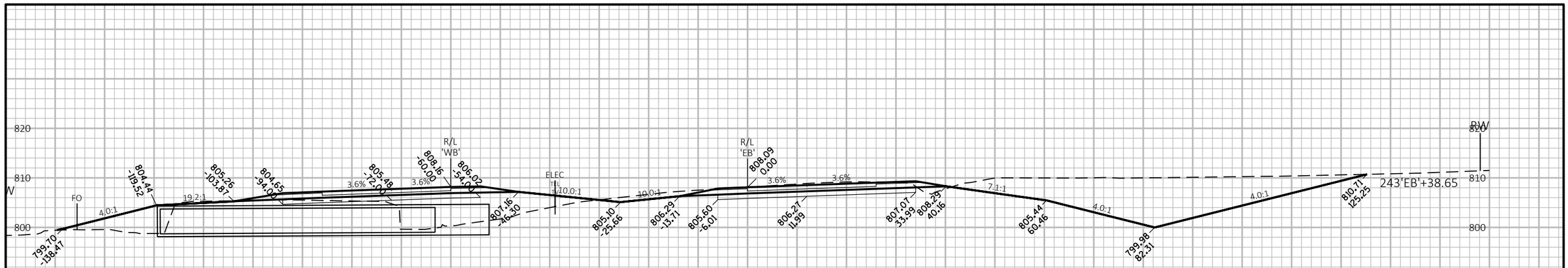
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET

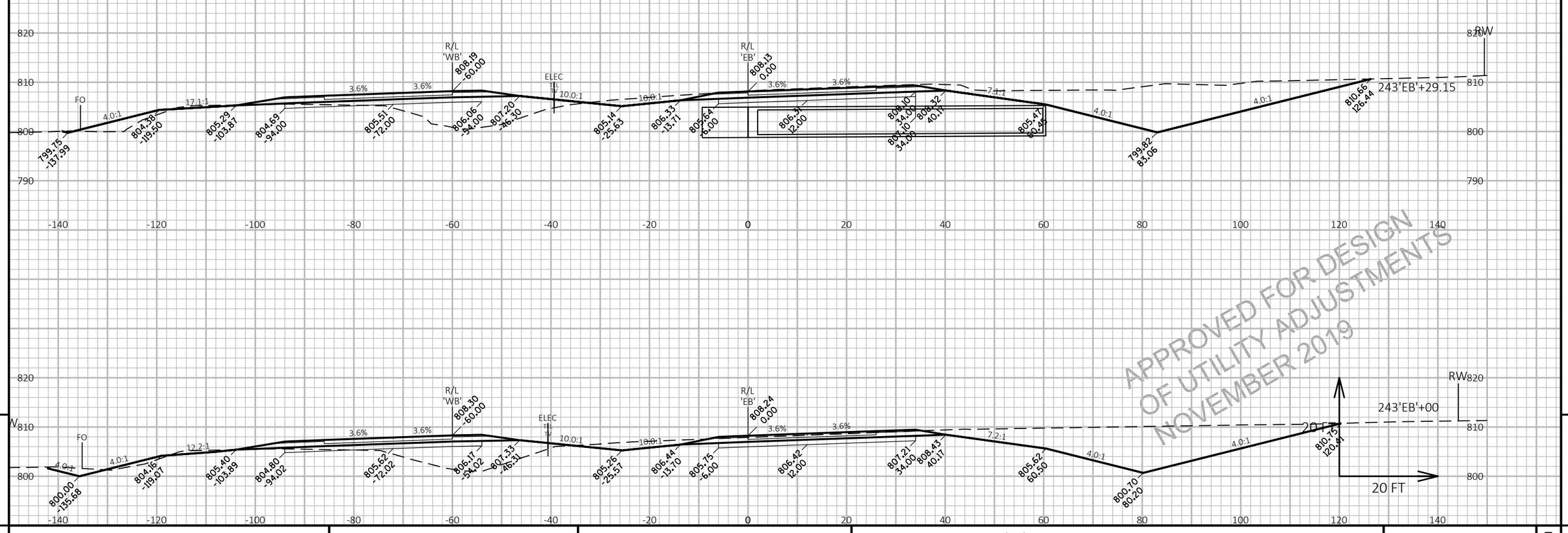
PRE_326 E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(03).DWG
LAYOUT NAME - 090220_xs(03)

PLOT DATE : 11/11/2019 1:35 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49





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NOVEMBER 2019

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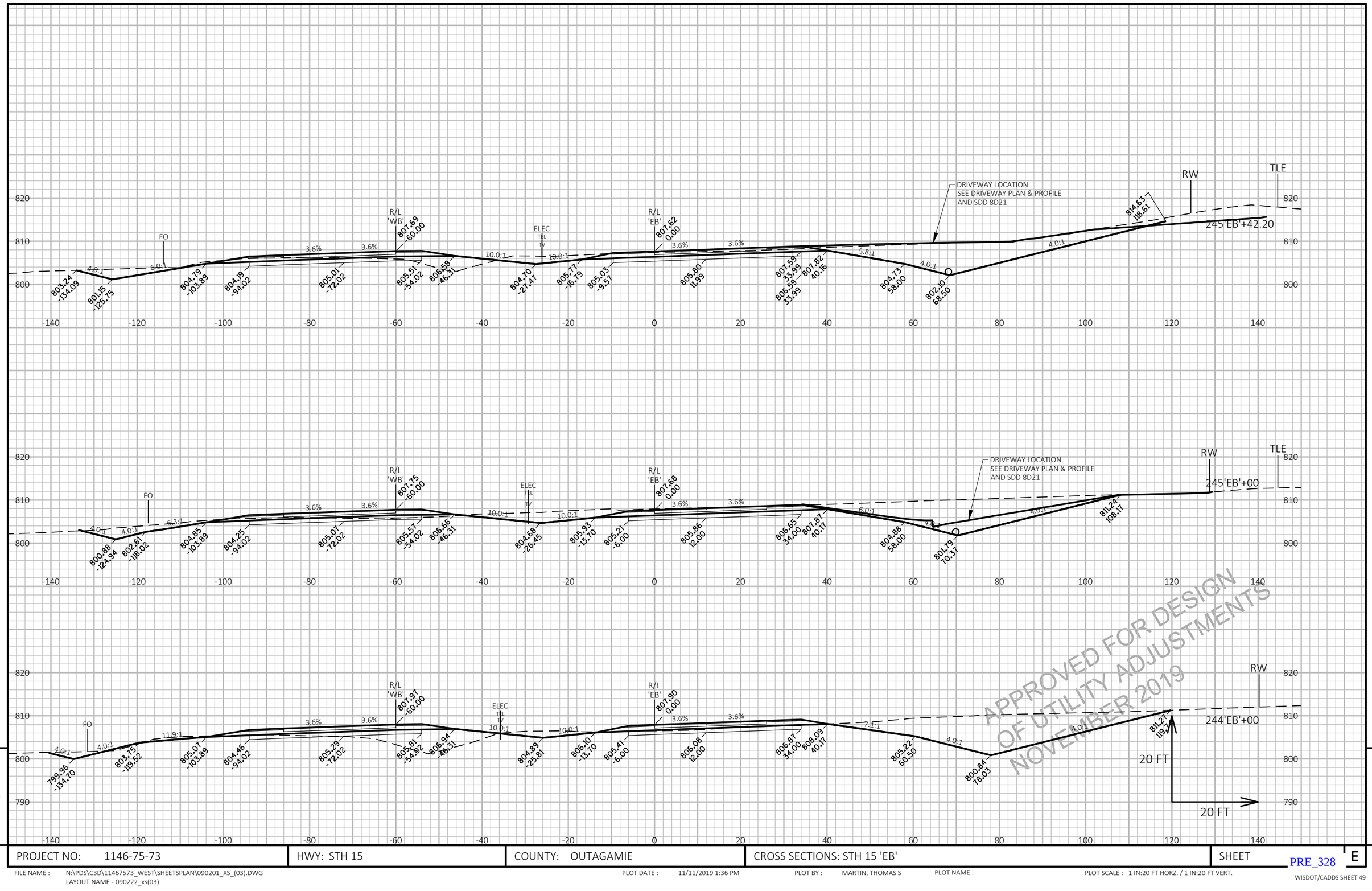
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E

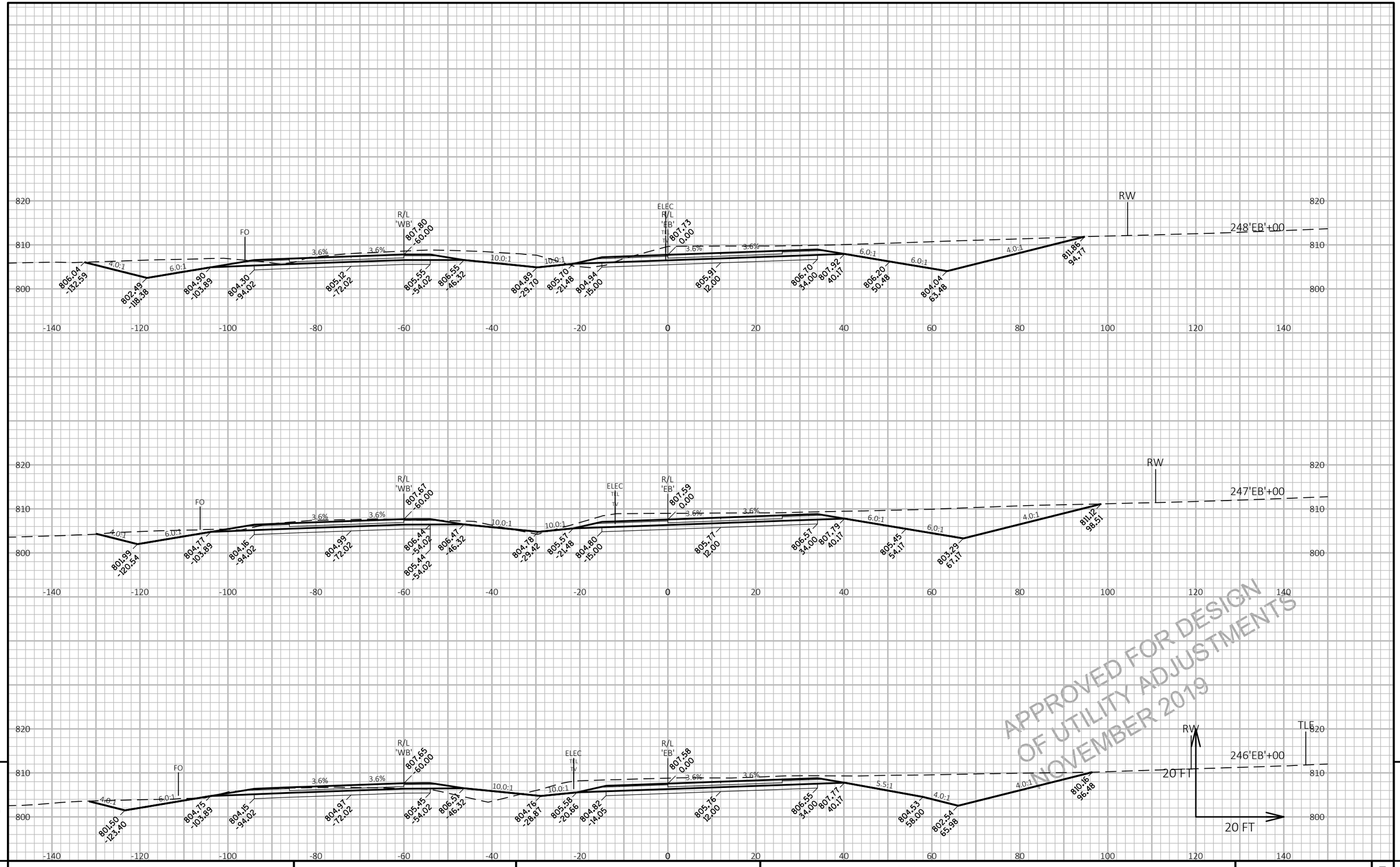


PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET PRE_328 E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(03).DWG
LAYOUT NAME - 090222_xs(03)

PLOT DATE : 11/11/2019 1:36 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E

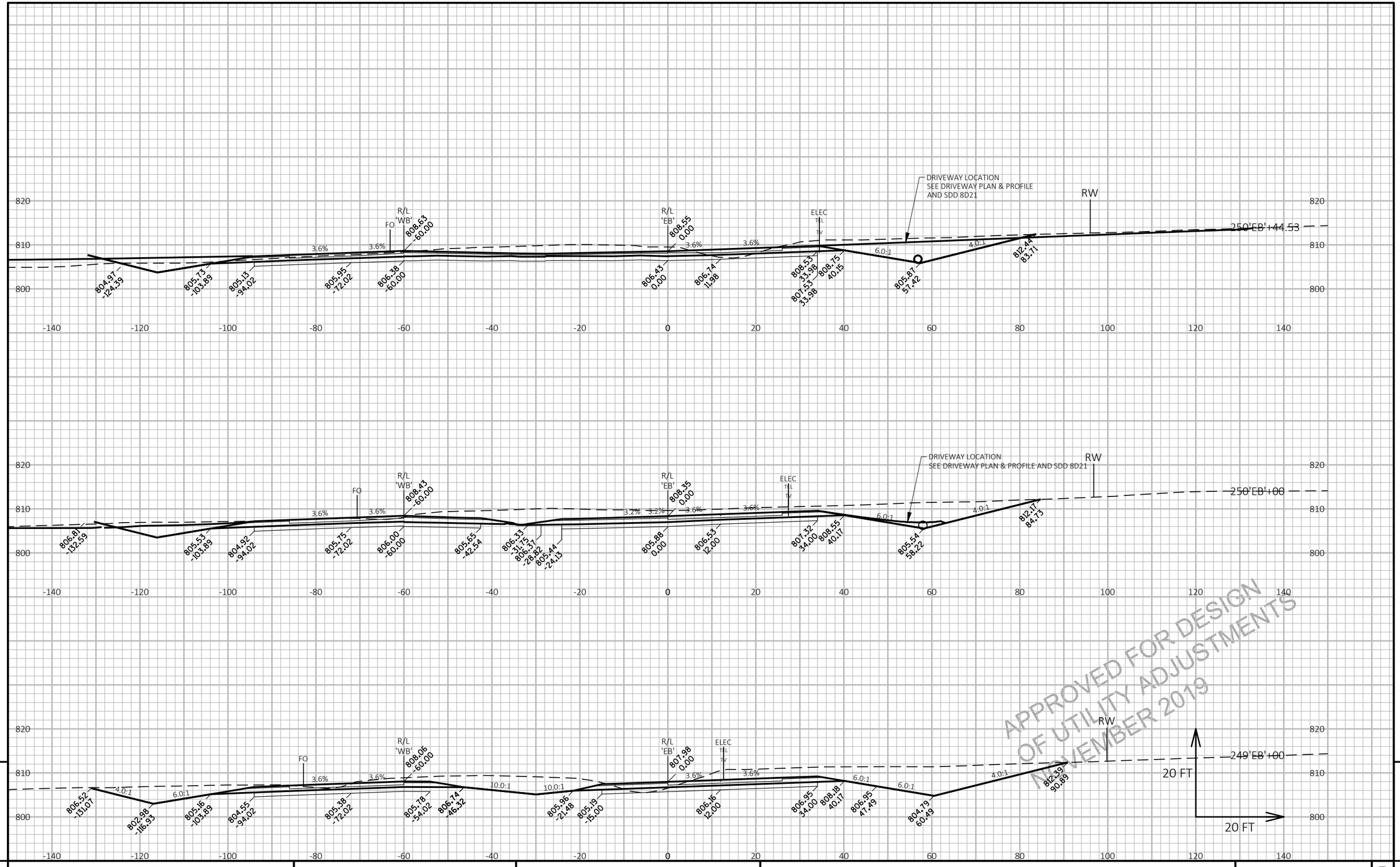
FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(03).DWG
LAYOUT NAME - 090223_xs(03)

PLOT DATE : 11/11/2019 1:36 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_329

WISDOT/CADDS SHEET 49

9 9



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NOVEMBER 2019

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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET

PRE_330

E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(03).DWG
LAYOUT NAME - 090224_xs(03)

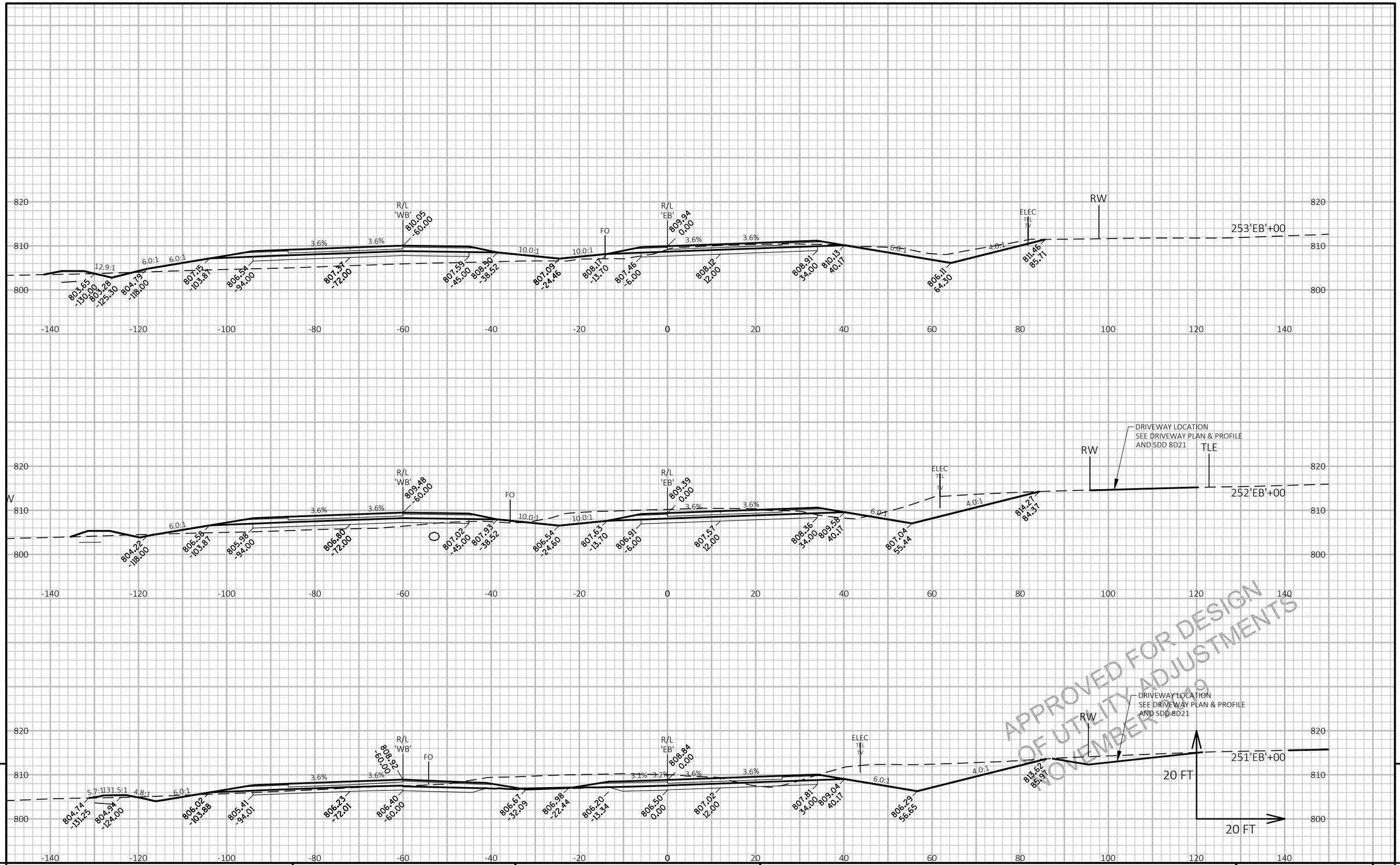
PLOT DATE : 11/11/2019 1:36 PM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



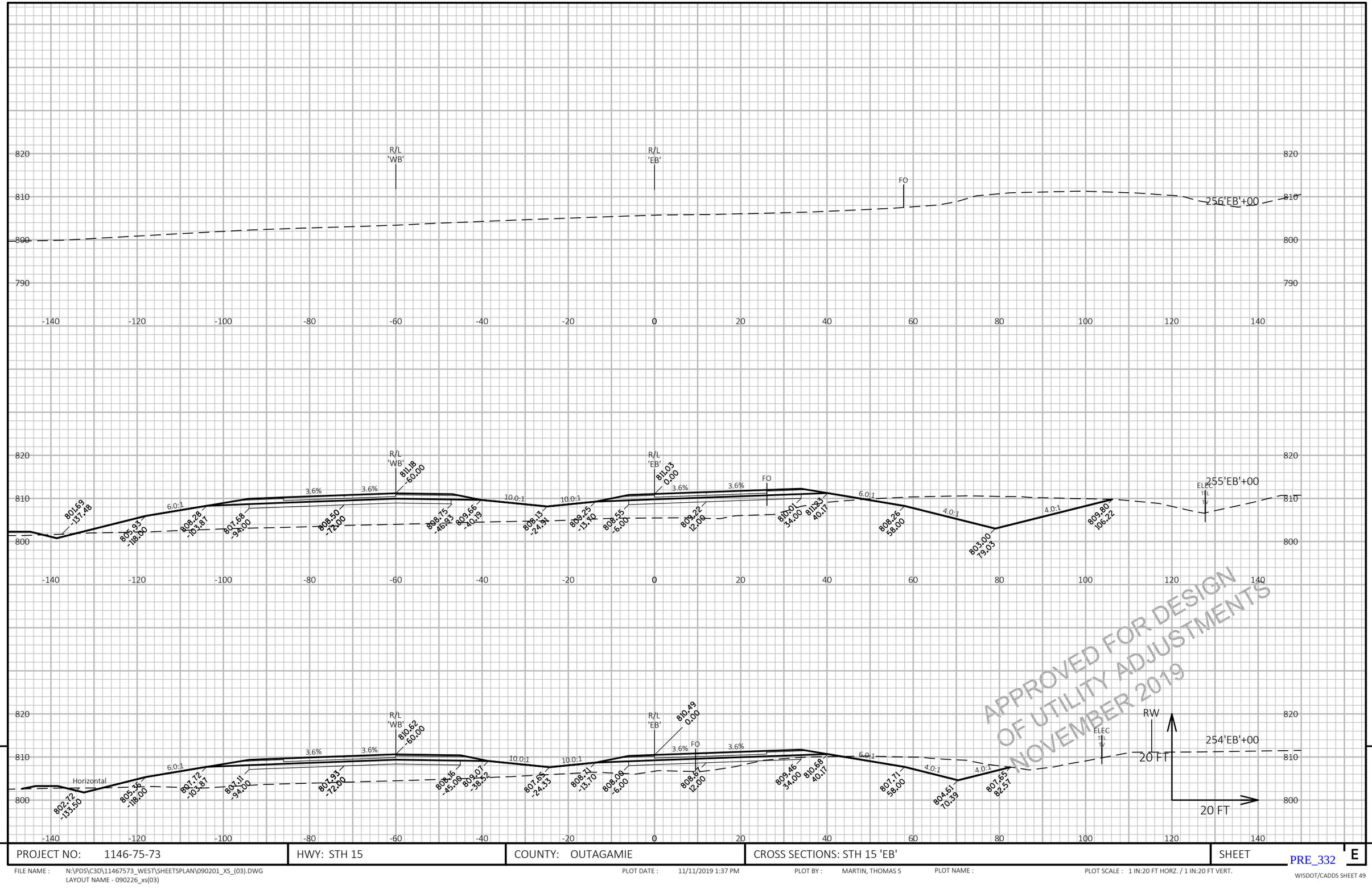
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(03).DWG
LAYOUT NAME - 090225_xs(03)

PLOT DATE : 11/11/2019 1:37 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_331

WISDOT/CADDS SHEET 49



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NOVEMBER 2019

9

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'EB'	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090201_XS_(03).DWG
LAYOUT NAME - 090226_xs(03)

PLOT DATE : 11/11/2019 1:37 PM

PLOT BY : MARTIN, THOMAS S

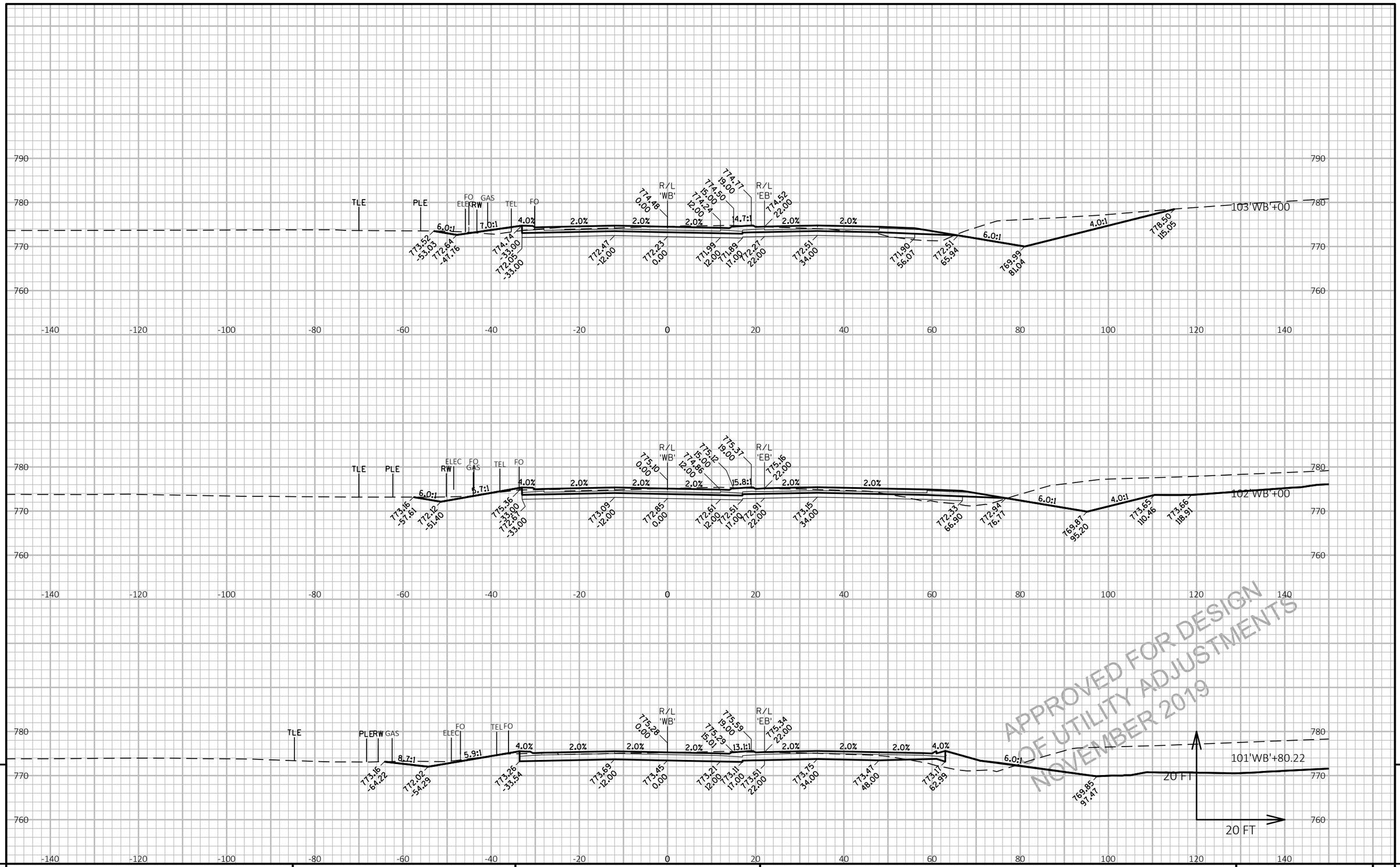
PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_332

WISDOT/CADDS SHEET 49

9



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NOVEMBER 2019

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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

PRE_333

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(01).DWG
LAYOUT NAME - 090301_xs(01)

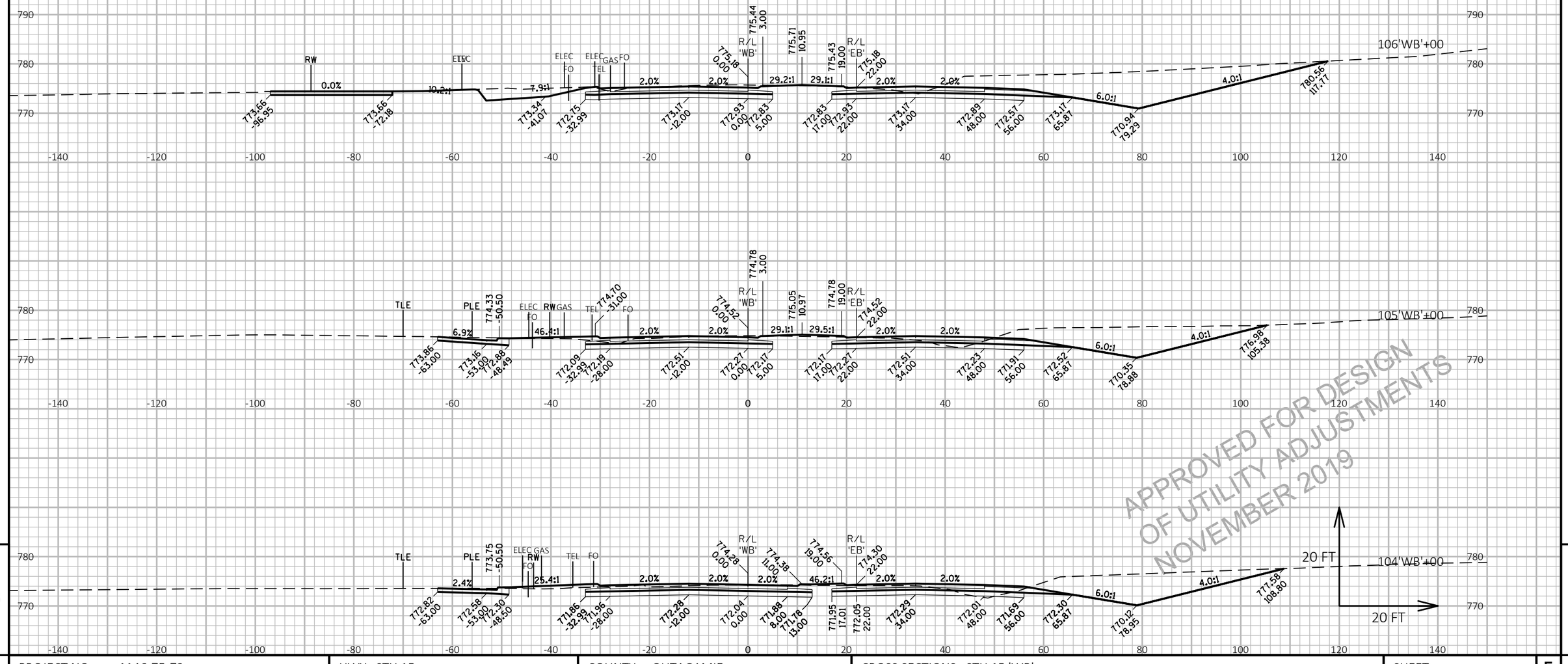
PLOT DATE : 11/7/2019 1:17 PM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(01).DWG
LAYOUT NAME - 090302_xs(01)

PLOT DATE : 11/7/2019 1:18 PM

PLOT BY : MARTIN, THOMAS S

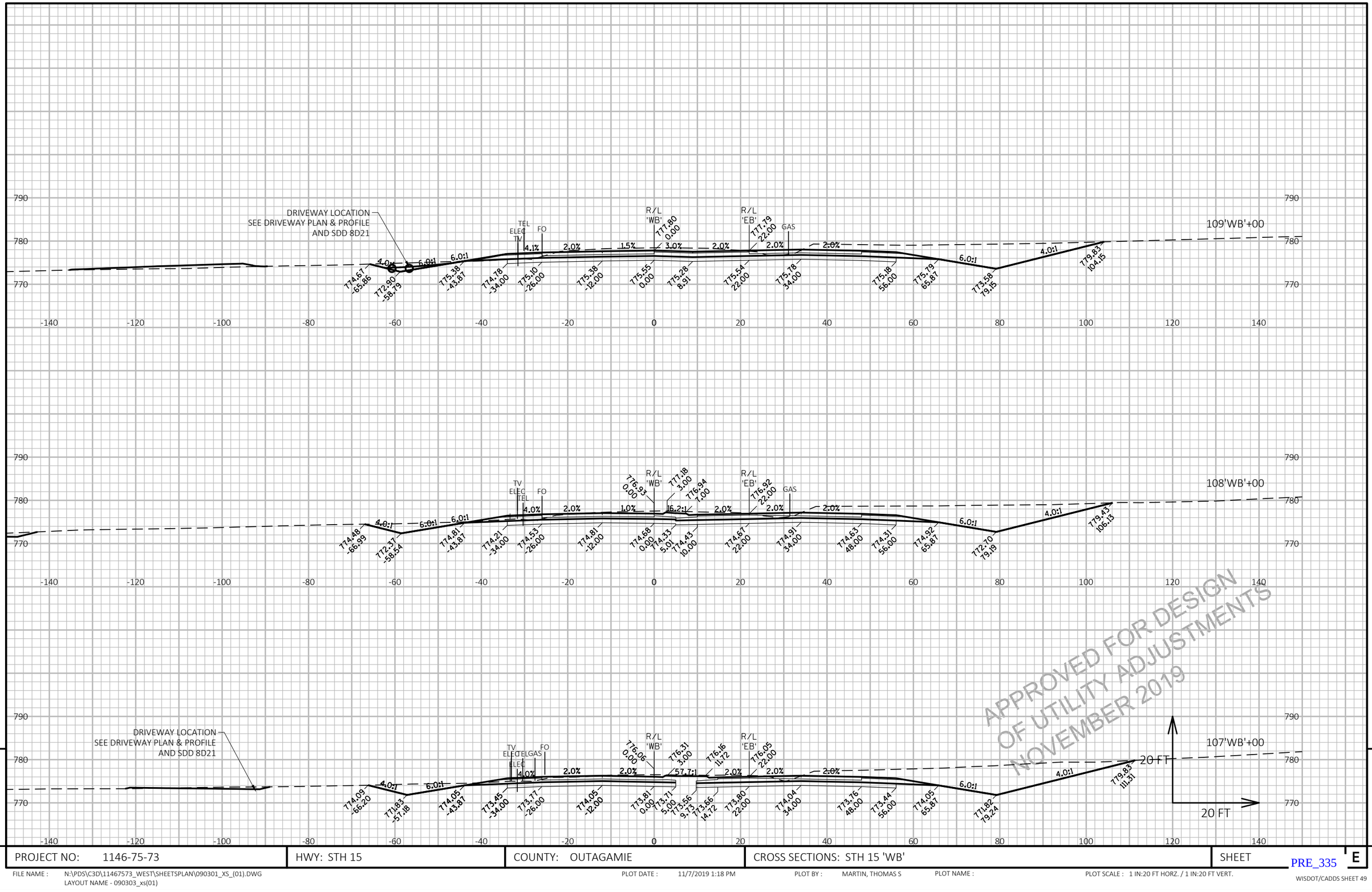
PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_334

E

WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(01).DWG
LAYOUT NAME - 090303_xs(01)

PLOT DATE : 11/7/2019 1:18 PM

PLOT BY : MARTIN, THOMAS S

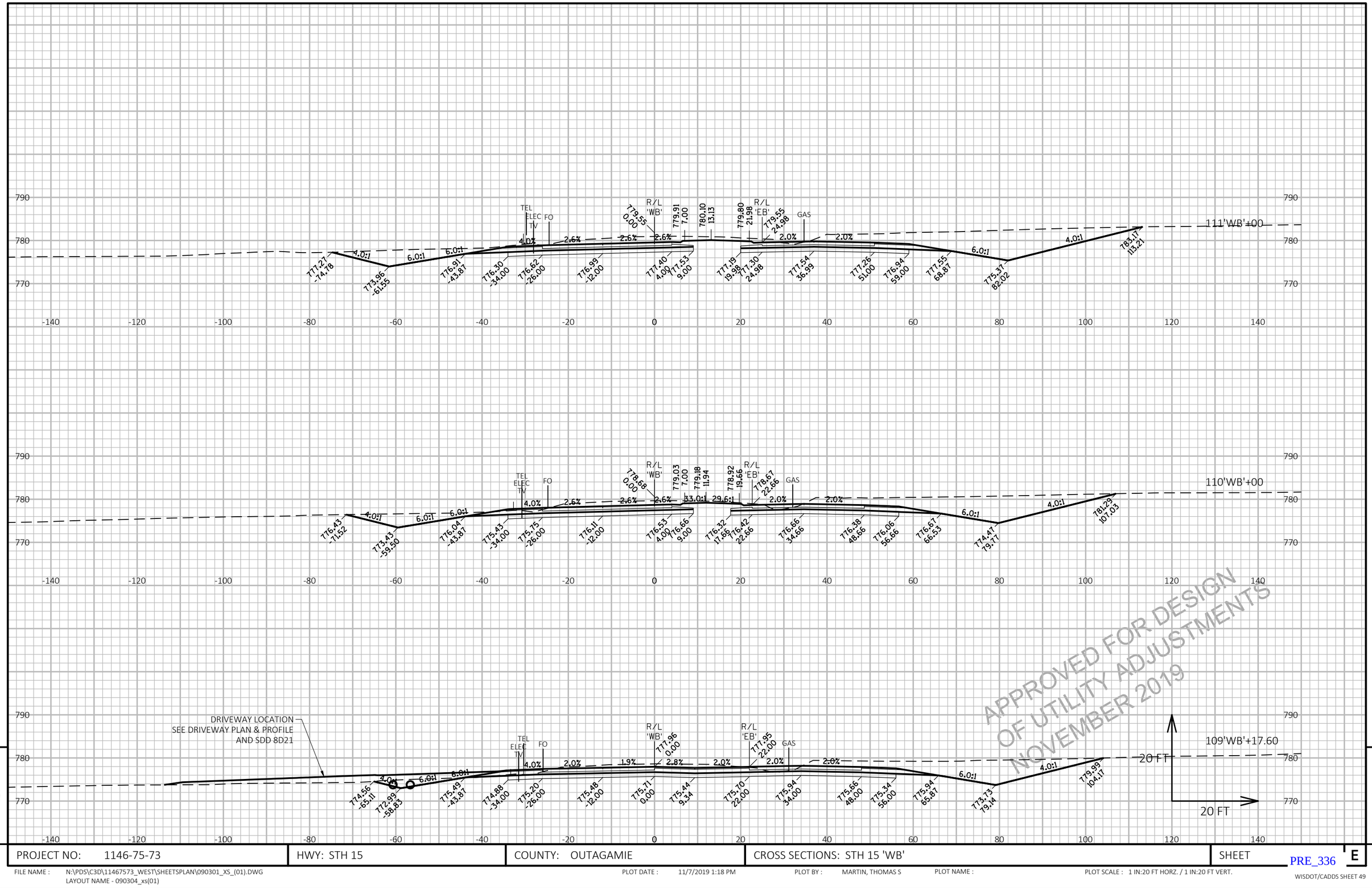
PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_335

E

WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(01).DWG
LAYOUT NAME - 090304_xs(01)

PLOT DATE : 11/7/2019 1:18 PM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

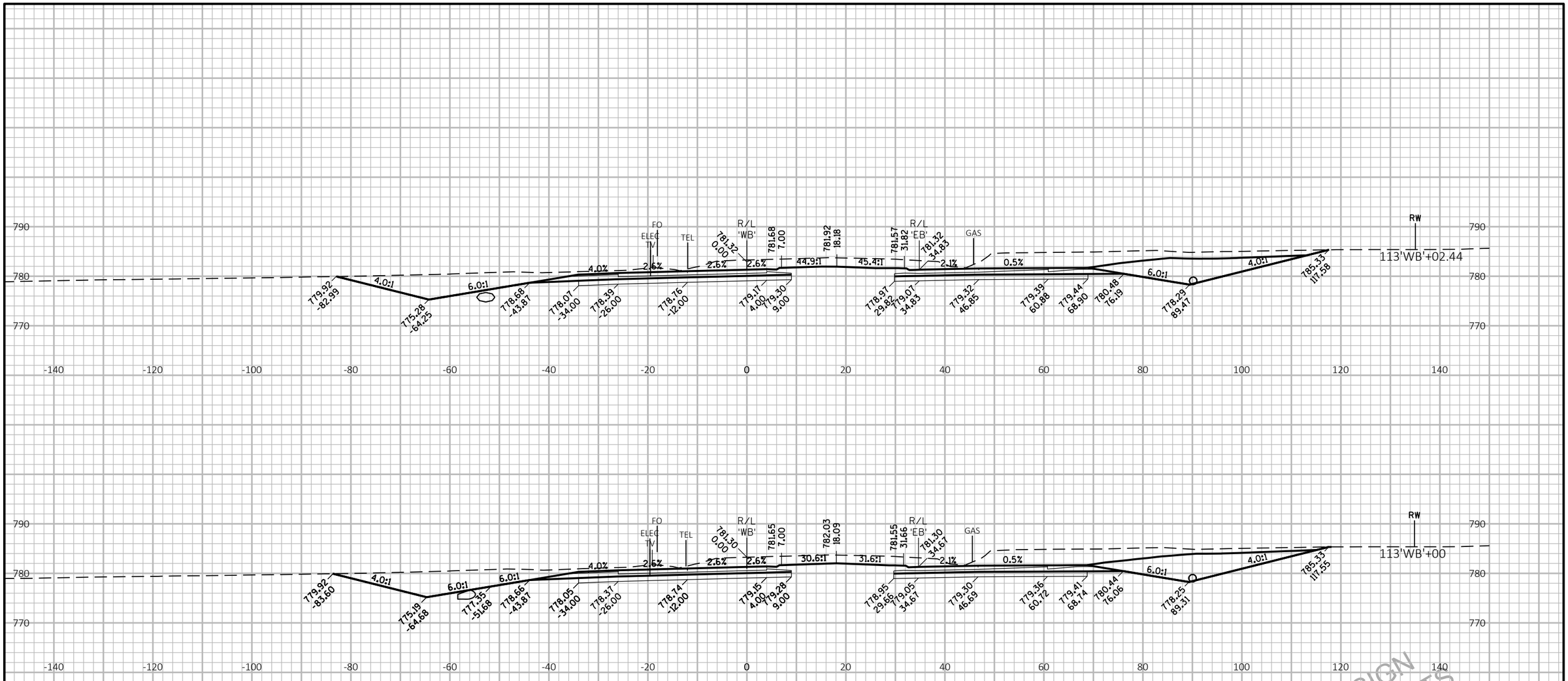
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_336

WISDOT/CADDS SHEET 49

9

E



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NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET

PRE_337

E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(01).DWG
LAYOUT NAME - 090305_xs(01)

PLOT DATE : 11/7/2019 1:18 PM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

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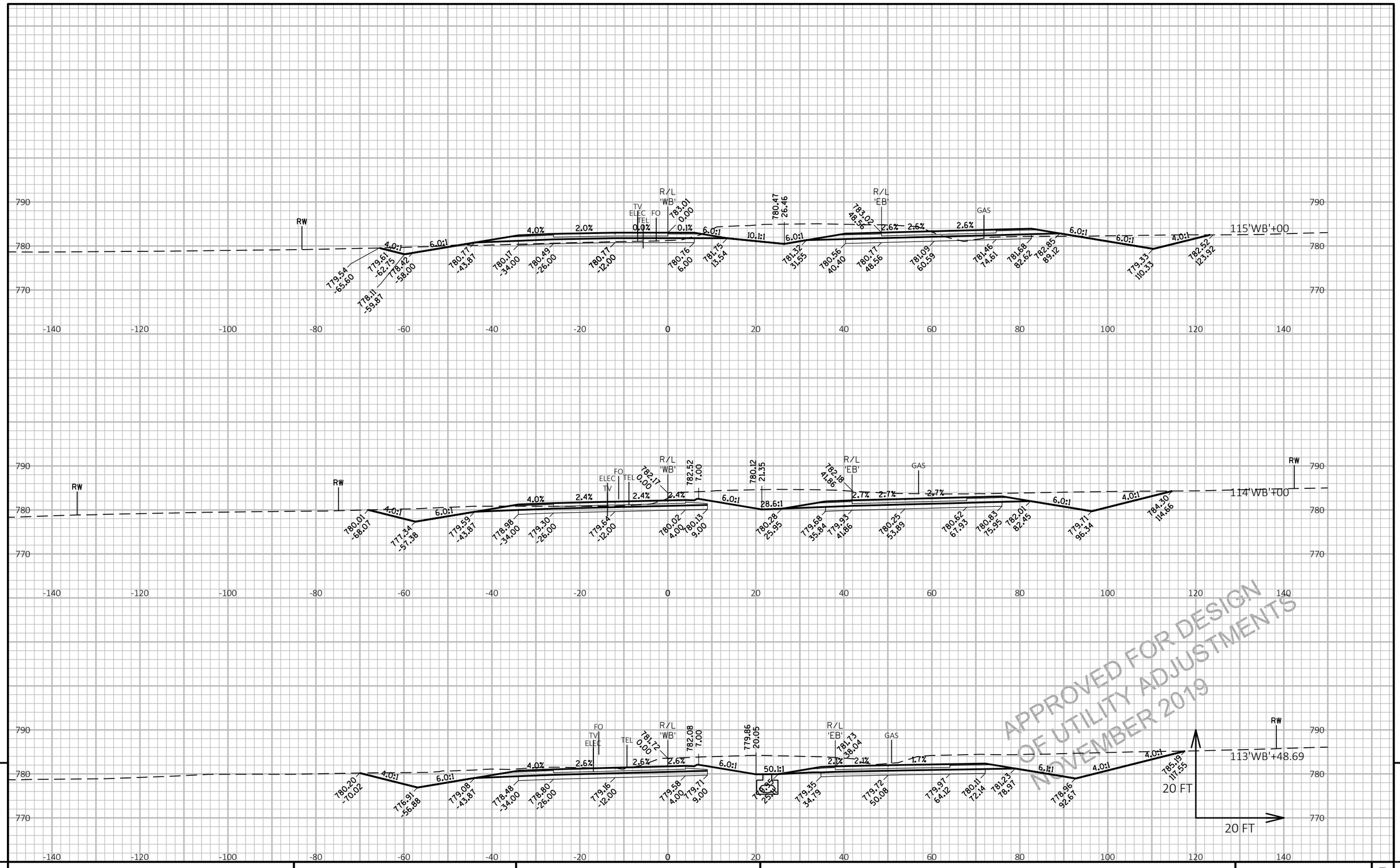


PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET PRE_338 E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(01).DWG
LAYOUT NAME - 090306_xs(01)

PLOT DATE : 11/7/2019 1:19 PM

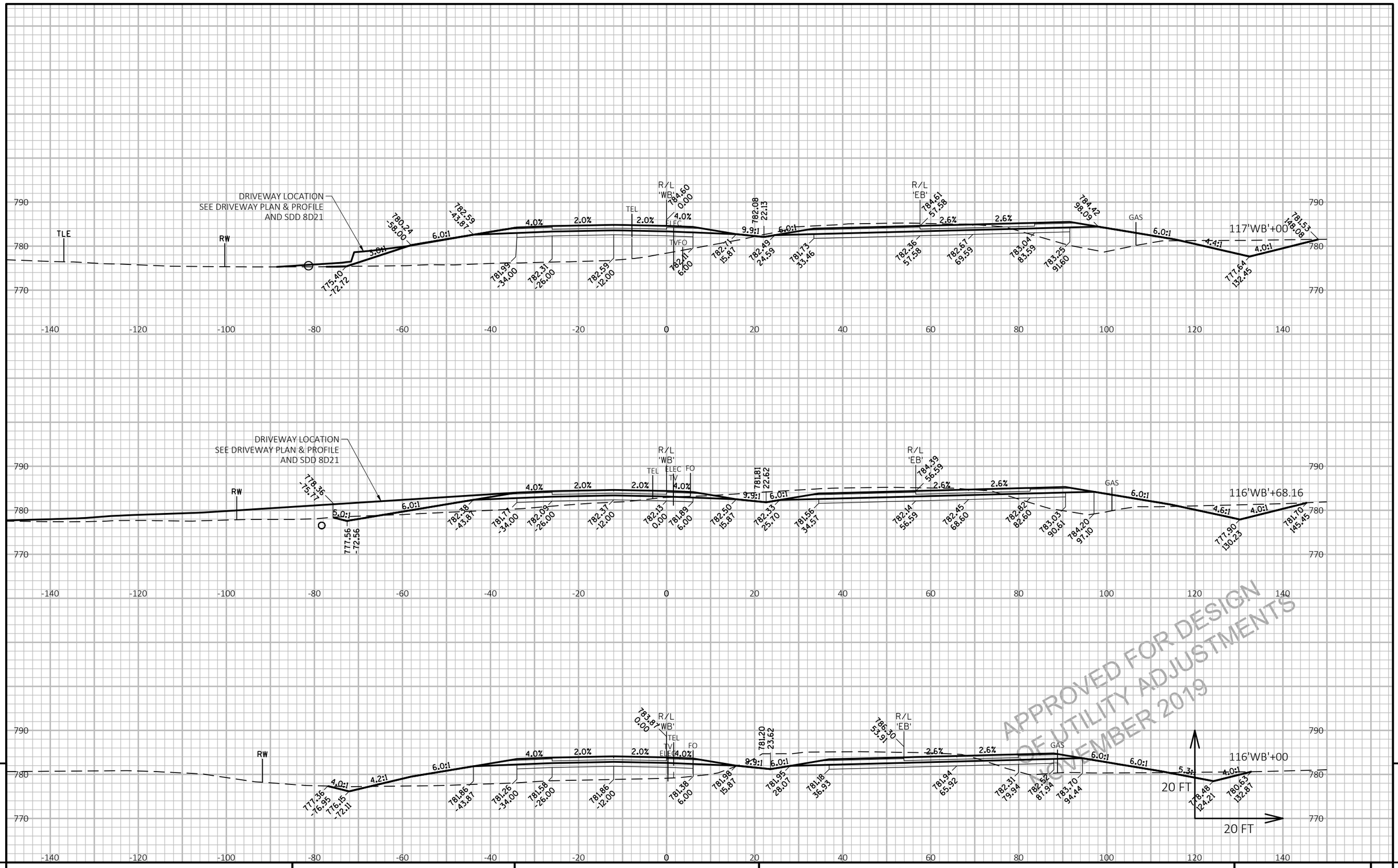
PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

9



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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

PRE_339

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(01).DWG
LAYOUT NAME - 090307_xs(01)

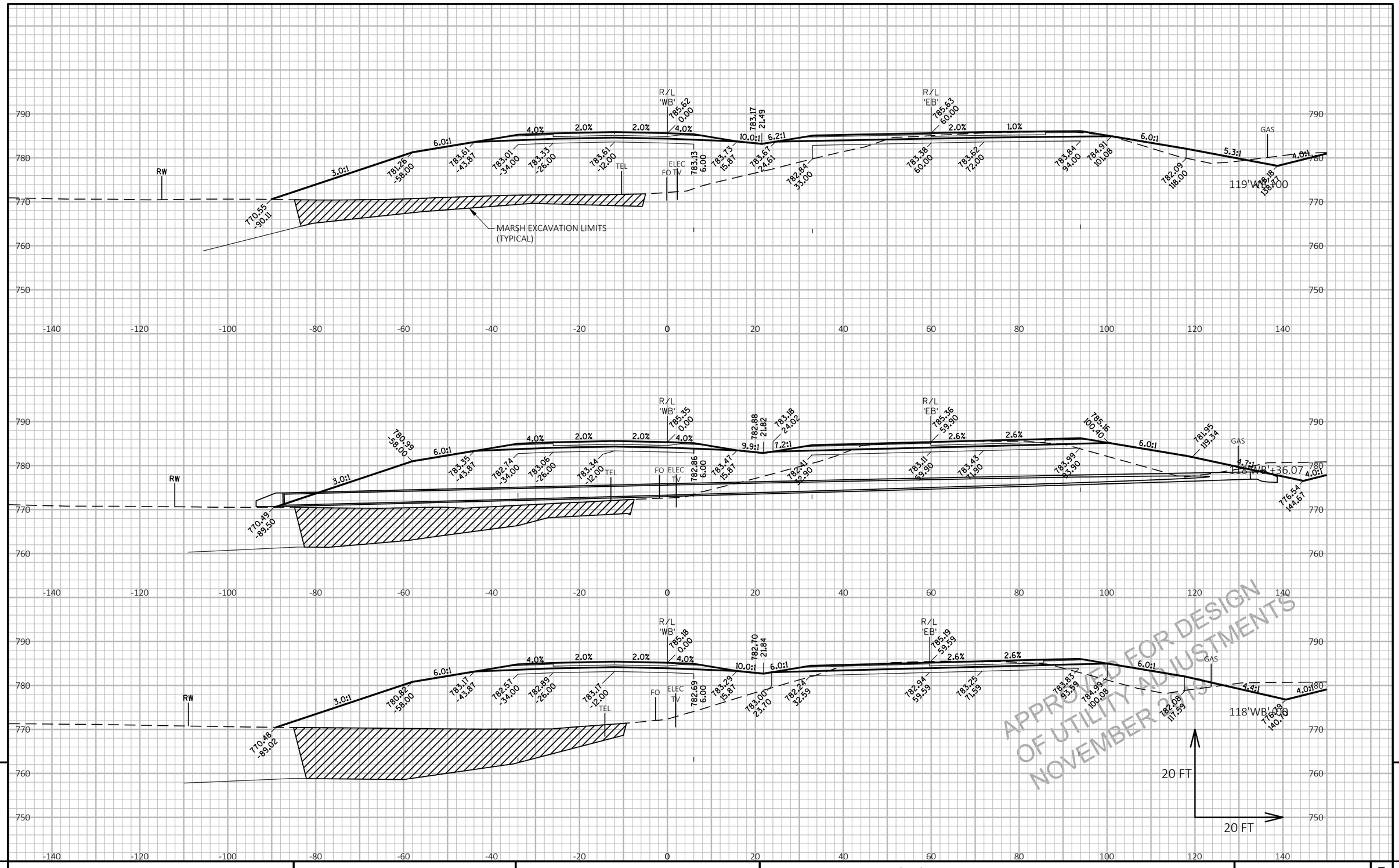
PLOT DATE : 11/7/2019 1:19 PM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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NOVEMBER 2019

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20 FT

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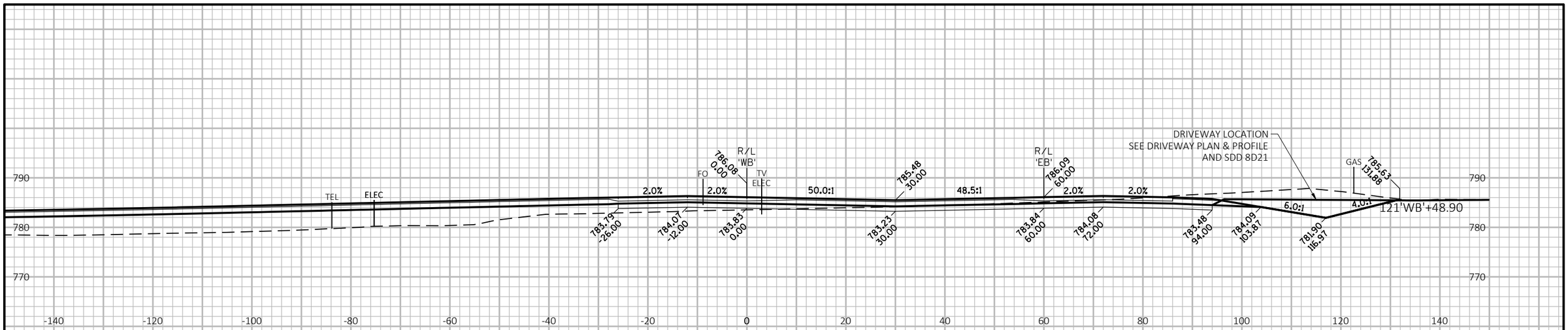
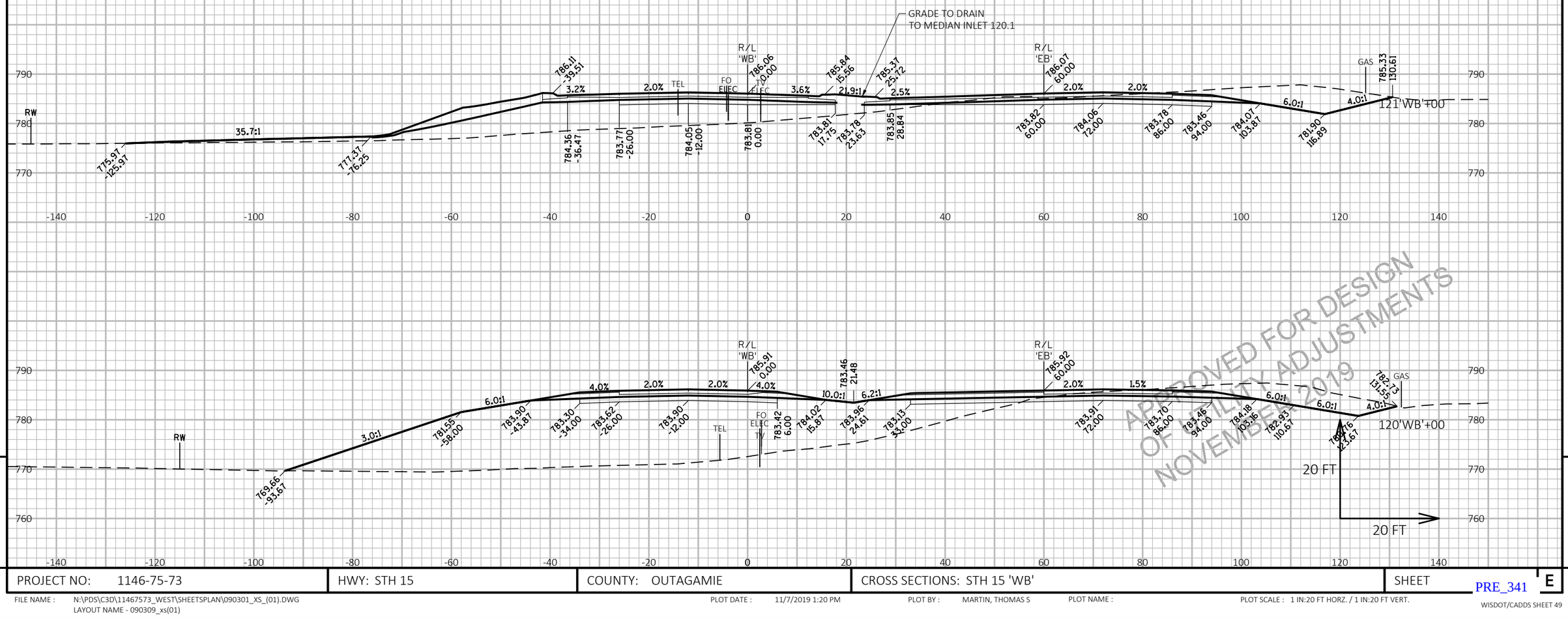
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

PRE_340

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(01).DWG
LAYOUT NAME - 090308_xs(01)

PLOT DATE : 11/7/2019 1:19 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.





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OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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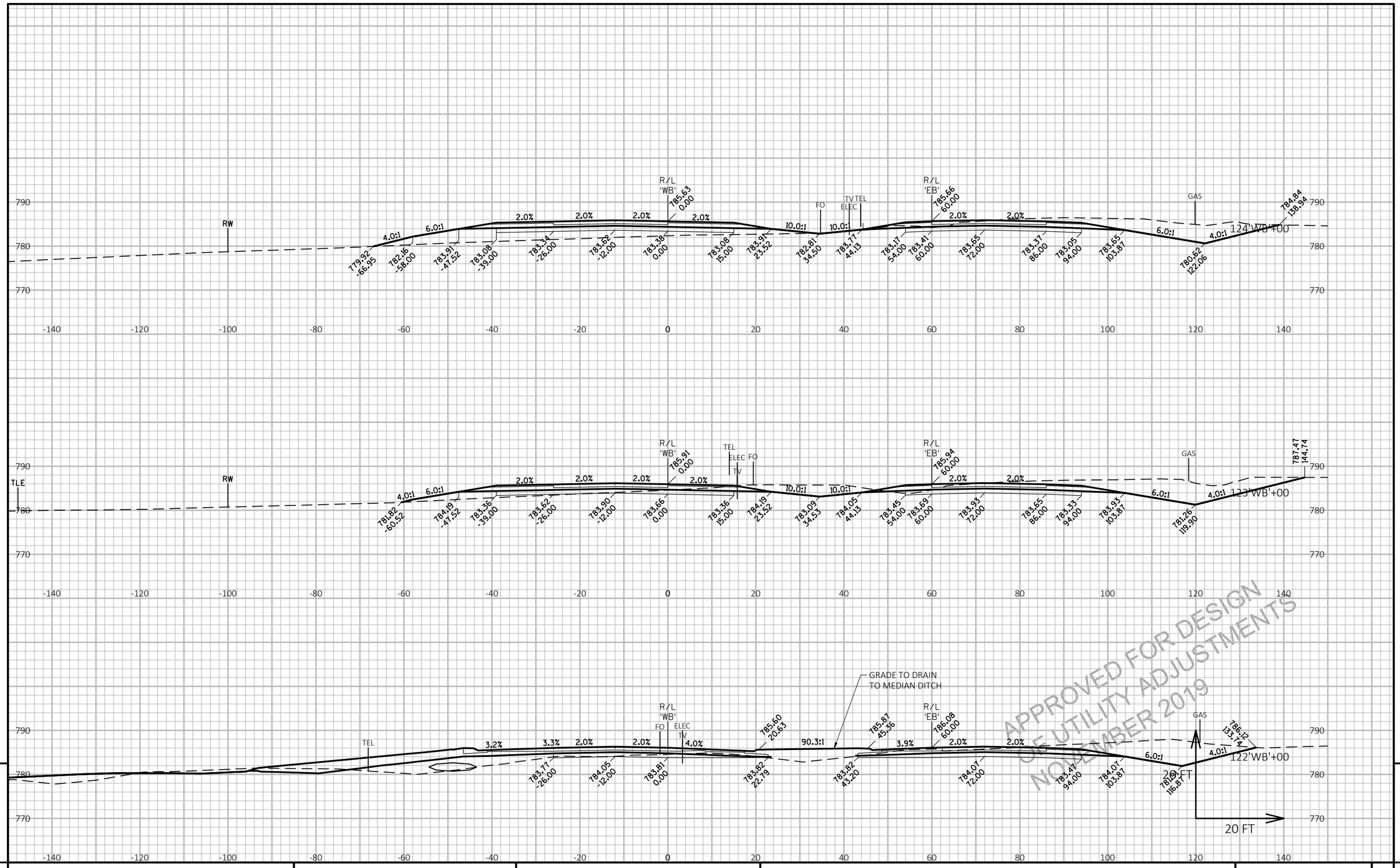
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

PRE_341

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(01).DWG
LAYOUT NAME - 090309_xs(01)

PLOT DATE : 11/7/2019 1:20 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

PRE_342

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(01).DWG
LAYOUT NAME - 090310_xs(01)

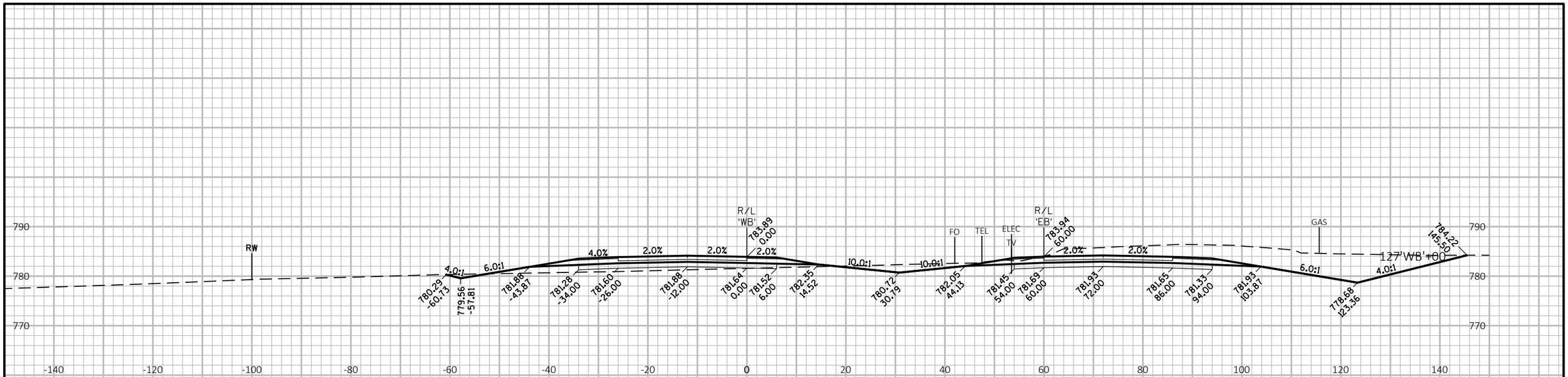
PLOT DATE : 11/7/2019 1:20 PM

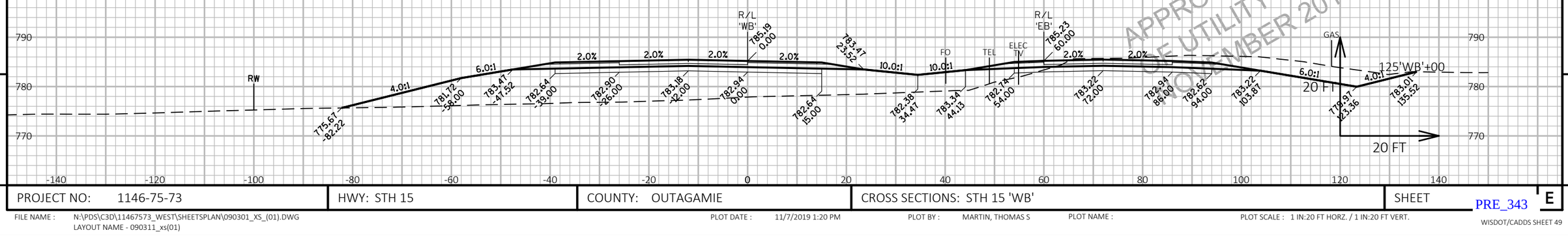
PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49





APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
DECEMBER 2019

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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

PRE_343

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(01).DWG
LAYOUT NAME - 090311_xs(01)

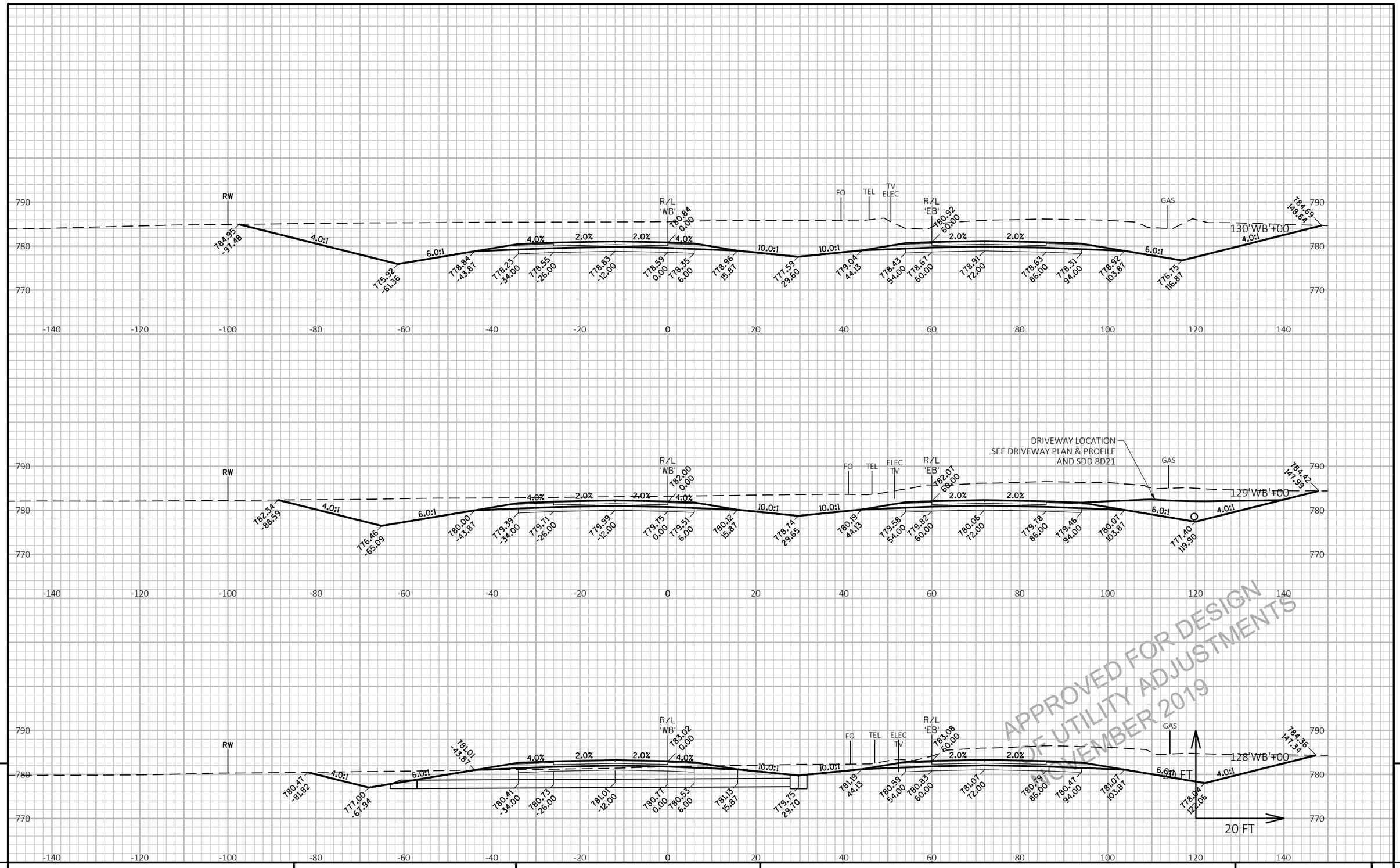
PLOT DATE : 11/7/2019 1:20 PM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET PRE_344 E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(01).DWG
LAYOUT NAME - 090312_xs(01)

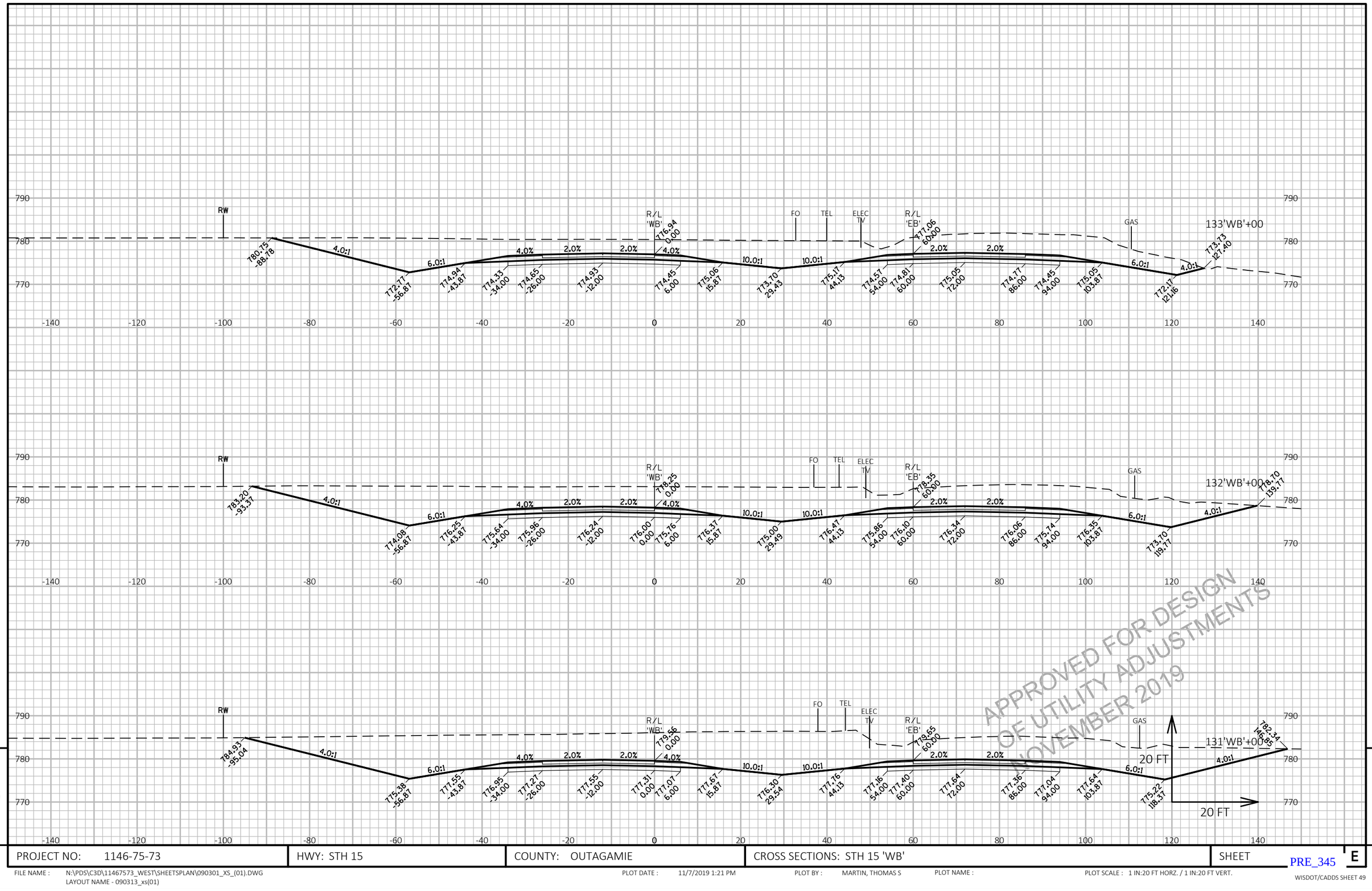
PLOT DATE : 11/7/2019 1:21 PM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET

PRE_345

E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(01).DWG
LAYOUT NAME - 090313_xs(01)

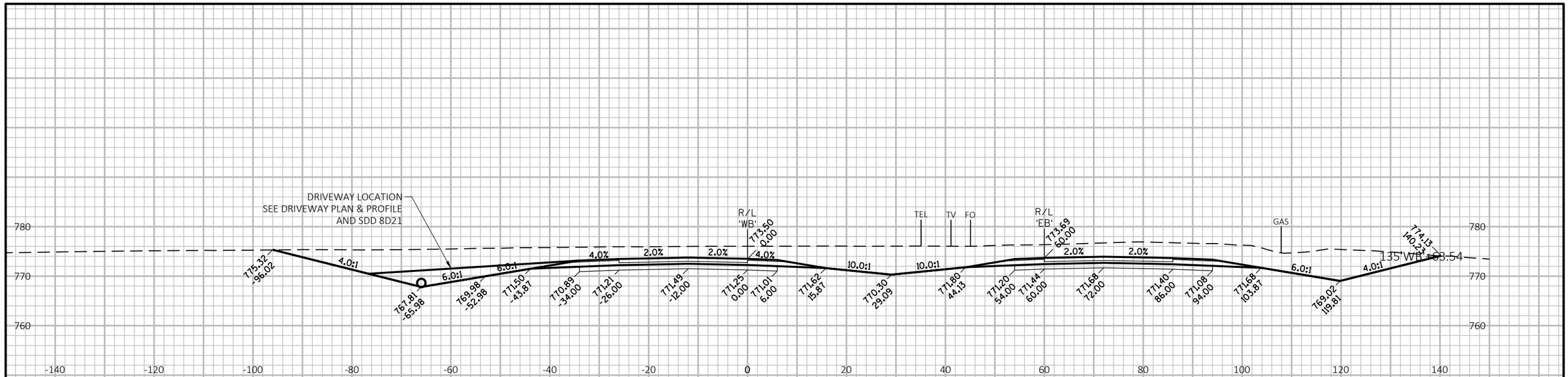
PLOT DATE : 11/7/2019 1:21 PM

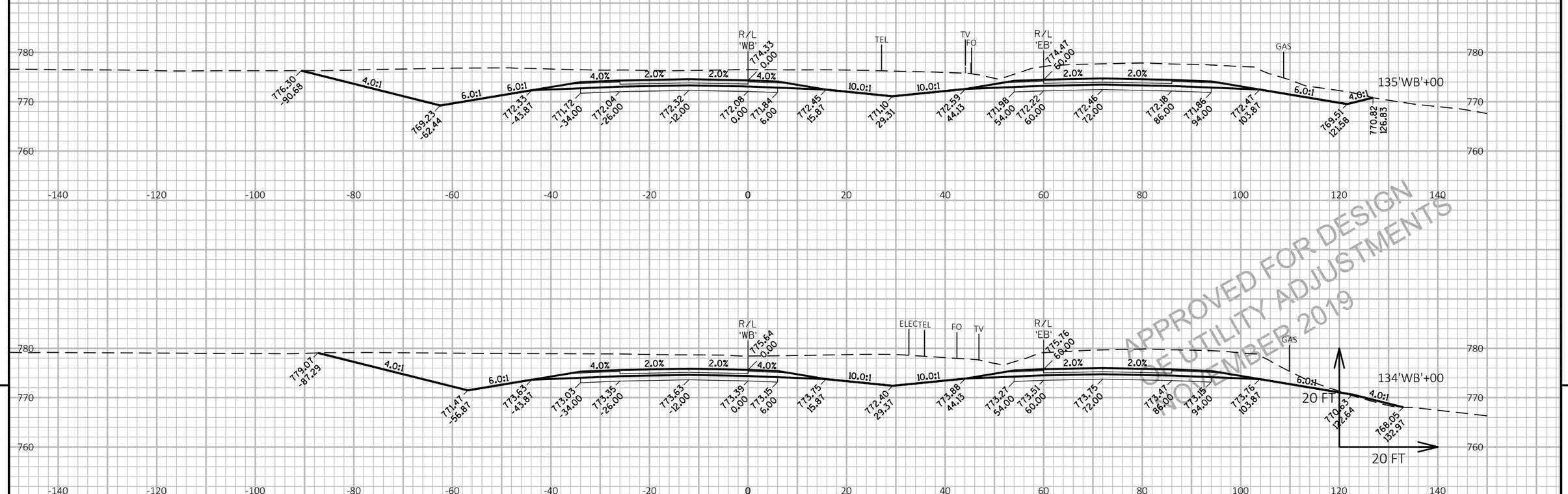
PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49





APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

PRE_346

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(01).DWG
LAYOUT NAME - 090314_xs(01)

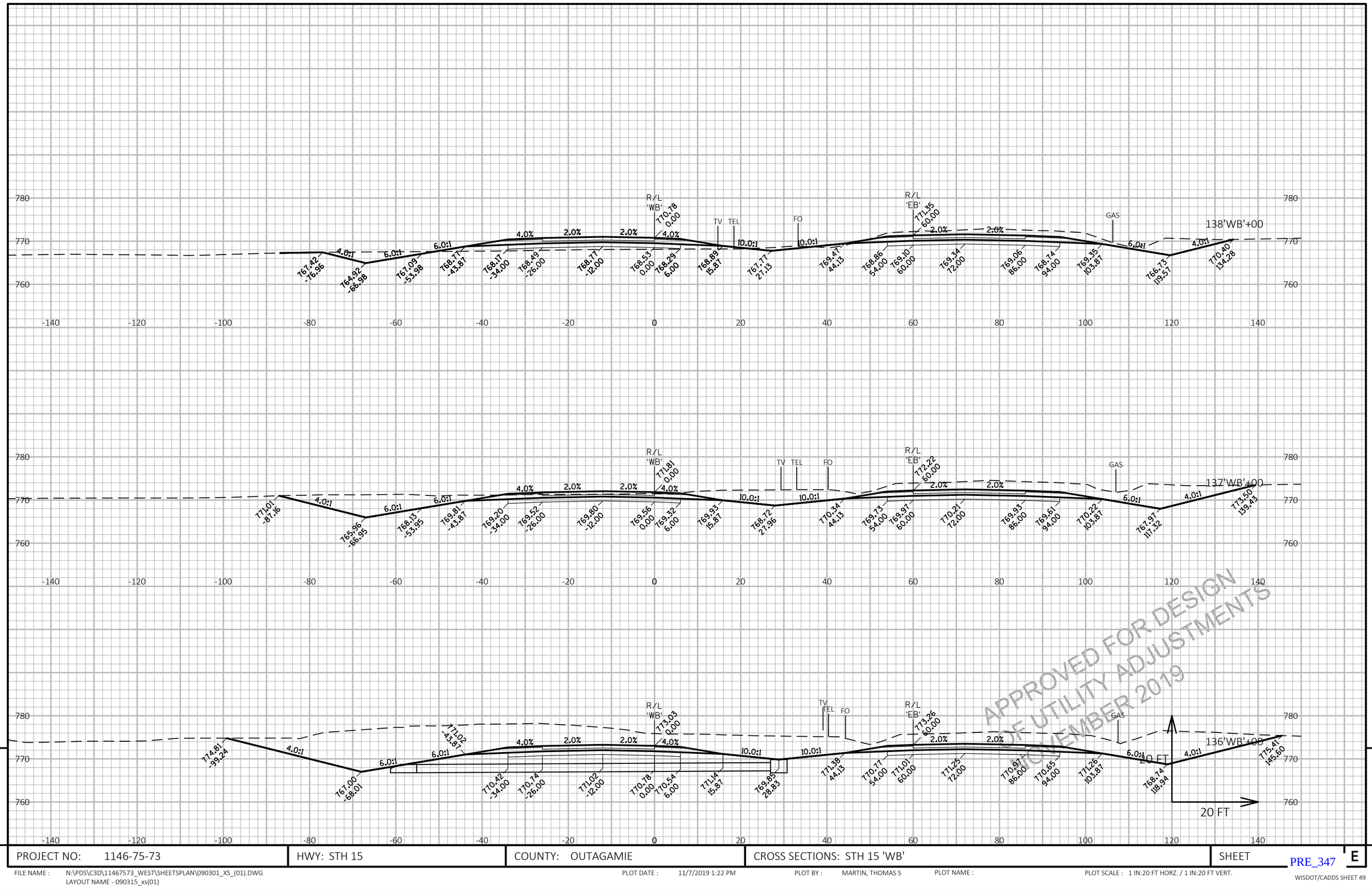
PLOT DATE : 11/7/2019 1:21 PM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(01).DWG
LAYOUT NAME - 090315_xs(01)

PLOT DATE : 11/7/2019 1:22 PM

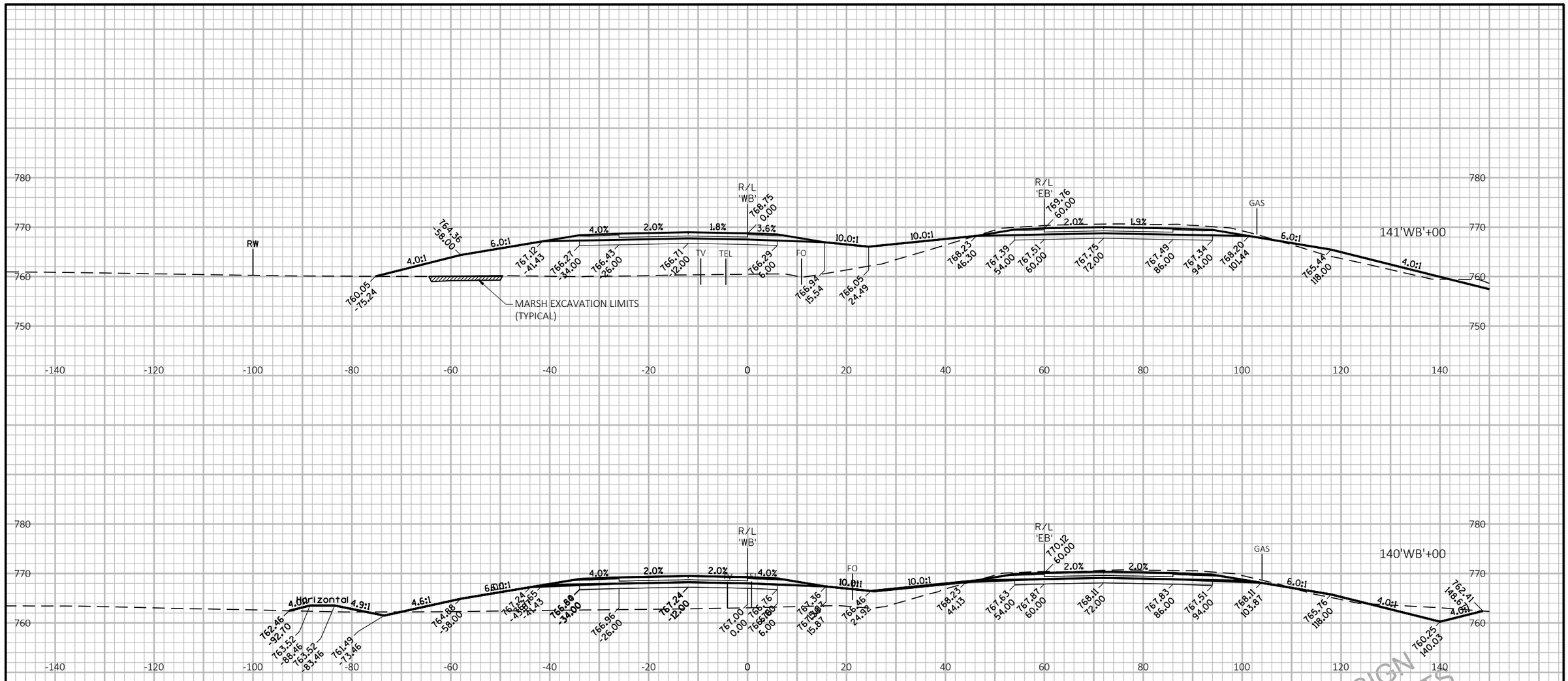
PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_347

WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(01).DWG
LAYOUT NAME - 090316_xs(01)

PLOT DATE : 11/7/2019 1:22 PM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_348

WISDOT/CADDS SHEET 49

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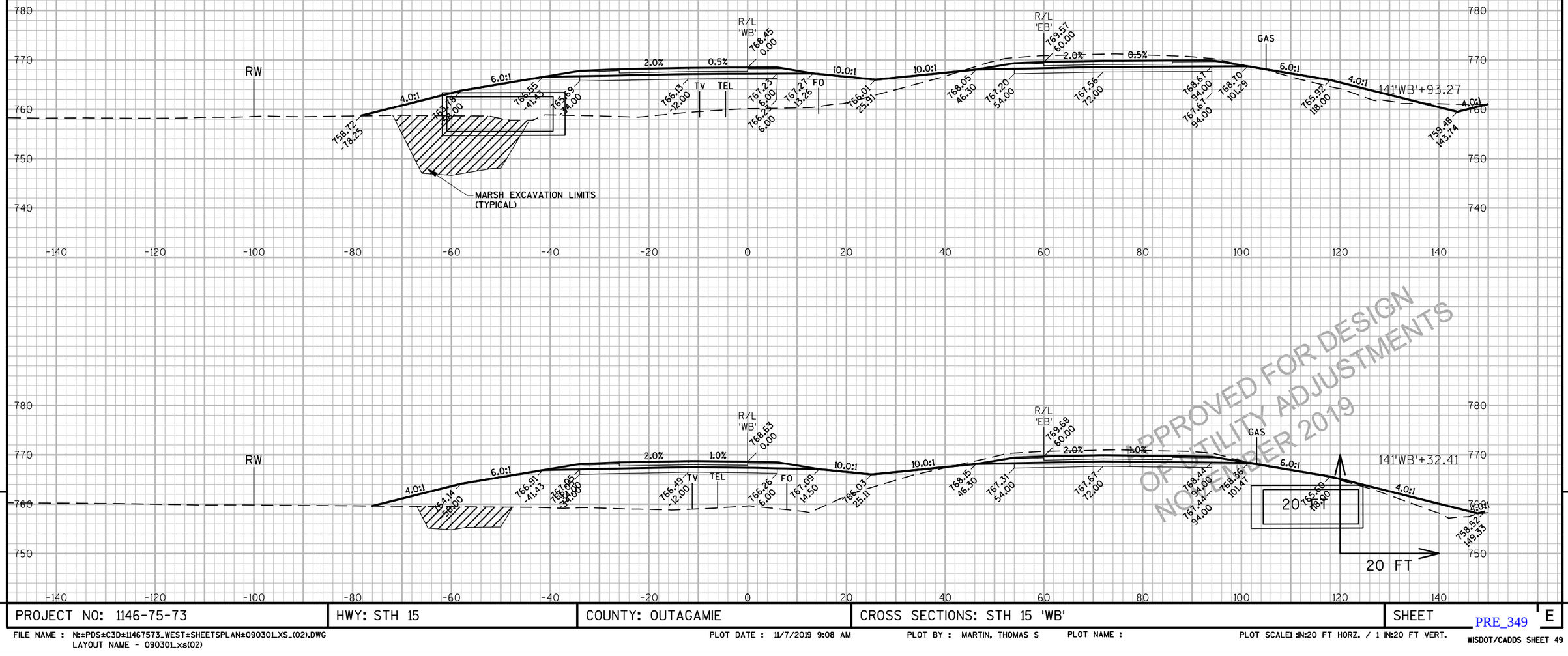

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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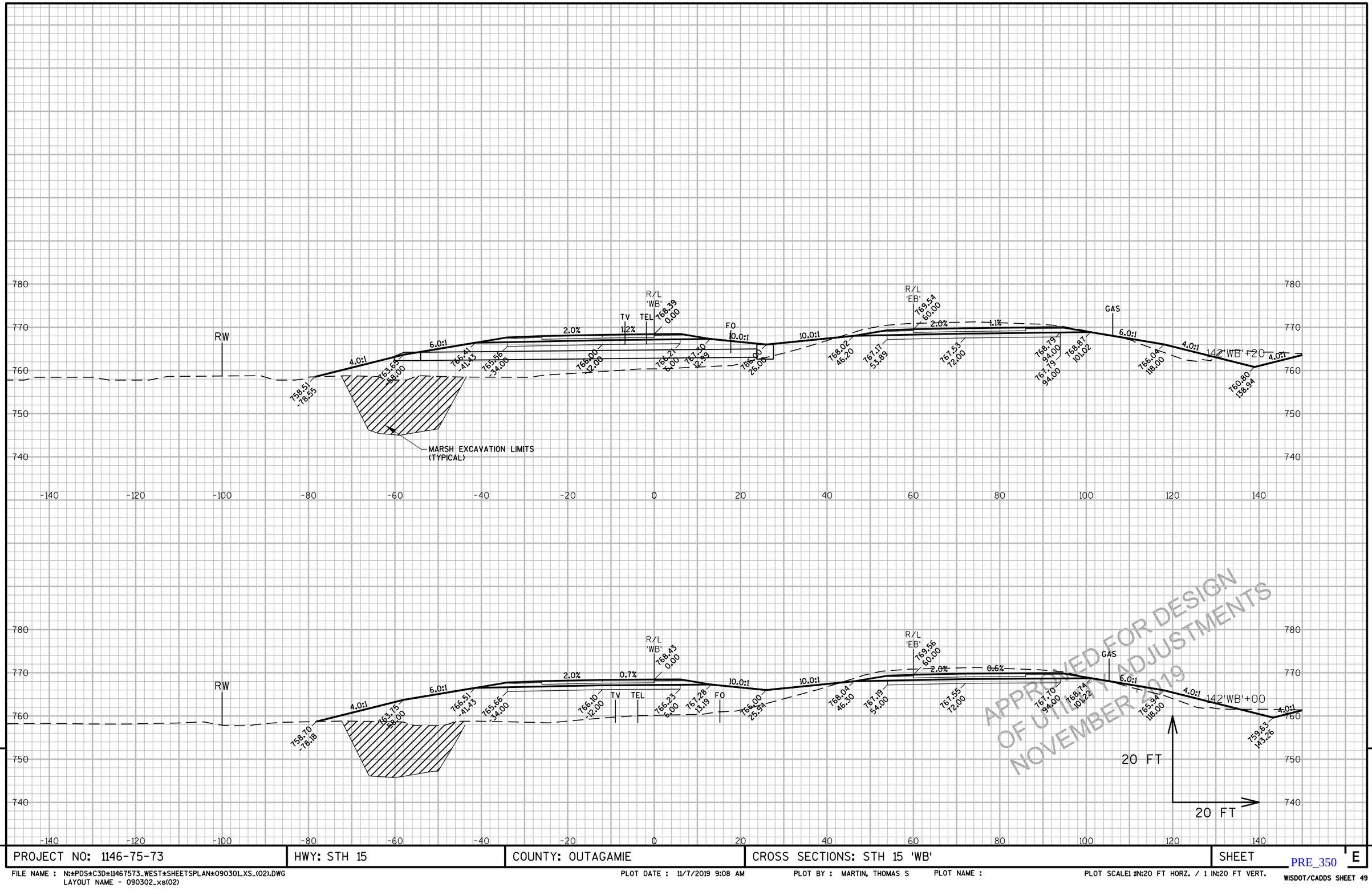
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

FILE NAME : N:±PDS±C3D±11467573_WEST±SHEETSPLAN±090301_XS_(02).DWG
LAYOUT NAME - 090301_xs(02)
PLOT DATE : 11/7/2019 9:08 AM
PLOT BY : MARTIN, THOMAS S
PLOT NAME :
PLOT SCALE1 :IN:20 FT HORZ. / 1 IN:20 FT VERT.



APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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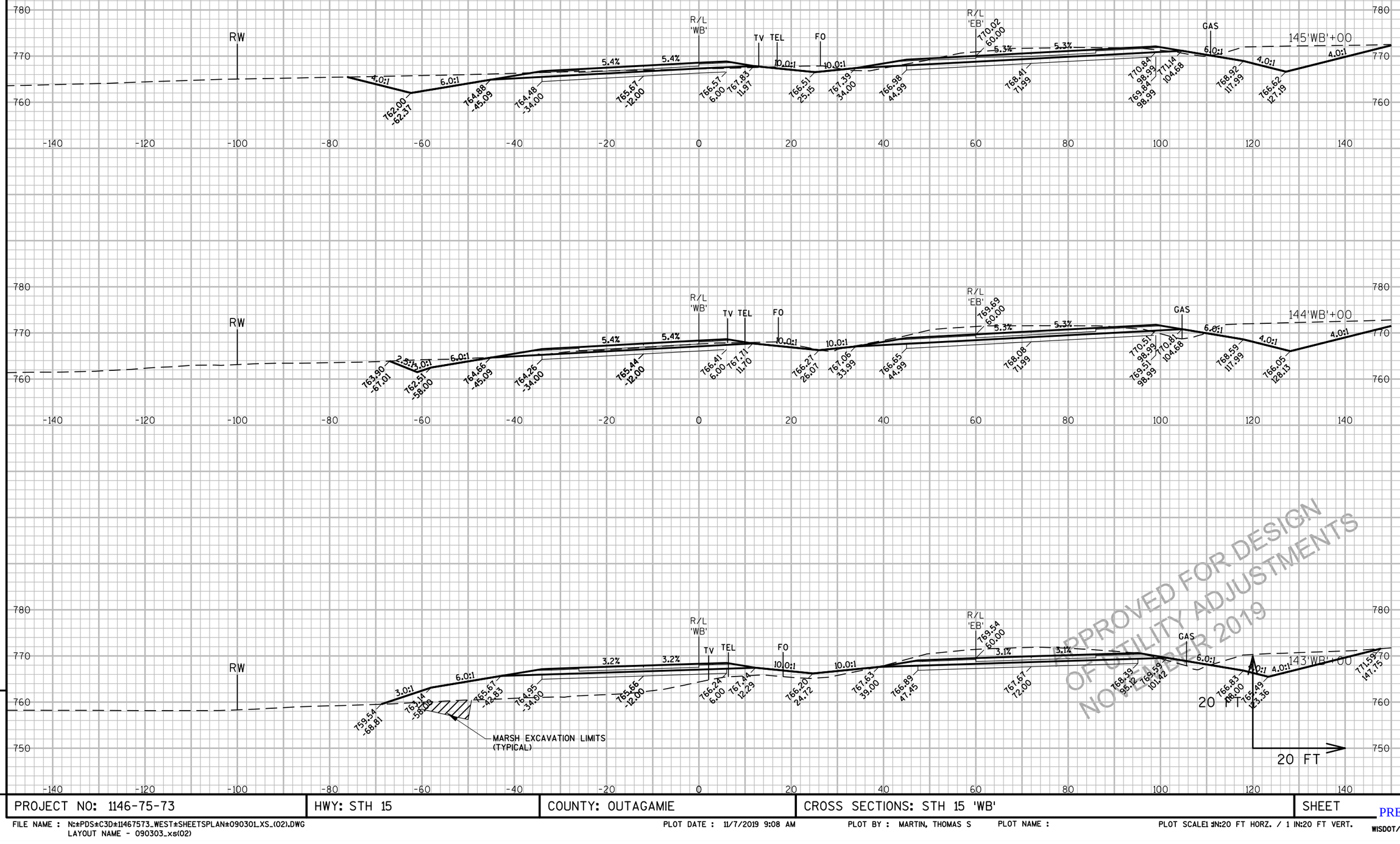
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

FILE NAME : N:±PDS±C3D±11467573_WEST±SHEETSPLAN±090301_XS_(02).DWG
LAYOUT NAME - 090302_xs(02)
PLOT DATE : 11/7/2019 9:08 AM
PLOT BY : MARTIN, THOMAS S
PLOT NAME :
PLOT SCALE: 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.
PRE_350
WISDOT/CADDS SHEET 49



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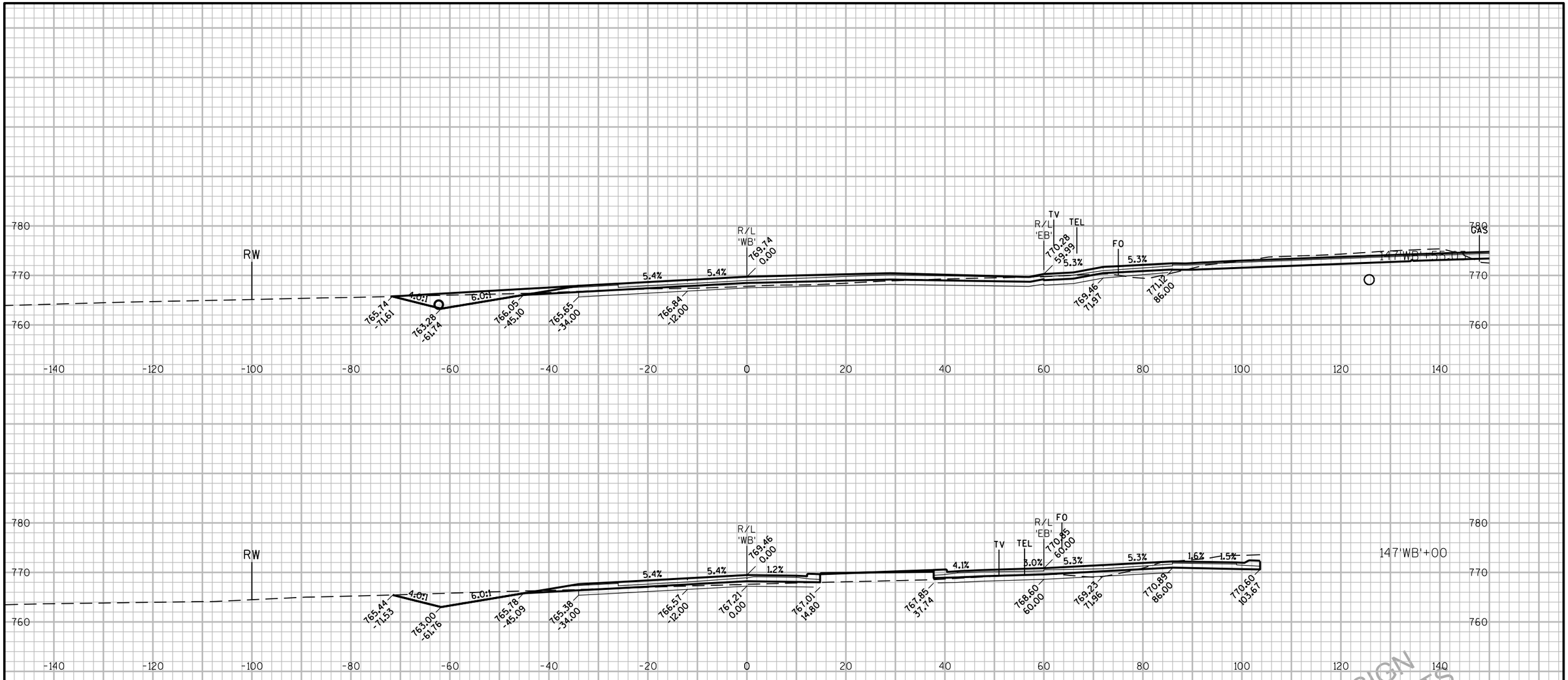
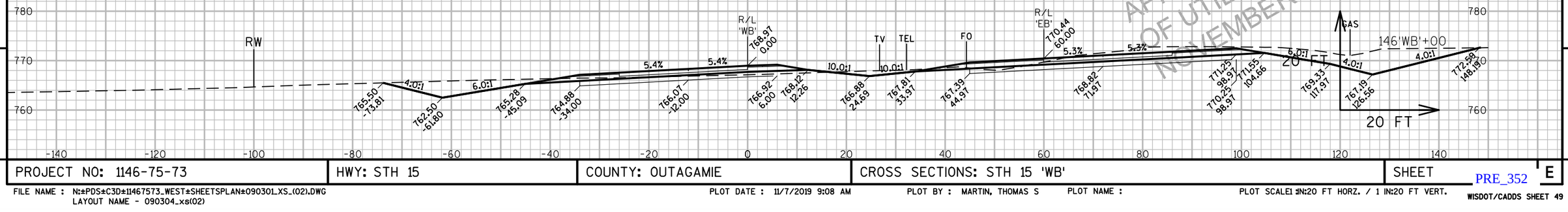
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E





APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

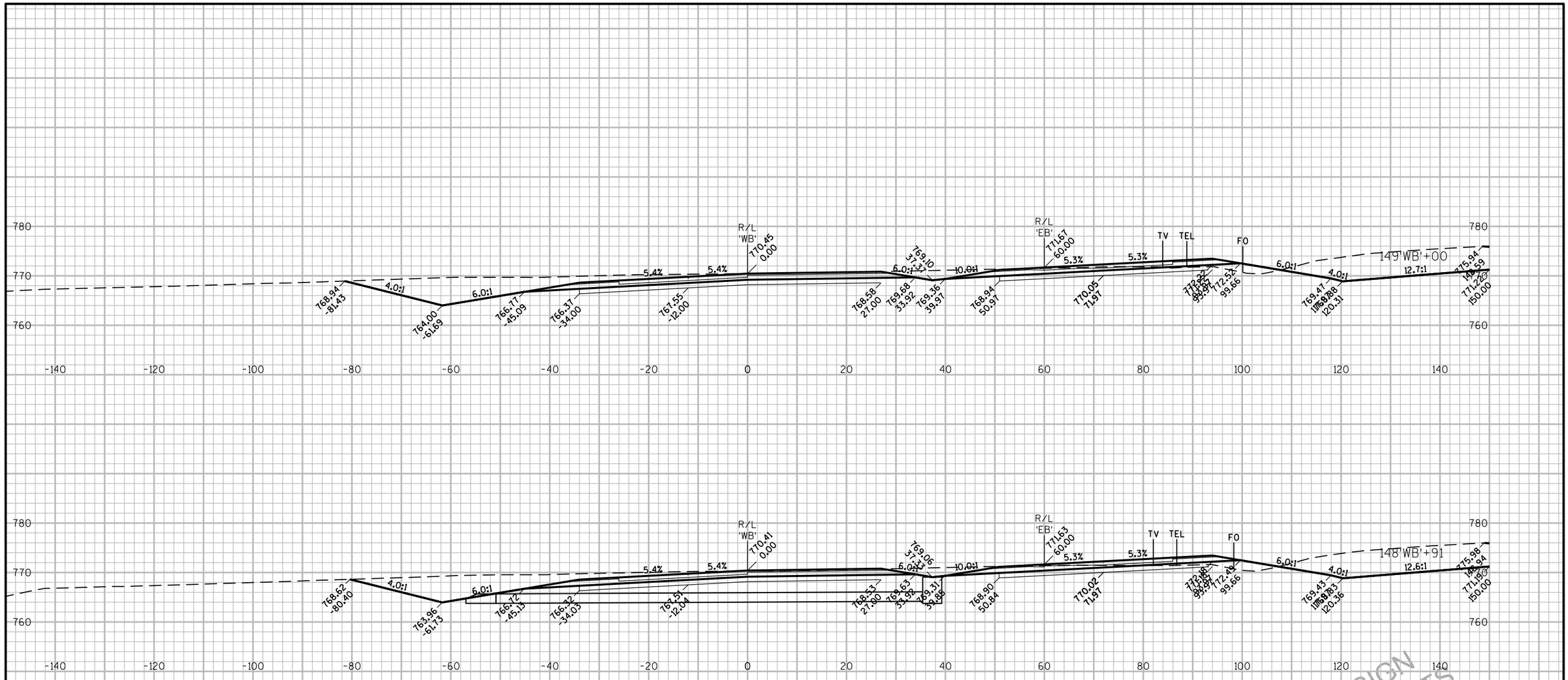
PRE_352

FILE NAME : N:±PDS±C3D±11467573_WEST±SHEETSPLAN±090301_XS_(02).DWG
LAYOUT NAME - 090304_xs(02)

PLOT DATE : 11/7/2019 9:08 AM PLOT BY : MARTIN, THOMAS S PLOT NAME :

PLOT SCALE1 :IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

PRE_353

FILE NAME : N:±PDS±C3D±11467573_WEST±SHEETSPLAN±090301_XS_(02).DWG
LAYOUT NAME - 090305_xs(02)

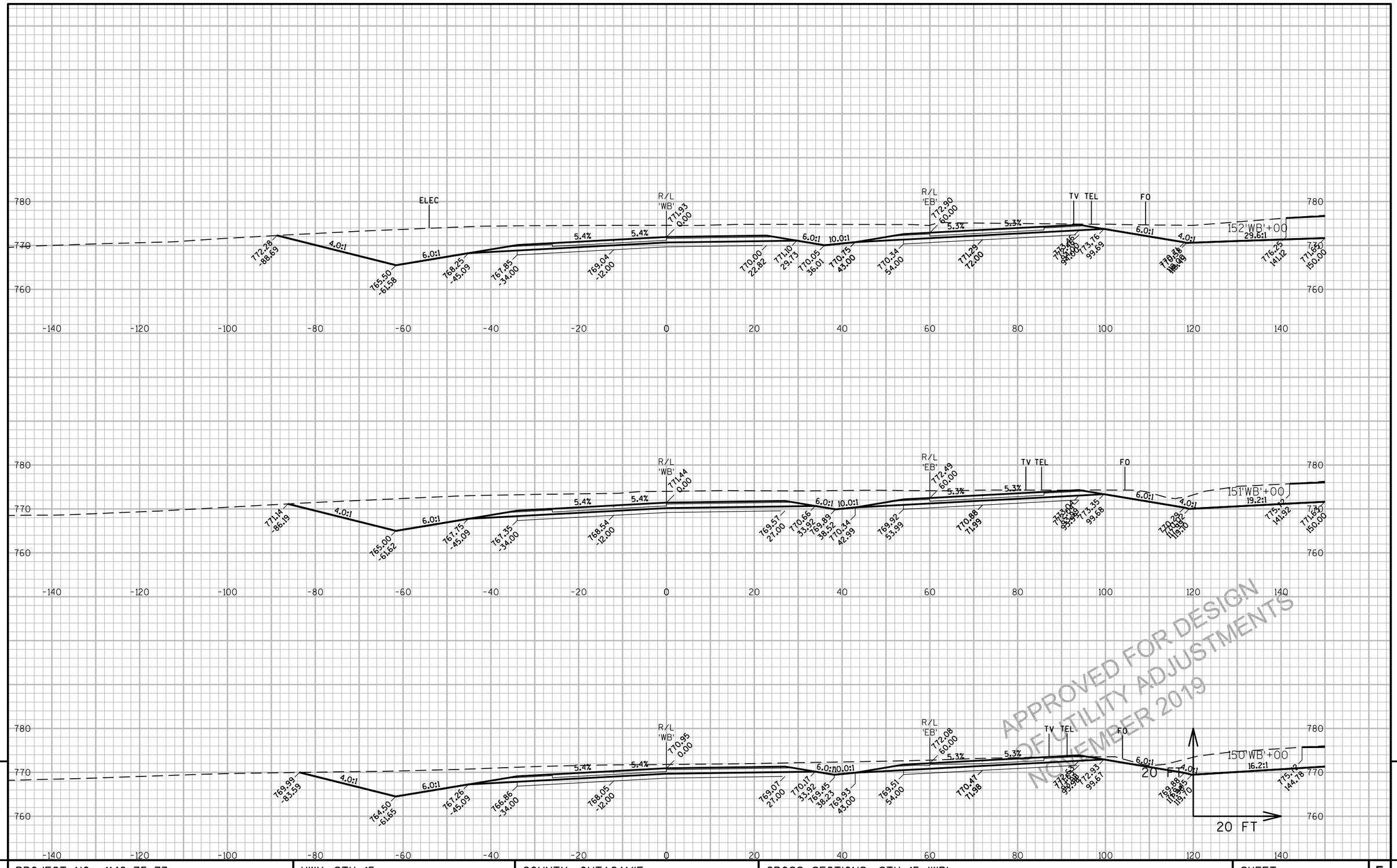
PLOT DATE : 11/7/2019 9:09 AM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE1 :IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

PRE_354

FILE NAME : N:±PDS±C3D±11467573_WEST±SHEETSPLAN±090301_XS_(02).DWG
LAYOUT NAME - 090306_xs(02)

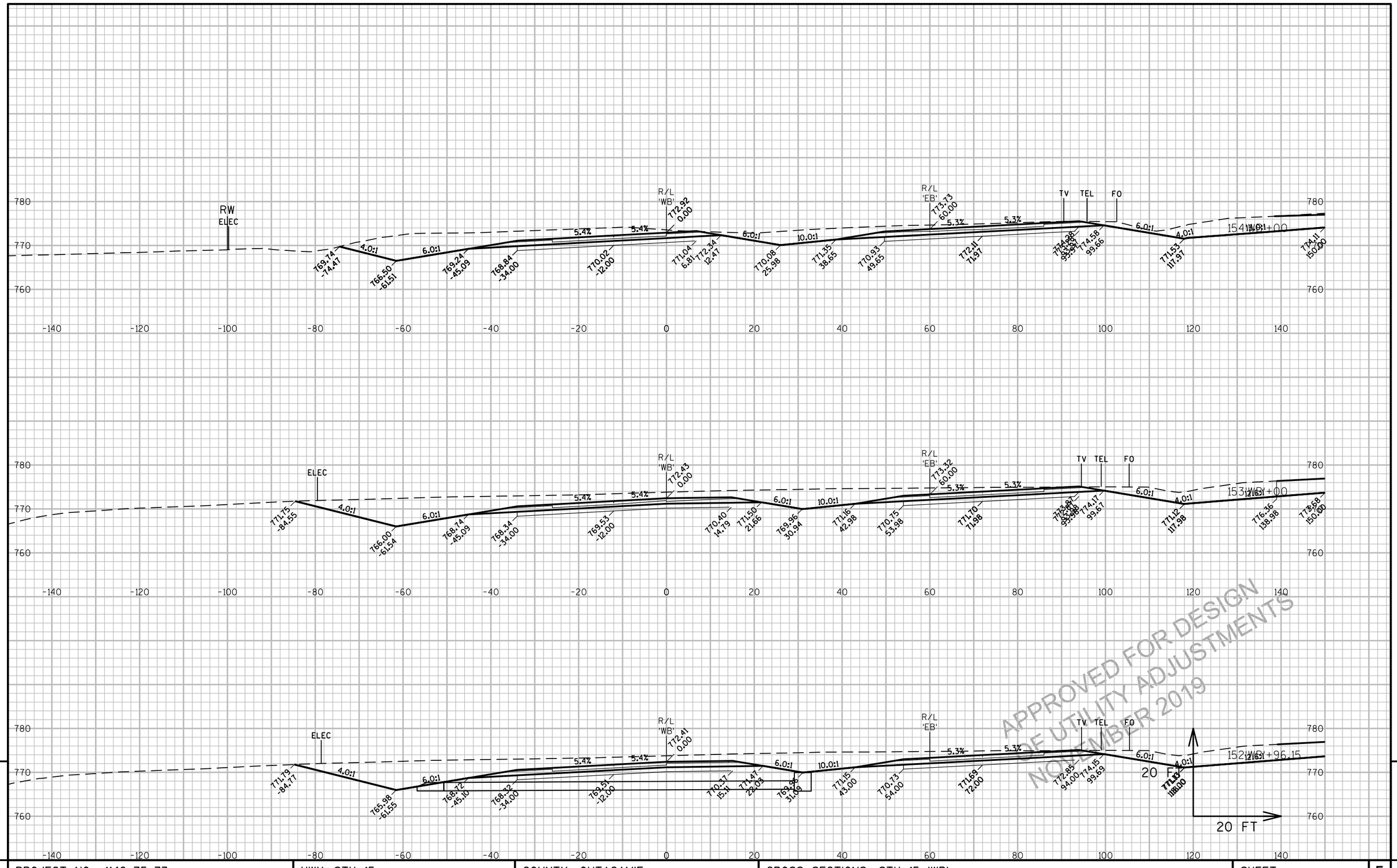
PLOT DATE : 11/7/2019 9:09 AM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE1 :IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



APPROVED FOR DESIGN
NOVEMBER 2019
UTILITY ADJUSTMENTS

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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

PRE_355

FILE NAME : N:±PDS±C3D±11467573_WEST±SHEETSPLAN±090301_XS_(02).DWG
LAYOUT NAME - 090307_xs(02)

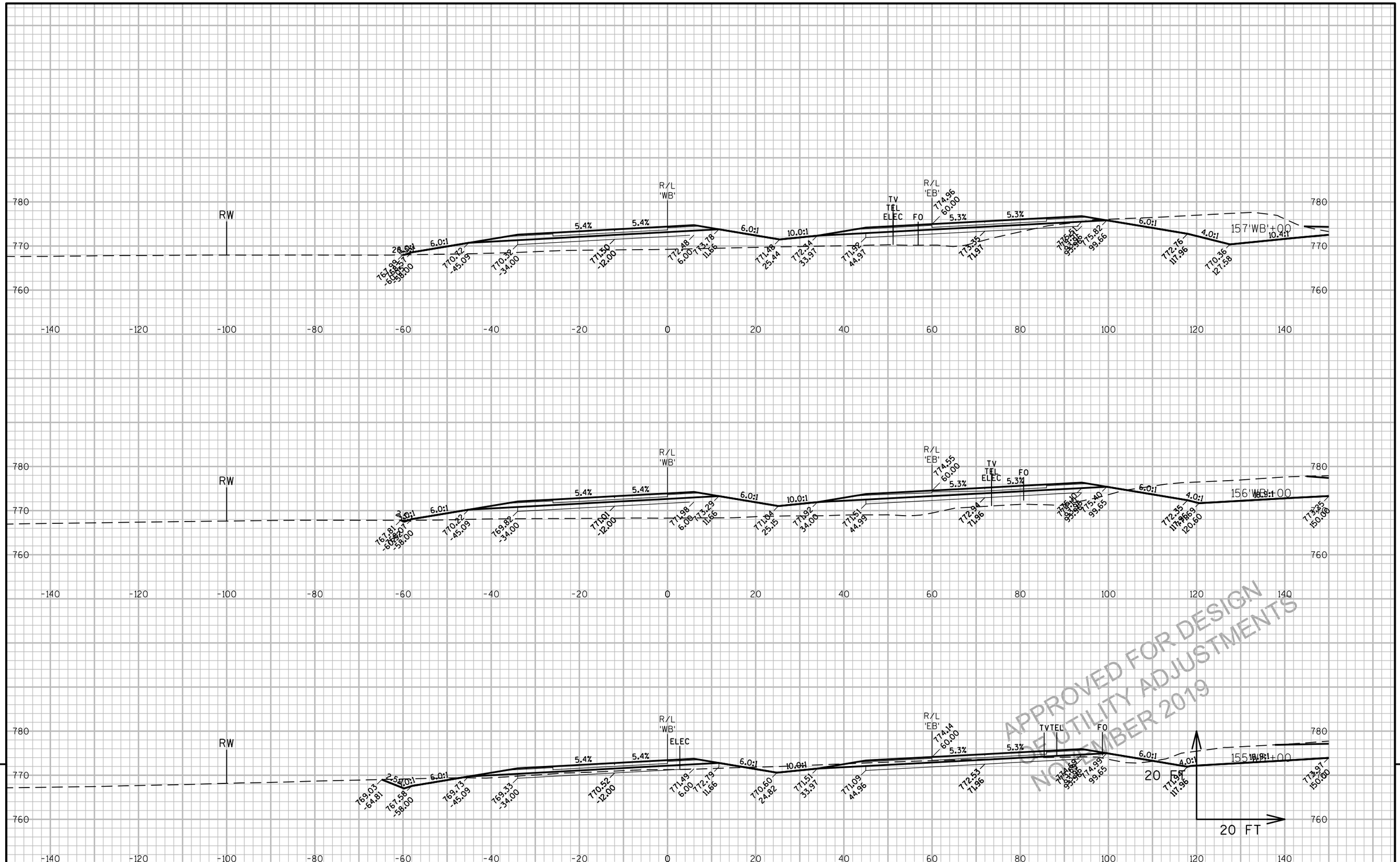
PLOT DATE : 11/7/2019 9:09 AM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE1 :IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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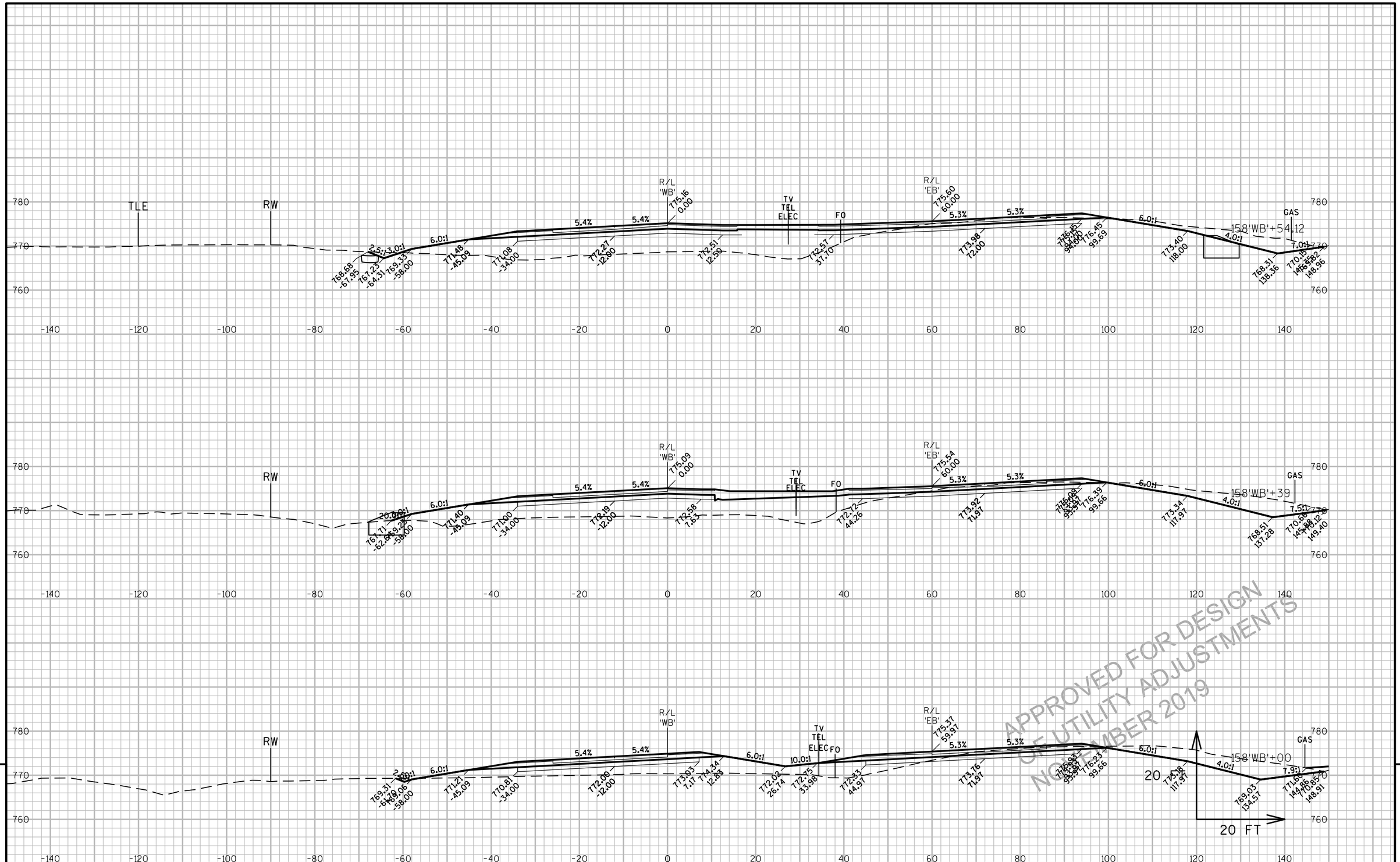
9

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

PRE_356

FILE NAME : N:±PDS±C3D±11467573_WEST±SHEETSPLAN±090301_XS_(02).DWG
LAYOUT NAME - 090308_xs(02)

PLOT DATE : 11/7/2019 9:09 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE1 :IN:20 FT HORZ. / 1 IN:20 FT VERT.



APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

9

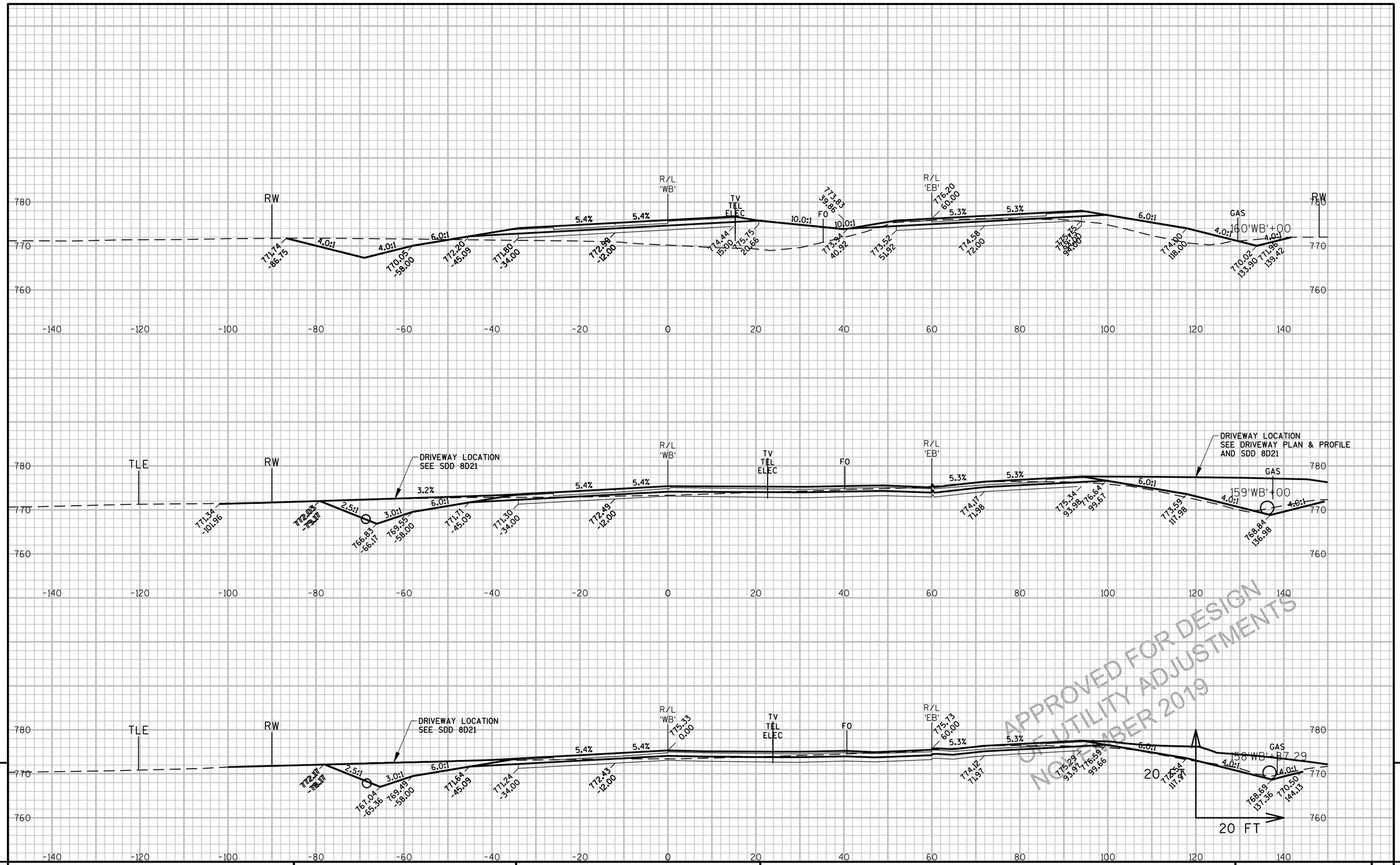
9

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

PRE_357

FILE NAME : N:±PDS±C3D±11467573_WEST±SHEETSPLAN±090301_XS_(02).DWG
LAYOUT NAME - 090309_xs(02)

PLOT DATE : 11/7/2019 9:09 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE1 :IN:20 FT HORZ. / 1 IN:20 FT VERT.



APPROVED FOR DESIGN
UTILITY ADJUSTMENTS
NOVEMBER 2019

9

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

PRE_358

FILE NAME : N:±PDS±C3D±11467573_WEST±SHEETSPLAN±090301_XS_(02).DWG
LAYOUT NAME - 090310_xs(02)

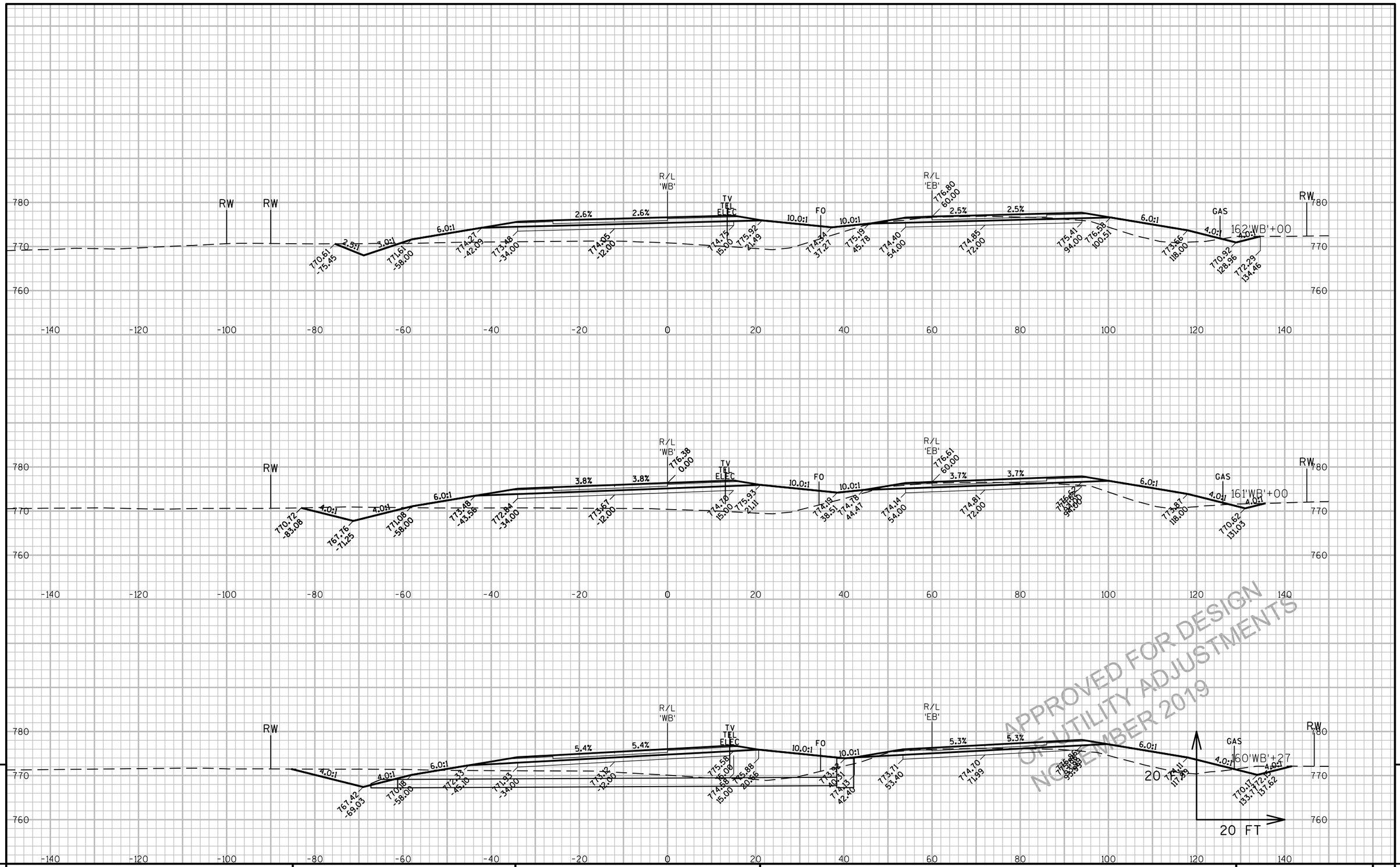
PLOT DATE : 11/7/2019 9:09 AM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE1 :IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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OF UTILITY ADJUSTMENTS
NOVEMBER 2019

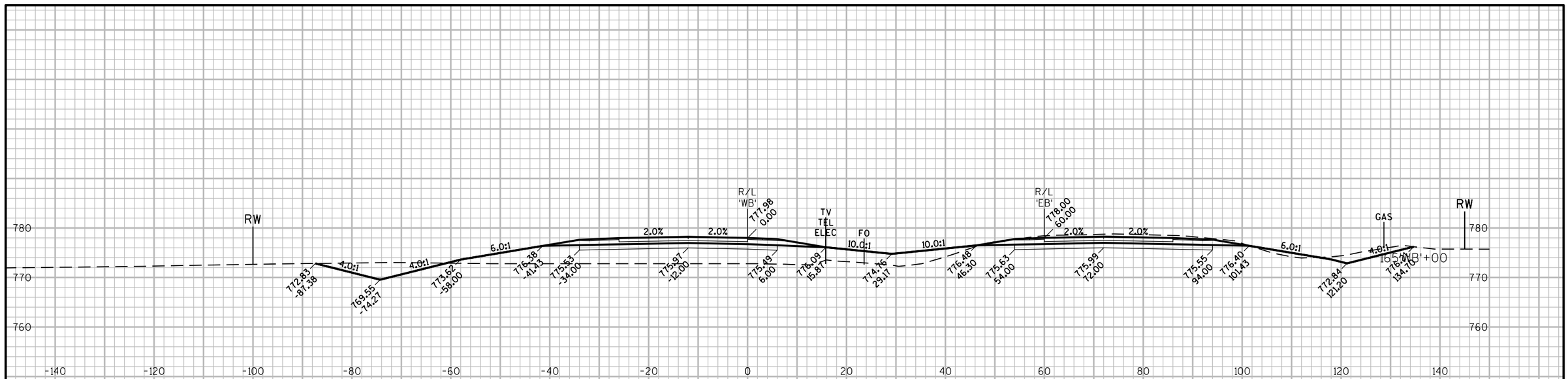
9

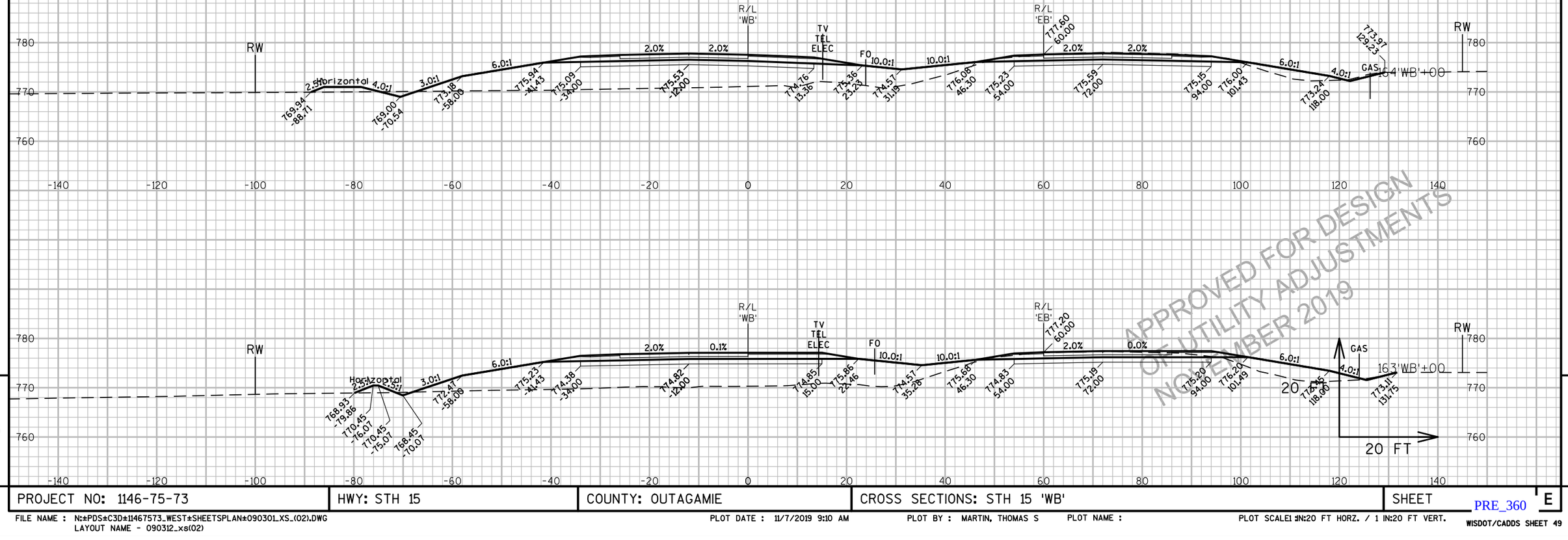
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

FILE NAME : N:±PDS±C3D±11467573_WEST±SHEETSPLAN±090301_XS_(02).DWG
LAYOUT NAME - 090311_xs(02)

PLOT DATE : 11/7/2019 9:10 AM PLOT BY : MARTIN, THOMAS S PLOT NAME :

PLOT SCALE1 :IN:20 FT HORZ. / 1 IN:20 FT VERT.





APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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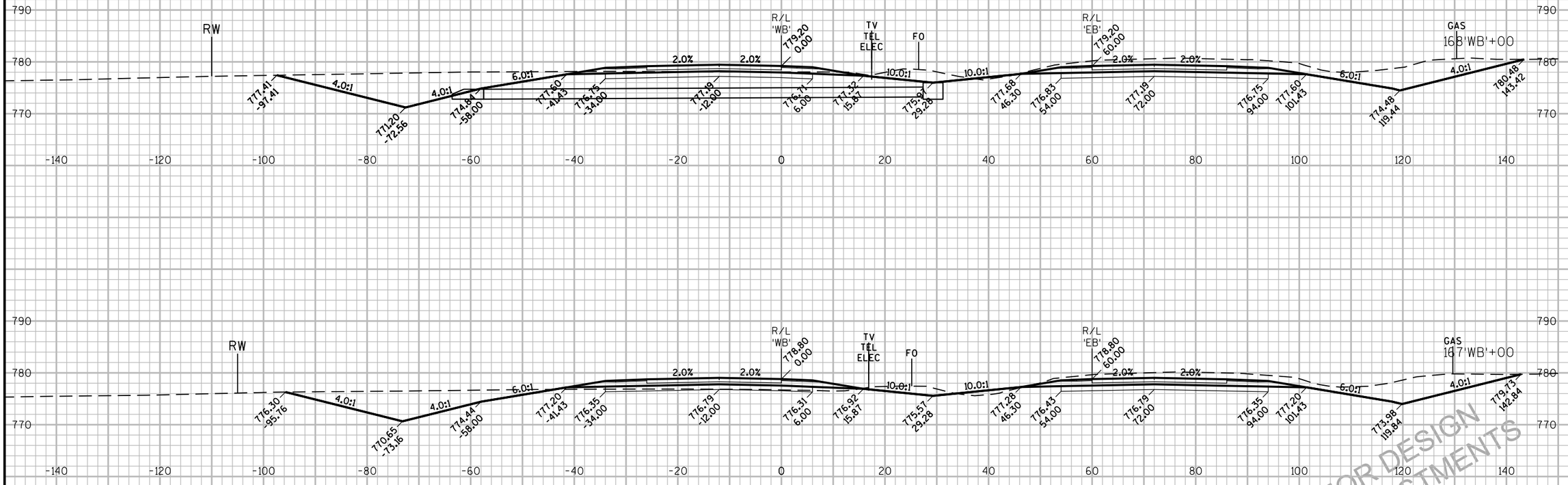
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

PRE_360

FILE NAME : N:±PDS±C3D±11467573_WEST±SHEETSPLAN±090301_XS_(02).DWG
LAYOUT NAME - 090312_xs(02)

PLOT DATE : 11/7/2019 9:10 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE1 :IN:20 FT HORZ. / 1 IN:20 FT VERT.



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OF UTILITY ADJUSTMENTS
NOVEMBER 2019

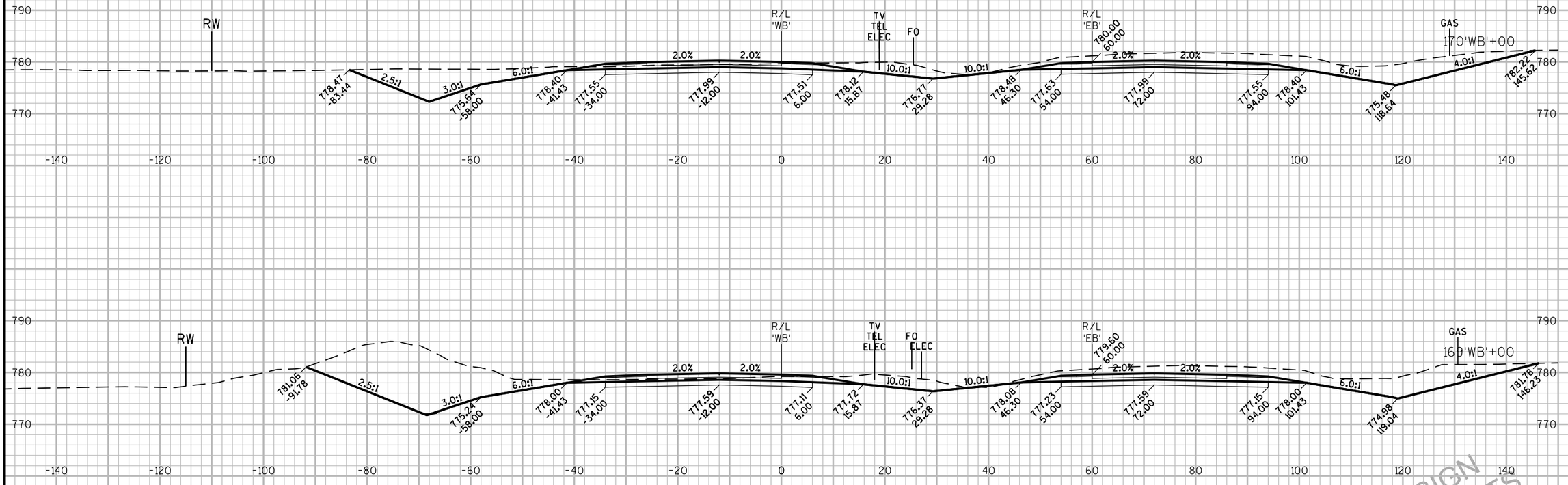
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

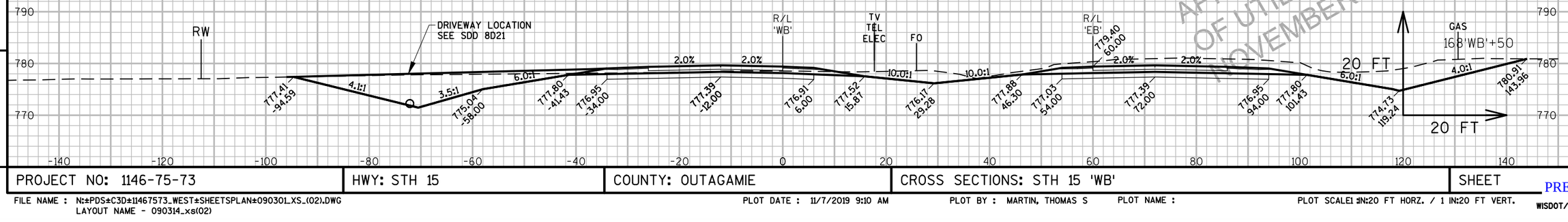
PRE_361

FILE NAME : N:±PDS±C3D±11467573_WEST±SHEETSPLAN±090301_XS_(02).DWG
LAYOUT NAME - 090313_xs(02)

PLOT DATE : 11/7/2019 9:10 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE1 :IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49





APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

9

9

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

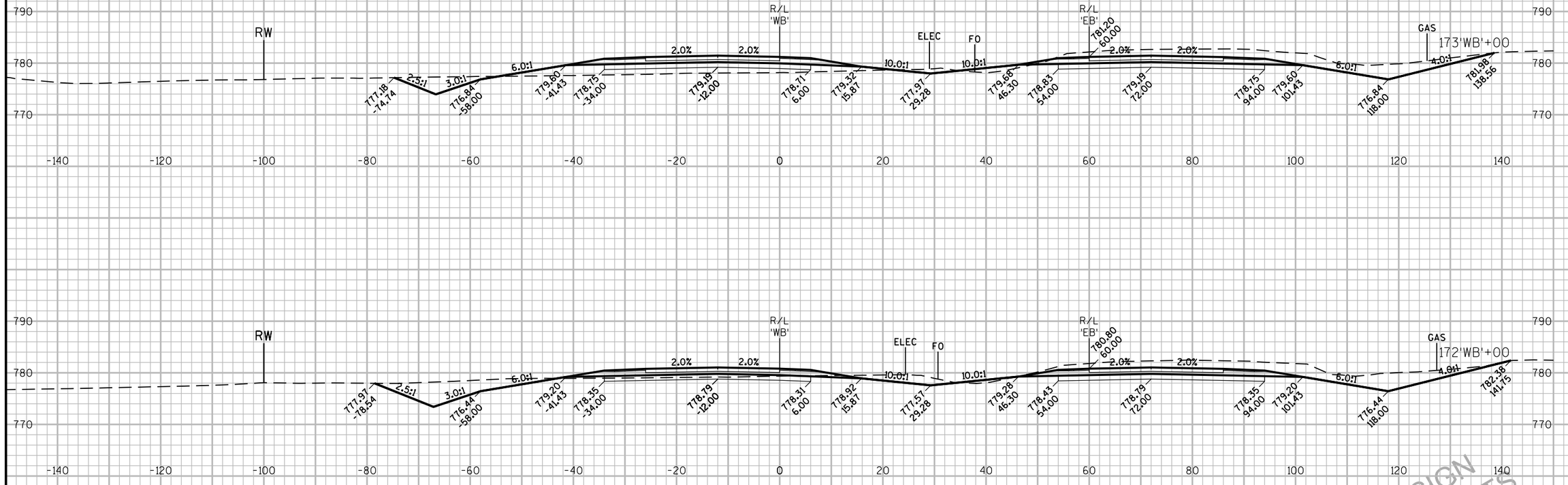
PRE_362

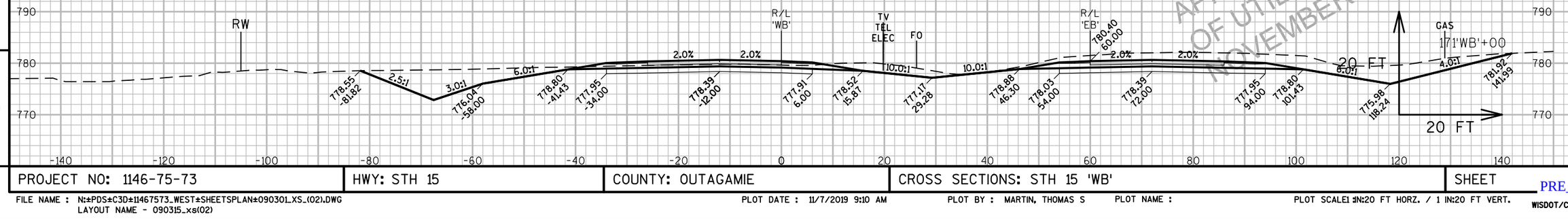
FILE NAME : N:±PDS±C3D±11467573_WEST±SHEETSPLAN±090301_XS_(02).DWG
LAYOUT NAME - 090314_xs(02)

PLOT DATE : 11/7/2019 9:10 AM PLOT BY : MARTIN, THOMAS S PLOT NAME :

PLOT SCALE1 :IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49





APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

9

9

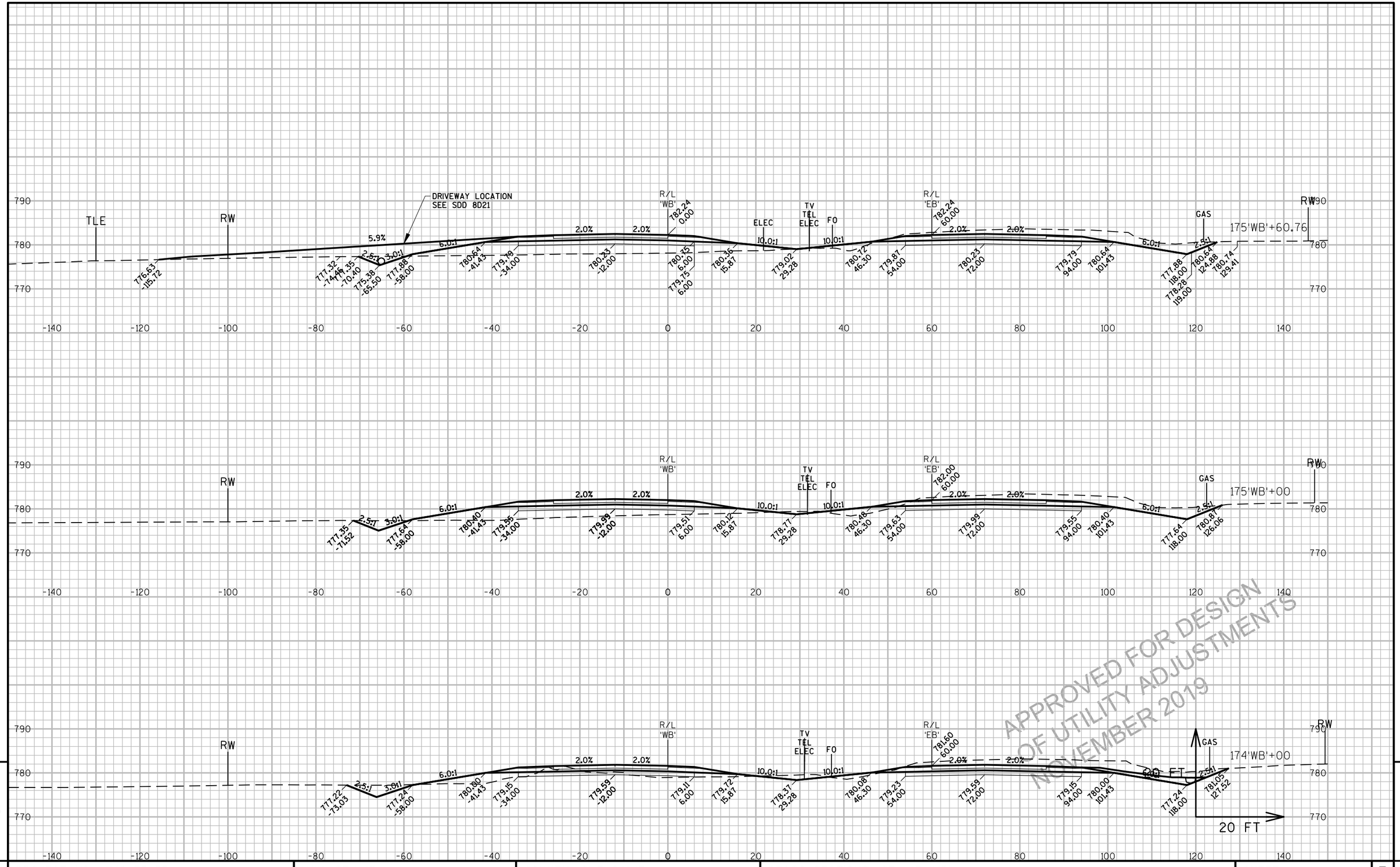
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

PRE_363

FILE NAME : N:±PDS±C3D±11467573_WEST±SHEETSPLAN±090301_XS_(02).DWG
LAYOUT NAME - 090315_xs(02)

PLOT DATE : 11/7/2019 9:10 AM PLOT BY : MARTIN, THOMAS S PLOT NAME :

PLOT SCALE1 :IN:20 FT HORZ. / 1 IN:20 FT VERT.



APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

9

9

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

PRE_364

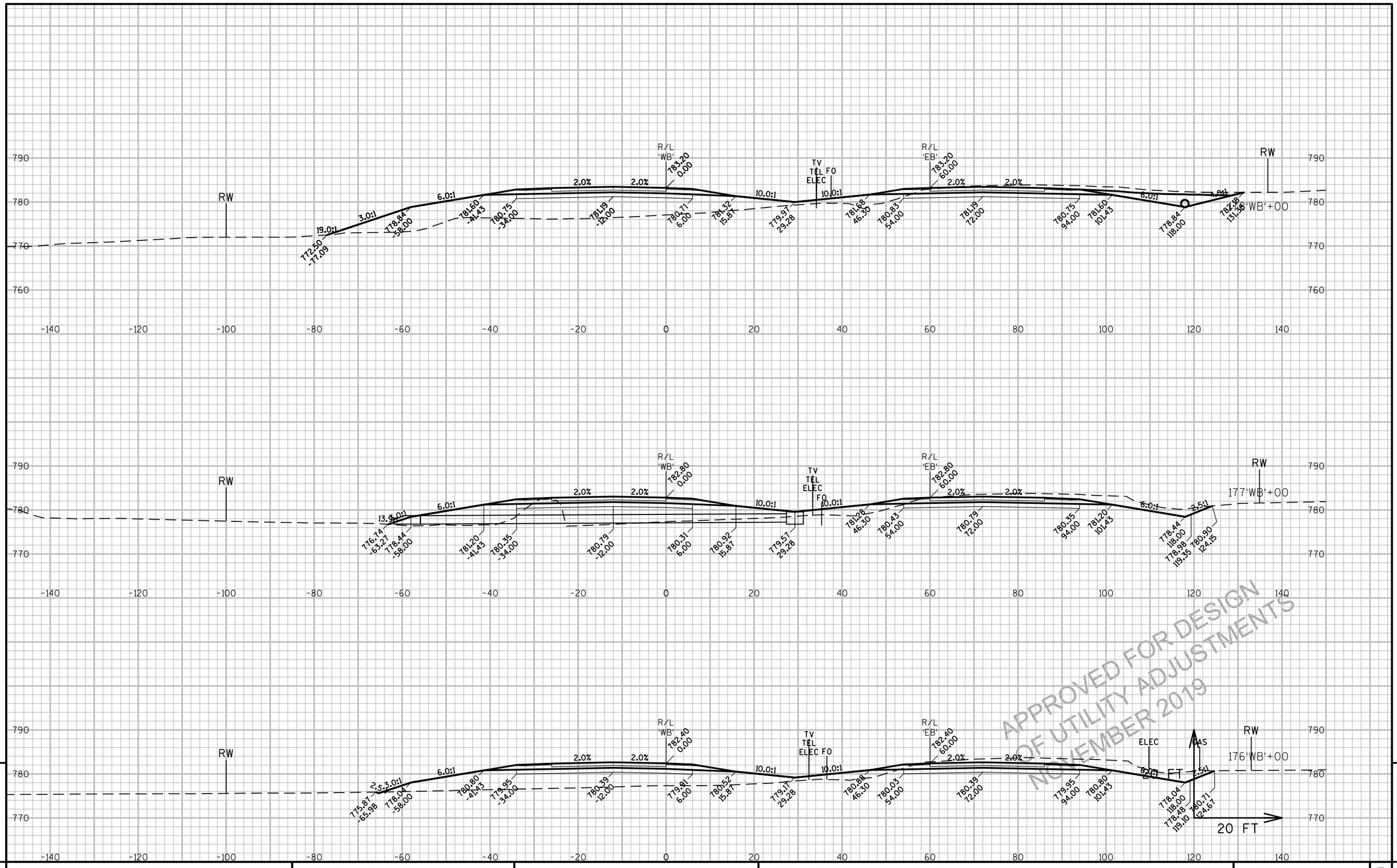
FILE NAME : N:±PDS±C3D±11467573_WEST±SHEETSPLAN±090301_XS_(02).DWG
LAYOUT NAME - 090316_xs(02)

PLOT DATE : 11/7/2019 9:11 AM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE1 :IN:20 FT HORZ. / 1 IN:20 FT VERT.



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OF UTILITY ADJUSTMENTS
NOVEMBER 2019

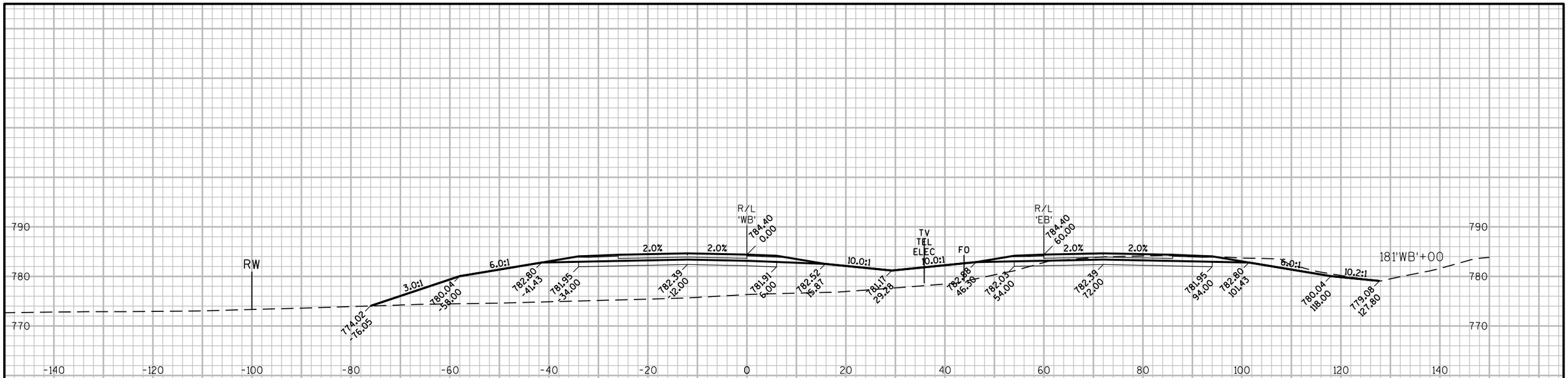
9

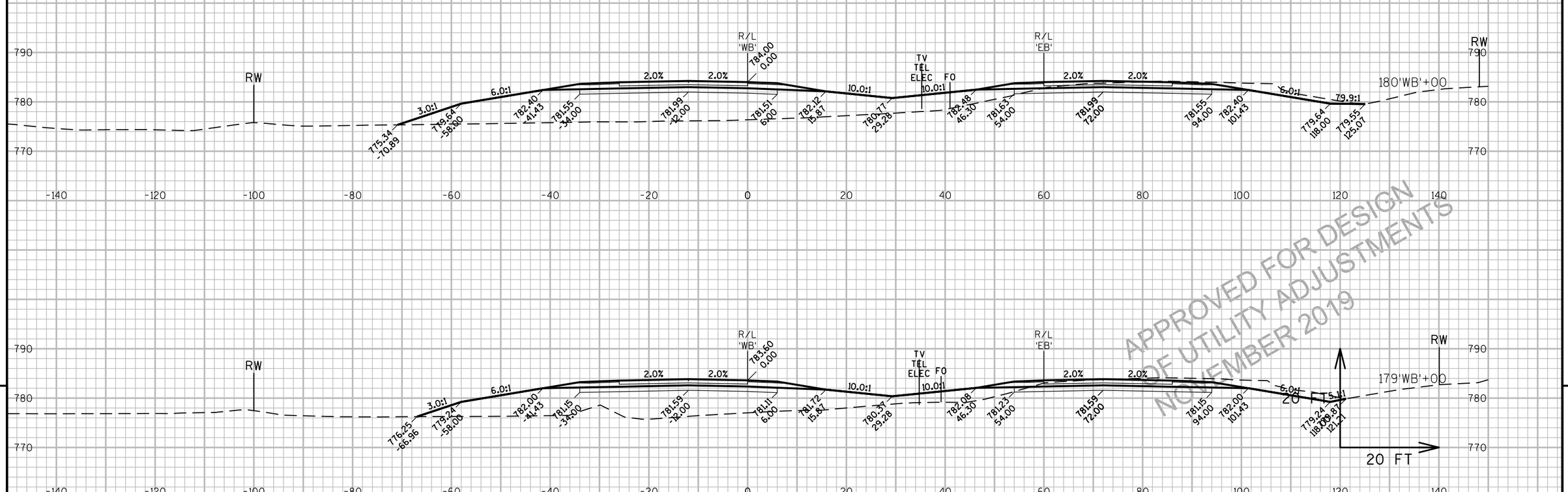
9

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

FILE NAME : N:±PDS±C3D±11467573_WEST±SHEETSPLAN±090301_XS_(02).DWG
LAYOUT NAME - 090317_xs(02)
PLOT DATE : 11/7/2019 9:11 AM
PLOT BY : MARTIN, THOMAS S
PLOT NAME :
PLOT SCALE1 :IN:20 FT HORZ. / 1 IN:20 FT VERT.
WISDOT/CADDS SHEET 49

PRE_365



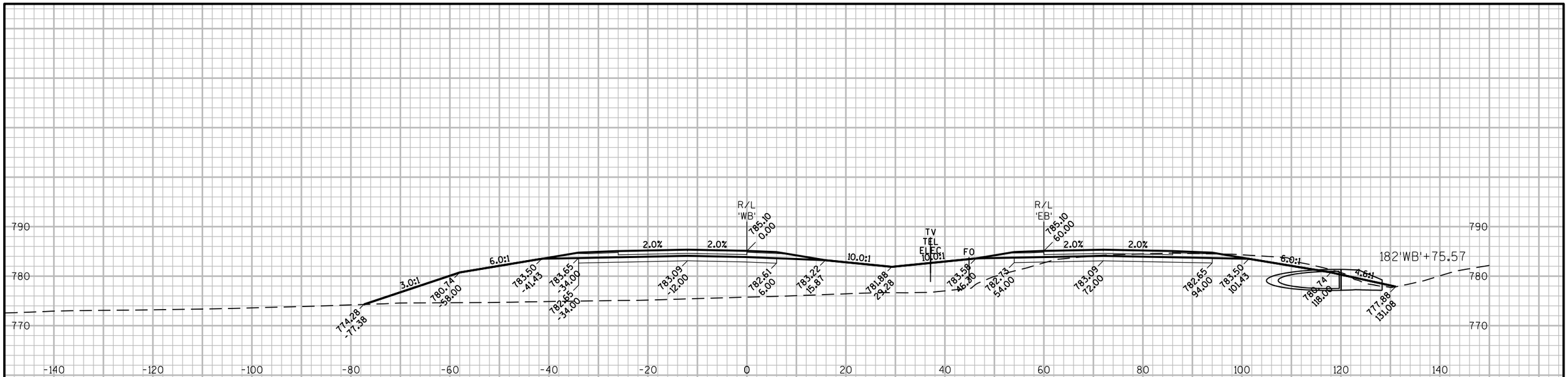


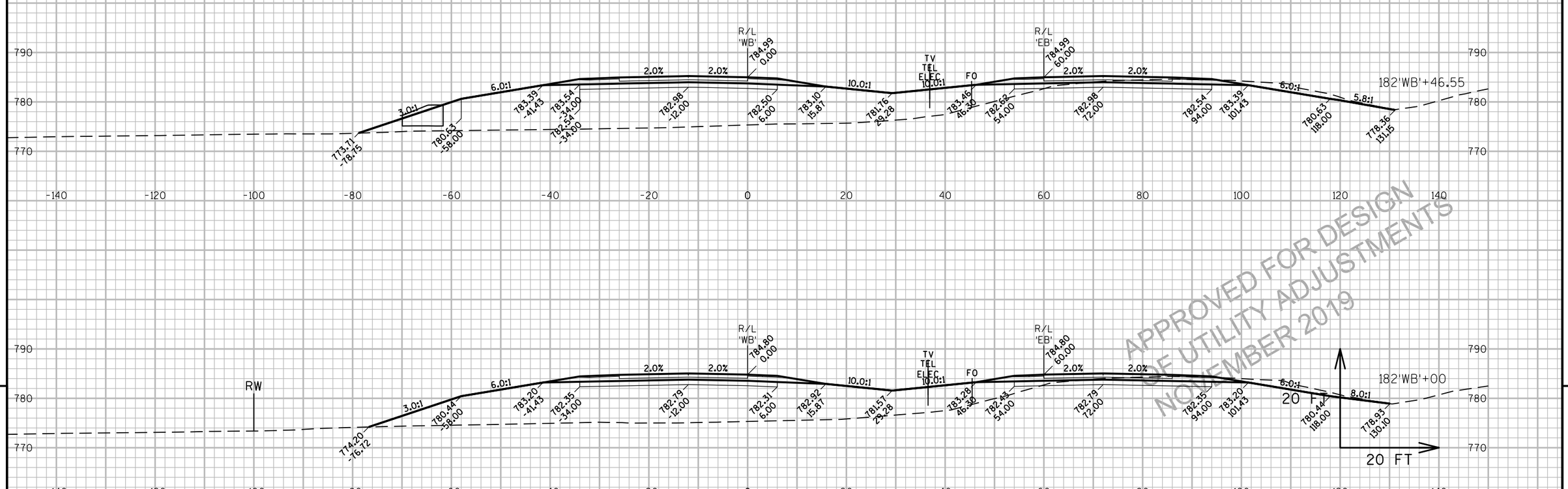
APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

9

9

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E





APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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9

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

FILE NAME : N:±PDS±C3D±11467573_WEST±SHEETSPLAN±090301_XS_(02).DWG
LAYOUT NAME - 090319_xs(02)

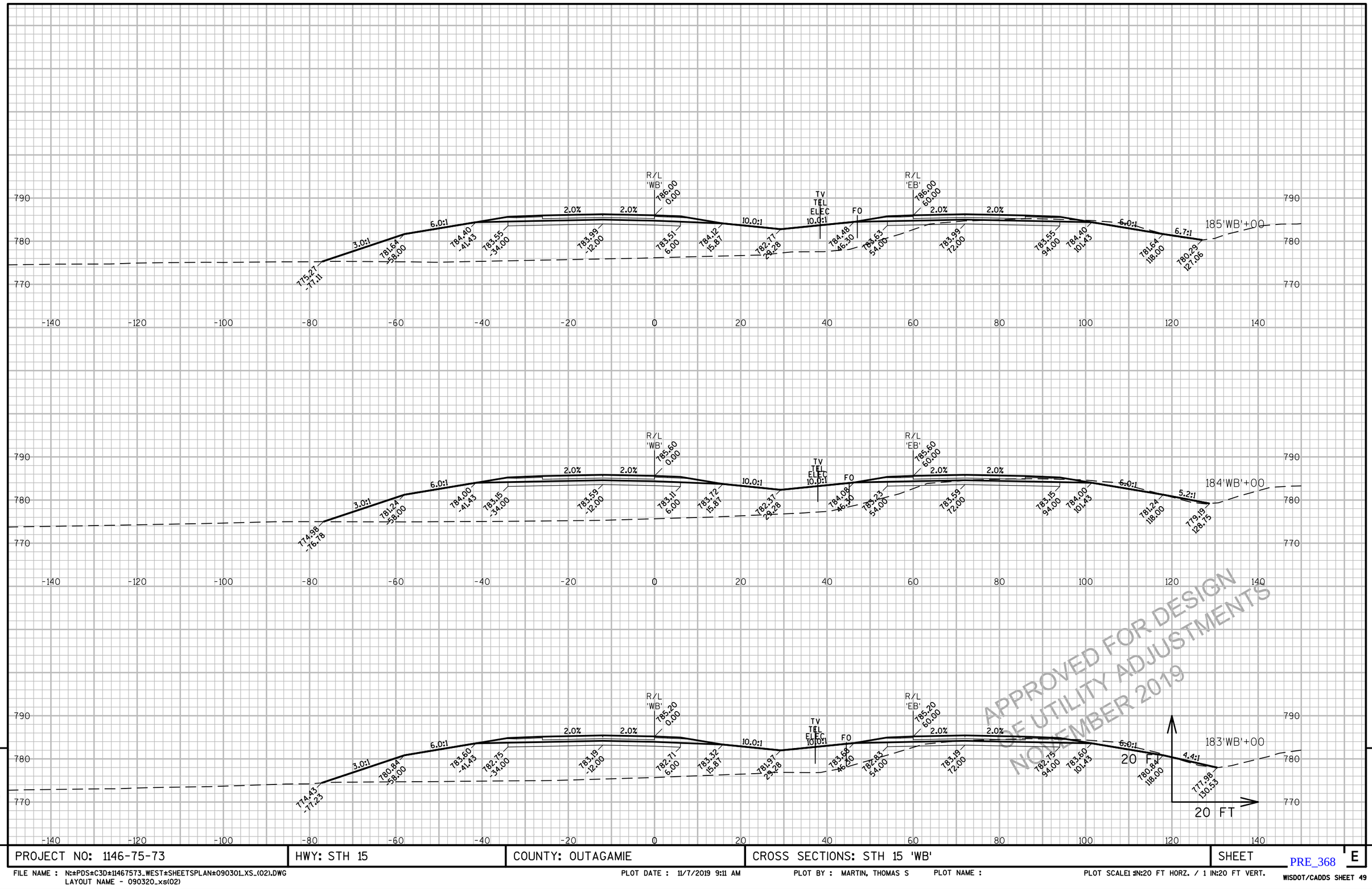
PLOT DATE : 11/7/2019 9:11 AM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE1 :IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

PRE_368

FILE NAME : N:±PDS±C3D±11467573_WEST±SHEETSPLAN±090301_XS_(02).DWG
LAYOUT NAME - 090320_xs(02)

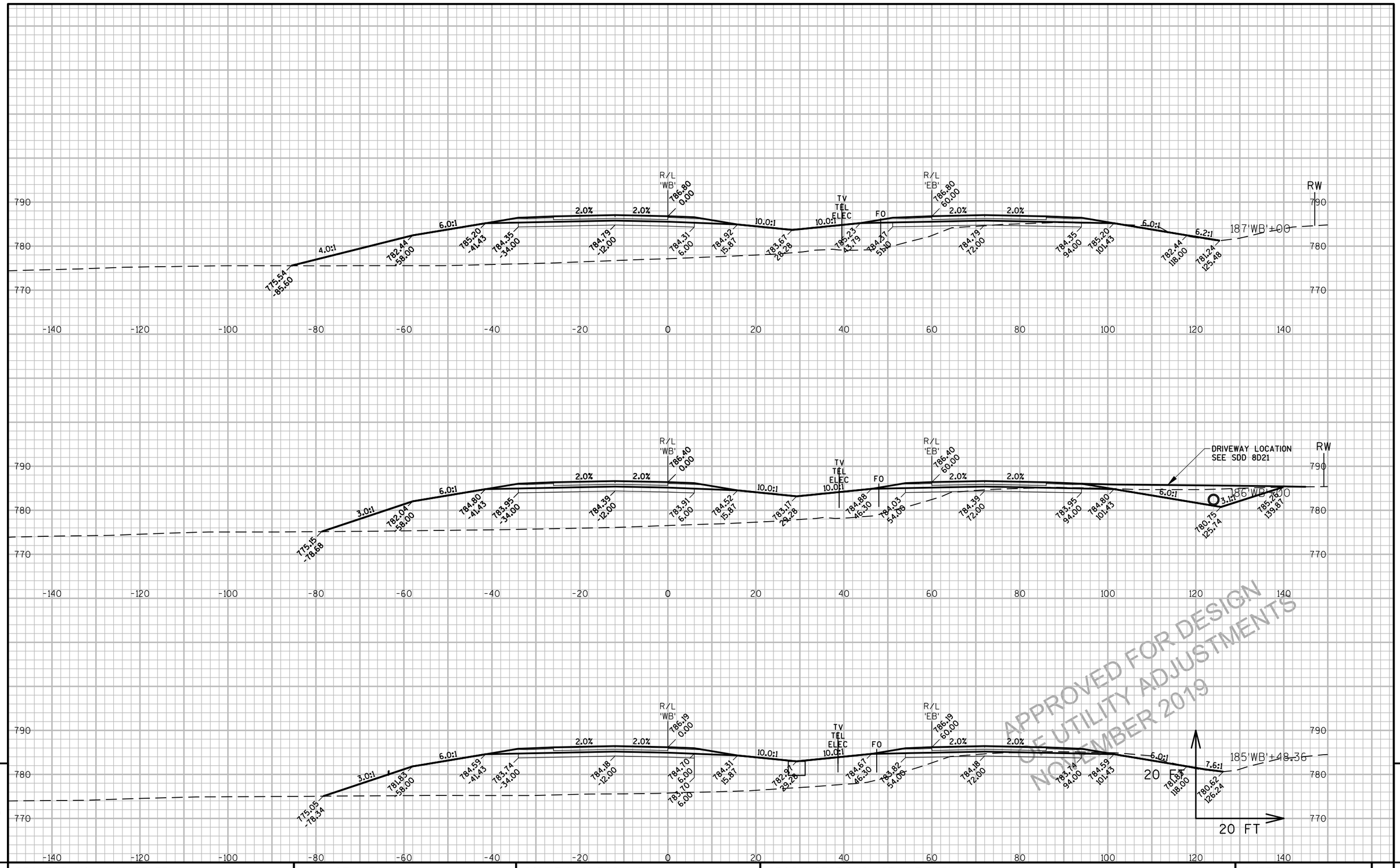
PLOT DATE : 11/7/2019 9:11 AM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE1 :IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

PRE_369

FILE NAME : N:±PDS±C3D±11467573_WEST±SHEETSPLAN±090301_XS_(02).DWG
LAYOUT NAME - 090321_xs(02)

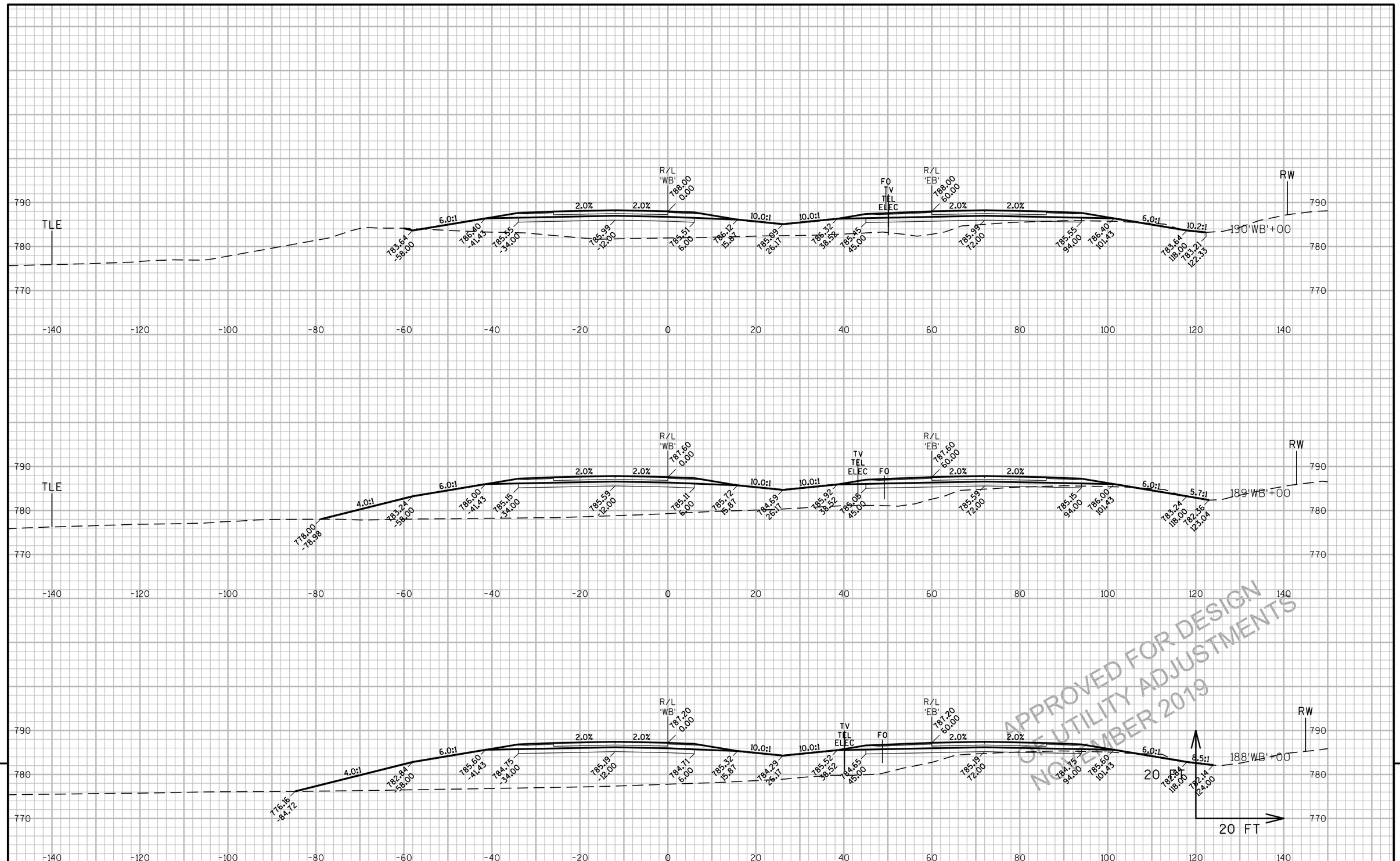
PLOT DATE : 11/7/2019 9:11 AM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE1 :IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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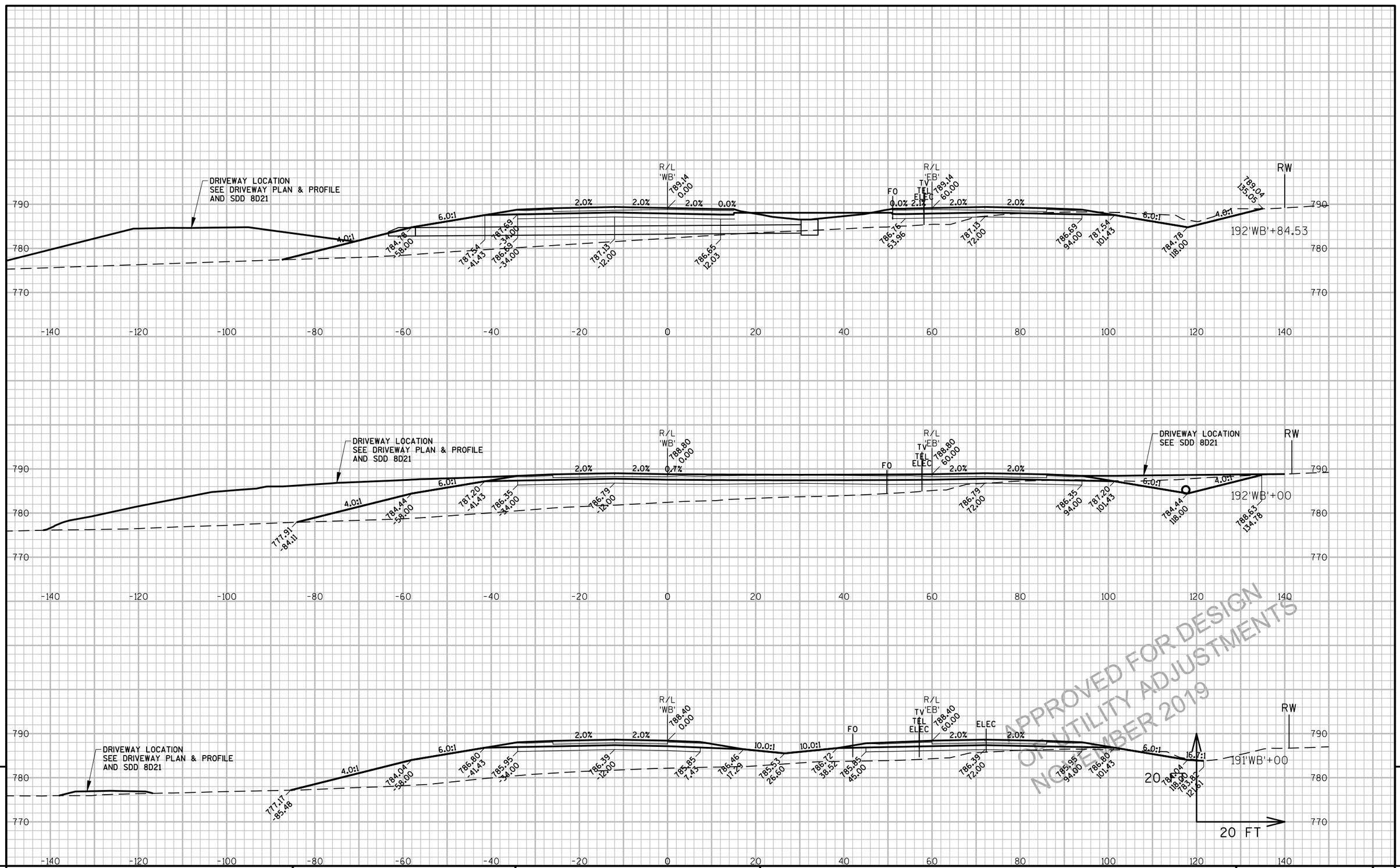
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

PRE_370

FILE NAME : N:±PDS±C3D±11467573_WEST±SHEETSPLAN±090301_XS_(02).DWG
LAYOUT NAME - 090322_xs(02)

PLOT DATE : 11/7/2019 9:12 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE1 :IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

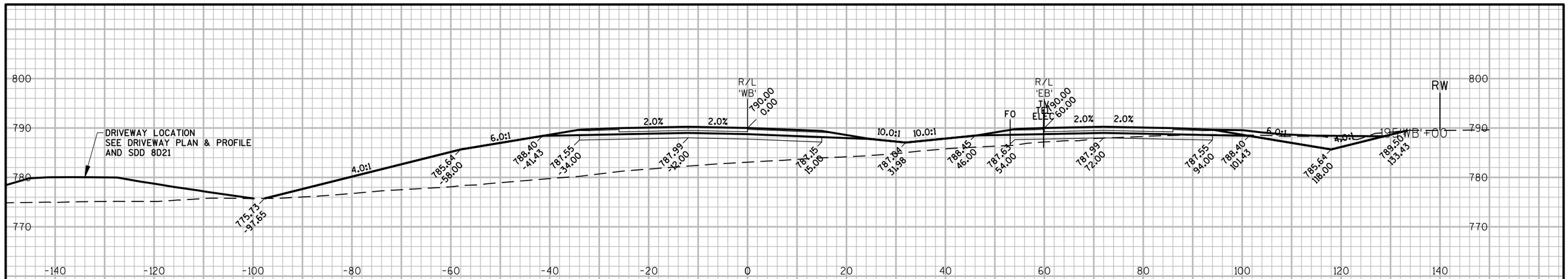


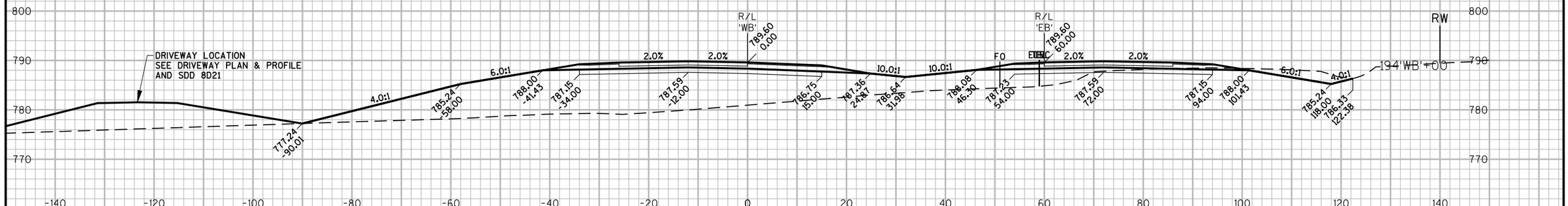
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

FILE NAME : N:±PDS±C3D±11467573_WEST±SHEETSPLAN±090301_XS_(02).DWG
LAYOUT NAME - 090323_xs(02)

PLOT DATE : 11/7/2019 9:12 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE1 :N:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_371





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OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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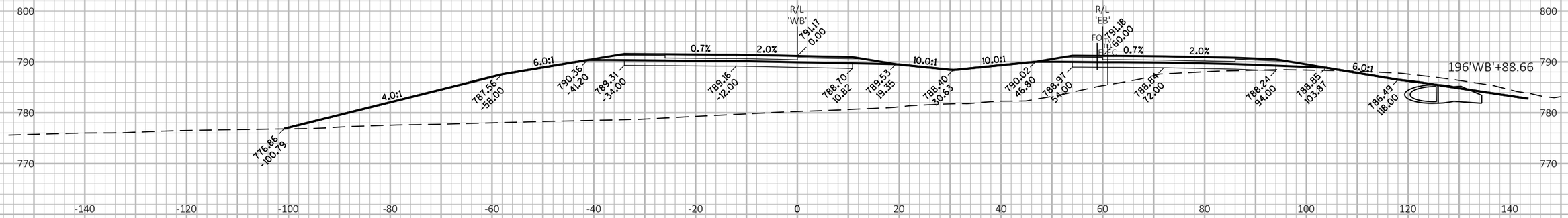
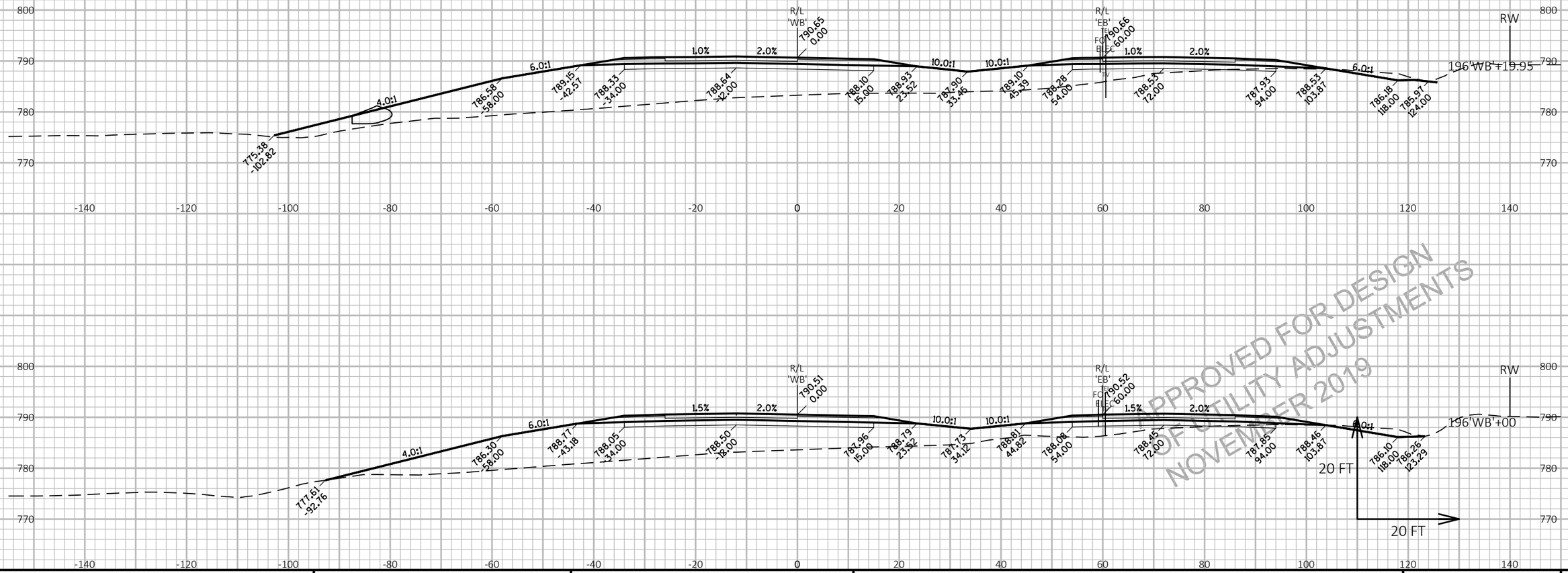
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E





APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

PRE_373

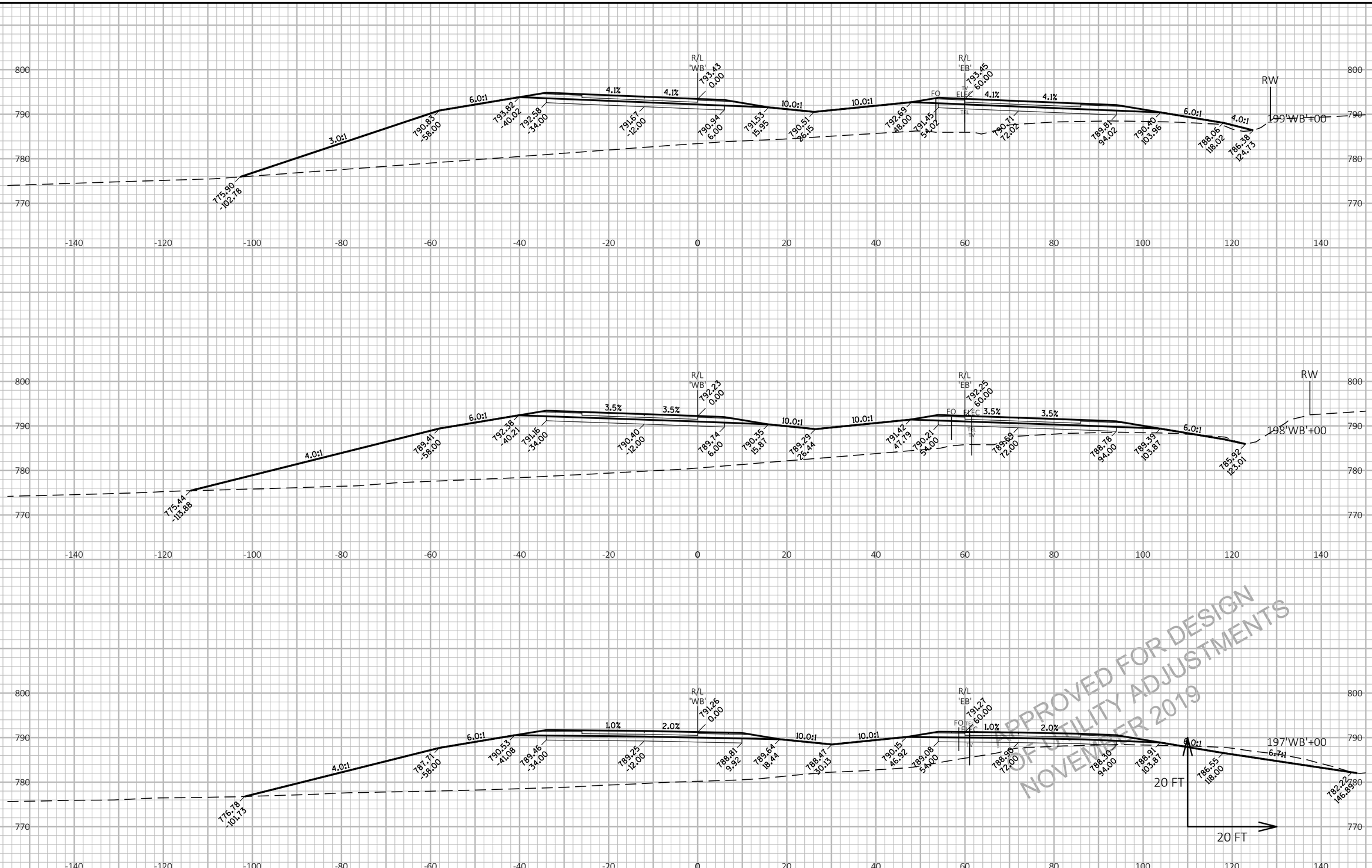
FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(03).DWG
LAYOUT NAME - 090301_xs(03)

PLOT DATE : 11/11/2019 1:40 PM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



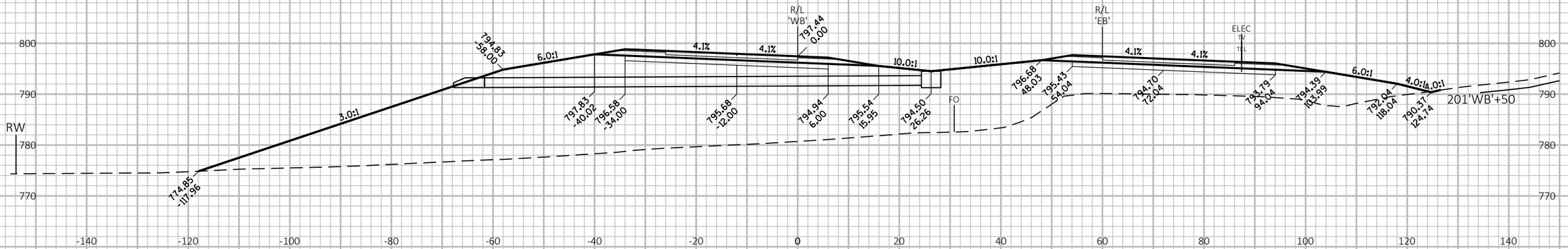
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

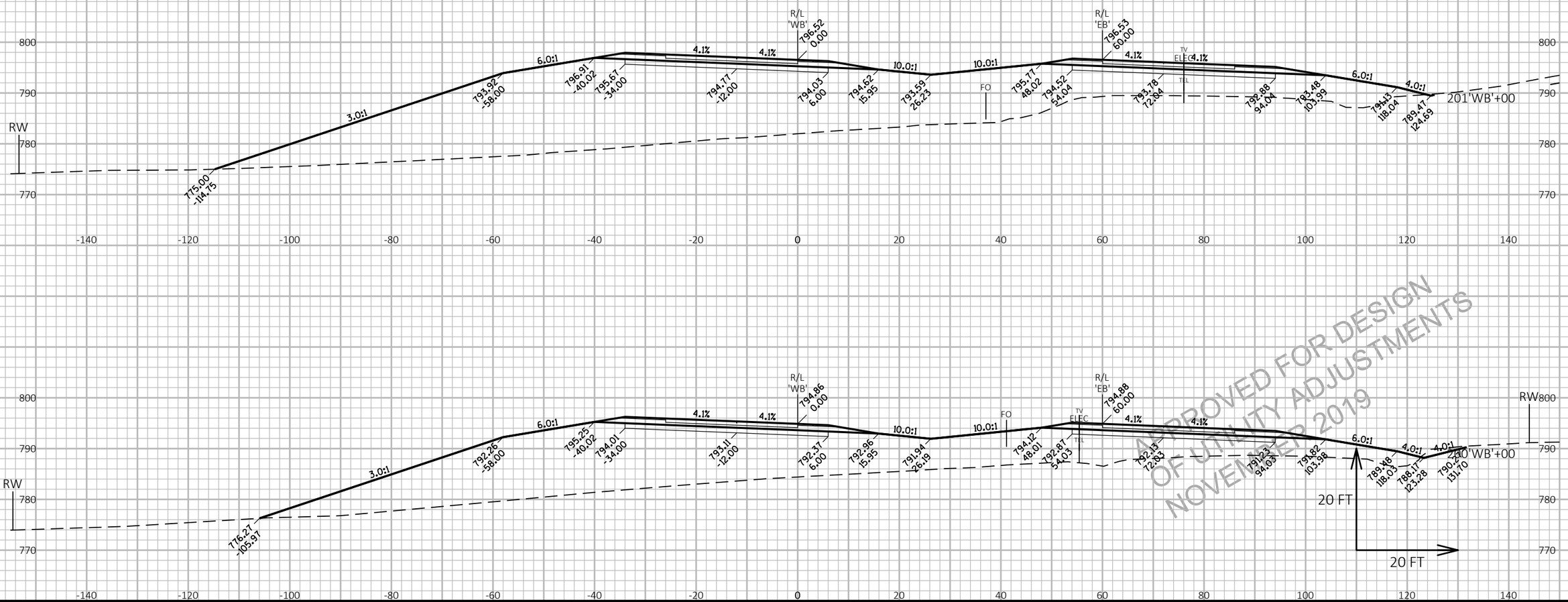
PRE_374

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(03).DWG
LAYOUT NAME - 090302_xs(03)

PLOT DATE : 11/11/2019 1:40 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49





APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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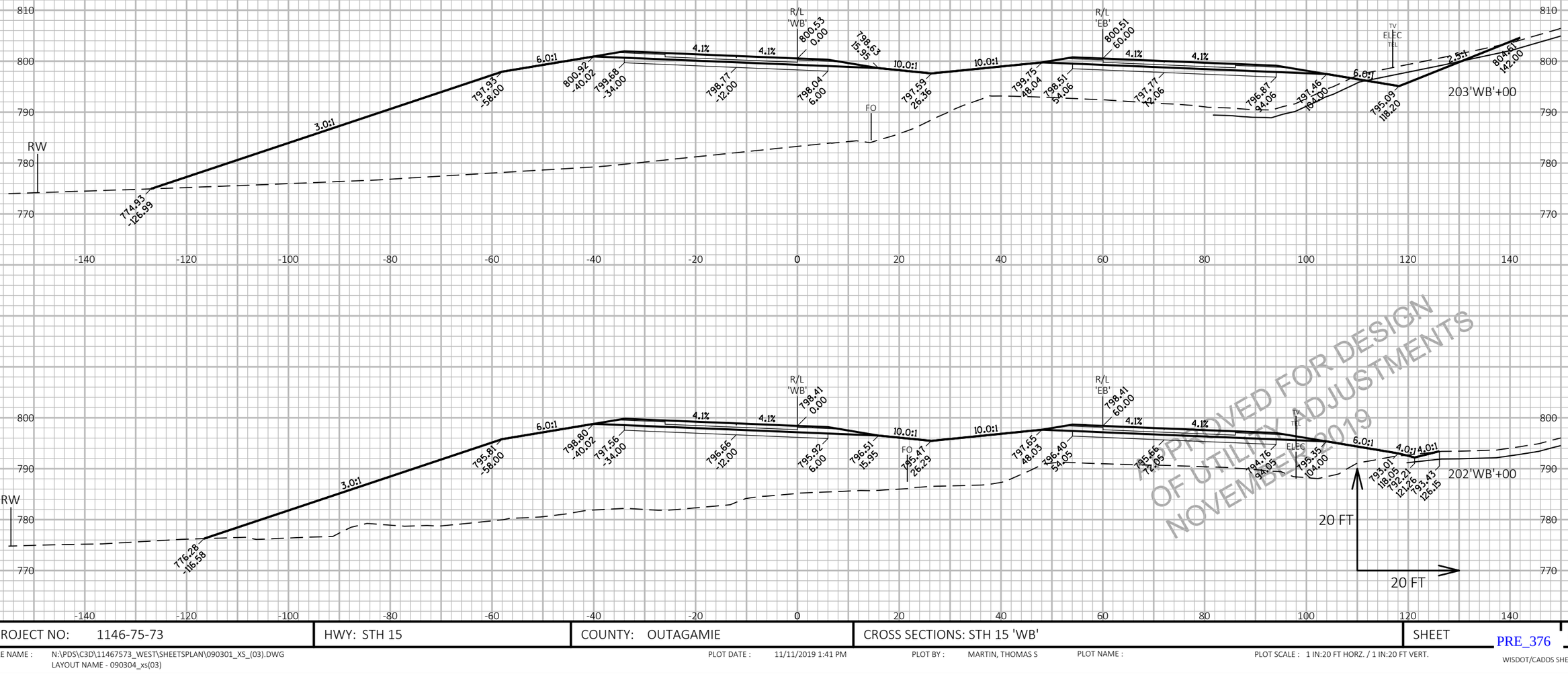
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

PRE_375

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(03).DWG
LAYOUT NAME - 090303_xs(03)

PLOT DATE : 11/11/2019 1:41 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(03).DWG
LAYOUT NAME - 090304_xs(03)

PLOT DATE : 11/11/2019 1:41 PM

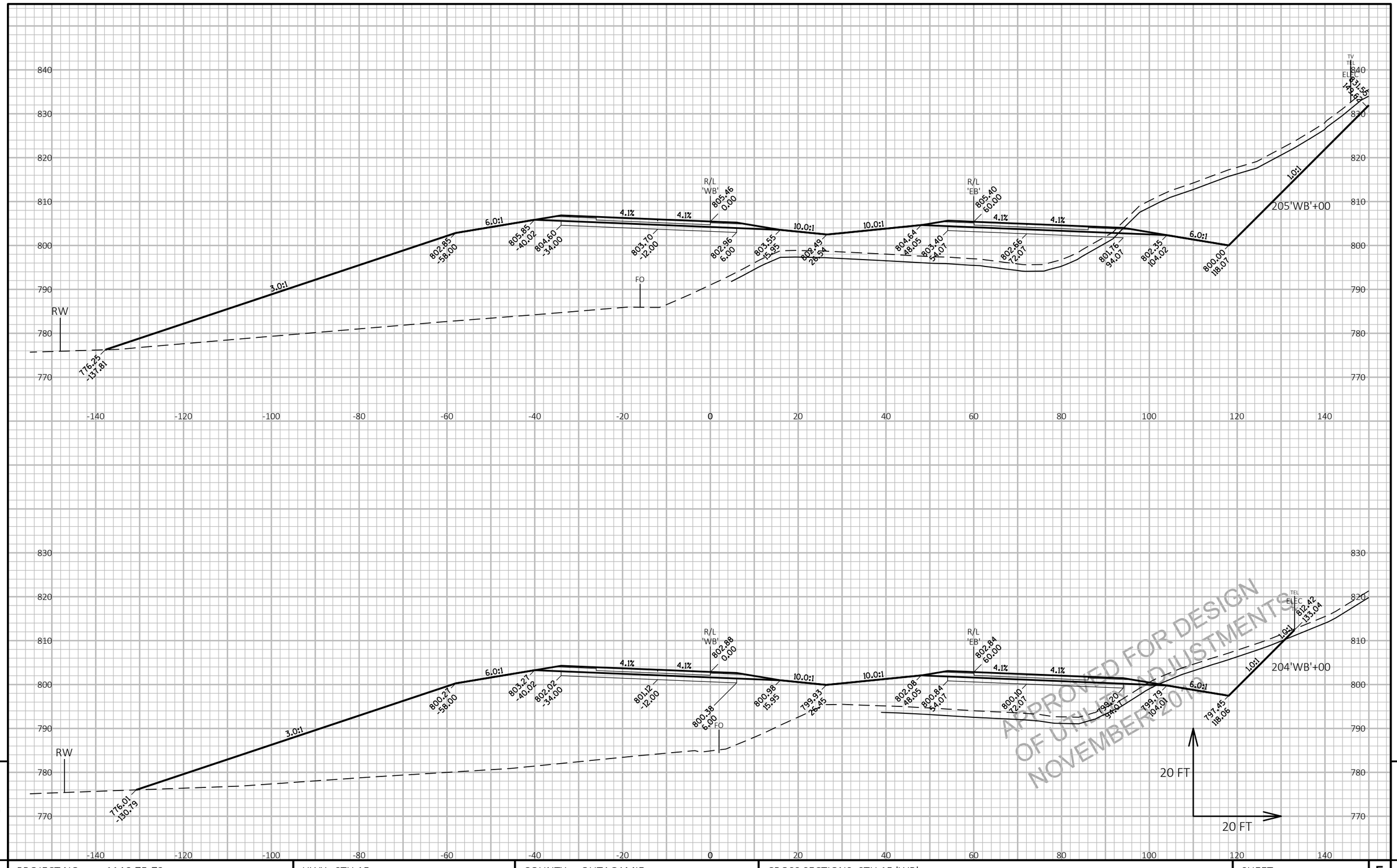
PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_376

WISDOT/CADDS SHEET 49



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OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET

PRE_377

E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(03).DWG
LAYOUT NAME - 090305_xs(03)

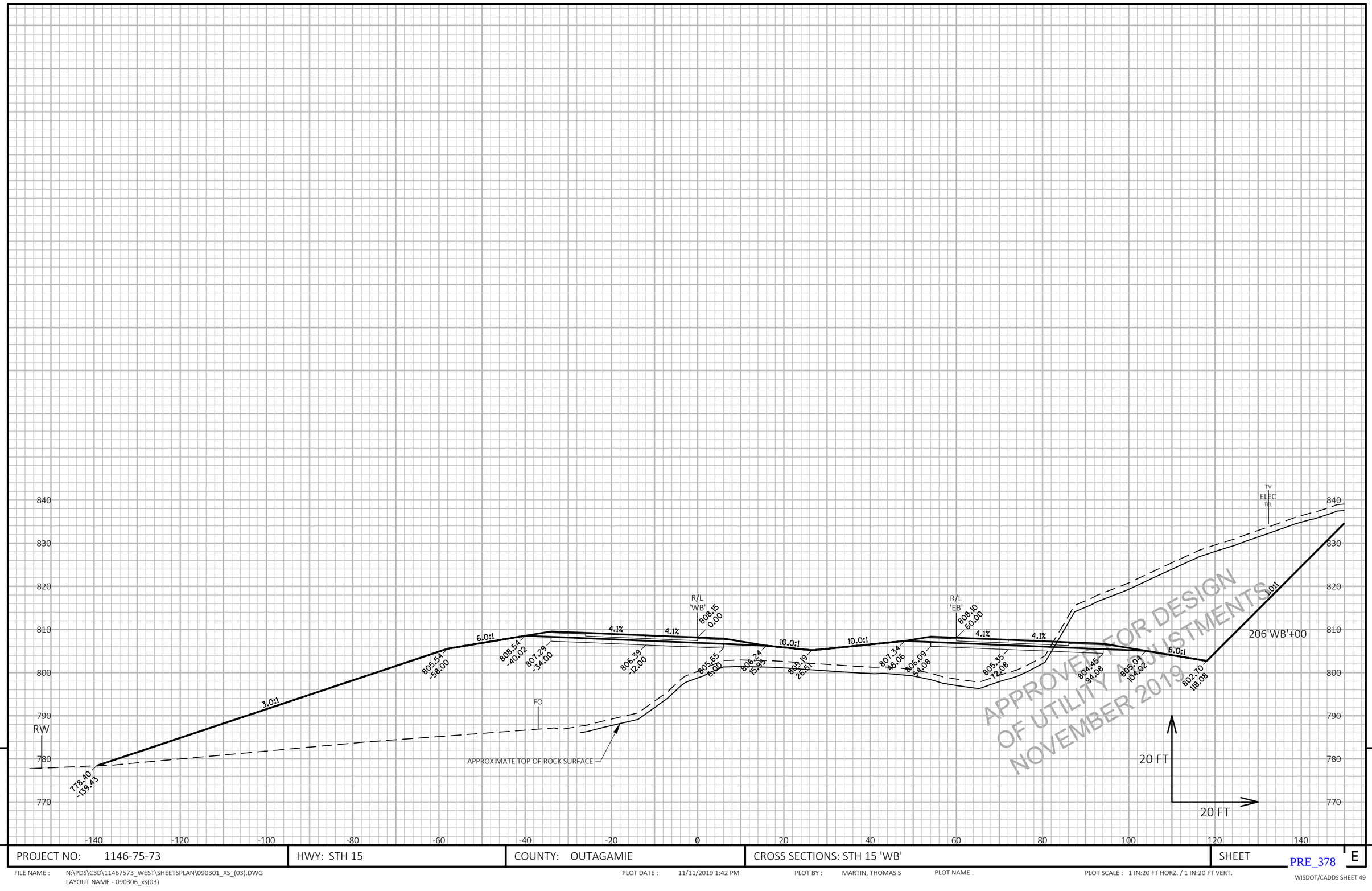
PLOT DATE : 11/11/2019 1:41 PM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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9

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

PRE_378

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(03).DWG
LAYOUT NAME - 090306_xs(03)

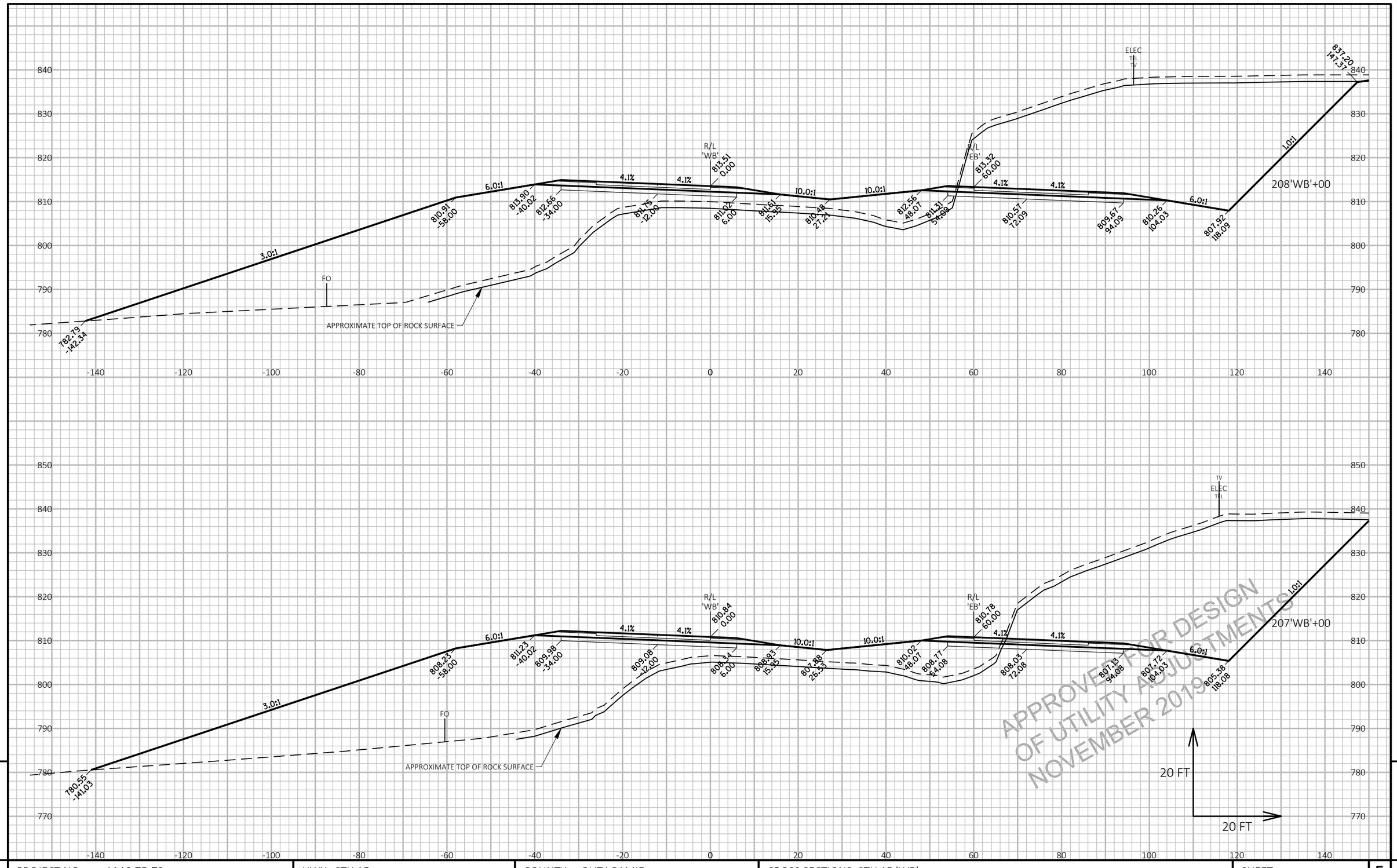
PLOT DATE : 11/11/2019 1:42 PM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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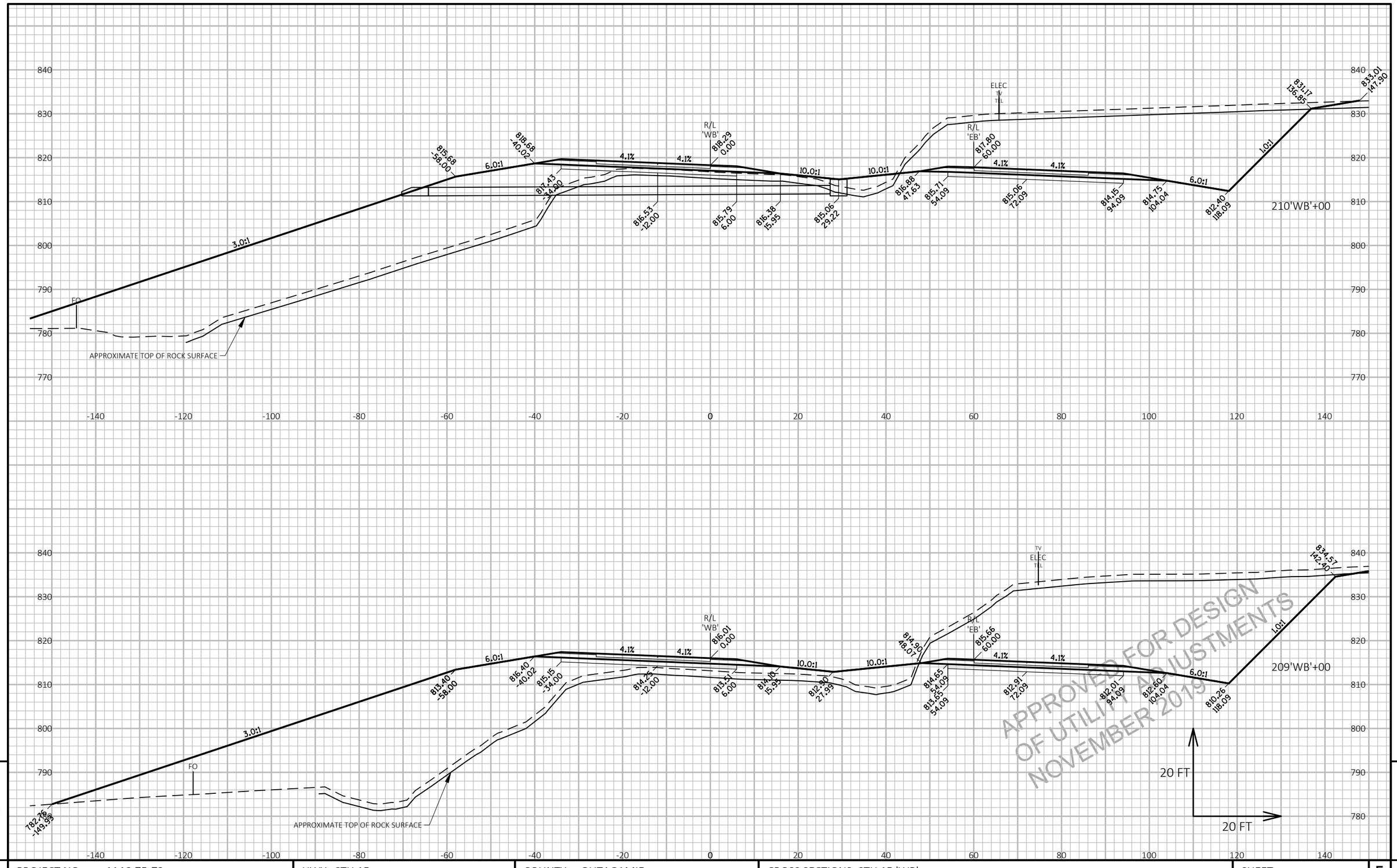
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

PRE_379

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(03).DWG
LAYOUT NAME - 090307_xs(03)

PLOT DATE : 11/11/2019 1:42 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

PRE_380

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(03).DWG
LAYOUT NAME - 090308_xs(03)

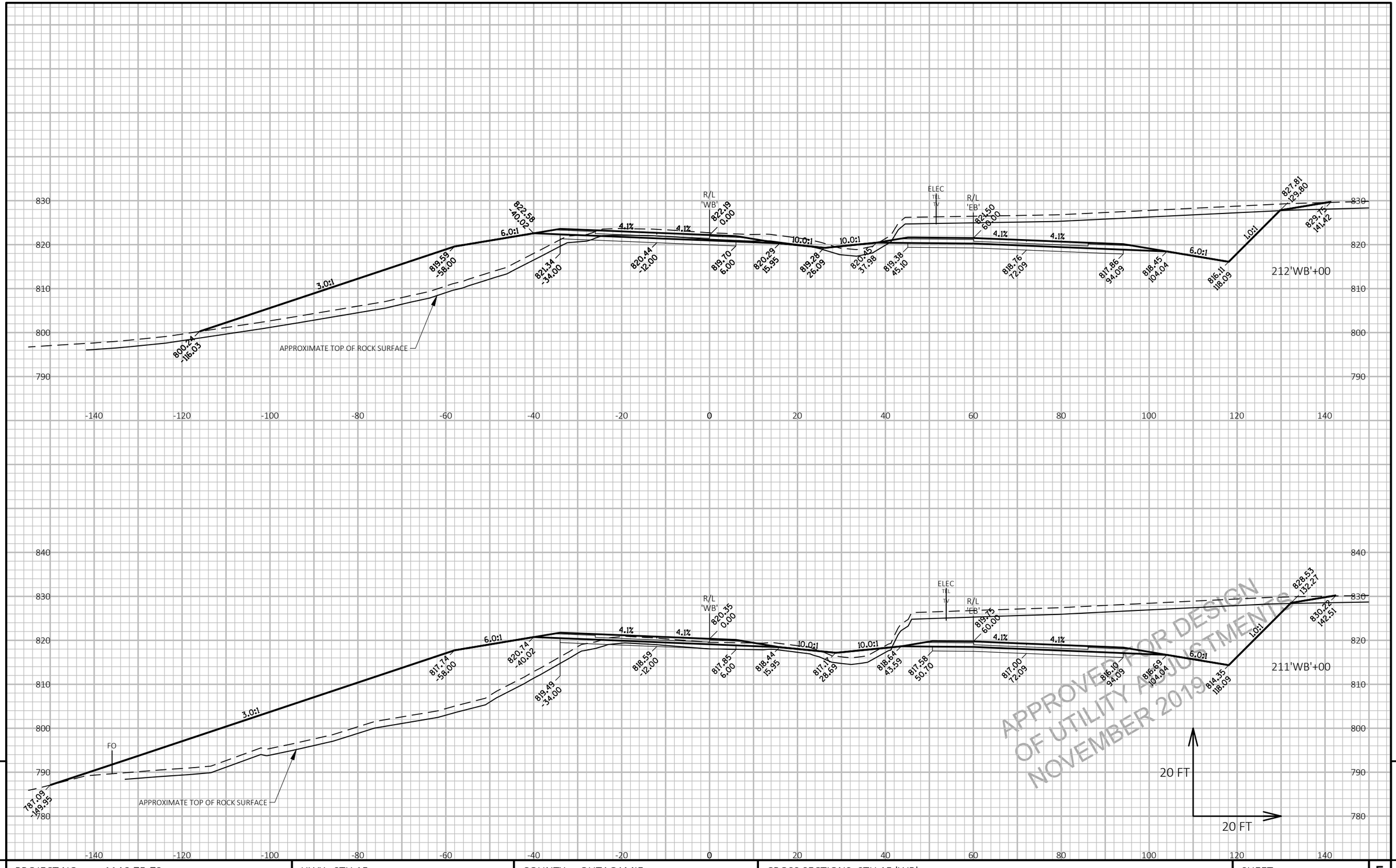
PLOT DATE : 11/11/2019 1:42 PM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS NOVEMBER 2019

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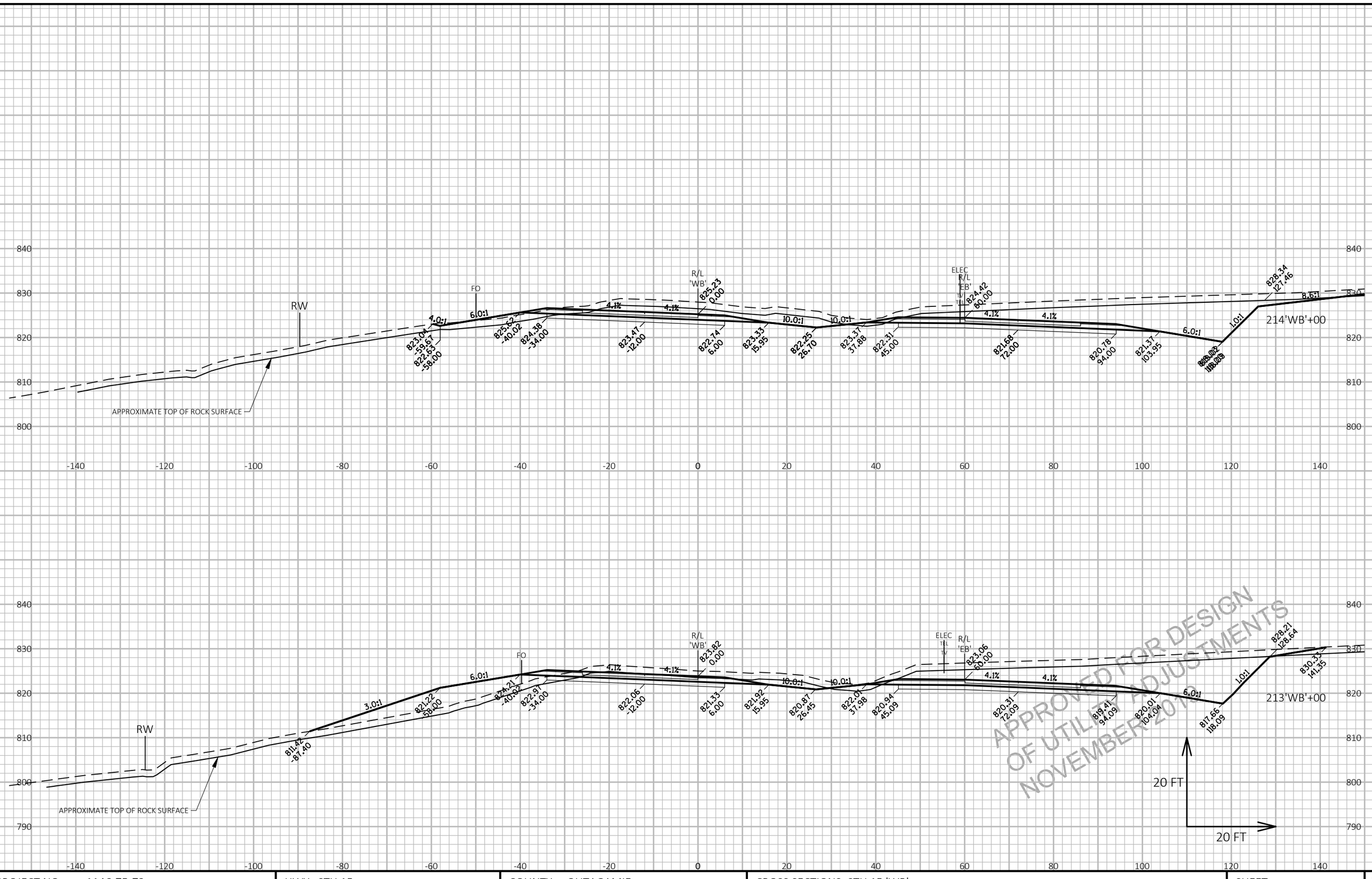
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

PRE_381

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(03).DWG
LAYOUT NAME - 090309_xs(03)

PLOT DATE : 11/11/2019 1:43 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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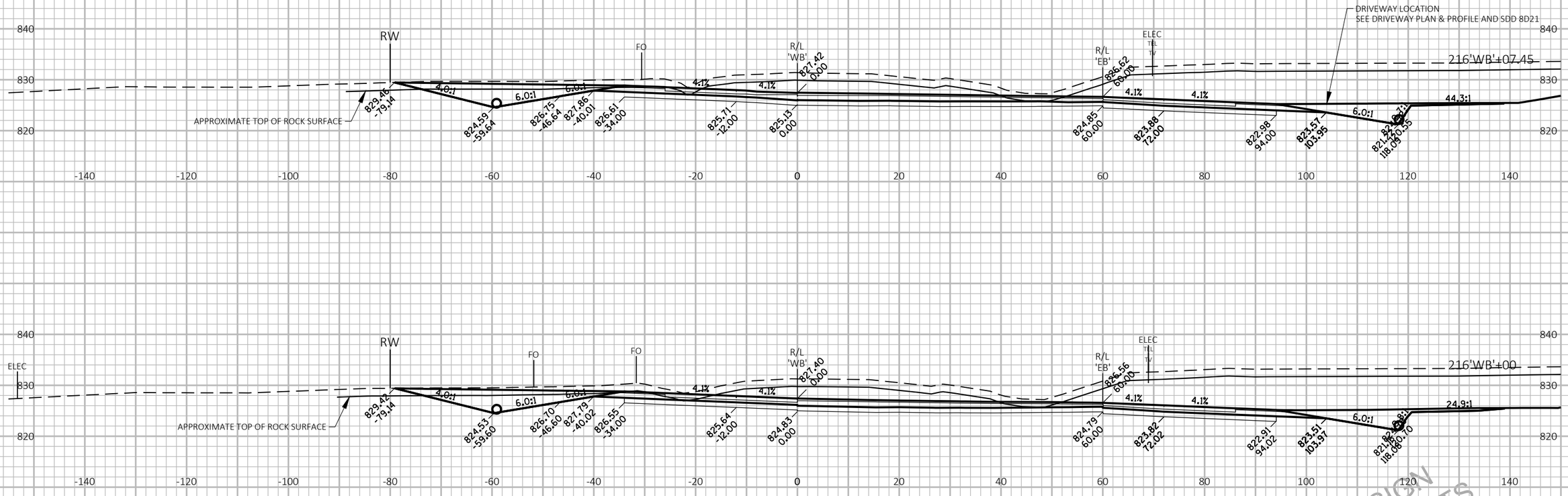
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

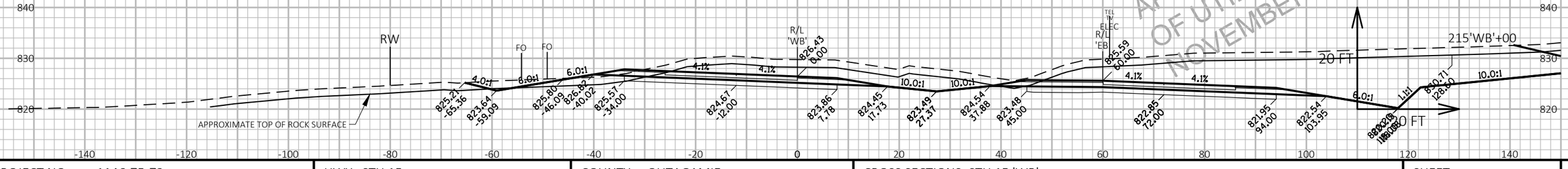
PRE_382

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(03).DWG
LAYOUT NAME - 090310_xs(03)

PLOT DATE : 11/11/2019 1:43 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49





APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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9

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(03).DWG
LAYOUT NAME - 090311_xs(03)

PLOT DATE : 11/11/2019 1:44 PM

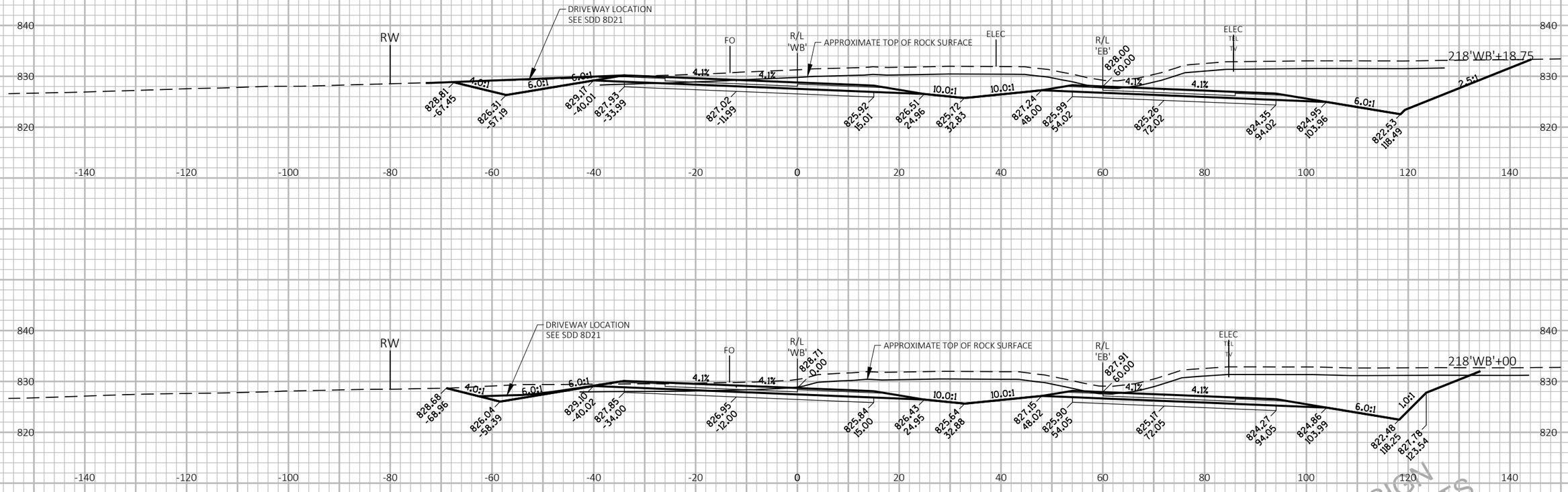
PLOT BY : MARTIN, THOMAS S

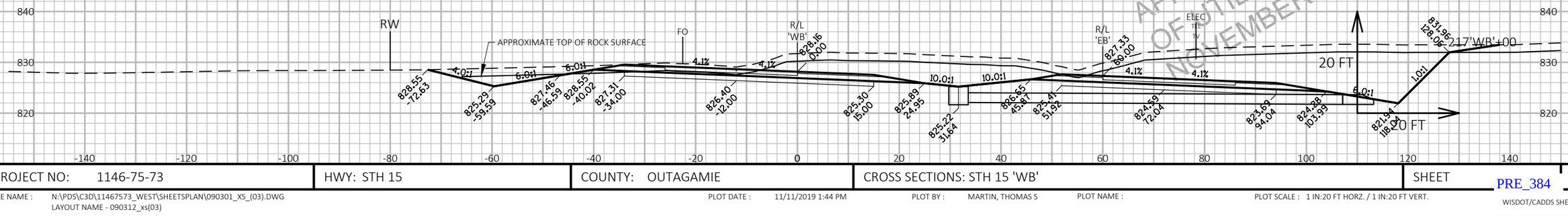
PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_383

WISDOT/CADDS SHEET 49





APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

PRE_384

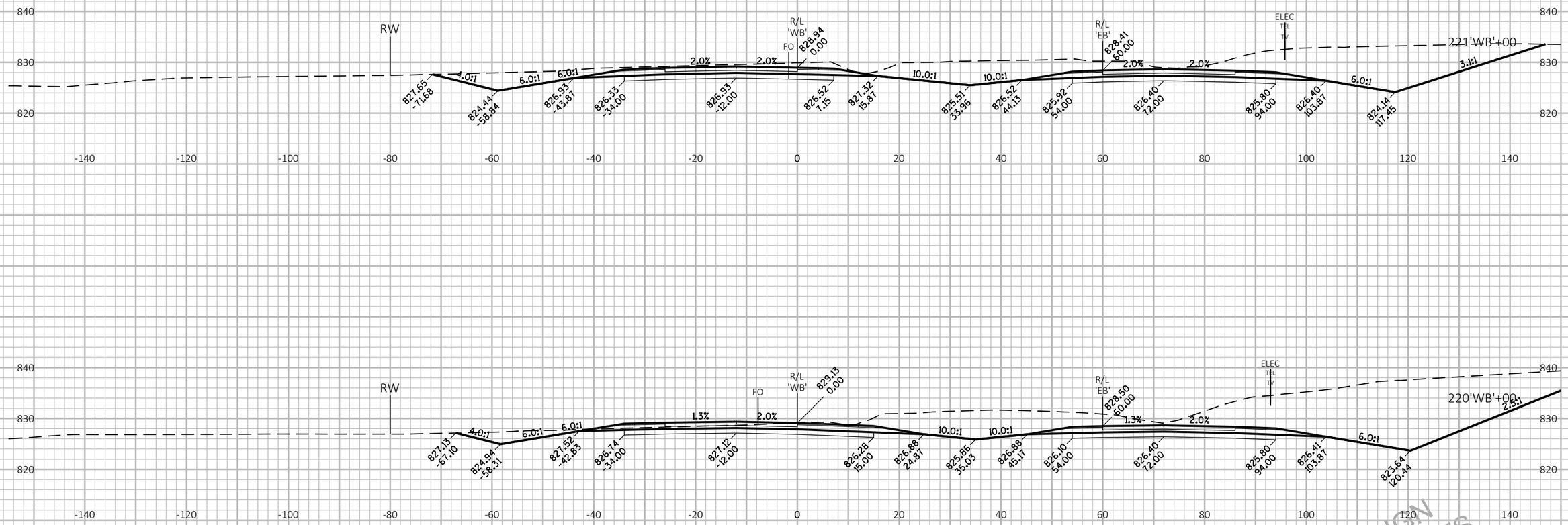
FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(03).DWG
LAYOUT NAME - 090312_xs(03)

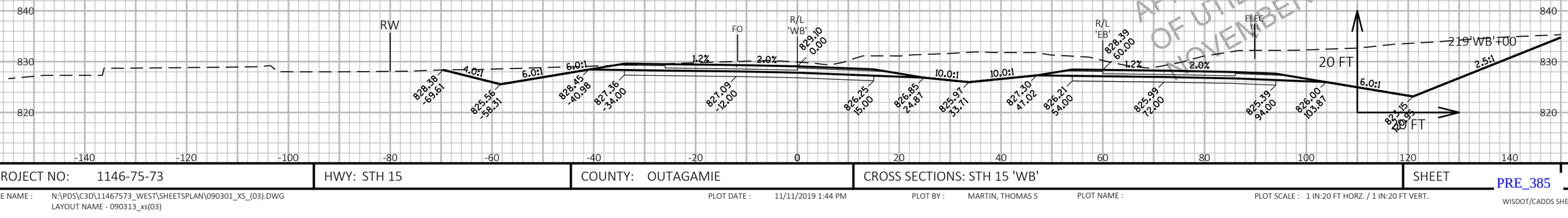
PLOT DATE : 11/11/2019 1:44 PM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.





APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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9

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

PRE_385

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(03).DWG
LAYOUT NAME - 090313_xs(03)

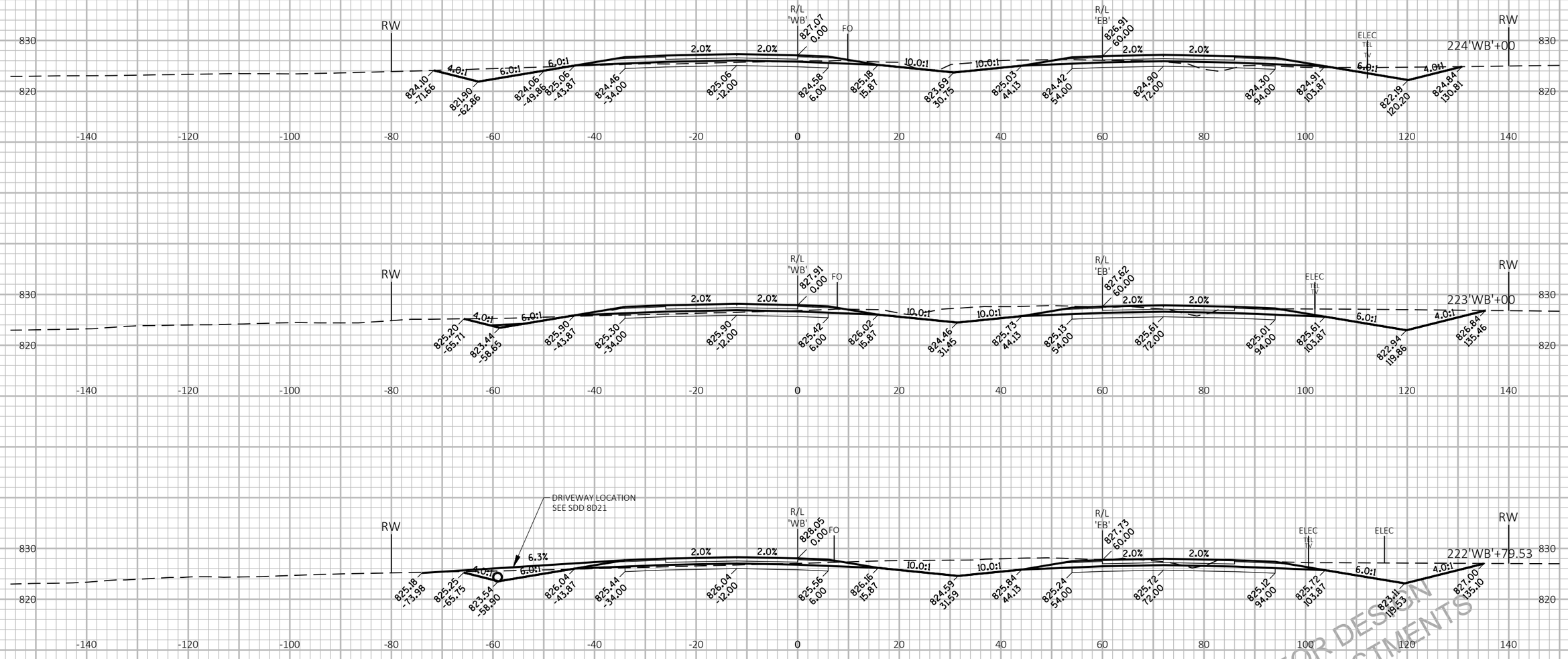
PLOT DATE : 11/11/2019 1:44 PM

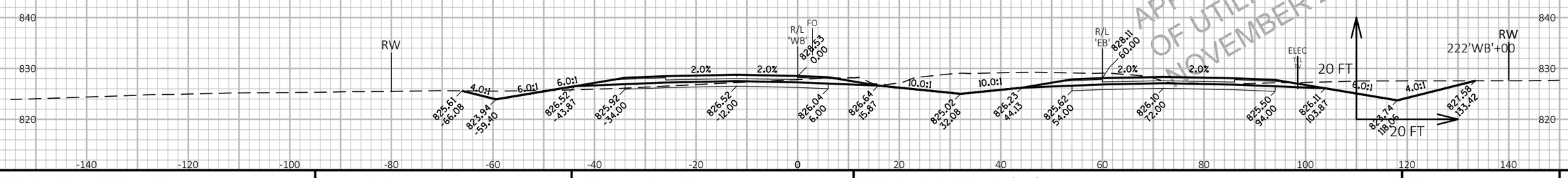
PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49





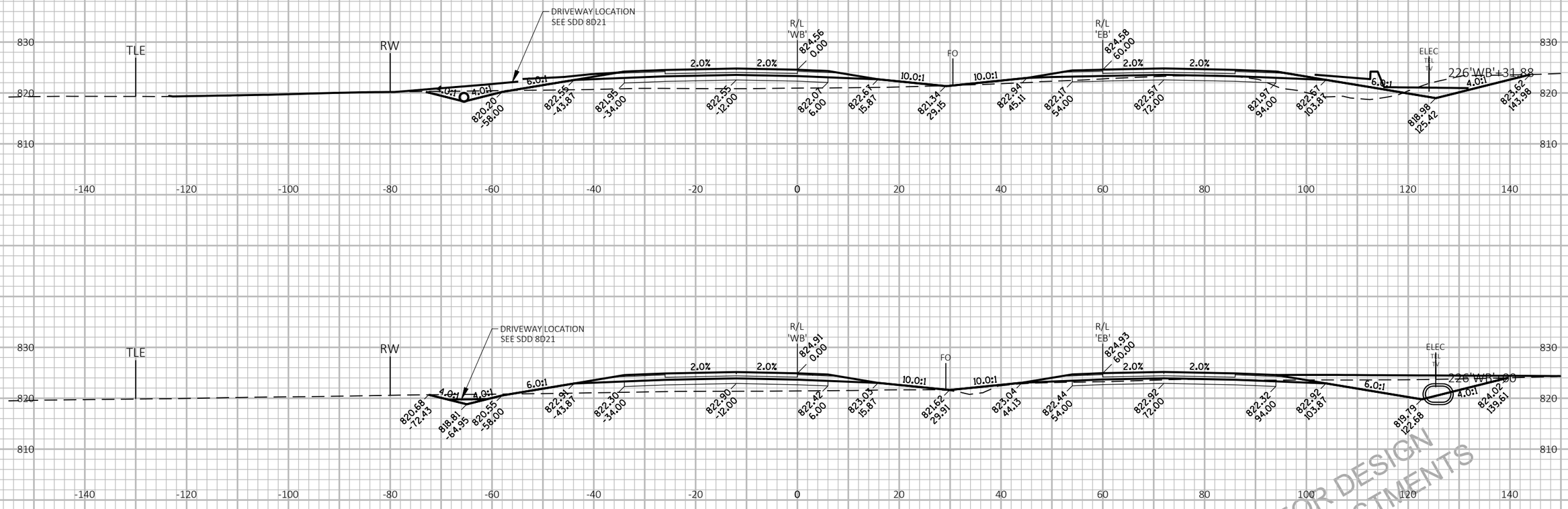
APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

9

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(03).DWG
LAYOUT NAME - 090314_xs(03)

PLOT DATE : 11/11/2019 1:45 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



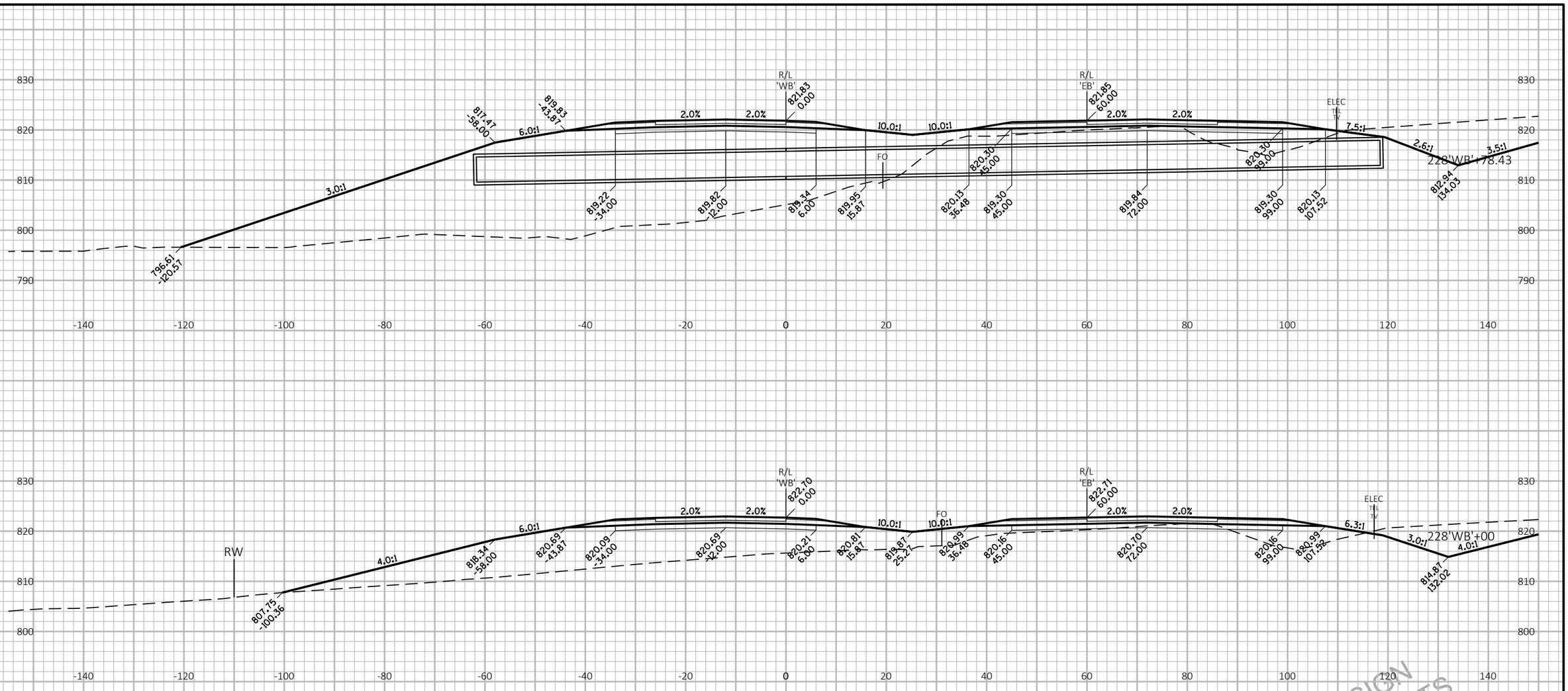
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(03).DWG
LAYOUT NAME - 090315_xs(03)

PLOT DATE : 11/11/2019 1:45 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_387

WISDOT/CADDS SHEET 49



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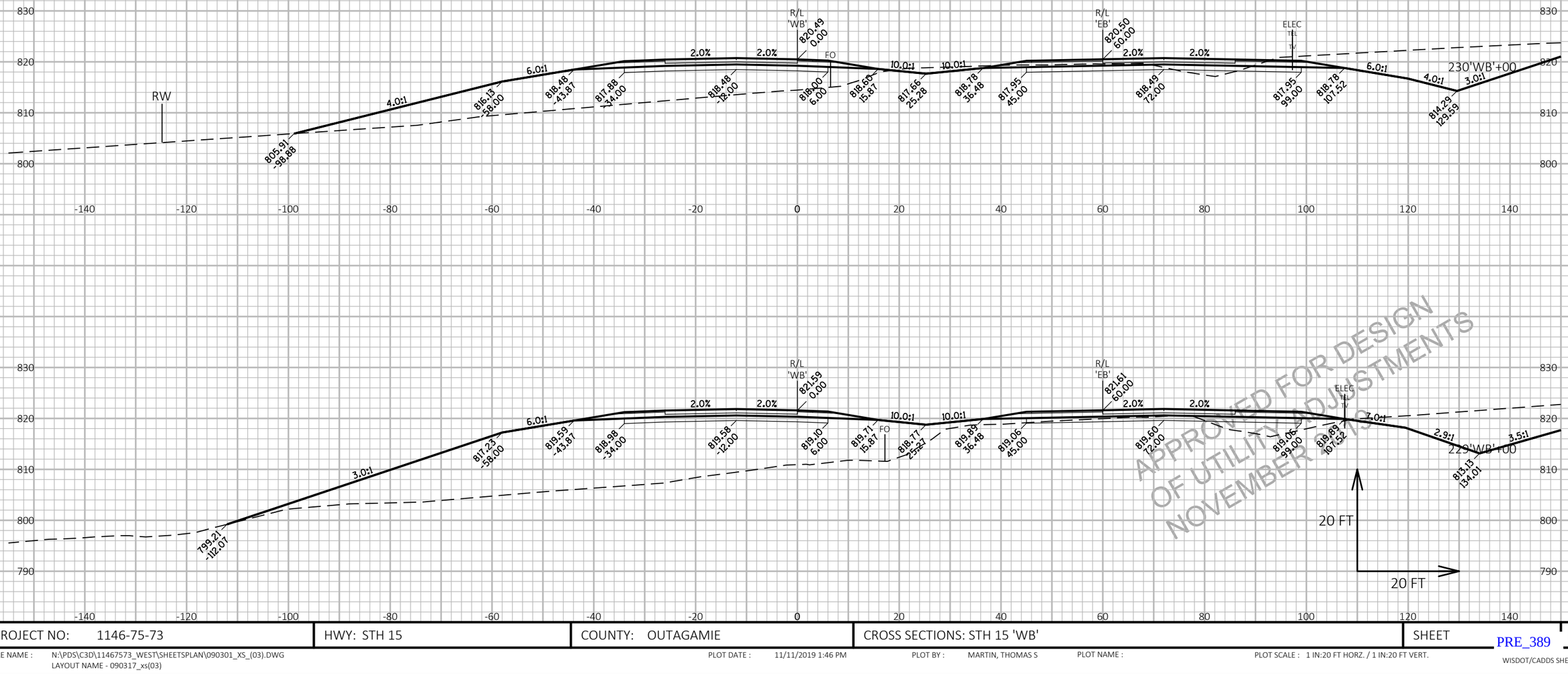
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(03).DWG
LAYOUT NAME - 090316_xs(03)

PLOT DATE : 11/11/2019 1:45 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_388

WISDOT/CADDS SHEET 49



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OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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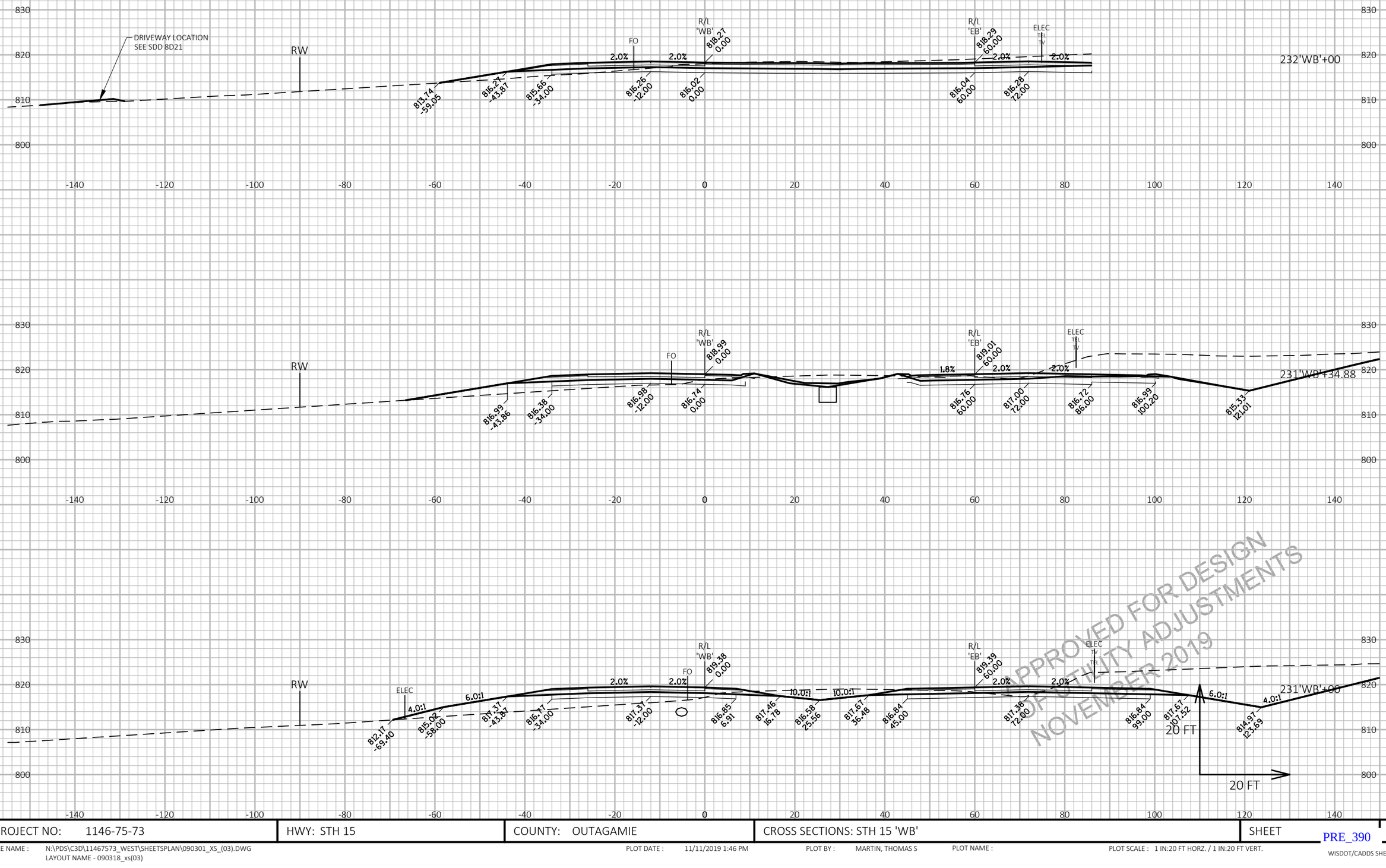
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E



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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

PRE_390

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(03).DWG
LAYOUT NAME - 090318_xs(03)

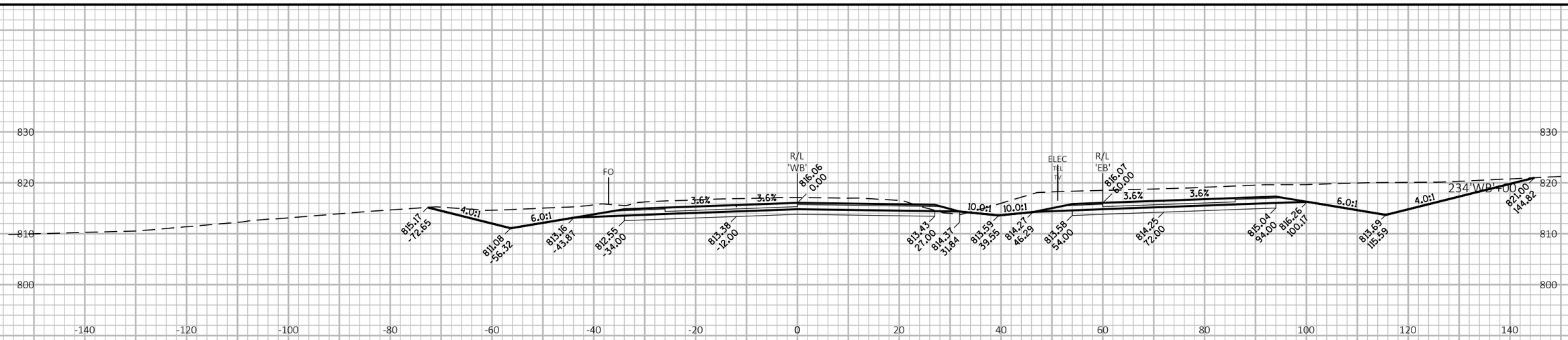
PLOT DATE : 11/11/2019 1:46 PM

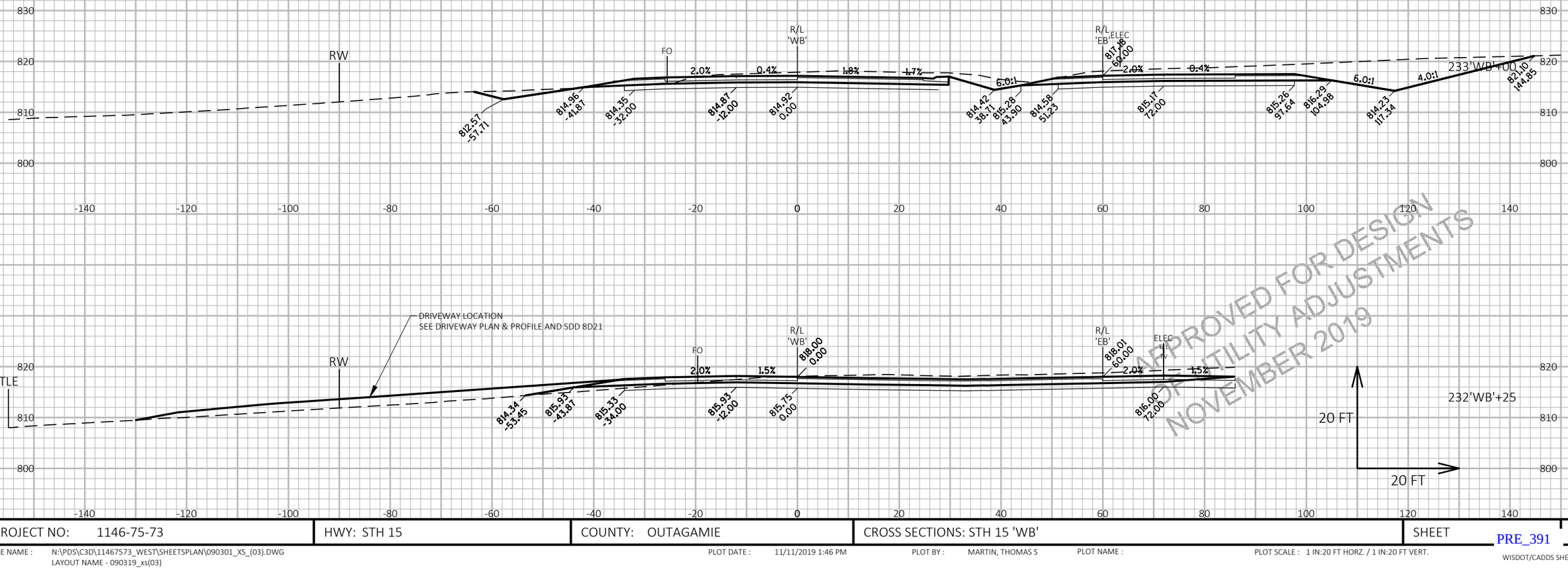
PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49





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UTILITY ADJUSTMENTS
NOVEMBER 2019

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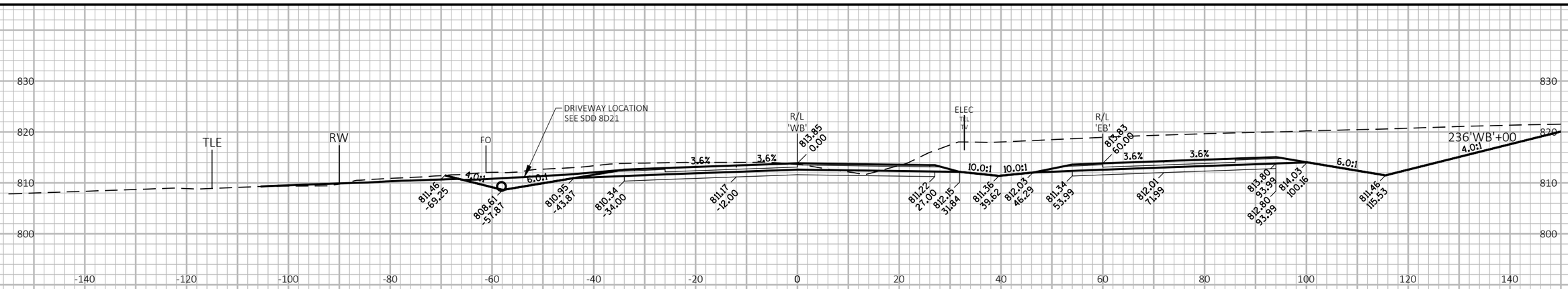
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

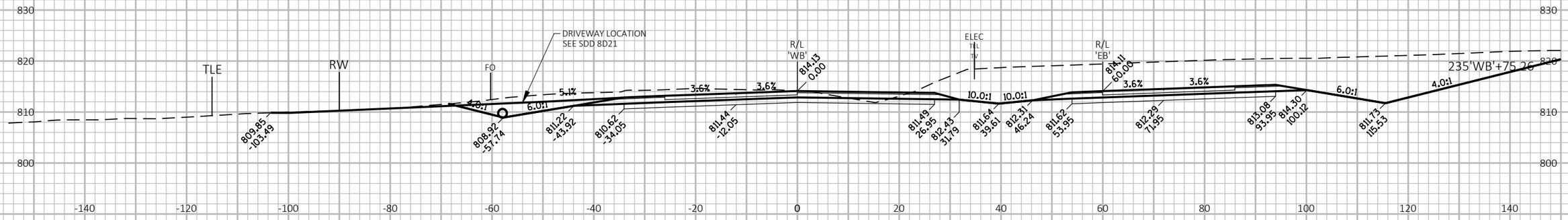
PRE_391

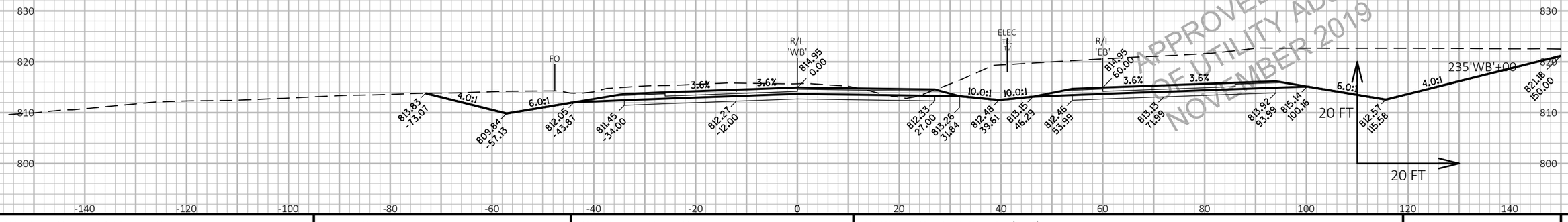
FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(03).DWG
LAYOUT NAME - 090319_xs(03)

PLOT DATE : 11/11/2019 1:46 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49







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UTILITY ADJUSTMENTS
NOVEMBER 2019

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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(03).DWG
LAYOUT NAME - 090320_xs(03)

PLOT DATE : 11/11/2019 1:47 PM

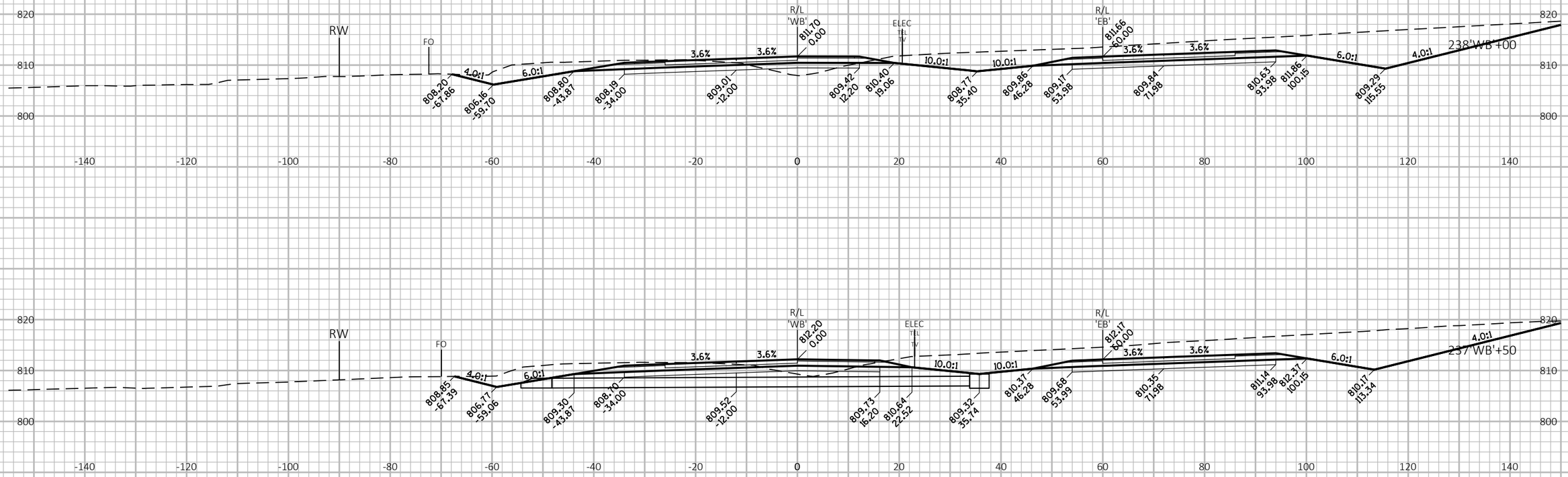
PLOT BY : MARTIN, THOMAS S

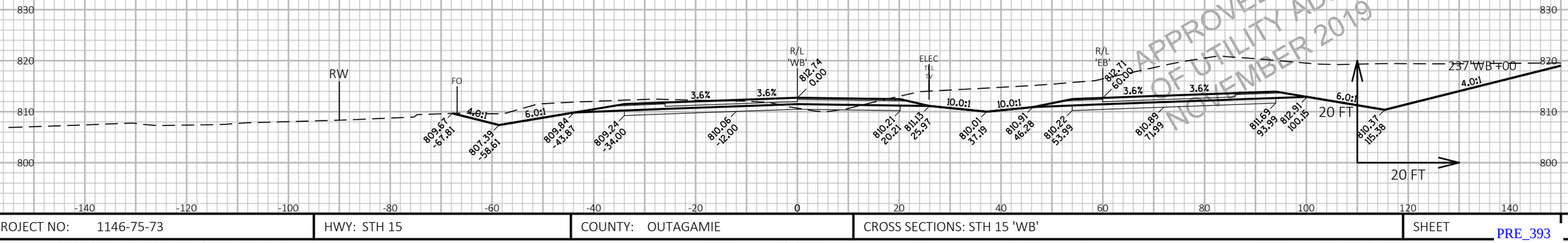
PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_392

WISDOT/CADDS SHEET 49





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NOVEMBER 2019

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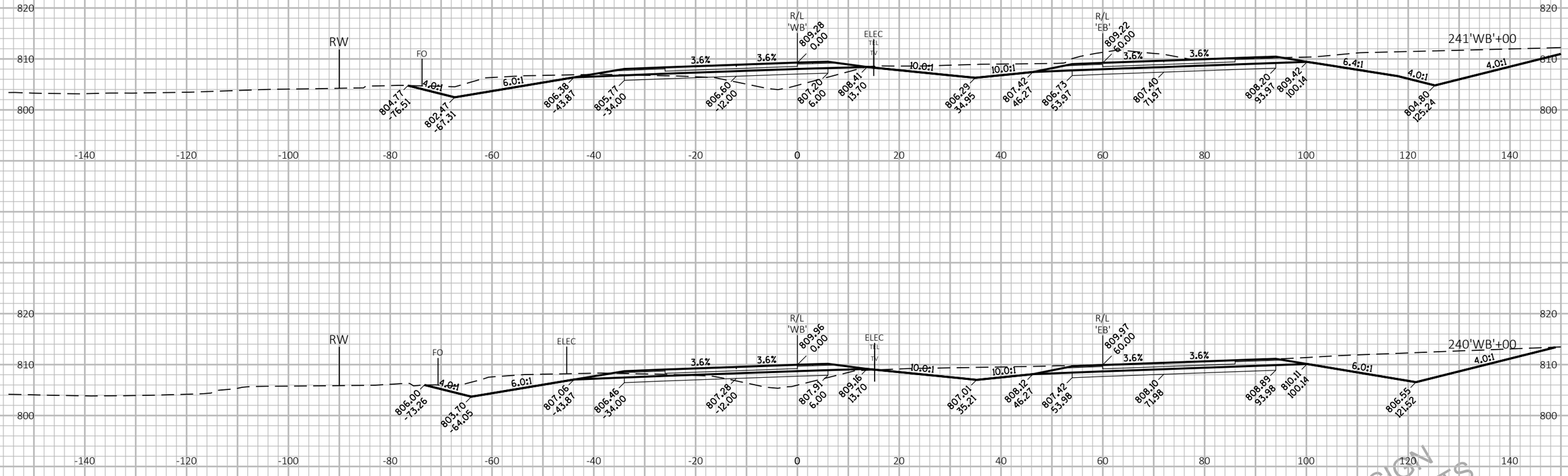
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

PRE_393

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(03).DWG
LAYOUT NAME - 090321_xs(03)

PLOT DATE : 11/11/2019 1:47 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



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NOVEMBER 2019

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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(03).DWG
LAYOUT NAME - 090322_xs(03)

PLOT DATE : 11/11/2019 1:47 PM

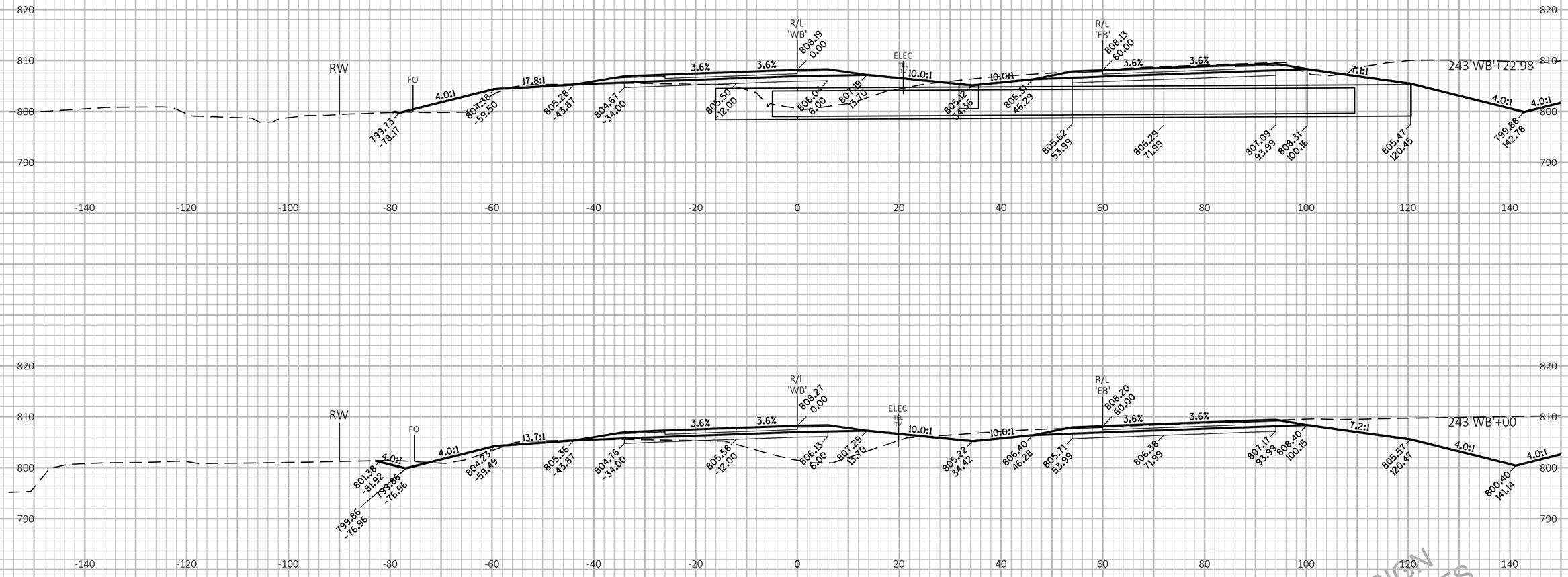
PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_394

WISDOT/CADDS SHEET 49



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NOVEMBER 2019

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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

PRE_395

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(03).DWG
LAYOUT NAME - 090323_xs(03)

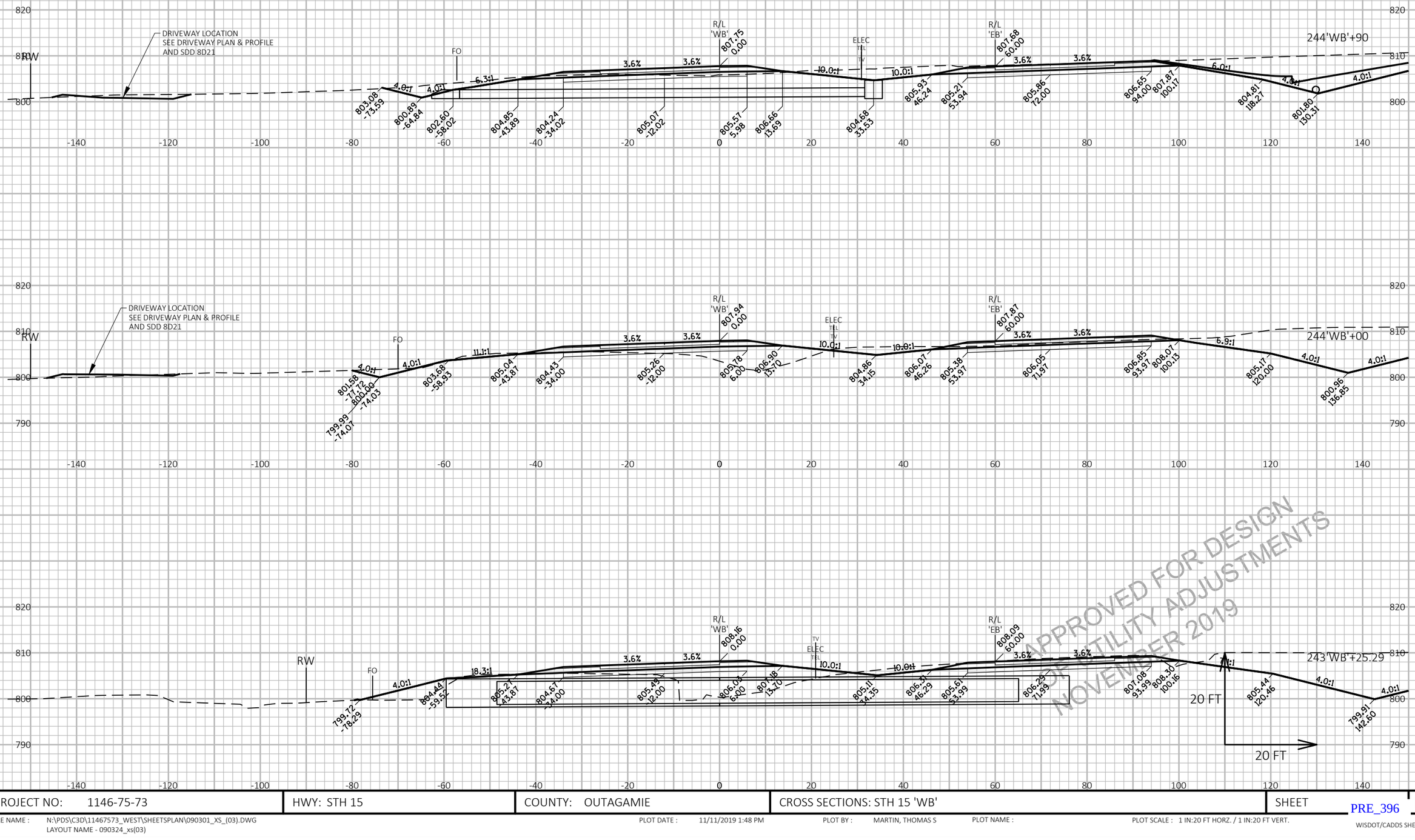
PLOT DATE : 11/11/2019 1:47 PM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



APPROVED FOR DESIGN
UTILITY ADJUSTMENTS
NOVEMBER 2019

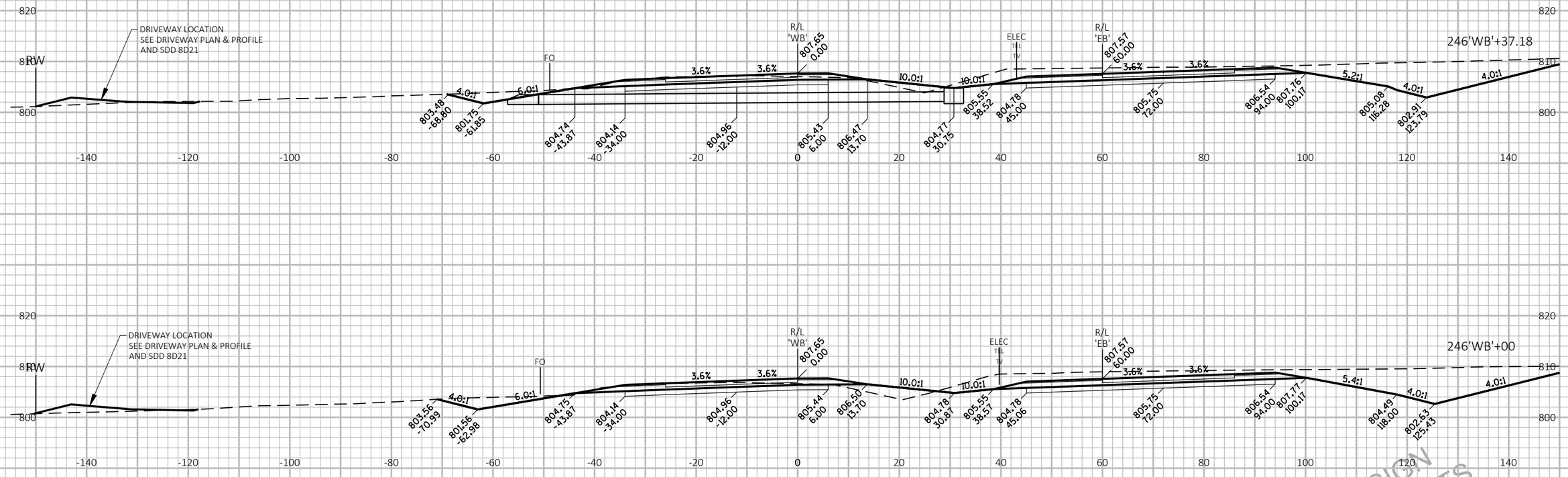
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

PRE_396

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(03).DWG
LAYOUT NAME - 090324_xs(03)

PLOT DATE : 11/11/2019 1:48 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

PRE_397

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(03).DWG
LAYOUT NAME - 090325_xs(03)

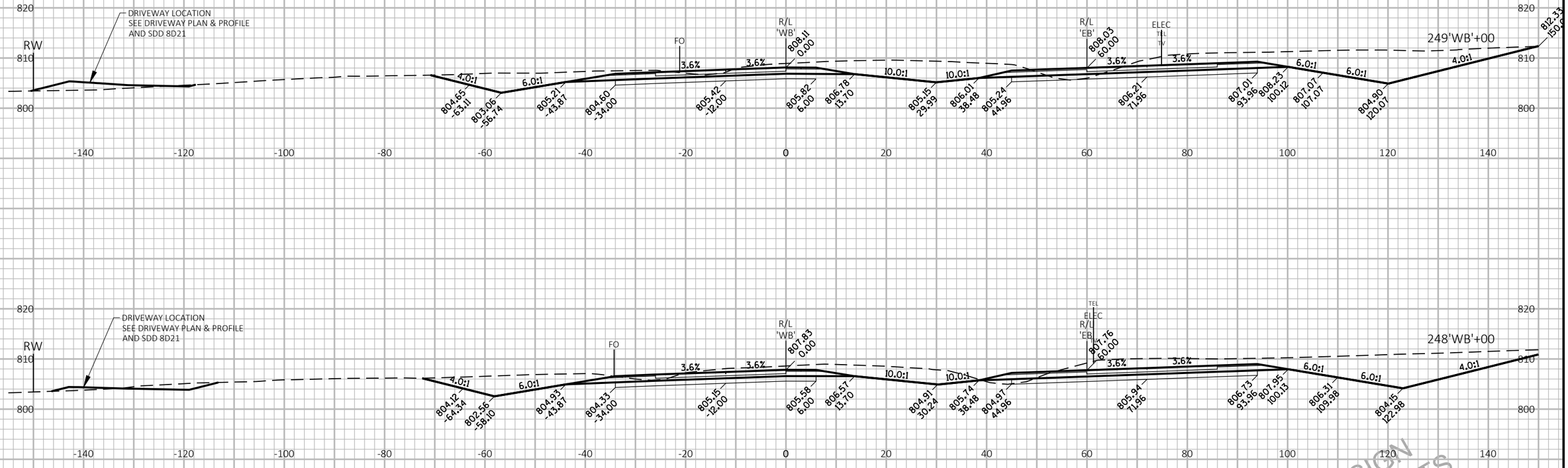
PLOT DATE : 11/11/2019 1:48 PM

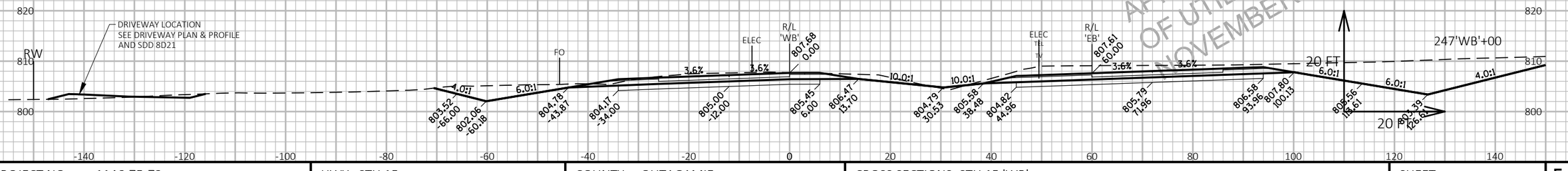
PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49





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OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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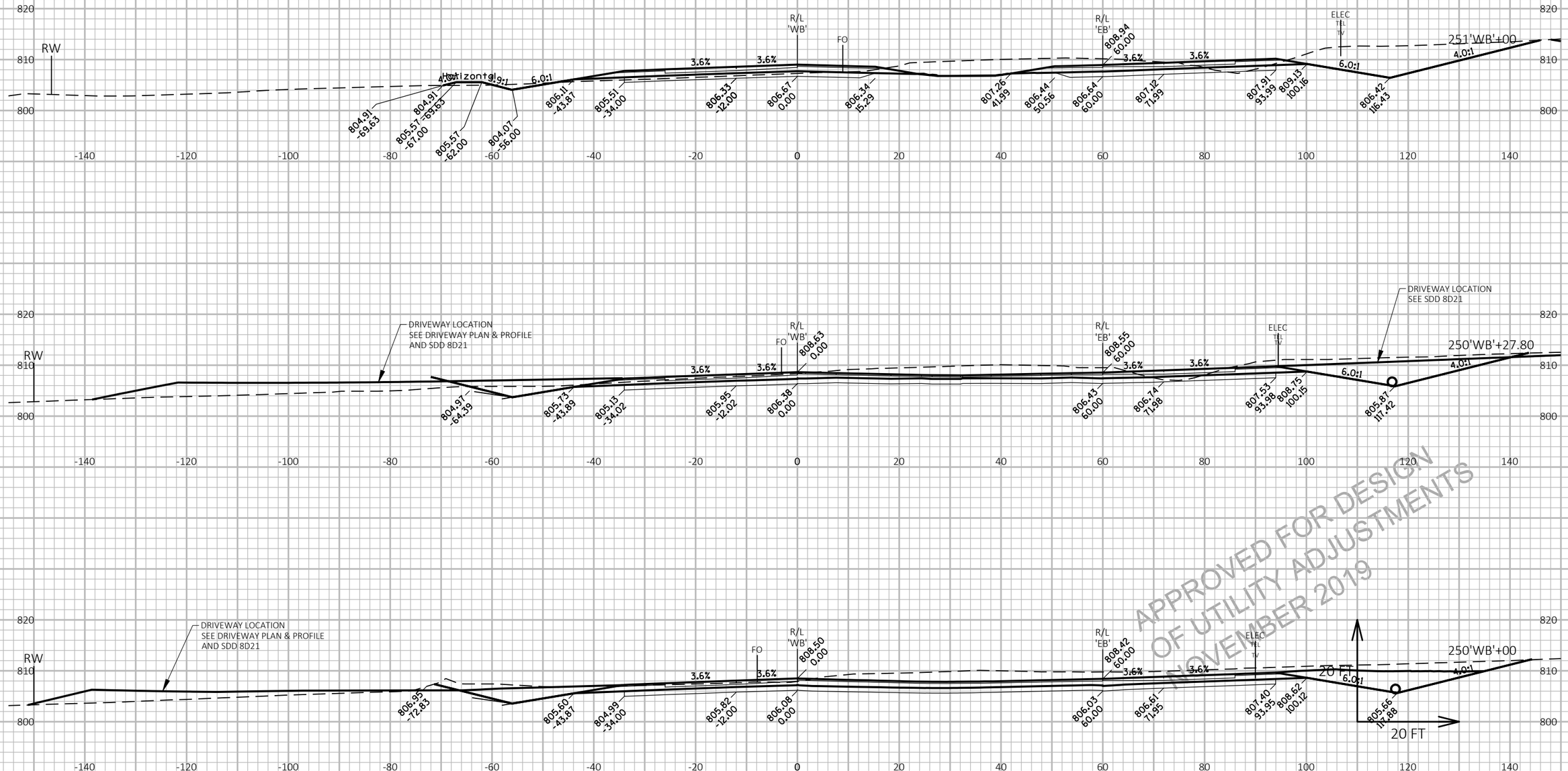
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

PRE_398

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(03).DWG
LAYOUT NAME - 090326_xs(03)

PLOT DATE : 11/11/2019 1:48 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



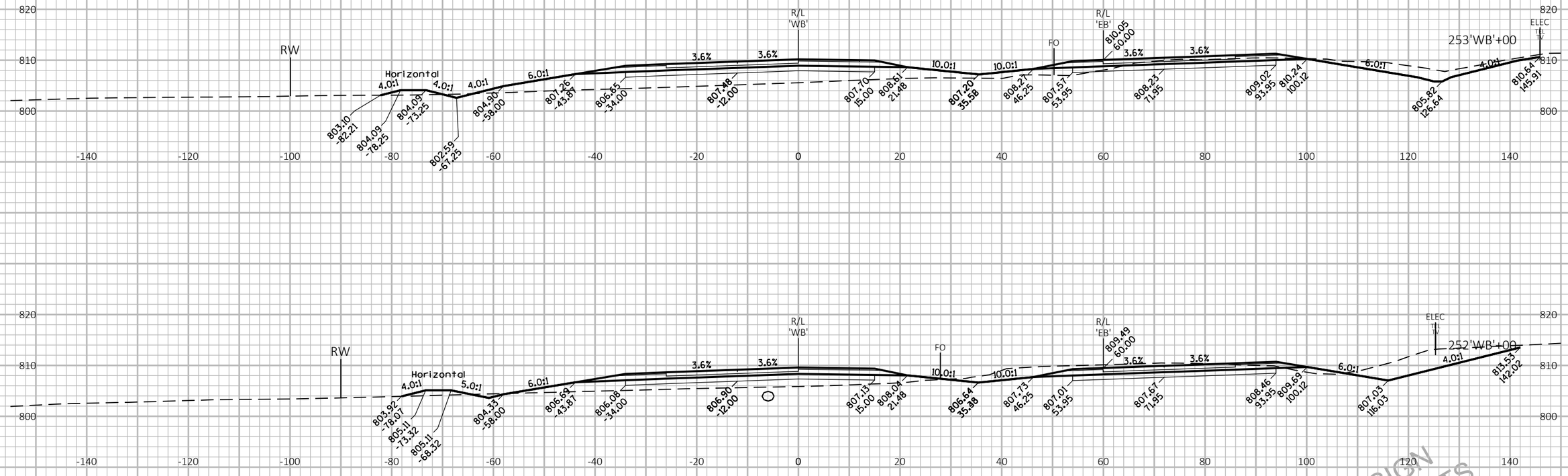
APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(03).DWG
LAYOUT NAME - 090327_xs(03)
PLOT DATE : 11/11/2019 1:49 PM
PLOT BY : MARTIN, THOMAS S
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_399

WISDOT/CADDS SHEET 49



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NOVEMBER 2019

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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(03).DWG
LAYOUT NAME - 090328_xs(03)

PLOT DATE : 11/11/2019 1:49 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_400

WISDOT/CADDS SHEET 49

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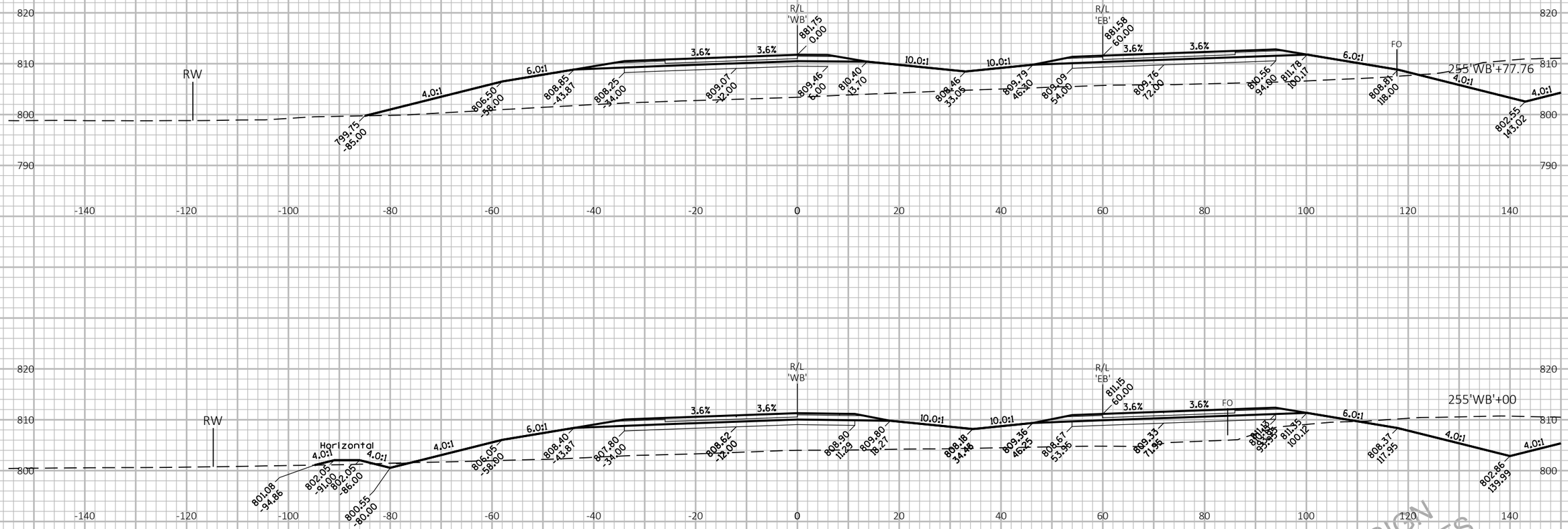

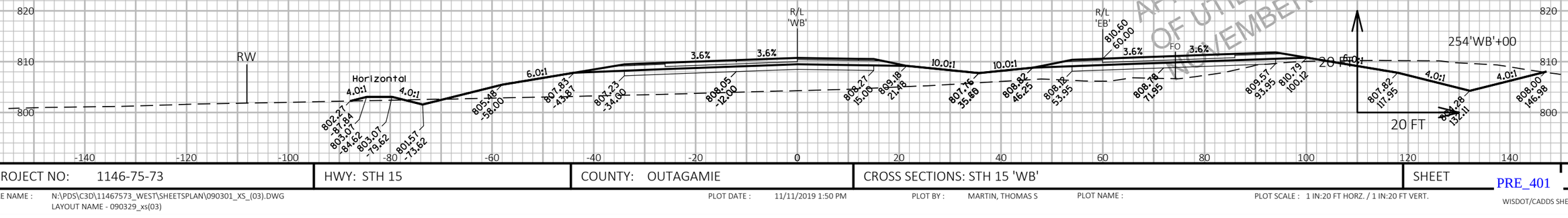

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NOVEMBER 2019

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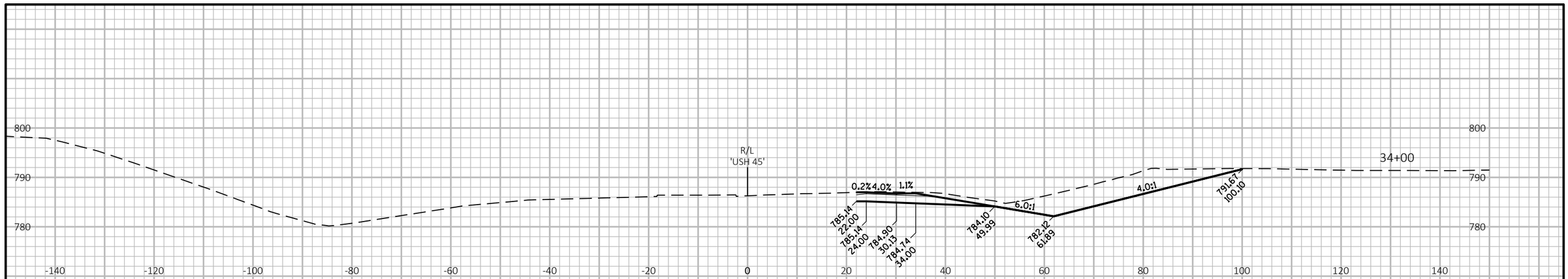
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: STH 15 'WB'	SHEET E

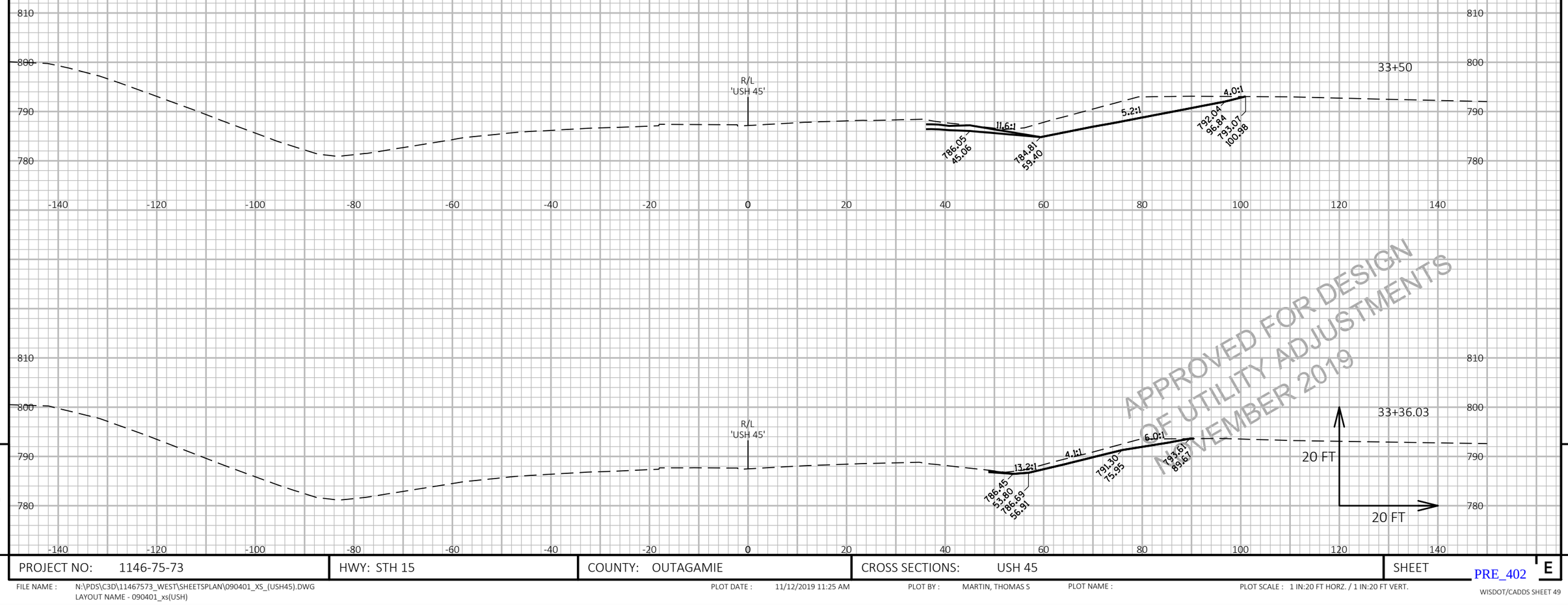
FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090301_XS_(03).DWG
LAYOUT NAME - 090329_xs(03)

PLOT DATE : 11/11/2019 1:50 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_401

WISDOT/CADDS SHEET 49





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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: USH 45	SHEET E

PRE_402

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090401_XS_(USH45).DWG
LAYOUT NAME - 090401_xs(USH)

PLOT DATE : 11/12/2019 11:25 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

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OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: USH 45	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090401_XS_(USH45).DWG
LAYOUT NAME - 090402_xs(USH)

PLOT DATE : 11/12/2019 11:25 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_403

WISDOT/CADDS SHEET 49

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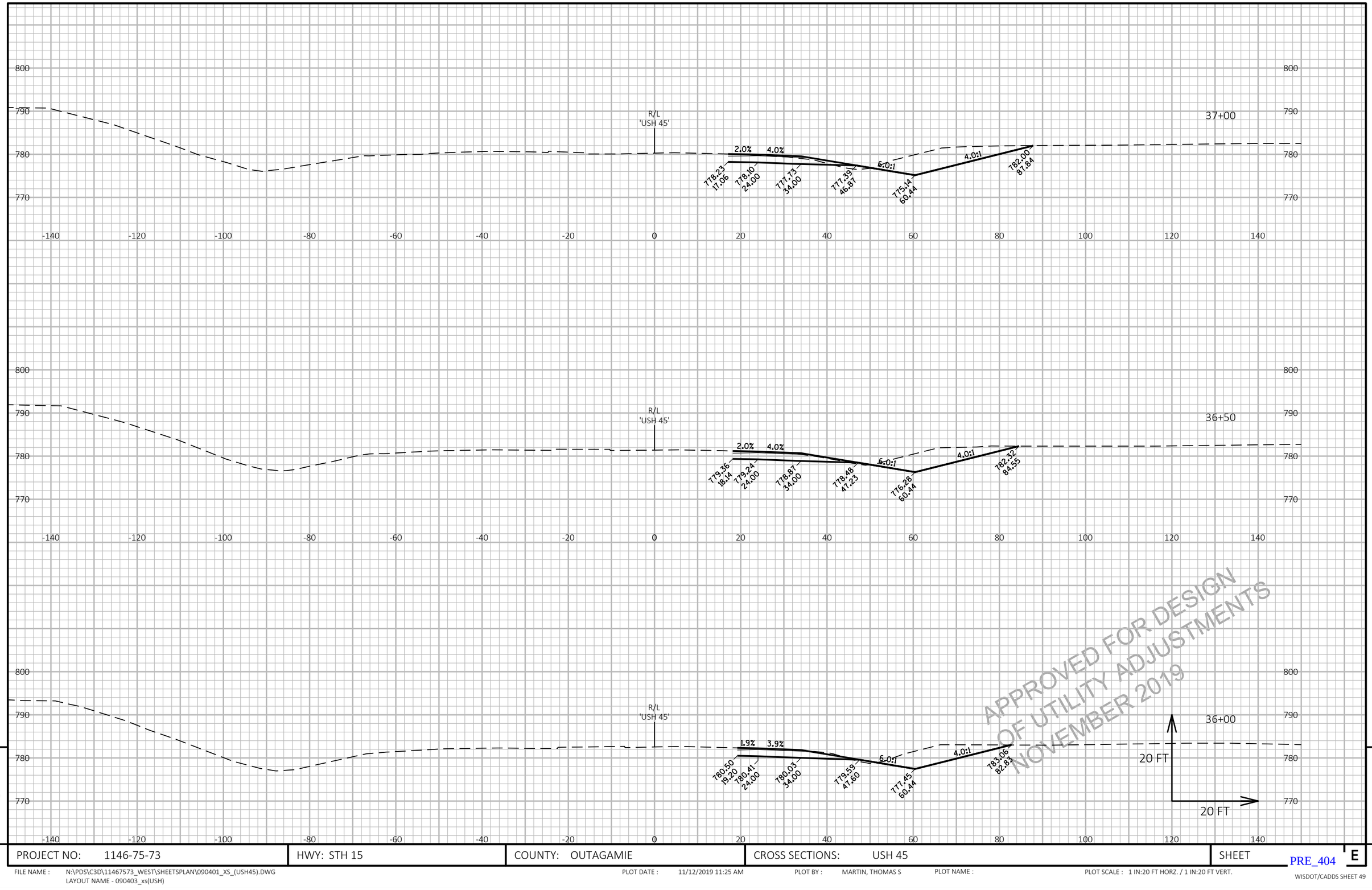

APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: USH 45	SHEET

PRE_404 E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090401_XS_(USH45).DWG
LAYOUT NAME - 090403_xs(USH)

PLOT DATE : 11/12/2019 11:25 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

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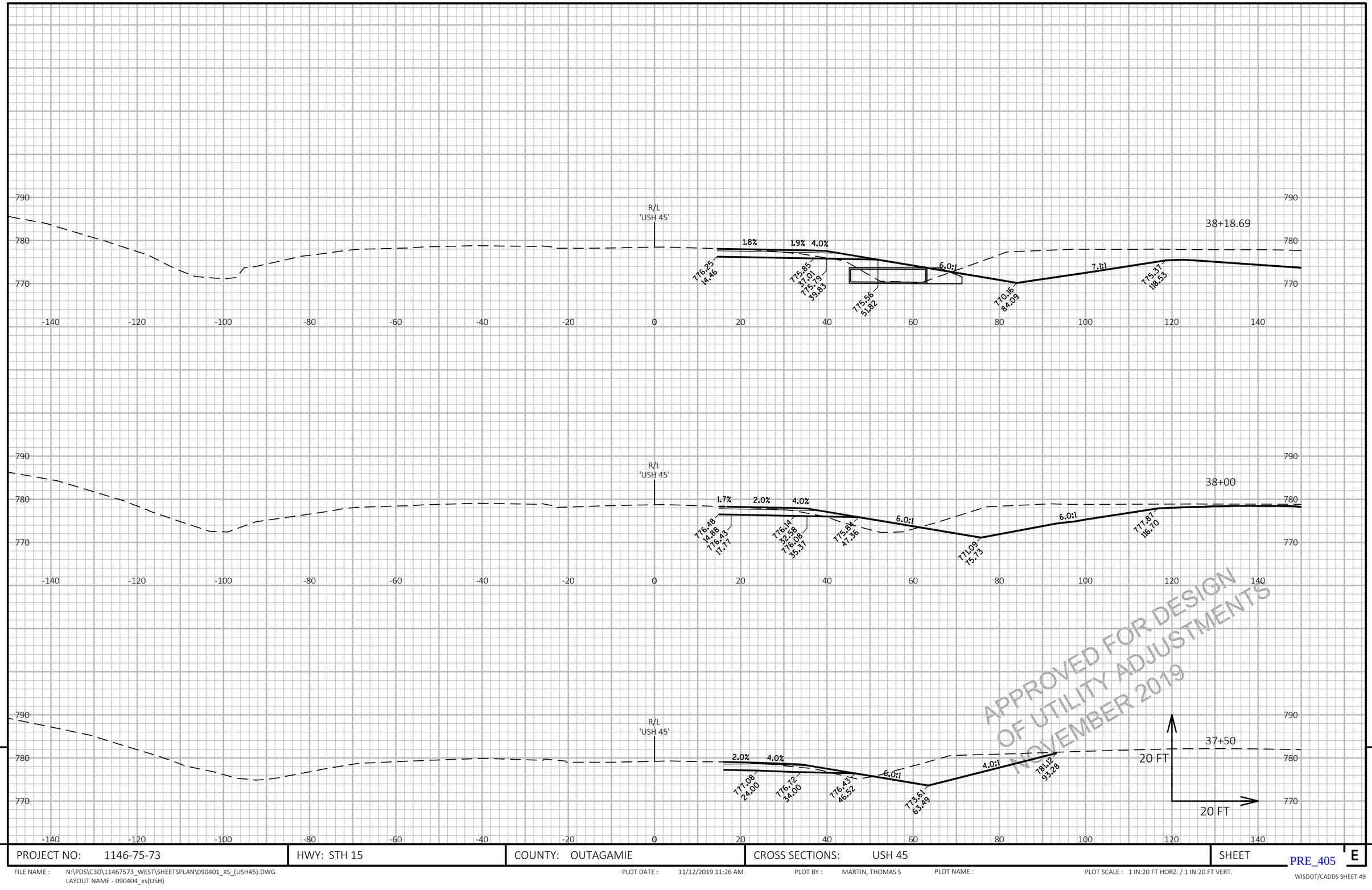

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NOVEMBER 2019

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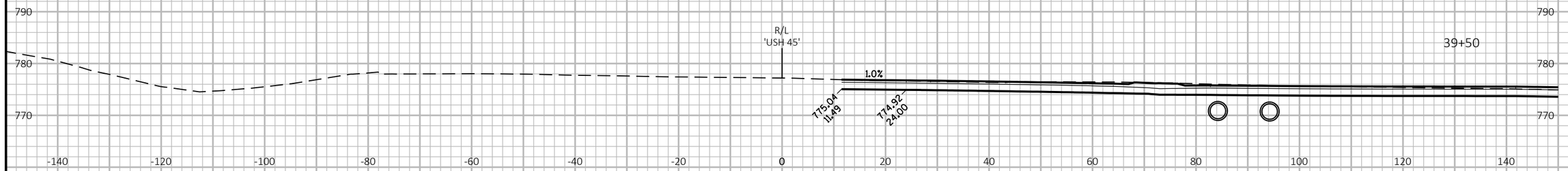
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: USH 45	SHEET E

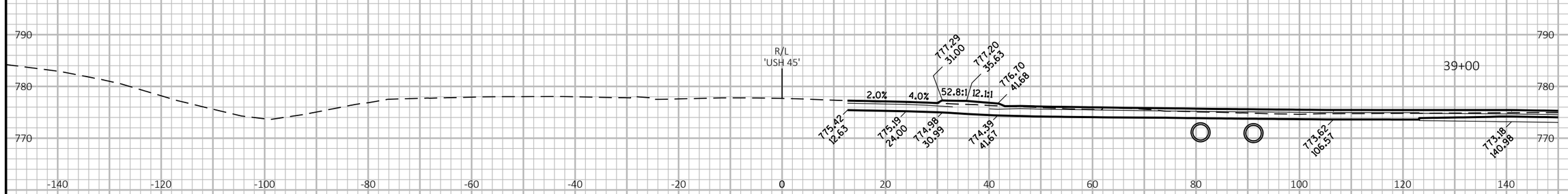
PRE_405

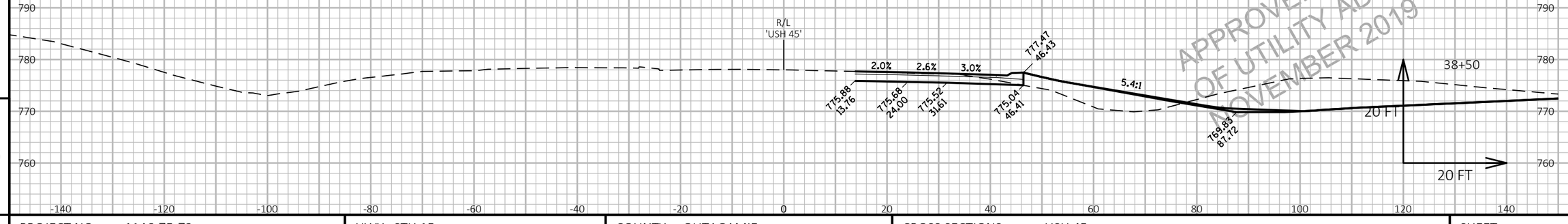
FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090401_XS_(USH45).DWG
LAYOUT NAME - 090404_xs(USH)

PLOT DATE : 11/12/2019 11:26 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49







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NOVEMBER 2019

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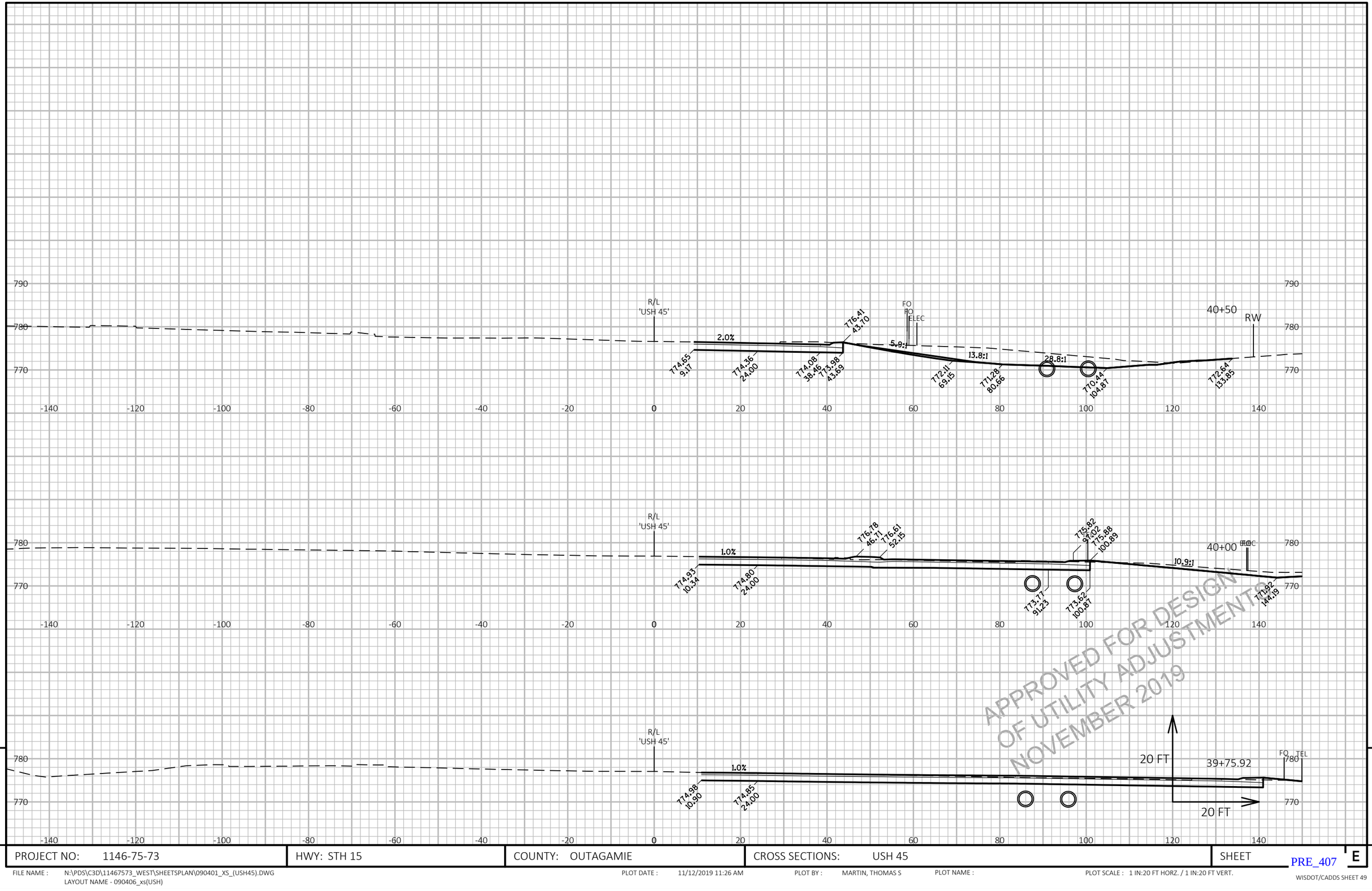
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: USH 45	SHEET E

PRE_406

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090401_XS_(USH45).DWG
LAYOUT NAME - 090405_xs(USH)

PLOT DATE : 11/12/2019 11:26 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



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OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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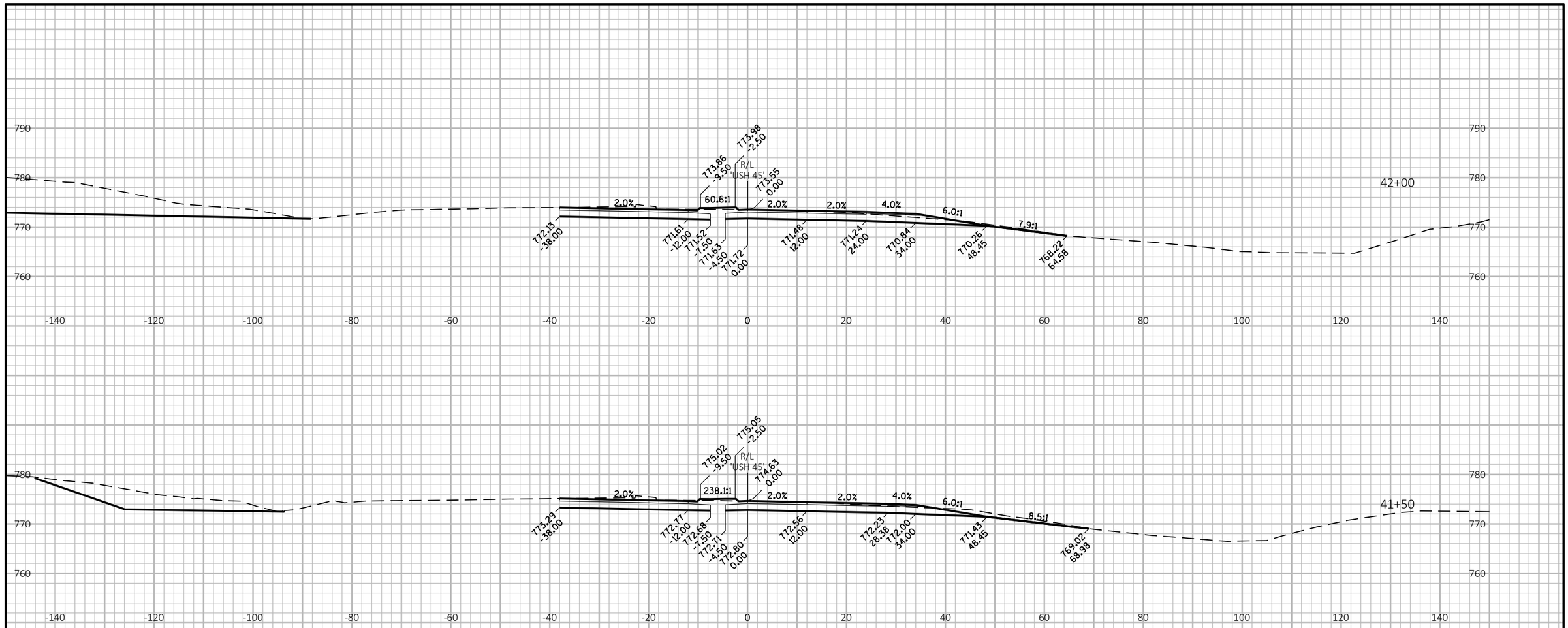
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: USH 45	SHEET

PRE_407

E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090401_XS_(USH45).DWG
LAYOUT NAME - 090406_xs(USH)
PLOT DATE : 11/12/2019 11:26 AM
PLOT BY : MARTIN, THOMAS S
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.
WISDOT/CADDS SHEET 49



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OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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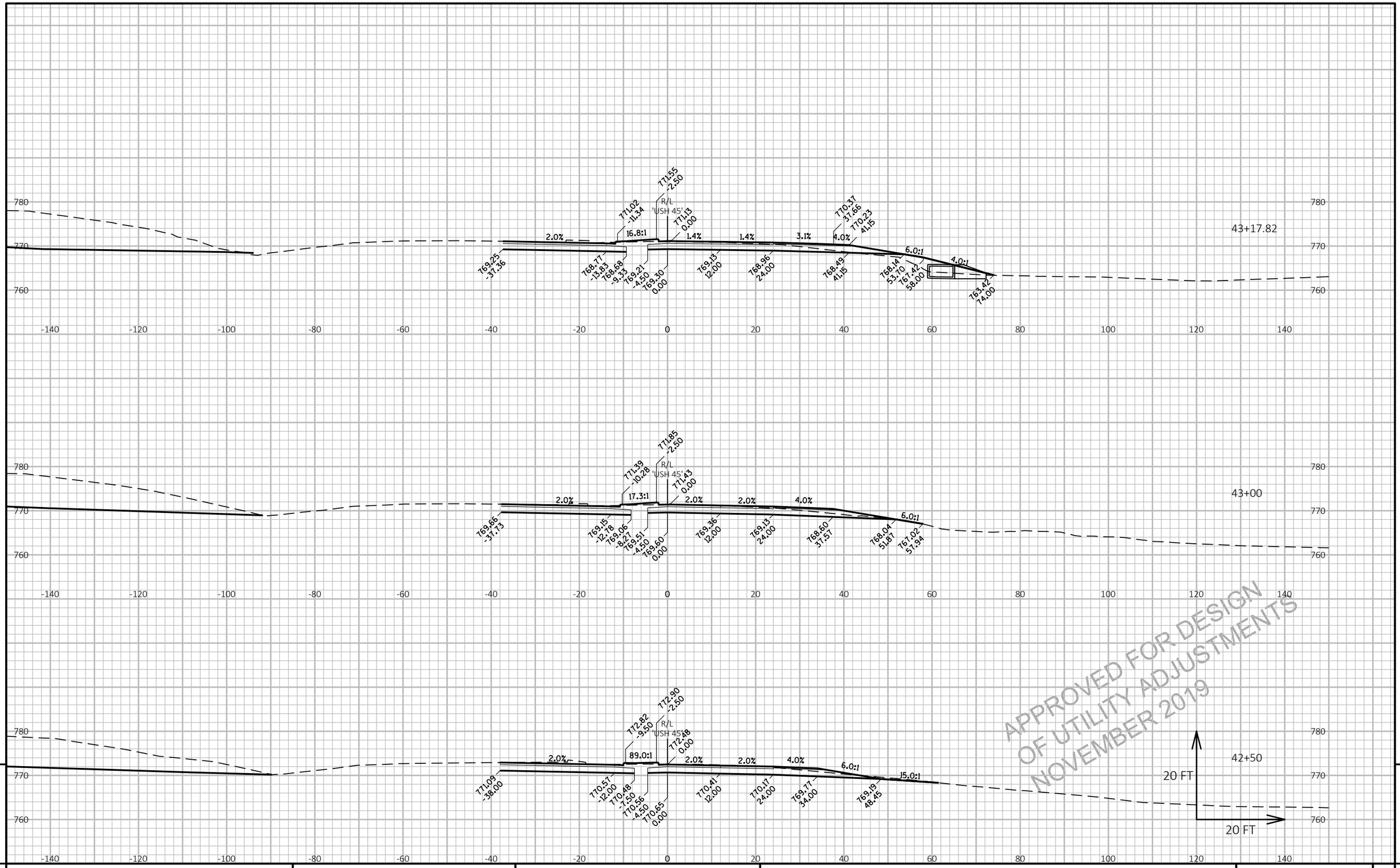
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: USH 45	SHEET E

PRE_408

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090401_XS_(USH45).DWG
LAYOUT NAME - 090407_xs(USH)

PLOT DATE : 11/12/2019 11:26 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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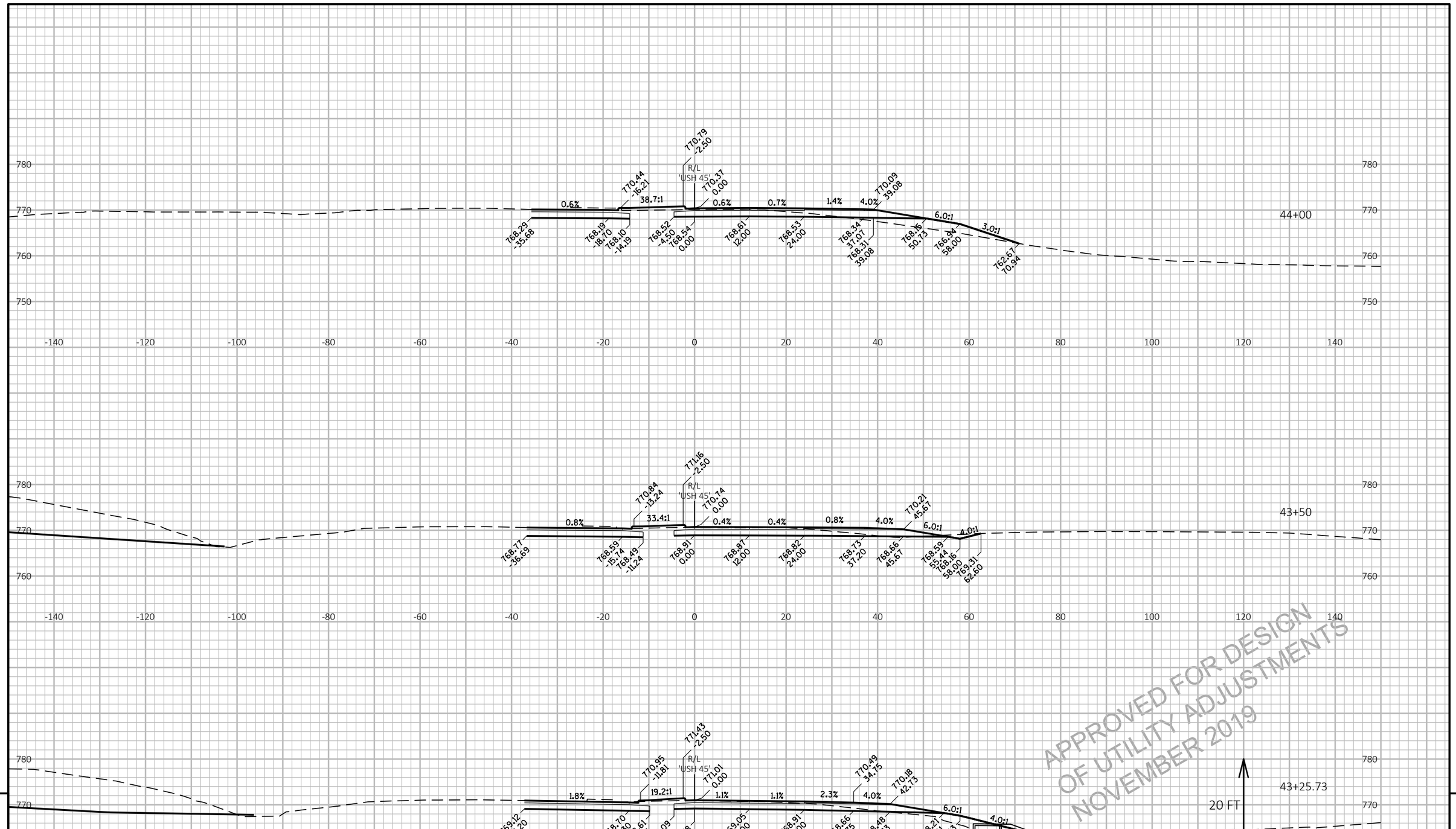
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: USH 45	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090401_XS_(USH45).DWG
LAYOUT NAME - 090408_xs(USH)

PLOT DATE : 11/12/2019 11:26 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_409

WISDOT/CADDS SHEET 49



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OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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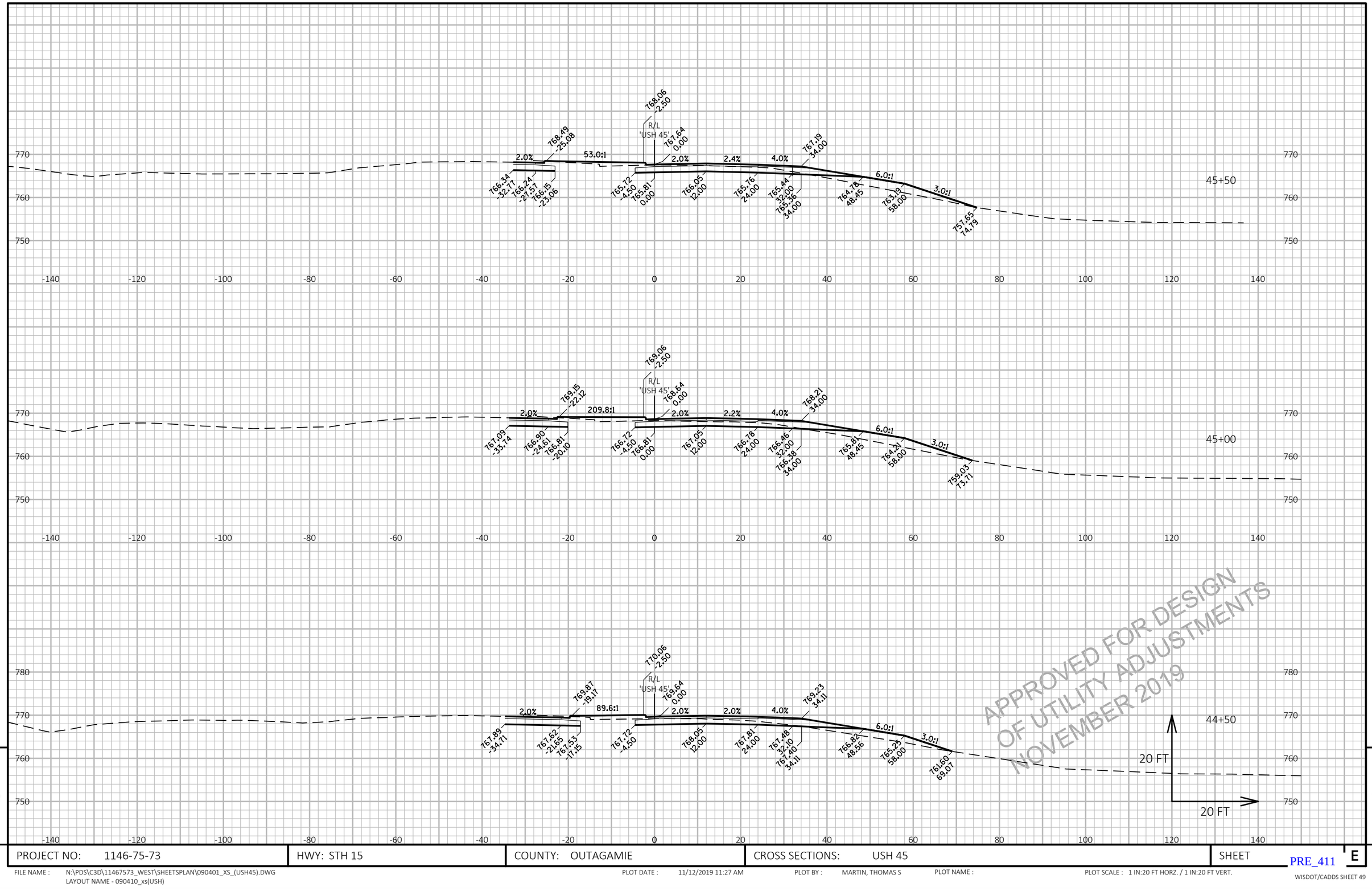
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: USH 45	SHEET E

PRE_410

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090401_XS_(USH45).DWG
LAYOUT NAME - 090409_xs(USH)

PLOT DATE : 11/12/2019 11:27 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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NOVEMBER 2019

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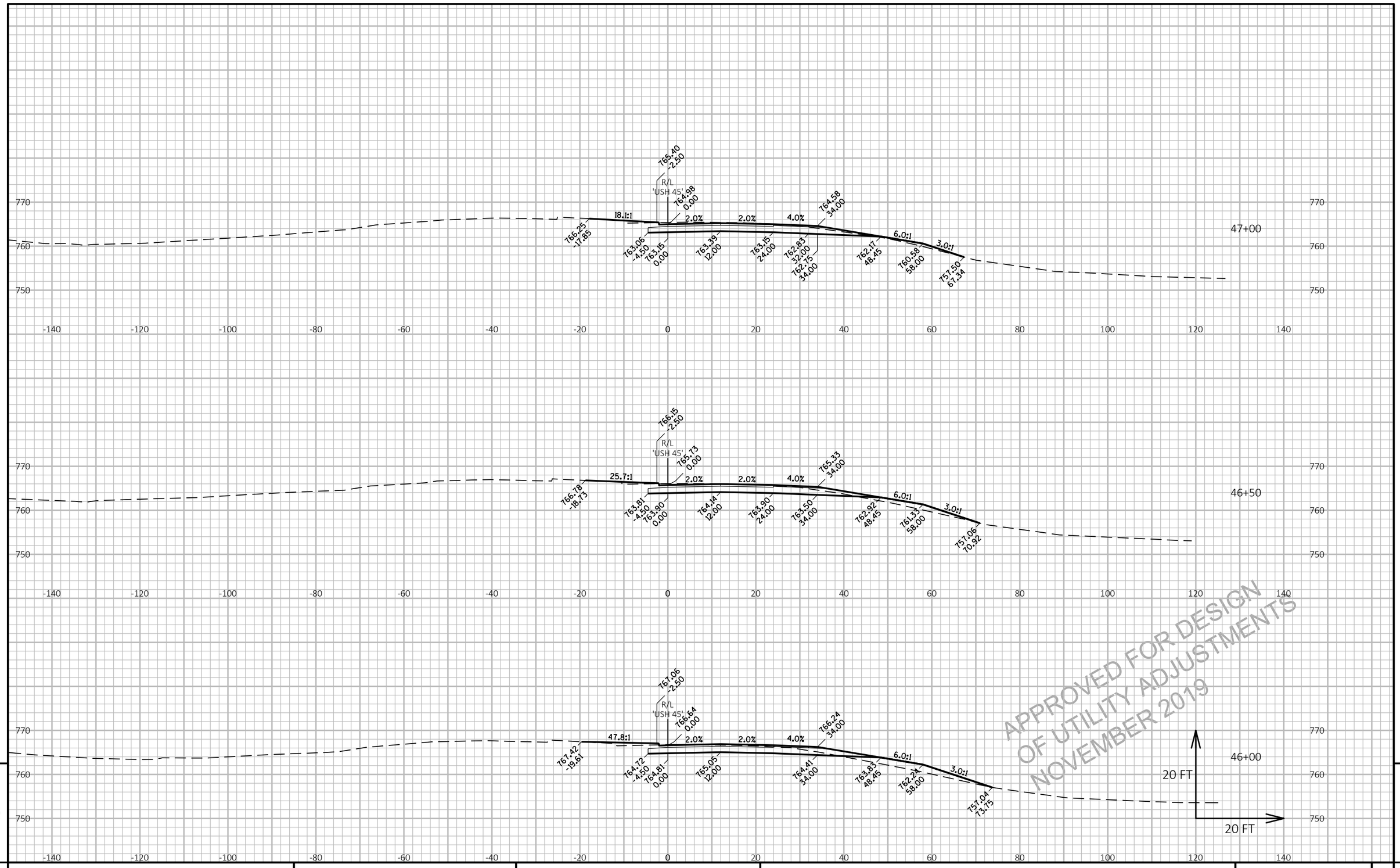
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: USH 45	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090401_XS_(USH45).DWG
LAYOUT NAME - 090410_xs(USH)

PLOT DATE : 11/12/2019 11:27 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_411



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NOVEMBER 2019

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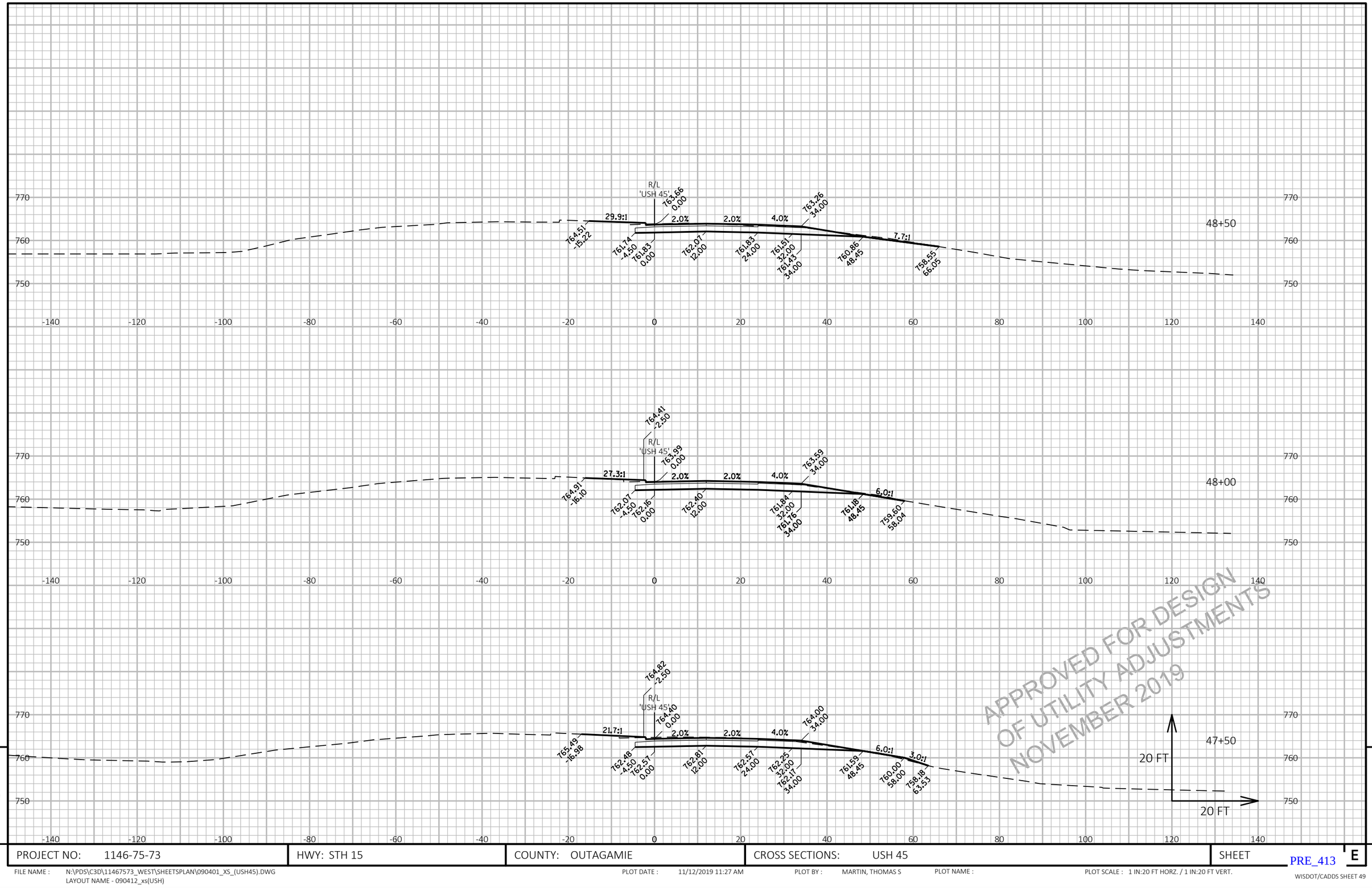
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: USH 45	SHEET

PRE_412 E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090401_XS_(USH45).DWG
LAYOUT NAME - 090411_xs(USH)

PLOT DATE : 11/12/2019 11:27 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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NOVEMBER 2019

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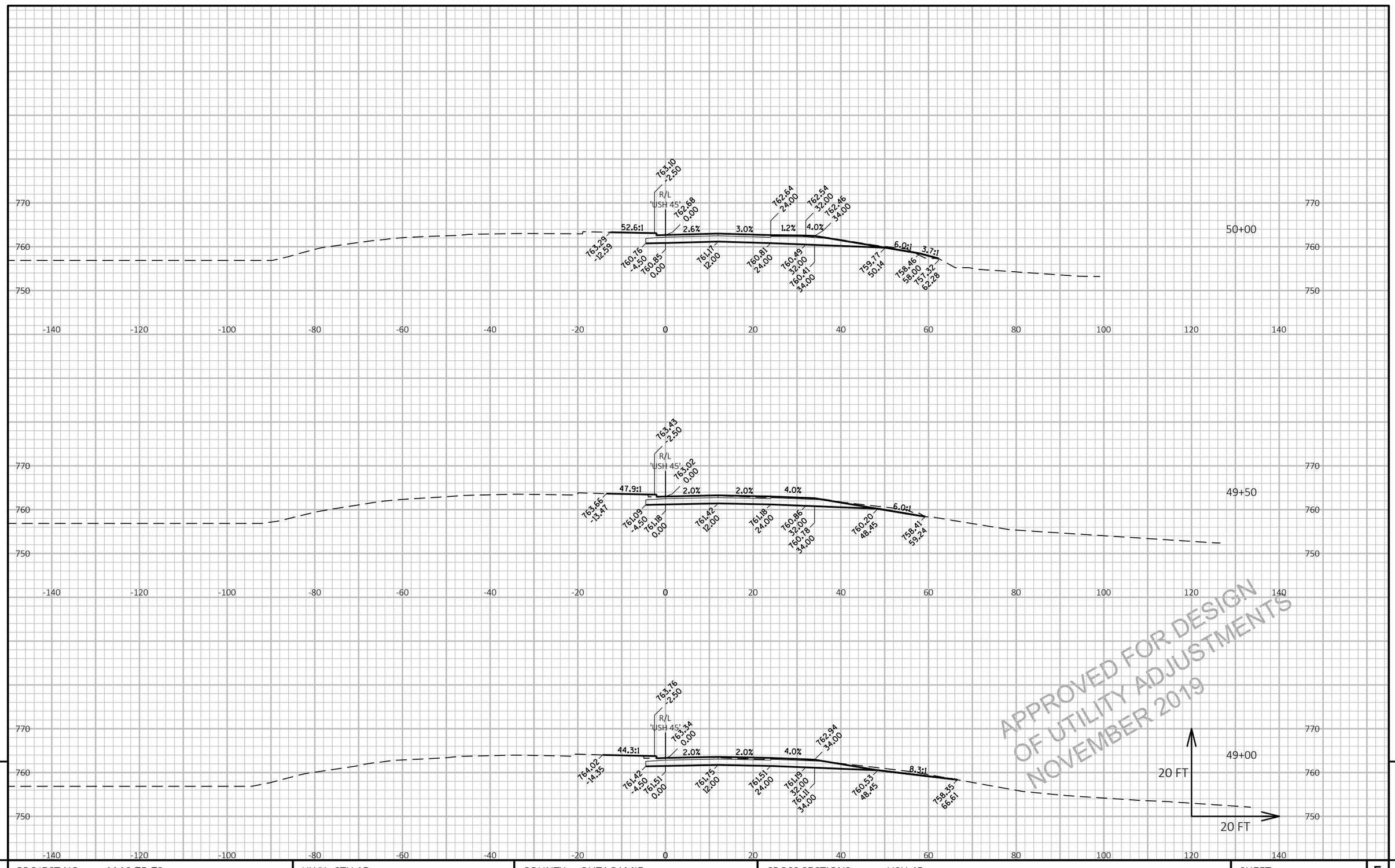
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: USH 45	SHEET E

PRE_413

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090401_XS_(USH45).DWG
LAYOUT NAME - 090412_xs(USH)

PLOT DATE : 11/12/2019 11:27 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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NOVEMBER 2019

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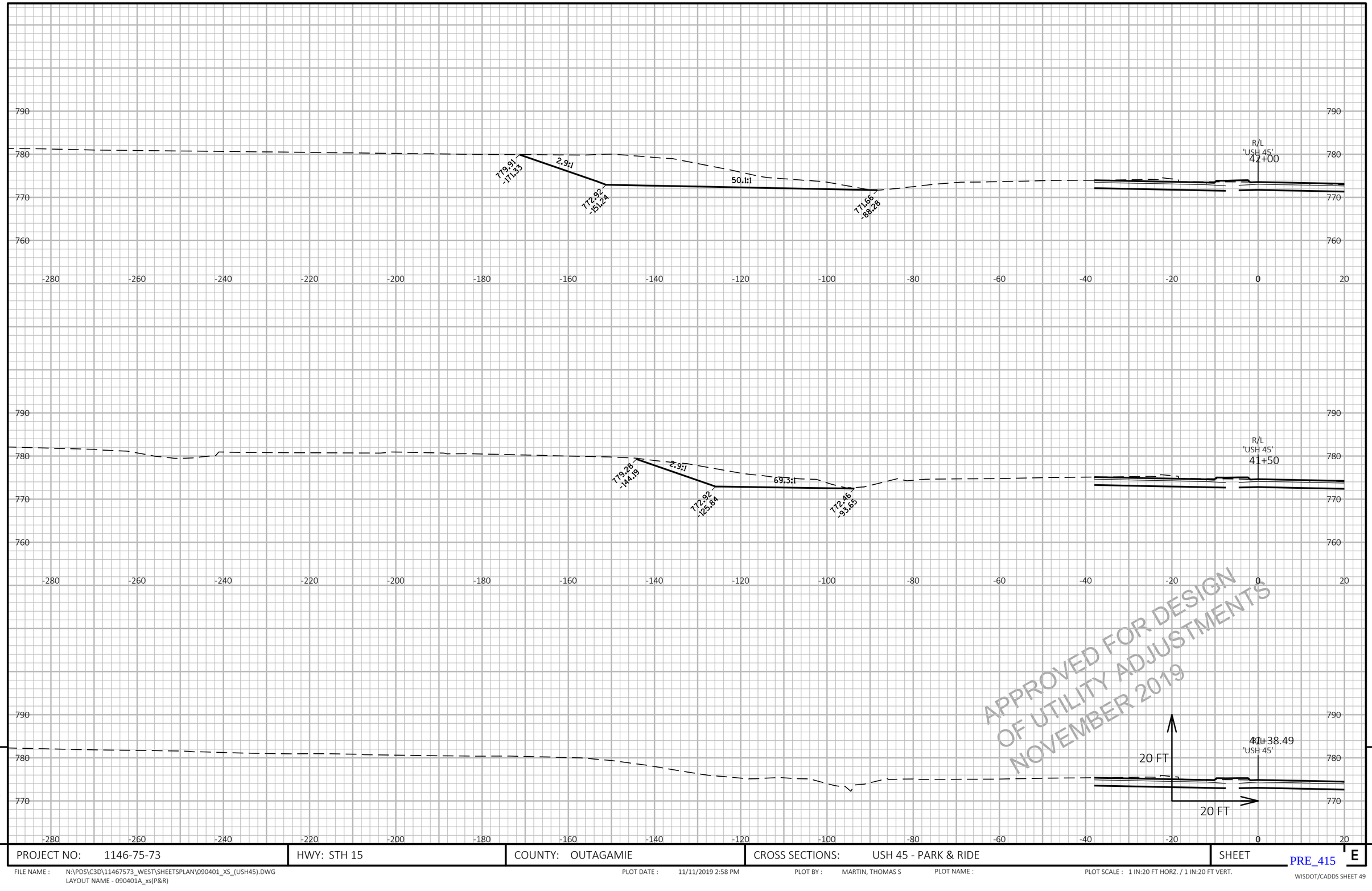
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: USH 45	SHEET E

PRE_414

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090401_XS_(USH45).DWG
LAYOUT NAME - 090413_xs(USH)

PLOT DATE : 11/12/2019 11:28 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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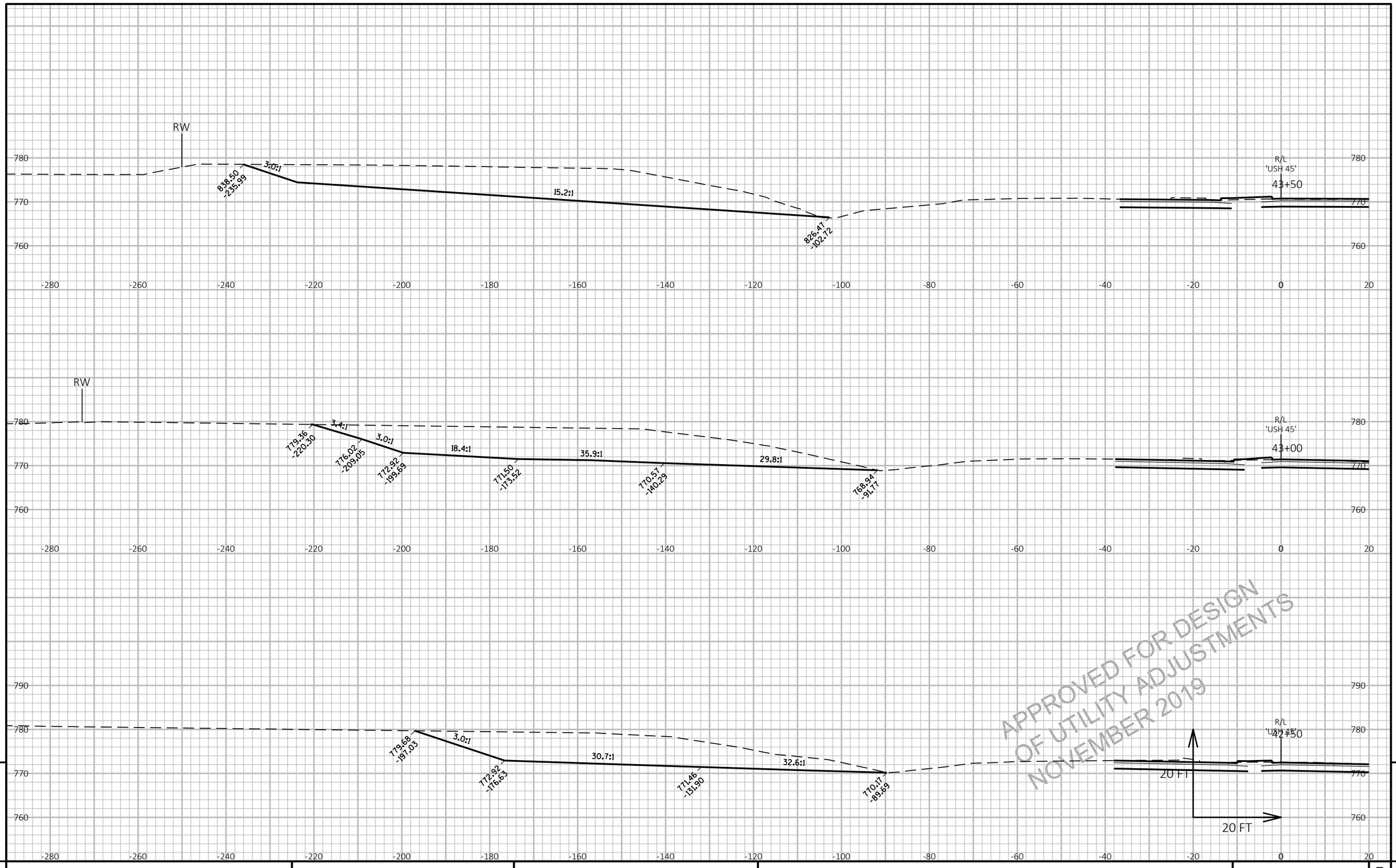
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: USH 45 - PARK & RIDE	SHEET E

PRE_415

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090401_XS_(USH45).DWG
LAYOUT NAME - 090401A_xs(P&R)

PLOT DATE : 11/11/2019 2:58 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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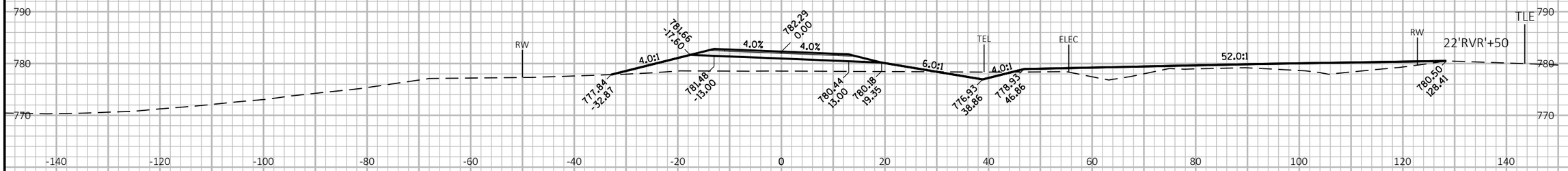
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: USH 45 - PARK & RAMP	SHEET E

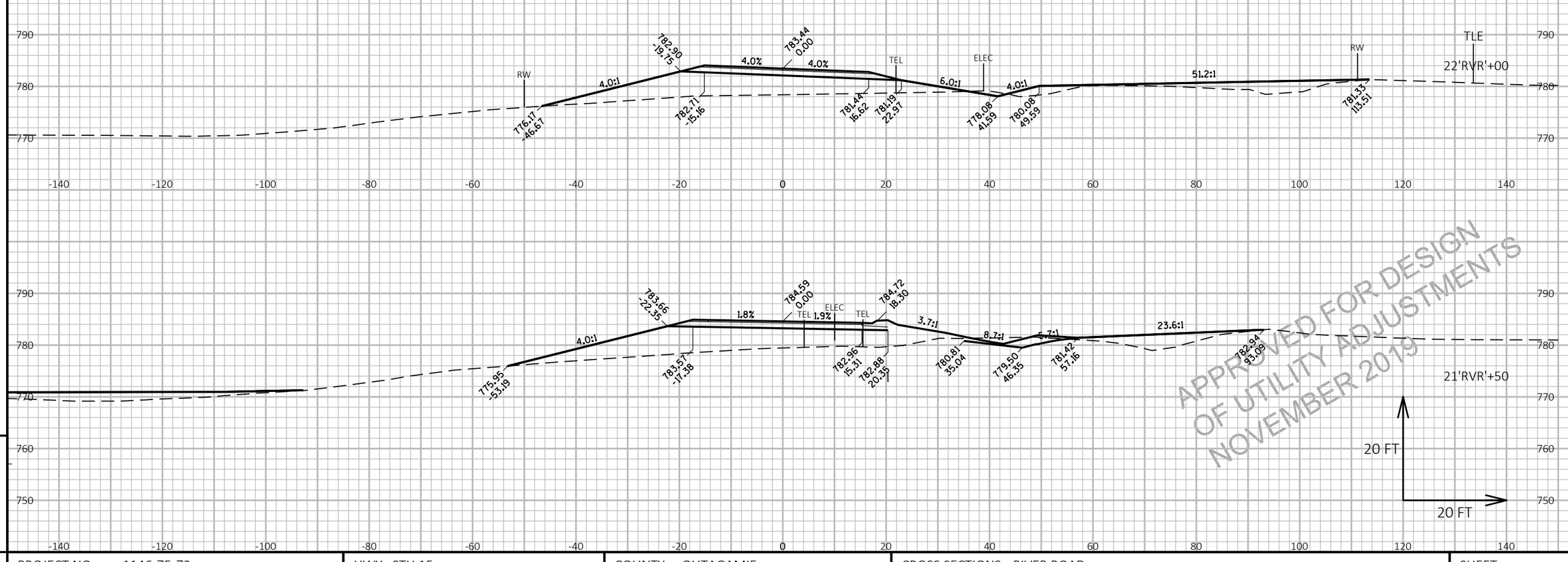
PRE_416

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090401_XS_(USH45).DWG
LAYOUT NAME - 090402A_xs(P&R)

PLOT DATE : 11/11/2019 2:58 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49





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NOVEMBER 2019

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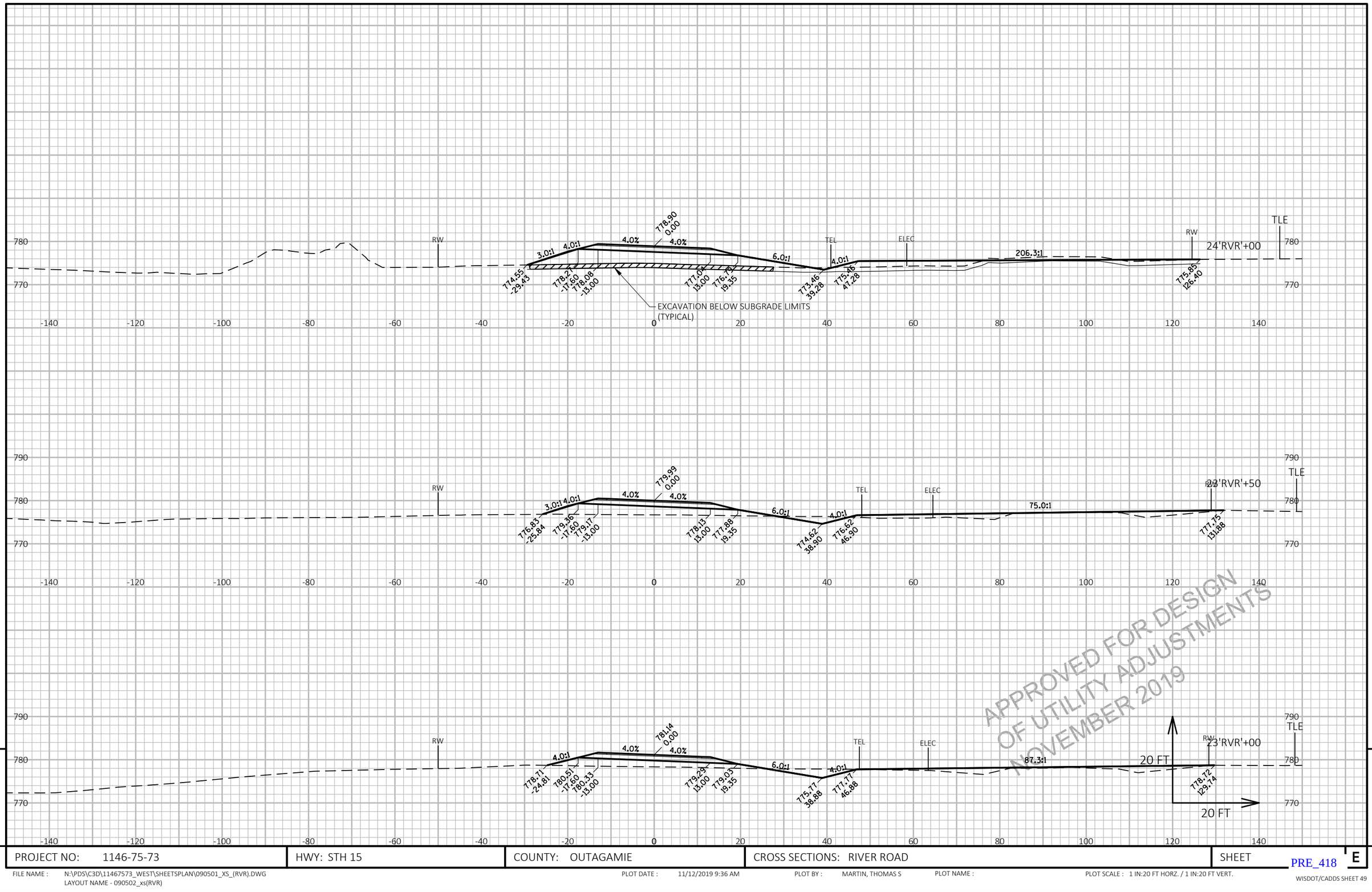
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: RIVER ROAD	SHEET E

PRE_417

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090501_XS_(RVR).DWG
LAYOUT NAME - 090501_xs(RVR)

PLOT DATE : 11/12/2019 9:35 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



APPROVED FOR DESIGN
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NOVEMBER 2019

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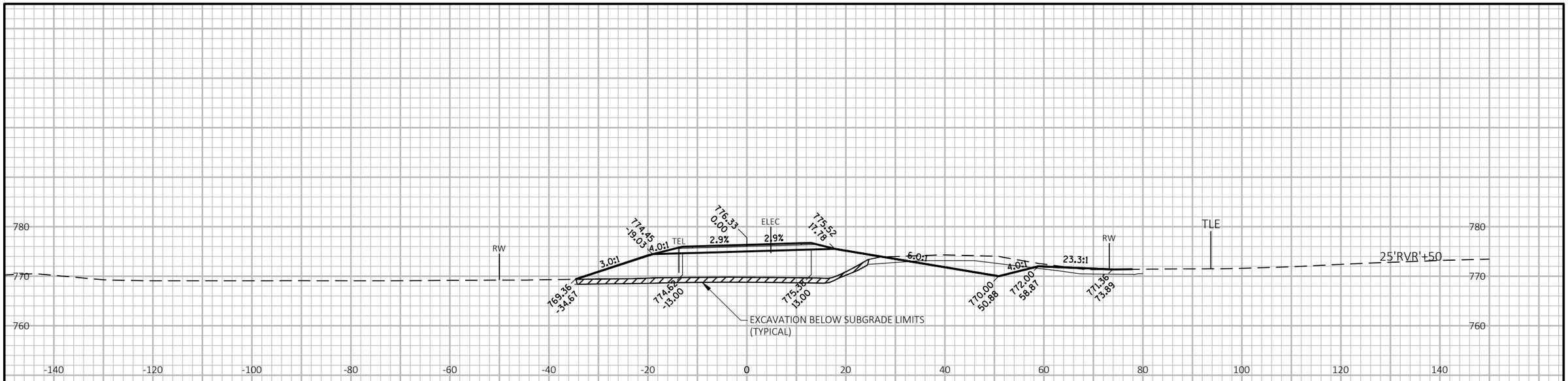
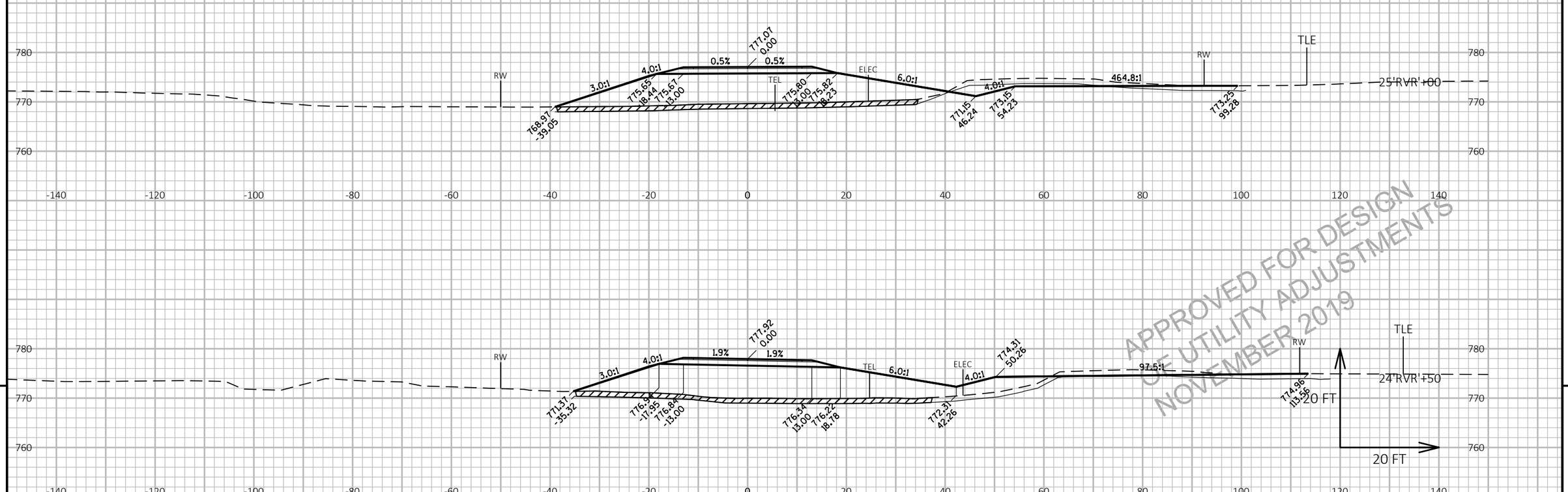
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: RIVER ROAD	SHEET E

PRE_418

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090501_XS_(RVR).DWG
LAYOUT NAME - 090502_xs(RVR)

PLOT DATE : 11/12/2019 9:36 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.





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OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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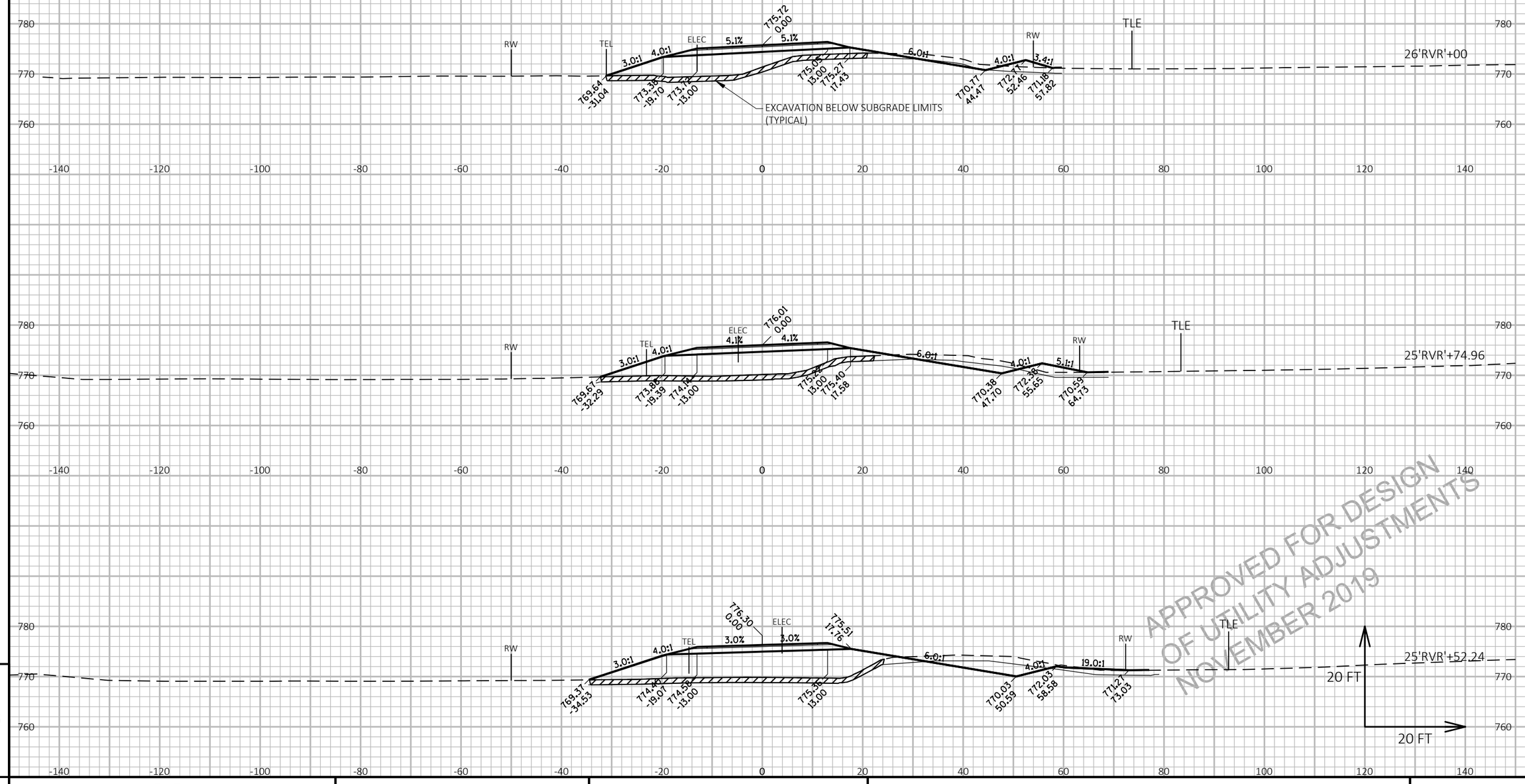
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: RIVER ROAD	SHEET E

PRE_419

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090501_XS_(RVR).DWG
LAYOUT NAME - 090503_xs(RVR)

PLOT DATE : 11/12/2019 9:36 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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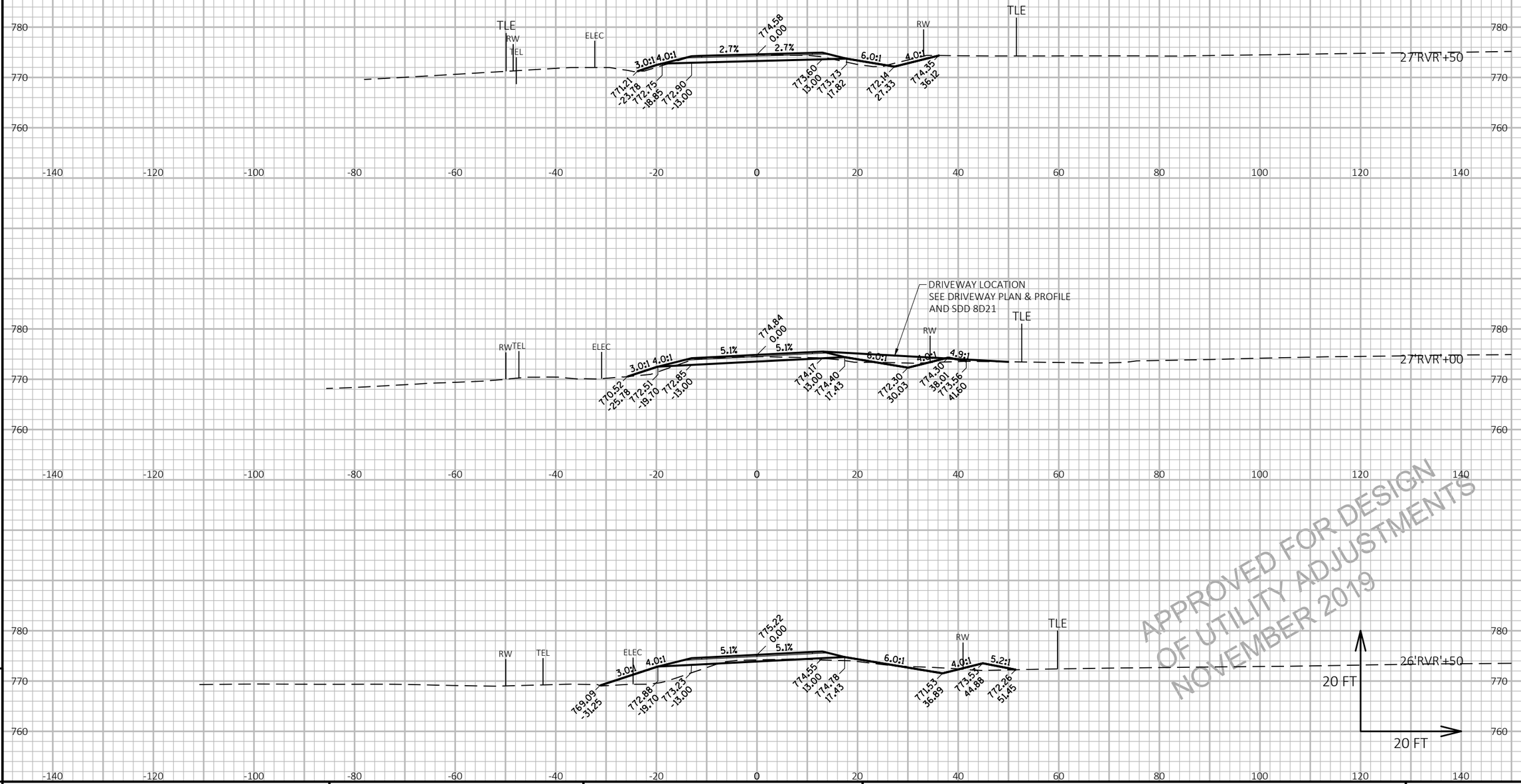
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: RIVER ROAD	SHEET	E

PRE_420

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090501_XS_(RVR).DWG
LAYOUT NAME - 090504_xs(RVR)

PLOT DATE : 11/12/2019 9:36 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



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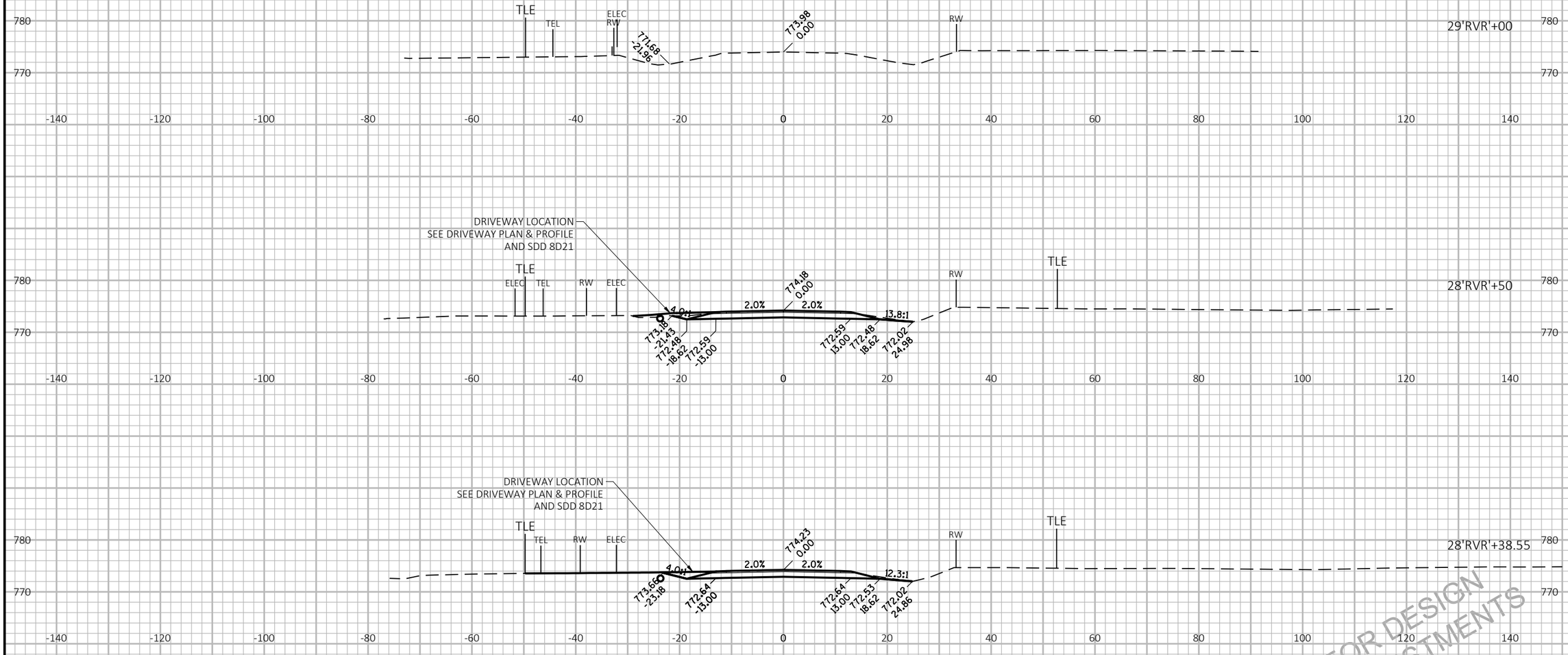
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: RIVER ROAD	SHEET E

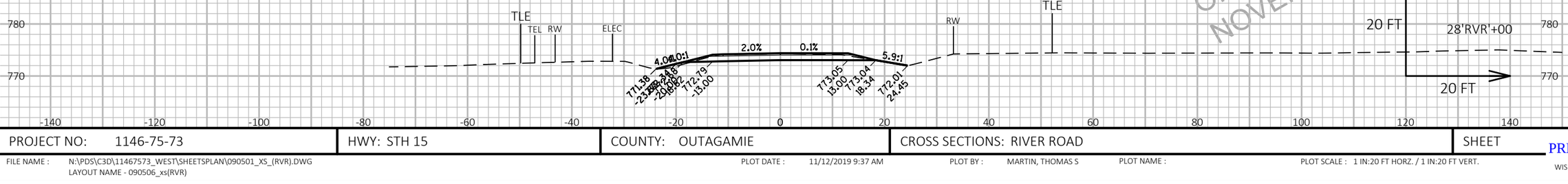
PRE_421

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090501_XS_(RVR).DWG
LAYOUT NAME - 090505_xs(RVR)

PLOT DATE : 11/12/2019 9:36 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49





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NOVEMBER 2019

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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: RIVER ROAD	SHEET E

PRE_422

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090501_XS_(RVR).DWG
LAYOUT NAME - 090506_xs(RVR)

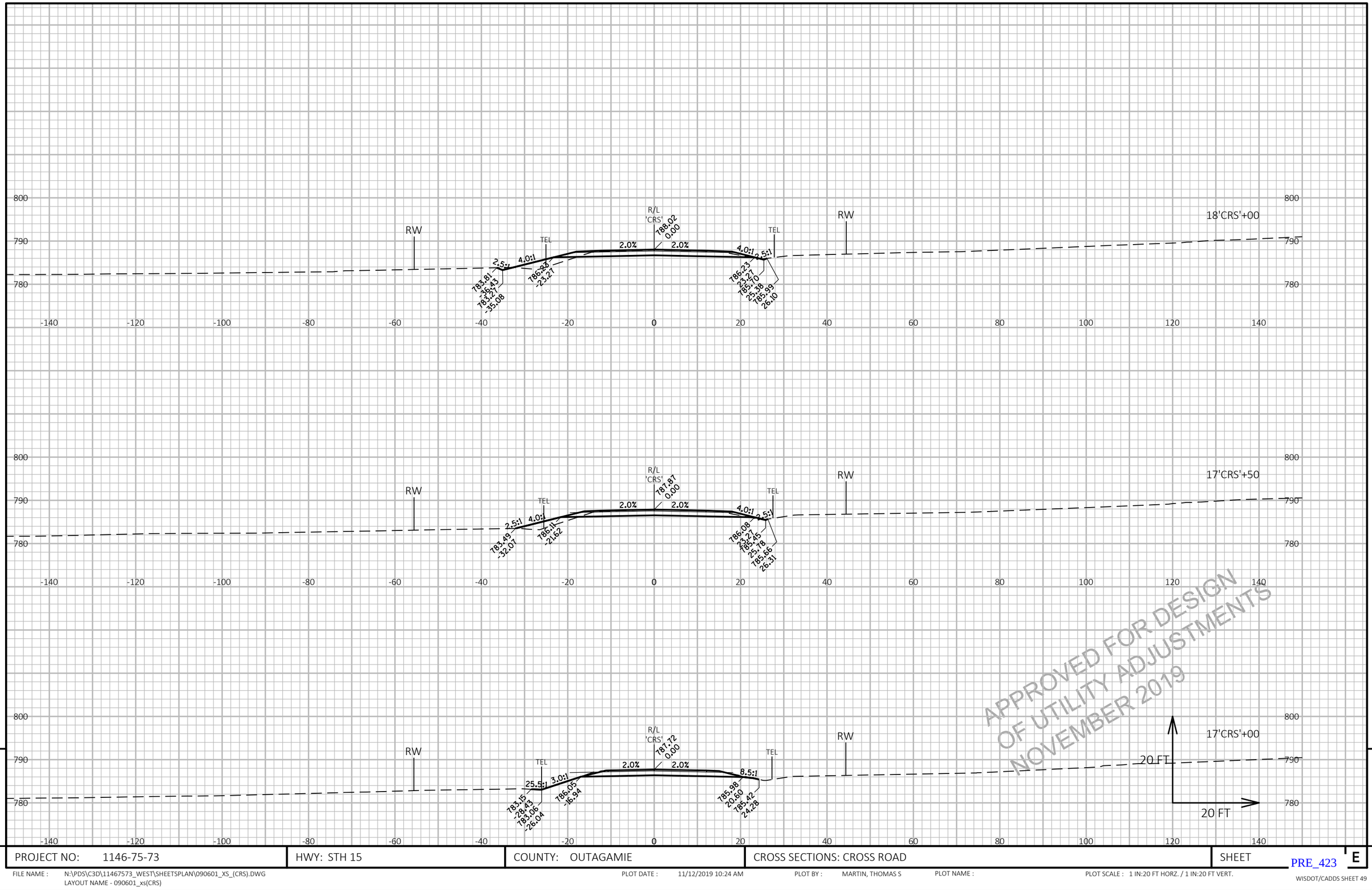
PLOT DATE : 11/12/2019 9:37 AM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: CROSS ROAD	SHEET	E

PRE_423

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090601_XS_(CRS).DWG
LAYOUT NAME - 090601_xs(CRS)

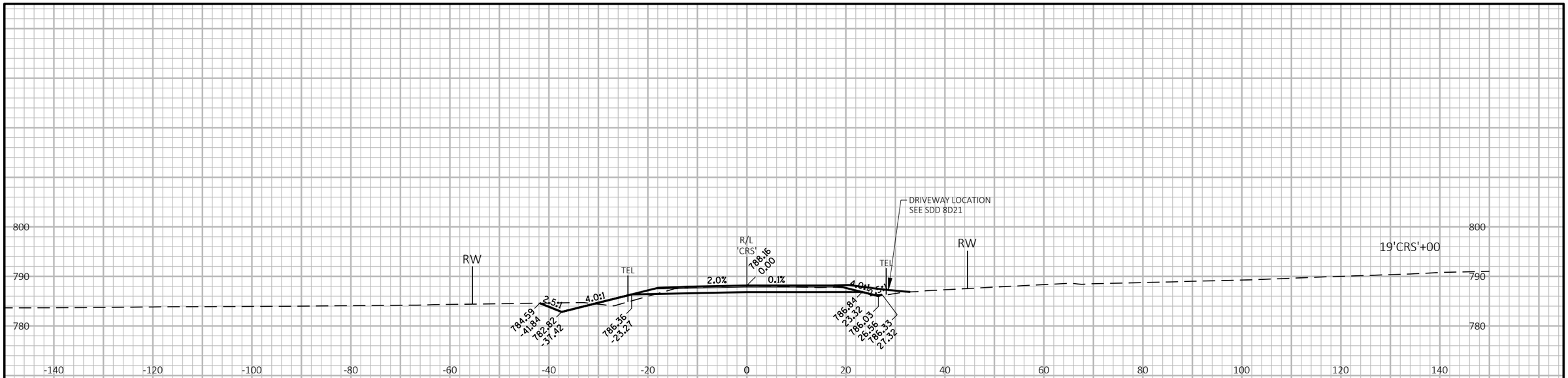
PLOT DATE : 11/12/2019 10:24 AM

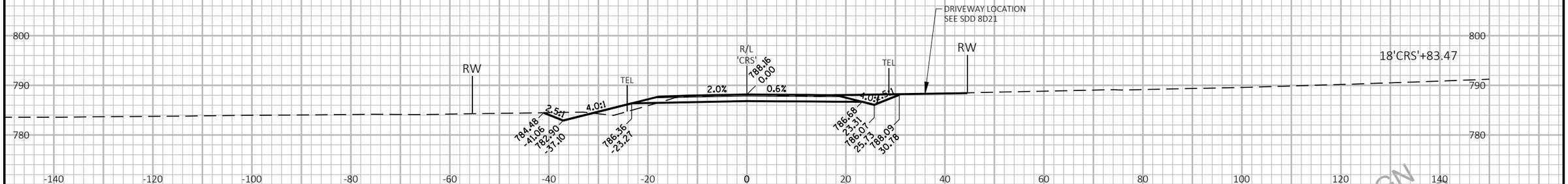
PLOT BY : MARTIN, THOMAS S

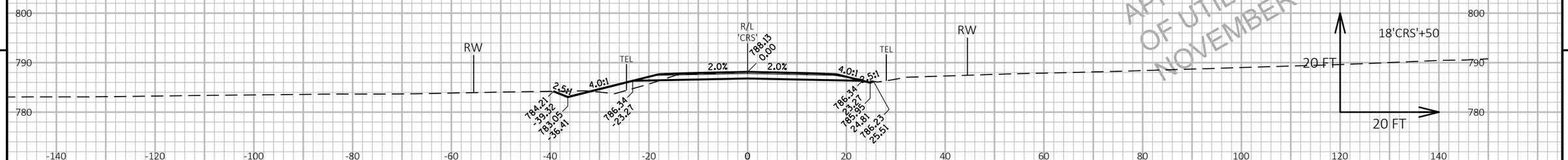
PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49







APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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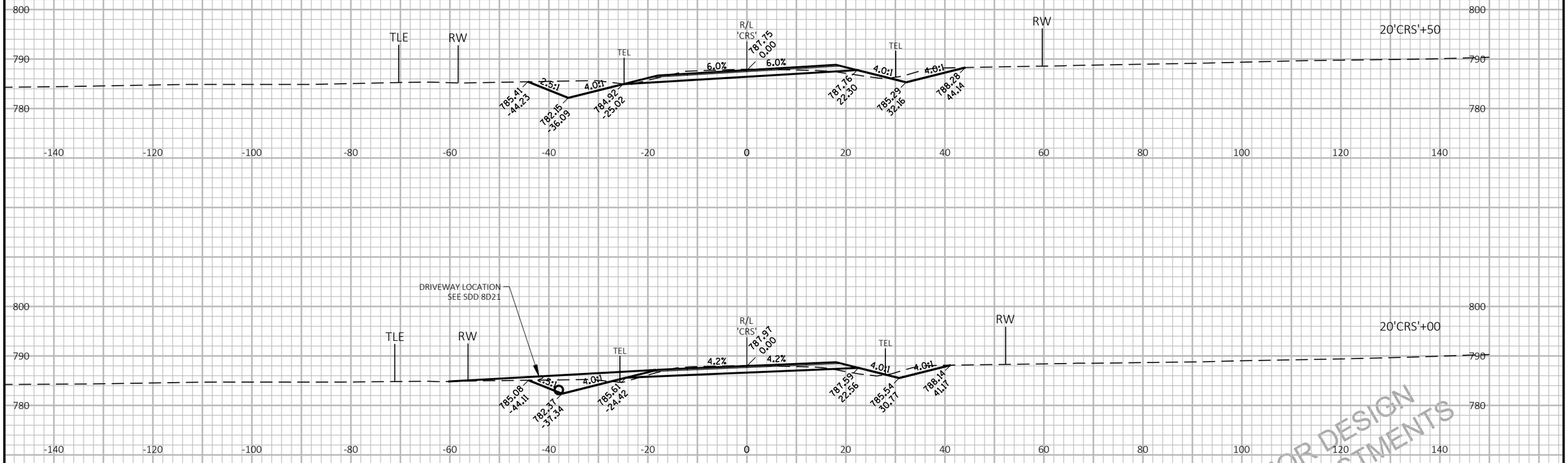
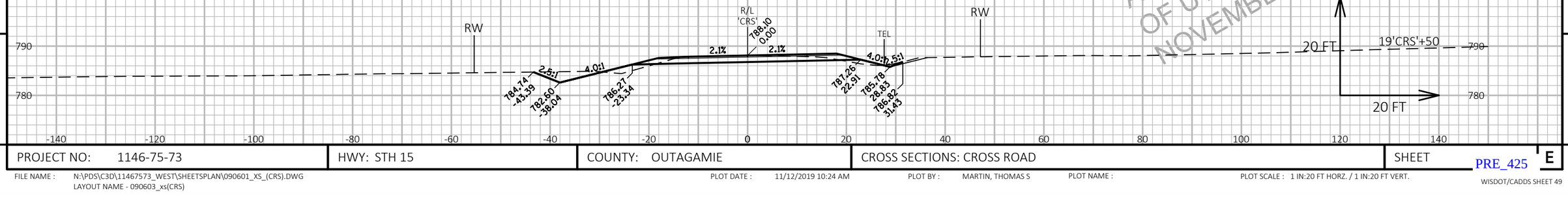
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: CROSS ROAD	SHEET E

PRE_424

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090601_XS_(CRS).DWG
LAYOUT NAME - 090602_xs(CRS)

PLOT DATE : 11/12/2019 10:24 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.





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NOVEMBER 2019

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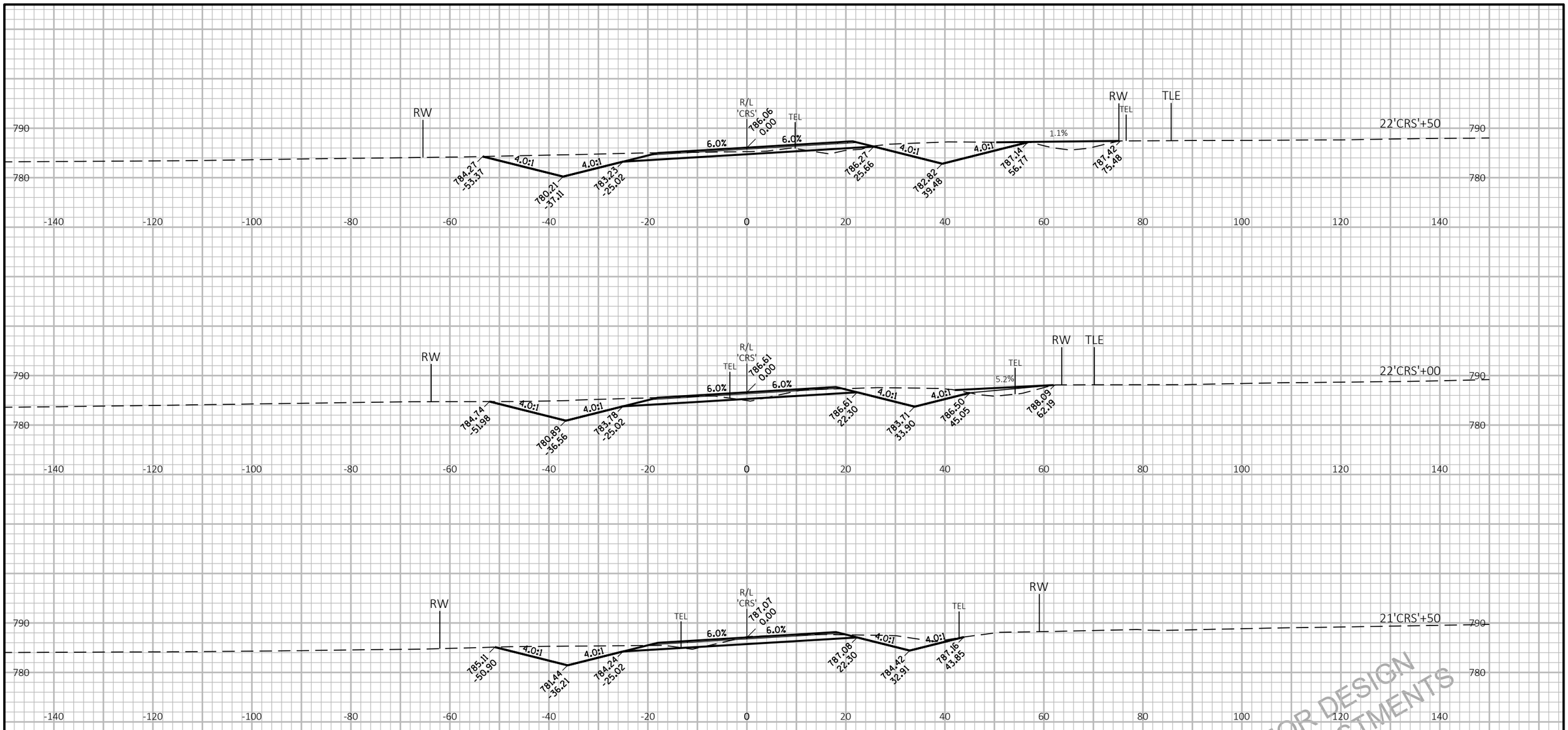
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: CROSS ROAD	SHEET E

PRE_425

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090601_XS_(CRS).DWG
LAYOUT NAME - 090603_xs(CRS)

PLOT DATE : 11/12/2019 10:24 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



APPROVED FOR DESIGN
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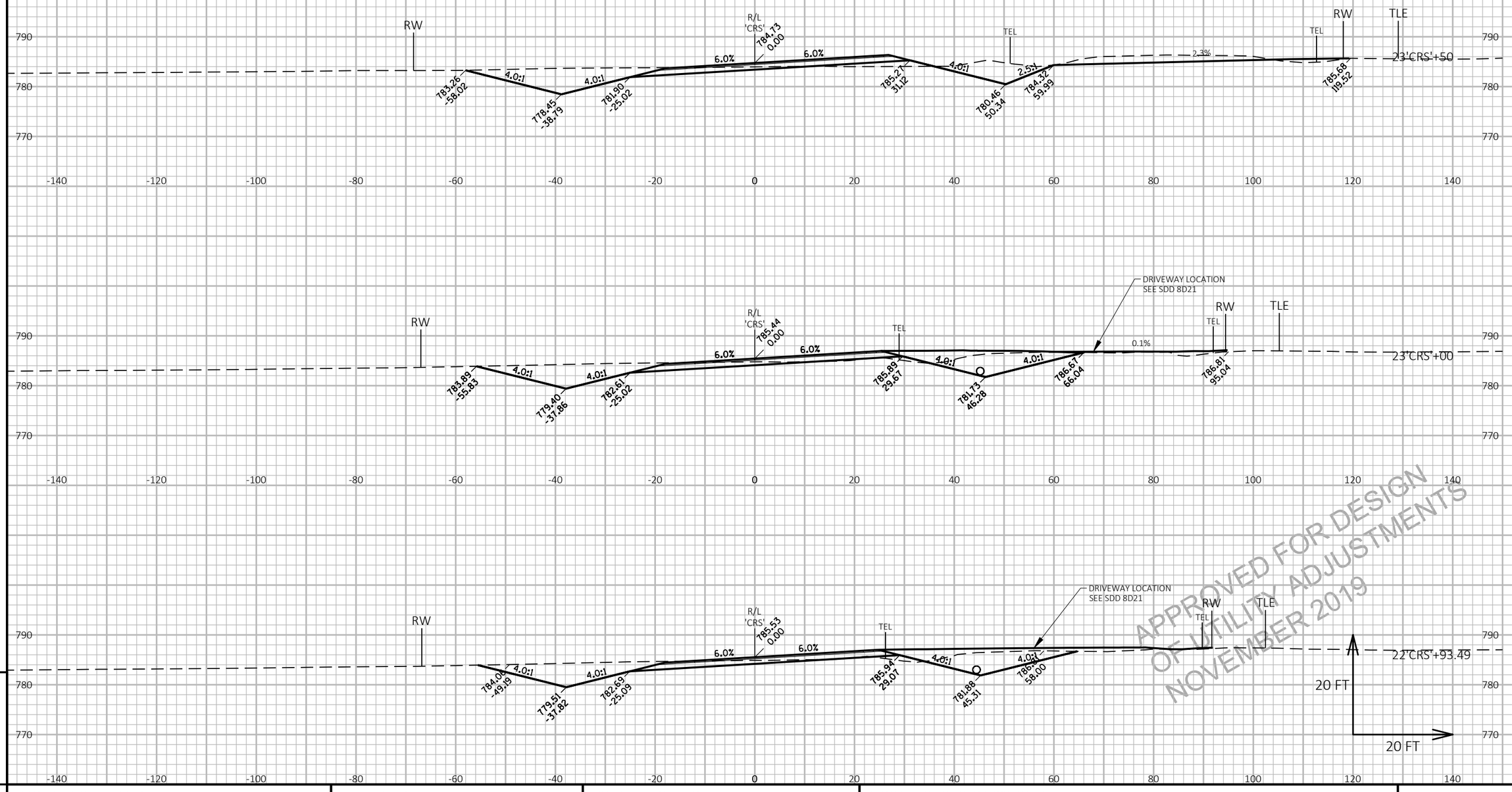
NOVEMBER 2019



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NOVEMBER 2019

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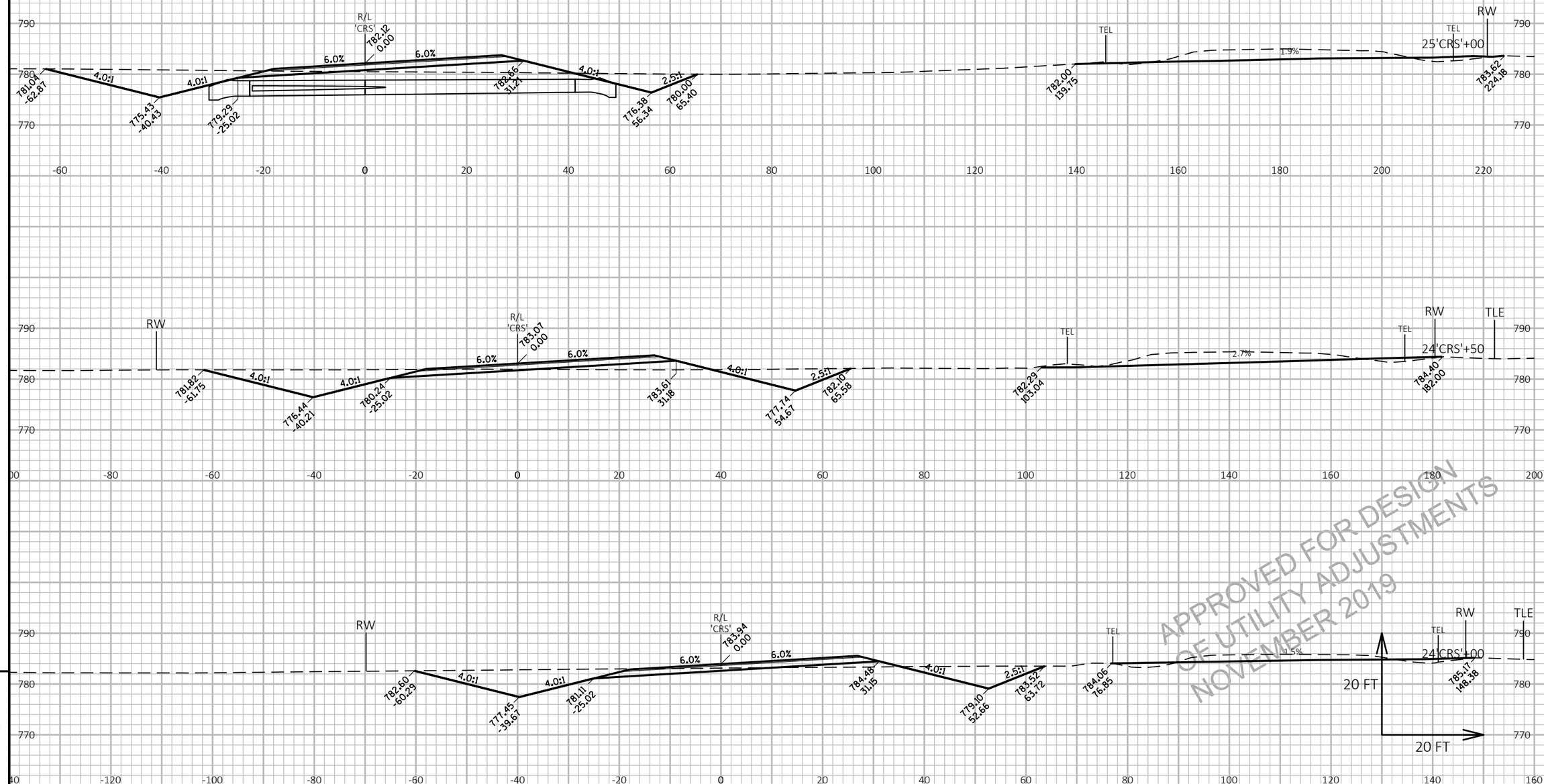
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: CROSS ROAD	SHEET E

PRE_427

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090601_XS_(CRS).DWG
LAYOUT NAME - 090605_xs(CRS)

PLOT DATE : 11/12/2019 10:24 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



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OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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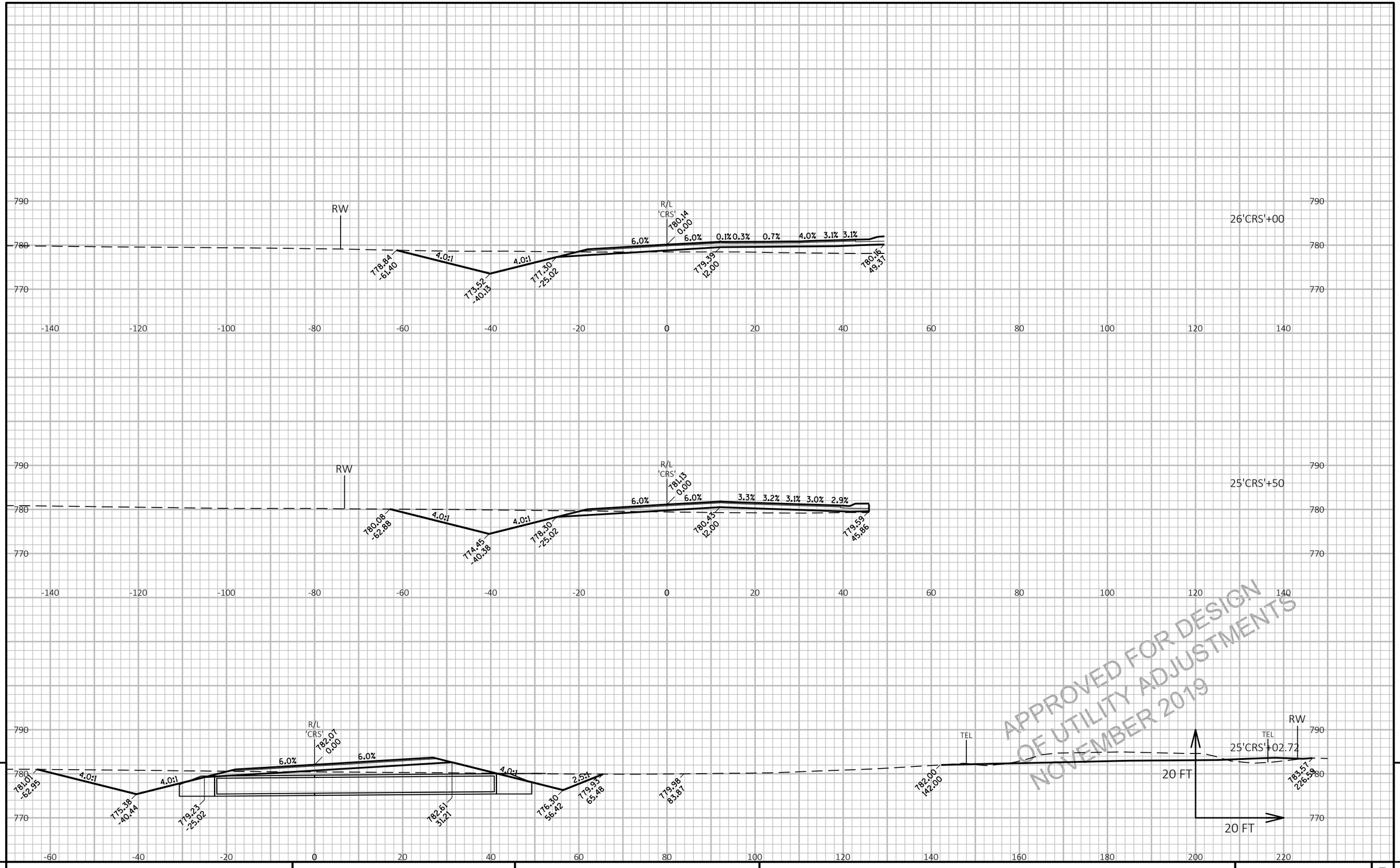
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: CROSS ROAD	SHEET E

PRE_428

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090601_XS_(CRS).DWG
LAYOUT NAME - 090606_xs(CRS)

PLOT DATE : 11/12/2019 10:24 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

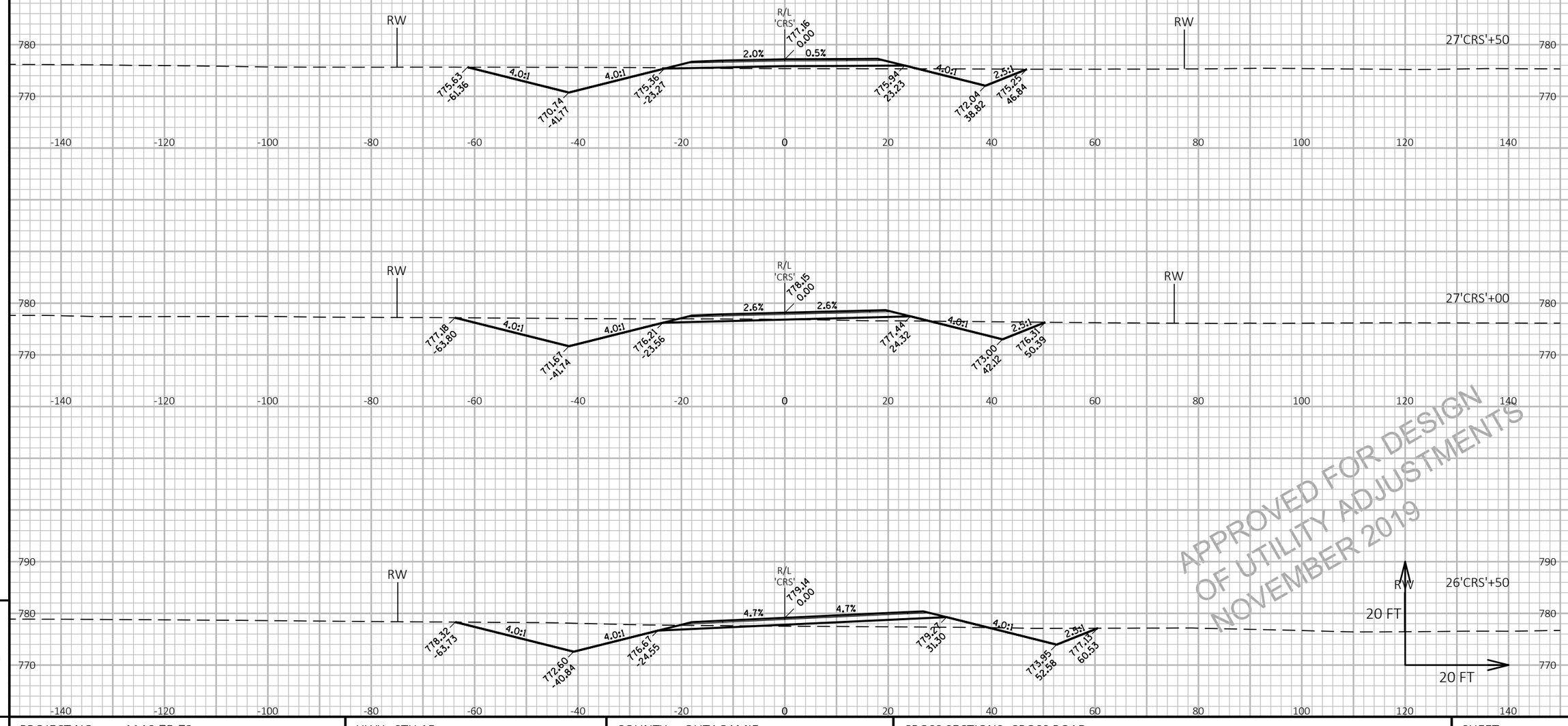


PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: CROSS ROAD	SHEET
				PRE_429 E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090601_XS_(CRS).DWG
LAYOUT NAME - 090607_xs(CRS)

PLOT DATE : 11/12/2019 10:25 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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NOVEMBER 2019

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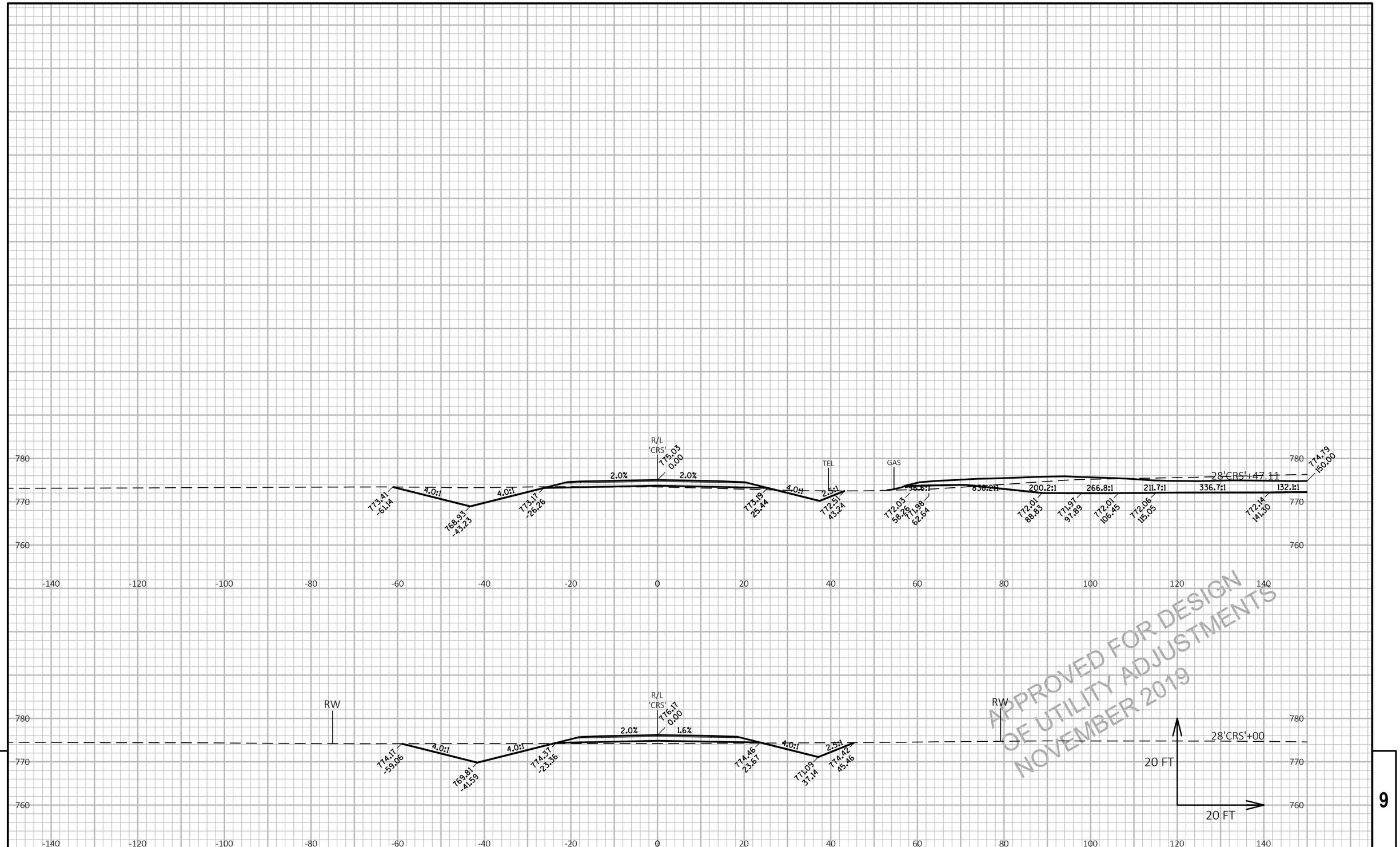
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: CROSS ROAD	SHEET E

PRE_430

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090601_XS_(CRS).DWG
LAYOUT NAME - 090608_xs(CRS)

PLOT DATE : 11/12/2019 10:25 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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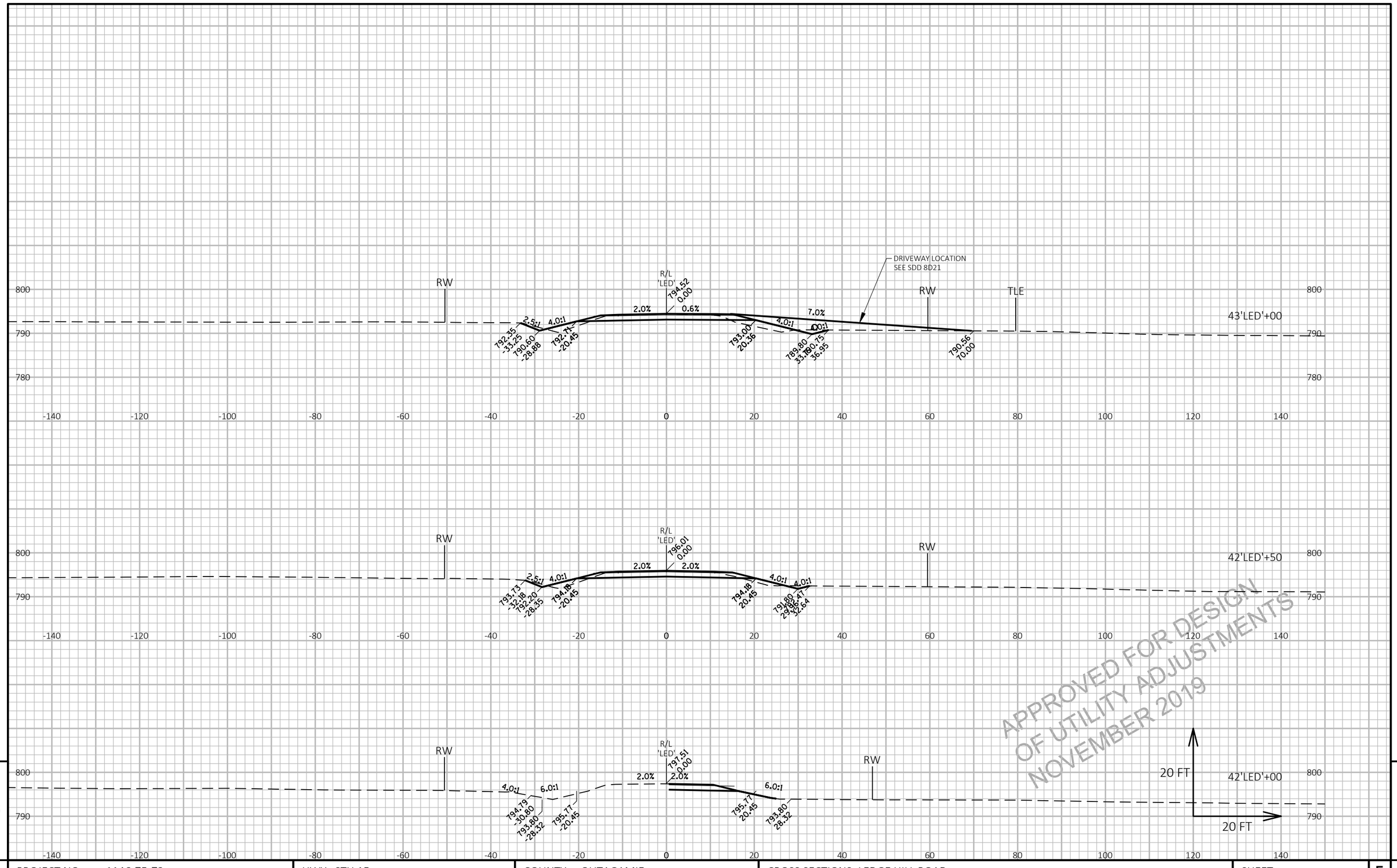
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: CROSS ROAD	SHEET E

PRE_431

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090601_XS_(CRS).DWG
LAYOUT NAME - 090609_xs(CRS)

PLOT DATE : 11/12/2019 10:25 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: LEDGE HILL ROAD	SHEET

PRE_432

E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090701_XS_(LED).DWG
LAYOUT NAME - 090701_xs(LED)

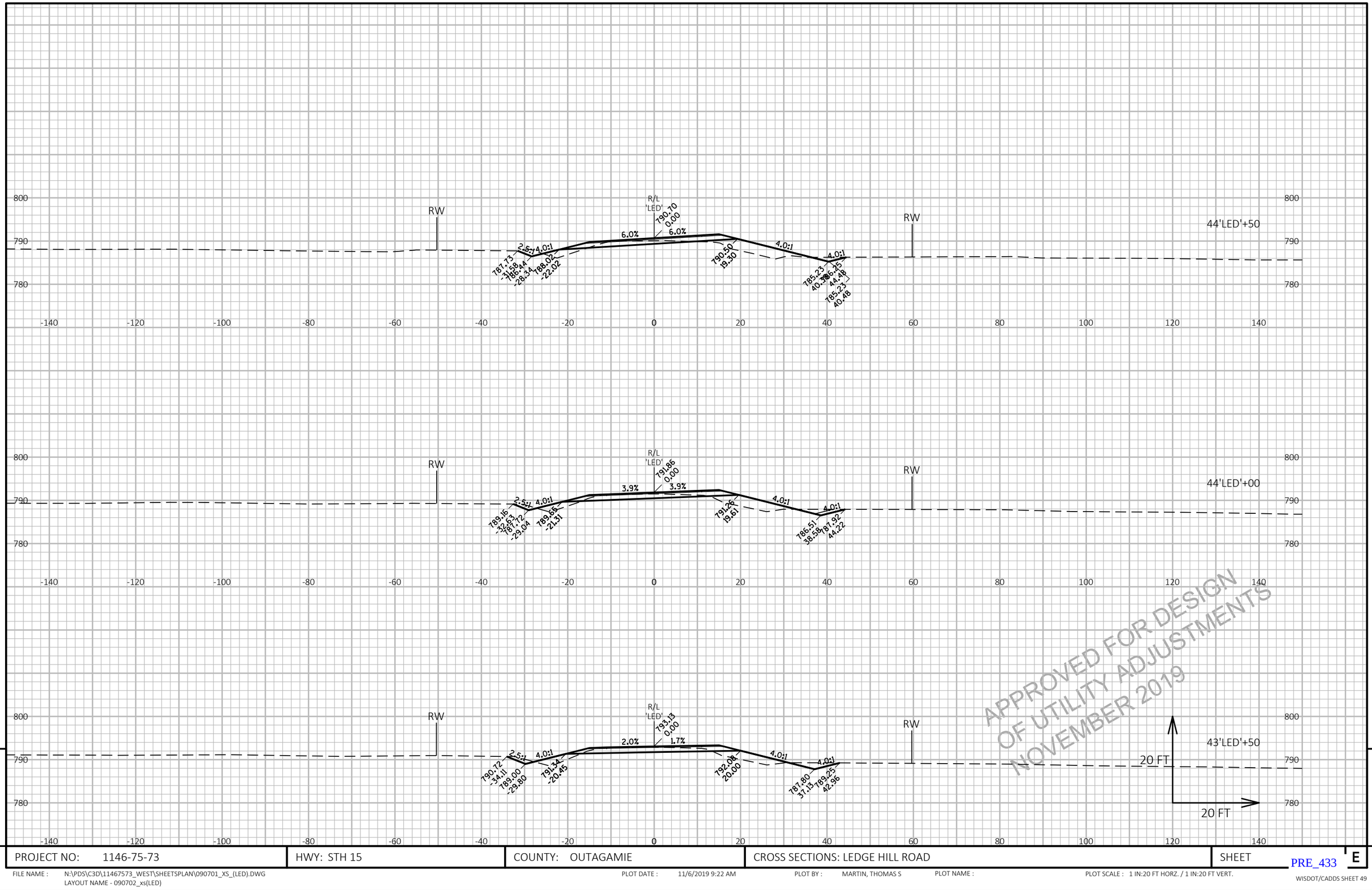
PLOT DATE : 11/6/2019 9:22 AM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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NOVEMBER 2019

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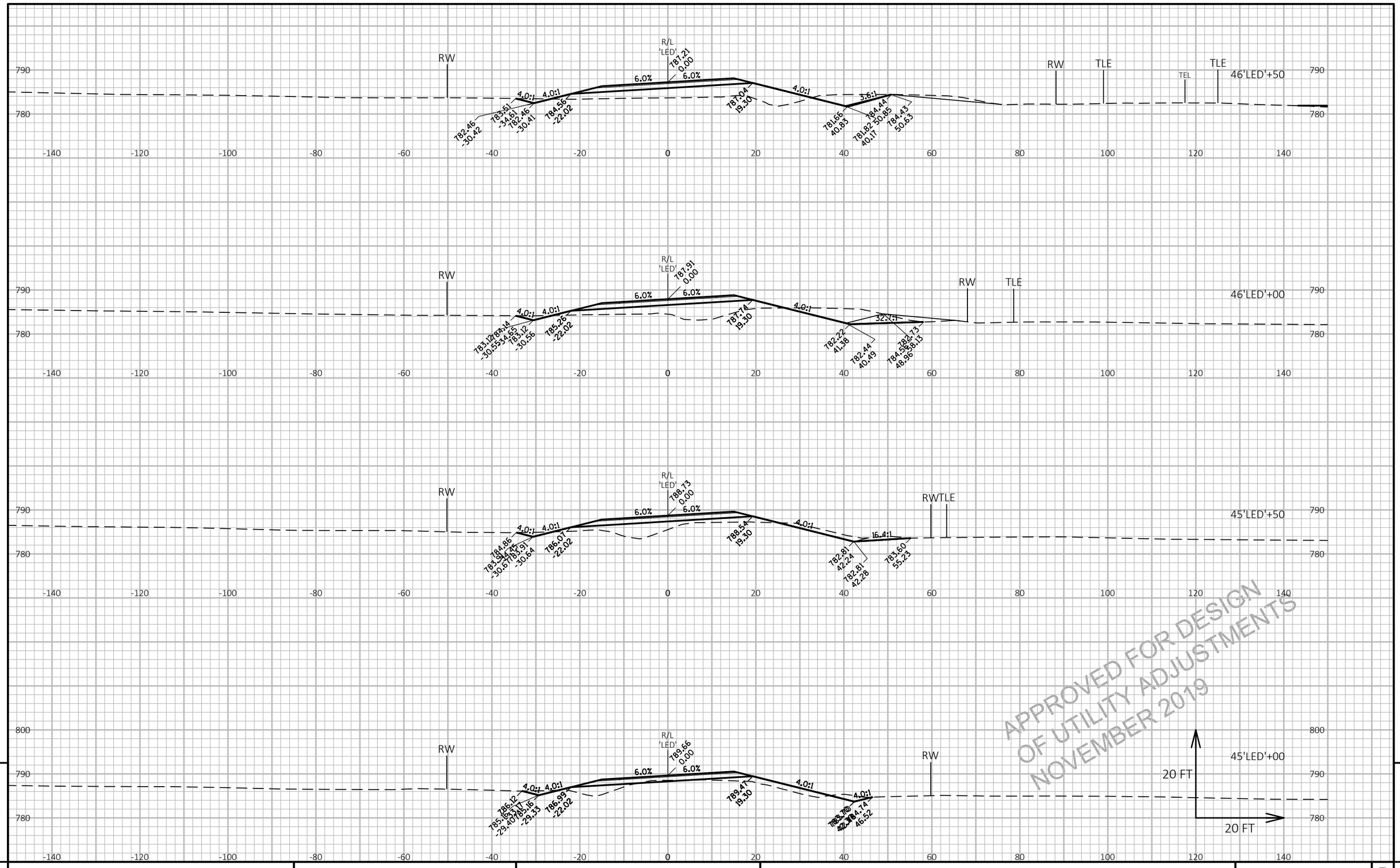
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: LEDGE HILL ROAD	SHEET

PRE_433 E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090701_XS_(LED).DWG
LAYOUT NAME - 090702_xs(LED)

PLOT DATE : 11/6/2019 9:22 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



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OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: LEDGE HILL ROAD	SHEET PRE_434 E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090701_XS_(LED).DWG
LAYOUT NAME - 090703_xs(LED)

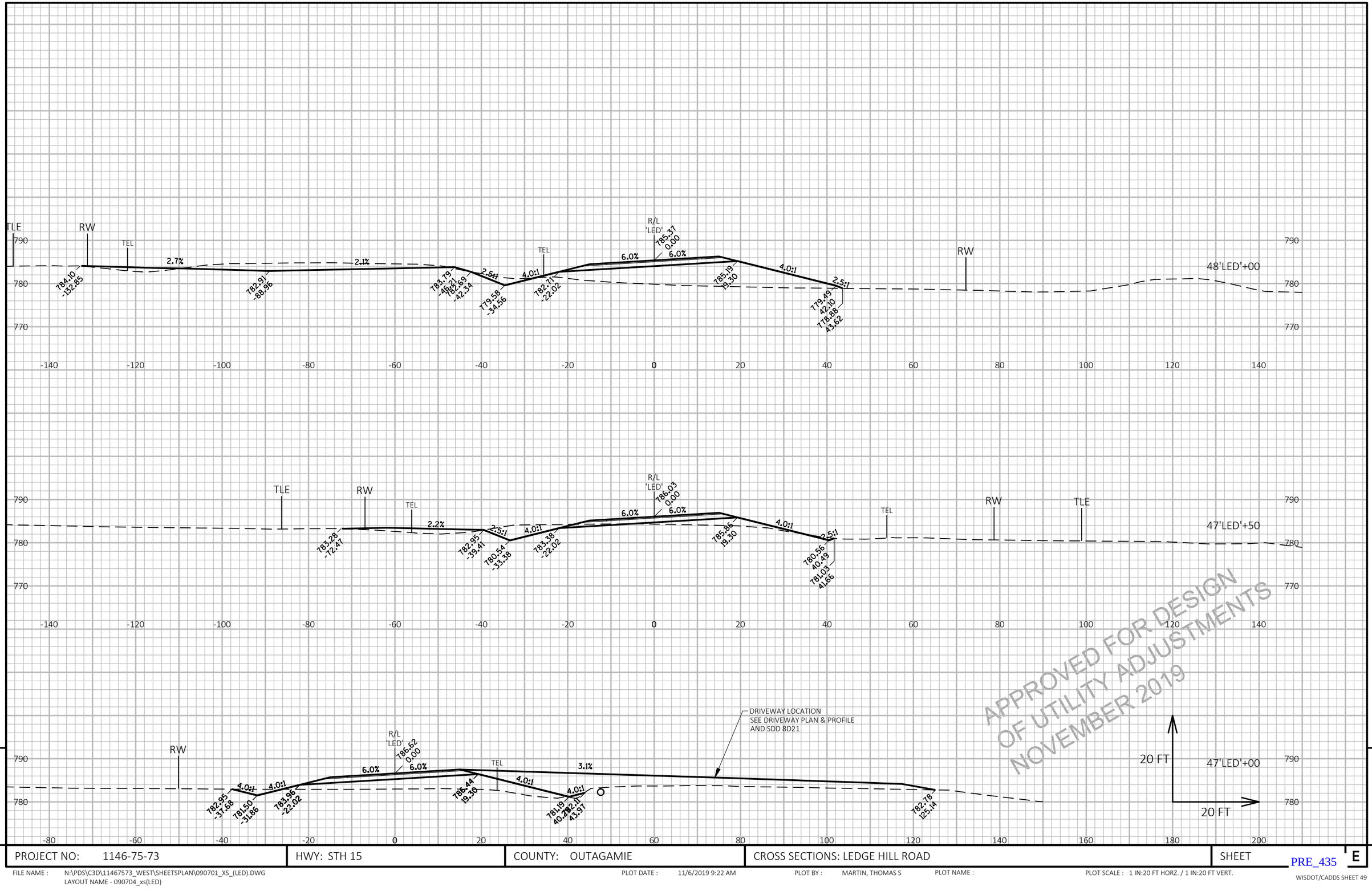
PLOT DATE : 11/6/2019 9:22 AM

PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: LEDGE HILL ROAD	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090701_XS_(LED).DWG
LAYOUT NAME - 090704_xs(LED)

PLOT DATE : 11/6/2019 9:22 AM

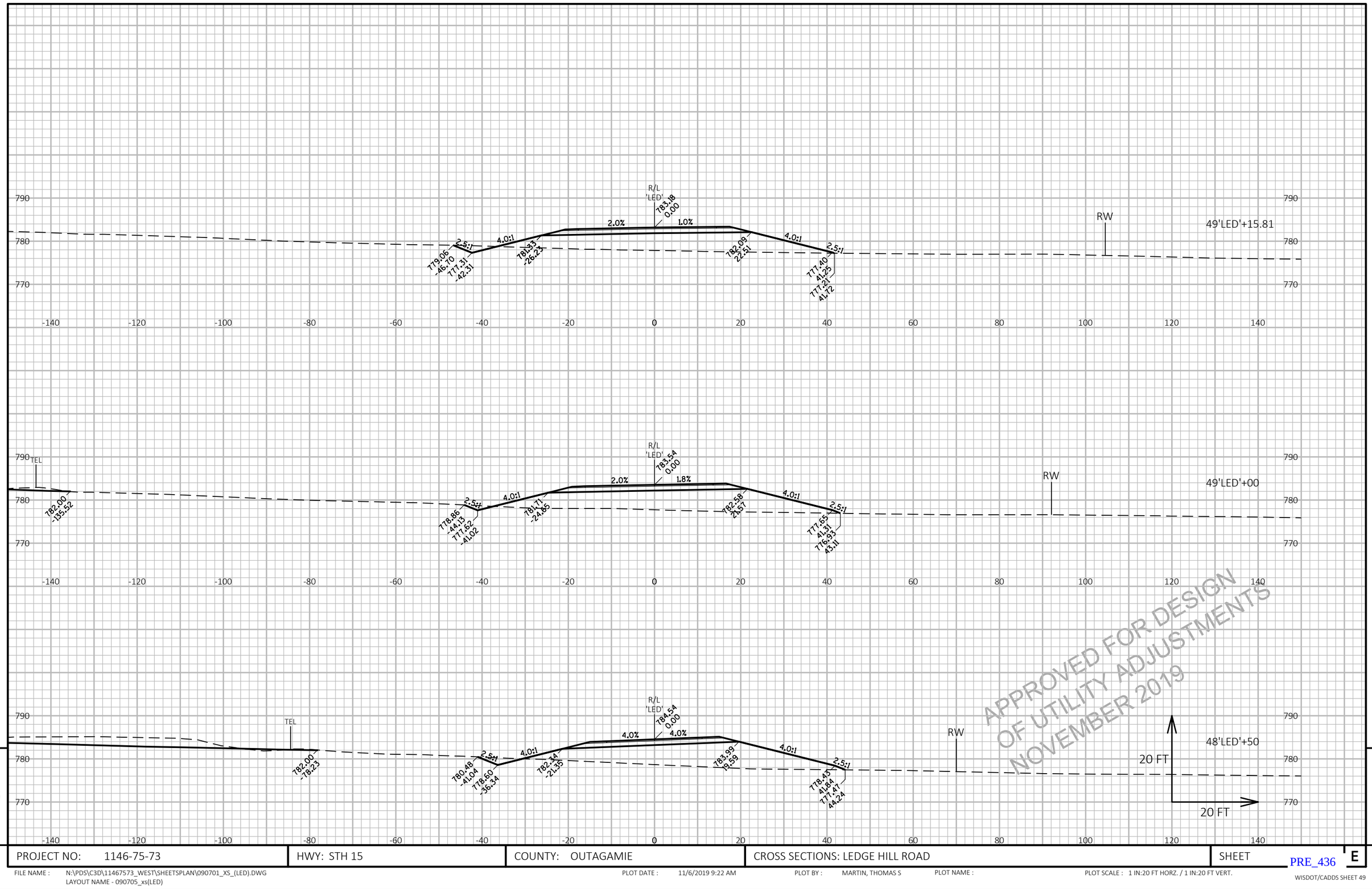
PLOT BY : MARTIN, THOMAS S

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PRE_435

WISDOT/CADDS SHEET 49



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OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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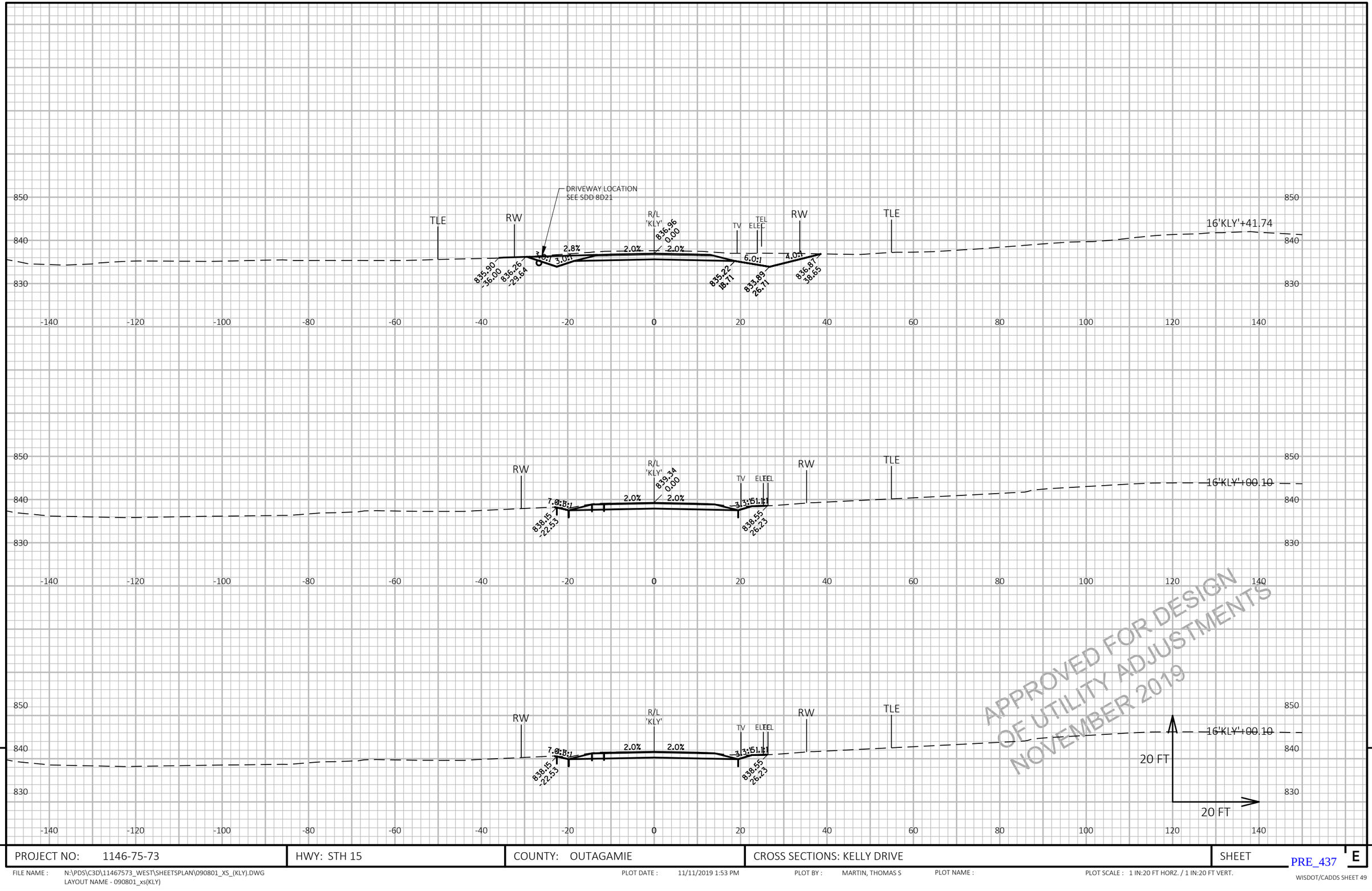
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: LEDGE HILL ROAD	SHEET

PRE_436 E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090701_XS_(LED).DWG
LAYOUT NAME - 090705_xs(LED)

PLOT DATE : 11/6/2019 9:22 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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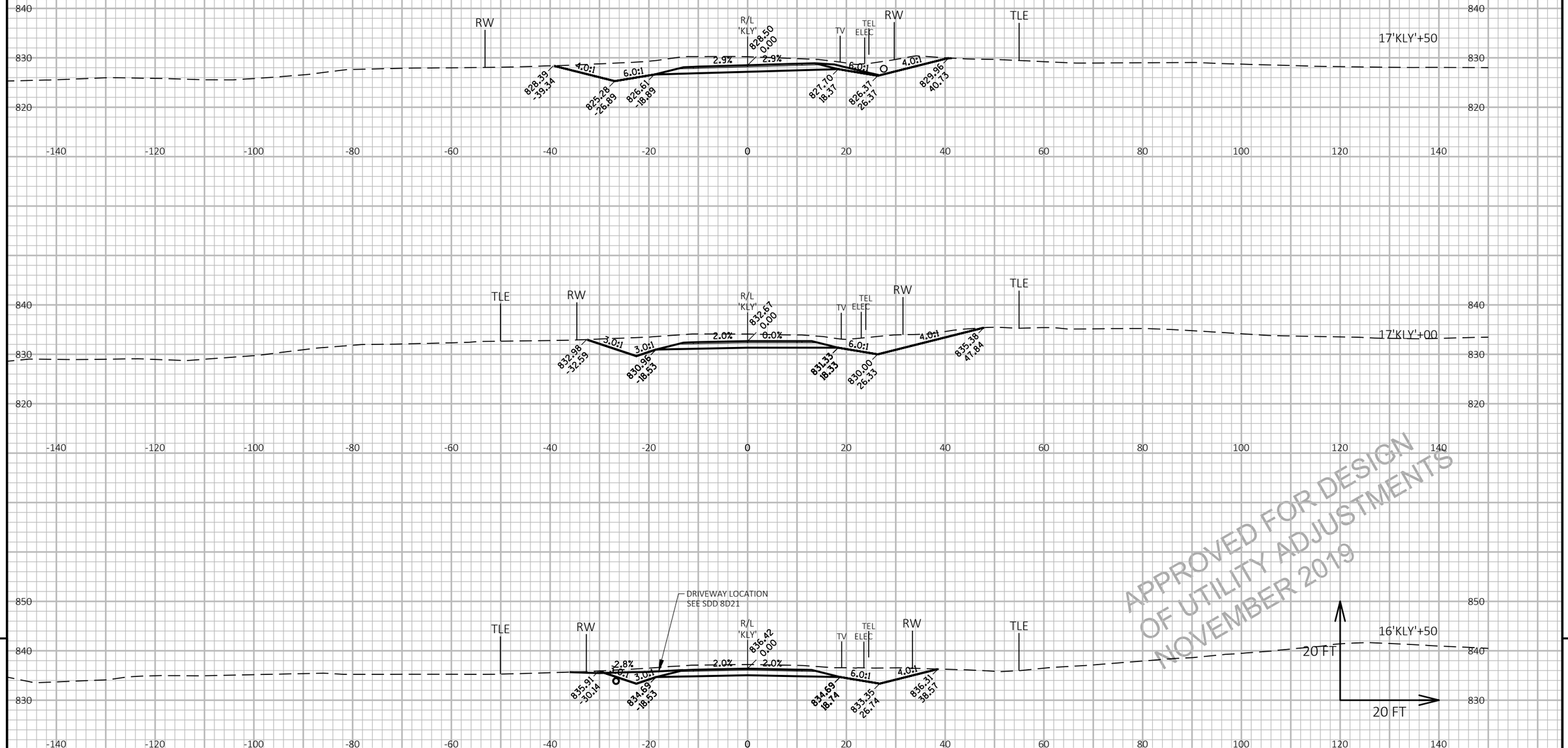
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: KELLY DRIVE	SHEET E

PRE_437

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090801_XS_(KLY).DWG
LAYOUT NAME - 090801_xs(KLY)

PLOT DATE : 11/11/2019 1:53 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



APPROVED FOR DESIGN
OF UTILITY ADJUSTMENTS
NOVEMBER 2019

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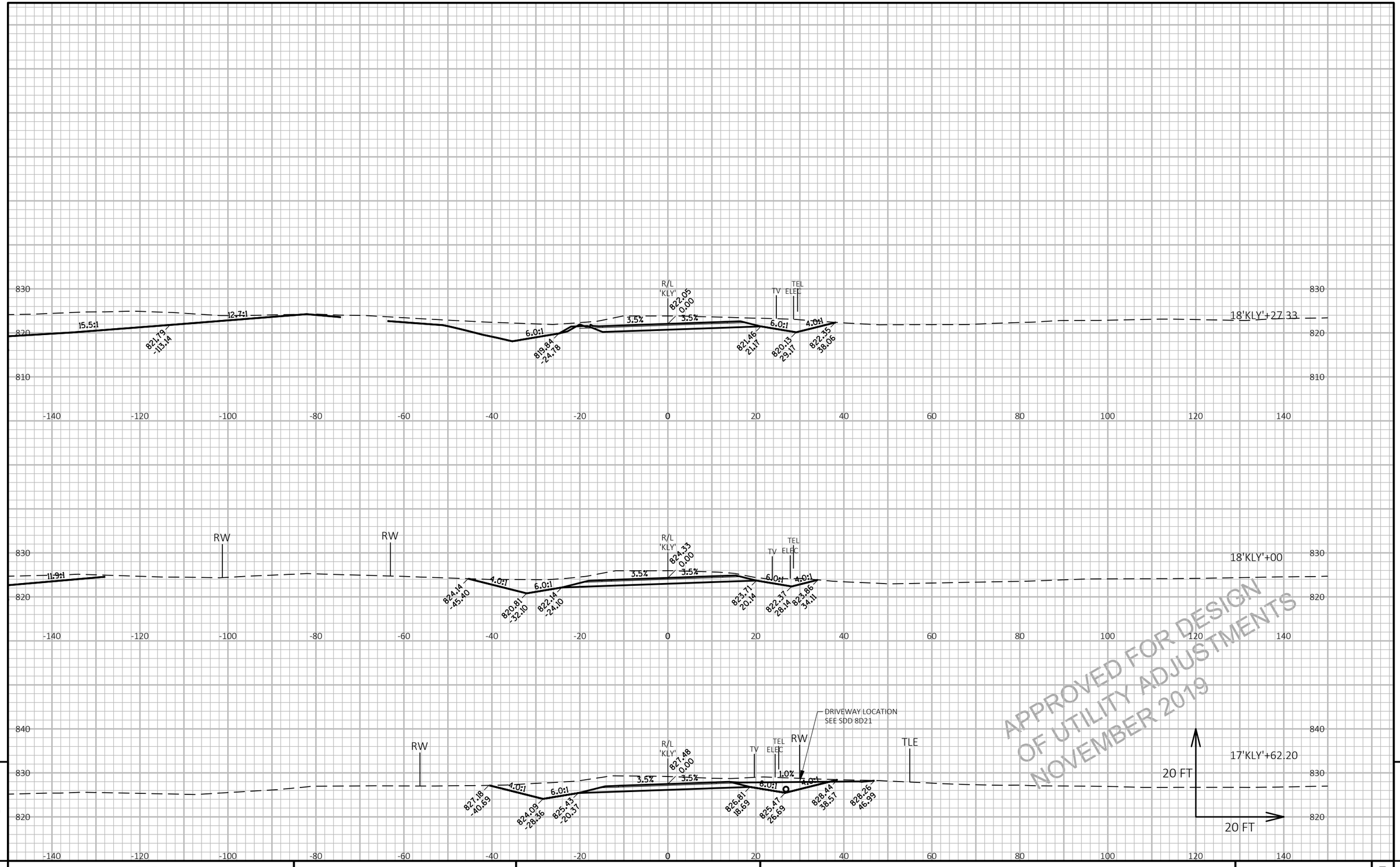
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: KELLY DRIVE	SHEET E

PRE_438

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090801_XS_(KLY).DWG
LAYOUT NAME - 090802_xs(KLY)

PLOT DATE : 11/11/2019 1:53 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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NOVEMBER 2019

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PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS: KELLY DRIVE	SHEET

PRE_439 E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\090801_XS_(KLY).DWG
LAYOUT NAME - 090803_xs(KLY)

PLOT DATE : 11/11/2019 1:53 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

WISCONSIN DEPARTMENT OF TRANSPORTATION

EPlans Preliminary Sheet Numbering Tool

This sheet: ftp://ftp.dot.state.wi.us/transp/roads/eplans/prelim_sheet_numbers.pdf

Notes

- Acrobat 5 or higher is required to use this tool.
- The Bureau of Highway Construction places sheet numbers in the final plan.
- This sheet is for placing preliminary sheet numbers with a “PRE_" prefix.
- If a plan contains multiple projects, number each plan individually.
- Leave this sheet in the plan.

TO ADD PRELIMINARY SHEET NUMBERS

1. Insert this sheet at the end of the plan

a. With the plan open in Acrobat, select Document > Insert Pages.
b. In the Select File to Insert dialog box, select this file (prelim_sheet_numbers.pdf)
c. In the Insert dialog box, choose After for Location and Last page for Page.
d. Click OK.

2. Click the Place Preliminary Sheet Numbers button

a. Go to the last sheet of the plan.
b. Click the Place Preliminary Sheet Numbers button once.
(The preliminary sheet number appears in the bottom right corner of the sheets.
The number should match te page number in the Acrobat Status bar).

3. Re-Save the PDF

a. Select File > Save As and save the PDF.

Place Preliminary Sheet Numbers

TO REMOVE PRELIMINARY SHEET NUMBERS

Remove